

ADDENDUM

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|---------------------|--------------------------------|-------------------|---------|
| PROJECT | BCH Helipad & Roof Replacement | PROJECT # | 24003 |
| OWNER | Boone County Hospital | DATE | 6-21-24 |
| LETTING DATE | 07-02-24 | ADDENDUM # | 01 |

TO ALL HOLDERS OF DRAWINGS AND PROJECT MANUALS

This addendum is issued to incorporate the following changes in the drawings and project manual. For bids to be considered, this addendum must be acknowledged by so indicating on the Form of Bid.

Bidders shall make the following corrections or additions to the biddings documents. These items shall supersede, modify, and/or change all statements or drawings to the contrary in the drawings and project manual and shall take precedence over these documents. Bidders shall base their bid on the drawings and project manual and as modified by the changes herein stated.

This addendum consist of (# of pages)

| Text | Supplemental Drawings | | Project Manual | Total Pages |
|------|-----------------------|-------|----------------|-------------|
| | 30" x 42" | Other | | |
| 4 | - | - | 23 | 27 |

REVISIONS

1 Prior Addenda

| Item # | Add # | Add Item # | Attachment | Description of Change |
|--------|-------|------------|------------|-----------------------|
| 1.1 | N/A | N/A | N/A | N/A |

2 Architectural

Project Manual Changes

| Item # | Sheet/Section | Detail/Paragraph | Attachment | Description of Change |
|--------|---------------|------------------|------------|---|
| 2.1 | 00 80 00 | Line 2.) | 00 80 00 | REVISE verbiage to indicate that a spotter is not acceptable per Graham's standard. |
| 2.2 | 00 80 00 | Line 7.) | 00 80 00 | REVISE Submittals changed from 80 to 30 days. |
| 2.3 | 00 80 00 | Line 8.) | 00 80 00 | REVISE Closeouts changed from 60 to 30 days. |
| 2.4 | 00 80 00 | Line 14.) | 00 80 00 | REVISE Verbiage to indicate rates for clean-up back charge. "Any additional cleanup will be tracked and billed back as applicable by the CM at \$130/hr for supervision and \$80/hr for labor." |
| 2.5 | 00 80 01 | Title Block | 00 80 01 | REVISE Bid Package name for clarity, now reads "Concrete Slab Helipad and Walkway". |
| 2.6 | 00 80 01 | Line 15.) | 00 80 01 | REVISE Verbiage now reads: "Include full depth saw-cutting as necessary for the demolition and removal of the concrete pad and walkway. Saw cutting to be wet or |

| | | | | |
|------|----------|------------|----------|--|
| | | | | vacuum cut as necessary and specific precautions are to be taken to not over-cut.” |
| 2.7 | 00 80 02 | Line 33.) | 00 80 02 | REVISE verbiage to indicate duration of flagging. “This contractor to review safety requirements above. This package to supply flagging around the entire scope of work for the use of all trades, for the full duration of the construction project.” |
| 2.8 | 00 80 02 | Line 36.) | 00 80 02 | ADD the following verbiage to clarify the responsibility of the contractor to supply safety means/methods. “This package is responsible for supplying all means of engineered controls of fall protection including but not limited to, D-Rings, Raptor Carts, and other Tie-off Points.” |
| 2.9 | 07 21 00 | - | 07 21 00 | REPLACE section in its entirety with one found in this addendum. Revisions are marked throughout. |
| 2.10 | 07 54 00 | 2.01.2 | N/A | REVISE line #2 to read Basis of Design: Elevate/Holcim, UltraPly TPO: www.holcimelevate.com/us-en |
| 2.11 | 07 54 00 | 2.05.B.1.a | N/A | REVISE Polyisocyanurate Board Insulation Classification to read: <ul style="list-style-type: none"> a. Type II: Fibrous Felt or Glass Fiber Mat, Both Sides b. Compressive Strength: Grade 2 – 20 psi, minimum |
| 2.12 | 07 54 00 | 2.07.B | N/A | Remove 2.07.B from the spec regarding Insulation Joint Tape. |
| 2.13 | 07 54 00 | 2.06.A.10 | N/A | REMOVE Elevate: SkyScape Ballast Paver from specification. ADD Wausau, Estate II HNBF 30” x 30” paver w/ #5A Terra-Tab to list of acceptable manufacturers. Fully Adhere with 3M Scotch-Weld Pedestal Adhesive or approved equal. |
| 2.14 | 07 54 00 | 2.06.A | N/A | REVISE the following: <ul style="list-style-type: none"> 1. Material: concrete 5. Thickness: 2 ¾” |
| 2.15 | 07 54 00 | 3.04 | N/A | Revise section to read: Cover Board Insulation <ul style="list-style-type: none"> A. Cover Boards: Mechanically fasten cover boards in accordance with roof manufacturer’s instructions and to meet wind warranty performance requirements (90 mph) specified. Verify the compatibility and strength of fasteners with the hollow-core plank roof deck. Minimum attachment rates are as follows. Perimeter and corner zones widths are 8 feet wide |

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|--|--|--|--|---|
| | | | | B. 1) Field of roof area: 12 fasteners and insulation plates per 4'x8' board C. 2) Perimeter of roof area: 18 fasteners and insulation plates per 4'x8' board D. 3) Corner of roof area: 32 fasteners and insulation plates per 4'x8' board |
|--|--|--|--|---|

Drawing Changes

| Item # | Sheet/ Section | Detail/ Paragraph | Attachment | Description of Change |
|--------|-------------------|----------------------|------------|-----------------------|
| 2.1 | - | - | - | - |

3 Structural

Project Manual Changes

| Item # | Sheet/ Section | Detail/ Paragraph | Attachment | Description of Change |
|--------|-------------------|----------------------|------------|-----------------------|
| 3.1 | - | - | - | - |

Drawing Changes

| Item # | Sheet/ Section | Detail/ Paragraph | Attachment | Description of Change |
|--------|-------------------|----------------------|------------|-----------------------|
| 3.2 | - | - | - | - |

4 Mechanical

Project Manual Changes

| Item # | Sheet/ Section | Detail/ Paragraph | Attachment | Description of Change |
|--------|-------------------|----------------------|------------|-----------------------|
| 4.1 | - | - | - | - |

Drawing Changes

| Item # | Sheet/ Section | Detail/ Paragraph | Attachment | Description of Change |
|--------|-------------------|----------------------|------------|-----------------------|
| 4.2 | - | - | - | - |

5 Electrical

Project Manual Changes

| Item # | Sheet/ Section | Detail/ Paragraph | Attachment | Description of Change |
|--------|-------------------|----------------------|------------|-----------------------|
| 5.1 | - | - | - | - |

Drawing Changes

| Item # | Sheet/ Section | Detail/ Paragraph | Attachment | Description of Change |
|--------|-------------------|----------------------|------------|-----------------------|
| 5.2 | - | - | - | - |

6 Substitution Requests

| Item # | Sheet/ Section | Detail/ Paragraph | Attachment | Description of Change |
|--------|-------------------|----------------------|------------|-----------------------|
| 6.1 | - | - | - | - |

End of Addendum

Submitted By

Heidi Willis

Heidi Willis, AIA, WELLAP

SECTION 00 8000 – BID PACKAGE #00

Bid Package 00: General Requirements

The following general provisions **shall apply to all bid packages.**

Furnish complete all necessary labor, materials, office and field supervision, insurance, tools, equipment, layout, hoisting, rigging, shop drawings, submittals, permits, licenses and fees necessary to complete the work outlined below. Include all shift pay, overtime, weekend and holiday pay to complete the work in the scheduled durations shown in the project schedule in Specifications.

Work that is not specifically shown, listed or detailed in the Contract Documents, but necessary for a complete system and could be reasonably inferred by the nature of the scope of work shall be included in this bid. In the event there is a contradiction in the plans or specification, request clarification or assume the more costly option.

All work in this Bid Package shall be provided in accordance with OSHA regulations and applicable state and local codes. Provide proof of all training and certificates required and provide written safety and fall protection programs. **This project is participating in the OSHA Partnership; all employees on site will participate fully including Monday safety meetings and monthly third-party safety job site walk-throughs.**

1. The general construction **building permit** will be applied for and paid for by the Construction Manager. Each Prime Contractor shall apply for and pay for any and all permits required to complete their specific bid package scope of work. Include all permits, tap fees, development fees, etc. that may be charged by the utility company, city, county, state and any other agency having jurisdiction. Copies of all permits must be provided to the Construction Manager for record.
2. All contractors that have scope of work that is going to be completed outside of flagging must complete the scope of work with full OSHA compliant fall protection. A spotter system will not be considered adequate for Graham Construction's fall protection policy. Adequate engineered controls must be implemented when working outside of flagged areas (D-Rings, Raptor Carts, etc.) (ADD #1)
3. All contractors are to include any and all inflationary/material escalation costs to complete the project in their bids.
4. After bid day, no change orders will be accepted due to inflation or material escalation.
5. Dress code: each Prime Contractor, Subcontractor, Sub-Subcontractor, etc. shall ensure that each worker has the following and is worn at all times. The Construction Manager has the right to ease the requirements at their discretion.
 - a. Hard hats, safety glasses, work boots/shoes meeting OSHA requirements.
 - b. Gloves are required for to be worn while performing work.

- c. Pants (no shorts).
 - d. Sleeved shirt.
6. Construction employee vehicle parking in the hospital parking lot(s) is strictly prohibited. Limited parking will be provided for Prime Contractors in the staging area. See Construction Manager's representative for availability. Job Trailers are not allowed to be stationed on site or in the designated parking lot provided, unless coordinated with the Construction Manager, limited space is available.
 7. Submittals 30 days from contract execution or to otherwise not impact the project schedule. **(ADD #1)**
 8. Closeouts 30 days prior to substantial or to otherwise not impact the project schedule. **(ADD #1)**
 9. Construction Manager may request proof of order/procurement and contractor is required to provide.
 10. Contractors required to fill out JHA's and construction manager may request to receive these.
 11. All prime contractors are responsible to keep updated with project information through Procore
 12. All prime contractors required to submit RFI's to Procore on their own.
 13. All contractors on site must be present in schedule/foreman's meeting.
 14. Everyone is required to do their own cleanup typical to their scope of work. Any additional cleanup will be tracked and billed back as applicable by the CM at \$130/hr for supervision and \$80/hr for labor. **(ADD #1)**
 15. Everyone is required to do their own snow removal as required to continue their scope of work.
 16. Prior to starting work, all workers must attend a Site Safety Orientation located in the Graham trailer to go over hospital policies and safety requirements and receive a hard hat sticker before they can enter the jobsite to work or deliver material for use by installers. Please coordinate with Graham when new employees arrive on site. All workers will also be badged by the hospital and must keep on them at all times while on site.
 17. Each Contractor is responsible for following, at minimum, all safety policies as outlined by Graham in the Site Orientation as well as in the Site-Specific Safety manual.
 18. Each Contractor shall follow the JHA (Job Hazard Analysis) Policy outlined in the Site-Specific Safety Manual and Bid Package 01 5800 CONSTRUCTION MANAGER SAFETY POLICY.

19. The hospital need to remain in operation 24/7, the hospital can request work be shut down at any time for noise, vibration, or any inconvenience to their everyday operation. Coordinate disruptive work with the Construction Manager and give adequate notice for all shutdowns and inconvenient work. Work causing noise, vibration, or other interruption needs to be coordinated at least 72 hours before the start of work and could be requested to happen after hours. This requested afterhours work will not be an additional cost to the project.
20. The jobsite and staging areas are limited for space. Material will need to be delivered as required for the work to occur as stocking of material for the entire project will not be available. Delivery hours will be determined by the hospital, and then the Construction Manager will coordinate these hospital hours with the Prime Contractor. Transporting material to and from this location is the responsibility of each contractor. The Prime Contractors are responsible for receiving all deliveries, unloading, and moving of materials as it relates to their contract scope. All deliveries must be coordinated and scheduled with the Construction Manager.
21. All demolition trash, debris, and material transported through the existing hospital will need to be covered. Contractor to provide dust control measures so trash carts' wheels and anyone's foot traffic won't track dust out of the construction areas.
22. Step-Up Scaffolds will not be allowed for use of any type on the jobsite. Contractors attempting to use step-up scaffolds for installation or storage of material will be required to stop work until scaffolds are removed from site and a safer alternative is acquired.
23. No Smoking is allowed on site, except in Designated Smoking Areas, which will be outlined in the Contractor's required Orientation. Contractors found smoking outside of designated areas will be removed from site immediately.
24. Where work occurs in existing areas/rooms that have finishes to remain, install poly and/or other means to protect existing cabinetry, equipment and room finishes.
25. All work above ceilings where those ceilings are not shown to be removed and replaced in the Contract Documents will need to be removed and replaced. This note applies to phasing and scheduling as well. For any work that occurs above ceilings before or after those ceilings get replaced because of phasing, each contractor will need to remove and replace ceilings as needed to do the work and will be responsible for any damages incurred.
26. Take adequate safety precautions to protect patients, visitors, hospital staff and other construction workers as needed or required by OSHA requirements. Coordinate with the Construction Manager and Owner when closing an occupied area for exploratory and/or construction activities.

27. Each Prime Contractor is responsible for providing fresh, clean, potable water for their workers and workers of their subcontractors and sub-subcontractors per OSHA requirements. Each contractor must also have 1st AID kits readily available on site for their workers and subcontractors per OSHA requirements.
28. Each Prime Contractor shall restore all public and private land disturbed by their bid package to the original condition.
29. Existing streets and roadways to and from the site shall remain free from damage by work performed by each Contractor. Repair any damage caused by this contractor scope to existing public roadways at no additional cost to the Owner. This applies to the public improvement roads on the project site. Final discretion of responsible parties will be determined by the Construction Manager.
30. Locate and protect all existing utilities to remain. Confirm locations prior to demolition and provided temporary utilities as required. When existing utilities are in the work area they shall be pot-holed to located.
31. Provide and maintain all barricades required to protect the public and workers. Barricades will remain in place until work by all bid packages is complete. Remove barricades after work is complete. Barricades shall clearly mark and block the hazards present and keep the public and other workers safe from harm.
32. Each Prime Contractor is responsible for protecting their work until acceptance by the owner. Each Prime Contractor is responsible for respecting the work completed by all other Prime Contractors and shall be responsible for replacing anything damaged.
33. Each Prime Contractor shall provide **daily** jobsite clean-up for debris and dust generated by the installation of their scope of work. Haul debris to the dumpster provided by the Construction Manager. **Daily** jobsite clean-up shall consist of all prime contractor's employees cleaning the work area for at least 30 minutes before leaving.
34. All extension cords shall be rolled up and checked for cuts or defects at the end of each workday. Damaged cords or cords with missing ground pins will be destroyed and removed from site at contractor's expense.
35. Each Prime Contractor shall provide all layout and surveying as required to complete their scope of work.

36. The cost of testing and inspections shall be paid for by the Owner as required by the Contract Documents. All testing and inspections shall be called for by each Prime Contractor and tests shall be coordinated with the Construction Manager. Costs of retesting due to failed tests will be the responsibility of the Prime Contractor.
37. Each Prime Contractor is responsible for cutting, protecting and covering penetrations in the roof, slab on grade and walls to install their work. Follow all OSHA guidelines for covering, securing and marking holes. Make the Construction Manager aware of all penetrations, holes, etc. prior to cutting or uncovering.
38. All work to be completed in accordance with the schedule and phasing included in the specification section and as noted in the Contract Documents. The contractor shall include additional mobilizations as required to meet the schedule and phasing as noted.
39. The cost to move materials shall be included. Each prime contractor is responsible for storage and protection of their materials prior to and following installation until accepted at substantial completion.
40. As applicable, each Contractor shall provide, maintain and empty a concrete wash-out container for use of any concrete, grout, mortar, etc. generated by their scope of work. The concrete wash-out spoils shall be disposed off-site in a legal manner. Coordinate all aspects of the concrete wash-out with Construction Manager. NOTE: Any other means of concrete wash out shall be approved by the Construction Manager 10 days prior to commencement of concrete or other cementitious work.
41. Each prime contractor is responsible for always providing a Superintendent or Foreman on site while workers are on site. Same aspect applies to weekend work that is requested by said contractor.
42. Each Prime Contractor is responsible to have a minimum of one English speaking supervisor on-site during the duration of the contractor's work.
43. All work to be completed in accordance with the schedule included in specification section 01 1520 and as noted in the Contract Documents. The contractor must include additional mobilizations as needed to meet the schedule as noted.
44. Include taking any deliveries related to this bid package, and moving materials and clean-up as required.
45. The existing hospital will remain in everyday operation. The hospital can request work be shutdown at any time for noise, vibration, or any inconvenience to their everyday operation. Coordinate when this work can occur with the Construction Manager. Give adequate notice for all shutdowns and inconvenient work to the Construction Manager.

46. Each Prime Contractor is responsible to supervise all subcontractors and suppliers under their contract. If the Construction Manager must supervise or coordinate a Prime Contractors workers or subcontractors, the Construction Manager will charge \$130 per hour.
47. Each Prime Contractor is responsible for replacing anything they damage such as spray fireproofing, building components, etc that are compromised by their work
48. Each Prime Contractor is responsible to provide fire and acoustical caulking of any penetrations made by their scope of work per wall types and ratings. Patch any openings made by this bid package as needed for penetrations in existing walls, floors, and ceilings.
49. The use of internal combustion type equipment inside the building is not allowed without prior approval by the Construction Manager at least 1 week prior to commencement of the work. For any internal combustion equipment used, provide carbon monoxide/carbon dioxide scrubbers on the equipment.
50. Coordinate shop drawings and installation with other trade contractors. All work shall be installed to provide the maximum benefit to the Owner and allow for full access to equipment requiring maintenance.
51. Each Contractor is to fill out a hot work permit prior to commencement of work and must be filled out weekly as they expire. Please see construction manager for permits and location to post permit.
52. All materials within proximity to the helicopter landing pad are required to be tied down before any air lifts. Coordinate with Construction Manager and hospital.
53. Prime Contractors are responsible for providing a fire watch on a continuous basis if they need to shut the Fire Protection system down any longer than 4 hours until the system is active.
54. Prime Contractors are responsible for providing a fire watch for any hot work requiring the Fire Protection system being shut down and fill out appropriate paperwork.
55. Prime Contractors are required to follow all safety requirements implemented by the Construction Manager. This includes but not limited to: Construction Manager Site Specific Safety Plan, PPE requirements, Job Hazard Analysis Forms (JHAs), fall protection requirements, safety orientation, owner required safety orientation, and owner safety requirements.

- a. *JHA forms and proper training on filling out each form will be provided by the Construction Manager.*
56. This project will utilize Last Planner Construction Schedule tools to plan the work, update the schedule, and monitor progress. It is a requirement to provide all paperwork and attend all meetings as requested by the Construction Manager. Some of the items included are, but not limited to:
 - a. A minimum of one schedule coordination meeting will be held with the Prime Contractor project managers and foremen that will be on site daily. These meetings may last a full day and are mandatory. In this meeting, you will be required to list all activities, assign accurate durations, and work with other contractors to sequence the activities as a group.
 - b. Weekly foremen's meetings will be held where weekly work plans (WWP's) will be turned in to the Construction Manager for review and the 6-week project schedule will be discussed. Weekly work plans are required to be turned in prior to the weekly meeting so all activities can be compiled into one WWP and distributed at the meeting.
 - c. Daily stand-up meetings are a daily progress check and planning session for the following day. These meetings will be held on the project site, foremen for all trades on site are required to be there, and they should take no longer than fifteen minutes per day.
57. Project foreman's meetings will be held weekly at the site and Project Managers shall attend bi-weekly. Contractor shall have a representative at each meeting while contractor is on site or within 4 weeks of starting a task. This representative shall have knowledge of the project and empowered to make manpower and financial decisions while at the meeting. Absences to be discussed with the construction manager prior to the meeting.
58. Procore will be used for maintaining project information. Each contractor shall check the program at a minimum of twice a week. The cost of ProCore is by the Construction Manager.
59. Each Prime Contractor will be responsible for completing two punch lists per phase and/or area. One for the Construction Manager and one for the Architect / Owner. Corrections to the Construction Manager punchlist must be complete before the Architect / Owner punch list starts. These will be managed through Procore, and it is the responsibility of each Contractor to maintain their assigned items in Procore.
60. All site observation reports must be responded to within 5 working days and should not alter the project schedule. These will be managed through Procore, and it is the responsibility of each Contractor to maintain their assigned items in Procore.
61. Provide all work per the contract schedule. Durations are not always intended to be cumulative and must be interpreted to the context shown in the schedule. The Prime Contractor understands that there will be concurrent work activities taking place that may require additional supervision, manpower, and equipment or material deliveries to accommodate the schedule needs. Provide sufficient labor, material, and equipment to maintain progress in accordance with project schedule. Durations for each activity are to be maintained. Start dates may shift according to the Construction Manager's schedule.

62. Each prime contractor is responsible to field verify all dimensions prior to fabrication of products.
63. All Closeout Documents must be provided to the Construction Manager by the designated due dates provided through Procore. Due dates will be set for two months prior to the first designated turnover date. Closeout Documents must be 100% submitted prior to Final Billing. If Closeouts are not submitted by the designated due date, monthly payment will be withheld at the discretion of the Construction Manager.
64. Failure to perform work to meet the schedule, quality, sequencing, etc., will result in the supplementation of work at the Construction Manager's discretion. This supplemented work will be back charged to the trade failing to perform the original designated work. ***Any task to be performed by each bid package that is delayed more than 5 days from the scheduled date will qualify for supplemented work.***
65. All time and material work orders must be signed within 48 hours by the prime contractor foreman and Graham Superintendent, or they will not be paid.
66. Prime Contractor to provide proof of purchase, shipment, reception, or production upon the request of the Construction Manager.
67. Prime Contractor to be adequately qualified to perform work in a healthcare environment as outlined below:
 - a. Prime Contractor has completed three similar projects in size, type, and scope in the past seven years.
 - Prime Contractor to provide reference list with bid including customer information.
 - b. Prime Contractor will have an afterhours/24-hour emergency service under the entire contract and warranty period.
 - c. Prime Contractor will have sufficient manpower to staff the project to meet the project schedule outlined in Specifications.
 - d. Prime Contractor must have a competent person on site during all times while any direct subcontractors are on site.
 - e. Field and office management/supervisors must have a minimum of three years of healthcare experience.
 - f. All supervision and project management must have completed infection control and risk assessment training.
 - g. Prime Contractor to provide reference list with bid including customer contract information.
 - h. All supervision must have a minimum of 10 hours OSHA training.

i. All supervision must have CPR / First Aid Training.

70. Prime Contractors are not allowed to order or eat in the hospital's cafeteria or dining room.

END OF SECTION 00 8000

SECTION 00 80 01 – BID PACKAGE #01

Bid Package 01: Concrete Slab Helipad and Walkway

Furnish all necessary labor, materials, office and field supervision, insurance, tools, equipment, layout, hoisting, rigging, shop drawings, field measurements, submittals, permits, licenses and fees necessary to complete the work outlined below. Include all mobilizations, phasing, shift pay, overtime, weekend and holiday pay to complete the work in the scheduled durations shown in the project schedule.

This bid package includes, but is not limited to the following scope of work:

1. Bid Package #00 – General Requirements
2. Plans by INVISION dated June 14th, 2024
3. This Bid Package includes, but is not limited to the following scope of work:
 - a. Specifications from the Project Manual by INVISION, dated June 14th, 2024 including, but not limited to the following sections:
 - i. 02 41 00 Demolition
 - ii. 03 30 00 Cast-in-Place Concrete
 - iii. Division 07 as it pertains to this scope of work including but not limited to
 1. 07 21 00 Thermal Insulation
 2. 07 92 00 Joint Sealants
4. All testing and inspections shall be scheduled by this bid package and coordinated with the Construction Manager. The cost of initial testing and inspections will be paid for by the Owner. All re-testing for failed tests due to deficient work, or costs for any testing cancellations or delays shall be paid for by the Contractor.
5. Where demolition of existing is only partial, demolition shall be done to a point needed to be able to build the new construction as noted.
6. Verify all dimensions in the field prior to fabrication of any items.
7. Contractor must supply all submittals upon notice to proceed to maintain the project schedule as intended.
8. Coordinate any embeds, rebar, electrical boxes, hose bibs, beam pockets, etc with other Bid Packages. Contractor will not be compensated for rework to due to failure to coordinate with other trades. Failure to report discrepancies prior to start of work will exclude contractor from any future compensation for remedial work.
9. Per the schedule in the contract documents there will be a Construction Manager punch list as well as an Owner/Architect/Engineer punch list. Contractor to include mobilizations as needed for punch list corrections.
10. This bid package shall include multiple mobilizations to meet the schedule.
11. Provide all required traffic control for installation of work.
12. Provide all surveying, staking, and layout needed for this scope of work.

13. Provide temporary power and water for this scope of work if other permanent or temporary power and water are not readily available at the jobsite.
14. This Bid Package to apply and maintain all applicable permits.
15. Include full depth saw-cutting as necessary for the demolition and removal of the concrete pad and walkway. Sawcutting to be wet or vacuum cut as necessary and specific precautions are to be taken to not over-cut. **(ADD #1)**
16. Include hand removal, shoring, and protection to expose any adjacent existing building structure as needed.
17. Clean streets and roadways to keep them free of dirt, mud and debris generated by this scope of work. Clean daily or more often as site conditions require.
18. Provide daily jobsite clean-up. Haul and place all debris unrelated to the demo of the helipad to the jobsite dumpster.
19. A concrete wash-out container for use by this Bid Package to be provided by this Bid Package. Concrete wash out to be off-site or on-site concrete wash out container to be emptied off site. Any other means of concrete wash out to be approved by Construction Manager.
20. Concrete waste created by this Bid Package shall be removed from the site by this Bid Package. Concrete waste cannot be placed in the dumpster provide by the Construction Manager.
21. Furnish and install joint sealant at paving and sidewalks and include sealant where concrete poured by this bid package meets any dissimilar material.
22. Furnish and install all pavement markings, traffic signs, handicap parking signs, etc. as indicated in the contract documents. Scope includes the repair of existing pavement markings damaged due to concrete repairs. Striping repair to be completed from curb to curb or the full extent of the marking.
23. Power washing and cleaning of the helipad may be required before applying pavement markings. This cost will be included in this bid package.
24. Provide all labor and equipment for puddling of concrete.
25. Slope slab on grade to drains as outlined on the drawings. The required thickness for the slab on grade or slab on deck must be maintained.
26. Furnish and install all reinforcement including welded wire fabric and any macro/microfibers, dosage rate to be confirmed with Engineer and Manufacturer. All reinforcement must be inspected by testing agent. Coordinate with the testing agent and construction Manager.
27. Miscellaneous embeds, anchor bolts, and dowls to be provided and installed by this package.
28. Clean-up concrete debris, splatter, etc. at all building components.
29. Provide all depressions shown or required in the contract documents.
30. Provide proper FF & FL and sloping per the contract documents.
31. Coordinate concrete sloping around all floor drains with Mechanical / Plumbing Bid Package and Construction Manager.

32. Furnish and install block outs for expansion joint covers in floor slabs and poured concrete walls as indicated in the Contract Documents. Coordinate this work with other bid packages.
33. Review Mechanical and Electrical Drawings to patch existing floors where floor slab work has been completed.
34. Provide all misc. concrete patching noted in the Contract Documents.
35. Provide, inventory and install anchor bolts, embeds, base plates, leveling plates, angles, reglets, metal expansion joint assemblies, etc. Prime Contractor shall report all damaged items or shortages upon finalization of receipt and inventory. Shortages or replacement of items due to loss or damage that can be attributed to Prime Contractor lack of care or management will be the responsibility of the Prime Contractor.
36. Monitor concrete placement and adjust/maintain positioning of reinforcing during pours.
37. Rub, fill, grind, and patch as necessary to prepare surfaces for specified finishes or as necessary to achieve specified tolerances. Patch all exposed form tie holes immediately following stripping operations.

Project Specific Requirements

38. This package is responsible for the removal of all demolished materials from the jobsite. The jobsite dumpsters are not to be used for concrete debris removal. This is assumed to be done via truck or dedicated dumpster and displaced to an appropriate location offsite.
39. This package to remove and reinstall the metal grating and threshold at the entrance to the hospital.
40. This package is responsible for any measures to ensure the protection of all roofing materials in place during the demolition of the helipad and walkway. If the roofing is damaged due to this scope of work, then the repair, replacement, and incidental expenses will be at the cost of this package.
41. This package to supply the installation of the sub-slab insulation for the helipad
42. This package to supply all of the sub-concrete weatherproofing and roof system related components including insulation, roofing, bentonite goods, etc. as shown in the drawings.
- 43. This package to provide an allowance of \$10,000 for the replacement of the existing bentonite waterproofing and existing bentonite granules and drainage layer under the helicopter pad.**
44. This package is responsible for the application of Salt-Guard Product
45. This package is responsible for supplying the layout of the helipad and walk-way extents for the roofer to install the insulation and roofing components. This will be assumed to be a separate mobilization.
46. This package is responsible for all of the saw cutting, backer rod, joint sealants, and adhesives as shown in the contract drawings for all adjoining surfaces including the concrete next to the permanent structure.

47. This package is responsible for all of the helipad paint as required per the contract documents. Please review and coordinate with cure times and product applications to ensure longevity and warranty.
48. This package is to include all necessary tools and equipment for the hoisting and removal of materials as it pertains to your scope of work.
- a. There will not be equipment provided on site to complete this. This package is responsible for supplying equipment and qualified operators to ensure timely and safe operation.
 - b. If this package would like to use equipment to assist with the demolition of materials from the roof – that information must be sent to the Construction Manager for approval by the Engineer of Record.
49. This package to coordinate the routing of all MEP components of the in-slab radiant heat, electrical, sensors, etc. as it applies to the work, concrete reinforcing, and forms as it applies to this scope of work.
50. This package to review and install the concrete joint layout per the drawings as indicated.
51. This package to include the forming and finishing of concrete to ensure the complete installation of all systems as indicated, including the cubs, and chamfering as noted.
52. The Prime Contractor agrees to the following unit/alternate prices, which include all delivery, hoisting, supervision, fringes, equipment, travel time, insurance, taxes, bonds, overhead and profit for the Work if ordered in writing by the Construction Manager. Provide Unit Prices per Bid Breakdown including all mark ups:
- A. Slab-on-Grade: \$ _____/sf
 - B. Survey Crew \$ _____/Hr
 - C. Provide a list of hourly labor rates for change order work including subcontractors working under the prime contractor. Include overtime rates.
 - D. Provide a list of billable tool/equipment rates for change order work including subcontractors.

Company Information:

Bidder's Company Name

Telephone Number

Date of Proposal

Fax Number

Helipad & Roof Replacement
Boone County Hospital
INVISION #24003

CONCRETE SLAB HELIPAD AND WALKWAY
00 80 01

Signature

Printed Name

END OF SECTION 00 80 02

SECTION 00 80 02 – BID PACKAGE #02
Bid Package 02: Roofing

Furnish all necessary labor, materials, office and field supervision, insurance, tools, equipment, layout, hoisting, rigging, shop drawings, field measurements, submittals, permits, licenses and fees necessary to complete the work outlined below. Include all mobilizations, phasing, shift pay, overtime, weekend and holiday pay to complete the work in the scheduled durations shown in the project schedule.

This bid package includes, but is not limited to the following scope of work:

1. Bid Package #00 – General Requirements
2. Plans by INVISION dated June 14th, 2024.
3. This Bid Package includes, but is not limited to the following scope of work:
 - a. Specifications from the Project Manual by InVision, dated June 14th, 2024 including, but not limited to the following sections:
 - i. All Division 00 and 01 specifications
 - ii. 06 10 00 Rough Carpentry (as applicable)
 - iii. 07 01 50.19 Preparation for Re-Roofing
 - iv. 07 14 19 Fluid Applied Waterproofing
 - v. 07 19 00 Water Repellents
 - vi. 07 21 00 Thermal Insulation
 - vii. 07 24 00 Exterior Insulation and Finish Systems (as applicable)
 - viii. 07 54 00 Thermoplastic Membrane Roofing
 - ix. 07 62 00 Sheet Metal Flashing and Trim
 - x. 07 71 00 Roof Specialties
 - xi. 07 92 00 Joint Sealants
4. The below items are further clarifications and/or additional requirements to the above specification sections.
5. Contractor shall furnish and install complete roofing system as designed in the Contract Documents. Bid Package pricing shall align with inclusions and exclusions as outlined in this document, this includes but not limited to; insulation, membrane, flashings, termination bars, penetration seals, curb detailing, roof hatches, scuppers, adhesives, fasteners, and any appurtenances for complete system.
6. Contractor must supply all submittals upon notice to proceed in order to maintain the project schedule as intended.
7. Contractor shall familiarize themselves with architectural layout of cricket, tapers, and roof drains shown in Contract Documents, and shall provide shop drawings of actual tapers and build-up of roofing materials to verify required slope per the Contract Documents.
8. Include additional roof penetration flashings for roof mounted equipment items such as vent piping, exhaust fans, mechanical items, mounts for solar array. Contractor shall familiarize themselves with the roof mounted equipment with the required penetrations and curb detailing for such equipment.

9. Contractor shall provide and install rubber walkway pads as outlined in the Contract Documents.
10. Contractor shall provide and install all coping cap at parapets, along with weather seal, and misc. counter-flashings. Contractor shall coordinate color and finish of metals as noted in the Contract Documents and to match building design elements.
11. All roof penetrations may not be ready at the time of roof installation. Provide 3 additional mobilizations to flash roof penetrations after the main roofing has been completed.
12. This Bid Package is responsible for all hoisting of materials related to this package. Materials on roof are to be secured daily.
13. Provide all layouts as required to complete this scope of work. This Bid Package is to field verify all dimensions prior to fabrication of products.
14. Contractor shall include safe access to and from the roof for the duration required for roofing install.
15. Provide and install all expansion joints if required by manufacturer's recommendations.
16. Provide all caulking as needed for roof flashing or any materials supplied by this Bid Package. Include all caulking from flashings to metal panels and flashing to other dissimilar materials.
17. Contractor shall enclose and detail all curbs, boots, and all penetrations for mechanical and electrical as noted in the Contract Documents.
18. Contractor shall provide all submittals, product data, shop drawings, and documents as required by the Construction Documents.
19. Contractor shall provide specific warranties as identified in Contract Documents.
20. Safety
 - a. Contractor shall provide, maintain, and remove a temporary Warning Line System 15' from the edge of the roof around the entire helipad rooftop perimeter. This system shall meet all requirements of OSHA regulations especially 1926.502 10. Install this warning line system at the commencement of work. The warning line system shall be maintained by this Bid Package until 10 days after substantial completion (or before this date as directed by the Construction Manager). This warning lined to be utilized by all trades on the jobsite.
 - i. Contractor to ensure appropriate entrances and exits at stair tower, trash chute, and other means of entrance, egress, and disposal.
 - ii. Work outside of established warning line will require 100% fall protection. Any tie-off equipment shall be provided by Contractor not Construction Manager
21. This package to exclude providing/installing any ladders.

Project Specific Requirements

22. This package to provide the complete removal and replacement of all roofing components.
 - a. This package must haul off roofing components separate from the jobsite dumpsters provided, and must plan to clean, remove, and haul off at the end of each workday to ensure no remaining debris is left.
 - b. This to include the removal and disposal of all pavers as applicable.
23. This package is responsible of ensuring that the roofing removal is phased as to be weather tight at the end of each work day.
24. This package to supply the installation of the sub-slab pink foam for the helipad
25. This package to supply all of the sub-concrete weatherproofing and roof system related components including insulation, roofing, bentonite goods, etc. as shown in the drawings.
- 26. This package to provide an allowance of \$10,000 for the replacement of the existing bentonite waterproofing and existing bentonite granules and drainage layer under the helicopter pad.**
27. This package to make note of, and adhere to detail 1/A5.01 to ensure warrantable roofing condition.
28. This package to include the removal and patch-back of the curbs as noted.
29. This package to review the roof penetrations on the MEP, Architectural, and Structural drawings to develop an understanding of the number of penetrations as required to complete this scope.
30. This package to supply the roof walkway pads as indicated on A1.31
31. This package to plan for multiple mobilizations including the removal of the existing roofing, the replacement of the roofing including all components under the helipad, and the final tie-in and roofing of the remainder of the roof.
32. This package is to include all necessary tools and equipment for the hoisting and removal of materials as it pertains to your scope of work.
 - a. There will not be equipment provided on site to complete this. This package is responsible for supplying equipment and qualified operators to ensure timely and safe operation.
33. This contractor to review safety requirements above. This package to supply flagging around the entire scope of work for the use of all trades, for the full duration of the construction project. (ADD #1)
34. This contractor to supply a stair-tower that is to be regularly inspected for use by all trades for the full duration of the construction project.
35. This package to supply all new components as required by contract drawings, including but not limited to membrane, adhesives, fasteners, termination bars, and other roofing accessories.
36. This package is responsible for supplying all means of engineered controls of fall protection including but not limited to, D-Rings, Raptor Carts, and other Tie-off Points. **(ADD #1)**

- 37. This package to supply an allowance of \$12,000 for the removal and replacement of form roofing if found to have been further deteriorated beyond covering.**

38. Provide unit prices for the following items:

1. Provide a list of hourly labor rates for change order work including subcontractors working under the prime contractor. Include overtime rates.
2. Provide a list of billable tool/equipment rates for change order work including subcontractors.

Alternates: Provide pricing on Bid Form for all applicable alternates as defined in Specifications

Company Information:

Bidder's Company Name

Telephone Number

Date of Proposal

Fax Number

Signature

Printed Name

END OF SECTION

SECTION 07 21 00
THERMAL INSULATION

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Board insulation at split-slabs (above roofing membrane serving as waterproofing and below rooftop slab). *Addm1*

1.02 RELATED REQUIREMENTS

- A. Section 03 30 00 - Cast-in-Place Concrete
- B. Section 07 24 00 - Exterior Insulation and Finish System; Insulation specified as part of wall assembly system. *Addm1*
- C. Section 07 54 00 - Thermoplastic Membrane Roofing: Insulation specified as part of roofing system (below the membrane). *Addm1*

1.03 REFERENCE STANDARDS

- A. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
- B. ASTM C1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board.
- C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
- D. NFPA 285 - Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide data on product characteristics, performance criteria, and product limitations.

1.05 FIELD CONDITIONS

- A. Do not install insulation adhesives when temperature or weather conditions are detrimental to successful installation.

PART 2 PRODUCTS

2.01 APPLICATIONS

- A. Insulation at Concrete Split-Slabs: Extruded polystyrene (XPS) board. *Addm 1*

2.02 FOAM BOARD INSULATION MATERIALS

- A. Extruded Polystyrene (XPS) Board Insulation: Comply with ASTM C578 with either natural skin or cut cell surfaces. *Addm 1*
 - 1. Type: ASTM C578, as follows (minimums):
 - a. Under Concrete Slab: Type VII, 60 psi
 - b. Near Door: Type V, 60 psi.
 - 2. Flame Spread Index (FSI): Class A - 0 to 25, when tested in accordance with ASTM E84.
 - 3. Smoke Developed Index (SDI): 450 or less, when tested in accordance with ASTM E84.
 - 4. Thermal Resistance, R-value: 5.0 (0.88) per 1 inch thickness at 75 degrees F mean temperature.
 - 5. Board Edges: Square.
 - 6. Water Absorption: 0.3 percent by volume, maximum, by total immersion.
 - 7. Thickness: 2 inches, unless otherwise indicated in drawings.
 - 8. Products:
 - a. DiversiFoam
 - b. Dow Chemical Company; STYROFOAM SquareEdge: www.dow.com/sle.
 - c. Kingspan Insulation LLC; GreenGuard XPS: www.kingspan.com/#sle.

- d. Owens Corning Corporation; FOAMULAR Extruded Polystyrene (XPS) Insulation: www.ocbuildingspec.com/#sle.
 - e. Pactiv Building Products: www.pactiv.com
 - f. Substitutions: See Section 01 60 00 - Product Requirements.
- B. ~~Polyisocyanurate Board Insulation with Facers Both Sides: Rigid cellular foam, complying with ASTM C1289; Type I, aluminum foil both faces; Class 2, glass fiber reinforced core.~~
- 1. ~~Classifications:~~
 - a. ~~Type I (Typical): Faced with aluminum foil on both major surfaces of core foam.~~
 - 1) ~~Class 2—Glass fiber reinforced or non-reinforced core foam.~~
 - 2) ~~Compressive Strength: Classes 1-2-3, Grade 2—20 psi (138 kPa), minimum~~
 - 3) ~~Thermal Resistance: nominal R-value of 6 per inch.~~
 - b. ~~Type II (Near Door): Faced with either cellulosic facers or glass fiber mat facers on both major surfaces of the core foam.~~
 - 1) ~~Class 1—Faced with glass fiber reinforced cellulosic facers on both major surfaces of core foam.~~
 - 2) ~~Compressive Strength: Class 4, Grade 1—80 psi (551 kPa), minimum.~~
 - 3) ~~Thermal Resistance, R-value: At 1-1/2 inch thick; Class 1, Grades 1-2-3—8.4 (1.48), minimum, at 75 degrees F.~~
 - 4) ~~Thermal Resistance: nominal R-value of 5.8 per inch.~~
 - 2. ~~Flame Spread Index (FSI): Class A—0 to 25, when tested in accordance with ASTM E84.~~
 - 3. ~~Smoke Developed Index (SDI): 450 or less, when tested in accordance with ASTM E84.~~
 - 4. ~~Comply with fire resistance requirements indicated on drawings as part of an exterior non-load bearing exterior wall assembly when tested in accordance with NFPA 285.~~
 - 5. ~~Board Size: 48 inch by 96 inch.~~
 - 6. ~~Board Thickness: as indicated in wall types and details~~
 - 7. ~~Board Edges: Square.~~
 - 8. ~~Products:~~
 - a. ~~Atlas Roofing Corporation; AC Foam Supreme Polyiso Roof Insulation: www.atlasroofing.com/.~~
 - b. ~~Carlisle Coatings & Waterproofing, Inc; R2+ Silver: www.carlisleccw.com/#sle.~~
 - c. ~~Hunter Panels; Xci Foil (Class A): www.hunterpanels.com/#sle.~~
 - d. ~~**BASIS OF DESIGN:** Rmax Inc; R-Matte Plus-3: www.rmax.com/#sle.~~
 - e. ~~Substitutions: See Section 01 60 00—Product Requirements.~~

2.03 FOAMED-IN-PLACE INSULATION

- A. Shim Space Insulation: Polyurethane type, single component spray foam system, reduced expansion spray foam system; semi-rigid; closed cell.
 - 1. Application: ~~Fill shim spaces around openings, for sealing seams in board insulation within the joint, and joints greater than 1/8" between furring and insulation. NOT to be used at curtain wall shim space. New or infill of existing exterior wall penetrations Addm 1~~
 - 2. Thermal Value (R), Minimum: 4.50 per inch, when tested in accordance with ASTM C 518.
 - 3. Density: 1.3 lb/cu ft, when tested in accordance with ASTM D 1622.
 - 4. Flame Spread: 20, when tested in accordance with UL 1715 Fire Test.
 - 5. Smoke Development: 25, when tested in accordance with UL 1715 Fire Test.
 - 6. Product:
 - a. Convenience Products: "Touch 'n Seal No-Warp Foam".
 - b. Hilti: "CF 812 Window and Door Pro Low-Pressure Filler Foam".
 - c. Substitutions: See Section 01 60 00 - Product Requirements.

2.04 ACCESSORIES

- A. ~~Weather Barrier: See Section 07 27 00—Air Barriers. Addm 1~~
- B. ~~Tape: Reinforced polyethylene film with acrylic pressure sensitive adhesive. Addm 1~~

1. ~~Application: Sealing of interior circular penetrations, such as pipes or cables.~~
 2. ~~Width: Are required for application.~~
 3. ~~Temperature Resistance: Range of minus 40 to 212 degrees F.~~
- C. ~~Tape joints of rigid insulation in accordance with insulation manufacturers' instructions. Addm1~~
- D. ~~Insulation Fasteners: Appropriate for purpose intended and approved by manufacturer.~~
1. ~~Length as required for thickness of insulation material and penetration of substrate, with plastic washers. Addm1~~
- E. Adhesive: Type recommended by insulation manufacturer for application.
1. Must show compatibility with adjacent products.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that substrate, adjacent materials, and insulation materials are dry and that substrates are ready to receive insulation and adhesive.
- B. Verify substrate surfaces are flat, free of honeycomb, fins, irregularities, or materials or substances that may impede adhesive bond.
- C. Verify substrate materials are compatible with insulation & adhesives.

3.02 PREPARATION

- A. Spray Foam:
 1. Mask and protect adjacent surfaces from over spray or dusting.
 2. Apply primer in accordance with manufacturer's instructions.

3.03 BOARD INSTALLATION AT FOUNDATION PERIMETER ADDM1

- A. ~~Apply adhesive to back of boards:~~
 1. ~~Three continuous beads per board length.~~
- B. ~~Install boards horizontally on foundation perimeter.~~
 1. ~~Place boards to maximize adhesive contact.~~
 2. ~~Butt edges and ends tightly to adjacent boards and to protrusions.~~
- C. ~~Cut and fit insulation tightly to protrusions or interruptions to the insulation plane.~~

3.04 BOARD INSTALLATION AT CAVITY WALLS ADDM1

- A. ~~Secure impale fasteners to substrate at frequency recommended by manufacturer.~~
- B. ~~Adhere a 6 inches wide strip of polyethylene sheet over expansion joints with double beads of adhesive each side of joint.~~
 1. ~~Extend sheet full height of joint.~~
- C. ~~Apply adhesive to back of boards:~~
 1. ~~Three continuous beads per board length.~~
- D. ~~Install boards to fit snugly between wall ties.~~
- E. ~~Install boards horizontally on walls.~~
 1. ~~Place boards to maximize adhesive contact.~~
 2. ~~Install in running bond pattern.~~
 3. ~~Butt edges and ends tightly to adjacent boards and protrusions.~~
 4. ~~Place impale fastener locking discs.~~
- F. ~~Cut and fit insulation tightly to protrusions or interruptions to the insulation plane.~~

3.05 BOARD INSTALLATION UNDER CONCRETE SLABS

- A. ~~Place insulation under slabs on grade after base for slab has been compacted. Addm1~~
- B. Cut and fit insulation tightly to protrusions or interruptions to the insulation plane.

- C. Prevent insulation from being displaced or damaged while placing vapor retarder and-placing slab. *Addm1*

3.06 SPRAY FOAM INSULATION

- A. Apply insulation in accordance with manufacturer's instructions.
- B. Apply insulation by spray method, to a uniform monolithic density without voids. Do not exceed manufacturer's recommended thickness per application.
- C. Where applied to voids and gaps assure space for expansion to avoid pressure on adjacent materials that may bind operable parts.
- D. Trim excess away for applied trim or remove as required for continuous sealant bead.

3.07 PROTECTION

- A. Do not permit installed insulation to be damaged prior to its concealment.

END OF SECTION