

MASTER FACILITIES LEASE

This master facilities lease (“Master Facilities Lease”), dated as **November 13, 2013** (“Effective Date”), is made and entered into by and between **Taber Construction, Inc.** (“Developer”), a California company duly organized and existing under the laws of the State of California, as sublessor, and **Mt. Diablo Unified School District**, a school district duly organized and validly existing under the laws of the State of California, as sublessee (“District”) (together, the “Parties”).

RECITALS

WHEREAS, the District currently owns a parcel or parcels of land located at:

Ayers Elementary School	5120 MYRTLE DR	CONCORD	CA 94521
Bancroft Elementary School	2200 PARISH DR	WALNUT CREEK	CA 94596
Bel Air Elementary School	663 CANAL RD	BAY POINT	CA 94565
Cambridge Elementary School	1135 LACEY LN	CONCORD	CA 94520
Clayton Valley Charter High School	1101 ALBERTA WAY	CONCORD	CA 94521
College Park High School	201 VIKING DR	PLEASANT HILL	CA 94523
Concord High School	4200 CONCORD BLVD	CONCORD	CA 94521
Delta View Elementary School	2916 RIO VERDE	BAY POINT	CA 94565
Diablo View Middle School	300 DIABLO VIEW LN	CLAYTON	CA 94517
Eagle Peak Montessori School	800 HUTCHINSON RD	WALNUT CREEK	CA 94598
El Dorado Middle School	1750 WEST ST	CONCORD	CA 94521
El Monte Elementary School	1400 DINA DR	CONCORD	CA 94518
Fair Oaks Elementary School	2400 LISA LN	PLEASANT HILL	CA 94523
Foothill Middle School	2775 CEDRO LN	WALNUT CREEK	CA 94598
Glenbrook Middle School	2351 OLIVERA RD	CONCORD	CA 94520
Gregory Gardens Elementary School	1 CORRITONE CT	PLEASANT HILL	CA 94523
Hidden Valley Elementary School	500 GLACIER DR	MARTINEZ	CA 94553
Highlands Elementary School	1326 PENNSYLVANIA BLVD	CONCORD	CA 94521
Holbrook Elementary School	3333 RONALD WAY	CONCORD	CA 94519
Loma Vista Adult Center	1266 SAN CARLOS AVE	CONCORD	CA 94518
Meadow Homes Elementary School	1371 DETROIT AVE	CONCORD	CA 94518
Monte Gardens Elementary School	3841 LARKSPUR DR	CONCORD	CA 94519
Mountain View Elementary School	1705 THORNWOOD DR	CONCORD	CA 94521
Mt Diablo Elementary School	5880 MT ZION DR	CLAYTON	CA 94517
Mt Diablo High School	2450 GRANT ST	CONCORD	CA 94520
Northgate High School	425 CASTLE ROCK RD	WALNUT CREEK	CA 94598
Oak Grove Middle School	2050 MINERT RD	CONCORD	CA 94518
Olympic High School	2730 SALVIO ST	CONCORD	CA 94519
Pine Hollow Middle School	5522 PINE HOLLOW RD	CONCORD	CA 94521
Pleasant Hill Elementary School	2097 OAK PARK BLVD	PLEASANT HILL	CA 94523
Pleasant Hill Middle School	ONE SANTA BARBARA RD	PLEASANT HILL	CA 94523
Rio Vista Elementary School	611 PACIFICA AVE	BAY POINT	CA 94565

Riverview Middle School	205 PACIFICA AVE	BAY POINT	CA 94565
Sequoia Elementary School	277 BOYD RD	PLEASANT HILL	CA 94523
Sequoia Middle School	265 BOYD RD	PLEASANT HILL	CA 94523
Shadelands Special Ed School	1860 SILVERWOOD DR	CONCORD	CA 94519
Shore Acres Elementary School	351 MARINA RD	BAY POINT	CA 94565
Silverwood Elementary School	1649 CLAYCORD AVE	CONCORD	CA 94521
Strandwood Elementary School	416 GLADYS DR	PLEASANT HILL	CA 94523
Sun Terrace Elementary School	2448 FLOYD LN	CONCORD	CA 94520
Sunrise Special Ed School	1861 Silverwood Drive	CONCORD	CA 94519
Valhalla Elementary School	530 KIKI DR	PLEASANT HILL	CA 94523
Valle Verde Elementary School	3275 PEACHWILLOW LN	WALNUT CREEK	CA 94598
Valley View Middle School	181 VIKING DR	PLEASANT HILL	CA 94523
Walnut Acres Elementary School	180 CEREZO DR	WALNUT CREEK	CA 94596
Westwood Elementary School	1748 WEST ST	CONCORD	CA 94521
Willow Creek Center	1026 MOHR LN	CONCORD	CA 94518
Woodside Elementary School	761 SAN SIMEON DR	CONCORD	CA 94518
Wren Avenue Elementary School	3339 WREN AVE	CONCORD	CA 94519
Ygnacio Valley Elementary School	2217 CHALOMAR RD	CONCORD	CA 94518
Ygnacio Valley High School	755 OAK GROVE RD	CONCORD	CA 94518
Alliance	2730 SALVIO ST	CONCORD	CA 94519
Crossroads NSHS	2730 SALVIO ST	CONCORD	CA 94519
Gateway NSHS	205 PACIFICA AVE	BAY POINT	CA 94565
Nueva Vista NSHS	1101 ALBERTA WAY	CONCORD	CA 94521
Prospect NSHS	ONE SANTA BARBARA RD	PLEASANT HILL	CA 94523
Summit NSHS	4200 CONCORD BLVD	CONCORD	CA 94521
Administration- Dent Center	1936 CARLOTTA DR	CONCORD	CA 94519
Diablo Day School	1026 MOHR LN	CONCORD	CA 94518
Maintenance and Operations	1480 GASOLINE ALLEY	CONCORD	CA 94520
Pleasant Hill Ed Center	ONE SANTA BARBARA RD	PLEASANT HILL	CA 94523
Purchasing/Warehouse	2326 BISSO LANE	CONCORD	CA 94520
Transportation	1490 GASOLINE ALLEY	CONCORD	CA 94520

and as more particularly described in **Exhibits A-1 through A-53** attached hereto and incorporated herein by this reference (“School Sites”); and

WHEREAS, the District desires to provide for **Measure-C - District wide Security System Upgrades**. That work will include related work as further indicated in **Exhibits “B-1” through “B-53”** (the “Project”);

WHEREAS, the District has determined that a portion of the School Sites are adequate to accommodate the Project, as more particularly described in **Exhibits “B-1” through “B-53”** (“Project Sites”) attached hereto and incorporated herein by reference; and

WHEREAS, District has retained Salas O’Brian, Inc.(“Architect”) to prepare plans and specifications for the Project (“Plans and Specifications”); and

WHEREAS, District and Developer have executed a master site lease at the same time as this Master Facilities Lease whereby the District is leasing the Project Sites to the Developer (“Master Site Lease”); and

WHEREAS, Developer represents that it has the expertise and experience to perform the services set forth in this Master Facilities Lease; and

WHEREAS, the District is authorized under Section 17406 of the Education Code of the State of California to lease the Project Sites to Developer and to have Developer develop and construct the Project on the Project Sites and to lease back to the District the Project Sites and the Project, and has duly authorized the execution and delivery of this Master Facilities Lease; and

WHEREAS, Developer is authorized to lease the Project Sites as lessee and to develop the Project and to have the Project constructed on the Project Sites and to lease the Project and the Project Sites back to the District, and has duly authorized the execution and delivery of this Master Facilities Lease; and

WHEREAS, the Board of Education of the District (the “Board”) has determined that it is in the best interests of the District and for the common benefit of the citizens residing in the District to construct the Project by leasing the Project Sites to Developer and by simultaneously entering into this Master Facilities Lease under which the District will lease back the Project Sites and the Project from Developer and if necessary, make Lease Payments as indicated in **Exhibit “C”** attached hereto and incorporated herein by reference); and

WHEREAS, the Parties have performed all acts, conditions and things required by law to exist, to have happened and to have been performed precedent to and in connection with the execution and entering into of this Master Facilities Lease and all those conditions precedent do exist, have happened and have been performed in regular and due time, form and manner as required by law, and the Parties hereto are now duly authorized to execute and enter into this Master Facilities Lease; and

WHEREAS, the District further acknowledges and agrees that it has entered into the Master Site Lease and the Master Facilities Lease pursuant to Education Code Section 17406 as the best available and most expeditious means for the District to satisfy its substantial need for the facilities to be provided by the Project and to accommodate and educate District students and to utilize its facilities proceeds expeditiously.

NOW, THEREFORE, in consideration of the above recitals and of the mutual covenants hereinafter contained, the Parties hereto do hereby agree as follows:

1. Definitions. In addition to the terms and entities defined above or subsequent provisions defined herein, and unless the context otherwise requires, the terms defined in this section shall, for all purposes of this Master Facilities Lease, have the meanings herein specified.

1.1. “Developer” or “Lessor” means **Taber Construction, Inc.** a California Corporation, organized and existing under the laws of the State of California, and its successors and assigns.

1.2. “Developer’s Representative” means the Managing Member of Developer, or any person authorized to act on behalf of Developer under or with respect to this Master Facilities Lease.

1.3. “Contract Documents” are defined in **Exhibit D** to this Master Facilities Lease.

1.4. “District” or “Lessee” means the **Mt. Diablo Unified School District**, a school district duly organized and existing under the laws of the State of California.

1.5. “District Representative” means the Superintendent of the District, or any other person authorized by the Board of Trustees of the District to act on behalf of the District under or with respect to this Master Facilities Lease.

1.6. “Permitted Encumbrances” means, as of any particular time:

- 1.6.1. Liens for general and valorem taxes and assessments, if any, not then delinquent, or which the District may permit to remain unpaid;
- 1.6.2. The Project Site leases;
- 1.6.3. This Master Facilities Lease,
- 1.6.4. Easements, rights of way, mineral rights, drilling rights and other rights, reservations, covenants, conditions or restrictions which exist of record as of the date of this Master Facilities Lease.
- 1.6.5. Easements, rights of way, mineral rights, drilling rights and other rights, reservations, covenants, conditions or restrictions established following the date of recordation of this Master Facilities Lease and to which Developer and the District consent in writing which will not impair or impede the operation of the Project Sites; and

2. Exhibits. The following Exhibits are attached to and by reference incorporated and made a part of this Master Facilities Lease:

2.1. Exhibits A-1 through A-53: Descriptions of the School Sites: The descriptions of the real property constituting the School Sites.

2.2. Exhibits B-1 through B-53: Descriptions of The Project Sites and Descriptions of the Projects: The description of the Project Sites and the Project.

2.3. Exhibit C: Guaranteed Project Cost and Other Project Cost, Funding, and Payment Provisions for each of the leased Project Sites: A detailed description of the Guaranteed Project Cost and the provisions related to the payment of that amount to the Developer.

2.4. Exhibit D: General Construction Provisions: The provisions generally describing the Project’s construction.

2.5. Exhibit E: Memorandum of Commencement Date for the Facilities Lease for each of the leased Project Sites: The Memorandum which will memorialize the commencement and expiration dates of the Term.

2.6. Exhibits F-1: Construction Schedule(s) for each of the Project Sites.

2.7. Exhibits G-1: Schedule(s) of Values for each of the Project Sites.

2.8. Exhibit H: Agreement For Preliminary Services

2.9. Exhibit I – Certificates and Bonds to Lease-Leaseback Documents and Division 1 Documents to Lease-Leaseback Documents

2.10. Exhibit J – Plans, Technical Specifications, and Drawings

2.11. Exhibit K – Revisions to Contract Documents

3. Lease of Project and Project Site.

3.1. Developer hereby leases the Project and the Project Sites to the District, and the District hereby leases said Project and Project Sites from Developer upon the terms and conditions set forth in this Master Facilities Lease.

3.2. The leasing by Developer to the District of the Project Sites shall not affect or result in a merger of the District's leasehold estate pursuant to this Master Facilities Lease and its fee estate as lessor under the Master Site Lease. Developer shall continue to have and hold a leasehold estate in the Project Sites pursuant to the Master Site Lease throughout the term thereof and the term of this Master Facilities Lease.

3.3. As to the Project Sites, this Master Facilities Lease shall be deemed and constitute a sublease.

3.4. Occupied School Site. The Developer acknowledges that portions the Project Site shall, at all times, be occupied by the District as an operating school. The Parties have agreed to a plan and process whereby the Developer's activities shall be kept separate from the operating school even though the operating school is within the Project site. The specifics of the plan and process are as indicated in **Exhibit K**.

3.5. Work During Instructional Time. Developer affirms that Work may be performed during ongoing instruction in existing facilities. If so, Developer agrees to cooperate to the best of its ability to minimize any disruption to the School Site up to, and including, rescheduling specific work activities, at no additional cost to the District. Work performed during instructional time shall occur between the hours of 3 p.m. and 10:00 p.m. up until and including June 14, 2013. If Developer works after the hour of 10:00 p.m. the Developer shall provide the District with 48-hour notification in writing and shall incur a cost of \$45.00 per hour for an on-site custodian. After June 14, 2013 the contractor may resume work during normal business hours up until August 19, 2013 when hours of work shall return to instructional time frames.

3.6. No Work During Student Testing. Developer shall, at no additional cost to **the District** and at the District's request, coordinate its Work to not disturb District students including, without limitation, not performing any Work when students at the School Site are taking State-required tests. Refer to the testing schedule as indicated in **Exhibit K**.

4. Term.

4.1. Master Facilities Lease is Legally Binding. This Master Facilities Lease is legally binding on the Parties upon execution by the Parties and the District Board's approval of this Master Facilities Lease. The **Term** of this Master Facilities Lease and each of the Project Site Leases for the purposes of District's obligation to make Lease Payments shall commence on the earlier of the following two (2) events ("Commencement Date") and shall terminate twelve (13) months after the Commencement Date (the "Term"):

4.1.1. The date the District takes beneficial occupancy of the Project Site; or

4.1.2. The date of Project Completion, as defined in **Exhibit "D"** to this Master Facilities Lease.

4.2. On the Commencement Date, the Parties shall execute the Memorandum of Commencement attached hereto as **Exhibit E** to memorialize the commencement and expiration dates of the Term. Notwithstanding this Term, the Parties hereby acknowledge that each has obligations, duties, and rights under this Master Facilities Lease that exist upon execution of this Master Facilities Lease and prior to the beginning of the Term.

4.3. The Term may be extended or shortened upon the occurrence of the earliest of any of the following events, which shall constitute the end of the Term:

- 4.3.1. An Event of Default by District as defined herein and Developer's election to terminate this Master Facilities Lease as permitted herein, or
- 4.3.2. An Event of Default by Developer as defined herein and District's election to terminate this Master Facilities Lease as permitted herein, or
- 4.3.3. Consummation of the District's purchase option pursuant to the Guaranteed Project Cost and Other Project Cost, Funding, and Payment Provisions indicated in **Exhibit C** ("Guaranteed Project Cost Provisions").
- 4.3.4. A third-party taking of the Project under Eminent Domain, only if the Term is ended as indicated more specifically herein.
- 4.3.5. Damage or destruction of the Project, only if the Term is ended as indicated more specifically herein.

5. Payment. In consideration for the lease of the Project Site by the Developer back to the District and for other good and valuable consideration, the District shall make the Tenant Improvements Payments and Lease Payments pursuant to the Guaranteed Project Cost Provisions indicated in **Exhibit C**.

6. Termination; Lease Terminable Only As Set Forth Herein.

6.1. Except as otherwise expressly provided in this Master Facilities Lease, this Master Facilities Lease shall not terminate, nor shall District have any right to terminate this Master Facilities Lease or be entitled to the abatement of any all necessary payments pursuant to the Guaranteed Project Cost Provisions indicated in **Exhibit C** or any reduction thereof. The obligations hereunder of District shall not be otherwise affected by reason of any damage to or destruction of all or any part of the Project; the taking of the Project or any portion thereof by condemnation or otherwise; the prohibition, limitation or restriction of District's use of the Project; the interference with such use by any private person or Developer; the District's acquisition of the ownership of the Project (other than pursuant to an express provision of this Facilities Lease); any present or future law to the contrary notwithstanding. It is the intention of the Parties hereto that all necessary payments pursuant to the Guaranteed Project Cost Provisions indicated in **Exhibit C** shall continue to be payable in all events, and the obligations of the District hereunder shall continue unaffected unless the requirement to pay or perform the same shall be terminated or modified pursuant to an express provision of this Master Facilities Lease.

6.2. Nothing contained herein shall be deemed a waiver by the District of any rights that it may have to bring a separate action with respect to any Event of Default by Developer hereunder or under any other agreement to recover the costs and expenses associated with that action. The District covenants and agrees that it will remain obligated under this Master Facilities Lease in accordance with its terms.

6.3. Following Project Completion, that the District will not take any action to terminate, rescind or avoid this Master Facilities Lease, notwithstanding the bankruptcy, insolvency, reorganization, composition, readjustment, liquidation, dissolution, winding-up or other proceeding affecting Developer or any assignee of Developer in any such proceeding, and notwithstanding any action with respect to this Master Facilities Lease which may be taken by any trustee or receiver of Developer or of any assignee of Developer in any such proceeding or by any court in any such proceeding. Following Project Completion, except as otherwise expressly provided in this Master Facilities Lease, District waives all rights now or hereafter conferred by law to quit, terminate or surrender this Master Facilities Lease or the Project or any part thereof.

6.4. District acknowledges that Developer may assign an interest in some or all of the necessary payments pursuant to the Guaranteed Project Cost Provisions indicated in **Exhibit C** to a lender in order to obtain financing for the cost of constructing the Project and that the lender may rely on the foregoing covenants and provisions in connection with such financing.

6.5. The District in its sole discretion may terminate for convenience this Master Facilities Lease upon three (3) days written notice to the Developer. In case of a termination for convenience, the Developer shall have no claims against the District except the actual portion of the Guaranteed Project Cost expended for labor, materials, and services performed that is unpaid and can be documented through timesheets, invoices, receipts, or otherwise.

7. Title.

7.1. During the Term of this Master Facilities Lease, the District shall hold fee title to the School Site, including the Project Site, and nothing in this Master Facilities Lease or the Site Lease shall change, in any way, the District's ownership interest.

7.2. During the Term of this Master Facilities Lease, Developer shall have a leasehold interest in the Project Site pursuant to the Site Lease.

7.3. During the Term of this Master Facilities Lease, the Developer shall hold title to the Project improvements provided by Developer which comprise fixtures, repairs, replacements or modifications thereto.

7.4. If the District exercises its Purchase Option pursuant the Guaranteed Project Cost Provisions indicated in **Exhibit C** or if District makes all necessary payments under the Guaranteed Project Cost Provisions indicated in **Exhibit C**, all right, title and interest of Developer, its assigns and successors in interest in and to the Project and the Project Site shall be transferred to and vested in the District at the end of the Term. Title shall be transferred to and vested in the District hereunder without the necessity for any further instrument of transfer; provided, however, that Developer agrees to execute any instrument requested by District to memorialize the termination of this Master Facilities Lease and transfer of title to the Project.

8. Quiet Enjoyment. Upon District's possession of the Project, Developer shall thereafter provide the District with quiet use and enjoyment of the Project, and the District shall during the Term peaceably and quietly have and hold and enjoy the Project, without suit, trouble or hindrance from Developer, except as otherwise may be set forth in this Master Facilities Lease. Developer will, at the request of the District and at Developer's cost, join in any legal action in which the District asserts its right to such possession and enjoyment to the extent Developer may lawfully do so. Notwithstanding the foregoing, Developer shall have the right to inspect the Project and the Project Site as provided herein.

9. Representations of the District. The District represents, covenants and warrants to the Developer as follows:

9.1. Due Organization and Existence. The District is a school district, duly organized and existing under the Constitution and laws of the State of California.

9.2. Authorization. The District has the full power and authority to enter into, to execute and to deliver this Master Facilities Lease, and to perform all of its duties and obligations hereunder, and has duly authorized the execution of this Master Facilities Lease.

9.3. No Violations. Neither the execution and delivery of this Master Facilities Lease nor the Site Lease, nor the fulfillment of or compliance with the terms and conditions hereof or thereof, nor the consummation

of the transactions contemplated hereby or thereby, conflicts with or results in a breach of the terms, conditions or provisions of any restriction or any agreement or instrument to which the District is now a party or by which the District is bound, or constitutes a default under any of the foregoing, or results in the creation or imposition of any lien, charge or encumbrance whatsoever upon any of the property or assets of the District, or upon the Project Site, except Permitted Encumbrances

9.4. CEQA Compliance. The District has complied with all requirements imposed upon it by the California Environmental Quality Act (Public Resource Code Section 21000 *et seq.* (“CEQA”) in connection with the Project, and no further environmental review of the project is necessary pursuant to CEQA before the construction of the Project may commence. Developer shall comply will all applicable mitigation measures, if any, adopted by any public agency with respect to this Project pursuant to the California Environmental Quality Act. (Public Resources Code section 21000 et. seq.).

9.5. No Litigation. Except for a validation action related to this transaction that the District may file, there is no pending or, to the knowledge of District, threatened action or proceeding before any court or federal, state, municipal, or other government authority or administrative agency which will materially adversely affect the ability of District to perform its obligations under this Master Facilities Lease.

9.6. Condemnation Proceedings.

9.6.1. District covenants and agrees, but only to the extent that it may lawfully do so, that so long as this Master Facilities Lease remains in effect, the District will not seek to exercise the power of eminent domain with respect to the Project so as to cause a full or partial termination of this Master Facilities Lease.

9.6.2. If for any reason the foregoing covenant is determined to be unenforceable or in some way invalid, or if District should fail or refuse to abide by such covenant, then, to the extent it may lawfully do so, District agrees that the financial interest of Developer shall be as indicated in Section 6.1 of this Master Facilities Lease.

10. Representations of the Developer. The Developer represents, covenants and warrants to the District as follows:

10.1. Due Organization and Existence. The Developer is a California corporation licensed to provide such services in the state of California, duly organized and existing under the laws of the State of California, has the power to enter into this Master Facilities Lease and the Site Lease; is possessed of full power to lease, lease back, and hold real and personal property and has duly authorized the execution and delivery of all of the aforesaid agreements.

10.2. Authorization. Developer has the full power and authority to enter into, to execute and to deliver this Master Facilities Lease, and to perform all of its duties and obligations hereunder, and has duly authorized the execution of this Master Facilities Lease.

10.3. No Violations. Neither the execution and delivery of this Master Facilities Lease and the Master Site Lease, nor the fulfillment of or compliance with the terms and conditions hereof or thereof, nor the consummation of the transactions contemplated hereby or thereby, conflicts with or results in a breach of the terms, conditions or provisions of any restriction or any agreement or instrument to which Developer is now a party or by which Developer is bound, or constitutes a default under any of the foregoing, or results in the creation or imposition of any lien, charge or encumbrance whatsoever upon any of the property or assets of Developer, or upon the Project Sites, except Permitted Encumbrances.

10.4. No Bankruptcy. Developer is not now nor has it ever been in bankruptcy or receivership.

10.5. No Litigation. There is no pending or, to the knowledge of Developer, threatened action or proceeding before any court or administrative agency which will materially adversely affect the ability of Developer to perform its obligations under this Master Facilities Lease.

10.6. No Encumbrances. Developer shall not pledge any District payments of any kind, related to the Master Site Lease, this Master Facilities Lease, or in any way derived from the Project Sites, and shall not mortgage or encumber the Project Sites, except as may be specifically permitted pursuant to the provisions of this Master Facilities Lease related to Developer's financing the construction of the project.

10.7. Continued Existence. Developer shall not voluntarily commence any act intended to dissolve or terminate the legal existence of Developer, at or before the latest of the following:

10.7.1. Eighteen (18) months following Project Completion,

10.7.2. After dismissal and final resolution of any and all disputes between the Parties and/or any third-party claims related, in any way, to the Project,

Developer shall give District sixty (60) days written notice prior to dissolving or terminating the legal existence of Developer.

11. Construction of Project

11.1. Project Site Conditions and Contract Documents. Developer acknowledges that it has and will perform certain special services in preparation to construct the Project.

11.2. Construction of Project.

11.2.1. Developer agrees to cause the Project to be developed, constructed, and installed in accordance with the terms hereof and the Construction Provisions set forth in **Exhibit D**, including those things reasonably inferable in the Construction Provisions as being within the scope of the Project and necessary to produce the stated result even though no mention is made in the Construction Documents.

11.2.2. **Contract Time / Construction Schedule.** It hereby understood and agreed that assuming the District issues a Notice to Proceed (NTP) on or before **December 1, 2013**, District and Developer may also approve additional changes in the Construction Schedule. District shall have beneficial occupancy of all sites on or before **October 15, 2014**, and Project Completion shall be on or before **November 15, 2013**. The time period between the Notice to Proceed and Completion shall be the total Contract time ("Contract Time"). The Construction shall be performed pursuant to the construction schedule, attached hereto as **Exhibit F** ("Construction Schedule"). The Master Construction Schedule must be approved by the District prior to execution of this Master Facilities Lease.

11.2.3. **Schedule of Values.** The Developer has provided a master schedule of values for the entire Project, as well as for each Site, approved by the District, which attached hereto as **Exhibit G** ("Schedule of Values"). The Schedule of Values must be approved by the District prior to execution of this Master Facilities Lease.

11.2.4. **Liquidated Damages:** Time is of the essence for all work Developer must perform to obtain Project Completion. It is hereby understood and agreed that it is and will be difficult and/or impossible to ascertain and determine the actual damage that the District will sustain in the

event of and by reason of Developer's delay; therefore, Developer agrees that it shall pay to the District the sum of Three Thousand Five Hundred Dollars (\$5,000) per day as liquidated damages per site that is not closed out per the Architects signature for each and every day's delay beyond the Contract Time.

11.2.4.1. It is hereby understood and agreed that the liquidated damages daily amount is not a penalty.

11.2.4.2. In the event any portion of the liquidated damages is not paid to the District, the District may deduct that amount from any money due or that may become due the Developer under this Master Facilities Lease. The District's right to assess liquidated damages is as indicated herein and in the **Exhibit D**.

11.2.4.3. The time during which the construction of the Project is delayed for cause as hereinafter specified may extend the Contract Time for a reasonable time as the District may grant. This provision does not exclude the recovery of damages for delay by either party under other provisions in this Facilities Lease

11.2.5. **Guaranteed Project Cost.** Developer will cause the Project to be constructed within the Guaranteed Project Cost as set forth and defined in the Guaranteed Project Cost Provisions indicated in **Exhibit C** and Developer will not seek additional compensation from District in excess of that amount.

11.2.6. **Modifications.** If the DSA requires changes to the Contract Documents submitted by District to Developer, and those changes change the construction costs and/or construction time for the Project, then those changed costs will be handled as a Modification pursuant to the provisions of **Exhibit D**.

11.2.7. Developer shall cooperate with the District's efforts to obtain State funding for the Project by complying with any State requirements as reasonably requested.

12. Maintenance. Following delivery of possession of the Project by Developer to District, the repair, improvement, replacement and maintenance of the Project and the Project Site shall be at the sole cost and expense and the sole responsibility of the District, subject only to all warranties against defects in materials and workmanship of Developer as provided in **Exhibit D**. The District shall pay for or otherwise arrange for the payment of the cost of the repair and replacement of the Project resulting from ordinary wear and tear. The District waives the benefits of subsections 1 and 2 of Section 1932 of the California Civil Code, but such waiver shall not limit any of the rights of the District under the terms of this Master Facilities Lease.

13. Utilities. Following delivery of possession of the Project by Developer to District, the cost and expenses for all utility services, including, but not limited to, electricity, natural gas, telephone, water, sewer, trash removal, cable television, janitorial service, security, heating, water, internet service and all other utilities of any type shall be paid by District.

14. Taxes and Other Impositions. All ad valorem real property taxes, special taxes, possessory interest taxes, bonds and special lien assessments or other impositions of any kind with respect to the Project, the Project Site and the improvements thereon, charged to or imposed upon either Developer or the District or their respective interests or estates in the Project, shall at all times be paid by District. In the event any possessory interest tax is levied on Developer, its successors and assigns, by virtue of this Master Facilities Lease or the Master Site Lease, District shall pay such possessory interest tax directly, if possible, or shall reimburse Developer, its successors and assigns for the full amount thereof within thirty (30) days after presentation of proof of payment by Developer.

15. Insurance

15.1. Developer's Insurance. The Developer shall comply with the insurance requirements as indicated herein.

15.1.1. **Commercial General Liability and Automobile Liability Insurance.** Developer shall procure and maintain, during the life of the Project, Commercial General Liability Insurance and Automobile Liability Insurance that shall protect Developer, District, and the State, from all claims for bodily injury, property damage, personal injury, death, advertising injury, and medical payments arising from operations under the Project. Developer shall ensure that Products Liability and Completed Operations coverage, Fire Damage Liability, and Any auto including owned and non-owned, are included within the above policies and at the required limits, or Developer shall procure and maintain these coverages separately.

15.1.2. **Umbrella Liability Insurance**

15.1.2.1. Developer may procure and maintain, during the life of the Project, an Umbrella Liability Insurance Policy to meet the policy limit requirements of the required policies if Developer's underlying policy limits are less than required.

15.1.2.2. There shall be no gap between the per occurrence amount of any underlying policy and the start of the coverage under the Umbrella Liability Insurance Policy. Any Umbrella Liability Insurance Policy shall protect Developer, District, and the State, in amounts and including the provisions and requirements for Commercial General Liability and Automobile Liability and Employers' Liability Insurance.

15.1.3. **Subcontractor:** Developer shall require its Subcontractor(s), if any, to procure and maintain Commercial General Liability Insurance, Automobile Liability Insurance, and Umbrella Liability Insurance with minimum limits as appropriate and required by the Developer.

15.1.4. **Workers' Compensation and Employers' Liability Insurance**

15.1.4.1. In accordance with provisions of section 3700 of the California Labor Code, the Developer and every Subcontractor shall be required to secure the payment of compensation to its employees.

15.1.4.2. Developer shall procure and maintain, during the life of the Project, Workers' Compensation Insurance and Employers' Liability Insurance for all of its employees engaged in work under the Project, on/or at the Site of the Project. This coverage shall cover, at a minimum, medical and surgical treatment, disability benefits, rehabilitation therapy, and survivors' death benefits. Developer shall require its Subcontractor(s), if any, to procure and maintain Workers' Compensation Insurance and Employers' Liability Insurance for all employees of Subcontractor(s). Any class of employee or employees not covered by a Subcontractor's insurance shall be covered by Developer's insurance. If any class of employee or employees engaged in Work under the Project, on or at the Site of the Project, is not protected under the Workers' Compensation Insurance, Developer shall provide, or shall cause a Subcontractor to provide, adequate insurance coverage for the protection of any employee(s) not otherwise protected before any of those employee(s) commence work.

15.1.5. **Developer's Risk Insurance: Developer's Risk "All Risk" Insurance.** Developer shall procure and maintain, during the life of the Project, Developer's Builders Risk (Course of Construction), or similar first party property coverage acceptable to the District, issued on a replacement cost

value basis. The cost shall be consistent with the total replacement cost of all insurable Work of the Project included within the Contract Documents. Coverage is to insure against all risks of accidental physical loss and shall include without limitation the perils of vandalism and/or malicious mischief (both without any limitation regarding vacancy or occupancy), sprinkler leakage, civil authority, sonic disturbance, earthquake, flood, collapse, wind, fire, lightning, and smoke. Coverage shall include debris removal, demolition, increased costs due to enforcement of all applicable ordinances and/or laws in the repair and replacement of damaged and undamaged portions of the property, and reasonable costs for the Architect's and engineering services and expenses required as a result of any insured loss upon the Work and Project, including completed Work and Work in progress, to the full insurable value thereof. The deductible for this insurance shall be paid by Developer.

15.1.6. **Professional Liability.** This insurance shall cover the Developer and his/her sub-consultant(s) for professional liability in at least the amounts set forth herein below. Additionally, the policy must contain terms or endorsements extending coverage that requires the insurer to defend and indemnify for acts which happen before the effective date of the policy provided the claim is first made during the policy period, coverage to continue through Project Completion plus "tail" coverage for two (2) years thereafter.

15.1.7. **Proof of Insurance and Other Requirements: Endorsements and Certificates**

15.1.7.1. Developer shall not commence Work nor shall it allow any Subcontractor to commence Work under the Project, until Developer and its Subcontractor(s) have procured all required insurance and Developer has delivered in duplicate to the District all insurance certificates indicating the required coverages have been obtained, and the District has approved these documents. If the District requests copies of Developer's insurance policies and/or endorsements from Developer, Developer shall provide them within fourteen (14) days.

15.1.7.2. Endorsements, certificates, and insurance policies shall include the following:

15.1.7.2.1. A clause stating:

"This policy shall not be amended, canceled or modified and the coverage amounts shall not be reduced until notice has been mailed to the District and Construction Manager stating date of amendment, modification, cancellation or reduction. Date of amendment, modification, cancellation or reduction may not be less than thirty (30) days after date of mailing notice."

15.1.7.2.2. Language stating in particular those insured, extent of insurance, location and operation to which insurance applies, expiration date, to whom cancellation and reduction notice will be sent, and length of notice period.

15.1.7.3. All endorsements, certificates and insurance policies shall state that District, its Board members, employees and agents, and the State of California, are named additional insureds under all policies except Workers' Compensation Insurance, Professional Liability Insurance, and Employers' Liability Insurance.

15.1.7.4. Developer's and Subcontractors' insurance policy(s) shall be primary and non-contributory to any insurance or self-insurance maintained by District, its trustees, employees and/or agents, the State of California, Construction Manager(s), Project Manager(s), Inspector(s), and/or Architect(s).

15.1.7.5. All endorsements, except for Professional Liability, shall waive any right to subrogation against any of the named additional insureds, except Architect.

15.1.7.6. All policies shall be written on an occurrence form, except for Professional Liability which shall be on a claims-made form.

15.1.7.7. All of Developer’s insurance shall be with insurance companies with an A.M. Best rating of no less than **A: VII.**

15.1.8. **Insurance Policy Limits.** The limits of insurance shall not be less than the following amounts or as per the District’s standard attached:

Commercial General Liability	Each Occurrence	\$2,000,000
	General Aggregate Liability	\$2,000,000
	Product Liability and Completed Operations	\$1,000,000
Automobile Liability – Any Auto	Combined Single Limit	\$2,000,000
Workers Compensation		Statutory limits pursuant to State law
Employers’ Liability		\$1,000,000
Developers Risk (Course of Construction)		Issued for the value and scope of Work indicated herein.
Excess Liability		\$4,000,000
Professional Liability, If required by the District and either: - the premium is approved by the District, or - by each subconsultant and/or designer of documents produced by Developer.		\$1,000,000 per occurrence and annual aggregate

15.2. District’s Insurance.

15.2.1. **Rental Interruption Insurance.** District shall at all times from and after District’s acceptance of the Project, carry and maintain in force for the benefit of District and Developer, as their interests may appear, rental interruption insurance to cover loss, total or partial, of the use of the Project due to damage or destruction, in an amount at least equal to the maximum estimated Lease Payments payable under this Master Facilities Lease during the current or any future twelve (12) month period. This insurance may be maintained as part of or in conjunction with any other insurance coverage carried by the District, and such insurance may be maintained in whole or in part in the form of participation by the District in a joint powers agency or other program providing pooled insurance. This insurance may not be maintained in the form of self-insurance. The proceeds of this insurance shall be paid to the Developer in lieu of the Lease Payments that would otherwise be due and owing during this period.

15.2.2. **Property Insurance.** District shall at all times from and after District’s acceptance of the Project, carry and maintain in force a policy of property insurance for 100% of the insurable replacement value with no coinsurance penalty, on the Project Site and the Project, together with all improvements thereon, under a standard “all risk” contract insuring against loss or damage. Developer shall be named as additional insureds or co-insureds thereon by way of endorsement. District shall not be relieved from the obligation of supplying any additional funds for replacement of the Project and the improvements thereon in the event of destruction or damage

where insurance does not cover replacement costs. District shall have the right to procure the required insurance through a joint powers agency or to self-insure against such losses or portion thereof as is deemed prudent by District.

- 15.2.3. **Commercial General Liability Insurance.** District shall at all times from and after District's acceptance of the Project, carry and maintain in force a policy of commercial general liability insurance policy of \$1,000,000. Developer shall be named as an additional insured or co-insured thereon by way of endorsement. District shall have the right to procure the required insurance through a joint powers agency or to self-insure against such losses or portion thereof as is deemed prudent by District.

16. Indemnification.

16.1. Developer's Indemnity Obligation. The Developer shall indemnify, defend with legal counsel reasonably acceptable to the District, keep and hold harmless the District, and their respective board members, officers, representatives, and employees, in both individual and official capacities ("Indemnitees"), against all suits, claims, damages, losses, and expenses, caused by, arising out of, resulting from, or incidental to, the performance of the Work under this Contract by the Developer or its Subcontractors to the full extent allowed by the laws of the State of California, and not to any extent that would render these provisions void or unenforceable, including, without limitation, any such suit, claim, damage, loss, or expense attributable to, without limitation, bodily injury, sickness, disease, death, alleged patent violation or copyright infringement, or to injury to or destruction of tangible property (including damage to the Work itself not covered by Developer's and/or District's insurance policy(s) and including the loss of use resulting therefrom), except to the extent caused by the negligence or willful misconduct of the Indemnitees. This agreement and obligation of the Developer shall not be construed to negate, abridge, or otherwise reduce any right or obligation of indemnity that would otherwise exist as to any party or person described herein. This indemnification, defense, and hold harmless obligation includes any failure or alleged failure by Developer to comply with any provision of law or the Contract Documents, including, without limitation, any stop notice actions, stop payment notice actions, or liens by the California Department of Labor Standards Enforcement.

16.1.1. The Developer shall give prompt notice to the District in the event of any injury (including death), loss, or damage included herein. Without limitation of the provisions herein, if the Developer's agreement to indemnify, defend, and hold harmless the Indemnitees as provided herein against liability for damage arising out of bodily injury to persons or damage to property caused by or resulting from the negligence of any of the Indemnitees shall to any extent be or be determined to be void or unenforceable, it is the intention of the Parties that these circumstances shall not otherwise affect the validity or enforceability of the Developer's agreement to indemnify, defend, and hold harmless the rest of the Indemnitees, as provided herein, and in the case of any such suits, claims, damages, losses, or expenses caused in part by the default, negligence, or act or omission of the Developer, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, and in part by any of the Indemnitees, the Developer shall be and remain fully liable on its agreements and obligations herein to the full extent permitted by law.

16.1.2. In any and all claims against any of the Indemnitees by any employee of the Developer, any Subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, the Developer's indemnification obligation herein shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the Developer or any Subcontractor under workers' compensation acts, disability benefit acts, or other employee benefit acts.

16.2. District's Indemnity Obligation. District shall indemnify, defend and hold harmless Developer and Developer's officers, directors, shareholders, partners, members, agents and employees from and against any claims, damages, costs, expenses, judgments or liabilities connected with this Master Facilities Lease, including, without limitation claims, damages, expenses, or liabilities for loss or damage to any property or for death or injury to any person or persons, only to the extent that those claims, damages, expenses, judgments or liabilities arise from the negligence or willful acts or omissions of District, its officers, agents or employees at the Project.

17. Eminent Domain.

17.1. Total Taking After Project Delivery. If, following delivery of possession of the Project by Developer to District, all of the Project and the Project Site is taken permanently under the power of eminent domain, the Term shall cease as of the day possession shall be so taken.

17.1.1. The financial interest of Developer shall be limited to the amount of principal payments pursuant to the Guaranteed Project Cost Provisions indicated in **Exhibit C** that are then due or past due together with all remaining and succeeding principal payments pursuant to the Guaranteed Project Cost Provisions indicated in **Exhibit C** for the remainder of the original Term.

17.1.2. The balance of the award, if any, shall be paid to the District.

17.2. Total Taking Prior to Project Delivery. If all of the Project and the Project Site is taken permanently under the power of eminent domain and the Developer is still performing the work of the Project and has not yet delivered possession of the Project to District, the Term shall cease as of the day possession shall be so taken. The financial interest of Developer shall be the amount Developer has expended to date for work performed on the Project, subject to documentation reasonably satisfactory to the District.

17.3. Partial Taking. If, following delivery of possession of the Project by Developer to District, less than all of the Project and the Project Site is taken permanently, or if all of the Project and the Project Site or any part thereof is taken temporarily, under the power of eminent domain:

17.3.1. This Master Facilities Lease shall continue in full force and effect and shall not be terminated by virtue of that partial taking and the Parties waive the benefit of any law to the contrary, and

17.3.2. There shall be a partial abatement of any principal payments pursuant to the Guaranteed Project Cost Provisions indicated in **Exhibit C** as a result of the application of the net proceeds of any eminent domain award to the prepayment of those payments hereunder. The Parties agree to negotiate, in good faith, for an equitable split of the net proceeds of any eminent domain award and a corresponding reduction in the payments required pursuant to the Guaranteed Project Cost Provisions indicated in **Exhibit C**, and

18. Damage and Destruction. If, following delivery of possession of the Project by Developer to District, the Project is totally or partially destroyed due to fire, acts of vandalism, flood, storm, earthquake, Acts of God, or other casualty beyond the control of either party hereto, the Term shall end and District shall still no longer be required to make any payments required pursuant to the Guaranteed Project Cost Provisions indicated in **Exhibit C** that are then due or past due or any remaining and succeeding principal payments pursuant to the Guaranteed Project Cost Provisions indicated in **Exhibit C** for the remainder of the original Term. The Developer shall still be due any funds, payments, or disbursements from the District's rental interruption insurance to pay for the amounts that would otherwise have been due and owing from the District under **Exhibit C**.

19. Abatement.

19.1. If, after the Parties have executed the Memorandum of Commencement Date attached hereto as **Exhibit E**, the Project becomes destroyed or damaged beyond repair, the District may determine its use of the Project abated. Thereafter, the District shall have no obligation to make, nor shall the Developer have the right to demand, any future Lease Payments as indicated in the Guaranteed Project Cost Provisions indicated in **Exhibit C** to this Master Facilities Lease. The Term shall cease at that time.

19.2. The Parties hereby agree that the net proceeds of the District's rental interruption insurance that the District must maintain during the Term, as required herein, shall constitute a special fund for the payment of the Lease Payments indicated in the Guaranteed Project Cost Provisions indicated in **Exhibit C**.

19.3. The District shall as soon as practicable after such event, apply the net proceeds of its insurance policy intended to cover that loss ("Net Proceeds"), either to:

19.3.1. Repair the Project to full use;

19.3.2. Replace the Project, at the District's sole cost and expense, with property of equal or greater value to the Project immediately prior to the time of the destruction or damage, with that replacement, once completed, shall be substituted in this Master Facilities Lease by appropriate endorsement; or

19.3.3. Exercise the District's purchase option as indicated in the Guaranteed Project Cost Provisions indicated in **Exhibit C** to this Master Facilities Lease.

19.4. The District shall notify the Developer of which course of action it desires to take within thirty (30) days after the occurrence of the destruction or damage. The Net Proceeds of all insurance payable with respect to the Project shall be available to the District and shall be used to discharge the District's obligations under this Section.

20. Access

20.1. By Developer. Developer shall have the right at all reasonable times to enter upon the Project Site to construct the Project pursuant to this Master Facilities Lease. Following the acceptance of the Project by District, Developer may enter the Project at reasonable times with advance notice and arrangement with District for purposes of making any repairs required to be made by Developer.

20.2. By District. The District shall have the right to enter upon the Project Site at all times. District shall comply with all safety precautions and procedures required by Developer.

21. Assignment, Subleasing

21.1. Assignment and Subleasing by the District. Any assignment or sublease by District shall be subject to all of the following conditions:

21.1.1. This Master Facilities Lease and the obligation of the District to make the payments required pursuant to the Guaranteed Project Cost Provisions indicated in **Exhibit C** shall remain obligations of the District; and

21.1.2. The District shall, within thirty (30) days after the delivery thereof, furnish or cause to be furnished to Developer a true and complete copy of any assignment or sublease; and

21.2. Assignment by Developer. Developer may assign its right, title and interest in this Master Facilities Lease, in whole or in part to one or more assignees, only after the written consent of District, which District

will not unreasonably withhold. No assignment shall be effective against the District unless and until the District has consented in writing. Notwithstanding anything to contrary contained in this Master Facilities Lease, no consent from the District shall be required in connection with any assignment by Developer to a lender for purposes of financing the Project as long as there are not additional costs to the District.

22. Events Of Default of District

22.1. Events of Default by District Defined. The following shall be “Events of Default” of the District under this Master Facilities Lease. The terms “Event of Default” and “Default” shall mean, whenever they are used as to the District in the Master Site Lease or this Master Facilities Lease, shall only be one or more of the following events:

- 22.1.1. Failure by the District to pay payments required pursuant to the Guaranteed Project Cost Provisions indicated in **Exhibit C**, and the continuation of such failure for a period of forty-five (45) days.
- 22.1.2. Failure by the District to perform any material covenant, condition or agreement in this Master Facilities Lease and that failure continues for a period of forty-five (45) days after Developer provides District with written notice specifying that failure and requesting that the failure be remedied; provided, however, if the failure stated in the notice cannot be corrected within the applicable period, Developer shall not unreasonably withhold its consent to an extension of such time if corrective action is instituted by the District within the applicable period and diligently pursued until the default is corrected.

22.2. Remedies on District’s Default. If there has been an Event of Default on the District’s part, the Developer may exercise any and all remedies available pursuant to law or granted pursuant to this Master Facilities Lease; provided, however, there shall be no right under any circumstances to accelerate any of the payments required pursuant to the Guaranteed Project Cost Provisions indicated in **Exhibit C** or otherwise declare those payments not then past due to be immediately due and payable.

- 22.2.1. Developer may rescind its leaseback of the Project Site to the District under this Facilities Lease and re-rent the Project Site to another lessee for the remaining Term for no less than the fair market value for leasing the Project Site, which shall be:
 - 22.2.1.1. An amount determined by a mutually-agreed upon appraiser, or
 - 22.2.1.2. If an appraiser cannot be agreed to, an amount equal to the mean between a District appraisal and a Developer appraisal for the Project Site, both prepared by an MAI-certified appraiser.
- 22.2.2. District’s obligation to make the payments required pursuant to the Guaranteed Project Cost Provisions indicated in **Exhibit C** shall be:
 - 22.2.2.1. Increased by the amount of costs, expenses, and damages incurred by the Developer in re-renting the Project Site, and
 - 22.2.2.2. Decreased by the amount of rent Developer receives in reletting the Project Site.
- 22.2.3. The District agrees that the terms of this Master Facilities Lease constitute full and sufficient notice of the right of Developer to re-rent the Project Site in the Event of Default without effecting a surrender of this Master Facilities Lease, and further agrees that no acts of Developer in performing a re-renting as permitted herein shall constitute a surrender or termination of this

Master Facilities Lease, but that, on the contrary, in the event of an Event of Default by the District the right to re-rent the Project Sites shall vest in Developer as indicated herein.

22.3. District's Continuing Obligation. Unless there has been damage, destruction, a Taking as described above, or the Developer is in Default as indicated herein, the District shall continue to remain liable for the payments required pursuant to the Guaranteed Project Cost Provisions indicated in **Exhibit C** and those amounts shall be payable to Developer at the time and in the manner as therein provided.

22.4. No Remedy Exclusive. No remedy herein conferred upon or reserved to Developer is intended to be exclusive and every such remedy shall be cumulative and shall be in addition to every other remedy given under this Master Facilities Lease or now or hereafter existing at law or in equity. No delay or omission to exercise any right or power accruing upon any Default shall impair any such right or power or shall be construed to be a waiver thereof, but any such right and power may be exercised from time to time and as often as may be deemed expedient. In order to entitle Developer to exercise any remedy reserved to it in this Article 9, it shall not be necessary to give any notice, other than such notice as may be required in this Article or by law.

23. Events Of Default of Developer

23.1. Events of Default by Developer Defined. The following shall be "Events of Default" of the Developer under this Master Facilities Lease. The terms "Event of Default" and "Default" shall mean, whenever they are used as to the Developer in the Master Site Lease or this Master Facilities Lease, shall only be one or more of the following events:

23.1.1.1. Developer unreasonably refuses or fails to prosecute the work on the Project with such reasonable diligence as will accomplish Project Completion within the Contract Time or any extension thereof;

23.1.1.2. Prior to Project Completion, Developer is adjudged a bankrupt, or files for bankruptcy, or if it should make a general assignment for the benefit of its creditors, or if a receiver should be appointed on account of its insolvency;

23.1.1.3. Developer persistently disregards applicable law as indicated in **Exhibit "D,"** or otherwise be in violation of **Exhibit "D."**

23.1.2. Failure by the Developer to perform any material covenant, condition or agreement in this Master Facilities Lease and that failure continues for a period of forty-five (45) days after District provides Developer with written notice specifying that failure and requesting that the failure be remedied; provided, however, if the failure stated in the notice cannot be corrected within the applicable period, District shall not unreasonably withhold its consent to an extension of such time if corrective action is instituted by the Developer within the applicable period and diligently pursued until the default is corrected.

23.2. Remedies on Developer's Default. If there has been an Event of Default on the Developer's part, the District may, without prejudice to any other right or remedy, terminate the Master Site Lease and Master Facilities Lease.

23.2.1. If District terminates the Master Site Lease and the Master Facilities Lease pursuant to this section, the Project Sites and any improvements built upon the Project Sites shall vest in District upon termination of the Master Site Lease and Master Facilities Lease, and District shall thereafter be required to pay only the principal amounts then due and owing pursuant to the

Guaranteed Project Cost Provisions indicated in **Exhibit C**, less any damages incurred by District due to Developer's Default.

23.2.2. The District shall retain all rights it possesses as indicated in **Exhibit D** including, without limitation,

23.2.2.1. The right to assess liquidated damages due as permitted herein;

23.2.2.2. All rights the District holds to demand performance pursuant to the Developer's required performance bond;

24. Notices. All notices, certificates or other communications hereunder shall be sufficiently given and shall be deemed to have been received as indicated below and to the persons indicated below:

24.1. If notice is given by personal delivery thereof, it shall be considered delivered on the day of delivery.

24.2. If notice is given by overnight delivery service, it shall be considered delivered on (1) day after date deposited, as indicated by the delivery service.

24.3. If notice is given by depositing same in United States mail, enclosed in a sealed envelope, it shall be considered delivered three (3) days after date deposited, as indicated by the postmarked date.

24.4. If notice is given by registered or certified mail with postage prepaid, return receipt requested, it shall be considered delivered on the day the notice is signed for

If to District:

Mt. Diablo Unified School District
1936 Carlotta Drive
Concord, CA 94519
Attention: Superintendent

Telephone: (925) 682-8000
Facsimile: (925) 827-1138

With a copy to:

Orbach Huff & Suarez
1 Kaiser Plaza, Ste. 1458
Oakland, CA 94612
Attention: Philip J. Henderson
Telephone: (510) 999-7908
Facsimile: (510) 999-7918

If to Developer:

Taber Construction Inc.
PO Box 1309
Martinez, CA 94553
Attention: Bret Taber

Telephone: (925) 682-6133
Facsimile: (925) 682-6122

_____, CA 9_____
Attention: _____
Telephone: () ____ - _____
Facsimile: () ____ - _____

The Developer and the District, by notice given hereunder, may designate different addresses to which subsequent notices, certificates or other communications will be sent.

25. Binding Effect. This Master Facilities Lease shall inure to the benefit of and shall be binding upon Developer and the District and their respective successors, transferees and assigns.

26. No Additional Waiver Implied by One Waiver. In the event any agreement contained in this Master Facilities Lease should be breached by either party and thereafter waived by the other party, such waiver shall be limited to the particular breach so waived and shall not be deemed to waive any other breach hereunder.

27. Severability. In the event any provision of this Master Facilities Lease shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision hereof, unless elimination of such invalid provision materially alters the rights and obligations embodied in this Master Facilities Lease or the Master Site Lease.

28. Amendments, Changes and Modifications. Except as to the termination rights of both Parties as indicated herein, this Master Facilities Lease may not be amended, changed, modified, altered or terminated without the written agreement of both Parties hereto.

29. Net-Net-Net Lease. This Master Facilities Lease shall be deemed and construed to be a “net-net-net lease” and the District hereby agrees that all payments it makes pursuant to the Guaranteed Project Cost Provisions indicated in **Exhibit C** shall be an absolute net return to Developer, free and clear of any expenses, charges or set-offs.

30. Execution in Counterparts. This Master Facilities Lease may be executed in several counterparts, each of which shall be an original and all of which shall constitute but one and the same instrument.

31. Developer and District Representatives. Whenever under the provisions of this Master Facilities Lease the approval of Developer or the District is required, or Developer or the District is required to take some action at the request of the other, such approval or such request shall be given for Developer by Developer’s Representative and for the District by the District’s Representative, and any party hereto shall be authorized to rely upon any such approval or request.

32. Applicable Law. This Master Facilities Lease shall be governed by and construed in accordance with the laws of the State of California, and venued in the County within which the School Site is located.

33. Attorney's Fees. If either party brings an action or proceeding involving the Property or to enforce the terms of this Master Facilities Lease or to declare rights hereunder, each party shall bear the cost of its own attorneys’ fees.

34. Captions. The captions or headings in this Master Facilities Lease are for convenience only and in no way define, limit or describe the scope or intent of any provisions or Sections of this Master Facilities Lease.

35. Prior Agreements. This Master Facilities Lease and the corresponding Master Site Lease collectively contain all of the agreements of the Parties hereto with respect to any matter covered or mentioned in this Master Facilities Lease and no prior agreements or understanding pertaining to any such matter shall be effective for any purpose.

36. Further Assurances. Parties shall promptly execute and deliver all documents and instruments reasonably requested to give effect to the provisions of this Master Facilities Lease.

37. Recitals Incorporated. The Recitals set forth at the beginning of this Master Facilities Lease are hereby incorporated into its terms and provisions by this reference.

38. Time of the Essence. Time is of the essence with respect to each of the terms, covenants, and conditions of this Master Facilities Lease.

39. Force Majeure. A party shall be excused from the performance of any obligation imposed in this Master Facilities Lease and the exhibits hereto for any period and to the extent that a party is prevented from performing such obligation, in whole or in part, as a result of delays caused by the other party or third parties, a governmental agency or entity, an act of God, war, terrorism, civil disturbance, forces of nature, fire, flood, earthquake, strikes or lockouts, and such nonperformance will not be a default hereunder or a grounds for termination of this Facilities Lease.

40. Interpretation. None of the Parties hereto, nor their respective counsel, shall be deemed the drafters of this Facilities Lease for purposes of construing the provisions thereof. The language in all parts of this Master Facilities Lease shall in all cases be construed according to its fair meaning, not strictly for or against any of the Parties hereto.

IN WITNESS WHEREOF, the Parties have caused this Master Facilities Lease to be executed by their respective officers who are duly authorized, as of the Effective Date.

ACCEPTED AND AGREED on the date indicated below:

Dated: _____, 2013

Dated: October 29, 2013

Mt. Diablo Unified School District

Taber Construction, Inc.

By: _____

By:  _____

Print Name: Dr. Nellie Meyer

Print Name: Bret Taber

Print Title: Superintendent

Print Title: President

EXHIBIT "A-1"
DESCRIPTION OF SCHOOL SITE

Concord High School
4200 Concord Blvd. Concord, CA 94521

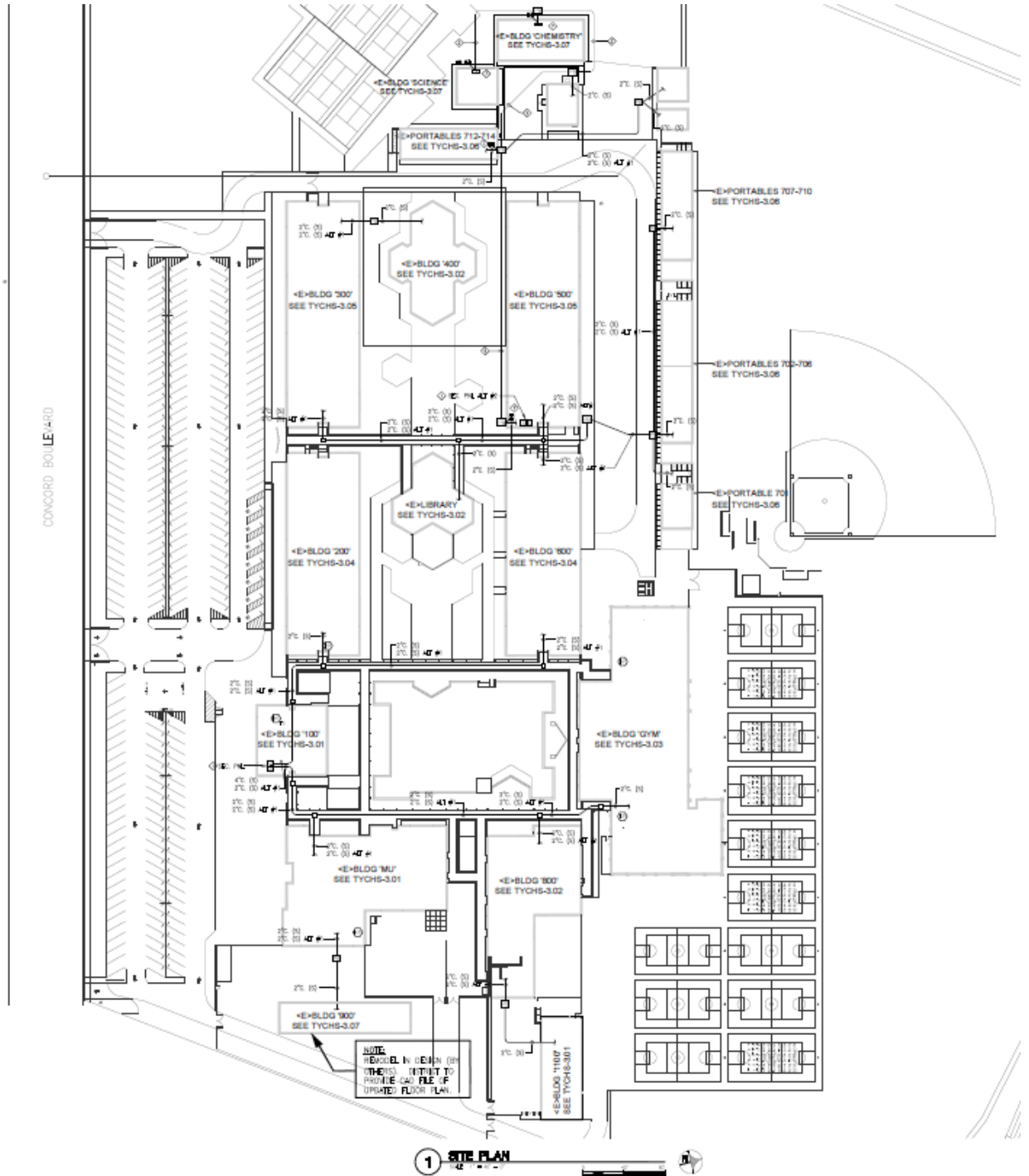
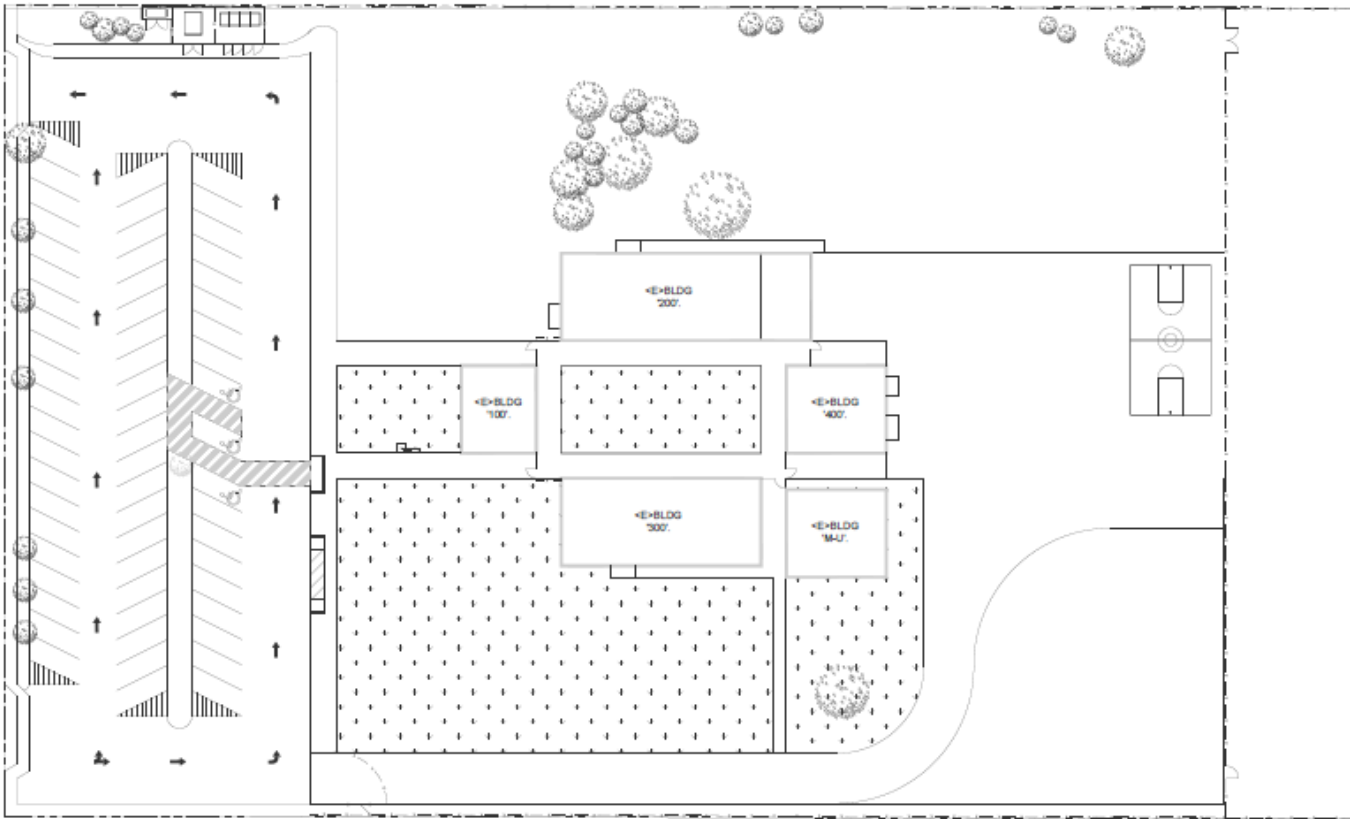


EXHIBIT "A-2"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Eagle Peak Montessori School
800 Hutchinson Road, Walnut Creek, CA 94598



1 SITE PLAN

EXHIBIT "A-3"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Willow Creek Center
1026 Mohr Lane, Concord, CA 94518



EXHIBIT "A-4"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Cambridge Elementary School
1135 Lacey Lane, Concord CA 94520

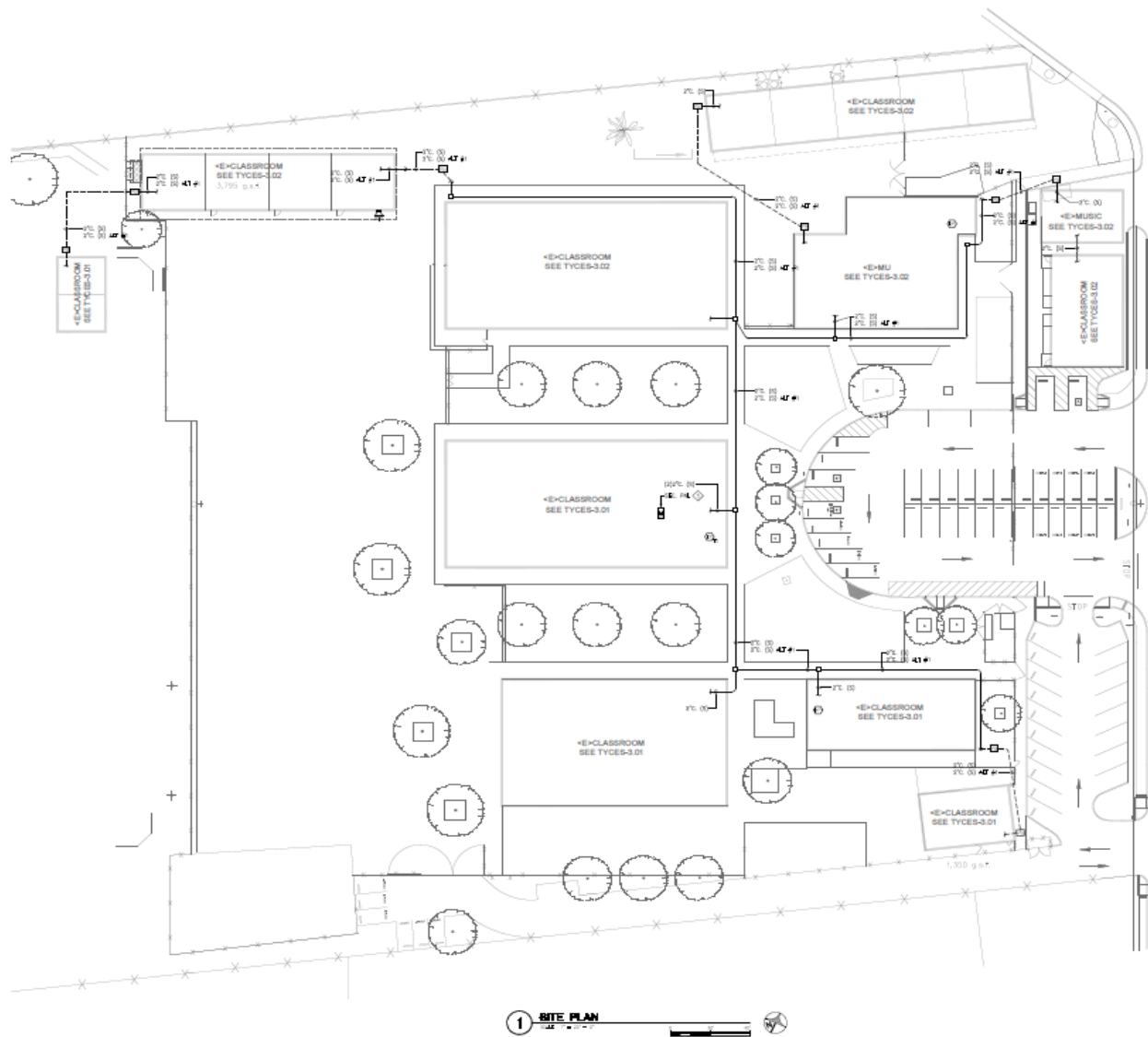


EXHIBIT "A-5"
DESCRIPTION OF SCHOOL SITE
 Attached is the Legal Description for:

College Park High School
201 Viking Drive, Pleasant Hill, CA 94523

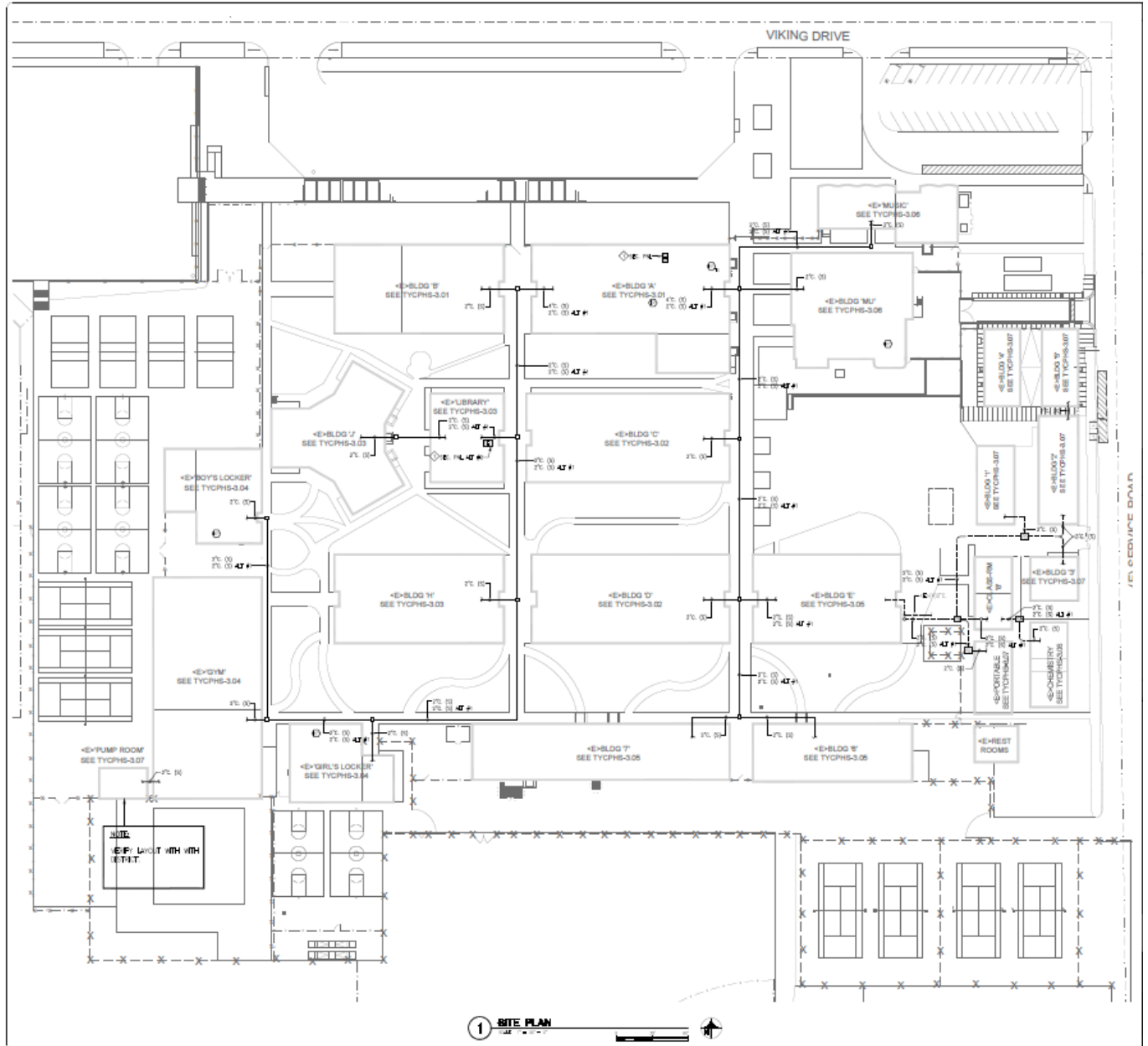


EXHIBIT "A-6"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Clayton Valley Charter High School
1101 Alberta Way, Concord, CA 94521

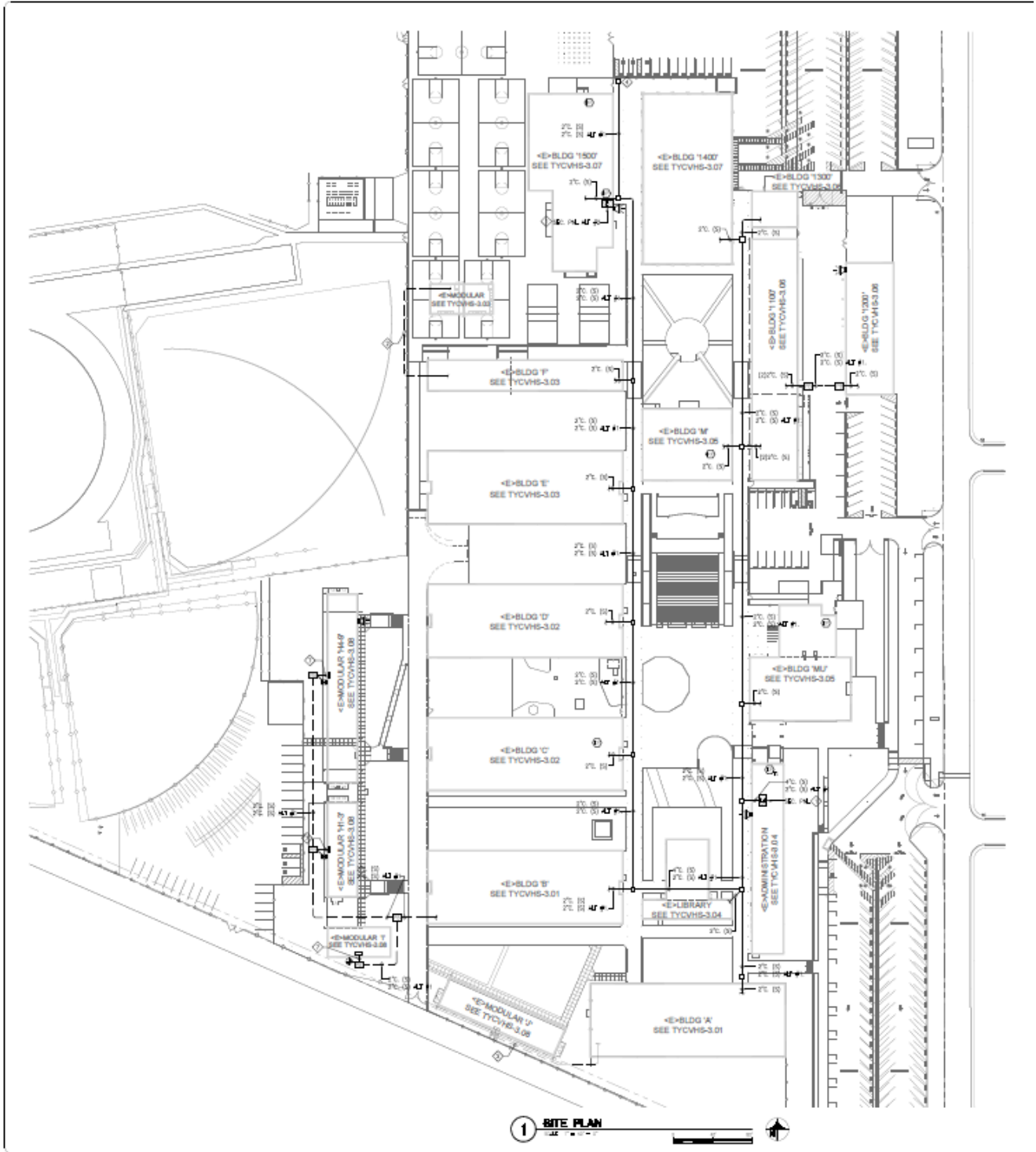


EXHIBIT "A-8"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Holbrook Elementary School
3333 Ronald Way, Concord CA, 94519

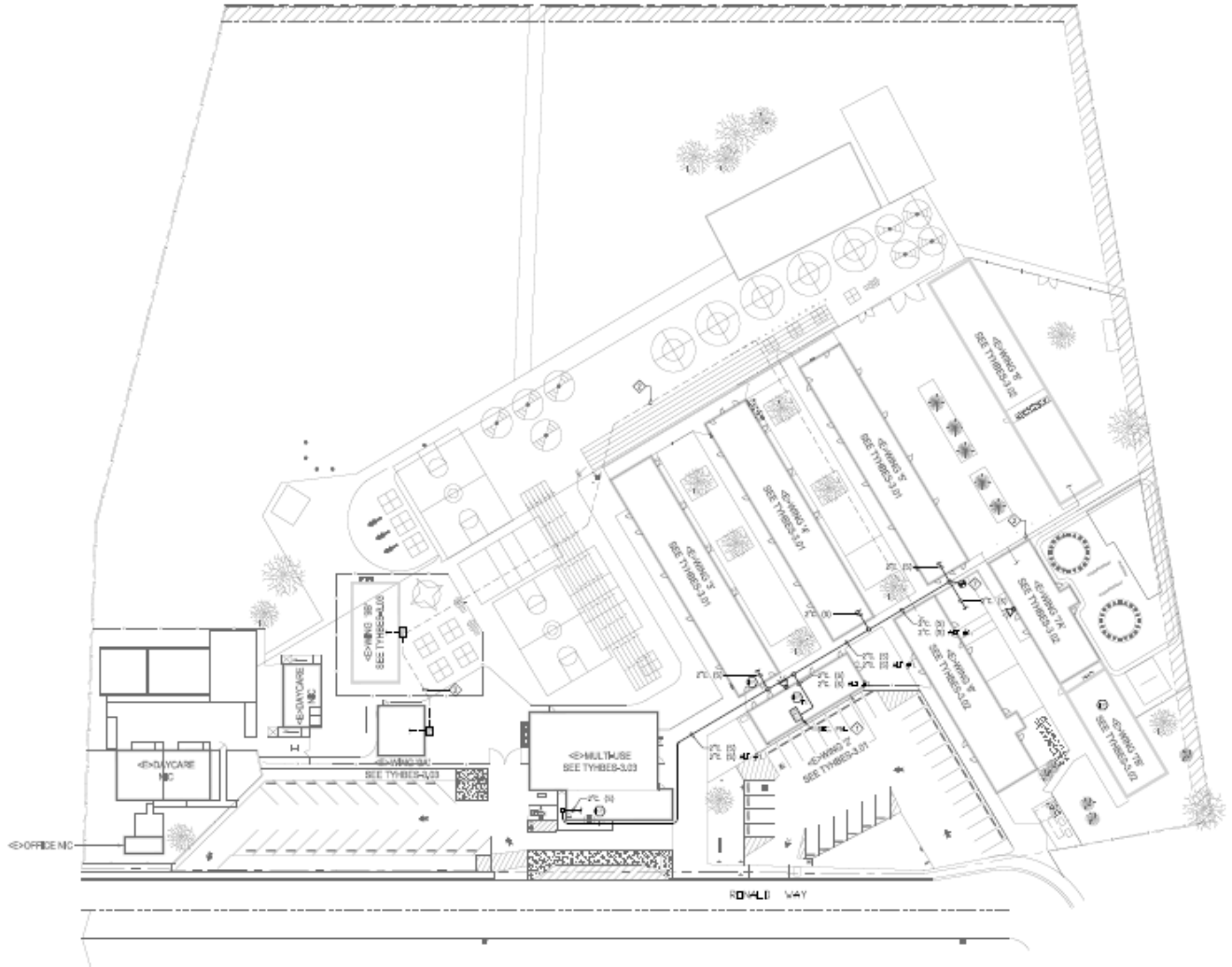


EXHIBIT "A-9a"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Mount Diablo High School (Main Campus)
2450 Grant Street, Concord, CA 94520

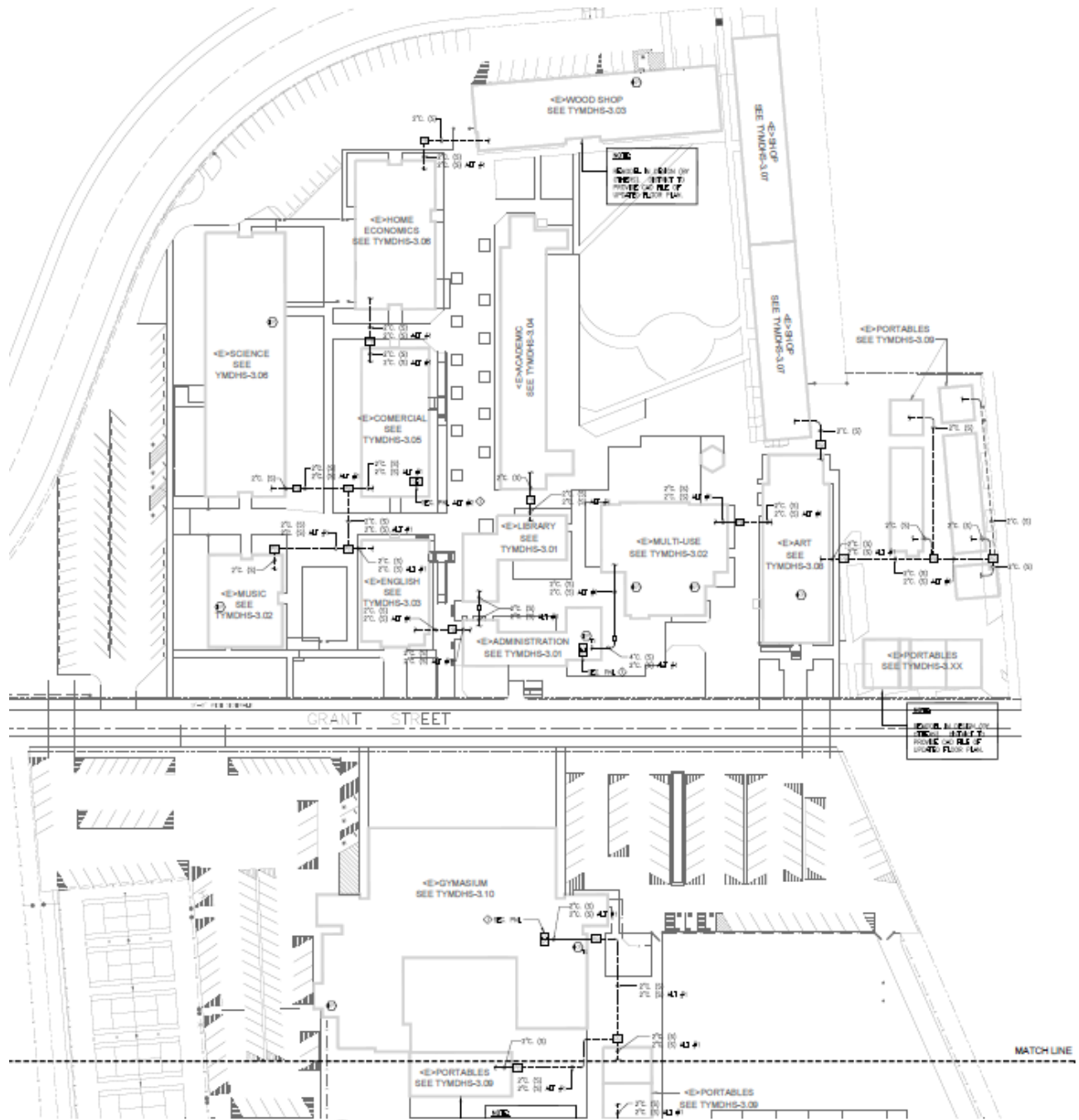


EXHIBIT "A-9b"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Mount Diablo High School (South West)
2450 Grant Street, Concord, CA 94520

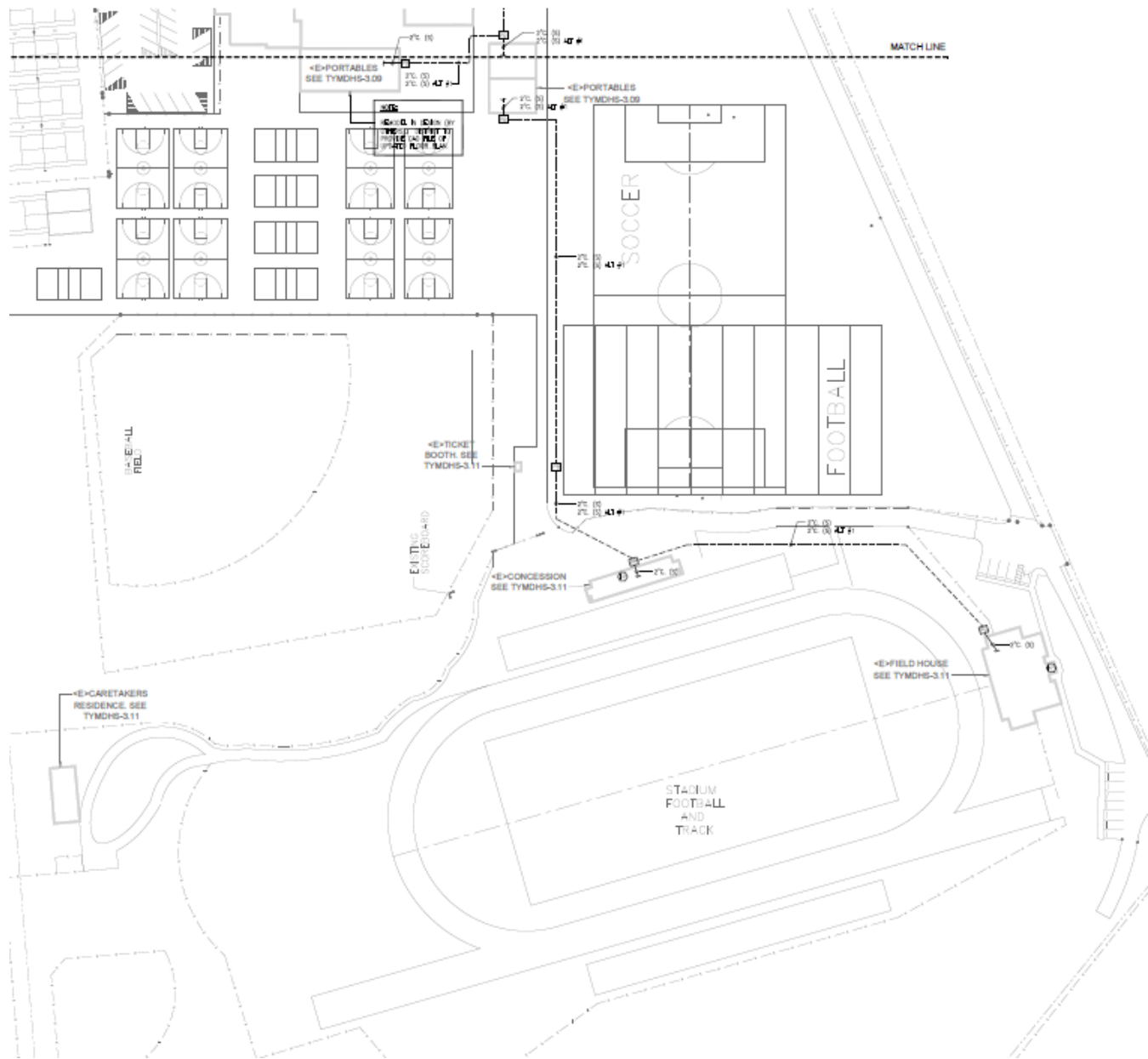


EXHIBIT "A-10"

DESCRIPTION OF SCHOOL SITE

Attached is the Legal Description for:

**Maintenance & Operations, Purchasing, Food Services, Transportation
1480 Gasoline Alley, Concord CA, 94520
1490 Gasoline Alley, Concord CA, 94520
2326 Bisso Lane, Concord, CA 94520**

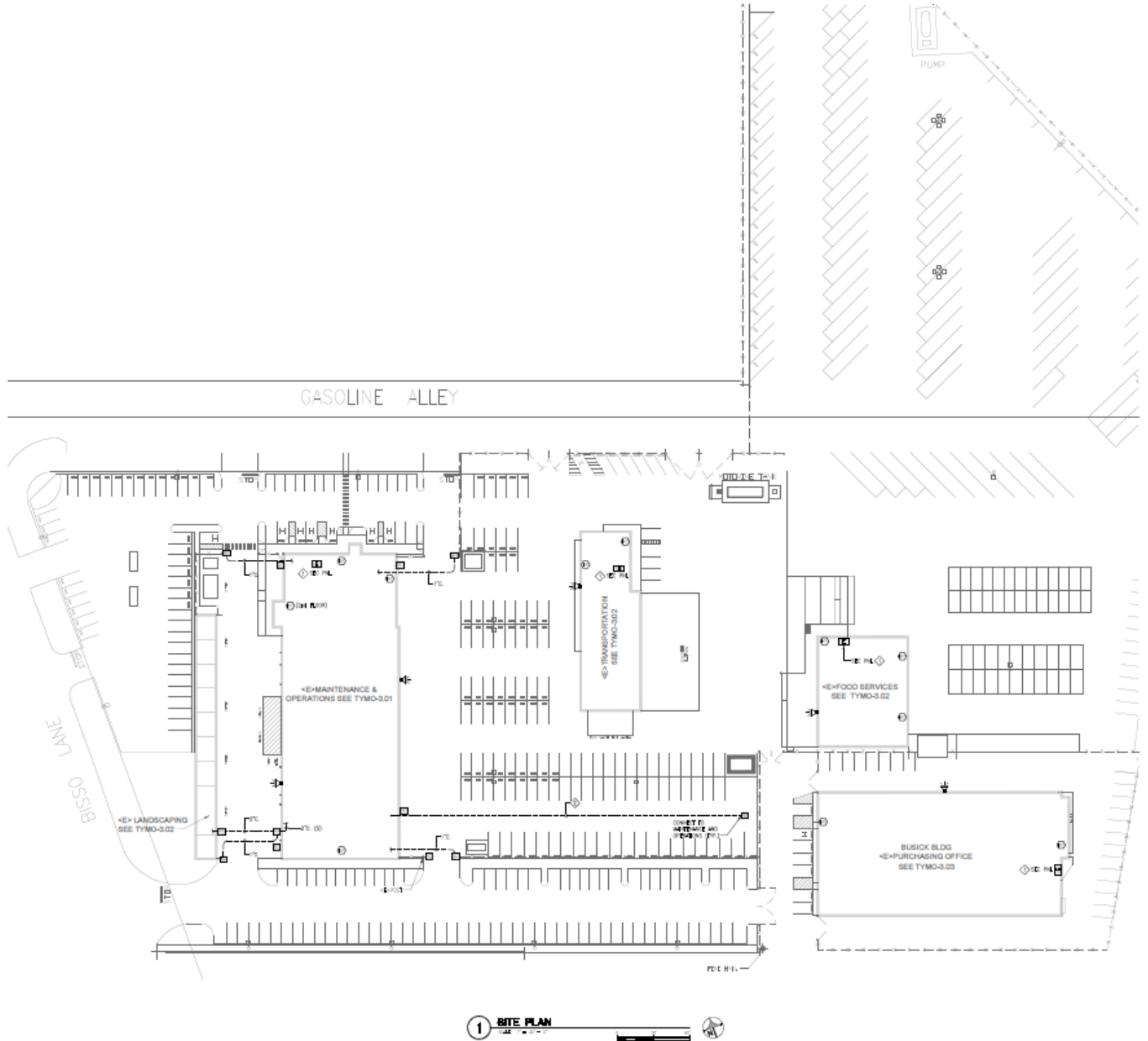
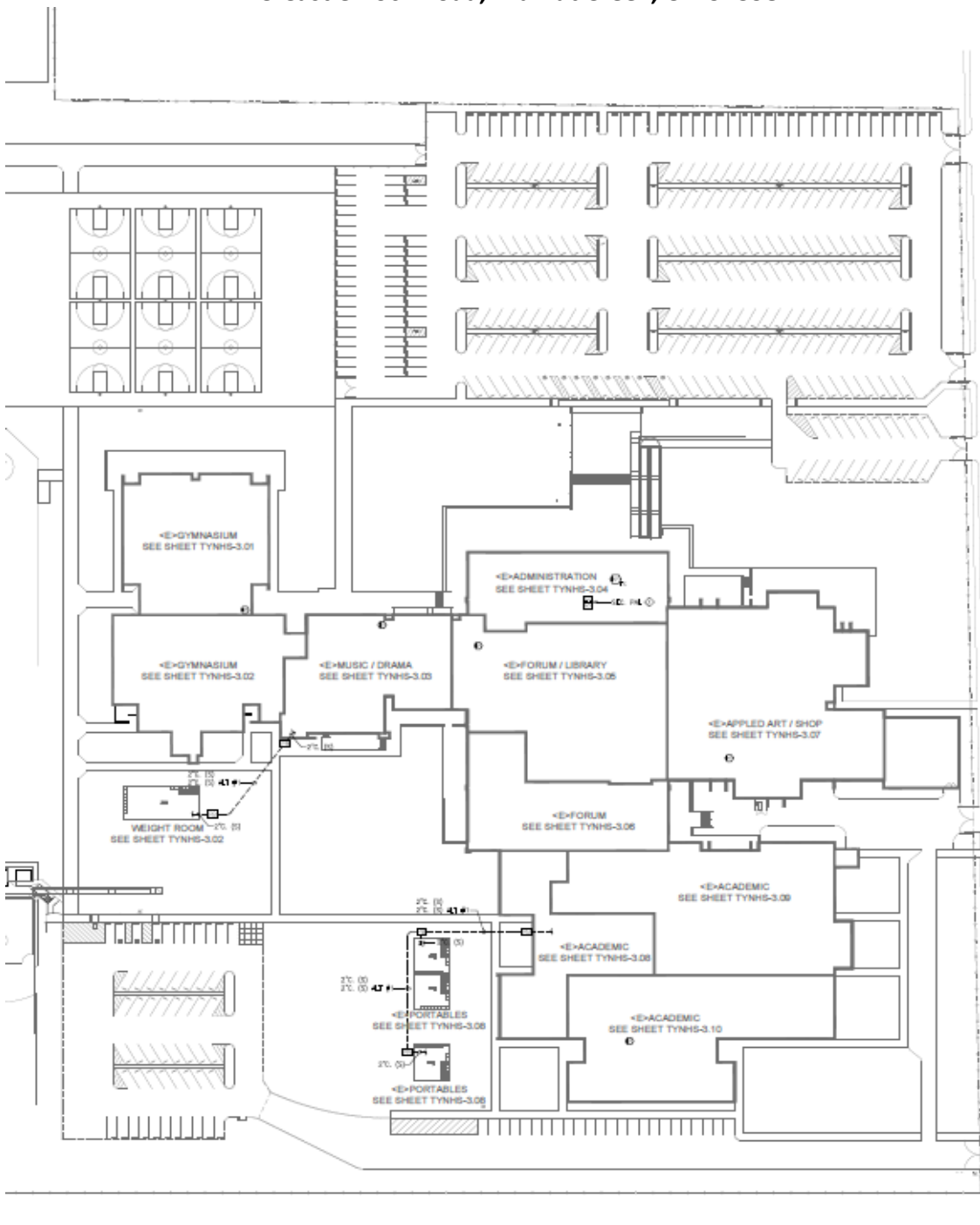


EXHIBIT "A-11"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Northgate High School
425 Castle Rock Road, Walnut Creek, CA 94598



1 SITE PLAN
EXHIBIT "A-12"

DESCRIPTION OF SCHOOL SITE

Attached is the Legal Description for:

**Ygnacio Valley High School
755 Oak Grove, Concord CA 94518**

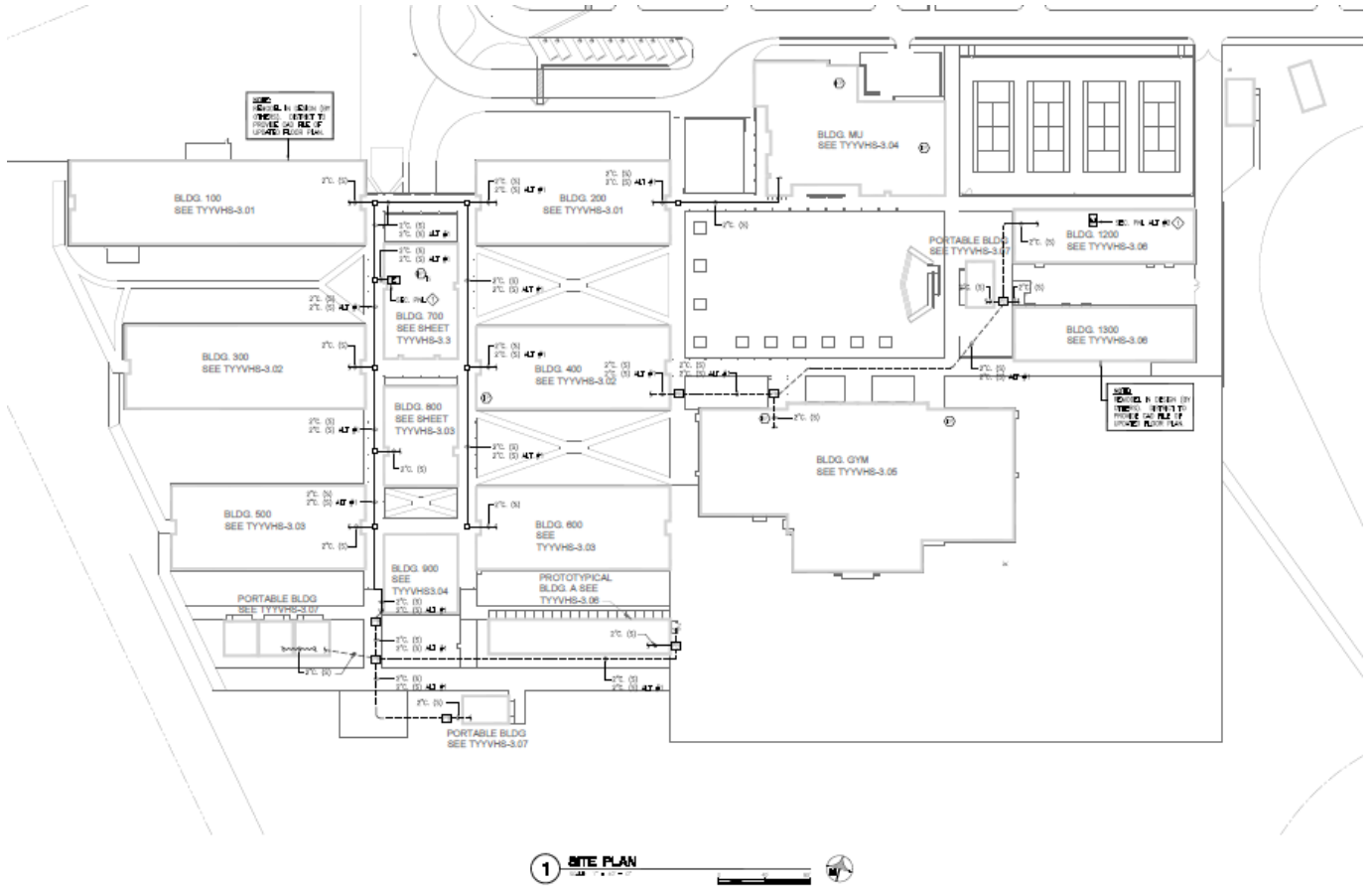


EXHIBIT "A-13"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Ygnacio Valley Elementary School
2217 Chalomar Road, Concord, CA 94518

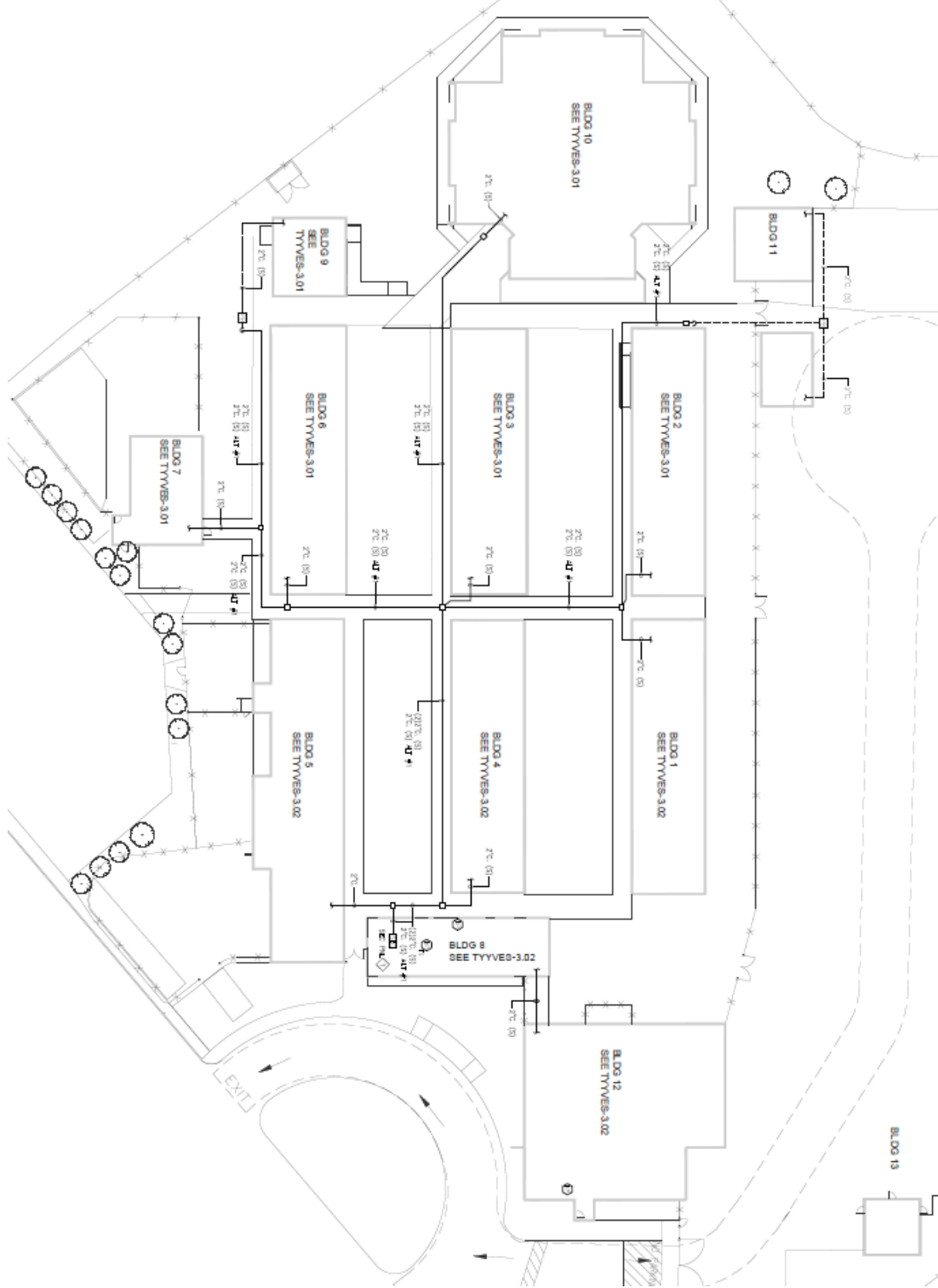


EXHIBIT "A-14"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

El Monte Elementary School
1400 Dina Drive, Concord, CA 94518

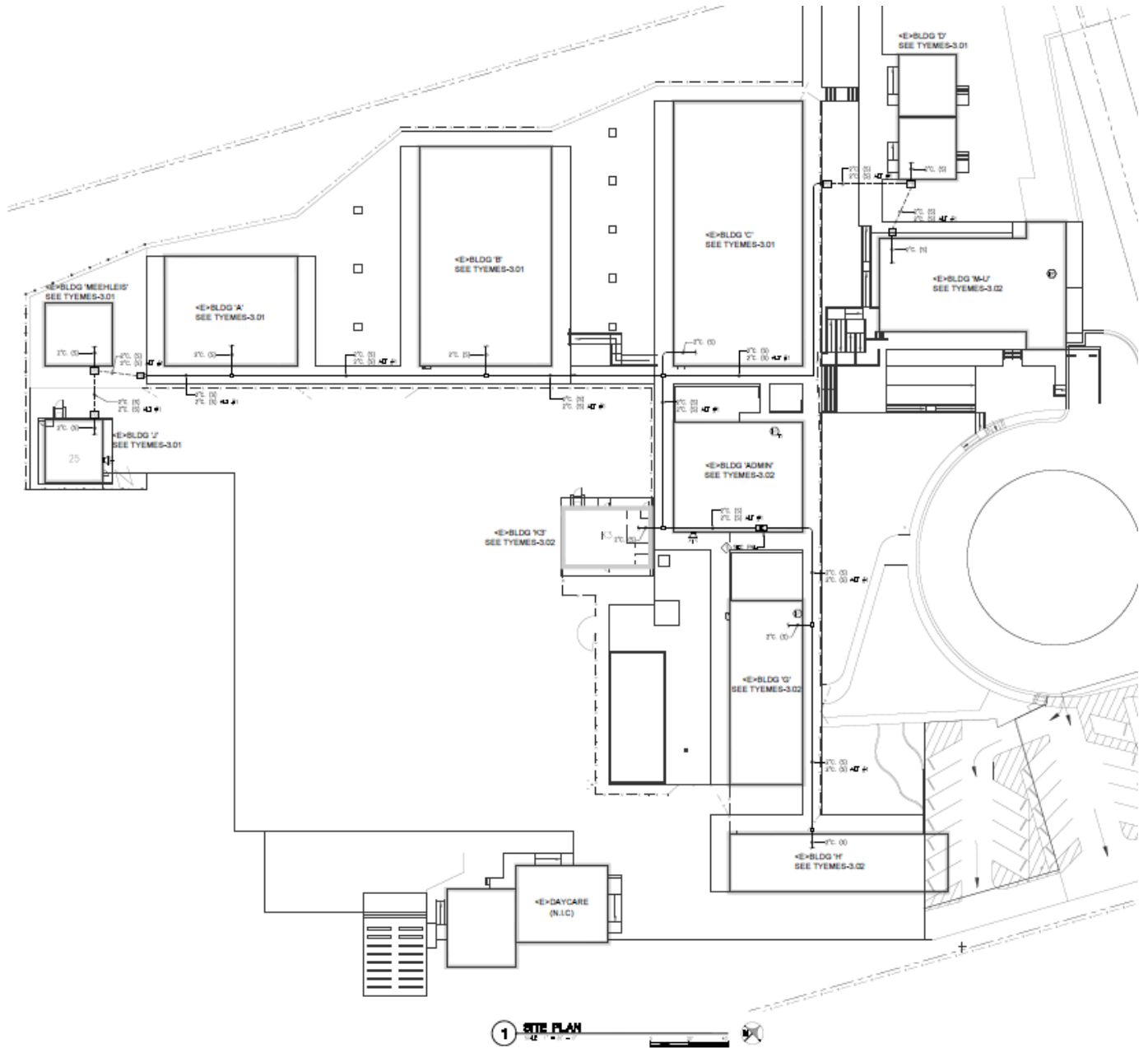


EXHIBIT "A-15"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Glenbrook Middle School
2351 Olivera Road, Concord CA, 94520

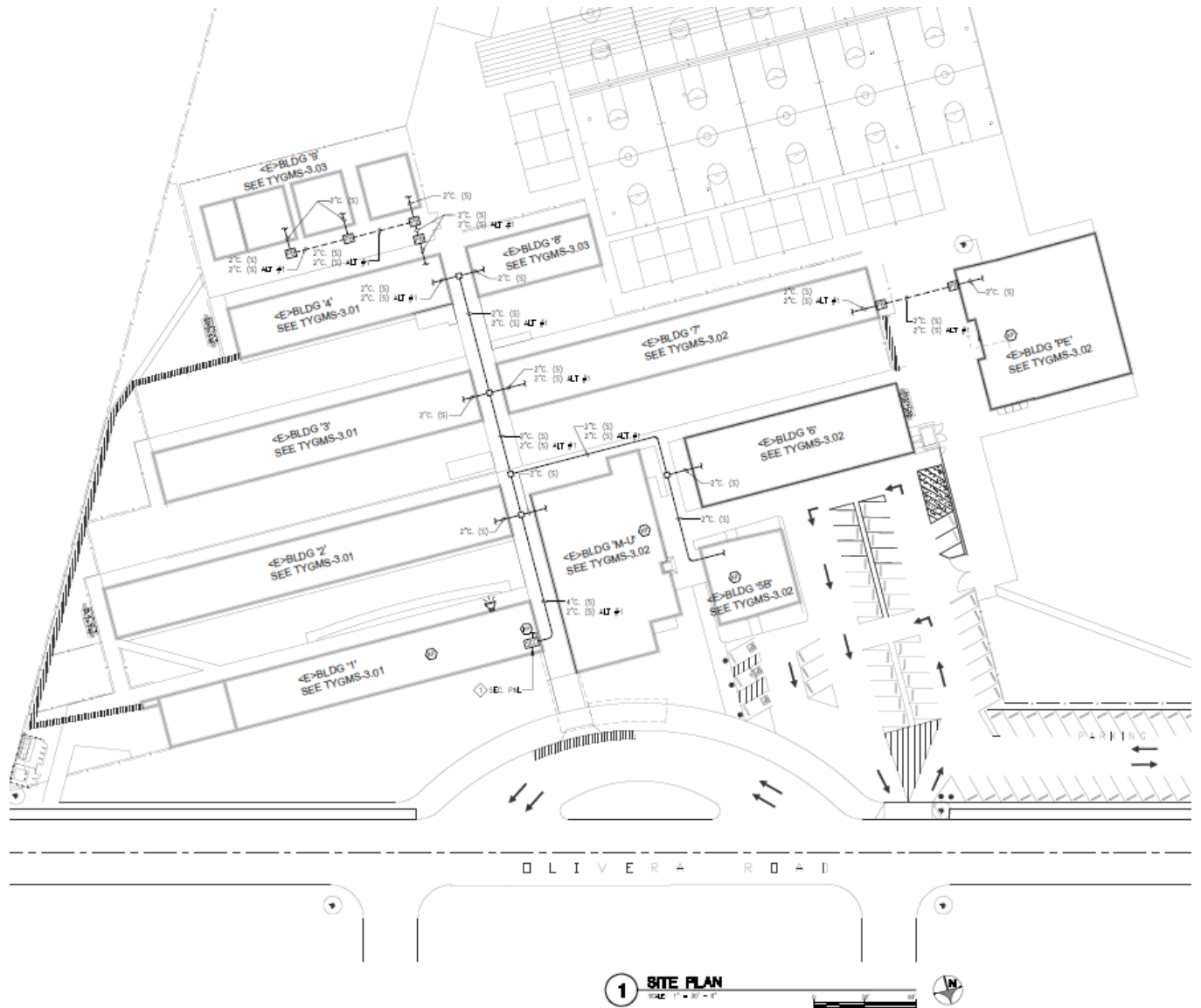


EXHIBIT "A-16"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Highland Elementary School
1326 Pennsylvania Blvd. Concord, CA 94521

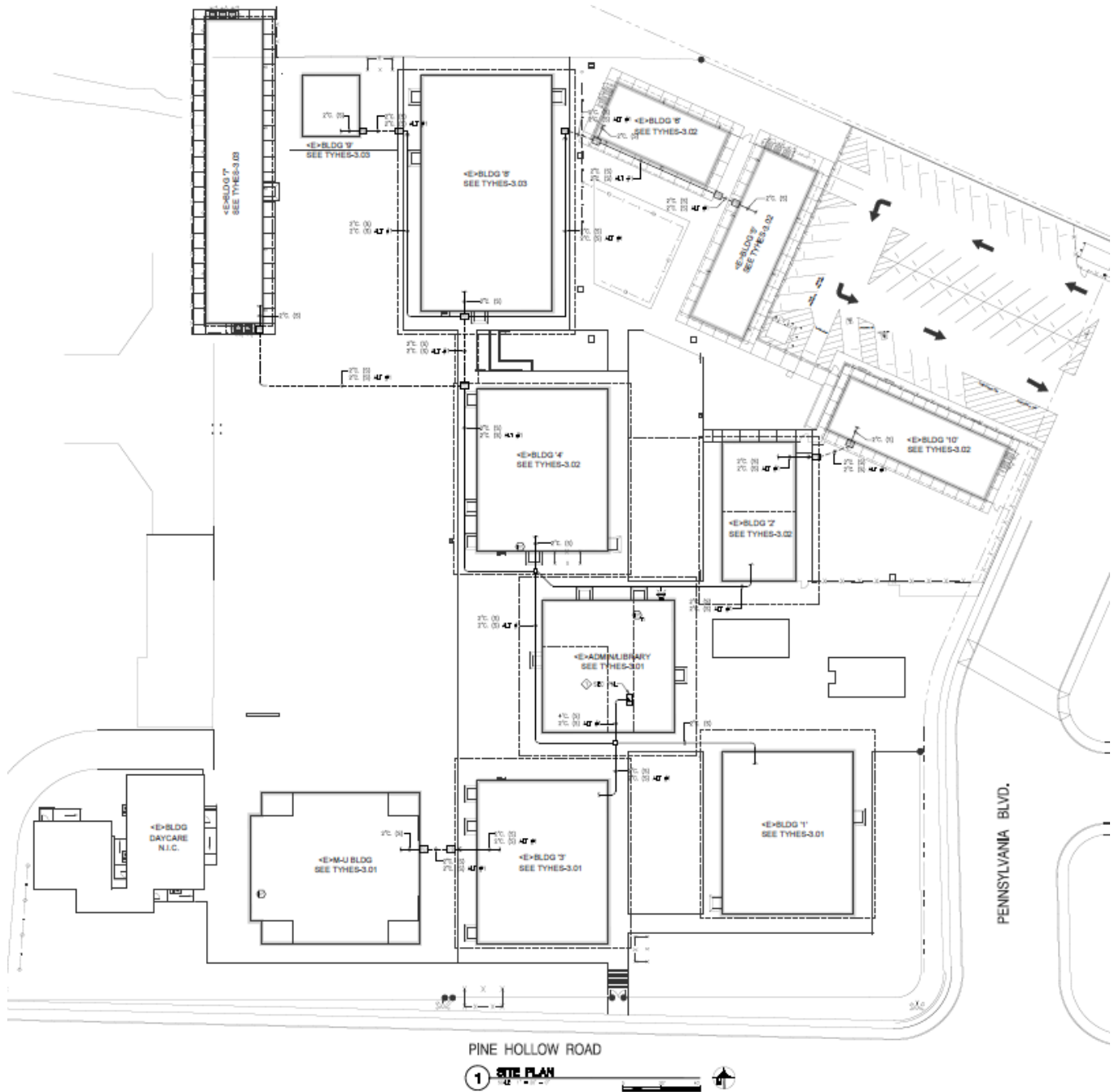


EXHIBIT "A-18"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Mountain View Elementary School
1705 Thornwood Drive, Concord, CA 94521

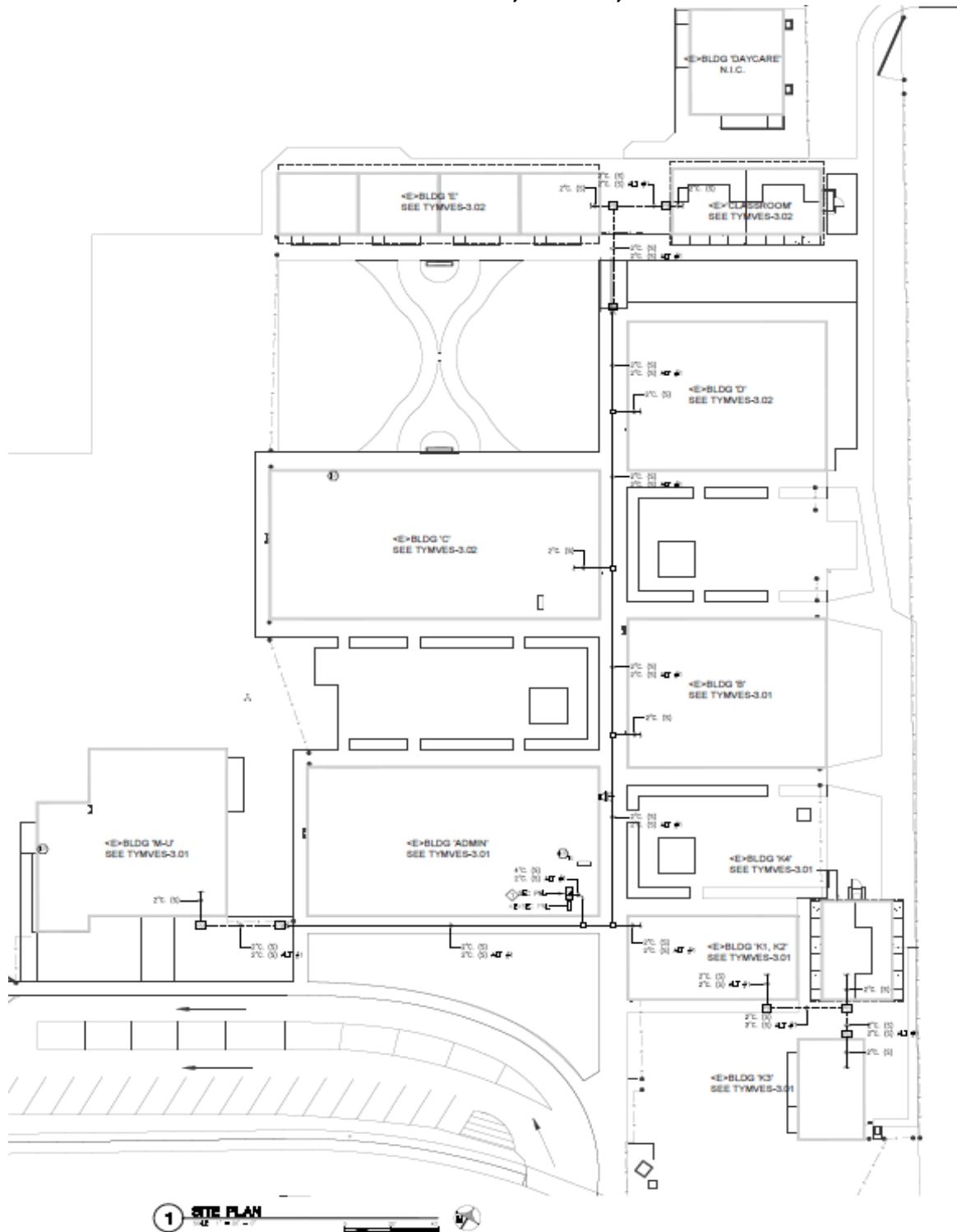


EXHIBIT "A-19"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Pine Hollow Middle School
5522 Pine Hollow Road, Concord, CA 94521

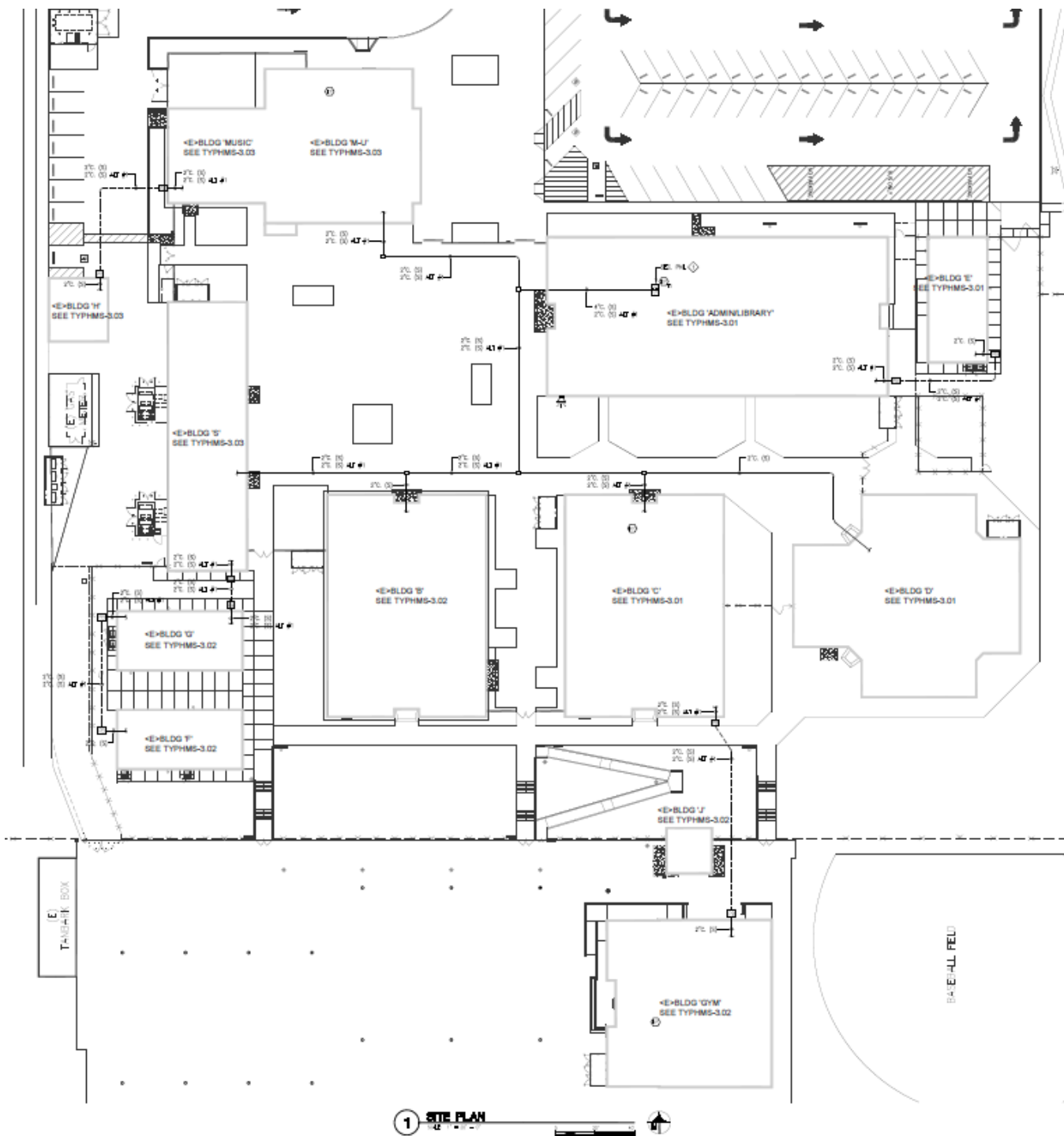


EXHIBIT "A-20"
DESCRIPTION OF SCHOOL SITE
 Attached is the Legal Description for:

Rio Vista Elementary School
611 Pacifica Ave, Bay Point, CA 94565

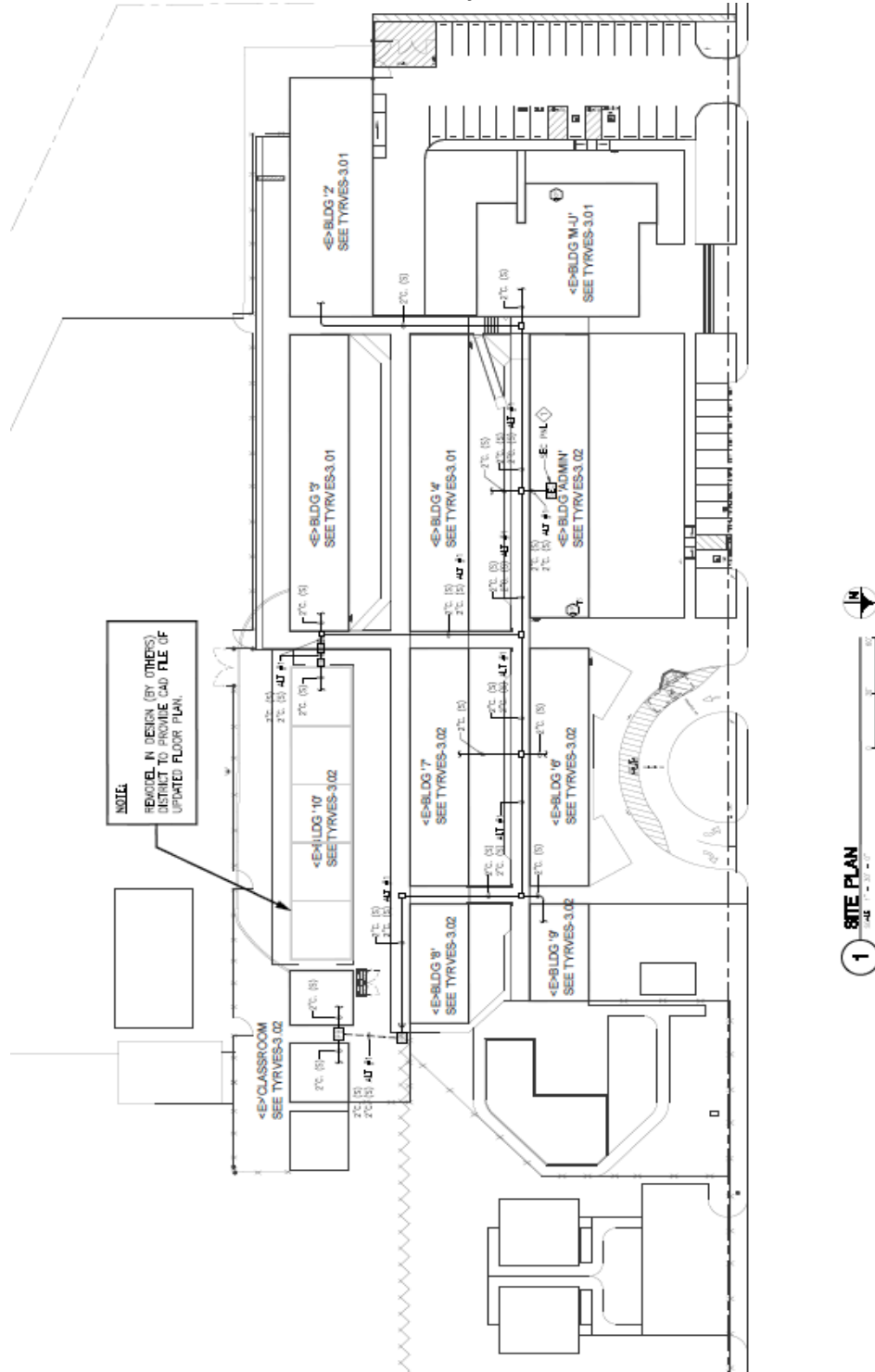


EXHIBIT "A-21"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Shore Acres Elementary School
351 Marina Road, Bay Point, CA 94565

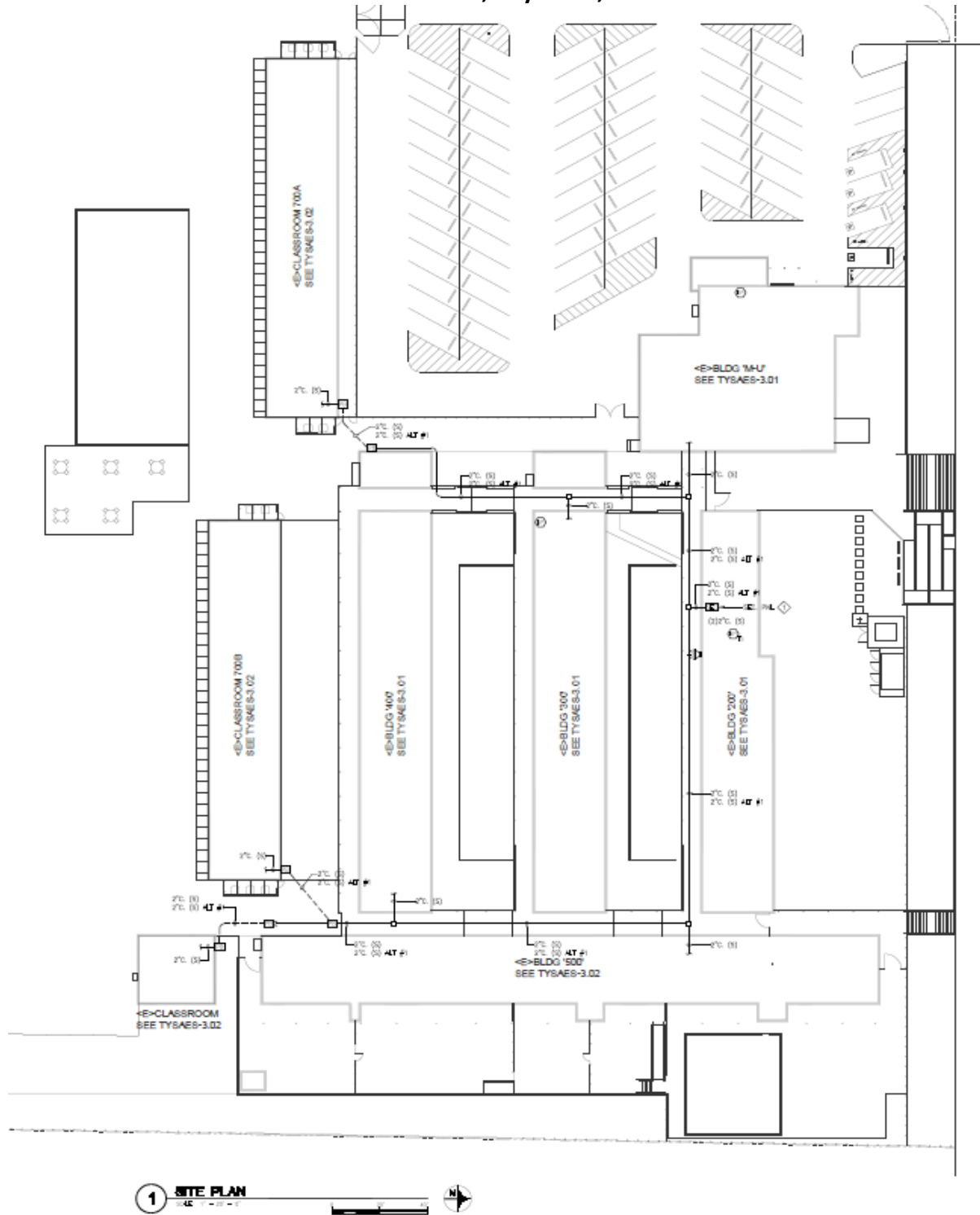


EXHIBIT "A-22"
DESCRIPTION OF SCHOOL SITE
 Attached is the Legal Description for:
Sequoia Middle School
 265 Boyd Road, Pleasant Hill, CA 94523

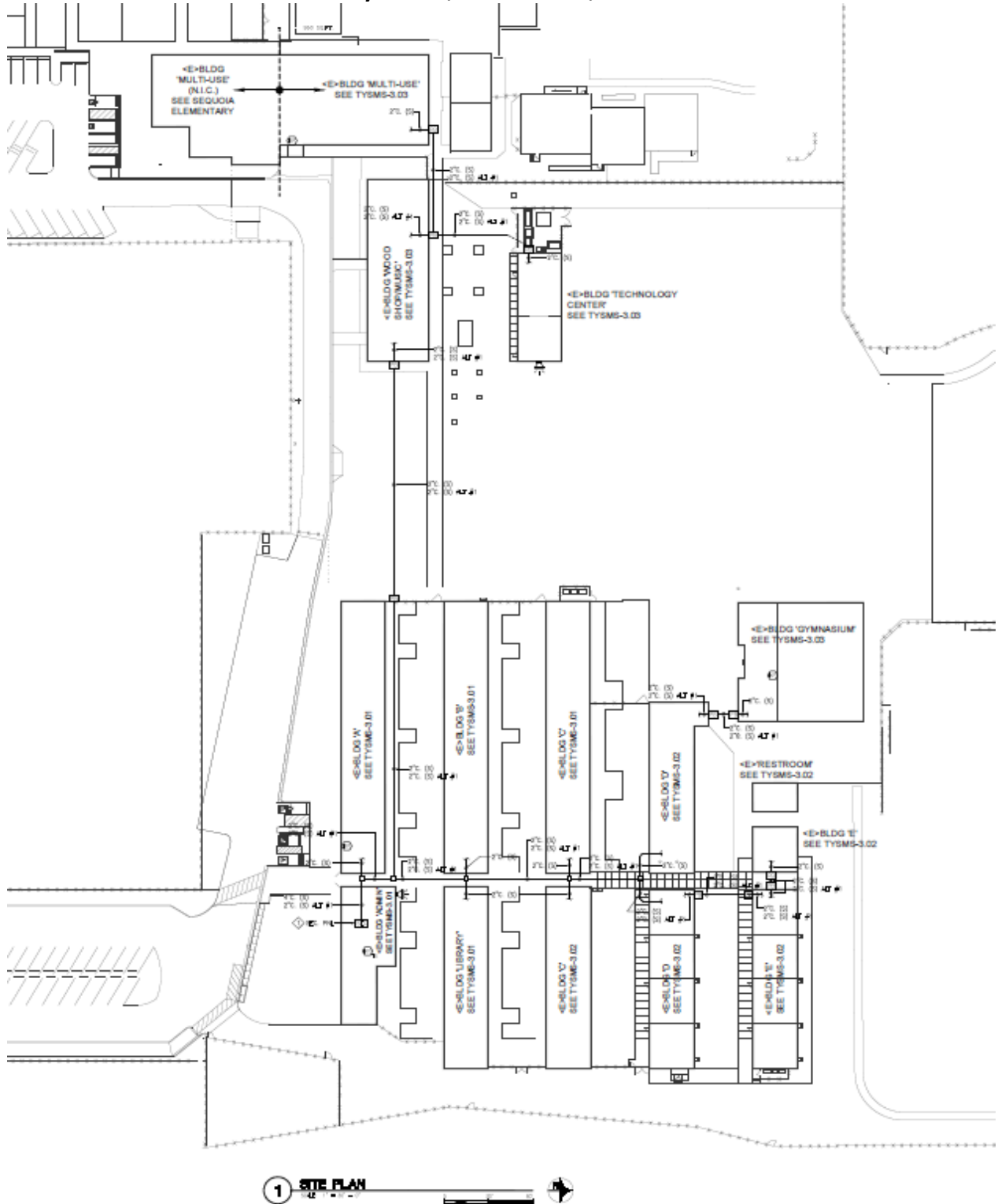


EXHIBIT "A-23"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Sun Terrace Elementary School
2448 Floyd Lane, Concord, CA 94520

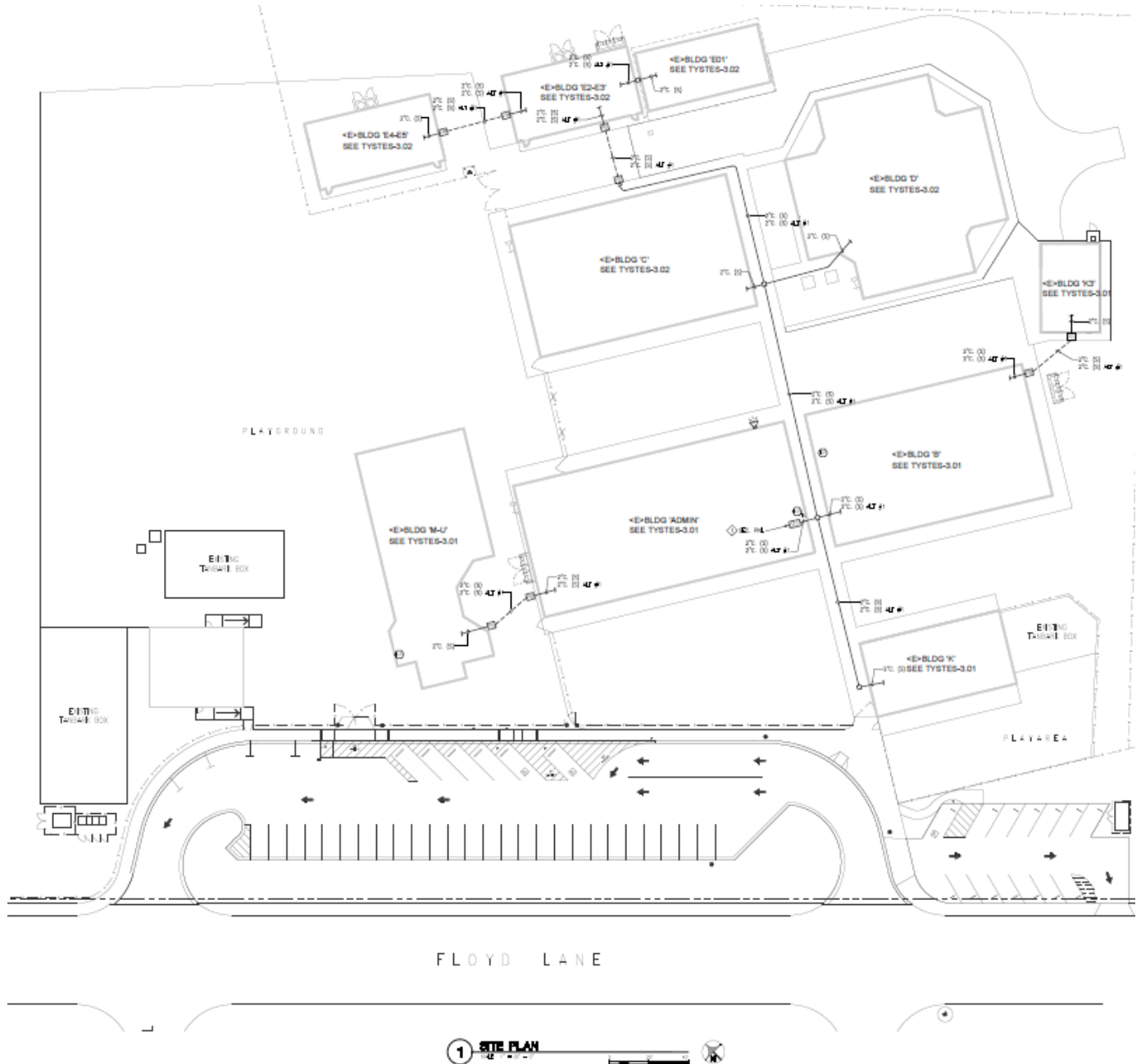


EXHIBIT "A-24"

DESCRIPTION OF SCHOOL SITE

Attached is the Legal Description for:
Wren Ave Elementary School
3339 Wren Avenue, Concord, CA 94519

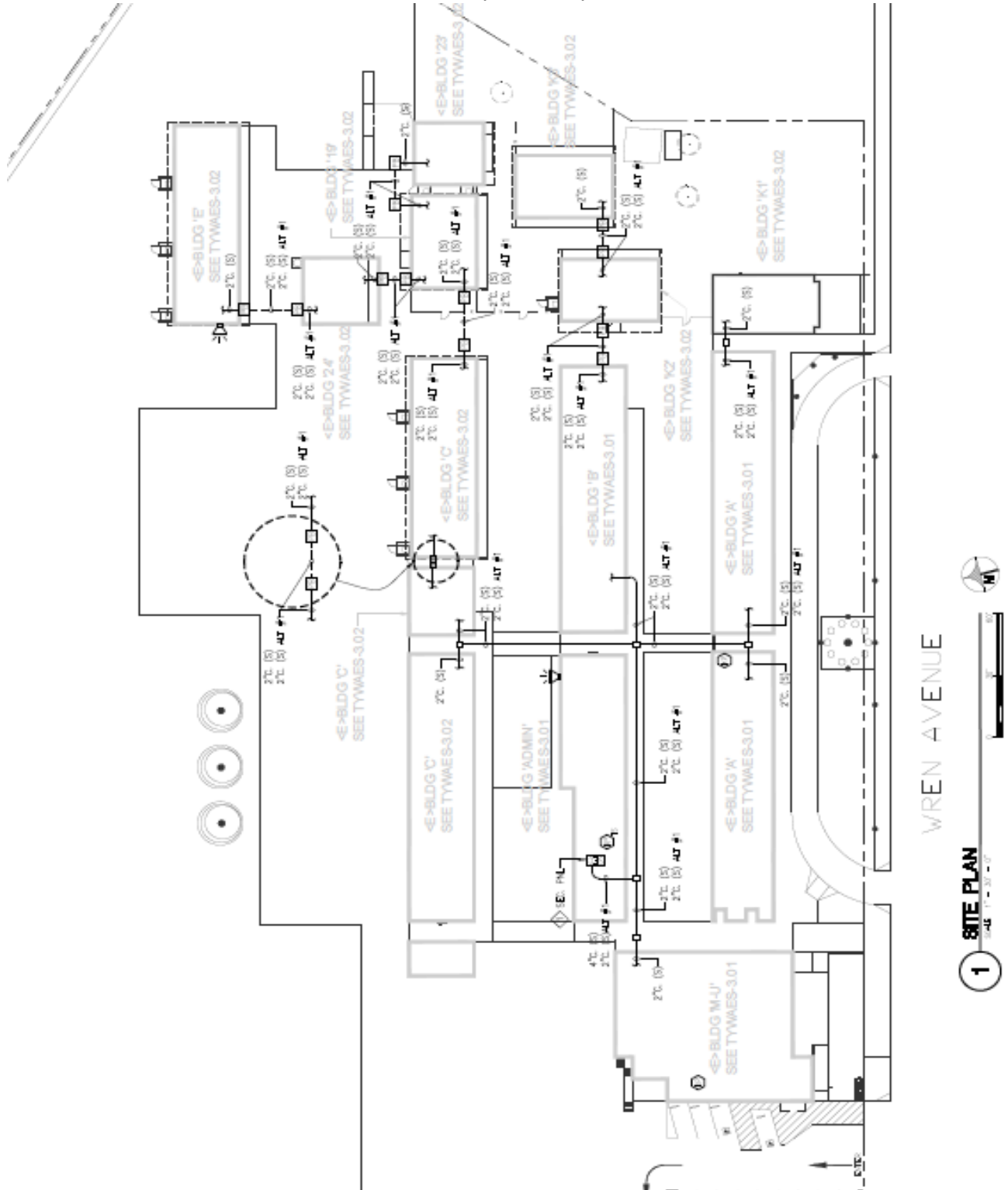


EXHIBIT "A-25"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Bancroft Elementary School
2200 Parish Drive, Walnut Creek, CA 94596

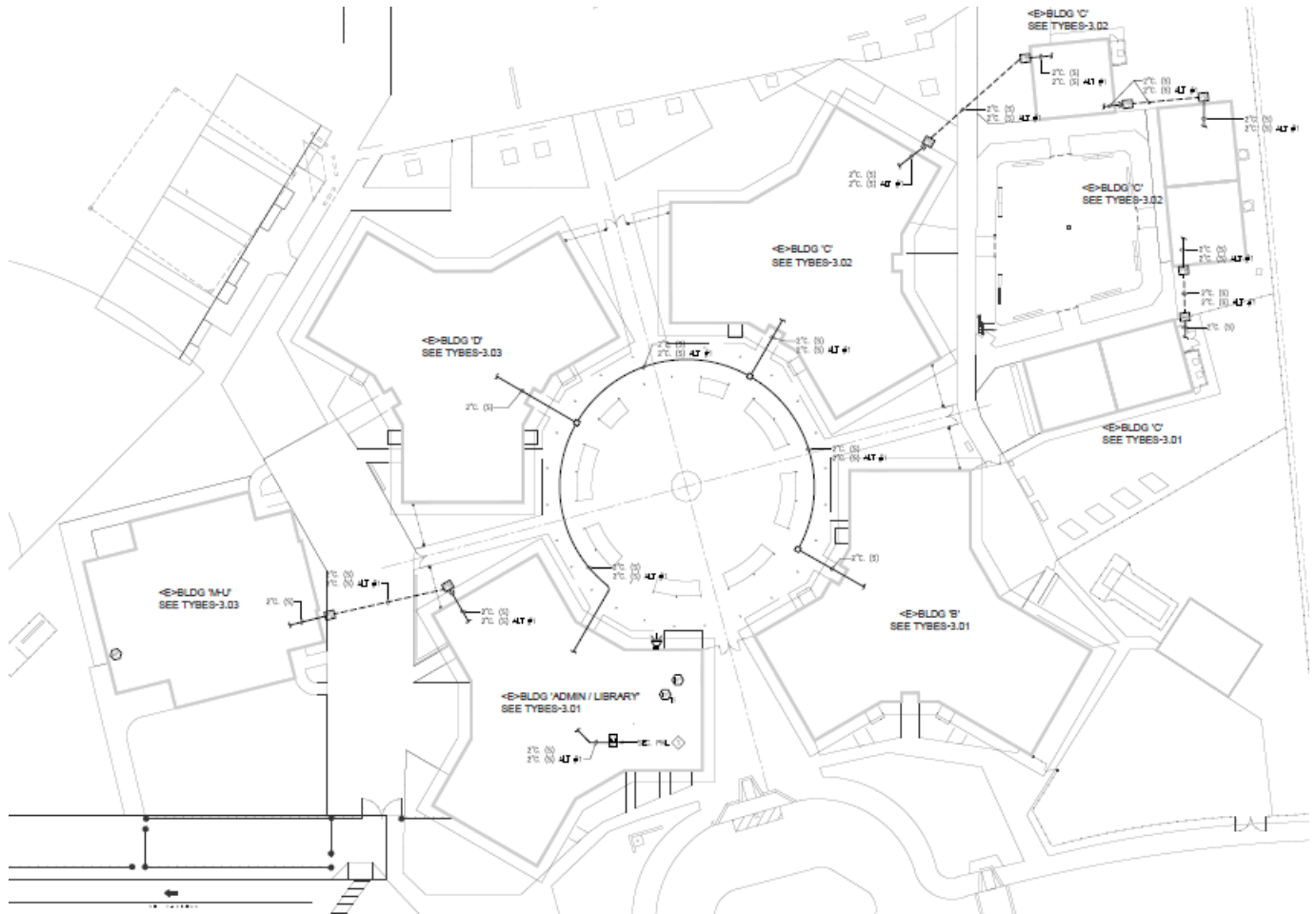


EXHIBIT "A-27"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Pleasant Hill Elementary School
2097 Oak Park Blvd. Pleasant Hill, CA 94523

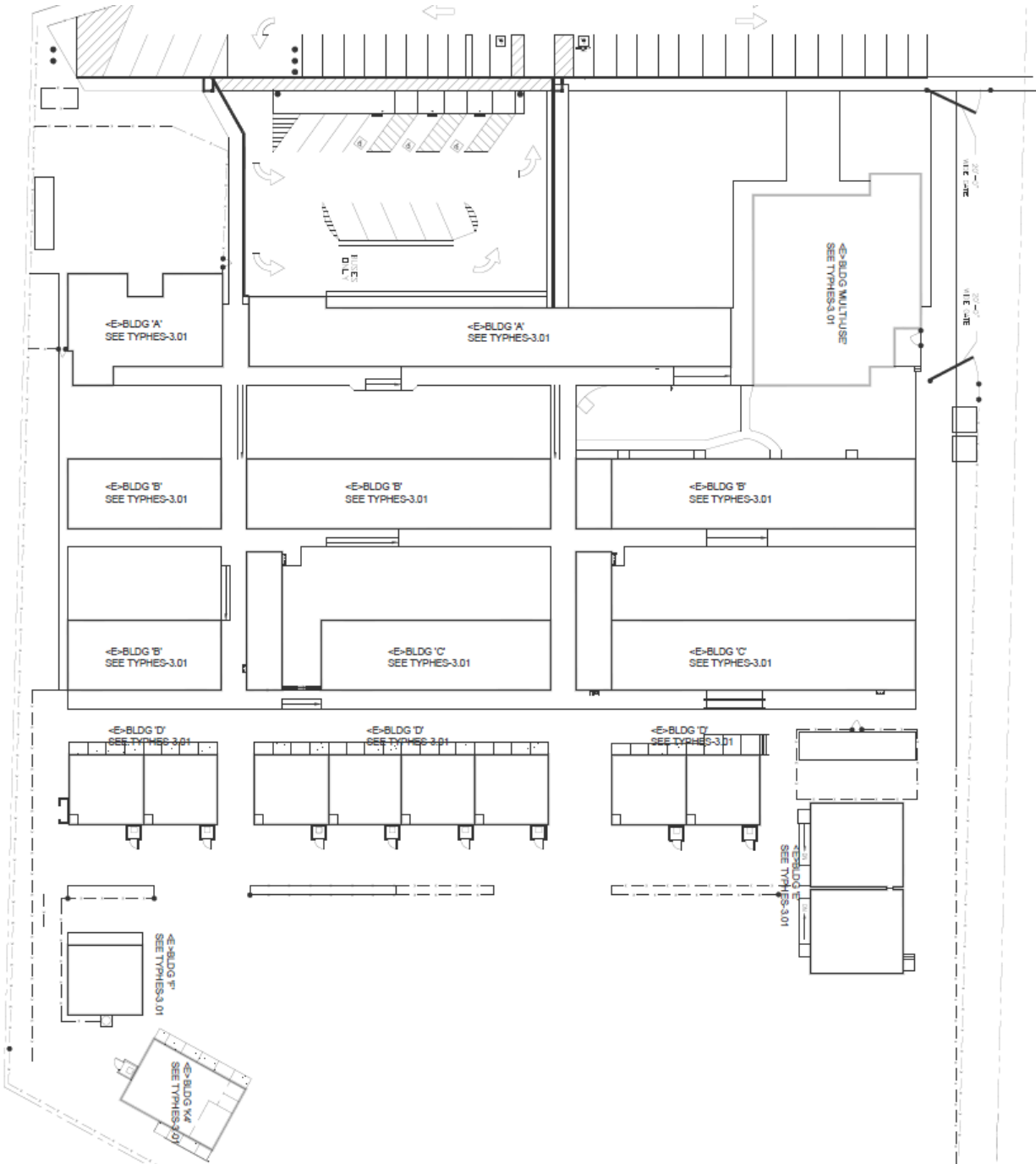


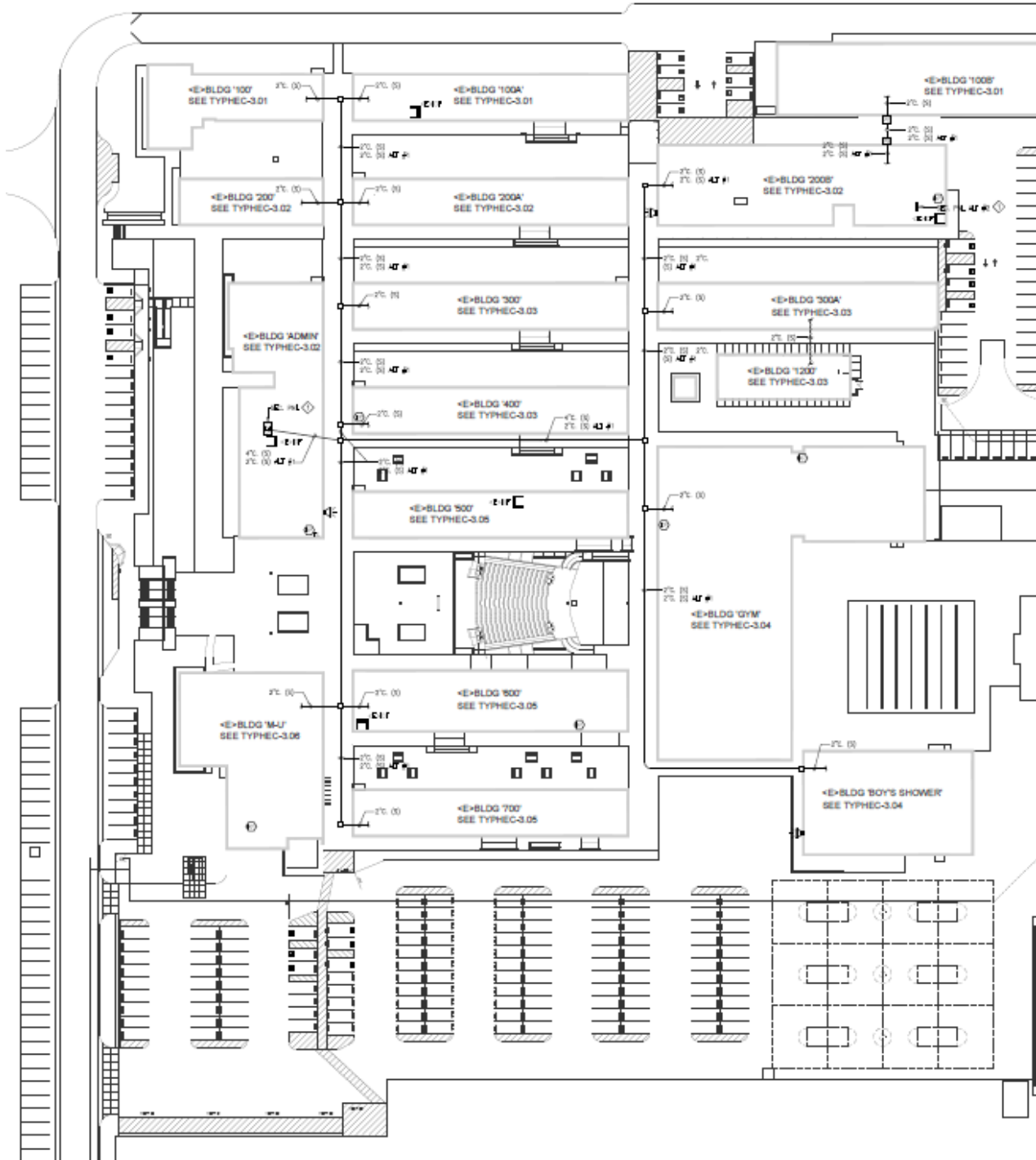
EXHIBIT "A-28"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Olympic High School
2730 Salvio Street, Concord CA 94519



EXHIBIT "A-29"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Pleasant Hill Middle School / Education Centers
One Santa Barbara Road, Pleasant Hill CA 94523



1 SITE PLAN

EXHIBIT "A-30"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Sequoia Elementary School
277 Boyd Drive, Pleasant Hill CA 94523

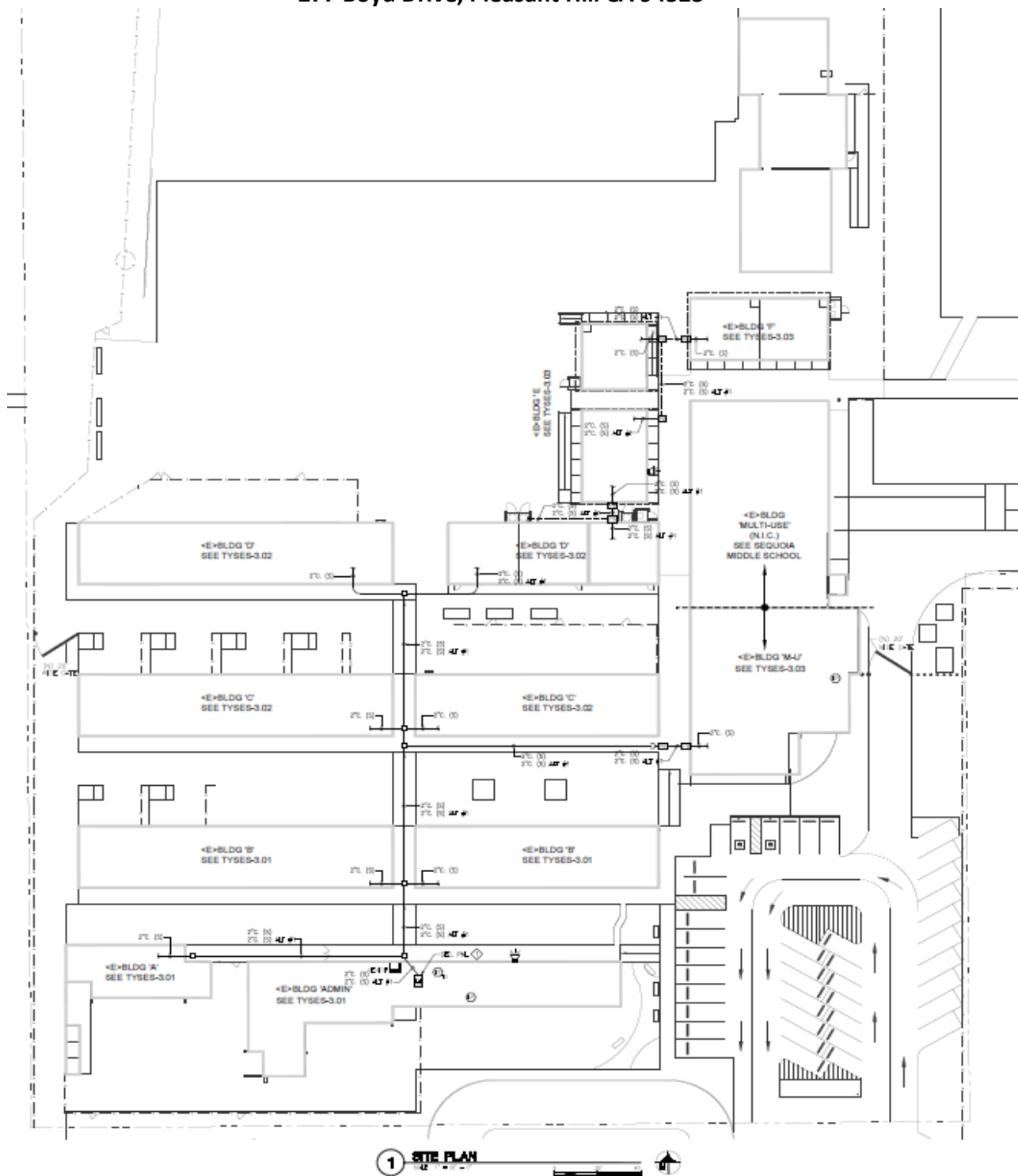


EXHIBIT "A-31"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Strandwood Elementary School
416 Gladys Drive, Pleasant Hill, CA 94523

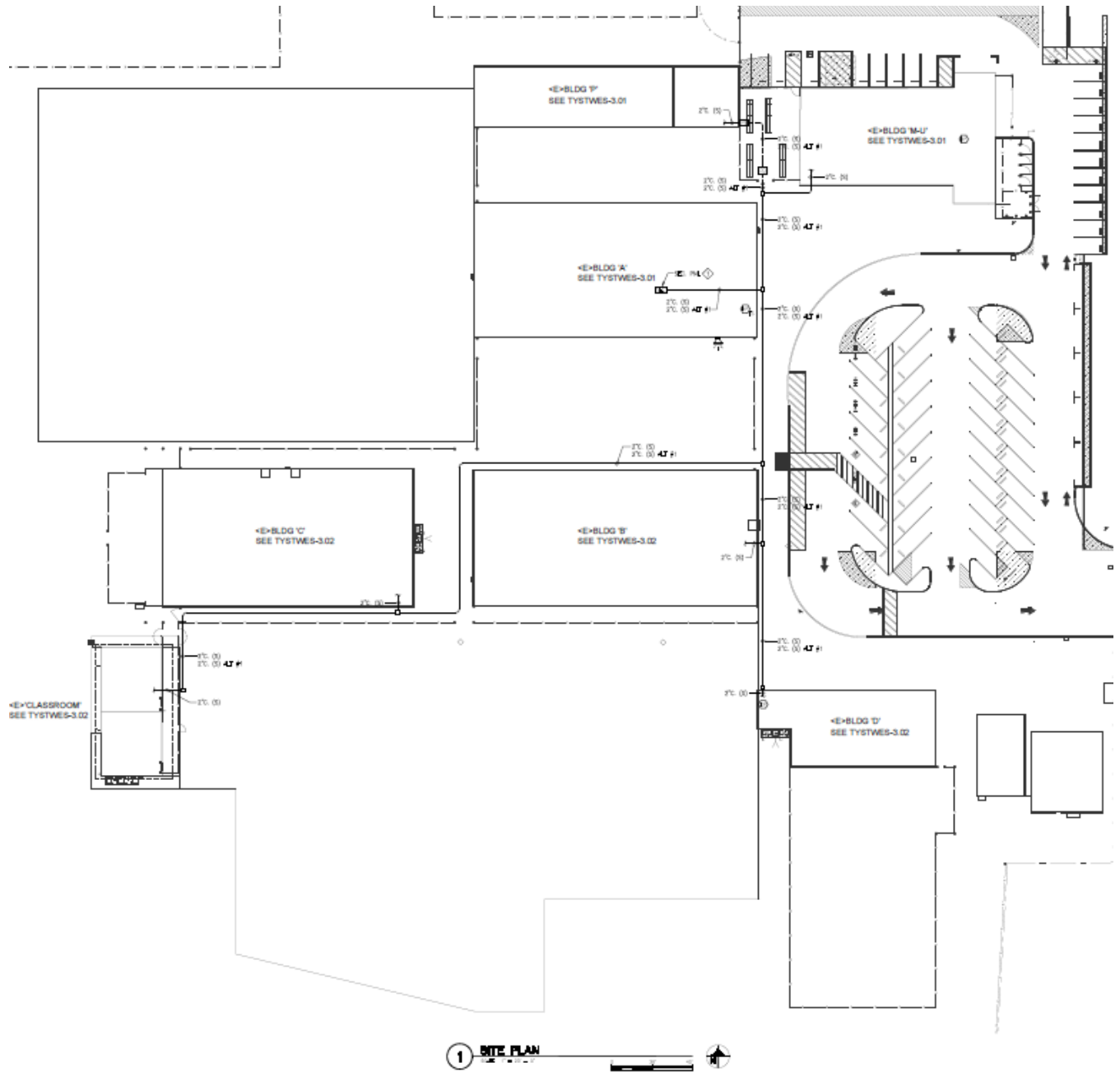
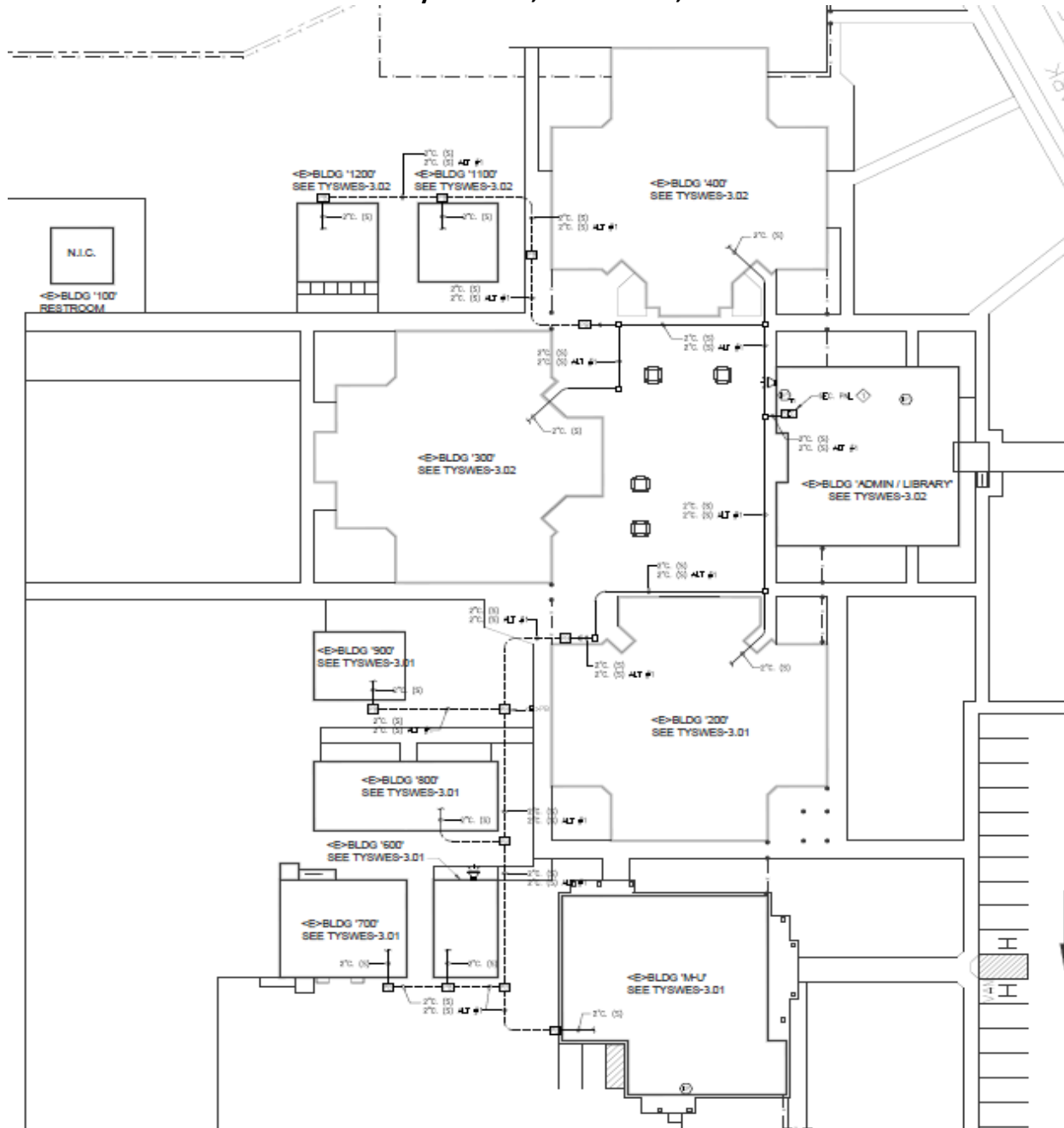


EXHIBIT "A-32"
DESCRIPTION OF SCHOOL SITE
 Attached is the Legal Description for:

Silverwood Elementary School
1649 Claycord Ave, Concord CA, 94521



1 SITE PLAN

EXHIBIT "A-33"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Valhalla Elementary School
530 Kiki Drive, Pleasant Hill, CA 94523

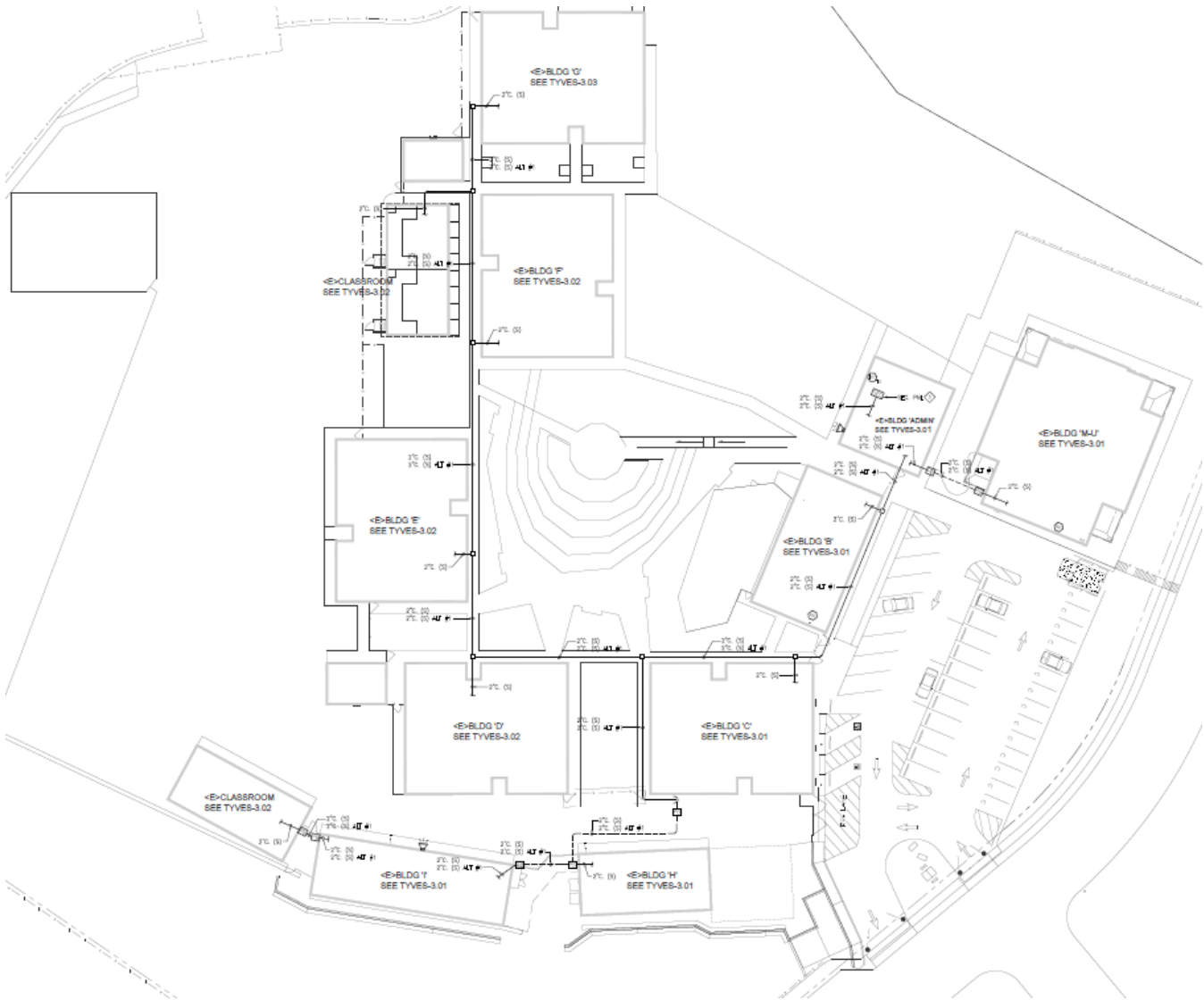
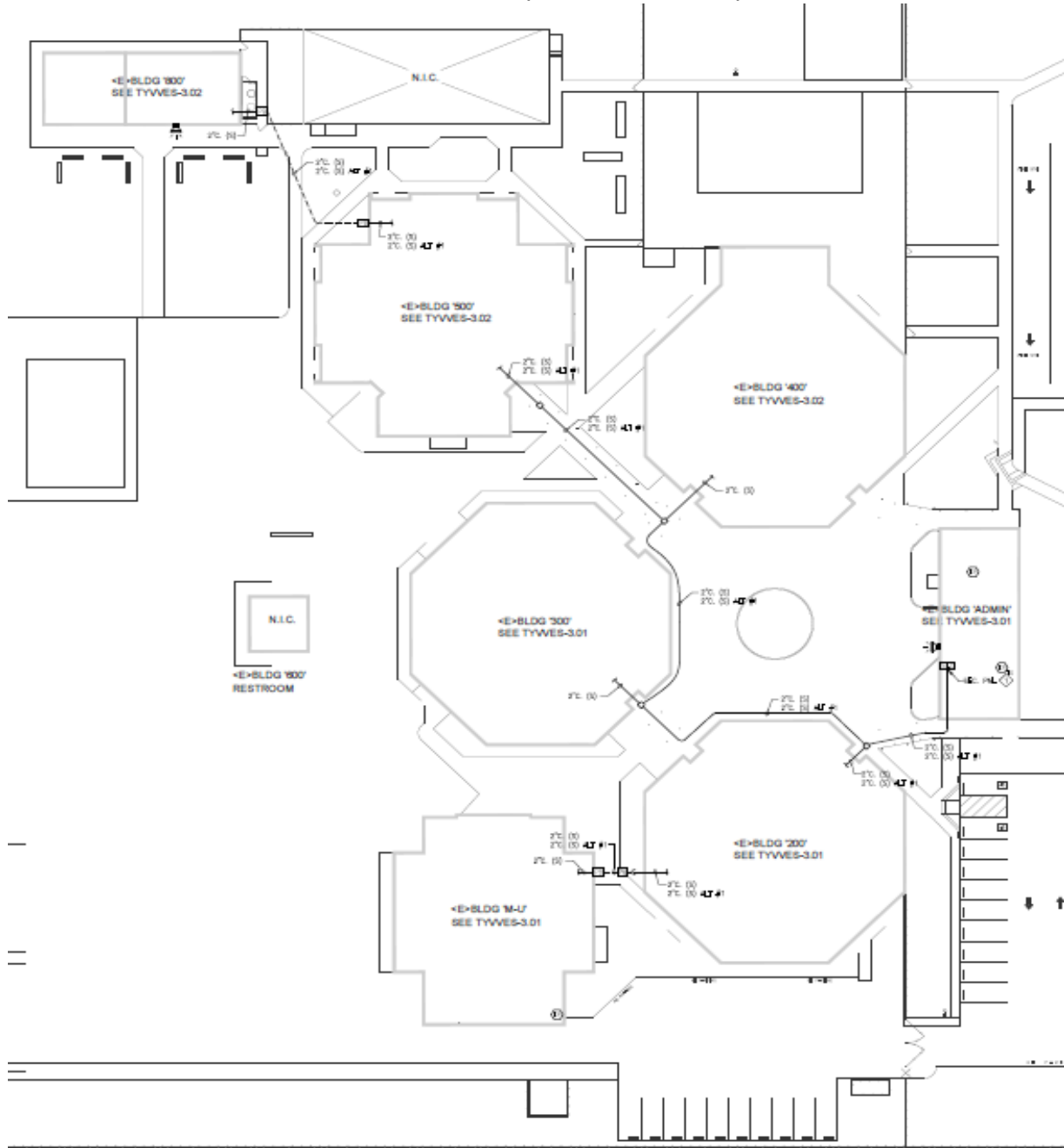


EXHIBIT "A-34"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Valle Verde Elementary School
3275 Peachwillow Lane, Walnut Creek CA, 94598



1 SITE PLAN

EXHIBIT "A-35"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Woodside Elementary School
761 San Simeon Drive, Concord CA, 94518

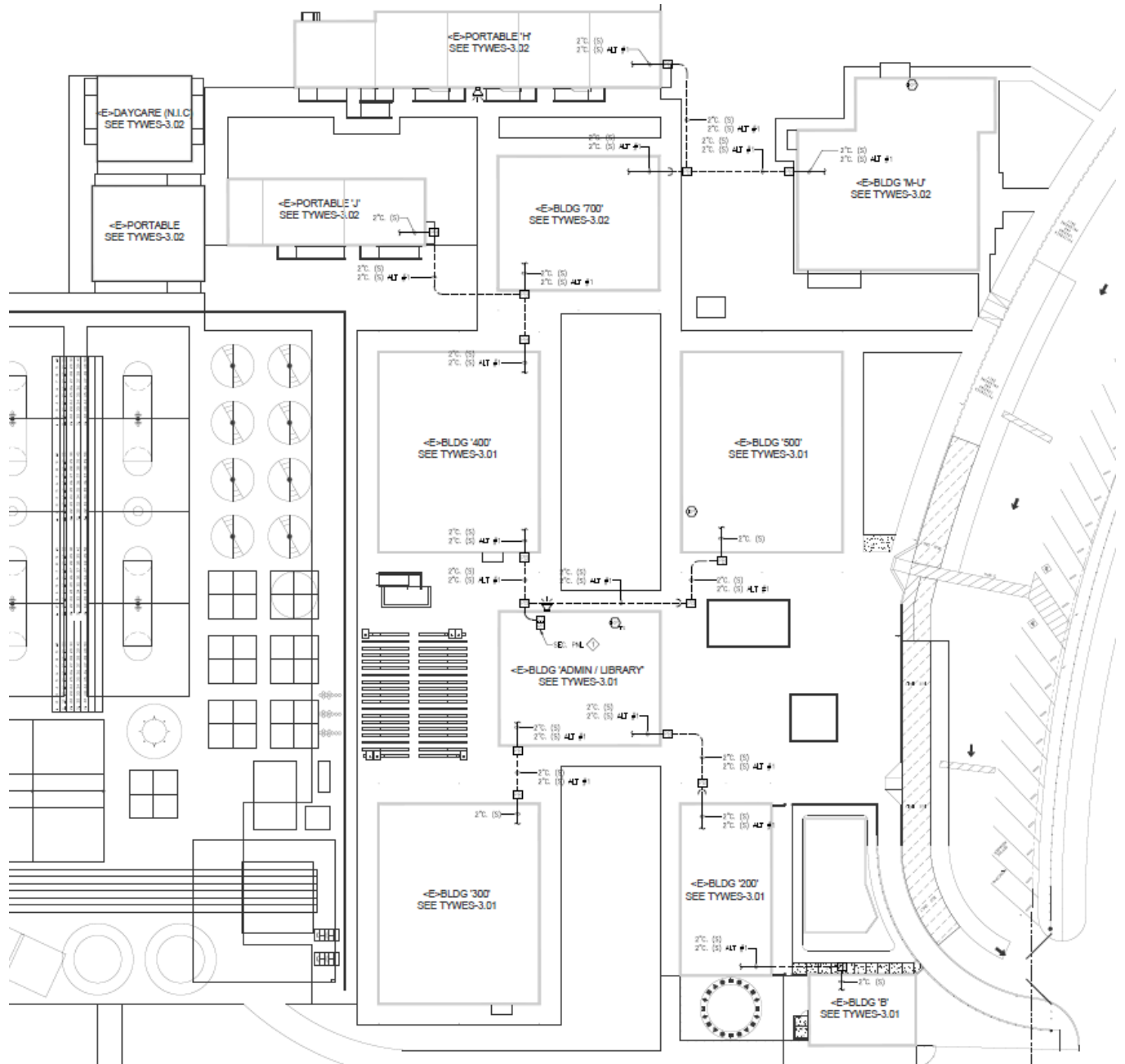


EXHIBIT "A-36"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Walnut Acres Elementary School
180 Cerezo Drive, Walnut Creek, CA 94596

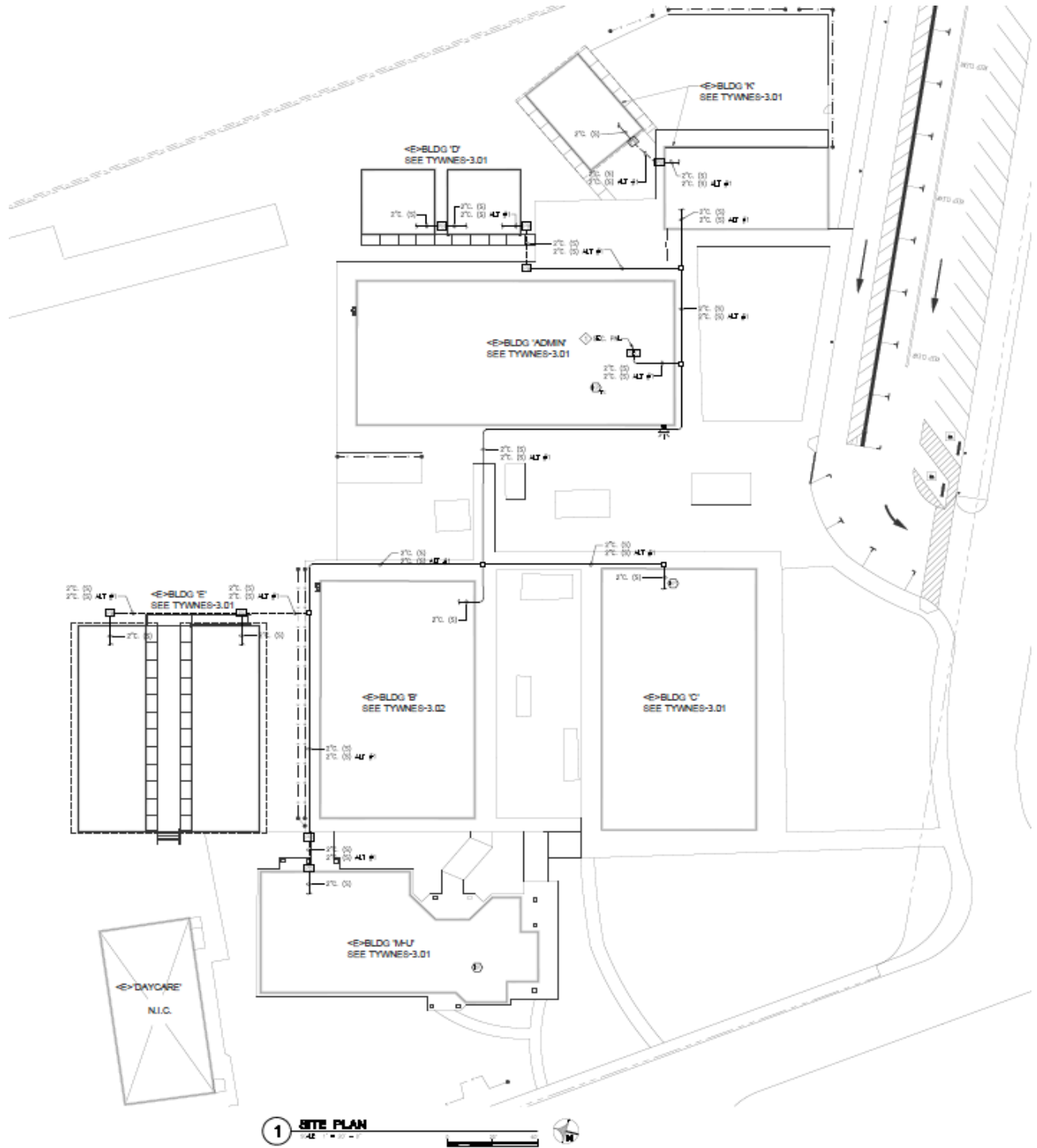


EXHIBIT "A-37"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:
Westwood Elementary School
1748 West Street, Concord, CA 94521

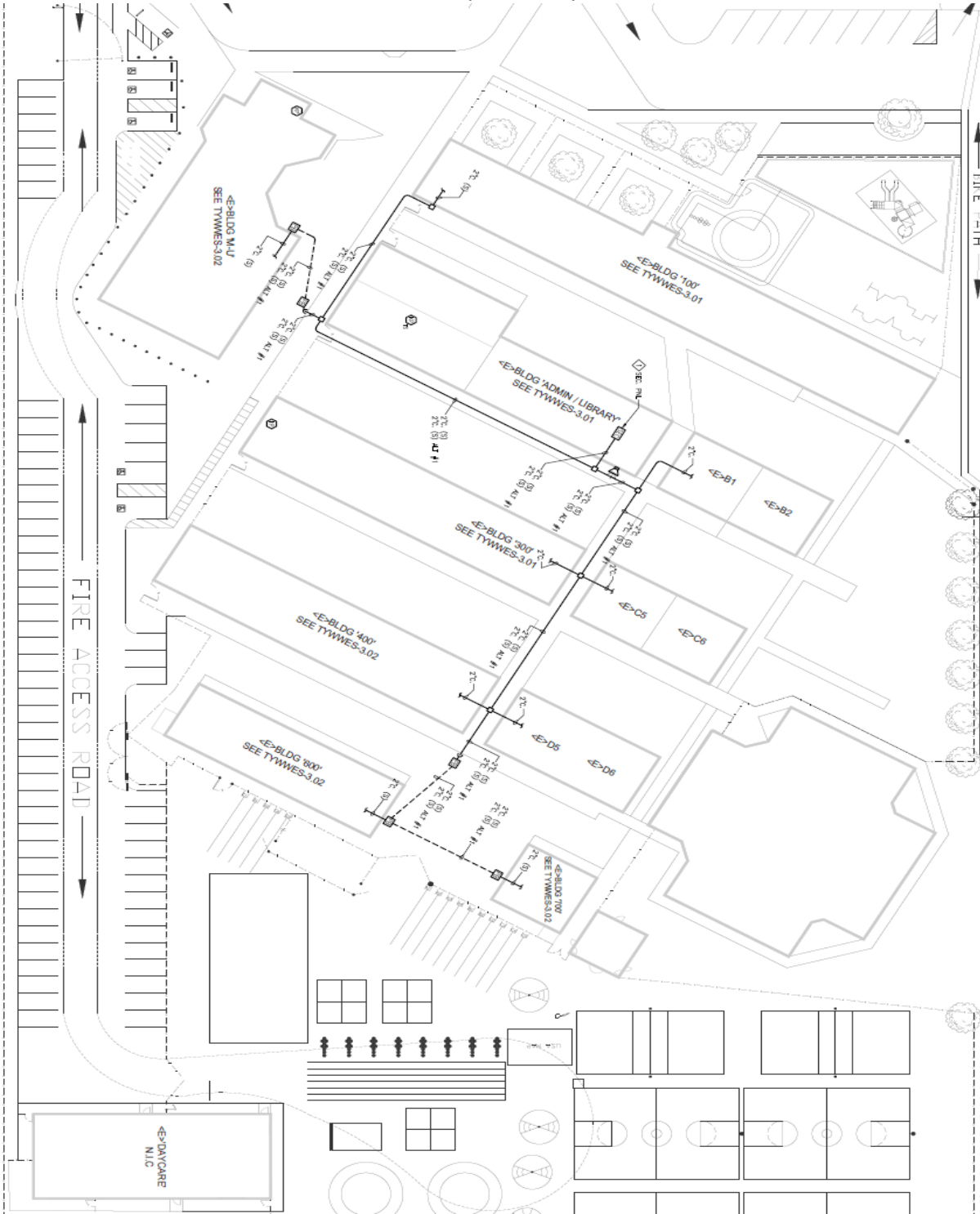


EXHIBIT "A-38"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Delta View Elementary School
2916 Rio Verde, Bay Point, CA 94565

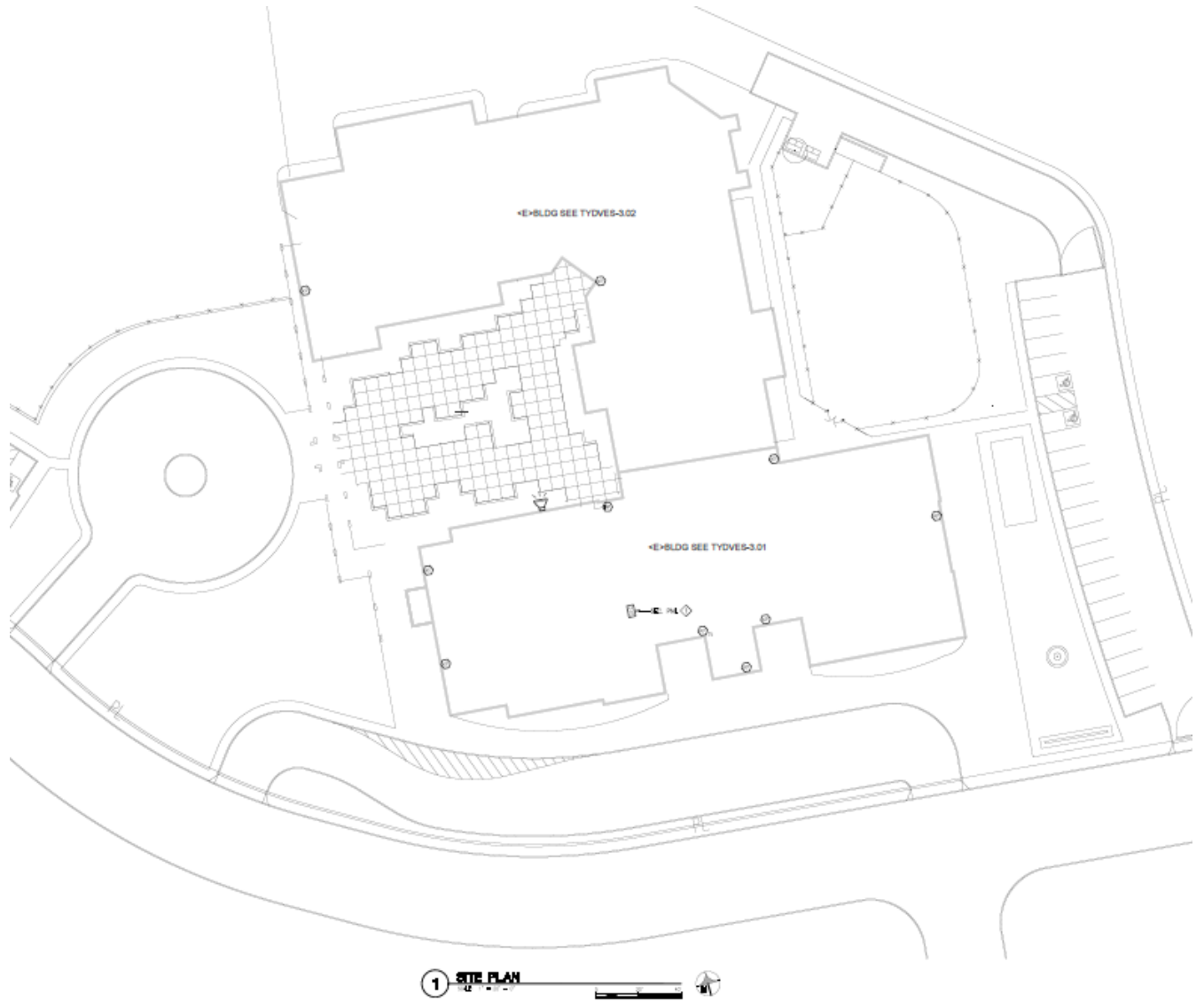


EXHIBIT "A-40"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Gregory Gardens Elementary School
1 Corritone Court, Pleasant Hill, CA 94523

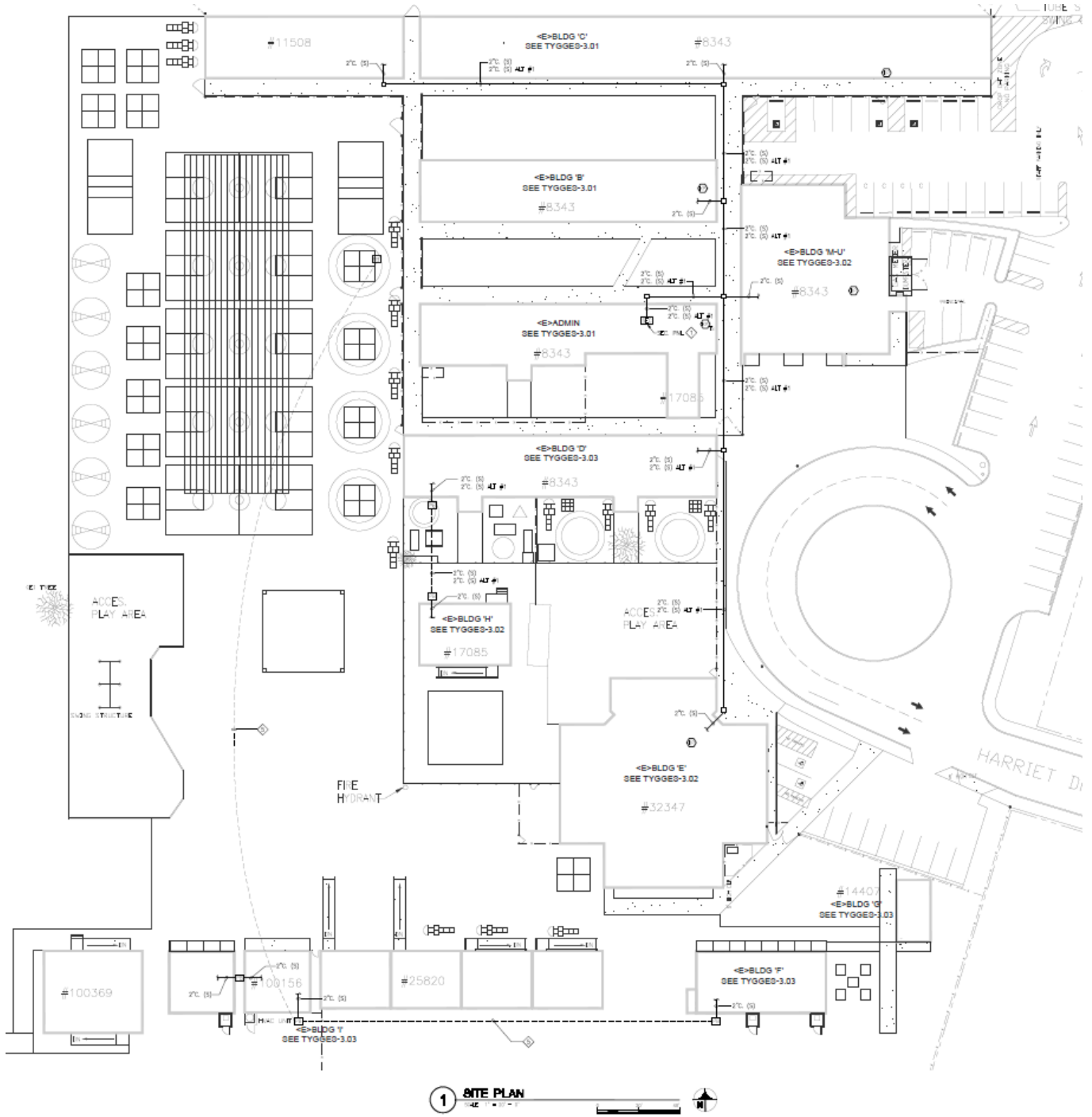


EXHIBIT "A-41"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

James Dent Administration Center
1936 Carlotta Drive, Concord, CA 94519

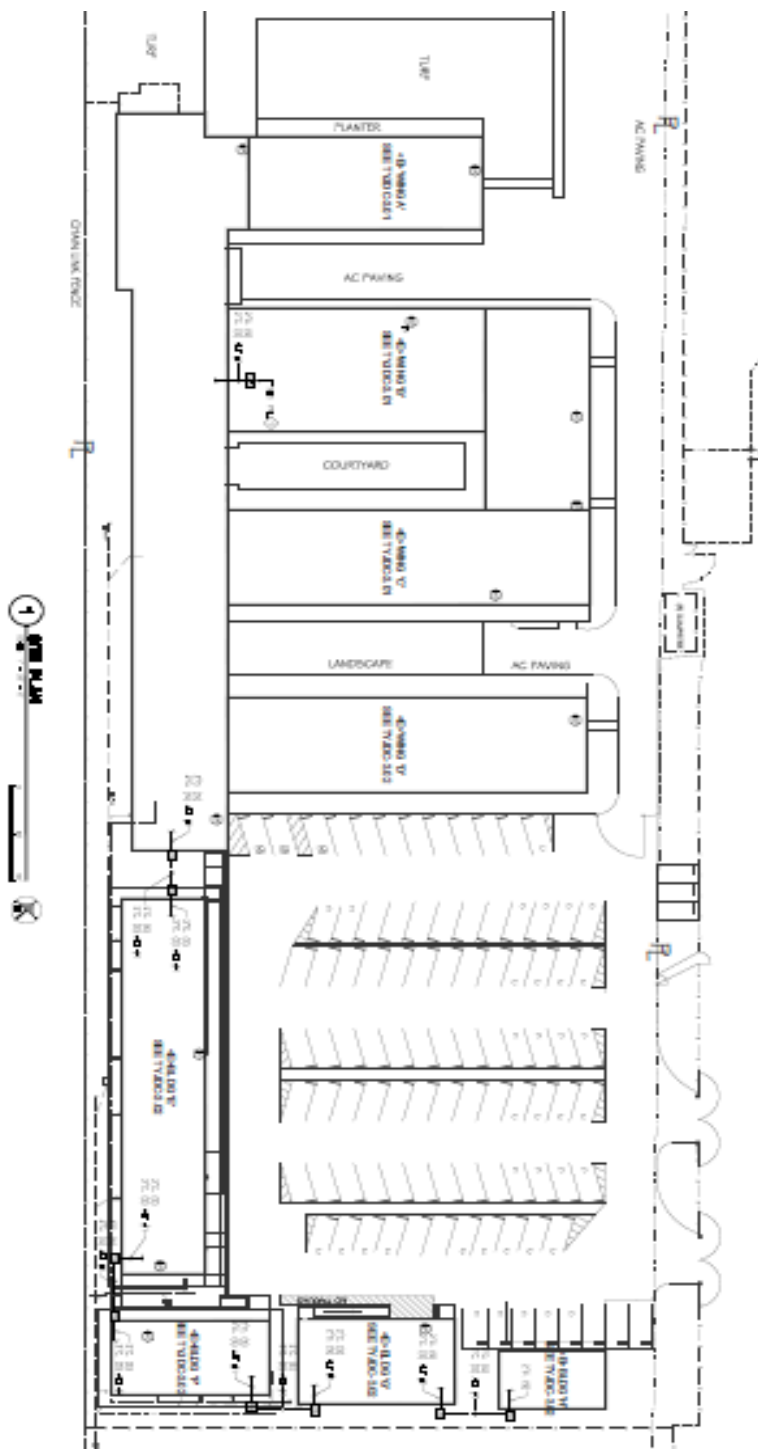


EXHIBIT "A-42"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Loma Vista Adult Center
1266 San Carlos Avenue, Concord, CA 94518

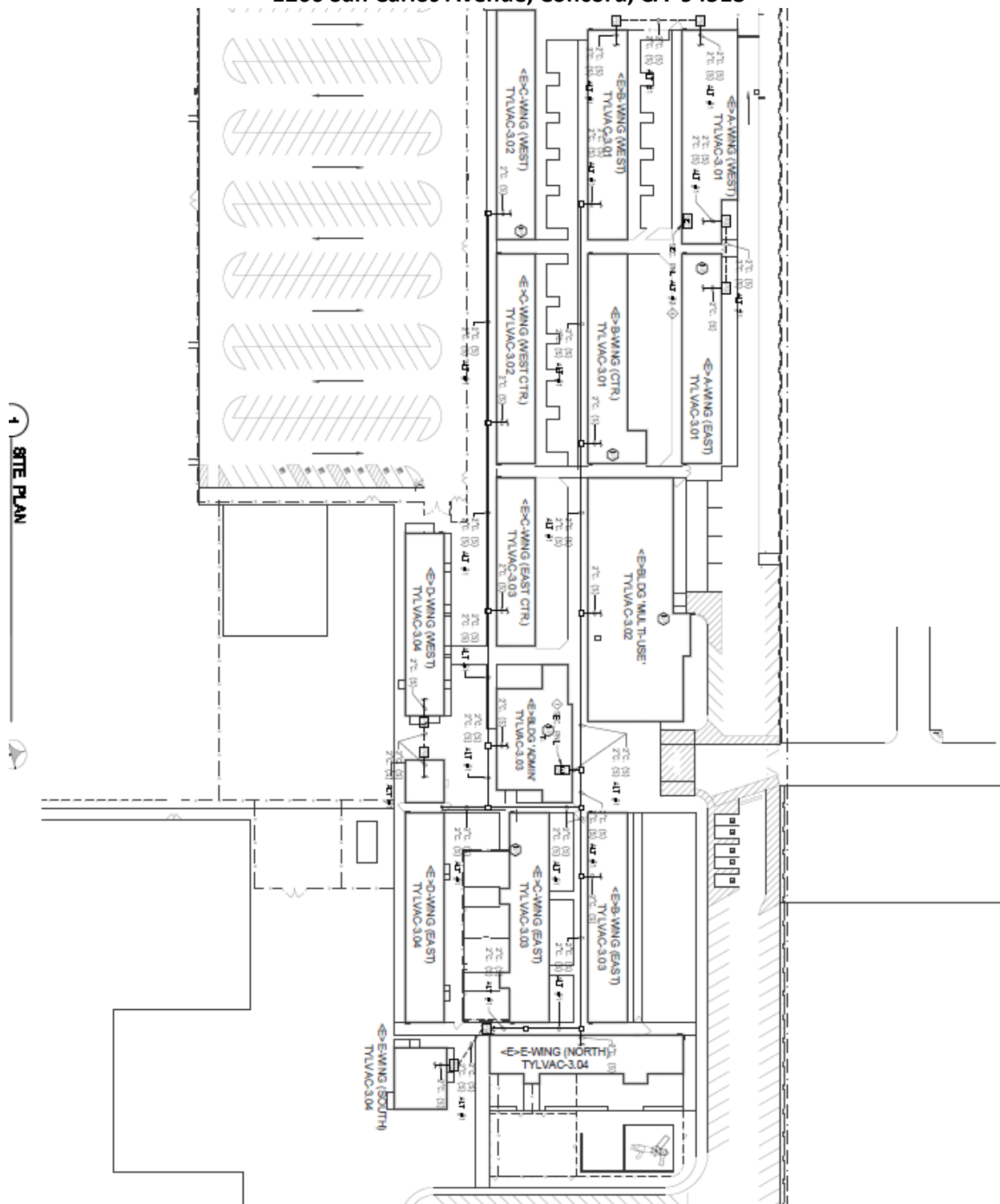


EXHIBIT "A-43"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Shadelands Center
1860 Silverwood Drive, Concord, CA 94519

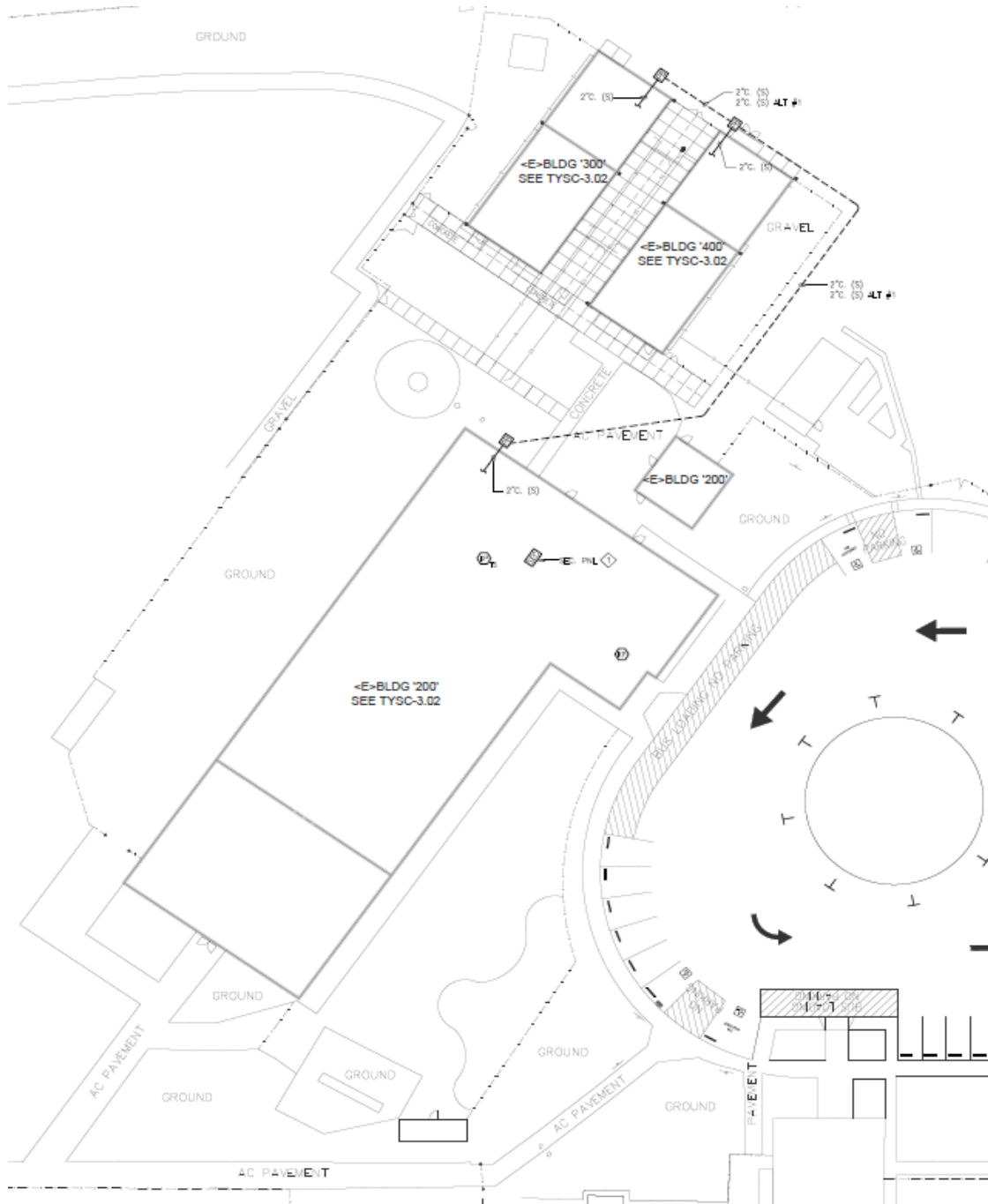


EXHIBIT "A-4"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Sunrise Elementary School
1861 Silverwood Drive, Concord, CA 94519

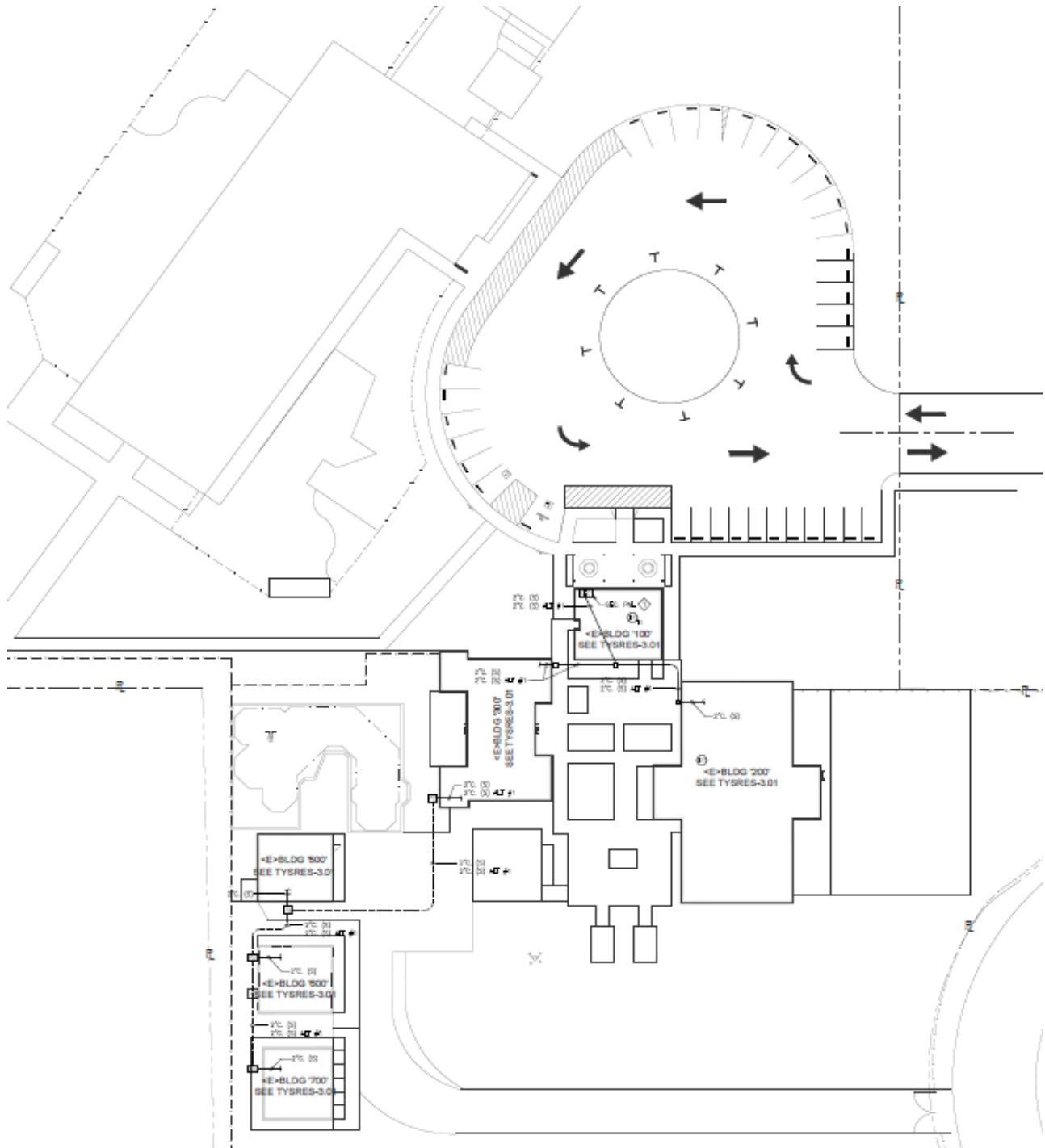


EXHIBIT "A-45"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Ayers Elementary School
5120 Myrtle Drive, Concord, CA 94521

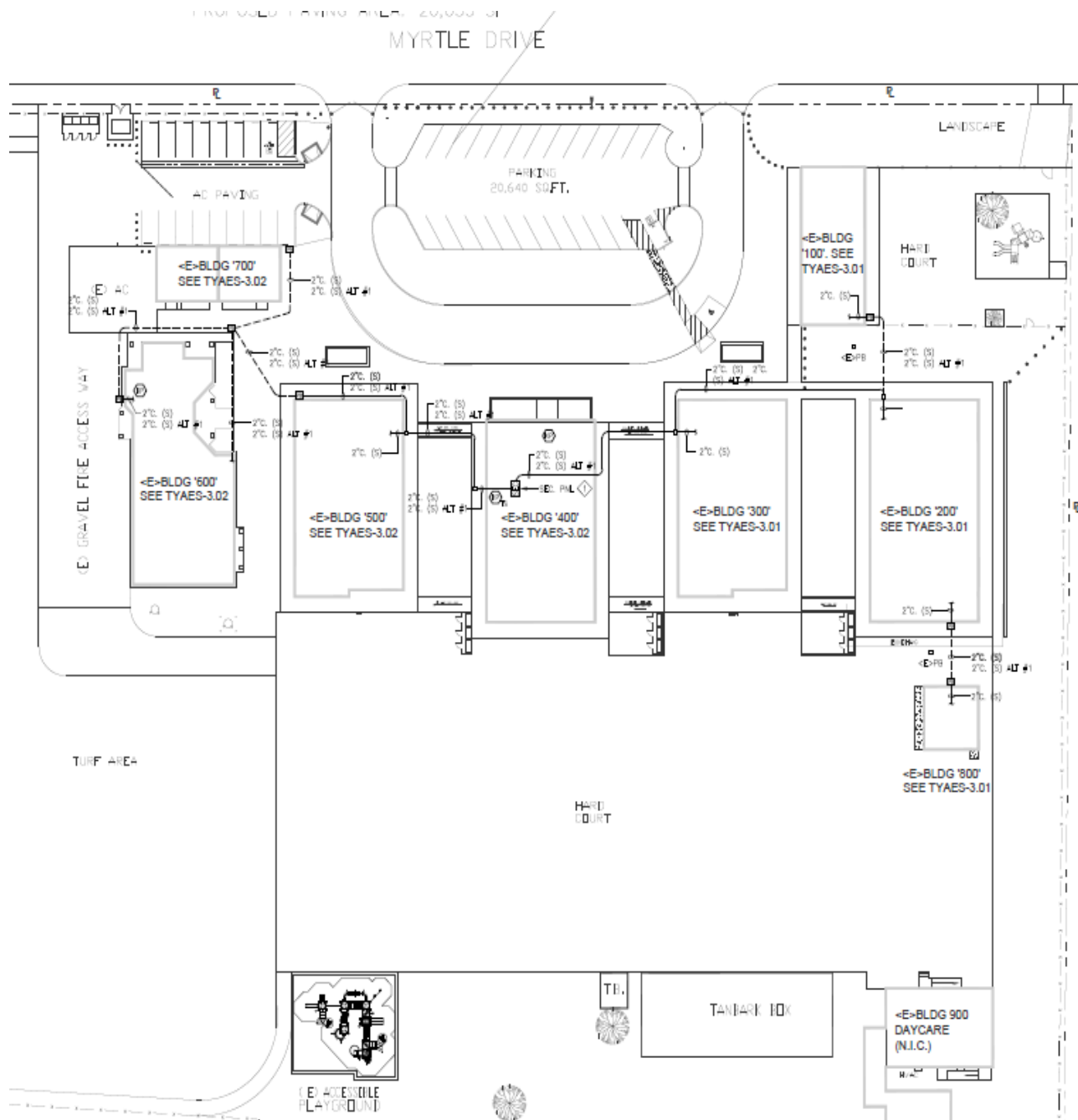
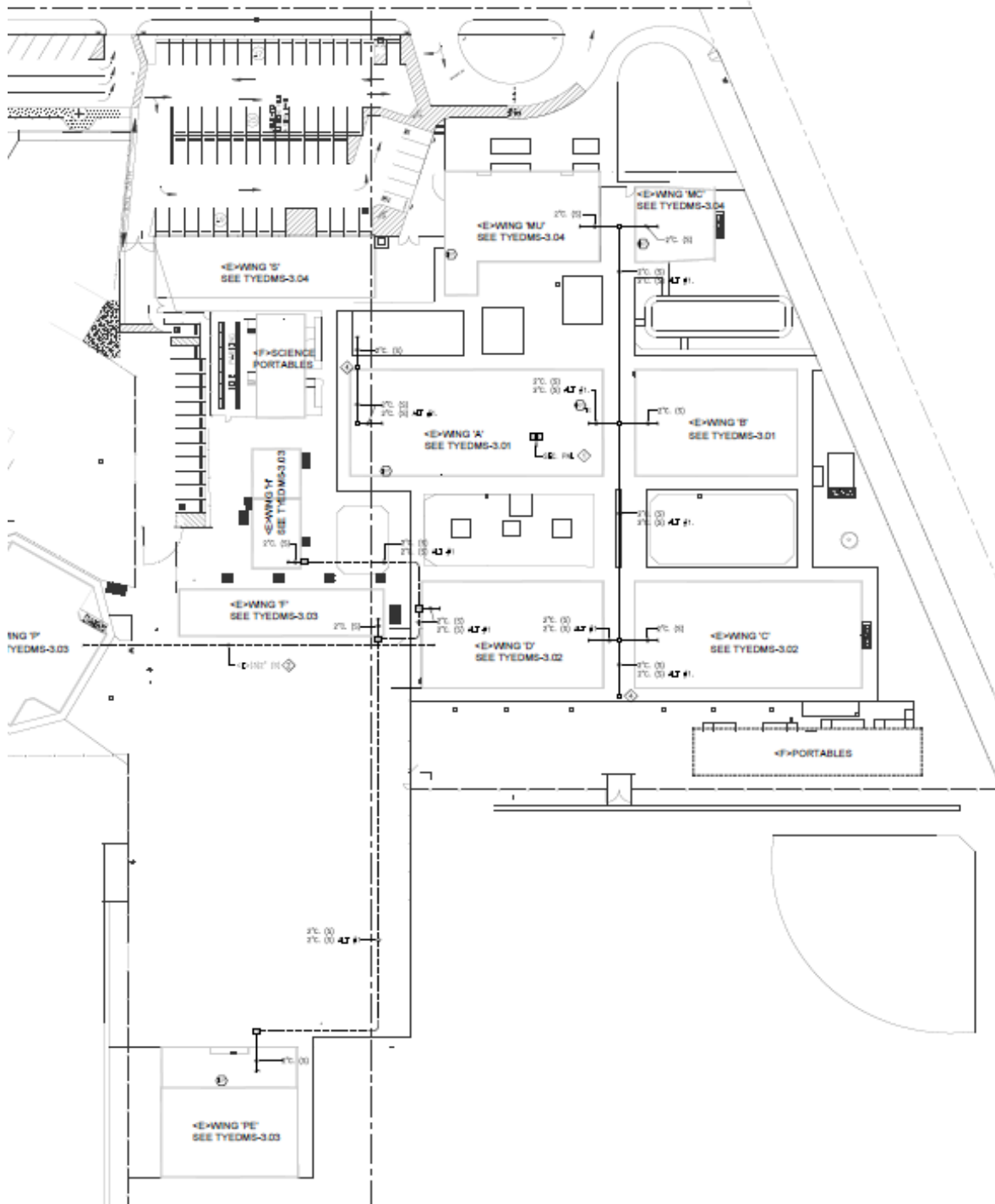


EXHIBIT "A-47"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

El Dorado Middle School
1750 West Street, Concord, CA 94521



1 SITE PLAN

EXHIBIT "A-48"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Foothill Middle School
2775 Cedro Lane, Walnut Creek, CA 94598

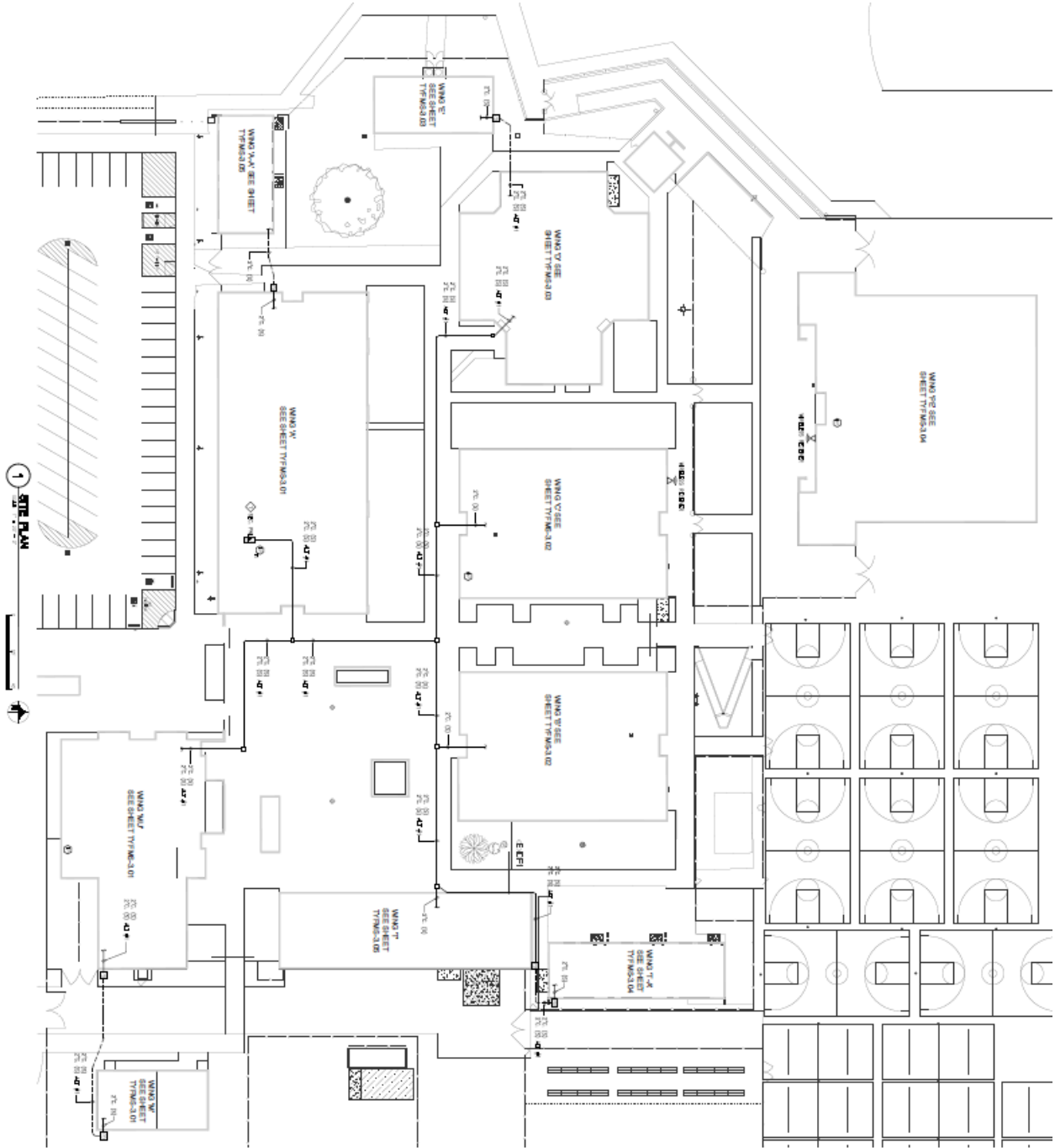


EXHIBIT "A-49"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Hidden Valley Elementary School
500 Glacier Drive, Martinez, CA 94553

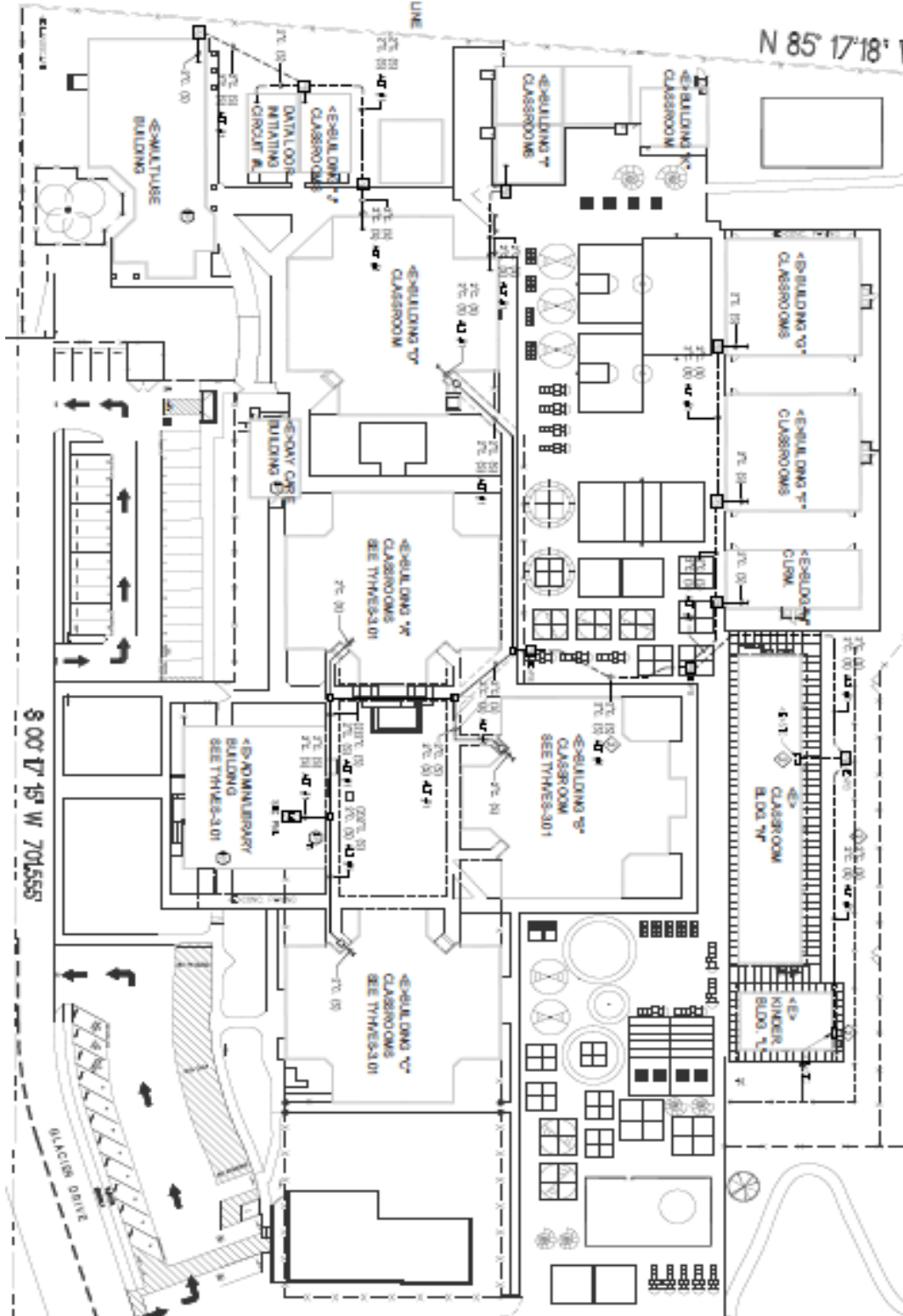


EXHIBIT "A-50"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Mt Diablo Elementary School
5880 Mt. Zion Drive, Clayton, CA 94517

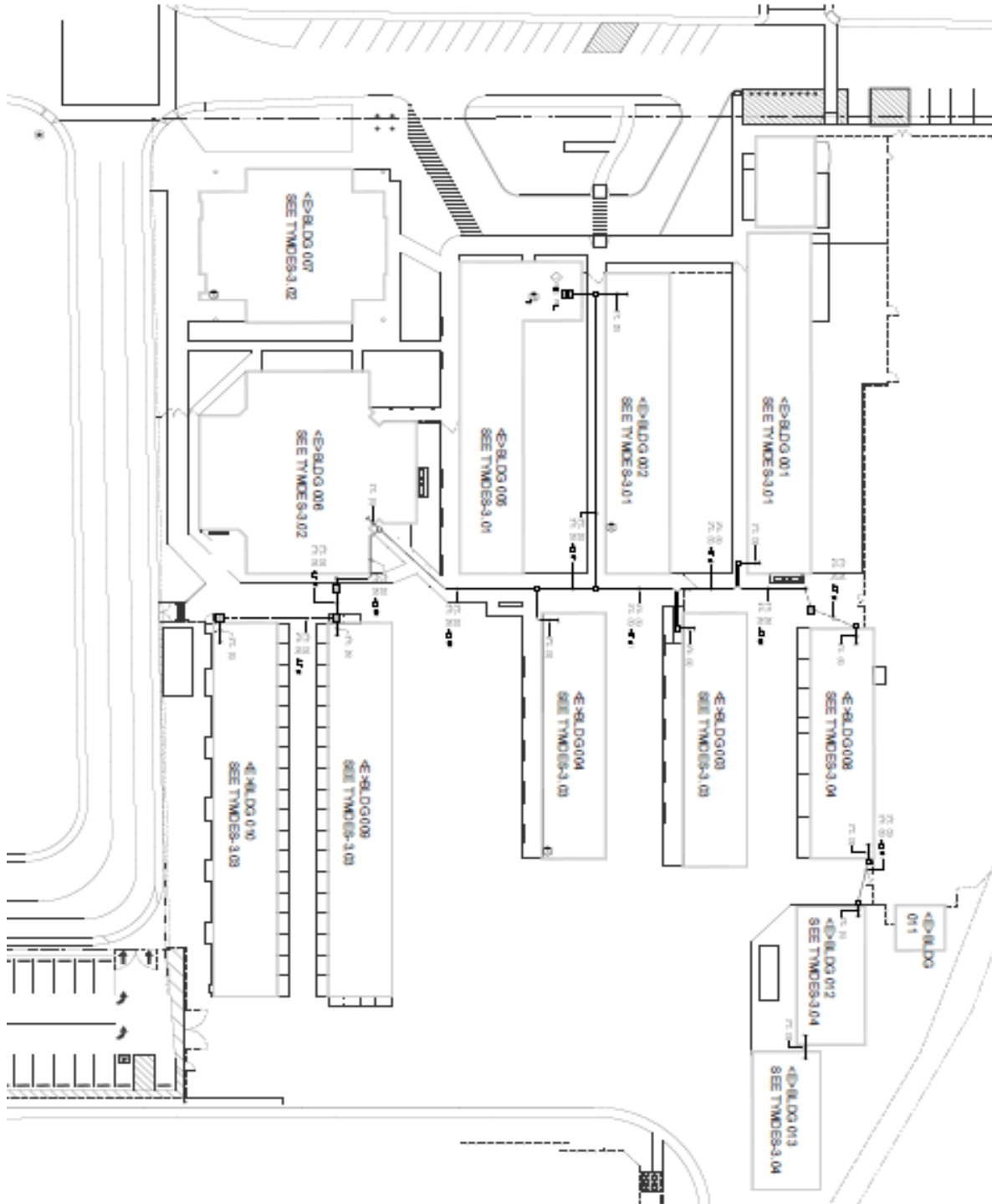


EXHIBIT "A-51"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Oak Grove Middle School
2050 Minert Road, Concord, CA 94518

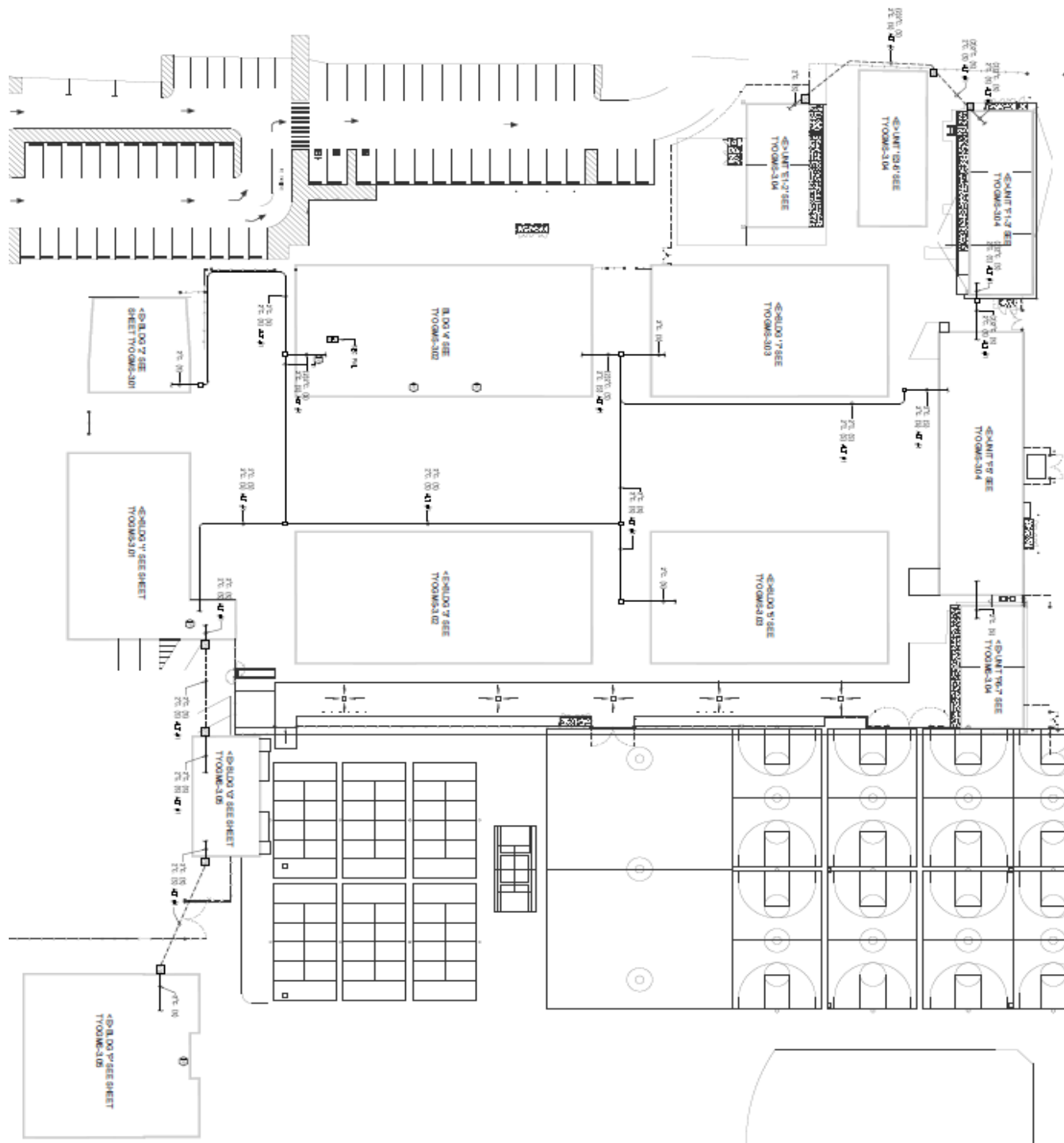


EXHIBIT "A-52"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Riverview Middle School
205 Pacifica Avenue, Bay Point, CA 94565

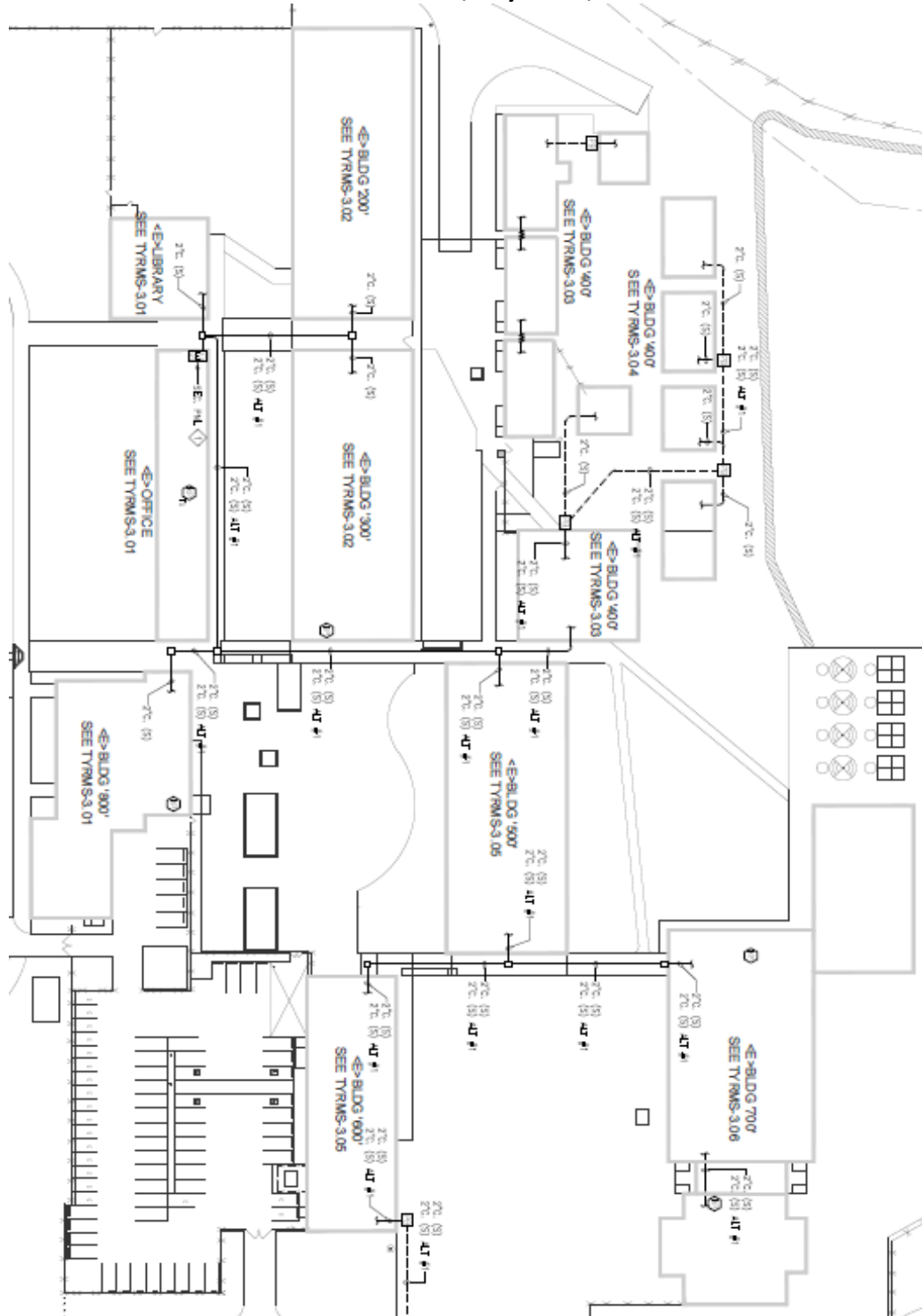


EXHIBIT "A-53"
DESCRIPTION OF SCHOOL SITE
 Attached is the Legal Description for:

Valley View Middle School
181 Viking Drive, Pleasant Hill, CA 94523

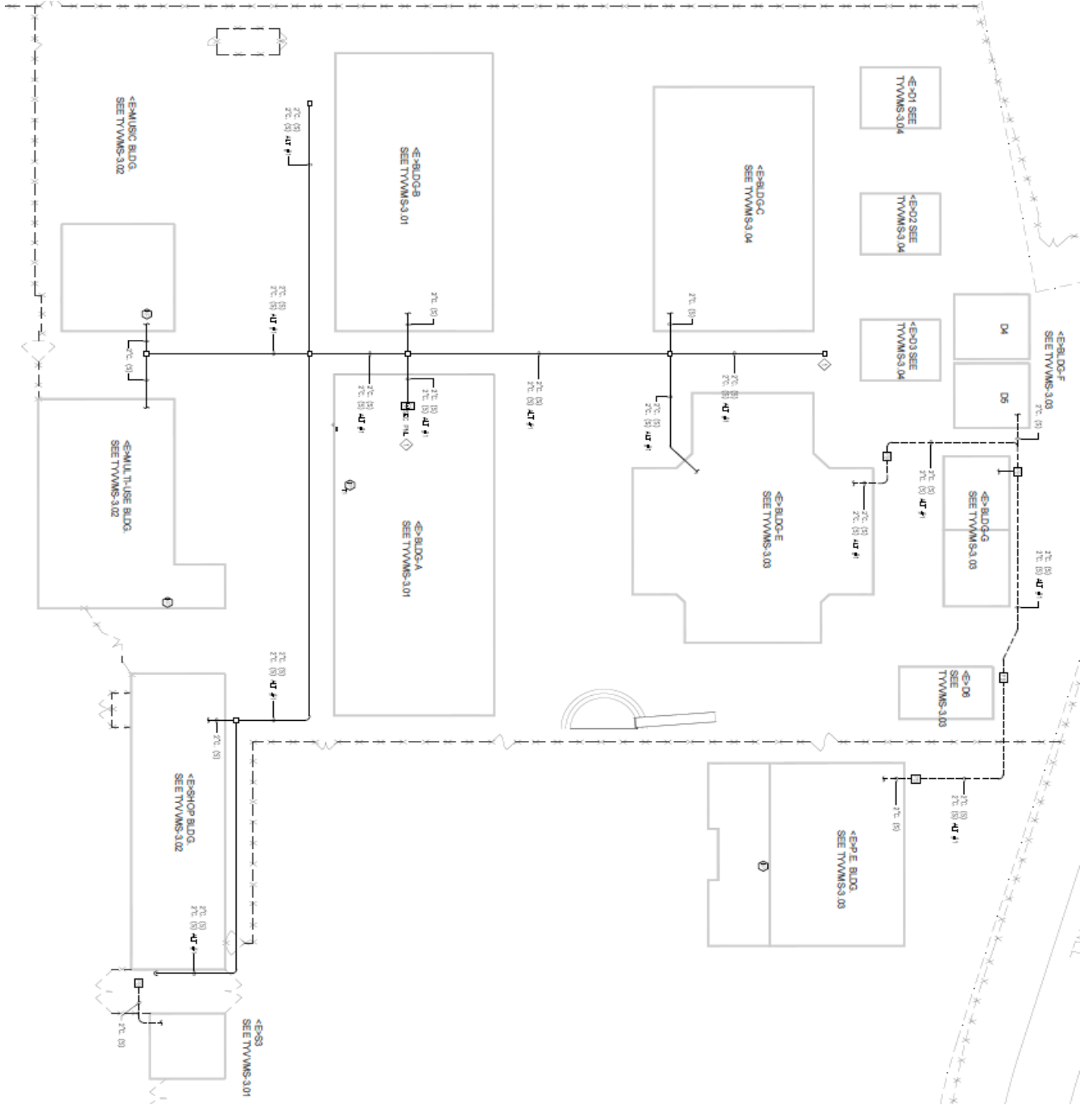


EXHIBIT B

DESCRIPTION OF PROJECT SITE

Attached is:

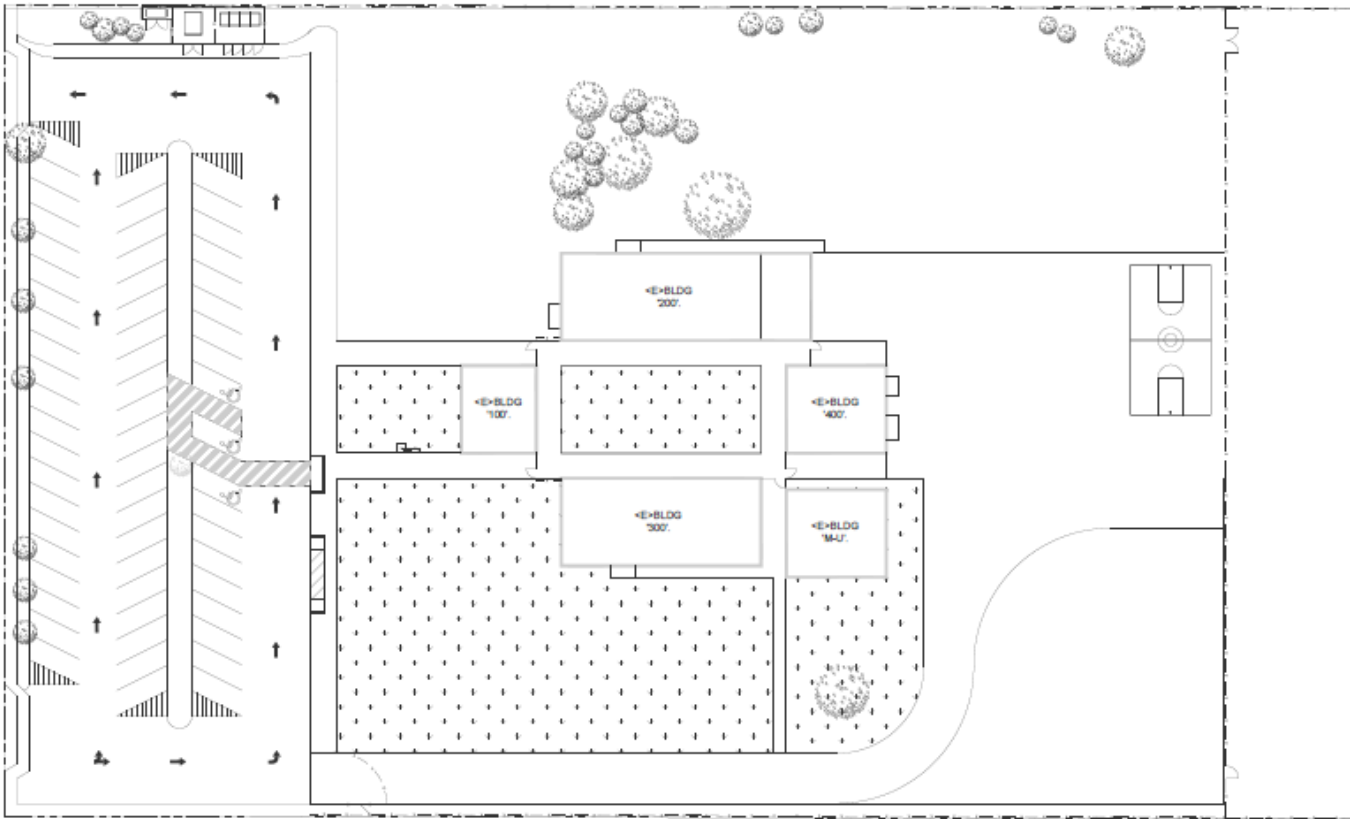
- The Legal Description for a portion of the School Site and
- The Description of the Project that is subject to the Site Lease and the Facilities Lease and upon which Developer will construct the Project.

DESCRIPTION OF SCHOOL SITE

Attached is the Legal Description for:

EXHIBIT "B -2"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Eagle Peak Montessori School
800 Hutchinson Road, Walnut Creek, CA 94598



1 SITE PLAN

EXHIBIT "B -3"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Willow Creek Center
1026 Mohr Lane, Concord, CA 94518



EXHIBIT "B-4"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Cambridge Elementary School
1135 Lacey Lane, Concord CA 94520

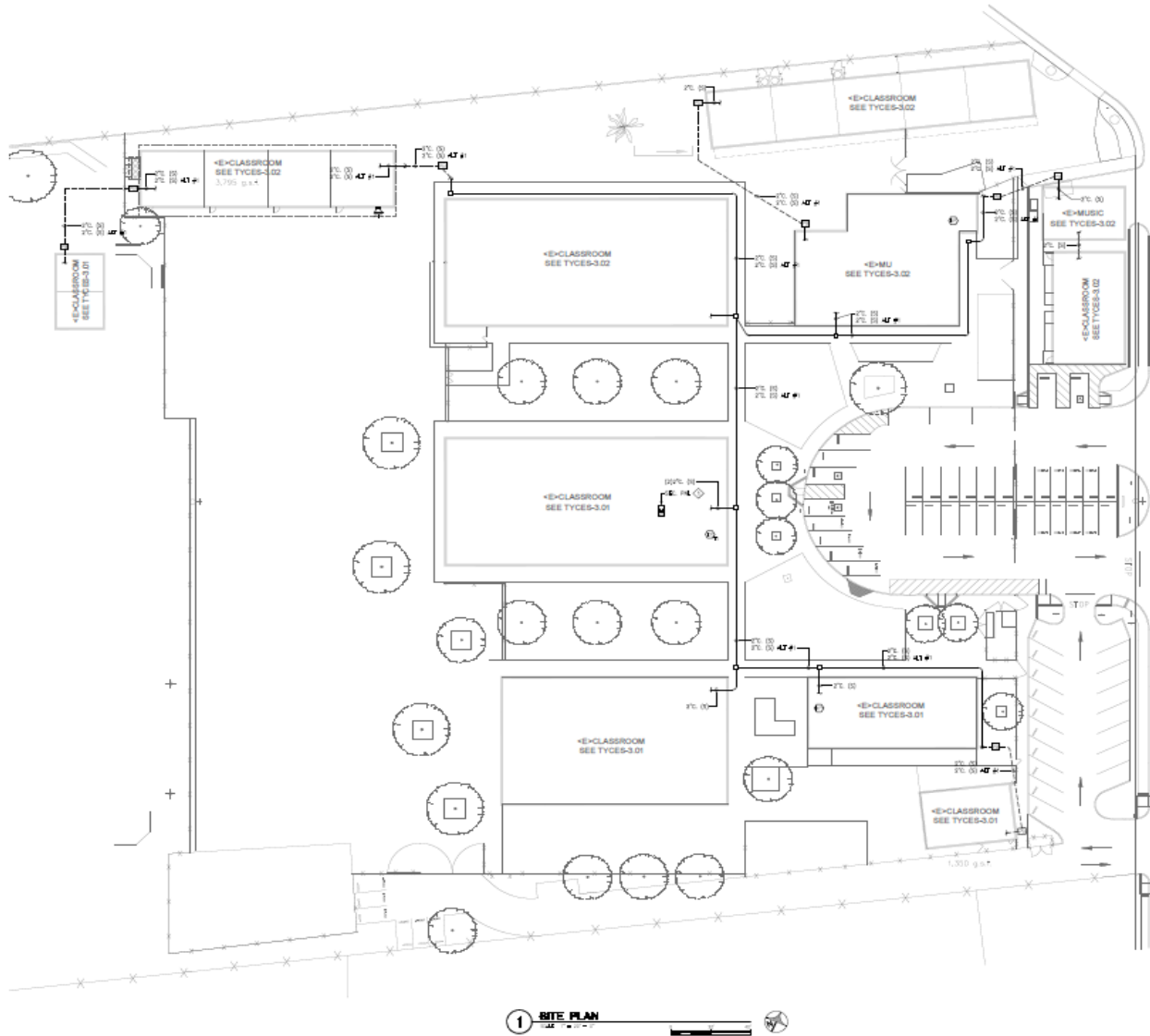


EXHIBIT "B -5"
DESCRIPTION OF SCHOOL SITE
 Attached is the Legal Description for:

College Park High School
201 Viking Drive, Pleasant Hill, CA 94523

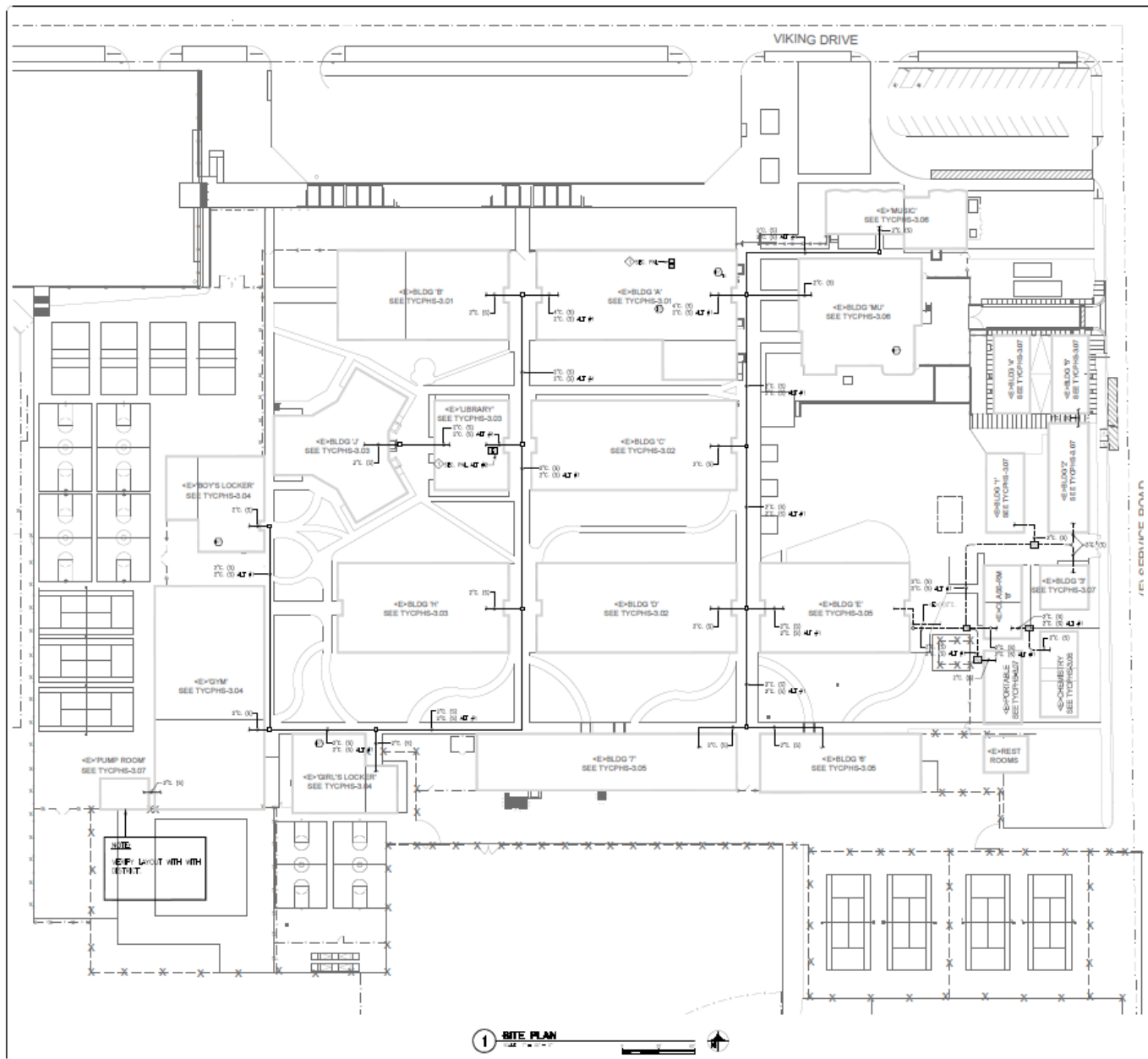


EXHIBIT "B -7"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Fair Oaks Elementary School
2400 Lisa Lane, Pleasant Hill, CA 94523

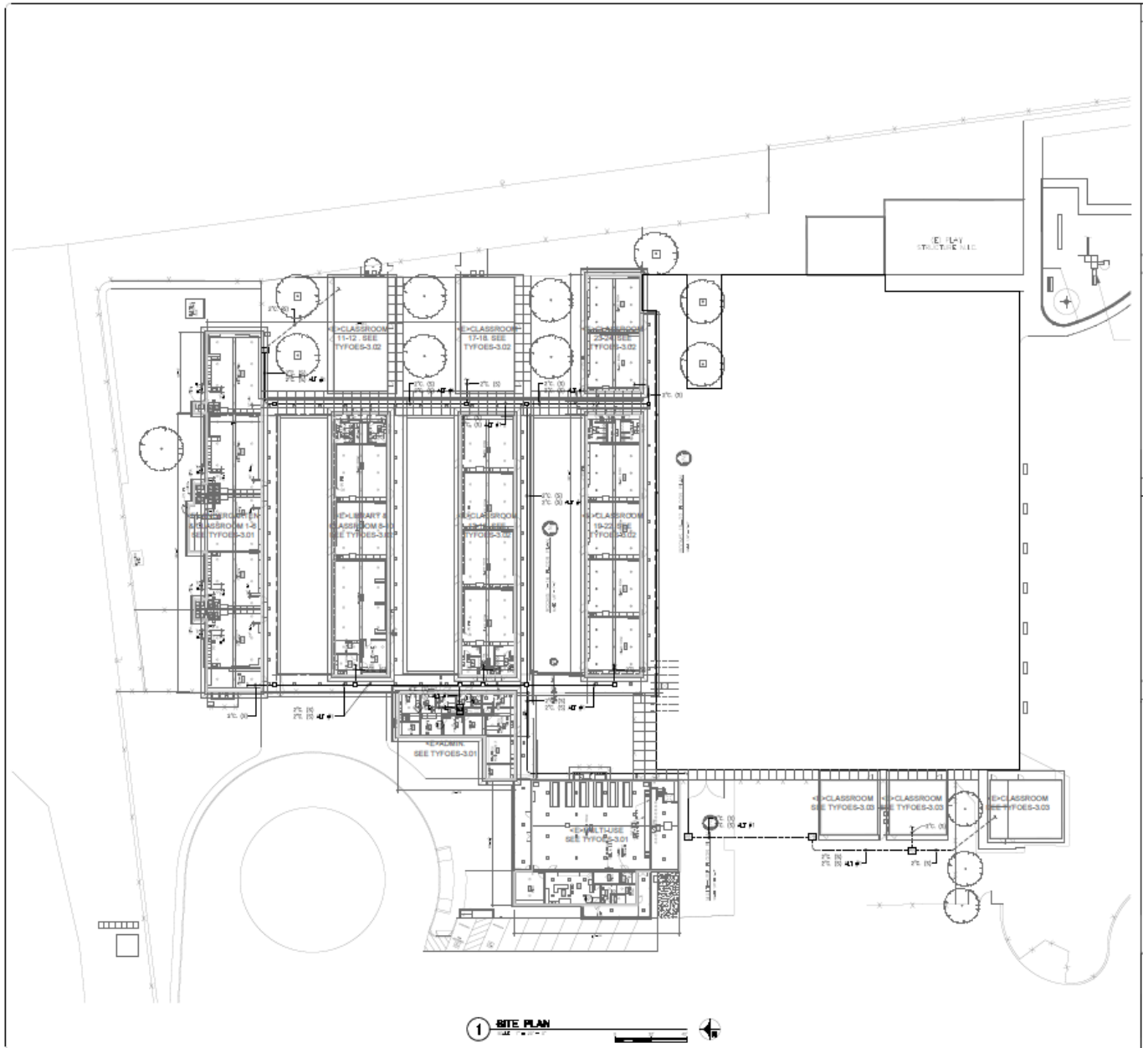


EXHIBIT "B -8"

DESCRIPTION OF SCHOOL SITE

Attached is the Legal Description for:

**Holbrook Elementary School
3333 Ronald Way, Concord CA, 94519**

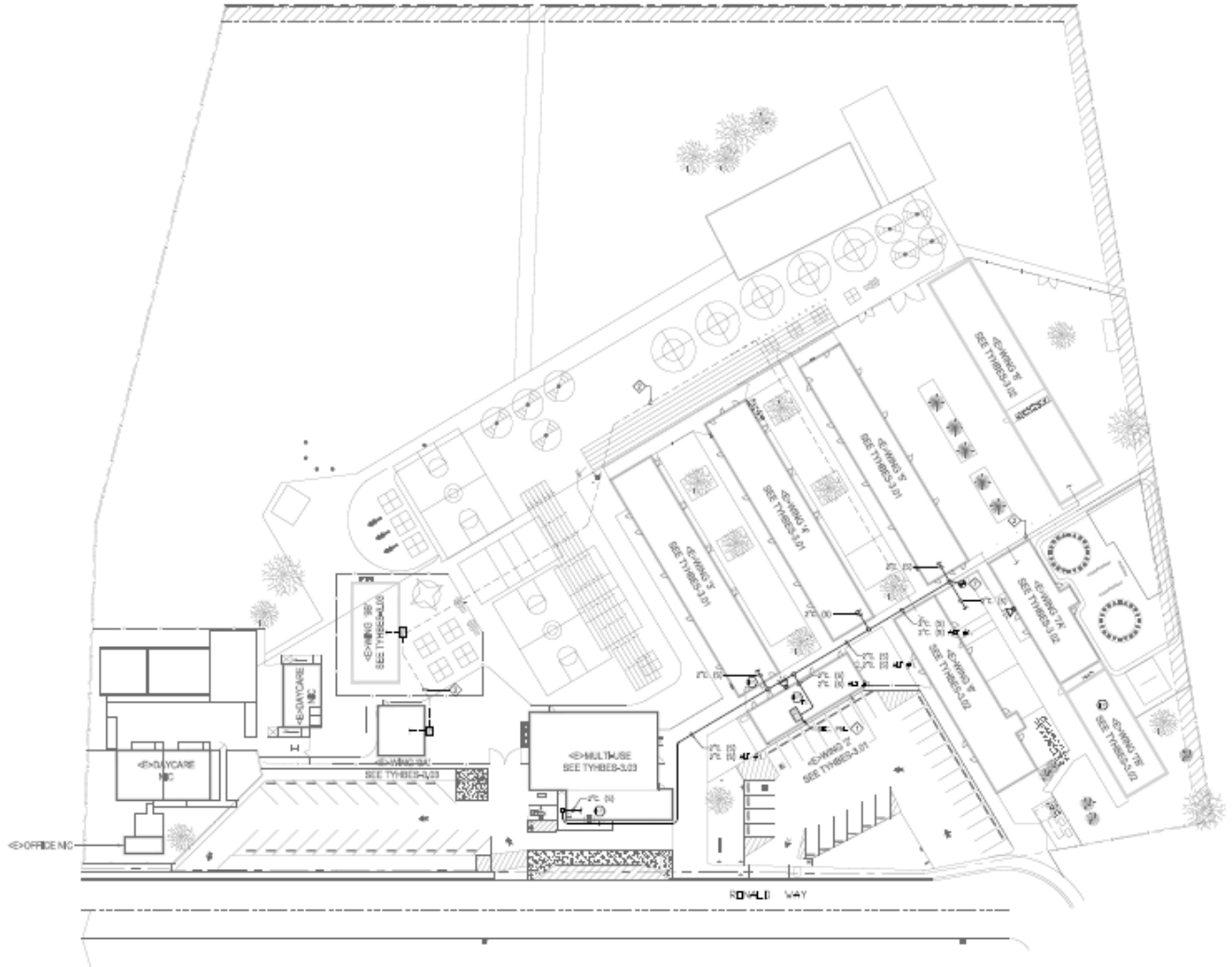


EXHIBIT "B -9a"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Mount Diablo High School (Main Campus)
2450 Grant Street, Concord, CA 94520

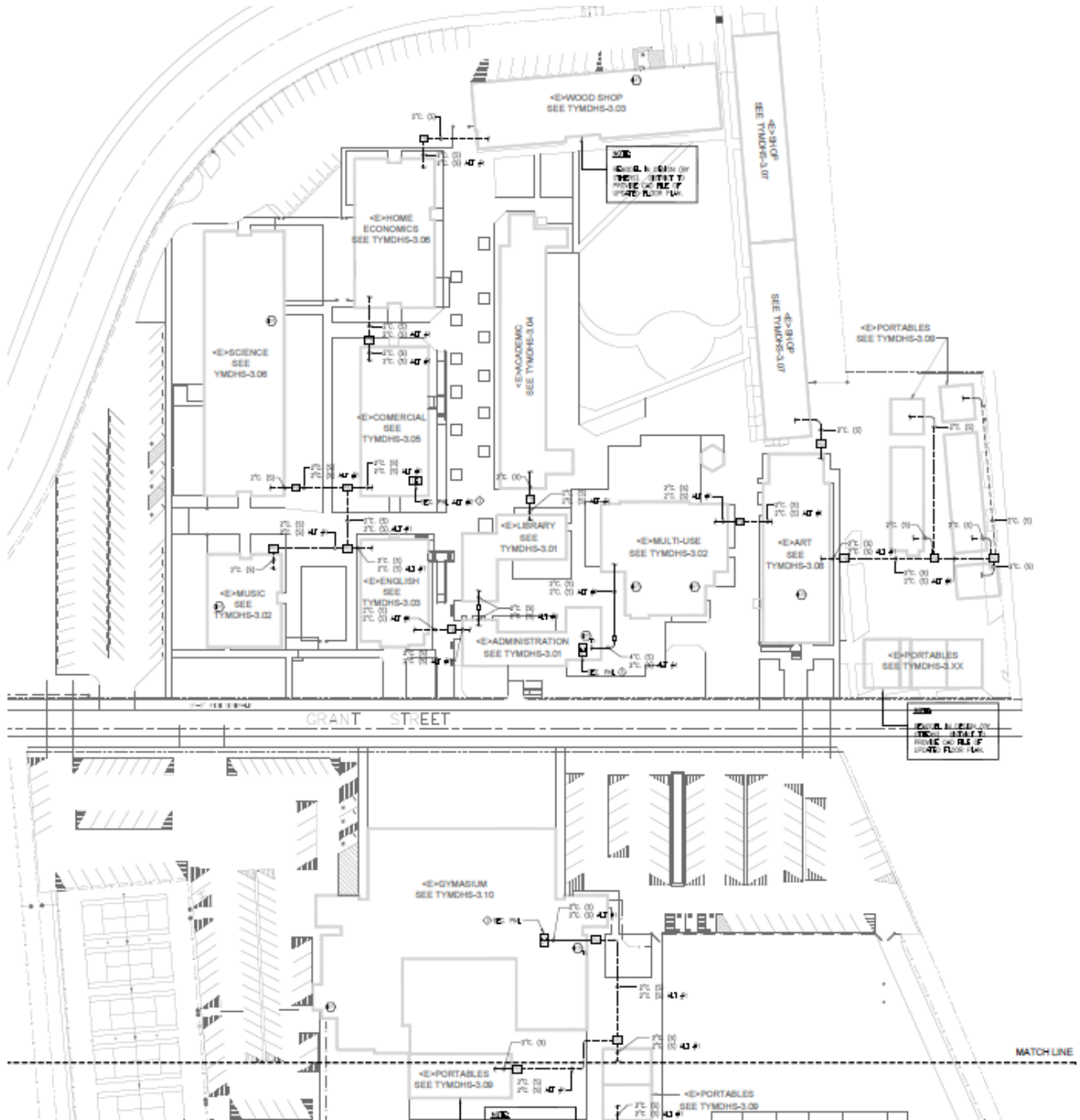


EXHIBIT "B -9b"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Mount Diablo High School (South West)
2450 Grant Street, Concord, CA 94520

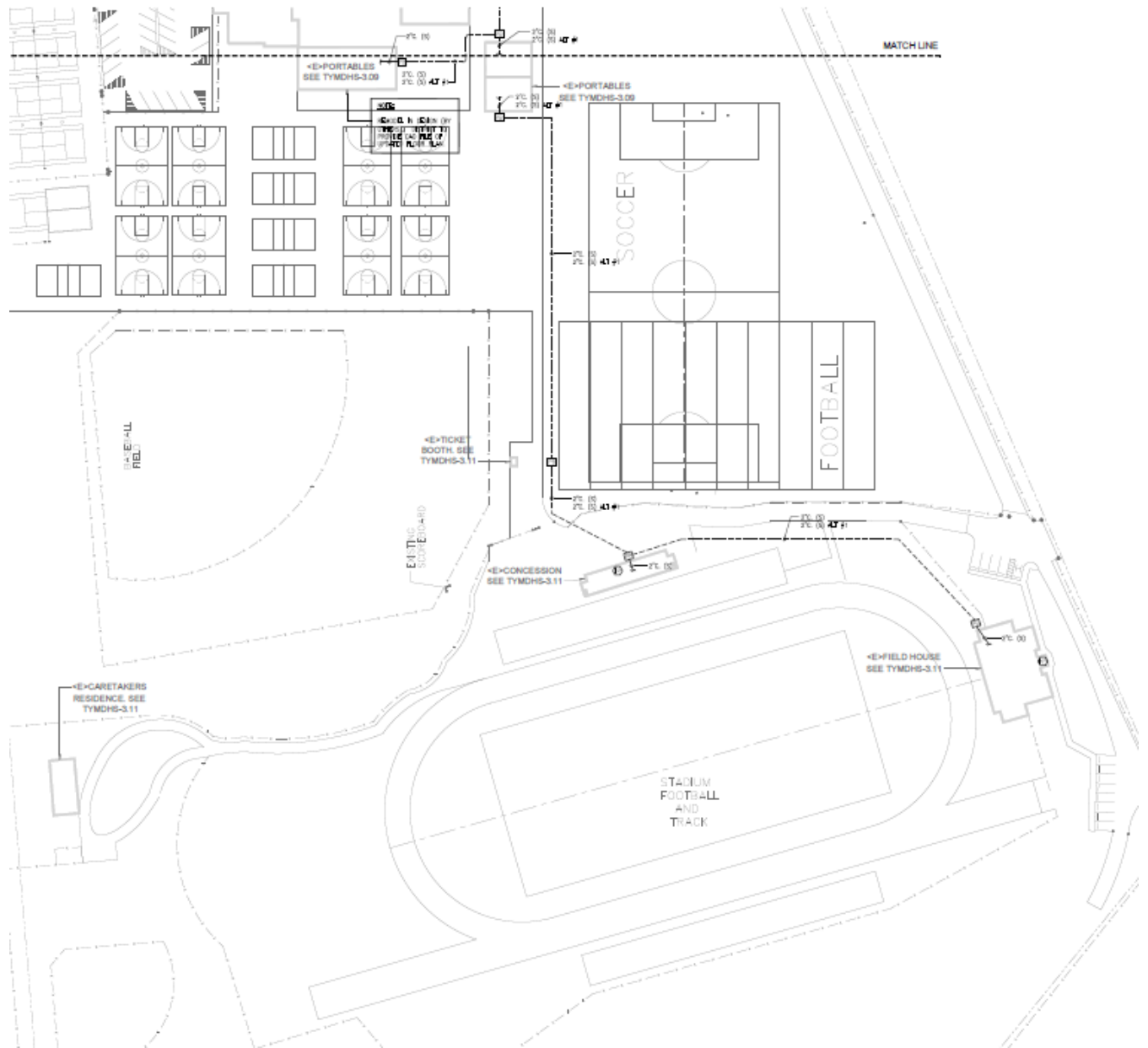


EXHIBIT "B -10"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Maintenance & Operations, Purchasing, Food Services, Transportation
1480 Gasoline Alley, Concord CA, 94520
1490 Gasoline Alley, Concord CA, 94520
2326 Bisso Lane, Concord, CA 94520

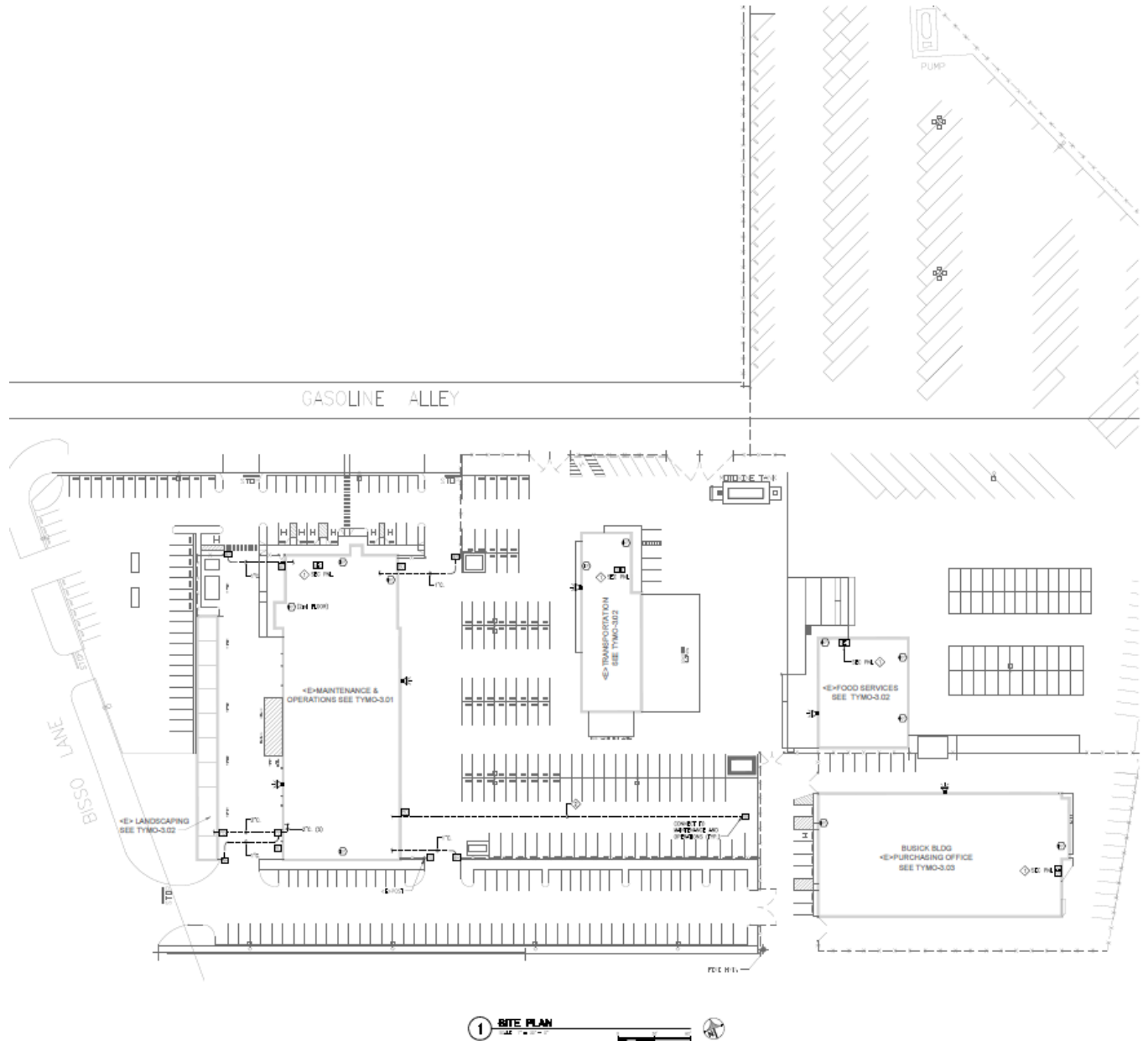
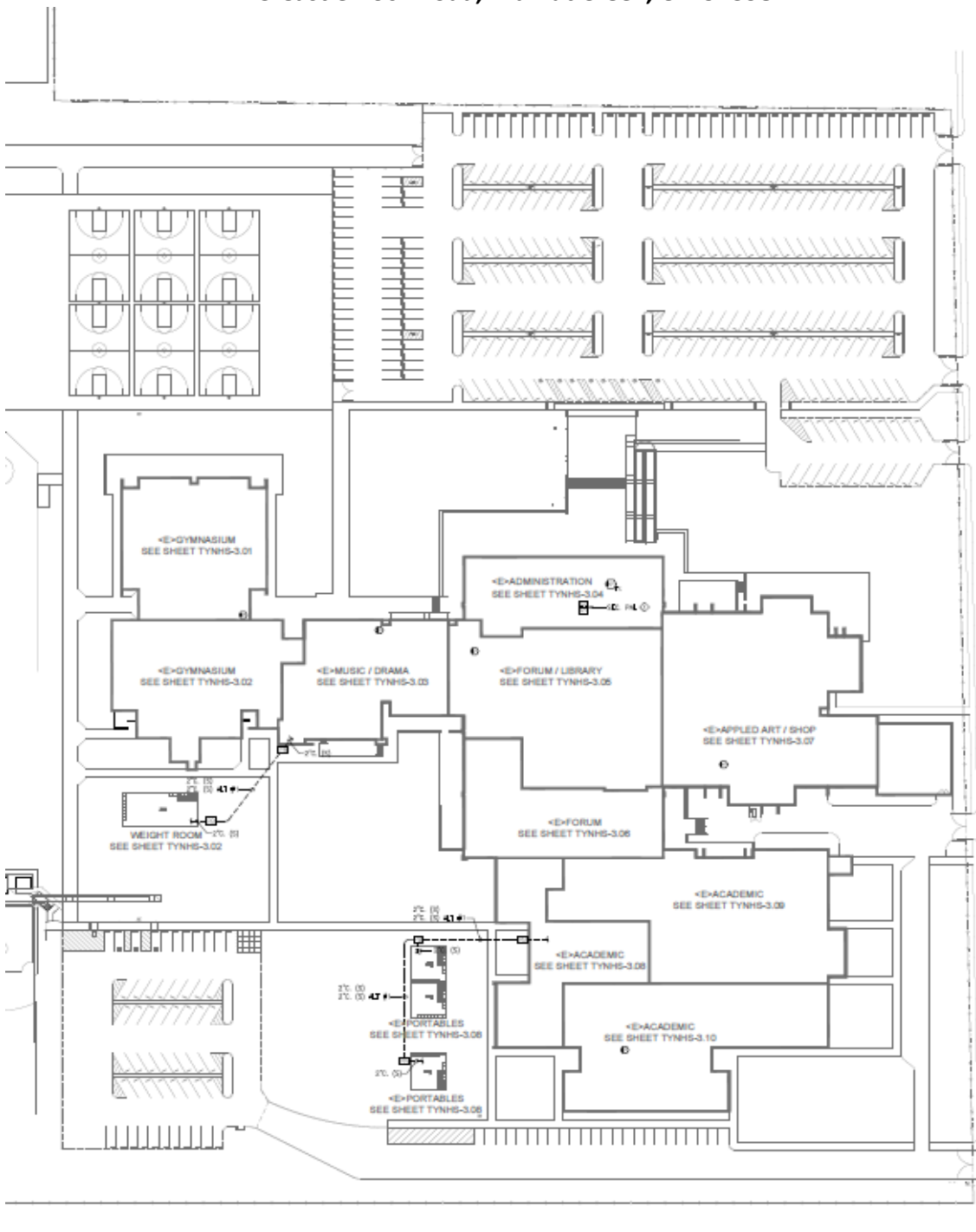


EXHIBIT "B -11"
DESCRIPTION OF SCHOOL SITE
 Attached is the Legal Description for:

Northgate High School
 425 Castle Rock Road, Walnut Creek, CA 94598



1 SITE PLAN

EXHIBIT "B -12"
DESCRIPTION OF SCHOOL SITE
 Attached is the Legal Description for:

Ygnacio Valley High School
755 Oak Grove, Concord CA 94518

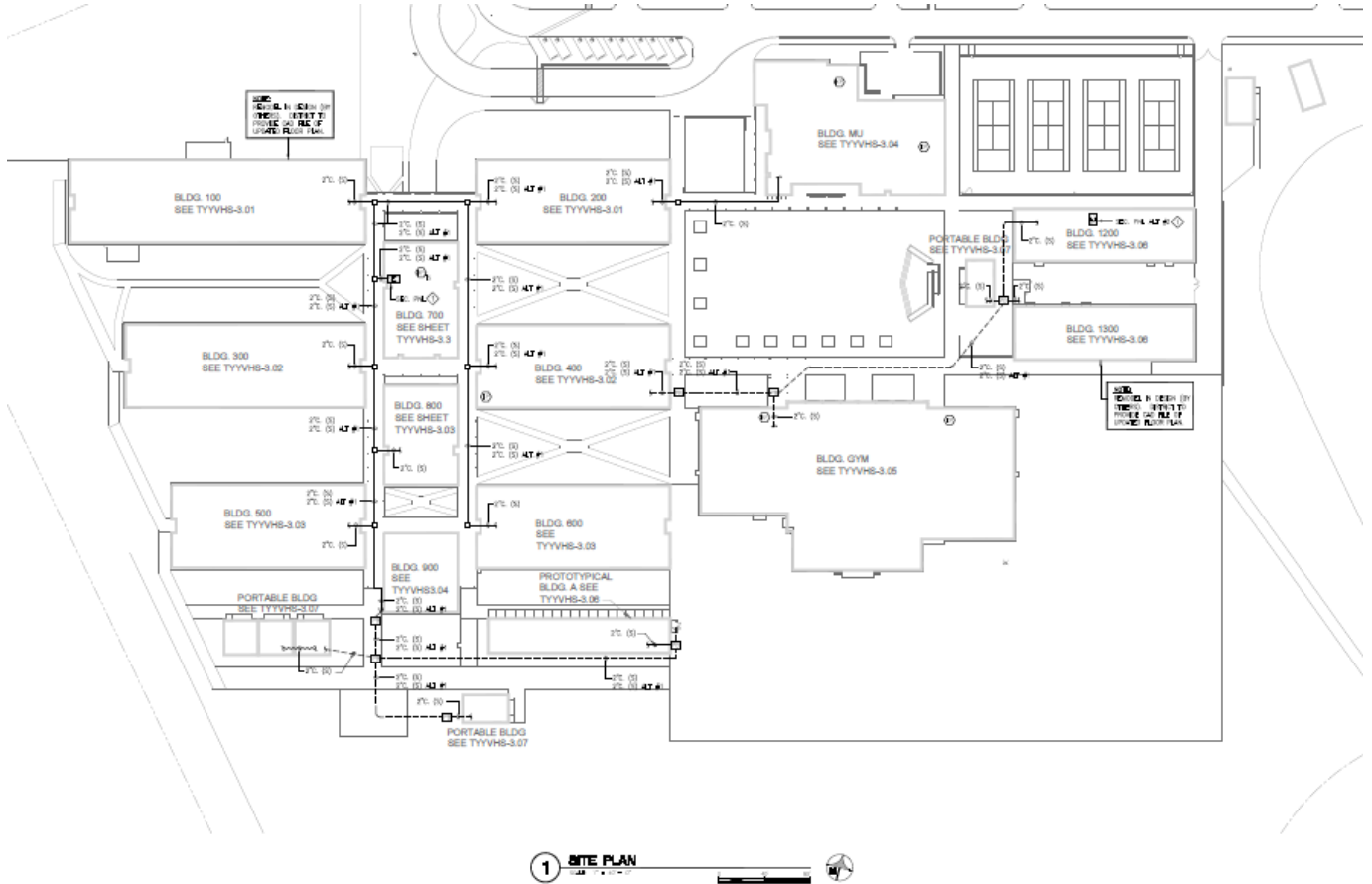


EXHIBIT "B -13"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Ygnacio Valley Elementary School
2217 Chalomar Road, Concord, CA 94518

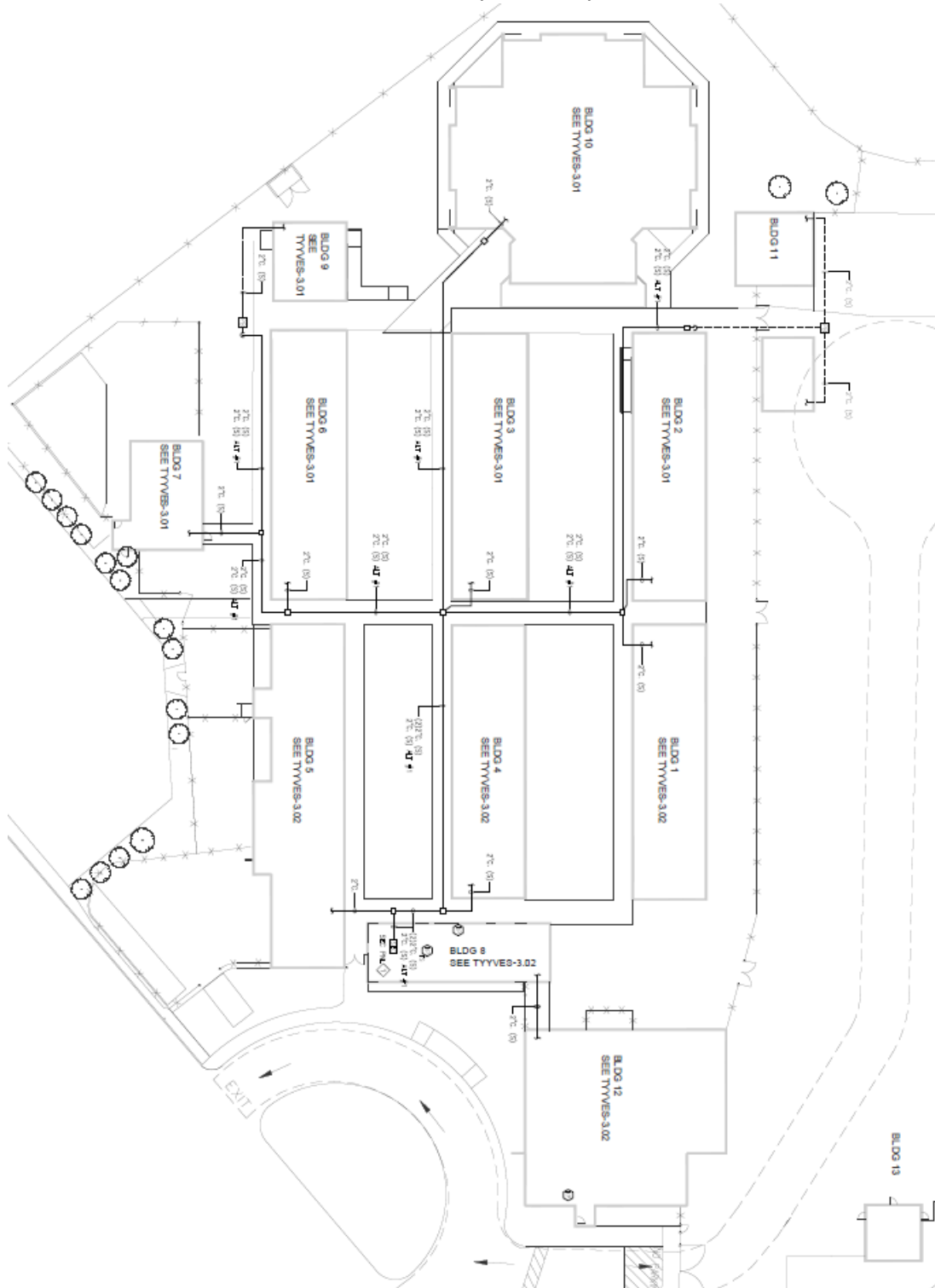


EXHIBIT "B 14"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

El Monte Elementary School
1400 Dina Drive, Concord, CA 94518

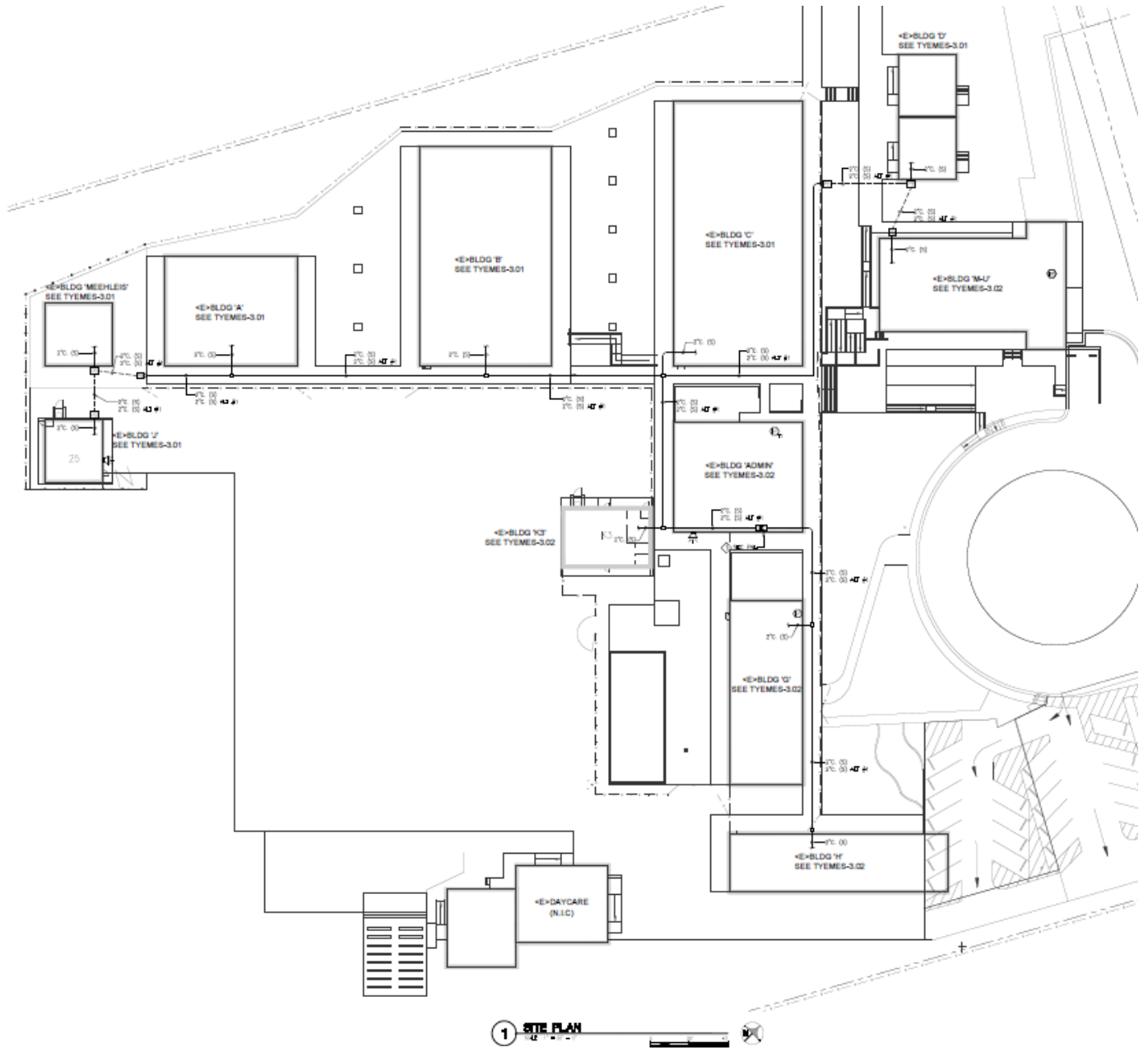


EXHIBIT "B -15"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Glenbrook Middle School
2351 Olivera Road, Concord CA, 94520

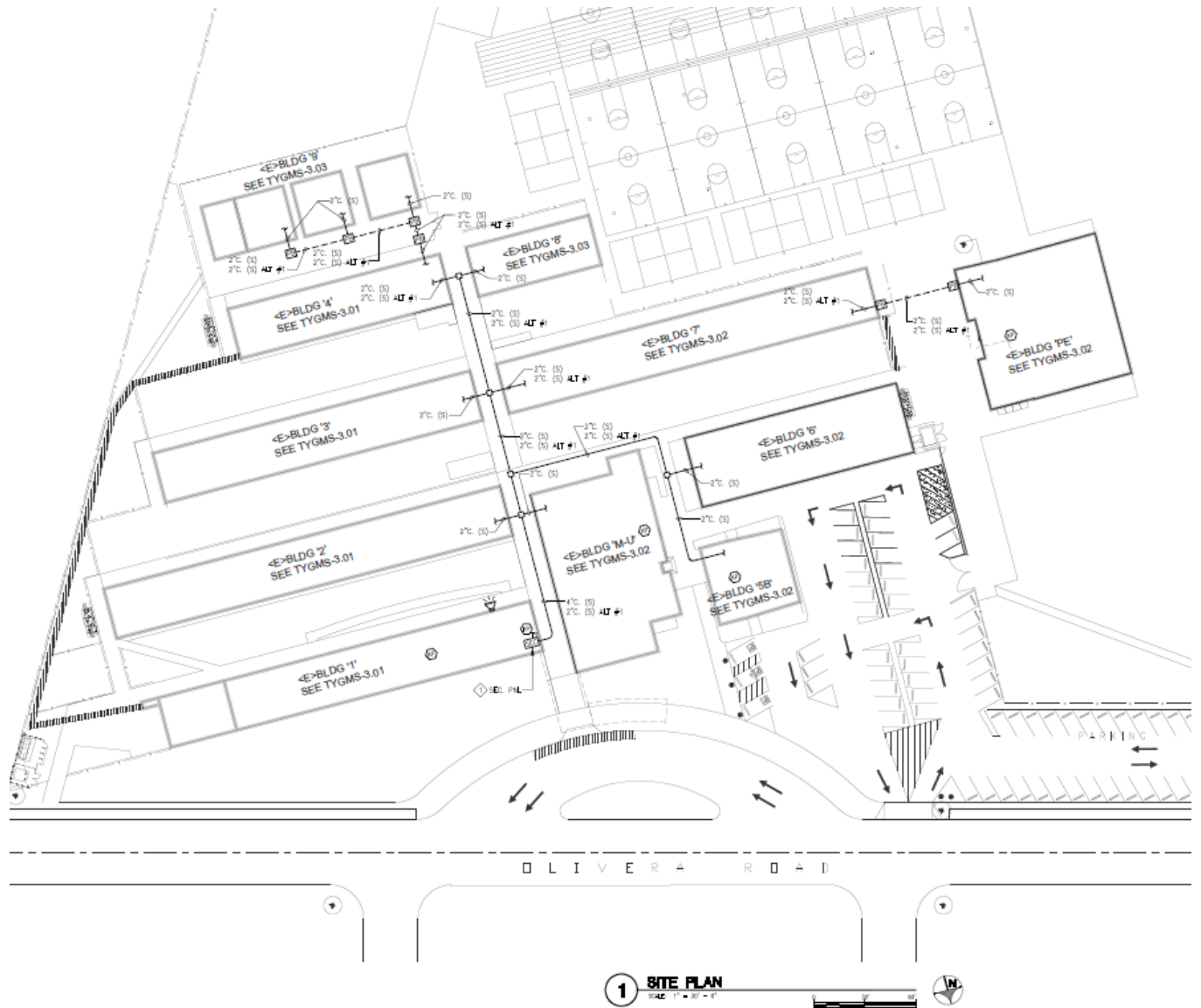


EXHIBIT "B -16"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Highland Elementary School
1326 Pennsylvania Blvd. Concord, CA 94521

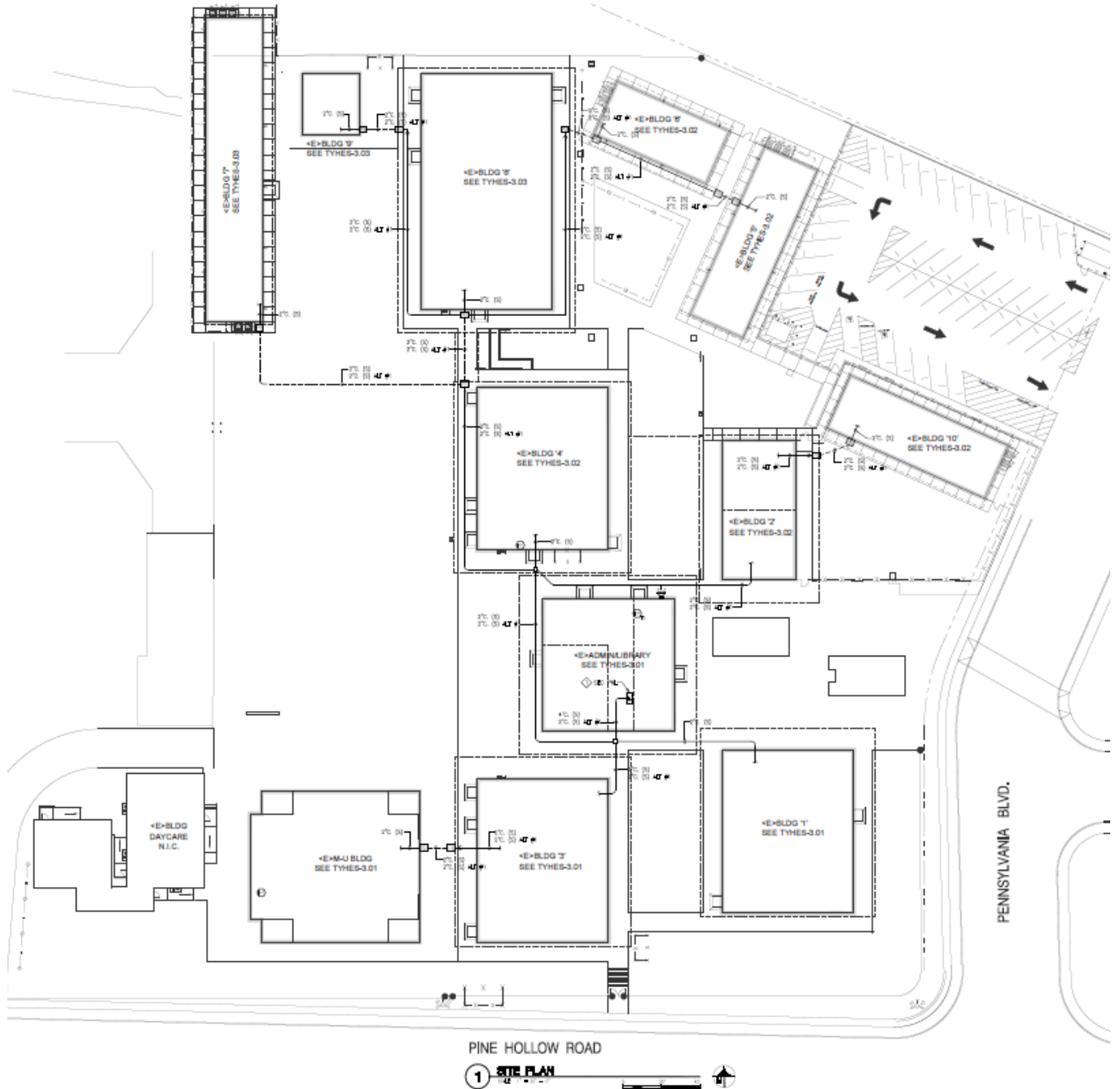


EXHIBIT "B -18"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Mountain View Elementary School
1705 Thornwood Drive, Concord, CA 94521

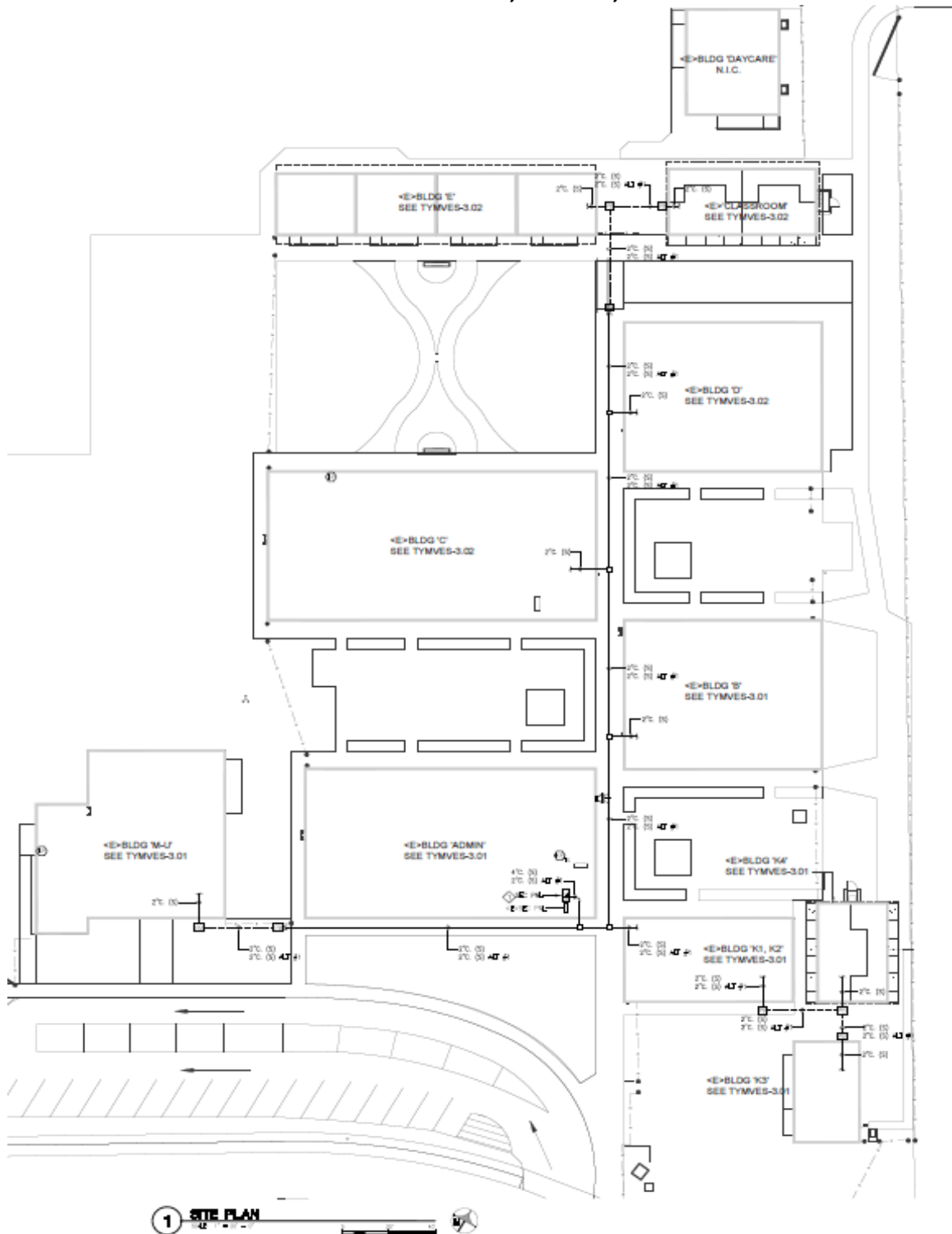


EXHIBIT "B -19"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Pine Hollow Middle School
5522 Pine Hollow Road, Concord, CA 94521

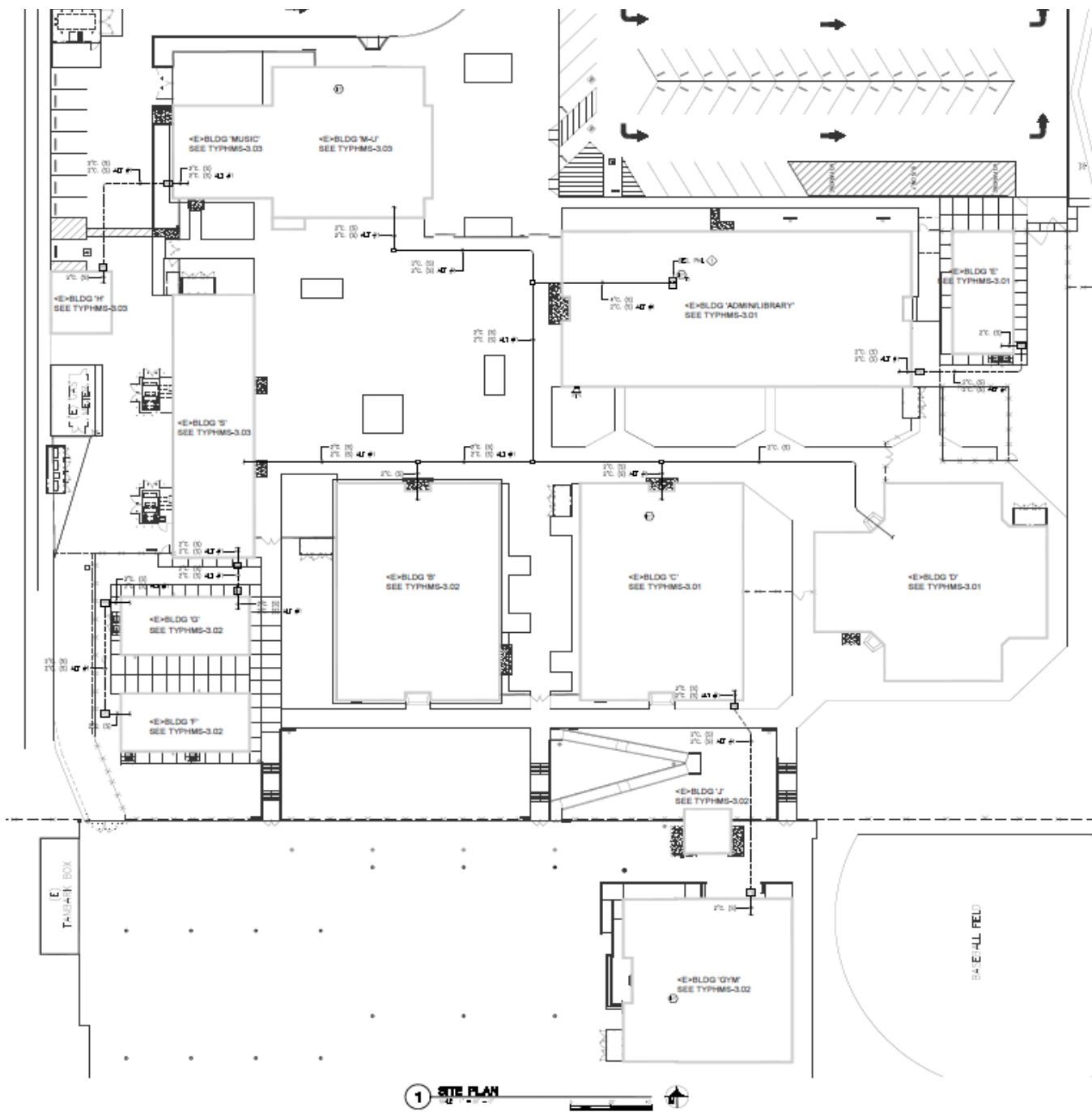


EXHIBIT "B -20"
DESCRIPTION OF SCHOOL SITE
 Attached is the Legal Description for:

Rio Vista Elementary School
611 Pacifica Ave, Bay Point, CA 94565

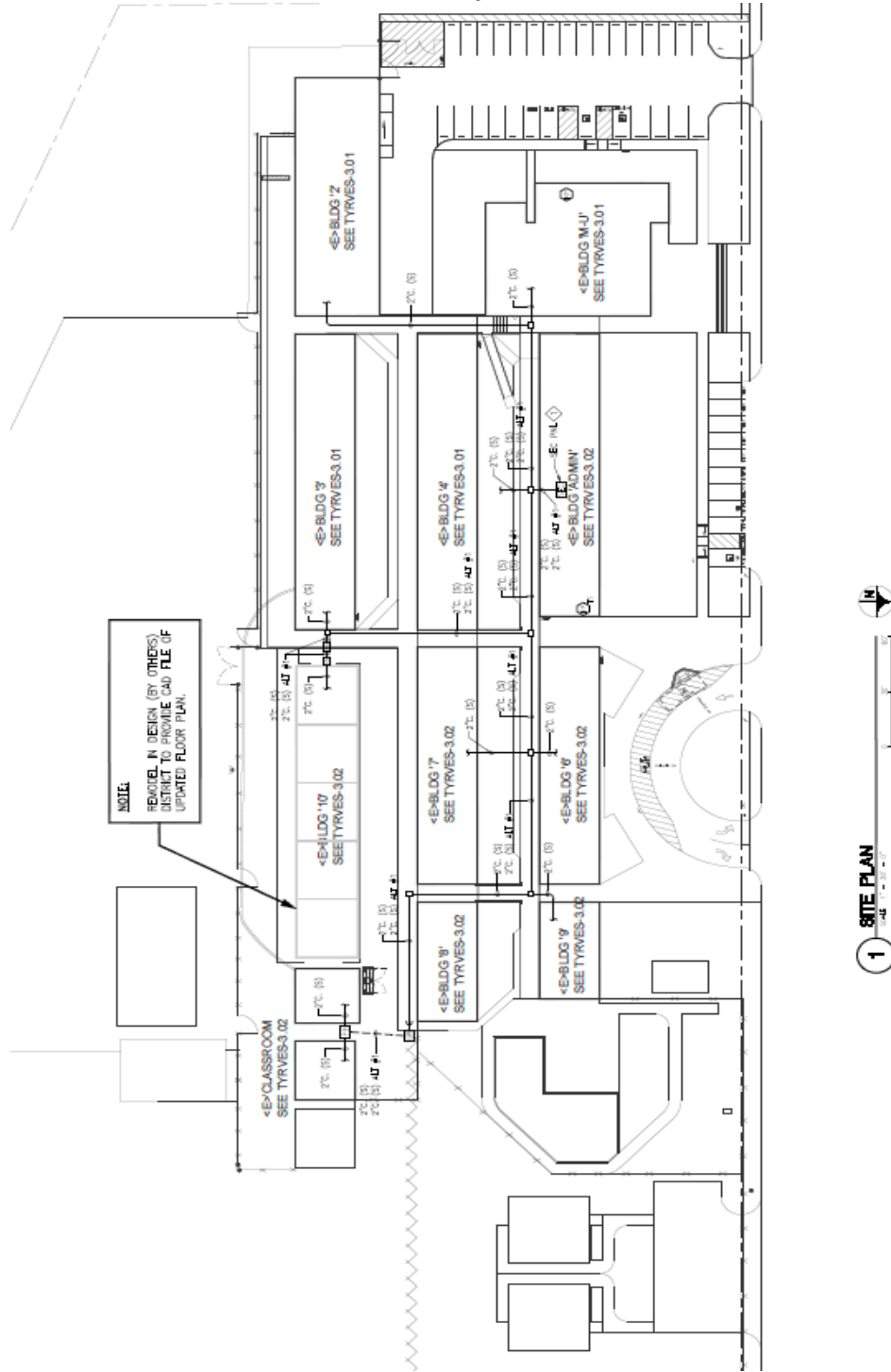


EXHIBIT "B -21"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Shore Acres Elementary School
351 Marina Road, Bay Point, CA 94565

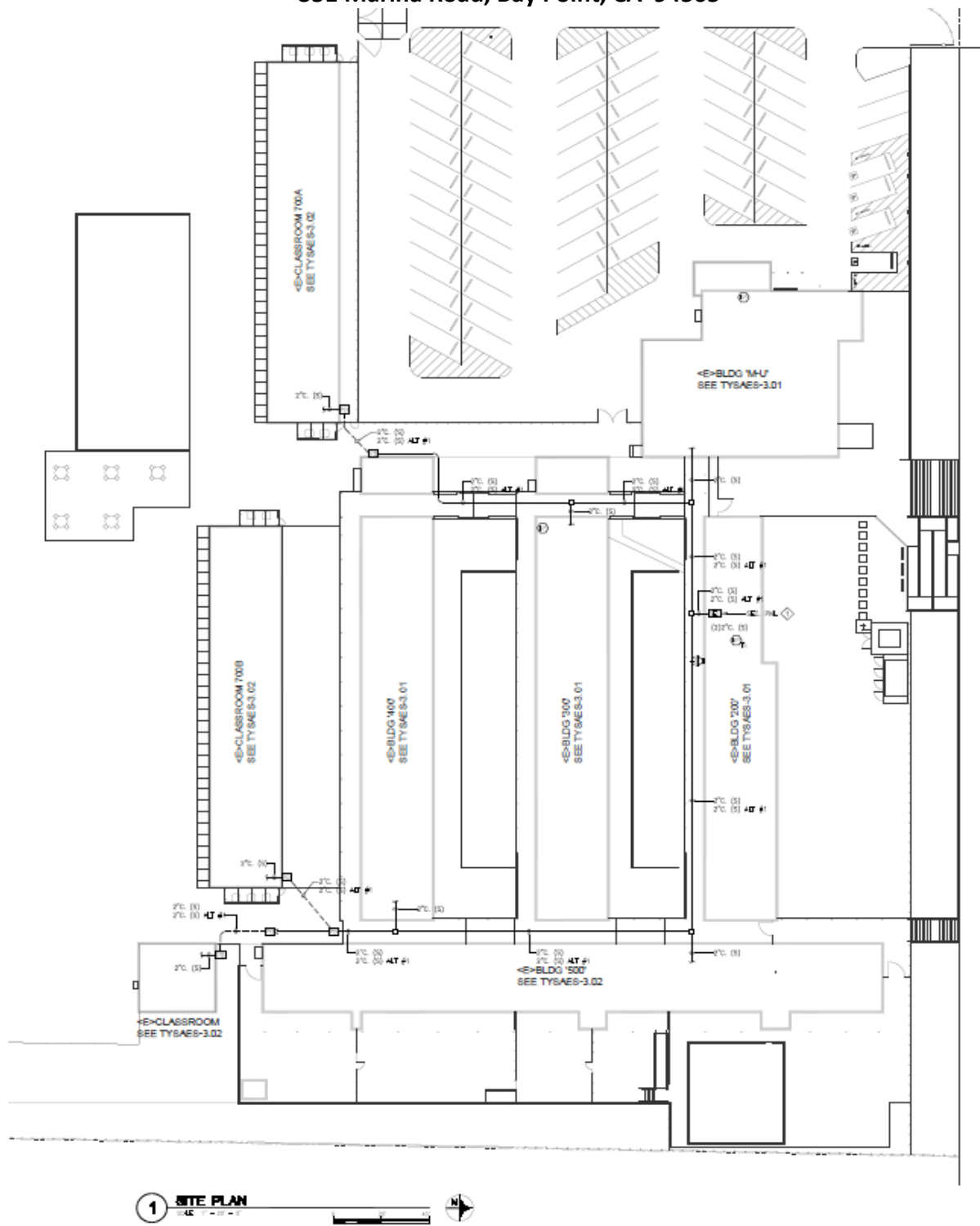


EXHIBIT "B -23"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Sun Terrace Elementary School
2448 Floyd Lane, Concord, CA 94520

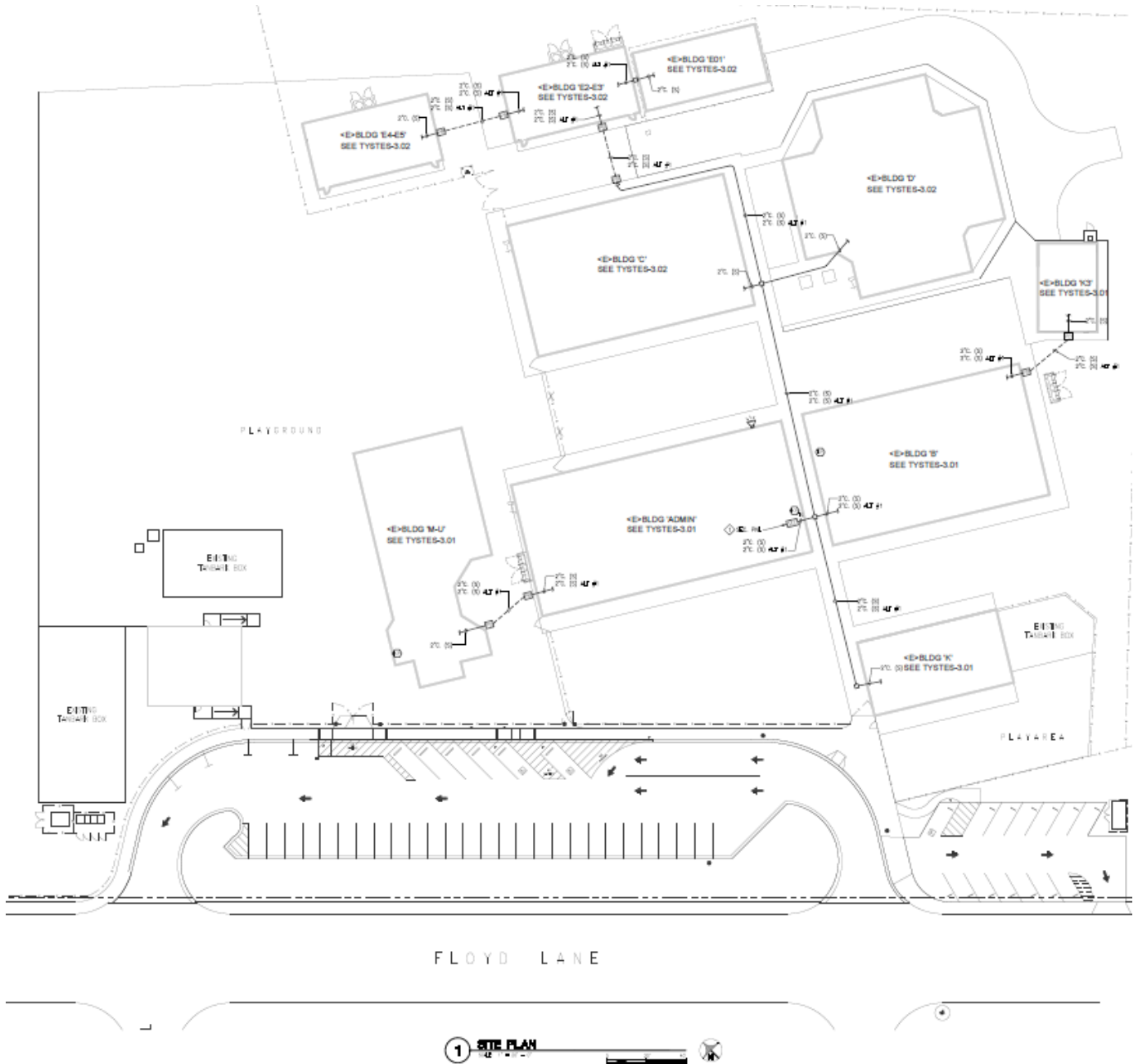


EXHIBIT "B -24"
DESCRIPTION OF SCHOOL SITE
 Attached is the Legal Description for:
Wren Ave Elementary School
3339 Wren Avenue, Concord, CA 94519

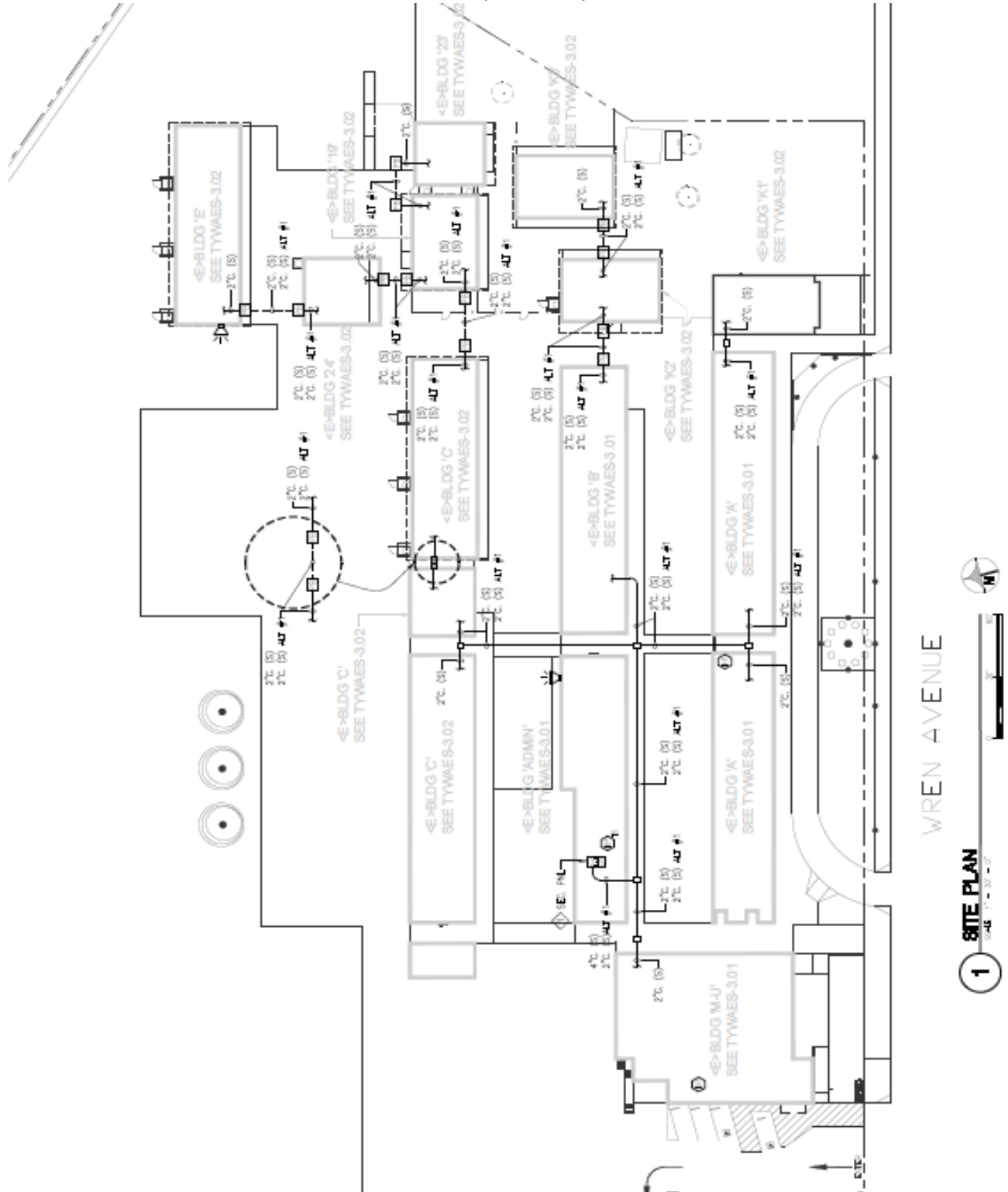


EXHIBIT "B -25"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Bancroft Elementary School
2200 Parish Drive, Walnut Creek, CA 94596

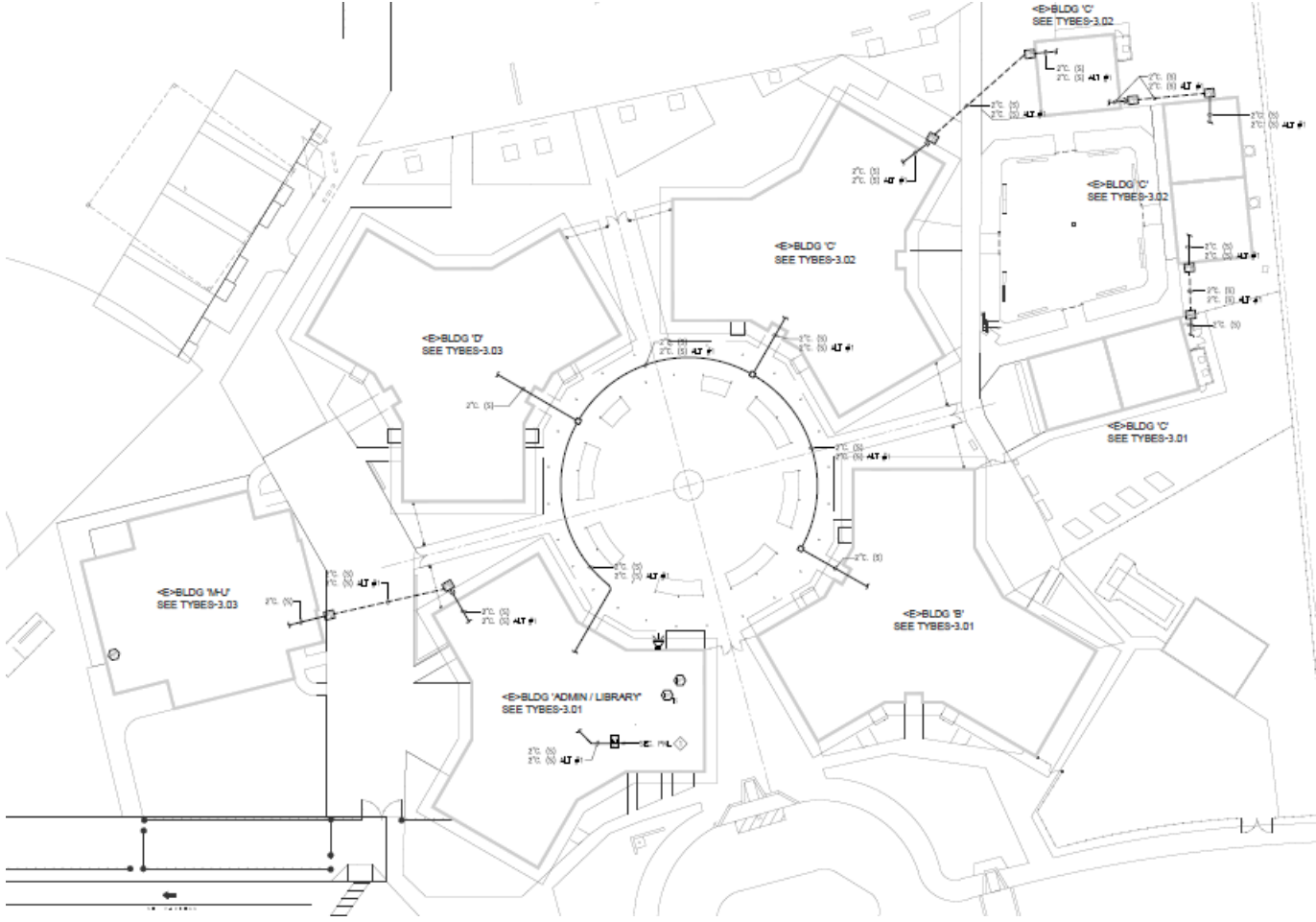


EXHIBIT "B -27"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Pleasant Hill Elementary School
2097 Oak Park Blvd. Pleasant Hill, CA 94523

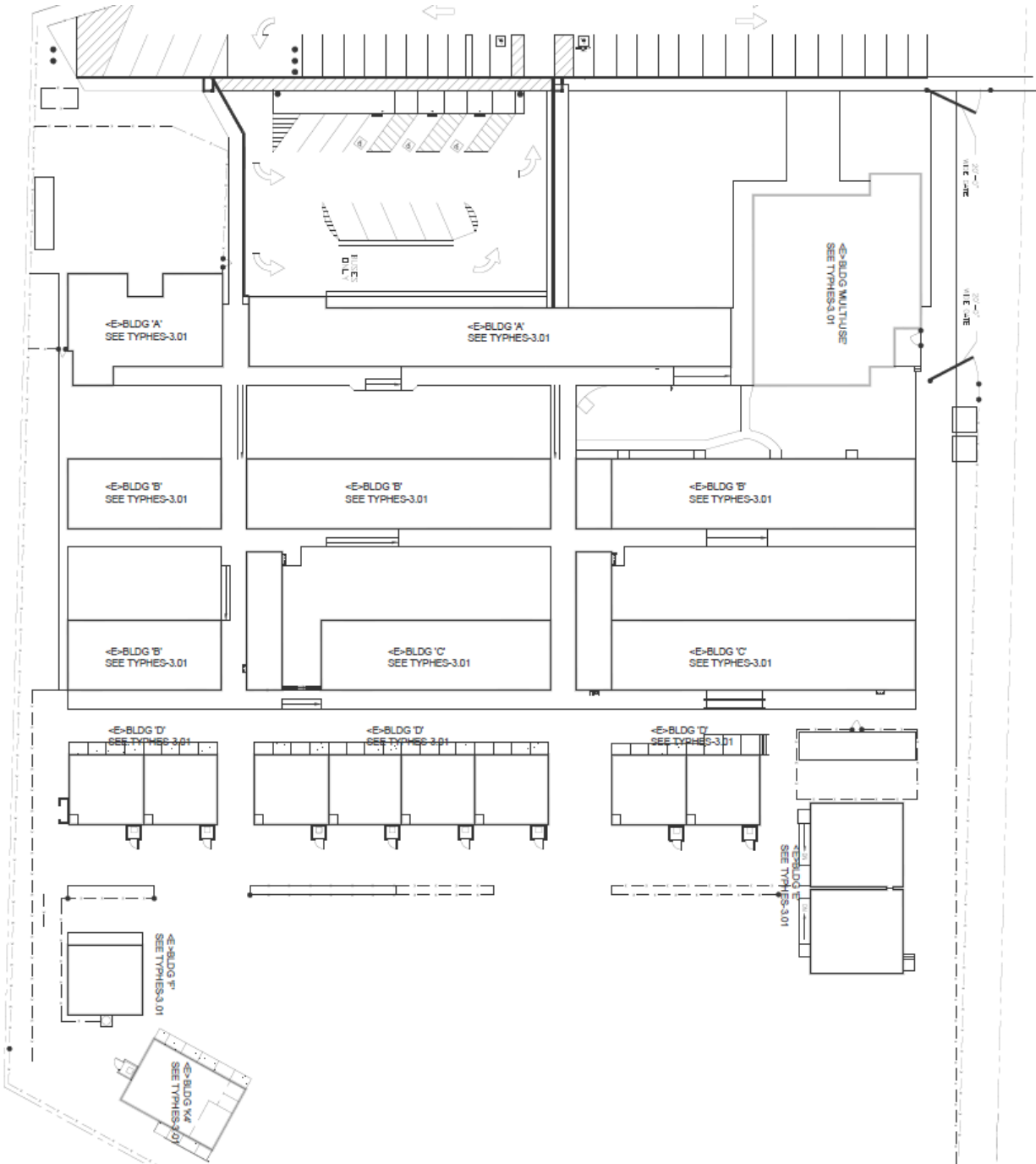


EXHIBIT "B -28"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Olympic High School
2730 Salvio Street, Concord CA 94519

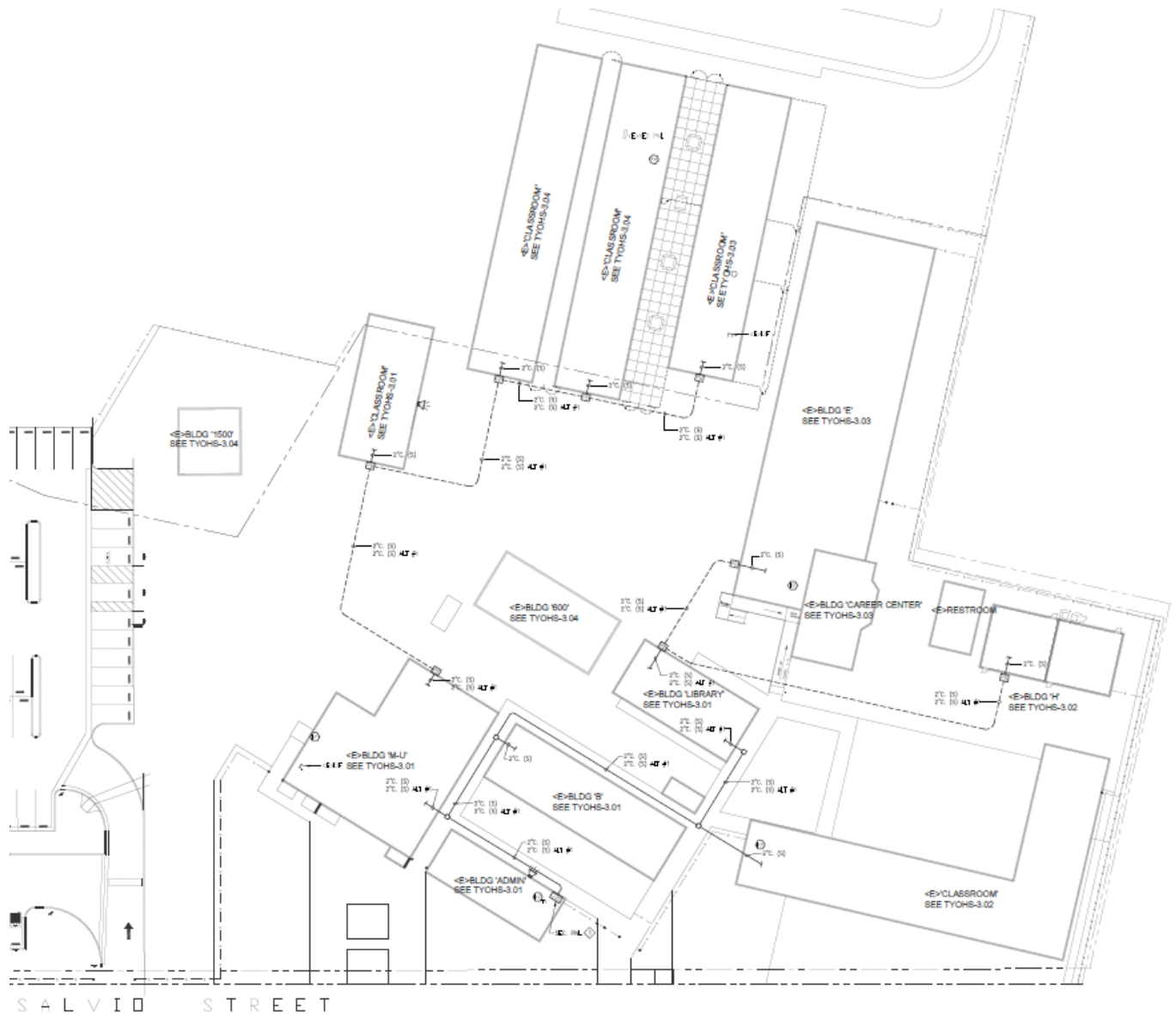
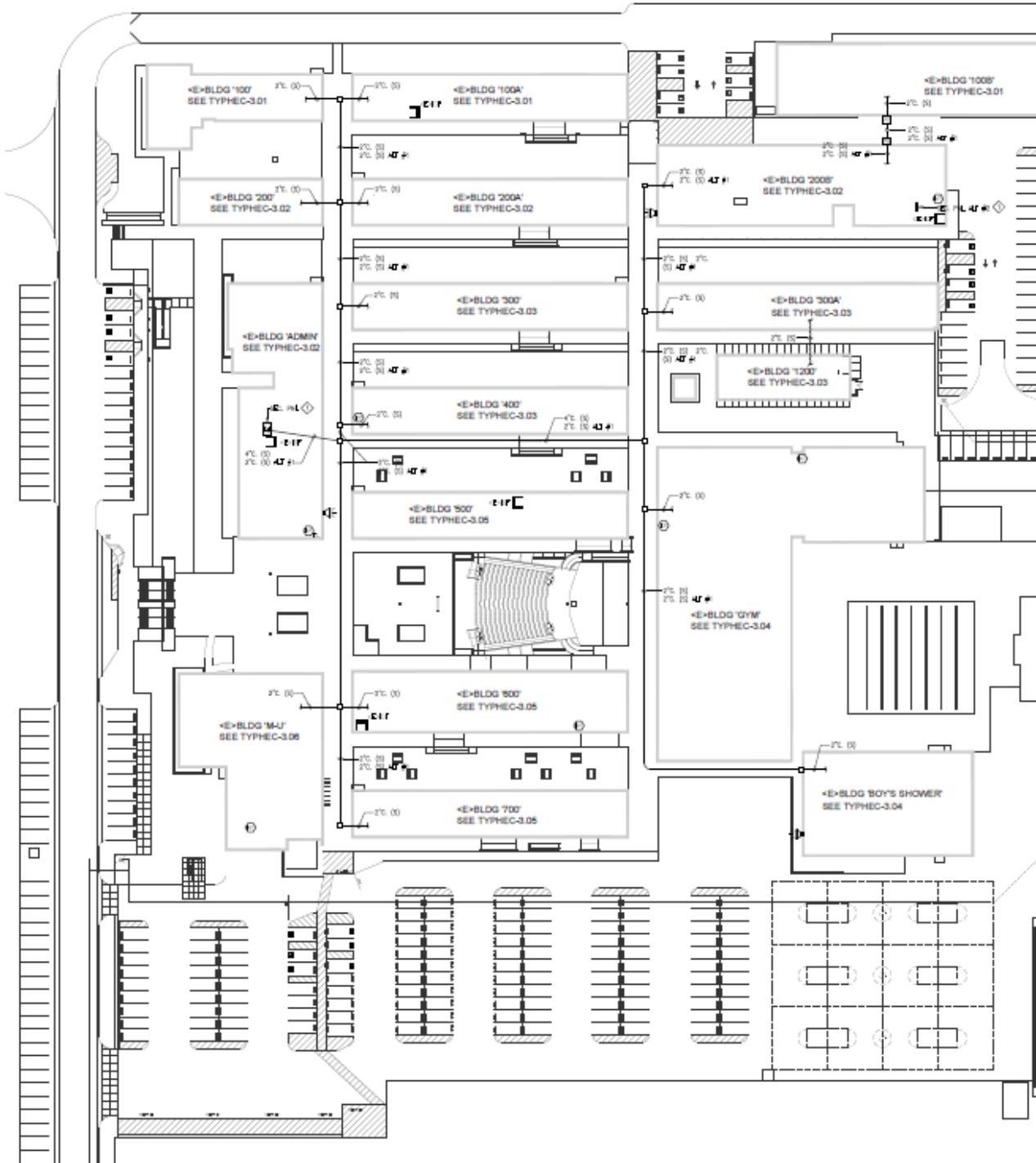


EXHIBIT "B -29"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Pleasant Hill Middle School / Education Centers
One Santa Barbara Road, Pleasant Hill CA 94523



1 SITE PLAN

EXHIBIT "B -30"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Sequoia Elementary School
277 Boyd Drive, Pleasant Hill CA 94523

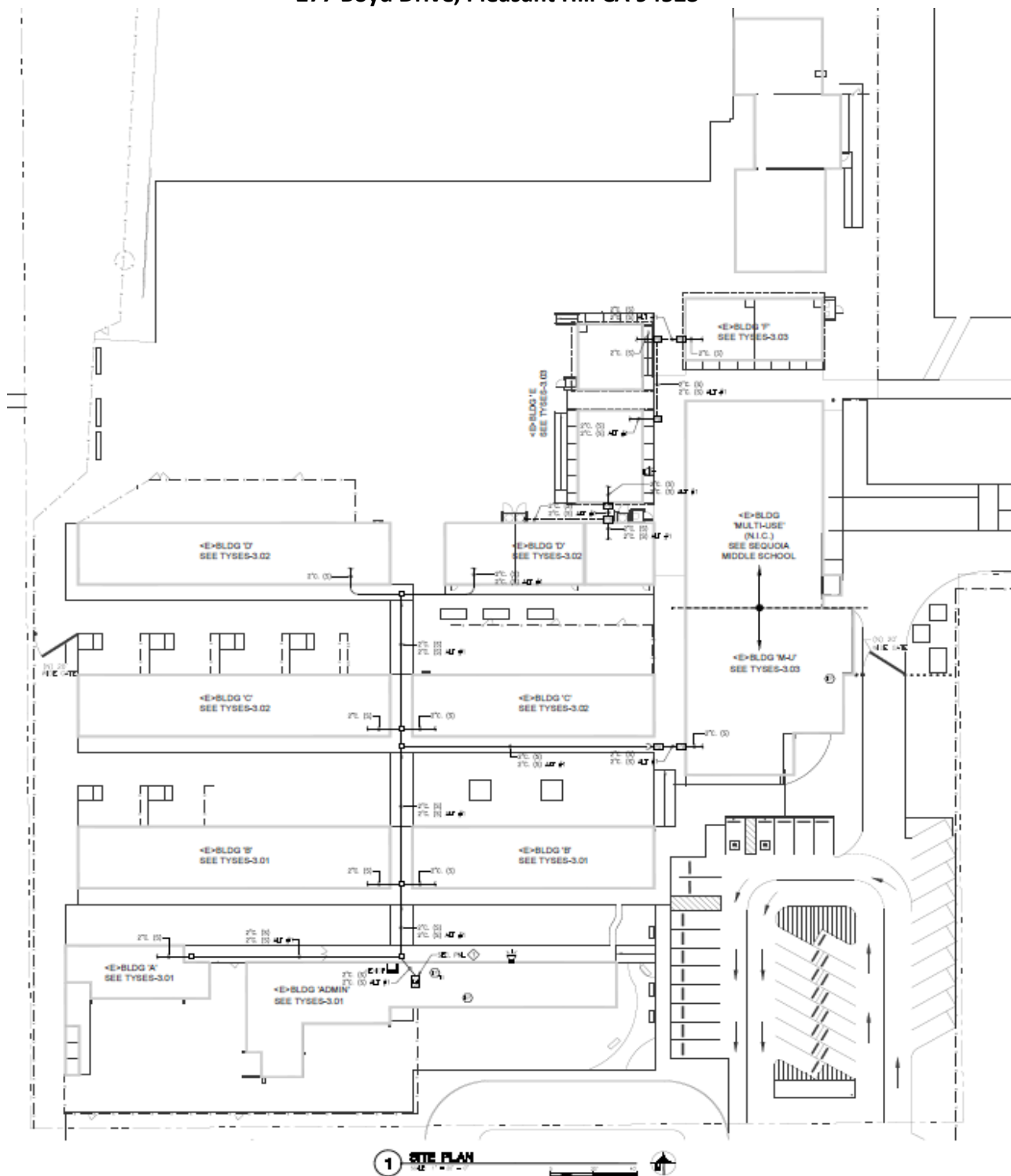


EXHIBIT "B -31"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Strandwood Elementary School
416 Gladys Drive, Pleasant Hill, CA 94523

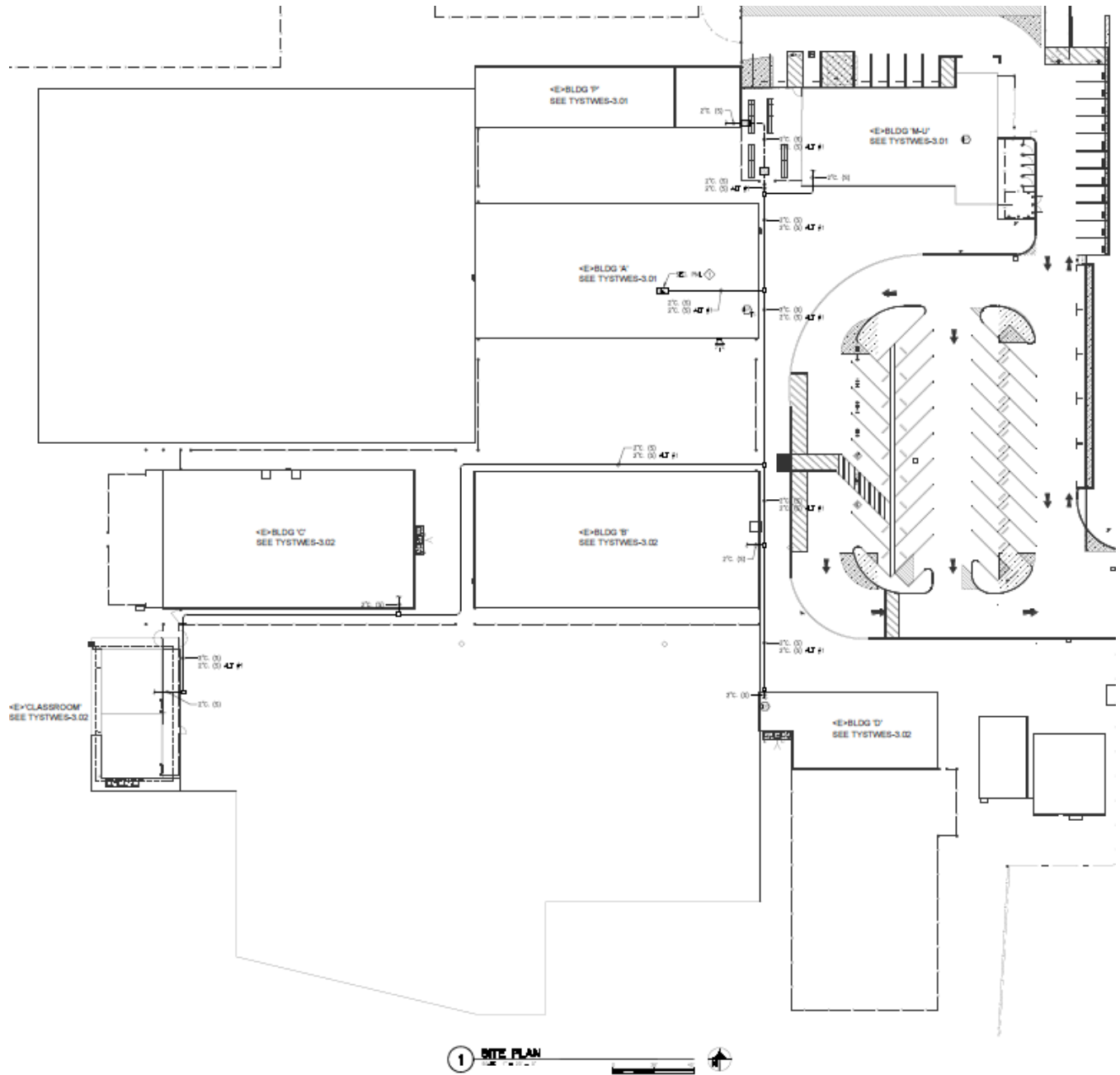
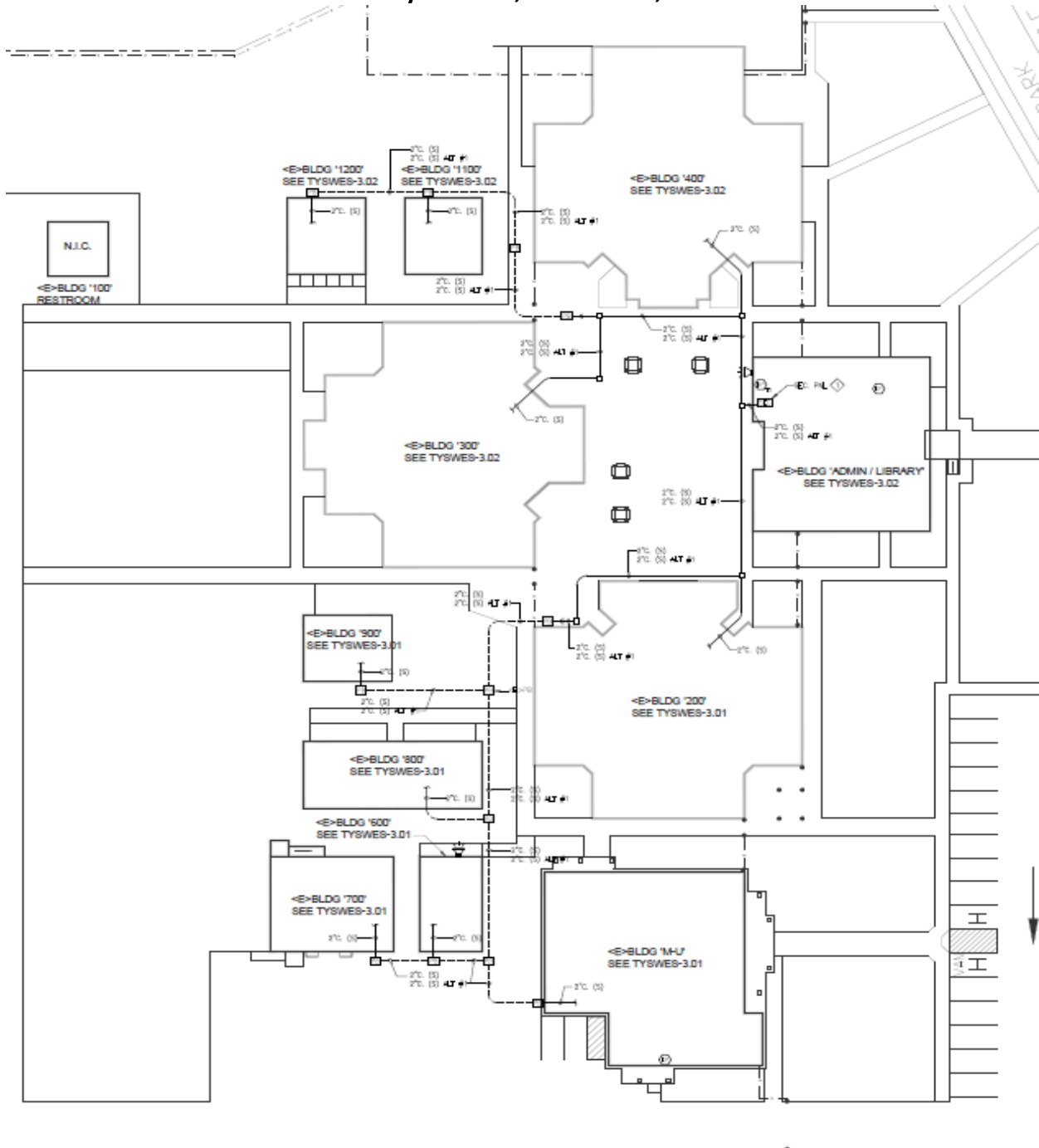


EXHIBIT "B -32"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Silverwood Elementary School
1649 Claycord Ave, Concord CA, 94521



1 SITE PLAN

EXHIBIT "B -33"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Valhalla Elementary School
530 Kiki Drive, Pleasant Hill, CA 94523

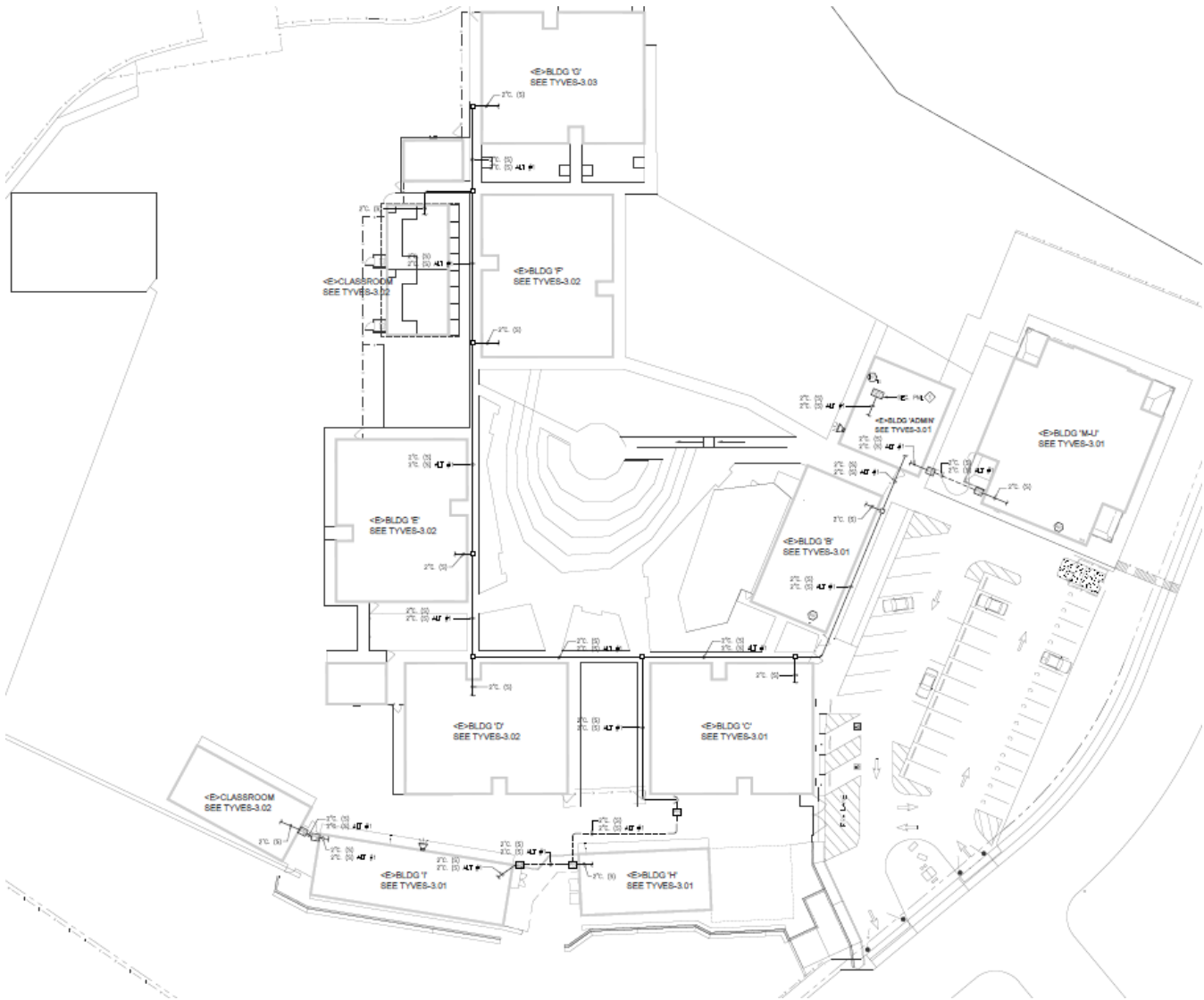
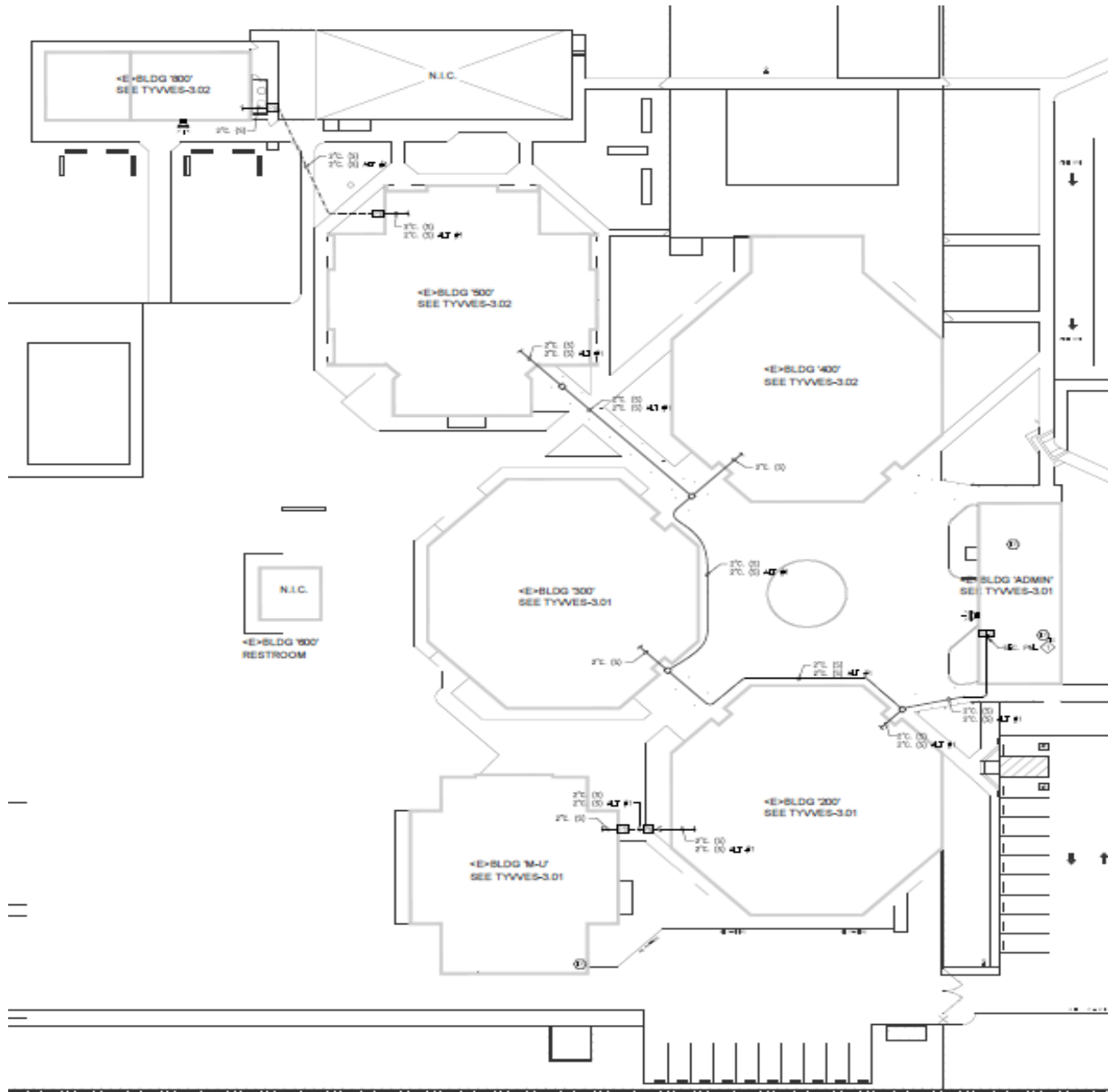


EXHIBIT "B -34"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Valle Verde Elementary School
3275 Peachwillow Lane, Walnut Creek CA, 94598



1 SITE PLAN

EXHIBIT "B-35"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Woodside Elementary School
761 San Simeon Drive, Concord CA, 94518

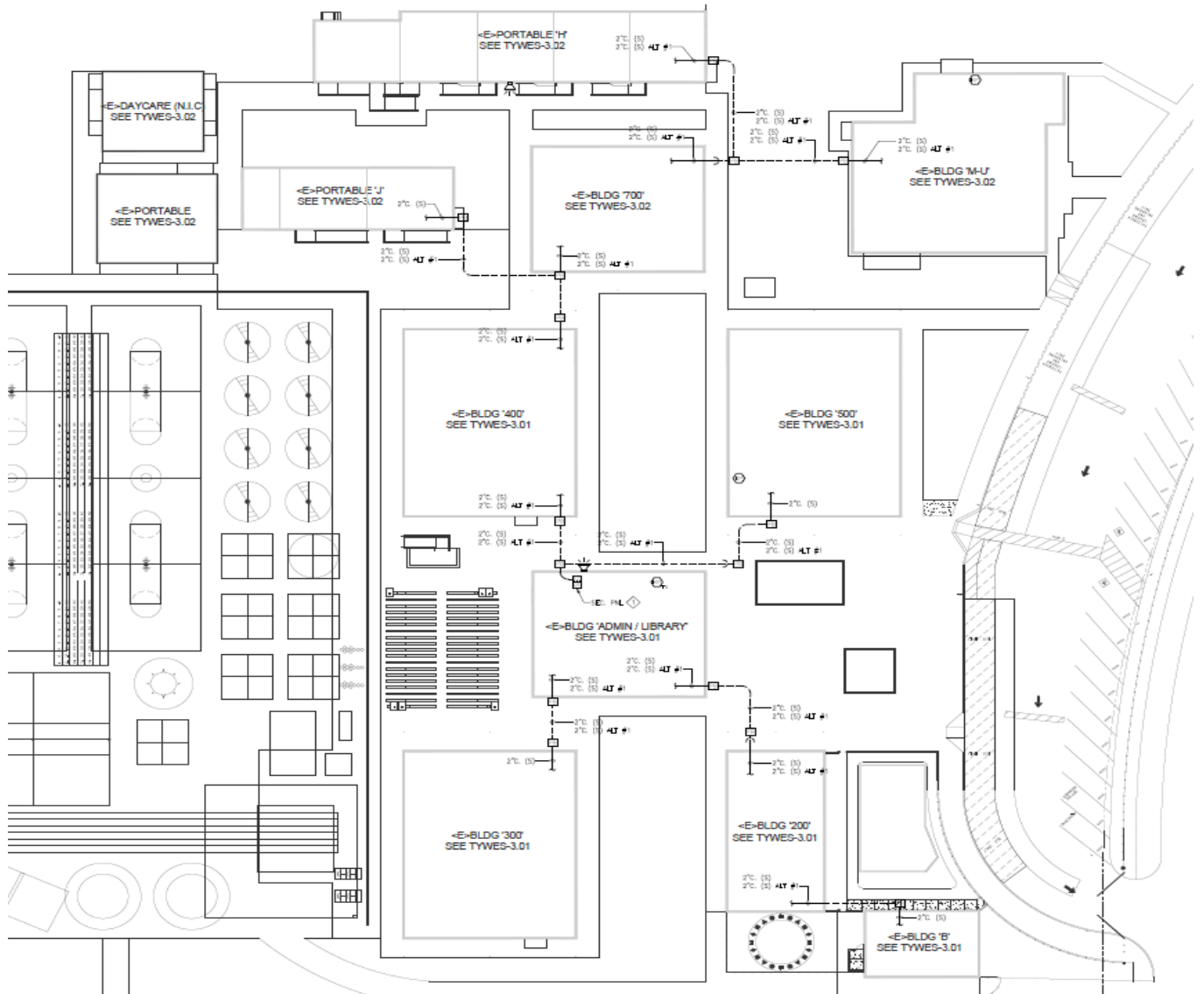


EXHIBIT "B-37"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Westwood Elementary School
1748 West Street, Concord, CA 94521

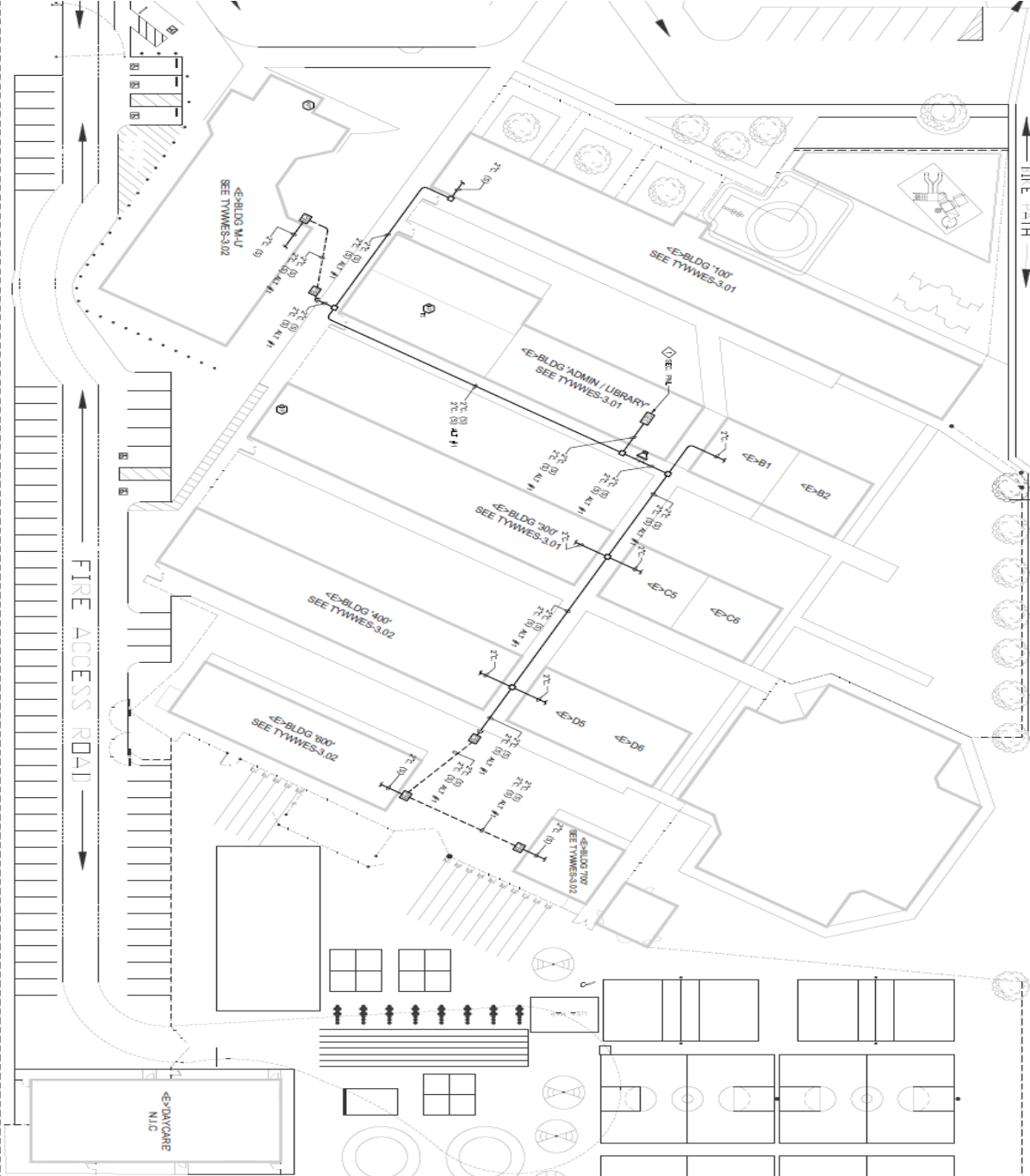


EXHIBIT "B -38"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Delta View Elementary School
2916 Rio Verde, Bay Point, CA 94565

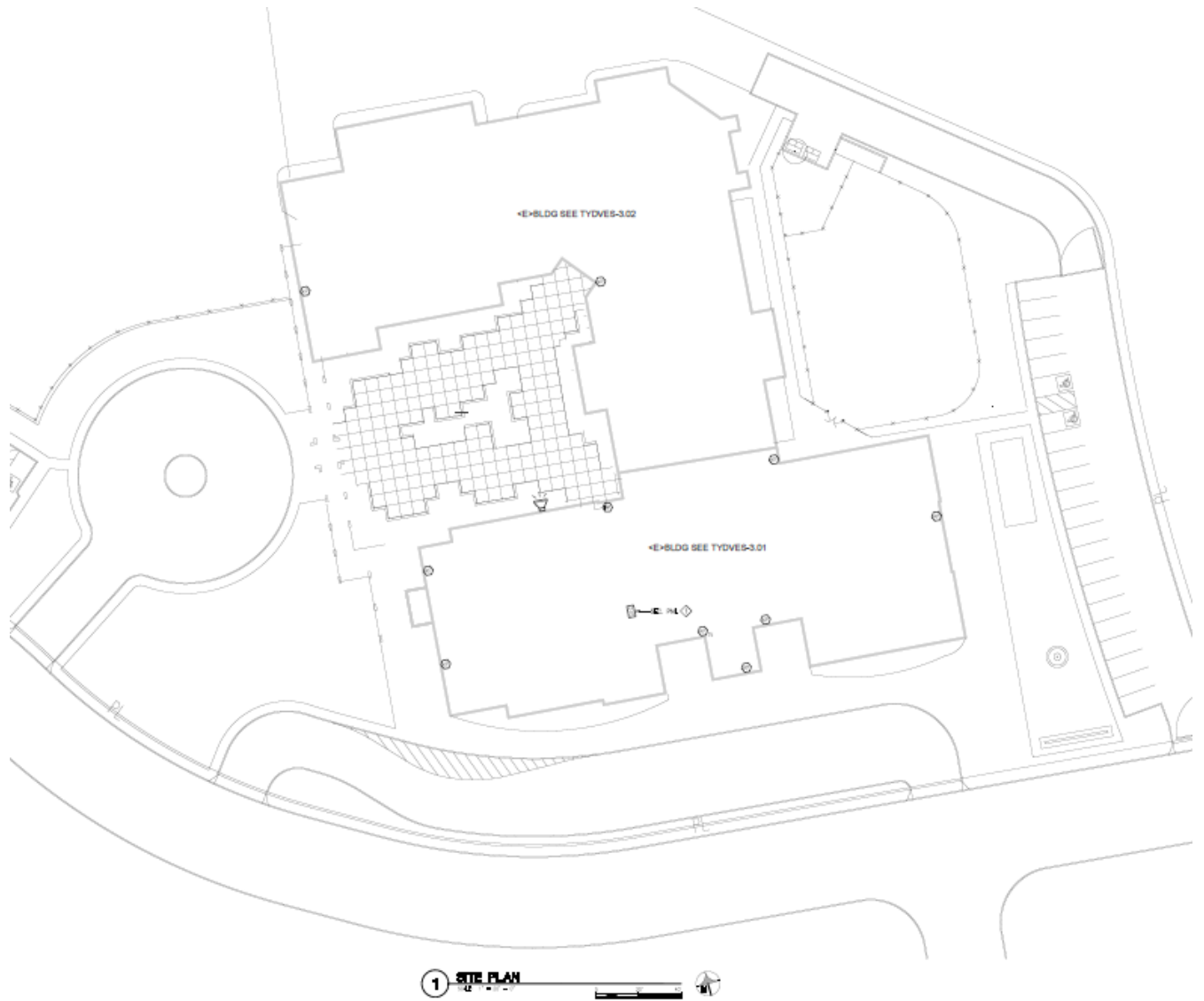


EXHIBIT "B -39"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Diablo View Middle School
300 Diablo View Lane, Clayton CA, 94517

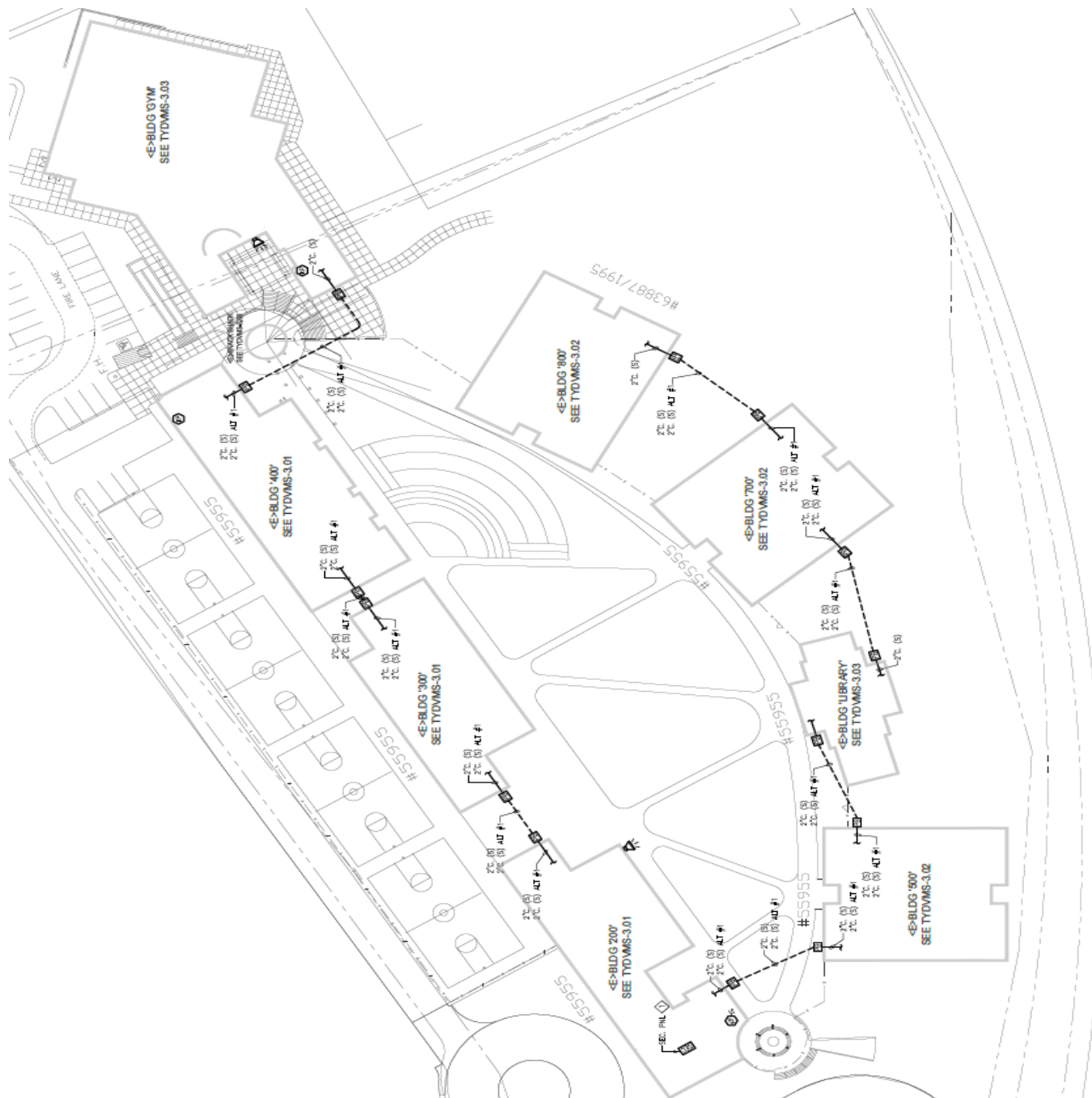


EXHIBIT "B -40"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Gregory Gardens Elementary School
1 Corritone Court, Pleasant Hill, CA 94523

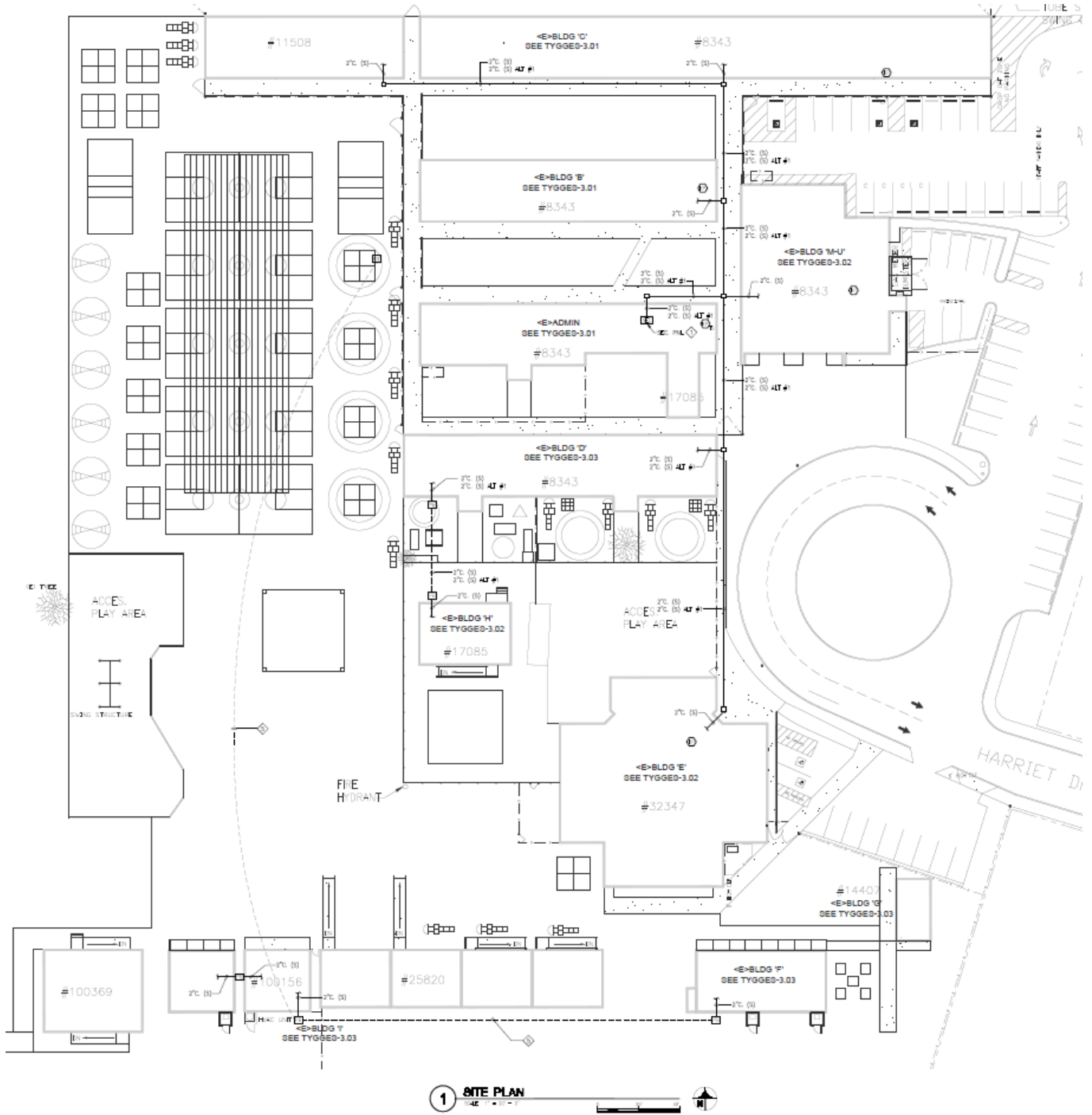


EXHIBIT "B -41"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

James Dent Administration Center
1936 Carlotta Drive, Concord, CA 94519

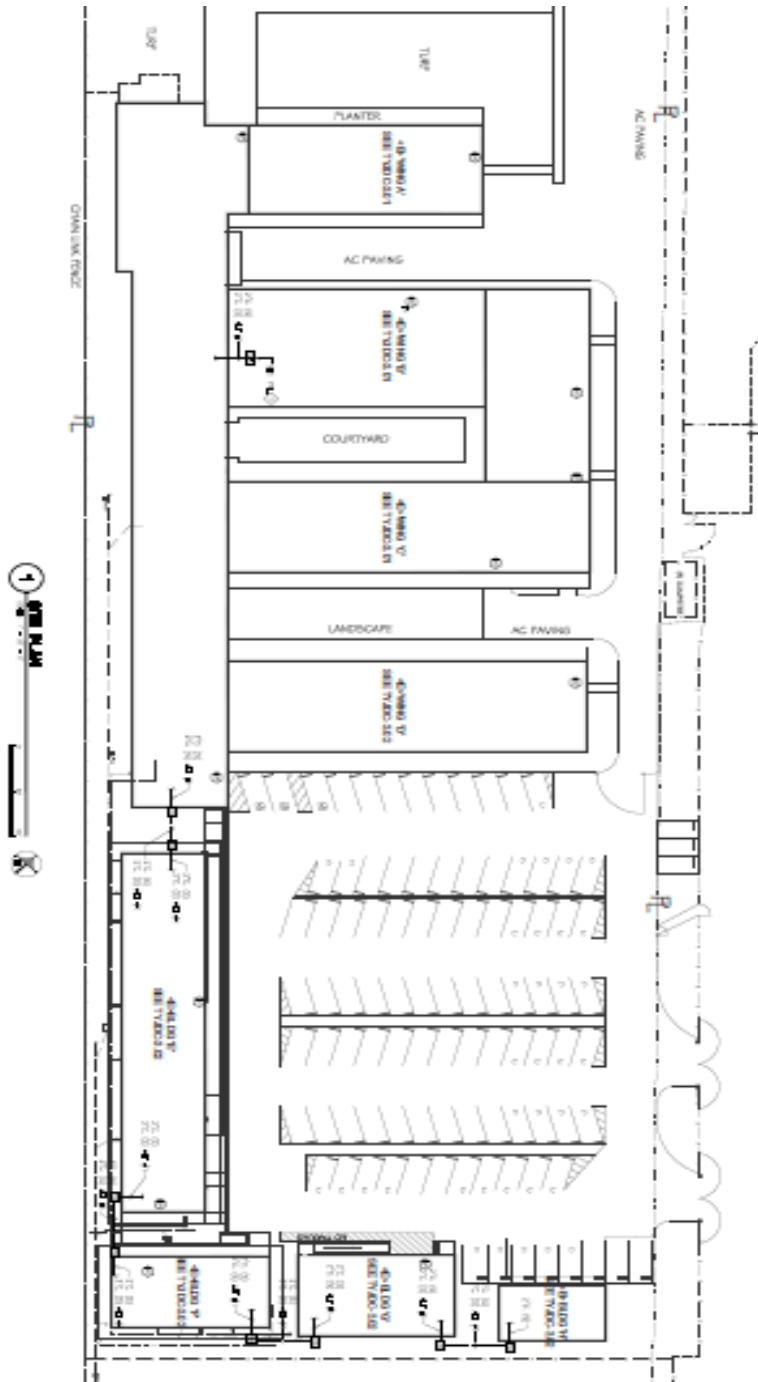


EXHIBIT "B -42"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Loma Vista Adult Center
1266 San Carlos Avenue, Concord, CA 94518

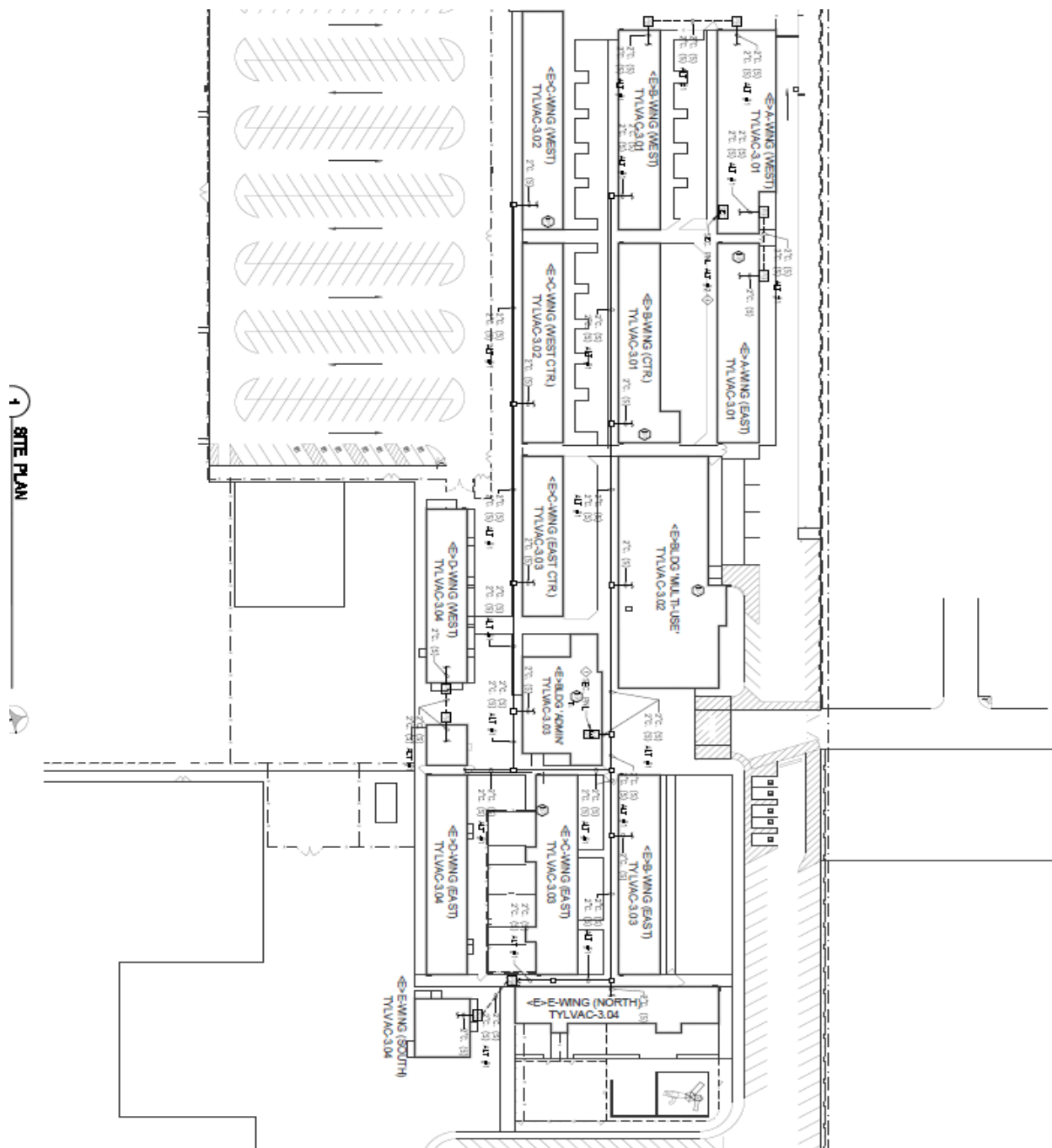


EXHIBIT "B -44"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Sunrise Elementary School
1861 Silverwood Drive, Concord, CA 94519

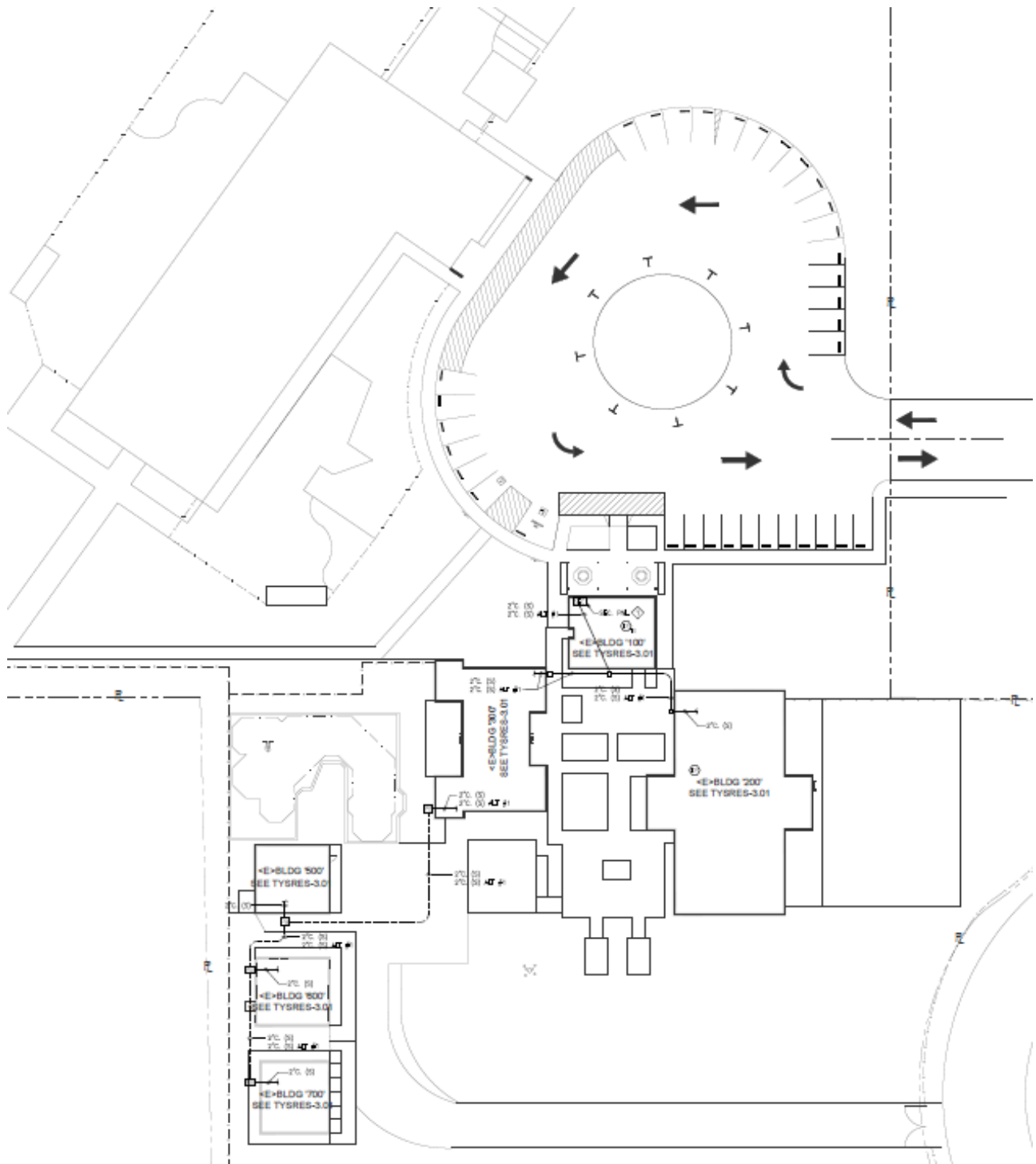


EXHIBIT "B -45"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Ayers Elementary School
5120 Myrtle Drive, Concord, CA 94521

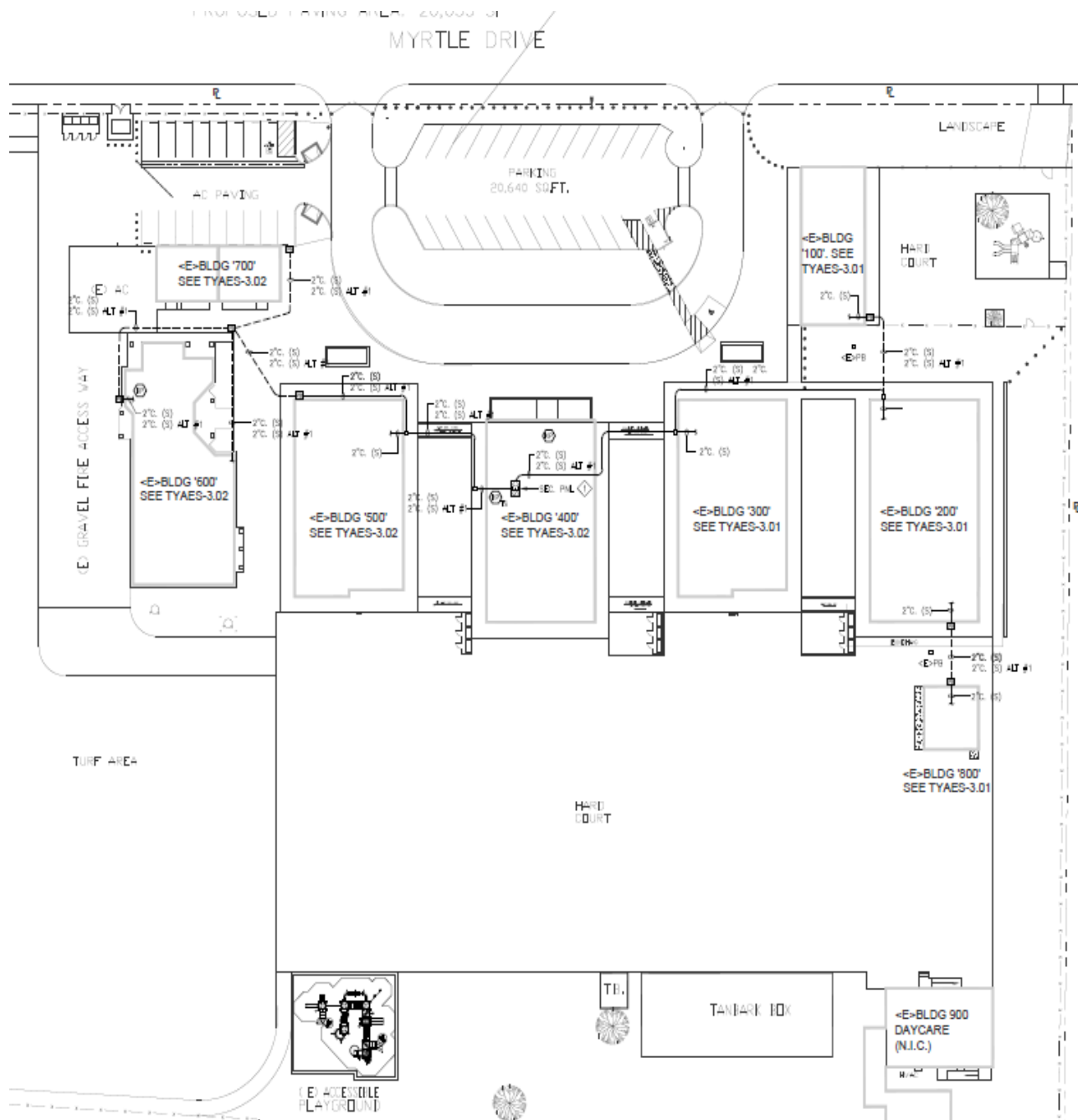


EXHIBIT "B -46"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Bel Air Elementary School
6632 Canal Road, Bay Point, CA 94565

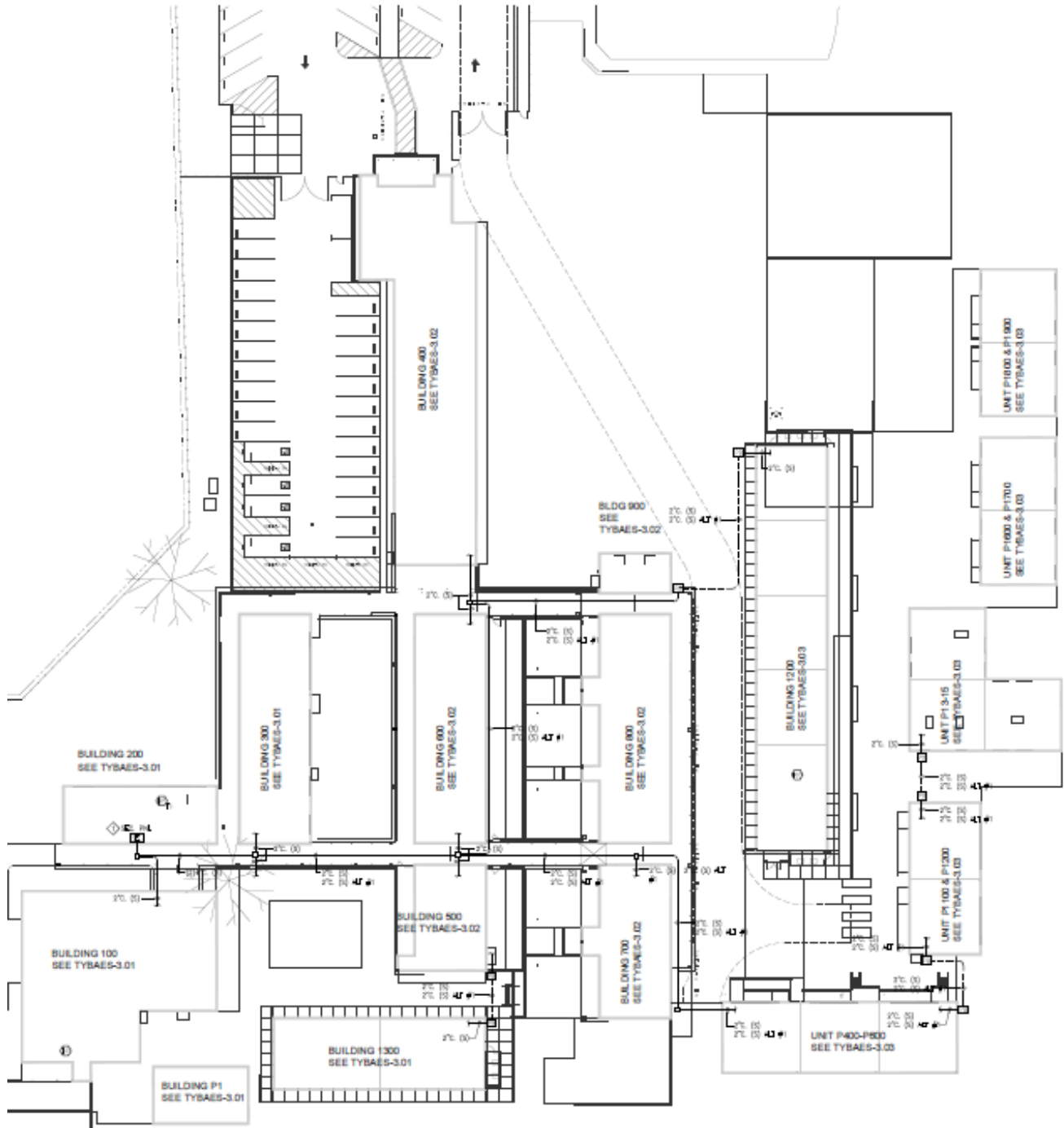
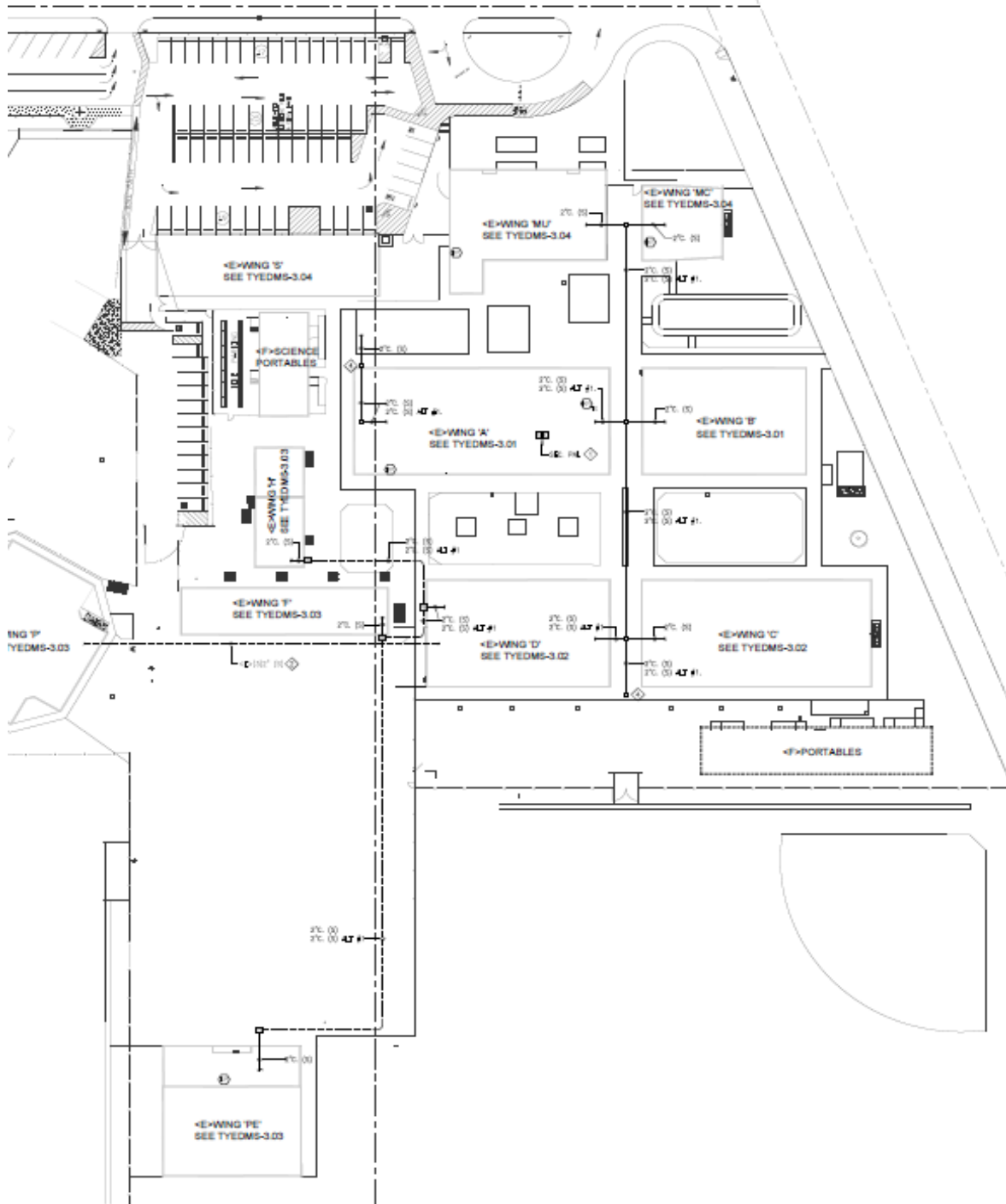


EXHIBIT "B -47"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

El Dorado Middle School
1750 West Street, Concord, CA 94521



1 SITE PLAN

EXHIBIT "B -48"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Foothill Middle School
2775 Cedro Lane, Walnut Creek, CA 94598

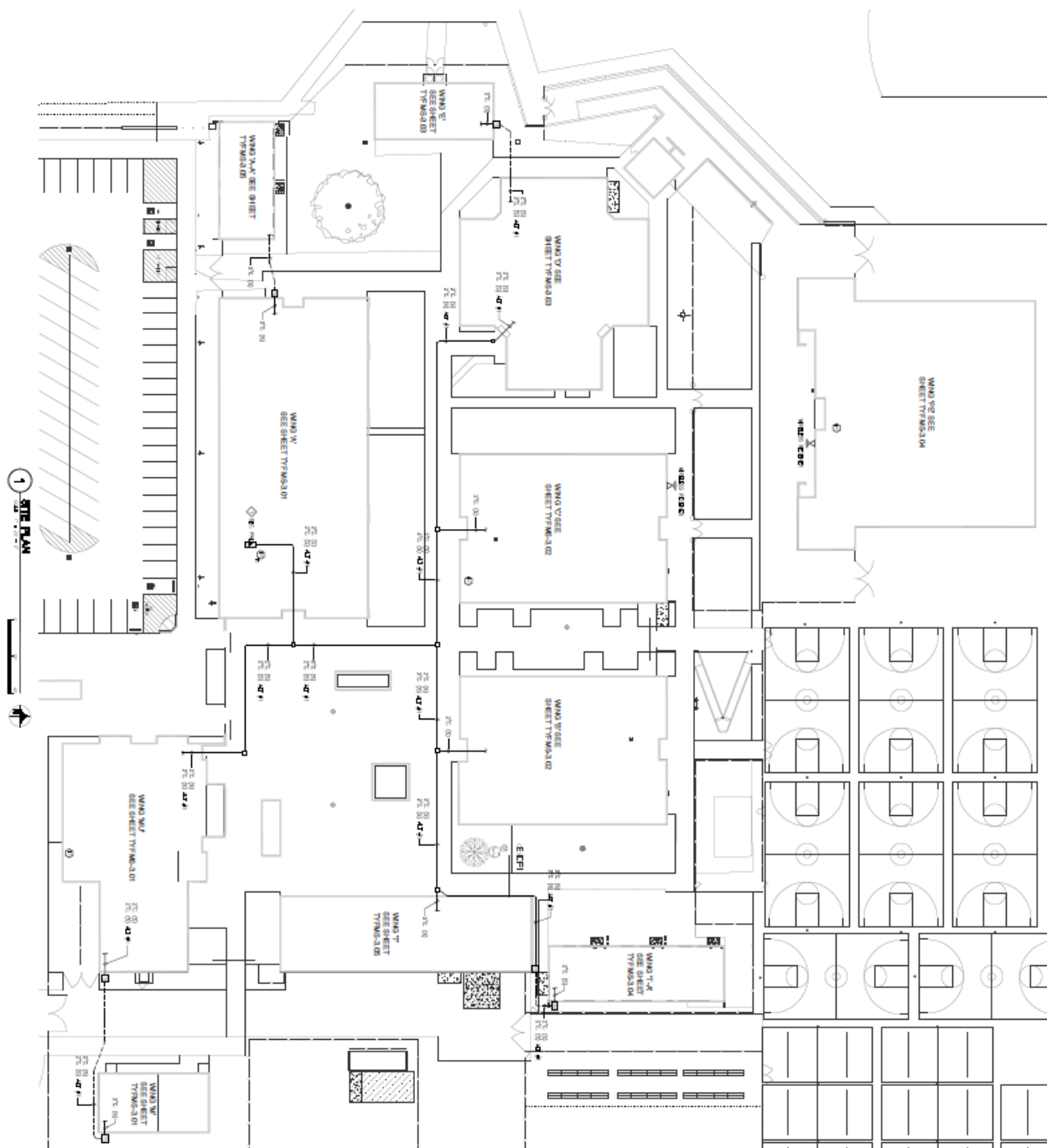


EXHIBIT "B -50"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Mt Diablo Elementary School
5880 Mt. Zion Drive, Clayton, CA 94517

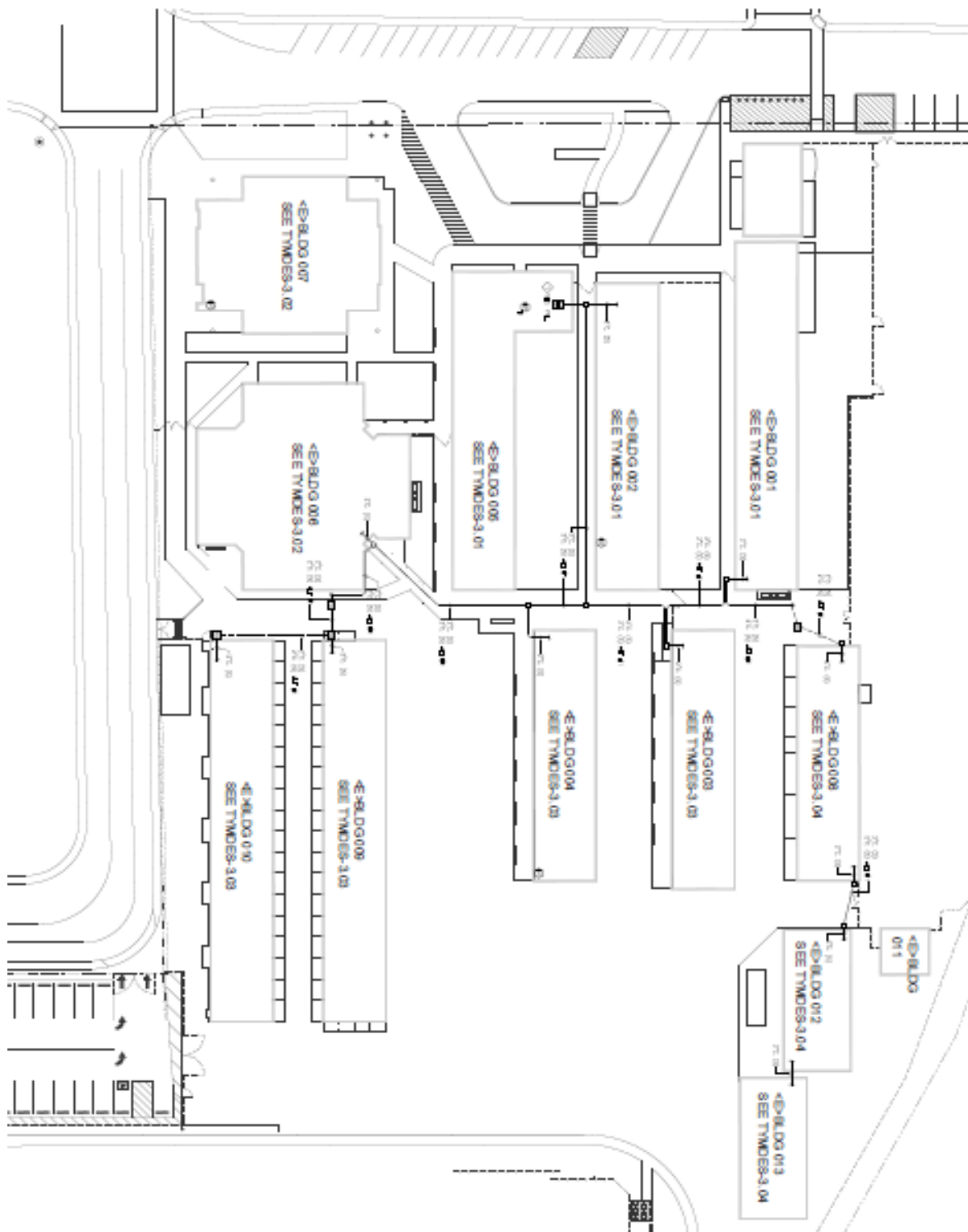


EXHIBIT "B -51"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Oak Grove Middle School
2050 Minert Road, Concord, CA 94518

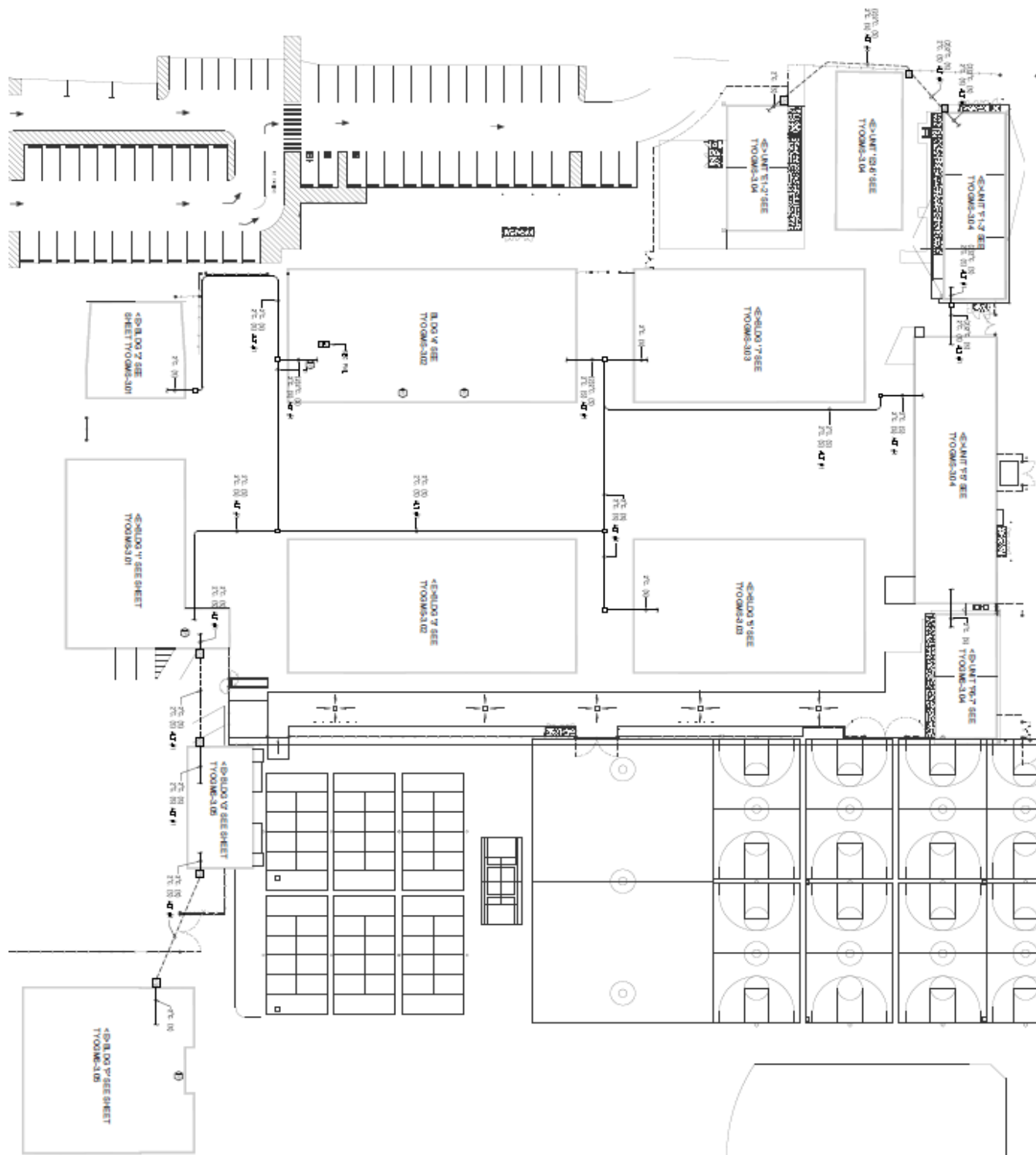


EXHIBIT "B -52"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Riverview Middle School
205 Pacifica Avenue, Bay Point, CA 94565

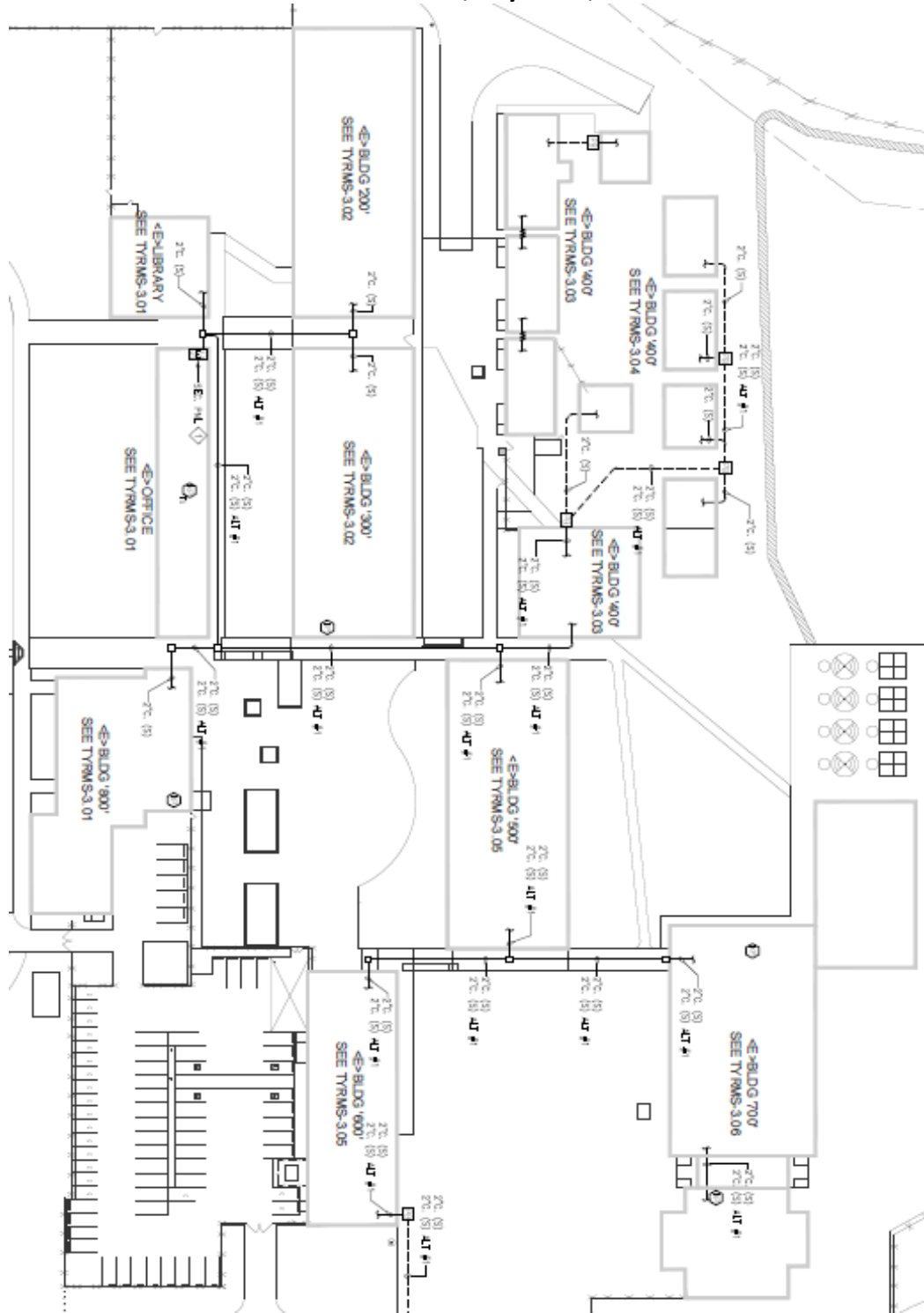
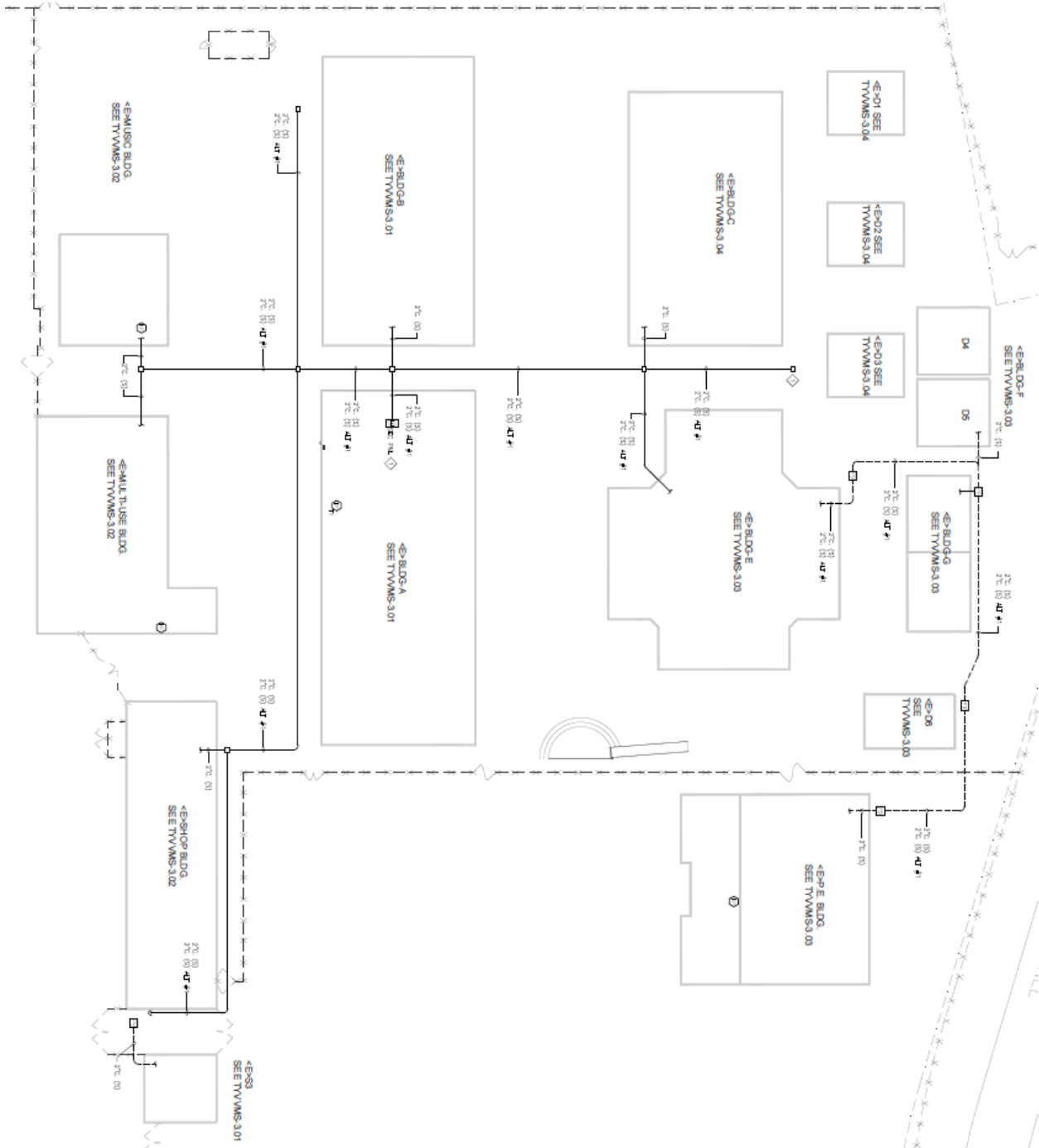


EXHIBIT "B-53"
DESCRIPTION OF SCHOOL SITE
Attached is the Legal Description for:

Valley View Middle School
181 Viking Drive, Pleasant Hill, CA 94523



**EXHIBIT "C"
TO
FACILITIES LEASE**

**GUARANTEED PROJECT COST AND
OTHER PROJECT COST, FUNDING, AND PAYMENT PROVISIONS**

1. Site Lease Payments. As indicated in the Site Lease, Developer shall pay One Dollar (\$1.00) to the District as consideration for the Site Lease.

2. Guaranteed Project Cost. Pursuant to the Facilities Lease, Developer will cause the Project to be constructed for **Eight Million, Eight hundred Eighty three thousand, seven hundred sixty and 49/100 Dollars (\$8,883,760.49)**, ("Guaranteed Project Cost"). Except as indicated herein for modifications to the Project approved by the District, Developer will not seek additional compensation from District in excess of Guaranteed Project Cost. District shall pay the Guaranteed Project Cost to Developer in the form of Tenant Improvement Payments and Lease Payments as indicated herein. The Guaranteed Project Cost includes the following components and as further detailed herein:

2.1. Cost to Perform Work.

2.1.1. **Subcontract Costs.** Payments made by the Developer to Subcontractors, which payments shall be made in accordance with the requirements of the Contract Documents.

2.1.2. **Developer-Performed Work.** Costs incurred by the Developer for self-performed work.

2.2. General Conditions. The amount to be paid be for all costs for labor, equipment and materials for the items identified therein which are necessary for the proper management of the Project, and shall include all costs paid or incurred by the Developer for insurance (except for general liability insurance), permits, taxes, and all contributions, assessments and benefits, holidays, vacations, retirement benefits, and incentives, whether required by law or collective bargaining agreements or otherwise paid or provided by Developer to its employees. The District reserves the right to request changes to the personnel, equipment, or facilities provided as General Conditions as may be necessary or appropriate for the proper management of the Project, in which case, the District shall be entitled to a reduction in the cost of General Conditions.

2.3. Fees. All fees, assessments and charges that are required to be paid to other agencies or entities to permit, authorize or entitle construction, reconstruction or completion of the Project.

2.4. Allowances. The following allowances are within the Guaranteed Project Cost. Developer shall be permitted to charge only its direct costs to perform the work, as indicated through documentation approved to the District. Developer shall not include in its charge(s) under a particular allowance the coordination, supervision, bond costs, overhead and profit, installation and all indirect costs associated with performing the work of each allowance.

2.4.1. **N/A**

Any unused allowance or unused portion thereof shall be deducted from the Cost of the Work. The amount to deduct shall be calculated using the steps in the "Changes in the Work" provisions of **Exhibit "D"** to the Facilities Lease including the Deductive Change Order provisions therein.

2.5. Contingency. Contingency of **Two hundred fifty eight Thousand, seven hundred fifty and 31/100 Dollars (\$258,750.31)**. The Contingency shall not be used without the agreement of the District. The unused portion of the Contingency shall be retained by the District at the end of the Project. The Contingency shall only be used for potential additional construction costs that occur over the course of construction as follows and that are for:

2.5.1. Conflicts, ambiguities or omissions in the scope(s) of Work that Developer could have discovered during its preparation of the GPC, but which Developer did not include and which Developer can document to the District's satisfaction were missed by Developer during its preparation of the GPC. The Developer cannot request any additional fee for its fee for this use of the Contingency; or

2.5.2. Unforeseen conditions, cost overruns or costs of accelerating portions of the Work.

2.6. Bonds and Insurance.

2.7. Overhead and Profit.

3. Payment of Guaranteed Project Cost. District shall pay the Guaranteed Project Cost to Developer in the form of Tenant Improvement Payments and Lease Payments as indicated herein.

3.1. Tenant Improvement Payments. Prior to the District's taking delivery or occupancy of the Project, the District shall pay to Developer **Eight Million, six hundred twenty five thousand, ten and 19/100 Dollars (\$8,625,010.19)** ("Tenant Improvement Payment(s)"), based on the amount of Work performed according to the Developer's Schedule of Values (**Exhibit "G"** to the Facilities Lease) and pursuant to the provisions in **Exhibit "D"** to the Facilities Lease.

3.2. Lease Payments. After the Parties execute the Memorandum of Commencement Date, attached to the Facilities Lease as **Exhibit "E,"** the District shall pay to Developer **Eight hundred sixty two thousand, five hundred and 96/100 Dollars (\$862,500.96)** ("Lease Payment(s)"), as indicated below.

3.2.1. The Lease Payments shall be consideration for the District's rental, use, and occupancy of the Project and the Project Site and shall be made in equal monthly installments for the duration of the Term.

3.2.2. The District represents that the total annual Lease Payment obligation does not surpass the District's annual budget and will not require the District to increase or impose additional taxes or obligations on the public that did not exist prior to the execution of the Facilities Lease.

3.2.3. **Fair Rental Value.** District and Developer have agreed and determined that the total Lease Payments constitute adequate consideration for the Facilities Lease and are reasonably equivalent to the fair rental value of the Project. In making such determination, consideration has been given to the obligations of the Parties under the Facilities Lease and Site Lease, the uses and purposes which may be served by the Project and the benefits therefrom which will accrue to the District and the general public.

3.2.4. **Each Payment Constitutes a Current Expense of the District.**

3.2.4.1. The District and Developer understand and intend that the obligation of the District to pay Lease Payments and other payments hereunder constitutes a current expense of the District and shall not in any way be construed to be a debt of the District in contravention of any applicable constitutional or statutory limitation or requirement concerning the creation of indebtedness by the District, nor shall anything contained herein constitute a pledge of the general tax revenues, funds or moneys of the District.

3.2.4.2. Lease Payments due hereunder shall be payable only from current funds which are budgeted and appropriated or otherwise made legally available for this purpose. This Facilities Lease shall not create an immediate indebtedness for any aggregate payments that may become due hereunder.

3.2.4.3. The District covenants to take all necessary actions to include the estimated Lease Payments in each of its final approved annual budgets.

3.2.4.4. The District further covenants to make all necessary appropriations (including any supplemental appropriations) from any source of legally available funds of the District for the actual amount of Lease Payments that come due and payable during the period covered by each such budget. Developer acknowledges that the District has not pledged the full faith and credit of the District, State of California or any state agency or state department to the payment of Lease Payments or any other payments due hereunder. The covenants on the part of District contained in this Facilities Lease constitute duties imposed by law and it shall be the duty of each and every public official of the District to take such action and do such things as are required by law in the performance of the official duty of such officials to enable the District to carry out and perform the covenants and agreements in this Facilities Lease agreed to be carried out and performed by the District.

3.2.4.5. The Developer cannot, under any circumstances, accelerate the District’s payments under the Facilities Lease.

3.2.5. The Lease Payment Amount shall be paid pursuant to the following structure and the annual interest rate shall be at or below the then current Prime Rate as published in the Wall Street Journal plus two percent (2%):

Date of Payment	(A) Total Lease Payment	(B) Total Interest Due on Lease Payment	Total Lease Payment plus interest due by District to Developer (A + B)
35 days after NOC filed	\$143,750.00		
65 days after NOC filed	\$143,750.00		
95 days after NOC filed	\$143,750.00		
125 days after NOC filed	\$143,750.00		
155 days after NOC filed	\$143,750.00		
185 days after NOC filed	\$143,750.96		

3.2.6. **Financed Portion of Lease Payments.** The District does not at this time believe it will need the Developer to finance a portion of the Lease Payments. The District and the Developer have agreed that the District may request at a future time that the Developer agree to convert a portion of the Tenant Improvement Payments into Lease Payments and revise the Lease Payment schedule. If the District makes this request, the District and the Developer agree to negotiate in good faith regarding whether Developer can provide that financing, the amount of that financing, and the terms of that financing,

which, if agreed to, shall be memorialized in a written amendment to the Facilities Lease and approved by the Parties.

3.3. In no event shall the cumulative total of the Tenant Improvement Payments and the Lease Payments ever exceed the Guaranteed Project Price as defined herein, unless modified pursuant to **Exhibit "D"** to the Facilities Lease.

4. Changes to Guaranteed Project Cost.

4.1. As indicated in the Facilities Lease, the Parties may add or remove specific scopes of work from the Project. Based on these change(s), the Parties may agree to a reduction or increase in the Guaranteed Project Cost. If a cost impact or a change is agreed to by the Parties, it shall be reflected as a reduction or increase in the Tenant Improvement Payments and paid upon the payment request from the Developer when the work is performed, or deducted from the next payment request from the Developer, as applicable.

4.2. The Parties acknowledge that the Guaranteed Project Cost is based on the Construction Documents, including the plans, and specifications, as identified in **Exhibit "D"** to the Facilities Lease.

4.3. Cost Savings. Developer shall work cooperatively with Architect, subcontractors and District, in good faith, to identify appropriate opportunities to reduce the Project costs and promote cost savings. Any identified cost savings from the Guaranteed Project Cost shall be identified by Developer, and if approved in writing by the District, that cost savings shall be deducted from the Guaranteed Project Cost. If any cost savings require revisions to the Construction Documents, Developer shall work with the District with respect to revising the Construction Documents and, if necessary, obtaining the approval of DSA with respect to those revisions. At the District's discretion, any reasonable cost incurred by District and/or the Developer for those revisions may be paid for out of the identified savings before it is deducted from the Guaranteed Project Cost. Developer shall be entitled to an extension of Contract Time equal to the delay in Project Completion caused by any cost savings adopted by District, if requested in writing before the approval of the cost savings.

5. District's Purchase Option

5.1. If the District is not then in uncured Default hereunder, the District shall have the option to purchase not less than all of the Project in its "as-is, where-is" condition and terminate this Facilities Lease and Site Lease by paying the total remaining unpaid Lease Payments as of the date the option is exercised ("Option Price").

5.2. District shall provide Developer no less than three (3) days' prior written notice that District is exercising its option to purchase the Project as set forth above on a specific date ("Option Date"). If the District exercises this option, the District shall pay directly to Developer the Option Price on or prior to the Option Date and Developer shall at that time deliver to District all reasonably necessary documents in recordable form to terminate this Facilities Lease and the Site Lease. District may record all such documents at District's cost and expense.

5.3. Under no circumstances can the first Option Date be on or before thirty-five (35) days after the Developer completes the Project and the District accepts the Project.

**EXHIBIT “D”
TO
FACILITIES LEASE**

GENERAL CONSTRUCTION PROVISIONS

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This Exhibit D constitutes the “General Construction Provisions” that govern the overall construction and Project Completion by Developer.

1. CONTRACT TERMS AND DEFINITIONS

1.1. Definitions

Wherever used in the Contract Documents, the following terms shall have the meanings indicated, which shall be applicable to both the singular and plural thereof:

1.1.1. Adverse Weather: Shall be only weather that satisfies all of the following conditions: (1) unusually severe precipitation, sleet, snow, hail, heat, or cold conditions in excess of the norm for the location and time of year it occurred, and (2) at the Project.

1.1.2. Allowance: Amount(s) included in the Guaranteed Project Cost that the Parties agree shall be used, if used at all, to pay for the construction of the specific scope of work identified with that amount of money. By agreeing to an Allowance amount, the Parties agree (1) the specific scope of Work may not be necessary; (2) the cost to perform the specific scope of Work cannot be determined on the Effective Date; (3) is a reasonable estimate of the cost to do the specific scope of Work.

1.1.3. Approval, Approved, and/or Accepted: Refer to written authorization, unless stated otherwise.

1.1.4. Architect: The individual, partnership, corporation, joint venture, or any combination thereof, named as Architect, who will have the rights and authority assigned to the Architect in the Contract Documents. The term Architect means the District's Architect on this Project or the Architect's authorized representative.

1.1.5. Beneficial Occupancy: Occupancy of the Project by the District for its intended purpose and which produces relatively little interference with the Developer in completing construction.

1.1.6. Change Order: A written order to the Developer authorizing an addition to, deletion from, or revision in the Work, and/or authorizing an adjustment in the Guaranteed Project Cost or Contract Time.

1.1.7. Construction Change Directive: A written order prepared and issued by the District, the Construction Manager, and/or the Architect and signed by the District and the Architect, directing a change in the Work.

1.1.8. Construction Manager: The individual, partnership, corporation, joint venture, or any combination thereof, or its authorized representative, named as such by the District. If no Construction Manager is used on the Project that is the subject of this Contract, then all references to Construction Manager herein shall be read to refer to District.

1.1.9. Construction Schedule: The progress schedule of construction of the Project as provided by Developer and approved by District.

1.1.10. Contract, Contract Documents: The Contract consists exclusively of the documents evidencing the agreement of the District and Developer, identified as the Contract Documents. The Contract Documents consist of the following documents:

- 1.1.10.1. Site Lease
- 1.1.10.2. Master Facilities Lease, with all of its Exhibits
- 1.1.10.3. These General Construction Provisions

- 1.1.10.4. Noncollusion Affidavit
- 1.1.10.5. Workers' Compensation Certification
- 1.1.10.6. Prevailing Wage Certification
- 1.1.10.7. Disabled Veterans Business Enterprise Participation Certification
- 1.1.10.8. Drug-Free Workplace Certification
- 1.1.10.9. Tobacco-Free Environment Certification
- 1.1.10.10. Lead-Based Paint Certification
- 1.1.10.11. Hazardous Materials Certification
- 1.1.10.12. Imported Materials Certification
- 1.1.10.13. Criminal Background Investigation/Fingerprinting Certification
- 1.1.10.14. Roofing Contract Financial Interest Certification
- 1.1.10.15. Storm Water Pollution Prevention Plan
- 1.1.10.16. Labor Compliance Program Information and Forms
- 1.1.10.17. Performance Bond
- 1.1.10.18. Payment Bond (Developer's Labor & Material Bond)
- 1.1.10.19. All Division 1 Documents, which shall only supplement these General Construction Provisions, but shall not control if their provisions contradict these Construction Provisions
- 1.1.10.20. All Plans, Technical Specifications, and Drawings
- 1.1.10.21. Any and all addenda to any of the above documents
- 1.1.10.22. Any and all change orders or written modifications to the above documents if approved in writing by the District

1.1.11. **Contract Time:** The time period stated in the Master Facilities Lease for Project Completion.

1.1.12. **Daily Job Report(s):** Daily Project reports prepared by the Developer's employee(s) who are present on a Site, which shall include the information required herein.

1.1.13. **Day(s):** Unless otherwise designated, day(s) means calendar day(s).

1.1.14. **Developer (or "Contractor"):** The entity identified in the Master Facilities Lease as contracting to perform the Work to be done under this Contract, or the legal representative of such a person or persons.

1.1.15. **District (or "Owner"):** The public agency or the school district for which the Work is performed. The governing board of the District or its designees will act for the District in all matters pertaining to the Contract. The District may, at any time,

1.1.15.1. Direct the Developer to communicate with or provide notice to the Construction Manager or the Architect on matters for which the Contract Documents indicate the Developer will communicate with or provide notice to the District; and/or

1.1.15.2. Direct the Construction Manager or the Architect to communicate with or direct the Developer on matters for which the Contract Documents indicate the District will communicate with or direct the Developer.

1.1.16. **Drawings: (or "Plans")** The graphic and pictorial portions of the Contract Documents showing the design, location, scope and dimensions of the work, generally including plans, elevations, sections, details, schedules, sequence of operation, and diagrams.

1.1.17. **DSA:** Division of the State Architect.

1.1.18. **Guaranteed Project Cost (or "Contract Price"):** The total monies payable to the Developer under the terms and conditions of the Contract Documents.

1.1.19. Labor Compliance Program: (or “LCP”) If this Project is funded at least in part with State bond funds, then the LCP is the program and related documents and practices necessary for the program by which the Department of Industrial Relations Compliance Monitoring Unit, the District and/or its designee will ensure that the Developer and all Subcontractors pay prevailing wages to all workers on the Project.

1.1.20. Product(s): New material, machinery, components, equipment, fixtures and systems forming the Work, including existing materials or components required and approved by the District for reuse.

1.1.21. Product Data: Illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by the Developer to illustrate a material, product, or system for some portion of the Work.

1.1.22. Project: The planned undertaking as provided for in the Contract Documents.

1.1.23. Project Completion: Where the Work to construct the Project is 100% complete, including all punch list items. Final DSA approval of the Project is not required for Project Completion.

1.1.24. Project Inspector (or “Inspector” or “IOR”): The individual(s) retained by the District in accordance with title 24 of the California Code of Regulations to monitor and inspect the Project.

1.1.25. Program Manager: The individual, partnership, corporation, joint venture, or any combination thereof, or its authorized representative, named as such by the District. If no Program Manager is designated for Project that is the subject of this Contract, then all references to Project Manager herein shall be read to refer to District.

1.1.26. Provide: Shall include “provide complete in place,” that is, “furnish and install,” and “provide complete and functioning as intended in place” unless specifically stated otherwise.

1.1.27. Request for Information (or “RFI”): A written request prepared by the Developer requesting that the Architect provide additional information necessary to clarify or amplify an item in the Contract Documents that the Developer believes is not clearly shown or called for in the Drawings or Specifications or other portions of the Contract Documents, or to address problems that have arisen under field conditions.

1.1.28. Request for Substitution: A request by Developer to substitute an equal or superior material, product, thing, or service for a specific material, product, thing, or service that has been designated in the Contract Documents by a specific brand or trade name.

1.1.29. Safety Orders: Written and/or verbal orders for construction issued by the California Division of Industrial Safety (“CalOSHA”) or by the United States Occupational Safety and Health Administration (“OSHA”).

1.1.30. Safety Plan: Developer’s safety plan specifically adapted for the Project. Developer’s Safety Plan shall comply with all provisions regarding Project safety, including all applicable provisions in these General Construction Provisions.

1.1.31. Samples: Physical examples that illustrate materials, products, equipment, finishes, colors, or workmanship and that, when approved in accordance with the Contract Documents, establish standards by which portions of the Work will be judged.

1.1.32. Shop Drawings: All drawings, prints, diagrams, illustrations, brochures, schedules, and other data that are prepared by the Developer, a subcontractor, manufacturer, supplier, or distributor, that illustrate how specific portions of the Work shall be fabricated or installed.

1.1.33. Site: The Project site as shown on the Drawings.

1.1.34. Specifications: That portion of the Contract Documents, Division 1 through Division 49, and all technical sections, and addenda to all of these, if any, consisting of written descriptions and requirements of a technical nature of materials, equipment, construction methods and systems, standards, and workmanship.

1.1.35. Subcontractor: A contractor and/or supplier who is under contract with the Developer or with any other subcontractor, regardless of tier, to perform a portion of the Work of the Project.

1.1.36. Submittal Schedule: The schedule of submittals as provided by Developer and approved by District.

1.1.37. Surety: The person, firm, or corporation that executes as surety the Developer's Performance Bond and Payment Bond, and must be a California admitted surety insurer as defined in the Code of Civil Procedure section 995.120.

1.1.38. Work: All labor, materials, equipment, components, appliances, supervision, coordination, and services required by, or reasonably inferred from, the Contract Documents, that are necessary for Project Completion.

1.2. Laws Concerning The Contract

Contract is subject to all provisions of the Constitution and laws of California governing, controlling, or affecting District, or the property, funds, operations, or powers of District, and such provisions are by this reference made a part hereof. Any provision required by law to be included in this Contract shall be deemed to be inserted.

1.3. No Oral Agreements

No oral agreement or conversation with any officer, agent, or employee of District, either before or after execution of Contract, shall affect or modify any of the terms or obligations contained in any of the documents comprising the Contract.

1.4. No Assignment

Except as specifically permitted in the Master Facilities Lease, Developer shall not assign this Contract or any part thereof including, without limitation, any services or money to become due hereunder without the prior written consent of the District. Assignment without District's prior written consent shall be null and void. Any assignment of money due or to be come due under this Contract shall be subject to a prior lien for services rendered or material supplied for performance of work called for under this Contract in favor of all persons, firms, or corporations rendering services or supplying material to the extent that claims are filed pursuant to the Civil Code, Code of Civil Procedure, Government Code, Labor Code, and/or Public Contract Code, and shall also be subject to deductions for liquidated damages or withholding of payments as determined by District in accordance with this Contract. Developer shall not assign or transfer in any manner to a Subcontractor or supplier the right to prosecute or maintain an action against the District.

1.5. Notice And Service Thereof

1.5.1. Any notice from one party to the other or otherwise under Contract shall be in writing and shall be dated and signed by the party giving notice or by a duly authorized representative of that party. Any notice shall not be effective for any purpose whatsoever unless served as indicated in the Master Facilities Lease.

1.6. No Waiver

The failure of District in any one or more instances to insist upon strict performance of any of the terms of this Contract or to exercise any option herein conferred shall not be construed as a waiver or relinquishment to any extent of the right to assert or rely upon any such terms or option on any future occasion. No action or failure to act by the District, Architect, or Construction Manager shall constitute a waiver of any right or duty afforded the District under the Contract, nor shall any action or failure to act constitute an approval of or acquiescence in any breach thereunder, except as may be specifically agreed in writing.

1.7. Substitutions For Specified Items

Developer shall not substitute any items identified in the Contract Documents without complying with the procedures indicated in the Contract Documents and without prior written approval of the District.

1.8. Materials and Work

1.8.1. Except as otherwise specifically stated in this Contract, Developer shall provide and pay for all materials, labor, tools, equipment, transportation, supervision, temporary constructions of every nature, and all other services, management, and facilities of every nature whatsoever necessary to execute and complete this Contract within the Contract Time.

1.8.2. Unless otherwise specified, all materials shall be new and the best of their respective kinds and grades as noted or specified, and workmanship shall be of good quality.

1.8.3. Materials shall be furnished in ample quantities and at such times as to insure uninterrupted progress of Work and shall be stored properly and protected as required.

1.8.4. For all materials and equipment specified or indicated in the Drawings, the Developer shall provide all labor, materials, equipment, and services necessary for complete assemblies and complete working systems, functioning as intended, including incidental items not indicated on Drawings, nor mentioned in the Specifications, that can legitimately and reasonably be inferred to belong to the Work described, or be necessary in good practice to provide a complete assembly or system. In all instances, material and equipment shall be installed in strict accordance with each manufacturer's most recent published recommendations and specifications.

1.8.5. Developer shall, after award of Contract by District and after relevant submittals have been approved, place orders for materials and/or equipment as specified so that delivery of same may be made without delays to the Work. Developer shall, upon demand from District, present documentary evidence showing that orders have been placed.

1.8.6. District reserves the right but has no obligation, for any neglect in complying with the above instructions, to place orders for such materials and/or equipment as it may deem advisable in order that the Work may be completed at the date specified in the Master Facilities Lease, and all expenses

incidental to the procuring of said materials and/or equipment shall be paid for by Developer or withheld from payment(s) to Developer.

1.8.7. Developer warrants good title to all material, supplies, and equipment installed or incorporated in Work and agrees upon Project Completion to deliver the Site to District, together with all improvements and appurtenances constructed or placed thereon by it, and free from any claims, liens, or charges. Developer further agrees that neither it nor any person, firm, or corporation furnishing any materials or labor for any work covered by the Contract shall have any right to lien any portion of the Premises or any improvement or appurtenance thereon, except that Developer may install metering devices or other equipment of utility companies or of political subdivision, title to which is commonly retained by utility company or political subdivision. In the event of installation of any such metering device or equipment, Developer shall advise District as to owner thereof.

1.8.8. Nothing contained in this Article, however, shall defeat or impair the rights of persons furnishing materials or labor under any bond given by Developer for their protection or any rights under any law permitting such protection or any rights under any law permitting such persons to look to funds due Developer in hands of District (e.g., stop payment notices), and this provision shall be inserted in all subcontracts and material contracts and notice of its provisions shall be given to all persons furnishing material for work when no formal contract is entered into for such material.

1.8.9. Title to new materials and/or equipment for the Work of this Contract and attendant liability for its protection and safety shall remain with Developer until incorporated in the Work of this Contract and Title is transferred to the District pursuant to the Master Facilities Lease. No part of any materials and/or equipment shall be removed from its place of storage except for immediate installation in the Work of this Contract. Developer shall keep an accurate inventory of all materials and/or equipment in a manner satisfactory to District or its authorized representative and shall, at the District's request, forward it to the District.

2. [RESERVED]

3. ARCHITECT

3.1. The Architect shall represent the District during the Project and will observe the progress and quality of the Work on behalf of the District. Architect shall have the authority to act on behalf of District to the extent expressly provided in the Contract Documents and to the extent determined by District. Architect shall have authority to reject materials, workmanship, and/or the Work whenever rejection may be necessary, in Architect's reasonable opinion, to insure the proper execution of the Contract.

3.2. Architect shall, with the District and on behalf of the District, determine the amount, quality, acceptability, and fitness of all parts of the Work, and interpret the Specifications, Drawings, and shall, with the District, interpret all other Contract Documents.

3.3. Architect shall have all authority and responsibility established by law, including title 24 of the California Code of Regulations.

3.4. Developer shall provide District and the Construction Manager with a copy of all written communication between Developer and Architect at the same time as that communication is made to Architect, including, without limitation, all RFIs, correspondence, submittals, claims, and proposed change orders.

4. CONSTRUCTION MANAGER

4.1. If a construction manager is used on this Project (“Construction Manager” or “CM”), the Construction Manager will provide administration of the Contract on the District's behalf. After execution of the Contract, all correspondence and/or instructions from Developer and/or District shall be forwarded through the Construction Manager. The Construction Manager will not be responsible for and will not have control or charge of construction means, methods, techniques, sequences, or procedures or for safety precautions in connection with the Work, which shall all remain the Developer’s responsibility.

4.2. The Construction Manager, however, will have authority to reject materials and/or workmanship not conforming to the Contract Documents, as determined by the District, the Architect, and/or the Project Inspector. The Construction Manager shall also have the authority to require special inspection or testing of any portion of the Work, whether it has been fabricated, installed, or fully completed. Any decision made by the Construction Manager, in good faith, shall not give rise to any duty or responsibility of the Construction Manager to the Developer, any Subcontractor, their agents, employees, or other persons performing any of the Work. The Construction Manager shall have free access to any or all parts of Work at any time.

4.3. If the District does not use a Construction Manager on this Project, all references to Construction Manager or CM shall be read as District.

5. INSPECTOR, INSPECTIONS, AND TESTS

5.1. Project Inspector

5.1.1. One or more Project Inspector(s), including special Project Inspector(s), as required, will be assigned to the Work by District, in accordance with requirements of title 24, part 1, of the California Code of Regulations, to enforce the building code and monitor compliance with Plans and Specifications for the Project previously approved by the DSA. Duties of Project Inspector(s) are specifically defined in section 4-342 of said part 1 of title 24.

5.1.2. No Work shall be carried on except with the knowledge and under the inspection of the Project Inspector(s). The Project Inspector(s) shall have free access to any or all parts of Work at any time. Developer shall furnish Project Inspector(s) reasonable opportunities for obtaining such information as may be necessary to keep Project Inspector(s) fully informed respecting progress and manner of work and character of materials. Inspection of Work shall not relieve Developer from an obligation to fulfill this Contract. Project Inspector(s) and the DSA are authorized to stop work whenever the Developer and/or its Subcontractor(s) are not complying with the Contract Documents. Any work stoppage by the Project Inspector(s) and/or DSA shall be without liability to the District. Developer shall instruct its Subcontractors and employees accordingly.

5.1.3. If Developer and/or any Subcontractor requests that the Project Inspector(s) perform any inspection off-site, this shall only be done if it is allowable pursuant to applicable regulations and DSA. If the off-site inspections are more frequent than are reasonable for the type of off-site inspection, those inspections shall be at the expense of the Developer.

5.2. Tests and Inspections

5.2.1. Tests and Inspections shall comply with title 24, part 1, California Code of Regulations, group 1, article 5, section 4-335, and with the provisions of the Specifications.

5.2.2. The District will select an independent testing laboratory to conduct the tests. Selection of the materials required to be tested shall be by the laboratory or the District's representative and not by the Developer. The Developer shall notify the District's representative a sufficient time in advance of its readiness for required observation or inspection.

5.2.3. The Developer shall notify the District's representative a sufficient time in advance of the manufacture of material to be supplied under the Contract Documents, that must by terms of the Contract Documents be tested, in order that the District may arrange for the testing of same at the source of supply. This notice shall be, at a minimum, seventy-two (72) hours prior to the manufacture of the material that needs to be tested. These notifications shall be submitted in all instances via hard copy and, if requested by the Project Inspector(s), also electronically via an internet-based notification/reporting system.

5.2.4. Any material shipped by the Developer from the source of supply prior to having satisfactorily passed such testing and inspection or prior to the receipt of notice from said representative that such testing and inspection will not be required, shall not be incorporated into and/or onto the Project.

5.2.5. The District will select and pay testing laboratory costs for all tests and inspections. Costs of tests of any materials found to be not in compliance with the Contract Documents shall be paid for by the District and reimbursed by the Developer or deducted from the Guaranteed Project Cost.

5.3. Costs for After Hours and/or Off Site Inspections

If the Developer performs Work outside the Inspector's regular working hours or requests the Inspector to perform inspections off Site, costs of any inspections required outside regular working hours or off Site shall be borne by the Developer and may be invoiced to the Developer by the District or the District may deduct those expenses from the next Tenant Improvement Payment.

6. DEVELOPER

Developer shall construct the Work for the Contract price including any adjustment(s) to the Guaranteed Project Cost pursuant to provisions herein regarding changes to the Guaranteed Project Cost. Except as otherwise indicated herein, Developer shall provide and pay for all labor, materials, equipment, permits, fees, licenses, facilities, transportation, taxes, and services necessary for the proper execution and Project Completion..

6.1. Status of Developer

6.1.1. Developer is and shall at all times be deemed to be an independent contractor and shall be wholly responsible for the manner in which it and its Subcontractors perform the services required of it by the Contract Documents. Nothing herein contained shall be construed as creating the relationship of employer and employee, or principal and agent, between the District, or any of the District's employees or agents, and Developer or any of Developer's Subcontractors, agents or employees. Developer assumes exclusively the responsibility for the acts of its employees as they relate to the services to be provided during the course and scope of their employment. Developer, its Subcontractors, agents, and its employees shall not be entitled to any rights or privileges of District employees. District shall be permitted to monitor the Developer's activities to determine compliance with the terms of this Contract.

6.1.2. As required by law, Developer and all Subcontractors shall be properly licensed and regulated by the Contractors State License Board, 3132 Bradshaw Road, Post Office Box 2600, Sacramento, California 98826, <http://www.cslb.ca.gov>.

6.2. Developer's Supervision

6.2.1. During progress of the Work, Developer shall keep on the Premises, and at all other appropriate locations where any Work related to the Contract is being performed, minimum staffing as indicated in **Exhibit K** to the Facilities Lease. These persons shall each comply with the following:

6.2.1.1. Each shall be an employee of the Developer, to whom the District does not object.

6.2.1.2. Each shall speak fluently English, written and verbal, and the predominant language of the Developer's employees.

6.2.2. Before commencing the Work herein, Developer shall give written notice to District of the name of its project manager and construction superintendent. Neither the Developer's project manager nor construction superintendent shall be changed except with prior written notice to District, unless the Developer's project manager and/or construction superintendent proves to be unsatisfactory to Developer, District, any of the District's employees, agents, the Construction Manager, or the Architect, in which case, Developer shall notify District in writing or if such project manager or construction superintendent are no longer employed by Developer. The Developer's project manager and construction superintendent shall each represent Developer, and all directions given to Developer's project manager and/or construction superintendent shall be as binding as if given to Developer.

6.2.3. Developer shall give efficient supervision to Work, using its best skill and attention. Developer shall carefully study and compare all Contract Documents, Drawings, Specifications, and other instructions and shall at once report to District, Construction Manager, and Architect any error, inconsistency, or omission that Developer or its employees and Subcontractors may discover, in writing, with a copy to District's Project Inspector(s).

6.2.4. The Developer's project manager shall devote sufficient time to the Project on site, and in the Developer's home office to pre-plan activities to meet the Project schedule and fulfill all Contract obligations. This includes making timely submittals, issuing and disseminating necessary RFI's, promptly processing and distributing bulletins, change orders and payments, keeping required logs current etc. If any of these activities fall behind contract requirements or dates necessary to complete the Project on time, the Developer must provide a full time project manager on site dedicated solely to the Project, until the deficiencies are corrected.

6.2.5. The Developer shall verify all indicated dimensions before ordering materials or equipment, or before performing work. The Developer shall take field measurements, verify field conditions, and shall carefully compare such field measurements and conditions and other information known to the Developer with the Project Documents before commencing work. Errors, inconsistencies or omissions discovered shall be reported to the District at once. Upon commencement of any item of work, the Developer shall be responsible for dimensions related to such item of work and shall make any corrections necessary to make work properly fit at no additional cost to District. This responsibility for verification of dimensions is a non-delegable duty and may not be delegated to subcontractors or agents.

6.2.6. Omissions from the plans, drawings or specifications, or the misdescription of details of work which are manifestly necessary to carry out the intent of the plans, drawings and specifications, or which are customarily performed, shall not relieve the Developer from performing such omitted or misdescribed work, but they shall be performed as if fully and correctly set forth and described in the plans, drawings and specifications.

6.2.7. The Developer shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction. The Developer shall be responsible to see that the finished work complies accurately with the Contract Documents.

6.3. Duty to Provide Fit Workers

6.3.1. Developer and Subcontractor(s) shall at all times enforce strict discipline and good order among their employees and shall not employ or work any unfit person or anyone not skilled in work assigned to that person. It shall be the responsibility of Developer to ensure compliance with this requirement. District may require Developer to permanently remove unfit persons from Project Site.

6.3.2. Any person in the employ of Developer or Subcontractor(s) whom District may deem incompetent or unfit shall be excluded from working on the Project and shall not again be employed on the Project except with the prior written consent of District.

6.3.3. The Developer shall furnish labor that can work in harmony with all other elements of labor employed or to be employed in the Work.

6.3.4. If Developer intends to make any change in the name or legal nature of the Developer's entity, Developer must first notify the District. The District shall determine if Developer's intended change is permissible while performing this Contract.

6.4. Personnel

6.4.1. All persons working for Developer and Subcontractor(s) shall refrain from using profane or vulgar language, or any other language that is inappropriate on the job site.

6.4.2. The Developer shall employ a full-time superintendent and necessary assistants who shall have complete authority to represent and act on behalf on the Developer on all matters pertaining to the Work. The superintendent shall be competent and have a minimum of five (5) years experience in construction supervision on projects of similar scale and complexity. The superintendent shall be satisfactory to the District and, if not satisfactory, shall be replaced by the Developer with one that is acceptable. The superintendent shall not be changed without the written consent of the District unless the superintendent ceases to be employed by the Developer.

6.4.3. The Developer shall employ a competent estimator and necessary assistants, or contract for sufficient services of an estimating consultant and to process proposed change orders. The estimator shall have a minimum of five (5) years experience in estimating. The estimator shall be satisfactory to the District and, if not satisfactory, shall be replaced by the Developer with one that is acceptable. The estimator shall not be changed without the written consent of the District unless the estimator ceases to be employed by the Developer. The Developer shall submit PCO's requested by the District within fourteen (14) calendar days.

6.4.4. The Developer shall employ a competent scheduler and necessary assistants, or contract for sufficient services of a scheduling consultant. The scheduler shall have a minimum of five (5) years experience in scheduling. The scheduler shall be satisfactory to the District and, if not satisfactory, shall be replaced by the Developer with one that is acceptable. The scheduler shall not be changed without the written consent of the District unless the scheduler ceases to be employed by the Developer.

6.4.5. Developer shall at all times enforce strict discipline and good order among Developer's employees, and shall not employ on the Project any unfit person or anyone not skilled in the task assigned.

6.4.6. If Developer or any Subcontractor on the Project site fails to comply with any provision of paragraph 6.4, the District may have the offending person(s) immediately removed from the site, and such person(s) shall be replaced within three (3) days, at no additional expense to the District. Developer,

on behalf of it and its subcontractors, hereby waives any claim that the provisions of this paragraph or the enforcement thereof interferes, or has the potential to interfere, with its right to control the means and methods of its performance and duties under this Contract.

6.5. Purchase of Materials and Equipment

The Developer is required to order, obtain, and store materials and equipment sufficiently in advance of its Work at no additional cost or advance payment from District to assure that there will be no delays.

6.6. Documents on Work

6.6.1. Developer shall at all times keep on the Work Site, or at another location as the District may authorize in writing, one legible copy of all Contract Documents, including Addenda and Change Orders, and titles 19 and 24 of the California Code of Regulations, the specified edition(s) of the Uniform Building Code, all approved Drawings, Plans, Schedules, and Specifications, and all codes referred to in the Specifications, and made part thereof. These documents shall be kept in good order and available to District, Construction Manager, Architect, Architect's representatives, the Project Inspector(s), and all authorities having jurisdiction. Developer shall be acquainted with and comply with the provisions of these titles as they relate to this Project. (See particularly the duties of Developer, title 24, part 1, California Code of Regulations, § 4-343.) Developer shall also be acquainted with and comply with all California Code of Regulations provisions relating to conditions on this Project, particularly titles 8 and 17. Developer shall coordinate with Architect and Construction Manager and shall submit its verified report(s) according to the requirements of title 24.

6.6.2. Daily Job Reports.

6.6.2.1. Developer shall maintain, at a minimum, at least one (1) set of Daily Job Reports on the Project. These must be prepared by the Developer's employee(s) who are present on Site, and must include, at a minimum, the following information:

- 6.6.2.1.1.** A brief description of all Work performed on that day.
- 6.6.2.1.2.** A summary of all other pertinent events and/or occurrences on that day.
- 6.6.2.1.3.** The weather conditions on that day.
- 6.6.2.1.4.** A list of all Subcontractor(s) working on that day,
- 6.6.2.1.5.** A list of each Developer employee working on that day and the total hours worked for each employee.
- 6.6.2.1.6.** A complete list of all major equipment on Site that day, whether in use or not.
- 6.6.2.1.7.** All complete list of all materials, supplies, and equipment delivered on that day.
- 6.6.2.1.8.** A complete list of all inspections and tests performed on that day.

6.6.2.2. Each day Developer shall provide a copy of the previous day's Daily Job Report to the District or the District's Construction Manager.

6.7. Preservation of Records

The District shall have the right to examine and audit all Daily Job Reports or other Project records of Developer's project manager(s), project superintendent(s), and/or project foreperson(s), all certified payroll records and/or related documents including, without limitation, payroll, payment, timekeeping and tracking documents; all books, estimates, records, contracts, documents, cost data, subcontract job cost reports, and other data of the Developer, any Subcontractor, and/or supplier, including computations and projections related to estimating, negotiating, pricing, or performing the Work or Contract modification, in order to evaluate the accuracy, completeness, and currency of the cost, manpower,

coordination, supervision, or pricing data at no additional cost to the District. These documents may be duplicative and/or be in addition to any documents held in escrow by the District. The Developer shall make available at all reasonable times the materials described in this paragraph for the examination, audit, or reproduction until three (3) years after final payment under this Contract. Notwithstanding the provisions above, Developer shall provide any records requested by any governmental agency, if available, after the time set forth above.

6.8. Integration of Work

6.8.1. Developer shall do all cutting, fitting, patching, and preparation of Work as required to make its several parts come together properly, to fit it to receive or be received by work of other contractors, and to coordinate tolerances to various pieces of work, showing upon, or reasonably implied by, the Drawings and Specifications for the completed structure, and shall conform them as District and/or Architect may direct.

6.8.2. All cost caused by defective or ill-timed Work shall be borne by Developer, inclusive of repair work.

6.8.3. Developer shall not endanger any work performed by it or anyone else by cutting, excavating, or otherwise altering work and shall not cut or alter work of any other contractor except with consent of District.

6.9. Obtaining Licenses

Except for DSA fees or charges, Developer shall secure and pay for all of its required licenses, and certificates necessary for prosecution of Work before the date of the commencement of the Work or before the licenses, and certificates are legally required to continue the Work without interruption. The Developer shall obtain and pay, only when legally required, for all licenses and certificates required to be obtained from or issued by any authority having jurisdiction over any part of the Work included in the Contract. All final permits and certificates shall be delivered to District before demand is made for final payment.

6.10. Work to Comply With Applicable Laws and Regulations

6.10.1. Developer shall give all notices and comply with the following specific laws, ordinances, rules, and regulations and all other applicable laws, ordinances, rules, and regulations bearing on conduct of Work as indicated and specified, including but not limited to the appropriate statutes and administrative code sections. If Developer observes that Drawings and Specifications are at variance therewith, or should Developer become aware of the development of conditions not covered by Contract Documents that will result in finished Work being at variance therewith, Developer shall promptly notify District in writing and any changes deemed necessary by District shall be made as provided in Contract for changes in Work.

- 6.10.1.1.** National Electrical Safety Code, U. S. Department of Commerce
- 6.10.1.2.** National Board of Fire Underwriters' Regulations
- 6.10.1.3.** Uniform Building Code, latest addition, and the California Code of Regulations, title 24, including amendments
- 6.10.1.4.** Manual of Accident Prevention in Construction, latest edition, published by A.G.C. of America
- 6.10.1.5.** Industrial Accident Commission's Safety Orders, State of California
- 6.10.1.6.** Regulations of the State Fire Marshall (title 19, California Code of Regulations) and Pertinent Local Fire Safety Codes

- 6.10.1.7.** Americans with Disabilities Act
- 6.10.1.8.** Education Code of the State of California
- 6.10.1.9.** Government Code of the State of California
- 6.10.1.10.** Labor Code of the State of California, division 2, part 7, Public Works and Public Agencies
- 6.10.1.11.** Public Contract Code of the State of California
- 6.10.1.12.** California Art Preservation Act
- 6.10.1.13.** U. S. Copyright Act
- 6.10.1.14.** U. S. Visual Artists Rights Act

6.10.2. Developer shall comply with all applicable mitigation measures, if any, adopted by any public agency with respect to this Project pursuant to the California Environmental Quality Act (Public Resources Code section 21000 et seq.)

6.10.3. If Developer performs any Work that it knew, or through exercise of reasonable care should have known, to be contrary to any applicable laws, ordinance, rules, or regulations, Developer shall bear all costs arising therefrom.

6.10.4. Where Specifications or Drawings state that materials, processes, or procedures must be approved by the DSA, State Fire Marshall, or other body or agency, Developer shall be responsible for satisfying requirements of such bodies or agencies.

6.11. Safety/Protection of Persons and Property

6.11.1. The Developer will be solely and completely responsible for conditions of the Work Site, including safety of all persons and property during performance of the Work. This requirement will apply continuously and not be limited to normal working hours.

6.11.2. The wearing of hard hats will be mandatory at all times for all personnel on Site. Developer shall supply sufficient hard hats to properly equip all employees and visitors.

6.11.3. Any construction review of the Developer's performance is not intended to include review of the adequacy of the Developer's safety measures in, on, or near the Work Site.

6.11.4. Implementation and maintenance of safety programs shall be the sole responsibility of the Developer.

6.11.5. The Developer shall furnish to the District a copy of the Developer's safety plan within the time frame indicated in the Contract Documents and specifically adapted for the Project.

6.11.6. Developer shall be responsible for all damages to persons or property that occur as a result of its fault or negligence in connection with the prosecution of this Contract and shall take all necessary measures and be responsible for the proper care, Project Completion and final acceptance by District. Developer shall not be responsible for damage to the Work caused by "acts of God" as defined in Public Contract Code section 7105.

6.11.7. Developer shall take, and require Subcontractors to take, all necessary precautions for safety of workers on the Project and shall comply with all applicable federal, state, local, and other safety laws, standards, orders, rules, regulations, and building codes to prevent accidents or injury to persons on, about, or adjacent to premises where Work is being performed and to provide a safe and healthful place of employment. Developer shall furnish, erect, and properly maintain at all times, all necessary safety devices, safeguards, construction canopies, signs, nets, barriers, lights, and watchmen for protection of

workers and the public and shall post danger signs warning against hazards created by such features in the course of construction.

6.11.8. Hazards Control – Developer shall store volatile wastes in covered metal containers and remove them from the Site regularly, which shall be daily when appropriate for the type of hazardous wastes to be removed. Developer shall prevent accumulation of wastes that create hazardous conditions. Developer shall provide adequate ventilation during use of volatile or noxious substances.

6.11.9. Developer shall designate a responsible member of its organization on the Project, whose duty shall be to post information regarding protection and obligations of workers and other notices required under occupational safety and health laws, to comply with reporting and other occupational safety requirements, and to protect the life, safety, and health of workers. Name and position of person so designated shall be reported to District by Developer.

6.11.10. Developer shall correct any violations of safety laws, rules, orders, standards, or regulations. Upon the issuance of a citation or notice of violation by the Division of Occupational Safety and Health, Developer shall correct such violation promptly.

6.11.11. Storm Water Permits. Developer shall comply with any District storm water requirements that are approved by the District and applicable to the Project, at no additional cost to the District.

6.11.11.1. Developer shall perform the Work of the Project related to being the District’s Qualified SWPPP (Storm Water Pollution Prevention Plan) Practitioner (“QSP”).

6.11.11.2. As the District’s QSP, Developer shall be responsible for storm water and non-storm water visual observations, sampling, and analysis per the District’s SWPPP.

6.11.11.3. Developer shall strictly follow the requirements to implement all the provisions of the SWPPP including, without limitation, preparation of monitoring and recording reports and providing those to the District.

6.11.11.4. Developer’s indemnity obligations as indicated in the Facilities Lease are applicable to any damages, penalties, fees, charges, or related expenses assessed or charged to the District by any water boards or agencies with jurisdiction related to compliance with the Storm Water Permits.

6.11.12. In an emergency affecting safety of life or of work or of adjoining property, Developer, without special instruction or authorization, shall act, at its discretion, to prevent such threatened loss or injury. Any compensation claimed by Developer on account of emergency work shall be determined by agreement.

6.11.13. All salvage materials will become the property of the Developer and shall be removed from the Site unless otherwise called for in the Contract Documents. However, the District reserves the right to designate certain items of value that shall be turned over to the District unless otherwise directed by District.

6.11.14. All connections to public utilities and/or existing on-site services shall be made and maintained in such a manner as to not interfere with the continuing use of same by the District during the entire progress of the Work.

6.11.15. Developer shall provide such heat, covering, and enclosures as are necessary to protect all Work, materials, equipment, appliances, and tools against damage by weather conditions, such as extreme heat, cold, rain, snow, dry winds, flooding, or dampness.

6.11.16. The Developer shall protect and preserve the Work from all damage or accident, providing any temporary roofs, window and door coverings, boxing, or other construction as required by the Architect. The Developer shall be responsible for existing structures, walks, roads, trees, landscaping, and/or improvements in working areas; and shall provide adequate protection therefore. If temporary removal is necessary of any of the above items, or damage occurs due to the Work, the Developer shall replace same at his expense with same kind, quality, and size of Work or item damaged. This shall include any adjoining property of the District and others.

6.11.17. Developer shall take adequate precautions to protect existing roads, sidewalks, curbs, pavements, utilities, adjoining property, and structures (including, without limitation, protection from settlement or loss of lateral support), and to avoid damage thereto, and repair any damage thereto caused by construction operations of the Developer.

6.11.18. Developer shall confine apparatus, the storage of materials, and the operations of workers to limits indicated by law, ordinances, permits, or directions of District, Construction Manager or Architect, and shall not interfere with the Work or unreasonably encumber Premises or overload any structure with materials. Developer shall enforce all instructions of District and Architect regarding signs, advertising, fires, and smoking, and require that all workers comply with all regulations while on Project Site.

6.11.19. Developer, Developer's employees, Subcontractors, Subcontractors' employees, or any person associated with the Work shall conduct themselves in a manner appropriate for a school site. No verbal or physical contact with neighbors, students, and faculty, profanity, or inappropriate attire or behavior will be permitted. District may require Developer to permanently remove non-complying persons from Project Site.

6.11.20. Developer shall take care to prevent disturbing or covering any survey markers, monuments, or other devices marking property boundaries or corners. If such markers are disturbed, Developer shall have a civil engineer, registered as a professional engineer in California, replace them at no cost to District.

6.11.21. In the event that the Developer enters into any agreement with owners of any adjacent property to enter upon the adjacent property for the purpose of performing the Work, Developer shall fully indemnify, defend, and hold harmless each person, entity, firm, or agency that owns or has any interest in adjacent property. The form and content of the agreement of indemnification shall be approved by the District prior to the commencement of any Work on or about the adjacent property. The Developer shall also indemnify the District as provided in the indemnification provision herein. These provisions shall be in addition to any other requirements of the owners of the adjacent property.

6.12. Working Evenings and Weekends

Developer may be required to work evenings and/or weekends at no additional cost to the District. Developer shall give the District seventy-two (72) hours notice prior to performing any evening and/or weekend work. Developer shall perform all evening and/or weekend work only upon District's approval and in compliance with all applicable rules, regulations, laws, and local ordinances including, without limitation, all noise and light limitations. Developer shall reimburse the District for any Inspector charges necessitated by the Developer's evening, weekend and/or legal holiday work, unless the District has agreed to be responsible for such costs at the District's expense in advance of the evening and/or weekend work.

6.13. Cleaning Up

6.13.1. The Developer shall provide all services, labor, materials, and equipment necessary for protecting the Work, all school occupants, furnishings, equipment, and building structure from damage until Project Completion and final acceptance by District. Dust barriers shall be provided to isolate dust and dirt from construction operations. Upon Project Completion, Developer shall clean to the original state any areas beyond the Work area that become dust laden as a result of the Work. The Developer must erect the necessary warning signs and barricades to ensure the safety of all school occupants. The Developer at all times must maintain good housekeeping practices to reduce the risk of fire damage and must make a fire extinguisher, fire blanket, and/or fire watch, as applicable, available at each location where cutting, braising, soldering, and/or welding is being performed or where there is an increased risk of fire.

6.13.2. Developer at all times shall keep Premises free from debris such as waste, rubbish, and excess materials and equipment caused by the Work. Developer shall not leave debris under, in, or about the Premises, but shall promptly remove same from the Premises on a daily basis. If Developer fails to clean up, District may do so and the cost thereof shall be charged to Developer. If Contract is for work on an existing facility, Developer shall also perform specific clean-up on or about the Premises upon request by the District as it deems necessary for the continuing education process. Developer shall comply with all related provisions of the Specifications.

6.13.3. If the Construction Manager, Architect, or District observes the accumulation of trash and debris, the District will give the Developer a 24-hour written notice to mitigate the condition.

6.13.4. Should the Developer fail to perform the required clean-up, or should the clean-up be deemed unsatisfactory by the District, the District will then perform the clean-up. All cost associated with the clean-up work (including all travel, payroll burden, and costs for supervision) will be deducted from the Guaranteed Project Cost, or District may withhold those amounts from payment(s) to Developer.

7. SUBCONTRACTORS

7.1. Developer shall provide the District with information for all of Developer's Subcontracts and Subcontractors.

7.2. No contractual relationship exists between the District and any Subcontractor, supplier, or sub-subcontractor by reason of this Contract.

7.3. Bidding for Subcontractor Work

7.3.1. Developer is required to receive at least five (5) bona fide bids from Subcontractors for all scopes of work on the Project that constitute more than three percent (3%) of the total Project scope. Prior to the Developer seeking bids, the District and Developer may negotiate a different minimum number of bona fide bids from Subcontractors, which shall be as indicated in **Exhibit K** to the Facilities Lease.

7.3.2. Developer shall provide all bids received from all Subcontractors to the District and shall justify, to the District's satisfaction, if Developer does not choose the lowest bidding Subcontractor for a specific scope of work.

7.3.3. Developer must seek District's prior approval if it wishes to provide fewer than the minimum number of bona fide bids from Subcontractors

7.4. Developer agrees to bind every Subcontractor by terms of Contract as far as those terms are applicable to Subcontractor's work including, without limitation, all provisions and requirements of the District's Labor Compliance Program ("LCP"), if an LCP is in force on this Project. If Developer shall subcontract any part of this Contract, Developer shall be as fully responsible to District for acts and omissions of any Subcontractor

and of persons either directly or indirectly employed by any Subcontractor, as it is for acts and omissions of persons directly employed by Developer. The divisions or sections of the Specifications are not intended to control the Developer in dividing the Work among Subcontractors or limit the work performed by any trade.

7.5. District's consent to, or approval of, or failure to object to, any Subcontractor under this Contract shall not in any way relieve Developer of any obligations under this Contract and no such consent shall be deemed to waive any provisions of this Contract.

7.6. Developer is directed to familiarize itself with sections 1720 through 1861 of the Labor Code of the State of California, as regards the payment of prevailing wages and related issues, and to comply with all applicable requirements therein all including, without limitation, section 1775 and the Developer's and Subcontractors' obligations and liability for violations of prevailing wage law and other applicable laws.

7.7. The Developer shall be responsible for the coordination of the trades, Subcontractors, sub-subcontractors, and material or equipment suppliers working on the Project.

7.8. Developer is solely responsible for settling any differences between the Developer and its Subcontractor(s) or between Subcontractors.

7.9. Developer must include in all of its subcontracts the assignment provisions as indicated in the Termination section of these General Construction Provisions.

8. OTHER CONTRACTS/CONTRACTORS

8.1. District reserves the right to let other contracts, and/or to perform work with its own forces, in connection with the Project. Developer shall afford other contractors reasonable opportunity for introduction and storage of their materials and execution of their work and shall properly coordinate and connect Developer's Work with the work of other contractors.

8.2. In addition to Developer's obligation to protect its own Work, Developer shall protect the work of any other contractor that Developer encounters while working on the Project.

8.3. If any part of Developer's Work depends for proper execution or results upon work of District or any other contractor, the Developer shall inspect and promptly report to the District in writing before proceeding with its Work any defects in District's or any other contractor's work that render Developer's Work unsuitable for proper execution and results. Developer shall be held accountable for damages to District for District's or any other contractor's work that Developer failed to inspect or should have inspected. Developer's failure to inspect and report shall constitute Developer's acceptance of all District's or any other contractor's work as fit and proper for reception of Developer's Work, except as to defects that may develop in District's or any other contractor's work after execution of Developer's Work.

8.4. To ensure proper execution of its subsequent work, Developer shall measure and inspect work already in place and shall at once report to the District in writing any discrepancy between that executed work and the Contract Documents.

8.5. Developer shall ascertain to its own satisfaction the scope of the Project and nature of District's or any other contracts that have been or may be awarded by District in prosecution of the Project to the end that Developer may perform this Contract in light of the other contracts, if any.

8.6. Nothing herein contained shall be interpreted as granting to Developer exclusive occupancy of the Site, the Premises, or of the Project. Developer shall not cause any unnecessary hindrance or delay to the use and/or school operation(s) of the Premises and/or to District or any other contractor working on the Project.

If simultaneous execution of any contract or school operation is likely to cause interference with performance of Developer's Contract, Developer shall coordinate with those contractor(s), person(s), and/or entity(s) and shall notify the District of the resolution.

9. DRAWINGS AND SPECIFICATIONS

9.1. A complete list of all Drawings for the Project is to be found as an index on the Drawings themselves, and/or may be provided to the Developer and/or in the Table of Contents.

9.2. Materials or Work described in words that so applied have a well known technical or trade meaning shall be deemed to refer to recognized standards, unless noted otherwise.

9.3. Trade Name or Trade Term. It is not the intention of this Contract to go into detailed descriptions of any materials and/or methods commonly known to the trade under "trade name" or "trade term." The mere mention or notation of "trade name" or "trade term" shall be considered a sufficient notice to Developer that it will be required to complete the work so named, complete, finished, and operable, with all its appurtenances, according to the best practices of the trade.

9.4. The naming of any material and/or equipment shall mean furnishing and installing of same, including all incidental and accessory items thereto and/or labor therefor, as per best practices of the trade(s) involved, unless specifically noted otherwise.

9.5. Contract Documents are complementary, and what is called for by one shall be binding as if called for by all. As such, Drawings and Specifications are intended to be fully cooperative and to agree. However, if Developer observes that Drawings and Specifications are in conflict, Developer shall promptly notify District and Architect in writing, and any necessary changes shall be made as provided in the Contract Documents.

9.6. Should any question arise concerning the intent or meaning of the Contract Documents, including the Plans and Specifications, the question shall be submitted to the District for interpretation. If a conflict exists in the Contract Documents, these General Construction Provisions shall control over the Master Facilities Lease, which shall control over the Master Site Lease, which shall control over Division 1 Documents, which shall control over Division 2 through Division 49 documents, which shall control over figured dimensions, which shall control over large-scale drawings, which shall control over small-scale drawings. In no case shall a document calling for lower quality and/or quantity material or workmanship control. However, in the case of discrepancy or ambiguity solely between and among the Drawings and Specifications, the discrepancy or ambiguity shall be resolved in favor of the interpretation that will provide District with the functionally complete and operable Project described in the Drawings and Specifications. In case of ambiguity, conflict, or lack of information, District will furnish clarifications with reasonable promptness.

9.7. Drawings and Specifications are intended to comply with all laws, ordinances, rules, and regulations of constituted authorities having jurisdiction, and where referred to in the Contract Documents, the laws, ordinances, rules, and regulations shall be considered as a part of the Contract within the limits specified. Developer shall bear all expense of correcting work done contrary to said laws, ordinances, rules, and regulations and for which the Developer knew or reasonably should have known did not comply with those laws, ordinances, rules, and regulations.

9.8. Ownership of Drawings

All copies of Plans, Drawings, Designs, Specifications, and copies of other incidental architectural and engineering work, or copies of other Contract Documents furnished by District, are the property of District. They are not to be used by Developer in other work and, with the exception of signed sets of Contract Documents, are to be returned to District on request at completion of Work, or may be used by

District as it may require without any additional costs to District. Neither the Developer nor any Subcontractor, or material or equipment supplier shall own or claim a copyright in the Drawings, Specifications, and other documents prepared by the Architect. District hereby grants the Developer, Subcontractors, sub-subcontractors, and material or equipment suppliers a limited license to use applicable portions of the Drawings prepared for the Project in the execution of their Work under the Contract Documents.

10. DEVELOPER'S SUBMITTALS AND SCHEDULES

10.1. Construction Schedule

The Developer shall prepare a Construction Schedule that complies with the construction schedule attached to the Facilities Lease as **Exhibit F** ("Construction Schedule") and shall provide all schedules and construction progress documentation as required in the Contract Documents. All items on the Schedule of Values must have a specific completion date on the Construction Schedule, or District has approved the Construction Schedule and the Construction Schedule is loaded and detailed as required by the Contract Documents.

10.2. Schedule of Values

The Developer has provided and the District has approved a schedule of values for all of the Work, which includes quantities and prices of items aggregating the Guaranteed Project Cost and subdivided into component parts. This schedule of values includes, at a minimum, the following information and the following structure:

10.2.1.1. Divided into at least the following categories:

- 10.2.1.1.1.** Overhead and profit;
- 10.2.1.1.2.** Supervision;
- 10.2.1.1.3.** General conditions;
- 10.2.1.1.4.** Layout;
- 10.2.1.1.5.** Mobilization;
- 10.2.1.1.6.** Submittals;
- 10.2.1.1.7.** Bonds and insurance;
- 10.2.1.1.8.** Closeout documentation;
- 10.2.1.1.9.** Demolition;
- 10.2.1.1.10.** Installation;
- 10.2.1.1.11.** Rough-in;
- 10.2.1.1.12.** Finishes;
- 10.2.1.1.13.** Testing;
- 10.2.1.1.14.** Punch list and acceptance.

10.2.1.2. Divided by each of the following areas:

- 10.2.1.2.1.** Site work;
- 10.2.1.2.2.** By each building;
- 10.2.1.2.3.** By each floor.
- 10.2.1.2.4.** By division of work.

10.2.1.3. The schedule of values shall not provide for values any greater than the following percentages of the Guaranteed Project Cost:

- 10.2.1.3.1. Mobilization and layout combined to equal not more than 1%;
- 10.2.1.3.2. Submittals, samples and shop drawings combined to equal not more than 2%;
- 10.2.1.3.3. Bonds and insurance combined to equal not more than 3%.
- 10.2.1.3.4. Punch list and acceptance value shall not be no less than 1%.
- 10.2.1.3.5. No Schedule of Value (except noted above) shall be greater than 1%.

10.2.1.4. Closeout Documentation shall have a value in the schedule of values of not less than 2%.

10.2.1.5. The Schedule Of Values shall not be modified or amended by the Developer without the prior consent and approval of the District, which may be granted or withheld in the sole discretion of the District.

10.3. Safety Plan. Developer’s Safety Plan specifically adapted for the Project. Developer's Safety Plan shall comply with the following requirements and shall be submitted to the District for information purposes only:

10.3.1. All applicable requirements of California Division of Industrial Safety (“CalOSHA”) and/or of the United States Occupational Safety and Health Administration (“OSHA”).

10.3.2. All provisions regarding Project safety, including all applicable provisions in these General Construction Provisions.

10.3.3. Developer’s Safety Plan shall be in English and in the language(s) of the Developer’s and its Subcontractors’ employees.

10.4. Complete Subcontractor List. The name, address, telephone number, facsimile number, California State Developers License number, classification, and monetary value of all Subcontracts for parties furnishing labor, material, or equipment for Project Completion, plus all information required in the Contract Documents. This includes the subcontractor Bid and fully executed Contract.

10.5. Developer must provide all schedules both in hard copy and electronically, in a format (e.g., Microsoft Project or Primavera) approved in advance by the District.

10.6. The District will review the schedules submitted and the Developer shall make changes and corrections in the schedules as requested by the District and resubmit the schedules until approved by the District.

10.7. The District shall have the right at any time to revise the schedule of values if, in the District's sole opinion, the schedule of values does not accurately reflect the value of the Work performed.

10.8. Monthly Progress Schedule(s)

10.8.1. Developer shall provide Monthly Progress Schedule(s) to the District. A Monthly Progress Schedule shall update the approved Construction Schedule or the last Monthly Progress Schedule, showing all work completed and to be completed. The monthly Progress Schedule shall be in a format acceptable to the District and contain a written narrative of the progress of work that month and any changes, delays, or events that may affect the work. The process for District approval of the Monthly Progress Schedule shall be the same as the process for approval of the Construction Schedule.

10.8.2. Developer shall also submit Monthly Progress Schedule(s) with all payment applications.

10.9. Material Safety Data Sheets (MSDS)

Developer is required to ensure Material Safety Data Sheets are available in a readily accessible place at the Work Site for any material requiring a Material Safety Data Sheet per the Federal "Hazard Communication" standard, or employees right to know law. The Developer is also required to ensure proper labeling on substance brought onto the job site and that any person working with the material or within the general area of the material is informed of the hazards of the substance and follows proper handling and protection procedures. Two additional copies of the Material Safety Data Sheets shall also be submitted directly to the District.

10.10. Logistics Plan. _Developer shall provide a staging and logistics plan identifying laydown areas, loading and unloading areas, crane locations, fence locations, temporary utility connections, trailer locations, and emergency evacuation meeting area. This Logistics Plan must be approved by the District prior to the Developer mobilizing on the Site

11. SITE ACCESS, CONDITIONS, AND REQUIREMENTS

11.1. Site Investigation

Developer has made a careful investigation of the Sites and is familiar with the requirements of the Contract and has accepted the known existing conditions of the Sites.

11.2. Soils Investigation Report & Site Due Diligence

11.2.1. When a soils investigation report obtained from test holes at Site is available, that report shall be available to the Developer but shall not be a part of this Contract. Any information obtained from that report or any information given on Drawings as to subsurface soil condition or to elevations of existing grades or elevations of underlying rock is approximate only, is not guaranteed, does not form a part of this Contract. Developer may reasonably rely thereon, however the Districts makes no warranty regarding the completeness or accuracy of any such report or other information regarding subsurface conditions. Developer acknowledges that it has made visual examination of Site and has made whatever tests Developer deems appropriate to determine underground condition of soil.

11.2.2. If Developer encounters subsurface or latent conditions at Site materially differing from those shown on Drawings or indicated in Specifications, or for unknown conditions of an unusual nature that differ materially from those ordinarily encountered in the Work of the character provided for in the Contract Documents, Developer shall give notice to the District immediately before conditions are disturbed and in no event later than ten (10) days after first observance of the conditions.

11.2.2.1. The District will promptly investigate such conditions and, if they differ materially and cause an increase or decrease in Developer's cost of, or time required for, performance of any part of the Work, will equitably adjustment the Contract Sum or Contract Time, or both.

11.2.2.2. If the District determines that the conditions at the site are not materially different from those indicated in the Contract Documents and that no change in the terms of the Contract is justified, the District will notify Developer in writing, stating the reasons.

11.2.2.3. If after receiving the response, Developer still intends to pursue a Claim, it shall provide written notice within ten (10) days after it has received the decision.

11.2.2.4. Conditions will not be qualified as concealed or unknown if they were readily visible or reasonably observable.

11.2.3. Developer's 's Diligence. Developer's agreement to the Contract Price confirms that it has made a careful examination of the Contract Documents, that it has a complete understanding of the nature, extent, and location of Work to be performed and that it expressly represents that it has fully completed the following:

11.2.3.1. Developer has visited the Project Site, if required, and has examined thoroughly and understood the nature and extent of the Contract Documents, Work, Site, locality, actual conditions, as-built conditions, and all local conditions and federal, state and local laws, and regulations that in any manner may affect cost, progress, performance, or furnishing of Work or that relate to any aspect of the means, methods, techniques, sequences, or procedures of construction to be employed by Developer and safety precautions and programs incident thereto;

11.2.3.2. Developer has conducted or obtained and has understood all examinations, investigations, explorations, tests, reports, and studies that pertain to the subsurface conditions, as-built conditions, underground facilities, and all other physical conditions at or contiguous to the Site or otherwise that may affect the cost, progress, performance, or furnishing of Work, as Developer considers necessary for the performance or furnishing of Work at the Guaranteed Project Cost, within the Contract Time, and in accordance with the other terms and conditions of Contract Documents, including specifically the provisions of the General Construction Provisions; and no additional examinations, investigations, explorations, tests, reports, studies, or similar information or data are or will be required by Developer for such purposes;

11.2.3.3. Developer has correlated its knowledge and the results of all such observations, examinations, investigations, explorations, tests, reports, and studies with the terms and conditions of the Contract Documents;

11.2.3.4. Developer has given the District prompt written notice of all conflicts, errors, ambiguities, or discrepancies that it has discovered in or among the Contract Documents and the actual conditions, and the written resolution thereof by the District is acceptable to Developer;

11.2.3.5. Developer has made a complete disclosure in writing to the District of all facts bearing upon any possible interest, direct or indirect, that Developer believes any representative of the District or other officer or employee of the District presently has or will have in this Contract or in the performance thereof or in any portion of the profits thereof;

11.2.3.6. Developer is charged with all information and knowledge that a reasonable contractor would ascertain from having performed this required work, investigation, research, and analysis. the Guaranteed Project Cost includes entire cost of all work "incidental" to completion of the Work.

11.2.3.7. Conditions Shown on the Contract Documents: Information as to underground conditions, as-built conditions, or other conditions or obstructions, indicated in the Contract Documents, e.g., on Drawings or in Specifications, has been obtained with reasonable care, and has been recorded in good faith. However, District only warrants, and Developer may only rely, on the accuracy of limited types of information.

11.2.3.7.1. As to above-ground conditions or as-built conditions shown or indicated in the Contract Documents, there is no warranty, express or implied, or any representation express or implied, that such information is correctly shown or indicated. This information is verifiable by independent investigation and Developer is required to make such verification. Developer shall rely on the results of its own independent investigation. Developer shall not rely on District-supplied information regarding above-ground conditions or as-built conditions.

11.2.3.7.2. As to any subsurface condition shown or indicated in the Contract Documents, Developer may rely only upon the general accuracy of actual reported depths, actual reported character of materials, actual reported soil types, actual reported water conditions, or actual obstructions shown or indicated. District is not responsible for the completeness of such information for preparing a proposal or construction; nor is District responsible in any way for any conclusions or opinions of Developer drawn from such information; nor is District responsible for subsurface conditions that are not specifically shown (for example, District is not responsible for soil conditions in areas contiguous to areas where a subsurface condition is shown).

11.2.4. Conditions Shown in Reports and Drawings Supplied for Informational Purposes: Reference is made to the document entitled Geotechnical Data (if attached), and the document entitled Existing Conditions (if attached), for identification of:

11.2.4.1. Subsurface Conditions: Those reports of explorations and tests of subsurface conditions at or contiguous to the Project Site that have been utilized by Architect in preparing the Contract Documents; and

11.2.4.2. Physical Conditions: Those drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Project Site that has been utilized by Architect in preparing the Contract Documents.

11.2.4.3. These reports and drawings are **not** Contract Documents and, except for any “technical” data regarding subsurface conditions specifically identified in Geotechnical Data and Existing Conditions, and underground facilities data, Developer may not in any manner rely on the information in these reports and drawings. Subject to the foregoing, Developer must make its own independent investigation of all conditions affecting the Work and must not rely on information provided by District.

11.3. Access to Work

District and its representatives shall at all times have access to Work wherever it is in preparation or progress, including storage and fabrication. Developer shall provide safe and proper facilities for such access so that District's representatives may perform their functions.

11.4. Layout and Field Engineering

11.4.1. All field engineering required for layout of this Work and establishing grades for earthwork operations shall be furnished by Developer at its expense. This Work shall be done by a qualified, California-registered civil engineer and/or surveyor (as appropriate) approved in writing by District and Architect.

11.4.2. The Developer shall be responsible for having ascertained pertinent local conditions such as location, accessibility, and general character of the Site and for having satisfied itself as to the conditions under which the Work is to be performed. District shall not be liable for any claim for allowances because of Developer's error or negligence in acquainting itself with the conditions at the Sites.

11.4.3. Developer shall protect and preserve established benchmarks and monuments and shall make no changes in locations without the prior written approval of District. Developer shall replace any

benchmarks or monuments that are lost or destroyed subsequent to proper notification of District and with District's approval.

11.5. Utilities & Sanitary Facilities

Developer shall provide all required utilities and sanitary facilities.

11.6. Surveys

Developer shall provide surveys done by a California-licensed civil engineer surveyor to determine locations of construction, grading, and site work as required to perform the Work.

11.7. Regional Notification Center

The Developer, except in an emergency, shall contact the appropriate regional notification center at least two (2) days prior to commencing any excavation if the excavation will be conducted in an area or in a private easement that is known, or reasonably should be known, to contain subsurface installations other than the underground facilities owned or operated by the District, and obtain an inquiry identification number from that notification center. No excavation shall be commenced and/or carried out by the Developer unless an inquiry identification number has been assigned to the Developer or any Subcontractor and the Developer has given the District the identification number. Any damages arising from Developer's failure to make appropriate notification shall be at the sole risk and expense of the Developer. Any delays caused by failure to make appropriate notification shall be at the sole risk of the Developer and shall not be considered for an extension of the Contract time.

11.8. Existing Utility Lines

11.8.1. Pursuant to Government Code section 4215, District assumes the responsibility for removal, relocation, and protection of main or trunk utility lines and facilities located on the construction Site at the time of commencement of construction under this Contract with respect to any such utility facilities that are not identified in the Plans and Specifications. Developer shall not be assessed for liquidated damages for delay in Project Completion caused by failure of District or the owner of a utility to provide for removal or relocation of such utility facilities.

11.8.2. Locations of existing utilities provided by District shall not be considered exact, but approximate within reasonable margin and shall not relieve Developer of responsibilities to exercise reasonable care nor costs of repair due to Developer's failure to do so. District shall compensate Developer for the costs of locating, repairing damage not due to the failure of Developer to exercise reasonable care, and removing or relocating such utility facilities not indicated in the Plans and Specifications with reasonable accuracy, and for equipment necessarily idle during such work.

11.8.3. No provision herein shall be construed to preclude assessment against Developer for any other delays in Project Completion. Nothing in this Article shall be deemed to require District to indicate the presence of existing service laterals, appurtenances, or other utility lines, within the exception of main or trunk utility lines. Whenever the presence of these utilities on the Site of the construction Project can be inferred from the presence of other visible facilities, such as buildings, meter junction boxes, on or adjacent to the Site of the construction.

11.8.4. If Developer, while performing Work under this Contract, discovers utility facilities not identified by District in Contract Plans and Specifications, Developer shall immediately notify the District and the utility in writing. The cost of repair for damage to above-mentioned visible facilities without prior written notification to the District shall be borne by the Developer.

11.9. Notification

Developer understands, acknowledges and agrees that the purpose for prompt notification to the District pursuant to these provisions is to allow the District to investigate the condition(s) so that the District shall have the opportunity to decide how the District desires to proceed as a result of the condition(s). Accordingly, failure of Developer to promptly notify the District in writing, pursuant to these provisions, shall constitute Developer's waiver of any claim for damages or delay incurred as a result of the condition(s).

11.10. Hazardous Materials

11.10.1. District is the generator of any hazardous materials that are on the Site and which are not brought to the Site by Developer. Developer is solely responsible for the exacerbation of Hazardous Materials. Cost of assessment, storage, and disposal of such shall be included in the Work.

11.10.2. Developer shall give written notice to District, Construction Manager, and Architect promptly, before any of the following conditions are disturbed, and in no event later than twenty-four (24) hours after first observance, of any:

11.10.2.1. Material that Developer believes may be material that is hazardous waste or hazardous material, as defined in section 25117 of the Health and Safety Code, that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law;

11.10.2.2. Other material that may present a substantial danger to persons or property exposed thereto in connection with Work at the Project Site.

11.10.3. Developer's written notice shall indicate whether the hazardous waste or material was shown or indicated in the Contract Documents to be within the scope of Work, and whether the materials were brought to the site by Developer, its Subcontractors, suppliers, or anyone else for whom Developer is responsible. As used in this section the term "hazardous materials" shall include, without limitation, asbestos, lead, Polychlorinated biphenyl (PCB), petroleum and related hydrocarbons, and radioactive material.

11.10.4. In response to Developer's written notice, the District shall investigate the identified conditions.

11.10.5. If District determines that conditions do not involve hazardous materials or that no change in terms of Contract is justified, District shall so notify Developer in writing, stating reasons. If District and Developer cannot agree on whether conditions justify an adjustment in Contract Price or Contract Time, or on the extent of any adjustment, Developer shall proceed with the Work as directed by District.

11.10.6. If after receipt of notice from District, Developer does not agree to resume Work based on a reasonable belief it is unsafe, or does not agree to resume Work under special conditions, then District may order that portion of Work connected with the hazardous condition or affected area, be deleted from the Work, or performed by others, or District may invoke its rights to terminate the Contract in whole or in part. District will determine entitlement to or the amount or extent of an adjustment, if any, in Contract Price or Contract Time as a result of deleting such portion of Work, or performing the Work by others.

11.10.7. If Developer stops Work in connection with any hazardous condition and in any area affected thereby, Developer shall immediately redeploy its workers, equipment, and materials, as necessary, to other portions of the Work to minimize delay and disruption.

11.10.8. Additional Warranties and Representations

11.10.8.1. Developer represents and warrants that it, its employees, and its subcontractors and their employees, shall at all times have the required levels of familiarity with the Project Site and the Work, training, and ability to comply fully with all applicable law and contract requirements for safe and expeditious performance of the Work, including whatever training is or may be required regarding the activities to be performed (including, but not limited to, all training required to address adequately the actual or potential dangers of Contract performance).

11.10.8.2. Developer represents and warrants that it, its employees, and its subcontractors and their employees, shall at all times have and maintain in good standing any and all certifications and licenses required by applicable federal, state, and other governmental and quasi-governmental requirements applicable to the Work.

11.10.8.3. Developer represents and warrants that it has studied carefully all requirements of the Specifications regarding procedures for demolition, hazardous waste abatement, or safety practices, specified in the Contract, and prior to submitting its bid, has either (a) verified to its satisfaction that the specified procedures are adequate and sufficient to achieve the results intended by the Contract Documents, or (b) by way of approved "or equal" request or request for clarification and written Addenda, secured changes to the specified procedures sufficient to achieve the results intended by the Contract Documents. Developer accepts the risk that any specified procedure will result in a completed Project in full compliance with the Contract Documents.

11.10.9. Monitoring and Testing

11.10.9.1. District reserves the right, in its sole discretion, to conduct air monitoring, earth monitoring, Work monitoring, and any other tests (in addition to testing required under the agreement or applicable law), to monitor Contract requirements of safe and statutorily compliant work methods and (where applicable) safe re-entry level air standards under state and federal law upon completion of the job, and compliance of the work with periodic and final inspection by public and quasi-public entities having jurisdiction.

11.10.9.2. Developer acknowledges that District has the right to perform, or cause to be performed, various activities and tests including, but not limited to, pre-abatement, during abatement, and post-abatement air monitoring, that District shall have no obligation to perform said activities and tests, and that a portion of said activities and tests may take place prior to the completion of the Work by Developer. In the event District elects to perform these activities and tests, Developer shall afford District ample access to the Site and all areas of the Work as may be necessary for the performance of these activities and tests. Developer will include the potential impact of these activities or tests by District in the Contract Price and the Scheduled Completion Date.

11.10.9.3. Notwithstanding District's rights granted by this paragraph, Developer may retain its own industrial hygiene consultant at Developer's own expense and may collect samples and perform tests including, but not limited to, pre-abatement, during abatement, and post-abatement personal air monitoring, and District reserves the right to request documentation of all such activities and tests performed by Developer relating to the Work and Developer shall provide that documentation immediately upon request, but in no event later than **THREE (3)** days upon request.

11.10.10. Compliance with Laws

11.10.10.1. Developer shall perform safe, expeditious, and orderly work in accordance with the best practices and the highest standards in the hazardous waste abatement, removal, and disposal industry, the applicable law, and the Contract Documents, including, but not limited to, all responsibilities relating to the preparation and return of waste shipment records, all requirements of the law, delivering of all requisite notices, and obtaining all necessary governmental and quasi-governmental approvals.

11.10.10.2. Developer represents that it is familiar with and shall comply with all laws applicable to the Work or completed Work including, but not limited to, all federal, state, and local laws, statutes, standards, rules, regulations, and ordinances applicable to the Work relating to:

11.10.10.2.1.The protection of the public health, welfare and environment;

11.10.10.2.2.Storage, handling, or use of asbestos, PCB, lead, petroleum based products or other hazardous materials;

11.10.10.2.3.The generation, processing, treatment, storage, transport, disposal, destruction, or other management of asbestos, PCB, lead, petroleum, or hazardous waste materials or other waste materials of any kind; and

11.10.10.2.4.The protection of environmentally sensitive areas such as wetlands and coastal areas.

11.10.11. Disposal

11.10.11.1. Developer has the sole responsibility for determining current waste storage, handling, transportation, and disposal regulations for the Project Site and for each waste disposal facility. Developer must comply fully at its sole cost and expense with these regulations and any applicable law. District may, but is not obligated to, require submittals with this information for it to review consistent with the Contract Documents.

11.10.11.2. Developer shall develop and implement a system acceptable to District to track hazardous waste from the Project Site to disposal, including appropriate "Hazardous Waste Manifests" on the EPA form, so that District may track the volume of waste deposited in each landfill and receive from each facility a certificate of receipt.

11.10.11.3. Developer shall provide District with the name and address of each waste disposal facility prior to any disposal, and District shall have the right to reject any proposed disposal facility. Developer shall not use any disposal facility to which District has objected. Developer shall document actual disposal or destruction of waste at a designated facility by completing a disposal certificate or certificate of destruction forwarding the original to District.

11.10.12. Permits

11.10.12.1. Before performing any of the Work, and at such other times as may be required by applicable law, Developer shall deliver all requisite notices and obtain the approval of all governmental and quasi-governmental authorities having jurisdiction over the Work. Developer shall submit evidence satisfactory to District that Developer and any disposal facility:

11.10.12.1.1.Have obtained all required permits, approvals, and the like in a timely manner both prior to commencement of the Work and thereafter as and when required by applicable law, and

11.10.12.1.2. Are in compliance with all such permits, approvals and the regulations.

For example, before commencing any work in connection with the Work involving asbestos-containing materials, or PCBs, or other hazardous materials subject to regulation, Developer agrees to provide the required notice of intent to renovate or demolish to the appropriate state or federal agency having jurisdiction, by certified mail, return receipt requested, or by some other method of transmittal for which a return receipt is obtained, and to send a copy of that notice to District. Developer shall not conduct any Work involving asbestos-containing materials or PCBs unless Developer has first confirmed that the appropriate agency having jurisdiction is in receipt of the required notification. All permits, licenses, and bonds that are required by governmental or quasi-governmental authorities, and all fees, deposits, tap fees, offsite easements, and asbestos and PCB disposal facilities expenses necessary for the prosecution of the Work, shall be procured and paid for by Developer. Developer shall give all notices and comply with the all applicable laws bearing on the conduct of the Work as drawn and specified. If Developer observes or reasonably should have observed that Plans and Specifications and other Contract Documents are at variance therewith, it shall be responsible for promptly notifying District in writing of such fact. If Developer performs any Work contrary to applicable laws, it shall bear all costs arising therefrom.

11.10.12.2. In the case of any permits or notices held in District's name or of necessity to be made in District's name, District shall cooperate with Developer in securing the permit or giving the notice, but the Developer shall prepare for District review and execution upon approval, all necessary applications, notices, and other materials.

11.11. No Signs

Neither the Developer nor any other person or entity shall display any signs not required by law or the Contract Documents at the Site, fences trailers, offices, or elsewhere on the Site without specific prior written approval of the District.

12. TRENCHES

12.1. Trenches Greater Than Five Feet

Pursuant to Labor Code section 6705, if the Guaranteed Project Cost exceeds \$25,000 and involves the excavation of any trench or trenches five (5) feet or more in depth, the Developer shall, in advance of excavation, promptly submit to the District and/or a registered civil or structural engineer employed by the District or Architect, a detailed plan showing the design of shoring for protection from the hazard of caving ground during the excavation of such trench or trenches.

12.2. Excavation Safety

If such plan varies from the Shoring System Standards established by the Construction Safety Orders, the plan shall be prepared by a registered civil or structural engineer, but in no case shall such plan be less effective than that required by the Construction Safety Orders. No excavation of such trench or trenches shall be commenced until said plan has been accepted by the District or by the person to whom authority to accept has been delegated by the District.

12.3. No Tort Liability of District

Pursuant to Labor Code section 6705, nothing in this Article shall impose tort liability upon the District or any of its employees.

12.4. No Excavation Without Permits

The Developer shall not commence any excavation Work until it has secured all necessary permits including the required CAL OSHA excavation/shoring permit. Any permits shall be prominently displayed on the Site prior to the commencement of any excavation.

12.5. Discovery of Hazardous Waste and/or Unusual Conditions

12.5.1. Pursuant to Public Contract Code section 7104, if the Work involves digging trenches or other excavations that extend deeper than four feet below the Surface, the Developer shall promptly, and before the following conditions are disturbed, notify the District, in writing, of any:

12.5.1.1. Material that the Developer believes may be material that is hazardous waste, as defined in section 25117 of the Health and Safety Code, that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law.

12.5.1.2. Subsurface or latent physical conditions at the Site differing from those indicated.

12.5.1.3. Unknown physical conditions at the Site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract.

12.5.2. The District shall promptly investigate the conditions, and if it finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in the Developer's cost of, or the time required for, performance of any part of the Work, shall issue a Change Order under the procedures described herein.

12.5.3. In the event that a dispute arises between District and the Developer whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in the Developer's cost of, or time required for, performance of any part of the Work, the Developer shall not be excused from any scheduled completion date provided for by the Contract, but shall proceed with all work to be performed under the Contract. The Developer shall retain any and all rights provided either by Contract or by law that pertain to the resolution of disputes and protests.

13. INSURANCE AND BONDS

13.1. Developer's Insurance. The Developer shall comply with the insurance requirements as indicated in the Facilities Lease.

13.2. Contract Security - Bonds

13.2.1. Developer shall furnish two surety bonds issued by a California admitted surety insurer as follows:

13.2.1.1. Performance Bond: A bond in an amount at least equal to one hundred percent (100%) of Contract Price as security for faithful performance of this Contract.

13.2.1.2. Payment Bond: A bond in an amount at least equal to one hundred percent (100%) of the Contract Price as security for payment of persons performing labor and/or furnishing materials in connection with this Contract.

13.2.2. Cost of bonds shall be included in the Guaranteed Project Cost.

13.2.3. All bonds related to this Project shall be on the forms provided in the Contract Documents and shall comply with all requirements of the Contract Documents.

14. WARRANTY/GUARANTEE/INDEMNITY

14.1. Warranty/Guarantee

14.1.1. The Developer shall obtain and preserve for the benefit of the District, manufacturer's warranties on materials, fixtures, and equipment incorporated into the Work.

14.1.2. In addition to guarantees required elsewhere, Developer shall, and hereby does guarantee and warrant all Work furnished on the job against all defects for a period of **ONE (1)** year after the later of the following dates:

14.1.2.1. Project Completion,

14.1.2.2. The commissioning date for the Project, if any.

At the District's sole option, Developer shall repair or replace any and all of that Work, together with any other Work that may be displaced in so doing, that may prove defective in workmanship and/or materials within a **ONE (1)** year period from date of completion as defined above without expense whatsoever to District. In the event of failure of Developer and/or Surety to commence and pursue with diligence said replacements or repairs within ten (10) days after being notified in writing, Developer and Surety hereby acknowledge and agree that District is authorized to proceed to have defects repaired and made good at expense of Developer and/or Surety who hereby agree to pay costs and charges therefore immediately on demand.

14.1.3. If, in the opinion of District, defective work creates a dangerous condition or requires immediate correction or attention to prevent further loss to District or to prevent interruption of operations of District, District will attempt to give the notice required above. If Developer or Surety cannot be contacted or neither complies with District's request for correction within a reasonable time as determined by District, District may, notwithstanding the above provision, proceed to make any and all corrections and/or provide attentions the District believes are necessary. The costs of correction or attention shall be charged against Developer and Surety of the guarantees provided in this Article or elsewhere in this Contract.

14.1.4. The above provisions do not in any way limit the guarantees on any items for which a longer guarantee is specified or on any items for which a manufacturer gives a guarantee for a longer period. Developer shall furnish to District all appropriate guarantee or warranty certificates as indicated in the Specifications or upon request by District.

14.1.5. Nothing herein shall limit any other rights or remedies available to District.

14.2. **Indemnity** Developer shall indemnify the District as indicated in the Facilities Lease.

15. TIME

15.1. Computation of Time / Adverse Weather

15.1.1. The Developer will only be allowed a time extension for Adverse Weather conditions if requested by Developer and only if all of the following conditions are met:

15.1.1.1. The weather conditions constitute Adverse Weather, as defined herein;

15.1.1.2. Developer can verify that the Adverse Weather caused delays in excess of five hours of the indicated labor required to complete the scheduled tasks of Work on the day affected by the Adverse Weather;

15.1.1.3. The Developer’s crew is dismissed as a result of the Adverse Weather; and

15.1.1.4. The number of days of delay for the month exceeds the following parameters. The District and Developer may negotiate a different minimum number of days, which shall be as indicated in **Exhibit K** to the Master Facilities Lease:

January	<u>11</u>	July	<u>0</u>
February	<u>10</u>	August	<u>0</u>
March	<u>10</u>	September	<u>1</u>
April	<u>6</u>	October	<u>4</u>
May	<u>3</u>	November	<u>7</u>
June	<u>1</u>	December	<u>10</u>

15.1.2. A day-for-day extension will only be allowed for those days in excess of those indicated herein.

15.1.3. The Contract Time has been determined with consideration given to the average climate weather conditions prevailing in the County in which the Project is located.

15.2. Hours of Work

Work shall be performed during regular working hours as permitted by the appropriate governmental agency except that in the event of an emergency, or when required to complete the Work in accordance with job progress, Work may be performed outside of regular working hours with the advance written consent of the District and approval of any required governmental agencies.

15.3. Progress and Project Completion

15.3.1. Time of the Essence

Time limits stated in the Contract Documents are of the essence to the Contract. By executing the Facilities Lease, the Developer confirms that the Contract Time is a reasonable period for Project Completion.

15.3.2. No Commencement Without Insurance

The Developer shall not commence operations on the Project or elsewhere prior to the effective date of insurance and bonds. The date of commencement of the Work shall not be changed by the effective date of such insurance. If Developer commences Work without insurance and bonds, all Work is performed at Developer’s peril and shall not be compensable until and unless Developer secures bonds and insurance pursuant to the terms of the Contract Documents and subject to District claim for damages.

15.3.3. Sufficient Forces

Developer and Subcontractors shall continuously furnish sufficient forces to ensure the prosecution of the Work in accordance with the Construction Schedule to obtain Project Completion within the Contract Time.

15.4. Schedule

Developer shall provide to District, Construction Manager, and Architect a schedule in conformance with the Contract Documents and as required in these General Construction Provisions.

15.5. Expeditious Completion

The Developer shall proceed expeditiously with adequate forces and shall achieve Completion within the Contract Time.

16. EXTENSIONS OF TIME – LIQUIDATED DAMAGES

16.1. Liquidated Damages

Developer and District hereby agree that the exact amount of damages for failure to complete the Work within the time specified is extremely difficult or impossible to determine. If the Work is not completed within the time specified in the Contract Documents, it is understood that the District will suffer damage. It being impractical and unfeasible to determine the amount of actual damage, it is agreed the Developer shall pay to District as fixed and liquidated damages, and not as a penalty, the amount set forth in the Facilities Lease for each calendar day of delay beyond the Contract Time. Developer and its Surety shall be liable for the amount thereof pursuant to Government Code section 53069.85.

16.2. Excusable Delay

16.2.1. Developer shall not be charged for liquidated damages because of any delays beyond the Contract Time which are not the fault of Developer or its Subcontractors, including acts of God as defined in Public Contract Code section 7105, acts of enemy, epidemics, and quarantine restrictions. Developer shall, within five (5) calendar days of any delay, notify District in writing of causes of delay including documentation and facts explaining the delay. District shall review the facts and extent of any delay and shall grant extension(s) of time for completing Work when, in its judgment, the findings of fact justify an extension. Extension(s) of time shall apply only to that portion of Work affected by delay, and shall not apply to other portions of Work not so affected. An extension of time may only be granted if Developer has timely submitted the Construction Schedule as required herein.

16.2.2. Developer shall notify the District pursuant to the claims provisions in these General Construction Provisions of any anticipated delay and its cause. Following submission of a claim, the District may determine whether the delay is to be considered avoidable or unavoidable, how long it continues, and to what extent the prosecution and Project Completion might be delayed thereby.

16.2.3. In the event the Developer requests an extension of Contract Time for unavoidable delay, such request shall be submitted in accordance with the provisions in the Contract Documents governing changes in Work. When requesting time, requests must be submitted with full justification and documentation. If the Developer fails to submit justification, it waives its right to a time extension at a later date. Such justification must be based on the official Construction Schedule as updated at the time of occurrence of the delay or execution of Work related to any changes to the Scope of Work. Any claim for delay must include the following information as support, without limitation:

16.2.3.1. The duration of the activity relating to the changes in the Work and the resources (manpower, equipment, material, etc.) required to perform the activities within the stated duration.

16.2.3.2. Specific logical ties to the Construction Schedule for the proposed changes and/or delay showing the activity/activities in the Construction Schedule that are affected by the change and/or delay. (A portion of any delay of seven (7) days or more must be provided.)

16.2.3.3. A revised Construction Schedule must be submitted.

16.3. No Additional Compensation for Delays Within Developer’s Control

16.3.1. Developer is aware that governmental agencies, including, without limitation, the Division of the State Architect, the Department of General Services, gas companies, electrical utility companies, water districts, and other agencies may have to approve Developer-prepared drawings or approve a proposed installation. Accordingly, Developer has included in the Guaranteed Project Cost, time for possible review of its drawings and for reasonable delays and damages that may be caused by such agencies. Thus, Developer is not entitled to make a claim for damages or delays arising from the review of Developer’s drawings.

16.3.2. Developer shall only be entitled to compensation for delay when all of the following conditions are met:

16.3.2.1. The District or it’s consultants, employees, architects or contractors are responsible for the delay;

16.3.2.2. The delay was not reasonably anticipated by District and Developer; and

16.3.2.3. Developer complies with the claims procedure of the Contract Documents.

16.4. Float or Slack in the Schedule

Float or slack is the amount of time between the early start date and the late start date, or the early finish date and the late finish date, of any of the activities in the schedule. Float or slack is not for the exclusive use of or benefit of either the District or the Developer, however it shall be used as necessary to accommodate delays in the progress of the Work which may occur during the course of construction, as determined by the District. Developer shall not be entitled to an extension of time for any claimed delays to the extent that such delays may be covered by the float.

17. CHANGES IN THE WORK

17.1. No Changes Without Authorization

17.1.1. There shall be no change whatsoever in the Drawings, Specifications, or in the Work without an executed Change Order authorized by the District as herein provided. District shall not be liable for the cost of any extra work or any substitutions, changes, additions, omissions, or deviations from the Drawings and Specifications unless the District's governing board has authorized the same and the cost thereof has been approved in writing by Change Order. No extension of time for performance of the Work shall be allowed hereunder unless claim for such extension is made at the time changes in the Work are ordered, and such time duly adjusted in writing in the Change Order. The provisions of the Contract Documents shall apply to all such changes, additions, and omissions with the same effect as if originally embodied in the Drawings and Specifications.

17.1.2. Developer shall perform immediately all work that has been authorized by a fully executed Change Order. Developer shall be fully responsible for any and all delays and/or expenses caused by Developer's failure to expeditiously perform this Work.

17.1.3. Should any Change Order result in an increase in the Guaranteed Project Cost, the cost of that Change Order shall be agreed to, in writing, in advance by Developer and District. In the event that Developer proceeds with any change in Work without a Change Order executed by the District, Developer waives any claim of additional compensation or time for that additional work.

17.1.4. Developer understands, acknowledges, and agrees that the reason for District authorization is so that District may have an opportunity to analyze the Work and decide whether the District shall proceed with the Change Order or alter the Project so that a change in Work becomes unnecessary.

17.2. Architect Authority

The Architect will have authority to order minor changes in the Work not involving any adjustment in the Guaranteed Project Cost, or an extension of the Contract Time, or a change that is inconsistent with the intent of the Contract Documents. These changes shall be effected by written Change Order or by Architect's response(s) to RFI(s).

17.3. Change Orders

17.3.1. A Change Order is a written instrument prepared and issued by the District and/or the Architect and signed by the District (as authorized by the District's governing board), the Developer, the Architect, and approved by the Project Inspector (if necessary) and DSA (if necessary), stating their agreement regarding all of the following:

17.3.1.1. A description of a change in the Work;

17.3.1.2. The amount of the adjustment in the Guaranteed Project Cost, if any; and

17.3.1.3. The extent of the adjustment in the Contract Time, if any.

17.4. Price Request

17.4.1. Definition of Price Request

A Price Request ("PR") is a written request prepared by the District or the Architect requesting the Developer to submit to the District and/or the Architect an estimate of the effect of a proposed change in the Work on the Guaranteed Project Cost and the Contract Time.

17.4.2. Scope of Price Request

A Price Request shall contain adequate information, including any necessary Drawings and Specifications, to enable Developer to provide the cost breakdowns required herein. The Developer shall not be entitled to any additional compensation for preparing a response to a Price Request, whether ultimately accepted or not.

17.5. Proposed Change Order

17.5.1. Definition of Proposed Change Order

A Proposed Change Order (“PCO”) is a written request prepared by the Developer requesting that the District and the Architect issue a Change Order based upon a proposed change to the Work.

17.5.2. Changes in Guaranteed Project Cost

A PCO shall include breakdowns pursuant to the revisions herein to validate any change in Guaranteed Project Cost.

17.5.3. Changes in Time

A PCO shall also include any changes in time required to complete the Project. Any additional time requested shall not be the number of days to make the proposed change, but must be based upon the impact to the Construction Schedule as defined in the Contract Documents. If Developer fails to request a time extension in a PCO, then the Developer is thereafter precluded from requesting time and/or claiming a delay.

17.5.4. Unknown and/or Unforeseen Conditions

If Developer submits a PCO requesting an increase in Guaranteed Project Cost and/or Contract Time that is based at least partially on Developer’s assertion that Developer has encountered unknown and/or unforeseen condition(s) on the Project, then Developer shall base the PCO on provable information that demonstrates that the unknown and/or unforeseen condition(s) were actually or reasonably unknown and/or unforeseen. If not, the District shall deny the PCO and the Developer shall complete the Project without any increase in Guaranteed Project Cost and/or Contract Time based on that PCO.

17.6. Format for Proposed Change Order

17.6.1. The following format shall be used as applicable by the District and the Developer (e.g. Change Orders, PCO’s) to communicate proposed additions and deductions to the Contract, supported by attached documentation.

	<u>SUBCONTRACTOR PERFORMED WORK</u>	<u>ADD</u>	<u>DEDUCT</u>
(a)	<u>Material</u> (attach itemized quantity and unit cost plus sales tax)		
(b)	<u>Add Labor</u> (attach itemized hours and rates, fully encumbered)		
(c)	<u>Add Equipment</u> (attach suppliers’ invoice)		
(d)	<u>SUBTOTAL</u>		
(e)	<u>Add Subcontractor’s overhead and profit</u> , not to exceed ten percent (10%) of item (d)		
(f)	<u>SUBTOTAL</u>		
(g)	<u>Add Developer’s fee, overhead, profit & general conditions</u> , not to exceed five percent (5.0%) of the sum of item (d)		
(h)	<u>SUBTOTAL</u>		
(i)	<u>Add Bond and Insurance</u> , not to exceed one and one half percent (1.0%) of Item (h)		
(j)	<u>TOTAL</u>		
(k)	<u>Time</u>		_____ Days

	<u>DEVELOPER PERFORMED WORK</u>	<u>ADD</u>	<u>DEDUCT</u>
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(a)	Material (attach itemized quantity and unit cost plus sales tax)		
(b)	Add Labor (attach itemized hours and rates, fully encumbered)		
(c)	Add Equipment (attach suppliers' invoice)		
(d)	SUBTOTAL		
(e)	Add Developer's fee, overhead, profit & general conditions , not to exceed fifteen percent (15.0%) of the sum of item (d)		
(f)	SUBTOTAL		
(i)	Add Bond and Insurance , not to exceed one and one half percent (1.0%) of item (f)		
(j)	TOTAL		
(k)	Time		_____ Days

17.7. Change Order Certification

17.7.1. All Change Orders and PCOs must include the following certification by the Developer:

The undersigned Developer approves the foregoing as to the changes, if any, and the Guaranteed Project Cost specified for each item and as to the extension of time allowed, if any, for Project Completion, and agrees to furnish all labor, materials, and service, and perform all work necessary to complete any additional work specified for the consideration stated herein. Submission of sums which have no basis in fact or which Developer knows are false are at the sole risk of Developer and may be a violation of the False Claims Act set forth under Government Code section 12650 et seq. It is understood that the changes herein to the Contract shall only be effective when approved by the governing board of the District.

It is expressly understood that the value of the extra Work or changes expressly includes any and all of the Developer's costs and expenses, both direct and indirect, resulting from additional time required on the Project or resulting from delay to the Project. Any costs, expenses, damages, or time extensions not included are deemed waived.

17.8. Determination of Change Order Cost

17.8.1. The amount of the increase or decrease in the Guaranteed Project Cost from a Change Order, if any, shall be determined in one or more of the following ways as applicable to a specific situation and at the District's discretion:

- 17.8.1.1.** District acceptance of a PCO;
- 17.8.1.2.** By amounts contained in Developer's schedule of values, if applicable;
- 17.8.1.3.** By agreement between District and Developer.

17.8.2. If the District has put in contingency(s) and/or allowance(s) in **Exhibit "C"** to the Facilities Lease, then approved Change Order(s) may be paid out of those contingency(s) and/or allowance(s), pursuant to **Exhibit "C"** and if agreed to by the District.

17.9. Deductive Change Orders

All deductive Change Order(s) must be prepared pursuant to the provisions herein. If Developer offers a proposed amount for a deductive Change Order(s), Developer shall include a minimum of five percent

(5%) total overhead, profit & general conditions to be deducted with the amount of the work of the Change Order(s). If Subcontractor work is involved, Subcontractors shall also include a minimum of five percent (5%) total overhead, profit & general conditions to be deducted with the amount of its deducted work. Any deviation from this provision shall on be permitted with the District's prior written approval.

17.10. Construction Change Directives / Unilateral Change Orders

17.10.1. A Construction Change Directive (or Unilateral Change Order) is a written order prepared and issued by the District, the Construction Manager, and/or the Architect and signed by the District and the Architect, directing a change in the Work. The District may as provided by law, by Construction Change Directive and without invalidating the Contract, order changes in the Work consisting of additions, deletions, or other revisions. If all or a portion of the Project is being funded by funds requiring approval by the State Allocation Board (SAB), these revisions may be subject to compensation once approval of same is received and funded by the SAB, and funds are released by the Office of Public School Construction (OPSC). Any dispute as to the sum of the Construction Change Directive or timing of payment shall be resolved pursuant to the Payment and Claims and Disputes provisions herein.

17.10.2. The District may issue a Construction Change Directive in the absence of agreement on the terms of a Change Order.

17.11. Discounts, Rebates, and Refunds

For purposes of determining the cost, if any, of any change, addition, or omission to the Work hereunder, all trade discounts, rebates, refunds, and all returns from the sale of surplus materials and equipment shall accrue and be credited to the Developer, and the Developer shall make provisions so that such discounts, rebates, refunds, and returns may be secured, and the amount thereof shall be allowed as a reduction of the Developer's cost in determining the actual cost of construction for purposes of any change, addition, or omission in the Work as provided herein. Such discounts and rebates generated as a result of early payments shall only be credited to the District, provided that the District provides Developer with early payment in order to secure such discounts and rebates.

17.12. Accounting Records

With respect to portions of the Work performed by Change Orders, the Developer shall keep and maintain cost-accounting records satisfactory to the District, which shall be available to the District on the same terms as any other books and records the Developer is required to maintain under the Contract Documents.

17.13. Notice Required

If the Developer desires to make a claim for an increase in the Guaranteed Project Cost, or any extension in the Contract Time for Project Completion, it shall notify the District pursuant to the provisions herein. No claim shall be considered unless made in accordance with this subparagraph. Developer shall proceed to execute the Work even though the adjustment may not have been agreed upon. Any change in the Guaranteed Project Cost or extension of the Contract Time resulting from such claim shall be authorized by a Change Order.

17.14. Applicability to Subcontractors

Any requirements under this Article shall be equally applicable to Change Orders issued to Subcontractors by the Developer to the extent as required by the Contract Documents.

17.15. Alteration to Change Order Language

Developer shall not alter Change Orders or reserve time in Change Orders. Developer shall execute finalized Change Orders and proceed under the provisions herein with proper notice.

17.16. Failure of Developer to Execute Change Order

Developer shall be in default of the Contract if Developer fails to execute a Change Order when the Developer agrees with the addition and/or deletion of the Work in that Change Order.

17.17. Allowances

To the extent any item or portion of the Work is required by the Contract Documents to be priced as an Allowance, any amounts remaining in the Allowance which are to be deducted from the Guaranteed Project Cost shall be calculated according to the provisions of **Exhibit "C"** to the Facilities Lease and the Deductive Change Order provisions herein.

18. REQUESTS FOR INFORMATION

18.1. Any Request for Information ("RFI") shall reference all applicable Contract Document(s), including Specification section(s), detail(s), page number(s), drawing number(s), and sheet number(s), etc. The Developer shall make suggestions and interpretations of the issue raised by each Request for Information. A Request for Information cannot modify the Guaranteed Project Cost, Contract Time, or the Contract Documents.

18.2. The Developer shall be responsible for any costs incurred for professional services that District may deduct from any amounts owing to the Developer, if Developer makes multiple Requests for Information that request interpretation(s) or decision(s) of a matter where the information sought is equally available to the Developer. District, at its sole discretion, shall deduct from and/or invoice Developer for all the professional services arising herein.

18.3. Requests for Information shall comply with all requirements of the Contract Documents.

18.4. Prior to submitting the RFI, Developer shall diligently review the Contract Documents for information responsive to the RFI, including information incorporated by reference. Developer should not issue RFI's regarding information contained in or inferable from the Contract Documents, including information incorporated by reference. An RFI is invalid if the RFI response is contained in or inferable from the Contract Documents.

18.5. Developer shall be responsible for preparing and submitting RFI's so as to not cause delay to the progress of the Work nor to cause any impact to the Developer's labor productivity. An RFI may be considered untimely if not submitted within **Forty Eight (48) hours** of receipt from a Developer's subcontractor. Untimely submission of any RFI will preclude Developer from asserting any claims for delay or for labor impact against the District.

19. PAYMENTS

19.1. Guaranteed Project Cost

As compensation for Developer's construction of the Project, the District shall pay Developer pursuant to the terms of **Exhibit "C"** to the Facilities Lease.

19.2. Applications for Tenant Improvement Payments

19.2.1. Procedure for Applications for Tenant Improvement Payments

19.2.1.1. Not before the fifth (5th) day of each calendar month during the progress of the Work, Developer shall submit to the District and the Architect an itemized Application for Payment for operations completed in accordance with the Schedule of Values. Each Application for Tenant Improvement Payment shall be notarized, if required, and supported by the following or each portion thereof unless waived by the District in writing:

- 19.2.1.1.1.** The amount paid to the date of the Application for Tenant Improvement Payment to the Developer, to all its Subcontractors, and all others furnishing labor, material, or equipment for its Contract;
- 19.2.1.1.2.** The amount being requested under the Application for Tenant Improvement Payment by the Developer on its own behalf and separately stating the amount requested on behalf of each of the Subcontractors and all others furnishing labor, material, and equipment under the Contract;
- 19.2.1.1.3.** The balance that will be due to each of such entities after said payment is made;
- 19.2.1.1.4.** A certification that the As-Built Drawings and annotated Specifications are current;
- 19.2.1.1.5.** Itemized breakdown of work done for the purpose of requesting partial payment;
- 19.2.1.1.6.** An updated and acceptable construction schedule in conformance with the provisions herein;
- 19.2.1.1.7.** The additions to and subtractions from the Guaranteed Project Cost and Contract Time;
- 19.2.1.1.8.** Material invoices, evidence of equipment purchases, rentals, and other support and details of cost as the District may require from time to time;
- 19.2.1.1.9.** The percentage of completion of the Developer's Work by line item;
- 19.2.1.1.10.** Schedule of Values updated from the preceding Application for Tenant Improvement Payment;
- 19.2.1.1.11.** A duly completed and executed conditional waiver and release upon progress payment compliant with Civil Code section 8132 from each subcontractor of any tier and supplier to be paid from the current progress payment;
- 19.2.1.1.12.** A duly completed and executed unconditional waiver and release upon progress payment compliant with Civil Code section 8134 from each subcontractor of any tier and supplier that was paid from the progress payment from sixty (60) days prior; and
- 19.2.1.1.13.** A certification by the Developer of the following:

The Developer warrants title to all Work performed as of the date of this payment application. The Developer further warrants that all Work performed as of the date of

this payment application is free and clear of liens, claims, security interests, or encumbrances in favor of the Developer, Subcontractors, material and equipment suppliers, workers, or other persons or entities making a claim by reason of having provided labor, materials, and equipment relating to the Work, except those of which the District has been informed.

19.2.1.1.14. If the District has an LCP in force on this Project and if not previously submitted as required herein, all remaining certified payroll record (“CPR(s)”) for each journeyman, apprentice, worker, or other employee employed by the Developer and/or each Subcontractor in connection with the Work for the period of the Application for Payment. As indicated herein, if the District has an LCP in force on this Project, the District shall not make any payment to Developer until:

19.2.1.1.14.1. Developer and/or its Subcontractor(s) provide CPRs acceptable to the District, and

19.2.1.1.14.2. The District is given sufficient time to review and/or audit the CPRs to determine their acceptability. Any delay in Developer and/or its Subcontractor(s) providing CPRs to the District in a timely manner will directly delay the District’s review and/or audit of the CPRs and Developer’s payment.

19.2.1. Prerequisites for Tenant Improvement Payments

19.2.1.1. First Payment Request: The following items, if applicable, must be completed before the District will accept and/or process the Developer's first payment request:

- 19.2.1.1.1.** Schedule of unit prices, if applicable;
- 19.2.1.1.2.** Receipt by Architect of all submittals due as of the date of the payment application;
- 19.2.1.1.3.** Copies of authorizations and licenses from governing authorities;
- 19.2.1.1.4.** Initial progress report;
- 19.2.1.1.5.** Surveyor qualifications;
- 19.2.1.1.6.** Written acceptance of District's survey of rough grading, if applicable;
- 19.2.1.1.7.** List of all Subcontractors, with names, license numbers, telephone numbers, and Scope of Work;
- 19.2.1.1.8.** All bonds and insurance endorsements; and
- 19.2.1.1.9.** Resumes of Developer’s project manager, and if applicable, job site secretary, record documents recorder, and job site superintendent.

19.2.1.2. No Waiver of Criteria. Any payments made to Developer where criteria set forth herein have not been met shall not constitute a waiver of said criteria by District. Instead, such payment shall be construed as a good faith effort by District to resolve differences so Developer may pay its Subcontractors and suppliers. Developer agrees that failure to submit such items may constitute a breach of contract by Developer and may subject Developer to termination.

19.3. District's Approval of Application for Tenant Improvement Payment

19.3.1. Upon receipt of an Application for Tenant Improvement Payment, The District shall act in accordance with both of the following:

19.3.1.1. Each Application for Tenant Improvement Payment shall be reviewed by the District as soon as practicable after receipt for the purpose of determining that the Application for Tenant Improvement Payment is a proper Application for Tenant Improvement Payment.

19.3.1.2. Any Application for Tenant Improvement Payment determined not to be a proper Application for Tenant Improvement Payment suitable for payment shall be returned to the Developer as soon as practicable, but not later than seven (7) days, after receipt. An Application for Tenant Improvement Payment returned pursuant to this paragraph shall be accompanied by a document setting forth in writing the reasons why the Application for Tenant Improvement Payment is not proper. The number of days available to the District to make a payment without incurring interest pursuant to this section shall be reduced by the number of days by which the District exceeds this seven-day return requirement.

19.3.1.3. An Application for Tenant Improvement Payment shall be considered properly executed if funds are available for payment of the Application for Tenant Improvement Payment, and payment is not delayed due to an audit inquiry by a financial officer or auditor of the District, the County, or the State.

19.3.2. The District's review of the Developer's Application for Tenant Improvement Payment will be based on the District's and the Architect's observations at the Site and the data comprising the Application for Tenant Improvement Payment that the Work has progressed to the point indicated and that, to the best of the District's and the Architect's knowledge, information, and belief, the quality of the Work is in accordance with the Contract Documents. The foregoing representations are subject to:

19.3.2.1. Observation of the Work for general conformance with the Contract Documents,

19.3.2.2. Results of subsequent tests and inspections,

19.3.2.3. Minor deviations from the Contract Documents correctable prior to Project Completion, and

19.3.2.4. Specific qualifications expressed by the Architect.

19.3.3. District's approval of the certified Application for Tenant Improvement Payment shall be based on Developer complying with all requirements for a fully complete and valid certified Application for Tenant Improvement Payment.

19.3.4. Payments to Developer

Within thirty (30) days after District approval of the Application for Tenant Improvement Payment, Developer shall be paid a sum equal to ninety percent (90%) of the value of the Work performed (as verified by Architect and Inspector and certified by Developer) up to the last day of the previous month, less the aggregate of previous payments and amount to be withheld as allowable herein. The value of the Work completed shall be Developer's best estimate. No inaccuracy or error in said estimate shall operate to release the Developer, or any Surety upon any bond, from damages arising

from such Work, or from the District's right to enforce each and every provision of this Contract, and the District shall have the right subsequently to correct any error made in any estimate for payment.

19.3.5. No Waiver

No payment by District hereunder shall be interpreted so as to imply that District has inspected, approved, or accepted any part of the Work. Notwithstanding any payment, the District may enforce each and every provision of this Contract. The District may correct or require correction of any error subsequent to any payment.

19.3.6. Warranty of Title

19.3.6.1. If a lien or a claim based on a stop payment notice of any nature should at any time be filed against the Work or any District property, by any entity that has supplied material or services at the request of the Developer, Developer and Developer's Surety shall promptly, on demand by District and at Developer's and Surety's own expense, take any and all action necessary to cause any such lien or a claim based on a stop payment notice to be released or discharged immediately therefrom.

19.3.6.2. If the Developer fails to furnish to the District within ten (10) calendar days after demand by the District, satisfactory evidence that a lien or a claim based on a stop payment notice has been so released, discharged, or secured, the District may discharge such indebtedness and deduct the amount required therefor, together with any and all losses, costs, damages, and attorney's fees and expense incurred or suffered by District from any sum payable to Developer under the Contract.

19.3.7. Decisions to Withhold Payment

19.3.7.1. Reasons to Withhold Payment

The District may withhold payment to the extent reasonably necessary to protect the District if, in the District's opinion, the representations to the District required herein cannot be made. The District may withhold payment to such extent as may be necessary to protect the District from loss because of, but not limited to:

- 19.3.7.1.1.** Defective Work not remedied within **FORTY-EIGHT (48)** hours of written notice to Developer;
- 19.3.7.1.2.** Stop payment notices or other liens served upon the District as a result of the Contract;
- 19.3.7.1.3.** Liquidated damages assessed against the Developer
- 19.3.7.1.4.** The cost of Project Completion if there exists reasonable doubt that the Work can be completed for the unpaid balance of the Guaranteed Project Cost or by the Contract Time;
- 19.3.7.1.5.** Damage to the District or other contractor(s);
- 19.3.7.1.6.** Unsatisfactory prosecution of the Work by the Developer:
- 19.3.7.1.7.** Failure to store and properly secure materials;

- 19.3.7.1.8.** Failure of the Developer to submit, on a timely basis, proper, sufficient, and acceptable documentation required by the Contract Documents, including, without limitation, a Construction Schedule, Schedule of Submittals, Schedule of Values, Monthly Progress Schedules, Shop Drawings, Product Data and samples, Proposed product lists, executed Change Orders, and/or verified reports;
 - 19.3.7.1.9.** Failure of the Developer to submit As-Built Drawings;
 - 19.3.7.1.10.** Erroneous estimates by the Developer of the value of the Work performed, or other false statements in an Application for Payment;
 - 19.3.7.1.11.** Unauthorized deviations from the Contract Documents;
 - 19.3.7.1.12.** Failure of the Developer to prosecute the Work in a timely manner in compliance with the milestones within the Construction Schedule, established progress schedules, and/or completion dates;
 - 19.3.7.1.13.** If the District has an LCP in force on this Project, the failure to provide certified payroll records acceptable to the District for each journeyman, apprentice, worker, or other employee employed by the Developer and/or each Subcontractor in connection with the Work for the period of the Application for Payment;
 - 19.3.7.1.14.** Failure to properly pay prevailing wages as defined in Labor Code section 1720 et seq., failure to comply with any other Labor Code requirements, and/or failure to comply with the District's LCP, if one is in force on this Project;
 - 19.3.7.1.15.** Failure to properly maintain or clean up the Site;
 - 19.3.7.1.16.** Payments to indemnify, defend, or hold harmless the District;
 - 19.3.7.1.17.** Any payments due to the District, including but not limited to payments for failed tests, utilities changes, or permits;
 - 19.3.7.1.18.** Failure to pay Subcontractor(s) or supplier(s) as required by law and by the Contract Documents;
 - 19.3.7.1.19.** Developer is otherwise in breach, default, or in substantial violation of any provision of this Contract.
 - 19.3.7.1.20.** Extra services for Architect.
 - 19.3.7.1.21.** Extra services for the Inspector including but not limited to overtime tests and inspection or re-inspection required due to Developer's failed tests or installation of unapproved or defective materials and Developer's requests for inspection and Developer's failure to attend the inspection.
 - 19.3.7.1.22.** Any other obligation(s) of the District which the District is authorized and/or compelled by law to perform.
- 19.3.7.2.** Reallocation of Withheld Amounts. District may, in its reasonable discretion, apply any withheld amount to pay outstanding claims or obligations as defined herein. In so doing, District shall make such payments on behalf of Developer only after providing fourteen (14) days prior written

notice to Developer, requesting the Developer provide information in response to same. District shall consider all information provided by Developer in exercising its discretion to pay any such claim or obligation. These payments may be made without prior judicial determination of claim or obligation. District will render Developer an accounting of funds disbursed on behalf of Developer.

19.3.7.3. If Developer defaults or neglects to carry out the Work in accordance with the Contract Documents or fails to perform any provision thereof, District may, after **FORTY-EIGHT (48)** hours written notice to the Developer and, without prejudice to any other remedy, make good such deficiencies. The District shall adjust the total Guaranteed Project Cost by reducing the amount thereof by the cost of making good such deficiencies. If District deems it inexpedient to correct Work that is damaged, defective, or not done in accordance with Contract provisions, an equitable reduction in the Guaranteed Project Cost (of at least one hundred twenty-five percent (125%) of the estimated reasonable value of the nonconforming Work) shall be made therefor.

19.3.8. Payment After Cure

When Developer removes the grounds for declining approval, payment shall be made for amounts withheld because of them. No interest shall be paid on any retention or amounts withheld due to the failure of the Developer to perform in accordance with the terms and conditions of the Contract Documents.

19.4. Subcontractor Payments

19.4.7. Payments to Subcontractors

No later than seven (7) days after receipt of each Tenant Improvement Payment, or pursuant to Business and Professions Code section 7108.5 and Public Contract Code section 7107, the Developer shall pay to each Subcontractor, out of the amount paid to the Developer on account of such Subcontractor's portion of the Work, the amount to which said Subcontractor is entitled. The Developer shall, by appropriate agreement with each Subcontractor, require each Subcontractor to make payments to its Sub-subcontractors in a similar manner.

19.4.8. No Obligation of District for Subcontractor Payment

The District shall have no obligation to pay, or to see to the payment of, money to a Subcontractor except as may otherwise be required by law.

19.4.9. Joint Checks

Provided Developer is in breach of its payment obligations to its subcontractors and after 14 days written notice, District shall have the right in its sole discretion, if necessary for the protection of the District, to issue joint checks made payable to the Developer and Subcontractors and material or equipment suppliers. The joint check payees shall be responsible for the allocation and disbursement of funds included as part of any such joint payment. In no event shall any joint check payment be construed to create any contract between the District and a Subcontractor of any tier, any obligation from the District to such Subcontractor, or rights in such Subcontractor against the District.

20. COMPLETION OF THE WORK

20.1. Completion

20.1.1. District will accept the Project and have the Notice of Completion recorded when Project Completion has been achieved in accordance with the Contract Documents and to the satisfaction of District.

20.1.2. The Project may only be accepted by action of the governing board of the District.

20.1.3. District, at its sole option, may accept the Project and have the Notice of Completion recorded when Project Completion has been completed to the satisfaction of District, except for minor corrective items, as distinguished from incomplete items. If Developer fails to complete all minor corrective items within thirty (30) days after the date of the District's acceptance of the Project, District shall withhold from the final payment one hundred fifty percent (150%) of an estimate of the amount sufficient to complete the corrective items, as determined by District, until the item(s) are completed.

20.1.4. At the end of the thirty-five (35) day period, if there are any items remaining to be corrected, District may elect to proceed as provided herein related to adjustments to Guaranteed Project Cost, and/or District's right to perform the Work of the Developer.

20.2. Closeout Procedures

20.2.1. In addition to the closeout procedures indicated herein, Developer shall comply with all the closeout requirements, procedures, and actions as indicated in all Contract Documents.

20.2.2. Punch List

The Developer shall notify the Architect when Developer considers the Work complete. Upon notification, Architect will prepare a list of minor items to be completed or corrected ("Punch List"). The Developer and/or its Subcontractors shall proceed promptly to complete and correct items on the Punch List. Failure to include an item on Punch List does not alter the responsibility of the Developer to complete all Work in accordance with the Contract Documents.

20.2.3. Closeout Requirements

20.2.3.1. Utility Connections

Buildings shall be connected to water, gas, sewer, and electric services, complete and ready for use. Service connections shall be made and existing services reconnected.

20.2.3.2. As-Built Drawings

20.2.3.2.1. Developer shall provide exact "as-built" of the Work upon Project Completion as indicated in the Contract Documents ("As-Built Drawings").

20.2.3.2.2. Developer is liable and responsible for any and all inaccuracies in As-Built Drawings, even if inaccuracies become evident at a future date.

20.2.3.2.3. Upon Project Completion and as a condition precedent to approval of final payment, Developer shall obtain the Inspector's approval of the corrected prints and provide to the District the As-Built Drawings and information on disk. When completed, Developer shall deliver corrected sepias and diskette/CD/other data storage device acceptable to District with AutoCAD file to the District.

20.2.3.3. Maintenance Manuals: Developer shall prepare all operation and maintenance manuals and date as indicated in the Contract Documents.

20.2.3.4. Closeout Documentation: Developer shall provide all Closeout Documentation, which shall include the following, without limitation:

- 20.2.3.4.1.** A full set of As-Builts, as further indicated herein
- 20.2.3.4.2.** All Maintenance Manuals, operations manual(s), and related information, as further indicated herein
- 20.2.3.4.3.** All Warranties, as further indicated herein
- 20.2.3.4.4.** Verified report(s) for all scope(s) of work (DSA-6 Verified Report, Rev 04/08, or more recent revision if available)

20.3. Final Inspection

20.3.1. Developer shall comply with Punch List procedures as provided herein and in all the Contract Documents, and maintain the presence of its District-approved project superintendent and project manager until the Punch List is complete to ensure proper and timely completion of the Punch List. Under no circumstances shall Developer demobilize its forces prior to completion of the Punch List. Upon receipt of Developer's written notice that all of the Punch List items have been fully completed and the Work is ready for final inspection and acceptance, Architect and Project Inspector will inspect the Work and shall submit to Developer and District a final inspection report noting the Work, if any, required in order to complete in accordance with the Contract Documents. Absent unusual circumstances, this report shall consist of the Punch List items not yet satisfactorily completed.

20.3.2. Upon Developer's completion of all items on the Punch List and any other uncompleted portions of the Work, the Developer shall notify the District and Architect, who shall again inspect such Work. If the Architect finds the Work complete and acceptable under the Contract Documents, the Architect will notify Developer, who shall then jointly submit to the Architect and the District its final Application for Payment.

20.3.3. Final Inspection Requirements

20.3.3.1. Before calling for final inspection, Developer shall determine that the following have been performed:

- 20.3.3.1.1.** The Work has been completed.
- 20.3.3.1.2.** All life safety items are completed and in working order.
- 20.3.3.1.3.** Mechanical and electrical Work are complete and tested, fixtures are in place, connected, and ready for tryout.
- 20.3.3.1.4.** Electrical circuits scheduled in panels and disconnect switches labeled.
- 20.3.3.1.5.** Painting and special finishes complete.
- 20.3.3.1.6.** Doors complete with hardware, cleaned of protective film, relieved of sticking or binding, and in working order.
- 20.3.3.1.7.** Tops and bottoms of doors sealed.

- 20.3.3.1.8. Floors waxed and polished as specified.
- 20.3.3.1.9. Broken glass replaced and glass cleaned.
- 20.3.3.1.10. Grounds cleared of Developer's equipment, raked clean of debris, and trash removed from Site.
- 20.3.3.1.11. Work cleaned, free of stains, scratches, and other foreign matter, of damaged and broken material replaced.
- 20.3.3.1.12. Finished and decorative work shall have marks, dirt, and superfluous labels removed.
- 20.3.3.1.13. Final cleanup, as provided herein.

20.4. Costs of Multiple Inspections

More than two (2) requests of the District to make a final inspection shall be considered an additional service of District, Architect, Construction Manager, and/or Project Inspector, and all subsequent costs will be invoiced to Developer and if funds are available, withheld from remaining payments.

20.5. Beneficial Occupancy or Use Prior to Project Completion

20.5.1. District's Rights to Beneficial Occupancy or Use

The District may, at its sole discretion, have Beneficial Occupancy or use of any completed or partially completed portion of the Project at any stage. Neither the District's Final Acceptance, the making of Final Payment, nor the Beneficial Occupancy or use of the Project, in whole or in part, by District shall constitute acceptance of the Project not in accordance with the Contract Documents nor relieve the Developer or the Developer's Performance Bond Surety from liability with respect to any warranties or responsibility for faulty or defective Work or materials, equipment and workmanship incorporated therein. The District and the Developer shall agree in writing to the responsibilities assigned to each of them for payments, security, maintenance, heat, utilities, damage to the Project, insurance, the period for correction of the Work, and the commencement of warranties required by the Contract Documents. Any dispute as to responsibilities shall be resolved pursuant to the Disputes and Claims provisions herein, with the added provision that during the dispute process, the District shall have the right to Beneficial Occupancy or use any portion of the Project that it needs or desires to use.

20.5.2. Inspection Prior to Beneficial Occupancy or Use

Immediately prior to partial Beneficial Occupancy or use of the Project, the District, the Developer, and the Architect shall jointly inspect the area to be occupied or portion of the Project to be used in order to determine and record the condition of the Work.

20.5.3. No Waiver

Unless otherwise agreed upon, partial or entire occupancy or use of a portion or portions of the Project shall not in of itself constitute or acceptance of the Project not complying with the requirements of the Contract Documents.

21. FINAL PAYMENT

21.1. Final Payment

Upon receipt and approval of a valid and final Application for Tenant Improvement Payment, the Architect will issue a final Certificate of Tenant Improvement Payment. The District shall thereupon jointly inspect the Work and either accept the Project as complete or notify the Architect and the Developer in writing of reasons why the Project is not complete. Upon acceptance of the Project (absent unusual circumstances, will occur when the Punch List items have been satisfactorily completed), the District shall record a Notice of Completion with the County Recorder, and the Developer shall, upon receipt of final Tenant Improvement Payment from the District, pay the amount due Subcontractors. The amount of the final Tenant Improvement Payment shall be equal to the remaining ten percent (10%) of the value of the work performed, less the total amount to be paid as Lease Payments pursuant to Exhibit C.

21.2. Prerequisites for Final Tenant Improvement Payment The following conditions must be fulfilled prior to Final Tenant Improvement Payment:

21.2.1. A full and final waiver or release of all Stop payment notices in connection with the Work shall be submitted by Developer, including a release of Stop payment notice in recordable form, together with (to the extent permitted by law) a copy of the full and final release of all Stop payment notice rights.

21.2.2. A duly completed and executed conditional waiver and release upon final payment compliant with Civil Code section 8136 from each subcontractor of any tier and supplier to be paid from the current progress payment;

21.2.3. A duly completed and executed unconditional waiver and release upon progress payment compliant with Civil Code section 8138 from each subcontractor of any tier and supplier that was paid from the previous progress payment; and

21.2.4. The Developer shall have made all corrections to the Work that are required to remedy any defects therein, to obtain compliance with the Contract Documents or any requirements of applicable codes and ordinances, or to fulfill any of the orders or directions of District required under the Contract Documents.

21.2.5. Each Subcontractor shall have delivered to the Developer all written guarantees, warranties, applications, and bonds required by the Contract Documents for its portion of the Work.

21.2.6. Developer must have completed all requirements set forth under "Closeout Procedures," Including, without limitation, an approved set of complete As-Built Drawings.

21.2.7. Architect shall have issued its written approval that final payment can be made.

21.2.8. The Developer shall have delivered to the District all manuals and materials required by the Contract Documents.

21.2.9. The Developer shall have completed final clean up as provided herein.

21.2.10. After approval by the District of the Architect's Certificate of Payment,

21.2.11. After the satisfaction of the conditions set forth herein, and

21.2.12. After thirty-five (35) days following Project Completion.

21.2.13. No interest shall be paid on any amounts withheld due to a failure of the Developer to perform, in accordance with the terms and conditions of the Contract Documents.

22. UNCOVERING OF WORK

If a portion of the Work is covered without Inspector or Architect approval or not in compliance with the Contract Documents, it must, if required in writing by the District, the Project Inspector, or the Architect, be uncovered for the Project Inspector's or the Architect's observation and be replaced at the Developer's expense without change in the Guaranteed Project Cost or Contract Time.

23. NONCONFORMING WORK AND CORRECTION OF WORK

23.1. Nonconforming Work

23.1.1. Developer shall promptly remove from Premises all Work identified by District as failing to conform to the Contract Documents whether incorporated or not. Developer shall promptly replace and re-execute its own Work to comply with the Contract Documents without additional expense to the District and shall bear the expense of making good all work of other contractors destroyed or damaged by any removal or replacement pursuant hereto and/or any delays to the District or other contractors caused thereby.

23.1.2. If Developer does not remove or reasonably begin and diligently remove Work that District has identified as failing to conform to the Contract Documents within a reasonable time, not to exceed five (5) calendar days, District may remove it and may store any material at Developer's expense. If Developer does not pay expense(s) of that removal within ten (10) days' time thereafter, District may, upon ten (10) days' written notice, sell any material at auction or at private sale and shall deduct all costs and expenses incurred by the District and/or District may withhold those amounts from payment(s) to Developer.

23.2. Correction of Work

23.2.1. Correction of Rejected Work

Pursuant to the notice provisions herein, the Developer shall promptly correct the Work rejected by the District, the Architect, or the Project Inspector as failing to conform to the requirements of the Contract Documents, whether observed before or after Project Completion and whether or not fabricated, installed, or completed. The Developer shall bear costs of correcting the rejected Work, including additional testing, inspections, and compensation for the Inspector's or the Architect's services and expenses made necessary thereby.

23.2.2. One-Year Warranty Corrections

If, within one (1) year after the date of Project Completion or a designated portion thereof, or after the date for commencement of warranties established hereunder, or by the terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Developer shall correct it promptly after receipt of written notice from the District to do so. This period of one (1) year shall be extended with respect to portions of the Work first performed after Project Completion by the period of time between Project Completion and the actual performance of the Work. This obligation hereunder shall survive acceptance of the Work under the Contract and termination of the Contract. The District shall give such notice promptly after discovery of the condition.

23.3. District's Right to Perform Work

23.3.1. If the Developer should neglect to prosecute or reasonably begin and diligently prosecute the Work properly or fail to perform any provisions of this contract, the District, after **five (5) calendar days** written notice to the Developer, may, without prejudice to any other remedy it may have, make good such deficiencies and may deduct the cost thereof from the payment then or thereafter due the Developer.

23.3.2. If it is found at any time, before or after Project Completion, that Developer has varied from the Drawings and/or Specifications, including, but not limited to, variation in material, quality, form, or finish, or in the amount or value of the materials and labor used, District may require at its option:

23.3.2.1. That all such improper Work be removed, remade or replaced, and all work disturbed by these changes be made good by Developer at no additional cost to the District;

23.3.2.2. That the District deduct from any amount due Developer the sum of money equivalent to the difference in value between the work performed and that called for by the Drawings and Specifications; or

23.3.2.3. That the District exercise any other remedy it may have at law or under the Contract Documents, including but not limited to the District hiring its own forces or another contractor to replace the Developer's nonconforming Work, in which case the District shall either issue a deductive Change Order or invoice the Developer for the cost of that work. Developer shall pay any invoices within thirty (30) days of receipt of same or District may withhold those amounts from payment(s) to Developer.

24. TERMINATION AND SUSPENSION AND SCOPE REDUCTION

The Parties' rights to terminate the Project are as indicated in the Master Facilities Lease. In the event of a termination of the Master Facilities Lease and notwithstanding any other provision in the Contract Documents, the Surety shall remain liable to all obligees under the Payment Bond and to the District under the Performance Bond for any claim related to the Project.

24.1. Emergency Termination of Public Contracts Act of 1949

24.1.1. In addition to the Parties' right to termination under the Master Facilities Lease, this Contract is subject to termination as provided by sections 4410 and 4411 of the Government Code of the State of California, being a portion of the Emergency Termination of Public Contracts Act of 1949.

24.1.1.1. Section 4410 of the Government Code states:

In the event a national emergency occurs, and public work, being performed by contract, is stopped, directly or indirectly, because of the freezing or diversion of materials, equipment or labor, as the result of an order or a proclamation of the President of the United States, or of an order of any federal authority, and the circumstances or conditions are such that it is impracticable within a reasonable time to proceed with a substantial portion of the work, then the public agency and the contractor may, by written agreement, terminate said contract.

24.1.1.2. Section 4411 of the Government Code states:

Such an agreement shall include the terms and conditions of the termination of the contract and provision for the payment of compensation or money, if any, which either party shall pay to the other or any other person, under the facts and circumstances in the case.

24.1.1.3. Compensation to the Developer shall be determined on the basis of the reasonable value of the Work done, including preparatory work. As an exception to the foregoing and at the District's discretion, in the case of any fully completed separate item or portion of the Work for which there is a separate previously submitted unit price or item on the accepted schedule of values, that price shall control. The District, at its sole discretion, may adopt the Guaranteed Project Cost as the reasonable value of the work done or any portion thereof.

24.2. Suspension of Work.

24.2.1. In the event that sufficient funds are not appropriated to complete the Project or the District determines that sufficient funds are not available to complete the Project, District may terminate or suspend the completion of the Project at any time by giving written notice to the Developer.

24.2.2. In the event that the District exercises this option, the District shall pay for any and all Work and materials completed or delivered onto the Site for which value is received, and the value of any and all Work then in progress and orders actually placed which cannot be canceled up to the date of notice of termination. The value of work and materials paid for shall include a factor of ten percent (10%) for the Developer's overhead and profit and there shall be no other costs or expenses paid to Developer. All work, materials and orders paid for pursuant to this provision shall become the property of the District.

24.2.3. District may, without cause, order Developer in writing to suspend, delay or interrupt the Project in whole or in part for such period of time as District may determine. When the District resumes the Project, the parties will attempt to negotiate an adjustment in the GPC for increases or decreases in the cost of performance of the Project caused by suspense, delay or interruption. If the parties cannot agree on an adjusted GPC, the District may terminate the leases as permitted herein.

24.3. Scope Reduction.

In cases of suspension, partial or complete termination, or at the discretion of the District, the District reserves the right to unilaterally approve a deductive Change Order to reduce scope of work or perform work with other forces or its own forces.

25. DISPUTES AND CLAIMS

25.1. Performance During Dispute And Claim Resolution Process. The Developer shall diligently proceed with Work on the Project at the same time that Disputes and Claims are addressed under this Article. It is the intent of District to resolve Disputes with the Developer as close to the events giving rise to the Disputes as possible, and to avoid stale or late Claims and the late documenting of Claims. Developer's failure to diligently proceed in accordance with the District's instructions will be considered a material breach of this Agreement.

25.2. Waiver. If Developer fails to timely submit the written notices required by the provisions in this Disputes and Claims section, Developer hereby waives and releases its rights regarding further review of its Dispute or Claim, unless Developer and District mutually agree in writing to other time limits.

25.3. Intention. The Dispute and Claims Resolution Process required herein are intended to provide a concise mechanism for resolving Disputes as they arise during the Project, while requiring accurate documentation related to contested issues as to those Disputes that are not contemporaneously resolved.

25.4. Exclusive Remedy. Compliance with the notice and claim submission procedures described in this Disputes and Claims section is an express condition precedent to the right to commence litigation, file a claim under the California Government Code, or commence any other legal action. The Developer cannot bring

assert or bring any Claim in any Government Code claim or subsequent legal action until that Claim has gone through the Dispute and Claims Resolution Process . The District hereby exercises the power conferred upon it by Government Code Sections 930.2 and 930.4 to augment claims presentation procedures and create its own Dispute and Claims Resolution Process as an exclusive remedy as indicated in this Disputes and Claims section.

25.5. Other Provisions. If portions of the Contract, other than this Disputes and Claims section establish a specific process regarding a specific subject, then that process shall govern and control the resolutions of any disagreements thereunder. Otherwise, the provisions in this Disputes and Claims section shall control the resolution of all Disputes and Claims.

25.6. Subcontractors. Developer is responsible for providing this Disputes and Claims section to its Subcontractors and for ensuring that all Subcontractors or others who may assert Claims by and through Subcontractors and/or the Developer are informed of the Dispute and Claims resolution process in this Disputes and Claims section. No Claim submitted by any party that fails to follow the provisions of this Disputes and Claims section will be considered. Developer shall indemnify, keep and hold harmless the District and its consultants, against all suits, claims, damages, losses, and expenses, including but not limited to attorney's fees, caused by, arising out of, resulting from, or incidental to, the failure to provide this Disputes and Claims section to its Subcontractors or others who may assert Claims by and through Subcontractors and/or the Developer.

25.7. Dispute And Claim Resolution Process

25.7.1. Dispute: A Dispute is a request, demand or assertion by Developer or by Subcontractor(s) or others who make a demand or request by and through a Subcontractor or Developer during performance of the Work regarding money and/or time adjustments with which the District does not agree.

25.7.2. Claim: A Claim is a Dispute that remains unresolved after conclusion of the Dispute Resolution Process identified below. Individual unresolved Disputes may be aggregated into one or more Claim(s).

25.7.3. Dispute Resolution Process (Not for Claims)

25.7.3.1. Identifying, Presenting and Documenting a Dispute

25.7.3.1.1. Every Dispute shall be stated with specificity in writing and signed by Developer under penalty of perjury and presented to the District within thirty (30) calendar days of the incidents giving rise to the Dispute. The writing shall:

25.7.3.1.1.1. Identify all of the issues, events, conditions, circumstances and/or causes giving rise to the Dispute;

25.7.3.1.1.2. Identify all pertinent dates and/or durations and all actual and/or anticipated effects on the Contract Price, milestones and/or Contract Time adjustments; and

25.7.3.1.1.3. Identify in detail line-item costs if the Dispute seeks money.

25.7.3.1.2. The writing shall be accompanied by all documents substantiating Developer's position regarding the Dispute. A Dispute that asserts an effect on any schedule milestones and/or Contract Time shall include all pertinent scheduling data demonstrating the impact(s) on the critical path(s), milestone(s) and/or Contract Time.

25.7.3.1.3. Architect’s Initial Decision. The District’s Architect shall issue a written decision regarding the Dispute to the Developer within ten (10) calendar days of receipt of the written Dispute from the Developer.

25.7.3.2. Meet and Confer

25.7.3.2.1. Where There Is No Agreement: If there is no agreement between Developer and the Architect on a Developer’s Dispute, including cases where a Developer’s Proposed Change Order (“PCO”) seeks money, time, and/or any other relief, then within ten (10) calendar days of the date of the District’s written decision in response to Developer’s Dispute or request for Proposed Change Order, Developer shall give written notice of its demand for a meet and confer meeting with District staff. A meet and confer meeting with District staff shall be a condition precedent to Developer seeking any further relief, including a demand for review as indicated below, in connection with the District’s rejection .

25.7.3.2.2. Where There Is Partial Agreement: If Developer and the Architect partially agree on a Developer’s Dispute but do not reach complete agreement, then the Architect shall issue a written decision or prepare a Change Order, if applicable, for the issues and/or amounts agreed to. For those issues not agreed to, Developer shall give written notice of its demand for a meet and confer meeting with District staff. A meet and confer meeting with District staff shall be a condition precedent to Developer seeking any further relief, including a demand for review as indicated below, in connection with the District’s rejection.

25.7.3.2.3. District and Developer shall schedule the meet and confer meeting as soon as reasonably possible after Developer’s written notice of its demand for a meet and confer meeting.

25.7.3.3. Developer’s Demand for Review of Dispute

25.7.3.3.1. Developer shall give in writing a demand for review to the Construction Manager with copy to the Architect, within ten (10) calendar days of the meet and confer meeting. The written demand for review shall include copies of all documentation the Developer intends to rely upon in substantiating Developer’s position regarding the Dispute, including any supplementary documentation the Developer deems appropriate for the District’s consideration.

25.7.3.3.1.1. Construction Manager’s Written Decision. The Construction Manager will review the Dispute and issue a written decision to Developer and Architect within thirty (30) calendar days from the date the demand for review and supporting documentation are received. The Construction Manager has the option to meet with Developer, or with Developer and any other party, before issuing a decision.

25.7.3.3.1.2. If no decision is issued within thirty (30) days after the demand for review, the District will be deemed to have rejected Developer’s Dispute in its entirety, and Developer shall proceed with the Claim Resolution Process below.

25.7.3.3.1.3. If the Construction Manager’s decision completely resolves the Dispute, the District will prepare and process a Change Order, if applicable, or proceed accordingly.

25.7.3.3.1.4. If the Construction Manager rejects the Dispute in whole or in part or does not issue a timely written response, and if Developer ever intends to seek relief regarding the unresolved issues of the Dispute, then Developer shall proceed with the Claim Resolution Process below.

25.7.3.3.1.5. Developer's costs incurred in seeking relief under this Disputes and Claims section are not recoverable from District.

25.7.4. Claim Resolution Process.

25.7.4.1. If a Dispute has not been resolved during the Dispute Resolution Process, the Developer shall submit within thirty (30) days a Claim along with the required detailed documentation for the District's consideration.

25.7.4.2. The Developer shall furnish three (3) certified copies of the required Claim documentation. The Claim documentation shall be complete when furnished. The evaluation of the Developer's Claim will be based upon District records and the Claim documents furnished by the Developer.

25.7.4.3. Claim documentation shall conform to generally accepted accounting principles and shall be in the following format:

25.7.4.3.1. General Introduction

25.7.4.3.2. General Background Discussion

25.7.4.3.3. Index of Issues (listed numerically)

25.7.4.3.4. For each issue, provide the following information and begin each issue on a new page:

25.7.4.3.4.1. Background

25.7.4.3.4.2. Chronology

25.7.4.3.4.3. Developer's position including all reason(s) for District's potential liability

25.7.4.3.4.4. Supporting documentation of merit or entitlement

25.7.4.3.4.5. Supporting documentation of damages

25.7.4.3.5. All critical path method schedules, both as-planned, monthly updates, schedule revisions, and as-build along with the computer disks of all schedules related to the Claim.

25.7.4.3.6. Productivity exhibits (if appropriate)

25.7.4.3.7. Summary of Damages for each issue

25.7.4.4. Supporting documentation of merit for each issue shall be cited by reference, photocopies, or explanation. Supporting documentation may include, but shall not be limited to the Contract Documents; correspondence; conference notes; shop drawings and submittals; shop drawing logs; survey books; inspection reports; delivery schedules; test reports; daily reports; subcontracts; fragmentary CPM schedules or time impact analyses; photographs; technical reports; requests for information; field instructions; and all other related records necessary to support the Developer's Claim.

25.7.4.5. Supporting documentation of damages for each issue shall be cited, photocopied, or explained. Supporting documentation may include, but shall not be limited to, any or all documents related to the preparation and submission of the proposal; certified, detailed labor records, including labor distribution reports; material and equipment procurement records; construction equipment ownership costs records or rental records; job cost reports; Subcontractor or vendor files and cost records; service cost records; purchase orders; invoices; Project as-planned and as-built cost records; general ledger records; variance reports; accounting adjustment records; and any other accounting materials necessary to support the Developer's Claim.

25.7.4.6. Developer shall include in its Claim documents all issue items and information that Developer contends are part of its Claim. Issues not included in the Claim documents shall not be considered.

25.7.4.7. Each copy of the Claim documentation shall be certified by a responsible officer of the Developer in accordance with the requirements of the Contract Documents.

25.7.4.8. The District may withhold from a progress payment and/or the final payment an amount not to exceed 150 percent of the disputed amount. The District may, but is not obligated to, notify the Surety and request the Surety's assistance in resolving the controversy.

25.7.4.9. District's Written Decision. The District Representative will render a written decision to the Developer relative to the Claim. The District's written decision shall be final and binding on the party(ies) but subject to mediation.

25.7.4.10. Mediation. Within thirty (30) days after the District renders its written decision, the Developer may request that the parties submit the Dispute to mediation. Absent a request for mediation, the District's written decision is final and binding on the parties.

25.7.4.11. Litigation. If, after a mediation as indicated above, the parties have not resolved the Dispute, the receiving party's decision made pursuant to mediation will be conclusive and binding regarding the Dispute unless the submitting party commences an action in a court of competent jurisdiction to contest such decision within ninety (90) days following the conclusion of such mediation or one (1) year following the accrual of the cause of action, whichever is later.

25.7.5. The District shall be entitled to remedy any false claims, as defined in California Government Code section 12650 *et seq.*, made to the District by the Developer or any Subcontractor under the standards set forth in Government Code section 12650 *et seq.* Any Developer or Subcontractor who submits a false claim shall be liable to the District for three times the amount of damages that the District sustains because of the false claim. A Developer or Subcontractor who submits a false claim shall also be liable to the District for (a) the costs, including attorney fees, of a civil action brought to recover any of those penalties or damages, and (b) a civil penalty of up to \$10,000 for each false claim.

25.8. Documentation of Resolution. If a Claim is resolved, the District shall determine if that resolution shall be documented in an Agreement and Release of Any and All Claims form or other document, as appropriate.

25.9. Dispute and Claim Resolution Process – Non-Applicability. The procedures and provisions in this Disputes and Claims section shall not apply to:

25.9.1. District's determination of what Work is or will be constructed, or whether the Work complies with the Contract Documents for purposes of accepting the Work;

25.9.2. District’s rights and obligations as a public entity, such as, but without limitation, the revocation of pre-qualified or qualified status, barring a contractor from District contracts, the imposition of penalties or forfeitures prescribed by statute or regulation; provided, however, that penalties imposed against a public entity by statutes such as Section 7107, shall be subject to the mandatory dispute resolution provisions of this Disputes and Claims section and the Contract;

25.9.3. Personal injury, wrongful death or property damage claims;

25.9.4. Latent defect or breach of warranty or guarantee to repair;

25.9.5. Stop notices or stop payment notices;

25.9.6. Any other District rights as set forth herein;

25.9.7. Disputes arising out of or pertaining to an LCP (if applicable);

26. LABOR, WAGE & HOUR, APPRENTICE AND RELATED PROVISIONS

26.1. Labor Compliance Program

If the District, the District’s designee and/or the California Department of Industrial Relations is operating a labor compliance program (“LCP”) on this Project, Developer specifically acknowledges and understands that it shall perform the Work of this Agreement while complying with all the applicable provisions of the LCP, including, without limitation, the requirement that the Developer and all of its Subcontractors shall timely submit complete and accurate certified payroll records with each application for payment, or the District cannot issue payment. The following provisions indicated herein are specifically understood to be part of the LCP. If there is no LCP on this Project, the Developer and all of its subcontractor(s) are still required to comply with all applicable provisions of the Labor Code and the obligation to provide certified payroll records as indicated herein.

26.2. Wage Rates, Travel and Subsistence

26.2.1. Pursuant to the provisions of article 2 (commencing at section 1770), chapter 1, part 7, division 2, of the Labor Code of California, the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work in the locality in which this public work is to be performed for each craft, classification, or type of worker needed to execute this Contract are on file at the District’s principal office and copies will be made available to any interested party on request. Developer shall obtain and post a copy of these wage rates at the job site.

26.2.2. Holiday and overtime work, when permitted by law, shall be paid for at a rate of at least one and one-half times the above specified rate of per diem wages, unless otherwise specified. The holidays upon which those rates shall be paid need not be specified by the District, but shall be all holidays recognized in the applicable collective bargaining agreement. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code.

26.2.3. Developer shall pay and shall cause to be paid each worker engaged in Work on the Project not less than the general prevailing rate of per diem wages determined by the Director of the Department of Industrial Relations (“DIR”) (“Director”), regardless of any contractual relationship which may be alleged to exist between Developer or any Subcontractor and such workers.

26.2.4. If during the period this bid is required to remain open, the Director determines that there has been a change in any prevailing rate of per diem wages in the locality in which the Work under the Contract is to be performed, such change shall not alter the wage rates in the Notice to Bidders or the Contract subsequently awarded.

26.2.5. Pursuant to Labor Code section 1775, Developer shall, as a penalty to District, forfeit the statutory amount, (currently not to exceed two hundred dollars (\$200) for each calendar day, or portion thereof), for each worker paid less than the prevailing rates, as determined by the District and/or the Director, for the work or craft in which that worker is employed for any public work done under Contract by Developer or by any Subcontractor under it.

26.2.5.1. The amount of the penalty shall not be less than forty dollars (\$40) for each calendar day, or portion thereof, unless the failure of Developer was a good faith mistake and, if so, the error was promptly and voluntarily corrected when brought to the attention of Developer.

26.2.5.2. The amount of the penalty shall not be less than eighty dollars (\$80) for each calendar day or portion thereof, if Developer has been assessed penalties within the previous three (3) years for failing to meet Developer's prevailing wage obligations on a separate contract, unless those penalties were subsequently withdrawn or overturned.

26.2.5.3. The amount of the penalty may not be less than one hundred twenty dollars (\$120) for each calendar day, or portion thereof, if the Labor Commissioner determines the Developer willfully violated Labor Code section 1775.

26.2.5.4. The difference between such prevailing wage rates and the amount paid to each worker for each calendar day or portion thereof for which each worker was paid less than the prevailing wage rate, shall be paid to each worker by Developer.

26.2.6. Any worker employed to perform Work on the Project, which Work is not covered by any classification listed in the general prevailing wage rate of per diem wages determined by the Director, shall be paid not less than the minimum rate of wages specified therein for the classification which most nearly corresponds to Work to be performed by him, and such minimum wage rate shall be retroactive to time of initial employment of such person in such classification.

26.2.7. Pursuant to Labor Code section 1773.1, per diem wages are deemed to include employer payments for health and welfare, pension, vacation, travel time, subsistence pay, and apprenticeship or other training programs authorized by section 3093, and similar purposes.

26.2.8. Developer shall post at appropriate conspicuous points on the Site of Project, a schedule showing all determined minimum wage rates and all authorized deductions, if any, from unpaid wages actually earned. In addition, Developer shall post a sign-in log for all workers and visitors to the Site, a list of all subcontractors of any tier on the Site, and the required Equal Employment Opportunity poster(s).

26.3. Hours of Work

26.3.1. As provided in article 3 (commencing at section 1810), chapter 1, part 7, division 2, of the Labor Code, eight (8) hours of labor shall constitute a legal days work. The time of service of any worker employed at any time by Developer or by any Subcontractor on any subcontract under this Contract upon the Work or upon any part of the Work contemplated by this Contract shall be limited and restricted by Developer to eight (8) hours per day, and forty (40) hours during any one week, except as hereinafter provided. Notwithstanding the provisions hereinabove set forth, Work performed by employees of Developer in excess of eight (8) hours per day and forty (40) hours during any one week, shall be

permitted upon this public work upon compensation for all hours worked in excess of eight (8) hours per day at not less than one and one-half times the basic rate of pay.

26.3.2. Developer shall keep and shall cause each Subcontractor to keep an accurate record showing the name of and actual hours worked each calendar day and each calendar week by each worker employed by Developer in connection with the Work or any part of the Work contemplated by this Contract. The record shall be kept open at all reasonable hours to the inspection of District and to the Division of Labor Standards Enforcement of the DIR.

26.3.3. Pursuant to Labor Code section 1813, Developer shall as a penalty to the District forfeit the statutory amount (believed by the District to be currently one hundred dollars (\$100)) for each worker employed in the execution of this Contract by Developer or by any Subcontractor for each calendar day during which such worker is required or permitted to work more than eight (8) hours in any one calendar day and forty (40) hours in any one calendar week in violation of the provisions of article 3 (commencing at section 1810), chapter 1, part 7, division 2, of the Labor Code.

26.3.4. Any Work necessary to be performed after regular working hours, or on Sundays or other holidays shall be performed without additional expense to the District.

26.4. Payroll Records

26.4.1. If the District, the District's designee and/or the California Department of Industrial Relations has an LCP in force on this Project then, pursuant to the provisions of section 1776 of the Labor Code, notice is hereby given that Developer shall prepare and provide to the District and/or the LCP and shall cause each Subcontractor performing any portion of the Work under this Contract to prepare and provide to the District and/or the LCP an accurate and certified payroll record ("CPR(s)"), showing the name, address, social security number, work classification, straight time, and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee employed by the Developer and/or each Subcontractor in connection with the Work.

26.4.1.1. In addition to any other requirements under Labor Code section 1770, et seq., the CPRs enumerated hereunder shall be certified and shall be provided to the District on a weekly basis. The CPRs from the Developer and each Subcontractor for each week shall be provided on or before Wednesday of the week following the week covered by the CPRs. District shall not make any payment to Developer until:

26.4.1.1.1. Developer and/or its Subcontractor(s) provide CPRs acceptable to the District, and

26.4.1.1.2. The District is given sufficient time to review and/or audit the CPRs to determine their acceptability. Any delay in Developer and/or its Subcontractor(s) providing CPRs to the District in a timely manner will directly delay the District's review and/or audit of the CPRs and Developer's payment.

26.4.2. Whether or not there is an LCP in force on this Project, all CPRs shall be available for inspection at all reasonable hours at the principal office of Developer on the following basis:

26.4.2.1. A certified copy of an employee's CPR shall be made available for inspection or furnished to the employee or his/her authorized representative on request.

26.4.2.2. CPRs shall be made available for inspection or furnished upon request to a representative of District, Division of Labor Standards Enforcement, Division of Apprenticeship Standards, and/or the Department of Industrial Relations.

26.4.2.3. CPRs shall be made available upon request by the public for inspection or copies thereof made; provided, however, that a request by the public shall be made through either the District, Division of Apprenticeship Standards, or the Division of Labor Standards Enforcement. If the requested CPRs have not been provided pursuant to the provisions herein, the requesting party shall, prior to being provided the records reimburse the costs of preparation by Developer, Subcontractors, and the entity through which the request was made. The public shall not be given access to the records at the principal office of Developer.

26.4.3. The form of certification for the CPRs shall be as follows:

I, _____ (Name-Print), the undersigned, am the _____ (Position in business) with the authority to act for and on behalf of _____ (Name of business and/or Developer), certify under penalty of perjury that the records or copies thereof submitted and consisting of _____ (Description, number of pages) are the originals or true, full, and correct copies of the originals which depict the payroll record(s) of actual disbursements by way of cash, check, or whatever form to the individual or individual named, and (b) we have complied with the requirements of sections 1771, 1811, and 1815 for any work performed by our employees on the Project.

Date: _____ Signature: _____
(Section 16401 of the California Code of Regulations)

26.4.4. Each Developer shall file a certified copy of the CPRs with the entity that requested the records within ten (10) days after receipt of a written request.

26.4.5. Any copy of records made available for inspection as copies and furnished upon request to the public or any public agency by District, Division of Apprenticeship Standards, or Division of Labor Standards Enforcement shall be marked or obliterated in such a manner as to prevent disclosure of an individual's name, address, and social security number. The name and address of Developer awarded Contract or performing Contract shall not be marked or obliterated.

26.4.6. Developer shall inform District of the location of the records enumerated hereunder, including the street address, city, and county, and shall, within five (5) working days, provide a notice of change of location and address.

26.4.7. In the event of noncompliance with the requirements of this section, Developer shall have ten (10) days in which to comply subsequent to receipt of written notice specifying in what respects Developer must comply with this section. Should noncompliance still be evident after the ten (10) day period, Developer shall, as a penalty to District, forfeit one hundred dollars (\$100) for each calendar day, or portion thereof, for each worker, until strict compliance is effectuated. Upon the request of Division of Apprenticeship Standards or Division of Labor Standards Enforcement, these penalties shall be withheld from progress payments then due.

26.4.8. It shall be the responsibility of Developer to ensure compliance with the provisions of Labor Code section 1776.

26.5. Apprentices

26.5.1. Developer acknowledges and agrees that, if this Contract involves a dollar amount greater than or a number of working days greater than that specified in Labor Code section 1777.5, then this Contract is governed by the provisions of Labor Code Section 1777.5. It shall be the responsibility of Developer to

ensure compliance with this Article and with Labor Code section 1777.5 for all apprenticeship occupations.

26.5.2. Apprentices of any crafts or trades may be employed and, when required by Labor Code section 1777.5, shall be employed provided they are properly registered in full compliance with the provisions of the Labor Code.

26.5.3. Every such apprentice shall be paid the standard wage paid to apprentices under the regulations of the craft or trade at which he/she is employed, and shall be employed only at the work of the craft or trade to which she/he is registered.

26.5.4. Only apprentices, as defined in section 3077 of the Labor Code, who are in training under apprenticeship standards and written apprentice agreements under chapter 4 (commencing at section 3070), division 3, of the Labor Code, are eligible to be employed. The employment and training of each apprentice shall be in accordance with the provisions of the apprenticeship standards and apprentice agreements under which he/she is training.

26.5.5. Pursuant to Labor Code section 1777.5, if that section applies to this Contract as indicated above, Developer and any Subcontractors employing workers in any apprenticeable craft or trade in performing any Work under this Contract shall apply to the applicable joint apprenticeship committee for a certificate approving the Developer or Subcontractor under the applicable apprenticeship standards and fixing the ratio of apprentices to journeymen employed in performing the Work.

26.5.6. Pursuant to Labor Code section 1777.5, if that section applies to this Contract as indicated above, Developer and any Subcontractor may be required to make contributions to the apprenticeship program.

26.5.7. If Developer or Subcontractor willfully fails to comply with Labor Code section 1777.5, then, upon a determination of noncompliance by the Administrator of Apprenticeship, it shall:

26.5.7.1. Be denied the right to bid on any subsequent project for one (1) year from the date of such determination;

26.5.7.2. Forfeit as a penalty to District the full amount as stated in Labor Code section 1777.7. Interpretation and enforcement of these provisions shall be in accordance with the rules and procedures of the California Apprenticeship Council and under the authority of the Chief of the Division of Apprenticeship Standards.

26.5.8. Developer and all Subcontractors shall comply with Labor Code section 1777.6, which section forbids certain discriminatory practices in the employment of apprentices.

26.5.9. Developer shall become fully acquainted with the law regarding apprentices prior to commencement of the Work. Special attention is directed to sections 1777.5, 1777.6, and 1777.7 of the Labor Code, and title 8, California Code of Regulations, section 200 et seq. Questions may be directed to the State Division of Apprenticeship Standards, 455 Golden Gate Avenue, San Francisco, California 94102.

26.5.10. Developer shall ensure compliance with all certification requirements for all workers on the Project including, without limitation, the requirements for electrician certification in Labor Code section 3099, et seq.

26.6. Non-Discrimination

26.6.1. Developer herein agrees not to discriminate in its recruiting, hiring, promotion, demotion, or termination practices on the basis of race, religious creed, national origin, ancestry, sex, age, or physical handicap in the performance of this Contract and to comply with the provisions of the California Fair Employment and Housing Act as set forth in part 2.8 of division 3 of the California Government Code, commencing at section 12900; the Federal Civil Rights Act of 1964, as set forth in Public Law 88-352, and all amendments thereto; Executive Order 11246, and all administrative rules and regulations found to be applicable to Developer and Subcontractor.

26.6.2. Special requirements for Federally Assisted Construction Contracts: During the performance of this Contract, Developer agrees to incorporate in all subcontracts the provisions set forth in Chapter 60-1.4(b) of Title 41 published in Volume 33 No. 104 of the Federal Register dated May 28, 1968.

26.7. Labor First Aid

Developer shall maintain emergency first aid treatment for Developer's workers on the Project which complies with the Federal Occupational Safety and Health Act of 1970 (29 U.S.C. § 651 et seq.) and the California Occupational Safety and Health Act of 1973 (8 Cal. Code of Regs., §1 et seq.).

27. MISCELLANEOUS

27.1. Assignment of Antitrust Actions

Although this project may not have been formally bid, the following provisions may apply:

27.1.1. Section 7103.5(b) of the Public Contract Code states:

In entering into a public works contract or subcontract to supply goods, services, or materials pursuant to a public works contract, the Developer or subcontractor offers and agrees to assign to the awarding body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. § 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, made and become effective at the time the awarding body tenders final payment to the Developer, without further acknowledgment by the Parties.

27.1.2. Section 4552 of the Government Code states:

In submitting a bid to a public purchasing body, the bidder offers and agrees that if the bid is accepted, it will assign to the purchasing body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. § 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, materials, or services by the bidder for sale to the purchasing body pursuant to the bid. Such assignment shall be made and become effective at the time the purchasing body tenders final payment to the bidder.

27.1.3. Section 4553 of the Government Code states:

If an awarding body or public purchasing body receives, either through judgment or settlement, a monetary recovery for a cause of action assigned under this chapter, the assignor shall be entitled to receive reimbursement for actual legal costs incurred and may, upon demand, recover from the public body any portion of the recovery, including treble damages, attributable to overcharges that were paid by the assignor but were not paid by the public body as part of the bid price, less the expenses incurred in obtaining that portion of the recovery.

27.1.4. Section 4554 of the Government Code states:

Upon demand in writing by the assignor, the assignee shall, within one year from such demand, reassign the cause of action assigned under this part if the assignor has been or may have been injured by the violation of law for which the cause of action arose and (a) the assignee has not been injured thereby, or (b) the assignee declines to file a court action for the cause of action.

27.1.5. Under this Article, “public purchasing body” is District and “bidder” is Developer.

27.2. Excise Taxes

If, under Federal Excise Tax Law, any transaction hereunder constitutes a sale on which a Federal Excise Tax is imposed and the sale is exempt from such Federal Excise Tax because it is a sale to a State or Local Government for its exclusive use, District, upon request, will execute documents necessary to show (1) that District is a political subdivision of the State for the purposes of such exemption, and (2) that the sale is for the exclusive use of District. No Federal Excise Tax for such materials shall be included in any Guaranteed Project Cost.

27.3. Taxes

Guaranteed Project Cost is to include any and all applicable sales taxes or other taxes that may be due in accordance with section 7051 of the Revenue and Taxation Code; Regulation 1521 of the State Board of Equalization or any other tax code that may be applicable.

27.4. Shipments

All shipments must be F.O.B. destination to Site or sites, as indicated in the Contract Documents. There must be no charge for containers, packing, unpacking, drayage, or insurance. The total Guaranteed Project Cost shall be all inclusive (including sales tax) and no additional costs of any type will be considered.

END OF DOCUMENT

EXHIBIT E

MEMORANDUM OF COMMENCEMENT DATE

[TO BE ENTERED INTO AFTER CONSTRUCTION IS COMPLETE TO COMMENCE THE LEASE TERM]

This MEMORANDUM OF COMMENCEMENT DATE is dated 12.30, 2014, and is made by and between **Taber Construction, Inc.** (“Developer”), as Lessor, and the **Mt. Diablo Unified School District** (“District”), as Lessee.

1. Developer and District have previously entered into a Master Facilities Lease dated as of November 13, 2013, (the “Lease”) for the leasing by Developer to District of the Project Sites and Project at the following locations:

Ayers Elementary School	5120 MYRTLE DR	CONCORD	CA 94521
Bancroft Elementary School	2200 PARISH DR	WALNUT CREEK	CA 94596
Bel Air Elementary School	663 CANAL RD	BAY POINT	CA 94565
Cambridge Elementary School	1135 LACEY LN	CONCORD	CA 94520
Clayton Valley Charter High School	1101 ALBERTA WAY	CONCORD	CA 94521
College Park High School	201 VIKING DR	PLEASANT HILL	CA 94523
Concord High School	4200 CONCORD BLVD	CONCORD	CA 94521
Delta View Elementary School	2916 RIO VERDE	BAY POINT	CA 94565
Diablo View Middle School	300 DIABLO VIEW LN	CLAYTON	CA 94517
Eagle Peak Montessori School	800 HUTCHINSON RD	WALNUT CREEK	CA 94598
El Dorado Middle School	1750 WEST ST	CONCORD	CA 94521
El Monte Elementary School	1400 DINA DR	CONCORD	CA 94518
Fair Oaks Elementary School	2400 LISA LN	PLEASANT HILL	CA 94523
Foothill Middle School	2775 CEDRO LN	WALNUT CREEK	CA 94598
Glenbrook Middle School	2351 OLIVERA RD	CONCORD	CA 94520
Gregory Gardens Elementary School	1 CORRITONE CT	PLEASANT HILL	CA 94523
Hidden Valley Elementary School	500 GLACIER DR	MARTINEZ	CA 94553
Highlands Elementary School	1326 PENNSYLVANIA BLVD	CONCORD	CA 94521
Holbrook Elementary School	3333 RONALD WAY	CONCORD	CA 94519
Loma Vista Adult Center	1266 SAN CARLOS AVE	CONCORD	CA 94518
Meadow Homes Elementary School	1371 DETROIT AVE	CONCORD	CA 94518
Monte Gardens Elementary School	3841 LARKSPUR DR	CONCORD	CA 94519
Mountain View Elementary School	1705 THORNWOOD DR	CONCORD	CA 94521
Mt Diablo Elementary School	5880 MT ZION DR	CLAYTON	CA 94517
Mt Diablo High School	2450 GRANT ST	CONCORD	CA 94520
Northgate High School	425 CASTLE ROCK RD	WALNUT CREEK	CA 94598
Oak Grove Middle School	2050 MINERT RD	CONCORD	CA 94518
Olympic High School	2730 SALVIO ST	CONCORD	CA 94519
Pine Hollow Middle School	5522 PINE HOLLOW RD	CONCORD	CA 94521
Pleasant Hill Elementary School	2097 OAK PARK BLVD	PLEASANT HILL	CA 94523
Pleasant Hill Middle School	ONE SANTA BARBARA RD	PLEASANT HILL	CA 94523
Rio Vista Elementary School	611 PACIFICA AVE	BAY POINT	CA 94565

Riverview Middle School	205 PACIFICA AVE	BAY POINT	CA 94565
Sequoia Elementary School	277 BOYD RD	PLEASANT HILL	CA 94523
Sequoia Middle School	265 BOYD RD	PLEASANT HILL	CA 94523
Shadelands Special Ed School	1860 SILVERWOOD DR	CONCORD	CA 94519
Shore Acres Elementary School	351 MARINA RD	BAY POINT	CA 94565
Silverwood Elementary School	1649 CLAYCORD AVE	CONCORD	CA 94521
Strandwood Elementary School	416 GLADYS DR	PLEASANT HILL	CA 94523
Sun Terrace Elementary School	2448 FLOYD LN	CONCORD	CA 94520
Sunrise Special Ed School	1861 Silverwood Drive	CONCORD	CA 94519
Valhalla Elementary School	530 KIKI DR	PLEASANT HILL	CA 94523
Valle Verde Elementary School	3275 PEACHWILLOW LN	WALNUT CREEK	CA 94598
Valley View Middle School	181 VIKING DR	PLEASANT HILL	CA 94523
Walnut Acres Elementary School	180 CEREZO DR	WALNUT CREEK	CA 94596
Westwood Elementary School	1748 WEST ST	CONCORD	CA 94521
Willow Creek Center	1026 MOHR LN	CONCORD	CA 94518
Woodside Elementary School	761 SAN SIMEON DR	CONCORD	CA 94518
Wren Avenue Elementary School	3339 WREN AVE	CONCORD	CA 94519
Ygnacio Valley Elementary School	2217 CHALOMAR RD	CONCORD	CA 94518
Ygnacio Valley High School	755 OAK GROVE RD	CONCORD	CA 94518
Alliance	2730 SALVIO ST	CONCORD	CA 94519
Crossroads NSHS	2730 SALVIO ST	CONCORD	CA 94519
Gateway NSHS	205 PACIFICA AVE	BAY POINT	CA 94565
Nueva Vista NSHS	1101 ALBERTA WAY	CONCORD	CA 94521
Prospect NSHS	ONE SANTA BARBARA RD	PLEASANT HILL	CA 94523
Summit NSHS	4200 CONCORD BLVD	CONCORD	CA 94521
Administration- Dent Center	1936 CARLOTTA DR	CONCORD	CA 94519
Diablo Day School	1026 MOHR LN	CONCORD	CA 94518
Maintenance and Operations	1480 GASOLINE ALLEY	CONCORD	CA 94520
Pleasant Hill Ed Center	ONE SANTA BARBARA RD	PLEASANT HILL	CA 94523
Purchasing/Warehouse	2326 BISSO LANE	CONCORD	CA 94520
Transportation	1490 GASOLINE ALLEY	CONCORD	CA 94520

2. District hereby confirms the following:
 - A. That all construction of the Project required to be performed pursuant to the Master Facilities Lease has been completed by Developer in all respects;
1. That District has accepted and entered into possession of the Project and now occupies same; and
 - B. That the term of the Master Facilities Lease commenced on November 13, 2013, and will expire at 11:59 P.M. on (Board Award of NOC), 2014.

THIS MEMORANDUM OF COMMENCEMENT DATE IS ACCEPTED AND AGREED on the date indicated below:

Dated: _____, 20_____

Dated: _____, 20_____

Mt. Diablo Unified School District

Taber Construction, Inc.

By: _____

By: _____

Print Name: _____

Print Name: _____

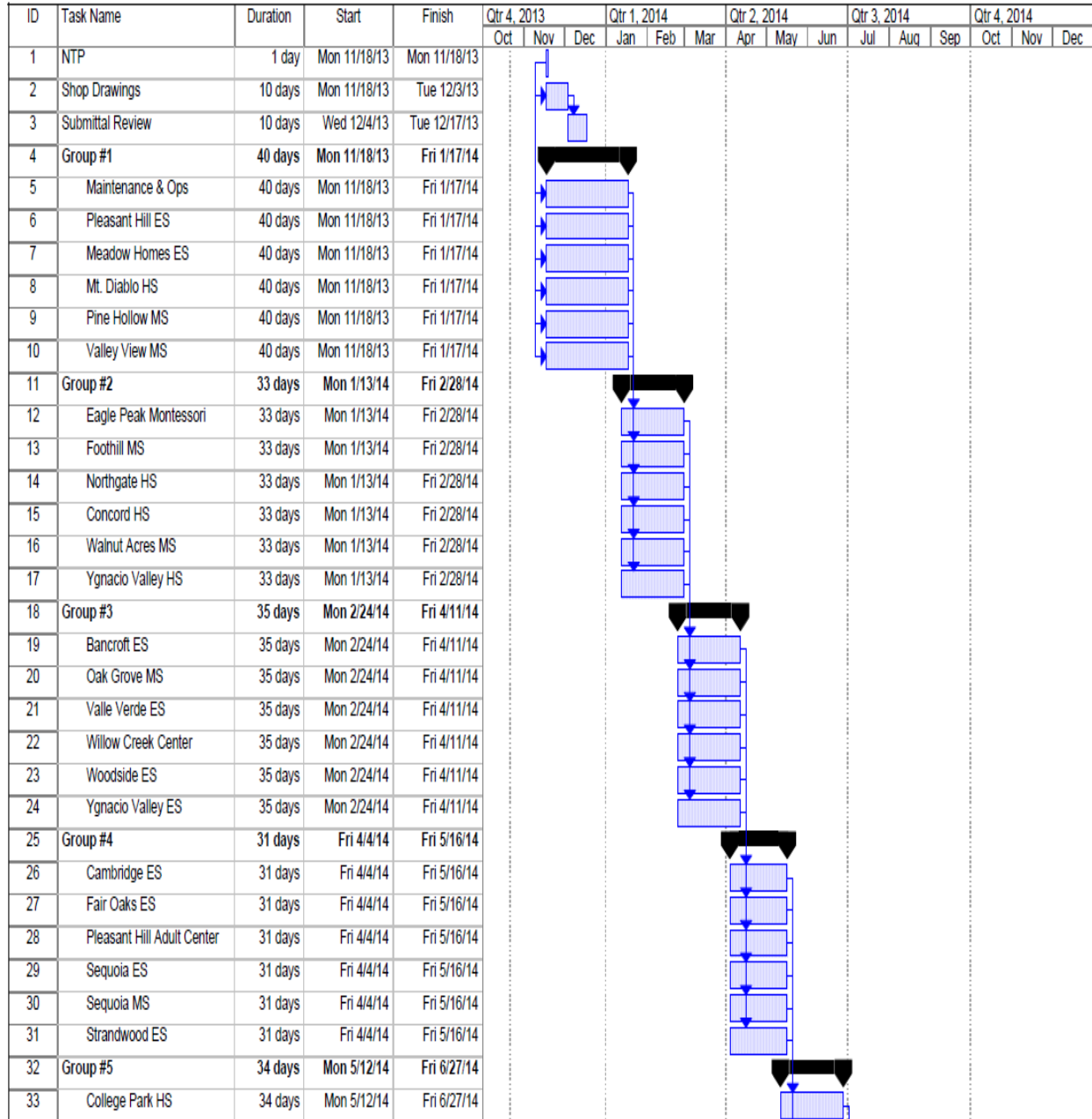
Print Title: _____ Superintendent _____

Print Title: _____

**EXHIBITS F-1
CONSTRUCTION SCHEDULES**

Attached is a detailed Project Construction Schedule with duration no longer than the Contract Time, and with specific milestones that Developer shall meet for each of the Project Sites.

Attachment "F-1"



ID	Task Name	Duration	Start	Finish	Qtr 4, 2013			Qtr 1, 2014			Qtr 2, 2014			Qtr 3, 2014			Qtr 4, 2014		
					Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
34	El Monte ES	34 days	Mon 5/12/14	Fri 6/27/14															
35	Gregory Gardens ES	34 days	Mon 5/12/14	Fri 6/27/14															
36	Hidden Valley ES	34 days	Mon 5/12/14	Fri 6/27/14															
37	Loma Vista Adult Center	34 days	Mon 5/12/14	Fri 6/27/14															
38	Valhalla ES	34 days	Mon 5/12/14	Fri 6/27/14															
39	Group #6	34 days	Mon 6/23/14	Fri 8/8/14															
40	Glenbrook MS	34 days	Mon 6/23/14	Fri 8/8/14															
41	Holbrook ES	34 days	Mon 6/23/14	Fri 8/8/14															
42	Olympic HS	34 days	Mon 6/23/14	Fri 8/8/14															
43	Sun Terrace ES	34 days	Mon 6/23/14	Fri 8/8/14															
44	Sunrise ES	34 days	Mon 6/23/14	Fri 8/8/14															
45	Wren Avenue ES	34 days	Mon 6/23/14	Fri 8/8/14															
46	Group #7	35 days	Mon 8/4/14	Fri 9/19/14															
47	James Dent Admin	35 days	Mon 8/4/14	Fri 9/19/14															
48	El Dorado MS	35 days	Mon 8/4/14	Fri 9/19/14															
49	Monte Gardens ES	35 days	Mon 8/4/14	Fri 9/19/14															
50	Mountain View ES	35 days	Mon 8/4/14	Fri 9/19/14															
51	Shadelands Special Ed	35 days	Mon 8/4/14	Fri 9/19/14															
52	Westwood ES	35 days	Mon 8/4/14	Fri 9/19/14															
53	Group #8	29 days	Mon 9/15/14	Fri 10/24/14															
54	Ayers ES	29 days	Mon 9/15/14	Fri 10/24/14															
55	Clayton Valley HS	29 days	Mon 9/15/14	Fri 10/24/14															
56	Diablo View MS	29 days	Mon 9/15/14	Fri 10/24/14															
57	Highlands ES	29 days	Mon 9/15/14	Fri 10/24/14															
58	Mt. Dialo ES	29 days	Mon 9/15/14	Fri 10/24/14															
59	Silverwood ES	29 days	Mon 9/15/14	Fri 10/24/14															
60	Group #9	29 days	Mon 10/20/14	Fri 11/28/14															
61	Bel Air ES	29 days	Mon 10/20/14	Fri 11/28/14															
62	Delta View ES	29 days	Mon 10/20/14	Fri 11/28/14															
63	Rio Vista ES	29 days	Mon 10/20/14	Fri 11/28/14															
64	Riverview MS	29 days	Mon 10/20/14	Fri 11/28/14															
65	Shore Acres ES	29 days	Mon 10/20/14	Fri 11/28/14															

EXHIBITS G-1

SCHEDULES OF VALUES

Attached is a detailed Schedule of Values (Provided by Developer) that complies with the requirements of the Construction Provisions (Exhibit "D") and that has been approved by the District.



**Mt. Diablo Unified School District District Wide Security Improvements
Post PSA Proposal**

Site	Original Per Site Total	Value Engineering Summary	Revised Per Site SubTotal	Performance and Payment Bonds (0.006%)	General Liability Insurance (0.80%)	Contractor's Fee (5%)	Total Revised GMP	District Contingency (3%)	Grand Total
Ayers Elementary School	104,483.19	(11,821.00)	92,662.19	555.97	745.75	4,698.20	98,662.10	2,959.86	101,621.97
Bancroft Elementary School	104,976.84	(7,900.00)	97,076.84	582.46	781.27	4,922.03	103,362.60	3,100.88	106,463.48
Bel Air Elementary School	146,676.93	(18,337.00)	128,339.93	770.04	1,032.88	6,507.14	136,649.99	4,099.50	140,749.49
Cambridge Elementary School	139,963.52	(24,821.00)	115,142.52	690.86	926.67	5,838.00	122,598.04	3,677.94	126,275.99
Clayton Valley High School	302,961.95	(17,692.00)	285,269.95	1,711.62	2,295.85	14,463.87	303,741.29	9,112.24	312,853.53
College Park High School	320,223.30	(36,748.00)	283,475.30	1,700.85	2,281.41	14,372.88	301,830.44	9,054.91	310,885.35
Concord High School	317,421.59	(37,406.00)	280,015.59	1,680.09	2,253.57	14,197.46	298,146.71	8,944.40	307,091.11
Delta View Elementary School	100,843.54	(8,244.00)	92,599.54	555.60	745.24	4,695.02	98,595.40	2,957.86	101,553.26
James Dent Administration Center	152,494.03	(25,187.00)	127,307.03	763.84	1,024.57	6,454.77	135,550.21	4,066.51	139,616.72
Diablo View Middle School	203,578.62	(31,468.00)	172,110.62	1,032.66	1,385.15	8,726.42	183,254.85	5,497.65	188,752.50
Eagle Peak Mintessori School	90,676.48	(17,556.00)	73,120.48	438.72	588.47	3,707.38	77,855.06	2,335.65	80,190.71
El Dorado Middle School	220,299.81	(26,242.00)	194,057.81	1,164.35	1,561.78	9,839.20	206,623.13	6,198.69	212,821.82
El Monte Elementary School	143,286.58	(33,508.00)	109,778.58	658.67	883.50	5,566.04	116,886.79	3,506.60	120,393.39
Fair Oaks Elementary School	129,996.28	(22,246.00)	107,750.28	646.51	867.19	5,463.30	114,729.28	3,441.88	118,171.16
Foothill Middle School	180,130.18	(14,108.00)	166,022.18	996.13	1,336.15	8,417.72	176,772.18	5,303.17	182,075.35
Glenbrook Middle School	170,432.06	(14,322.00)	156,110.06	936.66	1,256.37	7,915.15	166,218.25	4,986.55	171,204.80
Gregory Gardens Elementary School	134,789.47	(14,608.00)	120,181.47	721.09	967.22	6,093.49	127,963.27	3,838.90	131,802.17
Hidden Valley Elementary School	187,351.10	(33,102.00)	154,249.10	925.49	1,241.40	7,820.80	164,236.79	4,927.10	169,163.89
Highlands Elementary School	147,555.43	(12,515.00)	135,040.43	810.24	1,086.81	6,846.87	143,784.35	4,313.53	148,097.88
Holbrook Elementary School	106,934.68	(9,124.00)	97,810.68	586.86	787.18	4,959.24	104,143.96	3,124.32	107,268.28
Loma Vista Adult Center	237,270.30	(34,568.00)	202,702.30	1,216.21	1,631.35	10,277.49	215,827.36	6,474.82	222,302.18
Maintenance and Operations	338,593.66	(32,491.00)	306,102.66	1,836.62	2,463.51	15,520.14	325,922.93	9,777.69	335,700.62
Meadow Homes Elementary School	184,628.54	(33,628.00)	151,000.54	906.00	1,215.25	7,656.09	160,777.89	4,823.34	165,601.22
Monte Gardens Elementary School	138,809.00	(22,619.00)	116,190.00	697.14	935.10	5,891.11	123,713.35	3,711.40	127,424.75
Mountain View Elementary School	129,503.63	(19,504.00)	109,999.63	660.00	885.28	5,577.25	117,122.15	3,513.66	120,635.81
Mt Diablo Elementary School	152,590.98	(21,839.00)	130,751.98	784.51	1,052.29	6,629.44	139,218.22	4,176.55	143,394.77
Mt Diablo High School	441,648.28	(22,187.00)	419,461.28	2,516.77	3,375.82	21,267.69	446,621.57	13,398.65	460,020.21
Northgate High School	220,143.50	(31,487.00)	188,656.50	1,131.94	1,518.31	9,565.34	200,872.08	6,026.16	206,898.25
Oak Grove Middle School	209,199.84	(28,665.00)	180,534.84	1,083.21	1,452.94	9,153.55	192,224.54	5,766.74	197,991.28
Olympic High School	175,362.74	(38,853.00)	136,509.74	819.06	1,098.63	6,921.37	145,348.80	4,360.46	149,709.26
Pine Hollow Middle School	184,899.61	(14,315.00)	170,584.61	1,023.51	1,372.86	8,649.05	181,630.03	5,448.90	187,078.93
Pleasant Hill Elementary School	133,302.55	(14,758.00)	118,544.55	711.27	954.05	6,010.49	126,220.36	3,786.61	130,006.97
Pleasant Hill Middle School	241,312.59	(23,933.00)	217,379.59	1,304.28	1,749.47	11,021.67	231,455.01	6,943.65	238,398.66
Rio Vista Elementary School	122,419.24	(9,093.00)	113,326.24	679.96	912.05	5,745.91	120,664.16	3,619.92	124,284.08
Riverview Middle School	284,545.10	(23,415.00)	261,130.10	1,566.78	2,101.58	13,239.92	278,038.38	8,341.15	286,379.53
Sequoia Elementary School	123,278.94	(18,861.00)	104,417.94	626.51	840.36	5,294.24	111,179.04	3,335.37	114,514.41
Sequoia Middle School	156,252.38	(12,121.00)	144,131.38	864.79	1,159.97	7,307.81	153,463.94	4,603.92	158,067.86
Shadelands Center	87,874.78	(14,611.00)	73,263.78	439.58	589.63	3,714.65	78,007.64	2,340.23	80,347.87
Shore Acres Elementary School	117,614.19	(12,254.00)	105,360.19	632.16	847.94	5,342.01	112,182.30	3,365.47	115,547.77
Silverwood Elementary School	138,035.37	(10,464.78)	127,570.59	765.42	1,026.69	6,468.14	135,830.84	4,074.93	139,905.76
Strandwood Elementary School	126,329.94	(10,946.00)	115,383.94	692.30	928.61	5,850.24	122,855.10	3,685.65	126,540.75
Sun Terrace Elementary School	134,952.70	(19,924.00)	115,028.70	690.17	925.75	5,832.23	122,476.85	3,674.31	126,151.16
Sunrise School	76,233.66	(4,164.00)	72,069.66	432.42	580.02	3,654.10	76,736.20	2,302.09	79,038.29
Valhalla Elementary School	151,064.48	(23,211.00)	127,853.48	767.12	1,028.96	6,482.48	136,132.04	4,083.96	140,216.01
Valle Verde Elementary School	118,412.56	(15,168.00)	103,244.56	619.47	830.91	5,234.75	109,929.69	3,297.89	113,227.58
Valley View Middle School	160,294.67	(9,247.00)	151,047.67	906.29	1,215.63	7,658.48	160,828.07	4,824.84	165,652.91
Walnut Acres Elementary School	125,792.76	(17,204.00)	108,588.76	651.53	873.92	5,505.71	115,619.93	3,468.60	119,088.52
Westwood Elementary School	131,117.18	(16,617.00)	114,500.18	687.00	921.50	5,805.43	121,914.11	3,657.42	125,571.54
Transportation and Purchasing*	66,781.00	(6,244.00)	60,537.00	363.22	487.20	3,069.37	64,456.79	1,933.70	66,390.50
Willow Creek Center	79,529.03	(1,367.00)	78,162.03	468.97	629.05	3,963.00	83,223.05	2,496.69	85,719.74
Woodside Elementary School	148,263.77	(18,128.00)	130,135.77	780.81	1,047.33	6,598.20	138,562.11	4,156.86	142,718.98
Wren Avenue Elementary School	134,173.13	(11,326.00)	122,847.13	737.08	988.67	6,228.64	130,801.53	3,924.05	134,725.58
Ygnacio Valley Elementary School	156,528.40	(11,389.00)	145,139.40	870.84	1,168.08	7,358.92	154,537.23	4,636.12	159,173.35
Ygnacio Valley High School	306,351.30	(16,131.00)	290,220.30	1,741.32	2,335.69	14,714.87	309,012.18	9,270.37	318,282.55
Column Totals	9,138,187.38	(1,037,687.78)	8,100,499.60	48,603.00	65,192.82	410,714.77	8,625,010.19	258,750.31	8,883,760.49

EXHIBIT H

AGREEMENT FOR PRELIMINARY SERVICES

See Attached Exhibit H

(63 Pages)

EXHIBIT H
AGREEMENT FOR PRELIMINARY SERVICES
BETWEEN
MOUNT DIABLO UNIFIED SCHOOL DISTRICT (MDUSD)
AND
TABER CONSTRUCTION, Inc.
FOR
MDUSD Project # 1627
DISTRICT WIDE SECURITY SYSTEM UPGRADES

This Agreement for Preliminary Services (“Agreement”) dated as of September 11, 2013 (“Effective Date”), is made and entered into by and between the Mount Diablo Unified School District, a school district duly organized and validly existing under the laws of the State of California (“District”), and Taber Construction, Inc., a California company duly organized and existing under the laws of the State of California, as lessee (“Developer”) (together, the “Parties”), for the purposes of providing preliminary services relating to the construction of the District Wide Security System Upgrades located at various MDUSD sites (“DISTRICT WIDE SECURITY SYSTEM UPGRADES”).

WHEREAS, the Project will be located at multiple MDUSD sites including:

MDUSD Various Sites	Address	City			
Ayers Elementary School	5120 MYRTLE DR	CONCORD	CA	94521	
Bancroft Elementary School	2200 PARISH DR	WALNUT CREEK	CA	94596	
Bel Air Elementary School	663 CANAL RD	BAY POINT	CA	94565	
Cambridge Elementary School	1135 LACEY LN	CONCORD	CA	94520	
Clayton Valley Charter High School	1101 ALBERTA WAY	CONCORD	CA	94521	
College Park High School	201 VIKING DR	PLEASANT HILL	CA	94523	
Concord High School	4200 CONCORD BLVD	CONCORD	CA	94521	
Delta View Elementary School	2916 RIO VERDE	BAY POINT	CA	94565	
Diablo View Middle School	300 DIABLO VIEW LN	CLAYTON	CA	94517	
Eagle Peak Montessori School	800 HUTCHINSON RD	WALNUT CREEK	CA	94598	
El Dorado Middle School	1750 WEST ST	CONCORD	CA	94521	
El Monte Elementary School	1400 DINA DR	CONCORD	CA	94518	
Fair Oaks Elementary School	2400 LISA LN	PLEASANT HILL	CA	94523	
Foothill Middle School	2775 CEDRO LN	WALNUT CREEK	CA	94598	
Glenbrook Middle School	2351 OLIVERA RD	CONCORD	CA	94520	
Gregory Gardens Elementary School	1 CORRITONE CT	PLEASANT HILL	CA	94523	
Hidden Valley Elementary School	500 GLACIER DR	MARTINEZ	CA	94553	
Highlands Elementary School	1326 PENNSYLVANIA BLVD	CONCORD	CA	94521	
Holbrook Elementary School	3333 RONALD WAY	CONCORD	CA	94519	
Loma Vista Adult Center	1266 SAN CARLOS AVE	CONCORD	CA	94518	
Meadow Homes Elementary School	1371 DETROIT AVE	CONCORD	CA	94518	
Monte Gardens Elementary School	3841 LARKSPUR DR	CONCORD	CA	94519	
Mountain View Elementary School	1705 THORNWOOD DR	CONCORD	CA	94521	
Mt Diablo Elementary School	5880 MT ZION DR	CLAYTON	CA	94517	
Mt Diablo High School	2450 GRANT ST	CONCORD	CA	94520	
Northgate High School	425 CASTLE ROCK RD	WALNUT CREEK	CA	94598	
Oak Grove Middle School	2050 MINERT RD	CONCORD	CA	94518	

Olympic High School	2730 SALVIO ST	CONCORD	CA	94519
Pine Hollow Middle School	5522 PINE HOLLOW RD	CONCORD	CA	94521
Pleasant Hill Elementary School	2097 OAK PARK BLVD	PLEASANT HILL	CA	94523
Pleasant Hill Middle School	ONE SANTA BARBARA RD	PLEASANT HILL	CA	94523
Rio Vista Elementary School	611 PACIFICA AVE	BAY POINT	CA	94565
Riverview Middle School	205 PACIFICA AVE	BAY POINT	CA	94565
Sequoia Elementary School	277 BOYD RD	PLEASANT HILL	CA	94523
Sequoia Middle School	265 BOYD RD	PLEASANT HILL	CA	94523
Shadelands Special Ed School	1860 SILVERWOOD DR	CONCORD	CA	94519
Shore Acres Elementary School	351 MARINA RD	BAY POINT	CA	94565
Silverwood Elementary School	1649 CLAYCORD AVE	CONCORD	CA	94521
Strandwood Elementary School	416 GLADYS DR	PLEASANT HILL	CA	94523
Sun Terrace Elementary School	2448 FLOYD LN	CONCORD	CA	94520
Sunrise Special Ed School	1861 SILVERWOOD DR	CONCORD	CA	94519
Valhalla Elementary School	530 KIKI DR	PLEASANT HILL	CA	94523
Valle Verde Elementary School	3275 PEACHWILLOW LN	WALNUT CREEK	CA	94598
Valley View Middle School	181 VIKING DR	PLEASANT HILL	CA	94523
Walnut Acres Elementary School	180 CEREZO DR	WALNUT CREEK	CA	94596
Westwood Elementary School	1748 WEST ST	CONCORD	CA	94521
Willow Creek Center	1026 MOHR LN	CONCORD	CA	94518
Woodside Elementary School	761 SAN SIMEON DR	CONCORD	CA	94518
Wren Avenue Elementary School	3339 WREN AVE	CONCORD	CA	94519
Ygnacio Valley Elementary School	2217 CHALOMAR RD	CONCORD	CA	94518
Ygnacio Valley High School	755 OAK GROVE RD	CONCORD	CA	94518
<hr/>				
Alliance	2730 SALVIO ST	CONCORD	CA	94519
Crossroads SNHS	2730 SALVIO ST	CONCORD	CA	94519
Gateway SNHS	205 PACIFICA AVE	BAY POINT	CA	94565
Nueva Vista SNHS	1101 ALBERTA WAY	CONCORD	CA	94521
Prospect SNHS	ONE SANTA BARBARA RD	PLEASANT HILL	CA	94523
Summit SNHS	4200 CONCORD BLVD	CONCORD	CA	94521
<hr/>				
Administration- Dent Center	1936 CARLOTTA DR	CONCORD	CA	94519
Diablo Day School	1026 MOHR LN	CONCORD	CA	94518
Maintenance and Operations	1480 GASOLINE ALLEY	CONCORD	CA	94520
Pleasant Hill Ed Center	ONE SANTA BARBARA RD	PLEASANT HILL	CA	94523
Purchasing/Warehouse	2326 BISSO LANE	CONCORD	CA	94520
Transportation	1490 GASOLINE ALLEY	CONCORD	CA	94520

as more particularly described in **Attachment "B,"** attached hereto and incorporated herein by this reference ("Site"); and

WHEREAS, District and Developer intend to enter into a lease-leaseback arrangement for the development of the Project pursuant to Education Code section 17406 (“Lease Agreements”) after Developer’s performance of its duties as set forth in the Agreement and pending both the approval of the Plans and Specifications by the District and Developer of the Lease Agreements.

WHEREAS, Developer desires to provide consulting services to the District with respect to other related services in preparation for the Project’s development; and

WHEREAS, the District is authorized by Section 53060 of the California Government Code to contract with and employ any persons for the furnishing of special services and advice in financial, economic, accounting, engineering, legal or administrative matters, if those persons are specially trained and experienced and competent to perform the special services required; and

WHEREAS, Developer represents that it is specially trained and has the expertise and experience to perform the services set forth in this Agreement; and

NOW, THEREFORE, the Parties hereto agree as follows:

ARTICLE 1. SCOPE OF SERVICES

Scope of Developer’s Services. Developer, as the District’s development consultant and authorized representative as contemplated by Business and Professions Code Section 7040, agrees to perform the services indicated in **Attachment “A,”** attached hereto and incorporated herein by this reference (“Services”). The duties, responsibilities and limitations of authority of Developer shall not be restricted, modified or extended without written agreement between the District and Developer

ARTICLE 2. CONSTRUCTION

The Parties expect to enter into the Lease Agreements on or about October 1, 2013. The Parties expect that the Project shall be completed on or before February 01, 2015.

ARTICLE 3. DISTRICT'S RESPONSIBILITIES

The District shall provide to Developer information regarding requirements for the Project, including information regarding the District's objectives, schedule, constraints and criteria.

ARTICLE 4. TERM & TERMINATION

4.1. Term. The term of this Agreement (“Term”) shall be Fourteen (14) months from the date indicated above as the date of this Agreement. The Term may be shortened or lengthened by mutual agreement of the Parties or terminated as indicated herein.

4.2. Termination by Developer. This Agreement may be terminated by Developer upon fourteen (14) days written notice to District in the event of an uncured substantial failure of performance by District.

4.3. Termination by District. This Agreement may be terminated without cause by District upon fourteen (14) days written notice to Developer. In the event of a termination by District, the District shall pay Developer for all Services performed and all expenses incurred under this Agreement up until the date of notice of termination plus any sums due Developer for Board approved extra services. In ascertaining the Services actually rendered hereunder up to the date of termination of this Agreement, consideration shall be given to both completed work and work in process of completion and to complete and incomplete documents whether delivered to the District or in the possession of Developer.

ARTICLE 5. COMPENSATION TO DEVELOPER

District agrees to pay Developer the amount of Zero Dollars (\$XX0.00), for the performance of the Services contemplated by this Agreement, as indicated in **Attachment "C" ("Services: Costs & Schedule")**. Developer shall be responsible for all costs and expenses including the costs of hiring sub-consultants and other professionals to perform the Services, travel expenses to the Project site as well as for meetings with District and its representatives, long distance telephone charges, copying expenses, salaries of Developer's staff and employees working on the Project, overhead, and any other reasonable expenses incurred by Developer in performance of the Services contemplated by this Agreement. Developer shall submit the names of all proposed sub-consultants to District in writing for the District's prior approval.

ARTICLE 6. MISCELLANEOUS

6.1. Developer's Insurance. Developer has in force, and during the term of this Agreement shall maintain in force with the minimum indicated limits, the following insurance: **Commercial General Liability insurance:** \$1,000,000 for each occurrence and general aggregate with Products and Completed Operations Coverage; **Automobile Liability – Any Auto:** combined single limit of \$1,000,000; **Excess Liability insurance:** \$4,000,000; **Workers Compensation:** Statutory limits; **Employers' Liability:** \$1,000,000; and **Professional Liability (Errors and Omissions):** \$1,000,000. Developer shall provide to the District certificate(s) of insurance and endorsements satisfactory to the District. The policy(ies) shall not be amended or modified and the coverage amounts shall not be reduced without thirty (30) days written notice to the District prior to cancellation. Except for the worker's compensation and professional liability insurance policies, the District shall be named as an additional insured on all policies. Developer's policy(ies) shall be primary; any insurance carried by the District shall only be secondary and supplemental. All policies, except for professional liability, shall be written on an occurrence form. Developer shall not allow any subconsultant, subcontractor, employee, or agent to commence work on this Agreement or any subcontract until the insurance required of Developer, subcontractor, or agent has been obtained.

6.2. Indemnity. To the furthest extent permitted by California law, Developer shall defend, indemnify, and hold free and harmless the District, its agents, representatives, officers, consultants, employees, trustees, and volunteers ("the indemnified parties") from any and all claims, demands, causes of action, costs, expenses, liability, loss, damage or injury of any kind, in law or equity ("Claim"), to property or persons, including personal injury and/or death, to the extent that any of the above arise out of, pertain to, or relate to the negligence, recklessness, errors or omissions, or willful misconduct of Developer, its officials, officers, employees, subcontractors, consultants, or agents directly or indirectly arising out of, connected with, or resulting from the performance of the Services, the Project, or this Agreement

6.3. Independent Contractor. Developer, in the performance of this Agreement, shall be and act as an independent contractor. Developer understands and agrees that Developer and all of Developer's employees shall not be considered officers, employees or agents of the District.

6.4. Audit. Developer shall establish and maintain books, records, and systems of account, in accordance with generally accepted accounting principles, reflecting all business operations of Developer transacted under this Agreement. Developer shall retain these books, records, and systems of account during the Term of this Agreement and for five (5) years thereafter. Developer shall permit the District, its agent, other representatives, or an independent auditor to audit, examine, and make excerpts, copies, and transcripts from all books and records, and to make audit(s) of all billing statements, invoices, records, and other data related to the Services covered by this Agreement. Audit(s) may be performed at any time, provided that the District shall give reasonable prior notice to Developer and shall conduct audit(s) during Developer's normal business hours, unless Developer otherwise consents.

6.5. Confidentiality. Developer and all Developer's agents, personnel, employee(s), and/or subcontractor(s) shall maintain the confidentiality of all information received in the course of performing the Services. This requirement to maintain confidentiality shall extend beyond the termination of this Agreement.

6.6. **Standard of Care.** Developer shall remain liable to the District in accordance with this Agreement for all damages to the District caused by Developer's failure to perform any of the Services furnished under this Agreement to the standard of care of Developer for its Services, which shall be, at a minimum, the standard of care of a construction managers performing similar work for California school districts at or around the same time and in or around the same geographic area of the District.

6.7. **No Third Party Rights.** Nothing contained in this Agreement shall create a contractual relationship with or a cause of action in favor of any third party against either the District or Developer.

6.8. **Binding on Successors.** The District and Developer, respectively, bind themselves, their partners, officers, successors, assigns and legal representatives to the other party to this Agreement with respect to the terms of this Agreement. Developer shall not assign this Agreement.

6.9. **Governing Law.** This Agreement shall be governed by the laws of the State of California. The Parties further agree that any action or proceeding brought to enforce the terms and conditions of this Agreement shall be maintained and venued in the county where the District's administrative offices are located.

6.10. **Modifications.** This Agreement represents the entire Agreement between the District and Developer and supersedes all prior negotiations, representations or agreements, either written or oral. This Agreement may be amended or modified only by an agreement in writing signed by both the District and Developer.

6.11. **Lease Agreements.** In no event shall either party be obligated to enter into the Lease Agreements. District reserves the right to enter into the Lease Agreements with parties other than Developer. District shall not be responsible to Developer for any claims or damages resulting from District's failure to enter into the Lease Agreements with Developer.

ACCEPTED AND AGREED on the date indicated below:

Dated: _____, 2013

Dated: 8/28, 2013

District: **Mount Diablo Unified School District**

Developer: **Taber Construction, Inc.**

By: _____

By:  _____

Print Name: _____

Print Name: Bret Taber

Print Title: Superintendent

Print Title: President

Attachment "A"

Scope of Services

Developer shall perform management and coordination services, plan and specification constructability reviews, provide value-engineering reviews and recommendations and other reviews as necessary to verify that the drawings and specifications are clear and reasonably accurate to minimize the need for changes during the construction phase of the project, including but not limited to the following:

A. General Services.

- 1 Developer shall attend regular meetings during Project development between the Engineer, the District, District site personnel, and any other applicable consultants of the District as required to discuss the Project, including budget, scope and schedule.
- 2 Developer shall assist Engineer with the making of a written record of all meetings, conferences, discussions and decisions made between or among the District, Engineer and Developer.
- 3 Developer shall assist the Engineer with making formal presentations to the governing board of District.
- 4 Developer shall prepare and update the preliminary Project schedule.
- 5 Developer shall prepare and update the components of the Guaranteed Project Cost and shall be primarily in control of ensuring that the Project can and is constructed for no more than that amount.
- 6 Assist District with City land use issues;
- 7 Assist District with DSA review, input, and timeframe for same(if needed but, not anticipated);
- ~~8 Provide review and comment upon geotechnical / soils investigation and report;~~
- 9 Provide review and comment upon survey of the Project site;
- 10 Provide boots on the ground assessment, review and comment of current infrastructure pertaining to proposed security system including sizing of conduits, fill percentages as well as current routing noted on site specific plans for developer, district and engineer within first 30 days of this agreement;

B. Review of Design Documents.

- 1 Review Project design and budget with the District and the Engineer during the Schematic Design Phase, the Design Development Phase, at 50% Construction Documents Phase, and at 100% Construction Documents Phase to:
 - a. Provide recommendations on site use and improvements, selection of materials, building systems and equipment and methods of Project delivery;
 - b. Provide recommendations on relative feasibility of construction methods, availability of materials and labor, time requirements for procurement, installation and construction of the Project and subparts thereof if requested, and factors relating to cost including, but not limited to, construction costs of alternate designs of materials, preliminary budgets and possible economics that could be achieved through alternate methods or substitutions;
 - c. Provide interim design phase estimates to establish and maintain the Project budget and scheduled costs; and

- d. Provide plan review.
 - e. Value-engineering. Prepare a value-engineering report for District review and approval that:
 - (1) Details areas of cost saving (e.g. construction processes/procedures, specified materials and equipment, and equipment or other aspects of the design documents that can be modified to reduce costs and/or the time for achieving final completion of the Project and/or to extend life-cycle and/or to reduce maintenance/operations costs, without diminution in the quality of materials/equipment/workmanship, scope or intended purposes of the Project);
 - (2) Provides detailed estimate for proposed value-engineering items;
 - (3) Defines methodology or approaches that maximize value; and
 - (4) Identifies design choices that can be more economically delivered.
 - f. Constructability Review. Prepare detailed interdisciplinary constructability review within thirty (30) days of receipt of the plans from the District that:
 - (1) Ensures construction documents are well coordinated and reviewed for errors;
 - (2) Identifies to the extent known, construction deficiencies and areas of concern;
 - (3) Back-checks design drawings for inclusion of modifications;
 - (4) Provides the District with written confirmation that:
 - (a) Requirements noted in the design documents prepared for the Project are consistent with and conform to the District's Project requirements and design standards.
 - (b) Various components have been coordinated and are consistent with each other so as to minimize conflicts within or between components of the design documents.
2. Confirm Modifications to Design Drawings. If the District accepts Developer's comments, including the value-engineering and/or constructability review comments, review the design documents to confirm that those comments are properly incorporated into the final design documents.

C. Budget of Project Costs.

- 1. At each stage of plan review indicated above, Developer will update and refine the budget of the Guaranteed Project Cost based on the most recent set of design documents. Developer shall also advise the District and the Engineer if it appears that the total construction costs may exceed the Guaranteed Project Cost established by the District and shall make recommendations for corrective action. Developer will further provide input to the District and Engineer relative to value of construction, means and methods for construction, duration of construction of various building methods and constructability.
- 2. In each budget of the Guaranteed Project Cost, Developer shall include values of scopes of work subdivided into component parts in sufficient detail to serve as the basis for progress payments during construction. This budget of the Guaranteed Project Cost shall include, at a minimum, the following information divided into at least the following categories:
 - a. Overhead and profit;
 - b. Supervision;
 - c. General conditions;
 - d. Layout & Mobilization (not more than 1%)
 - e. Submittals, samples, shop drawings (not more than 3%);
 - f. Bonds and insurance (not more than 2%);
 - g. Close-out documentation (not less than 3%);
 - h. Demolition;
 - i. Installation;

- j. Rough-in;
- k. Finishes;
- l. Testing;
- m. Punchlist and acceptance.

- 3 Developer shall indicate its willingness and ability to enter into the Lease Agreements to construct the Project for at or below that Guaranteed Project Cost, excluding unforeseen conditions or District-requested changes. This commitment will be a component of the Lease Agreements.

D. Construction Schedule and Phasing Plan.

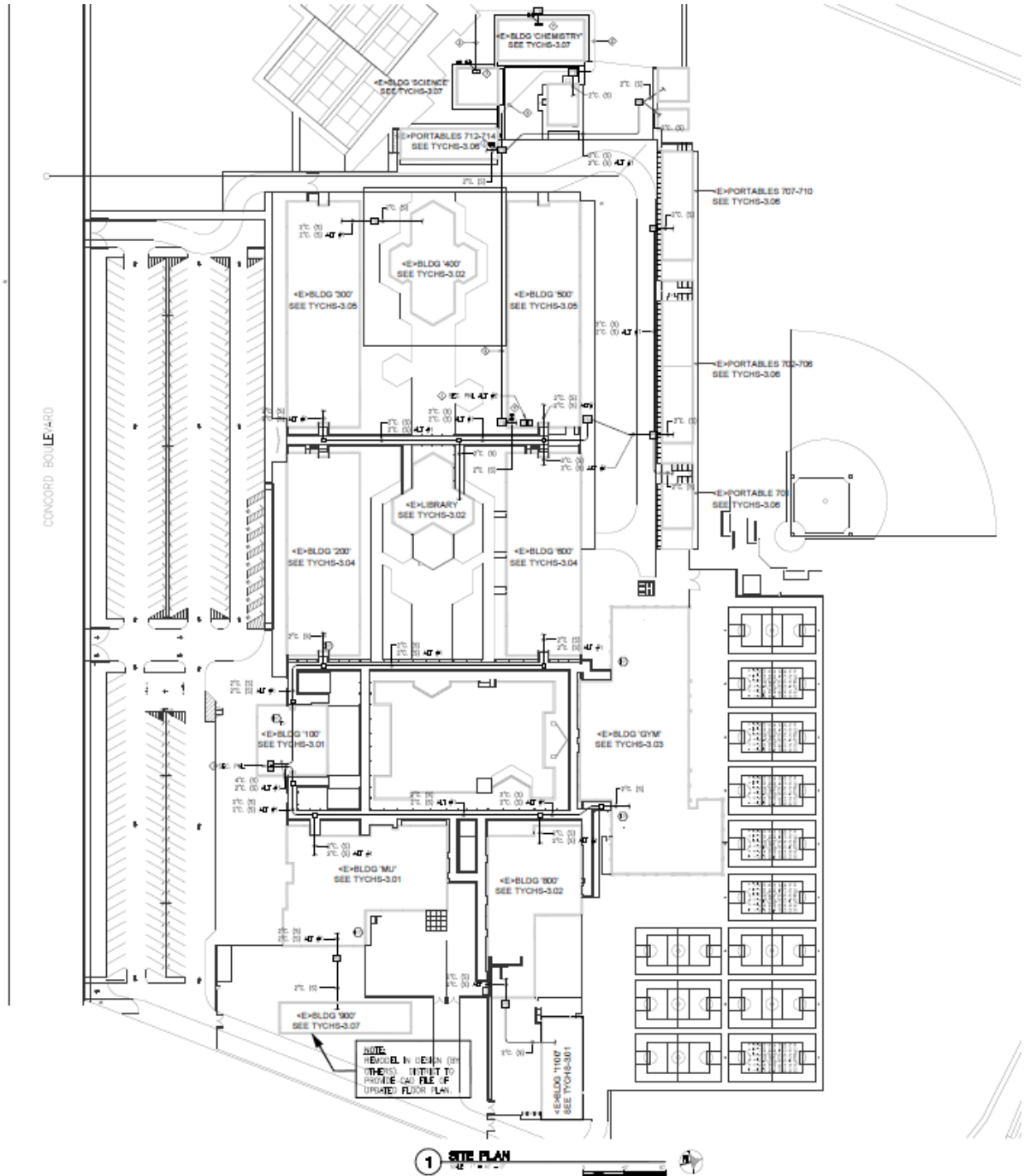
Developer shall prepare a preconstruction schedule to guide the design team through to bid dates. That schedule shall show the multiphase and interrelations of design, constructability review, and estimating. Developer shall also prepare a full construction schedule for the Project detailing the phasing and construction activities. Developer shall further investigate, recommend and prepare a schedule for the District's purchase of materials and equipment requiring long lead time procurement, and coordinate the schedule with the early preparation of portions of the Contract Documents by the Engineer.

E. Construction Planning and Bidding.

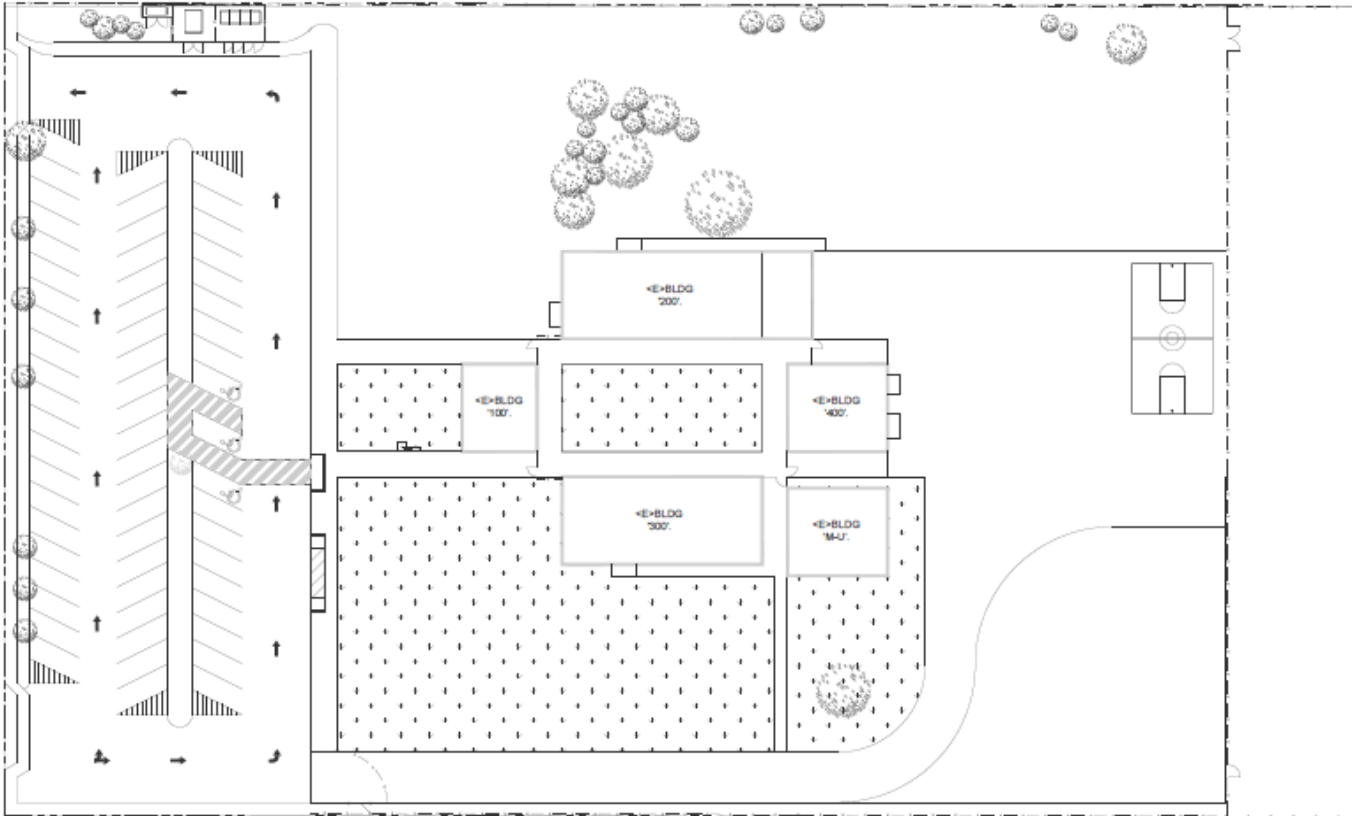
- 1 Prepare and distribute specifications and drawings provided by District to facilitate bidding to Developer's subcontractors.
- 2 Review the drawings and specifications to eliminate areas of conflict and overlapping in the work to be performed by various subcontractors, and with a view to eliminating change order requests by the Engineer or subcontractors.
- 3 Conduct pre-bid conferences. Coordinate with District and the Engineer in responding to subcontractor questions or providing clarification to all subcontractors.
- 4 Receive subcontractor bids and develop the final GPC in accordance with the lease-leaseback agreement forms, including the requirement that the Developer receive at least three (3) to seven (7) bona fide bids from subcontractors for all scopes of work on the Project that constitute more than three percent (3%) of the total GPC (Article 7 of Attachment D to the Facilities Lease).

Attachment "B"
Map of Project Site(s)

Concord High School
4200 Concord Blvd. Concord, CA 94521

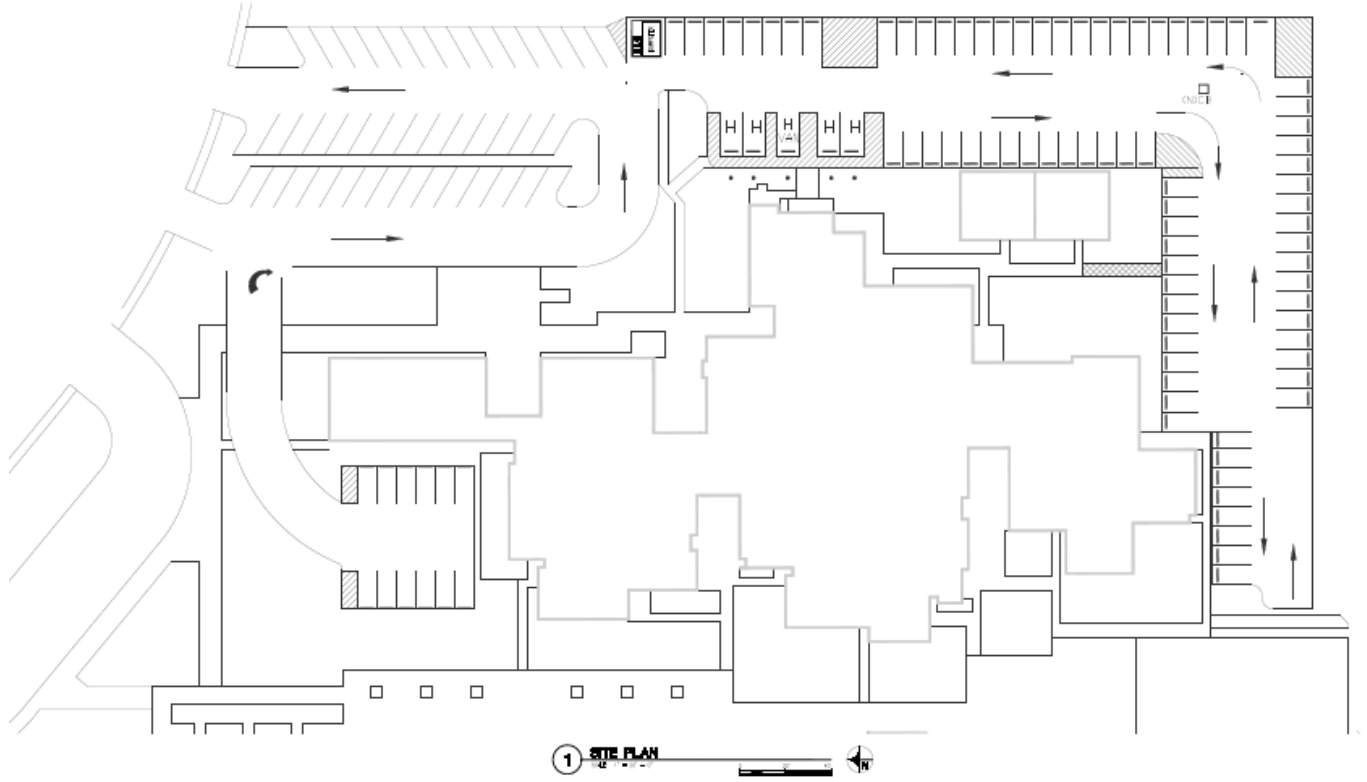


Eagle Peak Montessori School
800 Hutchinson Road, Walnut Creek, CA 94598

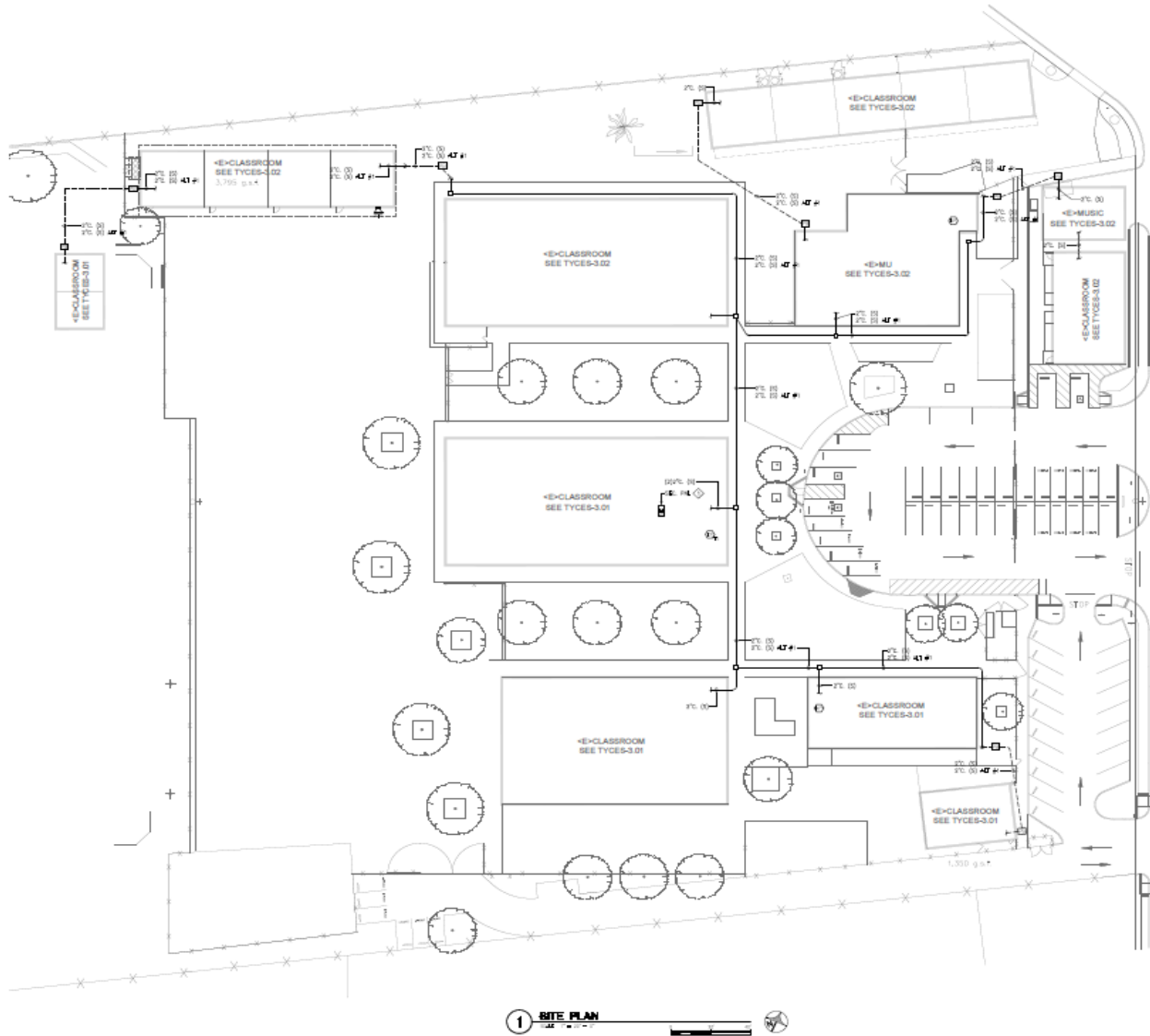


1 SITE PLAN

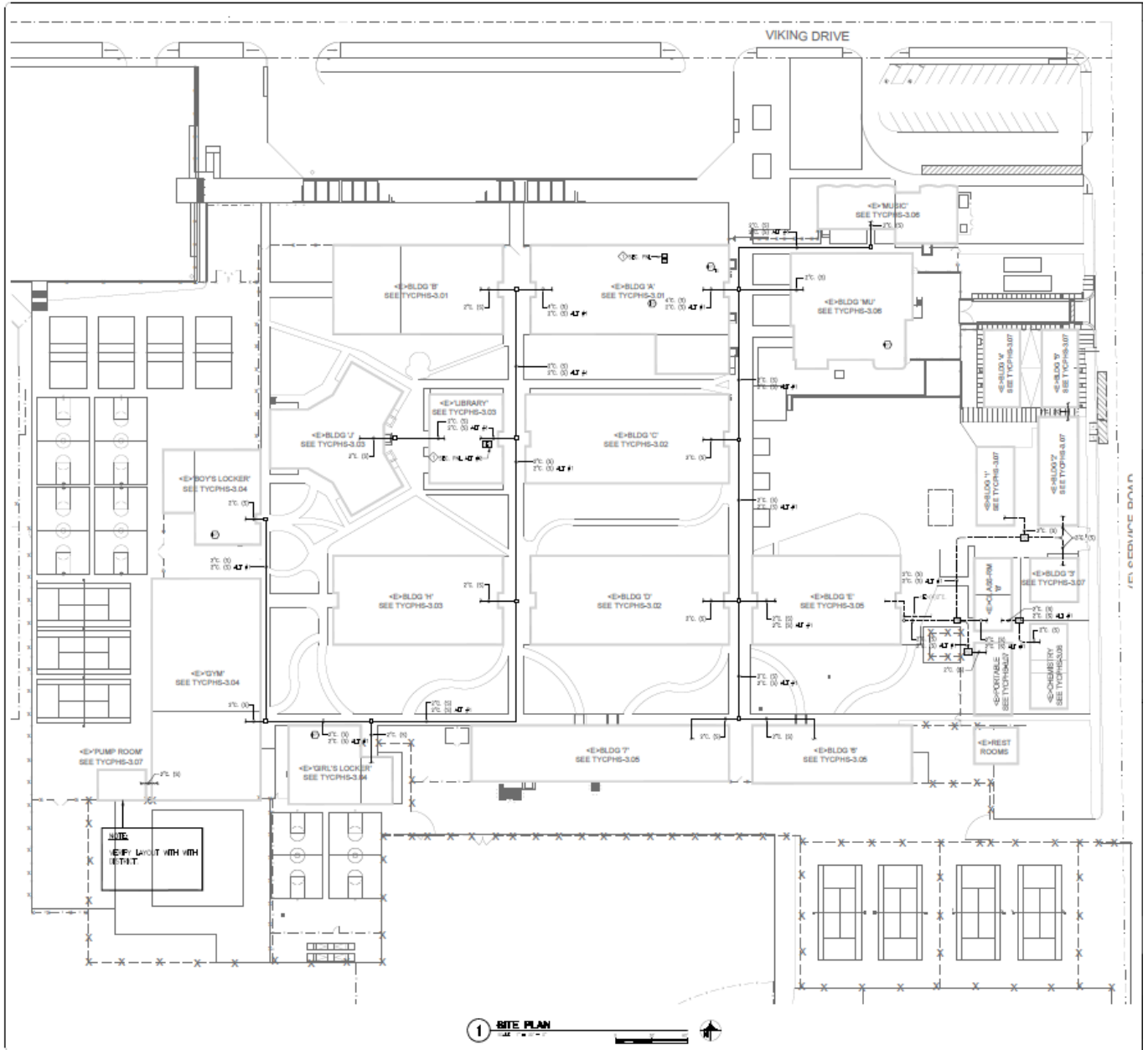
**Willow Creek Center
1026 Mohr Lane, Concord, CA 94518**



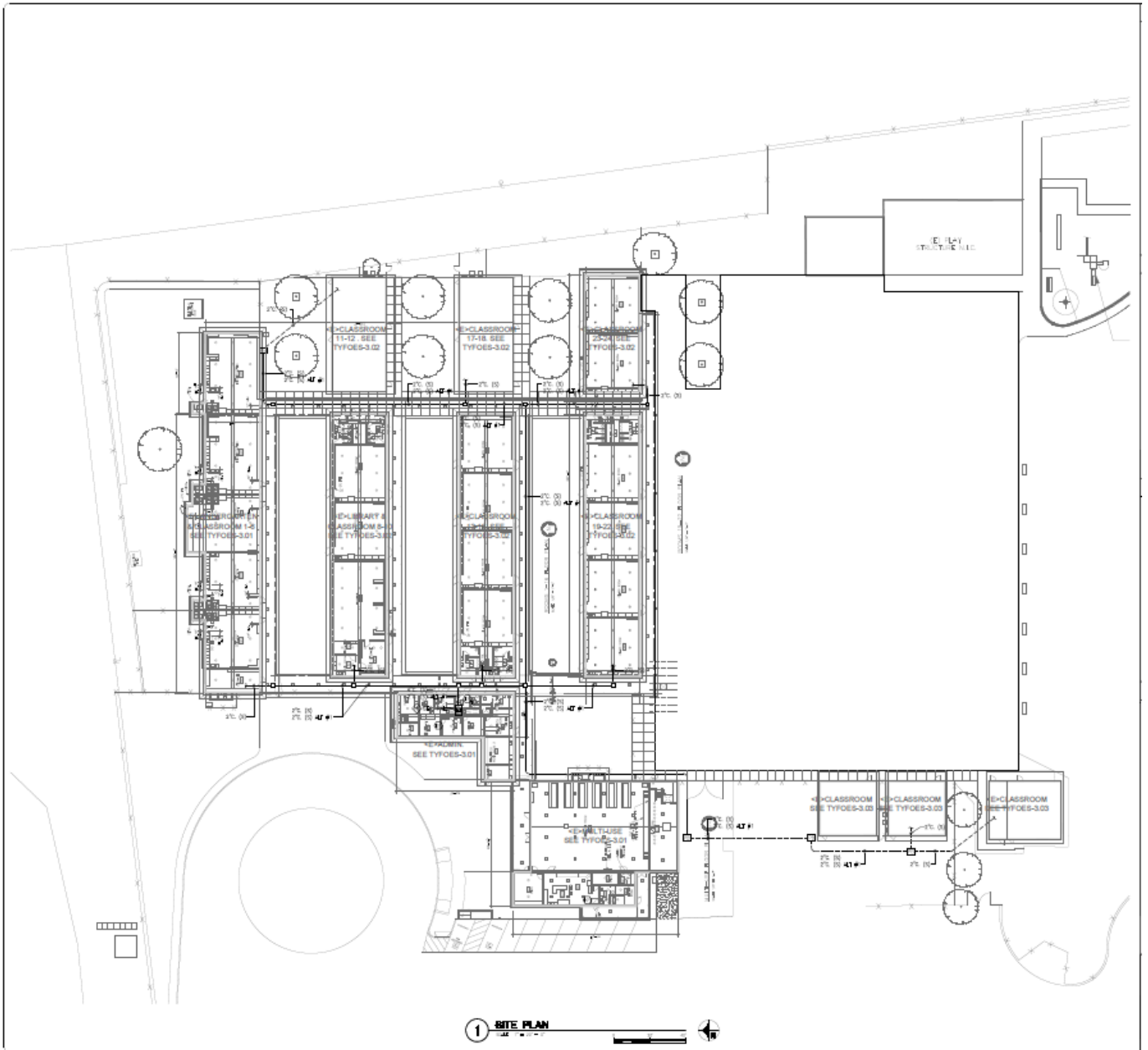
Cambridge Elementary School
1135 Lacey Lane, Concord CA 94520



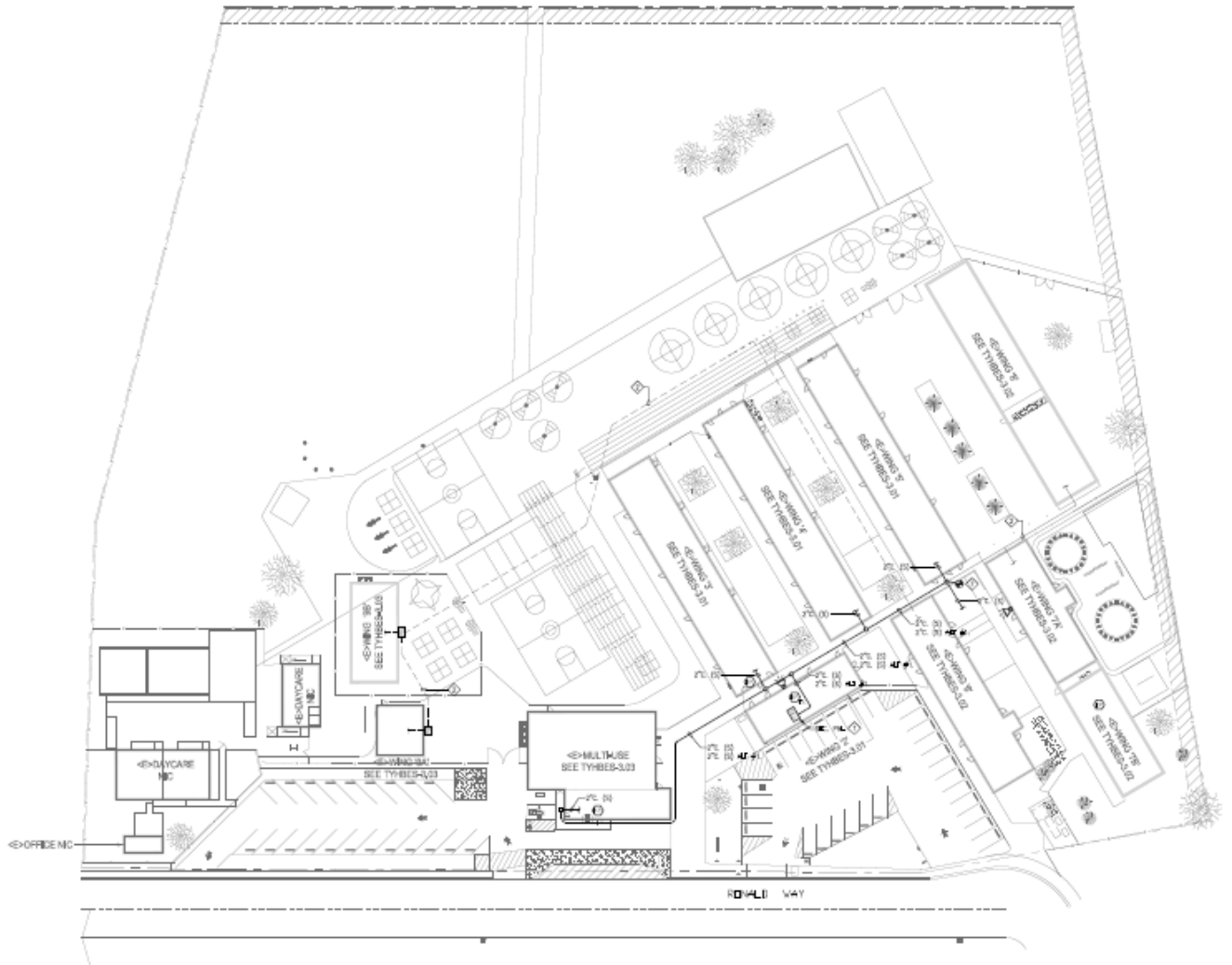
**College Park High School
201 Viking Drive, Pleasant Hill, CA 94523**



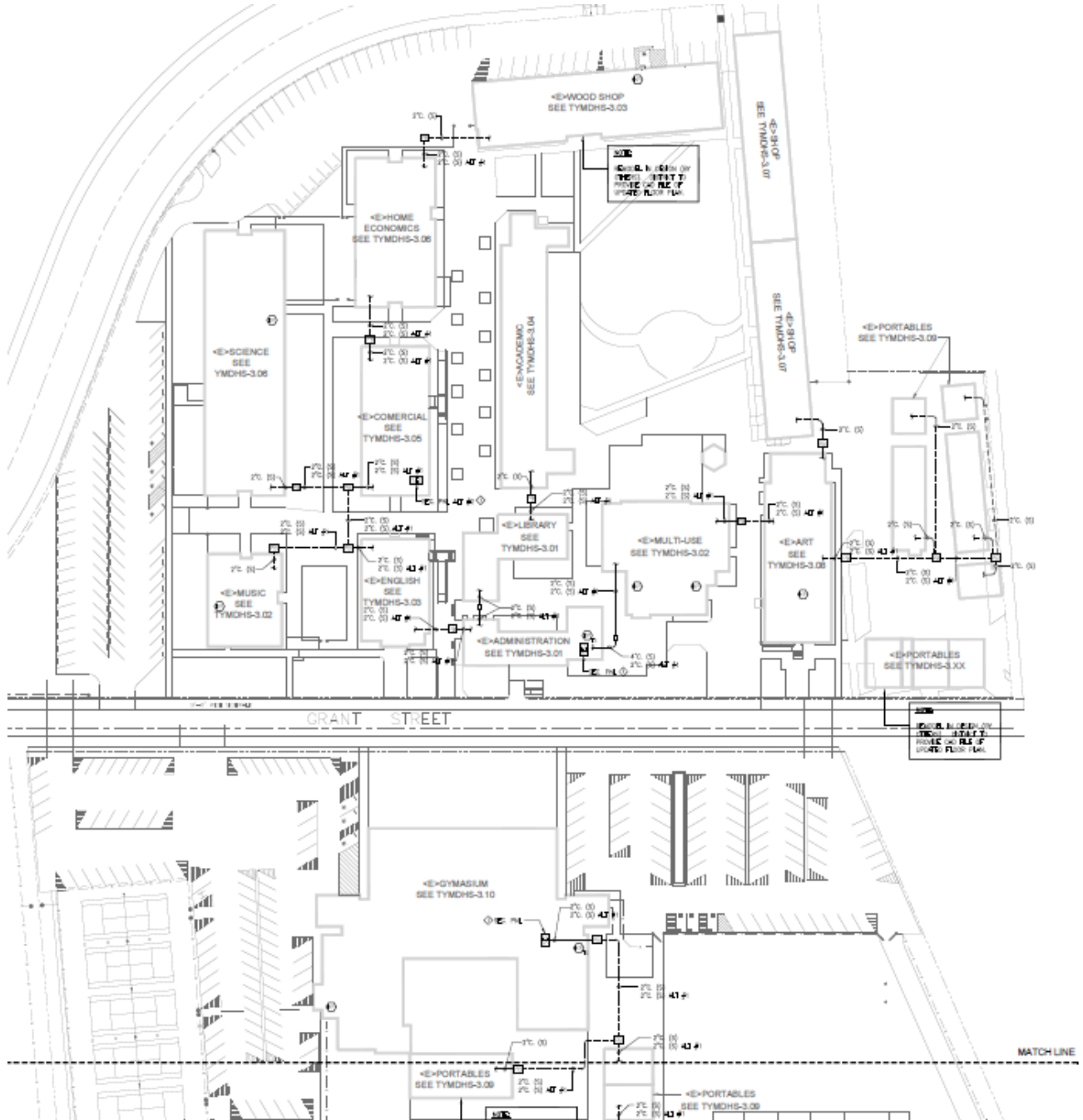
Fair Oaks Elementary School
2400 Lisa Lane, Pleasant Hill, CA 94523



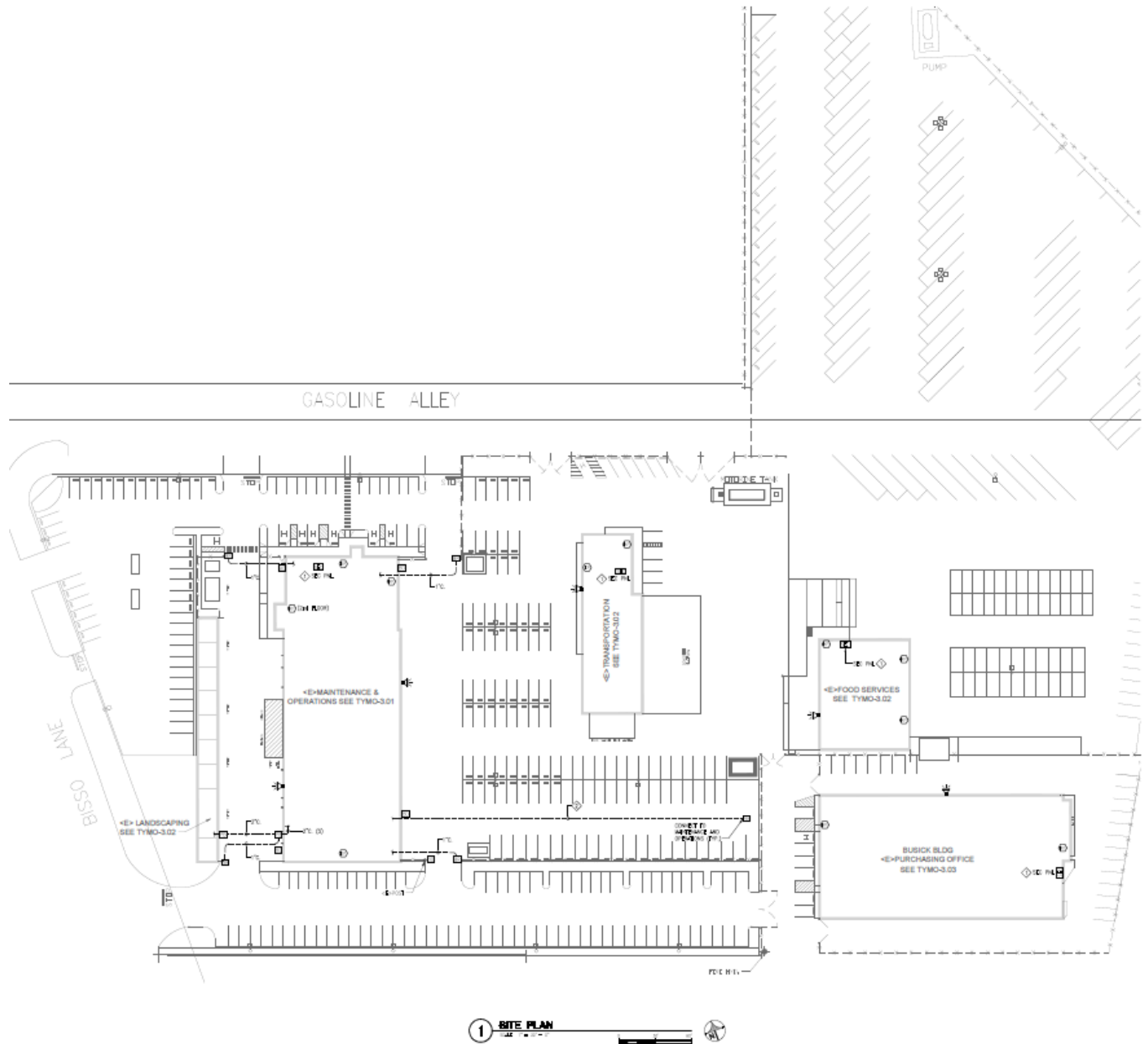
Holbrook Elementary School
3333 Ronald Way, Concord CA, 94519



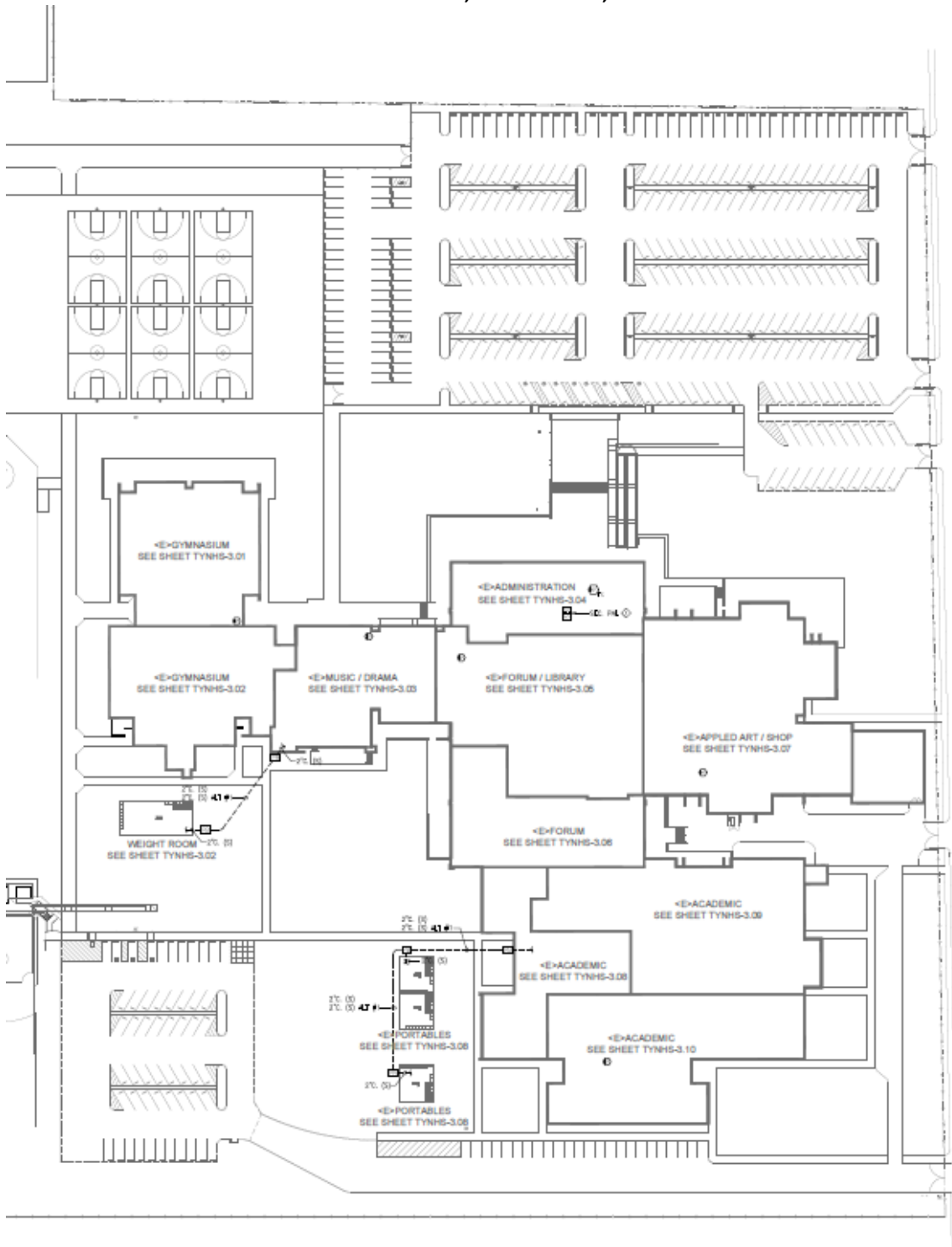
**Mount Diablo High School (Main Campus)
2450 Grant Street, Concord, CA 94520**



Maintenance & Operations, Purchasing, Food Services, Transportation
1480 Gasoline Alley, Concord CA, 94520
1490 Gasoline Alley, Concord CA, 94520
2326 Bisso Lane, Concord, CA 94520

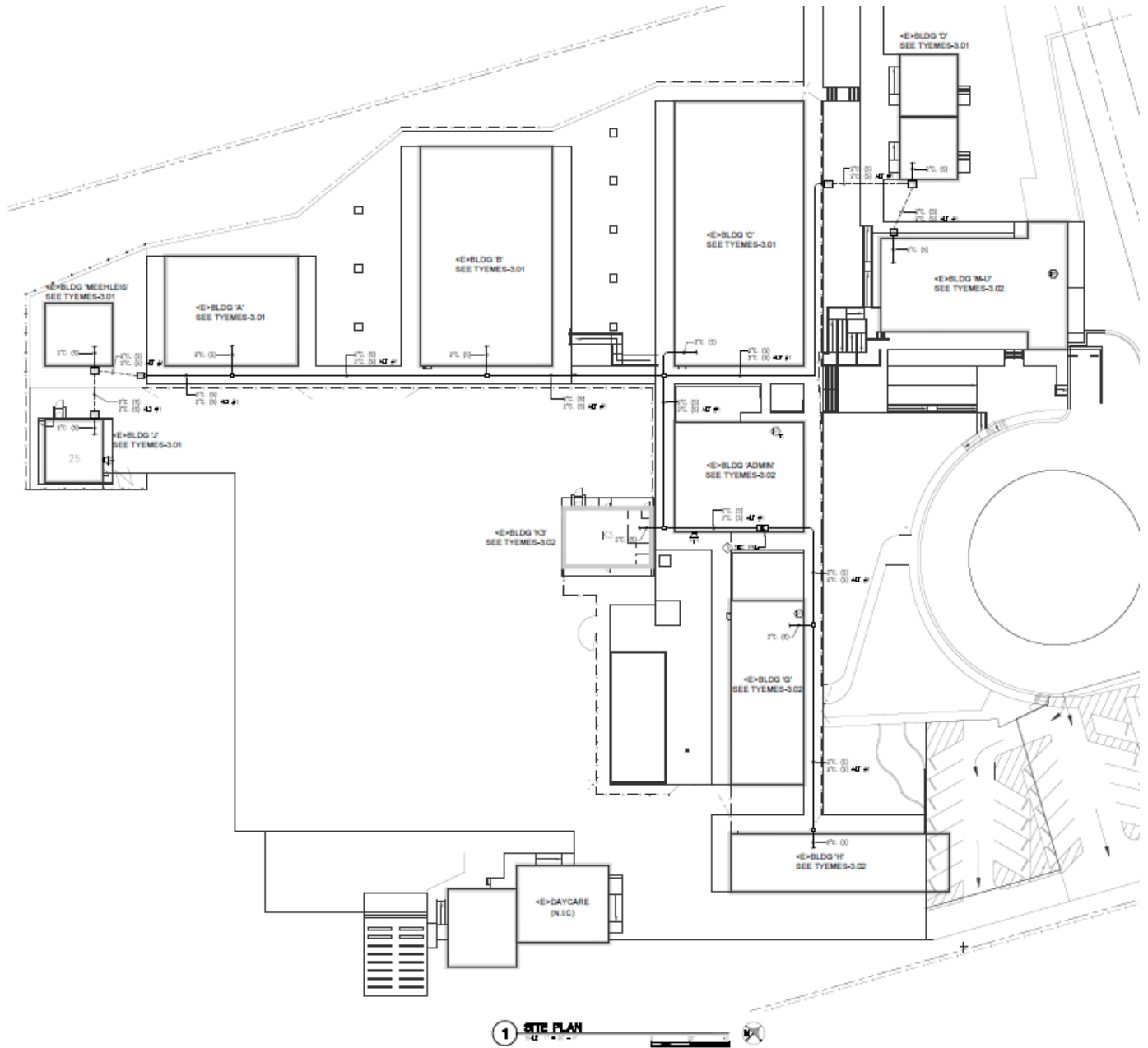


Northgate High School
425 Castle Rock Road, Walnut Creek, CA 94598

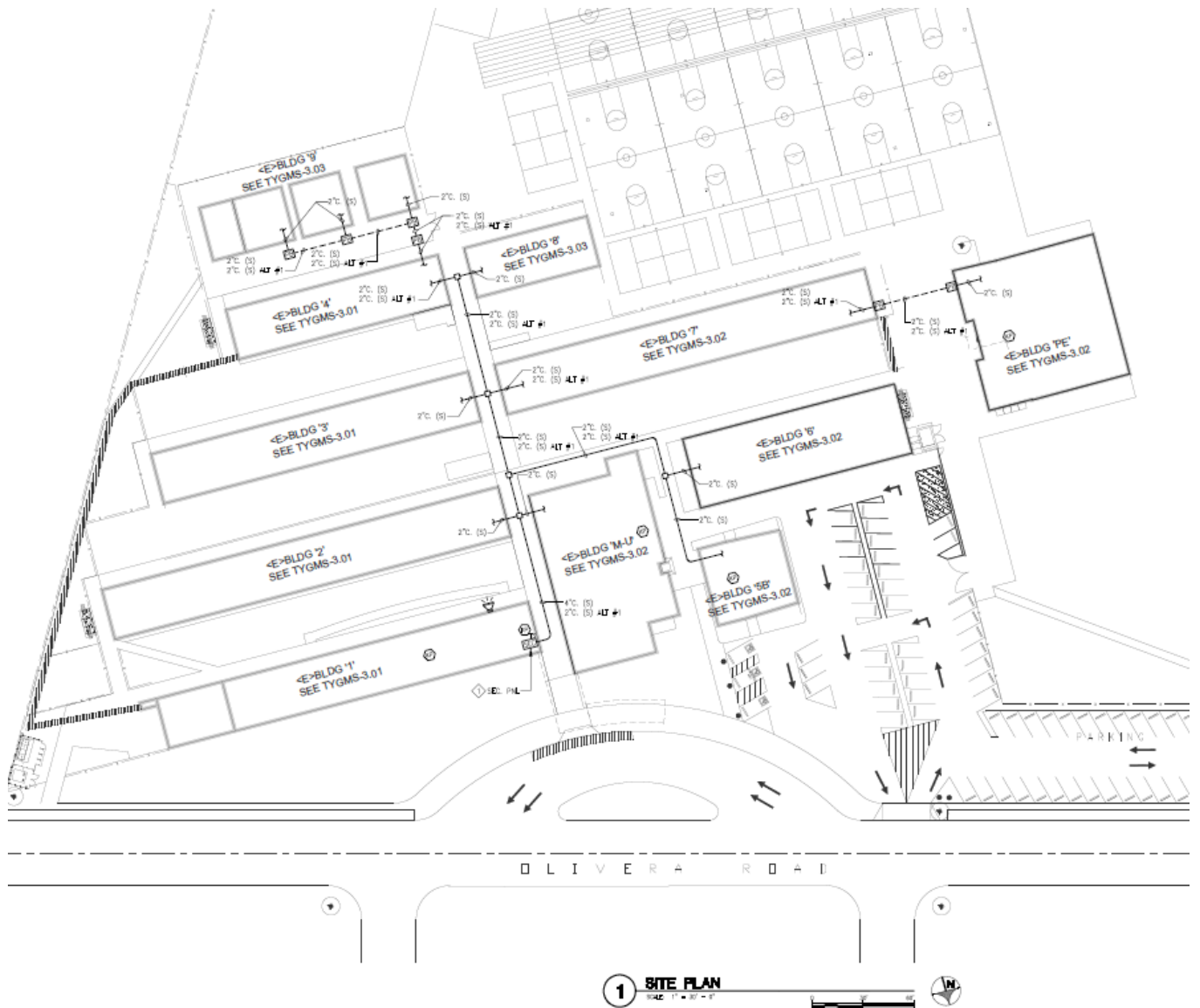


1 SITE PLAN

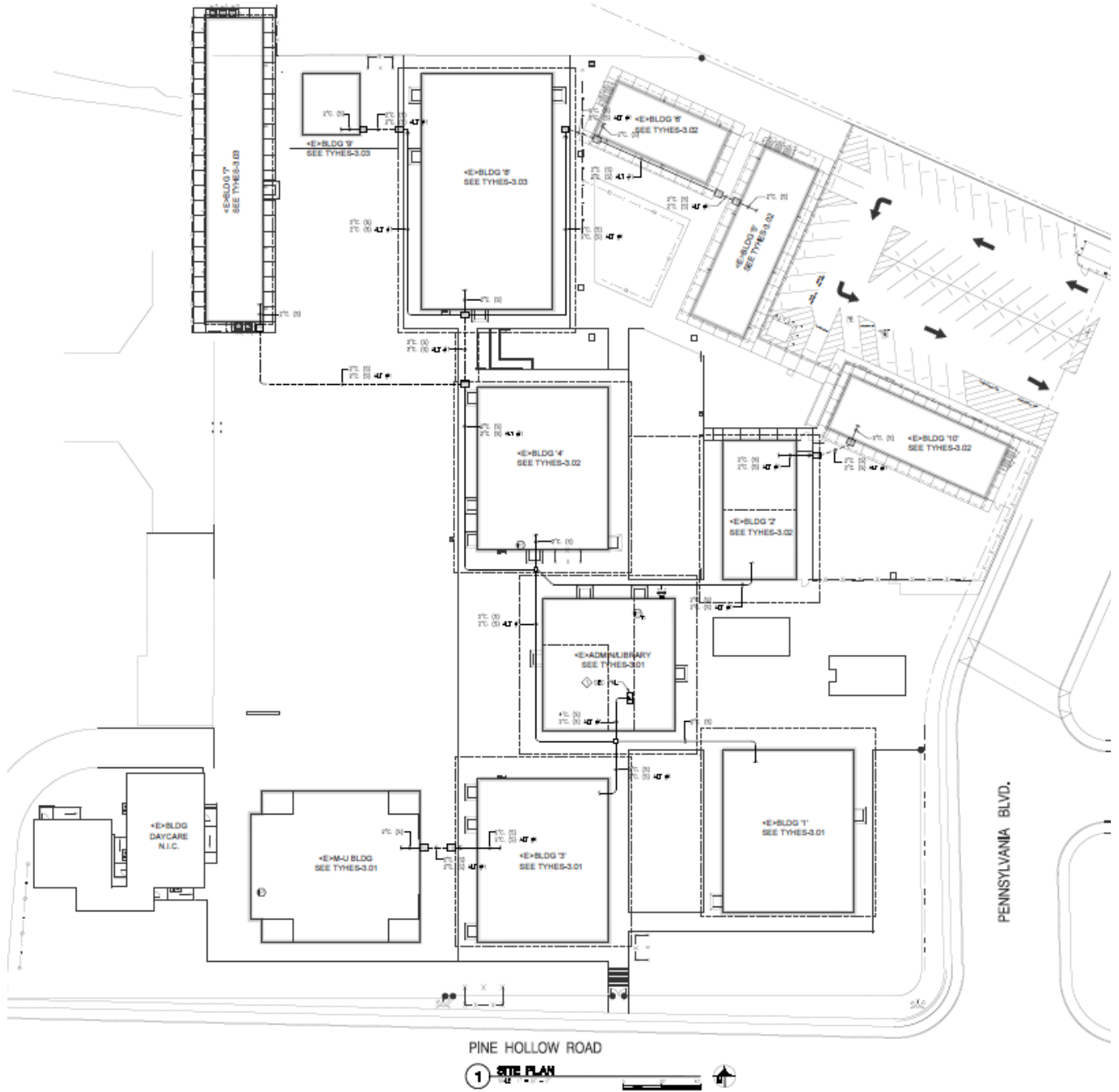
El Monte Elementary School
1400 Dina Drive, Concord, CA 94518



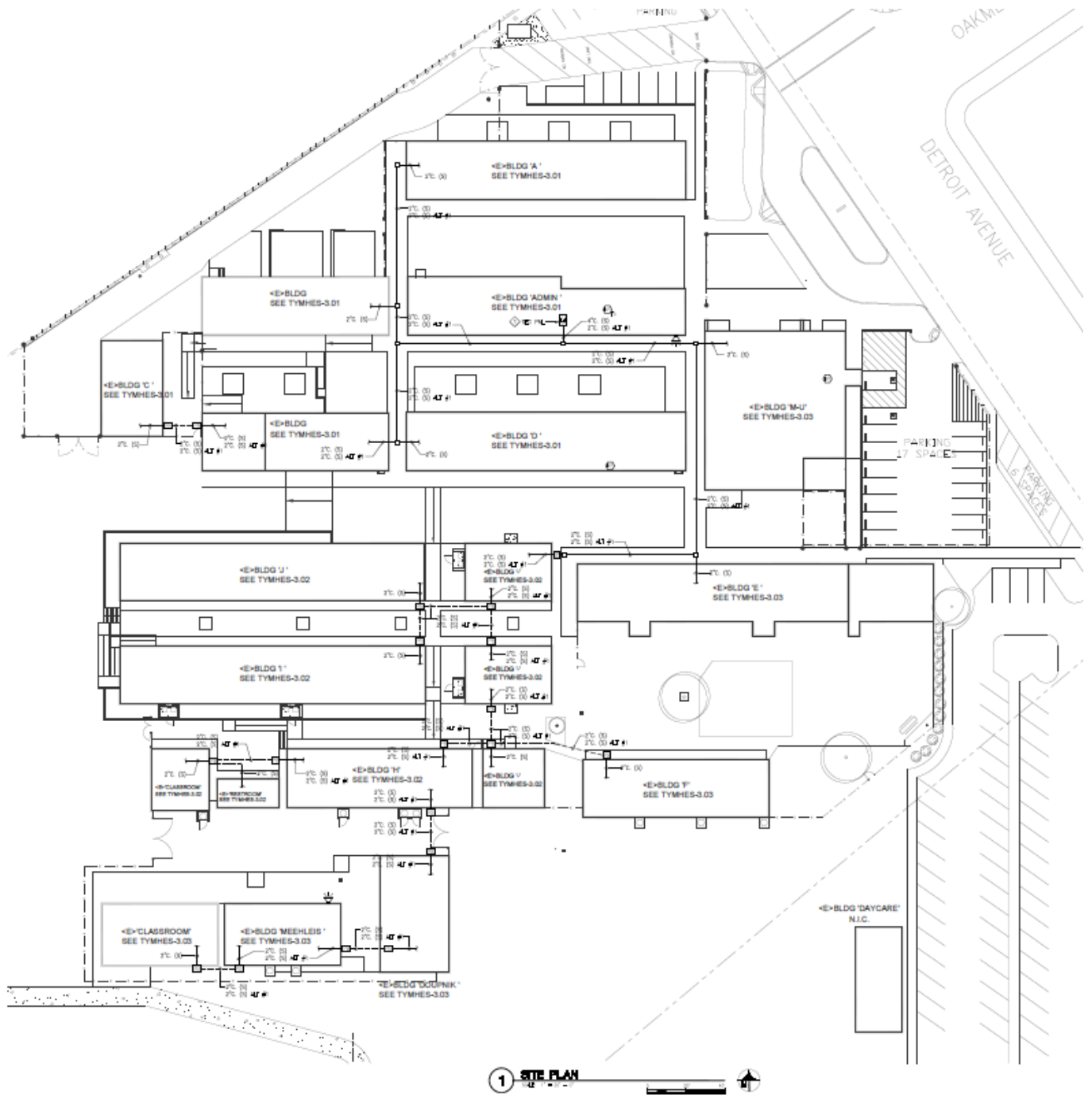
Glenbrook Middle School
2351 Olivera Road, Concord CA, 94520



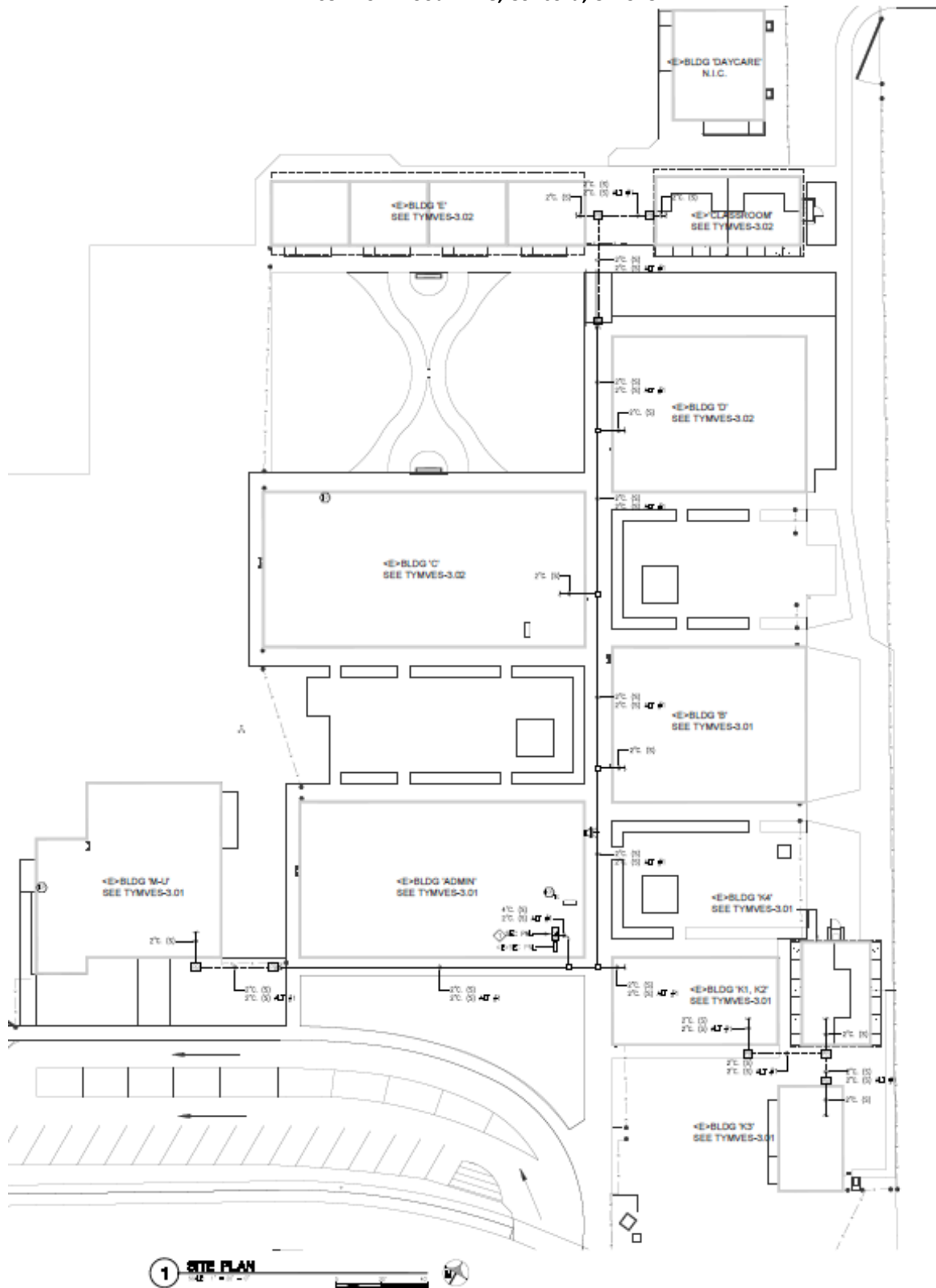
Highland Elementary School
1326 Pennsylvania Blvd. Concord, CA 94521



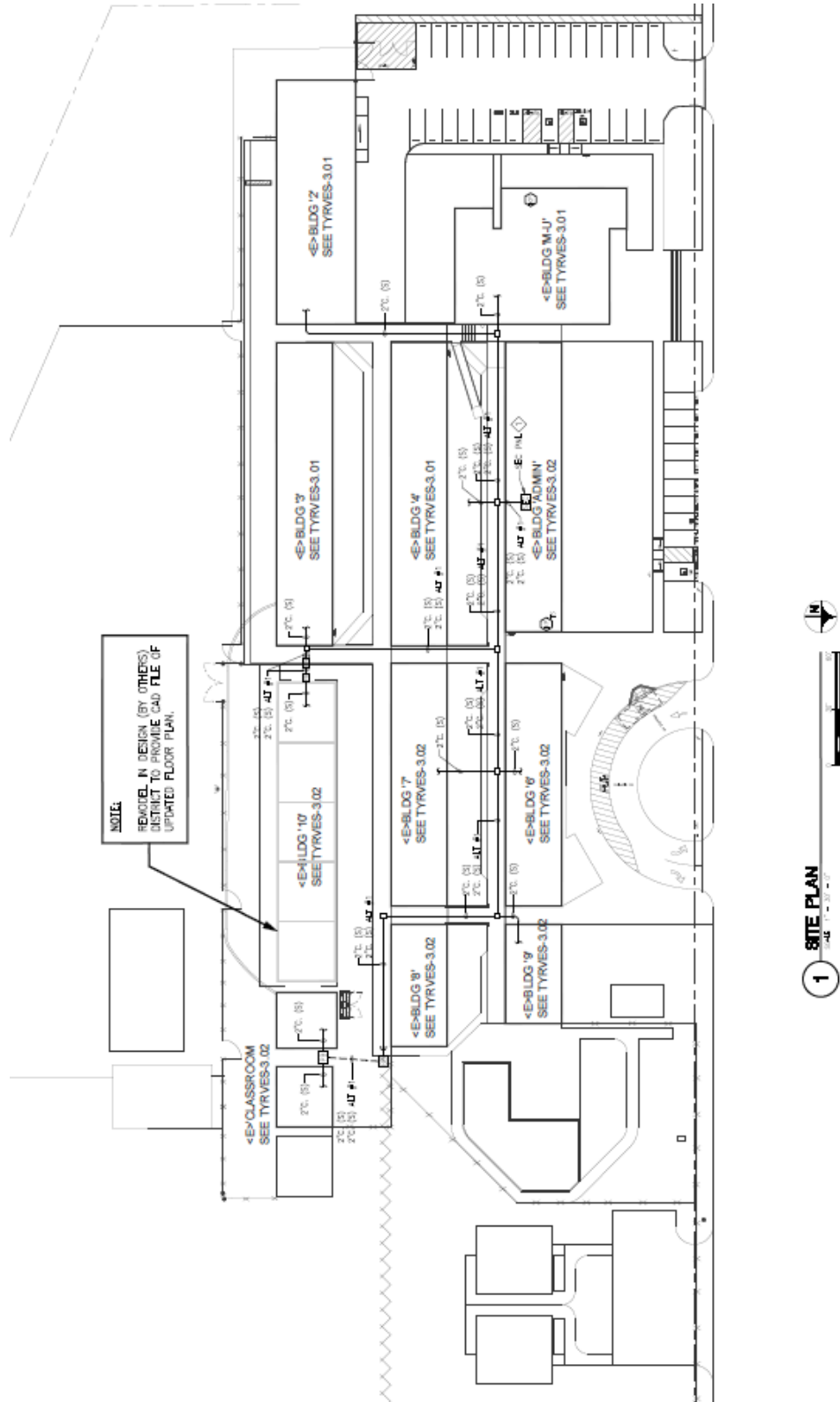
Meadow Homes Elementary School
 1371 Detroit Avenue, Concord CA 94518



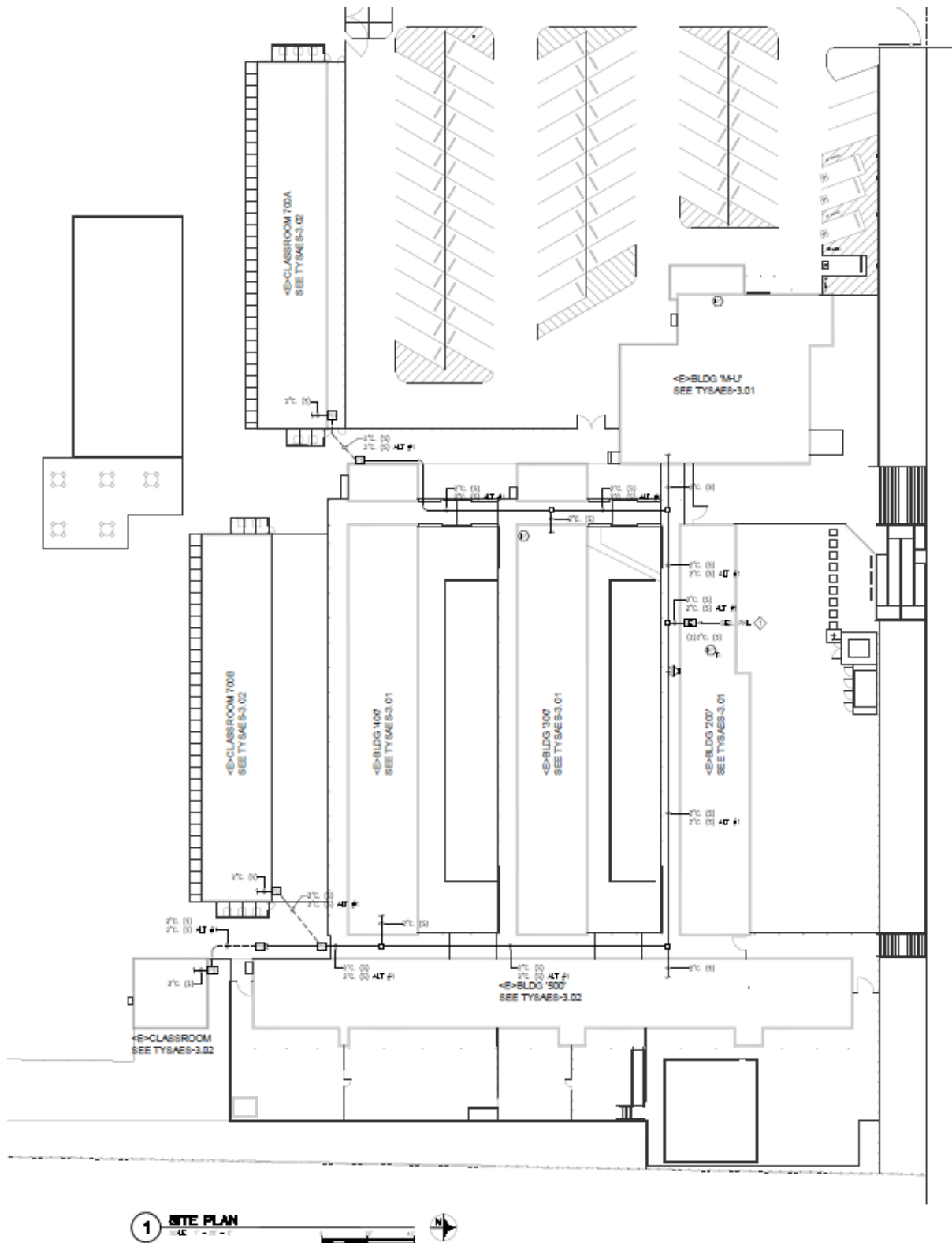
Mountain View Elementary School
1705 Thornwood Drive, Concord, CA 94521



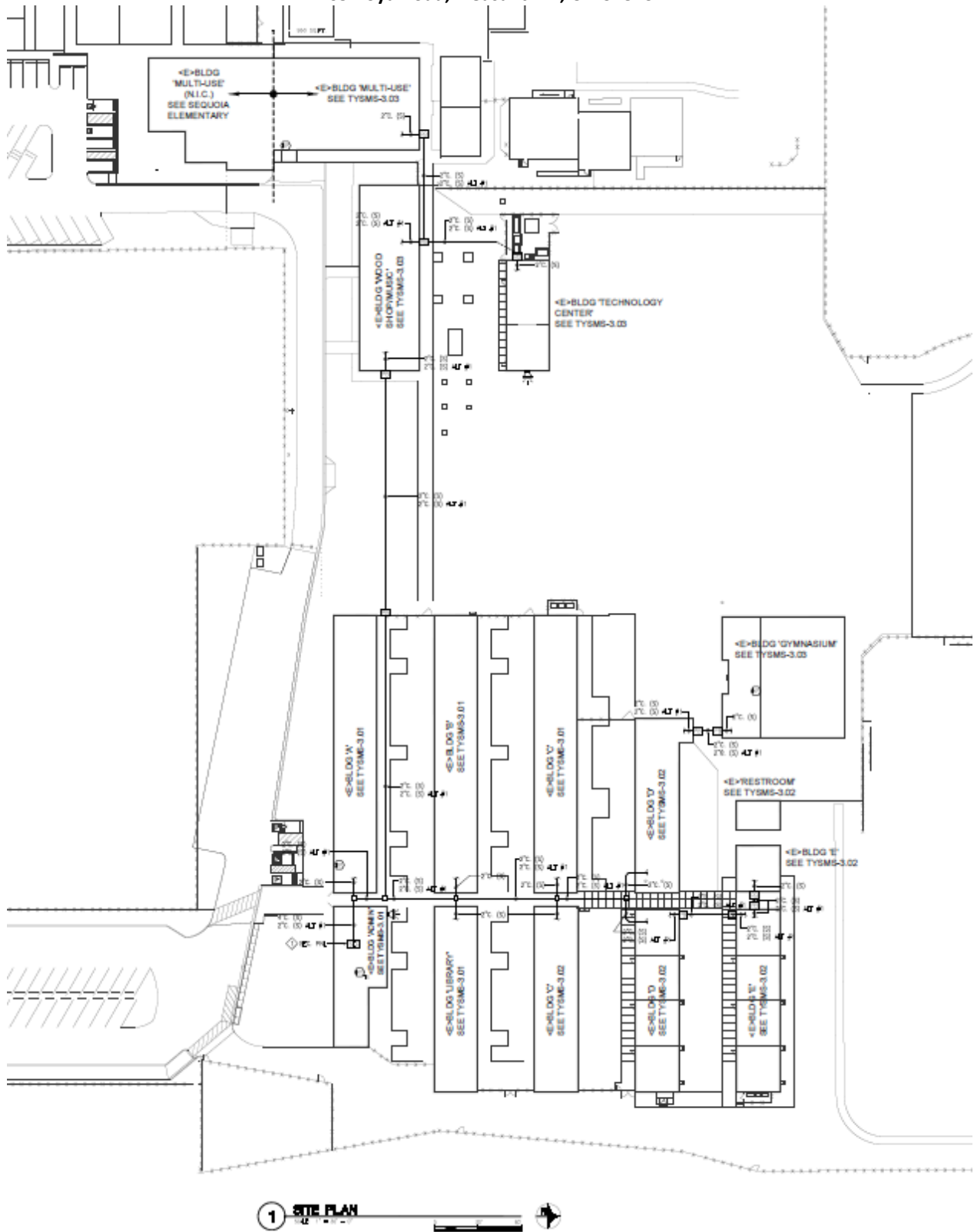
Rio Vista Elementary School
611 Pacifica Ave, Bay Point, CA 94565



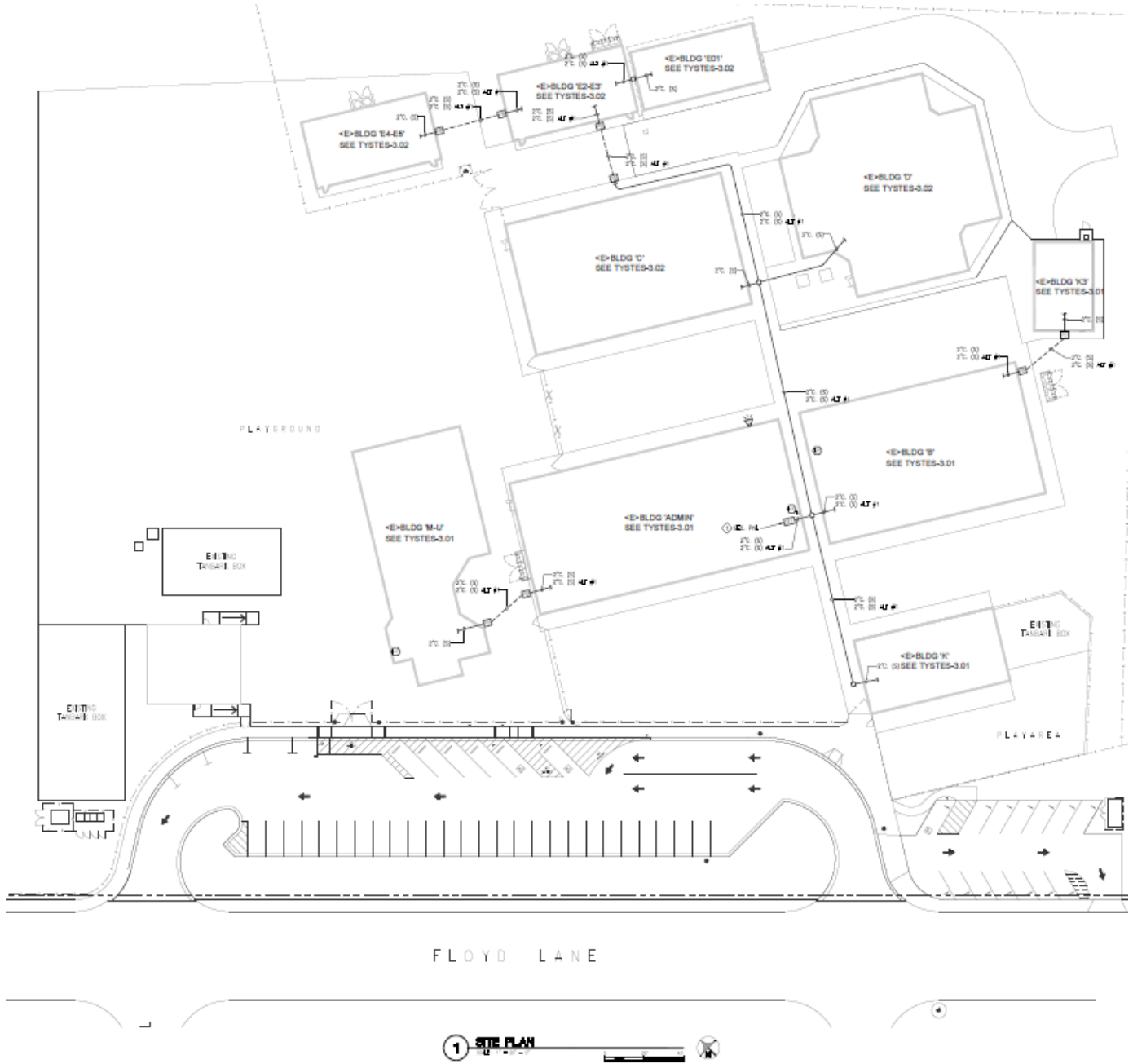
Shore Acres Elementary School
351 Marina Road, Bay Point, CA 94565



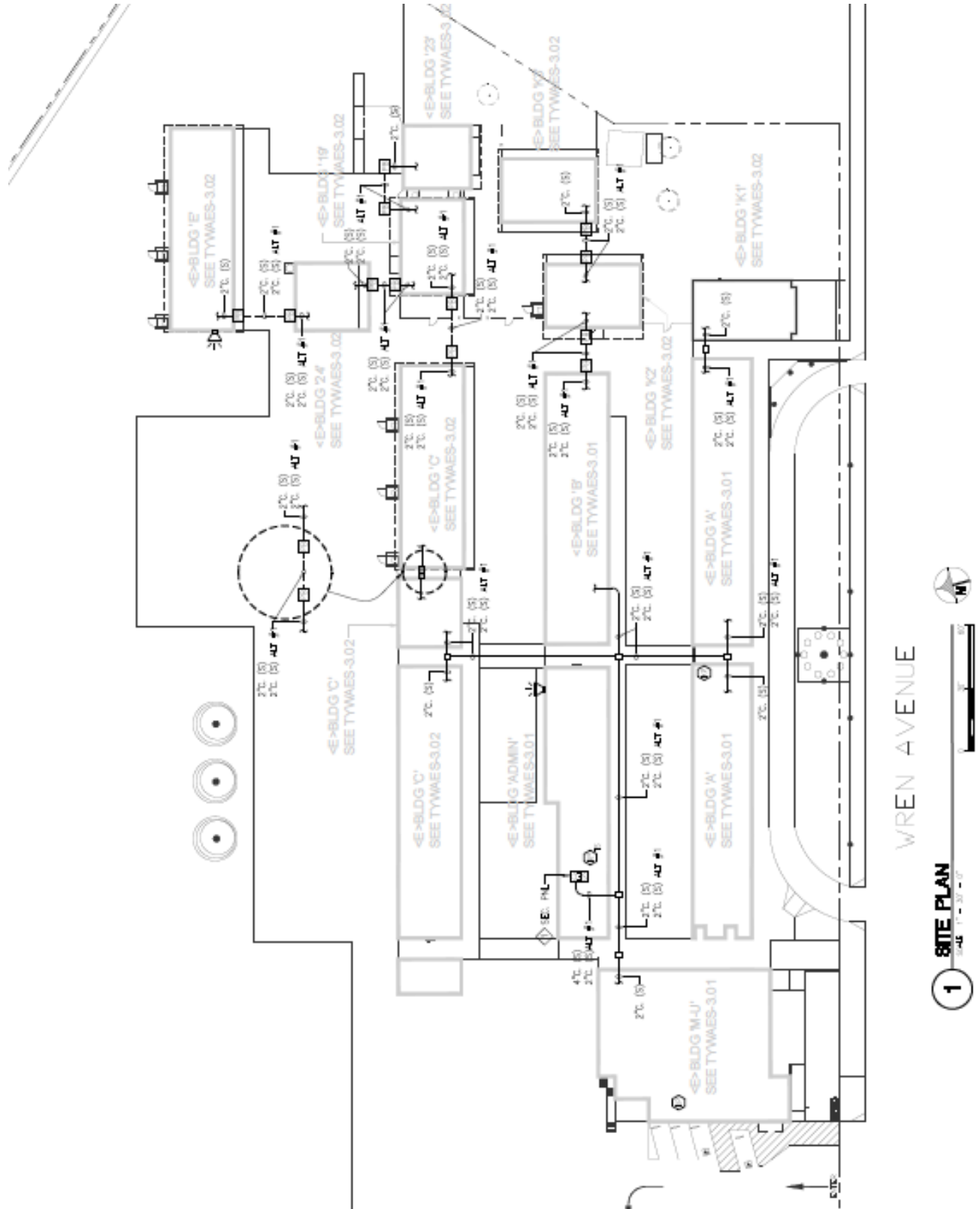
Sequoia Middle School
265 Boyd Road, Pleasant Hill, CA 94523



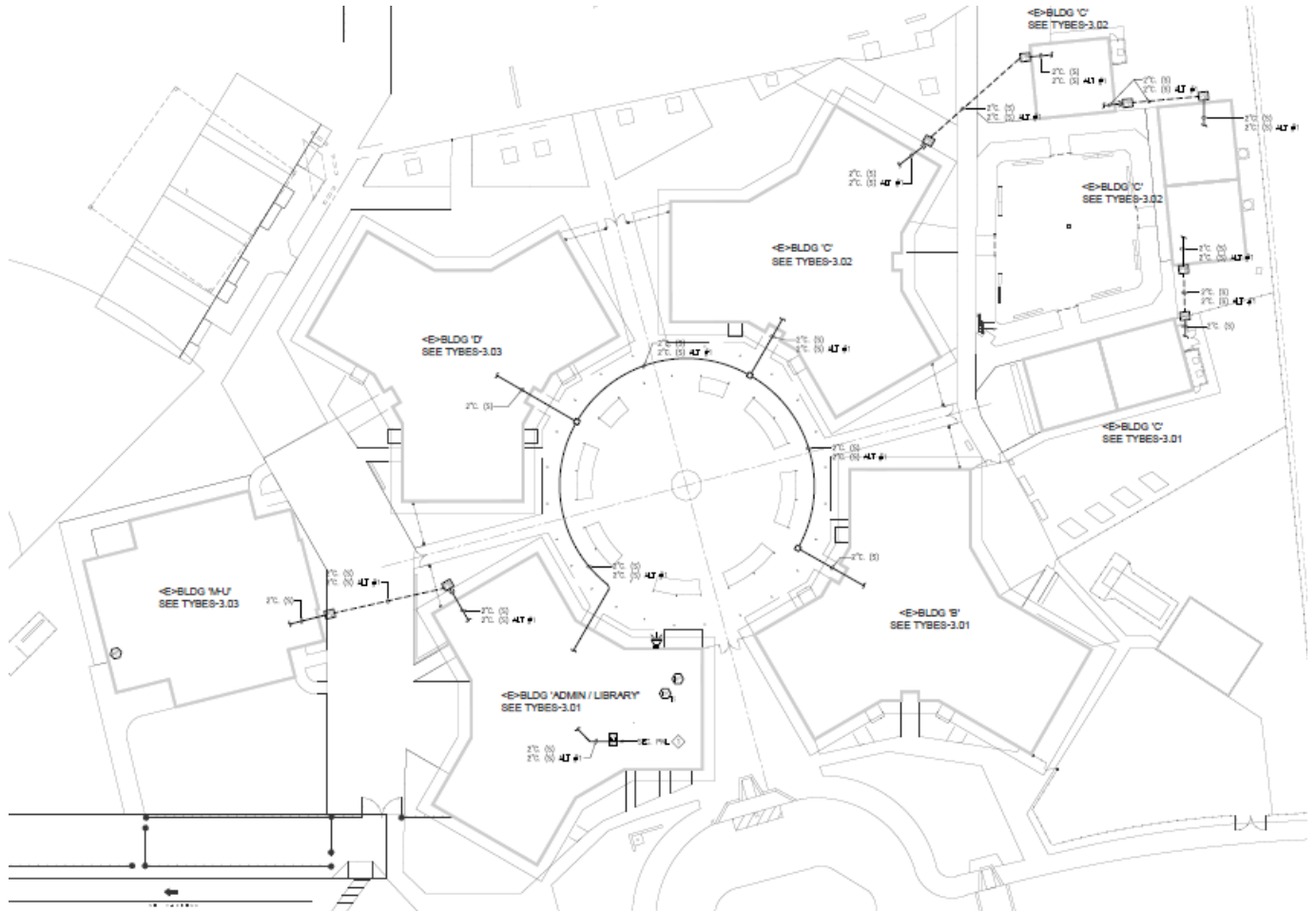
**Sun Terrace Elementary School
2448 Floyd Lane, Concord, CA 94520**



Wren Ave Elementary School
3339 Wren Avenue, Concord, CA 94519



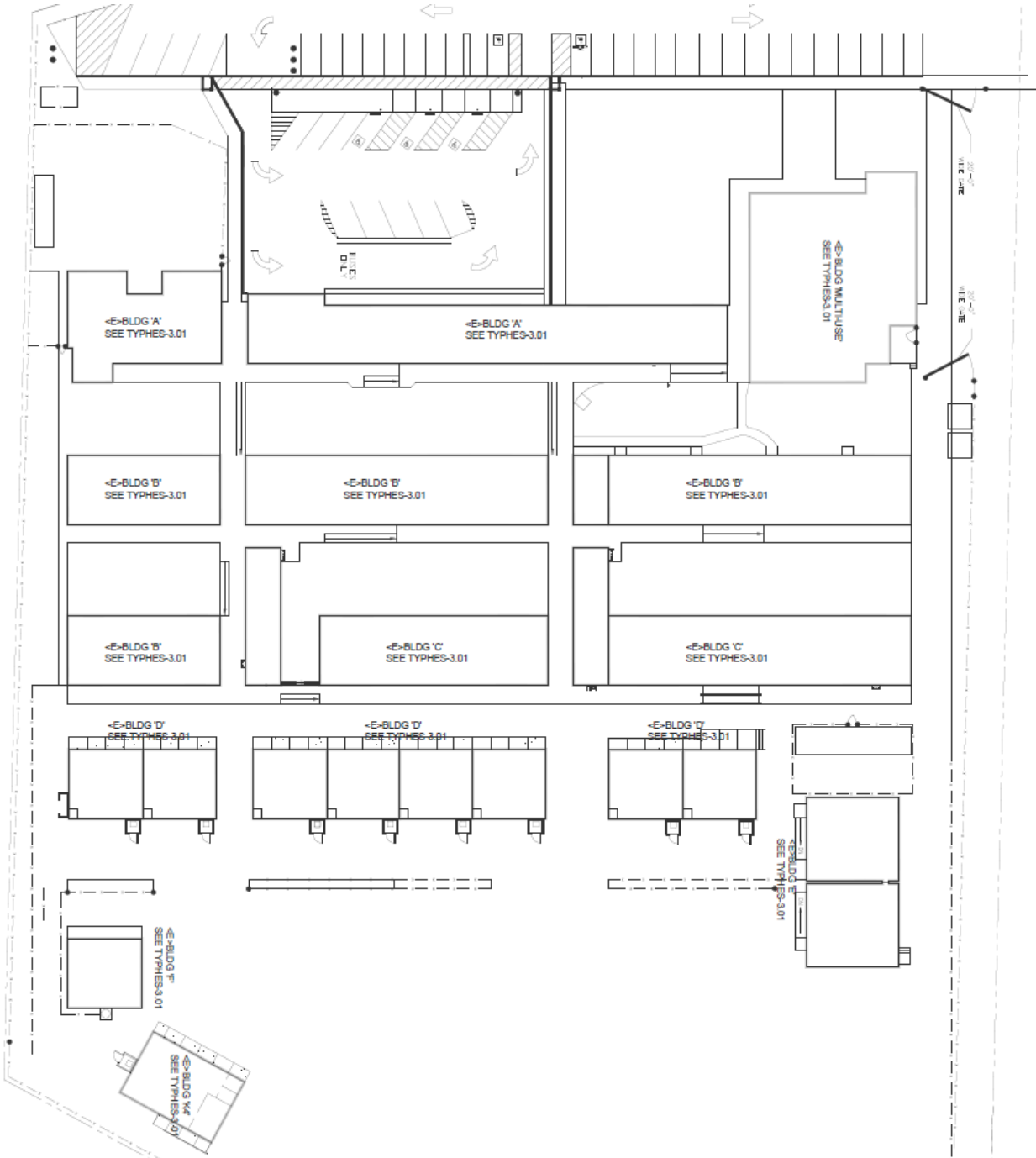
Bancroft Elementary School
2200 Parish Drive, Walnut Creek, CA 94596



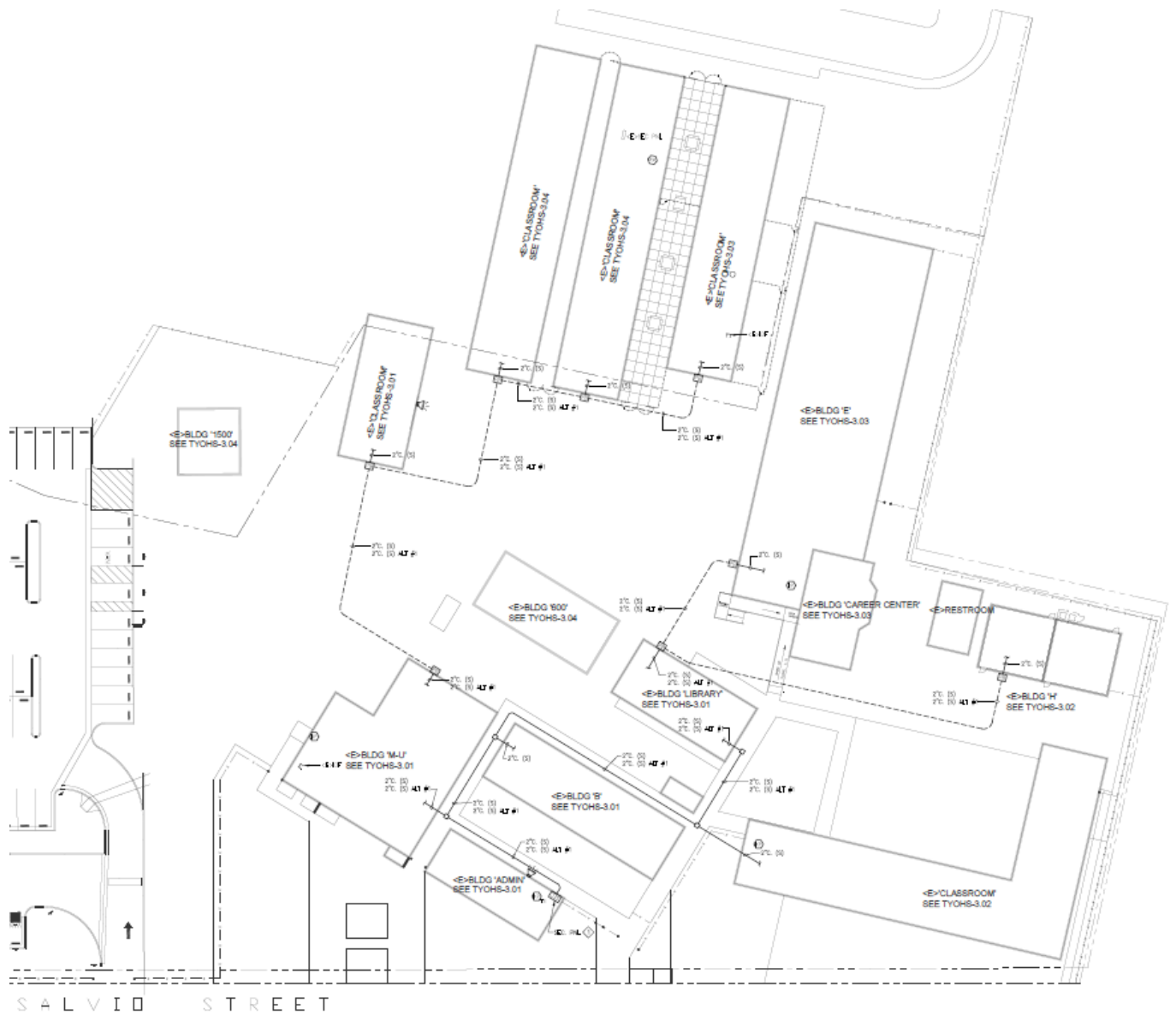
Monte Gardens Elementary School
3841 Larkspur Drive, Concord, CA 94519



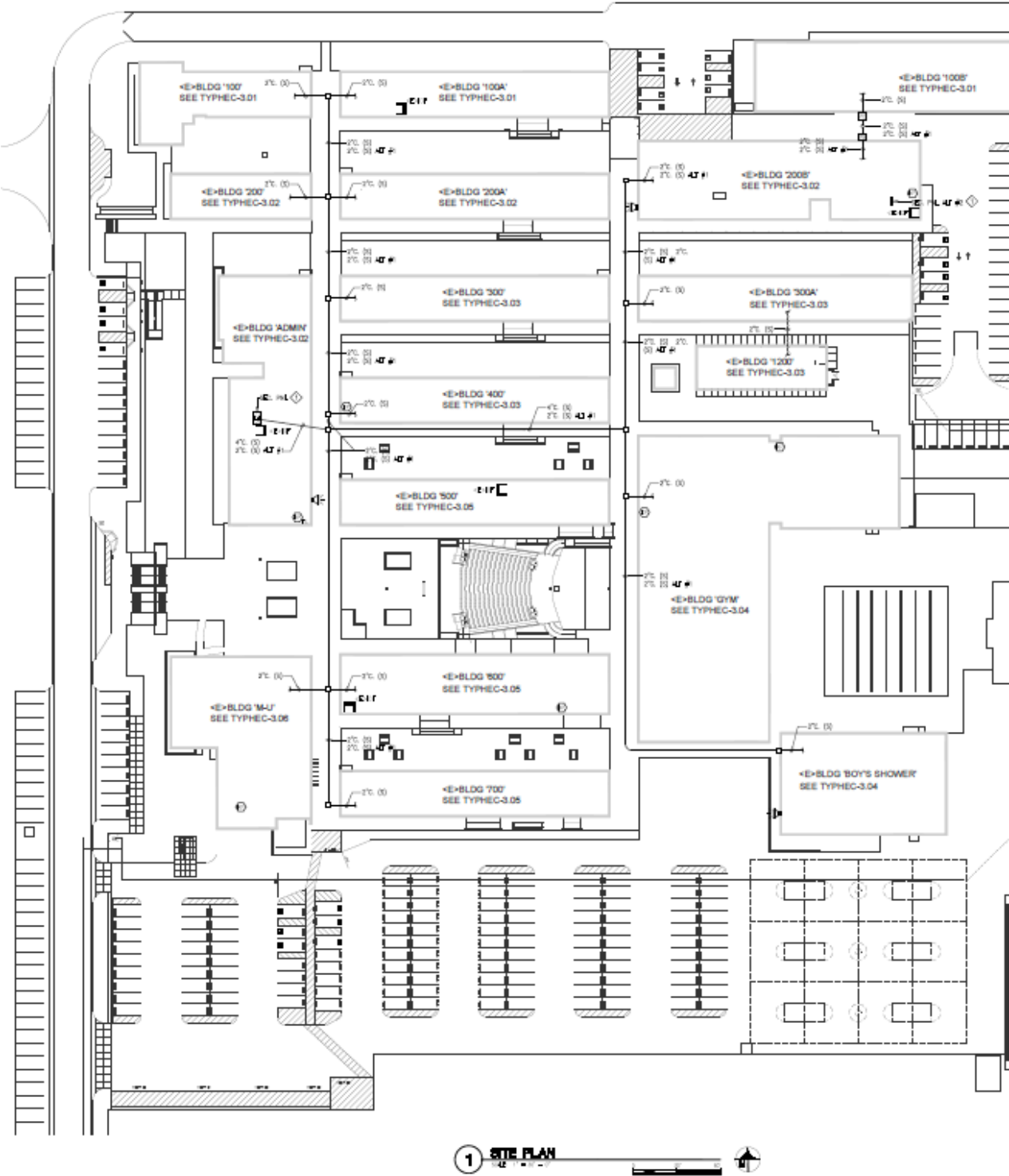
Pleasant Hill Elementary School
2097 Oak Park Blvd. Pleasant Hill, CA 94523



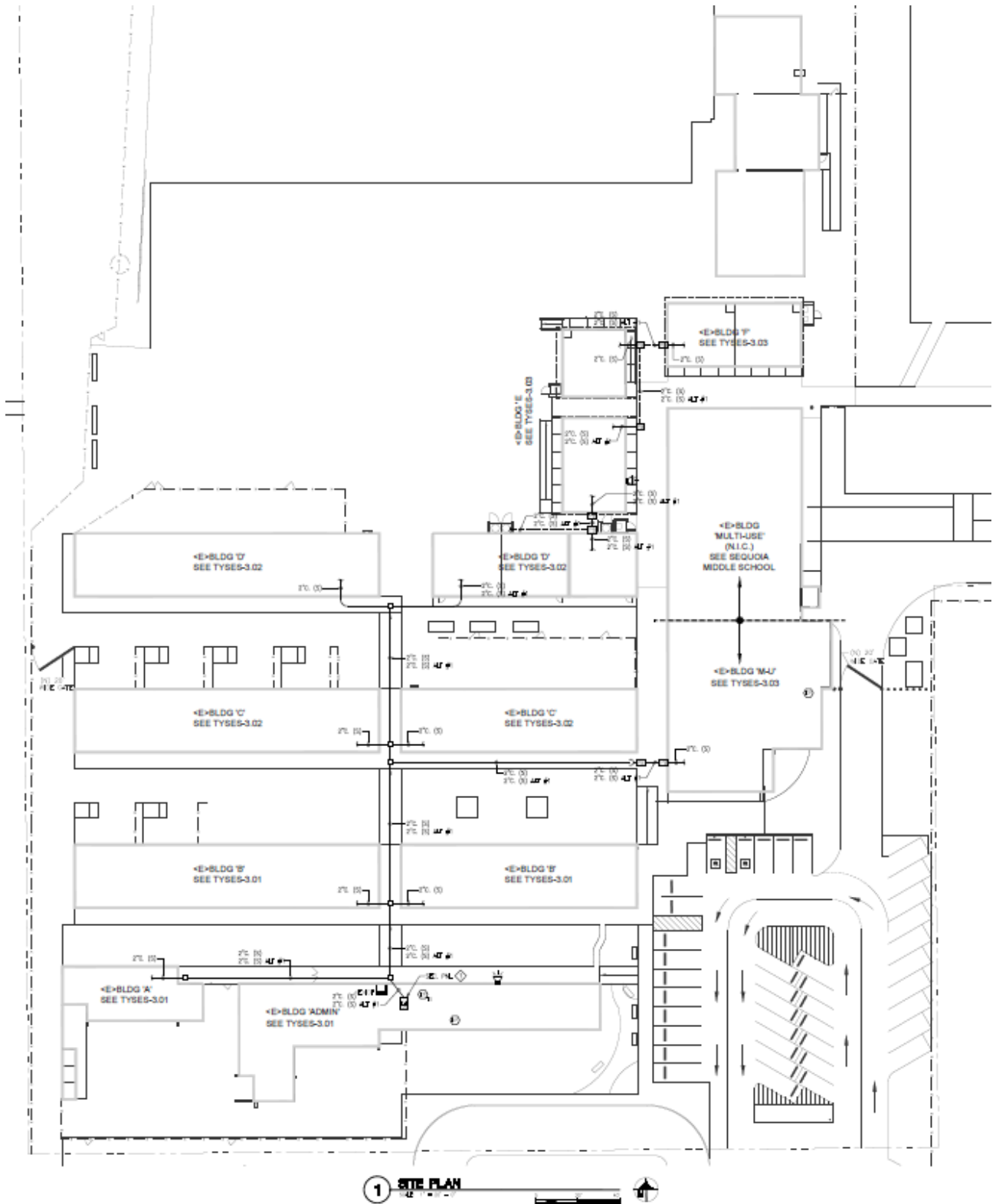
Olympic High School
2730 Salvio Street, Concord CA 94519



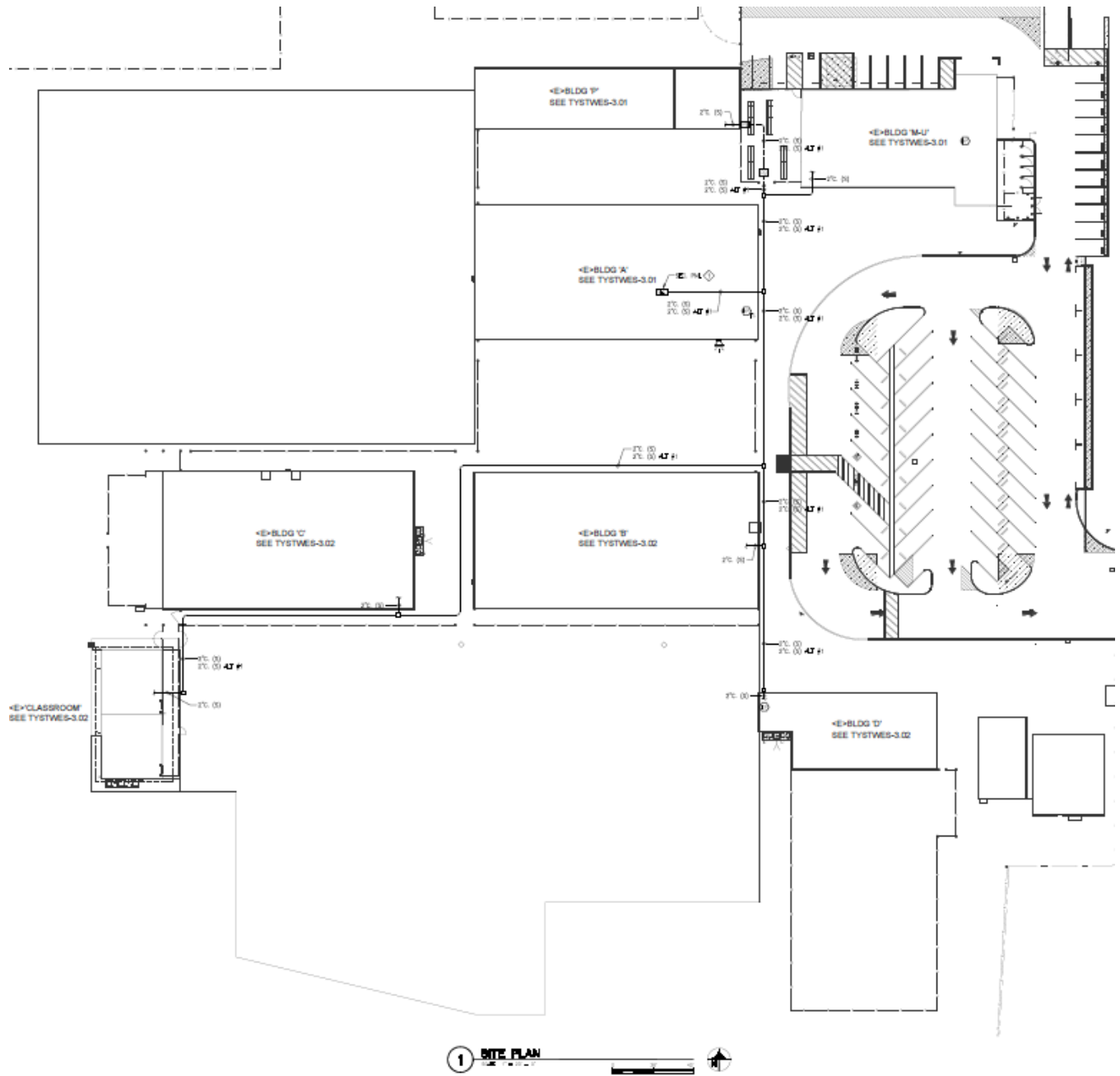
Pleasant Hill Education Centers / Middle School
 One Santa Barbara Road, Pleasant Hill CA 94523



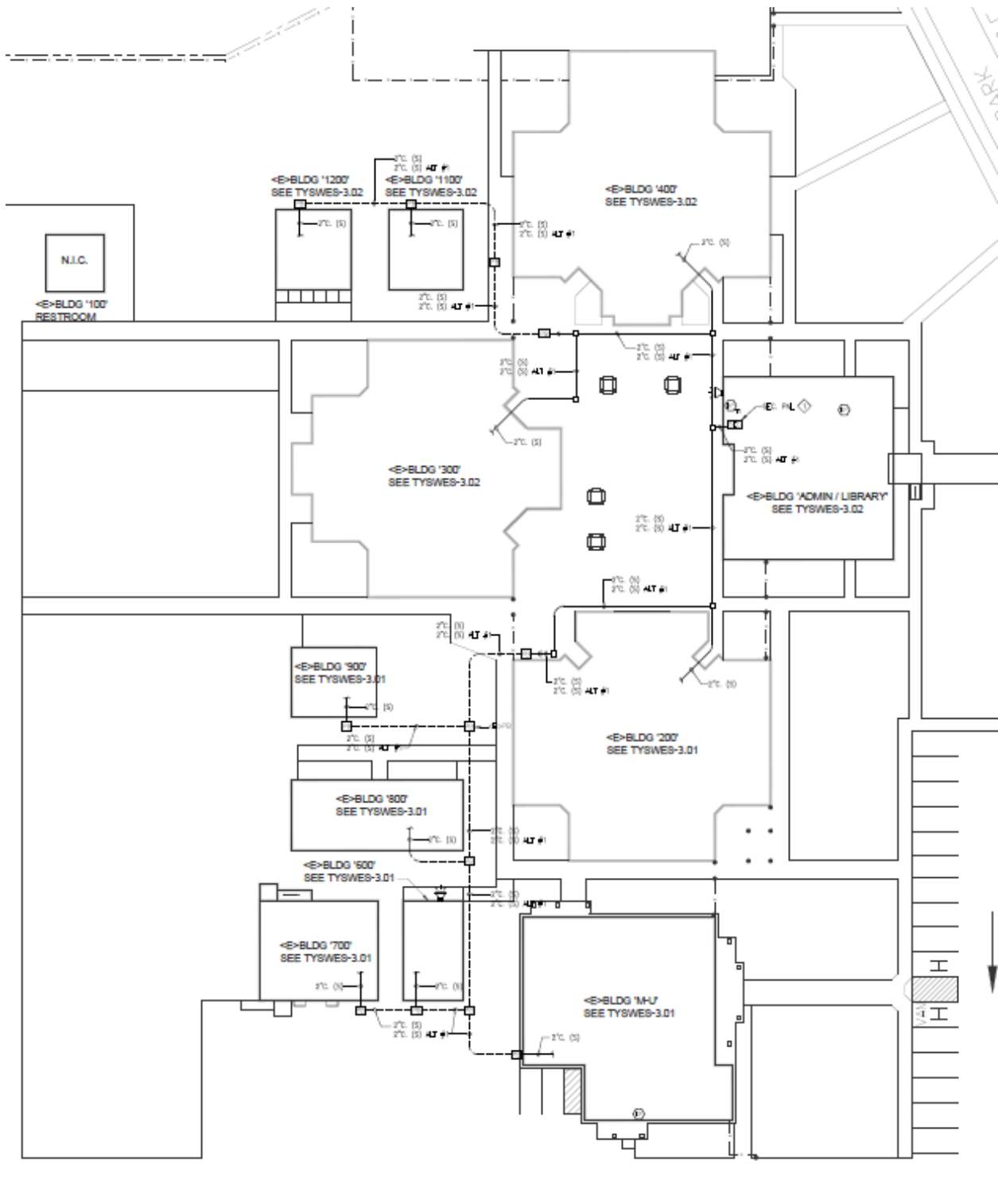
Sequoia Elementary School
277 Boyd Drive, Pleasant Hill CA 94523



Strandwood Elementary School
416 Gladys Drive, Pleasant Hill, CA 94523

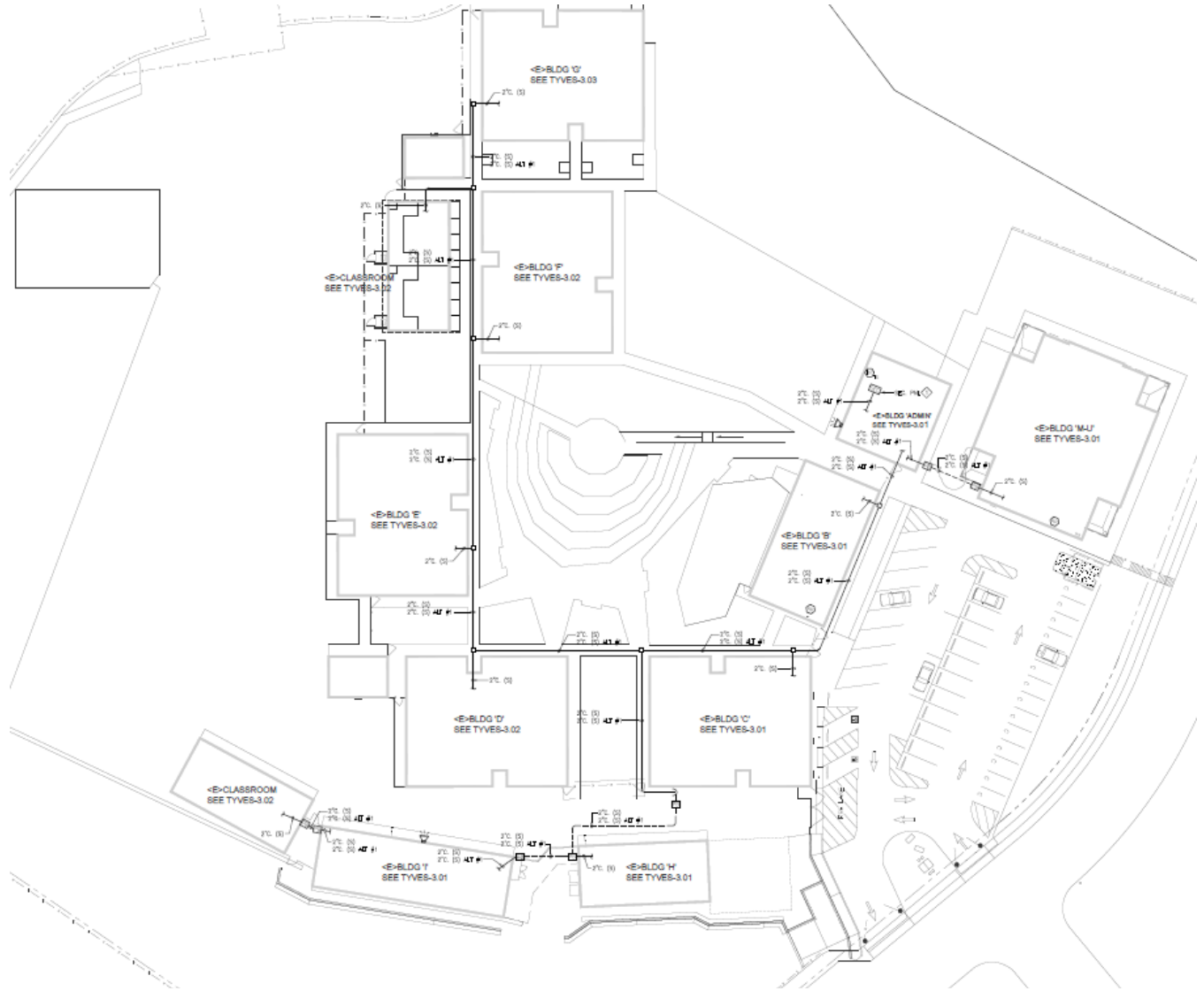


Silverwood Elementary School
1649 Claycord Ave, Concord CA, 94521

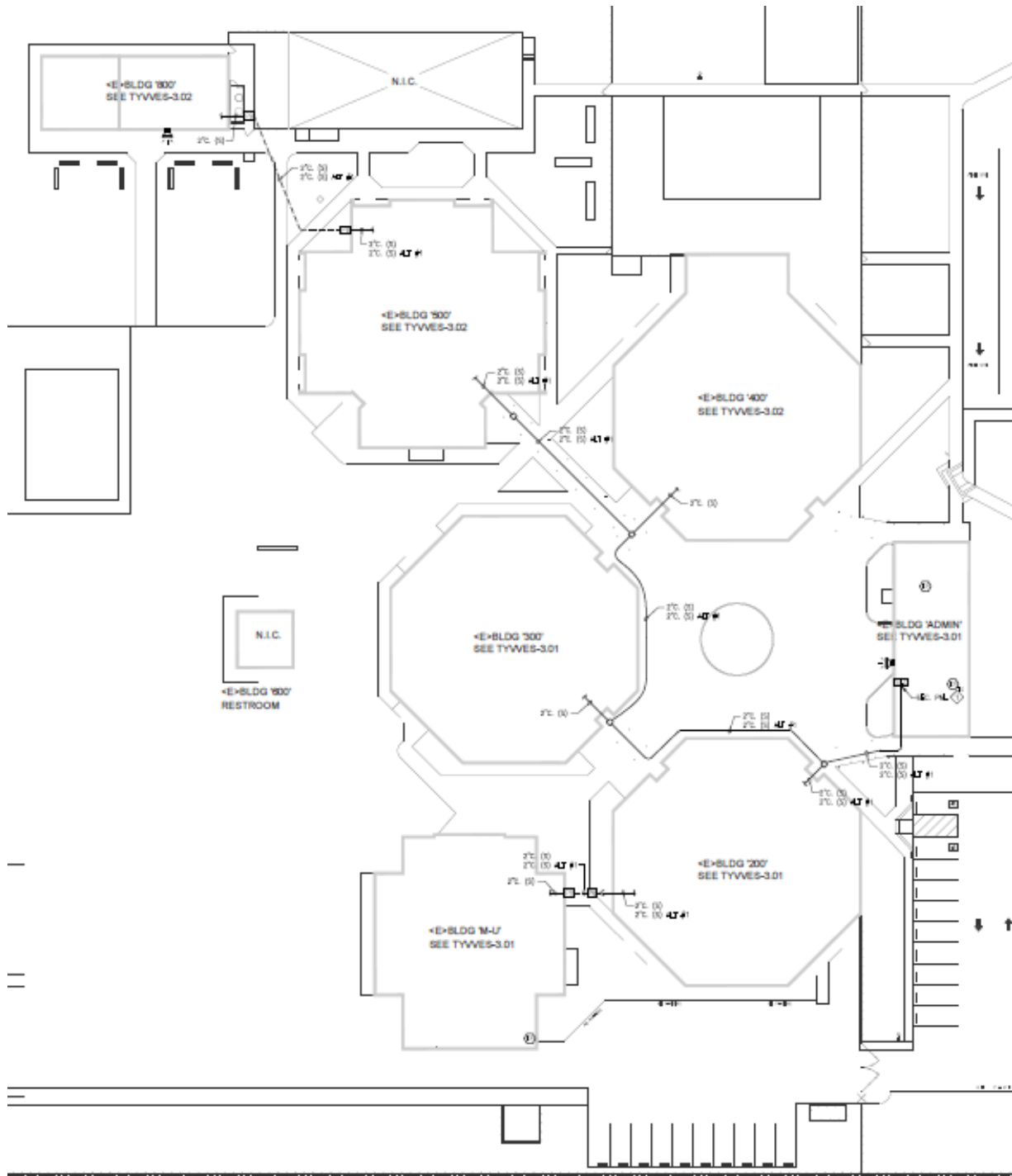


1 SITE PLAN
SCALE: 1" = 10'-0"

Valhalla Elementary School
530 Kiki Drive, Pleasant Hill, CA 94523

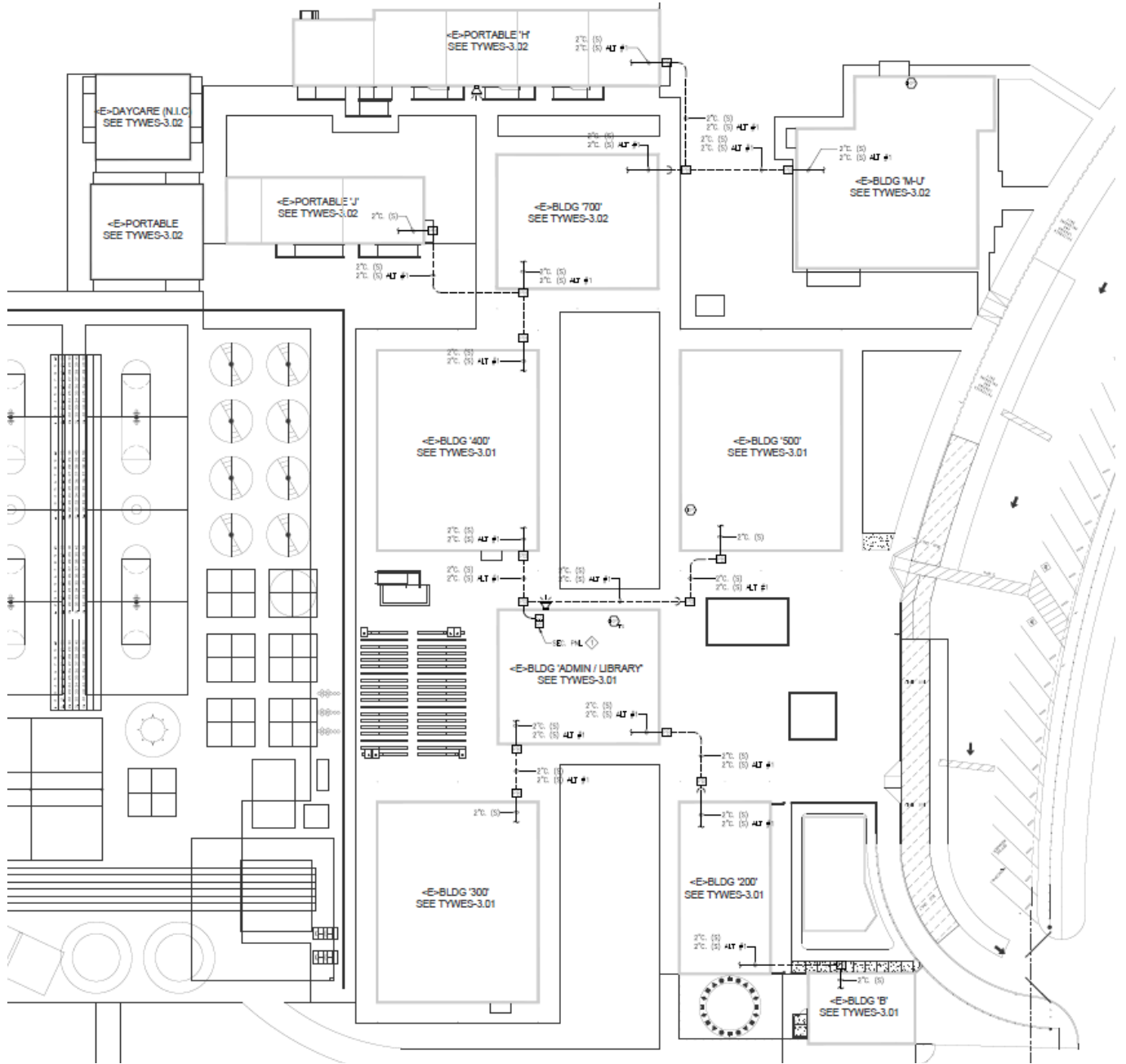


Valle Verde Elementary School
 3275 Peachwillow Lane, Walnut Creek CA, 94598

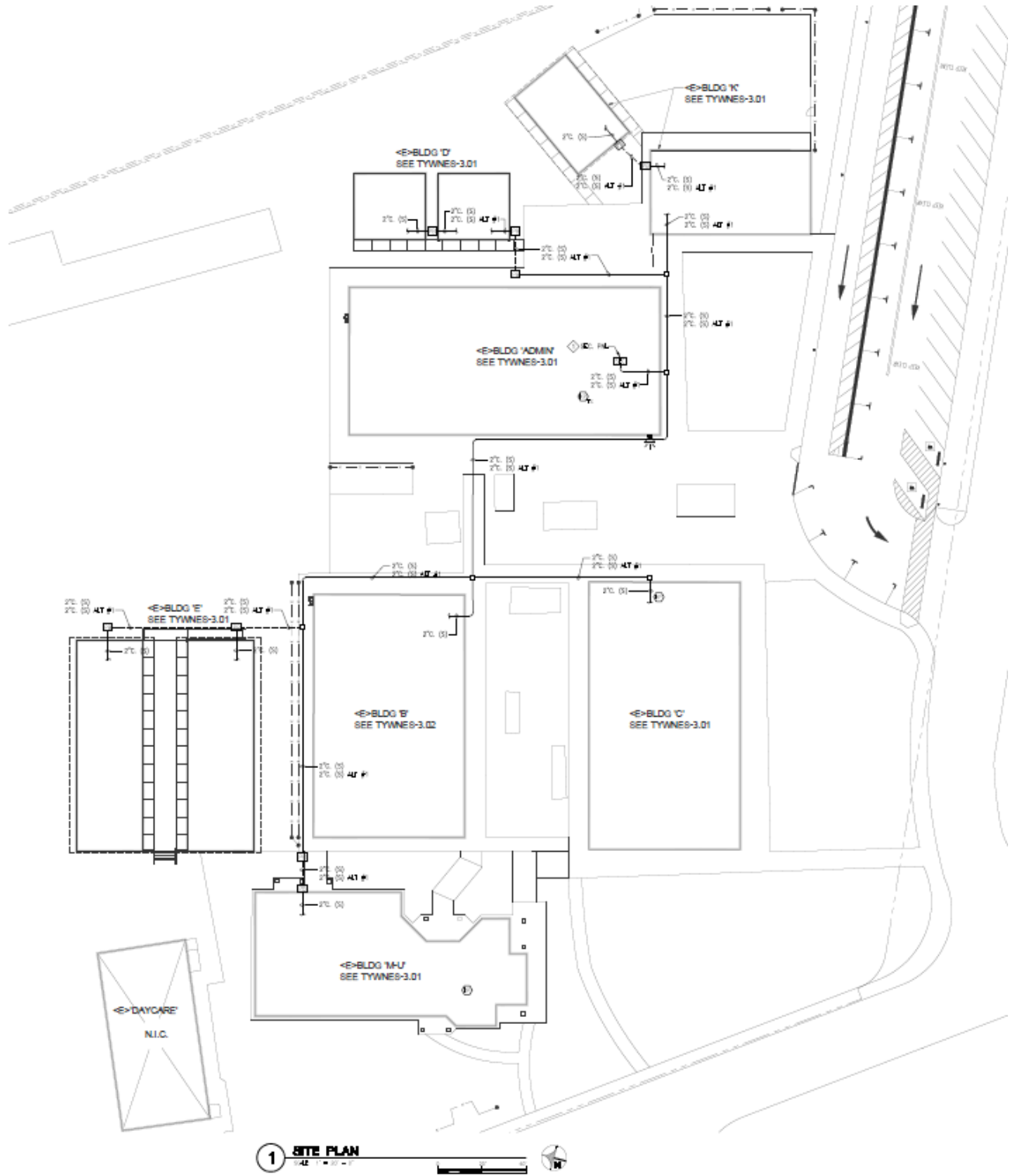


1 SITE PLAN

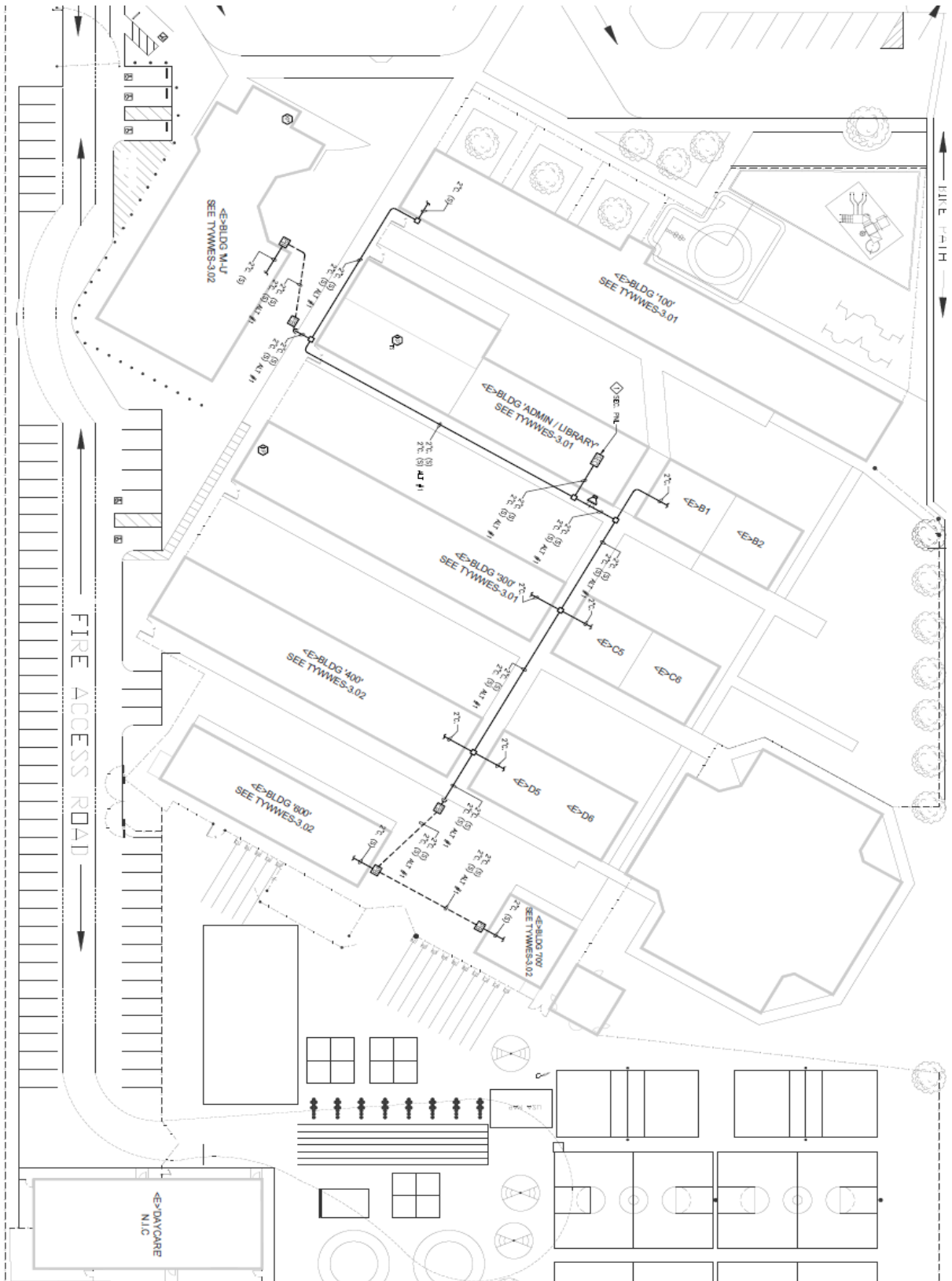
Woodside Elementary School
761 San Simeon Drive, Concord CA, 94518



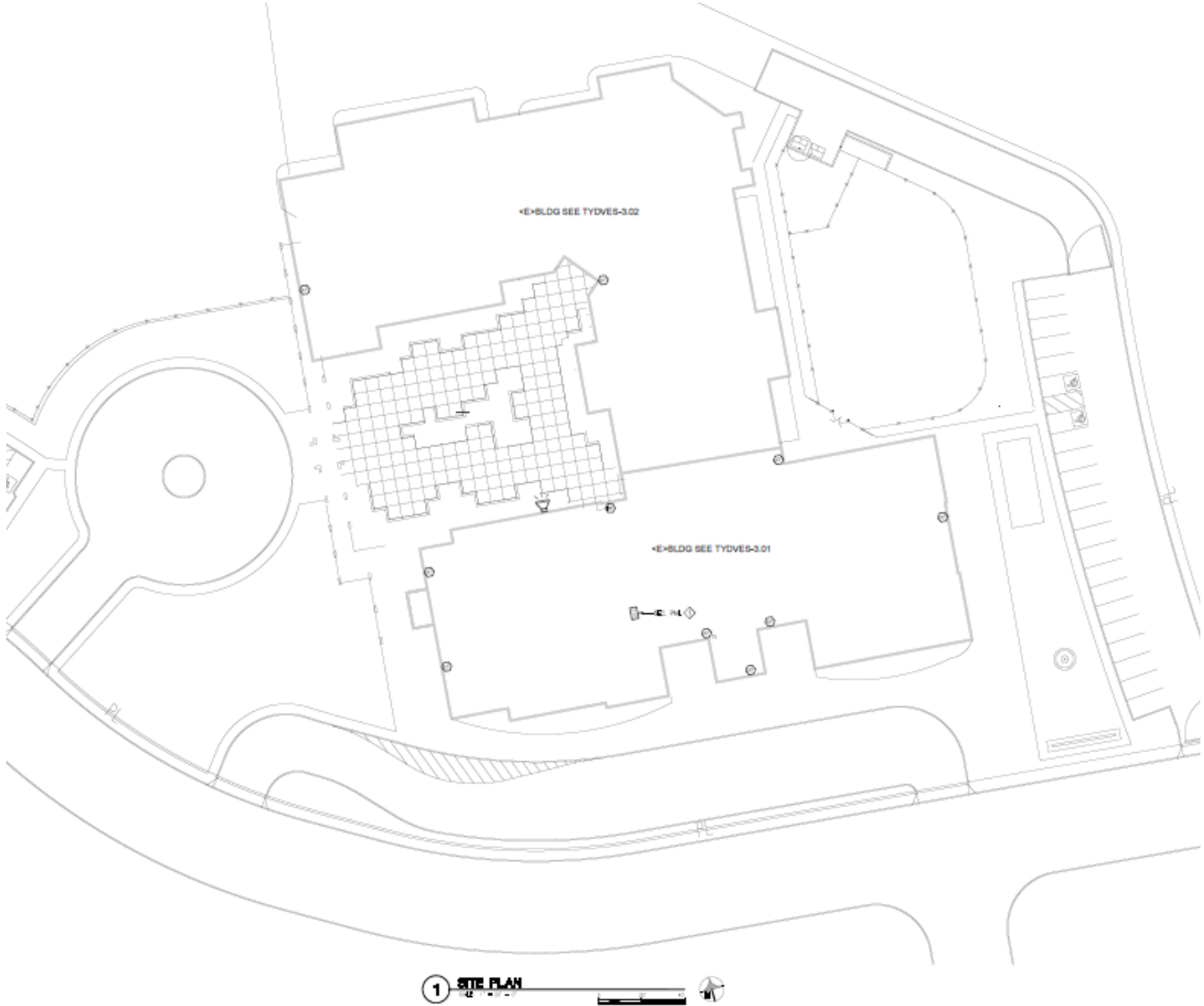
Walnut Acres Elementary School
180 Cerezo Drive, Walnut Creek, CA 94596



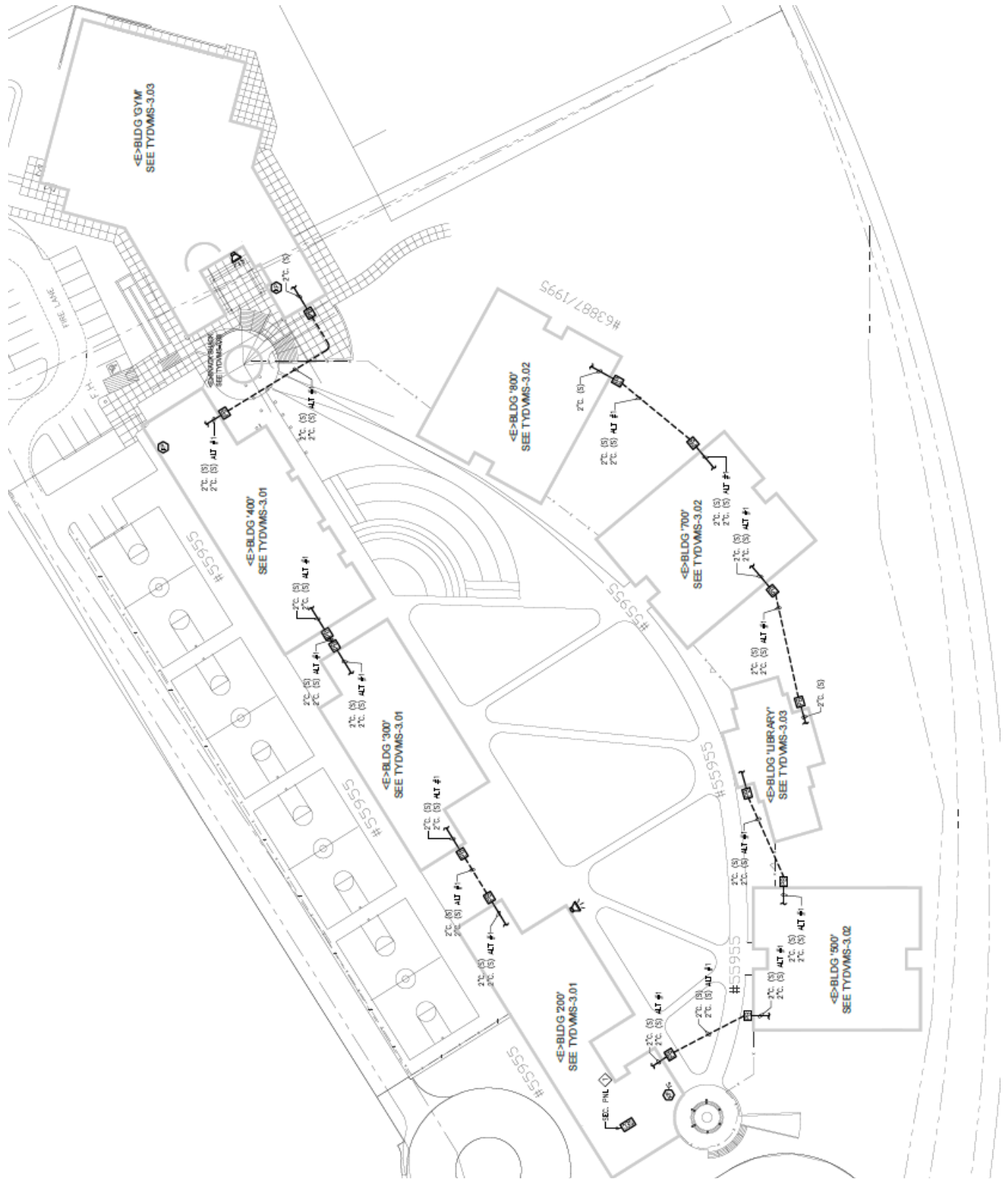
Westwood Elementary School
1748 West Street, Concord, CA 94521



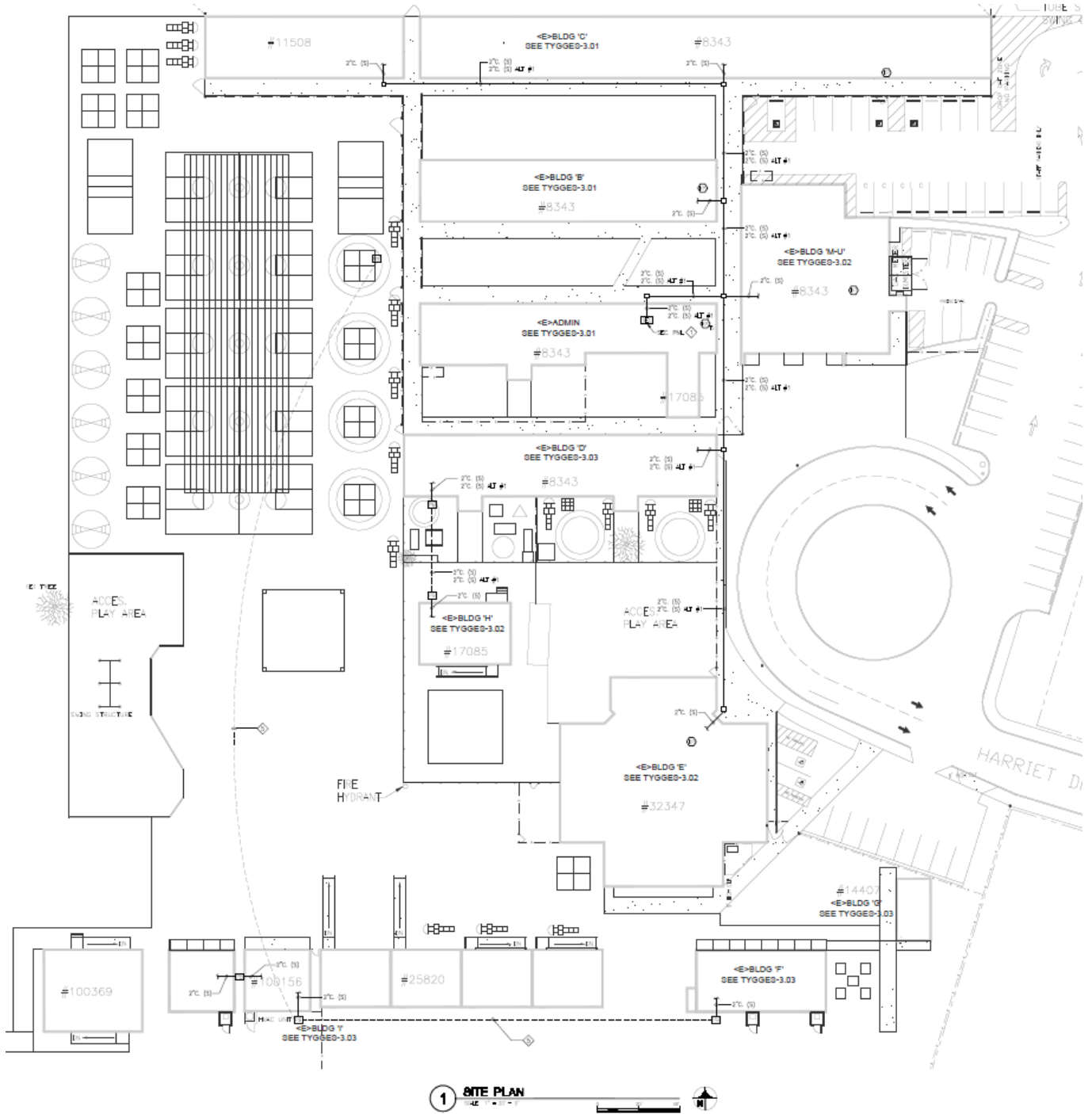
**Delta View Elementary School
2916 Rio Verde, Bay Point, CA 94565**



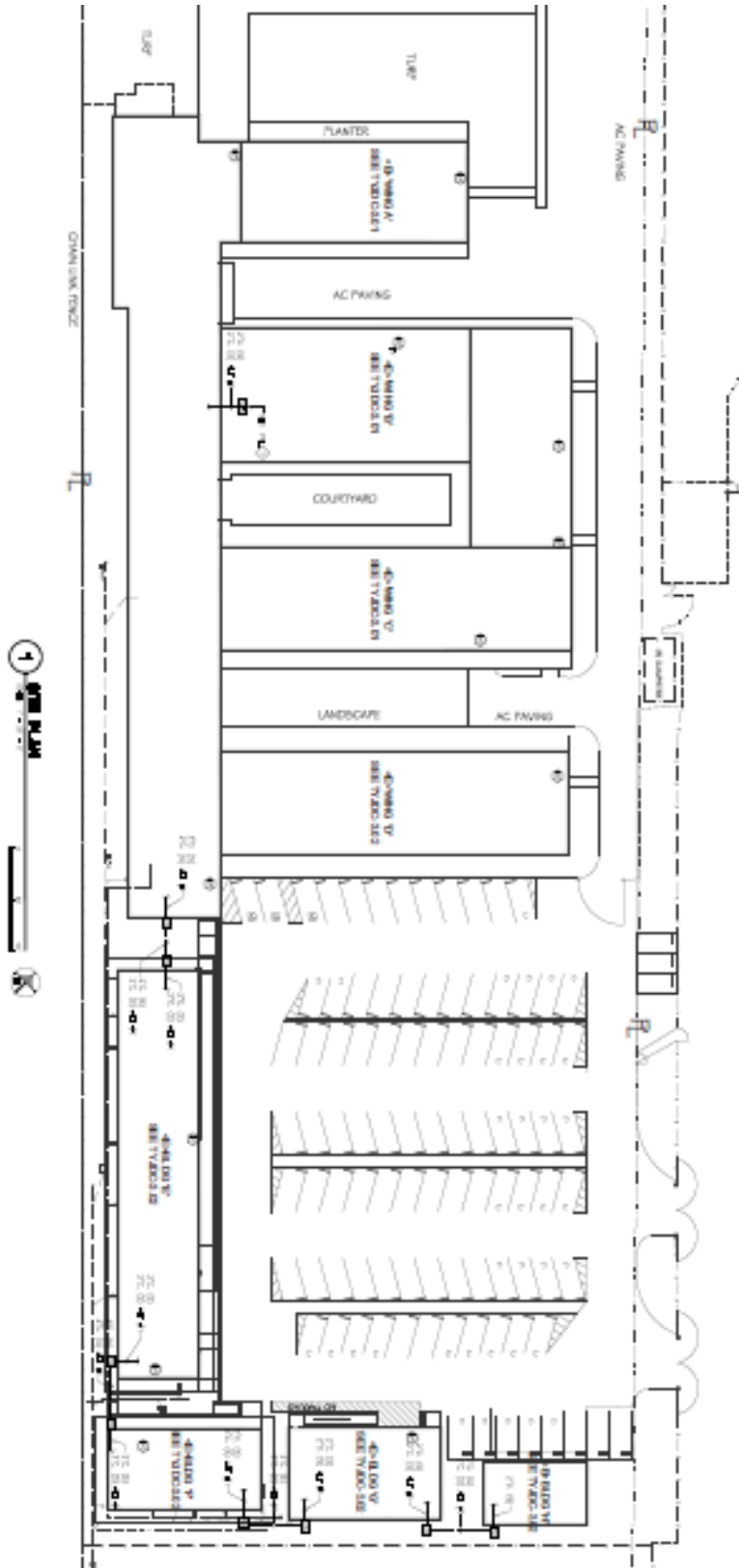
Diablo View Middle School
300 Diablo View Lane, Clayton CA, 94517



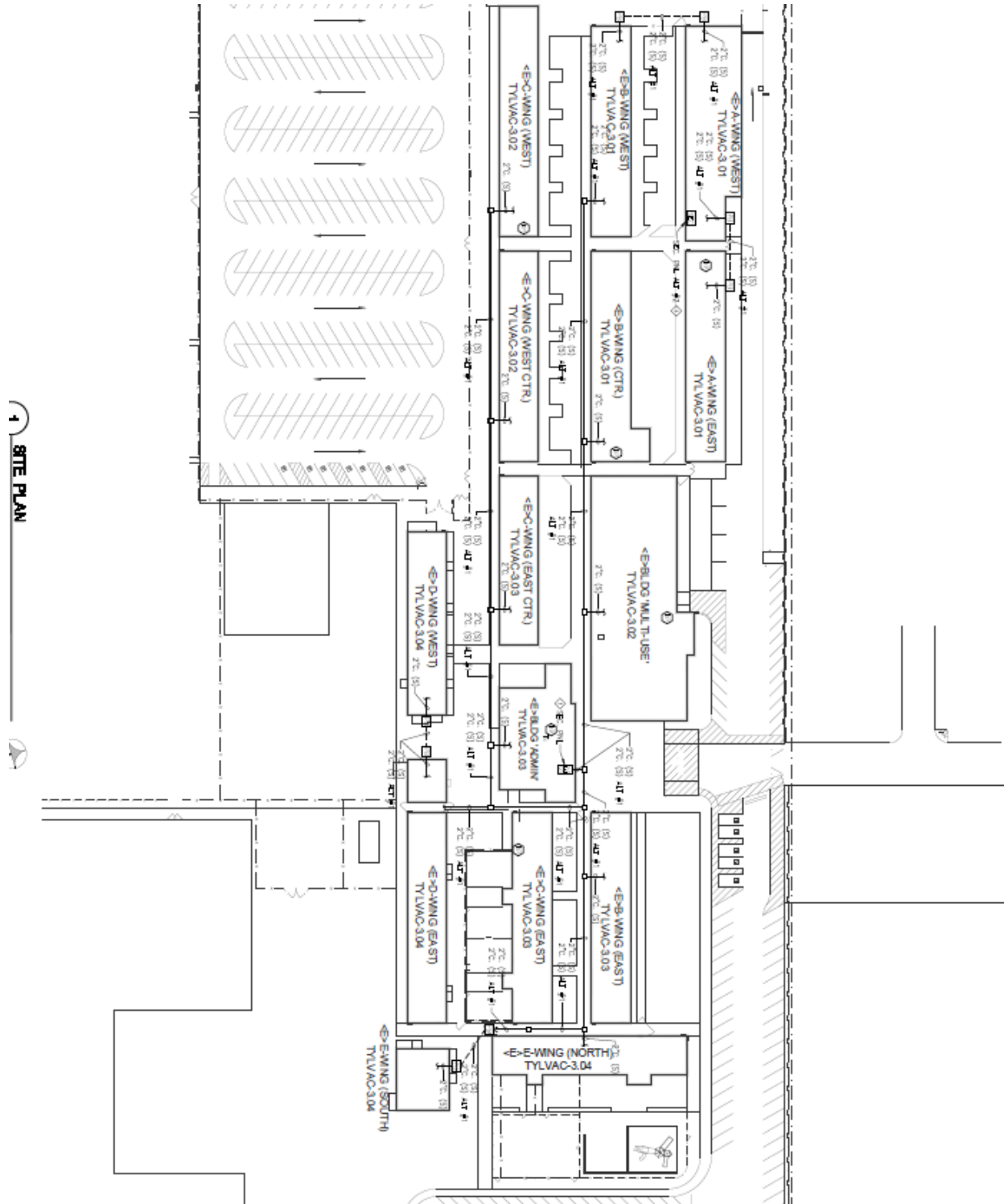
Gregory Gardens Elementary School
1 Corritone Court, Pleasant Hill, CA 94523



James Dent Administration Center
1936 Carlotta Drive, Concord, CA 94519

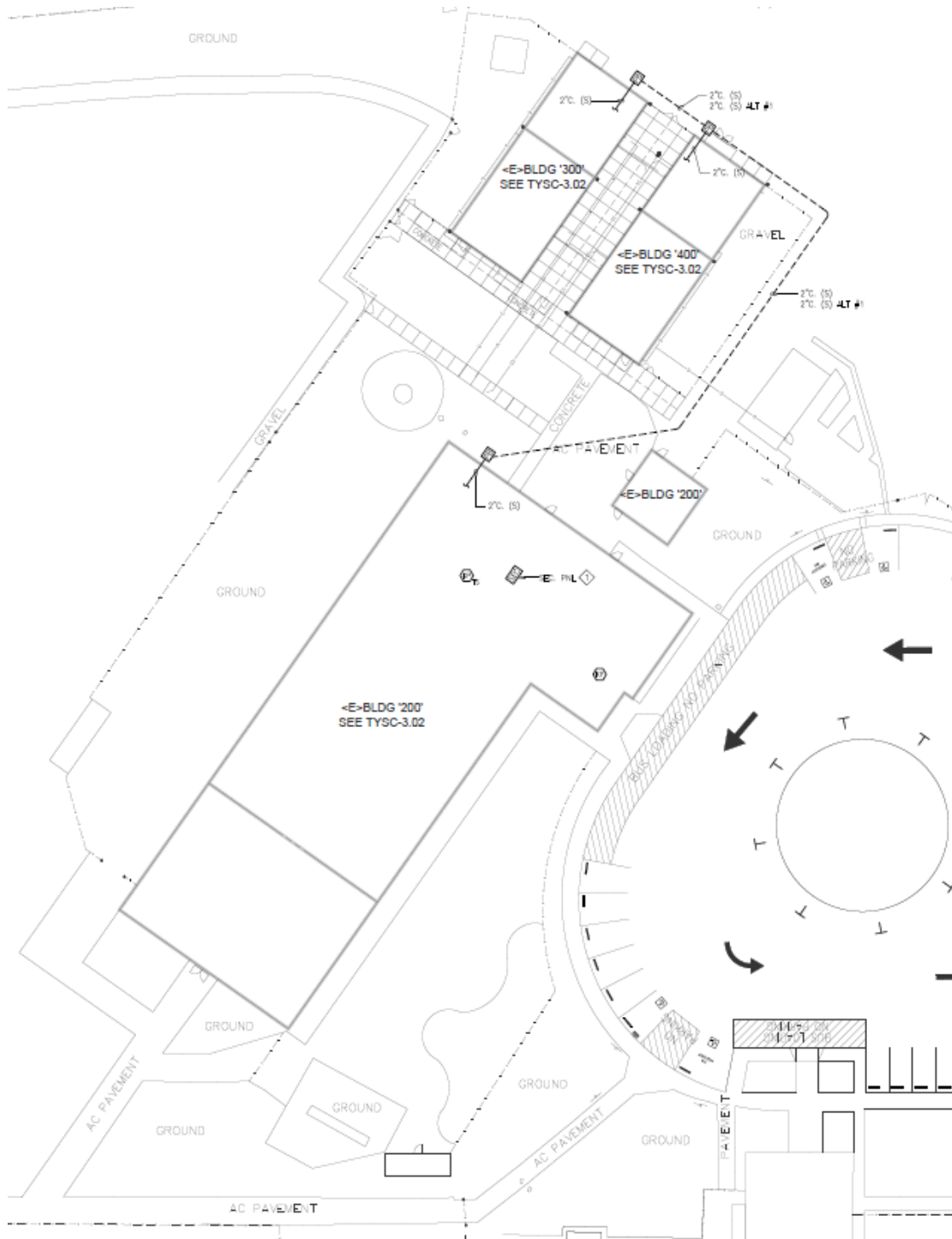


Loma Vista Adult Center
1266 San Carlos Avenue, Concord, CA 94518

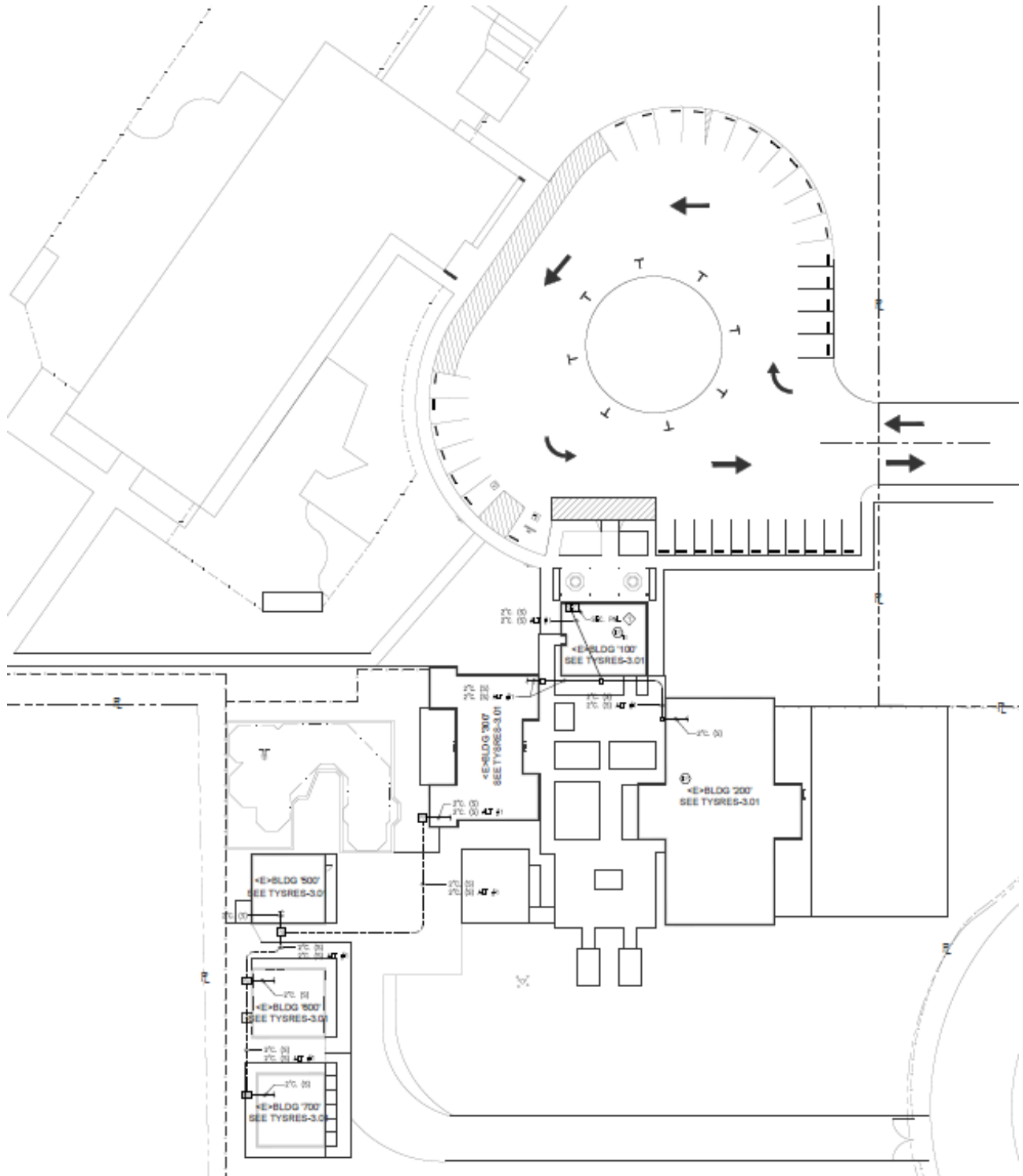


1 SITE PLAN

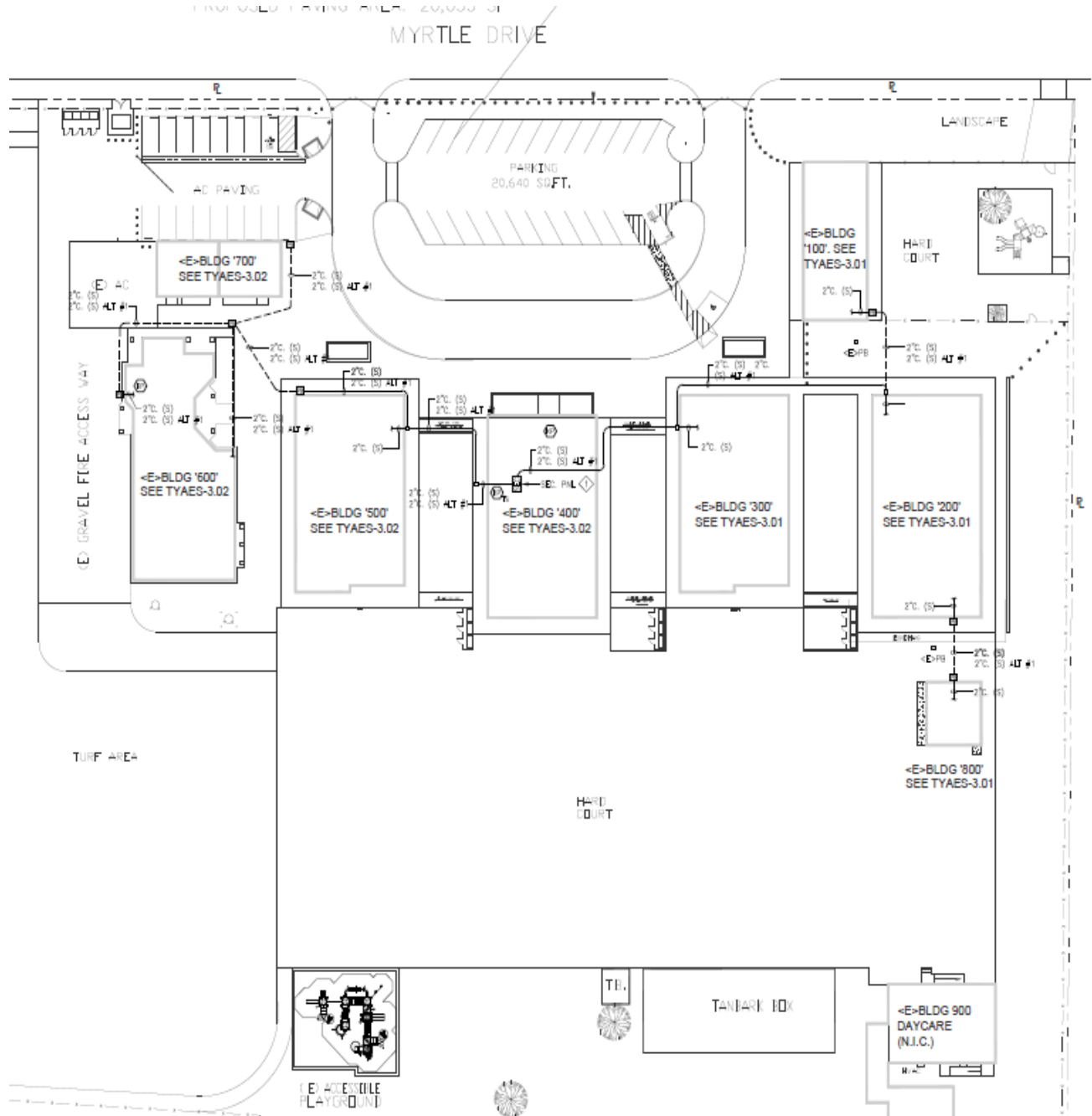
Shadelands Center
1860 Silverwood Drive, Concord, CA 94519



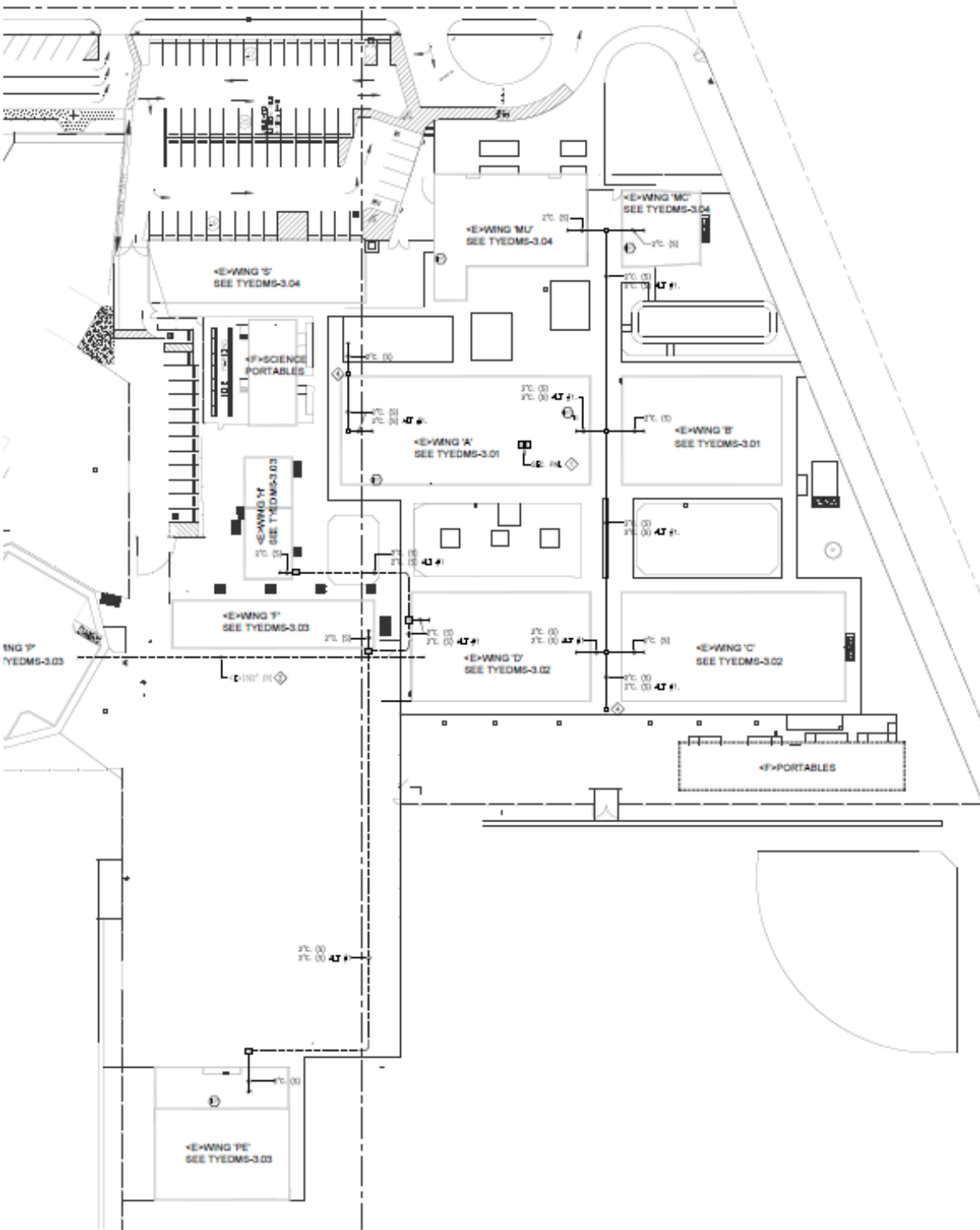
Sunrise Elementary School
1861 Silverwood Drive, Concord, CA 94519



Ayers Elementary School
5120 Myrtle Drive, Concord, CA 94521

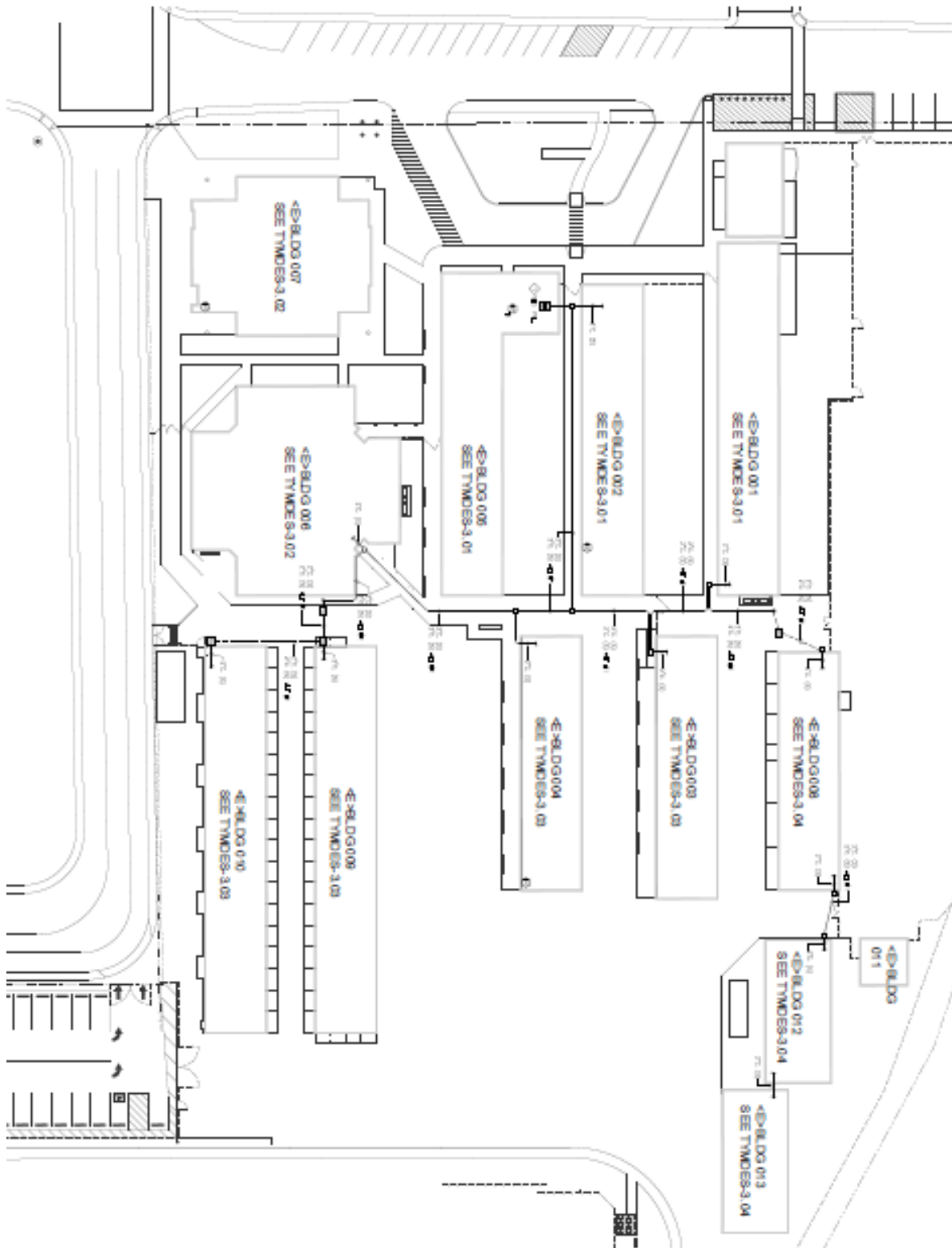


El Dorado Middle School
1750 West street, Concord, CA 94521

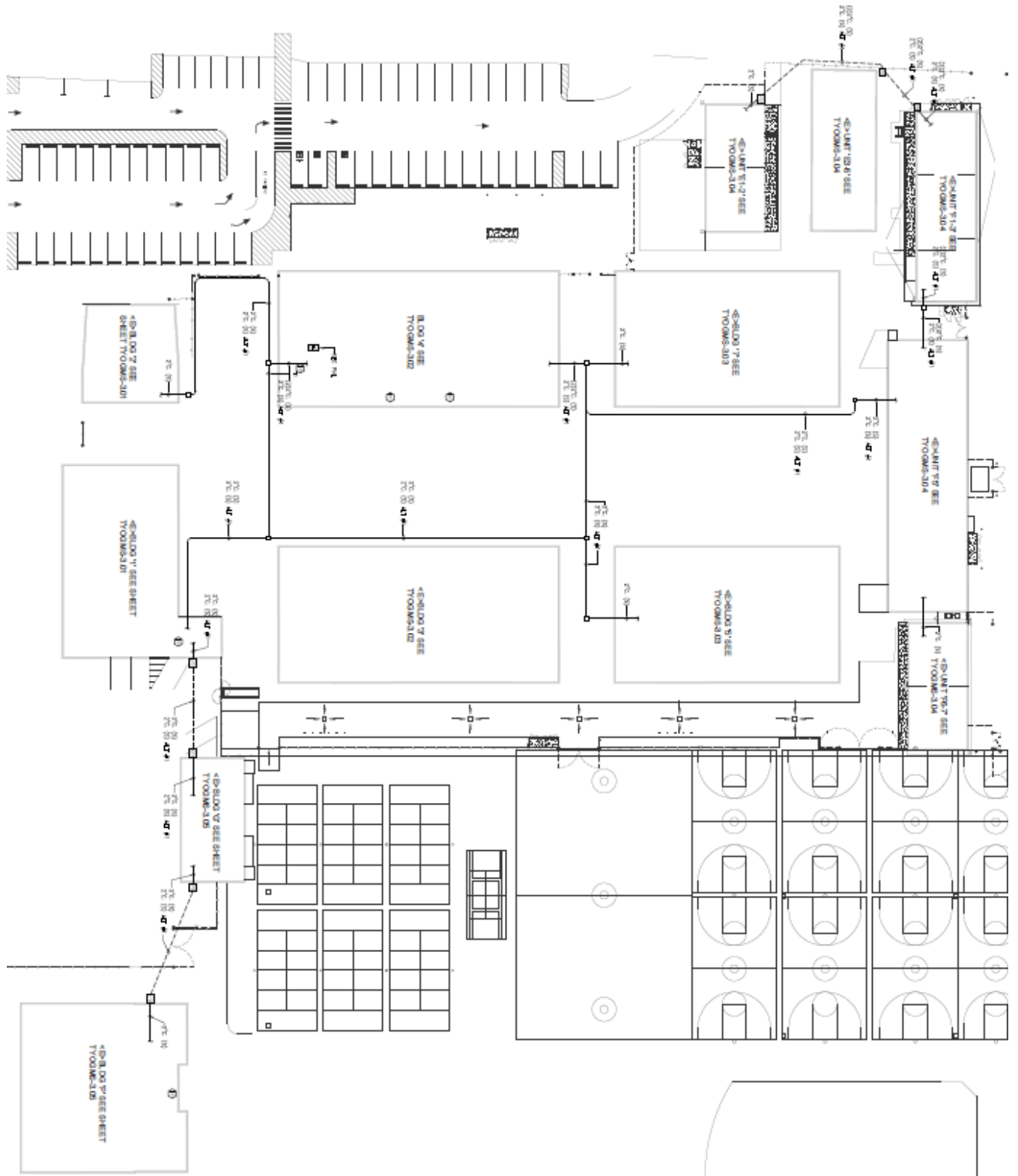


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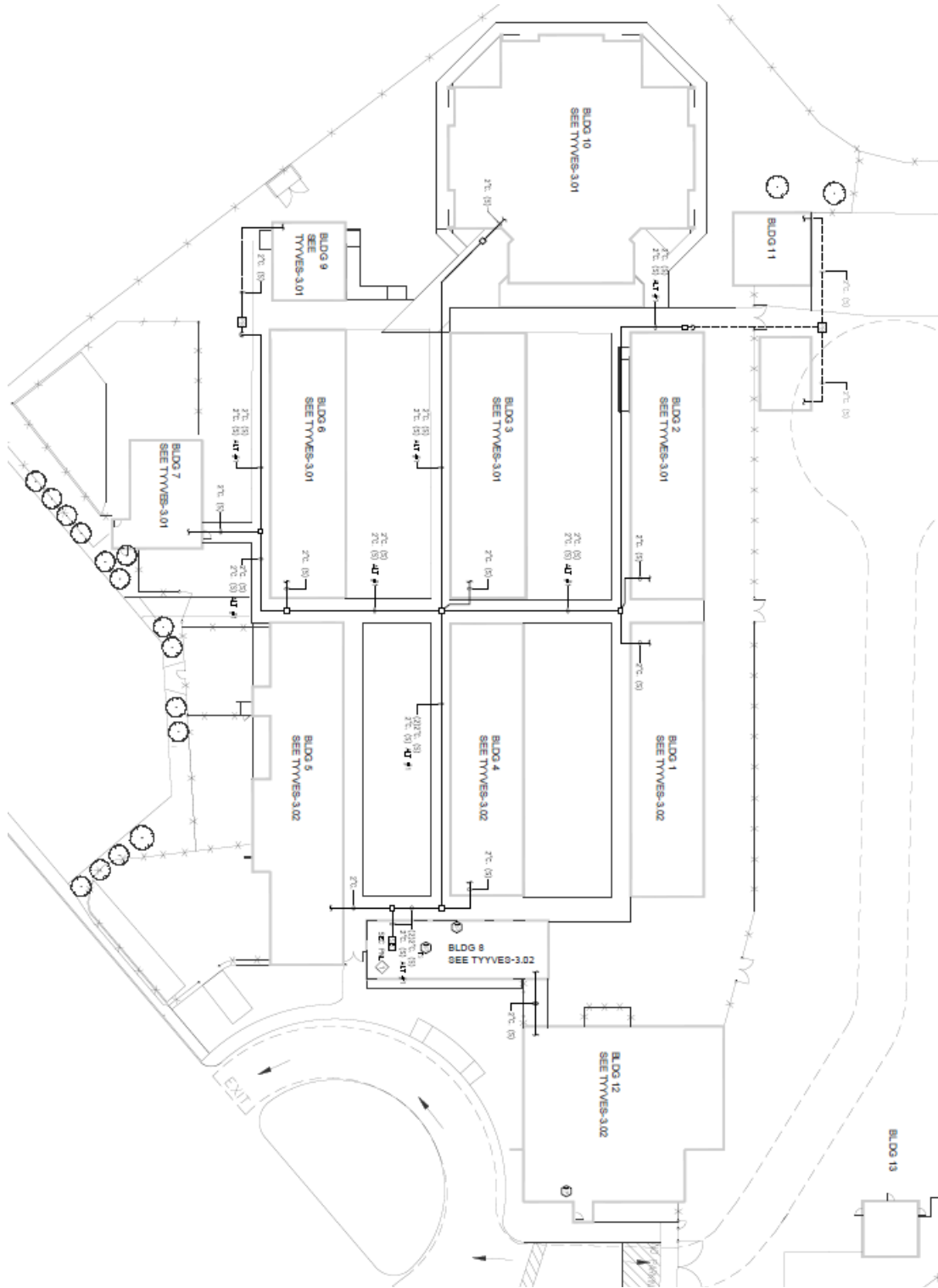
Mt Diablo Elementary School
5880 Mt. Zion Drive, Clayton, CA 94517



Oak Grove Middle School
2050 Minert Road, Concord, CA 94518



Ygnacio Valley Elementary School
2217 Chalomar Road, Concord, CA 94518



Attachment "C"
Services: Costs & Schedule

Services See Attachment A	
General Services Items 1 thru 10 inclusive	No Cost
Review of Design Documents items 1 thru 2 inclusive	No Cost
Budget of Project Costs Items 1 thru 3 inclusive	No Cost
Construction Schedule (and Phasing) inclusive	No Cost
Construction planning and bidding items 1 thru 4 inclusive	No Cost
And no others	

EXHIBIT I

CERTIFICATES AND BONDS TO LEASE-LEASEBACK DOCUMENTS
AND
DIVISION 1 DOCUMENTS TO LEASE-LEASEBACK DOCUMENTS

See Attached Exhibit I

EXHIBIT J

PLANS, TECHNICAL SPECIFICATIONS, AND DRAWINGS

TECHNICAL SPECIFICATIONS

**Project Manual for MDUSD # 1627 RFQ/RFP MDUSD Measure-C: District Wide Security Upgrades,
Prepared By Salas O'Brian, Inc. of San Jose, California, dated July 05, 2013**

PLANS/DRAWINGS:

**2010 Measure-C projects, MDUSD Project # 1627
District Wide Security System Upgrades (Dated: July 5, 2013)**

EXHIBIT K

REVISIONS TO CONTRACT DOCUMENTS FOR

Measure C Primary schools and Pleasant Hill Middle school Technology Improvements

FACILITIES LEASE

Section 3.4 (Operating School): The phasing plan shall be as indicated in Exhibit F-1.

Section 3.6 (No Work during Student Testing): The following dates and times apply to this section:

- Each January: Two (2) days (Finals)
- Each March: Two (2) days (CAHSEE)
- Each June: Two (2) days (Finals)
- Each April - May: Ten (15) days (STAR and AP)
- Refer to Exhibit F-1 and F-2

EXHIBIT D TO FACILITIES LEASE

Section 6.2.1 [Staffing Requirement]: The minimum staffing for the Project shall be a competent:

- Project Manager,
- Construction Superintendent, one at each site
- Project Engineer, and
- Project Administrator

Developer shall provide with its proposal the name and resume for each specific individual that it is proposing for each position. Those persons shall be made available for interviews with the District, if requested

Section 7.3.1 [Minimum Subcontractor/Trade Contractor Bids]: The minimum number of bona fide bids from Subcontractors for a specific trade shall be as follows:

- For Subcontractors on scopes of Work with bids up to One Hundred Thousand Dollars (\$100,000):
 - **Three (3) Bids**
- For Subcontractors on scopes of Work with bids One Hundred Thousand One Dollars to Five Hundred Thousand Dollars (\$100,001 - \$500,000):
 - **Four (4) Bids**
- For Subcontractors on scopes of Work with bids from Five Hundred Thousand One Dollars (\$500,001) and above:
 - **Seven (7) Bids**

Section 15.1.1.4: The number of days that must be exceeded to claim extra time for "Adverse Weather":

January	<u>6</u>	July	<u>0</u>
February	<u>5</u>	August	<u>0</u>
March	<u>4</u>	September	<u>1</u>
April	<u>3</u>	October	<u>2</u>
May	<u>1</u>	November	<u>4</u>
June	<u>0</u>	December	<u>5</u>

DIVISION 1 DOCUMENTS

**Certificates and Bonds to
Lease-Leaseback Documents**

And

**Division 1 Documents to
Lease-Leaseback Documents**

**MOUNT DIABLO UNIFIED SCHOOL DISTRICT
Project #1627
2010 Measure-C Projects – District Wide Security System upgrades**

**with
Mount Diablo Unified School District (MDUSD)
and
Taber Construction, Inc.**

NONCOLLUSION AFFIDAVIT
Public Contract Code § 7106

TO BE EXECUTED BY DEVELOPER

STATE OF CALIFORNIA)
) ss.
COUNTY OF Contra Costa)

Bret Taber being first duly sworn

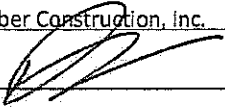
deposes and says that he or she is President
of Taber Construction Inc.

the Developer making the foregoing Contract or previous proposals related to the Contract, that the Contract is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the Contract is genuine and not collusive or sham; that the Developer has not directly or indirectly induced or solicited any other contractor to put in a false or sham proposal, and has not directly or indirectly colluded, conspired, connived, or agreed with any contractor or anyone else to put in a sham proposal, or that anyone shall refrain from proposing; that the Developer has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix its proposal or the Contract price of the Developer or any other contractor, or to fix any overhead, profit, or cost element of the proposal or the Contract price, or of that of any other contractor, or to secure any advantage against the District of anyone interested in the proposed Contract; that all statements contained in its proposal and Contract are true; and, further, that the Developer has not, directly or indirectly, submitted his or her proposal or the Contract price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham proposal or Contract.

I certify and declare under penalty of perjury under the laws of the State of California that all the foregoing information in this Noncollusion Affidavit is true and correct.

Date: October 29, 2013

Proper Name of Developer: Taber Construction, Inc.

Signature: 

Print Name: Bret Taber

Title: President

(ATTACH NOTARIAL ACKNOWLEDGMENT FOR THE ABOVE SIGNATURE)

END OF DOCUMENT

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

State of California

County of CONTRA COSTA

On 10-29 before me, JOAQUINA R. NINETE
Date Here Insert Name and Title of the Officer

personally appeared BRET TABER
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: [Signature]
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: NONCOLLUSION AFFIDAVIT

Document Date: 10-29-13 Number of Pages: 1

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: BRET TABER Signer's Name: _____

Corporate Officer — Title(s): PRESIDENT Corporate Officer — Title(s): _____

Individual Partner — Limited General Individual Partner — Limited General

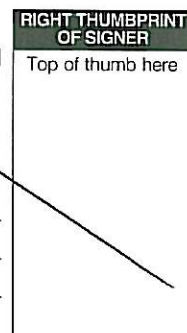
Attorney in Fact Attorney in Fact

Trustee Trustee

Guardian or Conservator Guardian or Conservator

Other: _____ Other: _____

Signer Is Representing: _____ Signer Is Representing: _____



WORKERS' COMPENSATION CERTIFICATION

Labor Code section 3700 in relevant part provides:

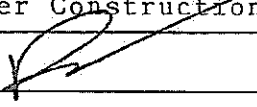
Every employer except the State shall secure the payment of compensation in one or more of the following ways:

- 1 By being insured against liability to pay compensation by one or more insurers duly authorized to write compensation insurance in this state.
- 2 By securing from the Director of Industrial Relations a certificate of consent to self-insure, which may be given upon furnishing proof satisfactory to the Director of Industrial Relations of ability to self-insure and to pay any compensation that may become due to its employees.

I am aware of the provisions of section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the Work of the Contract.

Date: October 29, 2013

Proper Name of Developer: Taber Construction Inc.

Signature: 

Print Name: Bret Taber

Title: President

(In accordance with Article 5 - commencing at section 1860, chapter 1, part 7, division 2 of the Labor Code, the above certificate must be signed and filed with the awarding body prior to performing any Work under the Contract.)

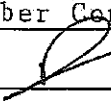
END OF DOCUMENT

PREVAILING WAGE AND
RELATED LABOR REQUIREMENTS CERTIFICATION

I hereby certify that I will conform to the State of California Public Works Contract requirements regarding prevailing wages, benefits, on-site audits with 48-hours notice, payroll records, and apprentice and trainee employment requirements, for all Work on the Project including, without limitation, the labor compliance program, if in use on this Project.

Date: October 29, 2013

Proper Name of Developer: Taber Construction Inc.

Signature: 

Print Name: Bret Taber

Title: President

END OF DOCUMENT

DISABLED VETERAN BUSINESS ENTERPRISE
PARTICIPATION CERTIFICATION

Section 17076.11 of the Education Code requires school districts using funds allocated pursuant to the State of California School Facility Program ("Program") for the construction and/or modernization of school buildings to have a participation goal for disabled veteran business enterprises ("DVBE") of at least three percent (3%), per year, of the overall dollar amount expended each year by the school district on projects that receive state funding.

1. **Disabled Veteran Business Enterprise.** A DVBE is a business enterprise certified by the California Office of Small Business as a DVBE.
2. **DVBE Participation Policy.** The District is committed to achieving this DVBE participation goal. The District encourages Developer to ensure maximum opportunities for the participation of DVBEs in the Work of the Contract.
3. **DVBE Participation Goal.** The three percent (3%) participation goal is not a quota, set-aside or rigid proportion.
4. **Certification of Participation.** At the time of execution of the Contract, the Developer will provide a statement to the District of anticipated participation of DVBEs in the contract.
5. **Submission of Report.** During performance of the Contract, Developer shall monitor the Work of the Contract, award of subcontracts and contracts for materials, equipment and supplies for the purpose of determining DVBE participation in the Work of the Contract.
 - a) Developer shall report on a monthly basis all DVBEs utilized in the performance of the Work, the type or classification of the Work performed by each DVBE, and the dollar value of the Work performed by each DVBE.
 - b) Upon completion of the Work of the Contract, Developer shall submit a report to the District in the form attached hereto identifying all DVBEs utilized in the performance of the Work, the type or classification of the Work performed by each DVBE, and the dollar value of the Work performed by each DVBE.
 - i) The submission to the District of this report is a condition precedent to the District's obligation to make payment of the Final Payment under the Contract Documents. The submission of this report shall be in addition to, and not in lieu of, any other conditions precedent set forth in the Contract Documents for the District's obligation to make payment of the Final Payment.
 - ii) The District reserves the right to request additional information or documentation from the Developer evidencing efforts to comply with the three percent (3%) DVBE participation goal.

DVBE PARTICIPATION REPORT

Developer Name: _____ Date: _____

Project Name: Measure-C Projects – District Wide Security System upgrades MDUSD Project Number: 1627

DVBE Firm Name	Trade / Portion of Work	Subcontract/ Contract Value
Add more sheets as needed to include all information for each DVBE		

Does the cumulative dollar value of these DVBE contracts meet or exceed the participation goal of three percent (3%) of the final Contract Price, as adjusted by all change orders?

YES _____ NO _____

If your response is "NO", please attach to this report a detailed description of the reasons for your firm did not achieve the participation goal of three percent (3%) of the final Contract Price.

I certify and declare under penalty of perjury under the laws of the State of California that all the foregoing information is complete, true, and correct.

Date: _____

Proper Name of Developer: _____

Signature: _____

Print Name: _____

Title: _____

END OF DOCUMENT

DRUG-FREE WORKPLACE CERTIFICATION

This Drug-Free Workplace Certification form is required from the Developer pursuant to Government Code section 8350 et seq., the Drug-Free Workplace Act of 1990. The Drug-Free Workplace Act of 1990 requires that every person or organization awarded a contract or grant for the procurement of any property or service from any state agency must certify that it will provide a drug-free workplace by doing certain specified acts. In addition, the Act provides that each contract or grant awarded by a state agency may be subject to suspension of payments or termination of the contract or grant, and the contractor or grantee may be subject to debarment from future contracting, if the contracting agency determines that specified acts have occurred.

The District is not a "state agency" as defined in the applicable section(s) of the Government Code, but the District is a local agency and public school district under California law and requires all contractors on District projects to comply with the provisions and requirements of Government Code section 8350 et seq., the Drug-Free Workplace Act of 1990.

Developer shall certify that it will provide a drug-free workplace by doing all of the following:

- 1 Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited in the person's or organization's workplace and specifying actions which will be taken against employees for violations of the prohibition;
- 2 Establishing a drug-free awareness program to inform employees about all of the following:
 - a. The dangers of drug abuse in the workplace.
 - b. The person's or organization's policy of maintaining a drug-free workplace.
 - c. The availability of drug counseling, rehabilitation, and employee-assistance programs.
 - d. The penalties that may be imposed upon employees for drug abuse violations.
- 3 Requiring that each employee engaged in the performance of the contract or grant be given a copy of the statement required above, and that, as a condition of employment on the contract or grant, the employee agrees to abide by the terms of the statement.

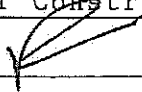
I, the undersigned, agree to fulfill the terms and requirements of Government Code section 8355 listed above and will publish a statement notifying employees concerning (a) the prohibition of controlled substance at the workplace, (b) establishing a drug-free awareness program, and (c) requiring that each employee engaged in the performance of the contract be given a copy of the statement required by section 8355(a), and requiring that the employee agree to abide by the terms of that statement.

I also understand that if the District determines that I have either (a) made a false certification herein, or (b) violated this certification by failing to carry out the requirements of section 8355, that the Contract awarded herein is subject to termination, suspension of payments, or both. I further understand that, should I violate the terms of the Drug-Free Workplace Act of 1990, I may be subject to debarment in accordance with the requirements of section 8350 et seq.

I acknowledge that I am aware of the provisions of Government Code section 8350 et seq. and hereby certify that I will adhere to the requirements of the Drug-Free Workplace Act of 1990.

Date: October 29, 2013

Proper Name of Developer: Taber Construction Inc.

Signature: 

Print Name: Bret Taber

Title: President

END OF DOCUMENT

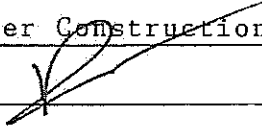
TOBACCO-FREE ENVIRONMENT CERTIFICATION

Pursuant to, without limitation, 20 U.S.C section 6083, Labor Code section 6400 et seq., Health & Safety Code section 104350 et seq. and District Board Policies, all District sites, including the Project site, are tobacco-free environments. Smoking and the use of tobacco products by all persons is prohibited on or in District property. District property includes school buildings, school grounds, school owned vehicles and vehicles owned by others while on District property.

I acknowledge that I am aware of the District's policy regarding tobacco-free environments at District sites, including the Project site and hereby certify that I will adhere to the requirements of that policy and not permit any of my firm's employees, agents, subcontractors, or my firm's subcontractors' employees or agents to use tobacco and/or smoke on the Project site.

Date: October 29, 2013

Proper Name of Developer: Taber Construction Inc.

Signature: 

Print Name: Bret Taber

Title: President

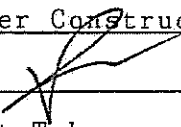
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HAZARDOUS MATERIALS CERTIFICATION

1. Developer hereby certifies that no Asbestos, or Asbestos-Containing Materials, polychlorinated biphenyl (PCB), or any material listed by the federal or state Environmental Protection Agency or federal or state health agencies as a hazardous material, or any other material defined as being hazardous under federal or state laws, rules, or regulations ("New Hazardous Material"), shall be furnished, installed, or incorporated in any way into the Project or in any tools, devices, clothing, or equipment used to affect any portion of Developer's work on the Project for District.
2. Developer further certifies that It has instructed its employees with respect to the above-mentioned standards, hazards, risks, and liabilities.
3. Asbestos and/or asbestos-containing material shall be defined as all items containing but not limited to chrysotile, crocidolite, amosite, anthophyllite, tremolite, and actinolite. Any or all material containing greater than one-tenth of one percent (.1%) asbestos shall be defined as asbestos-containing material.
4. Any disputes involving the question of whether or not material is New Hazardous Material shall be settled by electron microscopy or other appropriate and recognized testing procedure, at the District's determination. The costs of any such tests shall be paid by Developer if the material is found to be New Hazardous Material.
5. All Work or materials found to be New Hazardous Material or Work or material installed with equipment containing "New Hazardous Material" will be immediately rejected and this Work will be removed at Developer's expense at no additional cost to the District.
6. Developer has read and understood the document Hazardous Materials Procedures & Requirements, and shall comply with all the provisions outlined therein.

Date: October 29, 2013

Proper Name of Developer: Taber Construction Inc.

Signature: 

Print Name: Bret Taber

Title: President

In addition to the requirement to provide this certification, Developer agrees that it shall provide all documentation requested by the District to confirm compliance with the requirements herein.

END OF DOCUMENT

LEAD-BASED MATERIALS CERTIFICATION

This certification provides notice to the Developer that:

- (1) The Developer's work may disturb lead-containing building materials.
- (2) The Developer must notify the District if any work may result in the disturbance of lead-containing building materials.

1. Lead as a Health Hazard

Lead poisoning is recognized as a serious environmental health hazard facing children today. Even at low levels of exposure, much lower than previously believed, lead can impair the development of a child's central nervous system, causing learning disabilities, and leading to serious behavioral problems. Lead enters the environment as tiny lead particles and lead dust disburse when paint chips, chalks, peels, wears away over time, or is otherwise disturbed. Ingestion of lead dust is the most common pathway of childhood poisoning; lead dust gets on a child's hands and toys and then into a child's mouth through common hand-to-mouth activity. Exposures may result from construction or remodeling activities that disturb lead paint, from ordinary wear and tear of windows and doors, or from friction on other surfaces.

Ordinary construction and renovation or repainting activities carried out without lead-safe work practices can disturb lead-based paint and create significant hazards. Improper removal practices, such as dry scraping, sanding, or water blasting painted surfaces, are likely to generate high volumes of lead dust.

Because the Developer and its employees will be providing services for the District, and because the Developer's work may disturb lead-containing building materials, CONTRACTOR IS HEREBY NOTIFIED of the potential presence of lead-containing materials located within certain buildings utilized by the District. All school buildings built prior to 1993 are presumed to contain some lead-based paint until sampling proves otherwise.

2. Overview of California Law

Education Code section 32240 et seq. is known as the Lead Safe Schools Protection Act. Under this act, the Department of Health Services ("DHS") is to conduct a sample survey of schools in the State of California for the purpose of developing risk factors to predict lead contamination in public schools. (Ed. Code, § 3224 1.)

Any school that undertakes any action to abate existing risk factors for lead is required to utilize trained and state-certified contractors, inspectors, and workers. (Ed. Code, § 32243, subd. (b).) Moreover, lead-based paint, lead plumbing, and solders, or other potential sources of lead contamination, shall not be utilized in the construction of any new school facility or the modernization or renovation of any existing school facility. (Ed. Code, § 32244.)

Both the Federal Occupational Safety and Health Administration ("Fed/OSHA") and the California Division of Occupational Safety and Health ("Cal/OSHA") have implemented safety orders applicable to all construction work where a contractor's employee may be occupationally exposed to lead.

The OSHA Regulations apply to all construction work where a contractor's employee may be occupationally exposed to lead. The OSHA Regulations contain specific and detailed requirements imposed on contractors subject to that regulation. The OSHA Regulations define construction work as work for construction, alteration, and/or repair, including painting and decorating. It includes, but is not limited to, the following:

- a. Demolition or salvage of structures where lead or materials containing lead are present;

- b. Removal or encapsulation of materials containing lead;
- c. New construction, alteration, repair, or renovation of structures, substrates, or portions thereof, that contain lead, or materials containing lead;
- d. Installation of products containing lead;
- e. Lead contamination/emergency cleanup;
- f. Transportation, disposal, storage, or containment of lead or materials containing lead on the site or location at which construction activities are performed; and
- g. Maintenance operations associated with the construction activities described in the subsection.

Because it is assumed by the District that all painted surfaces (interior as well as exterior) within the District contain some level of lead, it is imperative that the Developer, its workers and subcontractors fully and adequately comply with all applicable laws, rules and regulations governing lead-based materials (including title 8, California Code of Regulations, section 1532. 1).

The Developer must notify the District if any Work may result in the disturbance of lead-containing building materials. Any and all Work that may result in the disturbance of lead-containing building materials must be coordinated through the District. A signed copy of this Certification must be on file prior to beginning Work on the Project, along with all current insurance certificates.

3. Renovation, Repair and Painting Rule, Section 402(c)(3) of the Toxic Substances Control Act

In 2008, the U.S. Environmental Protection Agency, issued a rule pursuant to the authority of Section 402(c)(3) of the Toxic Substances Control Act, requiring lead safe work practices to reduce exposure to lead hazards created by renovation, repair and painting activities that disturb lead-based paint (Renovation, Repair and Painting Rule). Renovations in homes, childcare facilities, and schools built prior to 1978 must be conducted by certified renovations firms, using renovators with accredited training, and following the work practice requirements to reduce human exposures to lead.

Developer, its workers and subcontractors must fully and adequately comply with all applicable laws, rules and regulations governing lead-based materials, including those rules and regulations appearing within title 40 of the Code of Federal Regulations as part 745 (40 CFR 745).

The requirements apply to all contractors who disturb lead-based paint in a six-square-foot area or greater indoors or a 20-square-foot area outdoors. If a DPH-certified inspector or risk assessor determines that a home constructed before 1978 is lead-free, the federal certification is not required for anyone working on that particular building.

4. Developer's Liability

If the Developer fails to comply with any applicable laws, rules, or regulations, and that failure results in a site or worker contamination, the Developer will be held solely responsible for all costs involved in any required corrective actions, and shall defend, indemnify, and hold harmless the District, pursuant to the indemnification provisions of the Contract, for all damages and other claims arising therefrom.

If lead disturbance is anticipated in the Work, only persons with appropriate accreditation, registrations, licenses, and training shall conduct this Work.

It shall be the responsibility of the Developer to properly dispose of any and all waste products, including, but not limited to, paint chips, any collected residue, or any other visual material that may occur from the prepping of any painted surface. It will be the responsibility of the Developer to provide the proper disposal of any hazardous waste by a certified hazardous waste hauler. This company shall be registered with the Department of Transportation (DOT) and shall be able to issue a current manifest number upon transporting any hazardous material from any school site within the District.

The Developer shall provide the District with any sample results prior to beginning Work, during the Work, and after the completion of the Work. The District may request to examine, prior to the commencement of the Work, the lead training records of each employee of the Developer.

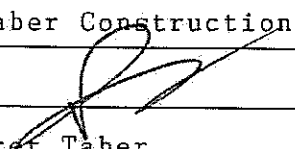
The Developer hereby acknowledges, under penalty of perjury, that it:

1. Has received notification of potential lead-based materials on the District's property;
2. Is knowledgeable regarding and will comply with all applicable laws, rules, and regulations governing work with, and disposal of, lead.

The undersigned warrants that he/she has the authority to sign on behalf of and bind the Developer. The District may require proof of such authority.

Date: October 29, 2013

Proper Name of Developer: Taber Construction Inc.

Signature: 

Print Name: Bret Taber

Title: President

END OF DOCUMENT

IMPORTED MATERIALS CERTIFICATION

This form shall be executed by Developer and by all entities that, in any way, provide or deliver and/or supply any soils, aggregate, or related materials ("Fill") to the Project Site. All Fill shall satisfy the requirements of any environmental review of the Project performed pursuant to the statutes and guidelines of the California Environmental Quality Act, section 21000 et seq. of the Public Resources Code ("CEQA"), and the requirements of section 17210 et seq. of the Education Code, including requirements for a Phase I environmental assessment acceptable to the State of California Department of Education and Department of Toxic Substances Control.

To the furthest extent permitted by California law, the indemnification provisions in the Contract Documents apply to, without limitation, any claim(s) connected with providing, delivering, and/or supplying Fill.

Certification of:	<input type="checkbox"/> Delivery Firm/Transporter	<input type="checkbox"/> Supplier	<input type="checkbox"/> Manufacturer
	<input type="checkbox"/> Wholesaler	<input type="checkbox"/> Broker	<input type="checkbox"/> Retailer
	<input type="checkbox"/> Distributor	<input checked="" type="checkbox"/> Other <u>Developer</u>	
Type of Entity:	<input checked="" type="checkbox"/> Corporation	<input type="checkbox"/> General Partnership	
	<input type="checkbox"/> Limited Partnership	<input type="checkbox"/> Limited Liability Company	
	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other _____	

Name of firm ("Firm"): Taber Construction Inc.

Mailing address: 2278 Pike Court Concord CA 94520

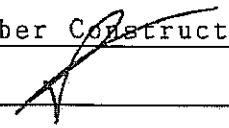
Addresses of branch office used for this Project: _____

If subsidiary, name and address of parent company: _____

By my signature below, I hereby certify that I am aware of section 25260 of the Health and Safety Code and the sections referenced therein regarding the definition of hazardous material. I further certify on behalf of the Firm that all soils, aggregates, or related materials provided, delivered, and/or supplied or that will be provided, delivered, and/or supplied by this Firm to the Project Site are free of any and all hazardous material as defined in section 25260 of the Health and Safety Code. I further certify that I am authorized to make this certification on behalf of the Firm.

Date: October 29, 2013

Proper Name of Developer: Taber Construction inc.

Signature: 

Print Name: Bret Taber

Title: President

In addition to the requirement to provide this certification, Developer agrees that it shall provide all documentation requested by the District to confirm compliance with the requirements herein.

END OF DOCUMENT

CRIMINAL BACKGROUND INVESTIGATION / FINGERPRINTING CERTIFICATION

The undersigned does hereby certify to the governing board of the District that (1) he/she is a representative of the Developer, (2) he/she is familiar with the facts herein certified, (3) he/she is authorized and qualified to execute this certificate on behalf of Developer; and (4) that the following is true and correct:

1. **Education Code.** Developer has taken at least one of the following actions with respect to the Project (check all that apply):

The Developer has complied with the fingerprinting requirements of Education Code section 45125.1 with respect to all Developer's employees and all of its subcontractors' employees who may have contact with District pupils in the course of providing services pursuant to the Contract, and the California Department of Justice has determined that none of those employees has been convicted of a felony, as that term is defined in Education Code section 45122.1. A complete and accurate list of Developer's employees and of all of its subcontractors' employees who may come in contact with District pupils during the course and scope of the Contract is attached hereto; and/or

Pursuant to Education Code section 45125.2, Developer has installed or will install, prior to commencement of work, a physical barrier at the Project site, that will limit contact between Developer's employees and District pupils at all times; and/or

Pursuant to Education Code section 45125.2, Developer certifies that all employees will be under the continual supervision of, and monitored by, an employee of the Developer who the California Department of Justice has ascertained has not been convicted of a violent or serious felony. The name and title of the employee who will be supervising Developer's employees and its subcontractors' employees is: Name: _____
Title: _____

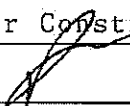
The Work on the Contract is at an unoccupied school site and no employee and/or subcontractor or supplier of any tier of Contract shall come in contact with the District pupils.

2. **Megan's Law (Sex Offenders).** I have verified and will continue to verify that the employees of Developer that will be on the Project site and the employees of the Subcontractor(s) that will be on the Project site are **not** listed on California's "Megan's Law" Website (<http://www.meganslaw.ca.gov/>).

Developer's responsibility for background clearance extends to all of its employees, subcontractors, and employees of subcontractors coming into contact with District pupils regardless of whether they are designated as employees or acting as independent contractors of the Developer.

Date: October 29, 2013

Proper Name of Developer: Taber Construction Inc.

Signature: 

Print Name: Bret Taber

Title: President

ROOFING CONTRACT FINANCIAL INTEREST CERTIFICATION (Public Contract Code § 3006)

I, Bret Taber Taber Construction Inc.
Name Name of Developer

certify that I have not offered, given, or agreed to give, received, accepted, or agreed to accept, any gift, contribution, or any financial incentive whatsoever to or from any person in connection with the roof project contract or subcontract on the Project. As used in this certification, "person" means any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.

Furthermore, I Bret Taber Taber Construction Inc.
Name Name of Developer

certify that I do not have, and throughout the duration of the Contract, I will not have, any financial relationship in connection with the performance of the Contract with any architect, engineer, roofing consultant, materials manufacturer, distributor, or vendor that is not disclosed below.

I, Bret Taber Taber Construction Inc.
Name Name of Developer

have the following financial relationships with an architect, engineer, roofing consultant, materials manufacturer, distributor, or vendor, or other person in connection with the following roof project contract:

Name of firm ("Firm"): NONE

Mailing address: _____

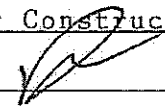
Address of branch office used for this Project: _____

If subsidiary, name and address of parent company: _____

I certify that to the best of my knowledge, the contents of this disclosure are true, or are believed to be true.

Date: October 29, 2013

Proper Name of Developer: Taber Construction Inc.

Signature: 

Print Name: Bret Taber

Title: President

END OF DOCUMENT

IRAN CONTRACTING ACT CERTIFICATION

Pursuant to Public Contract Code (PCC) section 2204, an Iran Contracting Act certification is required for solicitations of goods or services of \$1,000,000 or more.

To submit a proposal or bid to the District, you must complete ONLY ONE of the following two paragraphs. To complete paragraph 1, check the corresponding box and complete the certification for paragraph 1. To complete paragraph 2, simply check the corresponding box.

1. We are not on the current list of persons engaged in investment activities in Iran created by the California Department of General Services ("DGS") pursuant to Public Contract Code § 2203(b), and we are not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

OR

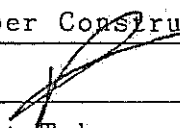
2. We have received written permission from the District to submit a proposal pursuant to PCC 2203(c) or (d). *A copy of the written permission from the District is included with our proposal.*

CERTIFICATION FOR PARAGRAPH 1:

I, the official named below, certify that I am duly authorized to legally bind the proposer/bidder to the clause in paragraph 1. This certification is made under the laws of the State of California.

Date: October 29, 2013

Proper Name of Developer: Taber Construction Inc.

Signature: 

Print Name: Bret Taber

Title: President

END OF DOCUMENT

LABOR COMPLIANCE PROGRAM

INFORMATION AND FORMS

The Developer shall comply with the labor compliance program (LCP) that is in effect on this Project which shall either be a District-operated program or the DIR's CMU (see below).

Effective January 1, 2012, the California Department of Industrial Relations (DIR) began operating a labor Compliance Monitoring Unit or "CMU" to monitor and enforce prevailing wage requirements on public works projects that receive state bond funding and on other projects that are legally required to use the CMU. (More information available at: <https://www.dir.ca.gov/dlse/cmu/cmu.html>.)

1. To monitor prevailing wage requirements on District projects, all contractors (including all subcontractors of every tier) must submit their certified payroll data directly to the DIR. The DIR has utilized a third party vendor to provide the electronic certified payroll service – "My LCM". Contractor payroll data can be entered manually or uploaded from major construction accounting and payroll programs into the electronic certified payroll reporting (My LCM) service at the DIR.
2. The service must be used by all awarding bodies and contractors for projects subject to CMU monitoring and enforcement for contracts awarded on or after January 1, 2012. A link is established for electronic certified payroll at <https://app.mylcm.com>. The site includes step-by-step instructions on how to assign contractors, manage employee profiles and submit payroll reports. (More information available at: https://www.dir.ca.gov/dlse/cmu/How_do_I_file_electronic_payroll_reports.html.)

END OF DOCUMENT

PERFORMANCE BOND (100% of Contract Price)

(Note: Developer must use this form, NOT a surety company form.)

KNOW ALL PERSONS BY THESE PRESENTS:

WHEREAS, the governing board ("Board") of the _____ School District ("District") and _____ ("Principal") have entered into a contract for the furnishing of all materials and labor, services and transportation, necessary, convenient, and proper to perform the following project:

MDUSD Project #1627 - 2010 Measure-C Projects – District Wide Security System upgrades (Project Name)
("Project" or "Contract")

which Contract dated _____, 20____, and all of the Contract Documents attached to or forming a part of the Contract, are hereby referred to and made a part hereof, and

WHEREAS, said Principal is required under the terms of the Contract to furnish a bond for the faithful performance of the Contract;

NOW, THEREFORE, the Principal and _____ ("Surety") are held and firmly bound unto the Board of the District in the penal sum of:

_____ DOLLARS

(\$ _____), lawful money of the United States, for the payment of which sum well and truly to be made we bind ourselves, our heirs, executors, administrators, successors, and assigns jointly and severally, firmly by these presents, to:

- Perform all the work required to complete the Project; and
- Pay to the District all damages the District incurs as a result of the Principal's failure to perform all the Work required to complete the Project.

The condition of the obligation is such that, if the above bounden Principal, his or its heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions, and agreements in the Contract and any alteration thereof made as therein provided, on his or its part to be kept and performed at the time and in the intent and meaning, including all contractual guarantees and warranties of materials and workmanship, and shall indemnify and save harmless the District, its trustees, officers and agents, as therein stipulated, then this obligation shall become null and void, otherwise it shall be and remain in full force and virtue.

As a condition precedent to the satisfactory completion of the Contract, the above obligation shall hold good for a period equal to the warranty and/or guarantee period of the Contract, during which time Surety's obligation shall continue if Contractor shall fail to make full, complete, and satisfactory repair, replace, and totally protect the District from loss or damage resulting from or caused by defective materials or faulty workmanship. The obligations of Surety hereunder shall continue so long as any obligation of Contractor remains. Nothing herein shall limit the District's rights or the Contractor's or Surety's obligations under the Contract, law or equity, including, but not limited to, California Code of Civil Procedure section 337.15.

The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the Contract or to the Work to be performed thereunder shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration, or addition to the Contract Documents or to the Work.

Any claims under this bond may be addressed to the Surety at the following address. This cannot be the Contractor's broker for this bond, but must be an employee of the Surety or the Surety's legal counsel:

Attention: _____

Telephone No.: (____) ____ - _____

Fax No.: (____) ____ - _____

E-mail Address: _____

IN WITNESS WHEREOF, two (2) identical counterparts of this instrument, each of which shall for all purposes be deemed an original thereof, have been duly executed by the Principal and Surety above named, on the _____ day of _____, 20__.

Principal

Surety

(Name of Principal)

(Name of Surety)

(Signature of Person with Authority)

(Signature of Person with Authority)

(Print Name)

(Print Name)

(Name of California Agent of Surety)

(Address of California Agent of Surety)

(Telephone Number of California Agent of Surety)

Contractor must attach a Notarial Acknowledgment for all Surety's signatures and a Power of Attorney and Certificate of Authority for Surety. The California Department of Insurance must authorize the Surety to be an admitted surety insurer.

END OF DOCUMENT

IN WITNESS WHEREOF, two (2) identical counterparts of this instrument, each of which shall for all purposes be deemed an original thereof, have been duly executed by the Principal and Surety above named, on the _____ day of _____, 20__.

Principal

Surety

(Name of Principal)

(Name of Surety)

(Signature of Person with Authority)

(Signature of Person with Authority)

(Print Name)

(Print Name)

(Name of California Agent of Surety)

(Address of California Agent of Surety)

(Telephone Number of California Agent of Surety)

Contractor must attach a Notarial Acknowledgment for all Surety's signatures and a Power of Attorney and Certificate of Authority for Surety. The California Department of Insurance must authorize the Surety to be an admitted surety insurer.

END OF DOCUMENT

**Division 1 Documents
to
Lease-Leaseback Documents**

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COORDINATION AND PROJECT MEETINGS

1. GENERAL

1.1. SECTION INCLUDES

- 1.1.1. Coordination Responsibilities of the Developer
- 1.1.2. Field Engineering Responsibilities of the Developer
- 1.1.3. Preconstruction Conference.
- 1.1.4. Progress Meetings.
- 1.1.5. Pre-Installation Conferences.
- 1.1.6. Post Construction Dedication.

1.2. COORDINATION RESPONSIBILITIES OF THE CONTRACTOR

- 1.2.1. Coordinate scheduling, submittals, and Work of the Specifications to assure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.
- 1.2.2. Prior to commencement of a particular type or kind of work examine relevant information, contract documents, and subsequent data issued to the Project.
- 1.2.3. Verify that utility requirement characteristics of operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.
- 1.2.4. Closing up of holes, backfilling, and other covering up operations shall not proceed until all enclosed or covered work and inspections have been completed. Verify before proceeding.
- 1.2.5. Coordinate space requirements and installation of mechanical and electrical work which are indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and conduit as closely as practicable; place runs parallel with line of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
- 1.2.6. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.
- 1.2.7. In locations where several elements of mechanical and electrical work must be sequenced and positioned with precision in order to fit into available space, prepare coordination drawings showing the actual conditions required for the installation. Prepare coordination drawings prior to purchasing, fabricating, or installing any of the elements required to be coordinated.
- 1.2.8. Closing up of walls, partitions or furred spaces, backfilling, and other covering up operations shall not proceed until all enclosed or covered work and inspections have been completed. Verify before proceeding.
- 1.2.9. Coordinate completion and clean up of Work of separate sections in preparation for completion and for portions of work designated for District's occupancy.
- 1.2.10. After District occupancy of Project, coordinate access to Site for correction of defective Work and Work not in accordance with Contract Documents, to minimize disruption of District's activities.
- 1.2.11. Coordinate all utility company work in accordance with the Contract Documents.

1.3. FIELD ENGINEERING RESPONSIBILITIES OF THE CONTRACTOR

- 1.3.1. Developer shall employ a Land Surveyor registered in the State of California and acceptable to the Construction Manager.
- 1.3.2. Control datum for survey is that established by District provided survey. Developer to locate and protect survey control and reference points.
- 1.3.3. Replace dislocated survey control points based on original survey control.
- 1.3.4. Provide field engineering services. Establish elevations, lines, and levels utilizing recognized engineering survey practices.

- 1.3.5. Upon completion of Work, submit certificate signed by the Land Surveyor, that elevations and locations of Work are in conformance with Contract Documents. Record deviations on Record Drawings.

1.4. PRECONSTRUCTION CONFERENCE

- 1.4.1. Construction Manager or Project Engineer will schedule a conference immediately after receipt of fully executed Contract Documents prior to Project mobilization.
- 1.4.2. Mandatory Attendance: Construction Manager, Project Engineer, Inspector of Record, Architect of Record, Developer, Developer's Project Manager, and Developer's Job/Project Superintendent.
- 1.4.3. Optional Attendance: Architect's consultants, subcontractors, and utility company representatives.
- 1.4.4. Construction Manager shall preside at conference and shall prepare and record minutes and distribute copies.
- 1.4.5. Agenda:
 - 1.4.5.1. Execution of District-Developer Agreement.
 - 1.4.5.2. Issue Notice to Proceed.
 - 1.4.5.3. Submission of executed bonds and insurance certificates.
 - 1.4.5.4. Distribution of Contract Documents.
 - 1.4.5.5. Submission of list of Subcontractors, list of Products, Schedule of Values, and Progress Schedule.
 - 1.4.5.6. Designation of responsible personnel representing the parties.
 - 1.4.5.7. Procedures for processing Construction Directives and Change Orders.
 - 1.4.5.8. Procedures for Request for Information.
 - 1.4.5.9. Procedures for testing and inspecting.
 - 1.4.5.10. Procedures for processing applications for payment.
 - 1.4.5.11. Procedures for Project closeout.
 - 1.4.5.12. Use of Premises.
 - 1.4.5.13. Work restrictions.
 - 1.4.5.14. District's occupancy requirements or options.
 - 1.4.5.15. Responsibility for temporary facilities and controls.
 - 1.4.5.16. Construction waste management and recycling.
 - 1.4.5.17. Parking availability.
 - 1.4.5.18. Office, work and storage areas.
 - 1.4.5.19. Equipment deliveries and priority.
 - 1.4.5.20. Security.
 - 1.4.5.21. Progress cleaning.

1.5. PROGRESS MEETINGS

- 1.5.1. Construction Manager shall schedule and administer meetings throughout progress of the Work at a minimum of every week.
- 1.5.2. Construction Manager or Project Engineer will make arrangements for meetings, prepare agenda, and preside at meetings. Construction Manager shall record minutes (Field Reports), and distribute copies.
- 1.5.3. Attendance Required: Project Manager, Job Superintendent, Construction Manager, Project Engineer, Project Inspector (Inspector of Record), Architect of Record, Subcontractors, and suppliers as appropriate to agenda topics for each meeting.
- 1.5.4. Agenda:
 - 1.5.4.1. Review minutes of previous meetings. (Field Reports)
 - 1.5.4.2. Safety, and jobsite visits
 - 1.5.4.3. Review of Work progress.
 - 1.5.4.4. Field observations, problems, and decisions.
 - 1.5.4.5. Identification of problems which impede planned progress.

- 1.5.4.6. Review of submittals schedule and status of submittals.
- 1.5.4.7. Review of off-site fabrication and delivery schedules.
- 1.5.4.8. Maintenance of construction schedule.
- 1.5.4.9. Corrective measures to regain projected schedules.
- 1.5.4.10. Planned progress during succeeding work period.
- 1.5.4.11. Coordination of projected progress.
- 1.5.4.12. Maintenance of quality and work standards.
- 1.5.4.13. Effect of proposed changes on progress schedule and coordination.
- 1.5.4.14. Other business relating to Work.

1.5.5. District has authority to schedule meetings other than those listed, as necessary.

1.6. PRE-INSTALLATION CONFERENCES

When required in individual specification section, or requested by the District Developer shall convene a pre-installation conference prior to commencing work of the section. Refer to individual specification section for timing requirements of conference.

- 1.6.1. Developer shall require his/her subcontractors and suppliers directly affecting, or affected by, work of the specific section to attend.
- 1.6.2. Notify the Construction Manager, Project Engineer, Inspector of Record, and Architect of Record four (4) days in advance of meeting date.
- 1.6.3. The pre-installation conference may coincide with a regularly scheduled progress meeting.
- 1.6.4. Developer shall prepare agenda, preside at conference, record minutes, and distribute copies within two (2) days after conference to participants.
- 1.6.5. The purpose of the meeting will be to review Contract Documents, conditions of installation, preparation and installation procedures, and coordination with related work and manufacturer's recommendations.
- 1.6.6. Pre-installation Schedule: As a minimum, Work being installed under the Contract Documents technical sections will require pre-installation conferences. Developer shall review the technical specifications and add all additional requirements for pre-installation meetings contained in those sections.

1.7. POST CONSTRUCTION DEDICATION

- 1.7.1. Attendance Required: Project Superintendent, Developer, Project Manager, major subcontractors, Construction Manager, Project Engineer, Inspector of Record, and Architect of Record.
- 1.7.2. Preparation prior to Dedication: Developer and appropriate subcontractors and suppliers shall:
- 1.7.3. Assist District in operation of mechanical devices and systems.
 - 1.7.3.1. Verify operation and adjust controls for communication systems.
 - 1.7.3.2. Assist District in operation of lighting systems.

END OF DOCUMENT

CONSTRUCTION SCHEDULE - NETWORK ANALYSIS

1. GENERAL

1.1. REFERENCES

- 1.1.1. Construction Planning and Scheduling Manual - A Manual for General Developers and the Construction Industry, The Associated General Developers of America (AGC).
- 1.1.2. CSI - Construction Specifications Institute MP-2-1 Master Format.
- 1.1.3. U.S. National Weather Service - Local Climatological Data.

1.2. PERFORMANCE REQUIREMENTS

- 1.2.1. All Developer's schedules shall comply with the baseline and milestones as indicated in the draft "Program Schedule" the District provided as a draft **Exhibit "F"** to the Facilities Lease.
- 1.2.2. Ensure adequate scheduling during construction activities so Work may be prosecuted in an orderly and expeditious manner within stipulated Contract Time.
- 1.2.3. Ensure coordination of Developer and subcontractors at all levels.
- 1.2.4. Ensure coordination of submittals, fabrication, delivery, erection, installation, and testing of Products, materials and equipment.
- 1.2.5. Ensure on-time delivery of District furnished Products, materials and equipment.
- 1.2.6. Ensure coordination of jurisdictional reviews.
- 1.2.7. Prepare applications for payment.
- 1.2.8. Monitor progress of Work.
- 1.2.9. Prepare proper requests for changes to Contract Time.
- 1.2.10. Prepare proper requests for changes to Construction Schedule.
- 1.2.11. Assist in detection of schedule delays and identification of corrective actions.

1.3. QUALITY ASSURANCE

- 1.3.1. Perform scheduling work in accordance with Construction Planning and Scheduling Manual published by the AGC.
- 1.3.2. Maintain one copy of Construction Planning and Scheduling Manual on Site.
- 1.3.3. In the event of discrepancy between the AGC publication and the Contract Documents, provisions of the Contract Documents shall govern.

1.4. QUALIFICATIONS

- 1.4.1. **Scheduler:**
 - 1.4.1.1. Developer shall retain a construction scheduler to work in enough capacity to perform all of the Developer's requirements to prepare the Construction Schedule. The Scheduler shall plan, coordinate, execute, and monitor a cost/resource loaded critical path method (CPM) schedule as required for Project and have a minimum of five (5) years direct experience using CPM.
 - 1.4.1.2. Scheduler will cooperate with District and shall be available on site for monitoring, maintaining and updating schedules in a timely manner.
 - 1.4.1.3. District has the right to reject the Scheduler based upon a lack of experience as required by this Document or based on lack of performance and timeliness of schedule submittals/fragnets on past projects. Developer shall within seven (7) calendar days of District's rejection, propose another scheduler who meets the experience requirements stated above.
- 1.4.2. **Administrative Personnel:** Five (5) years minimum experience in using and monitoring schedules on comparable projects.

1.5. SUBMITTALS

- 1.5.1. Submission of submittals pursuant to "Developer's Submittals And Schedules" in Exhibit "D." Adobe "PDF" files are not acceptable.

- 1.5.2. Submit Short Interval Schedule at each Construction Progress Meeting.
- 1.5.3. Submit Time Adjustment Schedule within five (5) days of commencement of a claimed delay.
- 1.5.4. Submit Recovery Schedules as required for timely completion of Work or when demanded by the District.
- 1.5.5. Submit job cost reports when demanded by the District.
- 1.5.6. Submit one (1) reproducible and two (2) copies of each schedule and cost report.
- 1.5.7. Submit large format plotted schedules monthly or at the request of the District or Construction Manager.

1.6. REVIEW AND EVALUATION

- 1.6.1. Developer shall participate in joint review of Construction Schedule and Reports with District and Construction Manager.
- 1.6.2. Within seven (7) days of receipt of District and Construction Manager's comments provide satisfactory revision to Construction Schedule or adequate justification for activities in question.
- 1.6.3. In the event that an activity or element of Work is not detected by District or Construction Manager review, such omission or error shall be corrected by next scheduled update and shall not affect Contract Time.
- 1.6.4. Acceptance by District of corrected Construction Schedule shall be a condition precedent to making any progress payments.
- 1.6.5. Cost-loaded values of Construction Schedule shall be basis for determining progress payments.
- 1.6.6. Review and acceptance by District and Construction Manager of Preliminary Work Schedule or Construction Schedule does not constitute responsibility whatsoever for accuracy or feasibility of schedules nor does such acceptance expressly or impliedly warrant, acknowledge or admit reasonableness of activities, logic, duration, manpower, cost or equipment loading stated or implied on schedules.

1.7. FORMAT

- 1.7.1. Prepare diagrams and supporting mathematical analyses using Precedence Diagramming Method, under concepts and methods outlined in AGC Construction Planning and Scheduling Manual.
- 1.7.2. **Listings:** Reading from left to right, in ascending order for each activity.
- 1.7.3. **Diagram Size:** 42 inches maximum height x width required.
- 1.7.4. **Scale and Spacing:** To allow for legible notations and revisions.
- 1.7.5. Illustrate order and interdependence of activities and sequence of Work.
- 1.7.6. Illustrate complete sequence of construction by activity.
- 1.7.7. Provide legend of symbols and abbreviations used.

1.8. COST AND SCHEDULE REPORTS

- 1.8.1. **Activity Analysis:** Tabulate each activity of network diagram and identify for each activity:
 - 1.8.1.1. Description.
 - 1.8.1.2. Interface with outside contractors or agencies.
 - 1.8.1.3. Number.
 - 1.8.1.4. Preceding and following number.
 - 1.8.1.5. Duration.
 - 1.8.1.6. Earliest start date, earliest finish date.
 - 1.8.1.7. Actual start date, actual finish date.
 - 1.8.1.8. Latest start date, latest finish date.
 - 1.8.1.9. Total and free float.
 - 1.8.1.10. Identification of critical path activity.
 - 1.8.1.11. Monetary value keyed to Schedule of Values.

- 1.8.1.12. Manpower requirements.
- 1.8.1.13. Responsibility.
- 1.8.1.14. Percentage complete.
- 1.8.1.15. Variance positive or negative.
- 1.8.2. **Cost Report:** Tabulate each activity of network diagram and identify for each activity:
 - 1.8.2.1. Description.
 - 1.8.2.2. Number.
 - 1.8.2.3. Total cost.
 - 1.8.2.4. Percentage complete.
 - 1.8.2.5. Value prior to current period.
 - 1.8.2.6. Value this period.
 - 1.8.2.7. Value to date.
- 1.8.3. **Required Sorts:** List activities in sorts or groups:
 - 1.8.3.1. By activity number.
 - 1.8.3.2. By amount of float time in order of early start.
 - 1.8.3.3. By responsibility in order of earliest start date.
 - 1.8.3.4. In order of latest start dates.
 - 1.8.3.5. In order of latest finish dates.
 - 1.8.3.6. Application for payment sorted by Schedule of Values.
 - 1.8.3.7. Listing of activities on critical path.
- 1.8.4. Listing of basic input data which generates schedule.

1.9. CONSTRUCTION SCHEDULE

- 1.9.1. Developer shall develop and submit a cost loaded preliminary schedule of construction (or Preliminary Construction Schedule) as required by this Document and the Contract Documents. It shall be submitted in computer generated network format and shall be organized by Activity Codes representing the Developer's intended sequencing of the Work, and with time scaled network diagrams of activities. The Preliminary Construction Schedule shall include activities such as mobilization, preparation of submittals, specified review periods, procurement items, fabrication items, milestones, and all detailed construction activities.
- 1.9.2. Upon District's acceptance of the Preliminary Construction Schedule, Developer shall update the accepted Preliminary Construction Schedule until Developer's Construction Schedule is fully developed and accepted. Once approved by District, this shall become the Construction Schedule. This schedule shall include and identify all tasks that are on the Project's critical path with a specific determination of the start and completion of each critical path task, all contract milestones and each milestone's completion date(s) as may be required by the District, and the date of Project Completion. Since updates to the Construction Schedule are the basis for payment to Developer, submittal and acceptance of the Construction Schedule and updates shall be a condition precedent to making of monthly payments, as indicated in the General Construction Provisions (Exhibit "D" to the Facilities Lease).
- 1.9.3. Failure to submit an adequate or accurate Preliminary Construction Schedule, Construction Schedule, updates thereto or failure to submit on established dates, will be considered a breach of Contract.
- 1.9.4. Failure to include any activity shall not be an excuse for completing all Work by required Completion Date.
- 1.9.5. Activities of long intervals shall be broken into increments no longer than fourteen (14) days or a value over \$20,000.00 unless approved by the District or it is non-construction activity for procurement and delivery.
- 1.9.6. The Construction Schedule shall comply with the following and include the following:
 - 1.9.6.1. Provide a written narrative describing Developer's approach to

- mobilization, procurement, and construction during the first thirty (30) calendar days including crew sizes, equipment and material delivery, Site access, submittals, and permits.
- 1.9.6.2. Shall designate critical path or paths.
 - 1.9.6.3. Procurement activities to include mobilization, shop drawings and sample submittals.
 - 1.9.6.4. Identification of key and long-lead elements and realistic delivery dates.
 - 1.9.6.5. Construction activities in units of whole days limited to fourteen (14) days for each activity except non-construction, procurement and delivery.
 - 1.9.6.6. Approximate cost and duration of each activity.
 - 1.9.6.7. Shall contain seasonal weather considerations.
 - 1.9.6.8. Indicate a date for Project Completion that is no later than Completion Date subject to any time extensions processed as part of a Change Order.
 - 1.9.6.9. Conform to mandatory dates specified in the Contract Documents.
 - 1.9.6.10. Developer shall allow for inclement weather in the Proposed Baseline Schedule by incorporating an activity titled "Rain Day Impact Allowance" as the last activity prior to the Completion Milestone. No other activities may be concurrent with it. The duration of the Rain Day Impact Allowance activity will in accordance with the Contract Documents, including "Computation of Time / Adverse Weather" in Exhibit "D" , and will be calculated from the Notice to Proceed until the Completion.
 - 1.9.6.11. Level of detail shall correspond to complexity of work involved.
 - 1.9.6.12. Indicate procurement activities, delivery, and installation of District furnished material and equipment.
 - 1.9.6.13. Designate critical path or paths.
 - 1.9.6.14. Subcontractor work at all levels shall be included in schedule.
 - 1.9.6.15. As developed shall show sequence and interdependence of activities required for complete performance of Work.
 - 1.9.6.16. Shall be logical and show a coordinated plan of Work.
 - 1.9.6.17. Show order of activities and major points of interface, including specific dates of completion.
 - 1.9.6.18. Duration of activities shall be coordinated with subcontractors and suppliers and shall be best estimate of time required.
 - 1.9.6.19. Shall show description, duration and float for each activity.
 - 1.9.7. **Activity.** An activity shall meet the following criteria:
 - 1.9.7.1. Any portion or element of Work or action that is precisely described, readily identifiable, and is a function of a logical sequential process.
 - 1.9.7.2. Descriptions shall be clear and concise. Beginning and end shall be readily verifiable. Starts and finishes shall be scheduled by logical restraints.
 - 1.9.7.3. Responsibility shall be identified with a single performing entity.
 - 1.9.7.4. Additional codes shall identify building, floor, and CSI classification.
 - 1.9.7.5. Assigned dollar value (cost-loading) of each activity shall cumulatively equal total contract amount. Mobilization, bond and insurance costs shall be separate. General requirement costs, overhead, profit, shall be prorated throughout all activities. Activity costs shall correlate with Schedule of Values.
 - 1.9.7.6. Each activity shall have manpower-loading assigned.
 - 1.9.7.7. Major construction equipment shall be assigned to each activity.
 - 1.9.7.8. Activities labeled start, continue or completion are not allowed.
 - 1.9.8. **Equipment and Materials.** For major equipment and materials show a sequence of activities including:

- 1.9.8.1. Preparation of shop drawings and sample submissions.
- 1.9.8.2. Review of shop drawings and samples.
- 1.9.8.3. Finish and color selection.
- 1.9.8.4. Fabrication and delivery.
- 1.9.8.5. Erection or installation.
- 1.9.8.6. Testing.

1.9.9. Include a minimum of fifteen (15) days prior to Completion Date for punch lists and clean up. No other activities shall be scheduled during this period.

1.10. SHORT INTERVAL SCHEDULE

- 1.10.1. The Four-Week Rolling Schedule shall be based on the most recent District Accepted Construction Schedule or Update. It shall include weekly updates to all construction, submittal, fabrication/procurement, and separate Work Contract activities. Developer shall ensure that it accurately reflects the current progress of the Work.
- 1.10.2. Shall be fully developed horizontal bar-chart-type schedule directly derived from Construction Schedule.
- 1.10.3. Prepare schedule on sheet of sufficient width to clearly show data.
- 1.10.4. Provide continuous heavy vertical line identifying first day of week.
- 1.10.5. Provide continuous subordinate vertical line identifying each day of week.
- 1.10.6. Identify activities by same activity number and description as Construction Schedule.
- 1.10.7. Show each activity in proper sequence.
- 1.10.8. Indicate graphically sequences necessary for related activities.
- 1.10.9. Indicate activities completed or in progress for previous two (2) week period.
- 1.10.10. Indicate activities scheduled for succeeding two (2) week period.
- 1.10.11. Further detail may be added if necessary to monitor schedule.

1.11. REQUESTED TIME ADJUSTMENT SCHEDULE

- 1.11.1. Updated Construction Schedule shall not show a Completion Date later than the Contract Time, subject to any time extensions processed as part of a Change Order.
- 1.11.2. If an extension of time is requested, a separate schedule entitled "Requested Time Adjustment Schedule" shall be submitted to District and Architect.
- 1.11.3. Indicate requested adjustments in Contract Time which are due to changes or delays in completion of Work.
- 1.11.4. Extension request shall include forecast of Project Completion date and actual achievement of any dates listed in Contract Documents.
- 1.11.5. To the extent that any requests are pending at time of any Construction Schedule update, Time Adjustment Schedule shall also be updated.
- 1.11.6. Schedule shall be a time-scaled network analysis.
- 1.11.7. Accompany schedule with formal written time extension request and detailed impact analysis justifying extension.
- 1.11.8. Time impact analysis shall demonstrate time impact based upon date of delay, and status of construction at that time and event time computation of all affected activities. Event times shall be those as shown in latest Construction Schedule.
- 1.11.9. Activity delays shall not automatically constitute an extension of Contract Time.
- 1.11.10. Failure of subcontractors shall not be justification for an extension of time.
- 1.11.11. Float is not for the exclusive use or benefit of any single party. Float time shall be apportioned according to needs of project, as determined by the District.
- 1.11.12. Float suppression techniques such as preferential sequencing, special lead/lag logic restraints, extended activity durations, or imposed dates shall **not** be allowed without the prior written permission of the District.
- 1.11.13. Extensions will be granted only to extent that time adjustments to activities exceed total positive float of the critical path and extends Completion date.
- 1.11.14. District shall not have an obligation to consider any time extension request unless

requirements of Contract Documents, and specifically, but not limited to these requirements are complied with.

1.11.15. District shall not be responsible or liable for any construction acceleration due to failure of District to grant time extensions under Contract Documents should requested adjustments in Contract Time not substantially comply with submission and justification requirements of Contract for time extension requests.

1.11.16. In the event a Requested Time Adjustment Schedule and Time Impact Analysis are not submitted within ten (10) days after commencement of a delay it is mutually agreed that delay does not require a Contract Time extension.

1.12. RECOVERY SCHEDULE

1.12.1. When activities are behind Construction Schedule a supplementary Recovery Schedule shall be submitted.

1.12.2. Developer shall prepare and submit to the District a Recovery Schedule at any time requested by the District, at no cost to the District.

1.12.3. Form and detail shall be sufficient to explain and display how activities will be rescheduled to regain compliance with Construction Schedule and to complete the Work by the Completion Date.

1.12.4. Maximum duration shall be one (1) month and shall coincide with payment period.

1.12.5. Ten (10) days prior to expiration of Recovery Schedule, Developer shall have to show verification to determine if activities have regained compliance with Construction Schedule. Based upon this verification the following will occur:

1.12.5.1. Supplemental Recovery Schedule will be submitted to address subsequent payment period

1.12.5.2. Construction Schedule will be resumed.

1.13. UPDATING SCHEDULES

1.13.1. Review and update schedule at least ten (10) days prior to submitting an Application for Payment.

1.13.2. Maintain schedule to record actual prosecution and progress.

1.13.3. Identify approved Change Orders which affect schedule as separate new activities.

1.13.4. No other revisions shall be made to schedule unless authorized by District.

1.13.5. **Written Narrative Report:** Developer shall include a written report to explain the Monthly Schedule Update. The narrative shall, at a minimum include the following headings with appropriate discussions of each topic:

1.13.5.1. Activities or portions of activities completed during previous reporting period.

1.13.5.2. Actual start dates for activities currently in progress.

1.13.5.3. Deviations from critical path in days ahead or behind.

1.13.5.4. List of major construction equipment used and any equipment idle.

1.13.5.5. Number of personnel by craft engaged on Work during reporting period.

1.13.5.6. Progress analysis describing problem areas.

1.13.5.7. Current and anticipated delay factors and their impact.

1.13.5.8. Proposed corrective actions and logic revisions for Recovery Schedule.

1.13.5.9. Proposed modifications, additions, deletions and changes in logic of Construction Schedule.

1.13.5.10. In updating the Schedule, Developer shall not modify Activity ID numbers, schedule calculation rules/criteria, or the Activity Coding Structure required.

1.13.6. Schedule update will form basis upon which progress payments will be made.

1.13.7. District will not be obligated to review or process Application for Payment until schedule and Progress Report have been submitted.

1.14. DISTRIBUTION

- 1.14.1. Following joint review and acceptance of updated schedules distribute copies to District, Architect, and all other concerned parties.
- 1.14.2. Instruct recipients to promptly report in writing any problem anticipated by projections shown in schedule.

2. PRODUCTS

2.1. SCHEDULING SOFTWARE

Developer shall utilize District approved software for scheduling software and shall employ the Critical Path Method (CPM) in the development and maintenance of the Construction Schedule. The scheduling software shall be capable of being resource loaded with manpower, costs and materials. It shall also be capable of generating time-scaled logic diagrams, resource histograms and profiles, bar charts, layouts and reports with any and/or all activity detail.

2.2. ELECTRONIC DATA

Provide compact disk(s) that contain a back-up of the Proposed Baseline Schedule data on it. The electronic P6 files shall be saved in “.XER” type format.

END OF DOCUMENT

SUBMITTALS

1. GENERAL

1.1. SUBMITTAL PROCEDURES – USE OF PRIMAVERA

- 1.1.1. **DEVELOPER SHALL UTILIZE DISTRICT APPROVED SOFTWARE FOR THE SUBMITTAL PROCESS.**
- 1.1.2. Developer shall transmit each submittal in conformance with requirements of this Document. For each submittal, Developer shall:
 - 1.1.2.1. Sequentially number the transmittal forms. Resubmitted submittals must have the original number with an alphabetic suffix;
 - 1.1.2.2. Identify Project and Architect's project number, Developer, Subcontractor or supplier; pertinent Drawing sheet and detail number(s), and specification Section number, as appropriate;
 - 1.1.2.3. Apply Developer's stamp, signed or initialed certifying that review, verification of Products required, field dimensions, adjacent construction work, and coordination of information is in accordance with the requirements of the Work and Contract Documents. Submittals without Developer's stamp and signature will be returned without review.
- 1.1.3. Coordinate preparation and processing of submittals with performance of Work. Transmit each submittal sufficiently in advance of performance of Work to avoid delay.
 - 1.1.3.1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 - 1.1.3.2. Coordinate transmittal of different types of submittals for related parts of Work so processing will not be delayed because of the need to review submittals concurrently for coordination.
 - 1.1.3.3. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- 1.1.4. Comply with Contract Documents for list of submittals and time requirements for scheduled performance of Work.
- 1.1.5. No extension of Contract Time will be authorized because of failure to transmit submittals to the Architect sufficiently in advance of the Work to permit processing.
- 1.1.6. Identify variations from Contract Documents and Product or system limitations which may be detrimental to successful performance of the completed Work.
- 1.1.7. Provide space for Developer and Architect review stamps.
- 1.1.8. Revise and resubmit submittals as required, identify all changes made since previous submittal.
- 1.1.9. Distribute copies of reviewed submittals to concerned parties. Instruct parties to promptly report any inability to comply with provisions.
- 1.1.10. Submittals not requested will not be recognized or processed. Submittals not requested will be returned without review.

1.2. SHOP DRAWINGS

- 1.2.1. Do not reproduce Contract Documents or copy standard information as the basis of shop drawings. Standard information prepared without specific reference to the Project is not a shop drawing.
- 1.2.2. Do not use or allow others to use Shop Drawings which have been submitted and have been rejected.

1.3. ELECTRONIC SUBMITTAL PROCESS

- 1.3.1. **Submittal Procedure for Large Format shop drawings.**
 - 1.3.1.1. Developer shall provide six (6) paper copies and of the large format Shop

Drawings directly to the District and the Construction Manager (CM) and Developer will provide an electronic transmittal (with a detailed description of the submittal including the subject, specification number and number of drawings) using the District approved software/program.

- 1.3.1.2. Developer shall verify that the Schedule of Submittals and all submittal log(s) are accurate and up to date.
- 1.3.1.3. The District and Architect will review and markup each Submittal and provide changes to Developer for Developer's incorporation into the Submittal.
- 1.3.1.4. This process will continue until the Developer has provided a Submittal that is acceptable to the District and the Architect.
- 1.3.1.5. Once a Submittal is accepted, the District will provide a final accepted Submittal to the Developer and the Developer will closeout that one Submittal.
- 1.3.1.6. Developer shall send one (1) copy of the completed record submittal of the large format documents to a vendor (Ford Graphics is suggested) and using the District approved software/program.

1.3.2. Product Data, Calculations and Small Format Drawings

- 1.3.2.1. Developer shall upload/post one (1) electronic copy (from manufacturer's website or pre-scanned) of the product literature, data, calculations, and/or small format shop drawings using the District approved software/program with a Transmittal (with a detailed description of the submittal) directly to the CM.
- 1.3.2.2. The District and Architect will review and markup each Submittal and provide changes to Developer for Developer's incorporation into the Submittal.
- 1.3.2.3. This process will continue until the Developer has provided a Submittal that is acceptable to the District and the Architect.
- 1.3.2.4. Once a Submittal is accepted, the District will provide a final accepted Submittal to the Developer and the Developer will closeout that one Submittal.
- 1.3.2.5. Developer shall send one (1) copy of the completed record submittal of the large format documents to a vendor for scanning and posting using the District approved software/program.

1.3.3. Sample Submittal Procedure – (Product / Assembly Samples)

- 1.3.3.1. Developer shall provide four (4) physical samples directly to the District and the CM and Developer will provide an electronic transmittal (with a detailed description of the submittal including the subject, specification number and number of drawings) using the District approved software/program.
- 1.3.3.2. The District and Architect will review and markup each Submittal and provide changes to Developer for Developer's incorporation into the Submittal.
- 1.3.3.3. This process will continue until the Developer has provided a Submittal that is acceptable to the District and the Architect.
- 1.3.3.4. Once a Submittal is accepted, the District will provide a final accepted Submittal to the Developer and the Developer will closeout that one Submittal.
- 1.3.3.5. Developer shall send one (1) copy of the completed record submittal of the large format documents to a vendor (Ford Graphics is suggested) for using the District approved software/program.

1.4. PRODUCT DATA

In addition to the above requirements, mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information unique to this Project.

1.5. SAMPLES

- 1.5.1. In addition to the above requirements, submit samples to illustrate functional and aesthetic characteristics of the Product in accordance with this Document, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
- 1.5.2. Where specific colors or patterns are not indicated, provide materials and products

specified in the full range of color, texture and pattern for selection by District. Range shall include standard stocked color/texture/pattern, standard color/texture/pattern not stocked, but available from manufacturer, and special color/ texture/pattern available from manufacturer as advertised in product data and brochures. Unless otherwise indicated in individual specification sections, District may select from any range at no additional cost to District.

- 1.5.3. Include identification on each sample, with full Project information.
- 1.5.4. Submit the number of samples that Developer requires, plus one that will be retained by Architect and one by District.
- 1.5.5. Reviewed samples which may be used in the Work are indicated in individual specification Sections.

1.6. MANUFACTURER'S INSTRUCTION

- 1.6.1. When specified in individual specification Sections, submit manufacturers' printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, in quantities specified for Product Data.
- 1.6.2. Identify conflicts between manufacturers' instructions and Contract Documents.

1.7. MANUFACTURER'S CERTIFICATES

- 1.7.1. When specified in individual specification Sections, submit manufacturers' certificate to Architect for review, in quantities specified for Product Data.
- 1.7.2. Indicate material or Product conforms to or exceeds specified requirements. Submit supporting reference date, affidavits, and certifications as appropriate.
- 1.7.3. Certificates may be recent or previous test results on material or Product, but must be acceptable to District.

1.8. MOCK-UP

- 1.8.1. Where indicated, provide mock-ups as required. Mock-ups shall be prepared per the specifications and shall accurately and reasonably represent the quality of construction the Developer will provide. If the mock-up or portions thereof do not adequately represent the quality of the work specified, the Developer shall modify it as needed.
- 1.8.2. Once completed to the District's satisfaction, the mock-up shall serve as the standard of quality for the work.
- 1.8.3. All mock-ups, at District's option, shall remain the property of the District. If not required by the District, Developer shall remove and dispose of the mock-up.
- 1.8.4. Where indicated, on-site mock-ups, if accepted, may be integrated into the Work.

1.9. DEFERRED APPROVAL REQUIREMENTS

- 1.9.1. Installation of deferred approval items shall not be started until detailed plans, specifications, and engineering calculations have been accepted and signed by the Architect or Engineer in general responsible charge of design and signed by a California registered Architect or professional engineer who has been delegated responsibility covering the work shown on a particular plan or specification and approved by the Division of the State Architect (DSA). Deferred approval items for this Project are as indicated in the Contract Documents.
- 1.9.2. Deferred approval drawings and specifications become part of the approved documents for the Project when they are submitted to and approved by DSA.
- 1.9.3. Submit material using electronic submittal process as defined above.
- 1.9.4. Identify and specify all supports, fasteners, spacing, penetrations, etc., for each of the deferred approval items, including calculations for each and all fasteners.
- 1.9.5. Submit documents to Architect for review prior to requesting that the Architect forward it to the DSA.
- 1.9.6. Documents shall bear the stamp and signature of the Structural, Mechanical, or Electrical Engineer licensed in California who is responsible for that work.
- 1.9.7. Architect and its subconsultants will review the documents only for conformance with

- design concept. The Architect will then forward the Submittal to DSA for approval.
- 1.9.8. Developer shall respond to review comments made by DSA and revise and resubmit submittal to the Architect for re-submittal to DSA for final approval.

END OF DOCUMENT

REGULATORY REQUIREMENTS

1. GENERAL

1.1. DESCRIPTION

This section covers the general requirements for regulatory requirements pertaining to the Work and is supplementary to all other regulatory requirements mentioned or referenced elsewhere in the Contract Documents.

1.2. REQUIREMENTS OF REGULATORY AGENCIES

- 1.2.1. All statutes, ordinances, laws, rules, codes, regulations, standards, and the lawful orders of all public authorities having jurisdiction of the Work, are hereby incorporated into the Contract Documents as if repeated in full herein and are intended to be included in any reference to Code or Building Code, unless otherwise specified, including, without limitation, the references in the list below. Developer shall make available at the Site copies of all the listed documents applicable to the Work as the District and/or Architect may request, including, without limitation, applicable portions of the California Code of Regulations (C.C.R.).
- 1.2.2. This Project shall be governed by applicable regulations, including, without limitation, the State of California's Administrative Regulations for the Division of the State Architect-Structural Safety (DSA/SS), Chapter 4, Part 1, Title 24, C.C.R., and the most current version on the date the Contract is executed and as it pertains to school construction including, without limitation:
 - 1.2.2.1. Test and testing laboratory pursuant to Section 4-335 (District shall pay for the testing laboratory).
 - 1.2.2.2. All special inspections pursuant to Section 4-333(d).
 - 1.2.2.3. Developer shall submit verified reports pursuant to Section 4-336 & 4-343(c).
 - 1.2.2.4. Administration
 - 1.2.2.4.1. Duties of the Architect and Engineers shall be pursuant to Section and 4-341.
 - 1.2.2.4.2. Duties of Developer shall be pursuant Section 4-343.
 - 1.2.2.4.3. Verified Reports shall be pursuant to Section 4-336.
 - 1.2.2.5. Developer shall keep and make available a copy of Part 1 and 2 of the most current version of C.C.R., Title 24 at the Site during construction.
 - 1.2.2.6. Developer shall notify the Division of State Architect (DSA) upon the start of construction pursuant to Section 4-331.
 - 1.2.2.7. Addenda and Change Orders shall be pursuant to Section 4-338.
- 1.2.3. Items of deferred approval shall be clearly marked on the first sheet of the Architect's and/or Engineer's approved Drawings. All items later submitted for approval shall be pursuant to Title 24 requirements to the DSA.
 - 1.2.3.1. Building Standards Administrative Code, C.C.R., Title 24, Part 1..
 - 1.2.3.2. California Building Code (CBC), C.C.R., Title 24, Part 2.; (Uniform Building code volumes 1-3 and California Amendments).
 - 1.2.3.3. California Electrical Code (CEC), C.C.R., Title 24, Part 3 ; (National Electrical Code and California Amendments).
 - 1.2.3.4. California Mechanical Code (CMC), C.C.R., Title 24, Part 4 ; (Uniform Mechanical Code and California Amendments).
 - 1.2.3.5. California Plumbing Code (CPC), C.C.R., Title 24, Part 5; (Uniform Plumbing Code and California Amendments).
 - 1.2.3.6. California Fire Code (CFC), C.C.R., Title 24, Part 9; (Fire Plumbing Code and California Amendments).
 - 1.2.3.7. California Referenced Standards Code, C.C.R., Title 24, Part 12.
 - 1.2.3.8. State Fire Marshal Regulations, C.C.R., Title 19, Public Safety.

- 1.2.3.9. Partial List of Applicable NFPA Standards:
 - 1.2.3.9.1. NFPA 13 - Automatic Sprinkler System.
 - 1.2.3.9.2. NFPA 14 - Standpipes Systems.
 - 1.2.3.9.3. NFPA 17A - Wet Chemical System
 - 1.2.3.9.4. NFPA 24 - Private Fire Mains.
 - 1.2.3.9.5. (California Amended) NFPA 72 - National Fire Alarm Codes.
 - 1.2.3.9.6. NFPA 253 - Critical Radiant Flux of Floor Covering System.
 - 1.2.3.9.7. FPA 2001 - Clean Agent Fire Extinguishing Systems.
- 1.2.3.10. California Division of the State Architect Interpretation of Regulations Manual.

END OF DOCUMENT

TESTING LABORATORY SERVICES

1. GENERAL

1.1. REFERENCES

- 1.1.1. ASTM D3740 - Practice for Evaluation of Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction.
- 1.1.2. ASTM E329 - Recommended Practice for Inspection and Testing Agencies for Concrete, Steel, and Bituminous Materials as Used in Construction.
- 1.1.3. CBC - California Building Code.
- 1.1.4. UBC - Uniform Building Code.
- 1.1.5. Title 24, Parts 1 and 2, of the California Code of Regulations. Developer shall keep a copy of these available at the job Site for ready reference during construction
- 1.1.6. DSA - Division of the State Architect, Office of Regulation Services, Structural Safety Section. DSA shall be notified at or before the start of construction.

1.2. OBSERVATION AND SUPERVISION

- 1.2.1. The District and Construction Manager or their appointed representatives will review the Work and the Developer shall provide facilities and access to the Work at all times as required to facilitate this review. Administration by the Architect and any consulting Structural Engineer will be in accordance with applicable regulations, including, without limitation, 24 C.C.R. §4-341.
- 1.2.2. One or more Project Inspector(s) approved by DSA and employed by or in contract with the District("Project Inspector"), will observe the Work in accordance with 24 C.C.R. §§4-333(b) and 4-342:
- 1.2.3. Project Inspector shall have access to the Work wherever it is in preparation or progress for ascertaining that the Work is in accordance with the Contract Documents and all applicable code sections. Developer shall provide facilities and access as required and shall provide assistance for sampling or measuring materials.
 - 1.2.3.1. Project Inspector will notify District and Architect and inform Developer of any observed failure of Work or material to conform to Contract Documents.
 - 1.2.3.2. The Project Inspector shall observe and monitor all testing and inspection activities required.
- 1.2.4. Developer shall conform with all applicable laws as indicated in the Contract Documents, including, without limitation, to 24 C.C.R. §4-343. Developer shall supervise and direct the Work and maintain a competent superintendent on the Project who is authorized to act in all matters pertaining to the Work. The Developer shall inspect all materials, as they arrive, for compliance with the Contract Documents. Developer shall reject defective Work or materials immediately upon delivery or failure of the Work or material to comply with the Contract Documents. The Developer shall submit verified reports as indicated in the Contract Documents, including, without limitation, the Specifications and as required by 24 C.C.R. §4-336.

1.3. TESTING LABORATORIES AND AGENCIES

- 1.3.1. Testing agencies and tests shall be in conformance with the Contract Documents and the requirements of 24 C.C.R. §4-335.
- 1.3.2. Testing and inspection in connection with earthwork shall be under the direction of the District's consulting soils engineer ("Soils Engineer").
- 1.3.3. Testing and inspection of construction materials and workmanship shall be performed by a qualified laboratory ("Testing Laboratory" or "Laboratory"). The Testing Laboratory shall be under direction of an engineer registered in the State of California, shall conform to requirements of ASTM E329, and shall be employed by or in contract with the District.

1.4. TESTS AND INSPECTIONS

- 1.4.1. Developer shall be responsible for notifying District and Project Inspector of all required tests and inspections. Developer shall notify District and Project Inspector forty-eight (48) hours in advance of performing any Work requiring testing or inspection.
- 1.4.2. Developer shall provide access to Work to be tested and furnish incidental labor, equipment, and facilities to facilitate all inspections and tests.
- 1.4.3. District will pay for first inspections and tests required by the Title 24 and other inspections or tests that District and/or Architect may direct to have made, including, but not limited to, the following principal items:
 - 1.4.3.1. Tests and observations for earthwork and pavings.
 - 1.4.3.2. Tests for concrete mix designs, including tests of trial batches.
 - 1.4.3.3. Tests and inspections for structural steel work.
 - 1.4.3.4. Field tests for framing lumber moisture content.
 - 1.4.3.5. Additional tests directed by District that establish that materials and installation comply with the Contract Documents.
 - 1.4.3.6. Test and observation of welding and expansion anchors.
 - 1.4.3.7. Factory observation of components and assembly of modular prefabrication structures and buildings.
- 1.4.4. District may at its discretion, pay and back charge Developer for:
 - 1.4.4.1. Retests or reinspections, if required, and tests or inspection required due to Developer error or lack of required identifications of material.
 - 1.4.4.2. Uncovering of work in accordance with Contract Documents.
 - 1.4.4.3. Testing done on weekends, holidays, and overtime will be chargeable to Developer for the overtime portion.
 - 1.4.4.4. Testing done off site.
- 1.4.5. Testing and inspection reports and certifications:
 - 1.4.5.1. If initially received by Developer, Developer shall provide to each of the following a copy of the agency or laboratory report of each test or inspection or certification: District; Construction Manager, if any; Architect; Consulting Engineer, if any; Other Engineers on the Project, as appropriate; and; Project Inspector.
 - 1.4.5.2. When the test or inspection is one required by the Title 24, a copy of the report shall also be provided to the DSA.

1.5. SELECTION AND PAYMENT

- 1.5.1. District will hire and pay for services of an independent Testing Laboratory to perform specified inspection and testing as specified by District's Testing Laboratory.
- 1.5.2. District's hiring of Testing Laboratory shall in no way relieve Developer of its obligation to perform work in accordance with requirements of Contract Documents.

1.6. DISTRICT'S TESTING LABORATORY RESPONSIBILITIES

- 1.6.1. Test samples of mixes submitted by Inspector.
- 1.6.2. Perform specified inspection, sampling, and testing of Products in accordance with specified standards.
- 1.6.3. Notify Architect and Developer of observed irregularities or non-conformance of Work or Products.
- 1.6.4. Attend preconstruction conferences and progress meetings when requested by Architect.

1.7. LABORATORY REPORTS

- 1.7.1. After each inspection and test, District shall then submit one copy of laboratory report to Developer Reports of test results of materials and inspections found not to be in compliance with the requirements of the Contract Documents shall be forwarded immediately.

- 1.7.2. Each Testing Laboratory shall submit a verified report covering all of the tests which were required to be made by that agency during the progress of the Project. Such report shall be furnished each time that Work is suspended, covering the tests up to that time and at the Completion of the Project, covering all tests.

1.8. LIMITS ON TESTING LABORATORY AUTHORITY

- 1.8.1. Laboratory may not release, revoke, alter, or enlarge on requirements of Contract Documents.
- 1.8.2. Laboratory may not approve or accept any portion of the Work.
- 1.8.3. Laboratory may not assume any duties of Developer
- 1.8.4. Laboratory has no authority to stop the Work.

1.9. CONTRACTOR RESPONSIBILITIES

- 1.9.1. Submit proposed items for testing as required herein and/or as further required in the Contract Documents to Architect for review in accordance with applicable specifications.
- 1.9.2. Cooperate with Laboratory personnel, and provide access to the Work and to manufacturer's facilities.
- 1.9.3. Notify Architect, District, and Testing Laboratory 48 hours prior to expected time for operations requiring inspection and testing services.
- 1.9.4. When tests or inspections cannot be performed after such notice, reimburse District for Laboratory personnel and travel expenses incurred due to the Developer's negligence.
- 1.9.5. Developer shall notify District a sufficient time in advance of the manufacture of material to be supplied by Developer pursuant to the Contract Documents, which must by terms of the Contract be tested, in order that the District may arrange for the testing of same at the source of supply.
 - 1.9.5.1. Any material shipped by the Developer from the source of supply prior to having satisfactorily passed such testing and inspection or prior to the receipt of notice that such testing and inspection will not be required shall not be incorporated in the Work.
- 1.9.6. Contract and pay for services of District's Testing Laboratory to perform additional inspections, sampling and testing required when initial tests indicate Developer's work and/or materials does not comply with Contract Documents.

1.10. SCHEDULE OF INSPECTIONS AND TESTS

The Testing Laboratory shall perform tests and inspections for the following in conformance with the (CBC) California Building Code (International Building Code with State of California Amendments), California Code of Regulations, Title 24, Part 2:

- Structural Tests and Special Inspections (Chapter 17A)
 - Special Inspections (§ 1704A)
- Soils and Foundations (Chapter 18A)
 - Geotechnical Investigations (§ 1803A)
- Concrete (Chapter 19A)
 - Specifications for Tests and Materials (§)
 - Concrete Quality, Mixing and Placing (§)
 - Concrete Reinforcement and Anchor Testing Inspection (§ 1916A)
- Masonry (Chapter 21A)
 - Masonry Construction Materials (§ 2103A)
 - Masonry Quality (§ 2103A)
 - Quality Assurance (§ 2105A)
- Structural Steel (Chapter 22A)
 - Structural Steel (§ 2205A)
 - Identification & Protection of Steel for Structural Purposes (§ 2203A)
 - Inspection and Tests of Structural Steel (§ 2212A)

- Wood (Chapter 23)
 - Minimum Standards and Quality (§ 2303)
 - Wood Construction (§ 1704A.6)
- Exterior Walls (Chapter 14)
 - Masonry Units (§ 1404.4)
 - Masonry Construction Materials (§ 2103A)
 - Exterior Insulation and Finish Systems (§ 1408)
- Roof Assemblies and Roofing Structures (Chapter 15)
 - Materials (§ 1506)
- Aluminum (Chapter 20)
 - Materials (§ 2002.1)
 - Inspection (§ 2003.1)
- 1.10.1. **Plumbing**
Testing as specified in the Specifications including, but not limited to: Sterilization, soil waste and vent, water piping, source of water, gas piping, downspouts and storm drains.
- 1.10.2. **Automatic Fire Sprinklers (where applicable)**
Testing as specified in the Specifications including, but not limited to: hydrostatic pressure.
- 1.10.3. **Heating, Ventilating and Air Conditioning:**
Testing as specified in the Specifications including, but not limited to: Ductwork tests, cooling tower tests, boiler tests, controls testing, piping tests, water and air systems, and test and balance of heating and air conditioning systems.
- 1.10.4. **Electrical**
Testing as specified in the Specifications including, but not limited to: Equipment testing, all electrical system operations, grounding system and checking insulation after cable is pulled.
- 1.11. **PROJECT INSPECTOR'S ACCESS TO SITE**
 - 1.11.1. A Project Inspector employed by the District in accordance with the requirement of State of California Code of Regulations, Title 24, Part 1 will be assigned to the Work. Project Inspector's duties are specifically defined in 24. C.C.R. §4-342, and as indicated in the General Construction Provisions (Exhibit "D" to the Facilities Lease).
 - 1.11.2. District and Construction Manager shall at all times have access for the purpose of inspection to all parts of the Work and to the shops wherein the Work is in preparation, and Developer shall at all times maintain proper facilities and provide safe access for such inspection.
 - 1.11.3. The Work in all stages of progress shall be subject to the personal continuous observation of the Inspector. Inspector shall have free access to any or all parts of the Work at any time. Developer shall furnish the Inspector reasonable facilities for obtaining such information as may be necessary to keep Inspector fully informed respecting the progress and manner of the Work and the character of the materials. Inspection of the Work shall not relieve the Developer from any obligation set forth in the Contract Documents.
 - 1.11.4. The Inspector is not authorized to change, revoke, alter, enlarge or decrease in any way any requirement of the Contract Documents, drawings, specifications or subsequent change orders.
 - 1.11.5. Whenever there is insufficient evidence of compliance with any of the provisions of Title 24 or evidence that any material or construction does not conform to the requirements of Title 24, the Division of the State Architect may require tests as proof of compliance. Test methods shall be as specified herein or by other recognized and accepted test

methods determined by the Division of the State Architect. All tests shall be performed by a testing laboratory accepted by the Division of the State Architect.

END OF DOCUMENT

TEMPORARY FACILITIES AND CONTROLS

1. GENERAL

1.1. LOGISTICS PLAN

Developer shall provide to the District for prior approval the Developer's mobilization and logistics plan for the Site which shall include, at a minimum, the provisions herein.

1.2. TEMPORARY UTILITIES

1.2.1. Electric Power and Lighting

1.2.1.1. Developer will furnish and pay for power during the course of the work to the extent power is not in the building(s) or on the Site. Developer shall be responsible for providing temporary facilities required on the Site to point of intended use.

1.2.1.2. Developer shall furnish, wire for, install, and maintain temporary electrical lights wherever it is necessary to provide illumination for the proper performance and/or observation of the Work: a minimum of 20 foot-candles for rough work and 50 foot-candles for finish work.

1.2.1.3. Developer shall be responsible for maintaining existing lighting levels in the Project vicinity should temporary outages or service interruptions occur.

1.2.2. Heat and Ventilation

1.2.2.1. Developer shall provide temporary heat to maintain environmental conditions to facilitate progress of the Work, to meet specified minimum conditions for the installation and curing of materials, and to protect materials and finishes from damage due to improper temperature and humidity conditions. Portable heaters shall be standard units complete with controls.

1.2.2.2. Developer shall provide forced ventilation and dehumidification, as required, of enclosed areas for proper installation and curing of materials, to disperse humidity, and to prevent accumulations of dust, fumes, vapors, and gases.

1.2.2.3. Developer shall pay the costs of installation, maintenance, operation, and removal of temporary heat and ventilation, including costs for fuel consumed, required for the performance of the Work.

1.2.3. Water

1.2.3.1. Developer will furnish and pay for water during the course of the work. Developer shall be responsible for providing temporary facilities required.

1.2.3.2. Developer shall make potable water available for human consumption.

1.2.4. Sanitary Facilities

1.2.4.1. Developer shall provide sanitary temporary facilities in no fewer numbers than required by law and such additional facilities as may be directed by the Inspector for the use of all workers. The facilities shall be maintained in a sanitary condition at all times and shall be left at the Site until removal is directed by the Project Inspector or Developer completes all Work.

1.2.4.2. Use of toilet facilities in the Work shall not be permitted except by consent of the Project Inspector and District.

1.2.5. Telephone and Internet Service

1.2.5.1. Developer shall arrange with local telephone and internet service company(ies) for service for the performance of the Work. Developer shall, at a minimum, provide in its field office one line for telephone, internet and one line for fax machine.

1.2.5.2. Developer shall pay the costs for internet, telephone, and fax lines installation, maintenance, service, and removal; for Construction Site Office, Construction Manager's Office and Inspector's Office.

1.2.6. Fire Protection:

1.2.6.1. Developer shall provide and maintain fire extinguishers and other equipment for fire protection. Such equipment shall be designated for use for fire protection only and shall comply with all requirements of the California Fire, State Fire Marshall and/or its designee.

1.2.6.2. Where on-site welding and burning of steel is unavoidable, Developer shall provide protection for adjacent surfaces.

1.2.7. Trash Removal:

Developer shall provide trash removal on a timely basis, not less than weekly from all Site Offices and the Site.

1.2.8. Temporary Facilities:

1.2.8.1. Developer shall provide the following facilities, trailers, offices, and services, fully furnished for the intended uses including desks, chairs, plan tables, etc.:

1.2.8.1.1. One (1) 12X60 office trailer with two (2) offices for two (2) Construction Managers;

1.2.8.1.2. One (1) 12X60 Project Inspector's Trailer with two (2) offices; and

1.2.8.1.3. One (1) 12X60 trailer with conference room table and chairs for meetings.

1.3. CONSTRUCTION AIDS

1.3.1. Plant and Equipment:

1.3.1.1. Developer shall furnish, operate, and maintain a complete plant for fabricating, handling, conveying, installing, and erecting materials and equipment; and for conveyances for transporting workmen. Include elevators, hoists, debris chutes, and other equipment, tools, and appliances necessary for performance of the Work.

1.3.1.2. Developer shall maintain plant and equipment in safe and efficient operating condition. Damages due to defective plant and equipment, and uses made thereof, shall be repaired by Developer at no expense to the District.

1.3.2. No District tools or equipment shall be used by Developer for the performance of the Work.

1.4. BARRIERS AND ENCLOSURES

1.4.1. Developer shall obtain District's written permission for locations and types of temporary barriers and enclosures, including fire-rated materials proposed for use, prior to their installation.

1.4.2. Developer shall provide a six (6) foot high, chain link perimeter fence with post driven into the ground and fabric screen as a temporary barrier around construction area. Developer shall provide and maintain temporary enclosures to prevent public entry and to protect persons using other buildings and portions of the Site and/or Premises. Developer shall remove temporary fence, barriers and enclosure upon Completion of the Work.

1.4.3. Developer shall provide site access to existing facilities for persons using other buildings and portions of the Site, the public, and for deliveries and other services and activities.

1.5. SECURITY

1.5.1. Developer shall secure all construction equipment, machinery and vehicles, park and store only within fenced area, and render inoperable during non-work hours. Developer is responsible for insuring that no construction materials, tools, equipment, machinery or vehicles can be used for unauthorized entry or other damage or interference to activities and security of existing facilities adjacent to and in the vicinity of the Project Site.

1.5.2. Developer shall provide a security guard located on the Project Site during non-working

hours.

1.6. TEMPORARY CONTROLS

1.6.1. Noise Control

1.6.1.1. Developer acknowledges that adjacent facilities may remain in operation during all or a portion of the Work, and it shall take all reasonable precautions to minimize noise as required by applicable laws and the Contract Documents.

1.6.1.2. Notice of proposed noisy operations, including without limitation, operation of pneumatic demolition tools, concrete saws, and other equipment, shall be submitted to District a minimum of forty-eight (48) hours in advance of their performance.

1.6.2. Noise and Vibration

1.6.2.1. Equipment and impact tools shall have intake and exhaust mufflers.

1.6.2.2. Developer shall cooperate with District to minimize and/or cease the use of noisy and vibratory equipment if that equipment becomes objectionable by its longevity.

1.6.3. Dust and Dirt

1.6.3.1. Developer shall conduct demolition and construction operations to minimize the generation of dust and dirt, and prevent dust and dirt from interfering with the progress of the Work and from accumulating in the Work and adjacent areas including, without limitation, occupied facilities.

1.6.3.2. Developer shall periodically water exterior demolition and construction areas to minimize the generation of dust and dirt.

1.6.3.3. Developer shall ensure that all hauling equipment and trucks carrying loads of soil and debris shall have their loads sprayed with water or covered with tarpaulins, and as otherwise required by local and state ordinance.

1.6.3.4. Developer shall prevent dust and dirt from accumulating on walks, roadways, parking areas, and planting, and from washing into sewer and storm drain lines.

1.6.4. Water

Developer shall not permit surface and subsurface water, and other liquids, to accumulate in or about the vicinity of the Premises. Should accumulation develop, Developer shall control the water or other liquid, and suitably dispose of it by means of temporary pumps, piping, drainage lines, troughs, ditches, dams, or other methods.

1.6.5. Pollution

1.6.5.1. No burning of refuse, debris, or other materials shall be permitted on or in the vicinity of the Premises.

1.6.5.2. Developer shall comply with applicable regulatory requirements and anti-pollution ordinances during the conduct of the Work including, without limitation, demolition, construction, and disposal operations.

1.6.6. Lighting

If portable lights are used after dark, all light must be located so as not to direct light into neighboring property.

1.7. JOB SIGN(S)

1.7.1. General:

1.7.1.1. Developer shall provide and maintain and locate a Project identification sign with the design, text, and colors designated by District and/or the Architect. Sign shall be protected in place and maintained by the Developer.

1.7.1.2. Signs other than the specified Project sign and or signs required by law, for safety, or for egress, shall not be permitted, unless otherwise approved in advance by the District.

1.7.2. Materials:

1.7.2.1. Structure and Framing: Structurally sound, new or used wood or metal; wood

shall be nominal 3/4-inch exterior grade plywood.

1.7.2.2. Sign Surface: Minimum 3/4-inch exterior grade plywood.

1.7.2.3. Sign shall be mounted on 4"x4" wooden posts embedded at least thirty six (36) inches into the soil or placed in concrete.

1.7.2.4. Paint: Exterior quality, of type and colors selected by the District and/or the Architect.

1.7.3. Fabrication:

1.7.3.1. Developer shall fabricate to provide smooth, even surface for painting.

1.7.3.2. Size: 4'-0" x 8'-0", unless otherwise indicated.

1.7.3.3. Developer shall paint exposed surfaces of supports, framing, and surface material with exterior grade paint: one coat of primer and one coat of finish paint.

1.7.3.4. Text and Graphics: As indicated.

1.8. PUBLICITY RELEASES

Developer shall not release any information, story, photograph, plan, or drawing relating information about the Project to anyone, including press and other public communications medium, including, without limitation, on website(s). Developer shall not bring anyone onto the project site during or after construction for the purpose of publicity or marketing without prior written permission of the District.

END OF DOCUMENT

SITE STANDARDS

1. GENERAL

1.1. REQUIREMENTS OF THE DISTRICT

1.1.1. Drug-Free Schools and Safety Requirements:

- 1.1.1.1. No drugs, alcohol, smoking or the use of tobacco products are allowed at any time in any buildings, Developer-owned vehicles or vehicles owned by others while on District property. No students, staff, visitors, or contractors are to use drugs on these sites.
- 1.1.1.2. Developer shall post: "Non-Smoking Area" in a highly visible location on Site. Developer may designate a smoking area outside of District property within the public right-of-way, provided that this area remains quiet and unobtrusive to adjacent neighbors. This smoking area must be kept clean at all times.
- 1.1.1.3. Developer shall ensure that no alcohol, firearms, weapons, or controlled substances enter or are used at the Site. Developer shall immediately remove from the Site and terminate the employment of any employee(s) found in violation of this provision.

- 1.1.2. **Language:** Unacceptable and/or loud language will not be tolerated, "Cat calls" or other derogatory language toward students or public will not be allowed.

1.1.3. Disturbing the Peace (Noise and Lighting):

- 1.1.3.1. Developer shall observe the noise ordinance of the Site at all times including, without limitation, all applicable local, city, and/or state laws, ordinances, and/or regulations regarding noise and allowable noise levels.
- 1.1.3.2. District reserves the right to prohibit the use of radios at the Site, except for handheld communication radios.
- 1.1.3.3. If portable lights are used after dark, the lights must be located so as not to direct light into neighboring properties.

1.1.4. Traffic:

- 1.1.4.1. Driving on the Premises shall be limited to periods when students and public are not present. If driving or deliveries must be made during the school hours, two (2) or more ground guides shall lead the vehicle across the area of travel. In no case shall driving take place across playgrounds or other pedestrian paths during recess, lunch, and/or class period changes. The speed limit on-the Premises shall be five (5) miles per hour (maximum) or less if conditions require. Developer shall not have any deliveries to the Project during the hour before school begins at the Site and during the half hour after school ends at the Site without prior written permission from the Construction Manager or the District.
- 1.1.4.2. All paths of travel for deliveries, including without limitation, material, equipment, and supply deliveries, shall be reviewed and approved by District in advance.
- 1.1.4.3. District shall designate a construction entry to the Site. If Developer requests, District determines it is required, and to the extent possible, District shall designate a staging area so as not to interfere with the normal functioning of school facilities. Location of gates and fencing shall be approved in advance with District and at Developer's expense.
- 1.1.4.4. Parking areas shall be reviewed and approved by District in advance. No parking is to occur under the drip line of trees or in areas that could otherwise be damaged.
- 1.1.4.5. All of the above shall be observed and complied with by the Developer and all workers on the Site. Failure to follow these directives could result in

individual(s) being suspended or removed from the work force at the discretion of the District. The same rules and regulations shall apply equally to delivery personnel, inspectors, consultants, and other visitors to the Site.

END OF DOCUMENT

TEMPORARY TREE AND PLANT PROTECTION

WHERE SUBSTANTIAL TREE PROTECTION WILL BE REQUIRED ON THE SITE, OBTAIN AN ARBORIST TO REVIEW THIS DOCUMENT PRIOR TO CONSTRUCTION.

1. GENERAL

1.1. SUMMARY

This Document includes the protection and trimming of existing trees that interfere with, or are affected by, execution of the Work, whether temporary or permanent construction.

1.2. DEFINITIONS

Tree Protection Zone: Area surrounding individual trees or groups of trees to remain during construction, and defined by the drip line of individual trees or the perimeter drip line of groups of trees, unless otherwise indicated.

1.3. SUBMITTALS

- 1.3.1. Product Data: For each type of product indicated.
- 1.3.2. Tree Pruning Schedule: Written schedule from arborist detailing scope and extent of pruning of trees to remain that interfere with or are affected by construction.
- 1.3.3. Qualification Data: For tree service firm and arborist.
- 1.3.4. Certification: From arborist, certifying that trees indicated to remain have been protected during construction according to recognized standards and that trees were promptly and properly treated and repaired when damaged.
- 1.3.5. Maintenance Recommendations: From arborist, for care and protection of trees affected by construction during and after completing the Work.

1.4. QUALITY ASSURANCE

- 1.4.1. Tree Service Firm Qualifications: An experienced tree service firm that has successfully completed tree protection and trimming work similar to that required for this Project and that will assign an experienced, qualified arborist to Project site during execution of tree protection and trimming.
- 1.4.2. Arborist Qualifications: An arborist certified by ISA (International Society of Arboriculture) or licensed in the jurisdiction where Project is located.
- 1.4.3. Tree Pruning Standard: Comply with ANSI A300 (Part 1), "Tree, Shrub, and Other Woody Plant Maintenance--Standard Practices (Pruning)."
 - 1.4.3.1. Before tree protection and trimming operations begin, meet with District to review tree protection and trimming procedures and responsibilities.

2. PRODUCTS

2.1. MATERIALS

- 2.1.1. Drainage Fill: Selected crushed stone, or crushed or uncrushed gravel, washed, ASTM D 448, Size 24, with 90 to 100 percent passing a 2-1/2-inch (63-mm) sieve and not more than 10 percent passing a 3/4-inch (19-mm) sieve.
- 2.1.2. Topsoil: Natural or cultivated surface-soil layer containing organic matter and sand, silt, and clay particles; friable, pervious, and black or a darker shade of brown, gray, or red than underlying subsoil; reasonably free of subsoil, clay lumps, gravel, and other objects more than 1 inch (25 mm) in diameter; and free of weeds, roots, and toxic and other nonsoil materials.
 - 2.1.2.1. Obtain topsoil only from well-drained sites where topsoil is 4 inches (100 mm) deep or more; do not obtain from bogs or marshes.
- 2.1.3. Filter Fabric: Manufacturer's standard, nonwoven, pervious, geotextile fabric of polypropylene, nylon, or polyester fibers.
- 2.1.4. Chain-Link Fence: Metallic-coated steel chain-link fence fabric of 0.120-inch- (3-mm-) diameter wire; a minimum of 48 inches (1200 mm) high; with 1.9-inch- (48-mm-)

diameter line posts; 2-3/8-inch- (60-mm-) diameter terminal and corner posts; 1-5/8-inch- (41-mm-) diameter top rail; and 0.177-inch- (4.5-mm-) diameter bottom tension wire; with tie wires, hog ring ties, and other accessories for a complete fence system.

- 2.1.5. Select mulch as recommended by arborist or landscape architect.
- 2.1.6. Organic Mulch: Use shredded hardwood, ground or shredded bark, or wood and bark chips, all free of deleterious materials.

3. EXECUTION

3.1. PREPARATION

- 3.1.1. Temporary Fencing: Install temporary fencing around tree protection zones to protect remaining trees and vegetation from construction damage. Maintain temporary fence and remove when construction is complete.
- 3.1.2. Install chain-link fence according to ASTM F 567 and manufacturer's written instructions.
- 3.1.3. Protect tree root systems from damage caused by runoff or spillage of noxious materials while mixing, placing, or storing construction materials. Protect root systems from ponding, eroding, or excessive wetting caused by dewatering operations.
- 3.1.4. Mulch areas inside tree protection zones and other areas indicated.
 - 3.1.4.1. Select mulch as recommended by arborist or landscape architect.
 - 3.1.4.2. Apply 2-inch (50-mm) to 3-inch (75-mm) average thickness of organic mulch. Do not place mulch within 6 inches (150 mm)] of tree trunks.
- 3.1.5. Do not store construction materials, debris, or excavated material inside tree protection zones. Do not permit vehicles or foot traffic within tree protection zones; prevent soil compaction over root systems.
- 3.1.6. Maintain tree protection zones free of weeds and trash.
- 3.1.7. Do not allow fires within tree protection zones.

3.2. EXCAVATION

- 3.2.1. Install shoring or other protective support systems to minimize sloping or benching of excavations where construction or utility excavation is near trees to be protected.
- 3.2.2. Do not excavate within tree protection zones, unless otherwise indicated.
- 3.2.3. Where excavation for new construction is required within tree protection zones, hand clear and excavate to minimize damage to root systems. Use narrow-tine spading forks and comb soil to expose roots.
 - 3.2.3.1. Do not allow exposed roots to dry out before placing permanent backfill. Provide temporary earth cover or pack with peat moss and wrap with burlap. Water and maintain in a moist condition. Temporarily support and protect roots from damage until they are permanently relocated and covered with soil.
- 3.2.4. Where utility trenches are required within tree protection zones, tunnel under or around roots by drilling, auger boring, pipe jacking, or digging by hand.
 - 3.2.4.1. Root Pruning: Do not cut main lateral roots or taproots; cut only smaller roots that interfere with installation of utilities. Cut roots with sharp pruning instruments; do not break or chop.

3.3. REGRADING

- 3.3.1. Grade Lowering: Where new finish grade is indicated below existing grade around trees, slope grade beyond tree protection zones. Maintain existing grades within tree protection zones.
- 3.3.2. Grade Lowering: Where new finish grade is indicated below existing grade around trees, slope grade away from trees as recommended by arborist, unless otherwise indicated.
 - 3.3.2.1. Root Pruning: Prune tree roots exposed during grade lowering. Do not cut main lateral roots or taproots; cut only smaller roots. Cut roots with sharp pruning instruments; do not break or chop.

- 3.3.3. Minor Fill: Where existing grade is 6 inches (150 mm) or less below elevation of finish grade, fill with topsoil. Place topsoil in a single uncompacted layer and hand grade to required finish elevations.
- 3.3.4. Moderate Fill: Where existing grade is more than 6 inches (150 mm) but less than 12 inches (300 mm) below elevation of finish grade, place drainage fill, filter fabric, and topsoil on existing grade as follows:
 - 3.3.4.1. Carefully place drainage fill against tree trunk approximately 2 inches (50 mm) above elevation of finish grade and extend not less than 18 inches (450 mm) from tree trunk on all sides. For balance of area within drip-line perimeter, place drainage fill up to 6 inches (150 mm) below elevation of grade.
 - 3.3.4.2. Place filter fabric with edges overlapping 6 inches (150 mm) minimum.
 - 3.3.4.3. Place fill layer of topsoil to finish grade. Do not compact drainage fill or topsoil. Hand grade to required finish elevations.
- 3.4. TREE PRUNING**
 - 3.4.1. Prune trees to remain that are affected by temporary and permanent construction.
 - 3.4.2. Prune trees to remain to compensate for root loss caused by damaging or cutting root system. Provide subsequent maintenance during Contract period as recommended by arborist.
 - 3.4.3. Pruning Standards: Prune trees according to ANSI A300 (Part 1), as recommended by arborist report.
 - 3.4.4. Adjust pruning requirements per arborist's recommendations.
 - 3.4.5. Cut branches with sharp pruning instruments; do not break or chop.
 - 3.4.6. Modify below to specific project requirements.
 - 3.4.7. Chip removed tree branches and dispose of or spread over areas identified by District.
- 3.5. TREE REPAIR AND REPLACEMENT**
 - 3.5.1. Promptly repair trees damaged by construction operations within 24 hours. Treat damaged trunks, limbs, and roots according to arborist's written instructions.
 - 3.5.2. Remove and replace trees indicated to remain that die or are damaged during construction operations or that are incapable of restoring to normal growth pattern.
 - 3.5.2.1. Provide new trees of 6-inch (150-mm) caliper size and of a when damaged trees more than 6 inches (150 mm) in caliper size, measured 12 inches (300 mm) above grade, are required to be replaced. Plant and maintain new trees as specified in Contract Documents.
 - 3.5.3. Where recommended by arborist report, aerate surface soil, compacted during construction, 10 feet (3 m) beyond drip line and no closer than 36 inches (900 mm) to tree trunk. Drill 2-inch (50-mm) diameter holes a minimum of 12 inches (300 mm) deep at 24 inches (600 mm) o.c. Backfill holes with an equal mix of augered soil and sand.
- 3.6. DISPOSAL OF WASTE MATERIALS**
 - 3.6.1. Burning is not permitted.
 - 3.6.2. Disposal: Remove excess excavated material and displaced trees from Site.

END OF DOCUMENT

STORM WATER POLLUTION PREVENTION PLAN – CONSTRUCTION

PURSUANT TO THE PROVISIONS OF EXHIBIT “D” AND THE CONTRACT DOCUMENTS, DEVELOPER SHALL PERFORM THE WORK OF THE PROJECT RELATED TO BEING THE DISTRICT’S QUALIFIED SWPPP (STORM WATER POLLUTION PREVENTION PLAN) PRACTITIONER (“QSP”). THE DEVELOPER SHALL COMPLY WITH THE FOLLOWING PROVISIONS AND THE SWPPP. IF THE SWPPP CONTAINS OTHER MORE DETAILED OR CONFLICTING PROVISIONS AND/OR REQUIRES THE DEVELOPER TO TAKE OTHER ACTIONS OR ACTIVITIES, THE DEVELOPER MUST COMPLY WITH THE SWPPP.

1. INTRODUCTION

- 1.1. In order to enroll in the construction storm water permit and before construction activities begin, the District will file certain submittals referred to as Permit Registration Documents (PRDS) with the Regional Water Quality Control Board.

2. GENERAL

The Clean Water Act and Porter Cologne Water Quality Act prohibit the discharge of any water containing pollutants from certain construction sites unless a National Pollutant Discharge Elimination System permit is first obtained and followed. The National Pollutant Discharge Elimination System General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (Construction Storm Water Permit) Order No. 2009-0009-DWQ as amended by Order No. 2010-0014-DWQ (NPDES No. CAS000002) issued by the California State Water Resources Control Board (State Water Board) authorizes the discharge of storm water and certain non-storm water from construction sites if certain conditions and measures are taken. The District has determined that the construction of this Project requires enrollment in the Construction Storm Water Permit.

3. SUBMITTALS

3.1. GENERAL

All submittals shall be made in a form conducive for the District to electronically upload the approved submittals to the Storm water Multi-Application Reporting and Tracking System (SMARTS).

3.2. RAIN EVENT ACTION PLAN (REAP)

- 3.2.1. A Rain Event Action Plan (REAP) is a written document, specific for each rain event. A REAP should be designed that when implemented it protects all exposed portions of the site within 48 hours of any likely. The General Permit requires Risk Level 2 and 3 dischargers to develop and implement a REAP designed to protect all exposed portions of their sites within 48 hours prior to any likely precipitation event. The REAP requirement is designed to ensure that the discharger has adequate materials, staff, and time to implement erosion and sediment control measures that are intended to reduce the amount of sediment and other pollutants generated from the active site. A REAP must be developed when there is likely a forecast of 50% or greater probability of precipitation in the project area. (The National Oceanic and Atmospheric Administration (NOAA) defines a chance of precipitation as a probability of precipitation of 30% to 50% chance of producing precipitation in the project area.¹⁴ NOAA defines the probability of precipitation (PoP) as the likelihood of occurrence (expressed as a percent) of a measurable amount (0.01 inch or more) of liquid precipitation (or the water equivalent of frozen precipitation) during a specified period of time at any given point in the forecast area.) Forecasts are normally issued for 12- hour time periods.
- 3.2.2. If the District’s QSD determines that the site is a Risk Level 2 or 3 the Developer’s QSP shall prepare the REAP for the Work in compliance with the General Permit and the SWPPP.

3.3. RECORDS

All electronic and hardcopy records required by the Construction Storm Water Permit shall be submitted to the District within seven (7) days of Completion of the Project.

4. PERMIT REGISTRATION DOCUMENTS

Prior to any activities on Site that disturb the Site's surface, the Permit Registration Documents (PRDs) required by the Construction Storm Water Permit must be filed with the Regional Water Quality Control Board. The District shall file the PRDs with the Regional Water Quality Control Board to activate coverage under the Construction Storm Water Permit.

5. IMPLEMENTATION REQUIREMENTS

- 5.1. Developer shall not conduct any activities that may affect the Site's construction runoff water quality until the District provides Developer with the Waste Discharger Identification Number (WDID) assigned to this Project by the State Water Board.
- 5.2. Developer shall keep a copy of the approved SWPPP at the job site. The SWPPP shall be made available when requested by a representative of the Regional Water Quality Control Board, State Water Resources Control Board, United States Environmental Protection Agency, or the local storm water management agency. Requests from the public shall be directed to the District for response.
- 5.3. Developer shall designate in writing to the District a Qualified SWPPP Practitioner (QSP) who shall be responsible for implementing the SWPPP, REAP (if applicable), ATS (if applicable), conducting non-storm water and storm water visual observations, and for ensuring that all best management practices (BMPs) required by the SWPPP and General Permit are properly implemented and maintained.
- 5.4. All measures required by the SWPPP shall be implemented concurrent with the commencement of construction. Pollution practices and devices shall be followed or installed as early in the construction schedule as possible with frequent upgrading of devices as construction progresses.
- 5.5. Developer shall ensure that all measures are properly maintained and repaired to protect the water quality of discharges.

6. INSPECTION, SAMPLING, ANALYSIS, AND RECORD KEEPING REQUIREMENTS

The Developer's QSP shall conduct all required visual observations, sampling, analysis, reporting, and record keeping required by the SWPPP and the Construction Storm Water Permit.

7. REPORTING REQUIREMENTS

Developer shall prepare and provide all the reports, which include, but are not limited to the Annual Report and any NEL Violation Reports or NAL Exceedance Reports, all of which are required by the SWPPP and the Construction Storm Water Permit.

8. ANNUAL REPORT

By August 1 of each year (defined as July 1 to June 30) that had at least one continuous three (3) month period coverage under the General Permit, Developer shall complete and submit to the District an Annual Report, as required by the General Permit. If the Project is complete prior to August 1, Developer shall submit the report prior to acceptance of the Project.

9. COMPLETION OF WORK

- 9.1. Clean-up shall be performed as each portion of the work progresses. All refuse, excess material, and possible pollutants shall be disposed of in a legal manner off-site and all temporary and permanent SWPPP devices shall be in place and maintained in good condition.
- 9.2. At Completion of Work, Developer shall inspect installed SWPPP devices, and present the currently implemented SWPPP with all backup records to the District.

10. NOTICE OF TERMINATION (NOT)

A Notice of Termination (NOT) must be submitted by the Developer to the District for electronic submittal by the Legally Responsible Person via SMARTS to terminate coverage under the General Permit. The NOT must include a final Site Map and representative photographs of the Project site that demonstrate final stabilization has been achieved. The NOT shall be submitted to the District on or before the Developer submits its final application for payment. If the Regional Water Board rejects the NOT for any reason, the Developer shall revise the NOT as many times as necessary to get the Regional Water Board's approval. The Regional Water Board will consider a construction site complete when the conditions of the General Permit, Section II.D have been met.

11. QUALITY ASSURANCE

- 11.1. Before performing any of the obligations indicated herein, the Developer's QSP shall meet the

- training and certification requirements in the Construction Storm Water Permit.
- 11.2. Developer shall perform the Work in strict compliance with the approved SWPPP, REAP, ATS, and the Construction Storm Water Permit.
 - 11.3. Developer shall conduct at least a one-hour training session on the requirements of the SWPPP for each employee before an employee conducts any construction on the Site. Developer shall maintain documentation of this employee training at the site for review by the District or any regulatory agency.
12. **PERFORMANCE REQUIREMENTS**
- 12.1. The Storm Water Pollution Prevention Plan is a minimum requirement. Revisions and modifications to the SWPPP are acceptable only if they maintain levels of protection equal to or greater than originally specified.
 - 12.2. Read and be thoroughly familiar with all of the requirements of the SWPPP.
 - 12.3. Inspect and monitor all work and storage areas for compliance with the SWPPP prior to any anticipated rain.
 - 12.4. Complete any and all corrective measures as may be directed by the regulatory agency.
 - 12.5. **Penalties:** Developer shall pay any fees and any penalties that may be imposed by the regulatory agency for non-compliance with SWPPP during the course of Work.
 - 12.6. **Costs:** Developer to pay all costs associated with the implementation of the requirements of the SWPPP in order to maintain compliance with the Permit. This includes installation of all Housekeeping BMPs, General Site and Material Management BMPs, Inspection requirements, maintenance requirements, and all other requirements specified in the SWPPP.
13. **MATERIALS**
- All temporary and permanent storm water pollution prevention facilities, equipment, and materials as required by or as necessary to comply with the SWPPP as described in the BMP Handbook.

END OF DOCUMENT

MATERIALS AND EQUIPMENT

1. GENERAL

1.1. MATERIAL AND EQUIPMENT

- 1.1.1. Only items approved by the District and/or Architect shall be used.
- 1.1.2. Developer shall submit lists of Products and other Product information in accordance with the Contract Documents, including, without limitation, the provisions regarding the submittals.

1.2. MATERIAL AND EQUIPMENT COLORS

- 1.2.1. The Developer shall comply with all schedule(s) of colors provided by the District and/or Architect.
- 1.2.2. No individual color selections will be made until after approval of all pertinent materials and equipment and after receipt of appropriate samples in accordance with the Contract Documents, including, without limitation, the provisions regarding the submittals.
- 1.2.3. Developer shall request priority in writing for any item requiring advance ordering to maintain the approved Construction Schedule.

1.3. DELIVERY, STORAGE, AND HANDLING

- 1.3.1. Developer shall deliver manufactured materials in original packages, containers, or bundles (with seals unbroken), bearing name or identification mark of manufacturer.
- 1.3.2. Developer shall deliver fabrications in as large assemblies as practicable; where specified as shop-primed or shop-finished, package or crate as required to preserve such priming or finish intact and free from abrasion.
- 1.3.3. Developer shall store materials in such a manner as necessary to properly protect them from damage. Materials or equipment damaged by handling, weather, dirt, or from any other cause will not be accepted.
- 1.3.4. Materials are not be acceptable that have been warehoused for long periods of time, stored or transported in improper environment, improperly packaged, inadequately labeled, poorly protected, excessively shipped, deviated from normal distribution pattern, or reassembled.
- 1.3.5. Developer shall store material so as to cause no obstructions of sidewalks, roadways, and underground services. Developer shall protect material and equipment furnished pursuant to the Contract Documents.
- 1.3.6. Developer may store materials on Site with prior written approval by the District, all material shall remain under Developer's control and Developer shall remain liable for any damage to the materials. Should the Project Site not have storage area available, the Developer shall provide for off-site storage at no cost to District.
- 1.3.7. When any room in Project is used as a shop or storeroom, the Developer shall be responsible for any repairs, patching, or cleaning necessary due to that use. Location of storage space shall be subject to prior written approval by District.

2. PRODUCTS

2.1. MANUFACTURERS

- 2.1.1. Manufacturers listed in various sections of Contract Documents are names of those manufacturers that are believed to be capable of supplying one or more of items specified therein.
- 2.1.2. The listing of a manufacturer does not imply that every product of that manufacturer is acceptable as meeting the requirements of the Contract Documents.

2.2. FACILITIES AND EQUIPMENT

Developer shall provide, install, maintain, and operate a complete and adequate facility for handling, the execution, disposal, and distribution of material and equipment as required for proper and timely performance of Work.

2.3. MATERIAL REFERENCE STANDARDS

Where material is specified solely by reference to "standard specifications" and if requested by District, Developer shall submit for review data on actual material proposed to be incorporated into Work, listing name and address of vendor, manufacturer, or producer, and trade or brand names of those materials, and data substantiating compliance with standard specifications.

3. EXECUTION

3.1. WORKMANSHIP

- 3.1.1. Where not more specifically described in any other Contract Documents, workmanship shall conform to methods and operations of best standards and accepted practices of trade or trades involved and shall include items of fabrication, construction, or installation regularly furnished or required for completion (including finish and for successful operation, as intended).
- 3.1.2. Work shall be executed by tradespersons skilled in their respective field of work. When completed, parts shall have been durably and substantially built and present a neat appearance.

3.2. COORDINATION

- 3.2.1. Developer shall coordinate installation of materials and equipment so as to not interfere with installation of other work. Adjustment or rework because of Developer's failure to coordinate will be at no additional cost to District.
- 3.2.2. Developer shall examine in-place materials and equipment for readiness, completeness, fitness to be concealed or to receive Work, and compliance with Contract Documents. Concealing or covering work constitutes acceptance of additional cost which will result should in-place materials and equipment be found unsuitable for receiving other work or otherwise deviating from the requirements of the Contract Documents.

3.3. COMPLETENESS

Developer shall provide all portions of the Work, unless clearly stated otherwise, installed complete and operational with all elements, accessories, anchorages, utility connections, etc., in manner to assure well-balanced performance, in accordance with manufacturer's recommendations and in accordance with Contract Documents. For example, electric water coolers require water, electricity, and drain services; roof drains require drain system; sinks fit within countertop, etc. Terms such as "installed complete," "operable condition," "for use intended," "connected to all utilities," "terminate with proper cap," "adequately anchored," "patch and refinish," "to match similar," should be assumed to apply in all cases, except where completeness of functional or operable condition is specifically stated as not required.

3.4. APPROVED INSTALLER OR APPLICATOR

Developer shall ensure that all installations are only performed by a manufacturer's approved installer or applicator.

3.5. MANUFACTURER'S RECOMMENDATIONS

All installations shall be in accordance with manufacturer's published recommendations and specific written directions of manufacturer's representative. Should Contract Documents differ from recommendations of manufacturer or directions of manufacturer's representative, Developer shall analyze differences, make recommendations to the District and the Architect in writing, and shall not proceed until interpretation or clarification has been issued by the District and/or the Architect.

END OF DOCUMENT

DELIVERY, STORAGE AND HANDLING

1. GENERAL

1.1. PRODUCTS

- 1.1.1. Products are as defined in the General Construction Provisions (Exhibit "D" to the Facilities Lease).
- 1.1.2. Developer shall not use and/or reuse materials and/or equipment removed from existing Premises, except as specifically permitted by the Contract Documents.
- 1.1.3. Developer shall provide interchangeable components of the same manufacturer, for similar components.

1.2. TRANSPORTATION AND HANDLING

- 1.2.1. Developer shall transport and handle Products in accordance with manufacturer's instructions.
- 1.2.2. Developer shall promptly inspect shipments to confirm that Products comply with Contract requirements, are of correct quantity, and are undamaged.
- 1.2.3. Developer shall provide equipment and personnel to properly handle Products to prevent soiling, disfigurement, or damage.

1.3. STORAGE AND PROTECTION

- 1.3.1. Developer shall store and protect Products in accordance with manufacturer's instructions, with seals and labels intact and legible. Developer shall store sensitive Products in weather-tight, climate controlled enclosures.
- 1.3.2. Developer shall place fabricated Products that are stored outside, on above-ground sloped supports.
- 1.3.3. Developer shall provide off-site storage and protection for Products when Site does not permit on-site storage or protection.
- 1.3.4. Developer shall cover Products subject to deterioration with impervious sheet covering and provide ventilation to avoid condensation.
- 1.3.5. Developer shall store loose granular materials on solid flat surfaces in a well-drained area and prevent mixing with foreign matter.
- 1.3.6. Developer shall provide equipment and personnel to store Products by methods to prevent soiling, disfigurement, or damage.
- 1.3.7. Developer shall arrange storage of Products to permit access for inspection and periodically inspect to assure Products are undamaged and are maintained under specified conditions.

END OF DOCUMENT

CONTRACT CLOSEOUT AND FINAL CLEANING

1. GENERAL

1.1. CLOSEOUT PROCEDURES

Developer shall comply with all closeout provisions as indicated in the General Construction Provisions (Exhibit "D" to the Facilities Lease).

1.2. FINAL CLEANING

- 1.2.1. Developer shall execute final cleaning prior to final inspection.
- 1.2.2. Developer shall clean interior and exterior glass and surfaces exposed to view; remove temporary labels, tape, stains, and foreign substances, polish transparent and glossy surfaces, wax and polish new vinyl floor surfaces, vacuum carpeted and soft surfaces.
- 1.2.3. Developer shall clean equipment and fixtures to a sanitary condition.
- 1.2.4. Developer shall replace filters of operating equipment.
- 1.2.5. Developer shall clean debris from roofs, gutters, down spouts, and drainage systems.
- 1.2.6. Developer shall clean Site, sweep paved areas, and rake clean landscaped surfaces.
- 1.2.7. Developer shall remove waste and surplus materials, rubbish, and construction facilities from the Site.

1.3. ADJUSTING

Developer shall adjust operating products and equipment to ensure smooth and unhindered operation.

1.4. RECORD DOCUMENTS AND SHOP DRAWINGS

Developer shall legibly mark each item to record actual construction, including:

- 1.4.1. Measured depths of foundation in relation to finish floor datum.
- 1.4.2. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permit surface improvements.
- 1.4.3. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
- 1.4.4. Field changes of dimension and detail.
- 1.4.5. Details not on original Contract Drawings
- 1.4.6. Changes made by modification(s).
- 1.4.7. References to related Shop Drawings and modifications.
- 1.4.8. Developer will provide one set of Record Drawings to District in an electronic format and one set on paper.
- 1.4.9. Developer shall submit all required documents to District and/or Architect prior to or with its final Application for Payment.

1.5. INSTRUCTION OF DISTRICT PERSONNEL

- 1.5.1. Before final inspection, at agreed upon times, Developer shall instruct District's designated personnel in operation, adjustment, and maintenance of products, equipment, and systems.
- 1.5.2. For equipment requiring seasonal operation, Developer shall perform instructions for other seasons within six (6) months.
- 1.5.3. Developer shall use operation and maintenance manuals as basis for instruction. Developer shall review contents of manual with personnel in detail to explain all aspects of operation and maintenance.
- 1.5.4. Developer shall prepare and insert additional data in Operation and Maintenance Manual when need for such data becomes apparent during instruction.
- 1.5.5. Developer shall use operation and maintenance manuals as basis for instruction. Developer shall review contents of manual with personnel in detail to explain all aspects of operation and maintenance.
- 1.5.6. Developer shall be available for up to two (2) four-hour sessions of additional training of District personnel at any time within the first year of operation of the Site.

1.6. SPARE PARTS AND MAINTENANCE MATERIALS

- 1.6.1. Developer shall provide products, spare parts, maintenance, and extra materials in quantities specified in the Specifications and in Manufacturer's recommendations.
- 1.6.2. Developer shall provide District all required Operation and Maintenance Data.

END OF DOCUMENT

FIELD ENGINEERING

1. GENERAL

1.1. REQUIREMENTS INCLUDED

- 1.1.1. Developer shall provide and pay for field engineering services by a California-registered engineer, required for the Project, including, without limitations:
 - 1.1.1.1. Survey work required in execution of the Project.
 - 1.1.1.2. Civil or other professional engineering services specified, or required to execute Developer's construction methods.

1.2. QUALIFICATIONS OF SURVEYOR OR ENGINEERS

Developer shall only use a qualified licensed engineer or registered land surveyor, to whom District makes no objection.

1.3. SURVEY REFERENCE POINTS

- 1.3.1. Existing basic horizontal and vertical control points for the Project are those designated on the Drawings.
- 1.3.2. Developer shall locate and protect control points prior to starting Site Work and preserve all permanent reference points during construction. In addition Developer shall:
 - 1.3.2.1. Make no changes or relocation without prior written notice to District and Architect.
 - 1.3.2.2. Report to District and Construction Manager when any reference point is lost or destroyed, or requires relocation because of necessary changes in grades or locations.
 - 1.3.2.3. Require surveyor to replace Project control points based on original survey control that may be lost or destroyed.

1.4. RECORDS

Developer shall maintain a complete, accurate log of all control and survey work as it progresses.

1.5. SUBMITTALS

- 1.5.1. Developer shall submit name and address of Surveyor and Professional Engineer to District and Construct Manager prior to its/their work on the Project.
- 1.5.2. On request of District and Construction Manager, Developer shall submit documentation to verify accuracy of field engineering work, at no additional cost to the District.
- 1.5.3. Developer shall submit a certificate signed by registered engineer or surveyor certifying that elevations and locations of improvements are in conformance or nonconformance with Contract Documents.

2. EXECUTION

2.1. COMPLIANCE WITH LAWS

Developer is responsible for meeting all applicable codes, OSHA, safety and shoring requirements.

2.2. NONCONFORMING WORK

Developer is responsible for any re-surveying required by correction of nonconforming work.

END OF DOCUMENT

CUTTING AND PATCHING

1. GENERAL

1.1. CUTTING AND PATCHING

- 1.1.1. Developer shall be responsible for all cutting, fitting, and patching, including associated excavation and backfill, required to complete the Work or to:
 - 1.1.1.1. Make several parts fit together properly.
 - 1.1.1.2. Uncover portions of Work to provide for installation of ill-timed Work.
 - 1.1.1.3. Remove and replace defective Work.
 - 1.1.1.4. Remove and replace Work not conforming to requirements of Contract Documents.
 - 1.1.1.5. Remove Samples of installed Work as specified for testing.
 - 1.1.1.6. Provide routine penetrations of non-structural surfaces for installation of piping and electrical conduit.
 - 1.1.1.7. Attaching new materials to existing remodeling areas – including painting (or other finishes) to match existing conditions.
- 1.1.2. In addition to Contract requirements, upon written instructions from District, Developer shall uncover Work to provide for observations of covered Work in accordance with the Contract Documents; remove samples of installed materials for testing as directed by District; and remove Work to provide for alteration of existing Work.
- 1.1.3. Developer shall not cut or alter Work, or any part of it, in such a way that endangers or compromises the integrity of the Work, the Project, or work of others.
- 1.1.4. Developer shall not cut and patch operating elements and safety related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety. Operating elements include the following:
 - 1.1.4.1. Primary operational systems and equipment.
 - 1.1.4.2. Air or smoke barriers.
 - 1.1.4.3. Fire-suppression systems.
 - 1.1.4.4. Mechanical systems piping and ducts.
 - 1.1.4.5. Control systems.
 - 1.1.4.6. Communication systems.
 - 1.1.4.7. Conveying systems.
 - 1.1.4.8. Electrical wiring systems.
- 1.1.5. Developer shall not cut and patch miscellaneous elements or related components in a manner that could change their load-carrying capacity, that results in reducing capacity to perform as intended, or that results in increased maintenance or decreased operational life of safety. Miscellaneous elements include the following:
 - 1.1.5.1. Water, moisture or vapor barriers.
 - 1.1.5.2. Membranes and flashings.
 - 1.1.5.3. Exterior curtain-wall construction.
 - 1.1.5.4. Equipment supports.
 - 1.1.5.5. Piping, ductwork, vessels and equipment.
 - 1.1.5.6. Noise and vibration control elements and systems.
 - 1.1.5.7. Shoring, bracing and sheeting.

1.2. SUBMITTALS

- 1.2.1. Developer shall submit written notice to District pursuant to the applicable notice provisions of the Contract Documents, requesting consent to proceed with the cutting or alteration (Request) at least ten (10) days prior to any cutting or alterations that may affect the structural safety of Project, or work of others, including the following:

- 1.2.1.1. The work of the District or other trades.
- 1.2.1.2. Structural value or integrity of any element of Project.
- 1.2.1.3. Integrity or effectiveness of weather-exposed or weather-resistant elements or systems.
- 1.2.1.4. Efficiency, operational life, maintenance or safety of operational elements.
- 1.2.1.5. Visual qualities of sight-exposed elements.
- 1.2.2. Contractor's Request shall also include:
 - 1.2.2.1. Identification of Project.
 - 1.2.2.2. Description of affected Work.
 - 1.2.2.3. Necessity for cutting, alteration, or excavations.
 - 1.2.2.4. Affects of Work on District, other trades, or structural or weatherproof integrity of Project.
 - 1.2.2.5. Description of proposed Work:
 - 1.2.2.5.1. Scope of cutting, patching, alteration, or excavation.
 - 1.2.2.5.2. Trades that will execute Work.
 - 1.2.2.5.3. Products proposed to be used.
 - 1.2.2.5.4. Extent of refinishing to be done.
 - 1.2.2.6. Alternates to cutting and patching.
 - 1.2.2.7. Cost proposal, when applicable.
 - 1.2.2.8. The scheduled date the Developer intends to perform the Work and the duration of time to complete the Work.
 - 1.2.2.9. Written permission of other trades whose Work will be affected.

1.3. QUALITY ASSURANCE

- 1.3.1. Developer shall ensure that cutting, fitting, and patching shall achieve security, strength, weather protection, appearance for aesthetic match, efficiency, operational life, maintenance, safety of operational elements, and the continuity of existing fire ratings.
- 1.3.2. Developer shall ensure that cutting, fitting, and patching shall successfully duplicate undisturbed adjacent profiles, materials, textures, finishes, colors, and that materials shall match existing construction. Where there is dispute as to whether duplication is successful or has been achieved to a reasonable degree, the District's decision shall be final.

1.4. PAYMENT FOR COSTS

- 1.4.1. Cost caused by ill-timed or defective Work or Work not conforming to Contract Documents, including costs for additional services of the District, its consultants, including but not limited to the Construction Manager, the Architect, the Project Inspector(s), Engineers, and Agents, will be paid by Developer and/or deducted from the Contract by the District.
- 1.4.2. District shall only pay for cost of Work if it is part of the original Contract Price or if a change has been made to the contract in compliance with the provisions of the General Construction Provisions (Exhibit "D" to the Facilities Lease). Cost of Work performed upon instructions from the District, other than defective or nonconforming Work, will be paid by District on approval of written Change Order. Developer shall provide written cost proposals prior to proceeding with cutting and patching.

2. PRODUCTS

2.1. MATERIALS

- 2.1.1. Developer shall provide for replacement and restoration of Work removed. Developer shall comply with the Contract Documents and with the Industry Standard(s), for the type of Work, and the Specification requirements for each specific product involved. If not specified, Developer shall first recommend a product of a manufacturer or appropriate trade association for approval by the District.

- 2.1.2. Materials to be cut and patched include those damaged by the performance of the Work.

3. EXECUTION

3.1. INSPECTION

- 3.1.1. Developer shall inspect existing conditions of the Site and the Work, including elements subject to movement or damage during cutting and patching, excavating and backfilling. After uncovering Work, Developer shall inspect conditions affecting installation of new products.
- 3.1.2. Developer shall report unsatisfactory or questionable conditions in writing to District as indicated in the General Construction Provisions (Exhibit "D" to the Facilities Lease) and shall proceed with Work as indicated in the General Construction Provisions (Exhibit "D" to the Facilities Lease) by District.

3.2. PREPARATION

- 3.2.1. Developer shall provide shoring, bracing and supports as required to maintain structural integrity for all portions of the Project, including all requirements of the Project.
- 3.2.2. Developer shall provide devices and methods to protect other portions of Project from damage.
- 3.2.3. Developer shall, provide all necessary protection from weather and extremes of temperature and humidity for the Project, including without limitation, any work that may be exposed by cutting and patching Work. Developer shall keep excavations free from water.

3.3. ERECTION, INSTALLATION AND APPLICATION

- 3.3.1. With respect to performance, Developer shall:
 - 3.3.1.1. Execute fitting and adjustment of products to provide finished installation to comply with and match specified tolerances and finishes.
 - 3.3.1.2. Execute cutting and demolition by methods that will prevent damage to other Work, and provide proper surfaces to receive installation of repairs and new Work.
 - 3.3.1.3. Execute cutting, demolition excavating, and backfilling by methods that will prevent damage to other Work and damage from settlement.
 - 3.3.1.4. Developer shall employ original installer or fabricator to perform cutting and patching for:
 - 3.3.1.5. Weather-exposed surfaces and moisture-resistant elements such as roofing, sheet metal, sealants, waterproofing, and other trades.
 - 3.3.1.6. Sight-exposed finished surfaces.
- 3.3.2. Developer shall execute fitting and adjustment of products to provide a finished installation to comply with specified products, functions, tolerances, and finishes as shown or specified in the Contract Documents including, without limitation, the Drawings and Specifications.
- 3.3.3. Developer shall fit Work airtight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces. Developer shall conform to all Code requirements for penetrations or the Drawings and Specifications, whichever calls for a higher quality or more thorough requirement. Developer shall maintain integrity of both rated and non-rated fire walls, ceilings, floors, etc.
- 3.3.4. Developer shall restore Work which has been cut or removed. Developer shall install new products to provide completed Work in accordance with requirements of the Contract Documents and as required to match surrounding areas and surfaces.
- 3.3.5. Developer shall refinish all continuous surfaces to nearest intersection as necessary to match the existing finish to any new finish.

END OF DOCUMENT

DEMOLITION WASTE MANAGEMENT

1. GENERAL

1.1. DEFINITIONS

- 1.1.1. **Construction and Demolition Waste:** Building and site improvement materials and waste materials resulting from construction and demolition or selective demolition operations.
- 1.1.2. **Disposal:** Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.
- 1.1.3. **Recycle:** Recovery of demolition or construction waste for subsequent processing in preparation for reuse.
- 1.1.4. **Salvage:** Recovery of demolition or construction waste and subsequent sale or reuse in another facility.
- 1.1.5. **Salvage and Reuse:** Recovery of demolition or construction waste and subsequent incorporation into the Work.
- 1.1.6. **Waste Management Coordinator:** Developer's designated representative responsible for preparation and execution of demolition waste management plan.

1.2. PERFORMANCE GOALS

- 1.2.1. **General:** Develop waste management plan that results in end-of-Project rates for salvage/recycling of seventy-five percent (75%) by weight of total waste generated by the Work.
- 1.2.2. **Salvage/Recycle Goals:** Salvage and recycle as much nonhazardous construction and demolition waste as possible. District has established a minimum goal of seventy-five percent (75%) by weight of total waste generated by the Work for the following materials:
 - Demolition Soils Waste:
 - Green Materials: Trees, stumps, trimmings, and land clearing debris.
 - Asphaltic concrete paving.
 - Concrete.
 - Decorative masonry and rocks.
 - Concrete reinforcing steel.
 - Brick.
 - Concrete masonry units.
 - Wood studs, joists, and sheathing.
 - Plywood and oriented strand board.
 - Wood paneling and wood trim.
 - Interior casework.
 - Structural and miscellaneous steel.
 - Rough hardware.
 - Roofing.
 - Insulation.
 - Windows, doors, and frames.
 - Door hardware.
 - Windows.
 - Glazing.
 - Metal: Ferrous and non-ferrous.
 - Gypsum board.
 - Acoustical tile and panels.
 - Carpet.

- Carpet pad.
- Demountable partitions.
- Equipment:
 - Cabinets.
 - Plumbing fixtures and piping.
 - Supports and hangers.
 - Valves.
 - Fire sprinklers.
 - Mechanical equipment.
 - Refrigerants.
 - Electrical conduit.
 - Copper wiring.
 - Lighting fixtures, lamps and ballasts.
 - Electrical devices.
 - Switchgear and panel boards.
 - Historical items for Archive Project.

1.3. SUBMITTALS

- 1.3.1. **Waste Management Plan:** Submit five (5) copies of plan concurrent with the Schedule of Submittals as indicated in the General Construction Provisions (Exhibit “D” to the Facilities Lease).
- 1.3.2. **Waste Reduction Progress Reports:** Concurrent with each Application for Payment, submit five (5) copies of reports. Include separate reports for demolition and construction waste. Include the following information:
 - 1.3.2.1. Material category;
 - 1.3.2.2. Generation point of waste;
 - 1.3.2.3. Total quantity of waste in tons;
 - 1.3.2.4. Quantity of waste salvaged, both estimated and actual in tons;
 - 1.3.2.5. Quantity of waste recycled, both estimated and actual in tons;
 - 1.3.2.6. Total quantity of waste recovered (salvaged plus recycled) in tons; and
 - 1.3.2.7. Total quantity of waste recovered (salvaged plus recycled) as a percentage of total waste.
- 1.3.3. **Forms:** Prepare waste reduction progress reports.
- 1.3.4. **Waste Reduction Calculations:** Before Completion, submit five (5) copies of calculated end-of-Project rates for salvage, recycling, and disposal as a percentage of total waste generated by the Work. Developer may request information from District to assist in preparing these calculations.
- 1.3.5. **Records of Donations:** Indicate receipt and acceptance of salvageable waste donated to individuals and organizations. Indicate whether organization is tax exempt.
- 1.3.6. **Records of Sales:** Indicate receipt and acceptance of salvageable waste sold to individuals and organizations. Indicate whether organization is tax exempt.
- 1.3.7. **Recycling and Processing Facility Records:** Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.
- 1.3.8. **Landfill and Incinerator Disposal Records:** Indicate receipt and acceptance of waste by landfills and incinerator facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.
- 1.3.9. **Qualification Data:** For Developer’s Waste Management Coordinator.
- 1.3.10. **Statement of Refrigerant Recovery:** Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered and that recovery was performed according to EPA regulations. Include name and address of technician and date refrigerant was recovered.

- 1.3.11. **Hazardous Materials Abatement:** Coordinate with other applicable Specifications for the removal of hazardous components of materials to be recycled.

1.4. QUALITY ASSURANCE

- 1.4.1. **Waste Management Coordinator:** Submit qualifications for District’s approval.
- 1.4.2. **Regulatory Requirements:** Comply with hauling and disposal regulations of authorities having jurisdiction.
- 1.4.3. **Waste Management Conference:** Conduct conference at Project site to comply with requirements in the Contract Documents. Review methods and procedures related to waste management including, but not limited to, the following:
 - 1.4.3.1. Review and discuss waste management plan including responsibilities of Waste Management Coordinator;
 - 1.4.3.2. Review requirements for documenting quantities of each type of waste and its disposition;
 - 1.4.3.3. Review and finalize procedures for materials separation and verify availability of containers and bins needed to avoid delays;
 - 1.4.3.4. Review procedures for periodic waste collection and transportation to recycling and disposal facilities; and
 - 1.4.3.5. Review waste management requirements for each trade.
- 1.4.4. **Quality of Recycled Material for Re-Use On Site:** Coordinate with testing requirements under the appropriate sections.

1.5. WASTE MANAGEMENT PLAN

- 1.5.1. **General:** Develop plan consisting of waste identification, waste reduction work plan, and cost/revenue analysis. Include separate sections in plan for different types of demolition waste. Indicate quantities by weight or volume, but use same units of measure throughout waste management plan.
- 1.5.2. **Waste Identification:** Indicate anticipated types and quantities of demolition and site-clearing waste generated by the Work in accordance with the District as defined below. Include estimated quantities and assumptions for estimates.
 - 1.5.2.1. Fully contained, segregated hazardous materials disposal.
 - 1.5.2.1.1. Class I Hazardous Materials Landfill
 - 1.5.2.2. Reuse of building materials or salvageable items.
 - 1.5.2.2.1. Wood trim, interior casework, historical items (Archive Project).
 - 1.5.2.2.2. Windows, doors, hardware.
 - 1.5.2.2.3. Equipment.
 - 1.5.2.3. Source separation of recyclable materials.
 - 1.5.2.3.1. Asphalt.
 - 1.5.2.3.2. Concrete, concrete block, decorative masonry, and rocks.
 - 1.5.2.3.3. Green Materials: Trees, stumps, trimmings, and land-clearing debris.
 - 1.5.2.3.4. Metal: Ferrous and non-ferrous.
 - 1.5.2.3.5. Brick.
 - 1.5.2.3.6. Soil.
 - 1.5.2.3.7. Wood: Flooring, sheathing, structural lumber, finish lumber.
 - 1.5.2.3.8. Gypsum board.
 - 1.5.2.4. On-site crushing of asphalt and concrete for use on or off-site.
 - 1.5.2.5. Mixed debris recycling facilities.
 - 1.5.2.5.1. For materials which cannot be feasibly separated.
 - 1.5.2.5.2. Ship to mixed materials recycling facility.
 - 1.5.2.6. Waste disposal to landfill.

- 1.5.2.6.1. For all remaining materials which cannot be recycled, reused, separated, or mixed.
 - 1.5.2.6.1.1. Ceiling tiles.
 - 1.5.2.6.1.2. Carpet.
 - 1.5.2.6.1.3. Plaster, stucco.
 - 1.5.2.6.1.4. Mixed demolition debris.
- 1.5.3. **Waste Reduction Work Plan:** List each type of waste and whether it will be salvaged, recycled, or disposed of in landfill or incinerator. Include points of waste generation, total quantity of each type of waste, quantity for each means of recovery, and handling and transportation procedures.
 - 1.5.3.1. Salvaged Materials for Reuse: For materials that will be salvaged and reused in this Project, describe methods for preparing salvaged materials before incorporation into the Work.
 - 1.5.3.2. Salvaged Materials for Sale: For materials that will be sold to individuals and organizations, include list of their names, addresses, and telephone numbers.
 - 1.5.3.3. Salvaged Materials for Donation: For materials that will be donated to individuals and organizations, include list of their names, addresses, and telephone numbers.
 - 1.5.3.4. Recycled Materials: Include list of local receivers and processors and type of recycled materials each will accept. Include names, addresses, and telephone numbers.
 - 1.5.3.5. Disposed Materials: Indicate how and where materials will be disposed of. Include name, address, and telephone number of each landfill and incinerator facility.
 - 1.5.3.6. Handling and Transportation Procedures: Include method that will be used for separating recyclable waste including sizes of containers, container labeling, and designated location on Project site where materials separation will be located.
- 1.5.4. **Cost/Revenue Analysis:** Indicate total cost of waste disposal as if there was no waste management plan and net additional cost or net savings resulting from implementing waste management plan. Include the following:
 - 1.5.4.1. Total quantity of waste.
 - 1.5.4.2. Estimated cost of disposal (cost per unit). Include hauling and tipping fees and cost of collection containers for each type of waste.
 - 1.5.4.3. Total cost of disposal (with no waste management).
 - 1.5.4.4. Revenue from salvaged materials.
 - 1.5.4.5. Revenue from recycled materials.
 - 1.5.4.6. Savings in hauling and tipping fees by donating materials.
 - 1.5.4.7. Savings in hauling and tipping fees that are avoided.
 - 1.5.4.8. Handling and transportation costs. Include cost of collection containers for each type of waste.
 - 1.5.4.9. Net additional cost or net savings from waste management plan.
- 1.5.5. **Forms:** Prepare waste management plan.
2. **PRODUCTS**
Not Used
3. **EXECUTION**
- 3.1. **PLAN IMPLEMENTATION**
- 3.1.1. **General:** Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.

- 3.1.2. **Waste Management Coordinator:** Waste management coordinator shall work with representative of the District for implementing, monitoring, and reporting status of waste management work plan. Coordinator shall be present at Project site for duration of project.
 - 3.1.3. **Training:** Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work occurring at Project site.
 - 3.1.3.1. Distribute waste management plan to everyone concerned within 3 days of submittal return.
 - 3.1.3.2. Distribute waste management plan to entities when they first begin work on-site. Review plan procedures and locations established for salvage, recycling, and disposal.
 - 3.1.4. **Site Access and Temporary Controls:** Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
 - 3.1.4.1. Designate and label specific areas on Project site necessary for separating materials that are to be salvaged, recycled, reused, donated, and sold.
 - 3.1.4.2. Comply with Temporary Facilities and Controls, for controlling dust and dirt, environmental protection, and noise control.
 - 3.1.5. **Weighing and Documentation:** Separate and weigh all items to be recycled or salvaged.
 - 3.1.5.1. Weight shall be measured by the ton or fraction thereof.
 - 3.1.5.2. Measurement of weight shall be by a properly calibrated scale bearing a current seal of the appropriate weights and measures representation.
 - 3.1.5.3. Measured weights shall be recorded along with all other required documentation.
- 3.2. DISPOSITION OF SALVAGED MATERIALS AND ITEMS**
- 3.2.1. Salvaged Materials for Reuse in the Work:
 - 3.2.1.1. Clean or wash salvaged items.
 - 3.2.1.2. Crush and stock pile material for re-use on-site or transport off site.
 - 3.2.1.3. Stockpile materials in an area which is safe from standing water or erosion.
 - 3.2.1.4. Protect stockpiles until ready for re-use.
 - 3.2.1.5. Re-install salvaged materials to comply with installation requirements for new materials.
 - 3.2.2. Salvaged Items are not permitted to be sold on Project site.
 - 3.2.3. Salvaged Items shall be removed from project site for disposition at an appropriate salvage supply yard.
 - 3.2.4. Salvaged Items for District's Use: None.
- 3.3. RECYCLING DEMOLITION WASTE, GENERAL**
- 3.3.1. **General:** Recycle paper and beverage containers used by on-site workers.
 - 3.3.2. **Waste Recycling Receivers and Processors:** Licensed entity normally engaged in the business of receiving, recycling, and processing waste materials with a minimum of 5 years of documented experience with the types of waste products to be processed under the provisions of this section.
 - 3.3.3. **Recycling Incentives:** Revenues, savings, rebates, tax credits, and other incentives received for recycling waste materials shall be shared equally by District and Developer
 - 3.3.4. **Procedures:** Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical.
 - 3.3.4.1. Provide appropriately marked containers or bins for controlling recyclable waste until they are removed from Project site. Include list of acceptable and unacceptable materials at each container and bin.
 - 3.3.4.2. Inspect containers and bins for contamination and remove contaminated materials if found.

- 3.3.4.3. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
- 3.3.4.4. Stockpile materials away from construction area. Do not store within drip line of remaining trees.
- 3.3.4.5. Store components off the ground and protect from the weather.
- 3.3.4.6. Remove recyclable waste off District's property and transport to recycling receiver or processor.

3.4. RECYCLING DEMOLITION WASTE

- 3.4.1. **Bituminous Concrete Paving:** Break up and transport paving to asphalt-recycling facility, or process on-site.
- 3.4.2. **Concrete Reinforcement:** Remove reinforcement and other metals from concrete and sort with other metals.
- 3.4.3. **Concrete:** Break up and transport to concrete-recycling facility or process on site.
- 3.4.4. **Concrete:** Crush concrete and screen to comply with requirements in Specifications regarding Earthwork: Re-use as fill at contractor's option.
- 3.4.5. **Masonry Reinforcement:** Remove metal reinforcement, anchors, and ties from masonry and sort with other metals.
- 3.4.6. **Masonry:** Crush masonry and screen to comply with requirements in Specifications regarding Earthwork for use as satisfactory soil for fill.
- 3.4.7. **Wood Materials:** Separate lumber, engineered wood products, panel products, and treated wood materials. Dispose of as salvage or recycle for filler or mulch at an appropriate facility.
- 3.4.8. **Metals:** Separate metals by type.
 - 3.4.8.1. Structural Steel and Other Metals: Separate members according to size, type of member, and length.
 - 3.4.8.2. Recycle bolts, nuts, washers, and other rough hardware.
 - 3.4.8.3. Non-Ferrous Metals: Separate by type.
- 3.4.9. **Asphalt Shingle Roofing:** Separate organic and glass-fiber asphalt shingles and felts. Remove and dispose of nails, staples, and accessories.
- 3.4.10. **Gypsum Board:** Stack large clean pieces on wood pallets and store in a dry location. Remove edge trim and sort with other metals. Remove and dispose of fasteners.
- 3.4.11. **Acoustical Ceiling Panels and Tile:** Stack large clean pieces on wood pallets and store in a dry location.
- 3.4.12. **Acoustical Ceiling Suspension Systems:** Separate suspension system, trim, and other metals from panels and tile and sort with other metals.
- 3.4.13. **Carpet and Pad:** Roll large pieces tightly after removing debris, trash, adhesive, and tack strips.
- 3.4.14. **Equipment: Drain tanks, piping, and fixtures:** Seal openings with caps or plugs. Protect equipment from exposure to weather. Sort and recycle by types of metal.
- 3.4.15. **Plumbing Fixtures:** Separate and recycle.
- 3.4.16. **Piping:** Reduce piping to straight lengths and arrange by type and size. Separate supports, hangers, valves, sprinklers, and other components by type and size.
Lighting Fixtures: Remove lamps and separate fixtures by type and protect from breakage and weather.
- 3.4.17. **Electrical Devices:** Separate switches, receptacles, switchgear, transformers, meters, panelboards, circuit breakers, and other devices by type.
- 3.4.18. **Conduit:** Reduce conduit to straight lengths and store by type and size.
- 3.4.19. **Green Materials:** Separate out roots, stumps, trunks, shrubs, mulch, and other green matter and transport off-site for appropriate processing.

3.5. DISPOSAL OF WASTE

- 3.5.1. **General:** Except for items or materials to be salvaged, recycled, or otherwise reused, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.
- 3.5.2. Do not allow waste materials that are to be disposed of accumulate on-site. Remove and transport debris in a manner that will prevent spillage on or off site.
- 3.5.3. **Burning:** Do not burn and waste materials on-site.
- 3.5.4. **Disposal:** Transport waste materials off site and legally dispose of them.

END OF DOCUMENT

OPERATION AND MAINTENANCE DATA

1. GENERAL

1.1. QUALITY ASSURANCE

Developer shall prepare instructions and data by personnel experienced in maintenance and operation of described products.

1.2. FORMAT

- 1.2.1. Developer shall prepare data in the form of an instructional manual entitled "OPERATIONS AND MAINTENANCE MANUAL & INSTRUCTIONS" ("Manual").
- 1.2.2. Binders: Developer shall use commercial quality, 8-1/2 by 11 inch, three-side rings, with durable plastic covers; two inch maximum ring size. When multiple binders are used, Developer shall correlate data into related consistent groupings.
- 1.2.3. Cover: Developer shall identify each binder with typed or printed title "OPERATION AND MAINTENANCE MANUAL & INSTRUCTIONS"; and shall list title of Project and identify subject matter of contents.
- 1.2.4. Developer shall arrange content by systems process flow under section numbers and sequence of Table of Contents of the Contract Documents.
- 1.2.5. Developer shall provide tabbed fly leaf for each separate Product and system, with typed description of Product and major component parts of equipment.
- 1.2.6. Text: The content shall include Manufacturer's printed data, or typewritten data on 24 pound paper.
- 1.2.7. Drawings: Developer shall provide with reinforced punched binder tab and shall bind in with text; folding larger drawings to size of text pages.

1.3. CONTENTS, EACH VOLUME

- 1.3.1. Table of Contents: Developer shall provide title of Project; names, addresses, and telephone numbers of the Architect, any engineers, subconsultants, Subcontractor(s), and Developer with name of responsible parties; and schedule of Products and systems, indexed to content of the volume.
- 1.3.2. For Each Product or System: Developer shall list names, addresses, and telephone numbers of Subcontractor(s) and suppliers, including local source of supplies and replacement parts.
- 1.3.3. Product Data: Developer shall mark each sheet to clearly identify specific Products and component parts, and data applicable to installation. Delete inapplicable information.
- 1.3.4. Drawings: Developer shall supplement Product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Developer shall not use Project Record Documents as maintenance drawings.
- 1.3.5. Text: The Developer shall include any and all information as required to supplement Product data. Developer shall provide logical sequence of instructions for each procedure, incorporating manufacturer's instructions.

1.4. MANUAL FOR MATERIALS AND FINISHES

- 1.4.1. Building Products, Applied Materials, and Finishes: Developer shall include Product data, with catalog number, size, composition, and color and texture designations. Developer shall provide information for re-ordering custom manufactured Products.
- 1.4.2. Instructions for Care and Maintenance: Developer shall include Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental agents and methods, and recommended schedule for cleaning and maintenance.
- 1.4.3. Moisture Protection and Weather Exposed Products: Developer shall include Product data listing applicable reference standards, chemical composition, and details of installation. Developer shall provide recommendations for inspections, maintenance, and repair.

- 1.4.4. Additional Requirements: Developer shall include all additional requirements as specified in the Specifications.
- 1.4.5. Developer shall provide a listing in Table of Contents for design data, with tabbed fly sheet and space for insertion of data.

1.5. MANUAL FOR EQUIPMENT AND SYSTEMS

- 1.5.1. Each Item of Equipment and Each System: Developer shall include description of unit or system, and component parts and identify function, normal operating characteristics, and limiting conditions. Developer shall include performance curves, with engineering data and tests, and complete nomenclature, and commercial number of replaceable parts.
- 1.5.2. Panelboard Circuit Directories: Developer shall provide electrical service characteristics, controls, and communications.
- 1.5.3. Developer shall include color coded wiring diagrams as installed.
- 1.5.4. Operating Procedures: Developer shall include start-up, break-in, and routine normal operating instructions and sequences. Developer shall include regulation, control, stopping, shut-down, and emergency instructions. Developer shall include summer, winter, and any special operating instructions.
- 1.5.5. Maintenance Requirements: Developer shall include routine procedures and guide for trouble-shooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.
- 1.5.6. Developer shall provide servicing and lubrication schedule, and list of lubricants required.
- 1.5.7. Developer shall include manufacturer's printed operation and maintenance instructions.
- 1.5.8. Developer shall include sequence of operation by controls manufacturer.
- 1.5.9. Developer shall provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.
- 1.5.10. Developer shall provide control diagrams by controls manufacturer as installed.
- 1.5.11. Developer shall provide Developer's coordination drawings, with color coded piping diagrams as installed.
- 1.5.12. Developer shall provide charts of valve tag numbers, with location and function of each valve, keyed to flow and control diagrams.
- 1.5.13. Developer shall provide list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.
- 1.5.14. Additional Requirements: Developer shall include all additional requirements as specified in Specification(s).
- 1.5.15. Developer shall provide a listing in Table of Contents for design data, with tabbed fly sheet and space for insertion of data.

1.6. SUBMITTAL

- 1.6.1. Concurrent with the Schedule of Submittals as indicated in the General Construction Provisions (Exhibit "D" to the Facilities Lease), Developer shall submit to the District for review two (2) copies of a preliminary draft of proposed formats and outlines of the contents of the Manual.
- 1.6.2. For equipment, or component parts of equipment put into service during construction and to be operated by District, Developer shall submit draft content for that portion of the Manual within ten (10) days after acceptance of that equipment or component.
- 1.6.3. On or before the Developer submits its final application for payment, Developer shall submit two (2) copies of a complete Manual in final form. The District will provide comments to Developer and Developer must revise the content of the Manual as required by District prior to District's approval of Developer's final Application for Payment.

- 1.6.4. Developer must submit two (2) copies of revised Manual in final form within ten (10) days after receiving District's comments. Failure to do so will be a basis for the District withholding funds sufficient to protect itself for Developer's failure to provide a final Manual to the District. All final documents to be concurrently provided to the District in an electronic format.

END OF DOCUMENT

WARRANTIES

1. GENERAL

1.1. FORMAT

- 1.1.1. Binders: Developer shall use commercial quality, 8-1/2 by 11 inch, three-side rings, with durable plastic covers; two inch maximum ring size.
- 1.1.2. Cover: Developer shall identify each binder with typed or printed title "WARRANTIES" and shall list title of Project.
- 1.1.3. Table of Contents: Developer shall provide title of Project; name, address, and telephone number of Developer and equipment supplier, and name of responsible principal. Developer shall identify each item with the number and title of the specific Specification, document, provision, or section in which the name of the Product or work item is specified.
- 1.1.4. Developer shall separate each warranty with index tab sheets keyed to the Table of Contents listing, providing full information and using separate typed sheets as necessary. Developer shall list each applicable and/or responsible Subcontractor(s), supplier(s), and/or manufacturer(s), with name, address, and telephone number of each responsible principal(s).

1.2. PREPARATION

- 1.2.1. Developer shall obtain warranties, executed in duplicate by each applicable and/or responsible subcontractor(s), supplier(s), and manufacturer(s), within ten (10) days after completion of the applicable item or work. Except for items put into use with District's permission, Developer shall leave date of beginning of time of warranty until the date of completion is determined.
- 1.2.2. Developer shall verify that warranties are in proper form, contain full information, and are notarized, when required.
- 1.2.3. Developer shall co-execute submittals when required.
- 1.2.4. Developer shall retain warranties until time specified for submittal.

1.3. TIME OF SUBMITTALS

- 1.3.1. For equipment or component parts of equipment put into service during construction with District's permission, Developer shall submit a draft warranty for that equipment or component within ten (10) days after acceptance of that equipment or component.
- 1.3.2. On or before the Developer submits its final application for payment, Developer shall submit all warranties and related documents in final form. The District will provide comments to Developer and Developer must revise the content of the warranties as required by District prior to District's approval of Developer's final Application for Payment.
- 1.3.3. For items of Work that are not completed until after the date of Completion, Developer shall provide an updated warranty for those item(s) of Work within ten (10) days after acceptance, listing the date of acceptance as start of warranty period.

END OF DOCUMENT

RECORD DOCUMENTS

1. RECORD DRAWINGS

1.1. GENERAL

- 1.1.1. "Record Drawings" may also be referred to in the Contract as "As-Built Drawings."
- 1.1.2. As indicated in the Contract Documents, District will provide Developer with one set of reproducible plans of the original Contract Drawings.
- 1.1.3. Developer shall maintain at each Project Site one (1) set of marked-up plans and shall transfer all changes and information to those marked-up plans, as often as required in the Contract Documents, but in no case less than once each month. Developer shall submit to the Project Inspector one set of reproducible vellums of the Project Record Drawings ("As-Built") showing all changes incorporated into the Work since the preceding monthly submittal. The As-Built shall be available at the Project Site. The Developer shall submit reproducible vellums at the conclusion of the Project following review of the blueline prints.
- 1.1.4. Label and date each Record Drawing "RECORD DOCUMENT" in legibly printed letters.
- 1.1.5. All deviations in construction, including but not limited to pipe and conduit locations and deviations caused by without limitation Change Orders, Construction Directives, RFI's, and Addenda, shall be accurately and legibly recorded by Developer
- 1.1.6. Locations and changes shall be done by Developer in a neat and legible manner and, where applicable, indicated by drawing a "cloud" around the changed or additional information.

1.2. RECORD DRAWING INFORMATION

- 1.2.1. Developer shall record the following information:
 - 1.2.1.1. Locations of Work buried under or outside each building, including, without limitation, all utilities, plumbing and electrical lines, and conduits.
 - 1.2.1.2. Actual numbering of each electrical circuit.
 - 1.2.1.3. Locations of significant Work concealed inside each building whose general locations are changed from those shown on the Contract Drawings.
 - 1.2.1.4. Locations of all items, not necessarily concealed, which vary from the Contract Documents.
 - 1.2.1.5. Installed location of all cathodic protection anodes.
 - 1.2.1.6. Deviations from the sizes, locations, and other features of installations shown in the Contract Documents.
 - 1.2.1.7. Locations of underground work, points of connection with existing utilities, changes in direction, valves, manholes, catch basins, capped stubouts, invert elevations, etc.
 - 1.2.1.8. Sufficient information to locate Work concealed in each building with reasonable ease and accuracy.
- 1.2.2. In some instances, this information may be recorded by dimension. In other instances, it may be recorded in relation to the spaces in the building near which it was installed.
- 1.2.3. Developer shall provide additional drawings as necessary for clarification.
- 1.2.4. Developer shall provide reproducible record drawings, made from final Shop Drawings marked "No Exceptions Taken" or "Approved as Noted."

2. RECORD SPECIFICATIONS

Developer shall mark each section legibly to record manufacturer, trade name, catalog number, and supplier of each Product and item of equipment actually installed.

3. MAINTENANCE OF RECORD DOCUMENTS

- 3.1. Developer shall store Record Documents apart from documents used for construction as follows:
 - 3.1.1. Provide files and racks for storage of Record Documents.
 - 3.1.2. Maintain Record Documents in a clean, dry, legible condition and in good order.

3.2. Developer shall not use Record Documents for construction purposes.

END OF DOCUMENT

COMMISSIONING

4. GENERAL

4.1. SUMMARY

- 4.1.1. Commissioning is a process for validating and documenting that the facility and its systems are constructed and perform in conformity with the Contract Documents.
- 4.1.2. The objective of the commissioning process is to verify that the performance of the facility and its systems meet or exceed the design intent.
- 4.1.3. Commissioning includes special facility start-up processes used to bring the facility to a fully operational state, free of deficiencies in an efficient and timely manner.
- 4.1.4. Training on related systems and equipment operation and maintenance shall be scheduled to commence only after start-up is complete and systems are verified to be 100% complete and functional.

4.2. DESCRIPTION

- 4.2.1. **Developer Startup:** Sub-phase of Developer's work ending with Acceptance of Work, during which Developer performs a pre-planned program of activities including starting, testing, inspecting, adjusting balancing, correcting deficiencies and other similar activities.
 - 4.2.1.1. The District, Construction Manager and Architect and the Inspector shall be present to observe, inspect and identify deficiencies in building systems operations.
- 4.2.2. The completion of startup means the entire Construction Project including startup and fine tuning has been performed to the requirements of the Contract Documents and is verified in writing by the District, Construction Manager and Architect.
- 4.2.3. **Fine Tuning:** Fine tuning is the responsibility of Developers after District occupancy and ending one (1) year after District occupancy. During this time the Developer is responsible for optimizing systems and correcting deficiencies arising under normal operating conditions.
 - 4.2.3.1. Includes a period after occupancy where systems are optimized under "live" operating conditions and all construction deficiencies are corrected.
 - 4.2.3.2. Fine Tuning shall extend from date of District occupancy to one year after occupancy.

4.3. DEFINITION OF TERMS

- 4.3.1. **Contractor's Pre-Commissioning Checklists:** Includes installation and start-up items as specified to be completed by the appropriate contractors prior to operational verification through the functional testing process.
- 4.3.2. **Installation Verification Process:** Includes the on-site inspection and review of related system components for conformance to Contract Documents. The Developer shall verify systems readiness for functional testing procedures prior to the start of functional testing. Deficiencies will be documented by the Inspector for future resolution.
- 4.3.3. **Functional Performance Testing Process:** Includes the documented testing of system parameters, under actual or simulated operating conditions. Final performance commissioning of systems will begin only after the appropriate Developer certifies that systems are 100% complete and ready for functional testing. The Developer will be required to schedule, coordinate and perform device tests, calibration and functional performance test procedures.
- 4.3.4. **Deficiencies and Resolutions List:** Includes a list of noted deficiencies discovered as a result of the commissioning process. This list also includes the current disposition of issues, and the date of final resolution as confirmed by the Construction Manager and Inspector. Deficiencies are defined as those issues where products execution or performance does not satisfy the Project Contract Documents and/or the design intent.

4.4. COMMISSIONING SCHEDULE

- 4.4.1. Provide schedules for Developer Start-Up work.
- 4.4.2. Incorporate in overall construction schedule.
- 4.4.3. Contractor's activities, which will be performed as specified under Fine Tuning, shall be completed within one (1) year from date of occupancy by the District.

4.5. SUBMITTALS

- 4.5.1. Submit Draft and Final Developer Start-up Forms as described in this Document. Submit Draft Report for Construction Manager and Architect's review and comment prior to Final Submission. Submit Final Report not later than twenty weeks before scheduled date of Acceptance of Work.
- 4.5.2. Prepare and submit one copy of report form to be used in preparation of reports for:
 - 4.5.2.1. Food Service Equipment.
 - 4.5.2.2. Gymnasium Equipment and Scoreboards
 - 4.5.2.3. Laboratory Fume Hoods
 - 4.5.2.4. Elevators
 - 4.5.2.5. Each mechanical system specified in the Specifications.
 - 4.5.2.6. Each Electrical system specified in the Specifications.
- 4.5.3. Each System Report shall be submitted including the following:
 - 4.5.3.1. Project Name
 - 4.5.3.2. Name of System
 - 4.5.3.3. Index of report's content
 - 4.5.3.4. Adjacent to list of equipment, columns to indicate status of equipment operation, to date and to sign off equipment start-up.
 - 4.5.3.5. Space to record equipment and operational problems which cannot be corrected with scheduled Developer Start-Up program and which may delay Acceptance of Work.
 - 4.5.3.6. Manufacturer's equipment start-up reports.
 - 4.5.3.7. Systems' testing, balancing, and adjusting reports.
 - 4.5.3.8. Equipment Report Forms shall include the following: Project name, name of equipment, starting and testing procedures to be performed and observations and test results to be recorded.

4.6. COMMISSIONING DUTIES AND RESPONSIBILITIES

- 4.6.1. Developer Duties and Responsibilities:
 - 4.6.1.1. Assure the participation and cooperation of Subcontractors and Suppliers under their jurisdictions as required to complete the commissioning process.
 - 4.6.1.2. Complete Commissioning Report Forms. Reports are to be completed in a neat easily readable condition.
 - 4.6.1.3. Complete the respective start-up and check out procedures and insure readiness of equipment and systems prior to the start of the functional performance testing. Written confirmation of system readiness for performance testing is required.
 - 4.6.1.4. Provide qualified representatives for the functional performance commissioning process.
 - 4.6.1.5. Assure that all subcontractors, suppliers, test and balance, controls, etc. include in their respective contracts cost necessary to participate in and complete the commissioning process.
- 4.6.2. **Duties and Responsibilities of Others for Commissioning:** The commissioning process requires the active participation of the Construction Manager, District, Architect and any other related Consultants on the project.

4.7. SYSTEM FAILURES

After a second failure of a system to successfully meet the criteria as set for in the functional performance testing process, the Developer shall reimburse the District for cost associated with any additional retesting required due to uncorrected deficiencies. Costs shall include salary, benefits, overhead, travel costs and per diem lodging costs if applicable.

END OF DOCUMENT



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SCHOOL DISTRICT**

Specifications
for
District Wide Security System Upgrade
MDUSD Project 1627
Bid Set
07/05/13

305 South 11th Street

San José, California 95112-2218

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SECTION 26 05 01
MINOR ELECTRICAL DEMOLITION

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Electrical demolition.

PART 2 PRODUCTS

2.01 MATERIALS AND EQUIPMENT

- A. Materials and equipment for patching and extending work: As specified in individual sections.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify field measurements and circuiting arrangements are as shown on Drawings.
- B. Verify that abandoned wiring and equipment serve only abandoned facilities.
- C. Demolition drawings are based on casual field observation and existing record documents.
- D. Report discrepancies to District before disturbing existing installation.
- E. Beginning of demolition means installer accepts existing conditions.

3.02 PREPARATION

- A. Disconnect electrical systems in walls, floors, and ceilings to be removed.
- B. Coordinate utility service outages with utility company.
- C. Provide temporary wiring and connections to maintain existing systems in service during construction. When work must be performed on energized equipment or circuits, use personnel experienced in such operations.
- D. Existing Electrical Service: Maintain existing system in service until new system is complete and ready for service. Disable system only to make switchovers and connections. Minimize outage duration.
 - 1. Obtain permission from District at least 24 hours before partially or completely disabling system.
 - 2. Make temporary connections to maintain service in areas adjacent to work area.
 - 3. Provide Security Watch for any times where campus is not protected by intrusion detection system, new or existing.

3.03 DEMOLITION AND EXTENSION OF EXISTING ELECTRICAL WORK

- A. Remove, relocate, and extend existing installations to accommodate new construction.
- B. Remove abandoned power circuit wiring back to source of supply.
- C. Remove abandoned security wiring back to closest junction or pullbox and label as abandoned.
- D. Remove exposed abandoned conduit, including abandoned conduit above accessible ceiling finishes. Cut conduit flush with walls and floors, and patch surfaces.
- E. Disconnect and remove electrical devices and equipment serving utilization equipment that has been removed.
- F. Repair adjacent construction and finishes damaged during demolition and extension work.
- G. Maintain access to existing electrical installations that remain active. Modify installation or provide access panel as appropriate.
- H. Extend existing installations using materials and methods compatible with existing electrical installations, or as specified.
- I. Turnover to the District any requested devices and equipment removed during demolition.
- J. Dispose of all material and equipment appropriately and in accordance with local and federal regulations. All fees and permits are to part of Qualification package.

3.04 CLEANING AND REPAIR

- A. Clean and repair existing materials and equipment that remain or that are to be reused.
- B. Panelboards: Provide typed circuit directory showing revised circuiting arrangement.

END OF SECTION

SECTION 26 05 10

ELECTRICAL GENERAL PROVISIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Furnish all labor, materials, apparatus, tools, equipment, transportation, temporary construction and special or occasional services as required to make a complete working electrical installation, as shown on the drawings or described in these specifications.

1.02 REFERENCES

- A. Reference to codes, standards, specifications and recommendations of technical societies, trade organizations and governmental agencies shall mean the latest edition of such publications adopted and published prior to submittal of the Qualification package proposed. Such codes or standards shall be considered a part of this specification as though fully repeated herein.
- B. When codes, standards, regulations, etc., allow work of lesser quality or extent than is specified under this Division, nothing in said codes shall be construed or inferred as reducing the quality, requirements or extent of the drawings and specifications.
- C. California Code of Regulations (CCR) Title 24, Part 3, Basic Electrical Requirements, State Building Standards Electrical Code
- D. National Fire Protection Association (NFPA).
- E. Equipment and materials specified under this Division shall conform to the following standards where applicable:
 - 1. UL Underwriters' Laboratories
 - 2. ASTM American Society for Testing Materials
 - 3. CMB Certified Ballast Manufacturers
 - 4. IPCEA Insulated Power Cable Engineer Assoc.
 - 5. NEMA National Electrical Manufacturer's Assn.
 - 6. ANSI American National Standards Institute
 - 7. ETL Electrical Testing Laboratories
- F. All base material shall be ASTM and/or ANSI standards.
- G. All electrical apparatus furnished under this Section shall conform to National Electrical Manufacturers Association (NEMA) standards and the NEC and bear the Underwriters' Laboratories (UL) label where such label is applicable.

1.03 SUBMITTALS

- A. See Division 1 for submittal procedures.
- B. Where items are noted as "or equal" a product of equal design, construction and performance will be considered. Contractor must submit all pertinent test data, catalog cuts and product information required to substantiate that the product is in fact equal. Refer to Division 1, General Requirement for additional requirements. Only one substitution will be considered for each product specified.
- C. Submittals shall consist of detailed shop drawings, specifications, "catalog cuts" and data sheets containing physical and dimensioned information, performance data, electrical characteristics, material used in fabrication, material finish and shall clearly indicate those optional accessories which are included and those which are excluded. Furnish one reproducible and 4 prints of each shop drawing.

1.04 CUTTING, PAINTING AND PATCHING

- A. Structural members shall in no case be drilled, bored or notched in such a manner that will impair their structural value. Cutting of holes, if required, shall be done with core drill and only with the approval of the Engineer.

- B. Cutting and digging shall be under the direct supervision of the General Contractor. Include as necessary for the work in this section.
- C. The contractor shall be responsible for returning any surface from which he has removed equipment or devices to the condition and finish of the adjacent surfaces.

1.05 SUPERVISION

- A. Contractor shall personally or through an authorized and competent representative constantly supervise the work from beginning to completion and, within reason, keep the same workmen and foreman on the project throughout the project duration.

1.06 PROTECTION

- A. Keep conduits, junction boxes, and outlet boxes, and other openings closed to prevent entry of foreign matter: cover fixtures, equipment, and apparatus and protect against dirt, paint, water, chemical, or mechanical damage, before and during construction period. Restore to original condition any fixture, apparatus, or equipment damaged prior to final acceptance, including restoration of damaged shop coats of paint, before final acceptance. Protect bright finished surfaces and similar items until in service. No rust or damage will be permitted.

1.07 EXAMINATION OF SITE

- A. The Contractor shall visit the site and determine the locale, working conditions, conflicting utilities, and the conditions in which the electrical work will take place. No allowances will be made subsequently for any costs which may be incurred because of any error or omission due to failure to examine the site and to notify the Engineer of any discrepancies between drawings and specifications and actual site conditions. Schedule visits at least 1 week in advance with District's Maintenance staff.

1.08 ENVIRONMENTAL REQUIREMENTS

- A. After other work such as sanding, painting etc. has been completed, clean lighting fixtures, panelboards, switchboards, and other electrical equipment to remove dust, dirt, and grease, or other marks, and leave work in clean condition.

1.09 VOLTAGE CHECK

- A. At completion of job, check voltage at several points of utilization on the system which has been installed under this contract. During test, energize all loads installed. Measure 3-Phase voltages and note percentage differences. Submit report to Engineer. Include copy in O&M Manual.

1.10 TESTS

- A. Perform tests as specified to prove installation is in accordance with contract requirements. Perform tests in the presence of the Engineer and furnish test equipment, facilities, and technical personnel required to perform tests. Tests shall be conducted during the construction period and at completion to determine conformity with applicable codes and with these Specifications. Tests, in addition to specific system test described elsewhere, shall include:
 - 1. Insulation Resistance: All 600 volt insulation shall be tested at 1,000 volts D.C for one minute on all feeder and branch circuit conductors including the neutral, and make a typed record of all readings to be included in the maintenance instructions. The direct current amperes shall be recorded at start and at one minute. The value shall be declining and not more than one microampere.
 - 2. Circuit Continuity: Test all feeder and branch circuits for continuity. Test all neutrals for improper ground.
- B. Equipment Operations: Test motors for correct operation and rotation.
- C. Product Failure: Any products which fail during the tests or are ruled unsatisfactory by the Engineer shall be replaced, repaired, or corrected as prescribed by the Engineer at the expense of the Contractor. Tests shall be performed after repairs, replacements, or corrections until satisfactory performance is demonstrated.

- D. Miscellaneous: Include all test results in the maintenance manual. Cost, if any, for all tests shall be paid by the Contractor.

1.11 DRAWINGS

- A. Layout: General layout shown on the drawing shall be followed except where other work may conflict with the drawings.
- B. Accuracy:
 - 1. Drawings for the work under this section are diagrammatic.
 - 2. Contractor shall verify lines, levels, and dimensions shown on the drawings and shall be responsible for the accuracy of the setting out of work and for its strict conformance with existing conditions at the site.
 - 3. Contractor shall insure reconnection of existing equipment and circuits affected by contract demolition whether or not reconnection is specifically shown on the contract documents.

1.12 PROJECT RECORD DRAWINGS

- A. Refer to General Conditions for contractual requirements. Provide project record drawings as required by the General Provisions of the specifications and as required herein. Such drawings shall fully represent installed conditions including actual locations of outlets, true panelboard connections following phase balancing routines, correct conduit and wire sizing as well as routing, revised fixture schedule listing the manufacturer and products actually installed and revised panel schedule. All changes to drawings shall be made by qualified draftspersons to match existing linework and lettering as close as possible. When all the changes have been made to the trade drawings, contractor shall produce one (3) full size (E-Size) updated set of trade drawing(s) utilizing AutoCad 2008 or newer and supply one (1) set of Compact Discs (CD's) reflecting same.

1.13 MAINTENANCE AND OPERATING INSTRUCTIONS

- A. Furnish to the Engineer four (4) hard back 3-ring binders containing all bulletins, operating and maintenance instructions and part lists and other pertinent information for each and every piece of equipment furnished under this specification. Include service telephone numbers. Each binder shall be indexed into sections and labeled for easy reference. Bulletins containing more information than the equipment concerned shall be properly stripped and assembled.

1.14 WARRANTIES

- A. Furnish to the Engineer four (4) hard back 3-ring binders containing all warranties of every piece of equipment furnished under this specification. Include terms and limitations of warranties, contact names, addresses, and telephone numbers of manufacturer. Each binder shall be indexed into sections and labeled for easy reference for each equipment warranty.

1.15 EXTRA MATERIALS

- A. See Division 1 - Product Requirements, for additional provisions.
- B. All special tools for proper operation and maintenance of the equipment provided under this Section shall be delivered to the District's representative

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 WORKMANSHIP

- A. Preparation, handling, and installation shall be in accordance with manufacturer's written instructions and technical data particular to the product specified and/or accepted equal except as otherwise specified. Coordinate work and cooperate with others in furnishing and placing this work. Work to reviewed shop drawings for work done by others and to field measurements as necessary to properly fit the work.
- B. Conform to the National Electrical Contractor's Association "Standard of Installation" for general installation practice.

3.02 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

END OF SECTION

SECTION 26 05 12
BASIC MATERIAL AND METHODS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Conduit, raceways and fittings.
- B. Wires and Cables for 600 Volts and less.
- C. Wire connections.
- D. Wire devices.
- E. Outlet boxes.
- F. Pull and junction boxes.
- G. Disconnect Switches.
- H. Fuses.
- I. Supporting Devices.
- J. Identifying Devices.
- K. Grounding and Bonding

1.02 SUBMITTALS

- A. Submit in accordance with the requirements of Division 1 the following items:
- B. A list of conduit types indicating where each type of conduit will be used. Indicate conduit manufacturers and fittings to be used.
- C. Wires and Cables.
- D. Wiring Devices and Plates
- E. Nameplates, including engraving schedules where engraved plates are specified.
- F. Fused disconnect switches.

1.03 QUALITY ASSURANCE

- A. Conform to requirements of NFPA 70.
- B. Products: Listed and classified by Underwriters Laboratories, Inc. as suitable for the purpose specified and indicated.

1.04 REFERENCES

- A. ANSI C80.1 - Rigid Steel Conduit, Zinc Coated - latest edition.
- B. ANSI C80.3 - Electrical Metallic Tubing, Zinc Coated - latest edition.
- C. ANSI C80.5 - Rigid Aluminum Conduit - latest edition.
- D. NECA (INST) - Standard of Installation; National Electrical Contractors Association - latest edition.
- E. NEMA FB 1 - Fittings, Cast Metal Boxes, and Conduit Bodies for Conduit and Cable Assemblies; latest edition.
- F. NEMA RN 1 - Polyvinyl Chloride (PVC) Externally Coated Galvanized Rigid Steel Conduit and Intermediate Metal Conduit - latest edition.
- G. NEMA TC 2 - Electrical Plastic Tubing (EPT) and Conduit (EPC-40 and EPC-80) - latest edition.
- H. NEMA TC 3 - PVC Fittings for Use with Rigid PVC Conduit and Tubing - latest edition.
- I. NFPA 70 - National Electrical Code - latest edition.

PART 2 PRODUCTS

2.01 CONDUIT, RACEWAYS AND FITTINGS

- A. Rigid Steel Conduit

1. Rigid steel conduit shall be full weight, pipe size, finished inside and out by hot-dip galvanizing after fabrication, and shall conform with ANSI C80.1 and UL.
 2. Couplings shall be electroplated steel.
 3. Insulating Bushings: Threaded polypropylene or thermo-setting phenolic rated 150°C minimum.
 4. Insulated grounding Bushings: Threaded cast malleable iron body with insulated throat and steel "lay-in" ground lug with compression screw.
 5. Insulated Metallic Bushings: Threaded cast malleable iron body with plastic insulated throat rated 150°C.
 6. Running threads are not acceptable.
- B. Electrical Metallic Tubing (EMT):
1. Conduit: Conduit shall be formed of cold rolled strip steel, and shall comply with ANSI C80.3 and UL requirements.
 2. Couplings: Electroplated steel, UL listed rain and concrete tight through 1-1/4" trade size. All EMT fittings shall be compression type.
 3. Connectors: Steel, gland compression type with insulated plastic throat, 150°C temperature rated. All EMT fittings shall be compression type.
- C. Liquid Tight Flexible Metal Conduit:
1. Conduit: Conduit shall be fabricated in continuous lengths from galvanized steel strip, spirally wound. Flexible conduit, except where installed in concealed dry locations, shall be liquid tight with plastic jacket extruded over the outer zinc coating. No aluminum substitute will be accepted.
 2. Fittings: Connectors shall be the screw clamp on screw-in (Jake) variety with cast malleable iron bodies and threaded male hubs with insulated throat or insulated bushings. Set screw type connectors are not acceptable. Liquid tight fittings shall be of cadmium plated cast malleable iron, with insulated throat.
- D. Rigid Non-Metallic Conduit:
1. Conduit and fittings shall be homogeneous plastic material free from visible cracks, holes or foreign inclusions. The conduit bore shall be smooth and free of blisters, nicks or other imperfections which could damage conductors or cables.
 2. Materials: Polyvinyl Chloride (PVC) schedule 40. Material shall comply with NEMA TC-2 for conduit and NEMA TC-3 for fittings.
- E. Surface Raceway
1. Manufacturer: Legrand, Wiremold V2000 series, or approved equal.
 2. Raceway shall be metal, single channel, 2 piece.
 3. Fittings shall be part of proprietary series raceway system.

2.02 WIRING AND CABLES

- A. Acceptable manufacturers: Southwire, or approved equal.
- B. Conductor material: All wire and cable shall be insulated, stranded copper conductors. Soft drawn annealed copper wire 98% conductivity, bearing the UL label.
- C. Minimum conductor size: AWG No. 12 for all power and lighting branch circuits. AWG No. 14 for all signal and control circuits.
- D. Color Coding: System conductors shall be identified as to voltage and phase connections by means of color impregnated insulation or approved colored marking tape as follows:
- E. For 120/240 volt, single phase, 3 wire system.
1. Phase A - Black
 2. Phase B - Red
 3. Phase C - Orange for High Leg (208v to neutral)
 4. Neutral - White
 5. Ground - Green
- F. For 120/208 volt, 3 phase, 4 wire systems.

1. Phase A - Black
 2. Phase B - Red
 3. Phase C - Blue
 4. Neutral - White
 5. Ground - Green
- G. for 277/480 Volt, 3 phase, 4 wire system
1. Phase A - Brown
 2. Phase B - Orange
 3. Phase C - Yellow
 4. Neutral - Grey
 5. Ground - Green
- H. Secondary Wire and Cable, 0 to 600 Volts;
1. NEC Type THWN, or Type XHHW for feeders and branch circuits in wet or dry locations.
NEC type THHN for branch circuits in dry locations.

2.03 WIRE CONNECTION

- A. Wire Joints: Wires in sizes from #18 to #8 AWG, stranded conductor, with insulation rated 105 degrees C. or less shall be joined with electrical spring connectors of three part construction incorporating a non-restricted, zinc coated steel spring enclosed in a steel shell with an outer jacket of vinyl plastic with a flexible insulating skirt.
- B. Mechanical Compression Connectors and Taps: Stranded conductors from #6 AWG to 750 Kcmil shall be joined or tapped using bolted pressure connectors having cast bronze compression bolts. Fittings shall be wide range-taking and designed to facilitate the making of parallel taps, tees, crosses or end-to-end connections. Split-bolt connectors will not be acceptable.
- C. Fixture Connections: Splice fixture wire to circuit wiring with solderless connectors as specified above in paragraph A.
- D. Terminating Lugs: Conductors from size No. 6 AWG to 750 Kcmil, copper, shall be terminated using tin plated hydraulically operated crimping tools and dies as stipulated by the lug manufacturer. Lugs shall be 3M "Scotchlok" series 30000, Burndy Type Ya-L series, or equal.
- E. Splicing and Insulating Tape (600 volts and below): General purpose electrical tape shall be suitable for temperatures from minus 18 degrees C to 105 degrees C, shall be black, ultraviolet proof, self-extinguishing, 7 mil thick vinyl with a dielectric strength of 10,000 volts. Apply 4 layers half-lap with 2" over-lap on each conductor.
- F. Insulating Putty (600 volts and below): Pads or rolls of non-corrosive, self-fusing, one eight inch thick rubber putty with PVC backing sheet. Putty shall be suitable for temperatures from minus 17.8 degrees C to 37.8 degrees C and shall have a dielectric strength of 570 volts/mil minimum.
- G. Insulating Resin: Two Part liquid epoxy resin with resin and catalyst in pre measured, sealed mixing pouch. Resin shall have a set up time of approximately 30 minutes at 21.1 degrees C, and shall have thermal and dielectric properties equal to the insulation properties of the cables immersed in the resin.
- H. Terminal Strip Connectors: Terminate wire in locking tongue style, pressure type, solderless lug where applicable.

2.04 WIRING DEVICES

- A. Switches: Specification grade, flush mounting, quiet operating AC type, with toggle operator, heat resistant plastic housing and self grounding metal strap. Silver or silver alloy contact. Rated 20A at 120-277V and capable of full capacity on tungsten or fluorescent lamp load. Design for up to #10 wire. Use single pole, double pole, three-way, four-way, lighted, pilot, or keyed type, as indicated on drawings or required. Provide white color unless otherwise noted. Manufacturer: Leviton, Arrow Hart, or Hubbell.
- B. Receptacles: Specification grade, flush mounting receptacles with nylon face. High grade brass allow triple wipe contacts. Provide 2 pole, 3 wire grounding type with a green colored brass

hexagonal equipment grounding screw. Grounding shall be rivetless, single piece brass with no mechanical connections in the primary path between point of ground wire termination and ground blades. Use 20A rated receptacles, white in color, unless otherwise noted.

Manufacturer: Leviton, Arrow Hart, or Hubbell.

1. Isolated Ground - Provide separate path to ground, with orange faceplate or triangle to indicated isolated ground
 2. GFCI - Equipped with diagnostic indicator for miswiring.
 3. Weatherproof - GFCI type, outdoor rated, with metal lockable while in use cover
- C. Faceplates: Provide nylon cover faceplates for wall receptacles, outlets, and switches. Include thermal mounting screws that match plate and device color. Manufacturer: Leviton, Arrow Hart, or Hubbell.

2.05 OUTLET BOXES

- A. Standard outlet boxes: Galvanized, die formed or drawn steel, knock-out type of size and configuration best suited to the application indicated on the plans. Minimum box size, 4 inch square by 1-1/2 inch deep, indoor use. FS cast boxes are required for outdoor use.
- B. Cast Metal Outlet Boxes: FS/FD cast boxes are required for outdoor use. Malleable iron alloy with threaded hubs and mounting lugs as required. Boxes shall be furnished with cast cover plates of the same material as the box and neoprene cover gaskets. Thomas and Betts, Crouse-Hinds, Appleton or equal.
- C. Conduit Outlet Bodies: Cadmium plated, cast iron alloy. Obround conduit outlet bodies with threaded conduit hubs and neoprene gasketed, cast iron covers. Outlet bodies shall be used to facilitate pulling of conductors or to make changes in conduit direction only. Splices are not permitted in conduit outlet bodies. Thomas and Betts, Crouse Hinds Form 8 Condulets, Appleton form 35 Unilets, or equal.

2.06 PULL AND JUNCTION

- A. Sheet Metal Boxes: Use standard outlet or concrete ring boxes wherever possible; otherwise use minimum 15 gauge galvanized metal, NEMA 1 boxes, sized to code requirements with covers secured by cadmium plated machine screws located 6 inches on centers. Circle AW Products, Hoffman Engineering Co., or equal.
- B. Cast Metal Boxes: Use standard cast malleable iron outlet or device boxes wherever possible; otherwise use cadmium plated, cast malleable iron junction boxes with bolt-on, interchangeable conduit hub plates with neoprene gaskets. Appleton FS/FD series; Crouse Hinds FS/FD series, or equal.

2.07 DISCONNECT SWITCHES

- A. All disconnect switches shall be heavy-duty type and have the number of poles, voltage rating, and horsepower rating as required by the motor or equipment. Disconnect switches shall be in enclosures to suit conditions, NEMA 3R for outdoor and NEMA 1 for indoor. Disconnect switches shall be fused unless otherwise noted on the drawings. As manufactured by: Square D - Class 3110, ITE Siemens, or equal.

2.08 FUSES

- A. Dual Element, Time Delay, UL Class RK5. Rejection type. Size and Voltage as indicated on equipment. Bussman, Little Fuse, or approved equal.

2.09 ELECTRICAL SUPPORTING DEVICES

- A. Concrete Fasteners: Hilti Kwik Bolt TZ or equal, self drilling expansion type concrete anchor.
- B. Conduit Straps: Hot-dip galvanized, cast malleable iron, two hole type strap with cast clamp-backs and spacers as required. OZ/Gedney, Thomas & Betts, or equal.
- C. Construction Channel: 1-1/2 inch by 1-1/2 inch 12 gauge galvanized steel channel with 17/32 inch diameter bolt holes, 1-1/2 inch on center, in the base of the channel. Kindorf 905 series, Unistrut P-1000-HS or equal.

- D. Cable Ties and Clamps: Thomas and Betts Co. "Ty-Raps" Panduit "Pan-Ty" or equal one piece, nylon, reusable type lashing ties.
- E. Fasteners (General) : Wood screws for fastening to wood. Machine screws for fastening to steel. Toggle bolts for fastening to hollow concrete block, gypsum board, or plaster walls. Expansion anchors for attachments to pre-poured concrete.

2.10 IDENTIFYING DEVICES

- A. Nameplates: Type NP: Engraved black bakelite, 1 inch by 3-1/2 inch, 1/8 inch high white letters, machine screw retained. For permanent identification of all switchboards, panelboards, circuit breakers in separate enclosures, motor starters, relays, time switches, disconnect switches and other cabinet-enclosed apparatus including terminal cabinets or match existing as closely as possible.
- B. Legend Plates: Type LP: Die-stamped metal legend plate with mounting hole and positioning key for attachment to panel mounted operators' devices. Engraved paint-filled characters as specified.
- C. Wire & Terminal Markers: Self-adhering, pre-printed vinyl with self-laminating wrap around strip. Markers shall be legible after termination. Brady B191 series, Thomas & Betts WSL series or equal.
- D. Conductor Phase Markers: Thomas & Betts WCPHAS series or similar in addition to colored marking as specified under this section of the specifications.

2.11 GROUNDING AND BONDING

- A. Ground Rods
 - 1. Manufacturer: Blackburn, Erico, or approved Equal
 - 2. Size: 3/4" x 10' Ground Rods
- B. Grounding Electrode Conductor, 2/0 for foundation foos, and per NEC.
- C. Grounding Well - Christy Box, G5 Traffic Valve Box.

PART 3 EXECUTION

3.01 CONDUIT AND RACEWAY APPLICATIONS

- A. Rigid Steel Conduit: Use rigid steel conduit for the following locations or conditions:
 - 1. All exterior applications
 - 2. All conduits larger than 2" trade diameter.
 - 3. All conduits indoor below eight (8) feet above finished floor.
- B. Electrical Metallic Tubing (EMT): EMT is allowed for the following conditions:
 - 1. Interior only and above eight (8) feet from finished floor.
 - 2. Interior only and when entering a panel from above.
- C. Liquidtight Flexible Metallic Conduit: Use Liquidtight for the following conditions:
 - 1. In damp and wet locations for connections to motors, transformers, vibrating equipment and machinery.
 - 2. Connections to all pump motors, flow switches, and similar devices.
- D. Rigid Non-Metallic Conduit, Polyvinyl Chloride (PVC) Schedule 40:
 - 1. Underground installation.
- E. Surface Raceway:
 - 1. Interior only.
 - 2. Wiremold shall be screwed to wall every section at 2' intervals minimum.

3.02 CONDUIT INSTALLATION

- A. General
 - 1. All conduit runs shown on the plans are sized based on the use of rigid steel conduit and THWN copper conductors. If conductor type is changed the contractor shall be responsible for resizing conduits to meet code. In no case is conduit to be sized smaller than 3/4" trade diameter.

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2. Low voltage wiring shall be installed in conduit, minimum 3/4" trade diameter.
 3. Conduits shall be tightly covered and well protected during construction using metallic bushings and bushing "pennies" to seal open ends.
 4. In making joints in rigid steel conduit, ream conduit smooth after cutting and threading.
 5. Clean any conduit in which moisture or any foreign matter has collected before pulling in conductors. Paint all field threaded joints to prevent corrosion.
 6. In all empty conduits or ducts, install an mule tape.
 7. Conduit systems shall be electrically continuous throughout. Install code size, uninsulated, copper grounding conductors in all conduit runs, grounding conductor shall be bonded to conduit, equipment frames and properly grounded.
- B. Layout:
1. All new conduits shall be concealed. Any field conditions that does not allow concealment of conduits shall be reviewed with the Engineer prior to rough-in.
 2. Locations of conduit runs shall be planned in advance of the installation and coordinated with concrete work, plumbing and framing.
 3. Where practical install conduits in groups in parallel vertical or horizontal runs and at elevations that avoid unnecessary off-sets.
 4. Low voltage conduit shall be grouped separately and labelled every 10 ft interval as to system (i.e. fire, control, etc)
 5. Exposed conduit shall be run parallel or at right angles to the centerlines of the columns and beams.
 6. Conduits shall not be placed closer than 12 inches from a parallel hot water or steam line or three inches from such lines crossing perpendicular to the runs.
 7. In long runs of conduit, provide sufficient pull boxes per NEC inside buildings to facilitate pulling wires and cables. Support pull boxes from structure independent of conduit supports. These pull boxes are not shown on the plans.
 8. Where necessary and approved by District and Engineer, exposed conduit may be installed. Contractor to route exposed conduit so as to cause as little disturbance to existing areas and may not be over or through existing site furniture, windows, or equipment.
- C. Supports:
1. All raceway systems shall be secured to building structures using specified fasteners, clamps and hangers spaced according to Code.
 2. Support single runs of conduit using two hole pipe straps. Where run horizontally on walls in damp or wet locations, install "clamp blocks" to space conduit off the surface.
 3. Multiple conduit runs shall be supported using "trapeze" hangers fabricated from 3/8 inch diameter, threaded steel rods secured to building structures. Fasten conduit to construction channel with standard two hole pipe clamps. Provide lateral seismic bracing for hangers.
 4. Installation
 - a. Locate and install anchors, fasteners, and supports in accordance with NECA "Standard of Installation".
 - 1) Do not fasten supports to pipes, ducts, mechanical equipment, or conduit.
 - 2) Do not drill or cut structural members.
 - b. Rigidly weld support members or use hexagon-head bolts to present neat appearance with adequate strength and rigidity. Use spring lock washers under all nuts.
 - c. Install surface-mounted cabinets and panelboards with minimum of four anchors.
 - d. In wet and damp locations use steel channel supports to stand cabinets and panelboards 1 inch off wall.
 - e. Use sheet metal channel to bridge studs above and below cabinets and panelboards recessed in hollow partitions.
- D. Terminations and Joints:
1. Raceways shall be joined using specified couplings or transition couplings where dissimilar raceway systems are joined.

2. Rigid conduit connection to enclosures shall be made by Myers type grounding hubs only. EMT connections to enclosures shall be made with compression connector with grounding lock-nuts or bushings.
 3. Conduit terminations exposed at weatherproof enclosures and cast outlet boxes shall be made watertight using appropriate connectors and hubs.
 4. Install expansion couplings where any conduit crosses a building separation or expansion joint.
 5. Install cable sealing bushings on all conduits originating outside the building walls and terminating in switchgear, cabinets or gutters inside the building. Install cable sealing bushings or caulk conduit terminations in all grade level or below grade exterior pull, junction or outlet boxes.
- E. Penetrations:
1. Furnish and install metal sleeves for all exposed interior conduit runs passing through concrete floors or walls. Following conduit installation, seal all penetrations using non-iron bearing, chloride free, non-shrinking, dry-pack, grouting compound.
 2. Install specified watertight conduit entrance seals and membrane clamps at all below grade wall and floor penetrations. Conduits penetrating exterior building walls and building floor slab shall be insulated rigid steel.
 3. Conduits penetrating rated walls, floors, etc. shall be fireproofed.

3.03 CABLE AND WIRE INSTALLATION

- A. Examination
1. Verify that interior of building has been protected from weather.
 2. Verify that mechanical work likely to damage wire and cable has been completed.
 3. Verify that raceway installation is complete and supported.
 4. Verify that field measurements are as indicated.
- B. Preparation
1. In existing conduits that will be reused, pull out existing conductors.
 2. Completely and thoroughly swab raceway before installing wire.
 3. Use 50/50 solution of Simple Green. Use CO2 to blow water and soap into conduit - let soak to break up dried out pulling compounds, then pull conductors. Pull one conductor at a time if will not pull all out together.
- C. General:
1. Conductors shall not be in conduit until all work of any nature that may cause injury is completed. Care should be taken in pulling conductors that insulation is not damaged. U.L. approved non-petroleum base and insulating type pulling compound shall be used as needed.
 2. All cables shall be installed and tested in accordance with manufacturer's requirements and warranty.
 3. Block and tackle, power driven winch or other mechanical means shall not be used in pulling conductors of size smaller than AWG # 1.
- D. Splicing and Terminating:
1. All aspects of splicing and terminating shall be in accordance with cable manufacturer's published procedures.
 2. Make up all splices in outlet boxes with connectors as specified herein with separate tails of correct color to be made up to splice. Provide at least six (6) inches of tails packed in box after splice is made up.
 3. All wire and cable in panels, control centers and equipment enclosures shall be bundled and clamped.
 4. Encapsulate splices in exterior outlet, junction and pull boxes using insulating resin kits. All splices for exterior equipment in pump rooms shall be made up watertight.
 5. Insulate mechanical compression taps AWG # 1/0 and larger using pre-molded, snap-on insulating boots or specified conformable insulating putty overwrapped with two half-lapped layers of insulating tape.

E. Identification:

1. Securely tag all branch circuits, noting the purpose of each. Mark conductors with vinyl wrap-around markers. Where more than two conductors run through a single outlet, mark each circuit with the corresponding circuit number at the panelboard.
2. Color code conductors size #6 and larger using specified phase color markers and identification tags.
3. All terminal strips are to have each individual terminal identified with specified vinyl markers.
4. All identification shall be legible and readable after completion of installation.
5. Provide labeling for all switches and receptacle outlets. Self-adhering machine clear tape with black letters.

3.04 INSTALLATION:

- A. Route wire and cable as required to meet project conditions.
 1. Wire and cable routing indicated is approximate unless dimensioned.
 2. Where wire and cable destination is indicated and routing is not shown, determine exact routing and lengths required.
 3. Include wire and cable of lengths required to install connected devices within 30 ft of location shown.
- B. Install wire and cable in accordance with the NECA "Standard of Installation."
- C. Use wiring methods indicated.
- D. Pull all conductors into raceway at same time.
- E. Use suitable wire pulling lubricant for building wire 4 AWG and larger.
- F. Protect exposed cable from damage.
- G. Support cables above accessible ceiling, using spring metal clips or metal cable ties to support cables from structure or ceiling suspension system. Do not rest cable on ceiling panels.
- H. Use suitable cable fittings and connectors.
- I. Neatly train and lace wiring inside boxes, equipment, and panelboards.
- J. Clean conductor surfaces before installing lugs and connectors.
- K. Make splices, taps, and terminations to carry full ampacity of conductors with no perceptible temperature rise.
- L. Terminate aluminum conductors with tin-plated aluminum-bodied compression connectors only. Fill with anti-oxidant compound before installing conductor.
- M. Use suitable reducing connectors or mechanical connector adaptors for connecting aluminum conductors to copper conductors.
- N. Use split bolt connectors for copper conductor splices and taps, 6 AWG and larger. Tape uninsulated conductors and connector with electrical tape to 150 percent of insulation rating of conductor.
- O. Use solderless pressure connectors with insulating covers for copper conductor splices and taps, 8 AWG and smaller.
- P. Use insulated spring wire connectors with plastic caps for copper conductor splices and taps, 10 AWG and smaller.
- Q. Trench and backfill for direct burial cable installation as specified in Underground Structure Section. Install warning tape along entire length of direct burial cable.
- R. Identify and color code wire and cable. Identify each conductor with its circuit number or other designation indicated.

3.05 ELECTRICAL CONNECTIONS

- A. Make electrical connections in accordance with equipment manufacturer's instructions.

- B. Make conduit connections to equipment using flexible conduit. Use liquidtight flexible conduit with watertight connectors in damp or wet locations.
- C. Connect heat producing equipment using wire and cable with insulation suitable for temperatures encountered.
- D. Provide receptacle outlet to accommodate connection with attachment plug.
- E. Provide cord and cap where field-supplied attachment plug is required.
- F. Install suitable strain-relief clamps and fittings for cord connections at outlet boxes and equipment connection boxes.
- G. Install disconnect switches, controllers, control stations, and control devices to complete equipment wiring requirements.
- H. Install terminal block jumpers to complete equipment wiring requirements.
- I. Install interconnecting conduit and wiring between devices and equipment to complete equipment wiring requirements.

3.06 INSTALLATION OF BOXES

- A. General:
 - 1. Leave no un-used openings in any box. Install close-up plugs as required to seal openings.
 - 2. Exposed outlet boxes and boxes in damp or wet locations shall be cast metal with gasketed cast metal cover plates.
- B. Box Layout:
 - 1. Outlet boxes shall be installed at the locations and elevations shown on the drawings or specified herein. Make adjustments to locations as required by structural conditions and to suit coordination requirements of other trades.
 - 2. Install junction or pullboxes where required to limit bends in conduit runs to not more than 360 degrees or where pulling tension achieved would exceed the maximum allowable for the cable to be installed. Consult wire and cable manufacturer.

3.07 INSTALLATION OF WIRING DEVICES

- A. General
 - 1. Install all devices flushmounted unless otherwise noted on the drawings. Comply with layout drawings for general locations. Consult Engineer or District's Representative for locations that have conflict with other devices or manner not suitable for installation. Avoid placing devices behind open doors.
 - 2. Align devices horizontally and vertically. Device plates shall be aligned vertically with tolerance of 1/16". All four edges of device plates shall be in contact with the wall surface.
 - 3. Mounting height as indicated on the drawings and according to ADA requirements.
 - 4. Install device plates on all outlet boxes. Provide blank plates for all empty, spare, and boxes for future use.
 - 5. Securely fasten devices into boxes and attach appropriate cover plates.
 - 6. Caulk around edges or outdoor device plates and boxes when rough wall surfaces prevent raintight seal. Use caulking materials approved by Engineer. Fireproof around opening of devices located or penetrating firerated construction assemblies.
 - 7. Fireproof around opening of devices located or penetrating firerated construction assemblies.
- B. Switches
 - 1. Where switches are indicated to be installed near doors, corner walls, etc. mount not less than 2 inches and not more than 18" from trim. Verify exact location with Architect or Engineer prior to rough-in.
 - 2. Coordinate the location of switches to insure locations at the strike side of doors.
 - 3. Furnish and install engraved legend of each switch that controls exhaust fans, motors, equipment systems, etc. not located within sight of the controlling switch.

4. Ganging of Switches - provide barriers for switches of difference phases and voltages. Otherwise switches shall be gauged in one faceplate.
- C. Receptacles
 1. Mount receptacles vertically with U-shaped ground position on bottom.
 2. Do not combine GFCI protected circuits with other circuits in the same raceway. Limit number of GFI protect circuits in any one raceway to a maximum of one (1) circuit.
- D. Identification
 1. Label all outlets and switches. Mark each wiring device where circuits and panel supply is derived from.
 2. All identification shall be legible and readable after completion of installation

3.08 INSTALLATION OF FUSES AND DISCONNECT SWITCHES

- A. Fuses shall be installed where noted on plans. Sizes are based on design data provided by equipment mfg. Listed or labeled equipment must be in accordance with instructions included in the listing or labeling. Be sure to observe maximum branch circuit fuse size labels.
- B. Disconnect switches shall be mounted on the equipment, where possible. Coordinate with mechanical contractor to ensure switches are not mounted on a removable access panel.
- C. Label each disconnect fuse with equipment tag as indicated in the single line diagram, or as directed.

3.09 ELECTRICAL EQUIPMENT GROUNDING

- A. Ground non-current carrying metal parts of electrical equipment enclosures, frames, conductor raceways or cable trays to provide a low impedance path for line-to-ground fault current and to bond all non-current carrying metal parts together. Install a ground conductor in each raceway system in addition to conductors shown. Equipment ground conductor shall be electrically and mechanically continuous from the electrical circuit source to the equipment to be grounded. Size ground conductors per NEC 250 unless larger conductors are shown on the drawings.
- B. Grounding conductors shall be identified with green insulation, except where a bare ground conductor is specified. Where green insulation is not available, on larger sizes, black insulation shall be used and suitably identified with green tape at each junction box or device enclosure.
- C. Install metal raceway couplings, fittings and terminations secure and tight to insure good ground continuity. Provide insulated grounding bushing and bonding jumper where metal raceway is not directly attached to equipment metal enclosure and at concentric knock-outs.
- D. Motors shall be connected to equipment ground conductors with a conduit grounding bushing and with a bolted solderless lug connection on the metal frame.
- E. Conduit terminating in concentric knockouts at panelboards, cabinets and gutters shall have insulated grounding bushings and bonding jumpers installed interconnecting all such conduits and the panelboard cabinet, gutter, etc.
- F. Performance:
 1. Measure the resistance to ground of each ground rod before connection to the other ground rods. The resistance shall not exceed 25 ohms.
 - a. A single electrode which does not have a resistance to ground of 25 ohms or less shall be augmented by additional electrode(s).
 2. Measure the resistance to ground of the total ground system with all connections completed. The resistance shall not exceed 2 ohms for primary services or 5 ohms for secondary services.
 3. Tests of the resistance to ground shall be made using either the three point method or the fall-of-potential method.
 4. Perform a continuity check from equipment ground bus bars and ground lugs to the ground system.

3.10 BONDING

- A. Bonding shall be provided to assure electrical continuity and the capacity to conduct safely any fault current likely to be imposed.

- B. Bonding shall be in accordance with NEC Article 250, Part V.

3.11 WORKMANSHIP

- A. Preparation, handling, and installation shall be in accordance with manufacturer's written instructions and technical data particular to the product specified and/or accepted equal except as otherwise specified. Coordinate work and cooperate with others in furnishing and placing this work. Work to reviewed shop drawings for work done by others and to field measurements as necessary to properly fit the work.
- B. Conform to the National Electrical Contractor's Association "Standard of Installation" for general installation practice.

3.12 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

END OF SECTION

SECTION 28 00 00
SECURITY GENERAL REQUIREMENTS

PART 1 - GENERAL

1.01 PROJECT INTENT

- A. The intent of this project is to provide a complete and operational intrusion alarm system and central monitoring station.
- B. Specifications and drawings provide the intent for a fully functioning system, not all materials and devices are shown. The contractor is responsible for providing system drawings, equipment, and material for a fully functioning system.
- C. The video surveillance system including video storage is existing and is to be intergrated with the new Central Monitoring Station as part of Additive Alternate #3. These systems are to be fully integrated to allow relevant video clips, both live and recorded, to be viewed when an alarms is activated by on site personnel on a 24-hour basis. Alarms and video will be available to personnel with permission via the internet. Contractor responsible for coordinating with District for location of cameras. Existing cameras are IP based on an OnSSi system.
- D. Coordination with all parties for the construction including District Security team and the District's IT department will be required.

1.02 TERMINOLOGY

- A. The project's District is referred to in this document as the District, and the respondent is referred to as the Integrator and Contractor. The term District also includes direct employees, and other District-appointed agents such as architects, engineers, or consultants. These agents may be requested by the District to represent the District in undertaking certain project tasks.

1.03 PRECEDENCE

- A. If any statement in this or any other Specification is in conflict with any provision of the General Terms and Conditions to the contract, the provision stated in the General Terms and Conditions shall take precedence. Immediately bring to District's attention any questions that result from such potential conflict which require additional interpretation and guidance.

1.04 BASIC DEFINITIONS

- A. Award of Contract, or award of contract:
 - 1. In these specifications, award of contract means both - District's Representative choosing an Integrator as the successful Qualifier, and the parties executing a contract for the work. In all cases, it is a condition of an award of contract that the Integrator agrees to use the form of contract supplied by the District's Representative.

1.05 CODES AND STANDARDS

- A. Perform the work in accordance with current editions of the following codes, rules and regulations along with codes stated on drawings:
 - 1. Appropriate state and local governmental codes
 - 2. National Electrical Code (NEC)
 - 3. California Electrical Code (CEC)
 - 4. National Fire Protection Association (NFPA), National Fire Code
 - 5. National Fire Protection Association (NFPA), Life Safety Code
 - 6. National Electrical Contractors Association (NECA), National Electrical Installation Standards
 - 7. Federal Communications Commission (FCC), Communications Act of 1934
 - 8. Code of Federal Regulations, title 47, Telecommunication
 - 9. Underwriters Laboratories, Inc. (UL)

1.06 QUALITY ASSURANCE

- A. Manufacturer Qualifications

1. Furnish only system components by manufacturers of established reputation and experience who have produced similar equipment and who are able to refer to similar installations rendering satisfactory service.
- B. Contractor Qualifications
 1. At the time of the Qualification package submittal, the qualifier shall provide evidence of:
 - a. Having installed at least 3 other systems of similar size, complexity, and general operation as the systems described in these specifications. Furnish written proof of compliance with this paragraph at time of Qualification package submittal.
 - b. Holding all legally required licenses necessary to accomplish the installation and activation of the described system at the facilities indicated. Submit copies of licenses.
 - c. Holding all legally required registrations.
 - d. Having a local office within 100 miles of the project site, staffed with factory-trained technicians with experience on systems of similar complexity and function as described in these specifications.
 - 1) The factory-trained technicians shall be fully capable of system engineering support, installation supervision, system start-up, and providing the District with training and service on both hardware and software for the systems specified.
 - 2) Submit copies of the factory-training certifications.

1.07 QUALIFICATION PACKAGE RESPONSE

- A. Qualifier's Responsibility
 1. Review the specifications and drawings (mandatory).
 2. Verify actual conditions by walking the site (mandatory).
 3. Advise District in writing of any conditions that may adversely affect the work.
 4. The drawings are accurate in terms of work scope and design for the function sought by District, but may have discrepancies in their depiction of the actual physical construction as of the date of production. Notify the District if discrepancies are found.
 5. Provide a Qualification package response that meets the intent of the drawings and specifications to the satisfaction of District.

1.08 SUBMITTALS

- A. Requirements - After Award of Contract
 1. Plan of Operations and Project Schedule:
 - a. Submit for approval a complete plan and schedule of proposed operations.
 - b. Account for the schedules of all subcontractors, transportation, storage, and all other matters affecting the work.
 - c. Revise this schedule on a weekly basis and present the updated version to District weekly.
 2. Markings:
 - a. Submit for approval samples of wire marking, panel label, zone label, terminal strip numbering, terminal strip identification styles, and typical per Detail Drawings and Specifications.
 3. Submit for approval the following.
 - a. Operations Manual
 - 1) Submit for approval a complete operations manual for all of the system products being supplied.
 - b. Test Procedures
 - 1) Submit for approval 2 copies of the test procedures to be followed in evaluating and proving the installed system(s).
 - 2) Include the test forms to be used for each system and for each component of each system.
 - 3) Include all tests required by this Specification and by the equipment manufacturers.
 - 4) Comply with the requirements stated in 3.07 - SYSTEM ACCEPTANCE REQUIREMENTS in this section.

- 5) The test procedure shall become a part of the Contract Documents.
 - 6) Specification SECTION 28 00 10 - SECURITY TESTING provides a framework for testing all aspects of the installed systems.
4. Submit for approval a training plan for operation and maintenance of the installed systems.
 - a. Design the training program to provide selected District personnel with a basic level of competence with the systems.
 - b. The trained District personnel will train other District personnel utilizing the training and the training documentation provided by the Integrator.
 - c. Comply with the requirements stated in PART 1- SYSTEM TRAINING in each respective system specification.
 - d. State all hours in terms of classroom hours.
 - e. Submit a curriculum for each subject of actual training. Account for all required hours.
 - f. In order to develop appropriate training plans and other training materials, expend 0.5 to 2.0 hours of preparation time for each actual classroom hour of training.
 - g. Submit a lesson plan for each class hour of training. Include a detailed outline of all subjects to be covered in each lesson plan. Also include a materials list of equipment, required handouts, cut sheets, etc.
 - h. Apportion the training hours to include "hands on" experience with appropriate system equipment. Identify the "hands on" time in each lesson plan.
 - i. Cover the overall system, each individual system, each subsystem, and each component. Also cover procedures for database management, normal operations, and failure modes with response procedures for each type of failure.

1.09 SUPERVISION OF WORK

- A. Supervise the work from beginning to completion and, within reason, keep the same workers and lead technicians on site throughout the duration of the project.
- B. Site Project Manager
 1. Provide a site project manager to interface with all appropriate subcontractors during the installation of the system.
 2. Maintain continuing coordination with the District via the site project manager regarding progress and any problems that may develop.
- C. Do not begin the work, before receiving District approval of the complete plan and schedule of proposed operations submitted in accordance with 1.08.A.1.a.

1.10 DATA ACCURACY

- A. Absolute accuracy of information regarding existing conditions is not guaranteed. The drawings and specifications are for the assistance and guidance of the Integrator.
- B. Exact locations, distances, elevations, etc., will be governed by actual field conditions.
- C. Obtain prior approval where variations from the Qualification package documents are required. If no exceptions are brought to the attention of the District prior to or at the time of Qualifying, Contractor is still required to perform the work as if exceptions had been noted or changes recommended, but at the cost of the Integrator. Even without recompense from the District, nothing shall excuse the Integrator from satisfactorily completing the work in the manner customarily expected from a professional contractor.

1.11 PROJECT RECORD DRAWINGS

- A. Contractor to provide:
 1. Routing of conduit and signal cables, including the cable designations assigned to each cable.
 2. Accurate location of all equipment installed under the specifications.
 3. A complete equipment list for each functional area.
 4. Complete schedules for all equipment, indicating addresses.
 5. Complete point-to-point wiring diagrams, including complete terminal strip layout and identification, and wire termination and tagging for all conductors.
 6. All drawings to be completed in AutoCAD; compatible version 2008.

1.12 WARRANTY

- A. Warrant for one full year after Notice of Completion that the work is:
 - 1. Free from defects in workmanship and material
 - 2. Free from design defects
 - 3. New, and of the kind and quality specified
 - 4. Suitable for the use intended
 - 5. Performing in the manner specified

PART 2 - PRODUCTS

2.01 WORK INCLUDED

- A. Provide all the materials listed in PART 2- PRODUCTS of the individual specification sections, on the detail drawings unless specifically excluded or modified in other portions of the contract document, and all other material and equipment necessary for providing a fully functioning system.
- B. Verify all quantities and part numbers, whether listed or not.

2.02 MATERIALS

- A. Use the following items to complete equipment, wire, and cable installation called for by the other security specification sections and detail drawings. Provide the make and model shown below when the items are needed but not called out in the specifications or the detail package drawings.
 - 1. Cable and Wire Ties
 - a. Provide plenum-rated velcro-style sized appropriately to the conditions. These are required for fiber and UTP cables and should be generally used for all cable ties.
 - 2. Cable and Wire Marking
 - a. Panduit Panther (Ls8 or LS9), Brady (Type B-321 , WMS#17-321), or approved equal, heat-shrink or permanent wrap, machine-printed Polyolefin wire markers for each cable and each conductor at every cable termination point.
 - b. Hand written tags are not acceptable.
 - 3. Tamper Resistant Screws
 - a. Tamperproof Snake Eyes, Theft-Pruf™, or approved equal type fasteners.
 - b. Provide 6 tamper-resistant screwdrivers and transfer to District prior to final acceptance testing.
 - 4. Engraved Labels
 - a. Rowmark Ultra-Matte labels, or approved equal,
 - b. Laminated impact acrylic flexible engraving material, 2-ply, matte finish, for interior and ADA exterior signage.
 - c. Permanently bond with adhesive or with screws.
 - d. Round and smooth edges.
 - e. Black with white underlayment. Font =Arial bold, 1/4" high (40 pt.).

PART 3 - EXECUTION

3.01 GENERAL INSTALLATION

- A. This contract does not involve functioning, existing systems.
- B. This project has a critical scheduling path which must be closely followed in order to meet the completion date.
 - 1. Review the proposed schedule at the Award of Contract meeting.
 - 2. Provide work force staffing according to the schedule constraints presented at that meeting.
- C. Install, make fully operational and test the system as indicated on the drawings and in the specifications.
 - 1. Where any requested information is not available from the District for Qualifying purposes, assume the worst case condition necessary to ensure complete, functional systems.
 - 2. Be responsible for interfacing with other systems under this contract.

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- a. Show the details (both logical and physical) of such interfaces on the Submittal drawings and as built drawings.
- b. Coordinate interfaces with the District's telecommunications system with the District ITSS staff.
- c. Additive Alternate #3: OnSSI Video Surveillance system.
3. Furnish and install all back-boxes, pull-boxes, connectors, supports, conduit, cable and wire necessary to provide a complete and reliable system.
 - a. Submit the exact location of all boxes, conduit and wiring runs to the District for approval prior to any installation.
4. Where required or when requested by the District, provide and terminate 120-VAC, 60-Hz power from appropriate electrical source through a junction box, to security system devices.
5. Install conduit, cable and wire parallel and square with building lines. Network cabling used for surveillance cameras and access control routers may run in common pathways with other network cabling. Non-network cabling for use in any other security system shall require its own dedicated pathway.
 - a. Do not exceed 40% conduit fill.
6. Install all equipment parallel and square to building lines.
 - a. Provide sufficient clearances to meet all applicable codes and to facilitate observation and testing.
 - b. Securely hang and/or fasten with appropriate fittings to ensure positive grounding, free of ground loops, throughout the entire system.
7. Install all network cabling in accordance with District and Industry standards.
8. Install all equipment to achieve quiet and vibration-free operation.
 - a. Adjust, repair, balance, or replace any equipment producing any noise or vibration that is objectionable to the District.
 - b. Provide additional brackets and bracing as necessary.
 - c. Provide any such additions or changes at no additional cost to the District.
 - d. There should be no increase in existing ambient noise.
9. Comply with Codes and Standards identified in Specifications and on Drawings.
 - a. Where more than one code or regulation is applicable or where specifications and codes disagree, the more stringent shall apply.
 - b. Install seismic bracing on equipment where required by local codes.
10. At the completion of work and prior to final testing, install fire stopping at all penetrations in slabs and fire walls to meet codes.
11. Install Theft-Pruf™ type fasteners for all security equipment in accessible locations.
 - a. Provide tamper-resistant screw drivers and transfer to the District prior to final acceptance testing.

3.02 WORKMANSHIP

- A. Perform the installation in a professional and workmanlike manner.
- B. Perform all preparation, handling, and installation work in accordance with the manufacturers' written instructions and technical data.
- C. Perform all work in conformance with the National Electrical Contractors Association "Standard of Installation" for general installation practice.
- D. On a daily basis, clean up all debris from work performed and deposit in appropriate containers.
 1. Stack and organize all parts, tools, and equipment when not being used
- E. At the conclusion of the installation at all work areas vacuum and clean to remove all debris and grease.

3.03 CUTTING, PAINTING, AND PATCHING

- A. Integrator shall be responsible for the repair of any surface damaged during the installation of the security systems. This shall include the repair or replacement of any damaged ceiling tiles or

ceiling grid, the patch and painting of any damaged walls and the repair or replacement of any damaged floor coverings.

- B. The contractor shall be responsible to paint any exposed conduit or backboxes below the ceiling grid line or exposed on the outside of the building. Paint shall match surrounding surfaces.

3.04 DATABASE PREPARATION, CHECKING, AND ACTIVATION

- A. Provide District's Representative with the appropriate forms necessary to organize the security systems database inputs not less than 30 days prior to scheduled central system activation.
 - 1. Clearly identify the delivery of the forms on the Project Schedule.
- B. Train District-designated personnel to ensure their understanding of database formats requirements and constraints not less than 30 days prior to scheduled central system activation.
 - 1. Clearly identify the training on the Project Schedule so that database preparations are accomplished in sufficient time to permit orderly and on time security systems activation
- C. District's Representative will be responsible for the accuracy of the database information by thoroughly checking all completed data entry forms.
- D. Ensure that all databases formatting are correct prior to security systems activation.
- E. Provide the initial database entries into the security systems prior to activation
 - 1. The databases will consist of hardware related information, i.e., doors, alarm points, software parameters for system management, alarm and access information, camera and monitor matrices relationships (Additive Alternate #3), PTZ camera pre-positioning (Additive Alternate #3), etc.
 - 2. Provide District's Representative with a printout of the final databases for review and approval prior to security systems activation.
- F. If later versions of the operating security systems or application software are made available by the manufacturers, install the software and ensure that it is fully operational at no additional cost to District over the life of the software maintenance agreement(s).
 - 1. Before installing upgrade software, ensure that existing database information is properly "backedUp".

3.05 START-UP RESPONSIBILITY

- A. Properly ground each piece of electronic equipment prior to applying power.
- B. Properly ground all shielded wire shields to the appropriate earth ground at the hub end only, not at the remote or device end.
- C. Initiate security systems operation.
 - 1. Provide competent start-up personnel on each consecutive working day until the security systems are functional and ready to start the acceptance test phase.
- D. Where appropriate, bring the security systems on-line in their basic state (i.e., alarm reporting, etc.).
 - 1. District's Representative will provide the specific database information that will allow fully integrated security systems operation.
 - 2. Request the database information from District's Representative in sufficient time to not delay the project schedule.
- E. Use a start-up sequence that incrementally brings each portion of the system on-line in a logical order that incorporates checking individual elements before proceeding to subsequent elements until the entire system is operational. The basic steps should include:
 - 1. Establishing ground planes at the security closets and hub end of the system.
 - 2. Setting up battery and power supplies at security closets and hub end of the system.
 - 3. Disconnecting power.
 - 4. Connecting the first security point, reconnecting power, and verifying operational correctness.
 - 5. Repeat steps 3 and 4 until the entire security systems are verified and operational.

- F. If any technical problems occur, and if in District's Representative judgment adequate progress is not being demonstrated resolving the problems, provide manufacturers' factory technical representatives and diagnostic equipment at no additional cost until the problems are resolved.

3.06 PREPARATION FOR ACCEPTANCE PRIOR TO SUBSTANTIAL COMPLETION (SC)

- A. If, under the scope of Services of this project, Contractor is required to remove and dispose of any existing apparatus or materials, such disposal shall be undertaken in accordance with any and all legal requirements.
- B. Label and identify all systems, equipment and devices.
- C. Have all systems, equipment, and devices in full and proper adjustment and operation.
- D. Have all equipment and materials in neat, clean and unmarred condition with parts securely attached.
- E. Replace or properly repair all broken work, including glass, raised flooring and supports, ceiling tiles and supports, walls, doors, etc. Clean-up and appropriately discard all debris.
- F. Deliver and store all extra materials at the premises as directed.
- G. Complete the test reports of each system and each system component, O&M manuals.
 - 1. Deliver to District's Representative for review and acceptance.

3.07 SYSTEM ACCEPTANCE REQUIREMENTS

- A. Before final acceptance of work, perform and/or deliver each of the following in the order stated.
 - 1. Testing
 - a. Activate all devices and verify proper operation of the security systems. Include supervisory and trouble circuit tests.
 - b. If activation of a device is impractical (e.g., a discharge test of a fire suppression system), initiate a simulated alarm or trouble by closing or opening the appropriate contact points.
 - c. Do not activate audible alarms except on a one-time, coordinated basis, to check the actual sounding devices. Coordinate closely with District.
 - d. Submit a test report for each piece of equipment to District. Include a complete listing of all security systems devices, the dates tested, by whom, the results, and dates retested (if failure occurred during any previous tests).
 - e. Successful testing of all security systems devices is required. Failure to completely test and document the tests will delay final testing and acceptance.
 - 2. As-built Drawings
 - a. After completion of all the tests listed above, and prior to the final acceptance test, Contractor shall submit the complete as-built drawings.
- B. Final Acceptance Test
 - 1. Before final acceptance testing begins, submit the following to District for approval:
 - a. Operations and maintenance manuals
 - b. Test reports
 - c. As-built drawings
 - d. Tamper-resistant screw driver
 - e. List of all IP address per devise, passwords and programming parameters
 - 2. After the manuals, test reports, and as-built drawings are approved by District, test the completed security systems in the presence of District. Demonstrate performance and compliance with security systems specifications.

END OF SECTION

SECTION 28 12 00

PHYSICAL SYSTEM INFORMATION MANAGEMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Scope of Work
- B. PSIM Requirements
- C. Hardware and Software

1.02 SUMMARY OF WORK

- A. Work includes, but is not limited to, upgrading current Bold Technologies monitoring software to Bold Technologies ManitouPSIM to provide a modular and network-enabled security control system for security management. Include engineering, supply, installation, programming, and activation.
- B. The system shall be capable of managing all security systems across as many sites as required, all from within a single, robust application and interface.
- C. The system shall be programmed to graphically display and manage the intrusion alarm system.
- D. Additive Alternate 3: Integrate the intrusion and video surveillance systems at the District's Maintenance and Operation facility and Holbrook Elementary school.
- E. The Contractor will provide all hardware and software required for a complete system as shown in drawings and specs for a Central Station located at the Maintenance and Operations facility.
- F. The system shall be capable of centrally managing a physical security infrastructure including:
 - 1. Access control
 - 2. Building management infrastructure (HVAC, etc.)
 - 3. CCTV/Video systems
 - 4. Chemical/biological detection systems
 - 5. Computer-aided dispatch systems
 - 6. Digital video recording (DVR) systems
 - 7. Elevator alarm systems
 - 8. Fire systems
 - 9. Intercom and Two-Way Voice systems
 - 10. Intrusion detection systems
 - 11. IT Systems Management Systems
 - 12. Location-based device systems (RFID, GPS devices, etc)
 - 13. Motion detection systems
 - 14. Notification Systems
 - 15. Other related systems
 - 16. Phone and PBX Systems
 - 17. Radioactivity detection systems
 - 18. Response Systems
 - 19. Video analytics systems
- G. System Description
 - 1. PHYSICAL SECURITY INFORMATION MANAGEMENT (PSIM)- The Physical Security Information Management (PSIM) system shall function as an electronic control system and shall integrate intrusion alarm monitoring, video surveillance, CCTV, digital video, ID badging, access control and database management into a single platform. A modular and network-enabled architecture shall allow maximum versatility for tailoring secure and dependable alarm monitoring solutions.

1.03 REFERENCES

- A. Reference Standards: Systems specified in this Section shall meet or exceed the requirements of the following:
 - 1. Federal Communications Commission (FCC):

2. FCC Part 15 - Radio Frequency Device
3. FCC Part 68 - Connection of Terminal Equipment to the Telephone Network
4. Underwriters Laboratories (UL):
 - a. UL294 - Access Control System Units
 - b. UL1076 - Proprietary Burglar Alarm Units and Systems
5. National Fire Protection Association (NFPA):
 - a. NFPA70 - National Electrical Code
6. Electronic Industries Alliance (EIA):
 - a. RS232C - Interface between Data Terminal Equipment and Data Communications Equipment Employing Serial Binary Data Interchange
 - b. RS485 - Electrical Characteristics of Generators and Receivers for use in Balanced Digital Multi-Point Systems
7. Federal Information Processing Standards (FIPS):
 - a. Advanced Encryption Standard (AES) (FIPS 197)
8. Meet UL 1981 certification requirements. These requirements cover computerized central station automation systems intended for use in central station, proprietary, remote and subsidiary burglar and fire-alarm applications. The solution shall be used for the purpose of automating the signal-handling and processing of change-of-status signals generated by receivers. In case of an automation system failure, the monitoring station would rely on the receiving equipment for the reception and recording change-of-status signals and the provision of audible and visual signals identifying the source and type of signal requiring operator attention. These systems are intended to be installed in accordance with
 - a. The National Electrical Code, NFPA 70
 - b. The National Fire Alarm Code, NFPA 72
 - c. The Standard for Central-Station Alarm Services, UL 827

1.04 SUBMITTALS

- A. Manufacturer's Product Data: Submit manufacturer's data sheets indicating systems and components proposed for use.
- B. Shop Drawings: Submit complete shop drawings indicating system components, wiring diagrams, and device list prior to installation.
- C. System Drawings: Submit drawings of all view panes as they will appear on screens and flow charts of the associated view panes linking to hardware and software functionality.
- D. Record Drawings: During construction maintain record drawings indicating location of equipment and wiring. Submit an electronic version of record drawings for the PSIM system not later than Substantial Completion of the project.
- E. Operation and Maintenance Data: Submit manufacturer's operation and maintenance data, customized to the PSIM system installed. Include system and operator manuals.
- F. Maintenance Service Agreement: Submit copy of the manufacturer's maintenance service agreement, including cost and services and updates for a two year period for District's.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in manufacturer's labeled packages. Store and handle in accordance with manufacturer's requirements.

1.06 WARRANTY

- A. Manufacturer's Warranty: Submit manufacturer's standard warranty for all components of PSIM system.
- B. Include 2 year service agreement for entire PSIM software package.

PART 2 PRODUCTS

2.01 PHYSICAL SECURITY INFORMATION MANAGEMENT (PSIM):

- A. Manufacturer: Bold Technologies- ManitouPSIM

- B. Technical Performance Requirements- The solution shall meet the following technical performance requirements:
1. Receive and process up to ten (10) million signals (115 signals per second continuous) and three (3) million alarms with associated camera data and operator interaction, all within 24-hour interval
 2. Support at least three hundred (300) concurrent client logons per server
 3. Access content that has the ability to
 - a. Centrally store up to ten million customers/sites (10,000,000) with infrastructure and building plans
 - b. Display a pre-configured map to an operator within one (1) second of his or her request
 - c. Display on-screen instructions within one (1) second of the operator retrieving/requesting the event-alarm
 4. Transact data that has the ability to
 - a. Store central, online historical events of at least ten million (10,000,000) per month
 - b. Process up to three million (3,000,000) alarms in a twenty-four (24) hour period; each event shall be available for an operator to handle
 - c. Operator reception of an event-alarm requiring handling within one (1) second of the system's reception of it
- C. PSIM Solution Requirements:
1. Control, via bidirectional communication, the managed systems and associated information
 2. Display entire monitored-area including pertinent Graphical User Interfaces (GUIs) and large-scale video display(s); to also include multiple sites and geographic locations
 3. Operate with hierarchical structure including the ability to have sites organized into 'clusters' (a clustering of customers and or sites into a singular on-screen space). Alarm programming, call Lists, action patterns, workflow, comments, reporting and schedules should be definable at a control-center, cluster and customer level.
 4. Receive events and signals from various systems including, but not limited to, fire, intelligent perimeter, intrusion systems, access control, video and any other user-definable event; all to be manageable from within the solution
 5. Interface with alarm receivers directly (as opposed to the panel) to enable support for the maximum number of alarm panels; to support alarm receiver types including (but not be limited to) Ademco 685, AES7701, BASE10, BOLDXML, Bosch D6100, BTDirector, CP220, DMP, Emizon, ISI, ITI, Keltron, Surgard MLR2, MLR2000, System III, System II, System I, MLR2E, Morse, OH2000, QuickAlert, Radionics 6500, Radionics 6600, Redcare, Safeguard, ScanCom, Silent Knight 9000, 9800, Varitech, Westec.
 6. Connect to alarm receivers via Serial, TCP/IP communication
 7. Support, at a minimum, automation formats including Contact ID, SIA 1, SIA 2, SIA3, SIAX, 4/2, 4/1, 3/1, Acron, Ademco High Speed, DMP, FBI, ISI, ITI, Radionics Modem 2e, 2e (SIA), Morse, SESCOA, Surgard Native
 8. Contain alarm programming capability by Schedule, Priority, Event Type, Area, Zone, Sensor, Site State (open/closed), Threat Level, or if On-Test
 9. Handle incoming signals during localized disasters (e.g., storms, blackouts, earthquakes); to be immediately implemented by pre-determined disaster plans, at a zip/postal code level
 10. Communicate with 3rd-party video and video analytics systems, specifically OnSSI: NetDVMS and Ocularis.
 11. Provision live system status and data across all operator workstations
 12. Record activity transactions from all monitored-areas and alarm input/output points; able to provide visual and audible alarms upon status change allowing for interpretation and response across all operator workstations
 13. Log and make available all alarm and operator activity/history; alarm and signal history, per customer, to be accessible including all activity associated with any alarm-handling; to maintain a separate history of activity for each operator using the system

14. Utilize advanced action pattern and dynamic workflow 'engine'. When deployed, the business policies and procedures related to workflow shall be programmed into the solution. Upon receipt of an event, and based upon this prior action pattern and workflow programming, the solution shall graphically generate the appropriate set of actions and workflow. This will lead the responding-operator through the various and appropriate steps all the way to event-resolution. The solution should be advanced enough to remove operator decision wherever possible; yet flexible enough to allow handlers full-control over a situation.
 15. Display events from subsystems, from within the solution, based on predefined policies and business logic
 16. Display events, including all security-related information, to the operator allowing interpretation of a situation
 17. Automatically handle low-priority alarms or alarms in a disaster situation, yielding human operator focus for high(er) priority alarms
 18. Send operator actions including Outbound calls, Email, SMS, Outbound IVR, Outbound commands to devices, dispatching with necessary information, report printing, etc.
 19. Display the GUI in an operator's native or preferred language; able to feed alarms from accounts of a specific language to operators [belonging to that language group/locale]
 20. Detailed Product Requirements
- D. Alarm Handling:
1. Alarm Queue- The solution should have the following alarm queue management capabilities:
 - a. Centrally-manage a global incident queue that is able to receive, appropriately categorize and prioritize all incoming Incidents and alarms
 - b. Customize and filter incident-queue views. The incident queue should be able to display alarms in a color-coded fashion by alarm or age of event--e.g., red would equal oldest; yellow next oldest; white, latest
 - c. Segment accounts by monitoring-group. A monitoring group can be applied to a physical workstation. Monitoring groups can be applied at the cluster, customer, or receiver-line level. The default monitoring group shall be able to see all other monitoring groups, whereas other monitoring groups would only see themselves.
 - d. Create audible alerts indicating unhandled alarm(s)/incident(s)
 - e. Display multiple alarms simultaneously; have ability to limit the number of alarms any one operator can handle
 2. Action Patterns and Workflow
 - a. An action pattern is an ordered series of commands that require an operator to perform certain tasks including the following:
 - 1) Call a contact
 - 2) View video
 - 3) Perform door-opening
 - 4) Send Email or SMS messages
 - 5) Read comments
 - 6) Escalate
 - b. All commands should typically be completed with as little operator decision-making as possible--all the way through action pattern completion.
 - c. Workflow is a specific action pattern command that allows the operator to be guided through a process, collect information and make decisions along the way. Workflow can allow multiple paths of a given event to be followed to completion. Workflow can also give access to other sub-action patterns for specific tasks. The solution shall have the following specific action pattern and workflow capabilities:
 - 1) Control business policies for alarm/incident response
 - 2) Provide discernable workflow and action pattern information to a virtual operator, allowing automated alarm-handling for specific events
 - 3) Organize site(s) into multiple systems via event monitoring, fire monitoring, access control, et al

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- 4) Incorporate multiple transmitters, areas, zones, devices and users (e.g., alarm-panel user); have ability to segregate area and zones into sub-accounts
 - 5) Create customizable event-descriptions to match customer description including the event source, or any other predefined event description
 - 6) Customize event priority based on type of event generated (from alarm subsystem)
 - 7) Assign specific actions pattern and/or business policy for each event; assignable using a hierarchy starting with the most general policy containing
 - (a) Global event category level
 - (b) Global event level
 - (c) Site-cluster level by event
 - (d) Transmitter-type level by event, area, zone
 - (e) Site-level by event, area, zone
 - (f) Correlate alarm data and display the data in live manner, for each event and associated rule. Examples of subsystem data shall include the following: live or recorded video, door activity and commands, operator response instructions, map data, badge images, etc.
 - (g) Display real-time information as events are generated
 - (h) Create and assign action patterns and procedures to specific areas, zones and sensors
 - (i) Create and assign action patterns and procedures based on
 - (1) Available real-time video
 - (2) Decisions as per time of day
 - (3) Site status for open or closed state
 - (4) Severity of situation
 - (5) Location of situation
 - (6) Level of security threat
 - (7) Predefined schedule
3. Defined Response Process- As part of the defined response process the solution should have the following capabilities:
- a. Generate or escalate a current incident, to an alternate one
 - b. Generate a new alarm based on random or periodically-scheduled activity
 - c. Generate an outbound call
 - d. Send Email messages
 - e. Send SMS messages
 - f. Initiate automated, outbound IVR calls
 - g. Initiate action on remote system (e.g. camera commands, open doors, etc.)
 - h. Dispatch appropriate authority for a mobile alarm by interfacing with a PSAP database
 - i. Automatically dispatch alarm information to a PSAP 911 center using the INLETS network
 - j. Generate reports
 - k. Send automated report(s) to pre-established Email address or list
 - l. Interpret whether current event-location is within a predefined geographic area or boundary
 - m. Generate alarm or event simulation, including the ordered steps of a process/ procedure, prior to deployment of procedure/policy in production environment
 - n. Initiate door-locking for a series of doors, as defined by reverse channel commands
 - o. Initiate door-opening for a series of doors, as defined by reverse channel commands
 - p. Initiate momentary door-opening for a series of doors as defined by reverse channel commands
 - q. Support action patterns/workflow versioning so that changing action patterns does not change action patterns that are being processed
 - r. Improve operator efficiency through ability to suppress duplicate events based on area/zone affected, or via event-code and action pattern
 - s. Handle run-away systems and generate run-away alarms

- t. Automate any escalation policy/procedures to different sites, areas, locations, etc
 - u. Automate escalation alarms based on inactivity, as per previously defined time period
 - v. Monitor open and close schedules for sites and generate an alarm if a given site does not open or close; closes or opens outside of a schedule; if the person opening does not have permission to open, etc.
 - w. Allow open-once schedules (e.g., cleaning-crews etc.). Once open, a user should have a specific time to close before an alarm is generated.
 - x. Monitor late-to type events such as late-to test on a transmitter, late-to check-in for executive protection, lone-worker, guard schedules, late-to-restore and restore overdue for systems in alarm
 - y. Map panel-user numbers to real names; able to apply access permissions
- E. Video Handling- The solution should provide a video handling system that has the following capabilities:
- 1. Automatically display recorded video "just before" the event was triggered
 - 2. View live and recorded video data from any monitor connected to a workstation/ client
 - 3. Allow for standard video playback control of video: play, pause, stop, rewind, fast-forward and display current (live) video
 - 4. View multiple video panes
 - 5. Resize and move video windows, as needed, including on-the-fly fashion
 - 6. Move video to a single monitor
 - 7. Move video to multiple monitors or "video wall"
 - 8. Export video to a file that is definable by time and duration
 - 9. Stream video including event-based video
 - 10. Control PTZ cameras including:
 - a. In-picture click-ability of video pane enabling PTZ movement
 - b. Ability to provide a standard set of controls regardless of manufacturer
 - c. Ability to create presets
 - 11. Create and save report templates for later use
 - 12. Create multiple report formats including pdf, jpeg, html, txt, and mht
 - 13. Incorporate a video matrix containing
 - a. Access to live or recorded video
 - b. Display capability in window format 1x1, 2x2, 3x3, 4x4 or able to choose from a variety of pre-defined window formats showing large and small panes
 - c. Operator-specification of the video windows that will display
 - d. Per-user customization of matrix
 - e. Movability of video panes next to one-another
 - f. Interchangeability of video panes
 - g. Transferability of video from one operator to another (i.e., workstation)
 - 14. Define video sequences allowing multiple cameras to be displayed simultaneously or in a certain order
 - 15. Display ad-hoc and multiple other cameras via single-click operation
 - 16. Render/draw video routes on plans and then assign video sequences to the plans as needed
- F. Plan Display- The solution shall have the following plan display capabilities:
- 1. Display plans--including GIS information--with access to the control sector, alarm area, zone, sensor and cameras. This shall include live, dynamic and icon-based status of all graphical alarm points, rendered on-top of the graphical map.
 - 2. Allow definable field-of-view for any camera. When a user moves his or her cursor to a point on the map, all cameras covering that point should be shown.
 - 3. Connect/link to multiple sites with hierarchical view of the customer. Alarm status should cascade-up through tree structure so an operator can easily see if a site or sub-site is in-alarm.
 - 4. Allow operator navigation of maps via simple mouse-click operation utilizing map hyper-linking

5. Display open or close status for sites/areas in intelligible way; utilize color-coding (e.g., yellow = open, blue = closed)
 6. Graphically-display summary 'outlines' of sites/areas
 7. Display GIS-monitored assets and devices within the calibrated-plan. If not within the calibrated-plan the GPS devices should be displayed on a separate map display, using Microsoft's MapPoint (including a CD-ROM version for dark sites), Google Maps or Bing Maps.
 8. Toggle between maps via single-click mouse functionality (utilizing map hyper-linking)
- G. Navigation- The solution shall have the following navigational display capabilities:
1. Display in tree-structure (hierarchical list) depicting security customer/site/areas-zone
 2. Provide clickable, list-based access to last-edited customer or the last customer in-alarm (in easy-to-use fashion)
 3. Provide drill-ability through security zones via a map interface or hierarchical structure
 4. Visually indicate priority of sites/areas including sites/areas that are in-alarms first, followed by the open/close state of the site/area (if required). Clicking on these areas will enable customer or area navigation.
- H. Auditing - The solution shall have the following auditing capabilities:
1. Log and store all activities related to events and alarms including
 - a. Alarm generation
 - b. Viewing of alarm by operator
 - c. Alarm acknowledgement (whether closed or deleted)
 - d. Any actions taken
 - e. Any viewed-video
 2. Display all activities while alarm is open
 3. Display all activities once alarm is acknowledged or closed
 4. Display all activities on monitor and/or printed report
 5. Add an alarm cause/resolution to an alarm/incident after the alarm has been closed
 6. Add and export alarm reports in various formats including pdf, txt or rtf
- I. Detail Audit Trails- The solution have the following audit trail capabilities:
1. Program tables by month or day, eliminating oversized tables (this allows data to be purged or easily backed-up without placing a transactional burden on the database)
 2. Maintain history of all customer/site, cluster, branch, agency, authority and global key-holder changes; history to also contain values before and after the change.
 3. Display actions, comments and alarm handling process in the customer/site activity
 4. Store all alarms/signals in a customer/site activity log
 5. Store raw alarm signaling data in a raw-data activity log
 6. Store operator activity in an operator activity history log
 7. Store all system application debug information in a system activity log
- J. Bi-directional Communications- The solution shall have the following bidirectional communication capabilities:
1. Receive and transmit data/information and events to and from all able devices
 2. Remote-control all devices, to their full capability
 3. Communicate with 3rd-party applications, using the protocols/methods including
 - a. ODBC compliant databases
 - b. via SMS
 - c. via Email
 - d. Detailed Product Requirements
 - e. Bidirectional Communications
 - f. via FTP
 - g. via XML
 4. Control subsystems including access control; to be used for overriding allowed access, lock-downs, et al

5. Directly communicate with 2-way panels for medical emergency, elevator entrapment or other use; pass keep-alive information to then deliver the call to the operator handling the incident/alarm
 6. Initiate calls to intercom, Fire PVA, cellular and VoIP phone systems, for an operator or by an IVR application
 7. Communicate with remote cameras and video sub-systems for PTZ control and to initiate record functions etc.
 8. Control future equipment/devices via a generic reverse channel protocol
- K. General Reporting
1. The solution shall have the following general alarm reporting capabilities:
 2. Generate reports through on-screen display, Email (as attachment), and hard-copy printing
 3. Select specific items included/excluded in report at time of report generation
 4. Schedule reports by date, time and recurring frequency
 5. Display filterable queue of reports being generated
 6. Export alarm reports in multiple formats, including html, mht, pdf, rtf and txt
 7. Limit control on size of reports generated
 8. Report and filter based on
 - a. Date and Time
 - b. Customer/Site
 - c. Cluster
 - d. Sensor(s)
 - e. Alarm Type
 - f. Alarm Source
 - g. Alarm Priority
 9. Create and save report templates for later use
- L. Alarm & Incident Reporting- The solution's alarm and incident reporting capabilities shall be able to perform the following:
1. Generate alarm/incident reports in real-time, including during alarm/incident handling
 2. Capture audit trail of alarm activities
 3. Detail alarm priority level including date, time, description, location of incident(s)
 4. Generating standard reports for
 - a. Alarm/Incident cause summary
 - b. Alarm Detail
 - c. Alarm resolution
 - d. Customer/Site activity
 - e. Handled Signals by Operator
 - f. Unrestored signals
 - g. User History
- M. Maintenance Reporting- The solution shall be able to report on the following maintenance items:
1. Customer/Site adds and deletions
 2. Customers/Site by transmitter type
 3. Maintenance issues
 4. Permit exceptions
 5. Permit expiration
 6. Where a contact is used
- N. Master File Reporting- The solution shall be able to compile master file reports for the following items:
1. Event codes
 2. Detailed Product Requirements
 3. Master File Reporting
 4. Agencies
 5. Customers
 6. Clusters

7. Control center
 8. All other solution entities
- O. System Reporting- The solution shall be able to report on the following system items:
1. Customer/Site count
 2. Customer/Site services
 3. Customer status change
 4. False-alarm summary
 5. Operator timecards
 6. Out-of-Service
 7. Raw-data
 8. Receiver-line loading
 9. System-connection status
 10. System Log
 11. Transmitter-count by receiver
 12. Transmitter-count by transmitter-type
 13. Unused transmitters
 14. User statistics
- P. Web Access- The solution shall be able to provide web-access to users including security managers, vendors and customers, all of whom require security-controlled access [to the system]. This web-based application shall have the following capabilities:
1. View events and alarms including access control, video, GPS, intrusion, fire, operator actions
 2. Control system-access permissions at a field-level
 3. Provide user-level access to view, add, edit, and delete information (depending upon the pre-defined security access)
 4. Run reports for the various parts of the system (depending on the pre-defined security access)
 5. Display a dashboard of alarms and signals
 6. View statistics including alarms by type, for the prior twenty-four (24) hours, etc.
- Q. Media Gateway - The solution should provide a "media gateway" that has the following capabilities:
1. Provide In- and Outbound IVR
 2. Provide SAPI 5.1-compatible text-to-speech engine and support voices in multiple languages
 3. Thoroughly configure menus and scripts utilizing a scripting language
 4. Integrate with SMS-based IVR products, allowing the system to send out/receive SMS messages and receive controlling responses; all scripts developed for the Audio IVR to be useable for SMS communication
 5. Operate with a 2-way voice interface that can
 - a. Connect to all 2-way panels, 2-way receivers
 - b. Can control routing of audio to operator
 - c. Maintain all keep-alive messages to panel as well as any panel-specific control sequences--e.g., talk, listen, disconnect, etc.
 6. Access to an "Instance Connect" interface allowing any incoming phone call from any phone or device to be converted into an alarm signal. The signal can use the Caller ID, ANI, DNIS or Caller ID Name values as a transmitter identifier. When the alarm is picked up by an operator the system should automatically transfer the call to the operator.
 7. Access to an interface that allows audio calls to be 1-way and recorded. The solution should automatically create an alarm or signal (log-only) based on the Caller ID or DNIS of the call. Audio clips should be delivered to the operator in pre-defined clip lengths. Clips should be stored into activity for future reference.
 8. Connect to a PBX Assistant that can interface with all commercially-available PBX solutions. The solution should provide Automatic Call Distribution capabilities and allow the

- contacts and/or guards calling into the control center to be automatically connected to an operator dealing with that particular and relevant event.
9. Configure an SMS receiver to allow any text messages to be converted into alarms, signals; to generate GPS based signals as well as regular alarms
 10. Connect to a software Channel Bank that allows T1 lines to split into analog channels
 11. Access receiving line-test options. The line-test module should call the receiver on a pre-determined schedule and pass a Contact ID or other industry standard signal. Failure to pass the signal should cause an alarm to be raised within the solution
- R. SDK & API- The solution shall provide a secure API that allows 3rd-party applications to interface securely and safely to the solution without compromising the database integrity. The solution shall have further capability as follows:
1. Provision an API that uses a web service with a SOAP interface. The interface shall contain all standard solution features including on-test and customer editing; will not expose any alarm-handling features.
 2. Provision a standard way of sending signals into the system using a generic XML protocol
 3. Support the ability to send binary information such as video, pictures and audio into the solution
 4. Provide support for a generic XML protocol for such things as SIA, Contact ID
 5. Provide a generic xml protocol for reverse channel commands (i.e., commands sent to devices)
 6. Support standard alarm ACKS and NAKS
 7. Provide a mechanism for new logical functions to be added to the media gateway using Microsoft's Extensibility Framework
- S. Permission Administration- The solution shall have the following permission and administration capabilities, with configurable-restrictions therein, as follows:
1. System operators (user-level) to perform all functions typical to that of an operator but will lack access to system administration function and/or the Supervisor Workstation
 2. System administrators to perform all functions as needed including that of operators and administrators (e.g., creation, modification and visibility of entire solution system)
 3. Trainee (i.e., a limited type of operator) to only handle alarms of a certain priority range
- T. Dashboard- The solution shall have a dashboard application containing the following items:
1. Alarm queue
 2. Weather map of the current geographical area
 3. Multiple time-zone display
 4. Central station count
 5. Status of alarms handled by system vs. user
 6. Workstation usage
 7. Database resources
- U. System Operations- The solution shall have the following system operations capabilities:
1. Unattended operation
 2. Solution server function regardless of user logon(s)
 3. Easy-to-operate and configure system including administration of database; basic database operations not to require prior database administrator skills
- V. User Account Capability- The solution shall have the following user account capabilities:
1. Able to support multiple and simultaneous user access
 2. Able to view and manage alarms in specific or defined areas, by single or multiple users
 3. Update view of changes made by one user, to all users
 4. Assign user permissions, group permissions and security profiles
 5. Apply security policy to pre-defined groups including
 - a. Operators - basic, operational functionality within the operator workstation
 - b. Power Users - operational functionality within the operator workstation, as well as some administration capability

- c. Administrators - operational functionality within the operator workstation, as well as full administration capability; able to manage user permissions for all users and groups as needed
 6. Create new users with logon credentials (name and password); apply proper assignment of users to appropriate security groups
 7. Grant operator(s) access to statistics for the operators' current login session including
 - a. Total incidents/alarms handled
 - b. Incidents/alarms handled per hour
 - c. Incidents per priority
 - d. Customers edited, added, deleted
 - e. Customers put on test
 8. Display specific security zones and maps
 9. Display alarms in specific security zones and locations
 10. Display and configure sensors in specific security zones and locations
 11. Configure maps, policies, permissions, sensors and users
- W. Architecture- The solution shall have the following architecture and design:
 1. Support high-performance N-tier client-server applications
 2. Provide progressive architecture allowing for flexible and scalable future implementation via customization, live configuration, software upgrading and software license control
 3. Run on single or multiple-processor machines; servers shall be able to take full-use of the multiple-processor capability
 4. Provide flexibility to run in a distributed or non-distributed architecture
 5. Allow application server and signal handling redundancy whereby a failure on one application server/ signal handler will not cause the entire solution to fail
 6. Allow management from a central point regardless of amount or location of the devices it manages. Management shall be performed from a system server with optional accessibility from a networked workstation (client).
 7. Process all inbound signaling through a separate Front End Processor (FEP). The FEP shall host device drivers that are separate from the core server processes-application. This shall provide stability from 3rd party SDKs so the SDKs do not affect the core application-processes. It shall be possible to stop individual device drivers, upgrade them as needed and then started, without affecting other running device drivers.
 8. Support unlimited types of systems with which the solution can integrate at present or future
 9. Display and manage all integrated-systems, centrally
 10. Access the system from any client application
 11. Support all needed-devices for the solution including
 - a. Intrusion systems (UL and non-UL)
 - b. Fire detection (UL and non-UL)
 - c. Personal attack
 - d. 2-way voice
 - e. Video Systems
 - f. Access Control Systems
 - g. GPS devices
 - h. Intercom
 - i. Any other events/messages that can be reported via an alarm receiver
- X. Future Requirements
 1. The solution shall be continually developed with feature and functionality enhancement, particularly related to market demand, industry (including technological) advancement and development. The solution provider shall have a steering group consisting of end-users of the solution that influences the future development of the solution.
 2. The solution provider shall organize and host an annual user-group meeting. This annual meeting shall provide, among other things, the opportunity for the users of the solution to

gain training, interact with other users and learn about current and future operations/direction of the company.

- Y. Documentation- The solution shall contain the following documentation:
 - 1. Operator workstation guide
 - 2. Supervisor workstation guide
 - 3. Web user guide
 - 4. Media gateway guide
 - 5. Fail-over documentation
 - 6. How-to and Quick-reference guides

2.02 HARDWARE AND SOFTWARE:

- A. These are the minimum system specifications required to be installed.
- B. Database/Application Server - 2 Servers
 - 1. Manufacturer: Hewlett Packard.
 - 2. Intel Quad Core processor, 2 GHz or higher
 - 3. 16 GB RAM System Drive (C:) - (2) 146 GB SAS with RAID 1
 - 4. Data Drive (D:) - (4) 300 GB SAS with RAID 10
 - 5. DVD RW
 - 6. 100/1000 LAN NIC
 - 7. Backup Device
 - 8. Server Operating System-
 - a. Microsoft Windows Server 20012 with Proper CALs (x64)
 - 9. Server Relational Database-
 - a. Microsoft SQL Server 2012 Standard Edition with Proper CALs (x64)
- C. MediaGateway/UniversalConnector/BoldNet/Dashboard - 2 Servers
 - 1. Manufacturer: Hewlett Packard.
 - 2. Intel Quad Core processor, 2 GHz or higher
 - 3. 32 GB RAM System Drive (C:) - (2) 300 GB SAS with RAID 1
 - 4. Data Drive (D:) - (4) 300 GB SAS with RAID 10
 - 5. DVD RW
 - 6. Sound Card with Speakers
 - 7. 100/1000 LAN NIC
 - 8. Backup Device
 - 9. Server Operating System-
 - a. Microsoft Windows Server 2012 Web Edition with Proper CALs (x64)
 - 10. Server Relational Database-
 - a. Microsoft SQL Server 2012 Standard Edition with Proper CALs (x64)
- D. Workstation
 - 1. Manufacturer: Hewlett Packard.
 - 2. Intel Quad Core
 - 3. 8GB RAM
 - 4. 160 GB SATA HDD
 - 5. DVD/NIC
 - 6. Sound card with speakers
 - 7. 1G Video Graphics Card with dual output
 - 8. Microsoft Windows 7 (x64) Professional, Enterprise, or Ultimate
- E. Monitor
 - 1. (2) 27" Monitors with minimum resolution of 1920x1080 for user station.
 - 2. (1) 15" Monitor for Server Rack.
- F. Printer
 - 1. Color Laser Jet; 15ppm; 600dpi
- G. Serial Concentrator

1. Digi PortServer TS
- H. Server Rack
 1. Full height, floor mounted
 2. Sized sufficiently for growth, min 20u space.
 3. 2 sided access.
- I. UPS
 1. Rack mounted
 2. Provide 4 hour back-up for servers, workstation, and intrusion alarm receivers (see Section 28 16 00).
 3. Provide status monitoring on server with alarm notification.
- J. Other hardware:
 1. (2) Mouse
 2. (2) Keyboard
 3. KVM switch
 - a. Single Mouse and keyboard to be installed for control of all systems at user station.
 - b. Single Mouse and keyboard to be installed for control of all systems at server rack.
 4. All necessary cables to connect required hardware

PART 3 EXECUTION

3.01 3.2 INSTALLATION

- A. Install PSIM system
- B. Additive Alternate 3: Intrusion alarm and video surveillance systems shall be intergrated per manufactures instructions.
- C. System shall be programmed utilizing all features of the installed system as described in the Product Requirements such as but not excluding:
 1. Alarm Handling
 - a. Coordinate with District for Action Patterns and Defined Response Processes.
 - b. Video Handling (Additive Alternate 3)
 - 1) Create preset video panes
 - c. Plan Display, including
 - 1) District Map showing all sites
 - 2) Site Maps of all sites
 - 3) Floor Plans of all sites
 - 4) Location of all intrusion devices
 - 5) Location of all cameras.
 - d. Navigation
 - e. Auditing
 - f. Detail Audit Trails
 - g. Bi-Directional communication
 - 1) Input alarm responding District personnel email and contact information for email and SMS
 - 2) Input other personnel as indicated by District
 - h. General Reporting
 - i. Alarm & Incident Reporting
 - j. Maintenance Reporting
 - k. Master File Reporting
 - l. System Reporting
 - m. Web Access
 - n. Media Gateway
 - o. SDK & API
 - p. Permission Administration
 - 1) To be coordinated and set-up with the District Central Station Staff Supervisor
 - q. Dashboard

2. Create user accounts for various users as coordinated with the District.
3. Hardware:
 - a. Install all hardware per manufacture's recommendations in server rack.
 - b. All cables to be dressed and managed in an orderly fashion using Velcro ties.
 - c. All components and cabling to be clearly labeled with machine tape.

3.02 FIELD TESTING AND CERTIFICATION

- A. Testing: The PSIM shall be tested in accordance with the following:
 1. Conduct a complete inspection and test of all installed access control and security monitoring equipment. This includes testing and verifying connection to equipment .
 2. Provide staff to test all devices and all operational features of the PSIM system for witness by the District's representative and authorities having jurisdiction as applicable.
 3. Correct deficiencies until satisfactory results are obtained.
 4. Submit written copies of test results.

3.03 DISTRICT PERSONNEL TRAINING

- A. On Site Operator training: instruct operating staff in proper operation, including hands-on training not less than 30 days prior to scheduled central system activation.
- B. Minimum of (4) four days, (8) eight man-hours, a total of 32 man-hours, covering the operations for each system installed.

3.04 TRAINING SESSIONS SHALL BE PROVIDED TO SUPERVISORS, STAFF UTILIZING SYSTEMS AND EQUIPMENT PROVIDED UNDER THIS SECTION, MAINTENACE PERSONNEL AND ANY OTHER PERSON DESIGNATED BY THE DISTRICT. SECURITY CONTRACTOR SHOULD PREPARE TRAINING FOR UP TO TEN (10) PERSONNEL.

3.05 REFRESHER TRAINING: PROVIDE A 90-DAY REFRESHER TRAINING SESSION TO OPERATORS AND ADMINISTRATORS.

- A. Minimum of four (6) hours of training for the District-designated Operator and/or Administrator.
- B. Training shall cover summaries of all operator and administrator training topics and shall include greater detail on subject areas or operations not yet mastered by operators or administrators.

END OF SECTION

**SECTION 28 16 00
INTRUSION DETECTION**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Alarm Security Panel.
- B. Initiating Devices.
- C. Peripheral Devices.
- D. Receiver.

1.02 REFERENCE STANDARDS

- A. NFPA 70 - National Electrical Code; National Fire Protection Association; 2008.
- B. NFPA 72 - National Fire Alarm Code and Signaling Code; National Fire Protection Association; 2010.

1.03 SUMMARY OF WORK

- A. Materials, equipment fabrication, installation, and tests in conformity with applicable Codes and authorities having jurisdiction for the following:
 - 1. Provide a complete Intrusion Alarm System with devices at locations as shown on the drawings.
 - 2. Complete system is defined as all, cables, motion detectors, wire guards, door contacts, key pads, central control unit, RJ31X phone jacks, sirens, batteries, backboxes, conduit, conduit stubs, patching, coring, fire wall patching, connections to phone lines, connections to data line, beam detectors/reflectors etc., needed to achieve a complete and functional system. Also included are all required power supplies, battery backup, power filtering, mounts, housings, and any interfaces to equipment furnished by others.
 - 3. Provide installation, testing, adjustment, and programming for all equipment.
 - 4. Program system integration with campus central monitoring system.
 - 5. Provide written documentation and instructions for system as installed.
 - 6. Provide training to the District in the operation, adjustment, servicing, and repair of this system.
 - 7. System to follow specifications and Security Intrusion Detection System District Standards.

1.04 SUBMITTALS

- A. Submittal requirements.
 - 1. Submit dimensioned elevation details of security panel and power supplies. The Contractor is responsible for the actual location of the security panel and power supply in the existing electrical room. Complete installation shop drawings, including system wiring diagrams, floor plans, and point-to-point wiring diagrams showing all conductors and terminations for all systems. Provide details of how equipment cabinets are to be attached to walls. Shop drawings are to be in CAD. Typical or partial diagram or point-to-points shall not be accepted.
 - 2. Manufacturer's names, model numbers, and catalog references for all equipment supplies.
 - 3. A complete listing of all system input and output points, and a sequence of operations for all functions of each system.
 - 4. Special coordination is required with the District regarding programming requirements. Meet with the District's representatives and submit proposed labels for all input and output points for District review and comment. Submit programming information in spreadsheet format, both printed and in electronic format file
 - 5. Provide exact samples of device labels as described in Section 3.1.E.
 - 6. A complete Bill of Materials referencing materials to specification sections.
 - 7. Battery calculations for all panels and remote power supplies.
 - 8. Service information, including the address and telephone number of the nearest service representative.

9. Provide a complete training syllabus to be used at end of project.
10. Submittals must be complete. Incomplete submittals may be rejected at the discretion of the District and/or Engineer.
11. Submittals are due within 30 days upon Notice of Award.

1.05 QUALITY ASSURANCE/WARRANTY

- A. Conform to requirements of NFPA 70.
- B. The Contractor shall warrant all materials, equipment, and workmanship to be free of defective materials, erroneous or missing programming, and faulty workmanship for one year from written notification of acceptance by District. If repairs are necessary during the warranty period, the Contractor shall furnish all parts and labor to restore the system to normal operation at no cost to the District.
- C. The Contractor shall provide, upon notification of a problem, a qualified field service technician to correct the problem within 24 hours of notification. The Contractor shall provide loaner equipment if unable to repair faulty equipment within 48 hours of notification. The loaner equipment shall be operational within 48 hours of the original notification of a problem.
- D. Thirty days prior to expiration of warranty, the Contractor shall retest all systems and submit a test report of finding to the District's Representative. All deficient items covered by warranty shall be corrected immediately. Warranty remains in effect until 100% of defective items are corrected by the Contractor.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. System Specifications
 1. Manufacturer's catalog and system numbers of equipment listed in this specification indicate type, quality, and functions of the equipment required, and represent the minimum acceptable standards. Provide all compatible parts for the submitted system. The Intrusion Alarm system shall be Bosch D9412GV4-C, or approved equal.
- B. Receiver
 1. Receivers shall be Bosch D6100, or approved equal, mounted at District's Main Monitoring Station.
 2. Provide secondary receiver as back-up with A/B switching.
 3. Provide all required rack mounting hardware and wiring equipment.
 4. Provide and install receiver software on server. Refer to Section 28 12 00.
- C. Alarm Security Panel
 1. Bosch D9412GV4-C, or approved equal.
 - a. Minimum 246 zone capability.
 - b. Minimum 32 partitions.
 2. Accessories:
 - a. Bosch D8103 Enclosure, or approved equal.
 - 1) All District panel locks to have same key.
 - b. Tamper switch
 - c. Bosch B426 Ethernet Module
 - d. Bosch D1640 Transformer with D8004 kit.
 - e. Bosch D122 Battery Harness
 3. Provide a minimum of (2) two Bosch D126 12-volt 8-amp-hour sealed lead acid batteries. Battery back-up shall be provided for at least 4 hours of standby in the event of AC power failure.
 4. Provide and install dedicated 120-volt AC power for panel.
 5. Final Security Panel location shall be provided to the school via CAD as-built drawings.
 6. Provide a full version of the programming software, RPS, for the panels; 'lite' versions are not acceptable.
- D. Remote Power Supplies

MDUSD #1627 - District Wide Security System Upgrade

1. Remote power supplies shall be Altronix model AL400ULX, 12VDC, 4 Amp, or approved equal. Provide minimum 12-volt, 7-amp-hour gel-cell batteries. Battery backup for 4 hours of standby shall be provided to power the intrusion alarm systems in the event of AC power failure.
 2. Monitor remote power supplies for AC power failure, low battery, and battery presence with individual identification. Monitor power supply doors with tamper switch.
 3. Provide and install dedicated 120-volt AC power for power supplies.
 4. Remote power supplies shall power motion detectors.
 5. Remote power supply locations shall be located in the electrical room, unless project dictated. However, mounting heights shall be between 12 inches minimum from the ceiling and 48 inches above the finished floor.
 6. Final remote power supply location shall be provided to the school via CAD as-built drawings.
- E. Key Pads
1. Key Pads shall be Bosch D1265 for touch screen locations and B930 at all other locations; or approved equal.
 - a. Refer to drawings for locations.
 2. Key Pads shall not be located in the general public areas and in non-adult supervised locations.
 3. Final key pad locations shall be provided to the school via CAD as-built drawings.
- F. Door Contacts
1. Flush door contacts shall be GE Sentrol 1076C single pole, double throw with pigtail leads, or approved equal.
 2. Surface door contacts shall be metallic, single pole, double throw with screw terminals and cover.
 3. Roof and roll up door sensors shall be GE Sentrol 2204A-L or approved equal.
 4. Each doorway shall provide for point identification, double doors may be labeled as one point.
 5. Provide and install contact for each exterior door or roof hatch sensor as indicated on drawings.
 6. Contacts shall be open loop type. Contact shall close when magnet is removed.
 7. Wireless devices are not acceptable.
 8. Provide proper mounting brackets for job conditions.
- G. Wall-mounted Motion Detectors
1. Refer to drawings for locations.
 2. Wall-mounted Motion Detectors shall be Bosch TriTech ISC-BDL2-W12G, or approved equal.
 3. Device shall provide for point identification.
 4. Use 4" square box with single gang ring for mounting rough-in.
 5. Metal wire guards to be 9-gauge steel coated wire.
- H. Beam detectors/reflectors:
1. Rated for Exterior purposes.
 2. For short distances (<200 ft)- Bosch DS422i or approved equal.
 3. For long distances (200-300 ft)- Bosch DS453Q or approved equal.
 4. Devices to be pole or wall mounted at a minimum of +18" AFF and a maximum of +36" AFF.
 5. Provide all required mounting hardware.
- I. Sirens
1. Sirens shall be Bosch D117 low current siren or approved equal.
- J. Expander Modules
1. Bosch B208 or approved equal.
 2. Install in expander enclosure D2803 in main buildings
 3. Install in expander enclosure D203 in modulars.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Receivers
 - 1. Install the primary and back-up receiver inside server rack at Maintenance and Operations Facility. Refer to section 28 12 00.
 - 2. Provide 4 hour UPS back-up power. Refer to section 28 12 00.
 - 3. Receiver software installation and set-up to be performed on Main Monitoring workstation. Refer to section 28 12 00.
 - 4. Each Alarm Security Panel to be addressed at each Receiver.
- B. Wire and Cable.
 - 1. Contractor shall follow the manufacturers' recommendation for cabling unless otherwise noted. Wire and cable sizes, number of conductors, shielding, or other data listed in this standard or if shown on Drawings are a guide to the correct product required to achieve a working system and represent minimum acceptable equipment. Contractor is responsible for calculating and then installing proper wire gauge for manufacturer acceptable voltage drop/signal loss/distance limitations. The size of the building shall determine the wire gauge of the cables for each project.
 - a. Minimum gauge shall be 16 for bus wiring in and between buildings and 22 for device wiring.
 - b. Maximum gauge shall be 12 gauge.
 - c. Cables shall be insulated, stranded copper, soft drawn annealed, 98% conductivity and bear the UL label.
 - d. All cables shall be concealed. No exposed cables shall be allowed.
 - 1) Provide J-hooks above accessible ceiling. Maintain minimum 6" between intrusion alarm cables and any existing telephone, data, and intercom cables.
 - 2) All cables not above accessible ceiling to be routed in conduit or surface raceway, refer specification to 26 05 12.
 - e. No intrusion alarm cables shall be exposed. No intrusion alarm cables shall share a conduit with telephone, data, or intercom cables. Provide and install conduit or wiremold at all locations where the intrusion alarm cables would be exposed.
 - f. Cables installed in underground or under slab conduits shall be rated for outdoor wet usage. Cables installed inside buildings shall be plenum rated when not shown on drawings as being installed in conduit or listed in the specifications as being installed in conduit. When an underground wet usage rated cable enters into a building, it shall be continued un-spliced until it reaches the first device or panel. There shall be no splicing of cables in underground boxes.
 - g. An additional 12 AWG THHN BLACK wire shall be installed from each remote equipment or power supply location directly back to the main panel to provide for a common reference point connection.
 - h. Cables shall be Belden, West Penn, Atlas, or equal.
- C. Initiating devices
 - 1. Drill exterior door frames for concealed door contacts. Drill exterior doors for magnets.
 - 2. Wall-mounted motion detectors shall be installed at 75-96" above finished floor. Motion detectors shall not be installed in locations that shall permit them to be obstructed by furnishings inside the room nor shall they be aimed directly at a window within its sensing range. Motion detectors shall not be located in corners, but shall be two to three feet from corners to help eliminate spiders from making webs on the detectors.
 - 3. All initiating devices shall be programmed with device labels, which will indicate the device's address number and shall be consistent with the addresses provided on the shop drawings, These self-adhesive labels shall be machine manufactured with 3/8" high black letters in bold Arial font on white background.
 - 4. Wire guards to be installed over all motion sensors in all recreation, gymnasiums, cafeterias, locker rooms, and multipurpose rooms.
 - 5. After testing is completed any motion detector LEDs shall be turned off.

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6. All final connections to devices to be in conduit and sealed. No exposed wiring acceptable.
- D. Programming
1. Special coordination is required with the District regarding programming requirements. Meet with the District's representatives and submit proposed labels for all input and output points for District review and comment. Submit programming information in spreadsheet format, both printed and in electronic format file.
 2. Install programming for door contacts, time zones, keypads, motion sensors, tamper switches, etc. Include test description locating initiating devices in the program with room numbers to be found on permanently mounted placards at room locations. Example: "M in Room B203" where M stands for motion detector.
 3. The Security panel and the program will be the property of the District and not the contractor. As such, no data lock or access codes will be allowed with this system. Final payment cannot be made and the warranty period cannot begin until any such data lock or access codes (other than factory default codes) are removed.
 4. Programming software and programming files shall belong to the District. Turn over programming software and programming files before end of project. Final payment cannot be made and the warranty period cannot begin until programming software and programming files have been received.
 5. The Contractor shall submit a completely filled out programming sheet in printed format and in electronic format (Microsoft Excel Spreadsheet) for preliminary review of proposed programming and descriptors. The Contractor shall make any changes to the programming sheet as directed by the written review comments.
 6. Contractor shall coordinate with the customer on the programming of the new Security panel. All correspondence shall be documented in writing.
- E. Key pads
1. Unless otherwise noted, key pads shall not be located in public hallways. Key pads shall be located in a room accessible from the exterior entry points for example: Data Rooms, Offices, and Custodial Closets.
 2. The exterior monitored door and any motion detectors in the path of travel to the location of the arming station shall be programmed with a 90-second ingress and egress delay.
- F. Labeling
1. All security panels, terminal boxes, pullboxes, motion sensors, other devices, and remote power supplies shall be labeled per district standard. Refer to drawings.
- G. The Security equipment and/or remote power supplies shall operate from a three-wire 120 VAC supply fed from a single dedicated circuit breaker. The circuit breaker shall be clearly labeled Intrusion Alarm System and shall be fitted with a clip to prevent it from being turned off. Where there is an emergency 120 VAC systems available, the intrusion alarm system and intrusion alarm auxiliary equipment shall be on the emergency panels. The location of the circuit disconnecting means shall be permanently identified at the security panel.
- H. There shall be at least one exterior siren installed with every alarm system per drawings.
- I. Any wiring problems or troubleshooting assistance needs to be performed by a Manufacturer's Certified Vendor on a prevailing wage basis by the contractor.
- J. District Alarm Center Protocols:
1. The District reserves the right to check the progress and status of all installations at anytime during the project with or without the permission of the superintendent at the site.
 2. Advise the Central Station Staff Supervisor if temporary security codes for existing alarm systems are needed for Contractors.
 3. When programming zones to indicated locations of alarms in the "Point Text", do not program the "Point Number" in the point field text.
 4. If there are more that one of the same type of location (ie: Hall, Stairwell, Office, Storage, Janitor closet, Rest Room, Counselor, Staff), the descriptor must indicate what area of which building. Programming with duplicate identical descriptor for different locations will be rejected by the District and the Contractor will be required to revise programming. If any

programming is found to be incorrect by the Alarm Center, the Contractor's Project Manager will be notified via email. The Contractor shall correct programming before continuing with project. All programming must be approved by the Alarm Center before final testing of the alarm system can be scheduled.

5. The Contractor shall submit a request in writing to the District for a list of authorized security code holders. The District shall provide in writing the full names and titles of all persons who are to have authorized security codes.
 6. Once the alarm system programming has been completed, advise the Central Station Staff Supervisor.
 7. Once the programming has been completed by the Contractor and has been accepted by the Central Station Staff Supervisor, then the Contractor will call up the panel and upload the program and send the zone information to the Central Station Receiver.
 8. The Contractor will be responsible for entering all data into the alarm system and Central Station. Only after this is completed shall the Contractor request a time and date for final testing.
 9. Final testing shall be performed by the Contractor in the presence of the District representative.
 10. After reviewing and approving documentation of final test submitted by the Contractor and after comparing documentation with Central Station's receiver the Central Station Staff Supervisor will notify the Contractor that the alarm system is live (on line) and is ready to be handed over to the District.
- K. Provide intrusion watch if for any reason there is no security system in operation. Intrusion watch shall provide onsite surveillance for all times the District staff are not onsite.
- L. At the time that a new intrusion alarm panel/dialer is installed and ready to be put online, the Contractor shall place the panel into test mode with the District's Central Station and perform a complete walk test to confirm that the Central Station monitoring receives all programmed zones prior to putting the system online with the Central Station. All devices shall be tested and confirmed reporting to the Central Station. Once confirmation that all zones have been received by the Central Station, the system will be considered officially online. The Contractor shall request from the District Project Manager, a written memo as to the time and date that the system was officially put online.
- M. Provide (6) spare key pad - (3) Bosch B930 and (3) Bosch D1265, (10) spare motion detectors (Bosch ISC-BDL2-W12G), (3) sirens (Bosch D117), and (10) Bosch B208 Expander Modules. All spare parts shall be new and not previously used. Turn over to the District project manager during the test of the intrusion system in factory sealed cartons,

3.02 TRAINING

- A. Provide training of District's personnel in the proper operation procedures, The training program for the District's personnel shall include the following:
1. Operations and Maintenance Manuals including 11- by 17-inch as-built drawings, Operations and Maintenance Manuals shall be a binder, containing complete operating instructions, outlining step-by-step procedures required for system start up, operation, and shut down, including the manufacturer's name, model number, service manual, parts lists, and brief description of all equipment and their basic operation features, complete maintenance instructions listing routine maintenance procedures, possible breakdowns and repairs, trouble-shooting guide, and half-size set of as-built drawings of the complete system, including conduit layout, equipment layout, device labels, and simplified wiring and security diagrams of the system. Two Operations and Maintenance Manuals shall be submitted and approved prior to conducting the training course.
 2. Provide manuals containing listings of all points, event programs, basic programming and instructions, and software troubleshooting information.
 3. Two separate 4-hour training sessions for operating personnel at each site. The sessions are to cover proper operating and response procedures. These instructions shall be sufficient to enable an untrained person to properly operate the system.

4. Provide a minimum of two - 4 hour sessions of scheduled training for the equipment furnished under this section, including training on programming, operation, service, and maintenance of system. This will be for District maintenance staff.
5. Record all training sessions on video and provide video as part of closeout documents.

3.03 AS-BUILT PROJECT RECORD DRAWINGS

- A. Before acceptance of work and final completion, the Contractor shall provide project record "as-built" drawings in AutoCAD, reflecting any and all changes and deviations made to the security alarm system during construction. The drawings shall indicate the following:
 1. As-built physical routing of conduit and wires to devices, including junction, pull, and expander module box locations.
 2. As-built riser diagram showing the zoning of devices and sirens.
 3. As-built panel wiring diagrams of the intrusion detection systems.
 4. Floor plan with final room number showing each intrusion device and security point with their respective address identification number per drawing requirements.
 5. All electrical circuit panels and breakers used for the security panel and remote power supplies.
 6. The acceptance testing records.
- B. Upon completion of the work, three sets of record drawings shall be submitted to the District, Additionally a CD with the intrusion alarm system as-builts in AutoCAD version 2008, full-size PDF drawing files, and a scanned copy of the final test forms signed by all parties shall be submitted as part of the close-out package.
- C. Provide complete Final Test Report of system along with Operation and Maintenance manuals, As-Built Drawings, and Warranty information. This information shall be provided before commencement of training.

END OF SECTION

SECTION 33 71 19
UNDERGROUND ELECTRICAL STRUCTURES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. PVC Coated Rigid Metal Conduit
- B. PVC Non-metallic Conduit and Ducts
- C. Underground pull boxes
- D. Underground vaults
- E. Manholes.
- F. Accessories

1.02 REFERENCES

- A. ASTM C 858 - Underground Precast Concrete Utility Structures.
- B. ASTM C 891 - Installation of Underground Precast Utility Structures.
- C. ASTM C 1037 - Inspection of Underground Precast Utility Structures.
- D. NEMA TC 6 - PVC and ABS Plastic Utilities Duct for Underground Installation.
- E. NEMA TC 9 - Fittings for ABS and PVC Plastic Utilities Duct for Underground Installation.
- F. NEMA TC 10 - PVC and ABS Plastic Communications Duct and Fittings for Underground Installation.
- G. NEMA TC 14 - Filament-Wound Reinforced Thermosetting Resin Conduit and Fittings.
- H. UL 651A - Type EB and A PVC Conduit and HDPE Conduit.

1.03 SUBMITTALS

- A. See Division 1 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide for nonmetallic conduit and manhole accessories.
- C. Shop Drawings: Indicate dimensions, reinforcement, size and locations of openings, and accessory locations for precast manholes, vaults, and pullboxes. Shop drawings shall include reinforcements for conduit openings and stamped by a registered structural engineer.
- D. Field Samples: Provide sample of actual plastic duct delivered to site, two each 2 feet long.
- E. Project Record Documents: Record actual routing and elevations of underground conduit and duct, and locations and sizes of manholes.
- F. Shop drawings of manhole, vault, and pullbox covers complete with nameplate schedule.

1.04 QUALITY ASSURANCE

- A. Products: Listed and classified by Underwriters Laboratories, Inc. as suitable for the purpose specified and indicated.

PART 2 PRODUCTS

2.01 CONDUIT AND DUCT

- A. PVC Coated Rigid Steel Conduit: ANSI C80.1.
 - 1. Product: Rigid Steel Conduit, corrosion-resistant, pvc coated. Shall be hot dip galvanized, to which a minimum 40-mil thick PVC coating has been bonded to the outside of the conduit. A 2-mil coat of urethane coating shall be bonded to the inside. Coating shall be free of pinholes. Elbows shall be factory made and coated.
- B. Plastic Utilities Duct:
 - 1. Conduit and fittings shall be homogeneous plastic material free from visible cracks, holes or foreign inclusions. The conduit bore shall be smooth and free of blisters, nicks or other imperfections which could damage conductors or cables.

2. Materials: Polyvinyl Chloride (PVC) schedule 40. Material shall comply with NEMA TC-2 for conduit and NEMA TC-3 for fittings.
 3. Product: Carlon P&C Duct or approved equal.
 4. Plug fittings with pull tab.
 5. Nominal size: as shown in drawings.
- C. Reinforced Resin Conduit and Fittings: NEMA TC 14, Type SW.
- D. Concrete - Concrete for conduit encasement shall be Class C with 3/8" maximum aggregate and shall be red concrete (iron oxide) with 28-days compressive strength of 2,500 psi.

2.02 UNDERGROUND PULLBOXES

- A. Manufacturers: Jensen Pre-cast, Christy Concrete Products, BES Concrete Products
- B. Sizes: 10" (width) x 17" (length) x 24" (depth), (Minimum Dimensions, U.O.N.).
- C. Pullboxes shall be precast concrete as indicated on plans.
1. Traffic Box - High density reinforced concrete box with non-setting shoulders positioned to maintain grade and facilitate back filling. Utility boxes shall be used where shown on the drawings. Use steel checker plate, H/20 loading, bolt down. Provide 12" extension pieces.
 2. General Utility Box - High density reinforced concrete box with non-setting shoulders positioned to maintain grade and facilitate back filling. Utility boxes shall be used where shown on the drawings. Use reinforced concrete lids on unfinished grades (i.e. grass, dirt, etc.), and steel checker plate lids on finished grades (i.e. concrete, asphalt, etc.) Provide 12" extension pieces.

2.03 ACCESSORIES

- A. Underground Warning Tape: 4 inch wide plastic tape, detectable type colored red with suitable warning legend describing buried electrical lines. Orange colored tape with suitable warning legend will describe buried telecommunications lines.
- B. Duct spacers shall be Wunpeece, Carlon Snap-N-Stack Combo Spacers or equal.
- C. Grounding Electrode Conductor - # 1 bare copper conductor
- D. Traceable mule tape. 5/8" diameter min. 1,800 lbs. with sequential footage markings. Install mule tape in all spare ducts/conduits.
- E. Duct Plugs - removable, reusable, plastic plugs. Watertight, airtight, and gastight with provisions for pullrope attachments.
- F. Duct Seal - non hardening, rated for outdoor locations.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Duct bank routing is shown in approximate locations unless dimensions are indicated. Route as required to complete duct system. Verify routing and termination locations of duct bank prior to excavation for rough-in.
- B. Pullboxes, Vaults and Manhole locations are shown in approximate locations unless dimensions are indicated. Locate as required to complete ductbank system. Verify locations of pullboxes, vaults and manholes prior to excavating for installation.
- C. Contractor shall locate pullboxes, vaults, and manholes away from drainage path.

3.02 DUCT BANK INSTALLATION

- A. Underground conduits shall be as specified PVC for electrical and telecommunications. PVC Coated rigid steel conduit shall be used in areas crossing steam piping, minimum 10 feet length on either side of steam piping. Do not run new conduits parallel to steam piping. Maintain a minimum of 5 feet clearance between steam or hot water piping and electrical conduits.
- B. Layout

1. Duct bank routing shown in the drawings is approximate. Exact duct banks routing shall be determined with close coordination with Project Manager. Account for existing field conditions, and new field conditions in coordinating the final routing of duct banks.
 2. Conduct exploratory excavation sufficiently ahead so that any obstacles can be determined pre-hand, and mediated sooner to make necessary offsets and bends around existing obstacles.
- C. Depth and Clearances
1. Install power and communications duct to locate top of ductbank minimum 30 inches below finished grade.
 2. Install duct with minimum slope of 4 inches per 100 feet (0.33 percent). Slope duct away from building entrances and to manholes where possible.
 3. Refer to trenching detail for minimum clearance/separation between utilities.
- D. All underground duct banks 600V and above shall be concrete encased.
- E. Installation
1. Install conduits as recommended by manufacturer using approved couplings, fittings, and cement.
 2. Cut duct square using saw or pipe cutter; de-burr cut ends.
 3. Insert duct to shoulder of fittings; fasten securely.
 4. Join nonmetallic duct using adhesive as recommended by manufacturer.
 5. Wipe nonmetallic duct dry and clean before joining. Apply full even coat of adhesive to entire area inserted in fitting. Allow joint to cure for 20 minutes, minimum.
 6. Install no more than equivalent of four 90-degree bends between pull points for power.
 7. Install no more than equivalent of two 90-degree bends between pull points for tel/com.
 8. Provide suitable fittings to accommodate expansion and deflection where required.
 9. Terminate duct at manhole entries using end bell.
 10. Stagger duct joints vertically in concrete encasement 6 inches minimum.
 11. Use suitable separators and chairs installed not greater than 4 feet on centers.
 12. Band ducts together before backfilling.
 13. Securely anchor duct to prevent movement during concrete placement.
 14. Use mineral pigment (iron oxide) to color concrete red for electrical ducts.
 15. Provide minimum 4 inch concrete cover at bottom, top, and sides of ductbank.
 16. Connect to existing concrete encasement using dowels.
 17. Connect to manhole wall using dowels.
 18. Provide mule tape in each empty duct.
 19. Immediate after backfilling and compaction swab ducts. Draw a testing mandrel not less than 12 inches long with a diameter 1/4" less than the interior diameter of the conduit through each conduit. Then draw a stiff wire bristle brush and size to match conduit diameter until conduit is clear of all particles of earth, sand, and gravel. Use suitable duct plugs to protect installed duct against entrance of dirt and moisture.
 20. Interface installation of underground warning tape with backfilling. Install tape 12 inches above concrete envelope.

3.03 PRE-CAST MANHOLE, VAULTS, AND UNDERGROUND PULLBOX INSTALLATION

- A. Install and seal precast sections in accordance with ASTM C 891.
- B. Install manholes plumb.
- C. Use precast neck and shaft sections to bring manhole cover to finished elevation. Refer to grading plans for finished elevations.
- D. Attach cable racks to inserts after manhole installation is complete.
- E. Provide crushed rocks min 6" in bottom of manholes for proper drainage or install drains and connect to closest site drainage system.
- F. Install two ground rods, one on each opposite corners. Ground rods shall project 6" above manhole floor.

- G. Clean manhole of any debris prior to substantial completion. Drain manhole of water.

END OF SECTION

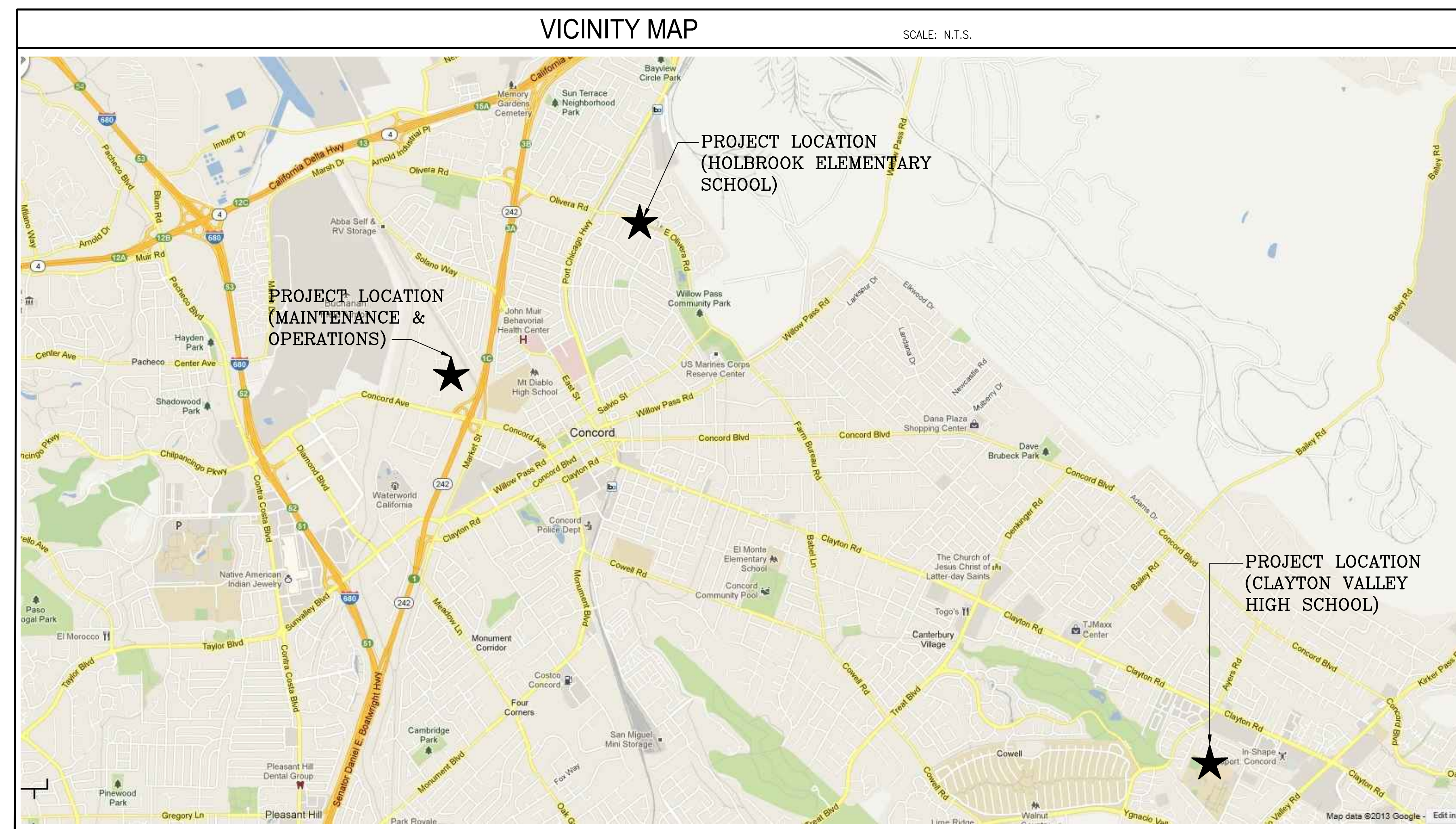


MDUSD

MT. DIABLO UNIFIED SCHOOL DISTRICT
 MAINTENANCE, OPERATIONS AND FACILITIES

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DISTRICT WIDE SECURITY SYSTEM UPGRADES GROUP I 2010 MEASURE 'C' PROJECTS MDUSD PROJECT #1627



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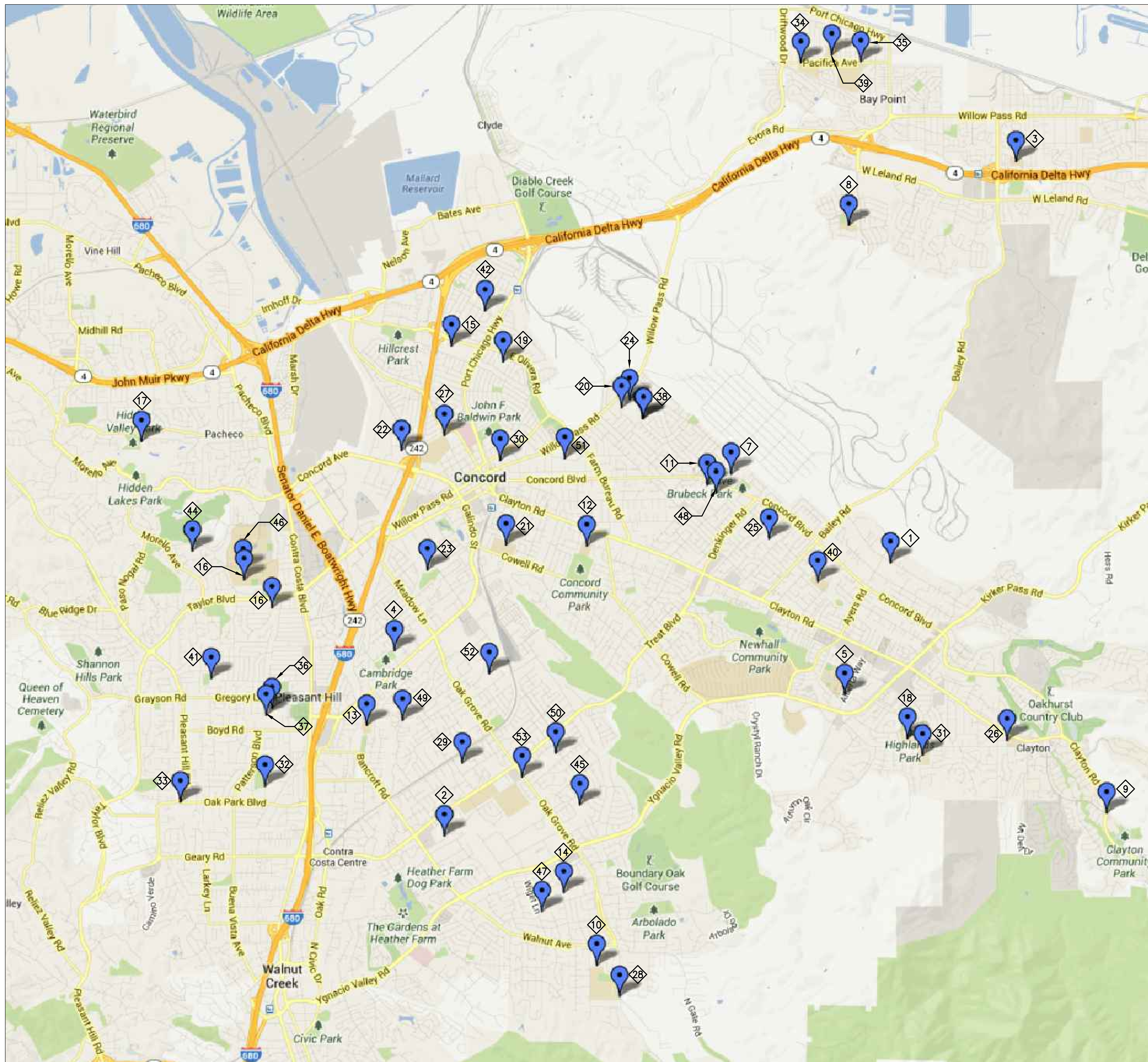
NO.	DATE	REVISION DESCRIPTION
	05/09/13	95% CD
	07/05/13	BID SUBMITTAL

COVER

DISTRICT WIDE SECURITY SYSTEM UPGRADES
 2010 Measure 'C' Projects, MDUSD PROJECT #1627

DRAFTER:	DATE:
DESIGNER: HK	DATE: 07/05/13
PROJECT: SOBE: 12123	
SCALE: AS NOTED	
SHEET NUMBER: TY-1.00	
	OF

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SITE NOTES

1	AYERS ELEMENTARY SCHOOL	AES
2	BANCROFT ELEMENTARY SCHOOL	BES
3	BEL AIR ELEMENTARY SCHOOL	BAES
4	CAMBRIDGE ELEMENTARY SCHOOL	CES
5	CLAYTON VALLEY HIGH SCHOOL	CVHS
6	COLLEGE PARK HIGH SCHOOL	CPHS
7	CONCORD HIGH SCHOOL	CHS
8	DELTA VIEW ELEMENTARY SCHOOL	DVES
9	DIABLO VIEW MIDDLE SCHOOL	DVMS
10	EAGLE PEAK MONTESSORI	EPM
11	EL DORADO MIDDLE SCHOOL	EDMS
12	EL MONTE ELEMENTARY SCHOOL	EMES
13	FAIR OAK ELEMENTARY SCHOOL	FOES
14	FOOTHILL MIDDLE SCHOOL	FMS
15	GLENBROOK MIDDLE SCHOOL	GMS
16	GREGORY GARDENS ELEMENTARY SCHOOL	GGES
17	HIDDEN VALLEY ELEMENTARY SCHOOL	HVES
18	HIGHLANDS ELEMENTARY SCHOOL	HES
19	HOLBROOK ELEMENTARY SCHOOL	HBES
20	JAMES DENT CENTER	JDC
21	LCMA VISTA ADULT CTR	LVAC
22	MAINTENANCE & OPERATIONS	MO
23	MEADOW HOMES ELEMENTARY SCHOOL	MHES
24	MONTE GARDENS ELEMENTARY SCHOOL	MGES
25	MOUNTAIN VIEW ELEMENTARY SCHOOL	MVES
26	MT. DIABLO ELEMENTARY SCHOOL	MDES
27	MT. DIABLO HIGH SCHOOL	MDHS
28	NORTHGATE HIGH SCHOOL	NHS
29	OAK GROVE MIDDLE SCHOOL	OGMS
30	OLYMPIC HIGH SCHOOL	OHS
31	PINE HOLLOW MIDDLE SCHOOL	PHMS
32	PLEASANT HILL ED CTR	PHC
33	PLEASANT HILL ELEMENTARY SCHOOL	PHES
34	RIO VISTA ELEMENTARY SCHOOL	RVES
35	RIVERVIEW MIDDLE SCHOOL	RMS
36	SEQUOIA ELEMENTARY SCHOOL	SES
37	SEQUOIA MIDDLE SCHOOL	SMS
38	SHADELANDS CENTER	SC
39	SHORE ACRES ELEMENTARY SCHOOL	SAES
40	SILVERWOOD ELEMENTARY SCHOOL	SWES
41	STRANDWOOD ELEMENTARY SCHOOL	STWES
42	SUN TERRACE ELEMENTARY SCHOOL	STES
43	SUNRISE ELEMENTARY SCHOOL	SRES
44	VALHALLA ELEMENTARY SCHOOL	VES
45	VALLE VERDE ELEMENTARY SCHOOL	VVES
46	VALLEY VIEW MIDDLE SCHOOL	VVMS
47	WALNUT ACRES ELEMENTARY SCHOOL	WNES
48	WEST WOOD ELEMENTARY SCHOOL	WWES
49	WILLOW CREEK CENTER	WCC
50	WOODSIDE ELEMENTARY SCHOOL	WES
51	WREN AVE ELEMENTARY SCHOOL	WAES
52	YGNACIO VALLEY ELEMENTARY SCHOOL	YVES
53	YGNACIO VALLEY HIGH SCHOOL	YVHS



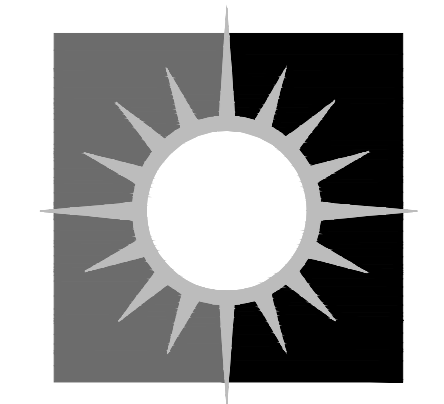
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MT. DIABLO UNIFIED SCHOOL DISTRICT SITES
DISTRICT WIDE SECURITY SYSTEM UPGRADES
2010 Measure 'C' Projects, MDUSD PROJECT #1627

DRAFTER:	DATE:
DESIGNER: HK	DATE: 07/05/13
PROJECT: SOBE: 12123	
SCALE: AS NOTED	
SHEET NUMBER: TY-1.01	OF



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GENERAL NOTES

- ALL TEMPORARY CONNECTIONS SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY, PERSONAL, AND PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT, AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
- THE CONTRACTOR SHALL PROVIDE TO THE DISTRICT AND ENGINEER A CONSTRUCTION SCHEDULE OF ALL ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
- THE CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL, AT THE CONCLUSION OF THE PROJECT, PROVIDE A SET OF REPRODUCIBLE (AUTOCAD), ACCURATE AND NEAT "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.
- THESE DRAWINGS DO NOT REPRESENT THE EXACT LOCATIONS, SIZES OR EXTENT OF UTILITIES ON SITE. CONTRACTOR SHALL TAKE STANDARD PRECAUTIONS FOR WORK IN EXISTING FACILITIES.
- EXISTING ELECTRICAL WIRING WHICH WILL NOT BE MADE OBSOLETE AND WHICH WILL BE DISTURBED DUE TO CONSTRUCTION CHANGES REQUIRED BY THIS CONTRACT SHALL BE RESTORED TO OPERATING CONDITION, AS REQUIRED AND/OR DIRECTED. WHERE REQUIRED, SHOWN AND/OR DIRECTED, OUTLETS AND CONDUIT RUNS SHALL BE RELOCATED. IN SOME CASES IT MAY BE NECESSARY TO EXTEND CONDUITS AND PULL IN NEW WIRING OR INSTALL JUNCTION BOXES AND SPLICE IN NEW WIRING OR REPLACE OLD WIRING WITH NEW.
- ALL ELECTRICAL MATERIALS AND EQUIPMENTS SHALL BE NEW AND SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND SHALL BE INSTALLED AS PER LISTING OR LABELING (IE. MAXIMUM FUSE SIZE MEANS FUSE PROTECTION IS REQUIRED).
- ALL ELECTRICAL EQUIPMENTS AND INSTALLATION SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - AMERICAN STANDARD ASSOCIATION (ASA)
 - AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
 - AMERICAN SOCIETY OF TESTING MATERIALS (ASTM)
 - CALIFORNIA CODE OF REGULATIONS TITLE 24 (CCR)
 - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
 - INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
 - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATIONS (NEMA)
 - NATIONAL FIRE PROTECTION AGENCY (NFPA)
 - ALL LOCAL CODE HAVING JURISDICTION
- CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENTAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL UTILITY SYSTEM SHUT-DOWNS AND START-UP. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION REQUIRED WITH OTHER AGENCIES AND UTILITY COMPANIES.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CROSSINGS ON NEW UTILITIES WITH THAT OF EXISTING ON SITE AND IN ADJACENT PROPERTIES. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DEVIATIONS OR DISCREPANCIES FROM THIS PLAN.
- BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, CONDUIT RUNS, ETC. WITH ARCHITECT AND OWNER. PLACE DEVICES ABOVE COUNTERTOPS, SINKS, SHING, ETC. AND IN BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL DRAWINGS SHALL GOVERN. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF ELECTRICAL DEVICES.
- FOR RENOVATION WORK, THE CONTRACTOR SHALL CONCEAL ALL WORK WHERE POSSIBLE. ALL EXPOSED RACEWAY AND BOXES IN OCCUPIED AREAS OR ON EXTERIOR WALLS SHALL BE PAINTED TO MATCH ADJACENT FINISHES.
- THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND/OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS SPECIFICATION. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED.
- SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS. FURNISH AND INSTALL FIRE RATED BACKBOXES AS REQUIRED MAINTAINING FIRE RATING OF CEILING OR WALLS WHERE RECESSED ELECTRIC EQUIPMENT SUCH AS LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANEL, ETC. ARE INSTALLED IN RATED WALL OR CEILING. PENETRATIONS OF FIRE RATED WALLS, CEILINGS, OR FLOORS SHALL COMPLY WITH UBC CHAPTER 7 REQUIREMENTS. CONDUIT PENETRATIONS THAT ARE NOT STUBBED-OUT INSIDE THE WALL SHALL MEET F AND T RATING. ALL FIRE PROOFING METHOD SHALL BE UL APPROVED.
- ALL EXTERIOR EQUIPMENT SHALL BE NEMA 3R RATED. ALL WALL PENETRATIONS TO EXTERIOR WALLS SHALL BE SEALED WATER TIGHT.
- PULLING TAPES: ALL UNDERGROUND RACEWAY WITH AND WITHOUT CABLE OR WIRE SHALL BE INSTALLED WITH A MINIMUM 1100 LBS. STRENGTH TEST POLYESTER PULLING TAPE. PULLING TAPES SHALL BE DETECTABLE WITH SEQUENTIAL FOOTAGE MARKING. ALL ABOVE GROUND PULLSTRING TO HAVE SEQUENTIAL FOOTAGE MARKINGS.
- ALL CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 200 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.
- FINAL CONNECTIONS TO ALL EQUIPMENT SHALL BE PER MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIAL AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
- DO NOT COMBINE DIFFERENT SYSTEM VOLTAGES IN SAME CONDUIT (EG., 120/208V VS. 277/480V), UNLESS IS APPROVED BY ENGINEER OR SHOWN ON DRAWINGS.
- ELECTRICAL SYSTEMS SHALL BE INSTALLED FOR FINAL INSPECTIONS. PROVIDE NEUTRAL TEST AND PROOF OF TORQUE DURING FINAL INSPECTION FOR ALL UNITS. FINAL TERMINATIONS OF CONDUCTORS TO ELECTRICAL EQUIPMENT AND DEVICES SHALL BE TORQUE WRENCH TIGHTENED TO THE MANUFACTURER'S RECOMMENDED SPECIFICATION, NO EXCEPTION.
- CIRCUIT BREAKER TERMINALS IN SWITCHBOARDS AND LOAD CENTER SHALL BE UL LISTED AND APPROVED FOR USE COPPER 75 DEGREE CELSIUS CONDUCTORS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAW-CUTTING, TRENCHING, BACKFILLING, COMPACTION AND PATCHING OF CONCRETE AND ASPHALT AS REQUIRED TO COMPLETE WORK. USE EXTREME CAUTION WHEN TRENCHING NEAR EXISTING UNDERGROUND UTILITY LINE. CONTRACTOR SHALL PROVIDE ALL REQUIRED CUTTING, PATCHING, PAINTING, AND REPAIRS NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT THE START OF WORK.
- ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST HORIZONTAL FORCE ACTING IN ANY DIRECTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF ASCE 1-05 13.2
- RIGID GALVANIZED STEEL CONDUIT SHALL BE USED FOR ALL EXTERIOR APPLICATIONS, ALL CONDUITS LARGER THAN 1-1/2" TRADE DIAMETER, AND ALL INDOOR CONDUITS BELOW EIGHT (8) FEET FROM FINISHED FLOOR.
- ELECTRICAL METALLIC TUBING (EMT) IS ONLY ALLOWED IN INTERIOR LOCATION ABOVE EIGHT (8) FEET FROM FINISHED FLOOR AND WHEN ENTERING A PANEL FROM ABOVE.
- POLYVINYL CHLORIDE (PVC) SCHEDULE 40 MAY BE INSTALLED BENEATH SLAB AND UNDERGROUND INSTALLATION. INSTALL PVC COATED RIGID STEEL CONDUIT FOR TRANSITION FROM UNDERGROUND TO ABOVE GRADE INSTALLATION.
- ALL SECURITY PANELS AND REMOTE POWER SUPPLIES SHALL BE PROVIDED WITH DEDICATED CIRCUITS. IDENTIFY CIRCUIT DESIGNATION AND PROVIDE PERMANENT LABELING, "SECURITY PANEL CIRCUIT" ON ELECTRICAL PANEL.
- CONTROL CONDUIT FOR ENERGY/BUILDING MANAGEMENT SYSTEM (E/BMS) SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- ROUTE CONDUIT PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.
- WHEN A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT, CIRCUIT BREAKERS, ETC., ARISES ON THE DRAWINGS OR SPECIFICATIONS, CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL REQUIRED BY THE MOST STRINGENT CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO PROVIDE A COMPLETE AND OPERABLE SYSTEM, OR AS DIRECTED BY ENGINEER.
- ALL FINAL ELECTRICAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE ELECTRICAL CONTRACTOR.
- CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS, EQUIPMENT OR INSTALLATION METHODS.
- PRIOR TO SUBMITTING PROPOSAL, BIDDER SHALL EXAMINE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AND SHALL HAVE HAD VISITED A MINIMUM OF ONE HIGH SCHOOL, MIDDLE SCHOOL, AND ONE ELEMENTARY SCHOOL. IN ADDITION BIDDER MUST VISIT NORTHGATE HIGH SCHOOL. HE SHALL BE FAMILIAR WITH THE CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
- THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND/OR OTHER WORK DUE TO THE WORK UNDER THIS PROJECT AND SHALL CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED.

DEMOLITION NOTES

- REMOVE EXISTING EQUIPMENT IN CONFLICT WITH NEW CONDITIONS. REMOVE ALL WIRE NOT IN SERVICE AND FROM ABANDONED RACEWAYS. PROTECT EXISTING CIRCUITING PASSING THROUGH DEMOLITION AREAS. EXTEND AND/OR RELOCATE AS NECESSARY.
- ALL REMOVED SECURITY EQUIPMENT SHALL BE COVERED WITH BLANK METAL PLATES AND PAINTED TO MATCH THE ADJACENT FINISH OF SURROUNDING WALLS OR CEILING TO THE SATISFACTION OF THE ENGINEER/OWNER.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE TO DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AFFECTED BY THE PROJECT. THIS INCLUDES REROUTING OR THE EXTENSION OF EXISTING CONDUIT AND FEEDER WHERE NECESSARY TO MAINTAIN OPERATION OF ANY EXISTING EQUIPMENT.
- CIRCUIT NUMBERS AND CONDUIT HOMERUNS SHOWN ON THESE DRAWINGS WERE TAKEN FROM EXISTING RECORD DRAWINGS. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING CIRCUITING AND CONDUIT HOMERUNS. ADJUST CIRCUIT NUMBERS ACCORDING TO THE ACTUAL CONDITIONS AND NOTE IN AS-BUILT DRAWINGS.
- WHERE EXISTING CONDUIT IS TO BE ABANDONED OR DEMOLISHED, THE CONDUIT SHALL BE REMOVED IF IT IS EXPOSED, IN A CRAWL SPACE OR IN AN ACCESSIBLE CEILING ABANDONED OR DEMOLISHED CONDUIT FEEDS UP THROUGH THE FLOOR SHALL BE CUT OFF AND PLUGGED FLUSH WITH THE FLOOR.
- EXISTING CIRCUITS WHICH ARE REMOVED AND NOT REUSED SHALL BE IDENTIFIED ON THE PANEL SCHEDULE AS "SPARE".
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO REMOVAL OF EXISTING ELECTRICAL EQUIPMENT AND TURN OVER REMOVED EQUIPMENT THAT THE OWNER REQUESTS IN AN "AS-FOUND" CONDITION.
- WHEN CALLED FOR, OR SCOPE OF WORK REQUIRES ELECTRICAL EQUIPMENT TO BE REMOVED, ALL CONDUIT, WIRE, BOXES, HANGERS, ETC. SHALL BE REMOVED COMPLETELY. ALL OPENINGS SHALL BE PATCHED, SEALED AND PAINTED TO MATCH THE ADJACENT FINISH.

SUMMARY OF WORK

ELECTRICAL WORK:

- FURNISH AND INSTALL A NEW INTRUSION ALARM SYSTEM FOR ENTIRE CAMPUS COVERAGE. INTRUSION ALARM SYSTEM TO INCLUDE SECURITY PANEL, MOTION SENSORS, DOOR CONTACTS, SIRENS, KEYPADS AND ALL OTHER COMPONENTS TO COMPLETE THE SYSTEM.
- DISCONNECT AND REMOVE EXISTING INTRUSION ALARM SYSTEM. EXISTING SYSTEM SHALL REMAIN OPERATIONAL UNTIL INSTALLATION AND COMMISSIONING OF NEW INTRUSION ALARM SYSTEM IS COMPLETE. IF DAMAGED, CONTRACTOR TO FIX AND REPAIR ANY EXISTING SYSTEMS. IF NECESSARY, CONTRACTOR SHALL PROVIDE 24/7 SECURITY WATCH FOR ANY BUILDINGS THAT ARE OFFLINE DURING INSTALLATION.
- PROVIDE JUNCTION/PULLBOX WITH CONDUIT AND PULL STRING BACK TO MAIN PANEL FOR FUTURE SECURITY CONNECTION TO FUTURE BUILDINGS.
- FURNISH AND INSTALL A FULLY FUNCTIONING CENTRAL MONITORING STATION AT MAINTENANCE AND OPERATIONS FACILITY. CENTRAL MONITORING STATION SHALL HAVE MONITORING, DISPATCHING, LOGGING CAPABILITIES AS WELL AS POSSIBLE. FUTURE INTEGRATION OF CAMERAS AND ACCESS CONTROL. PROVIDE PROGRAMMING AND TRAINING TO DISTRICT STAFF.
- FOR BIDDING PURPOSES, ALL WORK SHALL BE DONE DURING SWING SHIFT WHILE CLASSES ARE NOT IN SESSION. WORK HOURS ARE FROM 3PM-7AM. ANY SYSTEMS SHUTDOWNS SHALL BE COORDINATED WITH THE DISTRICT.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS INCLUDING BUT NOT LIMITED TO:
 - DIMENSIONED ELEVATION DETAILS OF SECURITY PANEL AND POWER SUPPLIES.
 - COMPLETE SHOP DRAWINGS IN CAD INCLUDING SYSTEM WIRING DIAGRAMS, FLOOR PLANS, POINT TO POINT WIRING DIAGRAMS SHOWING ALL CONDUCTORS AND TERMINATIONS FOR ALL SYSTEMS. DIMENSIONED ELEVATION DETAILS OF SECURITY PANEL AND POWER SUPPLIES, DETAILS OF ATTACHMENT OF EQUIPMENT CABINETS
 - MANUFACTURER'S NAMES, MODEL NUMBERS AND CATALOG REFERENCES FOR ALL EQUIPMENT SUPPLIES
 - LISTING OF ALL SYSTEM INPUT AND OUTPUT POINTS WITH A SEQUENCE OF OPERATIONS
 - BILL OF MATERIALS REFERENCING MATERIALS TO SPECIFICATION SECTIONS
 - BATTERY CALCULATIONS FOR ALL PANELS AND POWER SUPPLIES
 - TRAINING SYLLABUS
- CONTRACTOR SHALL PROVIDE CAD AS-BUILTS INDICATING INSTALLED SYSTEM INCLUDING BUT NOT LIMITED TO:
 - SYSTEM ARCHITECTURE
 - SITE SPECIFIC WIRING DIAGRAM AND ASSOCIATED CALCULATIONS
 - LOCATIONS AND IDENTIFICATION OF ALL TERMINAL BOXES, DEVICES, AND OTHER EQUIPMENT RELATED TO THE INTRUSION DETECTION SYSTEM
 - ROUTING OF NEW CONDUIT
 - IDENTIFICATION OF ANY EXISTING CONDUIT USED.

BID ALTERNATE 1:

- PROVIDE INFRASTRUCTURE FOR FUTURE ACCESS CONTROL TO EACH BUILDING. PROVIDE ADDITIONAL CONDUIT AND PULL STRING BACK TO MAIN PANEL. BID ALTERNATE CONDUIT IS NOTED ACCORDINGLY.

BID ALTERNATE 2:

- FURNISH AND INSTALL DOOR CONTACTS AT ALL EXTERIOR DOORS. PROVIDE WIRING, CONDUIT AND ADDITIONAL EQUIPMENT AND DEVICES AS REQUIRED. BID ALTERNATE DEVICES AND PANELS ARE NOTED ACCORDINGLY.

BID ALTERNATE 3:

- INTEGRATE THE DISTRICT'S EXISTING SECURITY CAMERA SYSTEM INTO THE NEW CENTRAL MONITORING STATION SOFTWARE. INCLUDE ALL COSTS FOR PROGRAMMING OF PSIM SOFTWARE FOR COMPLETE INTEGRATION. CONTRACTOR RESPONSIBLE FOR COORDINATION WITH DISTRICT FOR EXISTING CAMERA LOCATIONS. CURRENT CAMERA SYSTEM IS OCULARIS (ONSS)

SYMBOLS & ABBREVIATIONS

	NEW TO EXISTING CONNECTION	1PH	SINGLE-PHASE
	REFERENCE SHEET NOTE/WORK ITEM	1P	SINGLE-POLE
	EXPOSED CONDUIT	3PH	THREE-PHASE
	UNDERGROUND CONDUIT	3WAY	THREE-WAY
	CONDUITS, WIRES, ETC TO BE DEMOLISHED	AFB	ABOVE FINISHED FLOOR
	EXISTING DEVICES, CONDUITS, WIRES ETC TO REMAIN	AFG	ABOVE FINISHED GRADE
	NEW (BOLD) DEVICES, CONDUITS, WIRES, ETC	AFS	ABOVE FINISHED SLAB
	BRANCH CIRCUIT HOME RUN TO PANEL, CONCEALED IN CEILING SPACE OR WHERE POSSIBLE.	ALT	BID ALTERNATE
	BRANCH CIRCUIT HOMERUN TO PANEL (4#12 + 1#12 G. IN 'C. UON)	BLDG	BUILDING
	CONDUIT UP	BRKR	BREAKER
	CONDUIT DOWN	C	CONDUIT
	CONDUIT STUBBED OUT IN ACCESSIBLE CEILING LOCATION OR BELOW SPACE STRUCTURE AND CAPPED, MARK WITH PULLBOX	CKT	CIRCUIT
	FLEXIBLE CONDUIT	CKT BRKR	CIRCUIT BREAKER
	SURFACE RACEWAY/WIREMOLD	DEMO	DEMOLITION
	BACKBOARD	DET	DETAIL
	SIREN	<E>	EXISTING
	DOUBLE DUPLEX POWER RECEPTACLE	<ERR>	EXISTING TO REMAIN AND BE RECONNECTED
	KEY PAD, MOUNTED +44" A.F.F. U.O.N./KEY PAD, MOUNTED +44" A.F.F. U.O.N. TOUCHSCREEN	EQ	EQUAL
	DOOR SENSOR (BASE BID)	EQUIP	EQUIPMENT
	DOOR SENSOR (BID ALTERNATE #2)	<F>	FUTURE
	MOTION DETECTOR WITH C = CEILING MOUNT W = WALL MOUNT	FT	FEET
	SECURITY DOOR JUNCTION BOX, 12"x16"x6"D, UON./SECURITY PANEL	GND	GROUND
	WIREWAY	J-BOX	JUNCTION BOX
	JUNCTION BOX - CEILING/WALL/FLOOR MOUNTED	IDF	INTERMEDIATE DISTRIBUTION FRAME
	ELECTRICAL PANELBOARD	LV	LOW VOLTAGE
	SIGNAL PULL BOX (SIZE PER PLAN)	MOF	MAIN DISTRIBUTION FRAME
	TELCOM TERMINAL CABINET, IDF	MIN.	MINIMUM
	UNDERGROUND SIGNAL PULLBOX 1730	MTD	MOUNTED
	WIRELESS TRANSMITTER OR RECEIVER	<N>	NEW
	BEAM REFLECTOR	NIC	NOT IN CONTRACT
	BEAM DETECTOR	NTS	NOT TO SCALE
	SURFACE MOUNTED PULLBOX 24x24	OC	ON CENTER
		PB	PULL BOX
		PH	PHASE
		PNL	PANEL
		PORT	PORTABLE
		REST	RESTROOM
		REV	REVISION
		SEC	SECURITY
		TYP	TYPICAL
		UBC	UNIFORM BUILDING CODE
		UPC	UNIFORM FIRE CODE
		UPD	UNDER FLOOR DUCT
		WW	WIREWAY

SCHOOL EQUIPMENT ANCHORAGE

- ALL MECHANICAL AND ELECTRICAL COMPONENTS AND THEIR SUPPORTS SHALL SATISFY THE CRITERIA DESCRIBED IN ASCE 7-09 SECTIONS 13.6.1, 13.6.2, 13.6.3, AND 13.6.4 THROUGH 13.6.8.
- THE TOTAL DESIGN SEISMIC FORCE SHALL BE DETERMINED FROM ASCE STANDARD 7-05 SECTION 13.3.1. THE HORIZONTAL SEISMIC FORCE F_p SHALL BE APPLIED AT THE COMPONENT'S CENTER OF GRAVITY PER EQUATION (13.3.1). MECHANICAL AND ELECTRICAL COMPONENTS WITH AN I_p GREATER THAN 1.0 SHALL BE SUBJECT TO ADDITIONAL REQUIREMENTS LISTED IN SECTIONS 13.6.3 AND 13.6.4, RESPECTIVELY.
- SEE CBC 161441.13 SECTION 13.6.1.1 FOR HVAC DUCTWORK, PLUMBING/PIPING AND CONDUIT SYSTEMS; AND SECTION 13.6.1.2 FOR TRAPEZE ASSEMBLIES.
- WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.

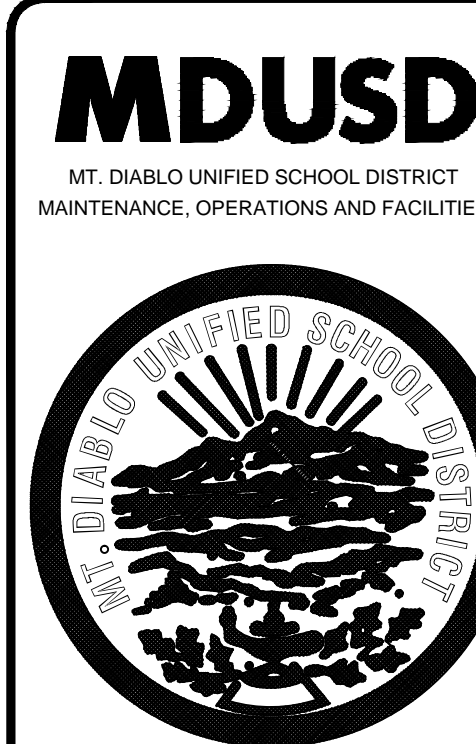
CABLE SCHEDULE

CABLE SCHEDULE			
TYPE	DESCRIPTION	FUNCTION	INSTALLATION
A	CAT 5E; PURPLE OUTSIDE PLANT / PLENUM RATED	DATA/PHONE	CONDUIT/J-HOOKS
B	16/4; NON-SHIELDED, BELDEN 5202U1 AND/OR 5202UE	MAIN TRUNK SECURITY (KEY PAD)	CONDUIT/J-HOOKS
C	22/4; MILD TWISTED, NON-SHIELDED, BELDEN 6541UE	SECURITY (DEVICES)	CONDUIT/J-HOOKS

APPLICABLE CODES

- UNLESS OTHERWISE INDICATED OR SPECIFIED, PERFORM THE WORK IN CONFORMANCE WITH THE LATEST EDITIONS OF ALL APPLICABLE REGULATORY REQUIREMENTS, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
- CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24): 2010
 - CALIFORNIA BUILDING CODE (PART 2, TITLE 24): 2009 IBC WITH 2010 CA AMENDMENTS
 - CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24): 2008 NEC WITH 2010 CA AMENDMENTS
 - CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24): 2009 UMC WITH 2010 CA AMENDMENTS
 - CALIFORNIA PLUMBING CODE (PART 5, TITLE 24) 2009 UPC WITH 2010 CA AMENDMENTS
 - CALIFORNIA ENERGY CODE (PART 6, TITLE 24): 2010
 - CALIFORNIA HISTORICAL BUILDING CODE, (PART 8, TITLE 24): 2010
 - CALIFORNIA FIRE CODE (PART 9, TITLE 24): 2009 IFC WITH 2010 CA AMENDMENTS
 - CALIFORNIA EXISTING BUILDING CODE (PART 10, TITLE 24): 2009 INTERNATIONAL BUILDING EXISTING CODE WITH 2010 CA AMENDMENTS)
 - CALIFORNIA GREEN BUILDING STANDARDS CODE OR CAL GREEN (PART 11, TITLE 24): 2010
 - CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24): 2010
 - PUBLIC SAFETY (TITLE 19), STATE FIRE MARSHAL: 2010
 - NFPA 72, NATIONAL FIRE ALARM CODE, 2010 EDITION W/ CA AMENDMENTS

AMERICANS WITH DISABILITIES ACT (A.D.A.) TYPE II & III FEDERAL ACCESSIBILITY STANDARDS
 ACI 318-05 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 AISC MANUAL OF STEEL CONSTRUCTION, 13TH EDITION
 ASCE 7-05, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2005 ED.
 PG&E GREEN BOOK: CURRENT EDITION
 ANSI/TIA/EIA-569-B AND ANSI/TIA/EIA-758



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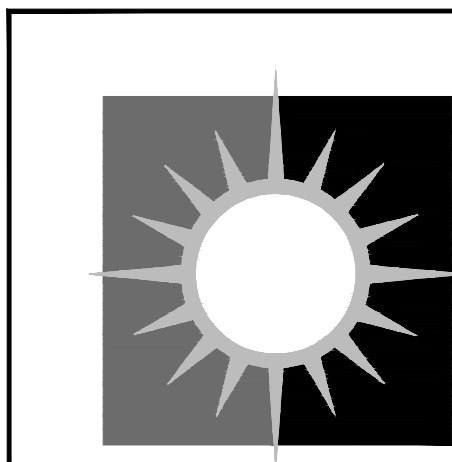
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NO.	DATE	REVISION DESCRIPTION
	05/09/13	95% CD
	07/05/13	BID SUBMITTAL

GENERAL NOTES, CODES, SUMMARY OF WORK, SYMBOLS & ABBREVIATIONS

DISTRICT WIDE SECURITY SYSTEM UPGRADES
2010 Measure 'C' Projects, MDUSD PROJECT #1627

DRAFTER:	DATE:
HK	07/05/13
DESIGNER:	DATE:
SOBE: 12123	
PROJECT:	SCALE:
AS NOTED	
SHEET NUMBER:	
TY-1.02	
OF	



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