



**HUNT**  
An AECOM Company

HUNT Construction Group, Inc. - An AECOM Company  
2 Oakwood Blvd., Suite 125  
Hollywood, Florida 33020  
Phone: (305) 325-0577 Fax: (305) 325-0765  
[www.aecom.com](http://www.aecom.com)  
[www.huntconstructiongroup.com](http://www.huntconstructiongroup.com)

# Bid Package Breakdown

## SUPPLEMENTAL INFORMATION

### For Specialty Contractor

**BP # 5**

**Date: 9/26/14**

**BP Name: Plumbing Infrastructure**

**Bid Package Description:** Replacement /modifications of plumbing equipment and piping.

**Bid Package Value:** \$ 4,000,000.00

---

#### **Specific Requirements and Scope:**

Plumbing Infrastructure (equipment , water, waste and storm piping ) is complex and firms bidding this work as a Prime must be a firm with experience in large industrial / commercial renovation projects.

#### **Specific Skills Required:**

Bidder must be familiar with the fast track performance of project and must understand that the Design is ongoing.

Bid package is a "Design Assist" package and special engineering and experience with mechanical systems is required.

#### **Risks Associated with this Package:**

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

#### **Experience and Licenses Required:**

Subcontractor must be a specialized trade contractor that has a license to do this type of work that is required per that budget line item.

#### **Schedule/Performance and Manpower Requirements:**

Bidder must be large enough to immediately accommodate any emergency situations that could arise during the performance of the work.

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)



HUNT Construction Group, Inc. - An AECOM Company  
2 Oakwood Blvd., Suite 125  
Hollywood, Florida 33020  
Phone: (305) 325-0577 Fax: (305) 325-0765  
[www.aecom.com](http://www.aecom.com)  
[www.huntconstructiongroup.com](http://www.huntconstructiongroup.com)

**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 and Safety)

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

**Programs:**

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 firm located within Miami-Dade County.

**Specifics to Line Items:**

**Equipment:** The plumbing equipment (Boilers, Pumps) will be purchased and installed by the Prime.

**Piping:** The majority of the large piping will be purchased and installed by the Prime. Portions of the smaller branch piping can be potentially assigned to CSBE Firms.

**Insulation:** The majority of the piping insulation will be purchased and installed by the Prime. Portions of the smaller branch piping can be potentially assigned to CSBE Firms.

**Valves / Specialty Fittings:** The valves and specialty fittings will be purchased and installed by the Prime.

**Fire stopping:** This work can be potentially assigned to CSBE Firms.

**ATTACHMENT II – SCOPE OF WORK**

**1. SPECIFICATION REFERENCE:**

The organization of the specifications into divisions, sections and articles, and the arrangement of the drawings shall not control the Construction Manager in dividing the work among the Subcontractors or in establishing the extent of the Work to be performed by any Subcontractor.

Reference is made to the following Divisions of Work and Specification Sections which relate to this Scope of Work for coordination purposes, but is in no way intended to limit or alter the intent of the Contract Documents:

<u>SECTION NO.</u>	<u>TITLE and DESCRIPTION</u>	
Division 1	Project Manual Technical Specs [Front End]	
Division 22 spec 220500	Common Work Results for Plumbing	09/10/14
220700	Plumbing Insulation	09/10/14
220800	Commissioning of Plumbing	09/10/14
221000	Plumbing Piping	09/10/14
221123	Domestic Water Booster	09/10/14
223000	Plumbing Equipment	09/10/14
229000	Plumbing Project Closeout	09/10/14

**2. INCLUSIONS:**

It is understood and agreed this **Work** includes all inclusions as described in the following subparagraphs regardless of whether or not they are in the above specifications or any other specification section or shown on the plans.

A. **Design Intent**

1. It is the intent of the Scope of Work to convey to this Subcontractor the total responsibility for the Work. This Subcontractor understands that due to the "Fast Track" nature of this project, Construction Documents may not be 100 percent complete and will develop as the project progresses. However, the Subcontractor shall perform all work required or reasonably inferred under the best practices in the Construction Industry for a complete and fully functional and operational system(s) for the purpose intended.
2. This project will require the Subcontractor to work as a team member with the Construction Manager and other members of the project team through the completion of construction to assure that all work required by this Scope will be performed in such a manner that it is complete, fully functional, and in accordance with the contract documents within the contract price.

## Miami Dolphins Stadium Renovations

### BP- 5 Plumbing Infrastructure

Published: 9-22-14

3. References to the term "Contractor" in the Drawings and Specifications shall be interpreted to mean work by this Subcontractor as they relate to this scope of work.

The Scope includes the following items. (The intent of listing scope items is for ease of major scope identification; it is not intended to be a complete listing of all items that may be required to complete the scope of work as required by the Contract Documents).

Subcontractor is responsible for all SEATING as indicated in the Contract Documents, including but not limited to;

#### B. General Plumbing Infrastructure Scope

1. The Scope includes providing general items and services typical to the MEP divisions. (The intent of listing scope items and services is for ease of general scope identification and is not intended to be a complete listing of all items and services that may be required to complete the scope of work as required by the Contract Documents)
2. Provide designated/required personnel to participate in weekly and/ or as necessary MEP Coordination Meetings hosted by the Construction Manager.
3. Provide designated/required personnel to participate in generating and updating the Equipment / Commissioning Matrix.
4. Furnish and install all required block-outs, sleeves, inserts, anchors and openings. Coordinate with all other trades, structural documents and applicable standards prior to installation.
5. Coordinate and mark-up all block-outs, sleeves, inserts and openings required in precast on precast shop drawings.
6. Coordinate and mark-up all openings required in masonry walls.
7. Provide any required core drilling /saw cutting including engineering costs associated with omitted or mislocated block-outs, sleeves and openings. Coordinate with all other trades and structural documents prior to installation.
8. Provide shop drawings for all block-outs, sleeves, inserts and openings in structural systems not reflected or referenced on structural documents prior to installation.
9. Provide UL rated fireproofing assemblies for all penetrations associated with this scope of work. Provide complete submittal of all anticipated applications prior to start of work. Subcontractor understands that Hunt strongly encourages that all subcontractors utilize the same fireproofing / firesafing contractor and material.
10. Provide coordination and physical layout for all required concrete housekeeping pads, bases and curbs.
11. Provide and install all hangers, supports, clamps, rods, inserts, imbeds, slides, anchors, braces, platforms and clip angles for piping and equipment.
12. All hangers, supports, clamps, rods, braces, platforms and clip angles must be of a noncorrosive material and be compatible with the South Florida environment.
13. Coordinate the hanging of piping and equipment with subroof contractor and other trades for a combined support system. No equipment, piping or hangers

## Miami Dolphins Stadium Renovations

### BP- 5 Plumbing Infrastructure

Published: 9-22-14

will be installed between structure and subroof. All equipment and piping must be supported from Sub-roof supports (ref spec section 05 31 26).

14. Provide and install all vibration isolation control devices and materials required for isolating equipment and piping from the building structure. This includes all building expansion and noise requirements referenced by the Contract Documents, code and industry standards of similar type projects.
15. Provide and coordinate (lay-out) installation of all access doors required by code, specifications or as reflected on the contract documents. Provide and coordinate (lay-out) as necessary for proper and reasonable access to equipment, piping, valves, etc. Access doors will match associated finishes and fire ratings. Access doors will be minimized by combined usage with associated contractors determining cost allocation.
16. Coordinate all electrical requirements with Electrical Contractor. Provide any electrical power (incl: conduit, wire, devices and connections) required if not reflected on Contract Documents.

#### C. Specific Plumbing Infrastructure Scope

1. The Scope includes furnishing and installing the following items. (The intent of listing scope items is for ease of major scope identification and is not intended to be a complete listing of all items that may be required to complete the scope of work as required by the Contract Documents)
2. Furnish and install all system identification, tags, charts, color-coding, etc. per the Drawings and Specifications.
3. Provide final cleaning and wipe down of all Plumbing Equipment including piping as per Contract Documents. Provide the final cleaning just prior to the Owners first event.
4. Furnish and install vibration isolation equipment for all equipment and piping furnished by the Contract in accordance with Drawings and Specifications.
5. Provide provisions for and supply testing materials to successfully perform all testing of all systems in accordance with the Specifications and local code requirements, to include, but not be limited to, documentation and record keeping as required to certify that tests have been successfully completed. Faulty work shall be repaired and retested at the Subcontractors own expense.
6. Furnish, install and coordinate all piping and connections to Sub-roof systems. Sub-roof contractor to provide Flanged Pipe Sleeves.
7. Furnish and install all interconnecting (integral) wiring for Plumbing equipment. Provide testing of all plumbing systems/pipes per the specifications and Local Authorities requirements.
8. All existing pipe hangers exposed to the elements that are in poor condition will need to be replaced with new stainless steel hangers, rods and inserts. Hangers for copper pipes to be copper plated. Provide isolator pads for all water pipe hangers. Pipe hangers at Level 400 exposed to the weather shall be replaced entirely.
9. Furnish and install all pipe insulation required by the Contract Documents and local code.

## Miami Dolphins Stadium Renovations

### BP- 5 Plumbing Infrastructure

Published: 9-22-14

10. Furnish, install and coordinate all underground piping must be coordinated with the structural drawings to ensure that elevations do not conflict with new footings. All underground piping outside the building "footprint" will be routed to and "connected to" associated structures as identified on Civil Drawings Documents. See Civil drawings for piping type, location, etc.
11. Furnish and install all isolation, throttling, gate, globe, check, emergency shut-off, vent, regulating, mixing, relief, multi-purpose and automatic valves as required by the Contract Documents.
12. Furnish and install all strainers, pressure gauges, thermometers, expansion joints, flexible piping and tubing connections, pipe sleeves, traps, vacuum breakers, air vents, test ports, flow meters, strainers, connectors and other piping specialties as required by the Contract Documents.
13. Furnish, install and coordinate all roof drains and piping from canopy structure. Coordinate installation and location of roof drains with the steel and canopy subcontractor.
14. Furnish, install and coordinate all piping from canopy structure and canopy structural columns. Confirm locations of piping within structural columns with structural documents.
15. Furnish and install all gas piping. This includes all piping on building side of gas meter, distribution through building and connections to all equipment utilizing gas.
16. Coordinate with Field installer for locations, required feeds, pump locations, tie-ins, etc. for the installation of the field drainage system and field irrigation system.
17. Cap all work: vent stubs during construction to keep sewer gas out of the building.
18. Subcontractor has included area drains, drain bodies, and piping sleeves for the precast as shown in detail C/P9-03. Subcontractor shall have representative at precast plant to observe, inspect, and verify installation of items embedded into precast to ensure proper installation.
19. Subcontractor shall be responsible for protecting all drain lines during construction to ensure that the lines remain free from blockage. Immediately before substantial completion, subcontractor shall check each drain line to ensure that it is not blocked or plugged. If drain line is blocked or plugged, subcontractor shall free pipe of blockage. Subcontractor shall operate and maintain plumbing systems until substantial completion of the work
20. Cap and make ready for removal the existing Booster pump located in quadrant 'B' with a new comparable booster pump system as located quadrants C and D. The existing Booster pumps located in quadrant 'C' and 'D' are in good working condition and do not require replacement at this time and are to remain.
21. Coordinate the new booster pump in quad 'B' to operate in conjunction with booster pumps in quad 'C' and 'D' in an alternating mode. All pumps will operate as needed to supply water demand as necessary.
22. The cold water distribution system shall be supplied by (3) booster pump systems each with new 6" copper riser located in quadrant 'B', 'C' and 'D'. These

## Miami Dolphins Stadium Renovations

### BP- 5 Plumbing Infrastructure

Published: 9-22-14

- risers shall supply water to 6" main distribution loops located at Level 100 and Level 400.
23. Demo and remove all existing galvanized water piping and risers from Level 000 to Level 400 and replace back to existing copper branch piping. Replace existing valves at copper branch pipes with new valves.
  24. Provide and install in all new work areas at all levels with copper piping and valves.
  25. Provide and install manual valves to the domestic water distribution loop located at Level 100 and Level 400 to provide (8) isolation zones ((2) isolation zones per quadrant)
  26. Coordinate the connections of the distribution loop at Level 100 to feed levels 000, 100, 200 and supply water to each of the 8 zones at these levels. Reconnect new copper piping to the existing branch piping and new work areas at each level.
  27. Provide and install new distribution loop at Level 400 to supply water to each zone at levels 300 and 400 and feed existing copper branch pipes and/or new work areas.
  28. Provide and install manual valves for the hot water distribution loop located at Level 100 and provide (8) isolation zones ((2) isolation zones per quadrant) each zones at Level 100 will have branch piping popping up and down to feed Levels 000, 100, 200 and Level 300. Reconnect new copper piping to the existing branch piping and new work areas at each level.
  29. Provide and install the main hot water return loop at Level 100. All hot water branch piping within each of the of the (8) zones shall be connected to the main H.W.R. loop at Level 100 with a 1 1/4" H.W.R. pipe and balancing valve
  30. All Hot and Hot water return piping will be insulated as per code.
  31. Cap and make ready for removal of the existing (2) 1,000,000 BTU Boilers and (2) 12,500 gallon storage tanks. This existing Boiler system shall be replaced with a new boiler system, storage tanks and hot water recirculation pumps comparable to the existing boiler system. This system serves the Levels 000, 100, 200.
  32. Provide and install the new hot water distribution system which will be supplied by New Domestic Boiler system located at level 000 and will serve all the required hot water to the existing areas, concession stands and any new additions to the existing facility on Levels 000, 100, 200 and 300. 29. This hot water main from the new boiler will be a new 6" copper pipe and riser and will supply hot water to a 6" main distribution loop located at Level 100.
  33. Furnish and install all interconnecting (integral) wiring for Plumbing equipment. Provide testing of all plumbing systems/pipes per the specifications and Local Authorities requirements.
  34. Hot Water supply for the Level 400 will be supplied from existing and new electric instahots as identified on drawings.
  35. Demo and remove existing Gas distribution piping at Level 000 and provide and install a new 4" gas pipe loop installed at level 100.
  36. The new Gas distribution system will supply gas to the New Domestic Boilers systems located at level 000 will serve all the required gas to the existing areas, concession stands and any new additions to the existing facility.

## Miami Dolphins Stadium Renovations

### BP- 5 Plumbing Infrastructure

Published: 9-22-14

37. The Gas main from the meters will be New 4" pipe and riser. the new 4" gas riser shall supply gas to the new 4" main distribution loop located at Level 100. Gas pipe loop at Level 100 will have branch piping popping up and down to feed Levels 000, 100, 200, 300 and Level 400.
38. Provide and install (2) new 2" risers from Level 100 up to Level 400 and connect to new gas loop for service of concession stands above.
39. Provide and install new drain grates at level 400 Level. New drain grates will be provided with new vandal proof bolts/screws over existing drain body.
40. Provide and install new horizontal storm drain piping to the drain body including new stainless steel inserts, hangers and clamps. All existing piping, hangers and clamps to be demo and removed.
41. Provide and install insulation on all existing and new Storm Piping and interior spaces.
42. Provide and install to existing condensate systems two (2) new 2" condensate drain risers per Quadrant and connect to existing condensate collection system. Reconnect or cap off condensate pipe from any relocated or deleted A/C units to existing condensate system and add new 1" minimum CPVC pipe from New A/C units to existing or new condensate risers.
43. Relocate all piping to Ice Machine Drains into the condensate drain system. Provide insulation.
44. Provide and install new grease waste piping as reflected on contract documents. Grease waste piping to be cast iron piping. Grease piping that exceeds 75 ft. in length needs to be wrapped with heat tape and insulated. Existing grease waste piping that is PVC piping that exceeds 75 ft. needs to be replaced with cast iron piping and wrapped with heat tape and insulated.
45. Provide and install new (5) 100 gpm sump pumps in existing elevator pits. Provide new 6" hub drains and new oil and sand interceptors to sanitary system as required. Existing elevator sump pumps are to be capped and make ready for removal.
46. Provide and install new (4) 100 gpm sump pumps in existing escalator pits. Provide new 6" hub drains and new oil and sand interceptors to sanitary system as required. Existing elevator sump pumps are to be capped and make ready for removal.
47. Coordinate drains for fire protection systems with fire protection contractor during the design and shop drawing phases to try to avoid creating tripping hazards and where able to, installing the pipe in an aesthetically acceptable manner. Plumbing Subcontractor is ultimately responsible for locating the floor drains.



**BID PACKAGE SBD INFORMATION SHEET**

**Miami Dolphins**

**Hunt Construction Group**

**Date: 9/26/14**

**Bid Package: # 5**

**BP Package Name: Plumbing Infrastructure**



**HUNT**  
An AECOM Company

HUNT Construction Group, Inc. - An AECOM Company

2 Oakwood Blvd., Suite 125

Hollywood, Florida 33020

Phone: (305) 325-0577 Fax: (305) 325- 0765

[www.aecom.com](http://www.aecom.com)

[www.huntconstructiongroup.com](http://www.huntconstructiongroup.com)

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
Plumbing Equipment (Pumps)	Equipment and Installation	None	\$200,000	\$200,000	\$0	\$0	\$0
Water, Waste and Storm Piping	Material and Installation	Branch Piping	\$3,100,000	\$2,800,000	\$0	\$300,000	\$300,000
Insulation	Material and Installation	Insulation	\$450,000	\$400,000	\$0	\$50,000	\$50,000
Valves / Specialty Fittings	Material and Installation	None	\$200,000	\$200,000	\$0	\$0	\$0
Firestopping	Material and Installation	Firestopping	\$50,000	\$0	\$0	\$50,000	\$50,000
<b>Percentage of CSBE:</b>			<b>10.00%</b>	<b>\$3,600,000</b>	<b>\$0</b>	<b>\$400,000</b>	<b>\$400,000</b>