

SCOPE OF WORK

1. **THE WORK:** The Work included in this Agreement is all required **Concrete Work**, in complete accordance with the Plans and Specifications as defined in Exhibit "A". The entire Specification is included. Subcontractor shall be fully responsible to coordinate and complete the work in strict accordance with specific reference to the following sections:

**Bid Package No. 2 – FIS Connector – Concrete Work
Division 1 through 16 – (As applicable)**

2. **Specific Scope of Work Inclusions:** The Subcontractor's Scope of Work shall include, but is not limited to, all materials, labor, supervision, hoisting, expediting, engineering, equipment, erection, shoring, scaffolds, tools, and all other items required to furnish and install the following:
 - A. Scope of Work includes, but is not limited to, the furnishing and installation of all **cast-in-place concrete work** including, but not limited to, footings, foundations, concrete columns, concrete beams, thickened edges, concrete pads, thickened slabs, concrete pilasters, compressible fillers, joint sealants, housekeeping pads, PCC pavement, slab-on-grade, concrete over metal deck, elevated concrete slabs, Styrofoam, concrete ramps, reinforcing steel, dowels and epoxy, grout (including structural steel base plates and elevator sills), concrete curing, formwork, chamfer strips, vapor barrier, crack joints, construction joints, expansion joints and accessories.
 - B. Subcontractor shall perform all PCC pavement work including but not limited to bond breakers, econcrete base course, porous aggregate blankets, filter fabric, dowels, baskets and WWF.
 - C. Subcontractor shall perform soil treatment and termite control per specification section 02281.
 - ~~D. Furnishing of anchor bolts per 5/S201 is included.~~
 - E. Installation the pipe railing at the concrete ramp per drawing sheet A110 is included.
 - F. Subcontractor shall over excavate all footings and foundations one (1) foot and backfill with one (1) foot of No. 57 in accordance with the contract documents.
 - G. Subcontractor shall perform all proposed pavement marking painting.
 - H. Subcontractor shall perform concrete infill of metal pan stairs.
 - I. Subcontractor shall remove and relocate precast concrete stairs including but not limited to chipping existing topping slabs, removing existing aluminum railings, placing new topping slabs and reinstalling existing aluminum railings.
 - J. Subcontractor shall furnish and install a turnkey fencing system in accordance with the contract documents. This includes but is not limited to two (2) double gated openings, flashing lights at top of fence, silt fence at bottom of fence, sand bags, removal of the fence at the completion of the project and grouting of cored holes after removal of fence.
 - K. Subcontractor is responsible for any sheet piling that may be required to perform this scope of work.
 - L. This scope of work includes all concrete column encasements and the installation of the corner guards at each of these columns. The corner guards will be supplied by others.
 - M. Subcontractor shall perform all underground waterproofing work. This work includes but is not necessarily limited to all joint strips, preformed waterstops, protection board, fasteners and termination bars to provide a complete watertight system in accordance with the Contract Documents.

- N. Subcontractor shall perform all light weight concrete on elevated decks.
- O. Subcontractor understands and agrees that the site will not be graded to bottom of slab. Subcontractor has included all rough and final grading to complete this scope of work. If needed, additional fill will be supplied on a unit price basis.
- P. Subcontractor shall accumulate and remove spoils off site.
- Q. Included in this scope is all soft digging in close proximity to utilities.
- R. Subcontractor is responsible to provide all structural excavation, backfill, compaction, dewatering, rough grading, fine grading, and concrete curing to complete this scope of work.
- S. It is understood and agreed that this scope of work includes all required ordering, unloading, hoisting, handling, sorting, placement, inventory, rebar caps and tie-wire necessary for reinforcing steel, dowels, deformed bars, tie bars, accessories, and wire mesh placement. Subcontractor is to provide all necessary supports of the reinforcing steel and/or mesh with contact with the earth as required by the contract documents.
- T. All tooled joints, saw cut joints, construction joints and key ways required for this scope of work are the responsibility of this Subcontractor **including installing all sealants in concrete joints per Contract Documents.**
- U. Included in this Agreement are all costs associated with the placement of concrete including pumping, vibrators, concrete buckets, etc..
- V. Subcontractor is responsible for receipt, handling, layout and installation of embeds, block outs, anchor bolts, etc. in cast-in-place concrete work. The embeds and anchor bolts are to be supplied by others unless otherwise specifically included.
- W. Subcontractor shall provide form release agents as required. Secure the approval from the Architect/Engineer prior to use of any release agents. Any non-compatibility problems with the form release agents associated with subsequent materials being placed over completed concrete shall be the responsibility of this Subcontractor.
- X. The breaking off of all ties and cutting back of all ties and nails protruding through forms is included in the Subcontract and shall be done immediately after the formwork stripping operation and all debris shall be removed from the area and deposited in dumpsters provided by others.
- Y. Subcontractor is responsible for restabilization of existing subgrade that may occur to adjacent property as a result of this subcontractor's operations.
- Z. Subcontractor shall protect any surfaces from damage caused by subcontractor's own work.
- AA. This scope of work includes all additional concrete required for the increased topping depth on elevated decks due to deflecting areas of the structural steel supporting members.
- BB. Prior to the start of construction this subcontractor shall participate in a meeting with BB-ACI, RS&H, and the owners Geotechnical Firm to establish a Quality Control Program relating to all work to be performed under this agreement. The program shall include, but is not limited to a method for verifying suitability of soils, controlling quality and consistency of concrete, the method and sequence of placement and concrete finishing, establishing grades and all other items required by the contract documents.
- CC. Coordinate required testing with the testing lab through Owner/Contractor. Additionally, Subcontractor is required to coordinate and directly contact both the testing and inspection

agency twenty-four (24) hours prior to the work. Any retesting due to failures or standby time for the testing lab will be paid for by this Subcontractor.

- DD. Subcontractor is responsible for the proper adequacy and structural design of all formwork including shoring, bracing and scaffolding as required and shall insure that the installation of all formwork shall be done in such a manner as to prevent from failure. When stripped, all concrete shall be true, level and perpendicular to surfaces as required by the Contract Documents.
- EE. BB-ACI will provide subcontractor with benchmark elevations and established control points. Subcontractor shall provide all layout for this work and installation of grade stakes to achieve all finished elevations and contours required for the performance of this work. Subcontractor shall also provide asbuilt information of the installed anchor bolts and footing, including top of footing elevation and anchor bolt spread in relation to column lines within three (3) days of construction. Setting of one (1) leveling nut at each column is included. This subcontractor is to notify BB-ACI immediately of any discrepancies from the approved structural steel shop drawings or Contract Documents.
- FF. Subcontractor shall coordinate installation of this Scope of Work with the Work of other trades to ensure conformance with the requirements of the Contract Documents. Conflicts arising from this Subcontractor's failure to coordinate will be the responsibility of this Subcontractor to resolve. This includes multiple mobilizations as required due to multiple project phases.
- GG. Subcontractor shall provide BB-ACI with a signed concrete placement sign off form prior to the placement of concrete. Signatures required on the placement sign-off form include but not limited to RS&H, Geotechnical Firm and any other subcontractor required by BB-ACI.
- HH. Subcontractor will ensure there is no unsecured Foreign Object & Debris (FOD) present on jobsite from this Subcontractor's work.
- II. Subcontractor shall provide and control any dewatering necessary in the excavations to complete this Work. Subcontractor shall provide all pumping of surface and rain water, control and maintain site water runoff and discharge from subcontractor's work areas in accordance with applicable codes. Well-points are **excluded**.
- JJ. This Subcontractor will provide continued protection while performing this work. This is to specifically include, but is not limited to, protecting neighboring surfaces during placement of the concrete and especially where the area to be placed is in direct contact with an adjacent concrete surfaces. Subcontractor shall immediately clean the adjacent surface free from all debris, slurry, and concrete residue from existing surfaces on a daily basis
- KK. Subcontractor shall hose or wash clean surfaces after drilling, sawing, chipping and demolishing. Care shall be exercised not to interfere with other work in the area, or damage to existing work.
- LL. Subcontractor will be responsible to contact "Sunshine Location Service" (811) prior to starting work for verification of all existing utilities. Subcontractor further understands that he will be responsible for the protection and care of all existing utilities. Subcontractor shall immediately notify Balfour Beatty-ACI upon the location of any underground utilities not previously identified.
3. The following labor rates / unit prices shall be held firm for the duration of the project. Labor rates / unit prices are in accordance with the Special Provisions, paragraph three (3). Unit prices shall include all trucking, hauling, loading, unloading, backfill, fine grading, compaction, disposal, taxes, insurance, overhead and profit for a complete unit price.
- A. Labor Rate - Superintendent / Foreman \$XX.00 / hour

B. Labor Rate - Skilled Worker \$XX.00 / hour

C. Labor Rate - Laborer / Helper \$XX.00 / hour

D. Unit Price No. 1 – Unsuitable Material \$XX.00 / cubic yard

Removal and disposal of unsuitable material to a legal off site location as measured in place.

E. Unit Price No. 2 – 57 Stone \$XX.00 / cubic yard

Provide additional no. 57 stone fill material placed in accordance with the specifications as measured in place.

F. Unit Price No. 3 – Suitable Material Fill \$XX.00 / cubic yard

Provide additional suitable fill material.

G. Unit Price No. 4 – Fencing \$XX.00 / linear foot

Furnish and install additional fencing in accordance with the Contract Documents.

Mobilization Rate for Additional Fencing \$XX.00 / mobilization

4. Subcontractor shall **exclude the following from this scope of work:**

A. Temporary walls.

B. The low profile barricades and associated electrical per 6/C008.

C. Furnishing of all anchor bolts. Installation is still included.

D. Furnishing and installation of new railings at precast stairs. Removal and reinstallation of existing railings is still included.

E. Maintenance of fence and flashing lights.