



INVITATION FOR BIDS

“HUD” FUNDING TO PROVIDE DEMOLITION AND EROSION CONTROL SERVICES FOR THE VALENCIA GROVE PHASE II PROJECT – REDLANDS, CA

Project Number: #PC1215

**Housing Authority of the County of San Bernardino (HACSB)
715 E. Brier Drive
San Bernardino, CA 92408**

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HACSB

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Demolition Plan

Onyx Architects and Coffman Engineers, March 31, 2021

Original Construction Plans

Clare Henry Day and
Jay Dewey Harnish Associated Architects 1959

Date: April 15, 2021



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1. PROCUREMENT AND CONTRACTING REQUIREMENT

1.1 INTRODUCTION

The Housing Authority of the County of San Bernardino (HACSB) is one of the nation's most progressive and proactive housing authorities and the largest provider of affordable housing in the County. HACSB owns 2,514 affordable housing units located throughout the County of San Bernardino. We proudly serve in excess of 30,000 people, most of whom are seniors, disabled individuals, and children.

In 2008, the agency embarked on an agency wide strategic planning process with the following objectives: help clients achieve economic independence, ensure freedom of housing choice, and save tax payer dollars through efficient work. This has allowed us to enhance our work around our mission and service philosophy. Ultimately, our Mission of empowering all individuals and families in need to achieve an enriched quality of life by providing housing opportunities and resources throughout San Bernardino County is our top priority.

As we see the demand for affordable housing increase, the limited affordable housing supply we currently have available is not enough to house the thousands of families in need. As a developer of sustainable affordable and market rate housing, over the years we have expanded our housing stock in an attempt to meet the county's growing needs. Working diligently to acquire, build, and renovate properties, we incorporate the concept of mixed income communities, build utilizing green technology, and provide recreational and educational facilities for everyone's use.

Additionally, we are here as a stepping stone for families who need help building a foundation for a brighter future. Therefore, aside from providing housing, we assist our customers with ways of becoming economically independent. In collaboration with our partners, we provide: family/individual case management and counseling; career training and job placement; program integrity; homeownership assistance; college scholarships, to name a few.

We value our vendors and contractors as partners in our mission to empower all individuals and families in need to achieve an enriched quality of life by providing housing opportunities and resources throughout San Bernardino County.

1.2 INVITATION FOR BID

Valencia Grove was the first public housing site built in the County of San Bernardino. The original 115 public housing unit site was long overdue for a major revitalization. The revitalization of this public housing site consists of three phase's total. Phase One was completed in April of 2016 and created 85 new apartment homes, complete with garages, a new playground and community center. Phase Two is comprised of the demolition of 24 original duplexes to make way for the development of 104 new apartment homes. Existing residential units on the site have already been demolished. However, many of the concrete foundations have not yet been removed. The third and final phase of the development will be located on the southernmost portion of the site adjacent to Lugonia Avenue.

The Housing Authority of the County of San Bernardino (HACSB) is accepting sealed bids from licensed and bonded Trade Contractors for the Valencia Grove Phase II to provide demolition, grading for drainage, and implementation of erosion control services in the City of Redlands.

PROJECT:

The project consists of site demolition, grading for drainage, and implementation of erosion control. Demolition is to include removal of any existing concrete foundations and structures onsite. The anticipated start date for the work will be in the Summer of 2021. The project site includes the portion of the Phase 3 site that is immediately south of the Phase 2 site. The project area includes but is not limited to the following parcels: Assessor's parcel number 016737104, 016737103, 016737203, and 016737303. (Please see the enclosed exhibit for additional clarification regarding the general site boundaries).

All work is to be completed in conformance with the plans, specifications, and exhibits. Work will conform to the Conditions of Approval dated 10/27/2009, and Redlands Specific Plan 61 approved 8/4/2009.

Valencia Grove Phase II Site Demolition and Erosion Control Services

- Demolition Plans (Phase 2 & 3) sheets C-102 & C-103 dated 03/31/2021; and Post-Demolition (Erosion Control) Plan sheets 1-4 dated 3/26/2021 by Onyx and Coffman Engineers.
- PDF titled "Valencia Grove 2 - Adtnl Scope Description and Site Boundaries"
- Specifications for Demolition and Stormwater and the SWPPP Report.
- Soils Report prepared by Geocon West (Formerly Geocon Inland Empire, Inc.) dated May 8, 2009

The successful bidder will be required to provide a detailed construction schedule for the work prior to issuance of a notice to proceed by Owner. The successful bidder will pay for the demolition permit.

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

- Removal of existing foundations, streetlights, poles, roads, curb, gutter, flatwork, sidewalks, structures, debris, buried conduit, pull boxes, valve caps, hydrants, plants, trees, and root bulbs.
- The site is to be graded as necessary to retain drainage onsite. Contractor will need to verify that the site matches existing topography shown on the Post-Demo Plan. The site will be graded to generally match elevations shown on Post-Demo plan. Minor grading will be required where swales are shown to intercept overland drainage.
- Installation and maintenance of Erosion Control measures based on plans and per applicable codes.
- All existing onsite utilities are to be capped and demolished unless Contractor is directed otherwise.
- BMP's and Erosion Control Plan shall be implemented to prevent debris and unsuitable materials from entering storm drains, sewer, or exiting the site prior to beginning demolition.
- Removal of portions of the CMU retaining wall located near the eastern property line, per plan.
- An amended Storm Water Pollution Prevention Program (SWPPP) will be issued via Addendum. Contractor will be required to implement the SWPPP and must maintain compliance with the Stormwater NPDES permit for the project. Upon completion of work, Contractor will install hydromulch to portions of the site where existing soils are not stabilized per the SWPPP.
- Contractor will be responsible for any water/utility costs that are required for its work.
- Contractor is to provide professional survey & staking as necessary for completion of this project.

Add Alternate #1:

- Removal of full height masonry wall & footing along Lugonia Ave

Add Alternate #2:

- Addition of swales for 10-year storm event (Per Post-Demo Plan)

All site access is to be provided through Delaware Avenue off of Orange Street. No traffic is to pass through Horizon Avenue, 6th Street, or the existing housing community. Existing decorative pavers at the intersection of Horizon and 6th Street must be protected in place throughout work.

Bidders are required pursuant to California Business and Professions Code 7028.15 to hold a valid State Contractor's License as classified in Public Contract Code Section 3300 at the time the contract is awarded. Bidders shall conform to California Business and Professions Code 7059 for Specialty Contractor's Licensing Provisions. Certification is contained in the Bid Form. Prime Bidders must possess the following classification(s) of contractor's license for each Bid Package listed below:

- 1. A License**
 - a. Subcontracts demo, grading, and earthwork to licensed C-21 & C-12 contractor(s)
- 2. C-21 License, self performs all work**
- 3. A or B License, self performs demo, holds C-21 license.**
 - a. Subcontracts grading work to licensed C-12 contractor.
- 4. A or B License, self performs grading and earthwork, holds C-12 license.**
 - a. Subcontracts demo work to licensed C-21 contractor.

Estimate: \$ 789,170

IFB PC1215
Valencia Grove Phase II Site Demolition and Erosion Control Services

The Contractor is responsible for the performance and completion of all items in the Scope of Work. The Contractor shall coordinate all work and shall cooperate with the HACSB Project Manager as necessary to ensure progress and timely completion of the Work.

Estimated duration of the contract is 30 WORKING DAYS. Start date for Project will be given through a Notice to Proceed letter. Working hours for this project will be 7:00am to 6:00pm Monday through Friday. No work is to be performed on federal holidays or weekends without written approval from owner. Liquidated damages in the amount of **\$1,000 per day** will be assessed for this project if it is not completed within **30** working days from notice to proceed.

Bid includes mobilization, all labor, materials and equipment needed to complete the services, compliance with all regulations, and stabilization of the disturbed soil at the end of the project.

It is the responsibility of the Contractor to review and **verify all quantities and existing conditions in the field**, in addition to meeting all regulatory requirements, obtain all required permits and documents.

NOTE: Funding for this project is through the United States Department of Housing and Urban Development (HUD) and is subject to all HUD requirements.

Davis-Bacon Prevailing Wages will be required to be paid for all work performed under this Invitation for Bids. Current Wage Determinations may be obtained directly from the website at <http://beta.SAM.gov/>. It shall be mandatory upon the Contractor to whom any contract is awarded and upon any Subcontractor under him to pay not less than said specified prevailing rates to all laborers and mechanics employed by them in the execution of the contract.

The Contractor should use the Davis Bacon Wage Rates for trades for pricing their bid. The wage Determination may be found at <https://wdolhome.sam.gov/>. **The current wage determination is: CA20210017 03/19/2021 MOD7.**

This project is subject to compliance monitoring and enforcement by HUD Handbook 1344.1 Chapter 8. Submission of certified payroll will be done through LCP Tracker.

There is a MANDATORY PRE-BID CONFERENCE & JOB WALK scheduled on Wednesday, April 28, 2021 at 9:00 AM; at the job site 1331 6th Street, Redlands, CA 92374 (southeast corner of the intersection of 6th and Horizon Avenue). **Safety vests, safety boots, and hard hats are required for the job walk.**

Due to COVID-19, HACSB will be imposing the following requirements for all contractors who attend the job walk. Those who do not comply with these requirements will be not be allowed to attend as these requirements are for the protection of all attendees and staff. Your cooperation in adhering to these requirements is greatly appreciated.

1. A face covering will be required and must be worn during the entire duration of the job walk. HACSB WILL NOT be providing face covering to those attending the job walk.
2. Social distancing of six feet must be maintained at all times during the job walk.
3. Hand sanitizer will be supplied by HACSB.

ALL BIDS ARE DUE by Tuesday, May 18, 2021 at 10:00 AM PST.

Bids are to be submitted electronically through PlanetBids website:

<https://pbsystem.planetbids.com/portal/40135/portal-home>

The work shall consist of the provision of all permits, materials, labor and equipment to perform the complete work as identified in the Scope of Work for this bid. Contractor will be responsible for following all items addressed in the Scope of Work, specifications, and all applicable laws, codes, regulations and any manufacturer's recommendations.

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No oral requests for clarification will be accepted. All such requests must be submitted via PlanetBids (Bid PC1215) no later than **10:00am PST on May 18, 2021**.

TIMELINE:

Release of IFB:	April 15, 2021
Mandatory Job Walk:	April 28, 2021 @ 9am
Deadline for Questions:	May 4, 2021 @ 10am
Answers/Clarifications posted by:	May 7, 2021 @ 4pm
BIDS DUE:	May 18, 2021 @ 10am
Estimated Date for Award:	July 15, 2021
Estimated Start of Construction:	July 20, 2021

It is the HACSB's intent to award a single contract to the lowest responsive bidder based on the total bid amount for the scope of all the work.

It is the contractor's responsibility to submit all necessary documents included with the bid package including the use of the supplied bid bond form. Bid Guarantee (for contracts in excess of \$25,000) by the bidder in accordance with policy 2 CFR §200.325 Bonding Requirements, which states: "A bid guarantee from each bidder equivalent to five percent (5%) of the bid price. The "bid guarantee" must consist of a firm commitment such as a bid bond, certified check, or other negotiable instrument accompanying a bid as assurance that the bidder will, upon acceptance of the bid, execute such contractual documents as may be required within the time specified."

Conditions of Approval:

The Conditions of Approval for this project include requirements that affect the performance of demolition and grading. The Contractor must comply with the conditions of approval from the City of Redlands. A full copy of the conditions are included in this bid package. Several of the conditions of approval that will affect the Contractor's scope of work for this IFB are listed below:

- In order to mitigate the potential impact from the generation of dust to Air Quality as identified in Sections III (b-d) of the environmental checklist, the project shall divert at least 25 percent of non-hazardous construction and demolition materials taken off the construction site from landfills and incinerators. The percentage shall be calculated using either weight or volume but must be consistent in all calculations. In addition, the existing trees on the property that are to be removed during construction/demolition shall be reused or recycled. The reusable items in the existing residential units shall be given away or sold. Documentation of compliance with this measure shall be verified by the City of Redlands Building Official prior to issuance of a building permit (Mitigation Measure No. 3).
- In order to mitigate the potential impact from the generation of dust to Air Quality as identified in Sections III(b-d) of the environmental checklist, the applicant shall require that the demolition of existing structures and mass grading soil disturbances include watering of demolition debris and disturbed graded areas three times per day (Mitigation Measure No. 9).
- In order to mitigate the potential impact from the generation of dust to Air Quality as identified in Sections III(b-d) of the environmental checklist, the applicant shall require that demolition activities of the proposed project would come under the regulatory requirements of SCAQMD Rule 1403. If asbestos-containing materials are found within the existing structures to be demolished, compliance with Rule 1403 will be required (Mitigation Measure No. 11).
- To mitigate the potential impacts identified in Section XVI(f-g) of the Environmental Checklist, the applicant shall require the project to submit a recycling plan for construction and demolition debris and implementation of recycling programs post occupancy. (Mitigation Measure No. 21)
- In order to mitigate the potential impact from the generation of dust to Air Quality as identified in Sections III(b-d) of the environmental checklist, the project shall divert at least 25 percent of non-hazardous construction and demolition materials taken off the construction site from landfills and incinerators. The percentage shall be

calculated using either weight or volume but must be consistent in all calculations. In addition, the existing trees on the property that are to be removed during construction/demolition shall be reused or recycled. The reusable items in the existing residential units shall be given away or sold. Documentation of compliance with this measure shall be verified by the City of Redlands Building Official prior to issuance of a building permit (Mitigation Measure No. 3).

1.3 REQUIRED DOCUMENTS

The following items are statutory requirements for each bidder and those marked with an asterisk are to be submitted with the bid. Signatures, and/or initials, are required. If any of the required items are not submitted, incomplete, or submitted on any other form other than those provided, the bid will be considered non-responsive and will be disqualified. All of these forms are available on the HACSB website at www.hacsb.com on the "Business" page under "Procurement Forms" and attached hereto as attachments and incorporated herein by reference.

1. Instructions to Bidders for Contracts (HUD 5369)
2. Representations, Certifications, and Other Statements of Bidders (HUD 5369-A)*
3. General Conditions for Construction Contracts (HUD 5370)
4. Statement of Bidder's Qualifications*
5. Designation of Subcontractors* (if applicable)
6. Certification for Business Concerns Seeking Section 3 Preference*
7. Certification of Bidder Regarding Equal Employment Opportunity*
8. Corporate Certification* (applicable to corporations only)
9. Non-Collusion Affidavit Form*
10. Bid Proposal Form* (included in this document)
11. Bid Guarantee* (for contracts in excess of \$25,000) by the bidder in accordance with the Instructions to Bidders for Contracts, which states: "All bids must be accompanied by a negotiable bid guarantee, which shall be not less than five percent (5%) of the amount of the bid". The Bid Guarantee shall be submitted by each bidder with the bid. Use of a standard surety company's form for the Bid Bond is permitted.
12. Contractor's Certification of Compliance/Davis-Bacon and Related Act Requirements*
13. Supplementary Conditions of the Contractor for Construction (HUD 92554M)

The following items are required of the apparent low bidder **once determined**:

1. Valid State of California contractor's License, Class A, B or appropriate specialty contractor's license
2. Certificate of Worker's Compensation Insurance
3. Certificate of Liability Insurance, minimum policy coverage of \$2,000,000.00 with the HACSB named as an additional insured on the policy. See proposal form for additional coverage requirements.
4. Environmental Liability: \$500,000; per occurrence and aggregate; HACSB Additional Insured.
5. Certificate of Automobile Liability Insurance, minimum policy coverage of \$1,000,000.00 with the HACSB named as an additional insured on the policy.
6. Stipulation of Lien.
7. 100 % Performance/Payment Bond.

Bidders shall inform all proposed subcontractors that they will be required to submit similar items within 72 hours if requested by HACSB.

Bidder's attention is directed to the provision for Equal Employment Opportunity and payment for all persons of not less than the minimum wages as set forth in the attached Federal Wage Requirements. This is a Davis Bacon project and Federal Regulations will be enforced.

No bid shall be withdrawn for a period of one hundred twenty (150) days subsequent to the opening of the bids without the consent of the HACSB. There will be no adjustments allowed for escalation.

Additional requirements may be imposed as necessary to satisfy all statutory requirements which may attach to the

work needed to be performed. The HACSB reserves the right to reject any or all bids, to accept the bid best suited to its needs, or to waive any non-statutory informality in the bidding.

2. SITE DEMOLITION - SPECIFICATIONS

2.1. DEFINITIONS

Any reference to Owner or Developer within these specifications shall be interpreted to refer to the Housing Authority of the County of San Bernardino.

FURNISH: To supply, deliver, unload, and inspect for damage.

INSTALL: To unpack, assemble, erect, apply, place, finish, cure, protect, clean, start up, and make ready for use.

PRODUCT: Material, machinery, components, equipment, fixtures, and systems forming the work result. Not materials or equipment used for preparation, fabrication, conveying, or erection and not incorporated into the work result. Products may be new, never before used, or re-used materials or equipment.

PROVIDE: To furnish and install.

SUPPLY: Same as Furnish.

Other definitions are included in individual specification sections.

2.2. AUTHORITY OF THE HACSB PROJECT MANAGER

All questions that should arise as to the quality or acceptability of materials and work performed and as to the manner of performance and rate of progress of the work will be decided by the HACSB Project Manager. All questions which may arise as to the interpretation of the plans and specifications, as to the acceptable fulfillment of the contract on the part of the Contractor, and as to the compensation shall be decided by the HACSB Project Manager whose decision is final.

2.3 CONSTRUCTION PLANS AND REPORTS

The intent of the plans and specifications is to prescribe the details for the demolition and completion of the work which the Contractor undertakes to perform in accordance to the terms of the contract. Where the plans or specifications describe portions of the work in general terms, but not in complete details, it is understood that only the best general practice is to prevail and that only materials and workmanship of the first quality are to be used.

2.4 INTENT OF PLANS AND SPECIFICATIONS

2.4.1. The project site is in an "existing condition" and therefore it is prudent and required upon the Contractor to compare the "existing condition" to the construction plans and implement a demolition plan accordingly.

2.4.2. The construction plans and reports furnished consist of general information and details to give a comprehensive idea of the construction contemplated.

2.5 RISK OF LOSS

The Contractor shall accept the site in its present condition and shall inspect the site for its character and type of structures to be demolished. The HACSB assumes no responsibility for the condition of existing buildings, structures and other property within the demolition area, or the condition of the property before or after the solicitation of proposals. No adjustment of proposal price or allowance for any change in conditions that occurred after the acceptance of the lowest responsible, responsive proposal will be allowed.

2.6 ORDER OF THE WORK

2.6.1. Deliver all notifications as required.

2.6.2. Obtain all permits, including, prepare and submit to the City of Redlands for approval the Construction & Demolition and Recycling Plan (CDRP Plan).

2.6.3. Provide copies of all permits to HACSB Project Manager's prior to beginning any demolition.

2.6.4. Prepare and submit to HACSB Project Manager a Safety Plan for the project.

2.6.5. Include a project schedule in Microsoft Project, including weekly updates.

2.7 SUPERINTENDENCE AND INSPECTION

2.7.1. The Contractor shall designate in writing before starting work, an authorized representative who shall have the authority to represent and act for the Contractor. This representative shall be proficient in speaking and writing English.

2.7.2. The authorized representative **shall be present** on the site, at all times while the work is actually in progress on the contract. When work is not in progress and during periods when work is suspended, arrangements acceptable to the HACSB Project Manager shall be made for any emergency work which may be required.

- 2.7.3. The HACSB Project Manager or his / her representative shall at all times, have safe access to the work for the purposes of inspection. The HACSB's inspection of the work does not relieve the Contractor of any of the Contractor's obligations to fulfill the contract.
- 2.7.4. If any subcontractor or person employed by the Contractor appear noncompliant with the contract documents or the safety plan, the HACSB's Project Manager or representative shall have the right to discharge that subcontractor or person immediately and that subcontractor or person shall not be employed again for the remaining performance of this contract.

2.8 APPLICABLE LAWS, RULES, AND REGULATIONS

- 2.8.1. The following laws, rules, and regulations listed herein are for the Contractor's reference. Nothing within the contract documents shall relieve the Contractor of his responsibilities to be in full compliance with all applicable laws, rules, and regulations whether specifically mentioned or not mentioned.
 - 2.8.1.1 California Occupational Safety and Health Act (CAL/OSHA) Title 8, California Code of Regulations (CCR)
 - 2.8.1.2 California Air Resources Board Ambient Air Quality Standard, Title 24
 - 2.8.1.3 California Department of Public Health, Title 17 CCR
 - 2.8.1.4 CAL/EPA, Title 22 CCR Disposal and Transportation of Hazardous Waste
 - 2.8.1.5 HUD – Title X, Residential Lead-Based Paint Hazard Reduction Act of 1992
 - 2.8.1.6 HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards as published in the 2nd Edition July 2012
 - 2.8.1.7 California Labor Code, Division 5, Part 1 as it pertains to safety in employment and with the applicable provisions of the Title 8, CCR as it pertains to the Occupational Safety and Health in the work place.
 - 2.8.1.8 State Water Resources Control Board (SWRCB) Order No. 2009-0009-DWQ, National Pollutant Discharge Elimination Systems (NPDES) General Permit No. CAS000002, "Storm Water Discharge Associated with Construction Activity and Land Disturbance Activities" ("Permit"), Amended by 2010-0014-DQ and 2012-006-DWQ.

2.9 PERMITS

- 2.9.1. The following list of permits are listed for the Contractor's reference. The Contractor shall obtain all permits necessary to legally perform the contracted scope of work.
 - 2.9.1.1 Demolition and Grading Permit from the City of Redlands.
 - 2.9.1.2 Application for Permit from the City of Redlands.
 - 2.9.1.3 CAL/OSHA permit and CAL/OSHA notification prior to the start of any work.
 - 2.9.1.4 Proof of notification of the South Coast Air Quality Management District.

2.10 SUBMITTALS

- 2.10.1. The Contractor shall submit the following forms and applications to the appropriate authorities and shall provide copies to the HACSB Project Manager upon approval. These applications and forms shall be submitted and approved prior to the Contractor beginning any demolition work.
 - 2.10.1.1 Per "City of Redlands Waste Enclosure Ordinance", the Contractor shall submit for review and approval a complete CDRP.
 - 2.10.1.2 City of Redlands Municipal Utilities & Engineering Application for Permit – Approved Route for Trucks.
 - 2.10.1.3 South Coast Air Quality Management District "Rule 1403 Form Notification of Demolition or Asbestos Removal". Note: This form must be filled out separately for each activity of demolition and asbestos removal.
- 2.10.2. Per the approved Storm Water Pollution Prevention Plan, the Contractor shall comply with all submittal requirements.
- 2.10.3. Landfill record reporting via receipt or acceptance of hazardous wastes by a landfill facility licensed to accept hazardous wastes.
- 2.10.4. Contractor shall prepare at his own expense a CDRP for the City of Redlands approval. The components of this plan shall include but not be limited to:
 - 2.10.4.1 Schedule of demolition activities which indicate a detailed sequence of the selective demolition

and removal work with starting and ending dates for each activity.

- 2.10.4.2 Indicate how the Contractor proposes to **recycle at least 65%** of the construction and demolition wastes for reuse.
- 2.10.4.3 Indicate a list of reuse facilities, recycling facilities and processing facilities that will be receiving the recovered materials including re-sale.
- 2.10.4.4 If some of the materials will be donated or sold, describe the process and identify the organizations that may receive the materials.
- 2.10.4.5 Identify the materials that are not recyclable or not recovered which will be disposed of in a landfill (or other means acceptable by the State of California and local ordinance and regulations) and explain why the materials are not recovered.
- 2.10.4.6 List the permitted landfill, or other permitted disposal facilities that will be accepting the disposed waste materials.
- 2.10.4.7 Indicate instances or situations where compliance with the requirements of this specification do not apply or do not appear to be possible.
- 2.10.4.8 Prepare a worker safety plan, assessment of building condition and all potential hazards.
- 2.10.4.9 Provide a final accounting of disposition of recovered materials upon completion of the project.
- 2.10.4.10 Provide the HACSB Project Manager with delivery receipts for the recycled / disposed materials and waste sent to permitted recycling facilities, processing facilities, or landfill with the following information:
 - Name of firm accepting the recovered materials or waste disposed materials.
 - Specify type of facility (retail facility, recycler, processor, Class III landfill, MRF)
 - Location of the facility
 - Type of Materials
 - Date of Delivery

2.11 ACCESSIBLE AREAS

- 2.11.1. The Contractor shall have full site of the demolition area as shown on the attached plans.
- 2.11.2. The Contractor's access to the demolition area shall be via 6th Street.
- 2.11.3. The Contractor, subcontractors, and all employees shall not interact with or enter into the resident area of the Valencia Grove complex. This area is further described as being bounded by Orange Street on the west, East Delaware Avenue on the north, 6th Street on the east, and Horizon Street on the south.

2.12 EXISTING CONDITIONS

- 2.12.1. The existing foundations are in varying degrees of condition.
- 2.12.2. The miscellaneous components to be removed from each unit vary in composition and quantity.

2.13 LITTERING AND HOUSEKEEPING

- 2.13.1. The Contractor shall be responsible for keeping the site clean on a daily basis and for removing any demolition debris, litter, or other loose material resulting from the execution of the demolition work. Any cost incurred by the HACSB to keep the site clean shall be charged to the Contractor and deducted from the funds due for the work.
- 2.13.2. Littering of the site shall not be permitted
- 2.13.3. All waste will be stored on site in an acceptable container appropriate for the type of waste or hauled off the site daily.

2.14 PUBLIC PATHS AND TRAVEL WAYS

- 2.14.1. Full street access and pedestrian circulation shall be provided to the residents and representatives of HACSB on 6th Street, East Sharon Road and East Delaware Avenue outside of the demolition foot print at all times.
- 2.14.2. Existing sidewalks along East Lugonia Avenue and along 6th Street shall be open at all times during construction.

2.15 PROTECTION OF PUBLIC FACILITIES

- 2.15.1. The Contractor shall take all necessary precautions to avoid any damage to either 6th Street, East Sharon, or East Delaware including abutting sidewalks, and ADA ramps. Any damage to these facilities will be repaired by the Contractor at no additional cost to the HACSB. The repairs will return said facilities to their pre-damaged condition.
- 2.15.2. The Contractor shall take all necessary precautions to avoid any damage to existing public utilities such as fire hydrants, street lights, traffic signals, power poles, telephone poles, fire alarm boxes, underground utilities or other appurtenances in the vicinity of the demolition site.
- 2.15.3. The Contractor shall pay for temporary relocation of utilities as necessary, which are relocated at the Contractor's request for his convenience

2.16 SITE SECURITY

- 2.16.1. The HACSB has a temporary fence around the construction site. However, full site security is the responsibility of the Contractor and the Contractor shall assume whatever means are necessary to ensure site security and safety. This may require the Contractor to install additional fencing before any demolition work and not remove said fencing until the completion of all demolition.
- 2.16.2. Until the acceptance of the contract, the Contractor shall have the charge and care of the work and all materials and equipment used therein for the contract. The Contractor shall bear full risk of injury, loss or damage to any part thereof by the action of the elements or from any other cause, whether arising from the execution or from the non-execution of the work. The Contractor shall rebuild, repair, restore, and make good all injuries, losses or damages to any portion of the work of the materials occasioned by any cause before its completion and acceptance and shall bear the expense thereof.
- 2.16.3. Where necessary to protect the work or materials from damage, the Contractor shall, at the Contractor's expense, provide suitable precautions to protect the work or materials from damage. The suspension of the work from any cause whatever shall not relieve the Contractor of the responsibility for the work and materials as herein specified.

2.17 NOISE POLLUTION

- 2.17.1. All construction equipment used in conjunction with this project shall be in good repair and adequately muffled. The Contractor shall comply with any noise pollution requirements of the City of Redlands.

2.18 AIR POLLUTION

- 2.18.1. The Contractor shall comply with applicable air pollution control requirements of the South Coast Air Quality Management District. The Contractor shall take appropriate actions to minimize atmospheric pollution and prevent particulate matter from becoming airborne. Such reasonable precautions shall include but not limited to:
 - 2.18.1.1 The use of water or chemicals for control of dusts in the demolition of existing buildings, structures, miscellaneous demolition, construction operations, and clearing or removal of debris.
 - 2.18.1.2 Transports trucks shall be covered when moving to prevent loss of debris or dust.

2.19 FIRE PREVENTION AND HAZARDS

- 2.19.1. Before demolition of any part of any building, the Contractor shall remove all volatile or flammable materials, such as gasoline, kerosene, benzene, cleaning fluids, paints or thinners in containers, and similar substances.
- 2.19.2. The Contractor shall be responsible for having and maintaining the correct type and class of fire extinguishers on site. A fire extinguisher shall be provided every 50'.
- 2.19.3. When a cutting torch or other equipment that might cause a fire is being used, a fire blanket and fire extinguisher shall be placed close at hand for instant use.
- 2.19.4. No fires of any kind will be permitted on the HACSB property or demolition site.
- 2.19.5. The Contractor shall arrange for access to and use of during working hours one or more telephones in the vicinity of the work site for the purposes of making calls in case of fire or other emergencies. The Contractor's Superintendent and all personnel on site shall be adequately trained as to the location, use of, and have access to the phone for the purposes of reporting emergencies.

2.20 PRODUCTS – NOT APPLICABLE

2.21 EXECUTION

2.21.1. DEMOLITION NOTICE

The Contractor shall be responsible for providing to the HACSB's Project Manager with a minimum of 72 hours advance notification prior to beginning the execution of demolition of any structure. All requirements are to be completed before starting work or demolition.

2.21.2. SALVATION OF DEMOLITION MATERIALS

2.21.2.1 All buildings, building materials, and components within buildings, and all other designated elements for demolition shall become the property of the Contractor and shall be removed from the premises at once. Salvaged materials shall be removed immediately from the premises.

2.21.2.2 The Contractor is to submit a CDRP which shows compliance with City of Redlands and State of California standards. A recycling minimum of 65% is required for this contract. The Contractor shall obtain such documentation to demonstrated recycling and submit said documentation consisting of manifests, weight tickets, or receipts to the HACSB Project Manager.

2.21.3. DEMOLITION AND REMOVALS

2.21.3.1 No wall or part thereof shall be permitted to fall outwardly from any building except through chutes or by other controlled means of methods which will ensure safety and minimize dust, noise and other nuisance.

2.21.3.2 Any part of the building, whether structural, collateral, or accessory which has become unstable through removal of other parts, shall be removed as soon as practicable, and no such unstable part shall be left free-standing or inadequately braced against all reasonably possible causes of collapse at the end of any day's work.

2.21.3.3 The foundation floors, slabs, driveways, and elements comprising the streets such as the street, curbs and gutters, street lighting, roadway signs, underground utilities, and any other miscellaneous street component are to be protected in place. If any protected element is damaged, the Contractor shall repair said element to its pre-damaged condition.

2.21.3.4 Some objects may be partially buried. Objects listed in below, which are partially buried, will be removed in their entirety including all portions below ground. The remaining void shall be filled with native soil and compacted in place.

- Appliances which may or may not contain refrigerant
- Thermostats which may or may not contain mercury
- Concrete block enclosures
- Patio shade structures
- Carports
- Clothes line frames and wiring
- Tree removal.
- Plumbing, electrical, and mechanical components typical of a housing unit that may still be present.

2.21.3.5 In addition to tree cutting and clearing, the Contractor shall remove all dead branches, limbs, leaves, trash, loose vegetation material, and other debris whether fallen or not. This section is for the purposes of clearing the site and leaving the site clean at the end of the demolition. This section is not intended for vegetation removal consistent of vegetation clearing.

2.21.3.6 Fasteners and connections between the walls and the foundation shall be removed or cut flush with the foundation slab. Vertical appurtenances shall not be left in place.

2.21.4. UTILITY PLUGGING

2.21.4.1 Prior to commencing any demolition work, the Contractor shall verify that all utilities have been disconnected.

2.21.4.2 The sewer lines are to be capped flush with the slab foundation. HACSB representative will approve cap material / method.

2.21.4.3 Water lines are to be shut-off, per building at valves located at street and lines capped. If existing valves are found not be operable, contractor is to replace shut-off valve.

2.21.5. DISPOSAL OF DEMOLITION DEBRIS AND SOLID WASTE

2.21.5.1 All materials, rubbish, and trash shall be removed from the demolition area leaving the site free of debris. Any cost incurred by the HACSB to perform such cleaning up of debris or materials left behind shall be deducted from the funds due to the Contractor under this contract.

2.21.5.2 Waste may or may not include the disposal of tires.

2.21.5.3 All debris and solid waste shall be delivered by the Contractor to a designated disposal facility, or to an approved disposal facility licensed in accordance with the state and / or local regulations, laws, and zoning. The Contractor shall be responsible to pay all fees for waste disposal. The Contractor shall submit to the HACSB's Project Manager copies of all disposal tickets for each element or component demolished. The cost of disposal fees shall be considered incidental to the demolition.

2.21.6. FREON REMOVAL AND DISPOSAL

The handling of Freon containing appliances, if present, is subject to all applicable state and federal mandates and regulations. The Contractor shall be responsible for the identification, and removal and disposal of the material in accordance with applicable regulations. All costs associated with said removal and disposal shall be considered incidental and shall be included in the lump sum bid for demolition.

2.21.7. PCB AND MERCURY REMOVAL AND DISPOSAL

The handling of any fluorescent lighting fixtures and ballasts containing PCB or mercury is subject to all applicable state and federal mandates and regulations. The Contractor shall be responsible for the removal and disposal of the material in accordance with applicable regulations. All costs associated with said removal and disposal shall be considered incidental and shall be included in the lump sum bid for demolition.

2.21.8. BACK FILL AND CLEAN UP

2.21.8.1 All excavations shall be backfilled with acceptable material free of debris and organic material. Compaction should be at a rate to minimize settling of the backfilled area.

2.21.8.2 The Contractor shall employ hand labor where the use of power machinery is unsafe or unable to produce a finished job. Hand labor shall also be used to clean the site of any debris.

2.21.8.3 Before acceptance of the demolition work, the Contractor shall remove all unused material and rubbish from the site of the work, remedy any objectionable conditions the Contractor may have created on the property, and leave construction site neat and presentable condition.

2.21.8.4 Contractor is to prevent erosive runoff and sediment transport from the project site using the approved Storm Water Pollution Prevention Plan.

2.21.8.5 Final cleanup is subject to the approval of the HACSB Project Manager.

2.21.9. SAFETY AND FENCING

2.21.9.1 The Contractor shall comply with all applicable current federal, state, and local safety and health regulations.

2.21.9.2 The HACSB has fencing around a portion of the demolition site which the Contractor may use. However, such provision does not relieve the Contractor from providing additional fencing or taking any other reasonable precautions to ensure safety.

2.21.9.3 The safety fencing shall remain in place until the contract completion has been accepted by the HACSB's Project Manager.

2.21.9.4 The Contractor shall make any repairs, modifications, or changes to the site fencing at the direction of the HACSB Project Manager. Such repairs, modifications, or changes are considered incidental to the cost of demolition and no separate payment shall be made.

2.21.9.5 Contractor shall ensure that all required signage is posted and visible on fencing.

2.21.10. REQUIRED POSTINGS

The Contractor shall post the State of California Health and Human Services Agency Department of Public Health Abatement of Lead Hazard Notification Form 8551 and all other required notices at entrances to work area and structures at all times.

3. SUMMARY**3.1. PROJECT**

3.1.1 PROJECT NAME: Valencia Grove Phase II Site Demolition

3.1.2 DEVELOPER NAME: Housing Authority of the County of San Bernardino

3.2. CONTRACT DESCRIPTION

3.2.1. CONTRACT TYPE: A single prime contract based on a Stipulated

3.3. CONTRACTOR USE OF SITE AND PREMISES

3.3.1. Construction Operations: Limited to areas noted on Drawings.

3.3.2. Provide access to and from site as required by law and by Developer.

3.3.2.1 Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.

3.3.2.2 Do not obstruct roadways, sidewalks, or other public ways without permit.

3.3.3. Existing building spaces may not be used for storage.

3.3.4. Time Restrictions:

- Limit conduct of especially noisy exterior work to the hours of 7AM to 6PM.
- Limit conduct of especially noisy interior work to the hours of 7AM to 6PM.
- Saturday, Sunday and Federal Holiday work is Prohibited.

3.4. WORK SEQUENCE

Coordinate construction schedule and operations with Developer.

3.5. SPECIFICATION SECTIONS APPLICABLE TO ALL CONTRACTS

Unless otherwise noted, all provisions of the sections listed apply to all contracts.

4. PRICE AND PAYMENT PROCEDURES

Procedures for preparation and submittal of applications for progress payments.

4.1. SCHEDULE OF VALUES

4.1.1. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit sample to DEVELOPER for approval.

4.1.2. Forms filled out by hand will not be accepted.

4.2. APPLICATIONS FOR PROGRESS PAYMENTS

4.2.1. Payment Period: Submit at intervals stipulated in the Agreement.

4.2.2. Electronic media printout including equivalent information will be considered in lieu of standard form specified; submit sample to DEVELOPER for approval.

4.2.3. Forms filled out by hand will not be accepted.

4.2.4. Execute certification by signature of authorized officer.

5. ADMINISTRATIVE REQUIREMENTS

5.1. PROJECT COORDINATION

5.1.1. Project Coordinator: Developer's Project Manager.

5.1.2. Cooperate with the Project Coordinator in allocation of mobilization areas of site; for field offices and sheds, for site access, traffic, and parking facilities.

5.1.3. During construction, coordinate use of site and facilities through the Project Coordinator.

5.1.4. Comply with Project Coordinator's procedures for intra-project communications; submittals, reports and records, schedules, coordination drawings, and recommendations; and resolution of ambiguities and conflicts.

5.1.5. Comply with instructions of the Project Coordinator for use of temporary utilities and construction facilities.

5.1.6. Coordinate field engineering and layout work under instructions of the Project Coordinator.

5.1.7. Make the following types of submittals to Owner through the Project Coordinator:

- Requests for interpretation.
- Requests for substitution.
- Submittals: Shop drawings, product data, and samples.
- Test and inspection reports.
- Manufacturer's instructions and field reports.
- Applications for payment and change order requests.

- Progress schedules.
- Coordination drawings.
- Closeout submittals.

5.2. PRODUCTS – NOT USED

5.3. SITE MOBILIZATION MEETING

- 5.3.1. Developer will schedule a meeting at the Project site prior to mobilizing and prior to initiating any work onsite.
- 5.3.2. Attendance Required:
- Developer
 - Contractor's Superintendent
 - Major Subcontractors
- 5.3.3. Agenda:
- 5.3.3.1 Use of premises by Developer.
- 5.3.3.2 Developer's requirements and occupancy prior to completion.
- 5.3.3.3 Construction facilities and controls provided by Developer.
- 5.3.3.4 Temporary utilities provided by Developer.
- 5.3.3.5 Survey and building layout.
- 5.3.3.6 Security and housekeeping procedures.
- 5.3.3.7 Schedules.
- 5.3.3.8 Application for payment procedures.
- 5.3.3.9 Procedures for testing.
- 5.3.3.10 Procedures for maintaining record documents.
- 5.3.3.11 Requirements for start-up of equipment.
- 5.3.3.12 Inspection and acceptance of equipment put into service during construction period.
- 5.3.4. Record minutes and distribute copies within two days after meeting to participants, with two copies to Developer, participants, and those affected by decisions made.

5.4. PROGRESS MEETINGS

- 5.4.1. Schedule and administer meetings throughout progress of the Work at weekly intervals.
- 5.4.2. Attendance Required: Job superintendent, major Subcontractors and suppliers, Developer, Project Manager, as appropriate to agenda topics for each meeting.
- 5.4.3. Agenda:
- 5.4.3.1. Safety
- 5.4.3.2. Review minutes of previous meetings.
- 5.4.3.3. Review of work progress.
- 5.4.3.4. Field observations, problems, and decisions.
- 5.4.3.5. Identification of problems that impede, or will impede, planned progress.
- 5.4.3.6. Review of submittals schedule and status of submittals.
- 5.4.3.7. Maintenance of progress schedule.
- 5.4.3.8. Corrective measures to regain projected schedules.
- 5.4.3.9. Planned progress during succeeding work period.
- 5.4.3.10. Maintenance of quality and work standards.
- 5.4.3.11. Effect of proposed changes on progress schedule and coordination.
- 5.4.3.12. Other business relating to Work.
- 5.4.4. Record minutes and distribute copies within two days after meeting to participants, with two copies to Developer, participants, and those affected by decisions made.

5.5. SUBMITTALS FOR REVIEW

- 5.5.1. When the following are specified in individual sections, submit them for review:
- Product data.
 - Shop drawings.
 - Samples for selection.

- Samples for verification.

5.5.2. Submit to DEVELOPER for review for the limited purpose of checking for conformance with information given and the design concept expressed in the contract documents.

5.5.3. Samples will be reviewed only for aesthetic, color, or finish selection.

5.5.4. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described under - CLOSEOUT SUBMITTALS.

5.6. SUBMITTALS FOR INFORMATION

5.6.1. When the following are specified in individual sections, submit them for information:

- Design data.
- Certificates.
- Test reports.
- Inspection reports.
- Manufacturer's instructions.
- Manufacturer's field reports.
- Other types indicated.

5.6.2. Submit for Developer. No action will be taken.

5.7. SUBMITTALS FOR PROJECT CLOSEOUT

5.7.1. When the following are specified in individual sections, submit them at project closeout:

- Project record documents.
- Operation and maintenance data.
- Warranties.
- Bonds.
- Maintenance Period.
- Training Records.
- Other types as indicated.

5.7.2. Submit for Developer's benefit during and after project completion.

5.8. NUMBER OF COPIES OF SUBMITTALS

5.8.1. Documents: Submit one electronic copy in PDF format; an electronically-marked up file will be returned. Create PDFs at native size and right-side up; illegible files will be rejected.

5.8.2. Documents for Review:

5.8.1.1. Small Size Sheets, Not Larger Than 8-1/2 x 11 inches (215 x 280 mm): Submit the number of copies that DEVELOPER requires.

5.8.1.2. Larger Sheets, Not Larger Than 36 x 48 inches (910 x 1220 mm): Submit the number of opaque reproductions that DEVELOPER requires.

5.8.2. Samples: Submit the number specified in individual specification sections; one of which will be retained by DEVELOPER.

5.8.2.1. After review, produce duplicates.

5.8.2.2. Retained samples will not be returned to DEVELOPER unless specifically so stated.

5.9. SUBMITTAL PROCEDURES

5.9.1. Transmit each submittal with approved form.

5.9.2. Sequentially number the transmittal form. Revise submittals with original number and a sequential alphabetic suffix.

5.9.3. Identify Project, DEVELOPER, Subcontractor or supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy.

5.9.4. Apply DEVELOPER's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.

5.9.5. Schedule submittals to expedite the Project, and coordinate submission of related items.

5.9.6. For each submittal for review, allow 3 days excluding delivery time to and from the DEVELOPER.

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- 5.9.7. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
- 5.9.8. Provide space for DEVELOPER and DEVELOPER review stamps.
- 5.9.9. When revised for resubmission, identify all changes made since previous submission.
- 5.9.10. Distribute reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.
- 5.9.11. Submittals not requested will not be recognized or processed.

6. SECURITY PROCEDURES

Security measures including formal security program, entry control, guard service, and miscellaneous restrictions.

6.1. RELATED REQUIREMENTS

- 6.1.1. Summary: Use of premises and occupancy.

6.2. SECURITY PROGRAM

- 6.2.1. Protect Work, existing premises and Developer's operations from theft, vandalism, and unauthorized entry.
- 6.2.2. Initiate program at project mobilization.
- 6.2.3. Maintain program throughout construction period until completion of project.

6.3. ENTRY CONTROL

- 6.3.1. Restrict entrance of persons and vehicles into Project site and existing facilities.
- 6.3.2. Allow entrance only to authorized persons with proper identification.

6.4. PRODUCTS – NOT USED**6.5. EXECUTION – NOT USED****7. QUALITY REQUIREMENTS****7.1. RELATED REQUIREMENTS**

- 7.1.1. General Conditions: Inspections and approvals required by public authorities.
- 7.1.2. Definitions

7.2. SUBMITTALS

- 7.2.1. Testing Agency Qualifications:
 - 7.2.1.1 Prior to start of Work, submit agency name, address, and telephone number, and names of full time specialist and responsible officer.
 - 7.2.1.2 Design Data: Submit for DEVELOPER's knowledge as contract administrator for the limited purpose of assessing conformance with information given and the design concept expressed in the contract documents, or for Developer's information.
- 7.2.2. Test Reports: After each testinspection, promptly submit two copies of report to Owner and to DEVELOPER.
 - Include:
 - Date issued.
 - Project title and number.
 - Name of inspector.
 - Date and time of sampling or inspection.
 - Identification of product and specifications section.
 - Location in the Project.
 - Type of testinspection.
 - Date of testinspection.
 - Results of testinspection.
 - Conformance with Contract Documents.
- 7.2.3. Certificates: When specified in individual specification sections, submit certification by the manufacturer and DEVELOPER to Owner, in quantities specified for Product Data.
 - 7.2.3.1 Indicate material or product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.
- 7.2.4. Manufacturer's Instructions: When specified in individual specification sections, submit printed

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instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, for the Developer's information. Indicate special procedures, perimeter conditions requiring special attention, and special environmental criteria required for application or installation.

7.2.5. Manufacturer's Field Reports: Submit reports for Owner's benefit as contract administrator to General Contractor.

7.2.5.1. Submit for information for the limited purpose of assessing conformance with information given and the design concept expressed in the contract documents.

7.2.6. Erection Drawings: Submit drawings for Developer

7.2.6.1. Submit for information for the limited purpose of assessing conformance with information given and the design concept expressed in the contract documents.

7.3. REFERENCES AND STANDARDS

7.3.1. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.

7.3.2. Conform to reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.

7.3.3. Obtain copies of standards where required by product specification sections.

7.3.4. Maintain copy at project site during submittals, planning, and progress of the specific work, until Substantial Completion.

7.3.5. Should specified reference standards conflict with Contract Documents, request clarification from Developer before proceeding.

7.3.6. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of Developer shall be altered from the Contract Documents by mention or inference otherwise in any reference document.

7.4. TESTING AND INSPECTION AGENCIES

7.4.1. Developer will employ and pay for services of an independent testing agency to perform other specified testing.

7.5. EXECUTION – CONTROL OF INSTALLATION

7.5.1. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.

7.5.2. Comply with manufacturers' instructions, including each step in sequence.

7.5.3. Should manufacturers' instructions conflict with Contract Documents, request clarification from Developer before proceeding.

7.5.4. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

7.5.5. Have Work performed by persons qualified to produce required and specified quality.

7.5.6. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.

7.5.7. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

7.6. MOCK-UPS

7.6.1. Tests will be performed under provisions identified in this section and identified in the respective product specification sections.

7.6.2. Assemble and erect specified items with specified attachment and anchorage devices, flashings, seals, and finishes.

7.6.3. Accepted mock-ups shall be a comparison standard for the remaining Work.

7.6.4. Where mock-up has been accepted by Developer and is specified in product specification sections to be removed, remove mock-up and clear area when directed to do so.

7.7. TOLERANCES

7.7.1. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not

permit tolerances to accumulate.

- 7.7.2. Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, request clarification from Developer before proceeding.
- 7.7.3. Adjust products to appropriate dimensions; position before securing products in place.

7.8. TESTING AND INSPECTION

7.8.1. Testing Agency Duties:

- 7.8.1.1. Provide qualified personnel at site. Cooperate with Developer in performance of services.
- 7.8.1.2. Perform specified sampling and testing of products in accordance with specified standards.
- 7.8.1.3. Ascertain compliance of materials and mixes with requirements of Contract Documents.
- 7.8.1.4. Promptly notify Developer of observed irregularities or non-conformance of Work or products.
- 7.8.1.5. Perform additional tests and inspections required by Developer.
- 7.8.1.6. Submit reports of all tests and inspection specified.

7.8.2. Limits on Testing and inspection Agency Authority:

- 7.8.2.1. Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents.
- 7.8.2.2. Agency may not approve or accept any portion of the Work.
- 7.8.2.3. Agency has no authority to stop the Work.

7.8.3. Contractor's Responsibilities:

- 7.8.3.1. Deliver to agency at designated location, adequate samples of materials proposed to be used that require testing, along with proposed mix designs.
- 7.8.3.2. Cooperate with laboratory personnel, and provide access to the Work and to manufacturers' facilities.
- 7.8.3.3. Provide incidental labor and facilities:
 - 7.8.3.3.1. To provide access to Work to be tested and inspected.
 - 7.8.3.3.2. To obtain and handle samples at the site or at source of Products to be tested and inspected.
 - 7.8.3.3.3. To facilitate tests and inspection.
 - 7.8.3.3.4. To provide storage and curing of test samples.
- 7.8.3.4. Notify Owner and laboratory 24 hours prior to expected time for operations requiring testing and inspection services.
- 7.8.3.5. Employ services of an independent qualified testing laboratory and pay for additional samples, tests, and inspections required by Developer beyond specified requirements.
- 7.8.3.6. Arrange with Developer's agency and pay for additional samples, tests, and inspections required by Developer beyond specified requirements.

7.8.4. Re-testing required because of non-conformance to specified requirements shall be performed by the same agency on instructions by Developer.

7.8.5. Re-testing required because of non-conformance to specified requirements shall be paid for by DEVELOPER.

7.9. DEFECT ASSESSMENT

- 7.9.1. Replace Work or portions of the Work not conforming to specified requirements.
- 7.9.2. If, in the opinion of Owner, it is not practical to remove and replace the Work, Owner will direct an appropriate remedy or adjust payment.

7.10. SUMMARY

- 7.10.1. Regulatory requirements applicable to this project are the following:
- 7.10.2. 29 CFR 1910 - Occupational Safety and Health Standards; current edition; as a work place.

7.11. PRODUCTS – NOT USED

7.12. EXECUTION – NOT USED

8. CODE-REQUIRED SPECIAL INSPECTIONS

8.1. RELATED REQUIREMENTS

- 8.1.1. Available Project Information: Soil investigation data
- 8.1.2. General Conditions: Inspections and approvals required by public authorities.

8.2. DEFINITIONS

- 8.2.1. Authority Having Jurisdiction (AHJ): Agency or individual officially empowered to enforce the building, fire and life safety code requirements of the permitting jurisdiction in which the Project is located.
- 8.2.2. Special Inspection:
 - 8.2.2.1. Special inspections are inspections and testing of materials, installation, fabrication, erection or placement of components and connections mandated by the AHJ that also require special expertise to ensure compliance with the approved contract documents and the referenced standards.
 - 8.2.2.2. Special inspections are separate from and independent of tests and inspections conducted by Developer for the purposes of quality assurance and contract administration.

8.3. REFERENCE STANDARDS

- 8.3.1. ACI 318 - Building Code Requirements for Structural Concrete and Commentary; 2008.
- 8.3.2. ACI 530I530.1IERTA - Building Code Requirements and Specification for Masonry Structures and Related Commentaries; 2011.
- 8.3.3. ASTM C311C31M - Standard Practice for Making and Curing Concrete Test Specimens in the Field; 2010.
- 8.3.4. ASTM C1721C172M - Standard Practice for Sampling Freshly Mixed Concrete; 2010.
- 8.3.5. ASTM D3740 - Standard Practice for Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction; 2012a.
- 8.3.6. ASTM E329 - Standard Specification for Agencies Engaged Construction Inspection and/or Testing; 2011.
- 8.3.7. AWS D1.4ID1.4M - Structural Welding Code - Reinforcing Steel; 2011.

8.4. SUBMITTALS

- 8.4.1. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- 8.4.2. Special Inspection Agency Qualifications: Prior to the start of work, the Special Inspection Agency shall:
 - 8.4.2.1. Submit agency name, address, and telephone number, names of full time specialist and responsible officer.
 - 8.4.2.2. Submit copy of report of laboratory facilities inspection made by NIST Construction Materials Reference Laboratory during most recent inspection, with memorandum of remedies of any deficiencies reported by the inspection.
 - 8.4.2.3. Submit certification that Special Inspection Agency is acceptable to AHJ.
- 8.4.3. Testing Agency Qualifications: Prior to the start of work, the Testing Agency shall:
 - 8.4.3.1. Submit agency name, address, and telephone number, and names of full time specialist and responsible officer.
 - 8.4.3.2. Submit copy of report of laboratory facilities inspection made by NIST Construction Materials Reference Laboratory during most recent inspection, with memorandum of remedies of any deficiencies reported by the inspection.
 - 8.4.3.3. Submit certification that Testing Agency is acceptable to AHJ.
- 8.4.4. Special Inspection Reports: After each special inspection, Special Inspector shall promptly submit two copies of report; one to DEVELOPER and one to the AHJ.
 - 8.4.4.1. Include:
 - Date issued.
 - Project title and number.
 - Name of Special Inspector.
 - Date and time of special inspection.
 - Identification of product and specifications section.
 - Location in the Project.
 - Type of special inspection.
 - Date of special inspection.
 - Results of special inspection.
 - Conformance with Contract Documents.
 - 8.4.4.2. Final Special Inspection Report: Document special inspections and correction of discrepancies prior to the start of the work.

8.4.5. Fabricator Special Inspection Reports: After each special inspection of fabricated items at the Fabricator's facility, Special Inspector shall promptly submit two copies of report; one to DEVELOPER and one to AHJ.

8.4.5.1. Include:

- Date issued.
- Project title and number.
- Name of Special Inspector.
- Date and time of special inspection.
- Identification of fabricated item and specification section.
- Location in the Project.
- Results of special inspection.
- Verification of fabrication and quality control procedures.
- Conformance with Contract Documents.
- Conformance to referenced standard(s).

8.4.6. Test Reports: After each test or inspection, promptly submit two copies of report; one to DEVELOPER and one to AHJ.

8.4.6.1. Include:

- Date issued.
- Project title and number.
- Name of inspector.
- Date and time of sampling or inspection.
- Identification of product and specifications section.
- Location in the Project.
- Type of test or inspection.
- Date of test or inspection.
- Results of test or inspection.
- Conformance with Contract Documents.

8.5. SPECIAL INSPECTION AGENCY

8.5.1. Developer will employ services of a Special Inspection Agency to perform inspections and associated testing and sampling required by the building code.

8.6. TESTING AND INSPECTION AGENCIES

8.6.1. Developer may employ services of an independent testing agency to perform additional testing and sampling associated with special inspections but not required by the building code.

8.7. EXECUTION – SCHEDULE OF SPECIAL INSPECTIONS, GENERAL

8.7.1. Frequency of Special Inspections: Special Inspections are indicated as continuous or periodic.

8.7.1.1. Continuous Special Inspection: Special Inspection Agency shall be present in the area where the work is being performed and observe the work at all times the work is in progress.

8.7.1.2. Periodic Special Inspection: Special Inspection Agency shall be present in the area where work is being performed and observe the work part-time or intermittently and at the completion of the work.

8.8. SPECIAL INSPECTIONS FOR CONCRETE CONSTRUCTION

8.8.1. Reinforcing Steel, Including Prestressing of Tendons and Placement: Verify compliance with approved contract documents and ACI 318, 3.5 and 7.1 through 7.7; periodic.

8.8.2. Reinforcing Steel Welding: Verify compliance with AWS D1.4 and ACI 318, 3.5.2; periodic.

8.8.3. Bolts Installed in Concrete: Where allowable loads have been increased or where strength design is used, verify compliance with approved contract documents and ACI 318, 8.1.3 and

8.8.4. 21.2.8 prior to and during placement of concrete; continuous.

8.8.5. Design Mix: Verify plastic concrete complies with the design mix in approved contract documents and with ACI 318, Chapter 4 and 5.2; periodic.

8.8.6. Specified Curing Temperature and Techniques: Verify compliance with approved contract documents and ACI 318, 5.11 through 5.13; periodic.

8.8.7. Concrete Strength in Situ: Verify concrete strength complies with approved contract documents and ACI 318,

6.2, for the following.

8.9. SPECIAL INSPECTIONS FOR MASONRY CONSTRUCTION

- 8.9.1. Masonry Structures Subject to Special Inspection:
- 8.9.1.1. Engineered masonry in structures classified as "low hazard..." and "substantial hazard to human life in the event of failure".
- 8.9.2. Verify each item below complies with approved contract documents and the applicable articles of ACI 530I530.1IERTA.
- 8.9.2.1. Inspections and Approvals:
- 8.9.2.1.1. Verify compliance with the required inspection provisions of the approved contract documents; periodic.
- 8.9.2.1.2. Verify approval of submittals required by contract documents; periodic.
- 8.9.2.2. Compressive Strength of Masonry: Verify compressive strength of masonry units prior to start of construction unless specifically exempted by code; periodic.
- 8.9.2.3. Slump Flow and Visual Stability Index (VSI): Verify compliance as self consolidating grout arrives on site; continuous.
- 8.9.2.4. Joints and Accessories: When masonry construction begins, verify:
- 8.9.2.4.1. Proportions of site prepared mortar; periodic.
- 8.9.2.4.2. Construction of mortar joints; periodic.
- 8.9.2.4.3. Location of reinforcement, connectors, prestressing tendons, anchorages, etc.; periodic.
- 8.9.2.5. Structural Elements, Joints, Anchors, Protection: During masonry construction, verify:
- 8.9.2.5.1. Size and location of structural elements; periodic.
- 8.9.2.5.2. Type, size and location of anchors, including anchorage of masonry to structural members, frames or other construction; periodic.
- 8.9.2.5.3. Size, grade and type of reinforcement, anchor bolts and prestressing tendons and anchorages; periodic.
- 8.9.2.5.4. Welding of reinforcing bars; continuous.
- 8.9.2.6. Grouting Preparation: Prior to grouting, verify:
- 8.9.2.6.1. Grout space is clean; periodic.
- 8.9.2.6.2. Correct placement of reinforcing, connectors, prestressing tendons and anchorages; periodic.
- 8.9.2.6.3. Correctly proportioned site prepared grouts and prestressing grout for bonded tendons; periodic.
- 8.9.2.6.4. Correctly constructed mortar joints; periodic.
- 8.9.2.7. Preparation of Grout Specimens, Mortar Specimens and Prisms: Observe preparation of specimens; periodic.

8.10. SPECIAL INSPECTIONS FOR PREFABRICATED WOOD CONSTRUCTION

- 8.10.1. Metal Plate Connected Wood Trusses with Clear Span of 60 feet (18.3 m) or More: Verify compliance of each item below with approved contract documents in general and with approved truss submittal package in particular.
- 8.10.1.1. Temporary restraint and bracing.
- 8.10.1.2. Permanent individual truss member restraint and bracing.

8.11. SPECIAL INSPECTIONS FOR SOILS

- 8.11.1. Materials and Placement: Verify each item below complies with approved construction documents and approved geotechnical report.
- 8.11.1.1. Design bearing capacity of material below shallow foundations; periodic.
- 8.11.1.2. Design depth of excavations and suitability of material at bottom of excavations; periodic.
- 8.11.1.3. Materials, densities, lift thicknesses; placement and compaction of backfill: continuous.
- 8.11.1.4. Subgrade, prior to placement of compacted fill; periodic.
- 8.11.2. Testing: Classify and test excavated material; periodic.

8.12. SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE

- 8.12.1. Structural Wood:
- 8.12.1.1. Field gluing; continuous.

- 8.12.1.2. Nailing, bolting, anchoring and other fastening of components within the seismic force-resisting system; periodic.
- 8.12.2. Designated Seismic System Verification: Verify label, anchorage or mounting conforms to certificate of compliance provided by manufacturer or fabricator.
- 8.12.3. Structural Testing for Seismic Resistance:
 - 8.12.3.1. Concrete reinforcement: Comply with ACI 318, Section 21.1.5.2.
 - 8.12.3.1.1. Materials Obtain mill certificates demonstrating compliance with ASTM A615; periodic.
 - 8.12.3.1.2. Welding: Perform chemical tests complying with ACI 318, Section 3.5.2 to determine weldability; periodic.
- 8.12.4. Structural Observations for Seismic Resistance: Visually observe structural system for general conformance with the approved contract documents; periodic.

8.13. SPECIAL INSPECTION AGENCY DUTIES AND RESPONSIBILITIES

- 8.13.1. Special Inspection Agency shall:
 - 8.13.1.1. Provide qualified personnel at site. Cooperate with Developer in performance of services.
 - 8.13.1.2. Perform specified sampling and testing of products in accordance with specified reference standards.
 - 8.13.1.3. Ascertain compliance of materials and products with requirements of Contract Documents.
 - 8.13.1.4. Promptly notify Developer of observed irregularities or non-conformance of work or products.
 - 8.13.1.5. Perform additional tests and inspections required by Developer.
 - 8.13.1.6. Submit reports of all tests or inspections specified.
- 8.13.2. Re-testing required because of non-conformance to specified requirements shall be performed by the same agency on instructions by Developer.
- 8.13.3. Re-testing required because of non-conformance to specified requirements shall be paid for by DEVELOPER.

8.14. TESTING AGENCY DUTIES AND RESPONSIBILITIES

- 8.14.1. Testing Agency Duties:
 - 8.14.1.1. Provide qualified personnel at site. Cooperate with Developer in performance of services.
 - 8.14.1.2. Perform specified sampling and testing of products in accordance with specified standards.
 - 8.14.1.3. Ascertain compliance of materials and mixes with requirements of Contract Documents.
 - 8.14.1.4. Promptly notify Developer of observed irregularities or non-conformance of work or products.
 - 8.14.1.5. Perform additional tests and inspections required by Developer.
 - 8.14.1.6. Submit reports of all tests or inspections specified.
- 8.14.2. Limits on Testing or Inspection Agency Authority:
 - 8.14.2.1. Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents.
 - 8.14.2.2. Agency may not approve or accept any portion of the work.
 - 8.14.2.3. Agency may not assume any duties of DEVELOPER.
 - 8.14.2.4. Agency has no authority to stop the work.
- 8.14.3. Re-testing required because of non-conformance to specified requirements shall be performed by the same agency on instructions by Developer.
- 8.14.4. Re-testing required because of non-conformance to specified requirements shall be paid for by DEVELOPER.

9. TEMPORARY FACILITIES AND CONTROLS

9.1. RELATED REQUIREMENTS

- 9.1.1. Vehicular Access and Parking
- 9.1.2. Security Procedures

9.2. BARRIERS

- 9.2.1. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition.
- 9.2.2. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

9.3. FENCING

Provide 6 foot (1.8 m) high fence around construction site; equip with vehicular and pedestrian gates with locks.

9.4. SECURITY – SEE SECTION 6

Provide security and facilities to protect Work, existing facilities, and Developer's operations from unauthorized entry, vandalism, or theft.

9.5. VEHICULAR ACCESS AND PARKING – SEE SECTION 10

- 9.5.1. Coordinate access and haul routes with governing authorities and Developer.
- 9.5.2. Provide and maintain access to fire hydrants, free of obstructions.
- 9.5.3. Provide means of removing mud from vehicle wheels before entering streets.
- 9.5.4. Provide temporary parking areas to accommodate construction personnel. When site space is not adequate, provide additional off-site parking.

9.6. WASTE REMOVAL

- 9.6.1. See Section 01 7419 - Waste Management, for additional requirements and Planning Division Conditions for Tentative Tract No. 18762 and Conditional Use Permit No 955 dated October 27, 2009 found under General Conditions 00 7200.
- 9.6.2. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
- 9.6.3. If materials to be recycled or re-used on the project must be stored on-site, provide suitable non-combustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the authorities having jurisdiction.

9.7. PRODUCTS – NOT USED

10. VEHICULAR ACCESS AND PARKING

10.1. PRODUCTS

10.1.1. MATERIALS

Materials for Permanent Construction: As specified in product specification sections, including earthwork, paving base, and topping.

10.2. EXECUTION

10.2.1. PARKING

Locate on construction site as approved by DEVELOPER.

10.2.2. NEW PERMANENT PAVEMENTS

Avoid traffic loading beyond paving design capacity. Tracked vehicles not allowed.

10.2.3. CONSTRUCTION PARKING CONTROL

- 10.2.3.1. Control vehicular parking to prevent interference with public traffic and parking, access by emergency vehicles, and Owner's operations.
- 10.2.3.2. Monitor parking of construction personnel's vehicles in existing facilities. Maintain vehicular access to and through parking areas.
- 10.2.3.3. Prevent parking on or adjacent to access roads or in non-designated areas.

10.2.4. FLAG PERSONS

Provide trained and equipped flag persons to regulate traffic when construction operations or traffic encroach on public traffic lanes.

10.2.5. FLARES AND LIGHTS

Use flares and lights during hours of low visibility to delineate traffic lanes and to guide traffic.

10.2.6. HAUL ROUTES

- 10.2.6.1. Consult with authority having jurisdiction, establish public thoroughfares to be used for haul routes and site access.
- 10.2.6.2. Confine construction traffic to designated haul routes.
- 10.2.6.3. Provide traffic control at critical areas of haul routes to regulate traffic, to minimize interference with public traffic.

10.2.7. MAINTENANCE

- 10.2.7.1. Maintain traffic and parking areas in a sound condition free of excavated material, construction equipment, Products, mud, snow, and ice.
- 10.2.7.2. Maintain existing paved areas used for construction; promptly repair breaks, potholes, low areas, standing water, and other deficiencies, to maintain paving and drainage in original, or specified, condition.

10.2.8. REMOVAL, REPAIR

Repair damage caused by installation.

11. PRODUCT REQUIREMENTS

11.1. RELATED REQUIREMENTS

- 11.1.1. Quality Requirements: Product quality monitoring
- 11.1.2. Construction Waste Management and Disposal: Waste disposal requirements potentially affecting packaging and substitutions.

11.2. SUBMITTALS

- 11.2.1. Product Data Submittals: Submit manufacturer's standard published data. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
- 11.2.2. Shop Drawing Submittals: Prepared specifically for this Project; indicate utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.
- 11.2.3. Sample Submittals: Illustrate functional and aesthetic characteristics of the product, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
 - 11.2.3.1. For selection from standard finishes, submit samples of the full range of the manufacturer's standard colors, textures, and patterns.

11.3. PRODUCT

11.3.1. NEW PRODUCTS

- 11.3.1.1. Provide new products unless specifically required or permitted by the Contract Documents.
- 11.3.1.2. Do not use products having any of the following characteristics:

11.3.2. PRODUCT OPTIONS

- 11.3.2.1. Products Specified by Reference Standards or by Description Only: Use any product meeting those standards or description.
- 11.3.2.2. Products Specified by Naming One or More Manufacturers: Use a product of one of the manufacturers named and meeting specifications, no options or substitutions allowed.
- 11.3.2.3. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not named.

11.3.3. MAINTENANCE MATERIALS

- 11.3.3.1. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections.
- 11.3.3.2. Deliver to Project site; obtain receipt prior to final payment.

11.4. EXECUTION

11.4.1. SUBSTITUTION PROCEDURES

- 11.4.1.1. Instructions to Bidders specify time restrictions for submitting requests for substitutions during the bidding period. Comply with requirements specified in this section.
- 11.4.1.2. DEVELOPER will consider requests for substitutions only within 15 days after date of Agreement.
- 11.4.1.3. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.
- 11.4.1.4. A request for substitution constitutes a representation that the submitter:
 - 11.4.1.4.1. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.
 - 11.4.1.4.2. Will provide the same warranty for the substitution as for the specified product.
 - 11.4.1.4.3. Will coordinate installation and make changes to other Work that may be required for the Work to be complete with no additional cost to Developer.
 - 11.4.1.4.4. Waives claims for additional costs or time extension that may subsequently become apparent.
- 11.4.1.5. Substitutions will not be considered when they are indicated or implied on shop drawing or product data submittals, without separate written request, or when acceptance will require revision to the Contract Documents.
- 11.4.1.6. Substitution Submittal Procedure:
 - 11.4.1.6.1. Submit three copies of request for substitution for consideration. Limit each request

to one proposed substitution.

11.4.1.6.2. Submit shop drawings, product data, and certified test results attesting to the proposed product equivalence. Burden of proof is on proposer.

11.4.2. TRANSPORTATION AND HANDLING

- 11.4.2.1. Coordinate schedule of product delivery to designated prepared areas in order to minimize site storage time and potential damage to stored materials.
- 11.4.2.2. Transport and handle products in accordance with manufacturer's instructions.
- 11.4.2.3. Transport materials in covered trucks to prevent contamination of product and littering of surrounding areas.
- 11.4.2.4. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.
- 11.4.2.5. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage.
- 11.4.2.6. Arrange for the return of packing materials, such as wood pallets, where economically feasible.

11.4.3. STORAGE AND PROTECTION

- 11.4.3.1. Designate receiving storage areas for incoming products so that they are delivered according to installation schedule and placed convenient to work area in order to minimize waste due to excessive materials handling and misapplication.
- 11.4.3.2. Store and protect products in accordance with manufacturers' instructions.
- 11.4.3.3. Store with seals and labels intact and legible.
- 11.4.3.4. Store sensitive products in weather tight, climate controlled, enclosures in an environment favorable to product.
- 11.4.3.5. For exterior storage of fabricated products, place on sloped supports above ground.
- 11.4.3.6. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.
- 11.4.3.7. Store loose granular materials on solid flat surfaces in a well-drained area. Prevent mixing with foreign matter.
- 11.4.3.8. Prevent contact with material that may cause corrosion, discoloration, or staining.
- 11.4.3.9. Provide equipment and personnel to store products by methods to prevent soiling, disfigurement, or damage.
- 11.4.3.10. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

12. EXECUTION AND CLOSEOUT REQUIREMENTS

12.1. QUALIFICATIONS

For survey work, employ a land surveyor registered in California and acceptable to DEVELOPER. Submit evidence of Surveyor's Errors and Omissions insurance coverage in the form of an Insurance Certificate.

12.2. PROJECT CONDITIONS

Ventilate enclosed areas to assist cure of materials, to dissipate humidity, and to prevent accumulation of dust, fumes, vapors, or gases.

12.3. COORDINATION

- 12.3.1. Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.
- 12.3.2. Notify affected utility companies and comply with their requirements.
- 12.3.3. Verify that utility requirements and characteristics of new operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.
- 12.3.4. Coordinate space requirements, supports, and installation of mechanical and electrical work that are indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
- 12.3.5. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction.

Coordinate locations of fixtures and outlets with finish elements.

12.3.6. Coordinate completion and clean-up of work of separate sections.

12.3.7. After Developer occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of Developer's activities.

12.3.8.

12.4. PRODUCT

12.4.1. PATCHING MATERIALS

12.4.1.1. New Materials: As specified in product sections; match existing products and work for patching and extending work.

12.4.1.2. Type and Quality of Existing Products: Determine by inspecting and testing products where necessary, referring to existing work as a standard.

12.4.1.3. Product Substitution: For any proposed change in materials, submit request for substitution described in Section 11.4

12.5. EXECUTION

12.5.1. EXAMINATION

12.5.1.1. Verify that existing site conditions and substrate surfaces are acceptable for subsequent work. Start of work means acceptance of existing conditions.

12.5.1.2. Verify that existing substrate is capable of structural support or attachment of new work being applied or attached.

12.5.1.3. Examine and verify specific conditions described in individual specification sections.

12.5.1.4. Take field measurements before confirming product orders or beginning fabrication, to minimize waste due to over-ordering or misfabrication.

12.5.1.5. Verify that utility services are available, of the correct characteristics, and in the correct locations.

12.5.1.6. Prior to Cutting: Examine existing conditions prior to commencing work, including elements subject to damage or movement during cutting and patching. After uncovering existing work, assess conditions affecting performance of work. Beginning of cutting or patching means acceptance of existing conditions.

12.5.2. PREPARATION

12.5.2.1. Clean substrate surfaces prior to applying next material or substance.

12.5.2.2. Seal cracks or openings of substrate prior to applying next material or substance.

12.5.2.3. Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

12.5.3. LAYING OUT THE WORK

12.5.3.1. Verify locations of survey control points prior to starting work.

12.5.3.2. Promptly notify DEVELOPER of any discrepancies discovered.

12.5.3.3. Protect survey control points prior to starting site work; preserve permanent reference points during construction.

12.5.3.4. Promptly report to DEVELOPER the loss or destruction of any reference point or relocation required because of changes in grades or other reasons.

12.5.3.5. Replace dislocated survey control points based on original survey control. Make no changes without prior written notice to DEVELOPER.

12.5.3.6. Utilize recognized engineering survey practices.

12.5.3.7. Establish elevations, lines and levels. Locate and lay out by instrumentation and similar appropriate means:

12.5.3.7.1. Site improvements including pavements; stakes for grading, fill and topsoil placement; utility locations, slopes, and invert elevations.

12.5.3.7.2. Grid or axis for structures.

Building foundation, column locations, ground floor elevations, and .

12.5.3.8. Periodically verify layouts by same means.

12.5.3.9. Maintain a complete and accurate log of control and survey work as it progresses.

12.5.4. GENERAL INSTALLATION REQUIREMENTS

12.5.4.1. Install products as specified in individual sections, in accordance with manufacturer's instructions

and recommendations, and so as to avoid waste due to necessity for replacement.

- 12.5.4.2. Make vertical elements plumb and horizontal elements level, unless otherwise indicated.
- 12.5.4.3. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and horizontal lines, unless otherwise indicated.
- 12.5.4.4. Make consistent texture on surfaces, with seamless transitions, unless otherwise indicated.
- 12.5.4.5. Make neat transitions between different surfaces, maintaining texture and appearance.

12.5.5. CUTTING AND PATCHING

- 12.5.5.1. Whenever possible, execute the work by methods that avoid cutting or patching.
- 12.5.5.2. Perform whatever cutting and patching is necessary to:
 - Complete the work.
 - Fit products together to integrate with other work.
 - Provide openings for penetration of mechanical, electrical, and other services.
 - Match work that has been cut to adjacent work.
 - Repair areas adjacent to cuts to required condition.
 - Repair new work damaged by subsequent work.
 - Remove samples of installed work for testing when requested.
 - Remove and replace defective and non-conforming work.
- 12.5.5.3. Execute work by methods that avoid damage to other work and that will provide appropriate surfaces to receive patching and finishing. In existing work, minimize damage and restore to original condition.
- 12.5.5.4. Employ original installer to perform cutting for weather exposed and moisture resistant elements, and sight exposed surfaces.
- 12.5.5.5. Cut rigid materials using masonry saw or core drill. Pneumatic tools not allowed without prior approval.
- 12.5.5.6. Restore work with new products in accordance with requirements of Contract Documents.
- 12.5.5.7. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.
- 12.5.5.8. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material in accordance with Section 07 8400, to full thickness of the penetrated element.
- 12.5.5.9. Patching:
 - 12.5.5.9.1. Finish patched surfaces to match finish that existed prior to patching. On continuous surfaces, refinish to nearest intersection or natural break. For an assembly, refinish entire unit.
 - 12.5.5.9.2. Match color, texture, and appearance.
 - 12.5.5.9.3. Repair patched surfaces that are damaged, lifted, discolored, or showing other imperfections due to patching work. If defects are due to condition of substrate, repair substrate prior to repairing finish.

12.5.6. PROGRESS CLEANING

- 12.5.6.1. Maintain areas free of waste materials, debris, and rubbish. Maintain site in a clean and orderly condition.
- 12.5.6.2. Remove debris and rubbish from pipe chases, plenums, attics, crawl spaces, and other closed or remote spaces, prior to enclosing the space.
- 12.5.6.3. Broom and vacuum clean interior areas prior to start of surface finishing, and continue cleaning to eliminate dust.
- 12.5.6.4. Collect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site; do not burn or bury.

12.5.7. PROTECTION OF INSTALLED WORK

- 12.5.7.1. Protect installed work from damage by construction operations.
- 12.5.7.2. Provide special protection where specified in individual specification sections.
- 12.5.7.3. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
- 12.5.7.4. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.

- 12.5.7.5. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
- 12.5.7.6. Prohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
- 12.5.7.7. Remove protective coverings when no longer needed; reuse or recycle plastic coverings if possible.

12.5.8. ADJUSTING

- 12.5.8.1. Adjust operating products and equipment to ensure smooth and unhindered operation.

12.5.9. FINAL CLEANING

- 12.5.9.1. Use cleaning materials that are nonhazardous.
- 12.5.9.2. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.
- 12.5.9.3. Remove all labels that are not permanent. Do not paint or otherwise cover fire test labels or nameplates on mechanical and electrical equipment.
- 12.5.9.4. Clean equipment and fixtures to a sanitary condition with cleaning materials appropriate to the surface and material being cleaned.
- 12.5.9.5. Clean filters of operating equipment.
- 12.5.9.6. Clean debris from roofs, gutters, downspouts, and drainage systems.
- 12.5.9.7. Clean site; sweep paved areas, rake clean landscaped surfaces.
- 12.5.9.8. Remove waste, surplus materials, trash/rubbish, and construction facilities from the site; dispose of in legal manner; do not burn or bury.

12.5.10. CLOSEOUT PROCEDURES

- 12.5.10.1. Make submittals that are required by governing or other authorities.
- 12.5.10.2. Notify DEVELOPER when work is considered ready for Substantial Completion.
- 12.5.10.3. Submit written certification that Contract Documents have been reviewed, work has been inspected, and that work is complete in accordance with Contract Documents and ready for DEVELOPER's review.
- 12.5.10.4. Correct items of work listed in executed Certificates of Substantial Completion and comply with requirements for access to Developer-occupied areas.
- 12.5.10.5. Notify DEVELOPER when work is considered finally complete.
- 12.5.10.6. Complete items of work determined by DEVELOPER's final inspection.

13. CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL**13.1. WASTE MANAGEMENT REQUIREMENTS**

- 13.1.1. Developer requires that this project generate the least amount of trash and waste possible.
- 13.1.2. Employ processes that ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, contamination, or other factors.
- 13.1.3. Minimize trash/waste disposal in landfills; reuse, salvage, or recycle as much waste as economically feasible.
- 13.1.4. Reference General Conditions for conditions of Waste Management Recycling Requirements.
- 13.1.5. Contractor shall submit periodic Waste Disposal Reports; all landfill disposal, incineration, recycling, salvage, and reuse must be reported regardless of to whom the cost or savings accrues; use the same units of measure on all reports.
- 13.1.6. Methods of trash/waste disposal that are not acceptable are:
 - Burning on the project site.
 - Burying on the project site.
 - Dumping or burying on other property, public or private.
 - Other illegal dumping or burying.
- 13.1.7. Regulatory Requirements: Contractor is responsible for knowing and complying with regulatory requirements, including but not limited to Federal, state and local requirements, pertaining to legal disposal of all construction and demolition waste materials.

13.2. DEFINITIONS

- 13.2.1. Clean: Untreated and unpainted; not contaminated with oils, solvents, caulk, or the like.

- 13.2.2. Construction and Demolition Waste: Solid wastes typically including building materials, packaging, trash, debris, and rubble resulting from construction, remodeling, repair and demolition operations.
- 13.2.3. Hazardous: Exhibiting the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity or reactivity.
- 13.2.4. Nonhazardous: Exhibiting none of the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity, or reactivity.
- 13.2.5. Nontoxic: Neither immediately poisonous to humans nor poisonous after a long period of exposure.
- 13.2.6. Recyclable: The ability of a product or material to be recovered at the end of its life cycle and remanufactured into a new product for reuse by others.
- 13.2.7. Recycle: To remove a waste material from the project site to another site for remanufacture into a new product for reuse by others.
- 13.2.8. Recycling: The process of sorting, cleansing, treating and reconstituting solid waste and other discarded materials for the purpose of using the altered form. Recycling does not include burning, incinerating, or thermally destroying waste.
- 13.2.9. Return: To give back reusable items or unused products to vendors for credit.
- 13.2.10. Reuse: To reuse a construction waste material in some manner on the project site.
- 13.2.11. Salvage: To remove a waste material from the project site to another site for resale or reuse by others.
- 13.2.12. Sediment: Soil and other debris that has been eroded and transported by storm or well production run-off water.
- 13.2.13. Source Separation: The act of keeping different types of waste materials separate beginning from the first time they become waste.
- 13.2.14. Toxic: Poisonous to humans either immediately or after a long period of exposure.
- 13.2.15. Trash: Any product or material unable to be reused, returned, recycled, or salvaged.
- 13.2.16. Waste: Extra material or material that has reached the end of its useful life in its intended use. Waste includes salvageable, returnable, recyclable, and reusable material.

13.3. SUBMITTALS

- 13.3.1. Administrative Requirements, for submittal procedures.
- 13.3.2. Waste Disposal Reports: Submit at specified intervals, with details of quantities of trash and waste, means of disposal or reuse, and costs; show both totals to date and since last report.
 - 13.3.2.1. Submit updated Report with each Application for Progress Payment; failure to submit Report will delay payment.
 - 13.3.2.2. Submit Report on a form acceptable to Developer.
 - 13.3.2.3. Landfill Disposal: Include the following information:
 - Identification of material.
 - Amount, in tons or cubic yards (cubic meters), of trash/waste material from the project disposed of in landfills.
 - State the identity of landfills, total amount of tipping fees paid to landfill, and total disposal cost.
 - Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost.
 - 13.3.2.4. Incinerator Disposal: Include the following information:
 - Identification of material.
 - Amount, in tons or cubic yards (cubic meters), of trash/waste material from the project delivered to incinerators.
 - State the identity of incinerators, total amount of fees paid to incinerator, and total disposal cost.
 - Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost.
 - 13.3.2.5. Recycled and Salvaged Materials: Include the following information for each:
 - Identification of material, including those retrieved by installer for use on other projects.
 - Amount, in tons or cubic yards (cubic meters), date removed from the project site, and receiving party.
 - Transportation cost, amount paid or received for the material, and the net total cost or

savings of salvage or recycling each material.

- Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost.
- Certification by receiving party that materials will not be disposed of in landfills or by incineration.

13.3.2.6. Material Reused on Project: Include the following information for each:

- Identification of material and how it was used in the project.
- Amount, in tons or cubic yards (cubic meters).
- Include weight tickets as evidence of quantity.

13.3.2.7. Other Disposal Methods: Include information similar to that described above, as appropriate to disposal method.

13.4. EXECUTION

13.4.1. WASTE MANAGEMENT PROCEDURES

- 13.4.1.1. See Section 13.3 for additional requirements for project meetings, reports, submittal procedures, and project documentation.
- 13.4.1.2. See Section 13.1 for additional requirements related to trash/waste collection and removal facilities and services.
- 13.4.1.3. See Section 13.3 for waste prevention requirements related to delivery, storage, and handling.
- 13.4.1.4. See Section 13.3 for trash/waste prevention procedures related to demolition, cutting and patching, installation, protection, and cleaning.

13.4.2. WASTE MANAGEMENT PLAN IMPLEMENTATION

- 13.4.2.1. Manager: Designate an on-site person or persons responsible for instructing workers and overseeing and documenting results of the Waste Management Plan.
- 13.4.2.2. Communication: Distribute copies of the Waste Management Plan to job site foreman, each subcontractor and Developer.
- 13.4.2.3. Instruction: Provide on-site instruction of appropriate separation, handling, and recycling, salvage, reuse, and return methods to be used by all parties at the appropriate stages of the project.
- 13.4.2.4. Meetings: Discuss trash/waste management goals and issues at project meetings.
- Pre-bid meeting
 - Pre-construction meeting
 - Regular job-site meetings
- 13.4.2.5. Facilities: Provide specific facilities for separation and storage of materials for recycling, salvage, reuse, return, and trash disposal, for use by all contractors and installers.
- 13.4.2.5.1. Provide containers as required.
- 13.4.2.5.2. Provide adequate space for pick-up and delivery and convenience to subcontractors.
- 13.4.2.5.3. Keep recycling and trash/waste bin areas neat and clean and clearly marked in order to avoid contamination of materials.
- 13.4.2.6. Hazardous Wastes: Separate, store, and dispose of hazardous wastes according to applicable regulations.
- 13.4.2.7. Recycling: Separate, store, protect, and handle at the site identified recyclable waste products in order to prevent contamination of materials and to maximize recyclability of identified materials. Arrange for timely pickups from the site or deliveries to recycling facility in order to prevent contamination of recyclable materials.
- 13.4.2.8. Reuse of Materials On-Site: Set aside, sort, and protect separated products in preparation for reuse.
- 13.4.2.9. Salvage: Set aside, sort, and protect products to be salvaged for reuse off-site.

14. DEMOLITION

14.1. DEMOLITION REQUIREMENTS

- 14.1.1. Building demolition and site clearing and grubbing.
- 14.1.2. Abandonment and removal of existing utilities and utility structures.

14.2. RELATED REQUIREMENTS

- 14.2.1. Available Project Information: Existing building survey conducted by Ambient Environmental information about known hazardous materials.
- 14.2.2. Summary: Limitations on DEVELOPER's use of site and premises.
- 14.2.3. Summary: Sequencing and staging requirements.
- 14.2.4. Temporary Facilities and Controls: Site fences, security, protective barriers, and waste removal.
- 14.2.5. Execution and Closeout Requirements: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation of removed products; temporary bracing and shoring.
- 14.2.6. Construction Waste Management and Disposal: Limitations on disposal of removed materials; requirements for recycling.
- 14.2.7. Grading: Topsoil removal.
- 14.2.8. Grading: Fill material for filling holes, pits, and excavations generated as a result of removal operations.
- 14.2.9. Fill: Filling holes, pits, and excavations generated as a result of removal operations.

14.3. REFERENCE STANDARDS

- 14.3.1. 29 CFR 1926 - U.S. Occupational Safety and Health Standards; current edition.
- 14.3.2. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2009.

14.4. SUBMITTALS

- 14.4.1. Administrative Requirements, for submittal procedures.
- 14.4.2. Site Plan: Showing:
 - 14.4.2.1. Areas for temporary construction and field offices.
- 14.4.3. Demolition Plan: Submit demolition plan as specified by OSHA and local authorities.
 - 14.4.3.1. Indicate extent of demolition, removal sequence, bracing and shoring, and location and construction of barricades and fences.
 - 14.4.3.2. Identify demolition firm and submit qualifications.
 - 14.4.3.3. Include a summary of safety procedures.
- 14.4.4. Project Record Documents: Accurately record actual locations of capped and active utilities and subsurface construction.

14.5. QUALITY ASSURANCE

- 14.5.1. Demolition Firm Qualifications: Company specializing in the type of work required.
 - 14.5.1.1. Minimum of 5 years of documented experience.

14.6. EXECUTION

14.6.1. SCOPE

- 14.6.1.1. Remove the entire buildings and foundations as noted on the drawings.
- 14.6.1.2. Remove paving and curbs as required to accomplish new work.
- 14.6.1.3. Remove all other paving and curbs within site boundaries.
- 14.6.1.4. Within area of new construction, remove walls and footings to a minimum of 10 feet below finished grade.
- 14.6.1.5. Outside area of new construction, remove foundation walls and footings to a minimum of 2 feet (600mm) below finished grade.
- 14.6.1.6. Remove concrete slabs on grade within site boundaries.
- 14.6.1.7. Remove manholes and manhole covers, curb inlets and catch basins.
- 14.6.1.8. Remove fences and gates.
- 14.6.1.9. Remove creosote-treated wood utility poles.
- 14.6.1.10. Remove all trees, shrubs, plants and vegetation as noted on the drawings.

14.6.2. GENERAL PROCEDURES AND PROJECT CONDITIONS

- 14.6.2.1. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
 - 14.6.2.1.1. Obtain required permits.
 - 14.6.2.1.2. Use of explosives is not permitted.
 - 14.6.2.1.3. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
 - 14.6.2.1.4. Provide, erect, and maintain temporary barriers and security devices.

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- 14.6.2.1.5. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
- 14.6.2.1.6. Do not close or obstruct roadways or sidewalks without permit.
- 14.6.2.1.7. Conduct operations to minimize obstruction of public and private entrances and exits; do not obstruct required exits at any time; protect persons using entrances and exits from removal operations.
- 14.6.2.1.8. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon or limit access to their property.
- 14.6.2.2. Do not begin removal until receipt of notification to proceed from the DEVELOPER.
- 14.6.2.3. Minimize production of dust due to demolition operations; do not use water if that will result in flooding, sedimentation of public waterways or storm sewers, or other pollution.
- 14.6.2.4. If hazardous materials are discovered during removal operations, stop work and notify Developer; hazardous materials include regulated asbestos containing materials, lead, PCB's, and mercury.
- 14.6.2.5. Hazardous Materials: Comply with 29 CFR 1926 and state and local regulations.
- 14.6.2.6. Perform demolition in a manner that maximizes salvage and recycling of materials.
 - 14.6.2.6.1. Comply with requirements of Section 01 7419 - Waste Management.
 - 14.6.2.6.2. Dismantle existing construction and separate materials.
 - 14.6.2.6.3. Set aside reusable, recyclable, and salvageable materials; store and deliver to collection point or point of reuse.
- 14.6.2.7. Partial Removal of Paving and Curbs: Neatly saw cut at right angle to surface.

14.6.3. EXISTING UTILITIES

- 14.6.3.1. Coordinate work with utility companies; notify before starting work and comply with their requirements; obtain required permits.
- 14.6.3.2. Protect existing utilities to remain from damage.
- 14.6.3.3. Do not disrupt public utilities without permit from authority having jurisdiction.
- 14.6.3.4. Do not close, shut off, or disrupt existing life safety systems that are in use without at least 7 days prior written notification to Developer.
- 14.6.3.5. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior written notification to Developer.
- 14.6.3.6. Locate and mark utilities to remain; mark using highly visible tags or flags, with identification of utility type; protect from damage due to subsequent construction, using substantial barricades if necessary.
- 14.6.3.7. Remove exposed piping, valves, meters, equipment, supports, and foundations of disconnected and abandoned utilities.
- 14.6.3.8. Prepare building demolition areas by disconnecting and capping utilities outside the demolition zone; identify and mark utilities to be subsequently reconnected, in same manner as other utilities to remain.

14.6.4. DEBRIS AND WASTE REMOVAL

- 14.6.4.1. Remove debris, junk, and trash from site.
- 14.6.4.2. Remove from site all materials not to be reused on site; comply with requirements of Section 01 7419 - Waste Management.
- 14.6.4.3. Leave site in clean condition, ready for subsequent work.
- 14.6.4.4. Clean up spillage and wind-blown debris from public and private lands.

15. SITE CLEARING

Clearing and protection of vegetation.

Removal of existing debris.

15.1. RELATED REQUIREMENTS

- 15.1.1. Conditions of Approval
- 15.1.2. Water Quality Management Plan
- 15.1.3. Summary: Limitations on DEVELOPER's use of site and premises.
- 15.1.4. Temporary Facilities and Controls: Site fences, security, protective barriers, and waste removal.

- 15.1.5. Execution and Closeout Requirements: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation of removed products.
- 15.1.6. Construction Waste Management and Disposal: Limitations on disposal of removed materials; requirements for recycling.
- 15.1.7. Demolition: Removal of built elements and utilities.
- 15.1.8. Grading: Topsoil removal.
- 15.1.9. Grading: Fill material for filling holes, pits, and excavations generated as a result of removal operations.
- 15.1.10. Fill: Fill material for filling holes, pits, and excavations generated as a result of removal operations.

15.2. SUBMITTALS

- 15.2.1. See Section 01 3100 - Administrative Requirements, for submittal procedures.
- 15.2.2. Site Plan: Showing:
 - 15.2.2.1. Areas for temporary construction and field offices.

15.3. PRODUCTS

15.3.1. MATERIALS

- 15.3.1.1. Fill Material: As specified under Grading

15.4. EXECUTION

15.4.1. SITE CLEARING

- 15.4.1.1. Comply with other requirements specified in Section 01 7000.
- 15.4.1.2. Minimize production of dust due to clearing operations; do not use water if that will result in ice, flooding, sedimentation of public waterways or storm sewers, or other pollution.

15.4.2. EXISTING UTILITIES AND BUILT ELEMENTS

- 15.4.2.1. Coordinate work with utility companies; notify before starting work and comply with their requirements; obtain required permits.
- 15.4.2.2. Protect existing utilities to remain from damage.
- 15.4.2.3. Do not disrupt public utilities without permit from authority having jurisdiction.
- 15.4.2.4. Protect existing structures and other elements that are not to be removed.

15.4.3. VEGETATION

- 15.4.3.1. Scope: Remove trees, shrubs, brush, and stumps in areas to be covered by building structure, paving, playing fields, lawns, and planting beds.
- 15.4.3.2.
- 15.4.3.3. Reference Contract Drawings for specific items to be demolished, removed, relocated, and/or abandoned.
- 15.4.3.4. Install substantial, highly visible fences at least 3 feet (1 m) high to prevent inadvertent damage to vegetation to remain:
- 15.4.3.5. In areas where vegetation must be removed but no construction will occur other than pervious paving, remove vegetation with minimum disturbance of the subsoil.
- 15.4.3.6. Vegetation Removed: Do not burn, bury, landfill, or leave on site, except as indicated.
 - 15.4.3.6.1. Chip, grind, crush, or shred vegetation for mulching, composting, or other purposes; preference should be given to on-site uses.
 - 15.4.3.6.2. Trees: Sell if marketable; if not, treat as specified for other vegetation removed; remove stumps and roots to depth of 18 inches (450 mm).
 - 15.4.3.6.3. Sod: Re-use on site if possible; otherwise sell if marketable, and if not, treat as specified for other vegetation removed.
 - 15.4.3.6.4. Fill holes left by removal of stumps and roots, using suitable fill material, with top surface neat in appearance and smooth enough not to constitute a hazard to pedestrians.
- 15.4.3.7. Dead Wood: Remove all dead trees (standing or down), limbs, and dry brush on entire site; treat as specified for vegetation removed.
- 15.4.3.8. Restoration: If vegetation outside removal limits or within specified protective fences is damaged or destroyed due to subsequent construction operations, replace at no cost to Developer.

15.4.4. DEBRIS

- 15.4.4.1. Remove debris, junk, and trash from site.

15.4.4.2. Leave site in clean condition, ready for subsequent work.

15.4.4.3. Clean up spillage and wind-blown debris from public and private lands.

16. EXCAVATION

Excavating for building volume below grade, footings, slabs-on-grade, paving, site structures, and utilities within the building.

Trenching for utilities outside the building to utility main connections.

Trenching for utilities outside the building for utility main runs.

16.1. RELATED REQUIREMENTS

16.1.1. Geotechnical report; bore hole locations and findings of subsurface materials.

16.1.2. Water Quality Management Plan

16.1.3. Grading: Soil removal from surface of site.

16.1.4. Grading: Grading.

16.1.5. Trenching: Excavating for utility trenches outside the building to utility main connections.

16.1.6. Fill: Fill materials, filling, and compacting.

16.2. EXECUTION

16.2.1. EXAMINATION

Verify that survey bench mark and intended elevations for the work are as indicated.

16.2.2. PREPARATION

16.2.2.1. Identify required lines, levels, contours, and datum locations.

16.2.3. EXCAVATING

16.2.3.1. Excavate to accommodate new structures and construction operations.

16.2.3.2. Notify DEVELOPER of unexpected subsurface conditions and discontinue affected Work in area until notified to resume work.

16.2.3.3. Slope banks of excavations deeper than 4 feet (1.2 meters) to angle of repose or less until shored.

16.2.3.4. Do not interfere with 45 degree bearing splay of foundations.

16.2.3.5. Cut utility trenches wide enough to allow inspection of installed utilities. Coordination with DEVELOPER and Utility Companies required.

16.2.3.6. Hand trim excavations. Remove loose matter.

16.2.3.7. Correct areas that are over-excavated and load-bearing surfaces that are disturbed; see Section 31 2323.

16.2.3.8. Grade top perimeter of excavation to prevent surface water from draining into excavation.

16.2.3.9. Remove excavated material that is unsuitable for re-use from site.

16.2.3.10. Stockpile excavated material to be re-used in area designated on site in accordance with all state and local regulations.

16.2.3.11. Remove excess excavated material from site.

16.2.4. FIELD QUALITY CONTROL

16.2.4.1. Quality Requirements and Contract Drawings, for general requirements for field inspection and testing.

16.2.4.2. Provide for visual inspection of load-bearing excavated surfaces before placement of foundations.

16.2.5. PROTECTION

16.2.5.1. Prevent displacement of banks and keep loose soil from falling into excavation; maintain soil stability.

16.2.5.2. Protect bottom of excavations and soil adjacent to and beneath foundation from freezing.

17. TRENCHING

Backfilling and compacting for utilities outside the building to utility main connections and for utility mains.

17.1. RELATED REQUIREMENTS

17.1.1. Geotechnical report; bore hole locations and findings of subsurface materials.

17.1.2. Grading: Site grading.

17.1.3. Excavation: Building and foundation excavating.

17.1.4. Fill: Backfilling at building and foundations.

17.2. DEFINITIONS

17.2.1. Finish Grade Elevations: Indicated on drawings.

17.2.2. Subgrade Elevations: Indicated on drawings.

17.3. REFERENCES

17.3.1. AASHTO T 180 - Standard Specification for Moisture-Density Relations of Soils Using a 4.54 kg (10-lb) Rammer and a 457 mm (18 in.) Drop; American Association of State Highway and Transportation Officials; 2010

17.3.2. ASTM D698 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³)); 2012.

17.3.3. ASTM D1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN m/m³)); 2012.

17.4. DELIVERY, STORAGE, AND HANDLING

17.4.1. When necessary, store materials on site in advance of need.

17.4.2. When fill materials need to be stored on site, locate stockpiles where designated.

17.4.2.1. Separate differing materials with dividers or stockpile separately to prevent intermixing.

17.4.2.2. Prevent contamination.

17.4.2.3. Protect stockpiles from erosion and deterioration of materials.

17.5. PRODUCTS

17.5.1. FILL MATERIALS

Reference Contract Drawings and Geotechnical Report(s).

17.5.2. SOURCE QUALITY CONTROL

17.5.2.1. Quality Requirements, for general requirements for testing and analysis of soil material.

17.5.2.2. Where fill materials are specified by reference to a specific standard, testing of samples for compliance will be provided before delivery to site.

17.5.2.3. If tests indicate materials do not meet specified requirements, change material and retest.

17.6. EXECUTION

17.6.1. EXAMINATION

Verify that survey bench marks and intended elevations for the work are as indicated.

17.6.2. PREPARATION

Identify required lines, levels, contours, and datum locations.

17.6.3. TRENCHING

17.6.3.1. Notify DEVELOPER of unexpected subsurface conditions and discontinue affected Work in area until notified to resume work.

17.6.3.2. Slope banks of excavations deeper than 4 feet (1.2 meters) to angle of repose or less until shored.

17.6.3.3. Do not interfere with 45 degree bearing splay of foundations.

17.6.3.4. Cut trenches wide enough to allow inspection of installed utilities.

17.6.3.5. Hand trim excavations. Remove loose matter.

17.6.3.6. Remove large stones and other hard matter that could damage piping or impede consistent backfilling or compaction.

17.6.3.7. Remove excavated material that is unsuitable for re-use from site.

17.6.3.8. Remove excess excavated material from site.

17.6.4. PREPARATION FOR UTILITY PLACEMENT

17.6.4.1. Cut out soft areas of subgrade not capable of compaction in place. Backfill with Fill Type described in Geotechnical Report(s).

17.6.4.2. Compact subgrade to density equal to or greater than requirements for subsequent fill material.

17.6.4.3. Until ready to backfill, maintain excavations and prevent loose soil from falling into excavation.

17.6.5. BACKFILLING

17.6.5.1. Backfill to contours and elevations indicated using unfrozen materials.

17.6.5.2. Employ a placement method that does not disturb or damage other work.

17.6.5.3. Systematically fill to allow maximum time for natural settlement. Do not fill over porous, wet, frozen or spongy subgrade surfaces.

17.6.5.4. Maintain optimum moisture content of fill materials to attain required compaction density.

17.6.5.5. Slope grade away from building minimum 2 inches in 10 ft (50 mm in 3 m) , unless noted otherwise. Make gradual grade changes. Blend slope into level areas.

- 17.6.5.6. Correct areas that are over-excavated.
 - 17.6.5.6.1. Other areas: Use general fill, flush to required elevation, compacted to minimum 97 percent of maximum dry density.
- 17.6.5.7. Compaction Density Unless Otherwise Specified or Indicated:
- 17.6.5.8. Reshape and re-compact fills subjected to vehicular traffic.

17.6.6. FIELD QUALITY CONTROL

- 17.6.6.1. Quality Requirements, for general requirements for field inspection and testing.
- 17.6.6.2. Evaluate results in relation to compaction curve determined by testing uncompacted material in accordance with ASTM D698 ("standard Proctor"), ASTM D1557 ("modified Proctor"), or AASHTO T 180.
- 17.6.6.3. If tests indicate work does not meet specified requirements, remove work, replace and retest.

17.6.7. CLEANING

Remove unused stockpiled materials, leave area in a clean and neat condition. Grade stockpile area to prevent standing surface water.

18. FILL

Filling, backfilling, and compacting for building volume below grade, footings, slabs-on-grade, paving, and site structures. Backfilling and compacting for utilities outside the building to utility main connections.

Filling holes, pits, and excavations generated as a result of removal (demolition) operations.

18.1. RELATED REQUIREMENTS

- 18.1.1. Geotechnical report; bore hole locations and findings of subsurface materials.
- 18.1.2. Water Quality Management Plan
- 18.1.3. Cast-in-Place Concrete.
- 18.1.4. Grading: Removal and handling of soil to be re-used.
- 18.1.5. Grading: Site grading.
- 18.1.6. Excavation: Removal and handling of soil to be re-used.
- 18.1.7. Trenching: Excavating for utility trenches outside the building to utility main connections.

18.2. DEFINITIONS

- 18.2.1. Finish Grade Elevations: Indicated on drawings.
- 18.2.2. Subgrade Elevations: Indicated on drawings.

18.3. REFERENCE STANDARDS

- 18.3.1. ASTM D698 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³)); 2012.
- 18.3.2. ASTM D1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN m/m³)); 2012.

18.4. SUBMITTALS

- 18.4.1. Administrative Requirements, for submittal procedures.
- 18.4.2. Samples: 10 lb (4.5 kg) sample of each type of fill; submit in air-tight containers to testing laboratory.
- 18.4.3. Materials Sources: If applicable, submit name of imported materials source.
- 18.4.4. Compaction Density Test Reports.

18.5. DELIVERY, STORAGE, AND HANDLING

- 18.5.1. When fill materials need to be stored on site, locate stockpiles where designated.
 - 18.5.1.1. Separate differing materials with dividers or stockpile separately to prevent intermixing.
 - 18.5.1.2. Prevent contamination.
 - 18.5.1.3. Protect stockpiles from erosion and deterioration of materials.
 - 18.5.1.4. Reference WQMP Plan for further stockpile requirements.

18.6. PRODUCTS

18.6.1. FILL MATERIALS

Reference Geotechnical Report(s) and Contract Drawings for fill materials required

18.6.2. ACCESSORIES

Vapor Retarder: Reference contract drawings and Geotechnical Report for specifics.

18.6.3. SOURCE QUALITY CONTROL

- 18.6.3.1. Where fill materials are specified by reference to a specific standard, testing of samples for

compliance will be provided before delivery to site.

18.6.3.2. If tests indicate materials do not meet specified requirements, change material and retest.

18.7. EXECUTION

18.7.1. EXAMINATION

18.7.1.1. Verify that survey bench marks and intended elevations for the Work are as indicated.

18.7.1.2. Identify required lines, levels, contours, and datum locations.

18.7.2. PREPARATION

18.7.2.1. Scarify and proof roll (as necessary) subgrade surface to a depth indicated on contract drawings to identify soft spots.

18.7.2.2. Cut out soft areas of subgrade not capable of compaction in place. Backfill with required fill per Geotechnical Report and Contract Drawings.

18.7.2.3. Compact subgrade to density equal to or greater than requirements for subsequent fill material.

18.7.2.4. Until ready to fill, maintain excavations and prevent loose soil from falling into excavation.

18.7.3. FILLING

18.7.3.1. Fill to contours and elevations indicated using unfrozen materials.

18.7.3.2. Employ a placement method that does not disturb or damage other work.

18.7.3.3. Systematically fill to allow maximum time for natural settlement. Do not fill over porous, wet, frozen or spongy subgrade surfaces.

18.7.3.4. Maintain optimum moisture content of fill materials to attain required compaction density.

18.7.3.5. Slope grade away from building minimum 2 inches in 10 ft (50 mm in 3 m) , unless noted otherwise. Make gradual grade changes. Blend slope into level areas.

18.7.3.6. Correct areas that are over-excavated.

18.7.3.6.1. Other areas: Use general fill, flush to required elevation, compacted to minimum 97 percent of maximum dry density.

18.7.3.7. Reference Geotechnical Report and Contract Drawings for Compaction Density.

18.7.3.8. Reshape and re-compact fills subjected to vehicular traffic.

18.7.4. FIELD QUALITY CONTROL

18.7.4.1. Quality Requirements, for general requirements for field inspection and testing.

18.7.4.2. Evaluate results in relation to compaction curve determined by testing uncompacted material in accordance with ASTM D698 ("standard Proctor"), ASTM D1557 ("modified Proctor"), or AASHTO T 180.

18.7.4.3. If tests indicate work does not meet specified requirements, remove work, replace and retest.

18.7.5. CLEANING

Remove unused stockpiled materials, leave area in a clean and neat condition. Grade stockpile area to prevent standing surface water.

19. STORMWATER SPECIFICATIONS

19.1. PART 1 – GENERAL

19.1.1. DESCRIPTION

19.1.1.1. Work included –Contractor shall furnish all labor, materials, services, permits, insurance, and equipment which is specified, shown or reasonably implied for the compliance with the following laws and regulations:

19.1.1.1.1. State Water Resources Control Board (SWRCB). "Order No. 2009-0009-DWQ, National Pollutant Discharge Elimination Systems (NPDES) General Permit No. CAS000002, Stormwater Discharge Associated with Construction Activity and Land Disturbance Activities" ("Permit"), Amended by 2010-0014-DQ and 2012-006-DWQ.

19.1.1.1.2. California Stormwater Quality Association (CASQA). "2015 CASQA Construction BMP Handbook – Construction", BMP Construction Information Fact Sheets.

19.1.1.1.3. Stormwater Pollution Prevention Plan. The Storm Water prevention plan will be incorporated into the bid documents for Site Demolition for the Valencia Grove 2 project by Addendum. The project site is designated as a Risk 1 site.

19.1.2. DEFINITIONS

19.1.2.1. ACTIVE AREA: Area where soil-disturbing work activities have occurred at least once within 15

days.

- 19.1.2.2. CONSTRUCTION PHASE: Phase that includes the (1) demolition work being done on this site, including abatement, demolition of buildings, accessories and removal of trees; (2) waste or debris removal; (3) hydroseeding or mulching for final stabilization, and (4) the suspension phase for suspension of work activities or a winter shutdown. The construction phase starts at the start of job site activities and ends at Contract acceptance.
- 19.1.2.3. INACTIVE AREA: Area where soil-disturbing work activities have not occurred within 15 days.
- 19.1.2.4. QUALIFYING RAIN EVENT: Storm that produces at least 0.5 inch of precipitation with a 48-hour or greater period between rain events.
- 19.1.2.5. RUN-ON: Water that originates off-site and flows onto the job site.
- 19.1.2.6. STORM EVENT: Storm that produces or is forecasted to produce at least 0.10 inch of precipitation within a 24-hour period.

19.1.3. SUBMITTALS

- 19.1.3.1. Training: For all employees and subcontractors who will be working at the job site, submit stormwater pollution training records as informational submittals. The records must include the training subjects and dates for the initial training, ongoing training, and tailgate meetings. Submit records for:
 - 19.1.3.1.1. Existing employees within 5 business days of Contract approval.
 - 19.1.3.1.2. New employees within 5 business days of receiving the training.
 - 19.1.3.1.3. Subcontractors' employees at least 5 business days before a subcontractor starts work.
- 19.1.3.2. Materials: Submit manufacturer's information on materials used for the erosion control devices (BMPs) within 5 business days of Contract approval.
- 19.1.3.3. Forms: Submit inspection report forms within 5 business days of Contract approval or use the current CASQA forms for monitoring reports.
- 19.1.3.4. Other reports and forms, including REAP, forecasts, inspection reports, etc. shall be submitted to Owner routinely throughout contract.
- 19.1.3.5. Name of Laboratory to be used for testing, which will be identified in the amended SWPPP plan.

19.2. PART 2 – MONITORING

19.2.1. MONITORING REQUIRED BY CONTRACTOR

- 19.2.1.1. Weather Forecasts – Check weather daily. Submit weather forecasts weekly. The WQM should daily consult the National Oceanographic and Atmospheric Administration (NOAA) for the weather forecasts. Submit forecasts to Owner weekly.
- 19.2.1.2. Rain Event Action Plan – Prepare and submit a rain event action plan (REAP) at least 48 hours before a forecasted storm event if the NOAA predicts a storm event with at least a 50 percent probability of precipitation within 72 hours. REAP includes:
 - Site Address;
 - Risk Level - 1;
 - Site Stormwater Manager Information including the name, company and 24-hour emergency telephone number;
 - Erosion and Sediment Control Provider information including the name, company and 24-hour emergency telephone number;
 - Stormwater Sampling Agent information including the name, company, and 24-hour emergency telephone number;
 - Activities associated with each construction phase;
 - Trades active on the construction site during each construction phase;
 - Trade contractor information; and
 - Recommended actions for each project phase.

Contractor shall have the REAP at the job site at least 24 hours before a forecasted storm event. For a project that requires a REAP, implement the plan, including crew mobilization, at least 24 hours before precipitation occurs.

Contractor shall retain a printed copy of each REAP at the job site as part of the SWPPP. Submit REAP to Owner least 24 hours before a forecasted storm event.

- 19.2.1.3. Weekly, Pre-, During and Post- Storm Inspections – The Owner’s QSP Inspector will complete inspections and submit reports routinely. Pre- Storm Inspections shall be done within 24 hours of forecasted qualifying event. During Storm Inspections shall be done daily during qualifying events. Post-Storm Inspections shall be completed within 24 hours of the end of a qualifying event. Inspections required include:
- Visual inspections of Best Management Practices (BMPs);
 - Visual monitoring of the site related to qualifying storm events;
 - Visual monitoring of the site for non-stormwater discharges;
 - Sampling and analysis of construction site runoff for pH and turbidity;
 - Sampling and analysis of construction site runoff for non-visible pollutants when applicable; and
 - Sampling and analysis of non-stormwater discharges when applicable.
- 19.2.1.4. Submit signed inspection forms to Owner within 48 hours of inspection.
- 19.2.1.5. Contractor is responsible for Daily Inspections – Check for:
- Comply with all aspects of the approved SWPPP Plan by the State Waterboard and erosion control measures per plans.
 - Oil, gas or other leaks from equipment
 - Leaks at connection to water source
 - Dust or litter on streets
 - Waste bins and stockpiles covered at end of each work shift.
- 19.2.1.6. Notification – Contractor to notify the Owner within 6 hours whenever:
- Discharges into receiving waters or drainage systems are causing or could cause water pollution.
 - A written notice or order for the project from the RWQCB or any other regulatory agency is received.

19.3. PART 3 – NUMERIC ACTION LEVEL

19.3.1. SAMPLING

- 19.3.1.1. See Sampling Plan of SWPPP.
- 19.3.1.2. Assign trained personnel to collect water quality samples. The personnel must comply with the equipment manufacturer’s instructions for the collection of samples, analytical methods, and equipment calibration.
- 19.3.1.3. Samples taken for laboratory analysis must comply with water quality sampling procedures and be analyzed by a State-certified laboratory under 40 CFR part 136, Guidelines Establishing Test Procedures for the Analysis of Pollutants.
- 19.3.1.4. For a risk level 2 or risk level 3 project, take samples for pH and turbidity from representative and accessible locations upstream and downstream of the discharge point. For multiple discharge points, obtain samples from a single upstream and a single downstream location.

19.3.2. EXCEEDANCE REPORTS

If a NAL is exceeded, notify the Owner and submit an exceedance report within 48 hours after the conclusion of a storm event. The report must include:

- 19.3.2.1. Field sampling results and inspections, including:
- Analytical methods, reporting units, and detection limits
 - Date, location, time of sampling, visual observations, and measurements
 - Quantity of precipitation from the storm event
- 19.3.2.2. Description of WPC practices and corrective actions taken to manage exceedance of the NAL

19.4. PART 4 – TRAINING

- 19.4.1. Employees must receive initial WPC training before starting work at the job site.
- 19.4.2. Contractors’ project managers, supervisory personnel, subcontractors, and employees involved in WPC work will:

- 19.4.2.1. Provide stormwater training in the following subjects:
 - 19.4.2.1.1. WPC rules and regulations
 - 19.4.2.1.2. Implementation and maintenance of:
 - Temporary soil stabilization
 - Temporary sediment control
 - Tracking control
 - Wind erosion control
 - Material pollution prevention and control
 - Waste management
 - Nonstormwater management
- 19.4.2.2. Conduct weekly training meetings covering:
 - 19.4.2.2.1. Deficiencies and corrective actions for WPC practices
 - 19.4.2.2.2. WPC practices required for work activities during the week
 - 19.4.2.2.3. Spill prevention and control
 - 19.4.2.2.4. Material delivery, storage, usage, and disposal
 - 19.4.2.2.5. Waste management
 - 19.4.2.2.6. Nonstormwater management procedures
- 19.4.3. Training for personnel who collect water quality samples must include:
 - 19.4.3.1. Review of the sampling and analysis plan.
 - 19.4.3.2. Health and safety review
 - 19.4.3.3. Sampling simulations
- 19.4.4. File copies of training and sign-in sheets in Appendix I of the SWPPP.

19.5. PART 5 – IMPLEMENTATION

- 19.5.1. Manage work activities to prevent or reduce the discharge of pollutants off site.
- 19.5.2. Contract to assign a Water Pollution Control Manager (WPC Manager) to implement SWPPP.
 - 19.5.2.1. Qualifications – WPC Manager must be a QSD or QSP.
 - 19.5.2.2. Responsibilities – The WPC Manager must:
 - 19.5.2.2.1. Be the primary contact responsible for WPC work
 - 19.5.2.2.2. Oversee WPC work, including:
 - Maintenance of WPC practices
 - Inspections of WPC practices identified in the SWPPP or WPCP
 - Inspections and reports for visual monitoring
 - Preparation and implementation of the REAPs.
 - Sampling and analysis and preparation and submittal of NAL exceedance reports
 - Submittal of notice of discharge forms
 - 19.5.2.2.3. Oversee and enforce hazardous waste management practices including spill prevention and control measures
 - 19.5.2.2.4. Have the authority to:
 - Mobilize crews to make immediate repairs to WPC practices
 - Stop construction activities damaging WPC practices or causing water pollution
 - 19.5.2.2.5. Ensure that all employees have current WPC training and provide training if collecting water quality samples is delegated
 - 19.5.2.2.6. Implement the authorized SWPPP or WPCP
 - 19.5.2.2.7. Revise the SWPPP or WPCP if required
 - 19.5.2.2.8. Be at the job site within 2 hours of being contacted
- 19.5.3. Rain Gauge
 - 19.5.3.1. Install – Owner’s QSP shall install 1 rain gauge on the project site.
 - 19.5.3.1.1. Locate the gauge in an open area away from obstructions such as trees or overhangs.
 - 19.5.3.1.2. Mount the gauge on a post at a height of 3 to 5 feet with the gauge extending several inches beyond the post.
 - 19.5.3.1.3. Make sure that the top of the gauge is level.

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- 19.5.3.1.4. Make sure the post is not in an area where rainwater can indirectly splash from sheds, equipment, trailers, etc.
- 19.5.3.2. Read and Record – Contractor will be responsible for the following activities:
 - 19.5.3.2.1. The rain gauge(s) shall be read daily during normal site scheduled hours. The rain gauge should be read at approximately the same time every day and the date and time of each reading recorded. Follow the rain gauge instructions to obtain accurate measurements.
 - 19.5.3.2.2. Log rain gauge readings on approved form or CASQA form. Submit form to Owner weekly.
 - 19.5.3.2.3. Once the rain gauge reading has been recorded, accumulated rain shall be emptied and the gauge reset, unless an automated recording rain gauge is used. If automated recording rain gauge is used, follow rain gauge instructions.
- 19.5.4. Sampling and Analysis Plan - See SWPPP Section for sampling locations and sampling plan. A copy of the SWPPP will be kept on-site.
 - 19.5.4.1. This project is not required to collect samples or conduct visual observations (inspections) under the following conditions:
 - 19.5.4.1.1. During dangerous weather conditions such as flooding and electrical storms.
 - 19.5.4.1.2. Outside of scheduled site business hours.
 - 19.5.4.2. The most effective way to avoid sampling and analysis requirements is to avoid the exposure of demolition materials to precipitation and stormwater run-off or run-on. A clean site is critical to limiting exposure.
- 19.5.5. Record Keeping – See SWPPP for requirements.

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20. ATTACHMENTS – Attached as separate documents (posted)

Attachment	Attachment Description
A	Instructions to Bidders for Contracts (HUD 5369)
B	Representations, Certifications, and Other Statements of Bidders (HUD 5369A)
C	General Conditions for Construction Contracts (HUD 5370)
D	Statement of Bidder's Qualifications
E	Designation of Subcontractors
F	Certification for Business Concerns Seeking Section 3 Preference
G	Certification of Bidder Regarding Equal Employment Opportunity
H	Corporate Certification
I	Non-Collusion Affidavit
J	Contractor's Certification of Compliance/Davis Bacon and Related Act Requirements
K	Davis Bacon Wage Determination
L	Supplementary Conditions of the Contractor for Construction (HUD 92554M)
M	Post Demolition EC Plan
N	Demolition Plan
O	Plans for Existing Site Utilities and Foundation
P	Construction Plans
Q	City of Redlands Demolition Requirements
R	City of Redlands – Authorized Agent Form/Owner
S	City of Redlands – Authorized Agent Form/Contractor
T	City of Redlands Site & Building Recycling Plan Form (CDRP)
U	City of Redlands Water Rate Schedule
V	Environmental Assessment
W	Tentative Tract Map
X	Recorded Tract Map
Y	City of Redlands Specific Plan
Z	City of Redlands Conditions of Approval
AA	Stormwater Pollution Prevention Plan
BB	Additional Scope Description and Site Boundaries
CC	Soil Report
DD	Sample of Contract
EE	Bid Bond Form
FF	Bid Proposal Form (to be completed, signed, and uploaded)

ATTACHMENT FF

PROPOSAL DUE BY:
10:00 a.m. Tuesday, May 18th, 2021

PC1215 BID PROPOSAL FORM

Housing Authority of the County of San Bernardino
Procurement & Contracts Department

PC1215 Valencia Grove Phase II Site Demolition & Erosion Control Services

Bids Due: Tuesday, May 18th at 10:00 a.m.

Proposal form must be filled, signed, and uploaded to PublicBids.

Vendor Name: _____ Contact & Title: _____

Mailing Address: _____

Phone: _____ Fax: _____ Email: _____

Contractor's License # _____ Expiration Date: _____

The undersigned hereby agrees to furnish all materials, labor, tools, equipment, apparatus, facilities, and transportation necessary to complete all work in strict conformity with the specifications, the Instructions and Conditions attached hereto, and to execute the contract to the satisfaction of the HACSB, at the following cost(s):

\$ _____ **GRAND TOTAL**
_____ **Dollars**

ADD ALTERNATE #1:

\$ _____ **TOTAL**
_____ **Dollars**

ADD ALTERNATE #2:

\$ _____ **TOTAL**
_____ **Dollars**

Note: If Proposal is greater than \$25,000 the Proposal shall also include a Bid Guarantee as defined in the Contract Documents. ORIGINAL BID BOND MUST BE DELIVERED TO OFFICE AND RECEIVED BY DUE DATE.

In submitting this Proposal it is understood that the right is reserved by HACSB to reject any and all proposals. If written notice of the acceptance of this Proposal is mailed, telegraphed, faxed or delivered to undersigned within thirty (30) days after the opening thereof, or at any time thereafter before this proposal is withdrawn, the undersigned agrees to a contract in the prescribed form and furnish any required insurance requirements within ten (10) days after the contract is presented to it for signature.

VENDOR'S AUTHORIZED SIGNATURE:

The undersigned hereby certifies that this Proposal is submitted in response to this solicitation.

SIGNED: _____ DATE: _____

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INSTRUCTIONS AND CONDITIONS

1. **Vendor Registration.** Vendor will need to register with HACSB (if awarded) through VENDORCafe and submit all required documentation, including ACH information for electronic payments.
2. **Verification.** Vendor should verify bids before submission, as they cannot be withdrawn or corrected after being submitted. Proposal must be signed by a responsible officer or employee of the Vendor's firm. Obligations assumed by such signatures must be fulfilled. This Proposal may, at HACSB's sole discretion, be rejected if is adjudged incomplete, illegible, or conditional. Vendor may submit alternate proposals or explanations on separate sheets. Such alternates will not be considered in determining the low bid, but may be used in negotiations after determination of the low bidder.
3. **Manufacturers.** (If applicable) In the Proposal, Vendor must state brand of manufacturer and model number on each item bid. If bidding manufacturer and model other than that specified, attach specifications sheets for alternate product(s). Use of a brand name as part of specification by HACSB is not intended to restrict competition, but should be considered a point of reference in terms of product quality and design.
4. **Request for Clarification.** Request for clarification or specifications, if any, shall be directed via email to cnunez@hacsb.com or at time of job walk. Interpretations requested which are not covered in the specifications will only be made in writing by HACSB.
5. **Required Proposal Documents.** This Proposal shall include and incorporate by reference all of the documents ("Contract Documents") referenced under Procurement and Contracting Requirement, section 1.3 Required Documents. Also found under www.hacsb.com/business, under forms.

6. INSURANCE REQUIREMENTS

Proof of Insurance, shall not be terminated or expire without thirty (30) days written notice, and are required to be maintained in force until completion of the contract. The Contractor shall require all subcontractors used in the performance of this contract to name HACSB as an additional insured. Following are the standard types and minimum amounts.

- General Liability:** \$2,000,000; per occurrence for bodily injury, personal injury and property damage liability; *HACSB Additional Insured as included on an attached endorsement.* For construction projects a CG20101185 will be required. Waiver of Subrogation needs to also be included under the GL.
- Commercial General Liability:** \$2,000,000; combined single limit bodily and property damage liability per occurrence; *HACSB additional named insured.*
- Comprehensive Automobile Liability:** \$1,000,000; combined single limit bodily and property damage liability per occurrence and aggregate; *HACSB Additional Insured.*
- Errors and Omissions Liability:** \$1,000,000; combined single limit bodily and property damage liability per occurrence and \$3,000,000 aggregate or,
- Professional Liability:** \$1,000,000; per occurrence and aggregate.
- Workers' Compensation:** \$1,000,000 per accident for Bodily Injury or Disease, including Waiver of Subrogation or,
- Self Insurance Program:** a State Approved program in an amount and form that meets all applicable requirements of the Labor Code of the State of California.
- Environmental Liability:** \$500,000; per occurrence and aggregate; *HACSB Additional Insured.*
- Owner's Liability:** 100% of insurable value of the work, Builder's Risk, Extended coverage for Vandalism and Malicious Mischief, if required; *HACSB additional named insured.*
- Fire Insurance with Extended Coverage:** 100% of insurable value of the work; Builder's Risk, Extended coverage including Vandalism and Malicious Mischief, if required; *HACSB Additional Insured.*

Under Description of Operations/Location on the certificate of liability insurance, please include; project number, project address, and trade description provided.

Failure to provide proof of insurance or failure to maintain insurance as required in this bid, or by law; are grounds for immediate termination of the contract. In addition, the awarded bidder should be liable for all re-procurement costs and any other remedies under law.

Indemnification and Insurance Requirements

- **Indemnification:** The Contractor agrees to indemnify, defend and hold harmless HACSB and its authorized officers, employees, agents and volunteers from any and all claims, actions, losses, damages, and/or liability arising out of this Contract from any cause whatsoever, including the acts, errors or omissions of any person and for any costs or expenses incurred by HACSB on account of any claim therefore, except where such indemnification is prohibited by law.
- **Additional Named Insured:** All policies, except for the Workers' Compensation, Errors and Omissions and Professional Liability policies, shall contain additional endorsements naming HACSB and its officers, employees, agents and volunteers as additional named insured with respect to liabilities arising out of the performance of services hereunder.
- **Waiver of Subrogation Rights:** The Contractor shall require the carriers of the above required coverages to waive all rights of subrogation against HACSB, its officers, employees, agents, volunteers, Contractors and subcontractors.
- **Policies Primary and Non-Contributory:** All policies required above are to be primary and non-contributory with any insurance or self-insurance programs carried or administered by HACSB.
- **Proof of Coverage:** The Contractor shall immediately furnish certificates of insurance to HACSB Procurement Department administering the Contract evidencing the insurance coverage, including the endorsements above required, prior to the commencement of performance of services hereunder, which certificates shall provide that such insurance shall not be terminated or expire without thirty (30) days written notice to the Department. Contractor shall maintain such insurance from the time Contractor commences

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performance of services hereunder until the completion of such services. Within sixty (60) days of the commencement of this Agreement, the Contractor shall furnish certified copies of the policies and all endorsements.

- **Insurance Review:** The above insurance requirements are subject to periodic review by HACSB. HACSB's Risk Manager is authorized, but not required, to reduce or waive any of the above insurance requirements whenever the Risk Manager determines that any of the above insurance is not available, is unreasonably priced, or is not needed to protect the interests of HACSB. In addition, if the Risk Manager determines that heretofore, unreasonably priced or unavailable types of insurance coverage or coverage limits become reasonably priced or available, the Risk Manager is authorized but not required, to change the above insurance requirements, to require additional types of insurance coverage or higher coverage limits, provided that any such change is reasonable in light of past claims against HACSB, inflation, or any other item reasonably related to HACSB's risk. Any such reduction or waiver for the entire term of the Agreement and any change requiring additional types of insurance coverage or higher coverage limits must be made by amendment to this Agreement. Contractor agrees to execute any such amendment within thirty (30) days of receipt.
7. **Delivery of Proposal.** Proposals received late or at any location of HACSB other than that indicated on the proposal will be deemed non-responsive and will not be considered.
 8. **Compliance with Contract Documents.** Vendor shall comply with all of the Contract Documents in connection with the performance of the work hereunder. In the event of any conflict between this Proposal and the Contract Documents, the Contract Documents shall control.
 9. **Award of Contract.** Bid opening will be officiated and attended by HACSB Contract Administrator at the time and place indicated the Request for Proposal. Identity of the successful bidder may not be determined at bid opening. HACSB reserves the right to obtain opinion of its counsel of legality and sufficiency of bids. The contract will be awarded, if at all, to the lowest responsible bidder within sixty (60) days of the final date of receiving bids and a purchase order will be issued.
 10. **HACSB's Discretion in Awarding Contract.** HACSB recognizes that price is only one of several criteria to be used in judging a product or service, and HACSB is not legally bound to accept the lowest bid. HACSB reserves the right, unless otherwise stated, to accept or reject any or all bids, or any part thereof, either separately or as a whole, or to waive any informality in a bid. HACSB reserves the right to reject, in its sole discretion, any or all bids, or to waive any informality in the bids, and to reject any items there on. HACSB may, at its sole discretion, cancel this Proposal or any part of this Proposal at any time prior to award.
 11. **Time of Performance.** All work and/or deliveries and set up shall be completed and the contract performed within the total number of calendar days stated in the Proposal. Any modification of this time caused by inclusion of any alternate in the contract shall be as stated in such alternate. Total number of calendar days: to be determined relative to each contract awarded.
 12. **Time is of the Essence.** Time of delivery is a part of the consideration and must be stated in definite terms, and must be adhered to.
 13. **Best Efforts.** Vendor shall perform its duties on premises approved by HACSB, during HACSB'S regular work days and normal work hours and warrants that it shall perform its services in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances. Vendor acknowledges that HACSB has the right to review the services performed by Vendor and may in its reasonable business discretion, reject such services in writing.
 14. **Costs.** Cost of transportation, handling, and/or inspection on deliveries which do not meet specifications shall be the responsibility of the Vendor.
 15. **Subcontractors.** A list of subcontractors will be submitted at the time of bid opening on the form entitled "Designation of Subcontractors" and as required by State Law. The subcontractor shall have demonstrated to HACSB's satisfaction previous experience in each additional division or classification he is listed under other than its primary contracting business. If a subcontractor is licensed and qualified to do more than one division or classification of work as defined by the specifications, it shall be listed under each of these additional divisions or classifications. All contractors shall be listed if their portion of the work is one-half (½) of one percent (1%) or more of the total project bid amount. Within 72 hours after bid opening, the apparent low bidder will be required to submit an additional list which will include all of the following information for the general contractor and each subcontractor listed in the Proposal: (a) complete name (as it appears on State Contractor's License), address and telephone number for each; (b) trade for each; (c) State Contractor's License Number and license classification for each; and (d) expiration date of State Contractor's License (if license is expired or inactive, proof of renewal must be submitted).
 16. **Samples.** Samples of items, when required, shall be furnished at no charge to HACSB; and if not destroyed by tests, will upon request be returned at Vendor's expense.
 17. **Superintendence by Vendor.** Vendor certifies that it shall give its personal superintendence to the work or have a competent superintendent, satisfactory to HACSB and/or the Architect, if any, on the project at all times during progress with full authority to act for Vendor.
 18. **Removal of Debris, Cleaning.** Vendor shall, daily or as directed during the progress of the work on the project, remove and properly dispose of the resultant trash, dirt and debris, and keep the premises reasonably clear.
 19. **Force Majeure.** Neither party shall be held liable for failure or delay of fulfillment if hindered or prevented by fire, strikes, or Acts of God. (Force Majeure)
 20. **Warranty/Guarantee.** Vendor warrants and guarantees that the goods supplied under this Request for Bid and any purchase order resulting from award of same (including all descriptions, specifications and drawings made a part hereof), and such goods will be merchantable, fit for their intended purposes, free from all defects in materials and workmanship and to the extent not manufactured pursuant to detailed designs furnished by HACSB, free from defects in design. HACSB's approval of designs or specifications furnished by Vendor shall not relieve Vendor of its obligations under this warranty. All warranties, including special warranties specified elsewhere herein, shall inure to HACSB, its successors, assigns, customer agencies and users of the goods or services.

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21. **Stipulation of Lien.** Vendor certifies that all work executed under this Proposal will be performed in accordance with terms of any contract awarded to Vendor by this process and there will be no claims of laborers or mechanics for unpaid wages arising out of the performance of said contract. In consideration of the payment under the terms of the contract, Vendor hereby does release HACSB from any and all claims arising from any contract awarded by this process. Vendor shall prepare and submit to HACSB, a written Stipulation of Lien. The Stipulation of Lien shall be recorded in the County Recorder's Office of San Bernardino County, California.
22. **Safety and Accident Prevention:** Vendor certifies that it shall exercise proper precaution at all times for the protection of persons and property. The safety provisions of applicable law, building and construction codes shall be observed, and Contractor shall take or cause to be taken such additional safety and health measures as HACSB may determine to be reasonably necessary. Machinery, equipment and all hazards shall be guarded in accordance with the safety provisions of the State of California Construction Safety Orders (CCR Title 8, Chapter 4, Subchapter 4, as amended) and the "Manual of Accident Prevention in Construction", published by the Associated General Contractors of America, to the extent that such provisions are not in contravention of applicable laws.
23. **Assignment.** Assignment of the agreement by Vendor to other suppliers/contractors must be approved by the HACSB Inspector.
24. **Modification.** In addition to the provisions regarding modification specified in the Contract Documents, deviations from the specifications and addenda may only be made at the request of HACSB. Vendor shall not use any specification in lieu of those contained in the specifications, without written consent of HACSB. HACSB shall expect a debit or credit during the project for any deviations from specifications and addenda.
25. **Indemnity; Hold Harmless.** Vendor agrees to defend, save, indemnify and hold harmless HACSB and all its officers, employees, and agents, against any and all liabilities, claims, judgments, or demands, including demands arising from injuries or death of persons (Vendor's employees included) and damage to property, arising directly or indirectly out of the performance of the work, the obligations herein undertaken or out of the operations conducted by Vendor including liability of any nature or kind on account of use of any copyright, or uncopyrighted composition, secret process, patented or unpatented invention, article, or appliance furnished or used under this Proposal, save and except claims or litigation to the extent arising through the active negligence or willful misconduct of HACSB. Contractor shall reimburse HACSB for any expenditures, including reasonable attorneys' fees, HACSB may incur arising out of any such claim or litigation, and, if requested by HACSB, Contractor shall defend any such suits at the sole cost and expense of Contractor with counsel selected by HACSB.
26. **Lead Paint Prohibition.** Any Vendor awarded a contract for construction or rehabilitation shall comply with 24 CFR Part 35 prohibiting use of lead-based paint. EPA 2008 Lead Rule Firm Certification, Employee Certification required for work in units built prior to 1978.
27. **Equal Employment Opportunity.** Vendor agrees to comply with Executive Orders 11246, 11375, 11625, 12138, 12432, 12250, Title VII of the Civil Rights Act of 1964, the California Fair Employment Practice Act, Equal Opportunity, San Bernardino County Emerging Small Business Enterprise program, and other applicable Federal, State, and County laws, regulations, and policies relating to equal employment and contracting opportunities, including laws and regulations hereafter enacted. The articles covered by this bid must conform with safety orders of OSHA, CALOSHA, and/or NIOSHA, and OSH- POD.
28. **National Labor Relations Board Certification.** Vendor swears under penalty of perjury that no more than one final, unappealable finding of contempt of court by a federal court has been issued against Vendor within the immediately preceding two-year period because of Vendor's failure to comply with an order of the National Labor Relations Board. This provision is required by, and shall be construed in accordance with, Public Contract Code Section 10296.
29. **California Prevailing Wage (If Price Is Less Than \$2,000).** In the event the Proposal is less than \$2,000, Vendor agrees to comply with all prevailing rate requirements of the California Labor Code. HACSB shall have the right to audit and inspect Vendor's books and records, and interview Vendor's employees, contractors and subcontractors, all according to the same provisions set forth in Section 26 above.
30. **Compliance with Davis-Bacon Act.** Unless otherwise indicated in the quotations, Vendors of HACSB are required, pursuant to 24 CFR 85.36(h)(5), to pay Davis-Bacon prevailing wage rates for all "construction contracts and all related subcontracts in excess of \$2000," which means, for such jobs, the wage rates paid must be equal to or exceed the listed applicable Davis- Bacon wage rate (it also means that the Vendor may be subject to completing certain reports and to audits by the HACSB and HUD staff). <http://www.wdol.gov/>.
31. **Labor Laws.** Vendor agrees to pay the required prevailing wages in accordance with the State Labor Code. Compliance with the prevailing rates of wages and apprenticeship employment standards established by the State Department of Industrial Relations. Contractor agrees to register with the Department of Industrial Relations pursuant to Labor Code Section 1725.5. Contractor and all of Contractor's subcontractors, if any, agrees to pay each employee engaged in all applicable trades or occupation not less than the prevailing hourly wage rate for work of a similar character in the locality in which the public work is performed, and not less than the general prevailing rate of per diem wages for holiday and overtime work, in accordance with the provisions of Section 1770 of California Labor Code.
32. **Worker's Compensation Insurance.** Vendors making delivery of goods or providing services on HACSB premises shall carry liability insurance and Worker's Compensation coverage in accordance with the Housing Authority's Standard Practice requirements.
33. **No Conflicts.** Vendor certifies that no HACSB employee, whose position in the HACSB service enables them to influence any award of your offer or any competing offer, shall have any direct or indirect financial interest in any transaction resulting from this Request for Bid.
34. **Covenant Against Gratuities.** Vendor shall not offer, either directly or through an intermediary, any improper consideration such as, but not limited to; cash, discounts, service, the provision of travel or entertainment, or any items of value to any officer, employee or agent of the HACSB in an attempt to secure favorable treatment regarding the award of this bid. Vendor shall immediately report any attempt by a Housing Authority officer, employee or agent to solicit, either directly or through an intermediary, improper consideration from Vendor. The report shall be made to the supervisor or manager charged with the supervision of the employee or to the HACSB.
35. **Collusion.** Vendor, by submitting a proposal, hereby certifies that no officer, agent, or employee of the HACSB has a pecuniary interest in this Proposal; that the Proposal is made in good faith without fraud, collusion, or connection of any kind with any other vendor; and that the Vendor is competing solely in its own behalf without connection with, or obligation to any undisclosed person or company.
36. **Drug Free Workplace Certification.** Vendor certifies it is in compliance with the Drug-Free Workplace Act of 1990 and has actions in place in accordance with Government Code Section 8355.

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37. **This Request for Proposal is not an order. This request is a solicitation only, and is not intended or to be construed as an offer to enter into any contract or other agreement. No acquisition can be made from this Proposal without a purchase order issued by the HACSB.**
38. **Nondisclosure of Proposal.** There will be no public opening or reading of this Proposal.
39. **Valid Price.** Vendor certifies that the prices quoted in this Proposal do not exceed existing selling prices to other customers for the same or substantially similar items or services for comparable quantities under similar terms and conditions.
40. **Licenses.** Vendor shall ensure that it has all necessary licenses and permits required by the laws of Federal, State, County and municipal laws, ordinances, rules and regulations. Vendor shall maintain these licenses and permits in effect for the duration of this project. Vendor will notify HACSB immediately of loss or suspension of any such licenses and permits. Failure to maintain a required license or permit may result in immediate termination of this contract.
41. **Default by Vendor.** In case of default by Vendor, HACSB may procure the product(s) or service from other sources and may deduct the unpaid balance due Vendor, or may collect against the bond of surety, or may bill Vendor for excess costs so paid. Prices paid by the HACSB shall be considered the prevailing market prices paid at the time such purchase is made.
42. **Disputes.** In the event a dispute arises concerning the bid process or award of the bid, the party wishing resolution of the dispute shall submit a request in writing to the Procurement & Contracts Manager. Vendor may appeal the recommended award or denial of award, providing the following stipulations are met:
 - a. Appeal must be in writing.
 - b. Must be submitted within ten (10) calendar days of the bid due date.

An appeal of a denial of award can only be brought on the following grounds:

- a. Failure of HACSB to follow the selection procedures and adhere to requirements specified in the Request for Bid or any addenda or amendments.
- b. There has been a violation of conflict of interest as provided by California Government Code Section 87100 et seq.
- c. A violation of State or Federal law.

Appeals will not be accepted for any other reasons than those stated above. All appeals must be sent to:

Angie Lardapide, Procurement & Contracts Supervisor
Housing Authority of the County of San Bernardino
715 E. Brier Drive
San Bernardino, CA 92408