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Bid Package Breakdown

SUPPLEMENTAL INFORMATION

For Specialty Contractor

BP #: 24

Date: March 20, 2015

BP Name: Translucent Canopy Panels

Bid Package Description: Furnish and install Translucent Canopy Panels

Bid Package Value:

Specific Requirements and Scope:

This scope includes the specialized trade of engineering, fabrication and installation of the Translucent Canopy Panels that will be installed on the High Roof over the Stadium. The firms bidding this work as a Prime will be a Highly Specialized Contractor with the necessary experience to provide this type work.

Specific Skills Required:

Bidder must have sufficient experience in this type of work as proven in comparable projects. Bidder must be familiar with fast track performance of project and understand that the design is ongoing. Bidder must have the financial capability to have the funds available to handle the project due to the fast track nature.

Risks Associated with this Package:

Work must be completed within the time frames established so as to not hold up the other trades.

Firms must have a good safety record.

Experience and Licenses Required:

Subcontractor must have 10 years of experience with successful fabrication/installation of ETFE Systems with a minimum of 5 projects of similar scale and complexity within the United States with a successful performance. Installer must have a minimum of five(5) years of experience performing this type of work including the magnitude and schedule conformance.

Schedule/Performance and Manpower Requirements:

Contractor must have the manpower capability to adhere to the fast track schedule while maintaining high quality work.

Subcontractor must have the manpower available to perform this work in the time frame allotted in this fast pace project.



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Participants in this package must be responsive to the Prime's direction and schedule needs and must be flexible to provide manpower as needed and when needed.

Insurance Required:

Subcontractor must be able to be enrolled in an OCIP program or be able to provide insurance limits of the project.

General Liability insurance will be required. (\$5M per occurrence)

Bonding required:

A 100% Payment and Performance Bond will be required (from an A rated size VIII or better).

Contracting Required:

Bidder must be able to execute the Hunt Subcontractor Agreement.

Bidder must have home office support that can maintain reporting requirements of the Construction Manager (SBD, CWP, Safety)

Bidder must have a clean record with regards to legal claims.

Programs Required:

SBD (CSBE) and CWP

The Stadium aspires to have at least 70% of the project's workers be residents of Miami-Dade County, 20% of which are from the County's Community Development Block Grant (CDBG) eligible areas.

The Stadium also aspires to hire a minimum of 10% of the project's workers from Miami – Gardens. Labor residing in zip codes 33056, 33055, 33054, 33169 and 33014 should be given first preference for hire.

The project also aspires to utilize as many local firms as reasonably practical and aspires to have at least 35% of the firms hired as subcontractors be firms located within Miami-Dade County.

BID PACKAGE SBD INFORMATION SHEET

Miami Dolphins
 Hunt Construction Group
 Date: March 20, 2015
 Bid Package number: BP-24
 BP Package Name: Translucent Canopy Panels



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Preliminary Outline of Work Scope	Estimate Detail and Scope	CSBE Possible Opportunities	BID PACKAGE \$ Totals	Specialty Contractor Dollars (not included in SBD Program)	Single Source Dollars (not included in SBD Program)	Non Specialty Dollars	Potential CSBE Participation Dollars
Translucent Canopy Panels	Engineer, Fabricate and Install						\$0
Percentage of SBD: 0%			\$0	\$0	\$0	\$0	\$0

Attachment II
March 20, 2015
Subcontractor's Scope of Work

A. General Description of the Scope of Work:

Subcontractor shall perform the Subcontract Work generally described below (and as further described in the Contract Documents) to provide the following:

BP-24 Translucent Canopy Panels:

The intent of this Attachment II is to describe and clarify the Work required under this Agreement. It is the responsibility of this Subcontractor to provide design assist services and furnish a completed Fixed Canopy Structure associated with the Miami Dolphins Stadium Renovation project in accordance with the Contract Documents and as described below.

B. Payment and Performance Bonds:

Bonds will be required: Yes X No _____

If Bonds are required, the Bonds will be furnished in accordance with the provisions of Attachment VI.

C. Specific Requirements:

1. Subcontractor shall provide (furnish and install) all Work described by the following specification sections necessary for the proper completion of this Scope of Work as further clarified by this Attachment II:

- Division 00 – All Sections
- Division 01 – All Sections
- Section 05 12 00 - Structural Steel
- Section 05 16 00 – Structural Steel Cables
- Section 05 50 00 – Metal Fabrications
- Section 08 45 13 – ETFE Transparent Assemblies
- Section 08 45 16 – PTFE Tensile Membrane Canopy
- Section 09 91 13 – Exterior Painting
- Section 09 66 00 – High Performance Coatings

2. Subcontractor shall furnish and install, without limitation, a complete ETFE Transparent Assemblies / Pressure-Inflated ETFE system and ePTFE Tensioned Fabric Structures. The scope of roof fabric work includes all requirements to engineer, provide design assist services, detail, and provide all materials, fabrication, labor, supervision, services, inspections, testing, tools, equipment, supplies, fuel, transportation, freight, storage, hoisting, rigging, installation, temporary facilities, clean-up and all other items or services of any kind whatsoever necessary to fully perform and complete the ETFE Transparent Assemblies / Pressure-Inflated ETFE system and ePTFE Tensioned Fabric Structures. This scope includes, but is not limited to tensioned fabric, fabric covers, closure fabric, fabric splice connections, fabric tensioning cables, valley cables, attachment hardware, end fittings, clamping systems, plates, angles, bar, pipe, straps, bridging, loose metal, hardware, bolts, fasteners, nuts, washers, shim plates, leveling nuts, welding rod, gasketing, sheet metal flashing/counter flashing, termination bars, surface preparation, prime and finish coat of paint, powder coating, etc as it relates to the following:

- a. Sideline/Endzone Pressure Inflated ETFE System(s),

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- b. Mast Pressure Inflated ETFE System(s),
 - c. ePTFE Bullnose system(s),
 - d. Escalator Canopy ePTFE membrane system(s)
3. Membrane Fabric:
- a. Subcontractor shall provide materials specified and as may become required. Color as may be required.
 - (a) ETFE Foil, including print pattern
 - (b) ePTFE (expanded polytetrafluoroethylene) membrane
4. Structural Steel:
- a. Shapes, plates, bar materials, supplemental steel or beams, hot-dipped galvanized as may be required to complete work.
5. Cables and End Fittings:
- a. Subcontractor shall provide all perimeter, catenary, sectionalized, supplementary fabric tensioning cables, and any other cables required, including PVC coating, shown and as may be required to properly tension fabric, including fittings, pins, etc. as shown and as may be required.
6. Aluminum Framing:
- a. Subcontractor shall provide aluminum extruded profiles, fabric edge holders, etc. shown and as may become required.
7. Aluminum Clamping System:
- a. Subcontractor shall provide aluminum framing & clamping system, extrusions, bent plate, stainless steel, powder coating, fastening hardware, etc. shown and as may become required.
8. Stainless Steel:
- a. Subcontractor shall provide stainless framing & clamping system, pipe, cable, end fittings hardware, etc. shown and as may become required.
9. Bolts, Connectors, and Anchors:
- a. Subcontractor shall provide bolts, connectors and anchors finished as specified.
10. Accessories:
- a. Subcontractor shall provide neoprene gasketing, etc. shown and as maybe required.
 - b. Subcontractor shall provide fabric connectors, cable and fasteners, etc. shown and as may be required.
11. Mockups:
- a. Subcontractor shall provide all required mockups, including their removal.
12. Subcontractor shall provide Maintenance Kits and Repair Manuals indicated and as may be required.
13. Subcontractor shall provide pressure inflation unit(s) indicated and as may be required.
- a. Each unit shall be self contained with disconnect switch. Unit shall also be mounted using vibration isolators to the canopy catwalk.
 - b. Subcontractor shall provide pneumatic piping, hoses, connectors, isolation valves, hangers, etc. to make a complete and operational pressure inflation system.

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14. Subcontractor shall provide the Specification required warranty(s).
15. Subcontractor shall provide the Delegated Design of;
 - a. the ETFE Membrane and,
 - b. the ePTFE Membrane.Price shall include all necessary Professional Liability insurances (see Attachment 5 for coverage limits), etc.
16. Subcontractor shall provide ETFE protective covers, including their removal as directed by Hunt.
17. Subcontractor shall provide ePTFE (expanded polytetrafluoroethylene) membrane, coatings, resin, additives, cables, fittings, castings, clamping systems, hardware, fasteners, gasketing, etc. as required by specification and as may be required for a completed system.
18. Subcontractor shall provide field and laboratory testing required for State of Florida, Miami-Dade County product control and/or NOA approval.
19. Bird Netting
20. Subcontractor shall understand access, egress, staging, hoisting requirements, restraints, etc. of the Project work site. Subcontractor shall provide a preliminary utilization plan for review by Hunt showing all crane locations and staging requirements for the erection of the Canopy structure. Preliminary Schedule, Staging and Erection plan to be submitted at time of bid and shall describe the following in both pictorial and narrative format:
 - a) Traffic plan (crane movement, maximum elevation and other material handling equipment)
 - b) Location for onsite ground assembly
 - c) Multiple Crane/Critical Lifts
 - d) Sequence
 - e) Schedule
 - f) Manpower requirements
21. Subcontractor shall provide vertical access for Subcontractor's Workforce, both ingress/egress for the duration of its work.
22. Subcontractor shall accept the Site preparation and shall make any and all additional stone placement or other modifications to facilitate the placement of crane(s), shoring, etc. Subcontractor shall provide any additional access roads, staging areas, crane mats, temporary stone, ice removal, water removal, temporary protection, barricades, signage, dust control, protection of existing utilities to remain, safety precautions and/or procedures as required for the completion of this Work and the necessary removals. The Subcontractor shall maintain the Site surface. Subcontractor shall restore, to like condition, the Site following the completion of each construction sequence area of its work. Subcontractor understands and accepts that a number of existing underground utilities are already installed inside and outside the Stadium building.
23. Subcontractor shall review the Geotechnical Reports and all other site improvements and determine conditions on the Project Site and Building Design Load limitations for proper and safe support of all crane(s), etc. during erection operations.
24. Subcontractor shall, Sixty (60) calendar days following Contract Award, provide a completed, detailed Final Erection Plan, incorporating all aspects of the preliminary plan and including temporary support systems, hoisting methods, crane sizes and locations and utilized capacities. Said

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Plan shall identify all anticipated Critical Lifts, Multiple Crane Lifts, Work Platforms and Tropical Storm/Hurricane Preparedness shall be the responsibility of the Subcontractor to develop. Said plan shall be stamped and sealed by a professional engineer. Subcontractor shall furnish and install all of the necessary temporary support members, shoring towers, (including any necessary foundations) or bracing systems, including erection angles, cables, loose hardware, embeds, welding, drilling and anchors necessary. Subcontractor shall timely remove all temporary support systems upon completion of erection. Subcontractor shall be responsible for any cost resulting from the effect of its temporary system on the work of others. Subcontractor shall perform any and all patchwork required as a result of temporary support and bracing systems utilized in the erection of the Work.

25. Subcontractor shall include all costs for equipment, materials, temporary structures, etc. required to be prepared for and be ready to deal with a tropical storm or hurricane. Subcontractor shall not include contingencies or costs associated with labor required in the event of an actual tropical storm or hurricane. Subcontractor will be reimbursed for any such actual costs incurred.
26. Subcontractor shall utilize gas or diesel operated equipment for all jobsite welding which will be required for the work, etc. No temporary power will be available for this work.
27. Subcontractor shall provide all task specific lighting that may be required for the installation of its Work.
28. Subcontractor shall obtain field measurements prior to fabrication when possible and as construction of structural frame allows.
29. Subcontractor shall provide all layout and field engineering required to complete its Work, from control points and benchmarks provided by others.
30. Subcontractor shall provide a full time onsite Project Manager and full time onsite Erection Superintendent and/or Fabrication Superintendent. The Subcontractor's project staff is subject to approval by the Hunt. Subcontractor's Project Manager shall have the authority to make decisions for and negotiate on behalf of the Subcontractor regarding scheduling, change orders, quality control issues, manpower levels, etc.
31. Subcontractor, or Subcontractor's Erector, shall employ at the site a full time responsible, qualified, and competent Contractor Safety Representative whose sole responsibility shall be the protection of persons and property and the administration of Subcontractor's safety and loss prevention program. The minimum qualifications of the Subcontractor Safety Representative shall be as defined in the Project Safety Program.
32. Subcontractor shall review and approve all shop drawings prepared by the Subcontractors detailers, in-house or otherwise. This shall include stamping all drawings with Subcontractor's shop drawing approval stamp prior to submission to Hunt.
33. As the design is not yet complete, this Subcontractor shall include provisions for dimension changes during the shop drawing process prior to fabrication at no additional cost, including but not limited to re-engineering and re-drafting required for all re-submissions of shop drawings, or change in schedule. Subcontractor shall include minor changes in spacing, and length of members. Subcontractor to receive written approval, prior to Subcontractor award, of detailers, fabricators, and any other Subcontractors to be used on this project. If, in the Contractor opinion, any detailer or fabricator who has been hired by this Subcontractor is unacceptable, this Subcontractor shall change detailers or fabricators, or perform this apportioned work himself. If the Contractor feels that the detailing or fabrication production level is inadequate, this Subcontractor will remedy problem by adding personnel or contracting an additional firm as required. No delay will be accepted for slow drafting or fabrication. The detailer and fabricator will work all necessary overtime and shift work to

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insure that the project schedule is not affected. This Subcontractor shall not change Subcontractors, fabricators, or detailers without written approval from Contractor.

34. Subcontractor understands that exposed connections, including, but not limited to exposed truss connections, columns connections, etc. shall conform to aesthetic and/or dimensional requirements as determined by the design team and the Owner. Such requirements include, but are not limited to, welded connections in lieu of bolted connections, and/or ornamental bolts. Note that this steel is not Architecturally Exposed Structural Steel (AESS). If this Subcontractor chooses utilize welded connections, it shall then provide "non-structural" bolts where required by Architect to conform to the aesthetic requirements. Although project is not AESS, exposed areas such as will be fabricated as "Exposed to View."
35. This Subcontractor in concert with Structural Steel Erection Subcontractor shall provide all framing required to support all penetrations through roof and gutter decking. All required penetrations may not be shown on contract drawings, but all required framing and supports are included in Subcontract price. Roof sump plates for drain locations will be provided by Plumbing Subcontractor and installed by Subcontractor.
36. Subcontractor shall sequence and schedule its work with that of the single-ply roofing membrane contractor. Subcontractor shall be responsible of the final condition air and/or water infiltration sealing at material interface points.