

BID FORM
for
JOLIET JUNIOR COLLEGE, MFP PH2
Joliet, IL 60431
GILBANE JOB NO. 4764

BID RELEASE 19R, BID PACKAGE 15L (Re-bid)

**Plumbing & Site Utilities Work
Natural Sciences Addition & Renovation**

October 29, 2010

MANDATORY PRE-BID: November 03, 2010
TIME: 9:00 AM CST
LOCATION: Joliet Junior College
Building "K" – Theatre K1000
Last date for Bidder's questions is 11/04/10 by 10:00 AM

SUBMIT 1 ORIGINAL
AND 2 COPIES

PROPOSAL DUE DATE: November 10, 2010
TIME: 9:00 AM CST
BID OPENING LOCATION: Joliet Junior College
Building "J" - Room J0006-J0007

Joliet Junior College, Illinois Community College District No. 525
Office of Business and Auxiliary Services
1215 Houbolt Road
Room H1018
Joliet, Illinois 60431-8938
Attn: Judy Mitchell, Director of Business and Auxiliary Services

FORWARD
PROPOSAL TO

FIRM NAME:

_____, the undersigned.

- A. Proposes to furnish all labor, materials, equipment, and services as required to satisfactorily complete all **Plumbing & Site Utilities Work (ReBid)** herein described as **Bid Package No. 15L** as required for the construction and completion of the Natural Sciences Addition & Renovation Project in accordance with the Drawings and Specifications as prepared by Legat Architects and their Consultants, the Contract Documents, Project Manual Volumes 1, 2, 3 dated **October 29, 2010**, this Bid Form, and all documents incorporated by reference. It is expressly understood by the Bidder that each of the enumerated documents as set forth in this paragraph are incorporated by reference as part of the Bid Proposal.
- B. All work required by the foregoing documents will be accomplished for the Lump Sum Bid Price of

_____) (\$ _____)
(Show amount in both words and figures, in case of discrepancy **the lower amount** will govern)

The Lump Sum Bid Price above EXCLUDES all applicable sales, consumer, use and other similar taxes for the project on the equipment and materials to be incorporated into the work (project is tax-exempt); INCLUDES all insurance premiums required to meet Schedule "A" - Insurance Specifications; and INCLUDES all premiums for Performance and Labor & Material Payment Bonds in the sum of one hundred ten percent of the Contract price.

- C. Bidder agrees that upon award of the contract by Joliet Junior College if written notice of the acceptance of this bid is mailed or delivered to the undersigned within sixty (60) days after the Proposal Due Date, or any time thereafter before it is withdrawn, the undersigned shall meet with representatives of Joliet Junior College and Gilbane Building Company at Joliet Junior College's office or at a mutually agreed upon location to execute the contract which is included as an Exhibit within this Project Manual.

The Trade Contractor's contract will be held by and made with Joliet Junior College; Gilbane Building Company will be acting on the behalf of Joliet Junior College as their Construction Manager (agent). A Performance Bond and Labor & Material Payment Bond will be delivered to the Construction Manager at the time of execution of the Contract on the form contained within the Project Manual identifying Joliet Junior College and Gilbane Building Company as dual obligees. Failure to execute said contract within ten (10) days after receipt of written Notice to Proceed may be considered a default under the obligation of the bid bond. Insurance certificates shall be provided before starting on-site activities if such activities occur before the Contract is signed.

By submitting its bid, the Bidder hereby agrees that the Owner may, in its sole discretion, decide which combination of base bid plus alternates, (if any) would provide the Owner with the most efficient expenditure of the Owner's funds with respect to any particular Bidder. Owner's selection and determination of which combinations of base bid plus alternates (if any) would provide the most efficient expenditure of the Owner's funds shall form the basis of awarding the contract. By submitting its bid, Bidder further agrees that the sum total of the base bid plus alternates (if any) as so determined by the Owner separately for each Bidder shall be deemed to be such Bidder's bid for purposes of determining the lowest responsible Bidder for such portion of the work or for such bid package. Such determination by the Owner shall not be subject to challenge by the Bidder.

- D. The above price includes all stipulations and requirements of Supplement Numbers: _____, which have been received and accepted by the undersigned.

E. MILESTONE SCHEDULE DATES

See the Draft Milestone/Sequencing Schedule for reference. Dates and durations given are for reference only and are subject to change. Each awarded Trade Contractor, within 30 calendar days of being notified of their award, shall provide a CPM schedule (utilizing Primavera Project Planner or SureTrack software) to the Construction Manager defining scope of work items, items requiring fabrication, etc.; each with their respective anticipated start dates, end dates and durations. Trade Contractor is to identify any areas of potential conflict which may impact the Draft Milestone/Sequencing Schedule durations and/or milestones and/or prevent the Trade Contractor in meeting the expected start and finish dates identified in the Draft Milestone/Sequencing Schedule. All work is to be completed in accordance with the Draft Milestone/Sequencing Schedule Dates as follows:

Bid Release 19R – Milestone Schedule Dates (Estimated)

	Start	Finish
Bid Proposals Due		11/10/2010
Anticipated Dates for Bid Scope Review	11/11/2010	11/12/2010
Anticipated Date of Contract Award		12/14/2010
Anticipated Contract Issuance (Insurance, Bond, etc.)	12/14/2010	01/04/2011
Anticipated Preconstruction Meeting		11/24/2010
Anticipated Mobilization/Site Prep	12/1/2010	12/10/2010
Submittals/Review/Procurement (varies per trade)	12/1/2010	7/25/2011
Building 3D coordination (BIM)	12/30/2010	3/24/2011
Chilled Water Mains coordination	12/30/2010	1/20/2012
New Addition		
Start Construction, Site Prep/Excavation/Ftgs/Fndtns.	12/1/2010	2/24/11
Structural Steel/Decking Erection – 2 SHIFTS -	2/25/2011	3/29/2011
EPDM Roofing	7/7/2011	7/20/2011
Building Enclosure (Framing/EIFS/Curtainwall/Mtl Pnls)	4/8/2011	7/20/2011
Interior Layout/Walls/HM Frames	4/15/2011	8/11/2011
MEP/FP rough-in (Below slab/In wall/Overhead)	3/30/2011	7/20/2011
Equipment Pads/AHUs/Boilers	4/15/2011	7/26/2011
Interior Equipment/Trim/Finish	7/27/2011	10/15/2011
Commissioning (Addition)	11/7/2011	3/15/2012
Substantial Completion - Addition		12/7/2011
Remodeling Existing		
Relocate Existing /Disconnect MEP/FP	1/9/2012	
Abatement	1/30/2012	2/17/2012
Demolition	2/6/2012	3/6/2012
Interior Layout/Walls/HM Frames	2/14/2012	3/30/2012
MEP/FP rough-in (Below slab/In wall/Overhead)	2/27/2012	5/8/2012
Interior Equipment/Trim/Finish	3/1/2012	6/14/2012
Commissioning (Remodeling)	7/26/2012	7/24/2012
Substantial Completion - Remodeling		8/13/2012
Remodeling Existing E2006/E2007 (existing room nos. noted on demolition drawing series)		
Relocate Existing /Disconnect MEP/FP	9/12/2012	
Abatement	9/17/2012	9/18/2012
Demolition	9/19/2012	9/20/2012
MEP/FP rough-in (In wall/Overhead)	9/21/2012	9/26/2012
Interior Equipment/Trim/Finish	9/27/2012	10/14/2012
Commissioning (E2006/E2007)	10/10/2012	10/11/2012
Substantial Completion - E2006/E2007		10/10/2012

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F. TRADE-SUBCONTRACTORS

The following trade subcontractors are proposed for the item of work listed. Trade Subcontractors are subject to review per the General Conditions. List only firms that will supply labor at the site.

ITEM OF WORK	TRADE SUBCONTRACTORS

G. NOT USED

H. UNIT PRICES

Unit Prices shall be used, where applicable, to make adjustments to the cost of the Work due to changes. ALL Unit Prices submitted shall be complete in-place prices and include all costs for overhead, profit, bond costs, labor, materials, equipment, engineering, shop drawings and any other incidentals related to the completion of the Work, and shall remain firm for the period of the contract. Deductive unit prices will be calculated at no less than 85% of the additive unit price.

Unit Prices (furnished and installed unless noted otherwise) <u>Description</u>	<u>Cost</u>
Bedrock removal and disposal per cubic yard	\$ / cy
Unsuitable soils removal and offsite disposal per cubic yard	\$ / cy
¾" Domestic Water Piping, per lf based on 50 lf	\$ /lf
1" Domestic Water Piping, per lf based on 50 lf	\$ /lf
1-1/4" Domestic Water Piping, per lf based on 50 lf	\$ /lf
1-1/2" Domestic Water Piping, per lf based on 50 lf	\$ /lf
2" Domestic Water Piping, per lf based on 50 lf	\$ /lf
2-1/2" Domestic Water Piping, per lf based on 50 lf	\$ /lf
3" Domestic Water Piping, per lf based on 50 lf	\$ /lf
4" Domestic Water Piping, per lf based on 50 lf	\$ /lf
6" Domestic Water Piping, per lf based on 50 lf	\$ /lf
2" Acid Waste Piping, per lf based on 50 lf	\$ /lf

3" Acid Waste Piping, per lf based on 50 lf	\$	/lf
4" Acid Waste Piping, per lf based on 50 lf	\$	/lf
6" Acid Waste Piping, per lf based on 50 lf	\$	/lf
1-1/2" Acid Vent Piping, per lf based on 50 lf	\$	/lf
2" Acid Vent Piping, per lf based on 50 lf	\$	/lf
2-1/2" Acid Vent Piping, per lf based on 50 lf	\$	/lf
3" Acid Vent Piping, per lf based on 50 lf	\$	/lf
4" Acid Vent Piping, per lf based on 50 lf	\$	/lf
4" Storm Piping, per lf based on 50 lf	\$	/lf
6" Storm Piping, per lf based on 50 lf	\$	/lf
8" Storm Piping, per lf based on 50 lf	\$	/lf
10" Storm Piping, per lf based on 50 lf	\$	/lf
12" Storm Piping, per lf based on 50 lf -Deleted	\$	/lf
4" Sanitary Piping, per lf based on 50 lf	\$	/lf
6" Sanitary Piping, per lf based on 50 lf	\$	/lf
1-1/2" Sanitary Vent Piping, per lf based on 50 lf	\$	/lf
2" Sanitary Vent Piping, per lf based on 50 lf	\$	/lf
2-1/2" Sanitary Vent Piping, per lf based on 50 lf	\$	/lf
3/4" Rainwater System Piping, per lf based on 50 lf -Deleted	\$	/lf
1" Rainwater System Piping, per lf based on 50 lf -Deleted	\$	/lf
1-1/2" Rainwater System Piping, per lf based on 50 lf -Deleted	\$	/lf
2" Rainwater System Piping, per lf based on 50 lf -Deleted	\$	/lf
2-1/2" Rainwater System Piping, per lf based on 50 lf -Deleted	\$	/lf
1/2" Pipe Insulation, per lf based on 50 lf	\$	/lf
1" Pipe Insulation, per lf based on 50 lf	\$	/lf
1-1/2" Pipe Insulation, per lf based on 50 lf	\$	/lf
2" Pipe Insulation, per lf based on 50 lf	\$	/lf
Hose Bib – HB-1, ea	\$	ea
Hose Bib – HB-2, ea	\$	ea
Hose Bib – HB-3, ea	\$	ea
Deep Mains - Storm, per lf based on 50 lf	\$	/lf
Deep Mains - Sanitary, per lf based on 50 lf	\$	/lf
Deep Mains - Water, per lf based on 50 lf	\$	/lf

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Deep Mains – Acid Waste, per lf based on 50 lf	\$	/lf
Distribution piping, per lf based on 50 lf	\$	/lf
Mixing Valve - MV-1, ea	\$	ea
Mixing Valve - MV-2, ea	\$	ea
Mixing Valve - MV-3, ea	\$	ea
Roof Drain - RD-1, ea	\$	ea
Roof Drain - RD-2, ea	\$	ea
Floor Drain - FD-1, ea	\$	ea
Floor Drain - FD-2, ea	\$	ea
Floor Drain - FD-3, ea	\$	ea
Floor Sink – FS-1, ea	\$	ea
Floor Sink – FS-2, ea	\$	ea
Garbage Disposal, ea	\$	ea
Back Flow Preventer – BFP-1, ea	\$	ea
Back Flow Preventer – BFP-2, ea	\$	ea
Back Flow Preventer – BFP-3, ea	\$	ea
Drinking Fountain, ea	\$	ea
Lavatory, ea	\$	ea
Mop Basin, ea	\$	ea
Urinal, ea	\$	ea
Water Closet, ea	\$	ea

I. ALTERNATE PRICES

An Alternate Price shall include all costs associated with the changes, omissions, additions or other adjustments to the Work of this Bid Package (Contract), which are described in the Alternate, or are reasonably inferable there from. Claims for extras resulting from changes caused by the acceptance or rejection of any Alternate will not be allowed. Alternate prices shall also include all costs of overhead, profit and bond costs associated with the work of the Alternate, whether additive or deductive.

The Drawings, Specifications and other Contract Documents shall be considered appropriately modified by either the acceptance or rejection of the various Alternates. The Owner and the Construction Manager expressly reserve the right to accept or reject any, or all, Alternate Prices, and in any sequence.

If any combination of alternates is accepted, the classrooms identified must be completed within the time periods provided.

Alternates:

N/A

J. COST ALLOWANCES

The Bidder includes the following Cost Allowances in the total Lump Sum Amount of the Base Bid for this Bid Package. See General Conditions for definition of Allowances.

The Trade Contractor must include the cost of the allowances in the Base Bid. The Base Bid cost of this package should include the appropriate mark-up on the allowances. All work completed under the allowance will be paid at cost since the mark-up is incorporated in the base bid. Trade Contractors are not entitled to any unspent balance.

Cost Allowances:

1	<p>General Cleanup Allowance: Notwithstanding the Trade Contractor's obligation for his own cleanup under the general conditions, include in the base bid a sum of \$75.00 for every 80 man-hours (or fraction thereof) actually expended on-site regardless of trade or labor classification. This cost will be used for cleanup of unidentifiable trash and debris as directed by the Construction Manager, and will be deducted from the Contract Sum periodically to pay for cleanup services. Trade Contractors are not entitled to any unspent balance. Costs for this scope of work item are over and above costs for cleanup required by the general conditions. This requirement does not eliminate this Trade Contractors responsibility for the daily clean up of his/her work efforts. The formula for this fee is as follows: $\frac{\text{Total Man hours}}{80} \times \\$75.00 = \\$ \text{CLEANUP FEE}$ Bidder to fill in: _____ man-hours</p>	<p>\$ _____ (Bidder to Fill In)</p>
2	<p>Miscellaneous Work Allowance: Miscellaneous work to be completed at the direction of the Construction Manager</p>	<p>\$25,000</p>
3	<p>Miscellaneous Coring/Cutting, Patching Allowance: For any cutting/ coring and patching work in addition to the scope of work, to be completed at the direction of the Construction Manager</p>	<p>\$20,000</p>
4	<p>Miscellaneous Unsuitable Soil/ Rock Excavation Allowance</p>	<p>\$10,000</p>

K. COST AND QUANTITY BREAKDOWN

In order to properly evaluate the Proposal, provide the following information. The Scope of Work to be awarded will not be influenced by the cost and quantity information requested here. Do NOT include the cost of any alternates in base bid or in the following information. Cost and quantity breakdown shall include all related work to the subject category.

1. Cost Breakdown

Plumbing Pumps	\$
Hot Water Heaters	\$
Mixing Valves	\$
Plumbing Valves	\$
Domestic Water Piping	\$
Sanitary Piping	\$
Storm Piping	\$
Acid Waste Piping	\$
Insulation	\$
Roof Drains	\$
Floor Drains	\$
Cleanouts	\$
Water Closets /Urinals/Lavatory	\$
Floor Sinks/ Mop Basins	\$
Other Plumbing Fixtures	\$
Acid Neutralization Tank	\$
Rain Water Collection System (including all piping) Deleted	\$
Plumbing Demolition	\$
Installation of work under existing post-tensioned slab on grade (MOD A) including excavation/removal/backfilling/compaction of sub-base	\$
Commissioning	\$
Cleanup of Own Debris	\$
General Conditions	\$
\$75/ 80MH of Clean-Up Allowance	\$
Allowances described above	\$ 55,000
Total bond cost	\$
Mobilization	\$
Shop Drawings & Submittals	\$
BIM Coordination	\$
Miscellaneous not included above (define below)	\$
Total Bid (Total of all items above including the Allowances)	\$

Estimated total of On-Site Man-hours (required)	(Man-hours)
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1. Quantity Breakdown

Item	Quantity	Material Cost	Installation Cost	Total Cost
Drinking Fountain	ea	\$	\$	\$
Floor Sinks	ea	\$	\$	\$
Floor Drains	ea	\$	\$	\$
Roof Drains	ea	\$	\$	\$
Hose Bibs	ea	\$	\$	\$
Cleanouts	ea	\$	\$	\$
Mop Basins	ea	\$	\$	\$
Mixing Valves	ea	\$	\$	\$
Lavatory	ea	\$	\$	\$
Urinals	ea	\$	\$	\$
Water Closets	ea	\$	\$	\$
Back Flow Preventers	ea	\$	\$	\$
Other Plumbing Fixtures	ea	\$	\$	\$
Valves	ea	\$	\$	\$
Plumbing Pumps	ea	\$	\$	\$
Hot Water Heater	ea	\$	\$	\$
Domestic Water Pipe	lf	\$	\$	\$
Storm Drain Pipe	lf	\$	\$	\$
Sanitary Sewer Pipe	lf	\$	\$	\$
Acid Waste Pipe	lf	\$	\$	\$
Insulation	lf	\$	\$	\$

L. SCOPE OF WORK

1. Description of Work Included:

Except for those items (if any) specifically noted in the section below entitled "Work Excluded From This Bid Package", the work of this Bid Package shall INCLUDE, but is not necessarily limited to, all of the following:

- a. All items of work required by, and/or specified in, those sections of the Specifications which are listed herein under Section M SPECIFICATIONS – Specific Sections.

- b. All items of work related to the "Scope of Work", which are indicated in the Specifications which are listed herein under Section M SPECIFICATIONS – Related Sections.
- c. All items of work related to the "Scope of Work", which are shown on the Drawings listed herein under Section N CONTRACT DRAWINGS.
- d. The following "Specific Items to be Included" are related to those required by the above referenced documents and are to be provided under, and hereby form a part of, the Scope of Work of this Bid Package (Contract). Should any conflict exist between this written Scope of Work and any scope items implied by the above referenced documents, this Scope of Work shall govern.

SPECIFIC ITEMS TO BE INCLUDED

Perform complete "Plumbing & Site Utilities Work" and related work as required by and in accordance with the Conditions of Contract, Drawings, Specifications, and elaborations below. The Work shall include all labor, materials, equipment, and related items necessary to complete all of the work defined in the following specification sections, except for those noted exclusions or clarifications listed below.

In general, the following clarifies the scope of work to be included. It is intended for clarification and convenience only and is not intended to limit any portion of the scope of this bid package.

1. Perform complete all "Plumbing Work", including but not limited to domestic water services, sanitary and vent piping, storm piping, acid waste piping, pumps, meters, backflow preventers, mock systems & equipment. Provide all equipment, fixtures, floor drains, cleanouts, roof drains, piping, insulation, specialties and accessories required for a complete installation, coordinate equipment with controls requirements. This Trade Contractor shall provide any offsets or accessories not shown on the drawings or specifications but required for a proper and complete installation of the plumbing work.
2. Furnish and install complete all underground piping systems as shown, specified or required both within the building footprint and site utilities, including but not limited to tie ins, connections to domestic water supply/ sanitary & storm , testing, flushing, excavation, granular backfill, compaction and spoil removal. Anticipate the stone subbase for the slab on grade to be in place prior to starting underground MEP rough-in. The stubs for sanitary, water and storm piping have been provided as a part of previous bid release, this contractor will be responsible for connecting the service from this point onwards. After installing all underground piping systems, the slab on grade should be compacted and returned to the same condition as when MEP work started for the Concrete Contactor to pour the slab on grade.
3. Provide complete demolition and removal of all plumbing fixtures, piping, etc, as indicated on the bid documents. This Trade Contractor will be responsible for all disconnects and storage for any equipment with plumbing connections called out for reuse, including but not limited to, dishwasher, autoclaves etc. Coordinate the location of storage with the Construction manager.
4. This Trade Contractor is responsible for connecting to the existing piping and performing flushing/disinfecting and testing of entire new domestic water system to the existing valve or point of service connection. All testing shall be done and coordinated with the Construction Manager.
5. Provide all cutting, coring and patching of the slab as necessary to complete the scope of work in this bid package. All patching work should be done properly to ensure a smooth and leveled finish.
6. Water service pipe for fire protection shall be this Trade Contractors responsibility to provide

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including but not limited to connecting to the domestic water supply and running the main into building's water service room E1014. This Trade Contractor shall run the main to the location shown and stop the piping at the backflow preventer in the water service room at a location coordinated with the Fire Protection Trade Contractor. The fire protection backflow preventer shown on E1014 is to be furnished and installed by the Fire Protection Work Trade Contractor.

7. Plumbing Trade Contractor will provide temporary sanitary, acid waste, sanitary and storm tie-ins as necessary to facilitate new installation, cut over and tie-in of existing services.
8. Include disconnect, demolition and removal of the existing acid neutralization tank.
9. Furnish and install acid neutralization tank and all necessary tie-ins and connections.
- ~~10. ***This Trade Contractor is responsible for furnishing and installing rainwater water collection system complete with connections to interior service pipe including but not limited to, excavation, granular backfill, compaction, spoil removal, underground storage tank, all piping, connections, pumps, treatment skid, access panels, tie-ins to storm, etc. Furnish and coordinate the location of the access panel with the Concrete Contractor before the slab is poured. DELETED***~~
11. Coordinate the location and elevation of roof drains with the Roofing Work Trade Contractor ensuring that drains will be positioned at low points in the roof profile as well as with the insulation thickness at these points (or as otherwise designed). Coordinate the location and elevation of floor drains and cleanouts with the Concrete Contractor. Protect all floor drains, roof drains, cleanouts, drain lines, trench drains, etc., from debris entering into system. Provide protection and maintain the surface finish from debris, concrete, grout, etc. from getting into the system for duration of the project.
12. Provide all roof drains including but not limited to all dome strainers and clamping rings as necessary. Plumbing Work Trade Contractor must connect the roof drains to drain system as roof areas are completed and made interchangeable plus provide temporary means to carry water out of building until final plumbing tie-in is complete. This trade contractor shall also provide all roof drain outlets and downspouts as shown and specified.
13. Furnish and install all yard cleanouts as shown and specified.
14. Under slab coordination of HVAC Ventilation, HVAC Piping, Plumbing and Electrical will be critical to the schedule. The Plumbing Work Trade Contractor will take the lead in the coordination process and shall be responsible for producing the final coordinated composite drawings. This Plumbing Work Trade Contractor shall produce their work, shop drawings, and coordination in similar fashion as described in the previous item to be included.
15. This Trade Contractor shall provide any pumping or dewatering as required for installation of own work.
16. It is this Trade Contractors responsibility to furnish and install all backflow preventers shown on the plumbing drawings.
17. Install floor drains, clean outs to proper elevation for flooring materials prior to concrete pours, protect during and after the concrete pour. Protect finish of all embedded items during construction. Adjust to height and level to meet finish flooring, coordinating with the Concrete Trade Contractor. Clean all floor drains and cleanouts to remove tape, tape residue, debris and provide a bright clean finished product.
18. Stub and cap all piping for any future fixture or equipment as indicated on the bid documents.
19. All services that need to be shut down for cutting, capping and/ or removal shall be coordinated at a minimum of 48 hours in advance with the Construction Manager.

- 20. The Plumbing Work Trade Contractor shall be required to do a thorough review of the Lab Casework and Equipment Drawings to clearly identify all required plumbing scope items shown on these plans. The plumbing work trade contractor shall provide all required plumbing work, including but not limited to piping, final connections/terminations and testing. All service fixtures, lab sinks, emergency eyewash/ shower stations, fumehoods, autoclaves, dishwashers, will be furnished by others for installation by this Plumbing Trade Contractor. Prior to any work being installed, this contractor shall coordinate all piping and rough-in requirements with the Lab Casework & Equipment Work Trade Contractor and the Construction Manager for owner furnished equipment.**
21. Provide plumbing service and connections to all lab casework and equipment including but not limited to fumehoods, bench units, autoclave, glasswasher, etc whether or not shown on the Plumbing Drawings.
- 22. The existing concrete slab on grade (Mod A) is post-tensioned with reinforcement every 18" o.c. both ways. An X-Ray/GPR scan and layout of the post-tensioned cables will be provided by the BP06I General Trades Contractor, and the cutting in the post tensioned concrete slab on grade for all the MEP work will be provided by BP 02I. This Trade Contractor (BP 15L) will be responsible for including in the base bid all excavation, removal, disposal, backfilling and compaction of sub-base thereof, required for installation of their work. Use extreme caution while working around exposed post-tensioned cables to avoid any damage. Coordinate penetration locations with BP 02I and BP 06I Trade Contractors. Written approval must be taken from the Construction Manager prior to any coring, drilling or floor cutting work.**
23. Rooms E1001, E2006 and E2007 (**existing room numbers, as noted on demolition drawing series**) will be set up as temporary preparation areas for the Science Faculty while the other areas are being renovated. Provide all plumbing work to accommodate an autoclave and a utility sink in room E1001. Cautiously disconnect and relocate autoclave and sink from their existing locations to room E1001. Renovation in rooms E2006 and E2007 will be done after work in all the other areas is complete and turned over to the owner for occupancy. Room E1001 does not call for any renovation and will remain 'as-is'.
24. Provide all coordination and composite drawings/ models as required by the bid documents. This Trade Contractor will be responsible for participating in a 3D, Navisworks based MEP coordination process, detailing and uploading new files at least once a week.
- No compensation will be considered for improperly coordinated or uncoordinated installations; uncoordinated work will be removed and replaced at your expense.
 - Work that is not modeled cannot be installed until the modeled and coordinated systems are all in-place. At that point, "uncoordinated" or "field coordinated" systems can go in place.
- Refer to Manual 1, for complete requirements for the MEP BIM Coordination Plan.
25. Provide all mockups as required in the quality plan and/or specifications. In addition to those mockups specified, provide constructability mock-up of an Anatomy & Physiology Lab – Room # E2012. Materials used for these mockups shall be permanent materials as specified for the project. Work in this mockup room will be out of sequence with the construction of the surrounding area and will be conjunction with mockup activities many trades at the same time. Coordinate this special mockup activity with the Construction Manager and other trade contractors. Upon mockup approval, remove and reinstall mockup materials and equipment as necessary to allow completion of adjacent construction as performed by this Contractor or by other trades.
26. Furnish and install the plumbing fixtures or equipment indicated on the bid documents, including but

not limited to; hose bibs, lavatories, sensor activated mixing faucets (wiring by others), mop basins, urinals, all mixing valves, water heaters, water closets, wash fountain, drinking fountain, cleanouts, etc.

27. This Trade Contractor shall provide in the base bid cost to provide and maintain temporary water from the nearest source for utilization by other trades until permanent water service to new construction is completed.
28. Provide all control panels for plumbing equipment included in this Scope of Work. Control panels for plumbing equipment shall have the capability to interface with the Direct Digital Control System as indicated in the design documents.
29. All motors for equipment furnished under this bid package shall be as per specifications. Furnish and turnover to electrical contractor for installation any motor controllers, VFD's, starters, and disconnect switches not provided under Division 26 but required for any equipment installed as part of this bid package. This Trade Contractor shall furnish and install all control and power conduit and wiring as necessary when equipment installation is required in multiple piece's, or when control panels are not installed and pre-wired on equipment and need field installation remote of the equipment. Furnish and install any other interconnecting control conduit and wire required for a complete installation for any equipment installed as part of this bid package.
30. Furnish and install all vibration control material/equipment required for equipment installed as part of this bid package. Provide all related restraints and supports.
31. Furnish and install all thermometers, gauges, heat tracing and flow elements associated with Plumbing piping and equipment installed as part of this bid package.
32. Furnish and install all flushing, chlorination, and testing of plumbing systems including but not limited to waste, storm, water and vent piping per the specifications. Coordinate the filling, testing and flushing of these systems with the Construction Manager. Provide written reports as specified in order to document all testing and provide copies to the Construction Manager.
33. The plumbing contractor is responsible to ensure that all valves, traps, piping, fittings, etc, do not interfere with the installation and operation of the casework and lab equipment.
34. Furnish and install all factory start up and testing as specified in the technical specifications. All test data shall be submitted to the Construction Manager in writing.
35. This Trade Contractor will be responsible for providing layout, installation and coordination of all concrete housekeeping pads required for their scope of work, whether or not shown on the drawings.
36. Furnish and install all piping and equipment identification as required in the design documents for this Scope of Work. Form of identification shall be permanent and indelible. Furnish and install all valve tag schedules.
37. Furnish and install all sleeves required for this Scope of Work. Coordinate the size and location of floor or wall penetrations with the Concrete Trade Contractor or Masonry Work Trade Contractor.
38. Provide all sealants and caulking required as an integral component of the systems. Provide joint sealants contiguous to the work of the bid package as well as at the transition between the work of this bid package and the adjacent work of other Trade Contractors. This applies to both interior and exterior. All pipe penetrations shall be caulked/sealed, regardless if escutcheon plate is provided. Furnish and install all caulking/sealants at plumbing fixtures. All plumbing fixtures shall be caulked/sealed to the adjacent wall or floor by this Trade Contractor.
39. Provide firestopping as required at all penetrations through rated walls, floors and ceilings in

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accordance with the specifications. A single firestopping material supplier will be selected from the specifications for the entire project, use the material directed by the Construction Manager.

40. Provide all means of support and attachments to the structure for the plumbing work, including but not limited to: any trapeze hangers, strut clamp hangers, or clevis hangers to clear ductwork or other interference. Provide all miscellaneous steel supports which are not shown on the project drawings, but which are required to complete the work of this bid package, include primer and touch-up. This Trade Contractor shall furnish and install all blocking (wood or other), backing, supports and attachments for all your devices, panels, and fixtures back to the structure.
41. Provide all shoring, bracing, staging and hoisting, and/or rigging required to complete your work per the schedule.
42. Participate in the Commissioning Process as required for equipment/systems included in this bid package. Provide additional copies of approved submittals and shop drawings for the use of the Commissioning Authority
43. Because of the congestion and tight coordination needed for above ceiling ductwork, plumbing, piping, fire sprinkler and electrical work, schedule will be critical. The General Requirements of the Contract spell out the process. Drywall partitions tops will need to be installed prior to the above ceiling ductwork, plumbing, piping, fire sprinkler and electrical work in a large portion of the project. Layout on the floor the wall opening penetrations and install sleeves as necessary so the drywall work can proceed prior to the above ceiling ductwork, plumbing, piping, fire sprinkler and electrical. If you have to cut holes in the partitions you are responsible to patch and sound/fire seal your penetrations.
44. This Trade Contractor shall perform and coordinate all start-up, testing, inspections and documentation.
45. Caution should be taken with all operations next to or over areas that are complete and/or immediately adjacent to existing entrances. Consult with the CM before starting operations in this area.
46. As may be related to the work of this bid package, this project intersects with an existing building. It is this Trade Contractor's responsibility to field verifies any and all existing conditions prior to fabrication. Any rework, field adjustments, re-fabrication, dismantling and re-installation will be at this Trade Contractor's own expense.
- 47. For the existing trenches in Mod A, the Plumbing Trade Contractor will be responsible for removing the trench covers and cleaning of the trenches. Bid Package 02I Trade Contractor will be responsible for infilling these trenches.**

GENERAL PROVISIONS

1. The word Trade Contractor and the word Subcontractor are used interchangeably in the documents. Therefore where the words Trade Contractor or Subcontractor are used in the document, it shall mean a Contractor having a contract with the Owner unless it is apparent by the content of the usage that the Subcontractor reference is assumed to be a Subcontractor to a Contractor having a contract with the Owner.
2. This trade contractor shall protect all adjacent areas of work. Remove protection after completion of work of this bid package and repair all damaged areas as necessary and required.
3. This Trade Contractor shall make arrangements with the Construction Manager for any storage provisions prior to mobilization. Outside storage must be coordinated with Gilbane. All areas

disturbed by the action of the Trade Contractor shall be returned to their original condition at no additional expense to the owner.

4. Electronic Data and Documentation Submittal (e-Doc): Trade Contractors shall provide construction documentation in electronic documentation to support the Owner's computerized asset, maintenance, or space management systems for: Equipment tagging, Updated as-built drawings, Submittal of Construction Documents, Asset Data, etc. Updated monthly and all submittals shall be completed prior to substantial completion. Refer to Manual 1 for more information on e-Doc.
5. Should the Plans or Specifications disagree in themselves or with each other, the Trade Contractor shall provide the better quality or greater quantity of work and/or materials unless otherwise directed by written addendum to the contract.
6. Each Trade Contractor is required to provide and maintain covers for any openings/ penetrations resulting from their scope of work until permanent installation is complete.
7. This bid package is phased construction and occupancy and will require additional mobilizations. Addition (Mod B) will be finished first and turned over to the owner for occupancy. The renovation of the existing building (Mod A) will be done in the second phase. Review included milestone dates/schedule and include in the base bid appropriate number of mobilizations as required to complete the work.
8. This Trade Contractor shall review all means of building access and make provisions to ensure that equipment provided by this Bid Package will fit through permanent doorways and/or structure.
9. This Trade Contractor is cautioned that its work will control the schedule of some of the work of other Trade Contractors. The schedule for this package is not an independent activity that can be completed early without concurrence from other effected Trade Contractors. This provision shall be considered as a part of the cost of this Bid Package.
10. Each Trade Contractor shall field verify all existing conditions as required prior to commencing of work and shall make whatever modifications necessary to facilitate the installation of new work. Trade Contractor shall immediately notify the construction manager in writing of his findings, especially upon finding unsatisfactory conditions that may affect his work and the quality of the work of others.
11. Where the General Requirements or the Technical Specifications indicate that the Trade Contractor will be "directed by" or "as indicated or designated by" the Architect all such directions, indications and/or designations etc., shall be through the Construction Manager. All work performed by a Trade Contractor as directed by or as indicated or designated by the Owner, its consultants or the Architect which has not been communicated to the Trade Contractor through the Construction Manager shall not be an added cost to the Trade Contractor's contract with Gilbane and may be subject to rework at the expense of the offending Trade Contractor or Trade Contractors.
12. All debris and materials demolished by this Trade Contractor shall be removed from the project site daily. Stockpiling of debris on the site will not be permitted. Dumpsters for the completion of this work shall be provided by the General Trades contractor. Please note for this project, Gilbane has adopted a policy to reduce the amount of construction waste being sent to landfills by 75%. To that end, the successful General Trades contractor will be required to provide documentation indicating that at least 75% of the entire construction waste shipped from this project has been recycled. This trade contractor will be required to comply with Gilbane's construction waste management plan which is included in the front ends.

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13. Site Benchmarks will be provided by the owner (3). Each Trade Contractor is responsible for their own layout utilizing these benchmarks only.
 14. Use of Elevator in the existing building is prohibited for use by any Trade Contractor.
 15. Provide a "long lead" item listing for the following, but not limited to: equipment and materials, which are required for early order to meet the project schedule. Provide this as a separate document on company letterhead and include within two weeks of receiving the contract from Gilbane.
 16. There will be limited storage and field office areas available on site. These areas may be available for short periods of time and office/storage locations will need to be relocated to accommodate construction activities. This Trade Contractor shall make arrangements with the Construction Manager for any office or storage provisions prior to mobilization. All site areas disturbed by the action of this Trade Contractor shall be returned to its original condition at no additional expense to the owner. Trade Contractor shall coordinate all staging and storage with the Construction Manager inclusive of but not limited to, trailers, tool sheds, storage areas, etc.
 17. Securely cover and tie down all materials nightly or when high winds are forecast to prevent damage and wind-blown debris.
 18. Coordinate with the Construction Manager the delivery, storage, crane pick points, and laydown areas for the material consistent with the Site Utilization Plans. All erection shall be from outside the building. No erection equipment such as cranes, derricks, etc. will be permitted within the building lines. Any access, erection, cribbing, pads, mats, ramps, etc. required for cranes, hoists, etc. shall be provided, maintained and removed by this Trade Contractor. This requirement will include all mats which may be required for equipment movement on-site under wet conditions or foul weather.
 19. This Trade Contractor shall submit complete shop drawings for the Construction Manager and Architect's review prior to commencing work.
 20. Any housekeeping pads incidental to this scope of work shall be included in the base bid.
 21. All abatement of hazardous materials will be conducted by the owner. The Trade Contractor must notify the Construction Manager immediately about any suspect material.
 22. The Trade Contractor's Project Manager shall be responsible to maintain an accurate record of deviation and changes in the work and reasons there of. The Construction Manager and Architect may elect to review the status of these documents on a monthly basis. Failure on the part of the Trade Contractor to maintain the As-Built Documents will be cause to reject the Trade Contractor's monthly payment request in part or in total until the condition is corrected and the record documents are updated to reflect site conditions.
 23. Trade Contractor shall immediately notify the Construction Manager in writing of his findings, especially upon finding unsatisfactory conditions that may affect his work and the quality of the work of others.
 24. The campus is an extremely busy site. Traffic patterns can be very congested at times and parking lots can fill up quickly. Extreme caution should be used at all times when entering and exiting the site.
 25. Each Trade Contractor shall coordinate their work with the works of other trades and with the Construction Manager.
 26. The Owner has employed a testing agency for this project. This Trade Contractor shall conform to all testing requirements as identified within the Contract Documents. The Trade Contractor shall provide 48 hour notice to the Construction Manager prior to date testing agency needs to be on site to perform tests.

27. In addition to the requirements for safety defined in the Conditions of Contract and the Construction Manager’s Safety Plan, the Trade Contractor shall submit within two weeks of Notice to Proceed a detailed safety plan defining it’s intentions and procedures to be used on the project to comply with all requirements of OSHA and Project Safety Program, including work rules, fall protection, hoisting procedures, protection of other trades and finished materials, etc.
28. This Trade Contractor must include all costs necessary to address the requirements of the Safety and Project Quality Plan included in the Project Manual.
29. This Trade Contractor is required to fill out a Gilbane daily report and turn in to Gilbane on a daily basis.
30. This Trade Contractor shall be responsible for their cleanup and debris removal. Dumpsters for the general use of all trades shall be provided by the General Trades Contractor.
31. This project shall pursue a LEED certification with the United States Green Buildings Council (USGBC); see specifications for requirements and responsibilities of subcontractors
32. Each Trade Contractor shall submit a CPM schedule utilizing Primavera Project Planner or SureTrack software within 30 days after notice to proceed. This schedule shall include all construction activities of the Trade Contractor and shall abide by all the requirements indicated in the bid documents pertaining to Critical Path Method Scheduling. Monthly updates of the schedule are required to be submitted along with the monthly Application for Payment.
33. The Trade Contractor shall be required to enter the RFI’s, Daily Work Reports and Submittals using i-Build (requires Internet Explorer 7 or higher and active X. no other software is required). The Project Manager and Superintendent will be required to attend a two (2) hour Computer training by Gilbane which will teach them how to use this program. Refer to Manual 1 for more information on i-Build.

The above listed items are not intended to be an all-inclusive listing of the specified Contract Scope of Work, but are merely to highlight the major items of work.

SPECIFIC ITEMS TO BE EXCLUDED

The following specific item(s) of work contained in the above referenced documents are EXCLUDED from the work of this Bid Package (Contract):

1. Dumpsters
2. *Furnishing of* Lab Sinks
3. *Furnishing of* Emergency Shower & Eye Wash Stations
4. *Furnishing of Service Fixtures*

M. SPECIFICATIONS

The following Specifications, together with the Drawings and other related items of work as described herein, further define the Scope of Work of the Bid Package (Contract).

Specific Specification Sections

<u>Number</u>	<u>Title</u>	<u>Date</u>
<u>DIVISION 00-GENERAL REQUIREMENTS:</u>		
002200	Geotech Data	10/29/10
<u>DIVISION 01- PROJECT REQUIREMENTS:</u>		

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010010	LEED Compliance	10/29/10
011000	Summary	10/29/10
013000	Administrative Requirements	10/29/10
013514	LEED Requirements	10/29/10
013514.01	LEED-NC 2009 Credit Summary	10/29/10
013515	LEED Certification Procedures	10/29/10
013516	LEED Submittal Forms	10/29/10
014000	Quality Requirements	10/29/10
015721	Indoor Air Quality Controls	10/29/10
015713	Temporary Erosion and Sediment Control	10/29/10
016000	Product Requirements	10/29/10
016116	Volatile Organic Compound (VOC) Content Restrictions	10/29/10
016116.01	Accessory Material VOC Content Certification Form	10/29/10
017000	Execution and Closeout Requirements	10/29/10
017800	Closeout Submittals	10/29/10
017820	O&M Manuals	10/29/10
018100	General Commissioning Requirements	10/29/10
018120	Commissioning Submittals	10/29/10
018140	Commissioning Project Close Out	10/29/10
018200	O&M Training	10/29/10
<u>DIVISION 02 -EXISTING</u>		
024100	Demolition	10/29/10
<u>DIVISION 03 -CONCRETE</u>		
031000	Concrete Formwork	10/29/10
032000	Concrete Reinforcement	10/29/10
033000	Cast-In-Place Concrete	10/29/10
<u>DIVISION 06 – WOODS, PLASTICS AND COMPOSITES:</u>		
061000	Rough Carpentry	10/29/10
<u>DIVISION 07 – THERMAL AND MOISTURE PROTECTION:</u>		
078400	Firestopping	10/29/10
079005	Joint Sealers	10/29/10
<u>DIVISION 11 – EQUIPMENT:</u>		
115313	Laboratory Fume Hoods	10/29/10
116210	Laboratory Service Fixtures	10/29/10
116220	Laboratory Accessories	10/29/10
<u>DIVISION 22 – PLUMBING:</u>		
220500	Basic Plumbing Requirements	10/29/10
220503	Through Penetration Firestopping	10/29/10
220505	Plumbing Demolition for Remodeling	10/29/10
220529	Plumbing Supports and Anchors	10/29/10
220548	Vibration Isolation	10/29/10
220553	Plumbing Identification	10/29/10
220719	Plumbing Piping Insulation	10/29/10
221000	Plumbing Piping	10/29/10
221030	Plumbing Specialties	10/29/10
221123	Domestic Water Pumps	10/29/10
223000	Plumbing Equipment	10/29/10
224000	Plumbing Fixtures	10/29/10
<u>DIVISION 33 – UTILITIES:</u>		
331100	Water Utility Distribution Piping	10/29/10
333100	Sanitary Utility Sewerage Piping	10/29/10
334100	Storm Utility Drainage Piping	10/29/10
334913	Storm Drainage Inlets and Manholes, Frames and Covers	10/29/10

Related Specification Sections

<u>Number</u>	<u>Title</u>	<u>Date</u>
<u>DIVISION 03 -CONCRETE</u>		
035400	Cast Underlayment	10/29/10
<u>DIVISION 04 -MASONRY</u>		
040511	Masonry Mortaring and Grouting	10/29/10
042000	Unit Masonry	10/29/10
<u>DIVISION 05 -METALS</u>		
051223	Structural Steel	10/29/10
052100	Steel Joists	10/29/10
053100	Steel Deck	10/29/10
054000	Cold-Formed Metal Framing	10/29/10
055000	Metal Fabrications	10/29/10
055100	Metal Stairs	10/29/10
055213	Pipe and Tube Railings	10/29/10
<u>DIVISION 06 – WOODS, PLASTICS AND COMPOSITES:</u>		
062000	Finish Carpentry	10/29/10
064216	Wood Veneer Paneling	10/29/10
<u>DIVISION 07 – THERMAL AND MOISTURE PROTECTION:</u>		
072100	Thermal Insulation	10/29/10
072119	Foamed in Place Insulation	10/29/10
072400	Exterior Insulation And Finish Systems	10/29/10
072500	Weather Barriers	10/29/10
074214	Insulated Metal Wall Panels	10/29/10
074264	Metal Composite Material Wall Panels	10/29/10
075300	Single Ply Roofing – Fully Adhered EPDM	10/29/10
076200	Sheet Metal Flashing And Trim	10/29/10
077200	Roof Accessories	10/29/10
079513	Expansion Joint Cover Assemblies	10/29/10
<u>DIVISION 08 – OPENINGS:</u>		
081113	Hollow Metal Doors And Frames	10/29/10
081116	Aluminum Doors And Frames	10/29/10
081416	Flush Wood Doors	10/29/10
083100	Access Doors And Panels	10/29/10
083323	Overhead Coiling Doors	10/29/10
084413	Glazed Aluminum Curtain Walls	10/29/10
087100	Door Hardware	10/29/10
088000	Glazing	10/29/10
<u>DIVISION 09 – FINISHES:</u>		
092116	Gypsum Board Assemblies	10/29/10
092216	Non-Structural Metal Framing	10/29/10
093000	Tiling	10/29/10
095100	Acoustical Ceilings	10/29/10
096500	Resilient Flooring	10/29/10
096700	Fluid-Applied Flooring	10/29/10
096813	Tile Carpeting	10/29/10
097200	Wall Coverings	10/29/10
098311	Acoustical Wall Systems	10/29/10
099000	Painting And Coating	10/29/10
099600	High-Performance Coatings	10/29/10
<u>DIVISION 10 – SPECIALTIES:</u>		
101101	Visual Display Boards	10/29/10
102113.13	Metal Toilet Compartments	10/29/10

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102800	Toilet, Bath, And Laundry Accessories	10/29/10
104400	Fire Protection Specialties	10/29/10
105100	Lockers	10/29/10
<u>DIVISION 12 – FURNISHINGS:</u>		
122216	Drapery Track and Accessories	10/29/10
123553	Laboratory Casework	10/29/10
123600	Countertops	10/29/10
124813	Entrance Floor Mats	10/29/10
<u>DIVISION 21 – FIRE SUPPRESSION:</u>		
210500	Basic Fire Suppression Requirements	10/29/10
210503	Through Penetration Firestopping	10/29/10
210529	Fire Suppression Supports and Anchors	10/29/10
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<u>DIVISION 23 – HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC):</u>		
230500	Basic HVAC Requirements	10/29/10
230503	Through Penetration Firestopping	10/29/10
230505	HVAC Demolition for Remodeling	10/29/10
230513	Motors	10/29/10
230529	HVAC Supports and Anchors	10/29/10
230548	Vibration Isolation	10/29/10
230553	HVAC Identification	10/29/10
230593	Testing, Adjusting and Balancing	10/29/10
230713	Ductwork Insulation	10/29/10
230716	HVAC Equipment Insulation	10/29/10
230719	HVAC Piping Insulation	10/29/10
230900	Controls	10/29/10
230913	Instrumentation	10/29/10
231500	Laboratory Utility Piping	10/29/10
232100	Hydronic Piping	10/29/10
232123	HVAC Pumps	10/29/10
232500	Chemical (Water) Treatment	10/29/10
233100	Ductwork	10/29/10
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233423	Power Ventilators	10/29/10
233600	Air Terminal Units	10/29/10
233700	Air Inlets and Outlets	10/29/10
234000	Air Cleaning	10/29/10
235100	Breechings, Chimneys and Stacks	10/29/10
235216	Condensing Boilers	10/29/10
237323	Custom Air Handling Units	10/29/10
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238216	Air Coils	10/29/10
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260500	Basic Electrical Requirements	10/29/10
260503	Through Penetration Firestopping	10/29/10
260505	Electrical Demolition for Remodeling	10/29/10
260513	Wire And Cable	10/29/10
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260526	Grounding and Bonding	10/29/10
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260553	Electrical Identification	10/29/10
260913	Power Monitoring and Control	10/29/10
260933	Lighting Control Systems	10/29/10
261200	Distribution Transformers	10/29/10
262200	Dry Type Transformers	10/29/10
262416	Panelboards	10/29/10
262419	Motor Control	10/29/10
262726	Wiring Devices	10/29/10
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262923	Variable Frequency Drives	10/29/10
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275313	Central Clock System	10/29/10
<u>DIVISION 28 – ELECTRONIC SAFETY AND SECURITY:</u>		
281300	Electronic Access Control	10/29/10
283100	Fire Alarm and Detection Systems	10/29/10
<u>DIVISION 31 – EARTHWORK:</u>		
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312323.43	EPS Geofoam	10/29/10
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C-3.11	Site Grading Plan	10/29/10

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A-701-A	Partial First Floor Finish Plan	10/29/10
A-701-B	Partial First Floor Finish Plan	10/29/10
A-702-A	Partial Second Floor Finish Plan	10/29/10
A-702-B	Partial Second Floor Finish Plan	10/29/10
A-801-A	Level 1 Mod A - Furniture Plan (for Reference Only)	10/29/10
A-801-B	Level 1 Mod B - Furniture Plan(for Reference Only)	10/29/10
A-802-A	Level 2 Mod A - Furniture Plan(for Reference Only)	10/29/10
A-802-B	Level 2 Mod B - Furniture Plan (for Reference Only)	10/29/10
AC-101-A	Partial First Floor Reflected Ceiling Plan - Module A	10/29/10
AC-101-B	Partial First Floor Reflected Ceiling Plan - Module B	10/29/10
AC-102-A	Partial Second Floor Reflected Ceiling Plan - Module A	10/29/10
AC-102-B	Partial Second Floor Reflected Ceiling Plan - Module B	10/29/10

ARCHITECTURAL EQUIPMENT DRAWING LIST

AQ-401	First Floor Equipment Plans	10/29/10
AQ-402	First Floor Equipment Plans	10/29/10
AQ-403	First Floor Equipment Plans	10/29/10
AQ-404	Second Floor Equipment Plans	10/29/10
AQ-405	Second Floor Equipment Plans	10/29/10
AQ-406	Second Floor Equipment Plans	10/29/10
AQ-501	Lab Casework Details	10/29/10
AQ-502	Student Station Details	10/29/10
AQ-503	Lab Equipment Details	10/29/10
AQ-504	Fume Hood Information	10/29/10
AQ-505	Fume Hood Information	10/29/10
AQ-601	Lab Casework Types	10/29/10
AQ-602	Lab Equipment Schedules	10/29/10
AQ-603	Lab Equipment Schedules	10/29/10

FIRE PROTECTION DRAWING LIST

FP-101B	First Floor Plan - Mod B - Fire Protection	10/29/10
FP-102B	Second Floor Plan - Mod B - Fire Protection	10/29/10
FP-103	Penthouse Plan - Fire Protection	10/29/10
FP-201B	First Floor Plan - Mod B - Fire Protection Sprinkler Layout	10/29/10
FP-202B	Second Floor Plan - Mod B - Fire Protection Sprinkler Layout	10/29/10
FP -203	Penthouse Plan - Fire Protection Sprinkler Layout	10/29/10
FP-400	Fire Protection Schedules and Riser Diagram	10/29/10

PLUMBING DRAWING LIST

PD-100A	Underfloor Plan - Mod A - Plumbing Demolition	10/29/10
PD-101A	First Floor Plan - Mod A - Plumbing Demolition	10/29/10
PD-102A	Second Floor Plan - Mod A - Plumbing Demolition	10/29/10
P-100A	Underfloor Plan - Mod A - Plumbing	10/29/10
P-100B	Underfloor Plan - Mod B - Plumbing	10/29/10
P-101A	First Floor Plan - Mod A - Plumbing	10/29/10

Natural Sciences Addition & Renovation - *Bid Release 19R*
BP 15L Plumbing & Site Utilities Work (Re-Bid)

P-101B	First Floor Plan - Mod B – Plumbing	10/29/10
P-102A	Second Floor Plan - Mod A – Plumbing	10/29/10
P-102B	Second Floor Plan - Mod B - Plumbing	10/29/10
P-103	Penthouse Plan - Plumbing	10/29/10
P-104	Roof Plan – Plumbing	10/29/10
P-200A	Under floor Plan - Mod A - Cutting and Patching Plan	10/29/10
P-400	Enlarged Plans - Plumbing	10/29/10
P-500	Plumbing Details	10/29/10
P-501	Plumbing Details	10/29/10
P-600	Plumbing Material List	10/29/10

MECHANICAL DRAWING LIST

MD-101A	First Floor Plan - Mod A - Mechanical Demolition	10/29/10
MD-102A	Second Floor Plan - Mod A - Mechanical Demolition	10/29/10
MD-200A	Underfloor Plan - Mod A - Lab Utility Piping Demolition	10/29/10
MD-201A	First Floor Plan - Mod A - Lab Utility Piping Demolition	10/29/10
MD-202A	Second Floor Plan - Mod A - Lab Utility Piping Demolition	10/29/10
M-100	Mechanical Site Plan	10/29/10
M-100B	Underfloor Plan - Mod B – Ventilation	10/29/10
M-101A	First Floor Plan - Mod A – Ventilation	10/29/10
M-101B	First Floor Plan - Mod B – Ventilation	10/29/10
M-102A	Second Floor Plan - Mod A – Ventilation	10/29/10
M-102B	Second Floor Plan - Mod B – Ventilation	10/29/10
M-103	Penthouse Plan - Ventilation	10/29/10
M-104	Roof Plan - Ventilation	10/29/10
M-201A	First Floor Plan - Mod A - Heating	10/29/10
M-201B	First Floor Plan - Mod B - Heating	10/29/10
M-202A	Second Floor Plan - Mod A - Heating	10/29/10
M-202B	Second Floor Plan - Mod B - Heating	10/29/10
M-203	Penthouse Plan - Heating	10/29/10
M-301A	First Floor Plan - Mod A - Lab Utility Piping	10/29/10
M-301B	First Floor Plan - Mod B - Lab Utility Piping	10/29/10
M-302A	Second Floor Plan - Mod A - Lab Utility Piping	10/29/10
M-302B	Second Floor Plan - Mod B - Lab Utility Piping	10/29/10
M-303	Roof Plan and Penthouse Plan - Lab Utility Piping	10/29/10
M-400	Campus Chilled Water Schematic Diagram	10/29/10
M-401	Heating Water Schematic Diagram	10/29/10
M-402	Cooling Water Schematic Diagram	10/29/10
M-403	Mechanical Control Diagrams	10/29/10
M-404	Mechanical Control Diagrams	10/29/10
M-405	Mechanical Control Diagrams	10/29/10
M-406	Mechanical Sections	10/29/10
M-500	Mechanical Details	10/29/10
M-501	Mechanical Details	10/29/10
M-502	Mechanical Details	10/29/10
M-600	Mechanical Schedules	10/29/10
M-601	Mechanical Schedules	10/29/10
M-602	Mechanical Schedules	10/29/10

ELECTRICAL DRAWING LIST

ED-100	Electrical Demolition Site Plan	10/29/10
ED-101A	First Floor Plan - Mod A - Lighting Demolition	10/29/10
ED-102A	Second Floor Plan - Mod A - Lighting Demolition	10/29/10
ED-201A	First Floor Plan - Mod A - Power Demolition	10/29/10
ED-202A	Second Floor Plan - Mod A - Power Demolition	10/29/10
ED-301A	First Floor Plan - Mod A - Systems Demolition	10/29/10

Natural Sciences Addition & Renovation - *Bid Release 19R*
BP 15L Plumbing & Site Utilities Work (Re-Bid)

ED-302A	Second Floor Plan - Mod A - Systems Demolition	10/29/10
E-000	Electrical Cover Sheet	10/29/10
E-100	Electrical Site Plan	10/29/10
E-101A	First Floor Plan - Mod A – Lighting	10/29/10
E-101B	First Floor Plan - Mod B – Lighting	10/29/10
E-102A	Second Floor Plan - Mod A - Lighting	10/29/10
E-102B	Second Floor Plan - Mod B – Lighting	10/29/10
E-103	Penthouse Plan – Lighting	10/29/10
E-201A	First Floor Plan - Mod A – Power	10/29/10
E-201B	First Floor Plan - Mod B – Power	10/29/10
E-202A	Second Floor Plan - Mod A – Power	10/29/10
E-202B	Second Floor Plan - Mod B – Power	10/29/10
E-203	Penthouse Plan – Power	10/29/10
E-301A	First Floor Plan - Mod A - Systems	10/29/10
E-301B	First Floor Plan - Mod B – Systems	10/29/10
E-302A	Second Floor Plan - Mod A – Systems	10/29/10
E-302B	Second Floor Plan - Mod B – Systems	10/29/10
E-303	Penthouse Plan – Systems	10/29/10
E-400	Enlarged Plan – Electrical	10/29/10
E-401	Enlarged Plan – Electrical	10/29/10
E-410	Medium Voltage One Line Diagram – Electrical	10/29/10
E-411	One Line Diagram – Electrical	10/29/10
E-412	One Line Diagram – Electrical	10/29/10
E-413	One Line Diagram – Electrical	10/29/10
E-414	Emergency One Line Diagram – Electrical	10/29/10
E-500	Details – Electrical	10/29/10
E-501	Details – Electrical	10/29/10
E-502	Details – Electrical	10/29/10
E-503	Details – Electrical	10/29/10
E-600	Electrical Material List	10/29/10
E-700	Electrical Schedules	10/29/10
E-701	Electrical Schedules	10/29/10
E-702	Electrical Schedules	10/29/10

TELECOMMUNICATIONS DRAWING LIST

TD-101A	First Floor Plan - Mod A - Technology Demolition	10/29/10
TD-102A	Second Floor Plan - Mod A - Technology Demolition	10/29/10
T-000	Technology Cover Sheet	10/29/10
T-100	Technology Site Plan	10/29/10
T-101A	First Floor Plan - Mod A – Technology	10/29/10
T-101B	First Floor Plan - Mod B – Technology	10/29/10
T-102A	Second Floor Plan - Mod A – Technology	10/29/10
T-102B	Second Floor Plan - Mod B – Technology	10/29/10
T-103	Penthouse Plan – Technology	10/29/10
T-300	Enlarged Plans – Technology	10/29/10
T-400	Risers and Details – Technology	10/29/10
T-401	Risers and Details – Technology	10/29/10
T-500	Technology Material List	10/29/10

O. SIGNATURE

By executing this Bid Proposal, the undersigned represents that he is duly authorized on behalf of his/her company to submit this Proposal Form, agrees to the terms and conditions contained in the General Instructions to Bidders, and if awarded the contract, will perform in accordance with the terms and conditions of this Proposal Form and the documents which have been incorporated by reference herein. The undersigned represents that these Proposals are made in good faith, without fraud, collusion, or connection of any kind with any other bidder of the same work, that he is completing in his own interest and in his own behalf, without connection of obligation to any undisclosed person, that no other person has any interest in regard to all conditions pertaining to the Work and in regard to the place where it is to be done, has made his own examination and estimates and from them makes this Proposal.

Bidder: _____
(LEGAL SIGNATURE)

(TYPE/PRINT NAME)

Firm: _____

Address: _____

City, State, Zip: _____

Business Phone No.: () _____

Business Fax No.: () _____

Email Address: _____

This bidder is a (an): _____
Individual, Partnership, Corporation

The full names, address and telephone numbers of all persons interested in the Proposal, as principals are as follows:

NOTE: This Proposal must bear the written signature of the Bidder.

- a. If the Bidder is an Individual doing business under a name other than his own name, the Proposal must so state, giving the address of the Individual.
- b. If the Bidder is a Partnership, the Proposal must so state, setting forth the names and addresses of all Partners, and must be signed by a Partner so designated as such.
- c. If the Bidder is a Corporation, the Proposal must be signed by a duly authorized officer or agent of the Corporation.

Bid Security Enclosed: 10% of base bid total (In Favor of Joliet Junior College).

Bid Bond _____ Cashier's Check _____ Certified Check _____

CERTIFICATE OF BIDDER ELIGIBILITY

720 ILCS 5/33E-11 requires that all contractors bidding for public agencies in the State of Illinois certify that they are not barred from bidding on public contracts for bid rigging or bid rotation.

The following certification must be signed and submitted with bidder's bid proposal. FAILURE TO DO SO MAY RESULT IN DISQUALIFICATION OF THE BIDDER.

_____, as part of its bid for _____

certifies that said contractor is not barred from bidding on the aforementioned contract as a result of a violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33E-4.

Firm Name: _____

By: _____
Authorized Agent of Contractor

Title

SUBSCRIBED AND SWORN TO before me
this _____ day of _____, 2010.

NOTARY PUBLIC

EXECUTE AND ATTACH TO PROPOSAL FORM

[Contractors With 25 or More Employees]

**CERTIFICATE OF COMPLIANCE WITH
ILLINOIS DRUG-FREE WORKPLACE ACT**

_____, having 25 or more employees, does hereby certify pursuant to Section 3 of the *Illinois Drug-Free Workplace Act* (30 ILCS 580/3) that [he, she, it] shall provide a drug-free workplace for all employees engaged in the performance of work under the contract by complying with the requirements of the *Illinois Drug-Free Workplace Act* and, further certifies, that [he, she, it] is not ineligible for award of this contract by reason of debarment for a violation of the *Illinois Drug-Free Workplace Act*.

By Authorized Agent

Date

SUBSCRIBED AND SWORN TO before me
this _____ day of _____, 2010.

NOTARY PUBLIC

EXECUTE AND ATTACH TO PROPOSAL FORM

NON-COLLUSION AFFIDAVIT

AFFIDAVIT: "I (we) hereby certify and affirm that my (our) proposal was prepared independently for this project and that it contains no fees or amounts other than for legitimate execution of this work as specified and that it includes no understanding or agreements in restraint of trade."

Name of Bidder: _____
Date: _____

(If an individual)
Signature of Bidder: _____

Business Address: _____

(Seal)

(If a Partnership)
Firm Name: _____

Business Address of all partners of the Firm:

(Seal)

(If a Corporation)
Name of Officers:
President: _____
Secretary: _____
Treasurer: _____
Attest: _____
Secretary

(Seal)

EXECUTE AND ATTACH TO PROPOSAL FORM

**CERTIFICATE REGARDING
SEXUAL HARASSMENT POLICY**

_____ [contractor], does hereby certify pursuant to Section 2-105 of the *Illinois Human Rights Act* (775 ILCS 5/2-105) that [he, she, it] has a written sexual harassment policy that includes, at a minimum, the following information: (i) the illegality of sexual harassment; (ii) the definition of sexual harassment under State law; (iii) a description of sexual harassment utilizing examples; (iv) an internal complaint process including penalties; (v) the legal recourse, investigative and complaint process available through the Department of Human Rights and Human Rights Commission; (vi) directions on how to contact the Department of Human Rights and Human Rights Commission; and (vii) protection against retaliation.

By: _____
Authorized Agent of Contractor

Title

SUBSCRIBED AND SWORN TO before me
this _____ day of _____, 2010.

NOTARY PUBLIC

EXECUTE AND ATTACH TO PROPOSAL FORM

CERTIFICATE REGARDING HUMAN RIGHTS ACT

Any company or organization to be awarded a contract for goods and/or services must be in compliance with the **Human Rights Act** and all rules and regulations thereunder. Our company has an Equal Employment Opportunity and Affirmative Action Program which complies with Executive Order 11246, the Vietnam Era Veterans' Readjustment Assistance Act of 1974 and the Rehabilitation Act of 1973.

YES _____ NO _____

CERTIFICATE REGARDING THE PREVAILING WAGE ACT

Our company certifies that it is eligible for bidding on public contracts, and has complied with section 11a of the Prevailing Wage Act, 820 ILCS 130/0.01-12(2000), and has not disregarded their obligations to employees under the Prevailing Wage Act on two (2) separate occasions, and that they, or any firm, corporation, partnership or association in which such contractors or subcontractors have an interest, are not prohibited from being awarded any contract or subcontract for a public works project. In addition, Joliet Junior College is requesting all Bidders/Awarded Trade Contractors to employ labor from a recognized apprenticeship training program as a condition of award.

YES _____ NO _____

CERTIFICATE REGARDING VALID BUSINESS LICENSE

Our company is eligible to do business in the State of Illinois and have submitted as part of this bid a valid business license and the Federal Employer Tax Identification Number (FEIN) or Social Security Number for individuals. Further, if applicable, our company will employ apprentices who are properly indentured into a Joint Apprenticeship Training Program which is registered and certified with the United States Department of Labor, Bureau of Apprenticeship and Training.

YES _____ NO _____

FEIN Number _____

By: _____
Authorized Agent of Contractor

Title

SUBSCRIBED AND SWORN TO before me
this _____ day of _____, 2010.

NOTARY PUBLIC

EXECUTE AND ATTACH TO PROPOSAL FORM

BIDDER INFORMATION FORM

Bidder Information Form is to be submitted with each Bid Form.

- 1) Total Bonding Capacity: \$ _____
Single Project Bonding Capacity: \$ _____
Work Currently Bonded: \$ _____
- 2) Work now under contract: \$ _____
Work in place last year: \$ _____
Average annual sales last 3 years: \$ _____
- 3) Current Experience Modification Rating (EMR): _____
- 4) Has firm ever failed to complete a contract: _____
- 5) Submit two (2) Owner or Architect/Engineer References:
 - a. Name: _____
Telephone Number: _____
 - b. Name: _____
Telephone Number: _____
- 6) Contractor Qualifications:
 - a. The Owner may require from any Bidder, prior to award of the contract, a detailed statement regarding the business organization, years in service, and the technical organization and plant of the Bidder that is available for the work contemplated.
 - b. The competency and responsibility of the bidders and of their proposed Subcontractors may be considered in making awards.

By _____

Authorized Agent of Contractor

Title

SUBSCRIBED AND SWORN TO before me
this _____ day of _____, 2010.

NOTARY PUBLIC

EXECUTE AND ATTACH TO BID FORM