

ADDENDA

6/29/26

F.T

GENERAL

1.01 The following sets forth the format for issued Addenda.

ADDENDUM NO. 02, dated June 26, 2026.

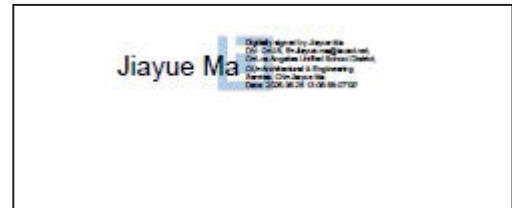
W/Plans

RE: OUTDOOR CLASSROOM AND CAMPUS UPGRADE
DSA A# 03-125367 DSA File #19-63
 OWNER PROJECT NO.: 233171
 AT
 SYLVAN PARK EARLY EDUCATION CENTER
 located at 15011 Delano Street., Van Nuys, CA 91411

FROM: OWNER: LOS ANGELES UNIFIED SCHOOL DISTRICT
 FACILITIES CONSTRUCTION CONTRACTS
 333 S. Beaudry Ave., 28th Fl.
 Los Angeles, CA 90017

Architect/Engineer Stamp & Signature

TO: ALL PROSPECTIVE BIDDERS:



This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated May, 2026, as noted below. Acknowledge receipt of the Addendum in the space provided on Document 00 4100 - Bid and Acceptance Form. Failure to do so may result in the bid being deemed non-responsive.

The Addendum consists of 68 pages, and 6 drawing. The attached drawings include Sheet Nos. LS-001, LS-002, LS-502, LS-504, LS-506, and LS-507 with revised date of 06/24/2026.

“The DSA review of this addendum is not expected to result in a material change to the contract”

Maria Lachica

OAR Name

Digitally signed by Maria Lachica
 DN: cn=Maria Lachica, o=LAUSD, ou=PEX, email=maria.lachica@lausd.net, c=US
 Date: 2026.06.26 13:08:00

Signature

06/26/2026

Date

Steve Boehm

Regional Director Name

Digitally signed by Steve Boehm Deputy Director
 DN: cn=Steve Boehm Deputy Director, o, ou=PEX, email=steve.boehm@lausd.net, c=US
 Date: 2026.06.26 13:27:48 -07'00'

Signature

Date

A. CHANGES TO BIDDING DOCUMENTS:

Remove and Replace:

- Spec 00 0110 Table of Contents – 6 pages.

ADDENDUM NO. 2

OUTDOOR CLASSROOM AND CAMPUS UPGRADE
 SYLVAN PARK EARLY EDUCATION CENTER
 BEST VALUE

REVISED 7/11/2018
 ADDENDA
 00 9113-1

Bid #2610077-Add-2P

Remove and Replace:

- **Spec 00 0116 Invitation to Bid Document – 4 pages.**
Bid Due date now to read: before 2:00 pm on Wednesday, July 8, 2026.

Remove and Replace

- **Spec 00 4100 Bid and Acceptance – 5 pages.**
Bid Due date now to read: before 2:00 pm on Wednesday, July 8, 2026.

Remove and Replace

- **Spec 00 7300 Supplementary Conditions – 6 pages.**

B. CHANGES TO SPECIFICATIONS:

1. Replace Specification Section 01 1100 Summary of Work (10 pages) in its entirety with Specification Section 01 1100 Summary of Work (10 pages)
2. Delete Specification Section 27 4113 Classroom Sound Enhancement System and Assistive Listening Systems (14 pages) and replace with Specification Section 27 4113 Portable Assistive Listening Systems (12 pages)
3. Delete Section 32 1828 Decomposed Granite Surfacing for Outdoor Learning Environments (dated 02/09/2024 (4 pages) and replace with Specification Section 32 1829 Decomposed Granite Surfacing for Outdoor Learning Environments (19 pages)

C. CHANGES TO DRAWINGS:

1. Replace Sheet LS-001 HARDSCAPE SCHEDULE AND NOTES (Addendum 1 dated 06.02.2026) in its entirety with Sheet LS-001 HARDSCAPE SCHEDULE AND NOTES (Addendum 2 dated 06.24.2026).
2. Replace Sheet LS-002 FURNISHING AND SIGN SCHEDULE (Addendum 1 dated 06.02.2026) in its entirety with Sheet LS-002 FURNISHING AND SIGN SCHEDULE (Addendum 2 dated 06.24.2026).
3. Replace Sheet LS-502 HARDSCAPE DETAILS (Addendum 1 dated 06.02.2026) in its entirety with Sheet LS-502 HARDSCAPE DETAILS (Addendum 2 dated 06.24.2026).
4. Replace Sheet LS-504 HARDSCAPE DETAILS (Addendum 1 dated 06.02.2026) in its entirety with Sheet LS-504 HARDSCAPE DETAILS (Addendum 2 dated 06.24.2026).
5. Replace Sheet LS-506 HARDSCAPE DETAILS (Addendum 1 dated 06.02.2026) in its entirety with Sheet LS-506 HARDSCAPE DETAILS (Addendum 2 dated 06.24.2026).
6. Replace Sheet LS-507 HARDSCAPE DETAILS (Addendum 1 dated 06.02.2026) in its entirety with Sheet LS-507 HARDSCAPE DETAILS (Addendum 2 dated 06.24.2026).

D. OTHER CHANGES AS SET FORTH: N/A

- E.** Clarification or any other notice of a change in the Bidding Documents will be issued only by the OWNER office of Facilities Construction Contracts and only in the form of a written Addendum, transmitted by fax or e-mail to all who are known by the issuing office to have received a complete set of Bidding Documents. Any other purported Addenda are void and unenforceable.

#	Question	Response
1	Please refer to keynote #1 on Sheet M-201. Identify the location of the keynote on the demo floor plan.	Keynote #1 is not applicable - Existing ductwork to not be demolished. Note to be removed on sheet M-201 Mechanical Demolition Floor Plan.

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00 9113-2

#	Question	Response
2	Sheet M-701 unit schedule for wall mounted heat pumps, Note 2 indicates to provide "Phase Monitor/Protection." Since these wall hung units are single phase and they cannot be out of Phase, please confirm that this is not required.	Phase Monitor/ Protection is not required per Electrical Engineer. Confirmed unit is single phase and not three phases for the phase monitor protection.
3	Sheet M701 unit schedule for wall mounted heat pumps, Note 8 indicates an economizer. Per LAUSD, economizers are not required for wall hung units. Please advise	Economizer to be installed per Note #8 on Wall Mounted Heat Pump Unit Schedule for the BARD unit at modular classrooms. Per T24 section 140.4(e) - economizer modes are required for AHUs with cooling capacity of over 33,000 BTU. Therefore a 5 Ton unit requires an economizer.
4	Sheet M-701 unit schedule for wall mounted heat pumps, Note 4 indicates to provide an acoustical plenum WAP551. Since this will require the framing to be modified, on other LAUSD project, this plenum is being deleted. Please advise.	Supply Air Acoustical Plenum WAPS51 is requires as stated on Note#4 on Wall Mounted Heat Pump Unit Schedule.
5	Per Finish Schedule Items P-10A, P-10B, and P-10C, the plans appear to require sole-sourced contractor utilizing proprietary method for the animal footprints. Please advise whether stamped animal footprints would be acceptable in lieu of the proposed method. Additionally, please confirm whether Paint Blast has an active DIR number and is ok to perform work in accordance with LAUSD's PLA agreements.	The stamped animal footprints are not acceptable in this project. It is the General Contractor's responsibility to confirm and verify if a subcontractor is currently DIR registered.
6	Irrigation legend on LI-001 shows gate valve shall be NIBCO T-111 for 2-1/2" and smaller. However, spec 32 8413/2.02/D shows gate valve 2" and smaller shall be NIBCO T-113. Please clarify.	Use Specifications T-133.
7	Irrigation legend on LI-001 shows gate valve installs in a 10" round valve box. However, detail E/LI-501 calls out rectangular valve box. Please clarify.	Use rectangular valve box. Lid to be heat branded with "GV".
8	Irrigation legend on LI-001 shows the sleeve size to be two times the pipe diameter or wire bundle. However, spec 32 8413/3.02/D requires two pipe sizes larger than the pressure piping. Please clarify.	Use 2 times the diameter of the pipe size or wire bundle.
9	Irrigation legend on L-001 & irrigation plans LI-101, LI-102 shows symbol of hose bib. However, spec 32 8413/3.06 shows hose bib is prohibited. Please clarify.	The hose bibb installation was requested by the district, and that an exception was granted in this case because the vegetable planters require access to water.
10	Irrigation legend on L-001 shows model HQ33D-RC for quick coupler, which is 3/4" size. However, spec 32 8413/2.02/D.3 requires 1" quick coupler valves. Please clarify.	Use Model HQ-44-RC for 1"
11	Spec 32 8413/3.02 shows excavating at 24 inches depth for pressure mainline. However, detail B/LI-501 shows 18". Please clarify.	Use depth of 18" for pressure mainline.
12	Spec 32 8413/3.02/A shows below grade piping shall be installed on a firm sand bed for its entire length. Please confirm if we need sand for lateral line. If it is needed, please provide the depth for sand.	No need for sand under laterals.

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00 9113-3

#	Question	Response
13	Legend on LS-002 shows the diameter of customer timber sandbox is 114"L x 60"W x 11"H. However, detail 7/LS-507 shows 8'L x 4'W. Please clarify	Dimensions for the custom timber sandbox shall be 117" L x 59" W x 11" H. These dimensions is shown in the Addendum 2 plans.
14	Legend on LS-001 shows EWF shall be from USA Rock. However, legend #1 on detail 4/LS-502 shows Pioneer Wholesale Supply. Please clarify	The vendors listed are suggested as potential suppliers, however, the contractor is free to provide EWF from alternate suppliers so long as the product meets the district's standard for quality and performance. Submit for AOR review during the submittal process.
15	Spec 32 0190.33/2.1 shows plastic mesh construction fence, orange color for tree protection. However, legend #1 on detail 1/LD-101 shows chain link fence. Please clarify	Orange plastic mesh construction fence may be used per the specifications.
16	Both spec sections 01 5639 and 32 0190.33 are for tree protection. Please clarify which one shall be used for bidding purpose.	Use 32 0190.33 for bidding purposes.
17	Planting legend on LP-001 shows sod is Santa Ana Bermuda. However, spec 32 9113/2.01 shows multi materials for sod (Hybrid Bermuda or Tall Fescue). Please clarify	Use Santa Ana Bermuda for sod.
18	Please provide specs for the granitecrete 2/LS-502 the 31 1828 is for organic lock decomposed granite stabilized DG	Use GraniteCrete specifications Specification 32 1828 Decomposed Granite Surfacing For Outdoor Learning Environments.
19	Please confirm on 32 1415 Manufacturer A. has been removed or a typo? Please confirm certification requirement for general contractor to self perform pavers work.	Manufacturer: Hydropaver or Equal Confirming certification requirement: installer to hold certificate from the Interlocking Concrete Pavement Institute Concrete Paver Installer Certification program.
20	Please confirm no EMS requirement for the controls on the HVAC units	The HVAC do not tie-in to an overall building energy management system. There is a standalone HCAV controls system based on Carrier controls, per the mechanical drawings. See Sheet M-601.
21	Please confirm the owner trailer per 01 5000 will be located on Sylvan Park ES parking lot corner of Delano and Noble Ave.	Owner trailer will be located together with the contractor's staging area at the school's parking lot.
22	Per 01 5000 to provide RS Means Building and renovation schools. RSMeans data doesn't have renovation school please confirm this is 2026 Building Construction costs book	Yes. Provide 2026 Building Construction Costs Book in lieu of RS Means Building and Renovation Schools
23.	Please provide specs, manufacturer or more information for P-12 Cookie Pavers	Manufacturer: Street Tree Revival (949) 771-9663, or equal. Detail 5/LS-502 and Finish Schedule to be updated in Addendum 2. Wood rounds to be 12-24" D with 3-6" D rounds to fill gaps. 6" height, rough sanded with 40-grit and sealed on both sides with Penofin Verde by Performance Coating, Inc. This product is approved for use by contractors only at unoccupied sites or non-school hours. Follow manufacturer's recommendations

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		(Continued) for product storage and use. CONTRACTOR shall schedule and execute all scope associated with the application of the Street Tree Revival, or equal product, exclusively during hours when no staff, faculty, or students are present on the Project site. The Contractor shall strictly comply with all applicable local, state, and federal regulations throughout the duration of the work, including manufacturer's recommendation for application, storage and use.
#	Question	Response
24	Please provide specs or more information on the concrete imprints. The concrete is to be topcast #3 finish and the imprints stencil to be heavy sand blast and then painted?	Confirming that concrete is to be topcast #3. Stencil for sand blasting can be procured from any sign company that produces laser cut stencils, graphic to be provided by landscape architect upon request. Imprint will be sand blasted with a heavy finish, max 1/4" deep and then painted. Contractor to provide mockup for designer approval before proceeding with the work. Contractor to be licensed with C-61 license for sand blasting. CONTRACTOR shall schedule and execute all concrete abrasive blasting operations exclusively during hours when no staff, faculty, or students are present on the Project site. The Contractor shall strictly comply with all applicable local, state, and federal regulations throughout the duration of the work, including but not limited to: Cal/OSHA, California Air Resources Board, and Municipal/City Codes. The Contractor must perform all concrete abrasive blasting utilizing an enclosed, negative-pressure dust extraction system. This containment method must successfully prevent the migration of dust and debris outside the designated work area.
25	1. Classroom Sound Enhancement Systems: (a) Confirm whether Classroom Sound Enhancement Systems are required for this project. (b) If required, identify all classrooms and instructional spaces requiring such systems. (c) Provide the basis of design and applicable performance criteria. 2. Speaker Requirements: (a) Confirm the required quantity and locations of loudspeakers for each classroom. (b) Provide ceiling plans, layouts, or design criteria indicating speaker coverage requirements. 3. AV Display Coordination: (a) Confirm whether the Classroom Sound Enhancement Systems are intended to integrate with projection systems, interactive whiteboards, flat panel displays, or other instructional technologies. (b) Clarify required interfaces and connectivity between AV and audio enhancement	Reference Sheet A-101 for a Portable Assistive Listening System Requirements in the Assembly Area (1) For receiver counts based on total occupants, see assistive listening device calculation on Sheet A-101. (2) Provide new assistive listening portable speaker system by JBL - Model #E0N208P (3) Reference Specification Section 27 4113 PORTABLE ASSISTIVE LISTENING SYSTEMS for additional requirements.

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	(Continued) systems. 4. Owner-Furnished Contractor-Installed (OFCI) Equipment: (a) Please provide a complete list of all OFCI equipment associated with classroom technology systems. (b) Clarify responsibility for furnishing, installation, mounting, cabling, programming, testing, and commissioning.	
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END OF ADDENDUM NO. 2

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SECTION 00 1116

INVITATION TO BID

Subject to all conditions prescribed by OWNER, sealed bids for a lump sum, fixed price contract are invited for the following Work:

SYLVAN PARK EARLY EDUCATION CENTER

COLIN# 10374546 / DSA#03-125367

LOS ANGELES UNIFIED SCHOOL DISTRICT AS OWNER

EDUCATIONAL SERVICES CENTER – LOCAL DISTRICT NORTH

DESCRIPTION OF WORK: Outdoor Classroom and Campus Upgrade (BV)(PSA)

OWNER is committed to sustainable or “high performance” design and construction in all of its schools because high performance schools enhance student and teacher performance, reduce operating costs, and protect the environment. To implement this commitment, the Owner endorses the high performance school strategies defined in the Collaborative for High Performance School (CHPS) Best Practices Manuals (available at www.chps.net), and requires that all qualified projects achieve, at a minimum, a “CHPS School” rating. The Owner shall be responsible for monitoring compliance with the CHPS criteria necessary to achieve this objective.

The Los Angeles Unified School District’s electronic bid submittal process has changed. Bidders are now required to utilize the Ariba Business (Supplier) Network to submit a bid package electronically.

Bidders will need their company’s user ID and password to access the Ariba Business (Supplier) Network at <https://LAUSD.sourcing3.ariba.com/ad/webjumper?itemID=NYm0APjDCfIX5K8&awchars=et=UTF-8>. If an existing LAUSD vendor is unaware of the user ID and password associated with their Ariba Business (Supplier) Network account, they should contact the Vendor Services Unit for assistance via email at psg-vs@lausd.net or via telephone at (562) 654-9404.

A bidder will need to access the Ariba Business (Supplier) Network and submit the bid package for the transaction number identified below by the Bid Due Date. Virtual drop-in sessions have been scheduled for Tuesdays and Thursdays, 11 am to 12 pm, to provide instructions on accessing and responding to LAUSD solicitations in the Ariba Business (Supplier) Network. You should join a session via the following link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_ZmI4MjU3ZTYtZmYxNC00MjZhLTk0MGQtNDIjNTg3YmNlMzQ4%40thread.v2/0?context=%7b%22Tid%22%3a%22042a40a1-b128-4ac4-8648-016ffa121487%22%2c%22Oid%22%3a%22ec989ceb-0c29-4836-86b7-03f004059bc2%22%7d. A job aid on accessing and responding to LAUSD solicitations in the system is attached to Section 00 2113 - Instructions to Bidders. If unsuccessful in uploading the file, a bidder should e-mail fat3559@lausd.net at least two (2) days prior to the Bid Due Date for assistance.

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INVITATION TO BID
00 1116-1

The vendor is solely responsible for ensuring timely submission of its electronic solicitation response. A vendor should allow itself adequate time for bid submittal and possible technical support as bids will not be accepted after the deadline.

The vendor must complete its bid entry and upload all required documents before the end of the bid submission period. The District is not responsible for contractor system problems/errors.

To ensure that your bid is submitted properly and on time, please submit well before the Bid Due Date/Time, at least two (2) days in advance as suggested above.

The applicable reference number for this project in the Ariba Business (Supplier) Network is Ariba Sourcing project #Doc2221376577.

Bidding Documents will be available to bidder after the first date of advertisement and can be obtained at:

CRISP IMAGING
Los Angeles Office (Downtown)
1829 S. Main Street
Los Angeles, CA 90015
Business Hours:
Monday through Friday
7:00 a.m. to 6:00 p.m.
Telephone: (213) 741-9560

Additional office locations are listed at www.crispimg.com.

Bidders may also view and order Bidding Documents through the website by clicking on the “Planroom” button, click “Public Jobs”.

Bid will only be accepted from a pre-qualified and qualified bidder pursuant to the OWNER prequalification process and RFQ requirements. To apply for prequalification or renewal, contractors should now go to lausd.qualitybidders.com to submit the prequalification questionnaires.

Bidders should note that the OWNER’s prequalification requirements include mechanical, electrical, and plumbing contractors (i.e., contractors licensed pursuant to Sections 7056–7059 of the Business and Professions Code, specifically holding A, B, C-4, C-7, C-10, C-16, C-20, C-34, C-36, C-38, C-42, C-43, or C-46 licenses pursuant to regulations of the Contractors’ State License Board) that contract directly with a bidder to perform any such component work on the Project (“MEP subcontractors”). Bidders that intend to contract with any MEP subcontractors to perform any such component work on the Project shall only select MEP subcontractors that have been prequalified by the OWNER at least five (5) business days before the date fixed for the public opening of bids. Non-MEP subcontractors do not need to be prequalified to perform non-MEP component work on the Project. Bidders and MEP subcontractors shall not be eligible to bid or perform work on the Project if they (a) have not submitted completed prequalification questionnaires and financial statements to the OWNER at least ten (10) business days before the date fixed for the public opening of bids, and (b) have not been prequalified by the OWNER at least five (5) business days before the date fixed for the public opening of bids. The OWNER’s lists of prequalified contractors can be found online at <https://procurement.lausd.org/apps/pages/Prequalification> under “List of Prequalified Contractors.” The lists are updated on an ongoing basis. If an MEP subcontractor does not appear on the list, bidder should verify with the subcontractor to determine if subcontractor has received a notice from OWNER that confirms its prequalification by the above deadline. Unless prohibited by the OWNER, bidders licensed pursuant to Section 7057 of the Business and Professions Code, specifically holding general building contractor B licenses pursuant to regulations of the Contractors’ State License Board, may self-perform any work on the Project to the extent permitted by law. Bids that fail to adhere to these requirements will be deemed non-responsive by the OWNER.

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Bidder should note the disclaimer in Section 00 2113, 1.09 E, concerning the use of District prequalified subcontractors.

Bidder is advised that no contractor or subcontractor may be listed on a bid proposal for a public works project (submitted on or after March 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].

No contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations (DIR) and the Los Angeles Unified School District's DIR-approved Labor Compliance Program.

BID DUE DATE: Bid will only be accepted before **2:00 PM, WEDNESDAY, JULY 8, 2026.**

Deadline for MEP subcontractors to be prequalified by the OWNER: **JUNE 30, 2026.** Bidder must only list MEP subcontractors that are prequalified by the OWNER as of this date. OWNER will attempt to ensure that all prequalified MEP subcontractors are placed on the OWNER's List of Prequalified MEP Subcontractors in a timely manner. However, if an MEP subcontractor does not appear on the list, bidder should verify with the subcontractor to determine if subcontractor has received a notice from OWNER that confirms its prequalification by the deadline. Bids that fail to adhere to this requirement will be deemed non-responsive by the OWNER.

Bidder is responsible for the cost of bid package. Cost for bid package is non-refundable. Bid package is non-returnable.

Bid security in the amount of ten (10) percent of the lump sum base bid, excluding bid items, as set forth in Section 01 2300, shall accompany each bid. Surety issuing the bid bond shall meet the requirements set forth in Article 5.17 of the General Conditions. A mandatory pre-bid meeting and pre-bid job walk will be held in accordance with Section 00 2513. The bidder is responsible for ensuring that they have complete Bidding Documents including all Addenda provided by the OWNER, prior to the bid due date.

Pursuant to Labor Code Section 1771.7, this Project will be subject to the Owner approved Labor Compliance Program (Final Approval, December 7, 1996). For questions or assistance concerning the Labor Compliance Program, contact the Labor Compliance Department at (213) 241-4665 or lcp@lausd.net, or go to <https://facilities.lausd.org/apps/pages/lcp> on the internet. Any Contractor to whom a contract for the Work is awarded by the Owner shall comply with the provisions of the California Labor Code, as well as the Owner Labor Compliance Program for the Project, including, without limitation, the obligation to pay the general prevailing rates of wages in the locality in which the Work is to be performed in accordance with, without limitation, Sections 1771, 1773.1, 1774, 1775 and 1776 of the California Labor Code and the obligation to comply with Section 1777.5 of the California Labor Code governing employment of apprentices. Copies of the prevailing rates of per diem wages are available to any interested party at www.laschools.org/new-site/labor-compliance/dir or www.dir.ca.gov/oprl.

The successful bidder will be required to pay prevailing wages in accordance with law and is required to have the following State of California Contractor license current at the time of bid submission:

In accordance with the provisions of Public Contract Code section 3300, OWNER has determined that the CONTRACTOR performing this project must hold the following license as the prime contractor: **B – General Building Contractor**. A prime CONTRACTOR self-performing any of the following specialty trades must also hold the required specialty license:

N/A

To perform abatement and demolition work, including removal of roofing materials, bidders must select a subcontractor from the Owner's List of Asbestos Abatement Subcontractors as per Section 00 3126. The only license required to perform abatement and demolition work, including removal of roofing materials, is C-22. A dual license of C-22 and C-39 is not a requirement.

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Bidder is required to participate in an OWNER Controlled Insurance Program (OCIP) as set forth in Section 00 7316 and Article 5 of the General Conditions.

Bidder is subject to the Small Business Enterprises participation requirements as set forth in Section 00 7339.

It is the responsibility of the Prime contractor to ensure that its subcontractors/suppliers register to become LAUSD certified prior to award. Please have all subcontractors/suppliers utilize the following link to access the online registration: <https://facilities.lausd.org/apps/pages/small-business>.

WORKER CERTIFICATION - Only Workers skilled in the various trades required on this Contract shall be employed upon the Work. In addition to all other requirements stated in the Bidding Documents, all craftsmen must adhere to the following requirement(s): Journeyman plumbers must possess a plumbing certificate issued by the Los Angeles County and City of Los Angeles, Building and Safety Divisions. All HVAC technicians must possess an EPA-608 Certification. Electricians working for a contractor with a C-10 license must possess a California State Electrician certification. Electricians that are certified can be verified via the State database at <https://www.dir.ca.gov/dlse/ecu/ElectricalTrade.html>. Elevator companies must possess a Certified Qualified Conveyance Company License (CQCC). Journeymen will be required to have their Certified Competent Conveyance Mechanics License (CCCM) from the State of California and Journeymen working within the City limits of Los Angeles will be required to have their Journeymen Elevator Mechanic's License. The State of California (Elevator, Ride and Tram Unit) will inspect all County Elevator Modernizations and Alterations.

Bidder is subject to the Project Stabilization Agreement (PSA) as set forth in Document 00 4500 and Section 00 7349.

The District's contract bond estimate is **\$4,412,000**.

The Contract Time is **560** days.

CONTRACTOR should consult the General Conditions, Supplementary Conditions, and General Requirements regarding Milestones and Liquidated Damages. CONTRACTOR has those options regarding retention as set forth in Public Contract Code Section 22300.

CONTRACTOR is advised that fraud is investigated by the Office of the Inspector General. The Inspector General of the Los Angeles Unified School District has statutory authority to audit and investigate persons and companies that do business with the District. Identified criminal acts including fraud, kickbacks, theft, and conspiracy are pursued to the greatest extent of the law, in conjunction with Federal, State, and Local law enforcement partner agencies.

Examples of offenses and corresponding maximum sentences are:

- 15 U.S.C. §1 Conspiracy to Restrain Trade - 10 years
- 18 U.S.C. §1341 Mail Fraud - 20 years
- 18 U.S.C. §1344 Bank Fraud - 30 years
- 18 U.S.C. §1349 Conspiracy to Commit Wire Fraud - 20 years
- 18 U.S.C. §1956 Money Laundering - 20 years
- California Penal Code §487 Grand Theft – 3 years

Offenses carry potential fines of up to \$1,000,000.

Call the OIG Hotline at **(213) 241-7778** or visit <https://oig.lausd.org/>

END OF SECTION

ADDENDUM NO. 2

OUTDOOR CLASSROOM AND CAMPUS UPGRADE
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BID AND ACCEPTANCE FORM

Bidder Name: _____

1.01 BID SUBMISSION INSTRUCTIONS

- A. **Submit this form, along with all other required bid forms, electronically as indicated in Section 00 2113 - Instructions to Bidders. The bid shall be submitted by the Bid Due Date.**
- B. Bidders shall keep the Bid and Acceptance Form intact and return all pages when submitting bid.
- C. Failure to submit the complete Bid and Acceptance Form may invalidate the bid.

1.02 BID DUE DATE: **BEFORE 2:00 P.M. ON WEDNESDAY, JULY 8, 2026**

The only acceptable time of receipt is the date/time stamp imprinted upon the bid package by the representative of Facilities Contracts.

1.03 PROJECT IDENTIFICATION:

- A. The undersigned is familiar with the terms of the Contract, the local conditions affecting performance of Contract, the cost of the Work at the place where the Work is to be done, and with the Drawings, Specifications and all other Bidding Documents. The undersigned hereby proposes and agrees to perform, within the Contract Time stipulated, the Work including all of its component parts; and to provide and furnish any and all of the labor, materials, tools, apparatus, facilities, expendable equipment, and all utility and transportation services necessary to perform the Work in accordance with the Contract and complete all Work in a workmanlike manner for: **SYLVAN PARK EARLY EDUCATION CENTER, OUTDOOR CLASSROOM AND CAMPUS UPGRADE (BV)(PSA), COLIN ID #10374546 / SCOPE ID #233171**

in strict conformity with the Drawings and Specifications prepared by:

Facilities Services Division
Los Angeles Unified School District

1.04 Bidder acknowledges the following Addendum:

Number Number Number Number Number Number Number Number Number Number Number Number

1.05 BASE BID (MUST BE FULLY COMPLETED BY BIDDER)

Bidder will complete the Work in accordance with the Contract Documents for the following base bid amount:

(\$ _____)
(numeric figures)

1.06 N/A

1.07 The base bid amount includes all Contract Allowances, if any, as set forth in the Specifications or as described in Section 01 2100 - Allowances. **N/A**

1.08 The base bid amount includes all applicable taxes and does not include Federal Excise Tax as set forth in Article 6.38 of the General Conditions.

1.09 BASIS OF AWARD OF CONTRACT:

- A. Pursuant to Public Contract Code 20119, OWNER shall award the contract to the bidder whose bid is determined to be the best value to the District. To determine the best value contractor, the District shall divide each bidder's price by its qualifications score. The lowest resulting cost per quality point will represent the best value bid.

ADDENDUM NO. 2

OUTDOOR CLASSROOM AND CAMPUS UPGRADE
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- B. The use of Public Contract Code Section 20119 does not preclude the OWNER from adding to or deducting from the Contract to be awarded any of the additive or deductive bid items identified in the bid solicitation.
- A. **OWNER RESERVES THE RIGHT TO REJECT ANY AND ALL BIDS.**

Article 1 - Scope of Work

The CONTRACTOR shall perform, within the time stipulated in the Contract Documents, all of which are incorporated herein and shall provide all labor, materials, equipment, tools, utility services, transportation and everything else necessary to complete in a workmanlike manner, and in exact compliance with the terms of the Contract Documents, all of the Work required in connection with the following titled Project:

SYLVAN PARK EARLY EDUCATION CENTER – OUTDOOR CLASSROOM AND CAMPUS UPGRADE 2610077 / 10374546 / 233171

[Contract Number/Project Number(s) – to be filled in by Facilities Contracts]

Article 2 - Time for Completion

The Work shall be commenced on the date stated in the OWNER Notice to Proceed. The time period for Contract Completion of the Work shall be **560** calendar days from the date set forth in the Notice to Proceed issued by the OWNER, and in accordance with the Contract regarding milestones and liquidated damages.
TIME IS OF THE ESSENCE.

Article 3 - Hold Harmless, Defense and Indemnification

To the fullest extent permitted by law, the CONTRACTOR, even if it is without fault itself, shall indemnify, defend and hold harmless the OWNER, the Board, the OCIP Administrator, and its and their respective officers, employees, program administrators, representatives, agents and consultants, from every liability, claim, loss, cause of action, action, demand, penalty, cost, expense (including without limitation, attorneys' fees) related to or arising from:

1. Any injury to person or property sustained by the CONTRACTOR or by any person, firm, or corporation, employed directly or indirectly by it upon or in connection with the Work;
2. Any injury to person or property sustained by any person, firm, or corporation, caused by any act, neglect, default, or omission of the CONTRACTOR or any person, firm, or corporation, directly or indirectly employed by it upon or in connection with the Work, whether the injury or damage occurs upon or adjacent to the Work;
3. The furnishing or use of any copyrighted or uncopyrighted composition, secret process, patented or unpatented invention, article, or appliance under the Contract Documents; and
4. As otherwise provided in the Contract Documents.

The CONTRACTOR at its own cost, expense, and risk, shall defend all legal proceedings that may be brought against all such potential indemnities for any such liability, claim, loss, cause of action, action, demand, penalty, cost and expense, and satisfy any resulting judgment that may be rendered against any of them whether or not the liability, claim, loss, cause of action, action, demand, penalty, cost and expense (including without limitation, attorneys' fees) was actually or allegedly caused wholly or in part through the negligence or other tortious conduct of any of them. OWNER shall have the right to approve counsel proposed for any such defense and shall be consulted with regard to any proposed settlement. This Article 3 is not meant to require the CONTRACTOR to defend, indemnify or hold harmless the potential indemnities from their own active negligence, such as is prohibited by Civil Code Section 2782.

Article 4 - Insurance

The OWNER maintains an Owner Controlled Insurance Program (OCIP). The specific provisions of that program are set forth in the General Conditions. CONTRACTOR will provide its own insurance coverage as to all types of

ADDENDUM NO. 2

OUTDOOR CLASSROOM AND CAMPUS UPGRADE
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insurance not provided for in the program and relevant to the Project in amounts of coverage and by carriers approved by the OWNER.

Article 5 - Bonding

If the amount of original award of the Contract exceeds TWENTY-FIVE THOUSAND DOLLARS (\$25,000.00), the CONTRACTOR shall furnish to the OWNER a Payment Bond (Material and Labor). CONTRACTOR shall also provide a Faithful Performance Bond. Both Bonds shall be for 100% of the Contract Amount and contain the terms and conditions required by Articles 5.16 through 5.17 of the General Conditions. The CONTRACTOR is also required to submit all other bonds as required by the Contract Documents.

Article 6 - Provisions Required by Law Deemed Inserted

Each and every provision of law and clause required by law to be inserted in the Contract Documents shall be deemed to be inserted and the Contract Documents shall be read and enforced as though it were included in the Contract Documents. If through mistake or otherwise any such provision is not inserted, or is not correctly inserted, upon application of either party the Contract Documents shall forthwith be physically amended to make such insertion or correction.

Article 7 - Lead Renovation, Repair & Paint (RRP) Rule Requirements

A. Bidder Requirement

1. The below requirement applies to all District projects at all District sites regardless of the construction date of the building and/or building occupant's age.
2. Bidder must have a valid USEPA Lead-Safe Renovator Firm Certificate.
3. Firms cannot advertise or perform renovation activities covered by RRP Rule without firm certification.
4. Firms that are paid to perform work that disturb paint must be certified. This includes all firms, even sole proprietorships. Firms covered under this requirement are General Contractors, sub-contractors, and Special trade contractors, including but not limited to painters, plumbers, carpenters, electricians, window installers and replacers, telecommunication, remodeling, and repair/maintenance firms.

B. General Requirement

1. The below requirement applies to all District projects at all District sites regardless of the construction date of the building and/or building occupant's age.
2. Contractor (Firm) performing lead-related construction work must possess a current US EPA Lead-Safe Renovator Firm training completion certificate and provide a copy of the USEPA Lead-Safe Renovator Firm Certificate. *The certificate must be submitted prior to starting work.*
3. Each laborer/journeyperson level worker performing lead-related construction work must possess a current USEPA Lead Renovation, Repair and Paint ("RRP") Rule training completion certificate and *provide a copy* of the USEPA Lead Renovation, Repair and Paint ("RRP") Rule Certificate. *The certificate must be submitted prior to starting work.*

Article 8 - Internal Revenue Code Section 179D

For the purposes of this section, the term "CONTRACTOR" shall refer to the Architect-Engineer or other entity with whom the OWNER has entered into the Contract and that would qualify as the entity primarily responsible for designing certain energy efficient improvements for property owned by a Federal, State, or local government or a political subdivision as defined by Internal Revenue Code Section 179D, as amended ("Section 179D").

If this contract pertains to a project that includes energy-efficiency improvements to (a) the interior lighting systems, (b) the heating, cooling, ventilation, and hot water systems, or (c) the building envelope, and CONTRACTOR qualifies as a "Designer" of these improvements, CONTRACTOR may opt to be treated as the taxpayer for the purposes of Section 179D, and if so, shall coordinate the allocation of that deduction as follows:

1. LAUSD has retained an Energy Policy Act ("EPAct") Coordinator to act on its behalf in connection with the allocation of the Section 179D tax deduction. No other companies or individuals are authorized to represent LAUSD in relation to this allocation; only the District's EPAct Coordinator is authorized.

2. LAUSD intends to allocate a portion of the tax deduction to CONTRACTOR, following third-party certification of the required energy savings under Section 179D. In exchange, CONTRACTOR shall provide cash compensation (sometimes referred to as a "rebate") to LAUSD in an amount calculated to yield equal net values for both parties, where net value is defined as the value of the benefit remaining after relevant adjustments are made. (See paragraph 5 below.) The form of the rebate will be a check payable to Los Angeles Unified School District issued within 45 days of CONTRACTOR's receipt of the tax refund or other realization of the tax savings generated by CONTRACTOR's claim of

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OUTDOOR CLASSROOM AND CAMPUS UPGRADE
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the Section 179D deduction on CONTRACTOR's federal tax return for the year the energy efficiency improvements were placed in service.

3. CONTRACTOR will arrange, at its own expense, for certification by a qualified third party that the installed energy-efficiency property meets the requirements established by Section 179D, and will submit that certification to LAUSD's Facilities Legislation, Grants and Funding office (FLGF) within 15 days of obtaining it.

4. FLGF will submit the certification to the LAUSD Chief Facilities Executive (CFE) along with a completed allocation statement (template attached), which the CFE will sign and submit to CONTRACTOR within 15 days of FLGF's receipt of the certification.

5. CONTRACTOR will submit to the U.S. Internal Revenue Service a tax return (or amended tax return) that includes the Section 179D deduction. Within 15 days of receiving the tax refund or other benefit of the tax deduction, CONTRACTOR will provide all information necessary for EPAct Coordinator to calculate the gross and net values of the tax benefit, where the gross value to LAUSD will be the amount of the check to be issued by CONTRACTOR to LAUSD (i.e. the rebate); the net value, which will be equal for both parties, will be the value of the benefit remaining after all relevant adjustments for each party have been made. CONTRACTOR's information needed for the calculation just mentioned will consist of invoices for legal, accounting, and certification services; an adjustment will also be made for the value of the tax deductibility of CONTRACTOR's rebate to LAUSD. LAUSD's relevant adjustment will consist of its fee and expenses for the EPAct Coordinator. (See attached Sample 179D Assumptions and Calculations.)

6. EPAct Coordinator will provide this calculation to CONTRACTOR so that CONTRACTOR can submit the rebate check to LAUSD. The check must be delivered to FLGF within 45 days of CONTRACTOR's receipt of the tax refund or other realization of the tax savings generated by CONTRACTOR's claim of the Section 179D deduction on CONTRACTOR's federal tax return.

7. CONTRACTOR will remain solely liable for any penalties, interest, or costs that might result from the preparation, submittal, or any other future disposition of its claim of the Section 179D tax deduction. If this contract pertains to a project that includes energy-efficiency improvements to be installed in a building as part of (a) the interior lighting systems, (b) the heating, cooling, ventilation, and hot water systems, or (c) the building envelope, and CONTRACTOR does not qualify as a "Designer" of these improvements according to Section 179D, then CONTRACTOR will identify its Designer subcontractors and the energy-efficiency improvements for which each subcontractor is responsible so that LAUSD can contact them directly regarding possible allocation of LAUSD's Section 179D tax deduction benefits.

BID DATE: _____, 20____

By _____ (SEAL)
(Firm Name as it appears on Contractor's State License)

(Authorized person to sign bid – print name)

(Signature of authorized person to sign bid)

Business Address: _____

Phone No. _____

Fax No. _____

Email Address _____

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OUTDOOR CLASSROOM AND CAMPUS UPGRADE
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00 4100-4

FOR FC USE ONLY

Contract Number

2610077



with Plans
with Specs

1.10 ACCEPTANCE

This Contract is made and entered into on the date set forth on Page 4 of this Contract, by and between the Los Angeles Unified School District, by and through its Board of Education (hereinafter the "OWNER"), and

_____,
{Name as it appears on Contractor's State License – to be filled in by OWNER / Facilities Contracts }

_____, a _____.
{sole ownership, partnership, corporation, joint venture, or other }

This Contract is for the purpose of constructing that Project identified as **SYLVAN PARK EARLY EDUCATION CENTER** and commonly referred to as **OUTDOOR CLASSROOM AND CAMPUS UPGRADE (BV)(PSA)**

CONTRACTOR is the lowest responsible bidder in response to an Invitation to Bid issued by the OWNER and represents that it is qualified to perform all of the terms, covenants, promises and conditions of this Contract.

Article 9 - Contract Amount

The OWNER shall pay, and the CONTRACTOR shall accept, in full payment for performance as required by the Contract Documents, the sum of _____

(To be filled in by OWNER / Office of Facilities Contracts)

(\$ _____), subject to any additions or deductions, if any, as provided in the Contract Documents. It is understood and agreed that all applicable taxes are included in the Contract Amount and that the Federal Excise Tax, from which the OWNER is exempt, is not included. The OWNER, upon request, will furnish the CONTRACTOR such Tax Exemption Certificates as may be required by the Manufacturer or Dealer.

All of the above-named Contract Documents are intended to be complementary. Work required by one of the above-named Contract Documents and not by others shall be done as if required by all.

Executed on _____, 20____ at Los Angeles, California.

(To be filled in by Chief Procurement Officer, Deputy Chief Procurement Officer (Facilities) (up to \$20M), Director of Facilities Contracts (up to \$10M), Sr. Contract Administration Manager (up to \$5M), Contract Administration Manager (up to \$2.5M), Assistant Contract Administration Manager (up to \$1M), or Contract Administration Analyst (up to \$500K))

LOS ANGELES UNIFIED SCHOOL DISTRICT

By: _____

CHIEF PROCUREMENT OFFICER, DEPUTY CHIEF PROCUREMENT OFFICER (FACILITIES), DIRECTOR OF FACILITIES CONTRACTS, SR. CONTRACT ADMINISTRATION MANAGER, CONTRACT ADMINISTRATION MANAGER, ASSISTANT CONTRACT ADMINISTRATION MANAGER, OR CONTRACT ADMINISTRATION ANALYST

BLUE INK SIGNATURE REQUESTED

**FAILURE TO SUBMIT THIS FORM OR ANY MODIFICATION(S) TO THIS FORM
SHALL RENDER THE BID NON-RESPONSIVE**

END OF DOCUMENT

ADDENDUM NO. 2

OUTDOOR CLASSROOM AND CAMPUS UPGRADE
SYLVAN PARK EARLY EDUCATION CENTER
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SECTION 00 7300

SUPPLEMENTARY CONDITIONS

WORK OF THE **SYLVAN PARK EARLY EDUCATION CENTER**

OUTDOOR CLASSROOMS AND CAMPUS UPGRADE PROJECT BY

THE LOS ANGELES UNIFIED SCHOOL DISTRICT

MAY 2026

SUPPLEMENTARY CONDITIONS

The following supplements modify the General Conditions. Where a portion of the General Conditions is modified and or deleted by these Supplementary Conditions, the unaltered portions of the General Conditions shall remain in effect.

Article 5 – GENERAL CONDITIONS

Remove and replace Article 5.1.3 with the following:

- 5.1.3** Owner will purchase and maintain Builder’s Risk insurance in the amount of the initial Contract Amount (and thereafter adjusted pursuant to any Change Orders issued to CONTRACTOR) for the full replacement value of the Work. The Builder’s Risk insurance will cover the interests of OWNER, CONTRACTOR and Subcontractors of every tier covering for all risk of direct physical loss, excluding earthquake and flood, and insuring against fire, extended coverage, theft, vandalism, and malicious mischief at limits and sub-limits determined by OWNER. CONTRACTOR will be provided a detailed Certificate of Insurance for the Work. CONTRACTOR shall be responsible for payment of a \$50,000 deductible for each occurrence. CONTRACTOR is exclusively responsible, at its sole expense, for obtaining any additional insurance to protect its interests including coverage for CONTRACTOR’s \$50,000 deductible per occurrence required by the OCIP Insurance Policies.

Remove and replace Article 5.4.8 with the following:

- 5.4.8** use only mechanical, electrical and plumbing (“MEP”) Subcontractors that are licensed pursuant to Sections 7056–7059 of the Business and Professions Code, specifically holding A, B, C-4, C-7, C-10, C-16, C-20, C-34, C-36, C-38, C-42, C-43, and C-46 licenses, and prequalified by the OWNER at least five (5) business days prior to the date of bid for the Project, if the Project includes MEP components that will be performed by first-tier MEP Subcontractors.

For all other trades, CONTRACTOR shall use only Subcontractors that it has safety pre-qualified in accordance with the procedures outlined in the Safety Standards Manual and verified by CONTRACTOR to have an Experience Modification Rate (EMR) that complies with OWNER’s requirement upon the date of bid. CONTRACTOR shall be responsible to provide documentation verifying all Subcontractors of CONTRACTOR have an EMR that complies with OWNER’s requirement upon the date of bid. OWNER may prohibit access to the Project Site by CONTRACTOR or any Subcontractor for which CONTRACTOR has not provided documentation of an EMR that complies with OWNER’s requirement upon the date of bid or waiver by OWNER of this requirement or has not

ADDENDUM 002

met the safety pre-qualification requirements outlined in the Safety Standards Manual.

Remove and replace Article 5.4.10 with the following:

5.4.10 submit an online payroll report for each completed payroll period and Application for Payment. Instructions for online access are provided in Section 8 of the OCIP Manual. This obligation includes compliance with all existing requirements and all new requirements implemented during the term of the Project. OWNER may decline to process or may apply a Withhold against, until receipt of the online payroll report, any Application for Payment submitted without completion of the online payroll report that is consistent with CONTRACTOR and Subcontractor (all tier) information submitted for the corresponding Certified Payroll Report periods.

Remove and replace Article 5.7.3 with the following:

5.7.3 CONTRACTOR represents on its own behalf, and on behalf of its Subcontractors, that the costs of OCIP Coverages were deducted in CONTRACTOR bid or proposal for the Work, the Contract Amount, and will not be included in any Change Order Proposals or any Application for Payment relative to the Work;

Remove and replace Article 5.7.4 with the following:

5.7.4 CONTRACTOR acknowledges OWNER shall not pay or compensate CONTRACTOR or any Subcontractor, in any manner, for the costs of OCIP Coverages or any other insurance costs of the CONTRACTOR or Subcontractors.

Article 6 – GENERAL CONDITIONS

Article 6.48.4 Working Hours:

Article 6.48.4.1.4 - delete this Article and replace with the following:

6.48.4.1.4 Where a single shift is worked, eight (8) consecutive hours between Monday and Sunday shall constitute a work day at the applicable prevailing wage rate(s).

Additional Information:

- (a) A single shift is worked between 3:00 PM and 11:30 PM, during Instructional School Days and Saturdays from 8:30 AM – 5:00 PM.*
- (b) A single shift is worked between 7:00 AM and 3:30 PM on Non-Instructional School Days, School Breaks, and Holidays, and only upon approval of the OAR. **The Contractor shall be permitted to***

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Outdoor Classrooms and Campus Upgrade
Sylvan Park EEC
BEST VALUE

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perform work during the day shift only with the prior express written approval of the principal or school administrator.

- (c) *All heavy demolition, waste removal, and indoor construction must be performed after 5:30 PM on weekdays or on Saturdays. All work must strictly adhere to the City of Los Angeles noise ordinance to ensure compliance with local decibel limits and allowable work hours. Contractor may perform some indoor work during the regular school hours (7:00 AM – 5:30 PM) only with the prior express written approval of the principal or school administrator.*
- (d) *The Contractor is obligated to work on Saturdays as needed to achieve milestones specified in Section 01 1219 of the specifications. No demolition or disruptive construction noise is allowed after 8:30 PM.*
- (e) *The Contractor must suspend all activities daily, **Monday thru Friday**, between 12:00 PM and 2:30 PM to observe student quiet hours.*

Article 6.48.4.1.5 - delete this Article and replace with the following:

6.48.4.1.5 Forty (40) hours between Monday, 7:00 A.M. and Sunday, 12:30 A.M. shall constitute a work week at the applicable prevailing wage rate(s). *When weekend work is required, a workday shall consist of Saturday and/or Sunday and /or holiday 8:30 AM to 5:00 PM shall be paid pursuant to the Prevailing Wage Determination. Please contact the Department of Industrial Relations for shift differential, Saturday, Sunday, and/or holiday pay requirements.*

The project site is situated within densely populated residential zones. The Contractor is strictly responsible for identifying and adhering to all applicable local and state laws, including municipal noise ordinances and parking regulations. Any work performed outside of standard allowable hours requires the Contractor to secure all necessary special permits and provide advance notification to the District.

SYLVAN PARK EEC is open five (5) days a week, all year round with no school recess from 7:00AM - 6:00PM.

Article 11 – GENERAL CONDITIONS

Remove and replace Article 11.10.2 with the following:

11.10.2 where Subcontractors are included in the change, the intent of Articles 11.8.1, 11.8.2, 11.8.3 and 11.11 is that the Subcontractor who actually performs or furnishes the Work, regardless of tier, will be paid a fee of fifteen (15) percent of the costs incurred by such Subcontractor under

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Articles 11.8.1 and 11.8.2, and CONTRACTOR will be paid a fee of ten (10) percent, for a maximum total fee of twenty five (25) percent;

Remove and replace Article 11.13 with the following:

Change Order Exceeding \$1,000,000:

11.13 Any individual Change Order in an amount that exceeds \$1,000,000 and which has been approved by the Deputy Chief Procurement Officer (Facilities), or designee, shall be subject to audit by OWNER as set forth in Article 14.8.

Article 12 – GENERAL CONDITIONS

Article 12.7 – Add Subarticle 12.7.1

Article **12.7.1** CONTRACTOR will be liable to OWNER for liquidated damages pursuant to Article 12.7 for each calendar day of delay in the amount of **\$750/per day**.

Article 14 – GENERAL CONDITIONS

Remove and replace Article 14.7 with the following:

14.7 If the certified Application for Payment is undisputed and properly submitted as per Articles 14.2 and 14.3, payment, less **FIVE** percent (**5%**) retention, any OWNER assessments and withholds will be made within thirty (30) days from receipt.

14.7.1 If the certified Application for Payment is not properly submitted and/or is otherwise disputed, the OAR will return it with a written statement setting forth the reason why the payment request is not proper.

14.7.2 If the payment request is properly submitted, and only a portion thereof is disputed, OWNER may pay the undisputed portion thereof and refuse to pay the disputed portion thereof until the dispute is resolved.

14.7.3 If CONTRACTOR disputes any OWNER assessment, then CONTRACTOR shall give written notice as set forth in Article 16.

14.7a At any time after fifty percent (50%) of the Work value of the Contract Amount is completed, CONTRACTOR may request in writing to the OAR a reduction of retention. OWNER may do one or more of the following, provided that the amount on retention is not reduced to less than 5% of the Contract Amount.

14.7a.1 Make any of the remaining progress payments in full after determining that the Work has progressed satisfactorily.

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14.7a.2 Retain up to **FIVE** percent (**5%**) of any of the remaining progress payments as OWNER determines appropriate.

14.7a.3 Pay CONTRACTOR any amount of the retention above that amount legally required to be retained or withheld.

Any reduction of retention is at OWNER's sole and absolute discretion and may be later revoked or modified.

Remove and replace Article 14.8 with the following:

14.8 Individual Change Orders exceeding \$1,000,000 require an audit by OWNER. Following approval of the Change Order and completion and acceptance of the Change Order Work, OWNER shall pay CONTRACTOR up to 80% of the value of the Change Order pending completion of the audit. Payment of the remaining amount, reflecting any adjustments as required by OWNER's audit, will be made upon completion of the audit.

END OF SUPPLEMENTARY CONDITIONS

SECTION 01 1100

SUMMARY OF WORK

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. The furnishing of all labor, materials, equipment, services, and incidentals necessary for Work of the **Outdoor Classroom and Campus Upgrade, at Sylvan Park Early Education Center** located at **15011 Delano St., Van Nuys, California 91411**, as set forth in the Construction Documents which include, but are not limited to, the Drawings, Addenda and Specifications.
- B. Project Scope of Work: Refer to Division 00 1116 "Invitation to Bid".
- C. **Other Inclusions as noted below.**
 - 1. **Perform complete scanning of all areas of construction (restrooms, playground structure/matting, asphalt, landings, drinking fountains, path of travel, utilities, etc.) using ground penetrating radar to determine locations of existing rebar, reinforcing steel, electrical and communication conduits, water lines, fiber optic cables, voids in concrete, underground utilities, etc. Request dig alert and perform pot holing prior to any excavation, trenching, digging, etc. Mark the site/areas of work. Include scanning reports of the area of construction in shop drawings for records.**
 - 2. **Contractor-Led Relocation**
 - a) **Relocation of Owner Property: The CONTRACTOR shall relocate any furniture or equipment not moved by the Owner as required to perform the scope of work. This relocation shall be at the CONTRACTOR's expense and performed at the direction of the OAR. Relocated items include, but are not limited to:**
 - **Interior: Office, restroom, and classroom furniture; educational materials; musical instruments; and contents of cabinets/drawers.**
 - **Exterior/Common: Lunch shelter tables and chairs; playground materials and equipment.**

Upon completion of the work in each area, the CONTRACTOR shall return all items to their original locations and configurations.

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Prior to any movement of furnishings or equipment, the CONTRACTOR and the OAR shall conduct a joint inspection to document the existing condition of all items. Any damage to furniture, equipment, educational materials, musical instruments, or building finishes resulting from the CONTRACTOR's operations shall be repaired or replaced to "like-new" condition at the CONTRACTOR's sole expense.

1.02 RELATED REQUIREMENTS:

1. Division 00 1116: Invitation to Bid
2. Section 01 1216: Phasing of the Work.
3. Section 01 2300: Alternates (Bid Items).
4. Section 01 3113: Project Coordination.
5. Section 01 3229: Project Forms.
6. Section 01 3213: Construction Schedule.
7. Section 01 4523: Testing and Inspection
8. Section 01 4525: Testing, Adjusting, and Balancing for HVAC.
9. Section 01 5000: Construction Facilities and Temporary Controls.
10. Section 01 7123: Field Engineering.

1.03 REGULATORY REQUIREMENTS

- A. Refer to Regulatory Requirements as defined by Specification Section 01 4523 "Testing and Inspection" and requirements of each Specification Section as noted.

PART 2 - PRODUCTS (Not used)

PART 3 - EXECUTION

3.01 USE OF PREMISES

- A. CONTRACTOR shall coordinate Work of all trades, Subcontractors, utility service providers, with OWNER and/or Separate Work Contract. CONTRACTOR shall sequence, coordinate, and perform the Work to impose minimum hardship on the

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operation and use of the existing facilities and/or Project site. CONTRACTOR shall install all necessary protection for existing improvements, Project site, property, and new Work against dust, dirt, weather, damage, vandalism, and maintain and relocate all protection to accommodate progression of the Work.

- B. CONTRACTOR shall confine entrance and exiting to the Project site and/or facilities to routes designated by the OAR.
- C. Within existing facilities, OWNER will remove portable equipment, furniture, and supplies from Work areas prior to the start of Work. CONTRACTOR shall cover and protect remaining items in areas of the Work.
- D. CONTRACTOR is advised school may be in session during performance of the Work. CONTRACTOR shall utilize all available means to prevent generation of unnecessary noise and maintain noise levels to a minimum. When required by the OAR, CONTRACTOR shall immediately discontinue noise-generating activities and/or provide alternative methods to minimize noise generation. CONTRACTOR shall install and maintain air compressors, tractors, cranes, hoists, vehicles, and other internal combustion engine equipment with mufflers, including unloading cycle of compressors. CONTRACTOR shall discontinue operation of equipment producing objectionable noise as required by the OAR.
- E. CONTRACTOR shall furnish, install, and maintain adequate supports, shoring, and bracing to preserve structural integrity and prevent collapse of existing improvements and/or Work modified and/or altered as part of the Work.
- F. CONTRACTOR shall secure building entrances, exits, and Work areas with locking devices as required by the OAR.
- G. CONTRACTOR assumes custody and control of OWNER property, both fixed and portable, remaining in existing facilities vacated during the Work.
- H. CONTRACTOR shall cover and protect surfaces of rooms and spaces in existing facilities turned over for the Work, including OWNER property remaining within as required to prevent soiling or damage from dust, dirt, water, and/or fumes. CONTRACTOR shall protect areas adjacent to the Work in a similar manner. Prior to OWNER occupancy, CONTRACTOR shall **professionally** clean all surfaces including OWNER property.
- I. CONTRACTOR shall not use or allow anyone other than OWNER employees to use facility telephones and/or other equipment, except in an emergency. CONTRACTOR shall reimburse OWNER for telephone toll charges originating from the facility except those arising from emergencies or use by OWNER employees.
- J. CONTRACTOR shall protect all surfaces, coverings, materials, and finished Work from damage. Mobile equipment shall be provided with pneumatic tires.

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- K. CONTRACTOR is advised OWNER will award Separate Work Contracts at this Project site.
- L. CONTRACTOR shall not permit the use of portable and/or fixed radios or other types of sound producing devices including walkmans and similar devices.
- M. **CONTRACTOR shall utilize a licensed Mechanical/HVAC subcontractor for the removal of all existing HVAC equipment.**
- N. **CONTRACTOR shall include in their bid, an estimate for ductwork and labor premiums required to expedite the detailing, fabrication, and procurement of supply and return ductwork for the Multizone unit. Upon anchoring the new AHU roof curb, the CONTRACTOR—at their own expense—shall immediately detail the lined ductwork and flex connections.**

The required turnaround is as follows:

Day 1: Set roof curb and schedule inspection for the following day. Detail ductwork and flex connections for the risers up to the finished roof curb height. Submit the details to the fabrication shop.

Day 2: Ductwork will be fabricated and loaded for Day 3 morning delivery at site.

Day 3: Installation and inspection are slated for completion by 2:00 PM on Day 3.

Day 4: Mechanical contractor will set the AHU, anchor it to the roof curb, and seal the supply and return risers to the unit.

- O. **Curb Inspection & Verification: Within 14 days of NTP, the CONTRACTOR shall perform selective demolition of the roofing and skirting on the (E) curb for structural inspection. Coordination: Contractor to schedule the OAR, Structural Engineer, and Manufacturer Rep to be present for the opening. Structural Review: Engineer to verify anchorage. Restoration: All openings must be made watertight within 24 hours of the investigation. Verification: Contractor to inspect the ceiling plenum to confirm that joists and framing match DSA-approved plans. Any discrepancies must be submitted via RFC.**
- P. **The CONTRACTOR is required to submit all animal print materials, including a representative mockup, within 30 days following the NTP for architect/owner approval.**
- Q. **Install and maintain compliant, removable temporary walkway to maintain emergency egress routes to the Safe Refuge Area located in the adjacent Elementary School for Classrooms 1 through 5. CONTRACTOR to install and**

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maintain removable temporary walkway to access school entrance. See 01 1219 Phasing of Work for additional information.

- R. All heavy demolition, waste removal, and indoor construction must be performed after 5:30 PM on weekdays or on Saturdays. All work must strictly adhere to the City of Los Angeles noise ordinance to ensure compliance with local decibel limits and allowable work hours.**
- S. Soil testing and management: Execute all required import/export material testing at every project phase in strict compliance with Specification 01 4524 for Environmental Import/Export Material Testing. This includes sampling for environmental compliance and managing the hauling/removal of soil from the site.**
- T. Temporary irrigation and maintenance of softscape/planting: Contractor is responsible for temporary irrigation and maintenance of all on-site planting (existing and new) for the duration of the system shutdown. Temporary watering measures must be sufficient to maintain plant health, and the Contractor shall be liable for any landscaping replacement costs resulting from inadequate care.**
- U. CONTRACTOR is required to review the As-built plans and verify them against existing site conditions. They must identify any potential conflicts that may arise from existing conditions affecting new construction. Additionally, the CONTRACTOR is responsible for conducting potholing as needed to ascertain the routing and profile of all existing underground utilities and duct banks. All identified conflicts must be documented and submitted in a plan format, with clear reference identification on the plans. The CONTRACTOR must provide detailed information about these conflicts on the plans, ensuring clarity and specificity.**
- V. The Contractor must assign one (1) staff member who is trained in 16-hour asbestos certification to the project and provide proof of current certification. It is recommended that all demolition workers also possess 16-hour asbestos training. Additionally, the Contractor must assign one (1) staff member who is trained in 8-hour Renovation, Repair, and Paint (RRP) lead certification, and provide proof of current certification. It is recommended that all demolition workers receive 8-hour RRP training as well. Workers involved in Door and Hardware installations must have both 16-hour asbestos and 8-hour lead training. Furthermore, the Contractor must ensure they have properly trained personnel capable of managing asbestos and/or lead abatement in accordance with Section 02 8213 (asbestos) and Section 02 8333 (lead) requirements.**
- W. Contractor to follow all United States Department of Justice (DOJ) requirements. Submit employee list with proof of DOJ clearance for approval.**

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- X. CONTRACTOR to repair asphalt/concrete area where construction staging area was located after demobilization. Submit proposed repair/replacement process via submittal for approval.**
- Y. The CONTRACTOR shall provide portable air conditioning units (minimum 14,000 BTU) with heating capacity for each classroom, corridor, kitchen and office during the replacement of the multi-zone and air handling rooftop units in the Classroom Building and in each classroom in the Classroom Building. To ensure climate stability, the temporary system must be installed and tested for one full month prior to decommissioning the existing HVAC system. This temporary service shall remain in place until the new system is fully operational.**
- Z. The Contractor shall ensure that all school emergency bins remain accessible at all times. The Contractor is responsible, at no additional cost to the Owner, for relocating the bins or providing unobstructed access to them as necessary throughout the duration of the project.**
- AA. The Contractor shall maintain a clear, continuous, and unobstructed path of travel for the food service cart between Sylvan Park Elementary School and the Sylvan Park Early Education Center building during all school operating hours. The Contractor shall coordinate all activities with the Owner to ensure uninterrupted access at all times.**

3.02 PROPERTY INVENTORY

- A. Property, OWNER intends to remove; will be removed by OWNER before a room or space is vacated for the Work. Before performing Work in each room or space, OAR and CONTRACTOR shall prepare a detailed initial written inventory of OWNER property remaining within, including equipment and telephone instruments and the condition thereof. OAR and CONTRACTOR shall retain a signed copy of the inventory dated and signed by both parties. Prior to subsequent OWNER occupancy of each such room or space, OAR and CONTRACTOR shall perform a final inventory of OWNER property and all discrepancies between the initial inventory and final inventory shall be the responsibility of CONTRACTOR.

3.03 FURNITURE, FIXTURES AND EQUIPMENT (MATERIALS) OWNER FURNISHED CONTRACTOR INSTALLED (OFCI)

- A. Certain materials identified in the Contract Documents as OWNER Furnished CONTRACTOR Installed, OFCI, will be delivered to the Project site by the OWNER.
- B. If designated in the Contract Documents to be OWNER furnished CONTRACTOR installed, (OFCI), CONTRACTOR shall unload, store, uncrate, assemble, install, and connect OWNER supplied materials.

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- C. One-Hundred and Twenty days before the date the CONTRACTOR needs to have the OFCI materials on site, CONTRACTOR shall notify OWNER of the scheduled date for needed OFCI materials. Upon delivery to Project site, CONTRACTOR shall store OFCI materials inside rooms and/or protected spaces and will be responsible for security of OFCI materials until Substantial Completion. OAR will sign receipt or bill of lading as applicable.
 - D. CONTRACTOR shall, within ten days after delivery, uncrate and/or unpack OFCI materials in presence of OWNER who shall inspect delivered items. OWNER shall prepare an inspection report listing damaged or missing parts and accessories. OWNER shall transmit one copy of the report to CONTRACTOR. OWNER will procure and/or replace missing and or damaged OFCI materials, as indicated in inspection report.
 - E. CONTRACTOR shall install OFCI materials in the locations and orientation as indicated in the Contract Documents. CONTRACTOR shall verify exact locations with OAR before final installation of OFCI materials.
 - F. If required, OAR will furnish setting and or placement drawings for OFCI materials.
 - G. CONTRACTOR shall install OFCI materials by proper means and methods to ensure an installation as recommended by the manufacturer. CONTRACTOR shall furnish and install all necessary fasteners and required blocking to properly install OFCI materials.
 - H. CONTRACTOR shall install OFCI materials with manufacturer recommended fasteners for the type of construction to which the OFCI materials are being fastened and/or anchored.
 - I. CONTRACTOR shall provide final connections of any electrical, signal, gas, water, waste, venting and/or similar items to OFCI materials. CONTRACTOR shall, prior to final connection, verify the operating characteristics of OFCI materials are consistent with the designated supply.
- 3.04 FURNITURE, FIXTURES AND EQUIPMENT (Materials) - OWNER furnished, OWNER installed (OFOI)
- A. Certain materials are identified in the Contract Documents as OWNER Furnished, OWNER Installed (OFOI)
 - B. On dates and during times designated by OWNER, CONTRACTOR shall provide clear off-loading, receiving, protected storage, and OWNER'S dumpster space areas for the use of OWNER or OWNER'S third party OFOI installation contractors. At such times, CONTRACTOR shall also make clear routes and access available to all rooms and spaces to receive OFOI materials.

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- C. On dates and during times designated by OWNER, CONTRACTOR shall provide access to the elevators for use of OWNER or OWNER'S third party OFOI installation contractors.
- D. CONTRACTOR shall cooperate fully with OWNER or OWNER'S third part OFOI installation contractors.
- E. CONTRACTOR may be requested by OWNER to provide supplemental labor and equipment to support OFOI activities. Such requests must be submitted in accordance with the change order clauses of Contract.
- F. Immediately prior to mobilization of OWNER or OWNER'S third party OFOI installation contractors, OWNER shall document the condition of the Work in areas to be utilized for OFOI activities.
- G. CONTRACTOR shall not be responsible for damage caused by OWNER or OWNER'S forces. OWNER shall document the condition of the Work and report to CONTRACTOR any damage in areas utilized for OFOI activities.

3.05 SOLID CONTAINMENT

- A. **Contractor shall provide a temporary solid containment protection partition /barrier at required locations where sink modifications, restroom upgrades, drinking fountains re-work door frame modifications, and any other interior work is performed.**
- B. **Environmental Remediation Work Plan shall include plans for the construction and installation of temporary barrier to protect and isolate people from work activities.**
- C. **Include the construction and installation work activities of the temporary barrier in the Baseline at each location where protection is needed.**
- D. **Prepare and submit a sketch showing the method of construction and anchoring details, for approval by Architect and/or LAUSD. Once sketch is approved, provide a mock -up in unoccupied classroom for the final approval by Architect and/or LAUSD.**
- E. **Limit footprint of area to be protected, such that it does not significantly encroach on the existing space. Ensure that the exterior of the solid barrier is smooth and shall not have sharp edges. This shall be maintained daily, as needed. The existing floor, walls and ceiling must be restored after containment is removed.**

3.06 OTHER REQUIREMENTS

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- A. The CONTRACTOR is responsible for the restoration of all disturbed finishes. Walls and ceilings shall be patched and painted corner-to-corner and ceiling to floor to ensure a seamless match with existing conditions. Any work impacting existing doors requires full patching and repair, followed by a complete repaint of the entire door surface.
- B. CONTRACTOR shall submit daily reports to the OAR no later than 12:00 PM the following business day. Reports must include clear progress photos capturing the work performed during that shift. Reports must provide a full inventory of equipment onsite and include copies of the daily sign-in sheets for all personnel. Each report must explicitly identify, and segregate work performed under the Base Contract versus work performed under an approved or pending Change Order.
- C. CONTRACTOR shall be completely responsible for, and shall provide all means, methods and materials to fully protect and/or otherwise prevent damage to the owner's property and work until Substantial Completion.

Elevation Adjustments: If the CONTRACTOR's work on the exterior Path of Travel (POT) or landings results in a change to the finished grade or elevation, the CONTRACTOR shall be responsible for all resulting impacts to adjacent vertical surfaces. Where wall surfaces (e.g., stucco, masonry, or siding) are exposed, damaged, or left unfinished due to raising or lowering elevations, the CONTRACTOR shall patch, repair, and refinish the affected areas. All repairs must be feathered into the existing surface to create a seamless transition. The final finish, texture, and paint color must match the existing surrounding conditions.

- D. Contractor shall maintain full compliance with all local laws and residential ordinances. Given the site's density, strict adherence to noise control and public right-of-way parking regulations are required. The Contractor is responsible for securing any necessary permits or variances for activities conducted outside standard allowable hours.

CONTRACTOR to utilize soundproof barriers / noise blankets on exterior temporary barricades and/or fencing. Sound Barrier Protection to be installed along the perimeter of the work, including the property boundaries between the school and residential area. Provide submittal for material approval prior to installation.

- E. The CONTRACTOR shall provide a Certified Acceptance Test Technician (ATT) service to ensure compliance with Title 24 requirements, including all necessary mechanical support required, as referenced in the sheets Mechanical sheets.
- F. Temporary Climate Control: While the Energy Management System (EMS) is offline or non-functional, the CONTRACTOR shall provide and install temporary

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thermostats to maintain manual temperature control and ensure occupant comfort within the affected rooms.

- G. All service shutdowns—including gas, water, and power—must be coordinated with the OAR and school administration 72 hours prior to start of activity. Work must be scheduled to avoid impacting school operations and may only occur after all students and personnel, including those in after-school programs, have vacated the premises.
- H. Schedule fire alarm testing after school hours to avoid impacting campus operations. All testing must remain compliant with city noise ordinances regarding after-hours disturbance. This must be coordinated with OAR at least 72 hours prior to the start of activity.
- I. CONTRACTOR is responsible for site protection during inclement weather. Contractor to coordinate proactive measures (tenting, coverings, etc.) at project start-up to mitigate potential schedule impacts and damage to the work.
- J. CONTRACTOR shall schedule and execute all concrete abrasive blasting operations exclusively during hours when no staff, faculty, or students are present on the Project site. The Contractor shall strictly comply with all applicable local, state, and federal regulations throughout the duration of the work, including but not limited to: Cal/OSHA, California Air Resources Board, and Municipal/City Codes. The Contractor must perform all concrete abrasive blasting utilizing an enclosed, negative-pressure dust extraction system. This containment method must successfully prevent the migration of dust and debris outside the designated work area.
- K. CONTRACTOR shall schedule and execute all scope associated with the application of the Street Tree Revival, or equal product, exclusively during hours when no staff, faculty, or students are present on the Project site. The Contractor shall strictly comply with all applicable local, state, and federal regulations throughout the duration of the work, including manufacturer's recommendation for application, storage and use.

END OF SECTION

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SECTION 27 4113

PORTABLE ASSISTIVE LISTENING SYSTEMS

PART I - GENERAL

1.01 SUMMARY

- A. Principal items of Work in this Section include but are not limited to:
 - 1. A portable Assistive Listening Systems that allows to broadcast audio to wireless headset from the speaker.
- B. Related Requirements:
 - 1. Division 01 - General Requirements.
 - 2. Section 26 0500: Common Work Results for Electrical.
 - 3. Section 26 0513: Basic Electrical Materials and Methods.
 - 4. Section 26 0526: Grounding and Bonding.
 - 5. Section 26 0519: Low-Voltage Wire (600 Volts AC).
 - 6. Section 26 0533: Raceways, Boxes, Fittings, and Supports.
- C. Codes and Applicable Standards: complete installation shall meet or exceed the latest edition of the following standards.
 - 1. California Building Code (CBC).
 - 2. California Electrical Code (CEC).
 - 3. ANSI S12.60 Acoustical Performance Criteria, Design Requirements, Guidelines for Schools.
 - 4. Building Industry Consulting Service International (BICSI) Telecommunications Distribution Methods Manual, current edition.
 - 5. Federal Communications Commission (FCC) Listing requirements.

6. Underwriters Laboratory (UL) or other Nationally Recognized Testing laboratories (NRTL).
7. Telecommunications Industry Association (TIA), and Electronic Industries Alliance (EIA) applicable sections to sound amplification systems and loudspeakers.

1.02 SYSTEM REQUIREMENTS

- A. The sound enhancement system includes components needed to provide amplification of the teacher's voice and full integration with other audio and video educational technology equipment.
 1. Sound enhancement shall be clear, high fidelity, uniform, and enough to override typical classroom noise levels.
 2. 2-way wireless audio communication of 1.9 GHz or equal with a wireless transmission range of 200 ft (60m) minimum.
 3. Provide all labor, materials and testing.
 4. System and peripheral components shall be from a single manufacturer.

1.03 SUBMITTALS

- A. Provide the following submittals:
 1. Materials: Submit a complete material list for the materials and products of this section. Each submittal shall be bound and shall contain an index organized vertically by assembly and item number, and horizontally by columns. The leftmost column shall be the item number; next shall be the description, followed by the applicable specification section number, followed by the specified item, which is followed by the submitted item. The rightmost column shall be for notes, which shall be used to reference the reason for submitting items other than as specified.
 - a. A substitution request form with all supporting documentation shall be submitted when Contractor proposes to utilize non-approved products.
 - b. Substitution materials and products shall not be used unless previous approval has been obtained.
 - c. Substitution requests shall comply with the requirements set forth in Division 01, section 01 3300 – Submittal Procedures.

- B. Product Data: Include Product Data sheets or catalog cut sheets for items listed in index. Items shall be arranged in the same order as the index, and if more than one item is indicated, the submitted items shall be highlighted or marked with an arrow. Product Data should be sufficiently detailed to allow the Architect to review the product and to allow other trades to provide necessary coordination. Include in the Product Data list submission, installation instructions, parts list with products serial numbers, and copies of installer's manufacturer certificates.
- C. NOT USED.
- D. NOT USED.
- E. Provide samples of material and equipment as required by the Architect. If samples are requested, they shall be submitted within ten days from date of request.

1.04 SYSTEM DESCRIPTION

- A. The Portable Assistive Listening System shall be comprised of components needed to provide amplification of the speaker's voice, and full integration with other audio equipment to receive audio signals.
- B. Each Classroom Sound Enhancement (CSE) System shall be complete and independent. A typical system shall have an audio amplifier, a teacher's (lapel, collar, or neck hang) wireless microphone, a handheld student wireless microphone, speakers evenly distributed throughout the classroom, and all required cables to interconnect the system to classroom audio/visual components and assistive listening equipment. The system shall deliver a uniform sound distribution regardless of the arrangement of teacher and students, and materials and equipment.
 - 1. System shall function without audible or visual distortions, hum, buzz or rattle under normal operating conditions.
 - 2. System signals shall be contained within the perimeter of the classroom and/or educational space.
- C. The contractor shall provide one portable hearing assistive listening transmitter kit with one transmitter and two receivers with neck loops in a quantity to support 4% of the largest assembly occupancy in the project.
- D. Portable Speakers shall be exterior rated.

1.05 QUALITY ASSURANCE

- A. Only qualified Installers holding required state contractor's license shall do the work.
- B. Work shall be performed by manufacturer certified system installers with at least five

installed school systems of equivalent scope. The installer shall be engaged in the business of supplying and installing specified types of systems for at least five years. Installer shall maintain a fully equipped service organization capable of furnishing repair services.

- C. The Installer shall use adequate numbers of skilled personnel who are manufacturer certified, trained and experienced on the necessary crafts and familiar with the specified requirements and methods needed for the proper performance of the work.
- D. Installer shall be a factory authorized distributor and service provider for the brand of equipment offered and shall provide documentation to the Architect upon request.
- E. The Installer shall provide personnel and tools required to participate in Owner's Quality Assurance and Testing.
 - 1. Should the examination reveal deficiencies, the Owner's acceptance testing will be discontinued until corrections have been made. When the Installer has completed the corrections, a subsequent Quality Assurance test shall be initiated.
- F. Materials and equipment installed shall be new and installed in compliance with prevailing national and local engineering practices, codes and standards.
- G. System startup and testing shall be performed under the direct observation of the Project Inspector and Owner Authorized Representative.
- H. Materials, surface, or existing work damaged in the performance of the Work shall be repaired or replaced at no cost to Owner. Examination of, or failure to examine work by the Owner shall not relieve Contractor from these obligations.

1.06 WARRANTY AND SPARE PARTS

- A. Warranty that works executed and materials furnished are free from defects of material fabrication and execution for a period of three years from acceptance date of Substantial Completion. Immediately upon receipt of written notice from the Owner, repair or replace, at no expense to the Owner, defective material or work that may be discovered before final acceptance, or within warranty period.
 - 1. Repairs shall also include damage caused to existing structure components or systems during the execution of this contract.
 - 2. Damages to existing structure components or systems shall be repaired or replaced at no extra cost to the owner.

1.07 MAINTENANCE PERIOD

- A. Make available a 12-month service contract offering continuing factory-authorized

service of the System after the initial warranty period has expired. The service contract shall include unit pricing for equipment and labor.

- B. Maintenance and testing shall be as required by local authorities having jurisdiction. Provide a maintenance schedule that describes the plan for preventive maintenance of devices and subassemblies requiring regular maintenance. The schedule shall include as a minimum the following items:
 - 1. Systematic examination, adjustment and cleaning of main components, manual transmitters, speakers, and infrared domes.
 - 2. Circuits in the sound enhancement system shall be tested semiannually.
 - 3. Material matrix cost with a breakdown of unit and labor costs.

1.08 TRAINING

- A. Upon Substantial Completion, provide a four-hour training session conducted by manufacturers approved technical personnel. Coordinate training session schedule with the Owner Authorized Representative.
- B. Provide one copy of manuals and user guides for each person attending the training session.

PART 2 - PRODUCTS

2.01 MANUFACTURER

- A. Approved products: Lightspeed Technologies Inc., model 975-FD, or Audio Enhancement System, Model Sentinel XD, or District approved equal.

2.02 EQUIPMENT CHARACTERISTICS

The Portable Assistive Listening system shall be able to plug in to any power and use without any low voltage infrastructure constraints. The following specifications represent the minimum acceptable levels of performance and system characteristics.

- A. Amplifier: Provide Portable Stereo PA system, with performance as follows: (Basis of Design: JBL EON208P Stereo PA system or Equal.)
1. Audio Power: 300 watts (All channels combined) minimum.
 2. Frequency Response: 70 Hz to 18 KHz. Minimum.
 3. Inputs 6 inputs (4 mono MIC/Line, 2 x Stereo) 1-4 are XLR/1/4" Jack Combo connectors, XLR is Mic level in, 1/4" is line in, 5-6, one pair of 1/4" balanced TRS jacks (stereo), and one pair of RCA jacks (stereo), 7-8, one pair of 1/4" channels balanced TRS jacks (stereo), and a 3.5 mm stereo jack.
 4. AC Input: 100-120 V, 220-240 V 50/60 Hz
 5. Wireless communication: Bluetooth connectivity.
 6. Auxiliary Volume and Controls required:
 - a. Audio Input Volume Control.
 - b. Teacher Band Equalizer or Tone Control.
 - c. Audio Output Volume Control.
 - d. Microphone Volume Controls.
- B. Pendant Microphone: Integrated Pendant style transmitter with performance as follows:
1. Wireless communication.
 2. Audio distortion: Less than 1.0 percent
 3. USB-C 2-way audio digital interface-

4. Equipped with microphone gain adjustment.
 5. Provide Rechargeable Batteries with a minimum battery life of eight hours.
 6. User Controls: On/Off/Mute.
 7. Charging stand and batteries included.
 8. Battery Power: 3.5V Li-Ion Battery Pack.
- C. Handheld Microphone: Two-Channel Handheld Transmitter_with performance as follows:
1. Wireless communication 1.9 GHz.
 2. Audio distortion: Less than one percent
 3. Provide Rechargeable Batteries with a minimum battery life of eight hours.
 4. User controls: On/Off/Mute.
 5. Charging stand and batteries included.
 6. Battery Power: 3.5V Li-Ion Battery Pack
- D. NOT USED
- E. Wireless Microphone Antenna:
1. Wireless communication within classroom limits at 1.9 GHz or equivalent.
 2. 200 ft minimum transmission range.
- F. Portable Assistive Listening System:
1. The Portable Assistive listening system shall be manufactured by Williams Sound, Phonic Ear, or an equal established manufacturer.
 - a. The ALS system shall be capable of interfacing with the voice amplification systems and any media program audio systems installed and shall comply with CBC sections 11B-219 and 11B-706.
 - b. The ALS system shall be capable of providing a sound pressure level of 110 dB minimum and 118 dB maximum with a dynamic range on the volume control of 50 dB.

- c. Signal-to-noise ratio for internally generated noise shall be 18 dB minimum.
 - d. Peak clipping shall not exceed 18 dB of clipping relative to the peaks of speech.
- 2. Provide electrical outlets or other wiring necessary to support the portable ALS systems.
- 3. Each Portable Assistive Listening System kit shall include the following or equal components:
 - a. (1) PPA T27 transmitter
 - b. (5) PPA R37 receivers
 - c. (5) BAT 001-2 AA alkaline batteries
 - d. (5) EAR 013 single mini earbuds
 - e. (5) NKL 001 neck loops
 - f. (1) IDP 008 ADA wall plaque
 - g. (1) ANT 021 Antenna
 - h. (1) TFP 036 Power Supply
 - i. (2) MIC 090 Mini lapel clip microphone
 - j. (3) BAT KT7 battery charger
- 4. The contractor shall deliver the classroom assistive listening transmitter and receiver equipment to the project OAR for delivery to school administration.
- G. Wiring:
 - 1. General wiring and cabling requirements:
 - a. Wiring shall be laced and securely fastened in place so that no weight is imposed on any equipment, control switches, or terminals.
 - b. Provide Class 2, or better loudspeaker and sensor wiring.
 - c. Wires shall be shielded.
 - d. Wires carrying power shall be shielded.
 - e. Cables shall be labeled with the description of the system and channel

served.

- f. Composite faceplate connectors shall be gold plated female/female coupler connectors.
- g. RCA faceplate connectors shall be gold plated female/female coupler connectors.
- h. Category 6 cables shall be terminated on an 8-conductor category 6 jack wired in accordance with the Telecommunication Industry Association standard T568B.
- i. Cabling shall be plenum rated and installed on J-hooks above T-bar ceilings.
- j. Cables length shall not cause strain on the connecting lugs.
- k. Cables maximum bend radius shall not be exceeded.
- l. Contractor shall be responsible for all labor, materials, and installation costs necessary for the replacement of installed cables damaged or subjected to installation practices outside of these specification requirements.

2. Cable Characteristics:

- a. HDMI Audio Video Cable
 - 1) Gold plated HDMI Type A molded male connectors.
 - 2) 100% aluminum foil shield
 - 3) Flexible plenum jacket.
 - 4) Teflon insulation.
- b. 3.5mm Audio Cable (L+R)
 - 1) Gold plated 3.5mm molded male connectors.
 - 2) Two individually shielded pairs.
 - 3) 22 AWG Stranded (7X30) copper conductors.
 - 4) Flexible plenum jacket.
 - 5) Teflon insulation.

- 6) 100% aluminum foil shield
- c. RCA L+R Stereo to 3.5 mm Stereo Cable
 - 1) Two individually shielded pairs.
 - 2) 22 AWG Stranded (7X30) copper conductors.
 - 3) Flexible plenum jacket.
 - 4) Teflon insulation.
 - 5) 100% aluminum foil shield
 - 6) Gold plated RCA solder cup male connectors.
- d. Category 6 Cable
 - 1) Category 6 rated
 - 2) 24 AWG
 - 3) 4 pair assemblies
 - 4) Cable shall meet ANSI/TIA/EIA minimum requirements for return loss, propagation delays skew, NEXT loss, PSNEXT loss, FEXT loss, ELFEXT, and PSELFEXT for 4-pair Category 6 cabling as detailed in ANSI/TIA/EIA-568-C-2.
- e. Coaxial Cable

Coax cable from assistive listening transmitter to wireless microphone antenna shall be RG-58 A/U, Belden 8219, or equal.'
- H. Battery Charger: Provide battery charger stand for both pendant and hand-held microphone rechargeable batteries.
- I. Grounding:
 - 1. Wiring enclosures, cabinets, outlets, frames of cabinet racks and other enclosures shall be effectively grounded in accordance with requirements of California Electrical Code, and manufacturer's recommendations.

PART 3 - EXECUTION

3.01 SOUND ENHANCEMENT SYSTEM INSTALLATION

- A. Amplifier and Receiver: Install in audio visual cabinet or media cabinet located in front of classroom, or at an alternative location approved by the projects' Design Manager and OAR. The system must allow for remote sensor(s) for signal reception.
- B. Install a single gang A/V outlet box at 15" above finished floor on a wall near the teachers' desk and adjacent to the teachers' desk data and intercom telephone outlets. Stub up (1) 1-1/4" EMT conduit 4" above the ceiling from the teacher's desk A/V outlet box.
- C. Install a four-gang outlet box at 60" above finished floor on the wall behind the classroom Audio Visual cabinet, or at an alternate location approved by the project's Design Manager and OAR. Stub up two 1 1/4-inch EMT conduits 4" above the ceiling from the classroom Audio Visual equipment cabinet four gang outlet box.
- D. Wiring within cabinets shall be installed to conform to engineering practice standards. Wiring shall be cabled, laced and securely fastened in place so that no weight is imposed on equipment, control switches, or terminals. The contractor shall provide wires and connectors in compliance with Audio/Video Cabling and test and acceptance requirements herein defined.

3.02 CERTIFICATION AND TESTING

- A. Provide instruments for testing and demonstrate, in presence of the Owner, that circuits and wiring are free of shorts and grounds.
- B. Furnish labor, instruments, equipment, and materials necessary to demonstrate to the Owner the installation performs as required and specified.
- C. The Owner reserves the right to perform independent tests of equipment furnished, to determine whether equipment complies with the specified requirements.

3.03 PROJECT RECORD DOCUMENTS

- A. NOT USED
- B. Operating and Servicing Manuals, Record Drawings:
 - 1. Deliver three copies of operating and servicing manual. Each complete manual shall be bound in three ring binders. Data shall be typewritten or drafted.
 - a. Each manual shall include a page with Project site and Project name, date of Substantial Completion, Contractor name, address, telephone, and fax numbers.

- b. Each manual shall contain a letter, signed by an officer of the company indicating the beginning and ending date of warranties described in subsection 1.06 of this specification and shall describe the company's commitment to service the warranty during the terms specified.
- c. Each manual shall include instructions necessary for proper operation and servicing of system and shall include the following:
 - 1) A single line diagram of the system indicating items and their point-to-point connections in a manner following floor plans layouts.
 - 2) A complete wire diagram of connections made between components inside the Audio-Visual console.
 - 3) Custom fabricated circuits, components and connections not detailed in the manufacturer's manuals shall have wiring diagrams detailing to component level, and circuits connectivity.
- d. Each manual shall also include as-built drawings size B (11 by 17) bound into the manual.

3.04 PROTECTION

- A. Protect the Work of this section until Substantial Completion.

3.05 CLEANUP

- A. Remove rubbish, debris and waste materials and legally dispose of off the Project site.

3.06 OWNER ORIENTATION

- A. After Substantial Completion, provide a four-hour Owner instruction period to designated personnel.
- B. Instruction shall be based on manufacturers written operating instructions covering those features of interest to the Owner and applicable to the work.

END OF SECTION

SECTION 32 1828
DECOMPOSED GRANITE SURFACING
FOR OUTDOOR LEARNING ENVIRONMENTS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes:
 - 1. Stabilized Decomposed granite over crushed aggregate base.
- B. Related Requirements:
 - 1. Division 01 - General Requirements.
 - 2. Section 31 2200 - Grading.
 - 3. Section 31 2326 - Base Course.
 - 4. Section 32 1313 - Site Concrete Work.

1.02 PROJECT REQUIREMENTS

- A. Unless otherwise indicated on the Drawings, Decomposed Granite area sub-grade soils shall be graded 8 inches below final finish grades indicated on the Drawings. A 4-inch layer of compacted crushed aggregate base shall be installed to the required finish grades. A 4-inch layer of compacted decomposed granite shall then be installed to the required finish grades.

1.03 REGULATORY REQUIREMENTS

- A. Hauling Routes and Restrictions: Comply with requirements of governing authorities having jurisdiction over the Work.
- B. Fees: Pay fees and post bonds for import or export of earth and rock materials as required by authorities having jurisdiction over the Work.

1.04 SUBMITTALS

- A. Submit in accordance with Section 01 3300 - Submittal Procedures.
- B. Submit a five-pound sample and sieve analysis per ASTM C136 for decomposed granite.
- C. Submit two 6-inch by 6-inch by 2-inch thick compacted, dry and cured samples to OWNER for record.

1.05 QUALITY ASSURANCE

- A. Comply with the Standard Specifications for Public Works Construction, current edition, except as modified herein.

- B. Provide evidence of successful experience by the installer in the Work of this section.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Do not install decomposed granite during rainy conditions.

PART 2 - PRODUCTS

2.01 CRUSHED AGGREGATE BASE

- A. Base materials shall comply with Section 31 2326 - Base Course.

2.02 DECOMPOSED GRANITE

- A. DG shall have a 3/8" maximum gradation, produced from naturally friable rock/granite with enough fines to produce a smooth walking surface. Materials should be free from clay lumps, organic matter, and deleterious material. Blends of coarse sand and rock dust are not acceptable.
- B. Use a single supply source for the entire quantity required. Gradation, in accordance with ASTM C136:
- C. Color: Should have gold to yellow hues. To be selected by Architect from manufacturer's standard colors.
- D. Supplier: Southwest Boulder & Stone, Fullerton - Phone: 714-882-1010

2.03 AGGREGATE BINDER

- A. Provide GraniteCrete Admixture or equal LAUSD approved product. Color: Natural Gold

PART 3 - EXECUTION

3.01 EXCAVATION

- A. Excavate to depth required so edges of crushed aggregate blended with GraniteCrete admixture surfacing will match adjacent grades and have a maximum cross slope of 1 percent.

3.02 SUBGRADE PREPARATION

- A. Comply with Caltrans Standard Specifications Section 301-1 – "Sub-grade Preparation."

3.03 BASE COURSE INSTALLATION

- A. Class II permeable base rock at 90% compaction.

3.04 GRANITECRETE INSTALLATION INSTRUCTIONS - "WET" METHOD – USING A VOLUMETRIC TRUCK

- A. The use of an approved volumetric truck is required – see GraniteCrete website for approved volumetric truck companies.
- 1) Compaction: Walking on the area is perfectly acceptable; initial compaction can be performed by walking on the edges and corners. Rake or grade area with the flat side of a landscape or asphalt rake (do not use tang side,) until the GraniteCrete is one inch above finish grade.
 - 2) Once initial compaction has been completed, hand tamp (with a 10” hand tamp) around benches, sign posts, corners, boulders, et cetera. Pay particular attention to corners and edges to ensure tight compaction.
 - 3) Make several passes with a 36” lawn roller in static position. Compact until there are no visible marks from compaction. Hand tamp out any imperfections with a 6” wooden masonry float. Pay particular attention to ensure accuracy in grading.
 - 4) Make sure to keep your 10” hand tamp, lawn roller, and wooden floats clean at all times. Fill in any divots with fresh, loose material (removing any larger stone) and hand tamp with the wooden floats to match the existing finish.
 - 5) When laying GraniteCrete in batches, be sure to use the cold joint method below to ensure a blemish-free installation.
 - 6) Finishing: If desired, lightly sweep the finished surface in a perpendicular pattern with a medium-bristled push broom. Then make several passes with a lawn roller until the desired surface texture is achieved. Remove spoils off the surface.
 - 7) DO NOT ALLOW GRANITECRETE TO DRY DURING INSTALLATION. MIST LIGHTLY WITH A HOSE END SPRAY HEAD OR GARDEN SPRAYER AS NECESSARY OR COVER WITH A PLASTIC TARP.
- B. A finish layer of decomposed granite shall be spread over the entire surface to finish grades. The entire surface shall then be moistened to provide full depth moisture penetration. While the decomposed granite is still thoroughly moist, roll the material with suitable compaction equipment to provide at least 95 percent relative compaction. Surface shall be filled as required and again rolled to produce a 4-inch-thick uniform plane with proper drainage and slopes. Compaction with a rammer jumping jack or vibratory roller is not permitted.
- C. Decomposed granite shall be installed at a maximum of 2-inch compacted lift at a time. A 4-inch-thick decomposed granite surface required two lifts to complete the installation.

3.04. INSTALLATION OF POST-INSTALLATION STABILIZER

A. Installation Condition:

1. Do not install crushed aggregate blended with GraniteCrete admixture surfacing when the sub-base is wet at saturated field capacity.
2. Do not install GraniteCrete materials during rainy conditions or below 40 degrees Fahrenheit.

3.05 PROTECTION

- A. Protect the Work of this section until Substantial Completion.

3.06 CLEANUP

- A. Remove rubbish, debris, and waste materials and legally dispose of off the Project site.

END OF SECTION

GraniteCrete Specification Guide For Pedestrian Applications

Revision Date: January 31, 2025

CRUSHED AGGREGATE BLENDED WITH GRANITECRETE ADMIXTURE SURFACING

FOR MORE INFORMATION: Contact GraniteCrete Incorporated, www.granitecrete.com, email info@granitecrete.com, or call (800) 670-0849.

PART 1: General

1.1 SUMMARY

- A.** Section Includes: Crushed aggregate blended with GraniteCrete admixture surfacing
- B.** Related Work:
 - 1. Section – Earthwork 31 22 00: Grading
 - 2. Section – Earthwork 31 23 16: Excavation and Fill for Paving
 - 3. Section – Earthwork 31 23 26: Base Course

1.2 REFERENCES

- A.** ASTM C136-Sieve Analysis of Fine and Coarse Aggregates
- B.** ASTM D2419- Sand Equivalent Value of Soils and Fine Aggregates
- C.** Caltrans Standard Specifications for Public Works Construction
- D.** RIS-Redwood Inspection Services Grades of California Redwood

1.3 SEQUENCING

- A.** Do not install work specified in this section prior to acceptance of earth moving. Coordinate work specified in this section with work specified in other sections to minimize cutting of - and operation of - heavy equipment over newly-installed surfacing.
- B.** Submit in accordance with Project Submittal Procedures
 - a. Manufacturer's product data sheet and installation instructions indicating that product complies with specifications for:

- i. Crushed aggregate blended with GraniteCrete admixture surfacing
- b. Submit a quart jar size sample of crushed aggregate with admixture in color specified [in manufacturer's standard colors for selection].

1.4 QUALITY ASSURANCE/FIELD QUALITY CONTROL

A. GraniteCrete installation differs from the installation of concrete or traditional decomposed granite binders.

1. **A GraniteCrete representative must be on-site at the beginning of any installation to train the crew in the procedures for achieving an excellent GraniteCrete installation.** Or, GraniteCrete must sign off on the installer (in writing) prior to installation.
2. GraniteCrete offers paid consulting services in eight-hour blocks + travel.
3. The installation instructions in this Specification Guide are meant as a guide for bidding purposes and will be superseded by the approved Submittal of installation instructions from GraniteCrete, Inc., and any field direction provided by the company representative.
4. GraniteCrete, Inc. does not offer a warranty on any installation - even if completed by an Approved Installer. GraniteCrete only warrants the contents of the Admix bag.

B. Porous Base Rock Testing:

1. Testing shall occur during installation for sieve conformance. Results shall be submitted prior to completion of the stone base installation.
 - a. The stone field area shall have a permeable rate no less than 14" per hour. The testing shall be per Din 8035 Part 7, ASTM 2434 (constant head), or ASTM F2898 testing methods.
 - b. In addition to the lab testing, after installation of any aggregate base cross-section, designed to conduct rainfall to the sub-soils and/or under-drain system, the finished aggregate base shall be tested, *in situ* for infiltration rate, using method ASTM F2898. The test shall be performed by a registered Geotechnical Engineer.
2. The Contractor is responsible to meet this performance specification, before proceeding with installation, and shall bear the cost of the on-site testing and the cost of any additional work necessary to achieve compliance with the specification.

3. All test results shall be logged and documented by the Owner's Technical Representative or Geotechnical Engineer. If at any time the processed stone base does not meet specifications, it shall be the Contractor's responsibility to restore, at his expense, the processed stone base to the required grade, cross-section and density.
4. After the contractor has independently confirmed compliance with all the above tolerances (planarity and elevation verified by a licensed surveyor and compaction, gradation, & permeability verified by Geotechnical Engineer, he shall notify the appropriate party and schedule a final inspection for approval. The contractor shall make available an orbital laser system to the Inspection Team for the inspection process.
5. The compaction rate for porous base rock should be 88%. The compaction rate for non-porous base rock should be 95%.

C. Standard Specifications: Shall mean the California Department of Transportation Standard Specifications, latest active edition.

1.5 MOCK-UP

- A.** Construct mockup of 4 square feet minimum of crushed aggregate blended with GraniteCrete admixture surfacing, at location approved the Owners Authorized Representative. Build mockup 7 days prior to installation. Intent of the mockup is to demonstrate surface finish, texture, color and standard of workmanship
- B.** Notify project Landscape Architect and Owner's Authorized Representative 7 days in advance of mockup construction.
- C.** Allow project Landscape Architect and Owner's Authorized Representative to view and obtain approval of mock-up before proceeding with rest of crushed aggregate blended with GraniteCrete admixture surfacing.
- D.** Remove mock-up after acceptance of work specified in this Section.

1.6 DELIVERY, STORAGE, AND HANDLING

- A.** Deliver all GraniteCrete Admixture bags or bulk materials in original, unopened packaging. Protect materials and aggregate from contamination with foreign matter. Store under a waterproof cover and protect from dampness.

1.7 FIELD CONDITIONS

- A. Do not install crushed aggregate blended with GraniteCrete admixture surfacing when the sub-base is wet at saturated field capacity.
- B. Do not install GraniteCrete materials during rainy conditions or below 40 degrees Fahrenheit.

PART 2: PRODUCTS

2.1 CRUSHED AGGREGATE BLENDED WITH GRANITECRETE ADMIXTURE SURFACING MATERIALS.

A. Acceptance Manufacturer:

- 1. Specification is based on products by GraniteCrete, Inc.
419 Webster Street, Suite 202
Monterey, CA 93940
Phone: (800) 670-0849; Fax: (800) 670-0849
www.granitecrete.com

GraniteCrete admixture is an all-natural product and does not contain oils, polymers, resins, or enzymes.

- 2. Substitutions: Not allowed.

B. Decomposed Granite (DG), crushed aggregate.

- 1. DG shall have a 3/8" maximum gradation, produced from naturally friable rock/granite with enough fines to produce a smooth walking surface. Materials should be free from clay lumps, organic matter, and deleterious material. Blends of coarse sand and rock dust are not acceptable.
- 2. Use a single supply source for the entire quantity required.
- 3. Gradation, in accordance with ASTM C136:
- 4. Color: Should have gold to yellow hues. To be selected by project Landscape Architect from manufacturer's standard colors.
- 5. Supplier: Southwest Boulder and Stone, Fallbrook, CA. - (760) 451-3333 or approved equal.

C. Aggregate binder: Provide GraniteCrete Admixture. Color: Natural Gold

2.2 BASE COURSE MATERIAL

- A. Class II Permeable Base Rock.
- B. Soft stone materials (i.e. sandstone, limestone and shale materials) are not suitable. Stone supplier shall certify that all supplied stone will be clean of this type of stone. All types of stone shall meet the following stability requirements.

TEST METHOD	CRITERIA
LA Abrasion (Calif. Test 211)	Not to exceed 40
Durability Index (Calif. Test 229)	Not less than 40

In addition, if stone stability to water and vehicles is in question, Owner has the right to perform additional testing to ensure material shall adhere to requirements of Caltrans Section 68, as well as additional applicable ASTM tests.

- C. All testing fees shall be paid for by the Contractor.
- D. Permeable Stone: Stone base materials shall be washed, 100% fractured, by mechanical means, with elongated characters on each individual particle larger than 1/4". Materials shall be devoid of mineral fines. All particles smaller than 1/4" shall be produced by manufactured means only. Rounded sands or aggregates are prohibited.
- E. Delivery Moisture Content: Processed stone shall contain 90% to 110% of the optimum moisture content to ensure that fines do not migrate in transit or during placement and to facilitate proper compaction. The contractor shall ensure that aggregate leaving the source plant meets this requirement. The contractor is required to apply water to the processed stone on site to attain and maintain this minimum moisture content.
- F. Aggregate or aggregate blends of permeable stone shall conform to the following gradation (**please note this is for base rock, not for GraniteCrete**):

SIEVE	Sieve Sizes Metric (mm)	Percent Passing by Weight* Intended Result	Range
1"	25.0	100	100
3/4"	19.0	100	90-100

3/8"	9.52	78	40-100
No. 4	4.75	36	25-40
No. 8	2.36	26	18-33
No. 30	0.600	11	5-15
No. 50	0.300	6	2-10
No. 200	0.075	2	0-5
Durability Index (CTM# 229)	40 min		
Sand Equivalent (CTM# 217)	70		
LA Rattler (CTM# 211)	500 Revs, less than or = 40%		

* AASHTO Test Method T-27

- G. Specs for 3/8" minus and 3/4" minus Crushed Aggregate Following ASTM D 1140-17: Crushed aggregate must be free from contaminants that would discolor or be deleterious to crushed aggregate blended with GraniteCrete admixture surfacing.

100% fractured on all sides with no rounded particles

Sieve 200 - Non-expansive Clay Fines - **not to exceed 18%**

The below test is for 3/8" minus stone, at approximately 90% compaction when tested.

Sieve Size	% Passing Sieve Ranges	
1/2"	100	100
3/8"	95	98
#4	85	90
#8	75	85
#16	55	70
#30	38	57
#50	24	33
#100	15	24
#200	9	18
#400	0	9

2.3 ACCESSORIES

- A. Water: Free from contaminants that would discolor or be deleterious to crushed aggregate blended with GraniteCrete admixture surfacing.

Installation: Do not use a vibratory plate to compact the GraniteCrete. Use a lawn roller filled with water to compact the GraniteCrete. It is highly recommended to use a volumetric truck for larger installations. If possible, screeding and the use of a paver is highly recommended.

- B. Concrete Header:

- 1. Dimensions: 6" x 6", with ¼" radius tooled edge on top sides.
 - 2. Finish: Light Broom.

PART 3: EXECUTION

3.1 EXAMINATION

- A. Examine grading and subsoil conditions. Do not proceed until conditions are acceptable per the architect's specifications.

3.2 PREPARATION

- A. Excavation: Excavate to depth required so edges of crushed aggregate blended with GraniteCrete admixture surfacing will match adjacent grades and have a maximum cross slope of 1 percent. Remove excavated soil from site.
- B. Sub-grade Preparation: Comply with Caltrans Standard Specifications Section 301-1 – "Sub-grade Preparation."
- C. Base Course Installation: Class II permeable base rock at 90% compaction.

3.3 INSTALLATION:

GRANITECRETE INSTALLATION – GENERAL

- A. Mixing method:
 - 1. Installations less than 500 square feet may be mixed on-site.
 - 2. Installations 500 square feet and over up to 3,000 square feet, must be

delivered pre-mixed to the site from a GraniteCrete Inc. approved pre-mix facility. Approved retailers and pre-mix facilities can be found on the company website www.granitecrete.com.

3. For installations over 3,000 square feet, it is required to use a volumetric truck.
4. The volumetric truck must be calibrated for the GraniteCrete mixture. Contact GraniteCrete, Inc. at info@granitecrete.com for a list of approved volumetric truck operators.

The following installation instructions have been developed to help ensure a blemish-free, high-quality installation. While GraniteCrete looks similar to concrete, the installation of GraniteCrete follows a different procedure. For best results, follow the instructions below carefully. For assistance, contact GraniteCrete, Inc. at info@granitecrete.com.

Installation Depth (also known as “lift”)

For **pedestrian applications**, GraniteCrete is installed as a 3-inch thick layer (lift) over a 4-inch subgrade of base rock. Compaction rates for all applications are 88%–92%.

Please note: GraniteCrete compacts approximately 25%, or ¼” per 1” of lift.

Measurements

An online calculator to assist you with estimating the amount of material needed to complete your project can be found on the GraniteCrete website here:

<https://www.granitecrete.com/paving-materials-estimator/>

Please note this is **only** an estimator and GraniteCrete, Inc is not responsible for the quantity of materials at the job-site.

GraniteCrete: Pedestrian Application - (3 bag mixture) One cubic yard of aggregate/decomposed granite and three (85 lbs.) sacks of GraniteCrete admixture combined covers 82 square feet at a 4-inch thickness. **Note:** Aggregate/decomposed granite should be 3/8” minus material and follow our sieve percentages in this Specification Guide within a +/- 5% range.

Class II Base Rock: Pedestrian Application - After final compaction, baserock should have a 4-inch depth.

Mixing Ratios

GraniteCrete: Pedestrian Application - (3 bag mixture) The ratio for pedestrian applications is 12.5:1 (12.5 units of decomposed granite to 1 unit of GraniteCrete, measured in volume). See the GraniteCrete Math Sheet for further details.

Installation Instructions - “Dry” Method

1. **Class II Base Rock:** Moisten and compact base rock on the entire installation area to an even depth of 4-inch. A vibratory plate can be used to compact the base rock; it should **not** be used to compact the GraniteCrete.
2. **GraniteCrete:** Wheelbarrow the prepared GraniteCrete/DG mixture to the installation site and place a layer of the mixture to one-half of the desired final lift. Be sure to spread the mixture out before proceeding to step 3; this will ensure the mixture is moistened and mixed thoroughly.
3. Moisten the material with a hose end trigger sprayer attachment, **avoiding puddling - oversaturation is detrimental and will negatively affect the integrity of the finished product.** Rake area lightly to evenly distribute water throughout the mix or "lift". Walking on the area is perfectly acceptable; initial compaction can be performed by walking on the edges and corners.
4. Add dry-mixed material as needed to get to your desired grade. Repeat step 3.
5. Proper moisture content can be checked by clenching your fist around the GraniteCrete, when the mixture just stays together and the color just starts to transfer to your hand, GraniteCrete is ready to compact.
6. **Compaction:** After proper moisture is achieved for compaction, hand tamp (with a 10" hand tamp) around benches, sign posts, corners, boulders, et cetera. Pay particular attention to corners and edges to ensure tight compaction.
7. Make several passes with a 36" lawn roller (filled with water). Compact until there are no visible marks from compaction. Hand tamp out any imperfections with a 6" wooden masonry float. **Pay particular attention to ensure accuracy in grading.**
8. Make sure to keep your 10" hand tamp, lawn roller, and wooden floats clean at all times. Fill in any divots with fresh, loose material (removing any larger stone)

and hand tamp with the wooden floats to match the existing finish.

9. When laying GraniteCrete in batches, be sure to use the **cold joint** method below to ensure a blemish-free installation.
10. **Finishing:** If desired, lightly sweep the finished surface in a perpendicular pattern with a medium-bristled push broom. Then make several passes with the lawn roller until the desired surface texture is achieved. Make sure to keep the drum clean at all times. Remove spoils off the surface.
11. **DO NOT ALLOW GRANITECRETE TO DRY DURING INSTALLATION. MIST LIGHTLY WITH A HOSE END SPRAY HEAD AS NECESSARY OR COVER WITH A PLASTIC TARP.**
12. The final step for a GraniteCrete installation is a dampening with water of all newly-installed and compacted GraniteCrete materials. Using a shower head/spray hose attachment, moisten the entire newly-installed GraniteCrete area - **avoid puddling**. For best results, moisten all newly-installed GraniteCrete paving a second time the following 1 to 5 days, as practical. **Slow curing of GraniteCrete is important to avoid cracking.**

Make sure there is no direct application of uncontrolled water (e.g. irrigation or sprinkler water) prior to final curing.

The following information is applicable to BOTH installation methods.

You may walk on GraniteCrete immediately after installation. However, like concrete, GraniteCrete gets stronger with time. Ideally, traffic should stay off the newly-installed GraniteCrete areas for a minimum of 48 hours.

Newly installed GraniteCrete paving surfaces are fully cured in 28 days. At that time, the entire surface should be blown or swept off to eliminate loose surface materials. Minor cracking may take place. However, over time, the aggregate fines will fill in the minor cracks and they should disappear. Occasional blowing off of the surface will help to minimize loose surface materials.

Cold Joint Methods

Cold joints can be used at the end of the work day.

Method One:

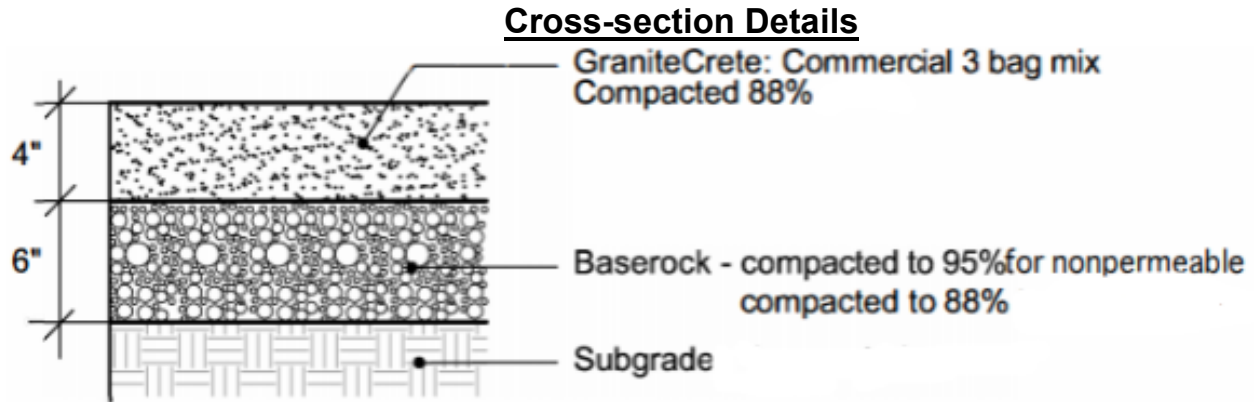
1. "Between pours," stop at an area that makes the joint location look intentional. Take a chalk snap line just back from loose GraniteCrete into the compacted area and create a chalk line. Use either a masonry blade - or a square-nose shovel - and cut a straight line across the installation.
2. Continue with installation: Dampen the prior installation area. Place newly mixed GraniteCrete into the area, being careful not to overlap existing compacted material. Place a three foot length of 2"x4" carefully along the edge of the new pour and compact by hitting/tapping the board with a single jack. Then, take a medium-bristled push broom and very lightly "feather" the two pours together.

Method Two:

1. Place a 2"x4" or 2"x6" piece of wood across the installation, loosely stake it, and finish compacting the material. Leave the board in place overnight.
2. The next day, carefully lift the wood up and away from the installed GraniteCrete. Continue the installation process as per step 2 under Method One, making sure to dampen the prior installation area.

Method Three: (Suggested for large open edges at the end of the work day)

1. Install steel edging at a location that looks "intentional" and aesthetically "makes sense." Permanently install using the stakes provided. Completely finish the first day's work.
2. The next day, simply continue with the installation. Make sure to dampen the prior installation area first. Leave the edging in place. Again, being careful not to leave any new material on the previously installed GraniteCrete.



GraniteCrete Paving - Commercial. Non-Vehicular Traffic

Recommended Equipment

Tools	Materials
(3) Rounded point or flat edge shovels for moving product	GraniteCrete Admixture bags (85 lbs.)
6 cubic foot cement mixer for mixing small installations	3/8" minus aggregate/ decomposed granite
Wheelbarrow for moving material	Class II Base Rock or Class II Permeable Base
8" or 10" hand-tamps for compacting edges and corners, step back fills, and small areas	Curbing or Header Board materials (if desired)
Hose with a shower spray nozzle for moistening dry product	Water source
Landscape and asphalt rake with flat edge for finish grading	
Heavy lawn roller filled with water to compact	
Medium bristled push broom for finishing	
(2-3) 6"-9" wooden masonry float for finishing	

(1) 6"-9" steel float for cleaning hand tamp and roller	
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Please refer to our website for further information:

<https://www.granitecrete.com/installation/>

3.4 Important Notes:

- A.** Do not allow GraniteCrete to dry during installation. Mist lightly with a hose end spray head as necessary - **avoid puddling** - or cover with plastic tarp.
- B.** Non-compacted - or poorly-compacted - GraniteCrete top layer will result in loose and pebbled materials. Edge and corner compaction may require special attention with a hand tamp during installation.
- C.** Non-compacted - or poorly-compacted - base rock may result in failure of the top layer of GraniteCrete.
- D.** Squeeze the mixture in your fist and open your hand. When the color has just started to transfer onto your hand and the mixture just begins to stay together in a clump, it's ready for installation. Excessive moisture level may result in "sticky" materials complicating the quality of the finish surface or proper compaction - if you squeeze the mixture and water oozes out, it is too damp. If the material is too wet, it may be placed on the bottom of the installation, with material that has a better moisture content on top.
- E.** Aggregate/decomposed granite materials should meet the sieve specifications in this Specification Guide and be free of contaminants.
- F.** Surface shall follow the overall contours of the landscape. Flat areas shall be sloped for drainage. Slope 1.0% percent minimum to drain away from structures.
- G.** Please Note: 3/8" minus aggregate comes in different colors. GraniteCrete™ samples reflect the use of a Golden Granite decomposed aggregates. Mock-ups using your local aggregate source is strongly suggested.
- H.** Saw cut expansion joints every 5' in narrower paths, every 12' in wider paths, and at every engineered stress area. Wait 48 hours before cutting.
- I.** Cover finished surface to achieve maximum curing period. See Section 3.5.
- J.** Minimum Compacted Thickness (See Section Details):

1. Pedestrian Access : 3 inches.

- K.** Completed, finished surface shall be of consistent quality and free of deleterious materials such as organic materials, nails, stones, and loose material. Surface shall not have depressions or humps greater than 1/4 inch in ten feet. Cold joints, if any, should be inconspicuous.
- L. Pay particular attention to ensure accuracy in grading.** If grading issues occur during installation, they need to be addressed right away. You cannot wait until the end to fix grading issues.

3.5 CURING PERIOD / PROTECTION

- A.** Do not allow traffic on crushed aggregate blended with GraniteCrete admixture surfacing for a minimum of 72 hours after placement or until compacted crushed aggregate blended with GraniteCrete admixture surfacing has fully cured. If the temperature is below 50 degrees Fahrenheit, extend this to 5 days. If rain is in the forecast during the curing period, cover the product with plastic.
- A.** Protect crushed aggregate blended with GraniteCrete admixture surfacing from damage until project completion. Repair damaged areas to match specified requirements.

3.6 MAINTENANCE & REPAIRS

- A.** Follow manufacturer's recommendations.
- B.** Maintenance: Depending on the end user's desired finish surface, maintenance may require occasional blowing off or brooming of paved surface - DO NOT use a pressure washer to clean GraniteCrete. Depending on quality of compaction at time of installation, a thin veneer of loose aggregate material is typical after the full 28 days cure period. If cracking appears in a GraniteCrete surface, broom loose aggregate "fines" into cracks and compact with a rubber mallet.
- C.** Repair: When repairing GraniteCrete it is important to use the original aggregate/decomposed granite and the original GraniteCrete Admixture color to match previously installed materials. If the paved surface has large areas of raveled material (loose aggregate/decomposed granite) the initial installation

may not have been properly compacted, or blended materials did not have optimum moisture content during installation. **GraniteCrete must not be allowed to dry prior to final compaction.** The following are suggestions for repair of raveled materials:

1. For large loose/raveled areas, a minimum of 2 inches of GraniteCrete can be saw-cut at agreed length, removed, and re-installed. Repeat the installation steps.
2. In areas that collapse/fail due to equipment weight, re-form and re-install with original materials as per specifications.
3. Minor Crack Repair - With Sand Mixture:
Use a fine mesh sand - typically sold as “playground sand” or “play sand.” Mix the sand and GraniteCrete together as though the sand is decomposed granite (use the same ratio as was used for the GraniteCrete installation). This will create a dry mix, similar to polymeric sand. Apply the sand mixture down into the crack using the appropriate tool (trowel, shovel, broom, et cetera). Fill the crack $\frac{3}{4}$ of the way to the top grade. Usually at the point post-installation that cracks begin to be seen, you will also see loose material on top. Sweep that loose material into the remaining $\frac{1}{4}$ top of the void. Try to not leave any sand mixture/patch material on the top of the installation - you want it as clean as possible; you can use a blower to help remove the sand mixture. Once the surface is clear of patch material, carefully wet the material. The cracks should virtually disappear.