# EXHIBIT B.1

## Phase 2, Bid Package 11 – Misc. Paving, Pathways and Landscaping

## EXPANDED DESCRIPTION OF BID PACKAGE CONTRACTOR'S SCOPE OF WORK

### Contractual Requirements

A) Summary: The intent of the Contract Documents is that the scope of Work for Bid Package 2.11 shall include all Description of Work for the City College Ocean Avenue Campus as described in the Contact Documents, the Construction Documents and this exhibit.

A) All work shall be completed in compliance with the schedule and durations included in Section 1010 Summary of Work Exhibit B. Bid Package Contractor is advised that the Work of this Contract, bid as part of this Phase, shall occur during several sequences of the construction work. Bid package Contractor to take into account fluctuations of labor and material costs based on the work schedule and durations.

B) Bid Package Contractor, if successful, shall enter into a subcontract with Bovis Lend Lease, Inc. as provided in Section 00530, without modification.

C) Bid Package Contractor acknowledges and agrees that the intent and meaning of the Contract Documents is such that the Bid Package Contractor shall provide installation that is complete with all items, related and/or incidental work, and appurtenances necessary, incidental to or customarily included, even though each and every item may not be specifically called out or shown on the drawings and/or specifications within reason. Additionally, Bid Package Contractor represents and agrees that it has conducted a thorough examination of the Contract Documents (including, but not limited to their sufficiency) and the work to be performed by Bid Package Contractor pursuant to the Agreement will result in fully functional and operable systems and/or installations regardless of whether or not all required work is included or indicated therein. The Scope of Work shall include but not limited to all necessary labor, materials, accessories, equipment, hardware, fasteners, tools, trenching, conduits, wiring, locator tape, backfill, temp power, temp installations, clean-up, daily maintenance, temp installation removals, layout, engineering, supervision, coordination, safety requirements, hoisting, scaffolding, shoring, underpinning, shop drawings, samples, packaging, trucking, freight, delivery, permits, insurance, overhead, profit, fringe benefits, taxes and all other services and charges, and shall be in accordance with the Contract Documents, complete in every respect, for the referenced scope and related work for this project.

D) Bid Package Contractor shall not perform any extra work or expend allowances without prior written notification and approval from Bovis Lend Lease, Inc. Bid Package Contractor will not be reimbursed for any extra work performed without such notifications and approval.

E) Bid Package Contractor understands that information contained and communicated through the construction documents, specifications, prebid meeting, site walks, and reference documents serves only as a diagrammatic representation of the actual conditions that may be encountered during the course of construction. Bid Package Contractor agrees, by nature of submitting a bid for this work, that the information provided is adequate enough to compile a bid that is accurate and all inclusive, and with the exception of an extreme deviation to the information provided will construct and complete this scope of work for the bid price provided.

F) Per the Agreement with the District, all change order overhead is limited to 10% on direct work and 5% profit. All lower tier work is limited to 10% overhead and 5% profit, with a first tier profit of 5% (no additional overhead). See Attachments.

G) Bid Package Contractor acknowledges that he has reviewed all Bid Alternates and provided a quotation for each Alternate affecting his Work. Bid Package Contractor further acknowledges that not providing a quotation for a Bid Alternate is the same as a quotation of "No Cost" for incorporation of the Bid Alternate if the District accepts it.

H) Bid Package Contractor acknowledges that he has reviewed the Preliminary Construction Schedule and has included in his bid all necessary material expediting costs and overtime or shift work required to meet that schedule.

I) The prime contract with the District outlines strict durations for notifications and change order pricing requirements. Subcontractor understands these requirements and agrees that failure to respond within the time required as detailed or requested by Bovis Lend Lease, Inc. will void your ability to recover under the terms of this agreement.
J) Provide Full Time Onsite Superintendent with the required experience and training to execute the job.

1. Project Labor Agreement and Labor Compliance Program

A) Bid Package Contractor agrees to the full requirements of this project's Project Labor Agreement and the requirement for certified payroll. Any penalty assessed by the District, Unions or the State against Bovis Lend Lease for your failure to comply with this requirement will be charged against this contract, including all processing costs, legal fees and additional penalties. Bid Package Contractor is required to sign and include the Letter of Assent with their bid.
B) Bid Package Contractor to read the Project Labor Agreement provided by CCSF found on their website. Within the Project Labor Agreement, the Bid package Contractor is responsible for finding, reading and include in their bid the requirements of all Schedules outlined in the Project Labor Agreement including but not limited Schedule "A" which includes requirements for Collective Bargaining. Please consult the local labor union board for these items. This collective bargaining agreement outlined in each Labor Union's Schedule "A" takes precedent over the prevailing wage requirements of the PLA. Bid package Contractor to check with each labor union to verify the trade assignment and the associated wage and include this wage assignment for the particular work to be performed in their bid. Bovis Lend Lease, City College of San Francisco and their affiliates are not responsible for assigning the particular labor and wage classification to any type of work.
C) Bid Package Contractor is requirements to fulfill all items listed in the Labor Compliance Program including but not limited to payment of prevailing wage rates, manpower restrictions, and payment of fringe benefits as required under the Project Labor Agreement.
D) Bid Package Contractor is required to sign and include the Letter of Ascent with their bid.
E) Please see www.ccsf.edu/build and click on Projects and then Project Labor Agreement for more information.

2. City Build

A) Bid Package Contractor required to fulfill all guidelines set forth by the City and County of San Francisco's City Build Program.

3. Insurance and Bonding

A) The District's Builder's Risk policy allows for a $25,000 deductable on occurrences other than acts of nature. If the Bid Package Contractor is found to have contributed to an action that gives rise to a claim against the Owner's Builder's Risk policy, requiring the District to seek reimbursement from Bovis Lend Lease for the deductable, Bid Package Contractor will in turn reimburse Bovis Lend Lease the full or pro-rated amount of the deductable cost.
B) General Liability Insurance as well as Performance and Labor and Material Bonds executed by a U.S. Treasury Approved Surety with an A.M. Best Rating of "A" or better and a classification of VIII or better (or an equivalent rating by Standard & Poor or Moody's) are required. Payment for bond will be made by Bovis Lend Lease upon submittal of actual invoice from Surety, but in no event will the payment exceed the amount indicated for bonds in the Bid Form.

4. Small Business Enterprise

A) Bid Package Contractor to ensure conformance with the Small Business Enterprise Program (SBE). The SBE Program, as outlined by the City and County of San Francisco Human Rights Commission as well as CCSF, encourages small and local businesses to participate in CCSF's building projects.
B) Each Bid Package Contractor is required to meet the percentage of SBE participation "Goal" for the particular bid package or document a good faith effort showing that the Bid Package Contractor adequately advertised for SBE

participation. Bid Package Contractor to pay particular attention to the length of time required to fulfill a good faith effort, if that is the option chosen. To sign up for SBE certification please visit the City and County of San Francisco's Human Rights Commission website.

C) The participation goal is the percentage of billing to an SBE required by the Bid Package Contractor to itself or its Subcontractors.

D) For more information, please see the City and County of San Francisco's Human Rights Commission City College of San Francisco's SBE guidelines and requirements which can be found at www.ccsf.edu/build and look under Projects and them SLBE Program.

5. Work Hours

A) Typical Work Hours are from 7am – 3pm Monday through Friday.

B) These times may be different from those published with each labor union. Please consult your trade's labor union for particular hours.

6. Licensing Classification

A) License numbers indicated on the Invitation to Bid represent a minimum requirement and are presented for information only. Bidders are instructed to inquire and comply with all State requirements and verify licensing requirements with local labor union for classification of work.

SCOPE OF WORK

A. The scope of work specifically includes, but is not limited to the following:

a. Provide all labor materials, tools, equipment and appurtenances as required to perform the work per the Division 0 – Project Requirements and Division 1 General Requirements –Inclusive. In addition to the requirements of the Project Manual, all of the scope specific work shall be performed pursuant to the Contract Documents. This includes, but is not limited to the following:

SITEWORK

| SPECIFICATION SECTION | SPECIFICATION SECTION TITLE |
|---|---|
| 02230 | Site Clearing, Stripping, and Grubbing |
| 02300 | Earthwork |
| 02510 | Irrigation |
| 02750 | Asphalt Concrete Pavement |
| 02751 | Portland Cement Concrete Paving |
| 02785 | Signs, Object Markers, Traffic Stripes, Pavement Markings and Markers, and Survey Monuments |
| 03301 | Portland Cement Concrete |
| 02510 | Irrigation System |
| 02511 | Decomposed Granite Paving |

| DRAWING SHEET NUMBER | DRAWING SHEET TITLE |
|---|---|
| C0.00R2 | Title Sheet |
| C0.10R2 | Legend, Abbreviations, and Notes |
| C1.10R2 | Existing Topography |
| C1.20R2 | Site Plan |

| | |
|---|---|
| C1.30R2 | Master Grading Plan |
| C1.35R2 | Master Grading Plan For Building Pads |
| C1.40R2 | Master Utility Plan |
| C1.50R2 | Parking Plan |
| C1.60R2 | Typical Cross Sections |
| C1.70R2 | Accessibility Plan |
| C1.80R2 | Site Plan Local Fire Authority Approval |
| C1.90R2 | Hardscape, Landscape and Paving Plan |
| C2.10R2 | Horizontal Control Plan |
| C2.20R2 | Horizontal Control Plan |
| C2.30R2 | Horizontal Control Plan |
| C2.40R2 | Horizontal Control Plan |
| C2.50R2 | Horizontal Control Plan |
| C2.60R2 | Horizontal Control Plan |
| C3.10R2 | Grading Plan |
| C3.20R2 | Grading Plan |
| C3.30R2 | Grading Plan |
| C3.40R2 | Grading Plan |
| C3.50R2 | Grading Plan |
| C3.60R2 | Grading Plan |
| C4.10R2 | Utility Plan |
| C4.20R2 | Utility Plan |
| C4.30R2 | Utility Plan |
| C4.40R2 | Utility Plan |
| C4.50R2 | Utility Plan |
| C4.60R2 | Utility Plan |
| C5.80R2 | Landscape Details |
| C6.10R2 | Erosion Control Plan |
| C6.20R2 | Erosion Control Details |
| | |
| Exhibit 1 of 1 | Drainage Exhibit at South Property Line – Swale In Kragen Lot |
| Sheet 2 of 2 | Rough Grading Parking Plan Sequence – March 2009 |
| | |
| E0.1 | Legends, Notes, Symbols and Abbreviations |
| E0.2 | Title 24 Compliance |
| E0.3 | Electrical Schedules and Single Line Diagram |
| E1.1 | Electrical Site Plan Underground Runs (12kV) |
| E1.2 | Site Plan – Lighting |
| E5.1 | Electrical Details and Layouts |
| E5.2 | Electrical Details |
| E5.3 | Electrical Details |
| E6.1 | Electrical Single Line Diagram |
| E8.1 | Electrical Schematic Diagram |
| ET1.1 | Communication Site Plan |
| ET5.1 | Communication Typical Underground Details |
| | |
| CUP DRAWING SHEET NUMBER | DRAWING SHEET TITLE |
| CPE.01 | Legend, Abbreviations, Symbols and General Notes |
| CPE0.2 | Electrical Schedules and Single Line Diagrams |
| CPE2.0 | Electrical Basement Floor Plan |
| CPE5.1 | Electrical Details |

B. INCLUSIONS:

1. Cal OSHA Requirements

a. Bid Package Contractor understands that all the work will be performed in accordance with Cal OSHA standards and is subject to unannounced OSHA inspections.
b. Some of Bovis Lend Lease Inc. safety requirements are stricter than Cal OSHA's requirements. Bid Package Contractor to verify with Bovis' Global Minimum Requirements.
c. Bid Package Contractor to maintain updated annual permit requirements per Cal OSHA and deliver a copy to Bovis Lend Lease at start of work and throughout construction.

2. Mobilization and Demobilization

a. As part of the Bid Package, the Bid Package Contractor is responsible for mobilization and demobilization according to schedule coordinating the staging, parking, trailers if needed and lay down areas as provided by Bovis Lend Lease, for a length of time designated by Bovis Lend Lease.

3. Daily Reports

a. Provide daily reports for manpower, weather, all deliveries, inspections, site safety, work completed and upcoming work scheduled. Submit reports to Bovis Lend Lease daily in both written and PDF format.

4. LEED Certification Requirements

a. Bid Package Contractor to adhere to all Contract Documents, Drawings and Specifications requirements for LEED certification.
b. Any construction debris generate by the work shall be processed in accordance with Specification Section 01565 LEED Waste Site Management Program.
c. Bid Package Contractor to provide all certification, manifests, and required paperwork for off haul, delivery and dumping of site material, waste, salvage, and recycling.
d. Bid Package Contractor understands that the project will be obtaining LEED Certification (e.g. gold, platinum, etc.) and will require additional documentation, meetings, submittals and effort on behalf of the Bid Package Contractor to comply with specific LEED points. Allow for additional management time for the LEED certification process.
e. Provide Bovis Lend Lease all required documentation to be submitted to the Green Building Council before final payment to the approval of Bovis Lend Lease and the Council.

5. Licensing and Permits

a. Bid Package Contractor to provide all contractors' licensing and trade permits required for the performance of your work. License numbers indicated on the Invitation to Bid represent a minimum requirement and are presented for information only. Bidders are instructed to inquire and comply with all State requirements.
b. Bid Package Contractor to provide and pay for all State, City, Cal OSHA, DPW, MTA, MUNI, PG&E, SFWD and DSA deferred permits as well as CCSF District and neighborhood approvals required for temporary and permanent construction and installation of the work. Coordinate with Bovis Lend Lease for the requirements of these approvals. Some of these approvals may be needed for adjacent areas to the work, hard and electronic copies of shop drawings for required deferred approvals as well as final close out, testing and commissioning approvals.

6. Testing and Inspection

a. Bid Package Contractor to provide and pay for all materials and testing required, which includes but is not limited to soil import, export, pipe pressures, etc.
b. Bid Package Contractor to provide minimum 48 hour notice by email to Inspector of Record and Bovis Lend Lease for all required inspections.
c. Bid Package Contractor is responsible for any and all requests by Bovis Lend Lease, the District, Department of the State Architect, the Design Team, or the City for any and all standard and special

inspection requests, above and beyond what has been provided by the Bovis Lend Lease, the District, or the design team.

d. Inspection requests shall be shown on the required 3 week look ahead schedule.
e. Bid Package Contractor shall cooperate with the on-site inspectors, DSA Inspectors, City officials, City College officials, representatives of the San Francisco Fire Department and other interested parties to the fullest extent as required by the Contract Documents. No changes to the work based on directions, verbal or written, issued by any of these people or institutions are to be incorporated until written direction is given by the Contractor.
f. Bid Package Contractor shall afford full and free access to any and all parts of the work at anytime unless directed otherwise by Bovis Lend Lease or the City College as would put any inspector or review authority in physical harm.
g. For materials or equipment requiring testing during manufacturing or prior to shipment, Bid Package Contractor shall give Bovis Lend Lease advance notification and provide written verification/certification that testing has been satisfactorily completed. Material shipped prior to having satisfactorily passed the required testing or prior to the receipt of written notice that such testing and inspection has been completed shall not be incorporated into the work.
h. Bid Package Contractor specifically includes cleaning of their work to the satisfaction of Owner, design consultants, Bovis Lend Lease or other Contractor, relevant manufacturer's recommendations and industry norms. Monitor, test, and maintain the work, as necessary, from the time of initial start up until final handover to Owner.
i. All water, as a result of testing and/or system drainage, shall be placed directly into the building drainage system via hoses (hoses by Bid Package Contractor). No water is allowed to drain directly onto the site. If there is no drain in place, Bid Package Contractor to remove this drainage water from the site.
j. Bid Package Contractor shall be responsible for all costs associated with re-testing and re-inspection resulting from Bid Package Contractor's poor quality control or Bid Package Contractor's non-compliance with the Contract as evidenced by tests and inspection by any testing agency.
k. Previous acceptance of materials and/or equipment subsequently determined to be in non-compliance with the Contract Documents may be withdrawn and the material/equipment may, at the discretion of the Architect, Contractor, any Authority having Jurisdiction (AHJ) or the design consultants be removed.
l. Bid Package Subcontractor specifically includes providing all required operation and maintenance manuals to Contractor by no later than 50% completion of the Project.
m. Bid Package Contractor to include all pre-testing and functional testing of all systems. Prior to final demonstration to the Architect, Consultants, AHJ or Owner for acceptance, the systems must be fully tested and operational.

7. Certifications

a. Provide monthly all third party certification of machine operator's qualifications and third party certification of equipment inspection prior to bringing the equipment on site.

8. Coordination of the Work

a. Bid Package Contractor shall coordinate with other trades. All shop drawings are to be coordinated with other trades before submittal for approval. Subcontractor includes coordination of their work within the work area as well as in relation to existing, adjacent campus and/or city structures and their relevant building envelope and systems that may extend outside of the building perimeter. This includes providing equipment weight, size, required clearances, specifications and coordinating with construction drawings, existing as-builts, surveys, concrete, rebar, structural steel and all subcontractor shop drawings to ensure proper detailing and construction of the support and adequate function for the equipment and continued functionability of adjacent systems. This includes reviewing equipment loadings, locations, size and connection to new and existing buildings. If Bid Package Contractor is unable to or fails to perform this in a timely manner, then Bid Package Contractor will pay for the costs associated with the outside consultant review.

b. It is the responsibility of Bid Package Contractor to review all available information (design drawings, shop drawings, specifications, manufactures literature, etc.) to verify that services and provisions provided by others (power, structure, pads, curbs, connections, clearance, openings, etc.) are sufficient to meet the needs of the Bid Package Contractor's scope of work and will allow them to function and be maintained as intended. Any materials and/or services to be provided by others are to be researched by Bid Package Contractor's and requested in sufficient time as not to impact the progress of the project schedule. The Bid Package Contractor's is responsible for ensuring coordination is comprehensive.
c. Bid Package Contractor will issue coordinated shop drawings for their scope of work. The schedule for drawing issuance will be developed with the Contractor and the constructions trades, so as to not impact the construction schedule.
d. Bid Package Contractor shall delineate its respective work, including piping, and equipment, to scale, with all necessary vertical and horizontal dimensioning indicated and coded.
e. All Bid Package Contractors shall provide at least four copies of disks, blue lines, etc., for Bovis Lend Lease's and Owner's project files, and electronically transfer them to a print service designated by Bovis Lend Lease. The Bid Package Contractor will provide to Bovis Lend Lease for posting/use by all subcontractors in Bovis Lend Lease's plan room, three sets of colored plots at completion, incorporating all submittal comments, revisions, and coordination resolutions.
f. The detailing of CAD drawings shall additionally include the following
    i. All hanger and bracing connection shall be clearly identified with load that each brace will carry and in sufficient detail as to allow the structural engineer to determine the loads imposed on the structure.
    ii. A separate layout drawing for all embeds and anchors to be installed in new concrete. These drawings will clearly label the embeds, and provide sufficient information that will allow the embeds to be located on the forms from project grid lines and elevations.
    iii. Separate layout drawings for pad layout, curbs, and penetrations required in the structure and access door locations.
    iv. Dimensioned drawings showing the layout and size of all the systems and controls coordinated within the confines of the room sizes given on the architectural drawings.

9. Field Verification of the Work

a. Bid Package Contractor shall provide field verification of dimensions for own work, to ensure proper fabrication and installation. Bid Package Contractor shall notify Bovis Lend Lease immediately of any discrepancies, other trade blocks or field issues which would prevent Bid Package Contractor from properly installing the work.
b. Bid Package Contractor shall perform all layout for own work from an established benchmark provided by the Project Surveyor and the Civil Engineer. Line and elevation will be provided by this Bid package Contractor.

10. Performance of the Work

a. Bid Package Contractor shall provide offloading and hoisting for own work. Bid Package Contractor shall provide scaffolding as required for their own work. Bid package Contractor is responsible for the transport, erection and dismantling of all required scaffolding and coordinating it with other trades.
b. Bid Package Contractor to furnish embeds and support members, not specifically shown but required for own work.
c. Bid Package Contractor to include any shoring or bracing required for own work as required by Bovis Lend Lease and Cal OSHA. Bid Package Contractor is responsible to provide and pay for stamped and signed engineered drawings as required for the work and have it approved by the Design team before the work is performed.
d. Bid package Contractor to furnish and install supports, fasteners, mounting clips and accessories, for own work Bid Package Contractor shall provide coring, cutting & patching for own work, including removal and patching of fireproofing as required for the installation of their work to the satisfaction of the Inspector of Record.
e. Bid Package Contractor to provide a 3 week look ahead schedule at weekly contractor coordination meetings to include but not limited to work planned, coordination with other trades, inspection requests,

and large deliveries, if requiring a larger than normal storage space. Delivery scheduling and location and method of drop off and off loading to the approval of Bovis Lend Lease.

11. Project Schedule: Notice to Proceed

a. Bid Package Contractor is required to begin mobilization when a contract is issued and provide a preliminary Schedule of the Work, a Schedule of Values, submittal log and a Site Specific Safety Plan within 5 days.

1. Close Out

a. Bid Package Contractor is required to provide all final billings, electronic and five (5) full sized sets of As-Built plans, finalized and closed out submittal log (which includes all completed punchlist items as signed off by the District and the District's representatives), lien releases and final certified payroll.
b. Spare parts, tools, piping identification, valve tag charts, as-built drawings, Owner training and all other close-out items listed herein or within the specifications or required by the Contract Documents shall be submitted in a timely manner so as not to delay the Project close-out process or Owner's ability to occupy and maintain the systems. Warranties will start when all of the above have been received, Owner has accepted the system, and all relevant sections of the specifications have been met. Final payment will not be issued until the above have been satisfied.

13. Site Maintenance and Cleaning

a. The Bid Package Contractor will install and maintain facilities necessary to minimize the tracking of soil from the job site. At a minimum the Bid Package Contractor will set up a wheel wash facility and clean the wheels of all trucks leaving the site and sweep the exiting areas and surrounding roads as indicated in the conditions register, to the satisfaction of Bovis Lend lease, Inc., Owner, City of San Francisco, the Department of Transport and any other authority having jurisdiction over the work. Site cleaning will occur daily if required by the above mentioned parties.
b. Provide street sweeping) to maintain clean city and campus streets daily during import or haul off. Bid Package Contractor to provide more frequent street sweeping as conditions warrant.
c. Bid Package Contractor shall clean up their work debris and materials daily, as needed to keep the work area safe and presentable. Bid Package Contractor will additionally include labor for a composite crew to perform general cleanup on the project as requested by Bid Package Contractor (Allow for 10 Man hours per week). If the Bid Package Contractor's clean up is not being performed, Bovis Lend Lease shall provide monitoring and clean up at the responsible Bid Package Contractors expense.
d. Bid Package Contractor shall keep the work area clear of obstruction created by the storage or stockpiling of materials and free from the accumulation of debris generated by its work.
e. Bid Package Contractor to coordinate with and obtain approval from the CM/GC for removal and/or relocation of temporary fencing if additional access is required for own work. Costs for such additional work to be provided by Bid Package Contractor.
f. Bid Package Contractor to provide covered debris boxes as needed.
g. All site maintenance to the approval of Bovis Lend Lease.
h. Bid Package Contractor will perform any necessary cleaning of adjacent sidewalks, streets, signs, parking lot, gutters, access roads and any other area that becomes contaminated as a result of this Bid Package Contractors work.

14. Dust, Noise and Vibration Control

a. Bid Package Contractor to implement and maintain regular dust control practices to prevent the generation of dust during the scope of the work and at a minimum regularly sprinkle the area with water and cover loose/stockpiled materials with suitable protection. Bid Package Contractor will prevent dust generation in

accordance with best industry practices, CALOSHA, SWPPP and any other appropriate standards or ordinance. The project site is very windy and will require extensive dust control including water truck(s).

b. Bid Package Contractor to maintain on site water trucks as required for dust control and dewatering as required.
c. Bid package Contractor to ensure and enforce controls for noise based on City noise ordinance and within hours of allowable noise and decibel levels.
d. Bid package Contractor to keep vibrations below City ordinance.

15. Safety Auditing, Inspecting, Reporting and Meetings

a. Bid Package Contractor is responsible for understanding and implementing all requirements of Bovis Lend Lease's SMS Manual and GMR's, found in the bid documents.
b. Bid Package Contractor will be specifically responsible for adhering to and following all requirements of the following Construction Physical GMR's as they pertain directly to this Bid Package Contractor's work:

   i. #2.2 – Logistics – Fencing
   ii. #2.3 – Logistics – Public Protection
   iii. #2.4 – Logistics – Pedestrian and Vehicle Safety (affected Bid Package Contractor area of work only)
   iv. #3.1 – Ground Works – Pre-Planning
   v. #3.2 – Ground Works – Stability
   vi. #3.3 – Ground Works – Safe Works
   vii. #5.2 – Electrical Safety - Work on Live Systems
   viii. #5.3 – Electrical Safety - People and Tools

c. Prior to start of work, or whenever it happens the Bid Package Contractor is to provide Pretask Plan, incident reports, Jobsite Analysis, equipment inspections, and MSDS for hazards of 3 or greater.
d. Where applicable as determined by Bovis Lend Lease, Bid Package Contractor to provide daily reports of coordination meetings, Safe Start meeting, pretask plan, permits to work, orientation for new workers, safety briefing, High Risk Activities permit and Jobsite analysis, Cargo Net System, scaffolding, ladders, suspended scaffolding, vehicle log, housekeeping, trenching and after rain event, rigging, hot work permits, stretch and flex exercises, tool box meetings, coordination of work meetings, coordination of safety requirements for penetrations, securing materials, loading platform inspections, power equipment, quick hitch, foundations, fire fighting equipment, and welfare facilities for housekeeping.
e. Bid package Contractor to submit and perform the following monthly tasks: Project Safety Lead review, equipment inspections, emergency back up lighting, first aid kit review, fire extinguishers and alarms, emergency plan review.
f. Bid package Contractor to submit and perform the following Quarterly tasks: electrical cord/tool inspection and color coding of cords, GFCI test, and fire drills and emergency response drill.

22. Site Security

a. Bid Package Contractor understands and agrees to provide all flagging, barricades, directional signage, lighting, and pedestrian control for your work that occurs outside of the fenced construction site.
b. Bid Package Contractor is responsible for securing their installed work, materials, and equipment from theft or any other type of damage, as well as securing those persons on site from hazards created by their work, materials, material storage and installation processes and equipment.
c. Bovis Lend Lease will provide security guards at construction entrance gates during normal construction hours, M-F, 7am – 3pm. These gates will be locked with a padlock during off hours of work. Bid Package Contractor to provide any and all security deemed appropriate by the Bid Package Contractor, especially during off hours. Bid Package Contractor to provide added security guards, lighting, fencing and locked containers as needed during off hours of work. Bid Package Contractor will not deem the security fence, gate and/or security guard provided by Bovis Lend Lease, Inc. as complete security barrier.

d. Bid Package Contractor to include required safety lighting as required to protect their equipment and worksite from weather, vandalism or other trades. This lighting will be powered by either generator or temp power at the cost to the Bid package Contractor. The timing of the availability of the temporary power varies and the Bid Contractor will take this into account.
e. Bid Package Contractor to provide safety and security on site from local conditions including high winds and rain.
f. Bid Package Contractor to provide all necessary fencing to isolate their work area from the public per the Bovis GMR's.

23. Deliveries and Traffic Control

a. Per the Owner's Requirements, the delivery of large equipment must be scheduled before 7:00am and after 5:00pm. Provide 48 hours notice in writing to Bovis project team.
b. The Bid Package Contractor includes all traffic control signs, lights, cones, flagmen (at a minimum one flag person when impacting traffic) and any encroachment and street closure permits (tree removal, sidewalk closure, street encroachment etc) required from the City of San Francisco, City College, The Department of Public Works and any other authority having jurisdiction over the project. Provide notifications and obtain permits needed to perform all aspects of the work in sufficient time so as to allow the project schedule to progress without delay.

24. Storm Water Pollution Prevention Program (SWPPP)

a. Bid Package Contractor shall furnish, install and maintain dewatering equipment as required to complete their work.
b. Bid package Contractor shall remove and properly dispose of all subsurface and surface water that may hinder or impede your work and this is to be done at the discretion of Bovis Lend Lease.
c. Bid Package Contractor to cooperate fully with Project's SWPPP Plan.
d. Current SWPPP requirements will change in the Fall of 2008. Contractor is responsible for all these changes and updates.
e. Provide and maintain a temporary drainage system and pumping equipment as required, keeping all areas free from water created by this Bid Package Contractor's work. This Bid Package Contractor shall remove all water from basement areas, pits, trenches, etc. as required for work to be performed in an area and to prevent damage to any part of the construction site. This includes all water from hydrostatic and pump tests.
f. All location and method of disposal of waste water to be approved by Bovis Lend Lease.

25. Project Punchlist and Close Out

a. Bid Package Contractor shall be responsible for restoration of exiting roads, sidewalks, curbs and other existing structures and surfaces damaged by their operations to an acceptable condition by Bovis Lend Lease and the Owner.
b. Bid Package Contractor to provide all contractual requirements, punchlist requirements and Substantial Completion for final payment.
c. Subcontractor recognizes that any use of the permanent building systems and controls, prior to its final turnover and acceptance by Owner, in no way relieves Subcontractor of any guarantees on the systems and controls. Prior to final turnover, any systems, which have been used, must be properly cleaned and/or refurbished as required by Contractor and to maintain equipment manufactures' warranties.

26. Temp Power and Water

a. Provide temporary water, electrical and plumbing for your work. Bid Package Contractor shall obtain and pay for permits required for temporary water, water meter and temporary electrical and pay monthly costs for water and electrical used onsite.

b. Due to the size of the project site, lighting may not be adequate for security of your equipment or performance of off-hours maintenance. Bid package contractor shall provide any lighting needed in addition to localized safety lighting provided by Bovis Lend Lease This is inclusive of cords, electrical panels, transformers, generators, fuel, etc. and all incidentals necessary to provide adequate task and safety lighting for the Bid Package Contractor's work.
c. Bid Package Contractor to provide maintain portable restroom and hand wash facilities per Cal OSHA standards.

27. Site Surveying

a. Bid Package Contractor to implement and pay for the costs associated with any required surveying and other USA services as required for the work.
b. Bid Package Contractor to provide initial and ongoing surveys required for initial and ongoing layout as well as general progress of the work.
c. Bid Package Contractor to provide a final survey of installed work.

28. Underground Utilities

a. Maintain and protect all existing underground utilities. Coordinate with Bovis and City College, utility companies and USA Underground to locate and identify any utilities that interfere with any excavation work in sufficient time so as not to delay the scheduled work start.
b. Bid package Contractor to protect all existing underground utilities that need to remain and ensure they remain operational during the work unless otherwise noted. With the approval of Bovis Lend Lease and or CCSF, the Bid Package Contractor will coordinate with utility companies for utility shut offs, timing of shut offs, and coordination of all temporary utility provisions for the shut off, including but not limited to providing and maintaining temporary power or water during shut off.

29. Personal Conduct

a. All workers on site will conduct themselves in a professional manner. Because there are many students in the area, all workers will refrain from giving a student(s) any undue or inappropriate attention. If a worker is found to be doing so, Bovis Lend Lease maintains the right to remove the worker immediately. All Bid Package site superintendents and foreman are to prevent any worker from conducting themselves inappropriately.

30. Use of Allowances

a. All allowances shall be used at the sole discretion of Contractor and only when so authorized in writing; it shall not be used for completing unfinished portions of the work, repairing work damaged by Bid Package Contractor, or any other purposes. Bid Package Contractor shall diligently and accurately track the amounts of such authorizations; the total amount of the allowance remaining unauthorized at the completion of the project will be deducted from this Subcontract.

C. Specific Scope of Work

1. Miscellaneous Paving, Pathways and Landscaping

Bid Package Contractor includes labor and material to provide and install all paving, pathways and landscaping systems including but not limited to curbs, gutters, sidewalks, parking lots, asphalt curbs, concrete curbs, speed bumps, asphalt pathways, concrete pathways, sidewalks, asphalt overlay, setting of final area drains, striping, grading, fill/cut, regrading, roadway sections, pedestrian pathways, bollards, asphalt paving, concrete paving, drive ramps, roadway signs and markings,

irrigation lines, hydroseeding/plantings, swales and accessible ramps, decomposed granite, header boards, bike racks, bike rack footings, etc. to finalize the paving, pathways and landscaping around the Joint Use Facility and Sitework projects.

Zone 1 work including, but not limited to:

a. Removal of existing asphalt in north parking lot and offhaul/disposal of unusable asphalt. Include removal of asphalt at sloped access to W. Access Road.
b. Infill/cut and final grading of this area to match final civil drawing elevations. Feather grade into existing surfaces as needed. Current grade is at ~8" below final grade in all areas – see sheet "Balboa Reservoir Development – Rough Grading Parking Plan Sequence – March 2009" sheet 2 of 2 dated 10/15/08 by BKF Engineers for current status of grades in all areas. Install AB above rough subgrade as needed/shown on the civil drawings to create final pavement sections. Removal of all unusable material and import of new material as needed.
c. Re-asphalt of area per civil drawings onto new subgrade. Feather to match existing surfaces as needed. Adjust area drains, Christy boxes, manholes, all existing substructures, etc. as necessary to provide a clean, final grade.
d. Installation of new AC and concrete curbs, accessible ramps as shown on the civil drawings.
e. Installation of new concrete pathways/areas on the north side of the JUF (Joint Use Facility). Including all completion of final subgrade, installation of aggregate base, expansion/score joints, concrete, rebar, etc. to make a complete finished product.
f. Installation of new AC pathway from W. Access Road to new concrete areas/sidewalks/pathways on the north side of the JUF as shown on the civil drawings.
g. Striping and new signage in all new and revised parking, pathway, etc. areas. Including all new red curbing as shown. Include all striping necessary to finalize all marking in this area.
h. Installation of new wheel stops as shown on the civil drawings.
i. New hydroseed in all areas shown on the civil drawings. Include protection of all finished surfaces and subsequent power-washing/clean-up once hydroseeding is complete.
j. Include removal/disposal of all SWPPP materials in this area.
k. Include temporary fencing around all work areas while grubbing, excavation, fill, grading, formwork, asphalting, striping is completed. Remove fencing once area is ready for occupancy by City College.
l. Bid Package Contractor to include ten (10) @ 5'x5' 2" asphalt patches for areas of the north parking lot that have cracked and need to be replaced. Include sawcutting, removal of existing asphalt, re-grading (if necessary) and new asphalt. Patches to be located at the discretion of Bovis Lend Lease. Include restriping (as necessary) to restore affected parking lot striping.
m. Include costs to set final manhole grade rings and utility vault extension rings to final grade elevation in conjunction with final grading and paving.
~~n.~~ Reseal/overlay of (E) asphalt: Bid Package Contractor includes preparation of existing parking lot surfaces along the east and north sides of the Joint Use Facility and installation of new overlay of asphalt section as shown on the civil drawings. Including grubbing and sawcutting necessary to finalize and create a clean finished product. Feather all overlay to match SS/SD manhole rims, utility vaults, etc at the direction of Bovis Lend Lease. Include feathering of overlay to existing grades and other existing site works (i.e. sidewalks, unaffected parking lot areas, etc.) Tie-in new overlay with existing and new asphalt areas seamlessly. ~~Include multiple mobilizations and weekend batch plant openings to perform this work in multiple phases/areas.~~ Asphalt durations per contract schedule. Work to be done during normal business hours.
~~o. Include multiple mobilizations and weekend batch plant openings to perform this work in multiple phases/areas. Bid Package Contractor to include multiple mobilizations, batch plant openings, concrete pours for all work in this scope as it will be done in multiple phases. See Contract Schedule for approximate durations and sequencing of work. Bovis reserves the right to resequence and resegment work as needed to meet the project schedule and needs of the City College. Include three (3) batch plant weekend openings for asphalt.~~

p. Include labor, equipment and materials necessary to remove and dispose of all used SWPPP materials around the project site including fiber rolls, stakes, blankets/mats, etc. Main areas of SWPPP removal include the entire west berm (location of new ADA ramps/stairs), area between north parking lot and W. Access Road, project fencing perimeter (fiber rolls, stakes). Remove all materials and clean up areas.

Zone 2 work including, but not limited to:

a. Removal of damaged asphalt and AC curb along west edge of faculty parking lot and offhaul/disposal of unusable asphalt.Infill/cut and final grading of this area to match final civil drawing elevations. Feather grade into existing surfaces as needed. Current grade is at ~8" below final grade in all areas – see sheet "Balboa Reservoir Development – Rough Grading Parking Plan Sequence – March 2009" sheet 2 of 2 dated 10/15/08 by BKF Engineers for current status of grades in all areas. Install AB above rough subgrade as needed/shown on the civil drawings to create final pavement sections. Removal of all unusable material and import of new material as needed. Remove asphalt, infill/cut and re-grade as necessary to install all new grade breaks. Patch asphalt as needed.
b. Installation of new AC and concrete curbs, accessible ramps as shown on the civil drawings.
c. Installation of new concrete pathways/areas on the east side of the JUF (Joint Use Facility). Including all completion of final subgrade, installation of aggregate base, expansion/score joints, concrete, rebar, etc. to make a complete finished product.
d. Installation of new asphalt between existing faculty parking lot area and new AC curb/path along east side of JUF per civil drawings onto new subgrade. Install AC overlay as shown on drawings over existing faculty parking lot area. Feather all new work to match existing surfaces as needed. Adjust area drains, Christy boxes, manholes, all existing substructures, etc. as necessary to provide a clean, final grade.
a. Installation of new AC pathway along west side of new, extended parking lot to new concrete areas/sidewalks/pathways on the east side of the JUF as shown on the civil drawings. Tie-in all new pathways to JUF to make a clean and level surface.
e. Striping and new signage in all new and revised parking, pathways, etc. areas. Including all new red curbing as shown. Include all striping necessary to finalize all marking in this area.
f. Installation of new wheel stops as shown on the civil drawings.
g. Installation of all new crosswalks and associated striping.
h. New hydroseed in all areas shown on the civil drawings. Include protection of all finished surfaces and subsequent power-washing/clean-up once hydroseeding is complete.
i. Include removal/disposal of all SWPPP materials in this area.
j. Include temporary fencing around all work areas while grubbing, excavation, fill, grading, formwork, asphalting, striping is completed. Remove fencing once area is ready for occupancy by City College.
k. Installation of new AC speed bumps and associated striping.
l. Reseal/overlay of (E) asphalt: Bid Package Contractor includes preparation of existing parking lot surfaces along the east and north sides of the Joint Use Facility and installation of new overlay of asphalt section as shown on the civil drawings. Including grubbing and sawcutting necessary to finalize and create a clean finished product. Feather all overlay to match SS/SD manhole rims, utility vaults, etc at the direction of Bovis Lend Lease. Include feathering of overlay to existing grades and other existing site works (i.e. sidewalks, unaffected parking lot areas, etc.) Tie-in new overlay with existing and new asphalt areas seamlessly. Include multiple mobilizations and weekend batch plant openings to perform this work in multiple phases/areas.
m. Include setting of final area drains along the east side of the Joint Use Facility to their final elevation.
n. Include costs to set final manhole grade rings and utility vault extension rings to final grade elevation in conjunction with final grading and paving.
o. Reseal/overlay of (E) asphalt: Bid Package Contractor includes preparation of existing parking lot surfaces along the east and north sides of the Joint Use Facility and installation of new overlay of asphalt section as

shown on the civil drawings. Including grubbing and sawcutting necessary to finalize and create a clean finished product. Feather all overlay to match SS/SD manhole rims, utility vaults, etc at the direction of Bovis Lend Lease. Include feathering of overlay to existing grades and other existing site works (i.e. sidewalks, unaffected parking lot areas, etc.) Tie-in new overlay with existing and new asphalt areas seamlessly. Asphalt durations per contract schedule. Work to be done during normal business hours.

p. ~~Include multiple mobilizations and weekend batch plant openings to perform this work in multiple phases/areas. Bid Package Contractor to include multiple mobilizations, batch plant openings, concrete pours for all work in this scope as it will be done in multiple phases. See Contract Schedule for approximate durations and sequencing of work. Bovis reserves the right to resequence and resegment work as needed to meet the project schedule and needs of the City College. Include three (3) batch plant weekend openings for asphalt.~~

q. Includes installation of new irrigation line from Phelan Ave stub-out to stub-out at NE corner of the Joint Use Facility. See civil drawings for size and location. Include costs to sawcut, trench, install piping, connect to stub-outs, backfill, compact and resurface as needed to match existing. I

r. Include labor, equipment and materials necessary to remove and dispose of all used SWPPP materials around the project site including fiber rolls, stakes, blankets/mats, etc. Main areas of SWPPP removal include the entire west berm (location of new ADA ramps/stairs), area between north parking lot and W. Access Road, project fencing perimeter (fiber rolls, stakes). Remove all materials and clean up areas.

s. ~~Bid Package Contractor to include removal of existing AB used for site winterization along the south and east sides of the Joint Use Facility. Remove AB ramp at NW side of Joint Use Facility near the 12kV switchgear room prior to installation of sidewalk and landscaping in this area. AB is approximately 4" deep and 10' wide. Include costs to remove, offhaul and dump material.~~

t. Bid Package Contractor includes labor and equipment to relocate approximately 40 sticks of concrete K-rail owned by CCSF. Concrete k-rail is located in various areas around the project site and will be relocated to multiple areas around the project site or the east campus of City College (east of Phelan Ave.).

u. Bid Package Contractor includes installation of two (2) new storm drain drop inlets, approx. 83' of 8" SD and approx. 52' of 12" SD piping to complete storm drainage system in southeast corner of parking lot (ref. C4.60R2). Tie-in to existing manhole (RIM 298.92). Include all materials necessary to complete installation.

<u>Zone 3 work including, but not limited to</u>:

a. Removal of asphalt, AC curbing and other debris along south side of JUF and in BLL trailer area. Offhaul/disposal of unusable asphalt. Infill/cut and final grading of this area to match final civil drawing elevations. Feather grade into existing surfaces as needed. Removal of all unusable material and import of new material as needed. Remove asphalt, infill/cut and re-grade as necessary to install all new grade breaks. Patch asphalt as needed. Include all final grading, infill/cut, etc. as necessary to finalize grade between new parking lot areas and existing parking lot Q. Current grade is at ~8" below final grade in all areas – see sheet "Balboa Reservoir Development – Rough Grading Parking Plan Sequence – March 2009" sheet 2 of 2 dated 10/15/08 by BKF Engineers for current status of grades in all areas. Install AB above rough subgrade as needed/shown on the civil drawings to create final pavement sections.

b. Installation of new AC and concrete curbs, accessible ramps as shown on the civil drawings along all edges of the new parking lot area. Include all ramps, curbs between new parking lot areas and parking lot Q.

c. Installation of new asphalt and concrete pathways/areas on the south side of the JUF (Joint Use Facility). Including all completion of final subgrade, installation of aggregate base, expansion/score joints, concrete,

rebar, etc. to make a complete finished product. Tie-in all new pathways to JUF to make a clean and level surface.

d. Installation of new asphalt pathway along entire south side of the project between Phelan Ave. and the south stair along the east berm per civil drawings. Feather all new work to match existing surfaces as needed. Installation of new AC pathway along west side of new, extended parking lot to new concrete areas/sidewalks/pathways on the east side of the JUF as shown on the civil drawings. Tie-in all new pathways to JUF to make a clean and level surface.

e. Striping and new signage in all new and revised parking, pathways, etc. areas. Including all new red curbing as shown. Include all striping necessary to finalize all marking in this area.

f. Installation of new wheel stops as shown on the civil drawings.

g. Installation of all new crosswalks and associated striping.

h. New hydroseed in all areas shown on the civil drawings. Include protection of all finished surfaces and subsequent power-washing/clean-up once hydroseeding is complete.

i. Include removal/disposal of all SWPPP materials in this area.

j. Include temporary fencing around all work areas while grubbing, excavation, fill, grading, formwork, asphalting, striping is completed. Remove fencing once area is ready for occupancy by City College.

k. Installation of new AC speed bumps and associated striping.

l. Reseal/overlay of (E) asphalt: Bid Package Contractor includes preparation of existing parking lot surfaces along the east and north sides of the Joint Use Facility and installation of new overlay of asphalt section as shown on the civil drawings. Including grubbing and sawcutting necessary to finalize and create a clean finished product. Feather all overlay to match SS/SD manhole rims, utility vaults, etc at the direction of Bovis Lend Lease. Include feathering of overlay to existing grades and other existing site works (i.e. sidewalks, unaffected parking lot areas, etc.) Tie-in new overlay with existing and new asphalt areas seamlessly. Asphalt durations per contract schedule. Work to be done during normal business hours ~~. Include multiple mobilizations and weekend batch plant openings to perform this work in multiple phases/areas.~~

m. Include setting of final area drains along the south side of the Joint Use Facility to their final elevation.

n. Include costs to set final manhole grade rings and utility vault extension rings to final grade elevation in conjunction with final grading and paving.

~~o. Include multiple mobilizations and weekend batch plant openings to perform this work in multiple phases/areas. Bid Package Contractor to include multiple mobilizations, batch plant openings, concrete pours for all work in this scope as it will be done in multiple phases. See Contract Schedule for approximate durations and sequencing of work. Bovis reserves the right to resequence and resegment work as needed to meet the project schedule and needs of the City College. Include three (3) batch plant weekend openings for asphalt.~~

p. Include final grading of entire sloped area between south side of new asphalt pathway down to existing property line and fence from Phelan Avenue to south edge of lower reservoir parking lot.. Clean up entire slope and prepare for hydroseeding.

q. Include installation of new metal header bands, decomposed granite, bike racks, bike rack footings, aggregate base, etc. to complete the installation of the bike rack area to the final condition per the civil drawings. Include all fill/cut and final grading in this area to meet final grades.

r. Include demolition of existing curb at SW corner of parking lot Q, removal of materials and tie-in of new drive aisle from existing parking lot Q and new south parking lot. Include patching of existing curbing and new curbing in this area. Include dismantling and removal of Joint Use Facility exterior mock-up located in the Bovis trailer area. Include costs to dispose of all materials.

s. Include dismantling and removal of wood deck around Bovis/IOR/Conference room trailer areas. Include costs to dispose of all materials.

t. Include labor, equipment and materials necessary to remove and dispose of all used SWPPP materials around the project site including fiber rolls, stakes, blankets/mats, etc. Main areas of SWPPP removal

include the entire west berm (location of new ADA ramps/stairs), area between north parking lot and W. Access Road, project fencing perimeter (fiber rolls, stakes). Remove all materials and clean up areas.

u. Bid Package Contractor to Bid Package Contractor to include installation of new swale along the southern side of the lower reservoir parking lot just north of the Kragen parking lot. Include all materials, labor and equipment necessary to trench, grade, install swale, tie-into existing asphalt path and tie-into existing POC at west side of far west berm. Include all removal of existing brush, landscaping, debris, rocks and all other softscape/hardscape in the path of the swale necessary to install swale. Area is currently impregnated with native brush/grass and will need to be cleared and graded prior to installation of swale. Include costs to offhaul excess dirt and/or import as needed.

~~v. Bid Package Contractor to include removal of existing AB used for site winterization along the south and east sides of the Joint Use Facility. Remove AB ramp at NW side of Joint Use Facility near the 12kV switchgear room prior to installation of sidewalk and landscaping in this area. AB is approximately 4" deep and 10' wide. Include costs to remove, offhaul and dump material.~~

<u>Zone 4 work including, but not limited to:</u>

a. Infill/cut and final grading of this area to match final civil drawing elevations. Feather grade into existing surfaces as needed. Removal of all unusable material and import of new material as needed. Remove asphalt, infill/cut, and re-grade as necessary to install all new grade breaks. Patch asphalt as needed. Include all final grading, infill/cut, etc. as necessary to finalize grade between new parking lot areas and existing parking lot Q. Include scarification of SE corner of parking lot Q, demolition of existing curbing, infill/cut, regarding, new asphalt and new curbing to match final civil plans. Include patching of AC, restriping and re-curbing as necessary. Tie-in all surfaces to make a clean and smooth product. Current grade is at ~8" below final grade in all areas – see sheet "Balboa Reservoir Development – Rough Grading Parking Plan Sequence – March 2009" sheet 2 of 2 dated 10/15/08 by BKF Engineers for current status of grades in all areas. Install AB above rough subgrade as needed/shown on the civil drawings to create final pavement sections.
b. Installation of new concrete curbs, accessible ramps as shown on the civil drawings SE corner of parking lot Q.
c. Installation of new concrete pathways/areas on the west side of the JUF (Joint Use Facility). Including all completion of final subgrade, installation of aggregate base, expansion/score joints, concrete, rebar, etc. to make a complete finished product. Tie-in all new pathways to JUF to make a clean and level surface.
d. Striping and new signage in all new and revised parking, pathways, etc. areas. Including all new red curbing as shown. Include all striping necessary to finalize all marking in this area.
e. New hydroseed in all areas shown on the civil drawings. Include protection of all finished surfaces and subsequent power-washing/clean-up once hydroseeding is complete.
f. Include removal/disposal of all SWPPP materials in this area.
g. Include temporary fencing around all work areas while grubbing, excavation, fill, grading, formwork, asphalting, striping is completed. Remove fencing once area is ready for occupancy by City College.
h. Bid Package Contractor to include labor, equipment and materials necessary to remove and dispose of all used SWPPP materials around the project site including fiber rolls, stakes, blankets/mats, etc. Main areas of SWPPP removal include the entire west berm (location of new ADA ramps/stairs), area between north parking lot and W. Access Road, project fencing perimeter (fiber rolls, stakes). Remove all materials and clean up areas.

~~i. Bid Package Contractor to include removal of existing AB used for site winterization along the south and east sides of the Joint Use Facility. Remove AB ramp at NW side of Joint Use Facility near the 12kV switchgear room prior to installation of sidewalk and landscaping in this area. AB is approximately 4" deep and 10' wide. Include costs to remove, offhaul and dump material.~~

Zone 5 work including, but not limited to:

a. Removal of all SWPPP materials (fiber rolls, stakes, mats, etc.) along entire stairs/ramps areas along west side of upper reservoir and along ramp to lower reservoir at north end of site. Dispose of all materials.
b. Hydroseed entire stairs/ramps areas along west side of upper reservoir and along ramp to lower reservoir at north end of site. See civil plans for all hydroseeding in this area. Protect all existing surfaces and clean-up all debris/unused material.
c. Rehydroseed two areas along west berm of lower reservoir. These areas are approximately two areas of 14,000 sq. ft. each.

2. Allowances:

a. Bid Package Contractor to include a $10,000 allowance for restriping in the north parking lot. This allowance shall be used at the sole discretion of Bovis Lend Lease and only when so authorized in writing; it shall not be used for completing unfinished portions of the work, repairing work damaged by Bid Package Contractor, or any other purposes.
~~b. Bid Package Contractor to Bid Package Contractor to include an allowance of $20,000 for drain piping and pipe unions to connect to existing area drain risers. This allowance shall be used at the sole discretion of Bovis Lend Lease and only when so authorized in writing; it shall not be used for completing unfinished portions of the work, repairing work damaged by Bid Package Contractor, or any other purposes.~~
c. Bid Package Contractor to include a $10,000 allowance for labor costs for installation of Christy boxes to protect future area drains. This allowance shall be used at the sole discretion of Bovis Lend Lease and only when so authorized in writing; it shall not be used for completing unfinished portions of the work, repairing work damaged by Bid Package Contractor, or any other purposes.
~~d. Bid Package Contractor to include a $15,000 allowance for installation of misc. retaining walls around the project site not shown on the contract drawings to account for unforeseen variances in grades. This allowance shall be used at the sole discretion of Bovis Lend Lease and only when so authorized in writing; it shall not be used for completing unfinished portions of the work, repairing work damaged by Bid Package Contractor, or any other purposes.~~
~~e. Bid Package Contractor to include a $30,000 allowance for misc. bollards around the project site. Bollards shall be located by Bovis Lend Lease to protect existing structures. This allowance shall be used at the sole discretion of Bovis Lend Lease and only when so authorized in writing; it shall not be used for completing unfinished portions of the work, repairing work damaged by Bid Package Contractor, or any other purposes.~~
f. Bid Package Contractor to include a $15,000 allowance for protection of the Performing Arts transformer which will be located in a temporary position. This allowance shall be used at the sole discretion of Bovis Lend Lease and only when so authorized in writing; it shall not be used for completing unfinished portions of the work, repairing work damaged by Bid Package Contractor, or any other purposes.
g. Bid Package Contractor to include a $20,000 allowance for unforeseen items within the area of work. This allowance shall be used at the sole discretion of Bovis Lend Lease and only when so authorized in writing; it shall not be used for completing unfinished portions of the work, repairing work damaged by Bid Package Contractor, or any other purposes.
h. Bid Package Contractor to include an allowance of $20,000 for miscellaneous concrete and asphalt work, to be used at the discretion of Bovis Lend Lease. This allowance is not to be used to replace any of the aforementioned Scope.

3. General Work Installation

a. Bid Package Contractor to coordinate all work with adjacent trades and trades within the same area of work.
b. Bid Package Contractor to remove all unused soil, debris, and removed roadway from the site at the Bid package contractor's expense.
c. Bid package contractor to meet and match all existing curbs, gutters, sidewalks, roads and roadway elevations.

d. Bid Package Contractor to coordinate all work with MUNI, DPT, City College, BLL, Caltrans and any other AHJ having jurisdiction.
e. Bid Package Contractor to verify all below grade utility items, including but not limited to water, electric, irrigation, and drainage, are backfilled and compacted with the Inspector's approval before commencing with the work. Bid Package Contractor to protect installed manholes, grates, hydrants, weirs, etc. serving all underground utility work.
f. Bid package Contractor to verify all elevations of work with a surveyor prior to commencing the work. This Bid Package Contractor is responsible for all layout and elevations for the work. Coordinate layout and elevation control requirements with surveyor. It is the responsibility of Bid Package Contractor to perform a survey and transfer the lines and elevations around the site to perform their scope of the work.
g. Bid Package Contractor is responsible for all accessible pedestrian sidewalk ramps, truncated domes and grooved pavement per State and Federal accessibility requirements.
h. Perform all excavation, demolition, backfill, dewatering, compaction, shoring, bracing, patching necessary to complete the full scope of this work. Shoring is to be fully engineered to support all anticipated loads and in complete accordance with best industry practices, CALOSHA and any other appropriate standards.
i. Bid Package Contractor is responsible for all temporary closures, temporary lights, barricades, signaling, enclosures, signage, storage, permits, etc to fully complete the scope of work. Bid Package Contractor is responsible for all plating, as necessary, for exposed trenching left open between work time periods
j. Bid Package Contractor will perform any necessary cleaning of adjacent sidewalks, streets, signs, parking lot, gutters, access roads and any other area that becomes contaminated as a result of this Bid Package Contractors work.
k. The Bid Package Contractor includes all traffic control signs, lights, cones, flagmen (at a minimum one flag person when impacting traffic) and any encroachment permits (tree removal, sidewalk closure, street encroachment etc) required from the City of San Francisco, City College, The Department of Public Works and any other authority having jurisdiction over the project. Provide notifications and obtain permits needed to perform all aspects of the work in sufficient time so as to allow the project schedule to progress without delay.
l. Soil is to be transported in trucks that are licensed with the appropriate waste classifications. Trucking will be conducted in compliance with California Department of Transportation and other applicable state and local regulations. At anytime, truckers will be asked for insurance, license, and certification of trucking waste.
m. The location of any material that needs to be stockpiled on site is to be coordinated with Bovis Lend Lease's superintendent ahead of time and at a location determined by the contractor. The stock piling of material is to be kept to an absolute minimum.
n. All material that is stockpiled will be bermed to protect against surface water inflows and covered and capped when not in use to prevent erosion and runoff. Bid Package Contractor is responsible for all SWPPP requirements for materials stored on site, including but not limited to soil, backfill, and spoils.
o. Bid Package Contractor to gain Geotechnical Engineer's approval of compaction before paving/pathways begins.
p. Bid Package Contractor will notify the owner and Bovis Lend Lease immediately upon encountering any underground piping or other interruptions to the work and any other identifiable environmental conditions posing a potential risk to health, safety or the environment. The Bid Package Contractor will immediately implement any provisions of the Health and Safety Plan that may be triggered by encountering these conditions. The Bid Package Contractor will notify the San Francisco Department of Public Health of the conditions found. If encountered the Bid Package Contractor will obtain appropriate permits and decommission wells and underground storage tanks accordingly. The Bid Package Contractor will forward results of the chemical analyses to the San Francisco Department of Public Health.
q. Maintain and protect all existing underground utilities. Coordinate with Contractor, utility companies and USA Underground to locate and identify any utilities that interfere with any excavation work in sufficient time so as not to delay the scheduled work start. Bid Package Contractor to include an additional $10,000 for misc. surveying, potholing, USA, etc. Bid Package Contractor shall diligently and accurately track the amounts of such authorizations; the total amount of the allowance remaining unauthorized at the completion of the project will be deducted from this Subcontract. This allowance shall be used at the sole discretion of Contractor and only when so authorized in writing; it shall not be used for completing unfinished portions of the work, repairing work damaged by Bid Package Contractor, or any other purposes

r. Carefully saw cut the edges of all demolition lines and AC removal. Patch and repair any adjacent asphalt, concrete, and repair any conduit, manholes, electric work, water work, or other installation damaged by the Work.
s. This Bid Package Contractor is to provide for coordination of the scope of this work with other Bid Package Contractors work to allow them to safely, efficiently and economically perform their work. Coordination is to be provided in sufficient time as to allow a continuous and uninterrupted flow of the project schedule.
t. Job site cleanup is to be carried out on a daily basis. Remove all waste and unwanted equipment and materials to an appropriate off site location.
u. Bid Package Contractor's responsibility includes layout and coordination of all openings through all precast concrete, concrete slabs, walls and beams, structural steel, CMU walls, , etc. needed for the system.

D) Exclusions

None

E) Alternates and Unit Prices:

Per Bid Form

F) Unit Prices:

Per Bid Form

J) Attachments:

See enclosed attachments: Exhibits

SBE Goal Percentage for this Bid Package is 25.0%

END OF SECTION