Notice is hereby given to all prospective bidders that plans and specifications on the subject project are modified as hereinafter set forth. This Addendum shall be attached to and form a part of the plans and specifications. All bidders must acknowledge receipt of this addendum on the Bid Form. In case of difference with previous addenda or communications, this addendum takes precedence.

It is the responsibility of all bidders to notify all subcontractors from whom they request bids and from whom they accept bids of all changes contained in this addendum.

PROJECT MANUAL

1. **Item No. PM-1**
   
   **Reference:** Section 00 01 09 – DSA Testing and Inspections Sheet
   
   **Description:** Replace the “Auger Cast Pile Testing & Inspection Requirements” attached to the DSA 103 form with the revised “Auger Cast Pile Testing & Inspection Requirements”. All other items in the DSA 103 form remain unchanged.

2. **Item No. PM-2**
   
   **Reference:** Section 00 73 00 – Special Conditions
   
   **Description:** Revise the following:
   
   a. Under 1.2, Description of Phase 2B, add item no. 4: Contractor to provide a 40 cubic yard dumpster to be located north of the new interim relocatables. At the end of Phase 2C, the contractor will be required to off-haul the debris and the dumpster.
   
   b. Under 1.3, Description of General Phasing Requirements, revise item D to read: The school will remain open during the academic year. The Work of this project must take into account that the site will be occupied by students and will be phased as generally described above and in other contract documents. Refer to the attached 2017-18 and 2018-19 SFUSD TK-12 Instructional Calendars.
   
   c. Under 1.3, Description of General Phasing Requirements, revise item I.2 Student Testing to read: 20 days between April 22, 2019 and May 17, 2019.
3. Item No. PM-3
   Reference: Section 05 50 00- Metal Fabrications
   Description: Revise the following:
      a. Under 2.3 (F) - The precast concrete treads and landings shall have a sandblasted finish. Contractor to provide a minimum 12" x 12" sample for Architect approval prior to fabrication.
      b. Under 2.4(B) - Standing Railing Infill Panels. The perforated panels will be provided on 11 ga. aluminum panels, 1/2" round holes on 11/16" staggered pattern, with 56% open area as manufactured by 'McNichols' or acceptable equal. The railing infill panels are to match the exterior fencing infill panels.

4. Item No. PM-4
   Reference: Section 10 14 00 Signage
   Description: Provide (2) two 12" high aluminum exterior metal dimensional letters to be provided by Gemini Sign Letters or approved equal at a location to be determined by the Architect. The material is to be ASTM B209 water jet cut aluminum plate or ASTM B26/B26M cast aluminum. The font is Helvetica Medium, 1 inch thick, 5/8 inch thick strokes in factory paint finish in a color selected by the Architect. The letters are to be mounted approx.10’ AFF to the substrate with metal studs threaded into the letters and silicone adhesive.

5. Item No. PM-5
   Reference: Section 31 63 23- Drilled Concrete Piles
   Description: Delete this spec section in its entirety. The scope of this section is to be provided in the auger cast piles section included in this addendum.

6. Item No. PM-6
   Reference: Section 31 63 16- Auger Cast Piles
   Description: Add this specification section in its entirety.

7. Item No. PM-7
   Reference: Section 33 31 13- Chain Link Fences and Gates
   Description: This is to clarify that additional gate hardware is provided in the Gate Schedule on sheet A1.03.

DRAWINGS

1. Item No. AD1-1
   Reference: ALL CIVIL DRAWINGS
   Description: The contractor is responsible to provide the scope described in Appendix ‘A’- Hazardous Materials, for the extent of hazardous materials indicated and the protocol for the demolition, handling and removal of these materials.

2. Item No. AD1-2
   Reference: DRAWING C4.0- DEMOLITION PLAN
   Description: Revise the following:
a. Revise the Demolition Note #7 to read, “Remove existing playground equipment. Salvage the existing ADA surfacing and provide to the District”.

b. The contractor is to salvage the existing bike rack adjacent to the existing NW relocatable and install at a location to be determined by the Architect.

3. Item No. AD1-3
   Reference: DRAFTING C5.0- SURFACE IMPROVEMENT PLANS
   Description: Replace this sheet with the attached sheet C5.0. Only the areas clouded and noted as delta 1 have been revised.

4. Item No. AD1-4
   Reference: DRAFTING C6.0- GRADING PLAN
   Description: Replace this sheet with the attached sheet C6.0. Only the areas clouded and noted as delta 1 have been revised.

5. Item No. AD1-5
   Reference: DRAFTING C6.1- GRADING ENLARGEMENT
   Description: Replace this sheet with the attached sheet C6.1. Only the areas clouded and noted as delta 1 have been revised.

6. Item No. AD1-6
   Reference: DRAFTING C7.0- UTILITY PLAN
   Description: Replace this sheet with the attached sheet C7.0. Only the areas clouded and noted as delta 1 have been revised.

7. Item No. AD1-7
   Reference: DRAFTING C10.0- DETAILS
   Description: Replace this sheet with the attached sheet C10.0. Only the areas clouded and noted as delta 1 have been revised.

8. Item No. AD1-8
   Reference: DRAFTING A1.03- SITE DETAILS- FENCING AND GATES
   Description: This is to clarify that the perforated metal screens noted on this sheet are 11 ga. aluminum panel with all other description remaining the same.

9. Item No. AD1-9
   Reference: DRAFTING A2.01- FLOOR PLAN-LEVEL 1
   Description: Revise the following:
      a. Delete the wall mounted activator shown at Door 106A. This is only required at Door 116, the primary entrance to the building.
      b. This is to clarify that there are wall mounted, short throw projectors in all rooms in the project except for the Fitness Classroom which has a ceiling mounted projector. These projectors are dashed on the floor plans and identified in the Legend.
10. Item No. AD1-10

Reference: DRAWING A2.04B- FINISH FLOOR PLAN-LEVEL 1

Description: The Signage Legend indicated on this sheet applies to the signage references located on sheets G0.03, G0.04, G0.05, and G0.06. Disregard the signage references shown on sheet 2.04B and 2.04C.

11. Item No. AD1-11

Reference: DRAWING A2.05- DOOR SCHEDULE

Description: Change the hardware group for door 106B from group ‘01’ to group ‘02’.

12. Item No. AD1-12

Reference: DRAWING A4.01, LARGE SCALE VIEWS- RESTROOM

Description:


b. Enlarged Plan 2. Change the plan title to Boy’s Restroom 119 and 215. Refer to the interior elevations for toilet accessories.

c. Enlarged Plan 3. Change the plan title to Toilet 118 and 214. Revise the enlarged plan per attached. AD1-SK1. Refer to the interior elevations for toilet accessories.

13. Item No. AD1-13

Reference: DRAWING S1.01- SLAB PLAN- LEVEL 1

Description: Revise the depth of the slab depression in the Gymnasium from 3” to 3-1/4” for the wood athletic flooring. The contractor is responsible to coordinate this depth with the flooring manufacturer.

14. Item No. AD1-14

Reference: DRAWING E3.1- POWER PLAN-LEVEL 1

Description: Provide the electrical requirements for the wall mounted door activator at Door 116 as located on sheet A2.01 and described in specification section 08 71 13- Automatic Door Operators.

END OF ADDENDUM ITEMS

ATTACHMENTS:

Project Manual:
- Auger Cast Pile Testing & Inspection Requirements 2 Pages
- SFUSD TK-12 Instructional Calendar 2017-2018 1 Page
- SFUSD TK-12 Instructional Calendar 2018-2019 1 Page
- Division 31 63 16, Auger Cast Piles 5 Pages

Drawings:
- C5.0, Surface Improvement Plans 1 Page
- C6.0, Grading Plan 1 Page
- C6.1, Grading Enlargements 1 Page
- C7.0, Utility Plan 1 Page
- C10.0, Details 1 Page
- AD1-SK1 1 Page
Auger Cast Pile Testing & Inspection Requirements

Auger Cast Piles are acceptable for use on school buildings in accordance with CBC Section 1810A.4.8. Quality Control testing requirements prior to and curing construction for these types of pile are critical and must be fully defined on plans and/or specifications. The pile design capacity shall be based on the geotechnical engineering analysis and the pile testing requirements shall be per the geotechnical report. In addition, the testing requirements shall not be less than as follows:

Preproduction Pile Testing:

Preproduction (Test) Piles to verify analysis capacity shall be tested for each load condition below: one (1) for each soil profile, for each load condition, size, and depth of pile. For the Claire Lilienthal School (Scott Campus) Classroom & Gymnasium Building, it has been determined that there are two (2) soil profiles, and one (1) pile type (load condition, size & depth). Test loads shall be 2.0 times the design load based on allowable stress load combinations in CBC 1605A.3 for all load tests. If any preproduction pile fails to meet the load and deflection criteria stipulated, the design professional(s) in charge shall propose remedial action.

1) Static Axial Compression (ASTM D1143) -- Per CBC 1810.3.3.1.2. Test two (2) preproduction piles.

2) Static Later (ASTM D3966) -- Per CBC 1810A.3.3.2. Test one (1) preproduction pile.

The allowable axial compression design load for the pile type used in this project is 77 kips. 2.0 times 77 kips = 154 kips (or 77 tons.) The allowable lateral design load for the pile type in this project is 7.4 kips. 2.0 time 7.4 kips = 14.8 kips (or 7.4 tons). The piles in this project are not subjected to tension loading.

Production Pile (Non-destructive) Testing:

1) Pile Load Testing: Static load test 2% of all piles for compression, 2 minimum, per methods indicated above.
Alternatively, for axial compression load condition, test 10% of all piles utilizing High-Strain Dynamic testing (ASTM D4945); frequency may be reduced for sites with a large quantity of piles and low soil variability on site as determined by geotechnical engineer of record.

2) Pile Integrity Testing: Pile integrity testing is required on all piles. Ultrasonic Crosshole Testing (ASTM D6760), California Test 233 - Gamma-Gamma Test Method, or other pile integrity testing methods with the acceptance of DSA.

The following provisions apply to Production Piles testing:

- If any pile is found defective, then additional piles shall be tested at the discretion of the geotechnical and structural engineers, and DSA. The contractor may propose additional testing of the defective pile to evaluate for either repair or replacement.
- Constant inspection by a qualified firm/laboratory with experience in auger cast piles. The individual performing the observation must have a minimum of 8 years inspecting auger cast piles.

The individual shall record:

- Grout pressure at head of auger at designated intervals (every 5 ft. maximum of pile height).
- Volume of grout placed under pressure at designated intervals (every 5 ft. minimum of pile height).
- Flow of grout from supply trucks.
## Instructional Days by Month

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<th>Notes</th>
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<td>Aug</td>
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<td>Spring Semester – 99</td>
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<tr>
<td>Sept</td>
<td>17</td>
<td>Total Instructional Days – 180</td>
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<tr>
<td>Oct</td>
<td>21</td>
<td>Total Work Day – 1</td>
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<tr>
<td>Nov</td>
<td>22</td>
<td>Professional Development Days – 3</td>
</tr>
<tr>
<td>Dec</td>
<td>4</td>
<td>Total Service Days - 184</td>
</tr>
</tbody>
</table>

### Legend
- **Recess/Break**
- **Holiday**
- **Staff Development Day(s)**
- **1st & last day of school**
- **Teacher work day**
- **School Site Holidays**
# TK-12 INSTRUCTIONAL CALENDAR
## 2018-2019

### Instructional Days by Month

<table>
<thead>
<tr>
<th>Month</th>
<th>Days</th>
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<tbody>
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<td>Jul</td>
<td>0</td>
<td>Jan 18</td>
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<td>Aug</td>
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<td>Fall Semester – 82 days</td>
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<td>Mar 16</td>
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<td>Oct</td>
<td>22</td>
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<td>15</td>
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<td>15</td>
<td>Total Work Day – 1</td>
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<tr>
<td></td>
<td>16</td>
<td>Professional Development Days – 3</td>
</tr>
<tr>
<td></td>
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SECTION 31 63 16
AUGER CAST PILES

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:
   1. Reinforced concrete piling installed by auger cast methods, deriving their support from friction in Young Bay Mud.

1.2 RELATED SECTIONS

A. Section 03 30 00 “Cast-In-Place Concrete”.
B. Section 03 20 00 “Concrete Reinforcing”.

1.3 REFERENCES

A. California Building Code 2016 (CBC)
B. FHWA-HIF-07-03, “Geotechnical Engineering Circular No 8, Design and Construction of Continuous Flight Auger (CFA) Piles” (GEC 8)

1.4 SUBMITTALS

A. Shop Drawings: For concrete reinforcement detailing fabricating, bending, and placing. See Section 03 20 00.
B. Design Mixes: See Section 03 30 00, as modified by Article 2.2 “CONCRETE/GROUT MIX” of this Section.
C. Auger Cast Pile contractor’s qualifications. Include information required to document experience required in Quality Assurance Article.
D. Procedural Submittal.
E. Cross-hole sonic logging equipment and procedures.
F. Osterberg cell equipment and procedures.

1.5 QUALITY ASSURANCE

A. Auger Cast Pile Standard: Comply with provisions GEC 8 unless modified in this Section.
B. The Auger Cast Pile Contractor shall be a company that specializes in installing deep foundation elements, with a minimum of 8 years of documented successful experience in the installation of auger cast piles. Installation shall be performed by skilled workmen thoroughly experienced in the necessary execution.
1. The auger cast pile contractor’s foreman shall have a minimum of 8 years of experience in the installation of auger cast piles.

C. Procedural submittal shall include detailed information regarding personnel, equipment, and procedures for drilling, grouting, and placement of reinforcing steel, including provisions for ensuring that the minimum pile diameter is maintained throughout the length of the pile.

1.6 PROJECT CONDITIONS

A. Site Information: A geotechnical report dated November 16, 2016 and Revised July 19, 2017 and July 20, 2017 has been prepared by The San Francisco Unified School District’s Geotechnical consultant, ENGEIO, for this project. This report is made available for information only.

B. Anticipate that obstructions will be encountered in the fill. Pre-drill as needed to clear obstructions.

C. Locate existing underground utilities before drilling. If utilities are to remain in place, provide protection from damage during drilling operations.

1. Should uncharted or incorrectly charted piping or other utilities be encountered during excavation, adapt drilling procedure if necessary to prevent damage to utilities. Cooperate with Owner and utility companies in keeping services and facilities in operation without interruption. Repair damaged utilities to satisfaction of utility owner.

1.7 INDICATOR PROGRAM (PRE-CONSTRUCTION)

A. A minimum of three indicator piles shall be installed in locations selected by the geotechnical engineer.

B. Each indicator pile shall be fitted as required for cross-hole sonic logging to verify pile cross-section along the entire length of the shaft.

C. After an appropriate curing period, two piles shall be tested in compression axial load and one in lateral load in accordance with ASTM D1143 and ASTM D3966 respectively.

1.8 PROOF TEST PROGRAM

A. Refer to requirements of Form DSA-103 “Structural Tests and Special Inspections.”
1. Compressive Strength (28 Days) 5000 psi minimum.

2. Maximum size aggregate: 1/2 inch.

3. Maximum water/cementitious materials ratio: 0.42.

4. Slump: As needed for pumping through the auger and for wet-setting reinforcing steel cage. Concrete or grout mix shall be designed to prevent settling of the aggregates.

5. Do not air entrain concrete for piles.

2.3 CONCRETE MIXING

A. Section 03 30 00 for ready mix concrete.

B. Site mixed grout shall be proportioned on the basis of volume.

PART 3 - EXECUTION

3.1 PREPARATION

A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, vibration, and other hazards created by drilled-pier operations.

3.2 INSTALLATION

A. Notify and allow Owner's geotechnical engineer to observe installation continuously.

B. Install piles to the minimum depth indicated on the structural drawings, as modified by the results of the indicator program.

1. Drilling shall be carefully controlled to keep the auger full at all times.

2. Grouting and withdrawal of the auger shall be carefully controlled to keep the hole filled and a minimum of 12 feet of head on the concrete/grout at all times.

3. Clean concrete at top of pile to sound concrete without laitance or soil contaminants.

C. Tolerances: Construct piles to remain within tolerances, as follows:

1. Plumbness of shaft: 1.5% of depth.

2. Plumbness of reinforcing steel gage: 1.5%.

3. Location at top: 2 inches maximum in each direction.

4. If location or out-of-plumb tolerances are exceeded, provide corrective construction. Submit design and construction proposals to Architect for review before proceeding.
D. Inspection: Installation will be observed continuously.
   1. Provide and maintain facilities with equipment required for observing and inspecting excavations. Cooperate with testing and inspecting personnel to expedite the Work.
   2. Notify Owner’s representative at least 24 hours before excavations are ready for any inspections.

3.3 STEEL REINFORCEMENT
A. Comply with recommendations in CRSI’s "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.
B. Clean reinforcement of loose rust and mill scale, earth, and other materials that reduce or destroy bond with concrete.
C. Fabricate reinforcing cages symmetrically about axis of shafts in a single unit.
D. Reinforcing steel cage shall be fitted with spacers to maintain the required clearance indicated.
   1. Limited vibration may be used to assist in installation of the cage.
E. Protect exposed ends of extended reinforcement, dowels, or anchor bolts from mechanical damage and exposure to weather.

3.4 FIELD QUALITY CONTROL
A. Survey: Contractor shall perform an as-built survey of all piles at completion of installation. Each pile shall be located by elevation, and by horizontal measurements in two directions from the theoretical pile centerline. Measurements shall be to the nearest 1/8 inch.
B. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to sample concrete and perform tests on concrete, and inspect reinforcing steel.
C. The Owner's Geotechnical Engineer will continuously observe the installation of piles in accordance with CBC Table 1705A.8, and will prepare a report as follows:
   1. Actual top and bottom elevations of each pile.
   2. Description of soil materials encountered.
   3. Description, location, and dimensions of obstructions.
   4. Variation of shaft from plumb.
   5. Description of soil or water movement, sidewall stability, loss of ground, and means of control.
   6. Date and time of starting and completing installation.

8. Remarks, unusual conditions encountered, and deviations from requirements.

D. Coordinate and schedule the required inspections and observations, provide access to the work for inspection, and cause the work to remain exposed for inspection.

E. Concrete Sampling and Testing: Section 03 30 00.

F. Inspection of Reinforcing Steel: Section 03 20 00.

3.5 DISPOSAL OF MATERIALS

A. Remove excavated material and legally dispose of it off Owner's property.

END OF SECTION