Addendum

ADDENDUM NO: 02, BP1

PROJECT: Ball State University, North Dining Project, Bid Package No. 1

BSU PROJECT NO: 2017-023.01 NWD

CSO PROJECT NO: 17028 DATE: June 7, 2018 BY: T. Cheesman

This Addendum is issued in accordance with the provisions of “The General Conditions of the Contract for Construction,” Article 1, “Contract Documents” and becomes a part of the Contract Documents as provided therein. This Addendum includes:

PART 1 – BIDDING AND CONTRACT DOCUMENTS:

1.01 Specification Section 00 11 10 – Notice to Bidders

Delete Contract #06 – Elevators from this bid package. This Contract will be bid at a later date.

1.02 Specification Section 00 41 06 – Bid Form – Contract No. 6

Delete in its entirety.

PART 2 – SPECIFICATIONS:

2.01 Section 01 10 00 – Summary

1. Part 1.04, Delete Contract #06 – Elevators. This Contract will be bid at a later date.

2. WORK COVERED BY CONTRACT DOCUMENTS

A. Add the following Scope of Work Items:

1. Contract #01 – Mass Excavation / Site Utilities

dd. Provide grading to establish Building Pad elevation at 11” below the 939.00 slab-on-grade elevation.

ee. Limits of Building Pad will be 5’ outside of the following column lines:
   i. A – from X2 to 13.
   ii. 13 – from A to F.
   iii. F – from 13 to Z1.
   iv. E.1 – from 1 to Z1.
   v. 1 – from E.1 to A.1.
   vi. A.1 – from 1 to X2.

ff. Provide perimeter site grading outside of Building Pad to taper elevations to meet existing perimeter grades at each side.

gg. Provide excess spoil removal for work provided by others = 1,000 CY.
2. **Contract #02 – Aggregate Piers**
   n. Section 31 64 10, Part 3.01-B: If cave-ins occur during excavation, then this will be a changed condition to provide extra work for temporary steel casing.
   o. Section 31 64 10, Part 3.01-D: If obstructions are encountered, then this will be a changed condition to provide extra work for removal of the obstruction or relocation of the pier.

3. **Contract #03 – Building Concrete**
   gg. Building pad elevation will be established by Contract #01 at 11” below the 939.00 slab-on-grade elevation. Limits of Building Pad are defined in Contract #01, Scope of Work in this Addendum #2.
   hh. Provide specified sealer for only pigmented concrete per Section 03 35 00, Concrete Surface Treatment as included in this Addendum #2. Exclude specified sealer for all other concrete, which will be provided as needed by others in Bid Package 2.
   ii. Provide perimeter slab & foundation wall insulation per Section 07 21 10, Below Grade Insulation as included in this Addendum #2.
   jj. Exclude all caulking, which will be provided by others in Bid Package 2.
   kk. Exclude trench drain per Sheet S204, which will be furnished & installed by others in Bid Package 2.
   ll. Exclude concrete fill in coolers per Sheet S330, Section 10.
   mm. Exclude concrete work at Tunnel Reinforcement, Hatch Modifications & Exhaust Cover Modifications, which will be provided by Contract #04.
   nn. Provide concrete foundation wall per Sheet S300, Section 7.
   oo. Revise Milestone Schedule to provide all slab-on-grade and slab-on-deck in November & December. Furnish slab concrete for cold weather conditions. Exclude all temporary partitions, temporary enclosures & temporary heating, which will be provided by others.

4. **Contract #04 – Structural Steel & Stairs**
   u. Provide all work required for Tunnel Hatch Modifications. Provide penetrations as required. Provide waterproofing per Section 07 13 26, Self-Adhering Sheet Waterproofing as required. Provide concrete work as required. Provide new Hatch.
   v. Provide all work required for Tunnel Exhaust Cover Modifications. Provide penetrations as required. Provide waterproofing per Section 07 13 26, Self-Adhering Sheet Waterproofing as required. Provide concrete work as required. Provide new Exhaust Cover.

5. **Contract #05 – Sheeting & Shoring**
   o. No additional items.

6. **Contract #06 - Elevators**
   s. Remove this Entire Contract #06 from Bid Package 1.

2.02 **Section 03 30 00 Cast-in-Place Concrete**
   1. Add paragraph 1.06-E-3: “Exposed colored slab mock-up shall receive concrete surface treatments as specified in spec section 03 35 00.”
   2. Revise paragraph 2.02-L-1: “Maximum perm rating of 0.1 perms per ASTM E1745, E96, F1249, E154.”
2.03 Section 03 35 00 Concrete Surface Treatment

Add this section to the Project Manual and to the Table of Contents.

2.04 Section 05 31 00 Steel Roof Deck

Part 2.01, E.1 Revise the first sentence to say the following – “Insulation batts and plastic lath shall be furnished by manufacturer and installed in the field.”

2.05 Section 05 51 00 Metal Stairs

Insert Paragraph 1.02.D. as follows:

“D. Monumental Stair: Refer to Section 05 12 00 “Structural Steel” and Drawing Sheet S002 for architecturally exposed structural steel (AESS) requirements.”

2.06 Section 07 21 10 Below Grade Insulation

Add this section to the Project Manual. Perimeter insulation should be 2 inches thick and located around the entire exterior perimeter of the building as follows: Vertically – from bottom of slab to top of footing; horizontally – 24 inches to the interior. At the loading dock, run insulation under the leveler as shown on sketch below (typical condition at each leveler).

2.07 Section 14 24 00 Hydraulic Elevators

Remove this section from the Project Manual. This section will not be bid as part of Bid Package 1.
PART 3 – DRAWINGS:

3.01  **D101 – NATURAL GAS, WATER & SEWER DEMOLITION PLAN**
A. Replace with attached updated sheet. Clarified legend item as indicated by revision cloud.

3.02  **C102 – NATURAL GAS, WATER, SEWER UTILITY PLAN**
A. Replace with attached updated sheet. Revised trench drain notation at northeast corner of site.

3.03  **C103 - STORMWATER POLLUTION PREVENTION PLAN**
A. Replace with attached updated sheet. Added and updated various legend items and stormwater pollution prevention plan schedule per IDEM review. Also added temporary diversion swales and additional construction access as requested by IDEM.

3.04  **C103A- STORMWATER POLLUTION PREVENTION PLAN**
A. Add drawing to this set. New sheet added to depict location of post-construction storm water pollution prevention measure per IDEM review.

3.05  **C602 – STORM SEWER PLAN & PROFILE**
A. Replace with attached updated sheet. Revised trench drain notation at northeast corner of site.

3.06  **C801 – STORMWATER POLLUTION PREVENTION DETAILS & SPECIFICATIONS**
A. Replace with attached updated sheet. Added details 9, 10, and 11 and corresponding specifications per IDEM review.

3.07  **C802 – STORMWATER POLLUTION PREVENTION INDEX**
A. Replace with attached updated sheet. Updates to Stormwater Pollution Prevention Plan Index per IDEM review.

3.08  **C803 – GENERAL DETAILS**
A. Replace with attached updated sheet. Revised trench drain detail 10/C803.

3.09  **S202 – SLAB ON GRADE PLAN – AREA A**
A. Replace with attached updated sheet. Revised slab recess at cooler footprint in Kitchen.

3.02  **S204 – SECOND LEVEL FRAMING PLAN – AREA A**
A. Replace with attached updated sheet. Revised EOS dimensions along grid X2 and grid E.1.

3.03  **S207 – ROOF FRAMING PLAN – AREA B**
A. Replace with attached updated sheet. Added frame for exhaust fan near 7-B.
3.04  S301 – FOUNDATION SECTIONS AND DETAILS

A. In sections 6, 7, 8 and 9 update reference note for mat foundation to “MAT FOUNDATION PER S302” to correct sheet number reference.

PART 4 – BIDDER QUESTIONS AND RESPONSES:

4.01  QUESTION - Are the retaining/ramp walls & Piers shown on the structurals part of this bid package? There is a note to reference the LA drawings, however there is only 1 LA and it has no info on these walls.  RESPONSE – Exclude all site concrete per Addendum #1, Scope of Work Item ff for Contract #03.

4.02  QUESTION - Is the interior wall shown as detail 7/S300 concrete or CMU?  RESPONSE - Provide concrete foundation wall.

4.03  QUESTION - Who is providing the grout/insulation at the coolers/freezers shown in detail 10/S330?  RESPONSE – Exclude concrete fill in coolers, which will be provided in Bid Package 2.

4.04  QUESTIONS - Does the scope include the walls/stairs/flatwork and or any work in the loading dock area?  RESPONSE – Yes, concrete work includes the raised dock, ramp and stairs as shown on structural drawings and sheet A205 issued in Addendum No. 1.

4.05  QUESTION - Are the floor sinks in the dining area to be colored concrete?  RESPONSE - The floor sinks are plumbing items that are embedded in the floor slab.  They are basically a plastic basin with cover and drain.  The floor sinks are not constructed of concrete.

4.06  QUESTION - Is any work with the tunnel to be by this contract?  RESPONSE – Yes, should be part of Contract #04 as clarified in Scope of Work issued in Addendum No. 1.

4.07  QUESTION - Does the elevator pit footing receive fluid applied waterproofing? Detail 3/A425 shows the dashed line including the footing.  RESPONSE – We want the waterproofing to extend to the bottom of footing as shown on the elevator sections on sheets A424 and A425.

4.08  QUESTION - Sheets C101 (Site Grading Plan) and C101A (Dock Grading Plan) are marked “For reference only”. Will current revised sheets be issued for the grading work?  RESPONSE - Final Grading Plans (C101 and C101A) will be included in future bid package as final site grading will be tied to the site layout plan which will also be included in said future package. Grading scope is defined in Addendum #2, Scope of Work Items for Contract #01.

4.09  QUESTION - The chilled and hot water details state to reference sheet M301 for additional requirements. Will this sheet be issued in a forthcoming addendum?  RESPONSE – No, M301 will not be included in this bid package. All MEP drawings will be issued in a future bid package, which includes all underslab MEP work to be coordinated with the concrete installation. Exclude all hot water service & chilled water service piping per Addendum #1, Scope of Work Item aa.

4.10  QUESTION - Sheet C101 refers to the “SD Series” drawings for details. Will these sheets be issued as well?  RESPONSE – No SD sheets will be included in this bid package. These are “Site Development” plans which are being developed for inclusion in a future bid package.

4.11  QUESTION - Sheet C102 shows a brine tank and supply line. Will this work be included in Contract #1? If so, additional drawings will be required for the details, specifically P101.  RESPONSE - C102 shows brine tank for location only. Tank will be bid in subsequent bid package.

4.12  QUESTION - Are we to consider the LA100 as the site plan?  RESPONSE – Yes, LA100 is the site plan. This same plan will be included, with further dimensioning, in a future bid package.
Attachments

Drawings
D101
C102
C103
C103A
C602
C801
C802
C803
S202
S204
S207

Full Specification Sections
Section 03 35 00  Concrete Surface Treatment
Section 07 21 10  Below Grade Insulation

Final Bid Forms
Contract No. 01
Contract No. 02
Contract No. 03
Contract No. 04
Contract No. 05

End of Addendum No. 2
PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

A. Section includes the following:

1. Penetrating liquid floor treatment, sealer.
2. Protectant treatment for colored concrete.

1.03 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.

B. LEED Submittals:

1. Product Data for Credit MR 4: For products having recycled content, documentation indicating percentages by weight of postconsumer and preconsumer recycled content. Include statement indicating cost for each product having recycled content.
2. Product Data for Credit IEQ 4.3: For liquid floor treatments and curing and sealing compounds, documentation including printed statement of VOC content.

1.04 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer and manufacturer.

B. Material Certificates: For each of the following, signed by manufacturers:

1. Floor and slab treatments.

1.05 QUALITY ASSURANCE

A. Installer Qualifications: An experienced installer who has completed concrete Work similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

B. Manufacturer Qualifications: A firm experienced in manufacturing concrete surface treatment products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.

C. Source Limitations: Obtain each type of material of the same brand from the same manufacturer.

D. Mockups: Refer to Division 03 Section “Cast-in-place Concrete” for mockup requirements.
E. Preinstallation Conference: Conduct conference at Project site.

1. Before submitting design mixtures, review concrete design mixture and examine procedures for ensuring quality of concrete materials. Require representatives of each entity directly concerned with cast-in-place concrete to attend, including the following:
   a. Contractor's superintendent.
   b. Independent testing agency responsible for concrete design mixtures.
   c. Ready-mix concrete manufacturer.
   d. Concrete subcontractor.
   e. Special concrete finish subcontractor.

2. Review concrete finishes and finishing, and concrete protection.

PART 2 - PRODUCTS

2.01 GENERAL

A. Provide penetrating sealer for all concrete. Provide additional stain guard sealer at pigmented (colored) concrete locations.

2.02 LIQUID FLOOR TREATMENTS – SEALER

A. VOC Content: Liquid floor treatments shall have a VOC content of 200 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

B. Penetrating Liquid Floor Treatment: Clear, chemically reactive, waterborne solution of inorganic silicate or silicate materials and proprietary components; odorless; that penetrates, hardens, and densifies concrete surfaces.

1. Products: Subject to compliance with requirements, provide one of the following:
   a. ChemMasters; Chemisil Plus.
   b. ChemTec Int'l; ChemTec One.
   c. Conspec by Dayton Superior; Intraseal.
   d. Curecrete Distribution Inc.; Ashford Formula.
   e. Dayton Superior Corporation; Day-Chem Sure Hard (J-17).
   f. Euclid Chemical Company (The), an RPM company; Euco Diamond Hard.
   g. L&M Construction Chemicals, Inc.; Seal Hard.
   h. Meadows, W. R., Inc.; LIQUI-HARD.
   i. Nox-Crete Products Group; Duro-Nox.
   k. ProSoCo, Consolideck.

2.03 LIQUID FLOOR TREATMENTS – FOR PIGMENTED CONCRETE

A. General: Provide stain guard sealer to provide additional protection for pigmented (colored) concrete that is compatible with penetrating sealer/hardener.

B. VOC Content: Liquid floor treatments shall have a VOC content of 200 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
C. Stain Guard Sealer: Ready to use, is a low odor, VOC compliant, topical sealer consisting of low molecular emulsified cross-linking, coupling polymers that effectively protect concrete and other natural stone floor surfaces from the damaging effects of staining, defacing and deterioration due to contaminant penetration.

1. Acceptable Material: L& M Construction Chemicals, Inc. Permaguard SPS.
2. Sheen: Low level gloss as determined by mockup.

D. Maintenance Cleaning Solution: Proprietary, mild, highly concentrated liquid concrete cleaner and conditioner containing wetting and emulsifying agents; biodegradable, environmentally safe and certified High Traction by National Floor Safety Institute (NFSI).

1. Acceptable Material:
   b. Advanced Floor Products; Retro Clean
   c. American Decorative Concrete, AmeriPolish SureLock ProGuard Conditioning Cleaner or Rejuvenating Cleaner.
   d. ProSoCo, Consolideck LS Clean.

PART 3 - EXECUTION

3.01 FINISHING FLOORS AND SLABS

A. General: Comply with ACI 302.1R recommendations for screeding, restraightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.

1. Refer to Division 03 Section “Cast-in-place Concrete” for finishing floors and slabs.

3.02 EXAMINATION

A. Site Verification of Conditions:

1. Verify that concrete substrate conditions, which have been previously installed under other sections or contracts, are acceptable for product installation in accordance with manufacturer’s instructions prior to installation of concrete finishing materials.

B. Verify Concrete Slab Performance Requirements:

1. Verify concrete is cured to 28 day 4000 psi strength.
2. Verify concrete surfaces received a hard steel-trowel finish (3 passes) during placement. Do not apply chemically stained concrete coloring system and sealer over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions otherwise detrimental to application.

C. Acceptance: Starting of work will be construed as Applicator's and manufacturer's acceptance of surfaces and conditions within any particular area.
3.03 PREPARATION

A. Surface Preparation: Allow new concrete to cure as recommended by manufacturer to ensure proper reaction between concrete and staining materials.

1. General: Perform preparation and cleaning procedures in accordance with manufacturer's instructions and as herein specified, for each particular substrate condition.

2. Interior Applications: Minimum cure time of concrete is 30 to 60 days, or longer if necessary to meet the specified water vapor transmission requirements.

3. Cure with either liquid cure or dissipating curing compound. Remove all curing compound residue during surface preparation.

4. Cure surfaces using the same method and different sections (pours) chemically stained when concrete is the same age.

5. Clean surfaces before applying surface treatments. Program cleaning so that contaminants from cleaning process will not fall onto clean surfaces and to prevent damage to adjacent construction from power washers and rotary scrubbers.

   a. The substrate shall be clean of loose dirt and debris. Any surface irregularities, such as concrete spillage or other built up foreign materials shall be removed prior to application of chemically stained concrete coloring system and sealer.

   b. Surface shall be dry and free of grease, oil stains or any unstable foreign materials.

   c. Pressure Washing: Use a pressure washer equipped with a fan tip and rated for a minimum pressure capability of 4000 psi.

6. Unless otherwise recommended by manufacturer, maintain surface temperature of concrete substrate at a minimum of 45 degrees F at least 72 hours prior to application of concrete coloring system and sealer and thereafter.

7. Repair and fill all “working” cracks and construction joints with a semi-rigid elastomeric material in accordance with manufacturer’s recommendations. Refer to Division 07 Section “Joint Sealants” for products.

B. Scoring: Score decorative jointing in concrete surfaces 1/8 inch deep with diamond blades. Rinse until water is completely clean.

3.04 LIQUID FLOOR TREATMENTS – SEALER

A. Apply floor finish prior to installation of fixtures and accessories.

B. Penetrating Liquid Floor Treatment: Prepare, apply, and finish penetrating liquid floor treatment according to manufacturer's written instructions.

1. Remove curing compounds, sealers, oil, dirt, laitance, and other contaminants and complete surface repairs.

2. Do not apply to concrete that is less than 28 days' old, unless recommended otherwise by manufacturer.

3. Apply liquid until surface is saturated, scrubbing into surface until a gel forms; rewet; and repeat brooming or scrubbing. Rinse with water; remove excess material until surface is dry. Apply a second coat in a similar manner if surface is rough or porous.
3.05 LIQUID FLOOR TREATMENTS – FOR PIGMENTED CONCRETE

A. Apply floor finish prior to installation of fixtures and accessories.

B. Stain Guard Treatment: Prepare, apply, and finish stain guard treatment according to manufacturer’s written instructions.

1. Remove curing compounds, sealers, oil, dirt, laitance, and other contaminants and complete surface repairs.
2. Do not apply to concrete that is less than 28 days’ old, unless recommended otherwise by manufacturer.
3. Apply with pre-moistened micro-fiber pad, applying evenly and thinly. Do not puddle. Burnish after final coat has dried a minimum of 4 hours, using high speed of 2000 RPM burnisher with soft white pad or soft natural hogs hair. Burnishing is necessary for enhanced gloss and improved durability and chemical resistance.

3.06 PROTECTION OF LIQUID FLOOR TREATMENTS

A. Protect liquid floor treatments from damage and wear during the remainder of construction period. Use protective methods and materials, including temporary covering, recommended in writing by liquid floor treatments installer.

1. Provide plywood sheets in addition to the protective covering to ensure the concrete is not damaged during construction and before concrete treatments are applied.
2. Proprietary Cover: EZ Cover by McTech Group, Inc. or approved equivalent.

B. Protection of pigmented (colored) concrete treatments:

1. No satisfactory chemical or cleaning procedure is available to remove petroleum stains from the concrete surface. Prevention is therefore essential.

   a. All hydraulic powered equipment must be diapered to avoid staining of the concrete.
   b. No trade will park vehicles on the inside slab. If necessary to complete their scope of work, drop cloths will be placed under vehicles at all times.
   c. No pipe cutting machine will be used on the inside floor slab
   d. Steel will not be place on interior slab to avoid rust staining.
   e. Acids and acidic detergents will not come into contact with slab.
   f. All trades informed that the slabs must be protected at all times.

END OF SECTION
1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

A. Section Includes:
   1. Foam-plastic board insulation.

1.03 ACTION SUBMITTALS

A. Product Data: For each type of product indicated.

B. LEED Submittals:
   1. Submit LEED Product Data Sheets (LPDS) with each submittal. Refer to Section 01 81 13 "Sustainability Requirements" for submittal requirements and for copy of LPDS.
   2. Credit MR 4: Product data and certification letter from product manufacturers indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content. Include statement indicating material cost for each product having recycled content.
      a. Recycled Content project goal is to use 20 percent materials with recycled content (postconsumer plus \( \frac{1}{2} \) preconsumer) calculated by cost.
   3. Product Certificates for Credit MR 5: For products and materials required to comply with requirements for regional materials indicating location and distance from Project of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include statement indicating cost for each regional material and the fraction by weight that is considered regional.
      a. Regional Materials project goal is 30 percent regional materials, calculated by cost.

C. Shop Drawings: Submit shop drawings showing details of construction, and relationship of cladding/wall panels with adjacent construction including fastening and/or anchorage connection details, z-girt thermal break size and thickness.

1.04 INFORMATIONAL SUBMITTALS

A. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for each product.

B. Research/Evaluation Reports: For foam-plastic insulation, from ICC-ES.
1.05 QUALITY ASSURANCE

A. Surface-Burning Characteristics: As determined by testing identical products according to ASTM E 84 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Protect insulation materials from physical damage and from deterioration due to moisture, soiling, and other sources. Store inside and in a dry location. Comply with manufacturer’s written instructions for handling, storing, and protecting during installation.

B. Protect foam-plastic board insulation as follows:

1. Do not expose to sunlight except to necessary extent for period of installation and concealment.
2. Protect against ignition at all times. Do not deliver foam-plastic board materials to Project site before installation time.
3. Quickly complete installation and concealment of foam-plastic board insulation in each area of construction.

PART 2 - PRODUCTS

2.01 INSULATING MATERIALS

A. General: Provide insulating materials that comply with requirements and with referenced standards.

1. Preformed Units: Sizes to fit applications indicated; selected from manufacturer’s standard thicknesses, widths, and lengths.

2.02 FOAM-PLASTIC BOARD INSULATION

A. Extruded-Polystyrene Board Insulation (XPS): ASTM C 578, of type and minimum compressive strength indicated below, with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively, per ASTM E 84.

1. Manufacturers: Subject to compliance with requirements, :

   a. DiversiFoam Products.
   b. Dow Chemical Company (The).
   c. Owens Corning.

2. Type VI, 40 psi (276 kPa) for below grade insulation.
3. R-value: 5.0 per inch, unless noted otherwise.
4. Board Thickness: As indicated on Drawings.

B. Tape: Provide insulation manufacturer’s recommended board joint tape for sealing joints, seams and veneer tie penetrations through the insulation layer at exterior wall insulation.

C. Adhesive for Bonding Insulation: Product with demonstrated capability to bond insulation securely to substrates without damaging insulation and substrates.
PART 3 - EXECUTION

3.01 PREPARATION

A. Clean substrates of substances that are harmful to insulation or vapor retarders, including removing projections capable of puncturing vapor retarders, or that interfere with insulation attachment.

3.02 INSTALLATION, GENERAL

A. Comply with insulation manufacturer's written instructions applicable to products and applications indicated.

B. Install insulation that is undamaged, dry, and unsoiled and that has not been left exposed to ice, rain, or snow at any time.

C. Extend insulation to envelop entire area to be insulated. Cut and fit tightly around obstructions and fill voids with insulation. Remove projections that interfere with placement.

D. Provide sizes to fit applications indicated and selected from manufacturer's standard thicknesses, widths, and lengths. Apply single layer of insulation units to produce thickness indicated unless multiple layers are otherwise shown or required to make up total thickness.

E. Water-Piping Coordination: If water piping is located on inside of insulated exterior walls, coordinate location of piping to ensure that it is placed on warm side of insulation and insulation encapsulates piping.

F. Apply single layer of insulation to produce thickness indicated, unless multiple layers are otherwise shown or required to make up total thickness.

3.03 INSTALLATION OF BELOW-GRADE INSULATION

A. On vertical surfaces, set insulation units using manufacturer's recommended adhesive according to manufacturer's written instructions.

1. If not otherwise indicated, extend insulation a minimum of 36 inches (915 mm) below exterior grade line.

B. On horizontal surfaces, loosely lay insulation units according to manufacturer's written instructions. Stagger end joints and tightly abut insulation units.

1. If not otherwise indicated, extend insulation a minimum of 36 inches (915 mm) in from exterior walls.

3.04 PROTECTION

A. Protect installed insulation and vapor retarders from damage due to harmful weather exposures, physical abuse, and other causes. Provide temporary coverings or enclosures where insulation is subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.

END OF SECTION
1.01 GENERAL INFORMATION
A. Bidder: ________________________________________________
B. Project Name & #: BSU NORTH DINING FACILITY (#2017-023.01 NWD)
C. Project Location: Muncie, Indiana
D. Owner: Ball State University
E. Architect: CSO Architects, Inc
F. Construction Manager as Constructor: Shiel Sexton / Powers, A Joint Venture

1.02 CERTIFICATIONS AND BASE BID
A. Base Bid: The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, as prepared by CSO Architects, Inc. and the Architect’s consultants, having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of above-named Project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sum of Base Bid:

__________________________________________________________

_______________________________________________________

1.03 MINORITY / WOMEN / VETERAN BUSINESS ENTERPRISE PARTICIPATION
(Indicate more than one below if applicable)

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<th>MBE: 10%</th>
<th>WBE: 10%</th>
<th>VBE: 5%</th>
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<td>A. Indicate if your firm is a certified Minority Business Enterprise</td>
<td>___ Yes ___ No</td>
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<td>B. Indicate if your firm is a certified Women Business Enterprise</td>
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<td>C. Indicate if your firm is a certified Veteran Business Enterprise</td>
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<td>D. Please indicate participation below:</td>
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<td>a. MBE:</td>
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<td>b. WBE:</td>
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<td>c. VBE:</td>
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1.04 CONTRA CT BASE BID ITEMIZATION  
(for information only)

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<tr>
<td>Earthwork</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Remove excess spoils from others = 1,000 CY</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Erosion Control</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Water System- domestic &amp; fire service</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Sanitary System</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Storm System</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
</tbody>
</table>

TOTAL BASE BID (MUST MATCH 1.02A) $___________________
1.05 BID GUARANTEE

A. The undersigned Bidder agrees to execute a contract for this Work in the above amount and to furnish surety as specified within ten (10) days after a written Notice of Award, if offered within sixty (60) days after receipt of bids, and on failure to do so agrees to forfeit to Owner the attached cash, cashier's check, certified check, U.S. money order, or bid bond, as liquidated damages for such failure, in the following amount constituting five percent (5%) of the Total Base Bid amount above:

________________________________________________  Dollars ($______________)

B. In the event Shiel Sexton / Powers JV does not offer a Notice of Award within the time limits stated above, Owner will return to the undersigned the cash, cashier's check, certified check, U.S. money order, or bid bond.

1.06 TIME OF COMPLETION

A. The undersigned Bidder has received and reviewed specification section Project Schedule and hereby agrees that all work will be substantially complete in accordance with the same.

B. The undersigned Bidder proposes and agrees hereby to commence the Work of the Contract Documents on a date specified in a written Notice to Proceed to be issued by Shiel Sexton / Powers JV.

1.07 ACKNOWLEDGEMENT OF ADDENDA

A. The undersigned Bidder acknowledges receipt of and use of the following Addenda in the preparation of this Bid:

1. Addendum No. 1, dated 05/31/18
2. Addendum No. 2, dated 06/07/18

1.08 ALTERNATES

A. The following alternates are a part of this Bid. Indicate ‘Add’ or ‘Deduct’ by circling ‘Add’ or ‘Deduct’:

<table>
<thead>
<tr>
<th>Alt. No.</th>
<th>Description</th>
<th>ADD or DEDUCT</th>
<th>Total Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Add Payment &amp; Performance Bond</td>
<td>Add</td>
<td>$</td>
</tr>
</tbody>
</table>

1.09 CONTRACTOR'S LICENSE

The undersigned further states that it is a duly licensed contractor, for the type of work proposed, in Muncie, Indiana, and that all fees, permits, etc., pursuant to submitting this proposal have been paid in full.
1.10 SUBMISSION OF BID

Respectfully submitted this ____ day of ____________, 2017.

Submitted By: _______________________________
(Name of bidding firm or corporation)

Authorized Signature: _____________________________
(Handwritten signature)

Signed By: _______________________________
(Type or print name)

Title: _______________________________
(Owner/Partner/President/Vice President)

Witness By: _______________________________
(Handwritten signature)

Attest: _______________________________
(Handwritten signature)

By: _______________________________
(Type or print name)

Title: _______________________________
(Corporate Secretary or Assistant Secretary)

Street Address: _______________________________

City, State, Zip _______________________________

Phone: _______________________________

License No.: _______________________________

Federal ID No.: _______________________________

(Affix Corporate Seal Here)

END OF SECTION
1.01 GENERAL INFORMATION
A. Bidder: ________________________________________________
B. Project Name & #: BSU NORTH DINING FACILITY (#2017-023.01 NWD)
C. Project Location: Muncie, Indiana
D. Owner: Ball State University
E. Architect: CSO Architects, Inc.
F. Construction Manager as Constructor: Shiel Sexton / Powers, A Joint Venture

1.02 CERTIFICATIONS AND BASE BID
A. **Base Bid:** The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, as prepared by CSO Architects, Inc. and the Architect's consultants, having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of above-named Project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sum of **Base Bid:**

   ____________________________________________

   $______________________________________

1.03 MINORITY / WOMEN / VETERAN BUSINESS ENTERPRISE PARTICIPATION
* (Indicate more than one below if applicable)*

**Contract Goals:**

<table>
<thead>
<tr>
<th></th>
<th>MBE: 7%</th>
<th>WBE: 5%</th>
<th>VBE: 3%</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Indicate if your firm is a certified Minority Business Enterprise</td>
<td>___ Yes ___ No</td>
<td>If yes, please attach copy of certification</td>
<td></td>
</tr>
<tr>
<td>B. Indicate if your firm is a certified Women Business Enterprise</td>
<td>___ Yes ___ No</td>
<td>If yes, please attach copy of certification</td>
<td></td>
</tr>
<tr>
<td>C. Indicate if your firm is a certified Veteran Business Enterprise</td>
<td>___ Yes ___ No</td>
<td>If yes, please attach copy of certification</td>
<td></td>
</tr>
<tr>
<td>D. Please indicate participation below:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. MBE: $_____________________________</td>
<td>(______% of Base Bid)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. WBE: $_____________________________</td>
<td>(______% of Base Bid)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. VBE: $_____________________________</td>
<td>(______% of Base Bid)</td>
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<td></td>
</tr>
</tbody>
</table>
## 1.04 CONTRACT BASE BID ITEMIZATION
(for information only)

<table>
<thead>
<tr>
<th>Description</th>
<th>Labor</th>
<th>Material</th>
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</thead>
<tbody>
<tr>
<td>Mobilization</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Design &amp; Engineering</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Foundation Support Piers</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Slab Support Piers</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Rigid Piers</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
</tbody>
</table>

TOTAL BASE BID (MUST MATCH 1.02A) $___________________
1.05 BID GUARANTEE

A. The undersigned Bidder agrees to execute a contract for this Work in the above amount and to furnish surety as specified within ten (10) days after a written Notice of Award, if offered within sixty (60) days after receipt of bids, and on failure to do so agrees to forfeit to Owner the attached cash, cashier's check, certified check, U.S. money order, or bid bond, as liquidated damages for such failure, in the following amount constituting five percent (5%) of the Total Base Bid amount above:

______________________________ Dollars ($___________)

B. In the event Shiel Sexton / Powers JV does not offer a Notice of Award within the time limits stated above, Owner will return to the undersigned the cash, cashier's check, certified check, U.S. money order, or bid bond.

1.06 TIME OF COMPLETION

A. The undersigned Bidder has received and reviewed specification section Project Schedule and hereby agrees that all work will be substantially complete in accordance with the same.

B. The undersigned Bidder proposes and agrees hereby to commence the Work of the Contract Documents on a date specified in a written Notice to Proceed to be issued by Shiel Sexton / Powers JV.

1.07 ACKNOWLEDGEMENT OF ADDENDA

A. The undersigned Bidder acknowledges receipt of and use of the following Addenda in the preparation of this Bid:

1. Addendum No. 1, dated 05/31/18
2. Addendum No. 2, dated 06/07/18

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A. The following alternates are a part of this Bid. Indicate ‘Add’ or ‘Deduct’ by circling ‘Add’ or ‘Deduct’:

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<tbody>
<tr>
<td>1</td>
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<td>Add</td>
<td>$</td>
</tr>
</tbody>
</table>

1.09 CONTRACTOR'S LICENSE

The undersigned further states that it is a duly licensed contractor, for the type of work proposed, in Muncie, Indiana, and that all fees, permits, etc., pursuant to submitting this proposal have been paid in full.
1.10 SUBMISSION OF BID

Respectfully submitted this ____ day of ____________, 2017.

Submitted By: _______________________________
(Name of bidding firm or corporation)

Authorized Signature: _____________________________
(Handwritten signature)

Signed By: _______________________________
(Type or print name)

Title: _______________________________
(Owner/Partner/President/Vice President)

Witness By: _______________________________
(Handwritten signature)

Attest: _______________________________
(Handwritten signature)

By: _______________________________
(Type or print name)

Title: _______________________________
(Corporate Secretary or Assistant Secretary)

Street Address: _______________________________

City, State, Zip _______________________________

Phone: _______________________________

License No.: _______________________________

Federal ID No.: _______________________________

(Affix Corporate Seal Here)

END OF SECTION
1.01 GENERAL INFORMATION
A. Bidder: __________________________________________
B. Project Name & #: BSU NORTH DINING FACILITY   (#2017-023.01 NWD)
C. Project Location: Muncie, Indiana
D. Owner: Ball State University
E. Architect: CSO Architects, Inc
F. Construction Manager as Constructor: Shiel Sexton / Powers, A Joint Venture

1.02 CERTIFICATIONS AND BASE BID
A. Base Bid: The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, as prepared by CSO Architects, Inc. and the Architect’s consultants, having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of above-named Project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sum of Base Bid:

   $________________________________________________________

1.03 MINORITY / WOMEN / VETERAN BUSINESS ENTERPRISE PARTICIPATION
(Indicate more than one below if applicable)

<table>
<thead>
<tr>
<th>Contract Goals:</th>
<th>MBE: 10%</th>
<th>WBE: 10%</th>
<th>VBE: 5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Indicate if your firm is a certified Minority Business Enterprise</td>
<td>___ Yes ___No If yes, please attach copy of certification</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B. Indicate if your firm is a certified Women Business Enterprise</td>
<td>___ Yes ___No If yes, please attach copy of certification</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. Indicate if your firm is a certified Veteran Business Enterprise</td>
<td>___ Yes ___No If yes, please attach copy of certification</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D. Please indicate participation below:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. MBE: $_______________________ (______% of Base Bid)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. WBE: $_______________________ (______% of Base Bid)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. VBE: $_______________________ (______% of Base Bid)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 1.04 CONTRACT BASE BID ITEMIZATION  
*(for information only)*

<table>
<thead>
<tr>
<th>Description</th>
<th>Labor</th>
<th>Material</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobilization</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Foundation excavation, backfill &amp; excess spoil removal</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Foundation concrete, including all Loading Dock work</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Shearwalls</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Slab-on-grade – colored concrete</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Slab-on-grade – other areas</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Slab-on-deck – 2nd Floor</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Slab-on-deck – Penthouse area</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Pan stair concrete fill</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Waterproofing – elevator pit</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Perimeter insulation – foundation walls &amp; slab</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Concrete sealer – colored concrete only</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
</tbody>
</table>

**TOTAL BASE BID (MUST MATCH 1.02A)** $___________________
1.05 BID GUARANTEE

A. The undersigned Bidder agrees to execute a contract for this Work in the above amount and to furnish surety as specified within **ten (10)** days after a written Notice of Award, if offered within **sixty (60)** days after receipt of bids, and on failure to do so agrees to forfeit to Owner the attached cash, cashier's check, certified check, U.S. money order, or bid bond, as liquidated damages for such failure, in the following amount constituting five percent (5%) of the Total Base Bid amount above:

________________________________________________  Dollars ($______________)

B. In the event Shiel Sexton / Powers JV does not offer a Notice of Award within the time limits stated above, Owner will return to the undersigned the cash, cashier's check, certified check, U.S. money order, or bid bond.

1.06 TIME OF COMPLETION

A. The undersigned Bidder has received and reviewed specification section Project Schedule and hereby agrees that all work will be substantially complete in accordance with the same.

B. The undersigned Bidder proposes and agrees hereby to commence the Work of the Contract Documents on a date specified in a written Notice to Proceed to be issued by Shiel Sexton / Powers JV.

1.07 ACKNOWLEDGEMENT OF ADDENDA

A. The undersigned Bidder acknowledges receipt of and use of the following Addenda in the preparation of this Bid:

1. Addendum No. 1, dated __________ 05/31/18
2. Addendum No. 2, dated __________ 06/07/18

1.08 ALTERNATES

A. The following alternates are a part of this Bid. **Indicate ‘Add’ or ‘Deduct’ by circling ‘Add’ or ‘Deduct’**:

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<td>Add</td>
<td>$</td>
</tr>
</tbody>
</table>

1.09 CONTRACTOR'S LICENSE

The undersigned further states that it is a duly licensed contractor, for the type of work proposed, in Muncie, Indiana, and that all fees, permits, etc., pursuant to submitting this proposal have been paid in full.
1.10 SUBMISSION OF BID

Respectfully submitted this ____ day of ____________, 2017.

Submitted By: _______________________________
(Name of bidding firm or corporation)

Authorized Signature: _______________________________
(Handwritten signature)

Signed By: _______________________________
(Type or print name)

Title: _______________________________
(Owner/Partner/President/Vice President)

Witness By: _______________________________
(Handwritten signature)

Attest: _______________________________
(Handwritten signature)

By: _______________________________
(Type or print name)

Title: _______________________________
(Corporate Secretary or Assistant Secretary)

Street Address: _______________________________

City, State, Zip _______________________________

Phone: _______________________________

License No.: _______________________________

Federal ID No.: _______________________________

(Affix Corporate Seal Here)

END OF SECTION
SECTION 00 41 04 – BID FORM

CONTRACT NO. 04 – STRUCTURAL STEEL & STAIRS

1.01 GENERAL INFORMATION
A. Bidder: __________________________________________________________
B. Project Name & #: BSU NORTH DINING FACILITY (#2017-023.01 NWD)
C. Project Location: Muncie, Indiana
D. Owner: Ball State University
E. Architect: CSO Architects, Inc
F. Construction Manager as Constructor: Shiel Sexton / Powers, A Joint Venture

1.02 CERTIFICATIONS AND BASE BID
A. Base Bid: The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, as prepared by CSO Architects, Inc. and the Architect’s consultants, having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of above-named Project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sum of Base Bid:

                                                   $________________________

1.03 MINORITY / WOMEN / VETERAN BUSINESS ENTERPRISE PARTICIPATION
(Indicate more than one below if applicable)

Contract Goals:    MBE: 7%          WBE: 5%          VBE: 3%

A. Indicate if your firm is a certified Minority Business Enterprise
   ___ Yes ___ No If yes, please attach copy of certification

B. Indicate if your firm is a certified Women Business Enterprise
   ___ Yes ___ No If yes, please attach copy of certification

C. Indicate if your firm is a certified Veteran Business Enterprise
   ___ Yes ___ No If yes, please attach copy of certification

D. Please indicate participation below:
   a. MBE: $_______________________ (______% of Base Bid)
   b. WBE: $_______________________ (______% of Base Bid)
   c. VBE: $_______________________ (______% of Base Bid)

06/07/2018      CSO ARCHITECTS, INC.  1
### 1.04 CONTRACT BASE BID ITEMIZATION
*(for information only)*

<table>
<thead>
<tr>
<th>Description</th>
<th>Labor</th>
<th>Material</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobilization</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Columns</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>2nd Floor Framing</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Roof Framing</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Screen Wall Framing-galvanized</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Fall Protection System Support Framing</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Cladding Backup</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Security Gate Support Framing</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Embedded Items &amp; LooseLintels-plates, angles, anchor bolts, etc.</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Deck Type A</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Deck Type C</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Deck Type D</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Monumental Stair A Framing</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Stair B &amp; Railings</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Stair C &amp; Railings</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Penthouse Stair D &amp; Railings</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Tunnel Reinforcing, Hatch Modifications &amp; Exhaust Cover Modifications-all associated work</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>$</td>
<td>$</td>
<td>$</td>
</tr>
</tbody>
</table>

**TOTAL BASE BID (MUST MATCH 1.02A)** $___________________

Confirmation per Section 05 12 00, Part 1.06-A-2 that Structural Steel Fabricator is AISC Certified.

**Authorized Signature:** _____________________________ __________________________

(Handwritten signature)
1.05 BID GUARANTEE

A. The undersigned Bidder agrees to execute a contract for this Work in the above amount and to furnish surety as specified within ten (10) days after a written Notice of Award, if offered within sixty (60) days after receipt of bids, and on failure to do so agrees to forfeit to Owner the attached cash, cashier's check, certified check, U.S. money order, or bid bond, as liquidated damages for such failure, in the following amount constituting five percent (5%) of the Total Base Bid amount above:

________________________________________________  Dollars ($______________)

B. In the event Shiel Sexton / Powers JV does not offer a Notice of Award within the time limits stated above, Owner will return to the undersigned the cash, cashier's check, certified check, U.S. money order, or bid bond.

1.06 TIME OF COMPLETION

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A. The following alternates are a part of this Bid. Indicate ‘Add’ or ‘Deduct’ by circling ‘Add’ or ‘Deduct’:

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</tr>
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1.09 CONTRACTOR'S LICENSE

The undersigned further states that it is a duly licensed contractor, for the type of work proposed, in Muncie, Indiana, and that all fees, permits, etc., pursuant to submitting this proposal have been paid in full.
1.10 SUBMISSION OF BID

Respectfully submitted this ____ day of ____________, 2017.

Submitted By: _______________________________
(NAME OF BIDDING FIRM OR CORPORATION)

Authorized Signature: _____________________________
(HANDWRITTEN SIGNATURE)

Signed By: _______________________________
(TYPE OR PRINT NAME)

Title: _______________________________
(OWNER/PARTNER/PRESIDENT/VICE PRESIDENT)

Witness By: _______________________________
(HANDWRITTEN SIGNATURE)

Attest: _______________________________
(HANDWRITTEN SIGNATURE)

By: _______________________________
(TYPE OR PRINT NAME)

Title: _______________________________
(CORPORATE SECRETARY OR ASSISTANT SECRETARY)

Street Address: _______________________________

City, State, Zip _______________________________

Phone: _______________________________

License No.: _______________________________

Federal ID No.: _______________________________

(AFFIX CORPORATE SEAL HERE)

END OF SECTION
CONTRACT NO. 05 – SHEETING & SHORING

1.01 GENERAL INFORMATION
   A. Bidder: _____________________________________________
   B. Project Name & #: BSU NORTH DINING FACILITY (#2017-023.01 NWD)
   C. Project Location: Muncie, Indiana
   D. Owner: Ball State University
   E. Architect: CSO Architects, Inc
   F. Construction Manager as Constructor: Shiel Sexton / Powers, A Joint Venture

1.02 CERTIFICATIONS AND BASE BID
   A. Base Bid: The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, as prepared by CSO Architects, Inc. and the Architect's consultants, having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of above-named Project, according to the requirements of the Procurement and Contracting Documents, for the stipulated sum of Base Bid:

   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
   $______________________________________________________________

1.03 MINORITY / WOMEN / VETERAN BUSINESS ENTERPRISE PARTICIPATION
   (Indicate more than one below if applicable)

   Contract Goals:    MBE: 7%    WBE: 5%    VBE: 3%

   A. Indicate if your firm is a certified Minority Business Enterprise
      ___ Yes ___ No If yes, please attach copy of certification

   B. Indicate if your firm is a certified Women Business Enterprise
      ___ Yes ___ No If yes, please attach copy of certification

   C. Indicate if your firm is a certified Veteran Business Enterprise
      ___ Yes ___ No If yes, please attach copy of certification

   D. Please indicate participation below:
      a. MBE: $_______________________ (______% of Base Bid)
      b. WBE: $_______________________ (______% of Base Bid)
      c. VBE: $_______________________ (______% of Base Bid)
### 1.04 CONTRACT BASE BID ITEMIZATION

*(for information only)*

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<thead>
<tr>
<th>Description</th>
<th>Labor</th>
<th>Material</th>
<th>Total</th>
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<tbody>
<tr>
<td>Mobilization</td>
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<td>$</td>
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<tr>
<td>Excavation &amp; Backfill</td>
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<td>$</td>
<td>$</td>
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<tr>
<td>Sheeting &amp; Shoring System</td>
<td>$</td>
<td>$</td>
<td>$</td>
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<tr>
<td>Miscellaneous</td>
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**TOTAL BASE BID (MUST MATCH 1.02A)**  $___________________
1.05 BID GUARANTEE

A. The undersigned Bidder agrees to execute a contract for this Work in the above amount and to furnish surety as specified within ten (10) days after a written Notice of Award, if offered within sixty (60) days after receipt of bids, and on failure to do so agrees to forfeit to Owner the attached cash, cashier's check, certified check, U.S. money order, or bid bond, as liquidated damages for such failure, in the following amount constituting five percent (5%) of the Total Base Bid amount above:

________________________________________________ Dollars ($______________)

B. In the event Shiel Sexton / Powers JV does not offer a Notice of Award within the time limits stated above, Owner will return to the undersigned the cash, cashier's check, certified check, U.S. money order, or bid bond.

1.06 TIME OF COMPLETION

A. The undersigned Bidder has received and reviewed specification section Project Schedule and hereby agrees that all work will be substantially complete in accordance with the same.

B. The undersigned Bidder proposes and agrees hereby to commence the Work of the Contract Documents on a date specified in a written Notice to Proceed to be issued by Shiel Sexton / Powers JV.

1.07 ACKNOWLEDGEMENT OF ADDENDA

A. The undersigned Bidder acknowledges receipt of and use of the following Addenda in the preparation of this Bid:

1. Addendum No. 1, dated 05/31/18
2. Addendum No. 2, dated 06/07/18

1.08 ALTERNATES

A. The following alternates are a part of this Bid. Indicate ‘Add’ or ‘Deduct’ by circling ‘Add’ or ‘Deduct’:

<table>
<thead>
<tr>
<th>Alt. No.</th>
<th>Description</th>
<th>ADD or DEDUCT</th>
<th>Total Amount</th>
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<tr>
<td>1</td>
<td>Add Payment &amp; Performance Bond</td>
<td>Add</td>
<td>$</td>
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1.09 CONTRACTOR'S LICENSE

The undersigned further states that it is a duly licensed contractor, for the type of work proposed, in Muncie, Indiana, and that all fees, permits, etc., pursuant to submitting this proposal have been paid in full.
1.10 SUBMISSION OF BID

Respectfully submitted this ___ day of ____________, 2017.

Submitted By: _______________________________
( Name of bidding firm or corporation)

Authorized Signature: _______________________________
( Handwritten signature)

Signed By: _______________________________
( Type or print name)

Title: _______________________________
( Owner/Partner/President/Vice President)

Witness By: _______________________________
( Handwritten signature)

Attest: _______________________________
( Handwritten signature)

By: _______________________________
( Type or print name)

Title: _______________________________
( Corporate Secretary or Assistant Secretary)

Street Address: _______________________________

City, State, Zip _______________________________

Phone: _______________________________

License No.: _______________________________

Federal ID No.: _______________________________

(Affix Corporate Seal Here)

END OF SECTION
The treatment system shall be capable of capturing and retaining fine silt and sand size particles. Analysis of separation module shall convey the peak on-line flow rates of up to 18 cfs without causing upstream limitations.

A. 6. Larger sediment storage capacity may be provided with a deeper sump depth.
B. 2. The diameter of the inlet & outlet pipes may be no more than 24".
C. 1. General Arrangement drawings only. Contact Hydro International for site specific fabrication drawings.

GENERAL NOTES:

- VARIABLE 0° - 360°
- ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ELEVATION, SEE DRAWING NO. 7001-110-065
- UNIFORMLY IN ACCORDANCE WITH ASTM D2321.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212
- SEE DRAWING NO. 7001-110-065
- MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED.
- MATERIALS
  - GALVANIZED STEEL RAIL AS MANUFACTURED BY ACO
  - MADE FROM POLYMER CONCRETE WITH A CAST-IN MOLD
  - THE CATCH BASIN SHALL BE ACO DRAIN K3-903G SERIES
  - K300 KLASSIKDRAIN - LOAD CLASS D
  - MATERIALS
    - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05,
    - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05,
    - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ELEVATION, SEE DRAWING NO. 7001-110-065
    - EXACT INTEGRATED DUCTILE IRON FRAME "F" OR "C" SIZE PIPE

- EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT THE CATCH BASIN AND THE CONCRETE SURROUND.
- IT IS NECESSARY TO ENSURE THE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR THE EXISTING GROUND CONDITIONS.
- MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. GRATE SHALL BE HELD IN PLACE WITH THE QUICKLOK SYSTEM. CATCH BASIN, TRENCH CHANNEL, BUCKET SHALL ACCEPT 12" ACO DRAIN TRENCH DRAIN SECTION, QUICKLOK GRATE, SHORT BASE AND TRASH CAN REMOVAL SYSTEM.

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19. "DBE" INDICATES DECK BEARING ELEVATION.
20. "CBO" INDICATES COLUMN BELOW ONLY.
21. INDICATES FLOOR DRAIN. PROVIDE TOP OF DRAIN FLUSH OR DEEPER THAN SURROUNDING CONCRETE.
22. INDICATES FLOOR DRAIN. PROVIDE TOP OF DRAIN WITH ELMER'S ADHESIVE TURPENTINE MIXED CONCRETE RODS AND BASE PLATE DETAILS.
23. SEE MEP AND ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN DETAIL.
24. INDICATES OPENING IN SLAB. COORDINATE DIMENSIONS AND POSITION BETWEEN WALLS AND FLOOR.
25. INDICATES OPENING IN SLAB. COORDINATE DIMENSIONS AND RECESS REQUIREMENTS. SEE DRAWING S335 FOR DETAILS.
26. C=X" INDICATES BEAM CAMBER.
27. (X) INDICATES NUMBER OF HEADED STUD SHEAR CONNECTORS.
28. INDICATES SPAN OF 2", 20 GAGE (MINIMUM) METAL ROOF DECK. SEE OVERALL PLAN FOR FINISH REQUIREMENTS.
29. INDICATES COMPOSITE FLOOR DECK (TOTAL SLAB THICKNESS). SEE S335 SERIES DRAWINGS FOR COMPOSITE SLAB REINFORCING DETAILS.
30. INDICATES BEAM TO COLUMN MOMENT CONNECTION. SEE DRAWING S510 FOR FRAMING AROUND LOCATIONS AND RECESS REQUIREMENTS. SEE DRAWING S335 FOR TYPICAL DETAIL.
31. SEE S335 SERIES DRAWINGS FOR TYPICAL BRACING CONNECTION DETAILS.
32. SEE S335 SERIES DRAWINGS FOR TYPICAL DETAILS.
33. SEE S370 SERIES FOR TYPICAL BRACING CONNECTION CRITERIA, AND FLOOR LOAD CAPACITIES.
34. SEE S370 SERIES DRAWINGS FOR CONNECTION DETAIL.
35. SEE S320 FOR TYPICAL CAST IN PLACE CONCRETE ROADS AND BASE PLATE DETAILS.
36. INDICATES LACK OF DETAIL AROUND OPENING.
37. INDICATES SPAN OF 2", 20 GAGE (MINIMUM) CONCRETE SLAB PLACED ON 2", 20 GAGE (MINIMUM) METAL ROOF DECK. SEE OVERALL PLAN FOR FINISH.
38. K-SERIES JOIST SEAT DEPTH = 2 1/2", UNO.
39. SEE S521 FOR TYPICAL FRAMING DETAILS.
40. RA INDICATES ROOF ANCHOR. SEE S521 FOR TYPICAL FRAMING DETAILS.