



REVISED – 8-17-16

**Project 413A-2: Indian Valley Campus-Perimeter Road
Retaining Walls Repairs/Replacement Phase II
#16-0804**

Marin Community College District

**Mandatory Conference/Walk: Wednesday, August 17, 2016, at 2:00 p.m.
Corporation Yard (Building 22)
1800 Ignacio Blvd., Novato, CA 94949**

**Proposal Due Date: received by 3:00 p.m. Monday, September 12, 2016
1800 Ignacio Blvd., Blg. #8
Novato, CA 94949**

Bidder must have a current & active California "A"-General Engineering

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1.1 NOTICE INVITING BIDS

1. Notice is hereby given that the Governing Board ("Board") of the Marin Community College District ("District"), of the County of Marin, State of California, will receive sealed bids for the **Project 413A-2: Indian Valley Campus-Perimeter Road Retaining Walls Repairs/Replacement Phase II #16-0804** ("Project") up to, but not later than, **3:00 p.m. Monday, September 12, 2016**, and will thereafter publicly open and read aloud the bids. All bids shall be received at the office of the **District Buyer, located at College of Marin, Indian Valley Campus, 1800 Ignacio Blvd., Building 8, in Room 130, in Novato, California, 94949**. Bid opening will occur on the date and time stated above at the College of Marin, Indian Valley Campus, 1800 Ignacio Blvd., Administrative Services Building 8, in Room 130, at Novato, California, 94949.
2. Substantial Completion of the work shall be achieved by **March 15, 2017** as set forth in the Notice to Proceed issued by the District. Failure to achieve Substantial Completion with the Contract time will result in the assessment of Liquidated Damages of **\$200/calendar day** as detailed in the General Conditions, Section 22.
3. A summary of this bid: Repairs/Replacement of selected retaining walls **and associated fencing** along the Perimeter Road of the Indian Valley Campus of the College of Marin. The campus currently has **eight (8)** walls that are considered failing. **The contract documents details also include details for replacement for street lighting poles that may be impacted by the work.**
4. Bid Proposal Form: Each bid shall be completed on the Bid Proposal Form included in the Contract Documents, and must conform and be fully responsive to this invitation, the plans and specifications and all other Contract Documents. The Contract Documents are available for review at the College of Marin, Indian Valley Campus, 1800 Ignacio Blvd., Administrative Services Building 8, Room 130, in Novato, California. **Note: It is the responsibility of the bidder to make sure that the bid is delivered to the address listed above. Please be informed that UPS does not deliver directly to this physical address.**
5. Bid Security: Each bid shall be accompanied by cash, a cashier's or certified check, or a bidder's bond executed by a surety licensed to do business in the State of California as a surety, made payable to the District, in an amount not less than ten percent (10%) of the maximum amount of the bid. The check or bid bond shall be given as a guarantee that the bidder to whom the contract is awarded shall execute the Contract Documents and will provide the required payment and performance bonds and insurance certificates within ten (10) days after the notification of the award of the Contract.
6. The successful bidder shall comply with the provisions SB 854 of the Labor Code pertaining to payment of the generally prevailing rate of wages and to apprenticeships or other training programs. The Department of Industrial Relations has made available the general prevailing rate of per diem wages in the locality in which the work is to be performed for each craft, classification or type of worker needed to execute the Contract, including employer payments for health and welfare, pension, vacation, apprenticeship and similar purposes. Copies of these prevailing rates are available to any interested party upon request and are online at <http://www.dir.ca.gov/DLSR>. The Contractor and all Subcontractors shall pay not less than the specified rates to all workers employed by them in the execution of the Contract. It is the Contractor's responsibility to determine any rate change.

7. The schedule of per diem wages is based upon a working day of eight hours. The rate for holiday and overtime work shall be at least time and one half.
8. The substitution of appropriate securities in lieu of retention amounts from progress payments in accordance with Public Contract Code §22300 is permitted.
9. Pursuant to Public Contract Code §4104, each bid shall include the name and location of the place of business of each subcontractor who shall perform work or service or fabricate or install work for the contractor in excess of one-half of one percent (1/2 of 1%) of the bid price. The bid shall describe the type of work to be performed by each listed subcontractor.
10. No bid may be withdrawn for a period of sixty (60) days after the date set for the opening for bids except as provided pursuant to Public Contract Code §§5100 *et seq.* The District reserves the right to reject any and all bids and to waive any informalities or irregularities in the bidding.
11. Minority, women, and disabled veteran contractors are encouraged to submit bids. This bid **is not** subject to Disabled Veteran Business Enterprise (DVBE) requirements.
12. Each bidder shall possess at the time the bid is awarded the following classification(s) of California State Contractor's license: **California "A"-General Engineering**
13. Each bidder and any subcontractors must be registered with the California Department of Industrial Relations as a vendor at the time the Bid is awarded.

MARIN COMMUNITY COLLEGE DISTRICT

By: Greg Nelson, Vice President, Finance & College Operations

DATED: August 4, 2016 Publication Dates: 1) August 8, 2016 2) August 15, 2016

1.2 INSTRUCTIONS TO BIDDERS

1. Each bid submitted to the Marin Community College District ("District") for the **Project 413A-2: Indian Valley Campus-Perimeter Road Retaining Walls Repairs/Replacement Phase II #16-0804**, shall be in accordance with the following instructions and requirements, which are part of the Contract Documents for this Project.
2. **Deadline for Receipt of Proposals.** Each bid shall be sealed and submitted to the District Buyer no later than **3:00 p.m. Monday, September 12, 2016**. The District suggests that bids be hand delivered in order to ensure their timely receipt. Any bids received after the time stated, regardless of the reason, shall be returned, unopened, to the bidder. The Buyer office is located at College of Marin, Indian Valley Campus, **1800 Ignacio Boulevard, Building 8, Room 130, in Novato, California, 94949**.
3. **Mandatory Bidders Conference/Walk**. A mandatory bidder's conference/walk will be held on **Wednesday, August 17, 2016 at 2:00 p.m. at the Indian Valley Campus Corporation Yard (Building 22) located at 1800 Ignacio Blvd., Novato, CA 94949**, for the purpose of acquainting all prospective bidders with the Contract Documents and the Project site. It is required that all prospective bidders attend this conference. The failure to attend the conference will result in the disqualification of the bid of the non-attending bidder. Bid Documents will be distributed at the mandatory bidder's conference. Parking permits for the day will also be issued.
4. **Bid Proposal Forms**. All bid proposals shall be made on the form provided by the District. All items on the form shall be filled out in ink. Numbers should be stated in figures, and the signatures of all individuals must be in long hand. The completed form shall be without interlineations, alterations, or erasures.
5. **Execution of Forms**. Each bid must give the full business address of the bidder and must be signed by the bidder or bidder's authorized representative with his or her usual signature. Bids by partnerships must furnish the full names of all partners and must be signed in the partnership name by a general partner with authority to bind the partnership in such matters. Bids by corporations must be signed with the legal name of the corporation, followed by the signature and designation of the president, secretary, or other person authorized to bind the corporation in this matter. The name of each person signing shall also be typed or printed below the signature. When requested by the District, satisfactory evidence of the authority of the officer signing on behalf of the corporation or partnership shall be furnished. A bidder's failure to properly sign required forms may result in rejection of the bid. All bids must include the bidder's contractor license number(s) and expiration date(s).
6. **Bid Security**. Bid proposals shall be accompanied by a certified or cashier's check or bid bond for an amount not less than ten percent (10%) of the bid amount, payable to the District. A bid bond shall be secured from an admitted surety company, licensed in the State of California, and satisfactory to the District. The bid security shall be given as a guarantee that the bidder will enter into the Contract if awarded the work, and in the case of refusal or failure to enter into the Contract within ten (10) calendar days after notification of the award of the Contract or failure to provide the payment and performance bonds and proof of insurance as required by the Contract Documents, the District shall have the right to award the Contract to another bidder and declare the bid security forfeited. The District reserves the right to pursue all other remedies in law or equity relating to such a breach including, but not limited to, seeking recovery of damages for breach of contract. Failure to provide bid security, or bid security in the proper amount, will result in rejection of the bid.

7. Pre-Bid Conference. If a mandatory pre-bid conference and site visit ("Site Visit") is requested as referenced in the Notice to Bidders, then Bidders must sign-in at the pre-bid conference. District will transmit to all prospective Bidders of record such Addenda as District in its discretion considers necessary in response to questions arising at the Site Visit. Oral statements shall not be relied upon and will not be binding or legally effective. Addenda issued by the District as a result of the Site Visit, if any, shall constitute the sole and exclusive record and statement of the results of the Site Visit.

8. Bid Questions. All questions about the meaning or intent of the Contract Documents are to be directed in writing to the District at:

buyer@marin.edu.

Interpretations or clarifications considered necessary by the District in response to such questions will be issued in writing by Addendum.

Questions received after September 1, 2016 may not be answered. Only questions answered by formal written Addendum will be binding. Oral and other interpretations or clarifications will be without legal effect.

9. Addenda or Bulletins. The District reserves the right to issue Addenda or Bulletins prior to the receiving of the bids. Any Addenda or Bulletins issued prior to bid time shall be considered a part of the Contract Documents.

Addenda or Bulletins will be posted to the District website (Fiscal Services/Bid Solicitations/Project). Mandatory pre-bid conference attendees will receive Addenda by either email or by email stating Addendum has been posted to the District website.

10. Addenda Acknowledgement. Each Bidder must acknowledge each Addendum in its Bid Form and Proposal by number or its Bid shall be considered non-responsive. Each Addendum shall be part of the Contract Documents. A complete listing of Addenda may be secured from the District.

11. Alternate Bid Pricing. Each Bidder must include requested pricing for Alternate Bid Items in its Bid Form and Proposal by number or its Bid shall be considered non-responsive.

12. Allowances. An "allowance" means an amount included in the bid proposal for work that may or may not be included in the Project, depending on conditions that will become known only after the Project is underway.

13. Subcontractors. Pursuant to the Subletting and Subcontracting Fair Practices Act, Public Contract Code §§4100-4114, every bidder shall, on the enclosed Subcontractor List Form, set forth:

- a. The name and location of the place of business of each Subcontractor who will perform work or labor or render service to the bidder in or about the work or fabricate and install work in an amount in excess of one-half (1/2) of one percent (1%) of the bidder's total bid.
- b. If the bidder fails to specify a Subcontractor for any portion of the work to be performed under the contract in excess of one-half (1/2) of one percent (1%) of the bidder's total bid, bidder agrees that bidder is fully qualified to and shall perform that portion of the work. The successful bidder shall not, without the written consent of the District or compliance with Public Contract Code §§ 4100 - 4114, either:

- c. Substitute any person as Subcontractor in place of the Subcontractor designated in the original bid;
 - d. Permit any subcontract to be voluntarily assigned or transferred or allow the work to be performed by anyone other than the original Subcontractor listed in the bid; or
 - e. Sublet or subcontract any portion of the work in excess of one-half (1/2) of one percent (1%) of the total bid as to which the bidder's original bid did not designate a Subcontractor.
14. Bonds. The successful bidder shall be required to submit payment and performance bonds as specified in and using the bond forms included with the Contract Documents. All required bonds shall be based on the maximum total contract price as awarded, including additive alternates, if applicable.
15. Withdrawal of Bid Proposals. Bid proposals may be withdrawn by the bidders prior to the time fixed for the receiving of bids, but may not be withdrawn for a period of sixty (60) days after the receiving of bids proposals.
16. Basis of Award. The determination of award shall be based on the lowest responsible, responsive Base Bid. The District shall select any combination or none of the Alternate Bid Pricing for which the District determines pricing to be reasonable and for which funds will be available at the time of award.
17. Rejection of Bids and Award of Contract. The District reserves the right to waive any irregularities in the bid and reserves the right to reject any and all bids. The Contract will be awarded, if at all, within sixty (60) calendar days after the bids are received and reviewed to the "Best Value" responsive bidder, subject to Governing Board approval. The time for awarding the Contract may be extended by the District with the consent of the Best Value bidder.
18. Execution of Contract. The successful bidder shall, within ten (10) calendar days of the Notice of Award of the Contract, sign and deliver to the District the executed Contract along with the bonds and certificates of insurance required by the Contract Documents. In the event the successful bidder fails or refuses to execute the Contract or fails to provide the bonds and certificates as required, the District may declare the bidder's bid deposit or bond forfeited as liquidated damages, and may award the work to the next Best Value responsible, responsive bidder, or may reject all bids and, in its sole discretion, call for new bids. In all cases, the District reserves the right, without any liability, to cancel the award of Contract at any time prior to the full execution of the Contract.
19. Drawings and Specifications. All drawings, specifications and other documents prepared during the project shall be the exclusive property of the District.
20. Evidence of Responsibility. Upon the request of the District, a bidder shall submit promptly to the District satisfactory evidence showing the bidder's financial resources, the bidder's experience in the type of work being required by the District, the bidder's availability to perform the Contract and any other required evidence of the bidder's qualifications to perform the Contract and any other required evidence of the bidder's qualifications and responsibility to perform the Contract. The District may consider such evidence before making its decision to award the Contract. Failure to submit requested evidence may result in rejection of the bid.

21. Taxes. Applicable taxes shall be included in the bid prices.
22. Bid Exceptions. Bid exceptions are not allowed. If the bidder has a comment regarding the bid documents or the scope of work, the bidder shall submit those comments to the District for evaluation at least five working days prior to the receiving of the bids. No oral or telephonic modification of any bid submitted will be considered and a sealed written modification may be considered only if received prior to receiving of bids. E-mailed or faxed bids or modifications will not be accepted.
23. Discounts. Any discounts which the bidder desires to provide the District must be stated clearly on the bid form itself so that the District can calculate the net cost of the bid proposal. Offers of discounts or additional services not delineated on the bid form will not be considered by the District in the determination of the best value responsible responsive bidder.
24. Quantities. The quantities shown on the plans and specifications are approximate. The District reserves the right to increase or decrease quantities as desired.
25. Prices. Bidders must quote prices Freight on Board (F.O.B.) unless otherwise noted. Prices should be stated in the units specified and bidders should quote each item separately.
26. Samples. On request, samples of the products being bid shall be furnished to the District.
27. Special Brand Names/Substitutions. In describing any item, the use of a manufacturer or special brand does not restrict bidding to that manufacturer or special brand, but is intended only to indicate quality and type of item desired, except as provided in §3400 of the Public Contract Code. Substitute products will be considered either prior to or after the award of the Contract in accordance with §3400 and as set forth in either the Supplemental Conditions or the Specifications. All data substantiating the proposed substitute as an "equal" item shall be submitted with the written request for substitution. The District reserves the right to make all final decisions on product and vendor selection.
28. Container Costs and Delivery. All costs for containers shall be borne by the bidder. All products shall conform to the provisions set forth in the federal, county, state and city laws for their production, handling, processing and labeling. Packages shall be so constructed in ensure safe transportation to point of delivery.
29. Bid Negotiations. A bid response to any specific item of this bid using terms such as "negotiable," "will negotiate," or similar, will be considered non-responsive.
30. Prevailing Law. In the event of any conflict or ambiguity between these instructions and state or federal law or regulations, the latter shall prevail. All equipment to be supplied or services to be performed under the bid proposal shall conform to all applicable requirements of local, state and federal law, including, but not limited to, Labor Code §§1771, 1778 and 1779.
31. Examination of Contract Documents and Work Site. Before submitting a bid proposal, all bidders shall carefully examine the Contract Documents, including specifications, shall visit the site of the proposed work, and shall fully inform themselves of all conditions in and about the work site, as well as applicable federal, state and local laws and regulations that may affect the work. No bidder shall visit the site without prior authorization of the District. Bidders shall contact the Director of Maintenance and Operations for coordination of site visits.
32. Form and Approval of Contract. The Contract Documents must be approved by the Governing Board of the District and its legal counsel. The bidder selected by the District shall execute the Contract provided by the District.

33. Licenses and Permits. Each bidder, and its Subcontractors, if any, shall at all times possess all appropriate and required licenses or other permits to perform the work as identified in the Contract Documents. Upon request, each bidder shall furnish the District with evidence demonstrating possession of the required licenses or permits.
34. Denial of Right to Bid. Contractors or Subcontractors who have violated state law governing public works shall be denied the right to bid on this public works contract pursuant to California Labor Code § 1777.7.
35. Bidders Interested in More Than One Bid. No person, firm, or corporation shall make, or file, or be interested in more than one bid. However, a person, firm, or corporation that has submitted a sub-proposal to a bidder, or that has quoted prices of materials to a bidder, is not thereby disqualified from submitting a sub-proposal or quoting prices to other bidders or from submitting a prime proposal.
36. Contractor's State License Board. Contractors and Subcontractors are required by law to be licensed and regulated by the California Contractors' License Board.
37. Bid Protest. Any bid protest must be in writing and received by the District Office before 5:00 p.m. no later than three (3) working days following bid awarding and must comply with the following requirements:
 - a. The bid protest must contain a complete statement of the basis for the protest, and all supporting documentation.
 - b. The party filing the protest must have actually submitted a bid for the Project. A Subcontractor of a bidder submitting a bid for the Project may not submit a bid protest. A bidder may not rely on the bid protest submitted by another bidder, but must timely pursue its own protest.
 - c. The protest must refer to the specific portion or portions of the Contract Documents upon which the protest is based.
 - d. The protest must include the name, address and telephone number of the person representing the protesting bidder.
 - e. The bidder filing the protest must concurrently transmit a copy of the bid protest and all supporting documentation to all other bidders with a direct financial interest which may be affected by the outcome of the protest, including all other bidders who appear to have a reasonable prospect of receiving an award depending upon the outcome of the protest.
 - f. The bidder whose bid has been protested may submit a written response to the bid protest. Such response shall be submitted to the District before 5 p.m., no later than two (2) working days after the deadline for submission of the bid protest or other receipt of the bid protest, whichever is sooner, and shall include all supporting documentation. Such response shall also be transmitted concurrently to the protesting bidder and to all other bidders who appear to have a reasonable prospect of receiving an award depending upon the outcome of the protest.
 - g. The procedure and time limits set forth in this section are mandatory and are the bidder's sole and exclusive remedy in the event of bid protest. The bidder's failure to

comply with these procedures shall constitute a waiver of any right to further pursue the bid protest, including filing a Government Code Claim or legal proceedings.

- h. If the District determines that a protest is frivolous, the protesting bidder may be determined to be non-responsible and that bidder may be determined to be ineligible for future contract awards by the District.
- i. A “working day” for purposes of this section means a weekday during which the District’s office is open and conducting business, regardless of whether or not school is in session.

1.3 BID PROPOSAL FORM

Governing Board

Marin Community College District

Dear Members of the Governing Board:

The undersigned, doing business under the name of:

having carefully examined the location of the proposed work, the local conditions of the place where the work is to be done, the Notice Inviting Bids, the General Conditions, the Instructions to Bidders, the Plans and Specifications, and all other Contract Documents for the proposed **Project 413A-2: Indian Valley Campus-Perimeter Road Retaining Walls Repairs/Replacement Phase II #16-0804** ("Project"), and having accurately completed the Bidder's Questionnaire, proposes to perform all work and activities in accordance with the Contract Documents, including all of its component parts, and to furnish all required labor, materials, equipment, transportation and services required for the performance of the Project in strict conformity with the Contract Documents, including the Plans and Specifications as follows:

BASE BID (include a \$10,000.00 Allowance as described below):

For the sum of:

_____ Dollars

(\$ _____)

Allowance: The Bidder's Base Bid shall include an Allowance of an additional \$10,000.00 for unforeseen items.

The \$10,000.00 Allowance shall only be allocated for unforeseen items relating to the Work. Contractor shall not bill for or be sure any portion of the Allowance unless the District has identified specific work, Contractor has submitted a price for that work or the District has proposed a price for that work, the District has accepted the cost for that work, and the District has prepared a change order incorporating that work. Contractor hereby authorizes the District to execute a unilateral deductive change order at or near the end of the Project for all or any portion of the Allowance not allocated.

ALTERNATES:

DEDUCTIVE

ALTERNATE #1: Delete Wall #11
Delete the replacement of Wall #11

DEDUCT _____ Dollars

\$ (_____)

Unit Prices: The Bidder's Base Bid includes the following unit prices, which the Bidder must provide and the District may, at its discretion, utilize in valuing additive and/or deductive Change Orders:

Item Description	Unit	Unit Price (Figures and Numbers)
Removal AC pavement (Road)	SF	
Installation of 2" AC Overlay (Road)	SF	
Installation of 2" AC w/ 3" compacted 95% Base (Road)	SF	
Off haul and handling of soil- (assume non-contaminated)	Ton	

The undersigned has checked carefully all the above figures and understands that the District is not responsible for any errors or omissions on the part of the undersigned in making this bid.

Enclosed find certified or cashier's check No. _____ of the _____ Bank
 For _____ Dollars
 (\$ _____)

or Bidder's Bond of the _____ surety company in an amount of not less than ten percent (10%) of the entire bid. The undersigned further agrees, on the acceptance of this proposal, to execute the Contract and provide the required bonds and insurance, and that in case of default in executing these documents within the time fixed by the Contract Documents, the proceeds of the check or bond, accompanying this bid, shall be forfeited and shall become the property of the District.

The undersigned has reviewed the Work outlined in the Contract Documents and fully understands the scope of Work required in this Proposal, understands the construction and project management function(s) is described in the Contract Documents, and that each Bidder who is awarded a contract shall be in fact a prime contractor, not a subcontractor, to the District, and agrees that its Proposal, if accepted by the District, will be the basis for the Bidder to enter into a contract with the District in accordance with the intent of the Contract Documents.

The undersigned has notified the District in writing of any discrepancies or omissions or of any doubt, questions, or ambiguities about the meaning of any of the Contract Documents, and has contacted the Construction Manager before bid date to verify the issuance of any clarifying Addenda.

Contractor agrees to commence the work within the time specified in the Notice to Proceed. It is understood that this bid is based upon completing the work within the number of calendar days or by the date specified in the Contract Documents.

The liquidated damages clause of the General Conditions and Agreement is hereby acknowledged. It is understood that the District reserves the right to reject this bid and that the bid shall remain open to acceptance and is irrevocable for a period of ninety (90) days.

Bidder acknowledges that the license required for performance of the Work is an **A** license.

The undersigned hereby certifies that Bidder is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the Work.

The undersigned Bidder certifies that it is, at the time of bidding, and shall be throughout the period of the contract, licensed by the State of California to do the type of work required under the terms of the Contract Documents and registered as a public works contractor with the Department of Industrial Relations. Bidder further certifies that it is regularly engaged in the general class and type of work called for in the Contract Documents.

Bidder specifically acknowledges and understands that if it is awarded the Contract, that it shall perform the Work of the Project while complying with all requirements of the Department of Industrial Relations.

The Bidder represents that it is competent, knowledgeable, and has special skills with respect to the nature, extent, and inherent conditions of the Work to be performed. Bidder further acknowledges that there are certain peculiar and inherent conditions existent in the construction of the Work that may create, during the Work, unusual or peculiar unsafe conditions hazardous to persons and property.

Bidder expressly acknowledges that it is aware of such peculiar risks and that it has the skill and experience to foresee and to adopt protective measures to adequately and safely perform the Work with respect to such hazards.

Bidder expressly acknowledges that it is aware that if a false claim is knowingly submitted (as the terms "claim" and "knowingly" are defined in the California False Claims Act, Cal. Gov. Code, §12650 et seq.), the District will be entitled to civil remedies set forth in the California False Claim Act. It may also be considered fraud and the Contractor may be subject to criminal prosecution.

Furthermore, Bidder hereby certifies to the District that all representations, certifications, and statements made by Bidder, as set forth in this bid form, are true and correct and are made under penalty of perjury.

ADDENDA:

Receipt of the following addenda is hereby acknowledged:

Addendum # _____ Dated: _____ Addendum # _____ Dated: _____

Addendum # _____ Dated: _____ Addendum # _____ Dated: _____

Respectfully Submitted,

Dated this _____ day of _____ 20 ____

Name of Bidder _____

Type of Organization _____

Signed by _____

Title of Signer _____

Address of Bidder _____

Taxpayer's Identification No. of Bidder _____

Telephone Number _____

Fax Number _____

E-mail _____ Web page _____

Contractor's License No(s): No.: _____ Class: _____ Expiration Date: _____

No.: _____ Class: _____ Expiration Date: _____

No.: _____ Class: _____ Expiration Date: _____

Public Works Contractor Registration No.: _____

If Bidder is a corporation, affix corporate seal.

Name of Corporation: _____

President: _____

Secretary: _____

Treasurer: _____

Manager: _____

END OF DOCUMENT

Required Attachments:

- Subcontractor List Form
- Worker's Compensation Certificate
- Non-Collusion Affidavit
- Bid Bond (or Cashier's or Certified Check)
- Bidder's Questionnaire

1.4 BID BOND

To be completed by bidder and submitted with bid.

We, the Contractor, _____ as principal ("Principal"), and

_____, as surety ("Surety") are firmly bound unto the Marin Community College District ("District"), in the penal sum of ten percent (10%) of the total amount of the bid of the Principal submitted to the District for the work described below for the payment of which sum in lawful money of the United States, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by this agreement.

Whereas, the Principal has submitted the accompanying bid ("Bid") dated _____, for the following project ("Project"): **Project 413A-2: Indian Valley Campus-Perimeter Road Retaining Walls Repairs/Replacement Phase II #16-0804,**

Now, therefore, if the Principal does not withdraw its Bid within the period specified, and if the Principal is awarded the Contract and within the period specified fails to enter into a written contract with District, in accordance with the Bid as accepted, or fails to provide the proof of required insurance, performance bond and/or the payment bond by an admitted surety within the time required, or in the event of unauthorized withdrawal of the Bid, if the Principal pays the District the difference between the amount specified in the Bid and the amount for which District may procure the required work and/or supplies, if the latter amount is in excess of the former, together with all related costs incurred by District, then the above obligation shall be void and of no effect. Otherwise, the Principal and Surety shall pay to the District the penal sum described above as liquidated damages.

Surety, for value received, hereby agrees that no change, extension of time, alteration or addition to the term of the Contract or the call for bids, or to the work to be performed thereunder, or the Specifications accompanying the same, shall in any way affect its obligation under this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition.

In witness whereof the above-bound parties have executed this instrument under their several seals this _____ day of _____, 20__, the name and corporate seal of each corporate Party being hereunder affixed and these presents duly signed by its undersigned representative, pursuant to the authority of its governing body.

(Corporate Seal)

Principal/Contractor

By _____

Title _____

(Corporate Seal)

Surety

Attach Attorney-In-Fact

By _____

Certificate

Title _____

To be signed by Principal and Surety and Acknowledgment and Notary Seal to be attached.

1.5 SUBCONTRACTOR LIST FORM

This document to be completed and submitted with bid.

Each Bidder shall list below the name and location of place of business for each Subcontractor who will perform a portion of the Contract work in an amount in excess of 1/2 of 1 percent of the total contract price. The nature of the work to be subcontracted shall be described.

DESCRIPTION OF WORK	SUBCONTRACTOR NAME	SUBCONTRACTOR'S LICENSE	LOCATION OF BUSINESS

1.6 NONCOLLUSION AFFIDAVIT

To be executed by bidder and submitted with bid.

State of California
County of (_____)

_____, being first duly sworn, deposes and says that he or she is _____ of _____ the party making the foregoing bid, and affirms that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true and correct; and, further, that the bidder has not, directly or indirectly, submitted his or her bid 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 bid.

I certify (or declare) under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Date: _____
Signature _____

State of _____, County of _____

On _____ before me, _____, personally appeared

personally known to me or 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.

WITNESS my hand and official seal.

Signature of Notary Public

1.7 WORKERS' COMPENSATION CERTIFICATE

This document to be completed and submitted with bid

Labor Code §3700 in relevant part provides:

"Every employer except the State shall secure the payment of compensation in one or more of the following ways:

- (a) By being insured against liability to pay compensation in one or more insurers duly authorized to write compensation insurance in this State.
- (b) Be 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 his employees."

I am aware of the provisions of §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 this Contract and will require all Subcontractors to do the same.

Contractor

By: _____

In accordance with Article 5 (commencing at §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 this Contract.

**1.8 PREVAILING WAGE AND
RELATED LABOR REQUIREMENTS CERTIFICATION**

PROJECT/CONTRACT NO.: **Project 413A-2: Indian Valley Campus-Perimeter Road Retaining Walls Repairs/Replacement Phase II #16-0804** ("Contract" or "Project") between Marin Community College_District ("District") and _____
_____ ("Contractor" or "Bidder").

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-hour notice, payroll records, and apprentice and trainee employment requirements, for all Work on the above Project including, without limitation, the labor compliance program, if this Project is subject to a labor compliance program.

~~[IF THIS PROJECT USES FEDERAL FUNDS, DISTRICT SHOULD INCLUDE THE FOLLOWING]~~

~~I hereby certify that I will also conform to the Federal Labor Standards Provisions regarding minimum wages, withholding, payrolls and basic records, apprentice and trainee employment requirements, equal employment opportunity requirements, Copeland Act requirements, Davis-Bacon and Related Act requirements, Contract Work Hours and Safety Standards Act requirements, and any and all other applicable requirements for federal funding for all Work on the above Project.~~

Date: _____

Proper Name of Contractor: _____

Signature: _____

Print Name: _____

Title: _____

END OF DOCUMENT

1.9 DRUG-FREE WORKPLACE CERTIFICATION

PROJECT/CONTRACT NO.: **Project 413A-2: Indian Valley Campus-Perimeter Road Retaining Walls Repairs/Replacement Phase II #16-0804** ("Contract" or "Project") between Marin Community College_District ("District") and _____ ("Contractor" or "Bidder").

This Drug-Free Workplace Certification form is required from the successful Bidder 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.

Contractor shall certify that it will provide a drug-free workplace by doing all of the following:

- a. 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.
- b. Establishing a drug-free awareness program to inform employees about all of the following:
 - (1) The dangers of drug abuse in the workplace.
 - (2) The person's or organization's policy of maintaining a drug-free workplace.
 - (3) The availability of drug counseling, rehabilitation, and employee-assistance programs.
 - (4) The penalties that may be imposed upon employees for drug abuse violations.
- c. 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 the aforementioned Act.

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: _____

Proper Name of Contractor: _____

Signature: _____

Print Name: _____

Title: _____

END OF DOCUMENT

1.10 TOBACCO-FREE ENVIRONMENT CERTIFICATION

PROJECT/CONTRACT NO.: **Project 413A-2: Indian Valley Campus-Perimeter Road Retaining Walls Repairs/Replacement Phase II #16-0804** ("Contract" or "Project") between Marin Community College_District ("District") and _____ ("Contractor" or "Bidder").

This Tobacco-Free Environment Certification form is required from the successful Bidder.

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: _____

Proper Name of Contractor: _____

Signature: _____

Print Name: _____

Title: _____

END OF DOCUMENT

1.11 HAZARDOUS MATERIALS CERTIFICATION

PROJECT/CONTRACT NO.: **Project 413A-2: Indian Valley Campus-Perimeter Road Retaining Walls Repairs/Replacement Phase II #16-0804** ("Contract" or "Project") between Marin Community College_District ("District") and _____ ("Contractor" or "Bidder").

1. Contractor 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 Contractor's work on the Project for District.
2. Contractor 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 (0.1%) 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 Contractor 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 Contractor's expense at no additional cost to the District.
6. Contractor has read and understood the document Hazardous Materials Procedures & Requirements, and shall comply with all the provisions outlined therein.

Date: _____

Proper Name of Contractor: _____

Signature: _____

Print Name: _____

Title: _____

END OF DOCUMENT

1.12 LEAD-BASED MATERIALS CERTIFICATION

PROJECT/CONTRACT NO.: **Project 413A-2: Indian Valley Campus-Perimeter Road Retaining Walls Repairs/Replacement Phase II #16-0804** ("Contract" or "Project") between Marin Community College_District ("District") and _____ ("Contractor" or "Bidder").

This certification provides notice to the Contractor that:

- (1) Contractor's work may disturb lead-containing building materials.
- (2) Contractor shall notify the District if any work may result in the disturbance of lead-containing building materials.
- (3) Contractor shall comply with the Renovation, Repair and Painting Rule, if lead-based paint is disturbed in a six-square-foot or greater area indoors or a 20-square-foot or greater area outdoors.

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 Contractor and its employees will be providing services for the District, and because the Contractor'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 1978 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 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, § 32241.)

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 Contractor, 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).

END OF DOCUMENT

1.13 CONTRACTOR W-9

Form (Rev. August 2013) Department of the Treasury Internal Revenue Service	<h2 style="margin:0;">Request for Taxpayer Identification Number and Certification</h2>	Give Form to the requester. Do not send to the IRS.
Print or type See Specific instructions on page 2.	Name (as shown on your income tax return)	
	Business name/disregarded entity name, if different from above	
	Check appropriate box for federal tax classification: <input type="checkbox"/> Individual/sole proprietor <input type="checkbox"/> C Corporation <input type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____ <input type="checkbox"/> Other (see instructions) ▶ _____	Exemptions (see instructions): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____
	Address (number, street, and apt. or suite no.)	Requester's name and address (optional)
	City, state, and ZIP code	Marin Community College District 1800 Ignacio Blvd Novato CA 94949-4912
List account number(s) here (optional)		

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on the "Name" line to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Social security number								
<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%; border: 1px solid black; height: 20px;"></td> </tr> <tr> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> </tr> </table>					-	-	-	-
-	-	-	-					
Employer identification number								
<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%; border: 1px solid black; height: 20px;"></td> </tr> <tr> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> <td align="center">-</td> </tr> </table>					-	-	-	-
-	-	-	-					

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
- I am a U.S. citizen or other U.S. person (defined below), and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here	Signature of U.S. person ▶	Date ▶
------------------	----------------------------	--------

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. The IRS has created a page on www.irs.gov/w9 for information about Form W-9, at www.irs.gov/w9. Information about any future developments affecting Form W-9 (such as legislation enacted after we release it) will be posted on that page.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, payments made to you in settlement of payment card and third party network transactions, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
- Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct.

Note. If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

1.14 BIDDER'S QUESTIONNAIRE

To be completed by bidder and submitted with bid.

Project 413A-2: Indian Valley Campus-Perimeter Road Retaining Walls Repairs/Replacement Phase II #16-0804

TO THE BIDDER:

In making its award the Governing Board will take into consideration Bidder's experience, financial responsibility and capability. The following questionnaire is a part of the bid. Any bid received without this completed questionnaire may be rejected as nonresponsive. The Board will use, but will not be limited to, the information provided herein for evaluating the qualifications and responsibility of the bidder and the bidder's organization to carry out satisfactorily the terms of the Contract Document. The questionnaire must be filled out accurately and completely and submitted with the bid. Any errors, omissions or misrepresentation of information may be considered as a basis for the rejection of the bid and may be grounds for the termination of any subsequent contract executed as a result of the bid.

A. Description of Bidder's Organization

1. Firm Name _____

2. Address _____

3. Telephone Number _____

4. Type of Organization

a. Corporation? Yes ____ No ____

If yes, list officers and positions, and the State in which incorporated.

If the Bidder corporation is a subsidiary, give name and address of parent corporation:

b. Partnership? Yes ____ No ____

If yes, list partner's names and addresses

General Partners:

Limited Partners:

c. Individual Proprietorship? Yes ____ No ____

If yes, list name and address of proprietor:

B. Nature of Operations

1. How long have you been engaged in the contracting business under your present business name? _____
2. How many years of experience does your business have in General Engineering or work similar to that called for under this bid? _____
3. Do you currently have contracts, or have you ever contracted, to provide General Engineering services for any school district, community college district or county office of education in the State of California? Yes ____ No ____

a. If "yes," on a separate attached sheet, provide the following information for all General Engineering projects you have had with school districts, community college districts, or county offices of education during the last four (4) years:

1. Year contract awarded
2. Type of work
3. Contract completion time called for/actual completion time
4. Contract price
5. For whom performed, including person to call for reference and telephone number
6. Location of work
7. Number of stop notices filed
8. For each contract, list any lawsuits filed relating to that contract in which you were a defendant or plaintiff
9. Amount of liquidated damages assessed

b. On a separate attached sheet, provide the following information for all General Engineering contracts of a similar nature as called for in this bid that you have had with entities other than school districts, community college districts and county offices of education during the last four (4) years:

1. Year contract awarded
2. Type of work
3. Contract completion time called for/actual completion time
4. Contract price

5. For whom performed, including person to call for reference and telephone number
 6. Location of work
 7. Number of stop notices filed
 8. For each contract list any lawsuits filed relating to that contract in which you were a defendant or plaintiff
 9. Amount of liquidated damages assessed
- c. For each General Engineering contract that you have failed to complete within the contract time in the last four (4) years, please state the reasons for the untimely performance.

C. Financial and Credit Data

1. If your bid is considered for award, and if requested by the District, will you supply the following data? Yes ____ No ____
 - a. Names and addresses of any banks where you regularly do business.
 - b. The names and addresses of any banks, finance companies, dealers, suppliers, or others where you have notes or loans.
 - c. Give credit references, including at least three trade or industry suppliers with whom you regularly deal.
2. Will you submit on request a balance sheet for the past three (3) years? Yes ____ No ____
3. Where have you engaged in the General Engineering business or any other type of business in the last five (5) years?

<u>Name of Business</u>	<u>Location</u>	<u>Type of Business</u>	<u>Years in Business</u>
-------------------------	-----------------	-------------------------	--------------------------

If any of the business endeavors referred to above are no longer operating, or you are no longer associated with them, please give brief details:

4. The following surety companies may be contacted as references as to the financial responsibility and general reliability of the bidder:

Surety Name

Contact Person

Phone Number

I certify under penalty of perjury that the foregoing is true and correct. Executed at _____, California, on _____, 20__.

Signature of Bidder _____

Name (*print*) _____

1.15 NOTICE OF AWARD

Dated: _____ 20__

To: _____
(Contractor)

To: _____
(Address)

From: Governing Board ("Board") of Marin Community College District ("District" or "Owner")

PROJECT: _____
("Project" or "Contract").

Contractor has been awarded the referenced Contract on _____, 20__, by action of the District's Board.

The Contract Price is _____ Dollars (\$ _____), and includes Alternates _____, inclusive of an allowance of \$10,000 for unforeseen conditions.

You are required by the General Conditions to execute the following:

- 2 copies of the Agreement (The District will insert date when fully executed)
- W-9 Request for Tax-payer Identification Number
- Performance Bond (100%): On the form provided on the Contract Documents and fully executed as indicated on the form.
- Payment Bond (Contractor's Labor & Material Bond) (100%): On the form provided in the Contract Documents and fully executed as indicated on the form.
- Certificates of Insurance with endorsements
- Proof of Contractor and all tier subcontractor DIR vendor registrations

within ten (10) days from the date of receipt of this Notice.

If you fail to execute the Agreement and furnish the items listed above within ten (10) days from the date of receipt of this Notice, District will be entitled to consider all your rights arising out of its acceptance of your bid as abandoned and as a forfeiture of your Bid Bond. The District will be entitled to such other rights as may be granted by law.

By _____
Greg Nelson, Vice President of Finance & College Operations

cc. Fiscal Services
Heidi Rank, Director of M&O

for the contingencies provided for herein, the Contractor shall become liable to the District for all loss and damage that the District may suffer on account thereof. The Contractor shall coordinate its work with the Work of all other contractors. The District shall not be liable for delays resulting from Contractor's failure to coordinate its Work with other contractors in a manner that will allow timely completion of Contractor's Work. Contractor shall be liable for delays to other contractors caused by Contractor's failure to coordinate its Work with the work of other contractors.

6. **Liquidated Damages:** Time is of the essence for all work under this Agreement. 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 Contractor's delay; therefore, Contractor agrees that it shall pay to the District the sum of **Two-Hundred Dollars (\$200)** per day as liquidated damages for each and every day's delay beyond the time herein prescribed in finishing the Work.

It is hereby understood and agreed that this amount is not a penalty.

In the event any portion of the liquidated damages are not paid to the District, the District may deduct that amount from any money due or that may become due the Contractor under this Agreement. The District's right to assess liquidated damages is as indicated herein and in the General Conditions.

The time during which the Contract is delayed for cause as hereinafter specified may extend the time of completion 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 the Contract Documents.

7. **Loss Or Damage:** The District and its authorized representatives shall not in any way or manner be answerable or suffer loss, damage, expense, or liability for any loss or damage that may happen to the Work, or any part thereof, or in or about the same during its construction and before acceptance, and the Contractor shall assume all liabilities of every kind or nature arising from the Work, either by accident, negligence, theft, vandalism, or any cause whatever; and shall hold the District and its authorized representatives harmless from all liability of every kind and nature arising from accident, negligence, or any cause whatever.
8. **Insurance and Bonds:** Before commencing the Work, Contractor shall provide all required certificates of insurance, and payment and performance bonds as evidence thereof.
9. **Prosecution of Work:** If the Contractor should neglect to prosecute the Work properly or fail to perform any provisions of this contract, the District, may, pursuant to the General Conditions and 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 Contractor.
10. **Authority of Engineer, Project Inspector, and DSA:** Contractor hereby acknowledges that the District or its Engineer, ~~Architect(s), the Project Inspector(s), and the Division of the State Architect~~ has authority to approve and/or stop Work if the Contractor's Work does not comply with the requirements of the Contract Documents, Title 24 of the California Code of Regulations, and all applicable laws. The Contractor shall be liable for any delay caused by its non-compliant Work.

11. **Assignment of Contract:** Neither the Contract, nor any part thereof, nor any moneys due or to become due thereunder, may be assigned by the Contractor without the written approval of the District, nor without the written consent of the Surety on the Contractor's Performance Bond (the "Surety"), unless the Surety has waived in writing its right to notice of assignment.
12. **Classification of Contractor's License:** Contractor hereby acknowledges that it currently holds valid Type **A** Contractor's license(s) issued by the State of California, Contractor's State Licensing Board, in accordance with division 3, chapter 9, of the Business and Professions Code and in the classification called for in the Contract Documents.
13. **Payment of Prevailing Wages:** The Contractor and all Subcontractors under the Contractor shall pay all workers on all Work performed pursuant to this Contract not less than the general prevailing rate of per diem wages and the general prevailing rate for holiday and overtime work as determined by the Director of the Department of Industrial Relations, State of California, for the type of work performed and the locality in which the work is to be performed within the boundaries of the District, pursuant to sections 1770 et seq. of the California Labor Code. ~~{If Project is funded in whole or in part with federal funds, the Contractor and all Subcontractors under the Contractor shall comply with the Davis Bacon Act, applicable reporting requirements, and any other applicable requirements for federal funding. If a conflict exists, the more stringent provision shall control over this Agreement.}~~
14. ~~{Labor Compliance: If the District has adopted a labor compliance program which is applicable to the Project or if the Project is subject to State labor compliance monitored and enforced by the Compliance Monitoring Unit of the Department of Industrial Relations, Contractor specifically acknowledges and understands that it shall perform the Work of this Agreement while complying with all the applicable provisions of the District's labor compliance program or State labor compliance, if applicable, including, without limitation, the requirement that the Contractor and all of its Subcontractors shall timely submit complete and accurate certified payroll records as required by the Contract Documents, or the District cannot issue payment.}~~
15. **Contract Price:** In consideration of the foregoing covenants, promises, and agreements on the part of the Contractor, and the strict and literal fulfillment of each and every covenant, promise, and agreement, and as compensation agreed upon for the Work and construction, erection, and completion as aforesaid, the District covenants, promises, and agrees that it will well and truly pay and cause to be paid to the Contractor in full, and as the full Contract Price and compensation for construction, erection, and completion of the Work hereinabove agreed to be performed by the Contractor, the following price:

Dollars

_____ (\$ _____),

in lawful money of the United States, which sum is to be paid according to the schedule provided by the Contractor and accepted by the District and subject to additions and deductions as provided in the Contract. This amount supersedes any previously stated and/or agreed to amount(s).

16. **Severability:** If any term, covenant, condition, or provision in any of the Contract Documents is held by a court of competent jurisdiction to be invalid, void or unenforceable,

the remainder of the provisions in the Contract Documents shall remain in full force and effect and shall in no way be affected, impaired, or invalidated thereby.

IN WITNESS WHEREOF, accepted and agreed on the date indicated above:

CONTRACTOR

DISTRICT

MARIN COMMUNITY COLLEGE DISTRICT

By: _____

By: _____

Title: _____

Title: _____

NOTE: If the party executing this Contract is a corporation, a certified copy of the by-laws, or of the resolution of the Board of Trustees, authorizing the officers of said corporation to execute the Contract and the bonds required thereby must be attached hereto.

END OF DOCUMENT

1.17 NOTICE TO PROCEED

Dated: _____, 20__

TO: _____
("Contractor")

ADDRESS: _____

PROJECT: _____

PROJECT/CONTRACT NO.: _____ between the Marin Community College District and Contractor ("Contract").

You are notified that the Contract Time under the above Contract will commence to run on _____, 20__. By that date, you are to start performing your obligations under the Contract Documents. In accordance with the Agreement executed by Contractor, the date of completion is _____, 20__.

You must submit the following documents by 5:00 p.m. of the **(TENTH (10th)** calendar day following the date of this Notice to Proceed:

- a. Contractor's preliminary schedule of construction.
- b. Contractor's preliminary schedule of values for all of the Work.
- c. Contractor's preliminary schedule of submittals, including Shop Drawings, Product Data, and Samples submittals
- d. Contractor's Safety Plan specifically adapted for the Project.
- e. A complete subcontractors list, including the name, address, telephone number, facsimile number, California State Contractors License number, classification, and monetary value of all Subcontracts.

Thank you. We look forward to a very successful Project.

MARIN COMMUNITY COLLEGE DISTRICT

BY: _____

NAME: _____

TITLE: _____

END OF DOCUMENT

1.18 PERFORMANCE BOND
(100% of Contract Price)

(Note: Bidders must use this form, NOT a surety company form.)

KNOW ALL PERSONS BY THESE PRESENTS:

WHEREAS, the governing board ("Board") of the Marin Community College 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:

_____ (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.

Surety expressly agrees that the District may reject any contractor or subcontractor proposed by Surety to fulfill its obligations in the event of default by the Principal. Surety shall not utilize Principal in completing the Work nor shall Surety accept a Bid from Principal for completion of the Work if the District declares the Principal to be in default and notifies Surety of the District's objection to Principal's further participation in the completion of the Work.

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

and replacements 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 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 or the specifications accompanying the same 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 terms of the Contract or to the work or to the specifications.

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__.

(Affix Corporate Seal)

Principal

By

Surety

By

Name of California Agent of Surety

Address of California Agent of Surety

Telephone No. of California Agent of Surety

Bidder 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

1.19 PAYMENT BOND
Contractor's Labor & Material Bond
(100% of Contract Price)

(Note: Bidders must use this form, NOT a surety company form.)

KNOW ALL PERSONS BY THESE PRESENTS:

WHEREAS, the governing board ("Board") of the Marin Community College District, (or "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:

_____ (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, pursuant to law and the Contract, the Principal is required, before entering upon the performance of the work, to file a good and sufficient bond with the body by which the Contract is awarded in an amount equal to one hundred percent (100%) of the Contract price, to secure the claims to which reference is made in sections 9000 through 9510 and 9550 through 9566 of the Civil Code, and division 2, part 7, of the Labor Code.

NOW, THEREFORE, the Principal and _____ ("Surety")

are held and firmly bound unto all laborers, material men, and other persons referred to in said statutes in the sum of _____

Dollars (\$_____), lawful money of the United States, being a sum not less than the total amount payable by the terms of Contract, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, or assigns, jointly and severally, by these presents.

The condition of this obligation is that if the Principal or any of his or its subcontractors, of the heirs, executors, administrators, successors, or assigns of any, all, or either of them shall fail to pay for any labor, materials, provisions, provender, or other supplies, used in, upon, for or about the performance of the work contracted to be done, or for any work or labor thereon of any kind, or for amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of the Principal or any of his or its subcontractors of any tier under Section 13020 of the Unemployment Insurance Code with respect to such work or labor, that the Surety will pay the same in an amount not exceeding the amount herein above set forth, and also in case suit is brought upon this bond, will pay a reasonable attorney's fee to be awarded and fixed by the Court, and to be taxed as costs and to be included in the judgment therein rendered.

It is hereby expressly stipulated and agreed that this bond shall inure to the benefit of any and all persons, companies, and corporations entitled to file claims under section 9100 of the Civil Code, so as to give a right of action to them or their assigns in any suit brought upon this bond.

Should the condition of this bond be fully performed, then this obligation shall become null and void; otherwise it shall be and remain in full force and affect.

And the Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of Contract or the specifications accompanying the same shall in any manner affect its obligations on this bond, and it does hereby waive notice of any such change, extension, alteration, or addition.

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____.

(Affix Corporate Seal)

Principal

By

Surety

By

Name of California Agent of Surety

Address of California Agent of Surety

Telephone No. of California Agent of Surety

Bidder 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

1.20 AGREEMENT AND RELEASE OF ANY AND ALL CLAIMS

THIS AGREEMENT AND RELEASE OF CLAIMS ("Agreement and Release") IS MADE AND ENTERED INTO THIS _____ DAY OF _____, 20__ by and between the MARIN COMMUNITY COLLEGE DISTRICT ("District") and _____ ("Contractor"), whose place of business is _____.

RECITALS:

1. District and Contractor entered into PROJECT/CONTRACT NO.: _____ ("Contract" or "Project") in the County of _____, California.
2. The Work under the Contract has been completed.

NOW, THEREFORE, it is mutually agreed between District and Contractor as follows:

AGREEMENT

3. Contractor will only be assessed liquidated damages as detailed below:

Original Contract Sum \$ _____
Modified Contract Sum \$ _____
Payment to Date \$ _____
Liquidated Damages \$ _____
Payment Due Contractor \$ _____

4. Subject to the provisions hereof, District shall forthwith pay to Contractor the undisputed sum of _____ Dollars (\$_____) under the Contract, less any amounts represented by any notice to withhold funds on file with District as of the date of such payment.

5. Contractor acknowledges and hereby agrees that there are no unresolved or outstanding claims in dispute against District arising from the performance of work under the Contract, except for the claims described in Paragraph 6 and continuing obligations described in Paragraph 8. It is the intention of the parties in executing this Agreement and Release that this Agreement and Release shall be effective as a full, final and general release of all claims, demands, actions, causes of action, obligations, costs, expenses, damages, losses and liabilities of Contractor against District, all its respective agents, employees, inspectors, assignees and transferees except for the Disputed Claim is set forth in Paragraph 6 and continuing obligations described in Paragraph 8 hereof.

6. The following claims are disputed (hereinafter, the "Disputed Claims") and are specifically excluded from the operation of this Agreement and Release:

<u>Claim No.</u>	<u>Description of Claim</u>	<u>Amount of Claim</u>	<u>Date Claim Submitted</u>
_____	_____	\$ _____	_____

7. Consistent with California Public Contract Code section 7100, Contractor hereby agrees that, in consideration of the payment set forth in Paragraph 4 hereof, Contractor hereby releases and forever discharges District, all its agents, employees, inspectors, assignees, and transferees from any and all liability, claims, demands, actions, or causes of action of whatever kind or nature arising out of or in any way concerned with the Work under the Contract.

8. Guarantees and warranties for the Work, and any other continuing obligation of Contractor, shall remain in full force and effect as specified in the Contract Documents.

9. To the furthest extent permitted by California law, Contractor shall defend, indemnify, and hold harmless the District, its agents, representatives, officers, consultants, employees, trustees, and volunteers (the "indemnified parties") from any and all losses, liabilities, claims, suits, and actions of any kind, nature, and description, including, but not limited to, attorneys' fees and costs, directly or indirectly arising out of, connected with, or resulting from the performance of the Contract unless caused wholly by the sole negligence or willful misconduct of the indemnified parties.

10. Contractor hereby waives the provisions of California Civil Code section 1542 which provides as follows:

A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS WHICH THE CREDITOR DOES NOT KNOW OR SUSPECT TO EXIST IN HIS OR HER FAVOR AT THE TIME OF EXECUTING THE RELEASE, WHICH IF KNOWN BY HIM OR HER MUST HAVE MATERIALLY AFFECTED HIS OR HER SETTLEMENT WITH THE DEBTOR.

11. The provisions of this Agreement and Release are contractual in nature and not mere recitals and shall be considered independent and severable. If any such provision or any part thereof shall be at any time held invalid in whole or in part under any federal, state, county, municipal, or other law, ruling, or regulations, then such provision, or part thereof, shall remain in force and effect to the extent permitted by law, and the remaining provisions of this Agreement and Release shall also remain in full force and effect, and shall be enforceable.

12. All rights of District shall survive completion of the Work or termination of Contract, and execution of this Release.

* * * CAUTION: THIS IS A RELEASE - READ BEFORE EXECUTING * * *

MARIN COMMUNITY COLLEGE DISTRICT

SIGNATURE: _____

PRINT NAME: _____

TITLE: _____

CONTRACTOR: _____

SIGNATURE: _____

PRINT NAME: _____

TITLE: _____

END OF DOCUMENT

1.21 GUARANTEE FORM

_____ ("Contractor") hereby agrees that the _____ ("Work" of Contractor) which Contractor has installed for the Marin Community College District ("District") for the following project:

PROJECT: _____

("Project" or "Contract") has been performed in accordance with the requirements of the Contract Documents and that the Work as installed will fulfill the requirements of the Contract Documents.

The undersigned agrees to repair or replace any or all of such Work that may prove to be defective in workmanship or material together with any other adjacent Work that may be displaced in connection with such replacement within a period of _____ year(s) from the date of completion as defined in Public Contract Code section 7107, subdivision (c), ordinary wear and tear and unusual abuse or neglect excepted. The date of completion is _____, 20____.

In the event of the undersigned's failure to comply with the above-mentioned conditions within a reasonable period of time, as determined by the District, but not later than seven (7) days after being notified in writing by the District, the undersigned authorizes the District to proceed to have said defects repaired and made good at the expense of the undersigned. The undersigned shall pay the costs and charges therefor upon demand.

Date: _____

Proper Name of Contractor: _____

Signature: _____

Print Name: _____

Title: _____

Representatives to be contacted for service subject to terms of Contract:

NAME: _____

ADDRESS: _____

PHONE NO.: _____

END OF DOCUMENT

1.22 - GENERAL CONDITIONS

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1. DEFINITIONS

Addendum: A written change or revision to the Contract Documents issued to the prospective bidders prior to the time of receiving bids.

Allowance: Stipulated cost to be included in the Base Bid to be used to perform work of unforeseen conditions as determined by and approved by the District.

Alternate: The sum to be added to or deducted from the base Bid if the change in scope of work as described in Alternates is accepted by the District.

Approved: Approved by the District or the District's authorized representative unless otherwise indicated in the Contract Documents.

As Directed: As directed by the District, unless otherwise indicated in the Contract Documents.

As Selected: As selected by the District, unless otherwise indicated in the Contract Documents.

Bid: The properly completed and signed proposal to perform the performance/execution of work for the Project as described in the Contract Documents.

Project Manager: The individual or entity named as such by the District. If no Project Manager is designated for the project, all references to the Project Manager in these Contract Documents shall mean the District and/or its designee or designees.

Contract: The legally binding agreement between the District and the Contractor wherein the Contractor agrees to furnish the labor, materials, equipment, plant and appurtenances required to perform the work described in the Contract Documents and the District agrees to pay the Contractor for such work.

Contract Documents: The Contract Documents are described in the Contract for this Project.

Contractor/Project Manager: The person or entity holding a valid license in the State of California required for performing this Project and who has contracted with the District to perform the performance/execution of work described in the Contract Documents. The term Contractor shall be construed to mean all of the officers, employees, Subcontractors, suppliers, or other persons engaged by the Contractor upon the work of this Project.

1.22 – GENERAL CONDITIONS

District: The District, its Governing Board, authorized officers and employees, and authorized representatives.

DIR: California Department of Industrial Relations which enforces prevailing wage, apprenticeship questions or problems as well as the Public Works Contractor Registrations.

DSA: The State of California Division of the State Architect which has the authority to review, approve and inspect the design, alteration and construction of school buildings.

Final Completion: Final Completion is achieved when the Contractor has fully completed all Contract Document requirements, including, but not limited to, all final punch list items, to the District's satisfaction.

Furnish: Purchase and deliver to site of installation.

Governing Board: The Governing Board of the District.

Indicated or As Shown: Shown on drawings and/or as specified.

Inspector: The person engaged by the District to conduct the inspections required by the Education Code and Title 24.

Install: Fix in place, for materials; and fix in place and connect, for equipment.

Modification: An authorized change to the Contract Documents, which may or may not include a change in contract price and/or time.

Project: The total performance/execution of Project Work and activities described in these Contract Documents.

Secure: Obtain.

Subcontractor: A person, firm, or corporation, duly licensed by the State of California, who has a contract with the Contractor to furnish labor, materials and equipment, and/or to install materials and equipment for work in this Contract.

Substantial Completion: Stage or designated portion of a construction project that is sufficiently complete in accordance with a contract for the owner to occupy and/or utilize it for its intended use, without undue interference

2. PROVISIONS REQUIRED BY LAW DEEMED INSERTED

Every provision of law and clause required by law to be inserted in this Contract shall be deemed to be inserted, and this Contract shall be read and enforced as though it were included, and if through mistake or otherwise any provision is not inserted or is not correctly inserted, upon application of either party the

Contract shall be amended to make the insertion or correction. All references to statutes and regulations shall include all amendments, replacements, and enactments on the subject, which are in effect as of the date of this Contract.

3. CONTRACT DOCUMENTS

a. Contents and Precedence

The Contract Documents consist of the executed Contract and all Addenda, all approved change orders, the completed Bid Form, the required Bonds and the Insurance forms, the Notice Inviting Bids, the Instructions to Bidders, the Notice of Award, the Notice to Proceed, the General Conditions, any supplemental Conditions, the Technical Specifications, the Drawings and the completed Bidder's Questionnaire. The Contract Documents are complimentary, and anything required by one shall be as binding as if required by all. In case of conflicts within the Contract Documents, the order of precedence of interpretation shall be as listed above, with the executed Contract and any change order thereto having priority, and subsequent Addenda having priority over prior Addenda only to the extent modified by the subsequent Addenda. In case of conflict within the drawings, larger scale drawings shall govern smaller scale drawings, and written dimensions shall govern over scaled dimensions.

b. Ambiguities, Errors, and Inconsistencies

If, in the opinion of the Contractor, the Project Work details indicated in the specifications or otherwise specified are in conflict with accepted industry standards for quality Project Work and therefore might interfere with its full guarantee of the work involved, the Contractor shall promptly bring this information to the attention of the District for appropriate action before submittal of the bid. Contractor's failure to request clarification or interpretation of an apparent ambiguity, error or inconsistency waives that Contractor's right to thereafter claim any entitlement to additional compensation based upon an ambiguity, inconsistency, or error, which should have been discovered by a reasonably prudent Contractor, subject to the limitations of Public Contract Code §1104. During the Project, should any discrepancy appear or any misunderstanding arise as to the import of anything contained in the Contract Documents, the matter shall be promptly referred to the District, who will issue instructions or corrections.

c. Lines and Planes

All lines and planes appearing on Contractor's drawings to be horizontal or vertical and not explicitly indicated otherwise shall be constructed true and plumb. All lines and planes appearing on Contractor's drawings to intersect at right angles and not explicitly indicated otherwise shall be constructed at true right angles. Where details are indicated covering specific conditions, such details also apply to all similar conditions not specifically indicated.

d. Standards

The specification standards of the various sections of the Specifications shall be the procedural, performance, and material standards of the applicable association publications identified and shall be the required level of installation, materials, workmanship, and performance for the applicable work. Except where a specific date of issue is mentioned, hereinafter, references to specification standards shall mean the edition, including amendments and supplements in effect on the date of the Notice Inviting Bids. Where no standard is identified and a manufacturer is specified, the manufacturer's Specifications are the standards. All standards shall be subordinate to the requirements of the applicable codes and regulations.

e. Reference to the Singular

Wherever in the Specifications an article, device or piece of equipment is referred to in the singular number; such reference shall include as many such items as are shown on drawings or required to complete the installation.

4. INTENT OF DRAWINGS AND SPECIFICATIONS

- a. Specifications and floor plans are to be read as an integrated document. The Contractor shall promptly report to the District any ambiguities, discrepancies, or errors which come to the Contractor's attention.
- b. Figured dimensions shall be followed in preference to scaled dimensions, and the Contractor shall make all additional measurements necessary for the work and shall be responsible for their accuracy. Before ordering any material or doing any work, each Contractor shall verify all measurements at the Project site and shall be responsible for the correctness of same.
- c. It is the intent of the drawings and Specifications to show and describe complete installations. Items shown but not specified, or specified but not shown, shall be included unless specifically omitted.
- d. The Specifications and contractor's plans shall be deemed to include and require everything necessary and reasonably incidental to the completion of all work described and indicated on the drawings, whether particularly mentioned or shown, or not.

5. TRADE DIVISIONS

Segregation of the Specifications into the designated trade divisions is only for the purpose of facilitating descriptions and shall not be considered as limiting the work of any subcontract or trade. Subject to other necessary provisions set forth in these Specifications, the terms and conditions of such limitations or inclusions shall lie solely between the Contractor and its Subcontractors. "Scope" as indicated in each section of the Specifications shall serve only as a general guide to what is included in that section. Neither the stated description nor the division of the plans and Specifications to various sections, which is done solely for convenience, shall be deemed to limit the

work required, divide or indicate it by labor jurisdiction or trade practice, or set up any bidding barriers to the various sub-contractors or suppliers.

- a. The Contractor shall be responsible for the proper execution of all work required by the Contract Documents and for allocating such portions as the Contractor sees fit to the various Subcontractors, subject to applicable law. The Contractor is cautioned that the various individual sections may not contain all work that the Contractor may wish to allocate to a particular Subcontractor or everything bearing on the work of a particular trade, some of which may appear in other portions of the plans or Specifications.
- b. If the Contractor elects to enter into any subcontract for any section of the work the Contractor assumes all responsibility for ascertaining that the Subcontractor for the work is competent, licensed, solvent, thoroughly acquainted with all conditions and legal requirements of the work, has included all materials and appurtenances in connection therewith in the subcontract, and has performed its work in strict compliance with the Contract Documents.
- c. It shall be the responsibility of the Contractor to notify each prospective Subcontractor at the time of request for bids of all portions of the Contract Documents, including the General Conditions, Supplementary Conditions and any parts of other sections of Specifications or plans that the Contractor intends to include as part of the subcontract.

6. MASTER MANDATORY PROVISIONS

- a. Any material, item, or piece of equipment mentioned, listed or indicated without definition of quality, shall be consistent with the quality of adjacent or related materials, items, or pieces of equipment on the Project and in accordance with best practices.
- b. Any method of installation, finish, or workmanship of an operation called for, without definition of standard of workmanship, shall be followed or performed and finished in accordance with good practice and consistent with adjacent or related installations on the Project.
- c. Any necessary material, item, piece of equipment or operation not called for but reasonably implied as necessary for proper completion of the work, shall be furnished, installed or performed and finished; and shall be consistent with adjacent or related materials, items, or pieces of equipment on the Project, and in accordance with best practices.
- d. Names or numbered products are to be used according to the manufacturers' directions or recommendations unless otherwise specified.

7. CONTRACTOR

- a. The Contractor shall perform all the work and activities required by the Contract Documents and furnish all labor, materials, equipment, tools and appurtenances necessary to perform the work and complete it to the District's satisfaction within the time specified. The Contractor shall at all times perform the work of this Contract in a competent and workmanlike manner and, if not

specifically stated, accomplish the work according to the best standards of electrical/controls practice. The Contractor in no way is relieved of any responsibility by the activities of the District, Inspector or DSA in the performance of such duties, as applicable.

- b. Contractor shall have a valid and proper State Contractor's License **"A" – General Engineering**
- c. Contractor and any/all subcontractors shall be registered with the California Department of Industrial Relations.
- d. Contractor shall provide the District Representative with contact information including phone numbers for the both the Project manager and alternate.
- e. The experience of the contractor to call for the highest level of quality in electrical/lighting control services compatible with the standards, practices and modern techniques accepted by the industry. All electrical/lighting control services shall be performed by experienced and qualified person(s) who are directly employed and supervised by the contractor. Such Contractor shall have at least (2) years of relevant experience in electrical/lighting control projects similar in size to those for which these Special Provisions apply.
- f. The Contractor shall employ a full-time competent superintendent and necessary assistants who shall have complete authority to act for the Contractor on all matters pertaining to the work. The superintendent shall be satisfactory to the District and, if not satisfactory, shall be replaced by the Contractor with one that is acceptable. Also, the superintendent shall not be changed without the written consent of the District unless the superintendent ceases to be employed by the Contractor.
- g. Contractor shall make the layout of lines and elevations and shall be responsible for the accuracy of both the Contractor's and the Subcontractors' work resulting therefrom. All dimensions affecting proper fabrication and installation of all Contract work must be verified by the Contractor prior to fabrication and installation by taking field measurements of the true conditions. The Contractor shall take, and assist Subcontractors in taking, all field dimensions required in performance of the work, and shall verify all dimensions and conditions on the site. If there are any discrepancies between dimensions in drawings and existing conditions which will affect the work, the Contractor shall promptly bring such discrepancies to the attention of the District for adjustment before proceeding with the work. Contractor shall be responsible for the proper fitting of all work and for the coordination of all trades, Subcontractors and persons engaged upon this Contract.
- h. Contractor shall do all cutting, fitting, or patching of Contractor's work that may be required to make its several parts come together properly and fit it to receive or be received by work of other contractors as shown, or reasonably implied by, the drawings and Specifications for the completed work. Any cost incurred by the District due to defective or ill -timed work shall be borne by the Contractor.

8. RESPONSIBILITY OF CONTRACTOR

- a. Contractor shall be held strictly responsible for the proper performance of all work covered by the Contract Documents, including the work performed by Subcontractors. All work performed under this Contract shall comply in every respect to the rules and regulations of all agencies having jurisdiction over the Project or any part thereof.
- ~~b. Contractor shall submit Verified Reports as defined in §§4 336 and 4 343 (c), Group 1, Chapter 4, Part I, Title 24, California Code of Regulations (“CCR”). The duties of the Contractor are as defined in §4 343, Group 1, Chapter 4, Part I, Title 24, of the CCR. Contractor shall keep and make available a copy of Title 24 of the CCR at the job site at all times.~~
- c. Where, because of short supply, any items of fabricated materials and/or equipment, indicated on drawings or specified, are unobtainable and it becomes necessary, with the consent of the District, to substitute equivalent items differing in details or design, the Contractor shall submit complete drawings and details indicating the necessary modifications of the work. This provision shall be governed by the terms of the General Conditions regarding Submittals: Shop Drawings, Cuts and Samples.
- d. With respect to work performed at and near a school site, Contractor shall at all times take all appropriate measures to ensure the security and safety of students and staff, including, but not limited to, ensuring that all of Contractor’s employees, Subcontractors, and suppliers entering school property strictly adhere to all applicable District policies and procedures, e.g., sign-in requirements, visitor badges, and access limitations.

9. SUBCONTRACTORS

- a. Nothing contained in the Contract Documents shall create any contractual relationship between any Subcontractor and the District. The District shall be deemed to be the third party beneficiary of the contract between the Contractor and each Subcontractor. If the Contractor does not specify a Subcontractor for any portion of the work to be performed under this Contract, as required by law, Contractor shall perform that portion of the work with its own forces. The Contractor shall not substitute any other person or firm as a Subcontractor for those listed in the bid submitted by the Contractor, without the written approval of the District and in conformance with the requirements of the Public Contract Code. The District reserves the right of approval of all Subcontractors proposed for use on this Project, and to this end, may require financial, performance, and such additional information as is needed to secure this approval. If a Subcontractor is not approved, the Contractor shall promptly submit another firm of the same trade for approval.
- b. The Contractor shall insert appropriate provisions in all subcontracts pertaining to work on this Project requiring the Subcontractors to be bound by all applicable terms of the Contract Documents. The Contractor shall be as fully responsible for the acts and omissions of the

Subcontractors, and of persons either directly or indirectly employed by them, as the Contractor is for the acts and omissions of persons directly employed by the Contractor.

10. PERFORMANCE AND PAYMENT BONDS

- a. As directed in the Notice of Award, the Contractor shall file with the District the following bonds, using the bond forms provided with these Contract Documents:
 - 1) A corporate surety bond, in a sum not less than 100 percent of the amount of the Contract, to guarantee the faithful performance of the Contract.
 - 2) A corporate surety bond, in a sum not less than 100 percent of the amount of the Contract, to guarantee the payment of wages for services engaged and of bills contracted for materials, supplies, and equipment used in the performance of the Contract.
- b. Corporate sureties on these bonds and on bonds accompanying bids must be admitted sureties as defined by law, legally authorized to engage in the business of furnishing surety bonds in the State of California. All sureties and bond forms must be satisfactory to the District. Failure to submit the required bonds within the time specified by the Notice of Award, using the forms provided by the District, may result in cancellation of the award of Contract and forfeiture of the Bid Bond.
- c. The amount of the Contract, as used to determine the amounts of the bonds, shall be the total amount fixed in the Contractor's proposal for the performance of the required work.
- d. During the period covered by the Contract, if any of the sureties upon the bonds shall become insolvent or unable, in the opinion of the District, to pay promptly the amount of such bonds to the extent to which surety might be liable, the Contractor, within thirty (30) days after notice given by the District to the Contractor, shall provide supplemental bonds or otherwise substitute another and sufficient surety approved by the District in place of the surety becoming insolvent or unable to pay. If the Contractor fails within such thirty (30) day period to substitute another and sufficient surety, the Contractor shall, if the District so elects, be deemed to be in default in the performance of its obligations hereunder and upon the bid bond, and the District, in addition to any and all other remedies, may terminate the Contract or bring any proper suit or other proceedings against the Contractor and the sureties or any of them, or may deduct from any monies then due or which thereafter may become due the Contractor under the Contract, the amount for which the surety, insolvent or unable to pay, shall have been liable on the bonds, and the monies so deducted shall be held by the District as collateral security for the performance of the conditions of the bonds.

11. INSURANCE

- a. Contractor shall obtain the following insurance from a company or companies acceptable to District. All required insurance must be written by a company licensed to do business in the

State of California at the time the policy is issued. All required insurance shall be equal to or exceed an A VIII rating as listed in Best's Insurance Guides' latest edition. On a case-by-case basis, District may accept insurance written on a company listed on the State of California Department of Insurance List of Eligible Surplus Lines ("LESLI List") with a rating of A VIII or above as listed in Best's Insurance Guides' latest edition. Required documentation of such insurance shall be furnished to the District at the time stated in the Notice of Award. Contractor shall not commence work nor shall it allow its employees or Subcontractors or anyone to commence work until all insurance required hereunder has been submitted and approved and a notice to proceed has been issued.

b. Contractor shall take out and maintain at all times during the life of this Contract, up to the date of acceptance of the work by the District, the following policies of insurance:

- 1) Public Liability Insurance: Personal injury and replacement value property damage insurance for all activities of the Contractor and its Subcontractors arising out of or in connection with this Contract, written on a comprehensive general liability form including contractor's protected coverage, blanket contractual, completed operations, vehicle coverage and employer's non-ownership liability coverage, in an amount no less than \$2,000,000 combined single limit personal injury and property damage for each occurrence, and a general aggregate limit which applies either separately or specifically to this Contract and is twice the required occurrence limit., i.e., \$4,000,000.
- 2) ~~Builders' Risk Insurance: Contractor shall procure and maintain builders' risk insurance (all risk coverage) for an amount equal to one hundred percent (100%) of the Contract sum for the benefit of the District, and the Contractor and Subcontractors as their interest may appear. In projects involving no structural change or building construction, this requirement may be waived in writing at the District's sole option.~~

These policies shall include the following coverage:

- i. The inclusion of more than one insured shall not operate to impair the rights of one insured against another insured and the coverage's afforded shall apply as though separate policies have been issued to each insured.
- ii. This policy does not exclude explosion, collapse, underground excavation hazard, or removal of lateral support.

c. Endorsements:

- 1) The Public Liability Policy specified above shall be endorsed with the following specific language:

"The Marin Community College District is named as additional insured for all liability arising out of the operations by or on behalf of the named insured, and this policy protects the additional insured, its officers, agents and employees against liability for

bodily injuries, death or property damage or destruction arising in any respect directly or indirectly in the performance of the Contract.”

- 2) The certificates must state that the insurance is under an occurrence based, and not a claims-made, policy (policies). Both the Public Liability Policy and the Builders' Risk Policy specified above shall be endorsed with the following specific language:

- i. The insurance provided herein is primary and no insurance held or owned by the District shall be called upon to contribute to a loss.
- ii. Coverage provided by this policy shall not be reduced or canceled without thirty (30) days written notice given to the District by certified mail.

d. Documentation:

Within ten (10) days following issuance of the Notice of Award of the Contract, the following documentation of insurance shall be submitted to District for approval prior to issuance of the Notice to Proceed: signed certificates of insurance showing the limits of insurance provided and copies of specific endorsements for each policy. Certified copies of all policies shall be provided to the District upon request. If Contractor fails to submit the required documentation for all coverage required by this Contract within ten (10) calendar days following the issuance of the Notice of Award, the District may acting in its sole discretion, rescind the Notice of Award and the Contract, and the Contractor shall forfeit its bid security.

- e. If the Contractor fails to maintain such insurance, the District may take out such insurance to cover any damages for which the District might be held liable on account of the Contractor's failure to pay such damages, and deduct and retain the amount of the premiums from any sums due the Contractor under the Contract.

f. Workers' Compensation Insurance:

- 1) Within ten (10) days following issuance of the Notice of Award of the Contract, the Contractor shall furnish to the District satisfactory proof that the Contractor and all Subcontractors it intends to employ, have procured, for the period covered by the proposed Contract, full Workers' Compensation insurance and employer's liability with limits of at least \$1,000,000 with an insurance carrier satisfactory to the District for all persons whom they may employ in carrying out the work contemplated under this Contract in accordance with the Workers' Compensation Insurance and Safety Act, approved May 26, 1913, and all acts amendatory or supplemental thereto (the "Act"). Such insurance shall be maintained in full force and effect during the period covered by the Contract. In the event the Contractor is self-insured, Contractor shall furnish a Certificate of Permission to Self-Insure, signed by the Department of Industrial Relations Administration of Self-Insurance, Sacramento, California.

- 2) If the Contractor fails to maintain such insurance, the District may take out compensation insurance to cover any compensation which the District might be liable to pay under the provisions of the Act, by reason of any employee of the Contractor being injured or killed, and deduct and retain the amount of the premiums for such insurance from any sums due the Contractor under the Contract, or otherwise recover that amount from the Contractor or the Surety.
- 3) If an injury occurs to any employee of the Contractor for which the employee, or the employee's dependents in the event of the employee's death, is entitled to compensation from the District under the provisions of the Act, or for which compensation is claimed from the District, the District may retain from the sums due the Contractor under this Contract, an amount sufficient to cover such compensation, as fixed by the Act, until such compensation is paid, or until it is determined that no compensation is due, and if the District is compelled to pay such compensation, it will deduct and retain from such sums the amount so paid, or otherwise recover this sum from the Contractor or its Surety.
- 4) The policies represented by the certificates must contain the provision (and the certificates must so state) that the insurance cannot be canceled until thirty (30) days after written notice of intended cancellation has been given to the District by certified mail.

12. CODES AND REGULATIONS

- a. The Contractor shall be knowledgeable regarding and shall comply with applicable portions of California Code of Regulations Title 24, the applicable Building Code, and all other codes, ordinances, regulations or orders of properly constituted authority having jurisdiction over the work of this Project. The Contractor shall examine the Contract Documents for compliance with these codes and regulations, and shall promptly notify the District of any discrepancies.
- b. All work and materials shall be in full accordance with the latest rules and regulations of the Safety Orders of the Division of Industrial Safety, and the applicable State laws and/or regulations. Nothing in the Project plans or Specifications is to be construed to permit work not conforming to the applicable Codes. Buildings and/or all other services covered by this Contract shall meet all the regulations for access by the physically disabled as administered by the Division of the State Architect, and as may be required by federal or state law.
- c. If the work under this Contract is for the construction of a school building as defined by the Education Code, then the following provisions shall apply to the Contract:
 - 1) All work shall be executed in accordance with the current requirements of the Education Code and California Code of Regulations: Title 24 and Title 19. No deviations from the Contractor's approved plans and Specifications will be permitted except upon a Change Order or Addenda, signed and approved by the District.

13. PERMITS AND TAXES

- a. The Contractor shall obtain and pay for all permits, fees and licenses that are required in order to perform the work under this Contract. The District shall pay connection charges and meter costs for new permanent utilities required by these Contract Documents. The Contractor shall notify District sufficiently in advance to submit requests for service to the appropriate utility companies so as to insure connections or installation of utility services in accordance with the Project schedule.
- b. The Contractor shall pay for all taxes on materials and equipment. The District is exempt from Federal Excise Tax. Contractor shall not pay Federal Excise Tax on any item in this Contract.

14. PATENTS AND ROYALTIES

All fees or claims for patents, royalties or licenses on materials, equipment or processes used in the performance of work on this Project shall be included in the amount of the Bid. The Contractor shall indemnify, defend, and hold harmless the District, its Governing Board and their officers and employees, from all claims or liability, including costs and expenses, which may arise from the use on this Project of any patented or copyrighted materials, equipment, or processes.

15. SAFETY AND FIRE PREVENTION

- a. **Safety Plan/Program.** Prior to commencement of the Work at the site, the Contractor shall prepare and submit to the Maintenance Director, for review, a written safety plan. The Contractor shall revise the safety plan as necessary to obtain the Maintenance Director's acceptance of the plan for the plan for record purposes only. The Contractor shall be solely responsible for initiating, maintaining and supervising all safety programs required by applicable law, ordinance, regulation or governmental orders in connection with the performance of the Contract, or otherwise required by the type or nature of the Work. The Contractor's safety program shall include all actions and programs necessary for compliance with California or federally statutorily mandated workplace safety programs, including without limitation, compliance with the California Drug Free Workplace Act of 1990 (California Government Code 8350 et seq.) Without limiting or relieving the Contractor of its obligations hereunder, the Contractor shall require that it's Subcontractor similarly initiate and maintain all appropriate or required safety programs.
- b. **Safety Precautions.** The Contractor shall be solely responsible for initiating and maintaining reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury or loss to: (i) employees on the Work and other persons who may be affected thereby; (ii) the Work and materials and equipment to control of the Contractor or the Contractor's Subcontractors or Sub-subcontractors; and (iii) other property or items at the site of the Work, or adjacent thereto, such as buildings, trees, shrubs, lawns, walks, pavements, roadways, structures and utilities not designated for removal, relocation or replacement in the course of performance of the project.

- c. **Safety Signs, Barricades.** The Contractor shall erect and maintain, as required by existing conditions and conditions resulting from performance of the Contract, reasonable safeguards for safety and protection of property and persons, including, without limitation, posting danger signs and other warnings against hazards, promulgating safety regulation and notifying owners and users of adjacent site and utilities.
- d. **Safety Notices.** The Contractor shall erect and maintain, as required by existing conditions and conditions resulting from performance of the Contract, reasonable safeguards for safety and protection of property and persons, including, without limitation, posting danger signs and other warnings against hazards, promulgating safety regulations and notifying owners and users of adjacent sites and utilities.
- e. **Safety Coordinator.** The Contractor shall designate a responsible member of the Contractor's organization at the Site whose duty shall be the prevention of accidents and the implementation and maintenance safety precautions and programs. This person shall be the Contractor's superintendent unless otherwise designated by the Contractor in writing to the District's Inspector, Grounds Supervisor or Maintenance Manager.
- f. **Emergencies.** In an emergency affecting safety of persons or property, the Contractor shall act, to prevent threatened damage, injury or loss.
- g. **Safety Codes.** The Contractor, Subcontractors and all of their agents and employees shall fully comply with all of the provisions and requirements of CAL/OSHA, Title 8, California Code of Regulations and all other safety codes applicable to the Project. The Contractor shall take thorough precautions at all times for the protection of persons and property, and shall be liable for all damages to persons or property, either on or off the site, which occur as a result of Contractor's prosecution of the work. The Contractor shall obtain permits for, install and maintain in safe condition barricades, walkways, fences, railings, and whatever other safeguards that may be necessary to protect persons and property from damage as a result of the performance to completion under this Contract.
- h. **Safety Data Sheets.** Contractor is required to ensure Safety Data Sheets ("SDS") are available in a readily accessible place at the work site for any material requiring an SDS pursuant to the federal "Hazard Communication" standard or employee "right to know" laws. Contractor is also required to ensure proper labeling on materials brought on the job site such that any person working with the material or within the general area of the material is informed of the hazards of the material and follows proper handling and protections procedures. Copies of the SDS's shall also be submitted directly to the District.
- i. **Alterations & Storage.** Contractor shall not endanger any work by cutting, excavating, or otherwise altering the work and shall not cut or alter the work of any other Contractor except with the written consent of the District, nor overload any new or existing structures by the placing or storage of materials, equipment, or other items thereon, and if necessary, shall provide calculations proving the safety in so doing.

- j. **Lighting.** If it is necessary to work at night, or where daylight is obscured, the Contractor shall provide and maintain lighting of adequate level to properly prosecute the work, to permit the thorough inspection of same, and to ensure the safety of workers and others.
- k. **Fire Safety.** Contractor shall take extraordinary care to prevent fires and keep all flammable materials and oily rags in tightly closed metal containers. Contractor shall exercise particular care when welding or cutting, and with regard to the disposition of waste materials, the nature and quantity of which might create or increase a fire hazard.

16. HAZARDOUS MATERIALS

Unless otherwise specified, this Contract does not include the removal, handling, or disturbance of any hazardous substances or materials encountered in Performing Arts Building. If such substances or materials are encountered, work shall cease in that area and the District shall be promptly notified to take appropriate action for removal or otherwise abating the condition in accordance with current regulations applicable to the District.

a. General

- 1) No asbestos, asbestos-containing products or other hazardous materials shall be used in this Project or in any tools, devices, clothing or equipment used to further this Project.
- 2) Asbestos and/or asbestos containing products shall be defined as all items containing but not limited to chrysotile, crocidolite, amosite, anthophyllite, tremo-lite or actinolite.
- 3) 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 contains asbestos shall be settled by electron microscopy; the cost of any such tests shall be paid by the Contractor.
- 5) All work or materials found to contain asbestos or work or material installed with asbestos containing equipment will be immediately rejected and this work shall be removed by the Contractor at no additional cost to the District.

b. Decontamination and Removal of hazardous material from prior work

- 1) Decontamination and removal of work found to contain asbestos or work installed with asbestos containing equipment shall be done only under the supervision of a qualified consultant, knowledgeable in the field of asbestos abatement and accredited by the Environmental Protection Agency ("EPA").
- 2) The asbestos removal contractor shall be an EPA-accredited contractor qualified in the removal of asbestos subject to the approval of the District.

- 3) The asbestos consultant shall be chosen and approved by the District, which shall have sole discretion and final determination in this matter.
- 4) The work will not be accepted until asbestos contamination is reduced to levels deemed acceptable by the asbestos consultant.

c. Hold Harmless

- 1) Interface of work under this Contract with work containing asbestos shall be executed by the Contractor at Contractor's risk and at Contractor's discretion with full knowledge of the currently accepted standards, hazards, risks and liabilities associated with asbestos work and asbestos containing products. By execution of this Contract the Contractor acknowledges the above and agrees to hold harmless, as set forth in the indemnity provisions of this Contract, the District, its employees, agents and assigns for all asbestos liability which may be associated with this work and agrees to instruct Contractor's employees with respect to the above mentioned standards, hazards, risks and liabilities.
- 2) The Contractor shall, prior to commencement of this work, provide a duly signed and notarized affidavit that Contractor has instructed Contractor's employees and agents with respect to the above mentioned standards, hazards, risks and liabilities and the contents and requirements of this portion of the Contract Documents.

d. Certification

The Contractor agrees that materials containing asbestos or other hazardous materials as defined in Federal and State law shall not be used in this Project.

17. TEMPORARY FACILITIES

- a. The Contractor shall obtain permits for, install and maintain in safe condition all scaffolds, hoisting equipment, barricades, walkways, or other temporary structures that may be required to accomplish the work. Such structures shall be adequate for the intended use and capable of safely accepting all loads that may be imposed upon them. They shall be installed and maintained in accordance with all applicable codes and regulations.
- b. The Contractor shall provide and maintain temporary heat from an approved source whenever in the course of the work it may become necessary for curing, drying or warming spaces as may be required for the installation of materials or finishes. The Contractor shall provide and maintain any and all facilities that may be required for dewatering in order that work may proceed on the Project. If it is necessary for dewatering to occur continually, the Contractor shall have on hand whatever spare parts or equipment that may be required to avoid interruption of service or work.
- c. The Contractor shall promptly remove all such temporary facilities when they are no longer needed for the work or on completion of the Project. The Contractor shall repair any damage

to premises or property which resulted from the performance/execution of the electrical/lighting control Project, use, or removal of temporary facilities and shall restore said premises and property to their original condition.

- d. See Section 1.50 titled Temporary Facilities and Controls for requirements concerning temporary sanitary facilities and utilities.

18. SIGNS

No signs may be displayed on or about the District's property (except those which may be required by law) without the District's prior written approval of size, content and location. Any signs required by the District will be designated in the Supplementary General Conditions.

19. TIME

- a. The Contractor shall commence the work on the date indicated in the Notice to Proceed. Time is of the essence regarding the Contract work, and the Contractor shall prosecute the work diligently and regularly at such a rate of progress to ensure completion of this Project within, or sooner than, the time specified.
- b. The Contractors and Subcontractors shall investigate and become aware of the amount of time required for the delivery of all equipment and materials required to perform the work under this Contract, and no extension of time shall be granted due to failure to order the equipment and materials sufficiently before their incorporation into the work so as to avoid delay to the Project.
- c. The Contractors and Subcontractors shall provide and maintain enough manpower, materials and equipment to ensure a rate of project progress that will complete the Project within or sooner than the time specified and according to the schedule of work. If, in the District's opinion, the Contractor and/or Subcontractors are not prosecuting the work at a sufficient rate of progress to meet the Project schedule, the District may direct the Contractor to provide additional manpower, materials or equipment, or to work additional hours, holidays or weekends without additional cost to the District until the work is progressing in a manner satisfactory to the District. Failure to prosecute the work in a timely manner and according to the Project schedule is considered a breach of Contract shall be cause for termination of the Contract.

20. PROJECT SCHEDULE

- a. Within seven (7) calendar days after the Award of Contract, the Contractor shall prepare and submit to the District an as-planned performance/execution schedule showing in detail how the performance and execution plans to prosecute the work within the time set for Final Completion. The schedule shall include the work of all trades necessary for performance and execution of the Project, and shall be sufficiently complete and comprehensive to enable progress to be monitored on a day-by-day basis. The information for each activity shall include at a minimum the activity description, duration, start date and completion date.

- b. The Contractor shall take care in the preparation of the schedule to ensure that it represents an accurate and efficient plan for accomplishing the work. If the Project is more than one week behind schedule, it must be promptly revised showing how the Contractor plans to complete the work, but in no case shall it show a completion date later than that required by the Contract, unless a time extension has been granted. The current schedule shall be kept posted in the Contractor's project office on site.
- c. The Contractor shall be responsible for the coordination of all work necessary and pertaining to the project accomplishment whether actually a part of this Contract or attendant thereto. The Contractor shall notify the District and various utility companies, as far as possible in advance of their required work, in order that work schedules may be developed for all concerned, which will permit the most effective accomplishment of the entire Project.

21. DELAYS AND TIME EXTENSIONS

- a. The Contractor may be granted a time extension if the Contractor encounters an unavoidable delay of the work due to causes completely beyond the Contractor's control and which the Contractor could not have avoided by the exercise of reasonable care, prudence, foresight and diligence. Causes for which a claim for extension of time may be made include: acts of the public enemy, acts of another contractor in the performance of another contract with the District, priority of a governmental agency for materials or equipment, fire, flood, violent wind storm, epidemic, quarantine restriction, strike, freight embargo, or weather of an unusually severe nature. The Contractor will not be granted time extensions for weather conditions which are normal for the location of the Project, according to the U. S. Weather Bureau Records.
- b. A request for extension of time and compensation related thereto shall be made in writing to the District within ten (10) calendar days of the date the delay is encountered, or shall be deemed waived. The request shall include a detailed description of the reasons for the delay and corrective measures by the Contractor. The request shall be accompanied by evidence that the insurance policies required by the Contract shall be in effect during the requested additional time period. In order for the District to consider a request for time extension, the Contractor must prove that the reasons stated for a delay actually caused a delay in portions of the work which will result in completion beyond the date specified in the Contract. The Contractor may be granted a time extension for a significant change in the scope of work which request for extension of time shall be included in a Contract modification proposal.
- c. No damages or compensation or any kind shall be paid to a Contractor because of delays in the progress of work, whether such delays be avoidable or unavoidable, that are not the responsibility of District. District's liability to Contractor for delays for which District is responsible shall be limited to an extension of time unless such delays were unreasonable under the circumstances involved and were not within the contemplation of the parties when the Contract was awarded. The Contractor shall provide to the District the actual substantiated costs to Contractor for which the Contractor may claim damages from District. Such costs, if any, shall be directly related to the Project, and shall not include costs that would be borne by

the Contractor in the regular course of business, including, but not limited to, office overhead and ongoing insurance costs. Delay damages shall not include Contractor or Subcontractor markup for overhead and profit, but only actual, documented, and direct actual costs. The District shall not be liable for any damages which the Contractor could have avoided by any reasonable means including, but not limited to, the judicious handling of forces or equipment.

- d. The granting of an extension of time because of unavoidable delays shall in no way operate as a waiver on the part of the District of the right to collect liquidated damages for other delays or of any other rights to which the District is entitled.

22. LIQUIDATED DAMAGES

- a. Should the Contractor fail to achieve Final Completion of this Contract within the time fixed for Final Completion, together with extensions granted by the District for unavoidable delays, Contractor shall become liable to the District in the amount specified in the Contract per calendar day for each day the Contract remains uncompleted beyond the time for Final Completion, as liquidated damages and not as a penalty. Contractor may also be assessed liquidated damages for failure to meet milestones specified in the Contract Documents, regardless of impact on overall Project completion. Contractor shall not be charged with liquidated damages when the delay in completion of the work beyond the time for Final Completion is due to acts of the District. It is expressly stipulated and agreed by Contractor and District that it would be impractical and extremely difficult to fix the actual amount of damages.
- b. Any money due or to become due the Contractor may be retained to cover liquidated damages. Should such money not be sufficient to cover said liquidated damages, the District shall have the right to recover the balance from the Contractor or Contractor's sureties.
- c. Should the District authorize suspension of the work for any cause, the time work is suspended will be added to the time for completion. Suspension of the work by the District shall not be a waiver of the right to claim liquidated damages as set forth in this section.
- d. The assessment of Liquidated Damages does not otherwise limit the right of the District to claim a loss or damages incurred by the District for reasons other than delay (e.g. damages due to defective work).

23. DISTRICT'S RIGHT TO STOP WORK; TERMINATION OF SUSPENSION OF THE CONTRACT

- a. District's Right to Stop Work:

In addition to or as an alternative to any and all other remedies available to the District, if the Contractor fails to correct work which is not performed in accordance with the Contract Documents, or if the Contractor persistently fails to perform the work in accordance with the Contract Documents, the District may by written order direct the Contractor to stop the work, or any portion thereof, until the cause for such order has been eliminated to the satisfaction of the District. However, the right of the District to stop the work shall not give rise to a duty on

the part of the District to exercise this right for the benefit of the Contractor or any other person or entity, and the failure of the District to do so shall not be raised as a defense to the Contractor's failure to perform the work in accordance with the Contract Documents.

b. Termination for Cause:

- 1) If the Contractor refuses or fails to furnish sufficient materials, work force, equipment, and appurtenances to properly prosecute the work in a timely manner, or if Contractor refuses or fails to comply with any provisions of the Contract Documents, or if Contractor should file a bankruptcy petition or make a general assignment for the benefit of Contractor's creditors or if a receiver should be appointed on account of Contractor's insolvency, then the District may give the Contractor and Contractor's Surety written notice of intention to terminate the Contract. Unless within seven (7) calendar days after the serving of such notice upon the Contractor and Contractor's Surety such violation shall cease and arrangements for correction of such conditions shall be made satisfactory to the District, the Contract shall cease and terminate. In the event of such termination, the District shall immediately serve written notice thereof upon the Contractor and Contractor's Surety.
- 2) In the event of termination for cause, in addition to all remedies available to the District, the Contractor's Surety shall have the right to take over and perform the Contract; provided, however, that if the Surety does not commence performance within five (5) calendar days from the date issuance of such notice of termination, the District may take over the work and prosecute the same to completion by letting another Contract, or by any other method that the District deems advisable. The Contractor and Contractor's Surety shall be liable for any excess cost occasioned the District thereby, and in any such event the District may take possession of such materials, equipment, and other property belonging to the Contractor as may be on the site and use same in completing the work.

c. Termination of Suspension for Convenience:

The District reserves the right, in its sole discretion, to terminate or suspend all or part of the Contract for convenience, following three (3) days written notice to the Contractor. In the event of termination or suspension for convenience, Contractor shall have no claims against the District, except:

- 1) The actual cost of labor, materials and services provided pursuant to the Contract, and which have not yet been paid for, as documented by timesheets, invoices, receipts and the like; and
- 2) Five percent (5%) of the total cost of the work performed as of the date of notice of termination or five percent (5%) of the value of the work yet to be completed, whichever is less. The parties agree that this amount shall constitute full and fair compensation for all Contractor's lost profits and other damages resulting from the termination of suspension for convenience.

24. ASSIGNMENT OF CONTRACT

The Contractor may not assign or delegate all or any portion of this Contract without the written consent of the District and no such consent shall be given which would relieve the Contractor or its Surety of their responsibilities under the Contract. The Contractor may assign, without liability to the District, monies due the Contractor under the Contract to banks, trust companies or other financial institutions provided written notice thereof is promptly delivered to the District. Assignment of monies earned by the Contractor shall be subject to the same retention as other payments made to Contractor, and shall also be subject to setoffs and back charges as provided by this Contract.

25. COORDINATION WITH OTHER CONTRACTS

- a. The District reserves the right to do other work or award other contracts in connection with this Project. By entering into this Contract, Contractor acknowledges that there may be other contractors on or adjacent to the Project site whose work must be coordinated with that of its own. Contractor expressly warrants and agrees that it will cooperate with other contractors and will do nothing to delay, hinder, or interface with the work of other contractors, or that of the District. Contractor also expressly agrees that in the event its work is hindered, delayed, interfered with, or otherwise affected by a separate contractor, its sole remedy will be direct action against the separate contractor. To the extent allowed by law, the Contractor expressly waives any remedy against the District on account of delay, hindrance, interference or other such events caused by a separate contractor.
- b. If any part of this Contractor's work depends upon the work of a separate contractor, Contractor shall inspect such other work and promptly report in writing to the District any defects in such other work that render it unsuitable to receive the work of Contractor. Failure of the Contractor to so inspect and report shall constitute an acceptance of the other contractor's work, except as to defects which the Contractor could not have detected through the reasonable inspection of the other contractor's work prior to execution of Contractor's work.
- c. If Contractor is aware of a current or potential conflict between Contractor's work and the work of another contractor on the site, and is unable to informally resolve the conflict directly with the contractor, Contractor shall promptly provide written notice to the District and the other contractor, specifying the nature of the conflict, the date upon which the conflict arose, and the steps taken to attempt to resolve the conflict.
- d. If, through Contractor's negligence, any other contractor or subcontractor shall suffer loss or damage to the work, Contractor shall make reasonable effort to settle with such other contractor and subcontractor by agreement or arbitration. If such other contractor or subcontractor shall assert any claim against the District, on account of any damage alleged to have been so sustained, the District shall notify the Contractor, who shall defend such proceedings at Contractor's own expense and save harmless and indemnify the District any such claim.

26. SUBMITTALS

- a. In addition to information furnished as common practice, submittals shall contain the Project name and location, Contractor's name and address, Subcontractor's or supplier's name and address, date of submittal and any revisions, and reference to appropriate specification section, and/or drawing and detail numbers. The Contractor and/or the Subcontractors shall verify in the field all dimensions and relationships to adjacent work necessary to ensure the proper fit of the items submitted. If necessary, the Contractor make any corrections required and resubmit with all due haste in the same number as initially required.
- b. Review of submittals by the District shall not relieve the Contractor from complying with the requirements of the Contract Documents.
- c. Any materials or equipment installed without approval shall be at the Contractor's own risk, and Contractor may be required to remove any such materials or equipment and install the specified items at Contractor's own cost, including repairs to adjacent work.

27. PAYMENTS

a. Cost Breakdown

Prior to submitting Contractor's first request for payment, the Contractor shall prepare and submit to the District a cost breakdown (schedule of values) showing the major work items for each trade or operation required in completion of the Project. The work items shall be sufficiently detailed to enable the District to accurately evaluate the completion percentages requested by the Contractor. The cost for each work item shall include overhead and profit. The total of all work item costs shall equal the amount of the Contract.

b. Scope of Payment

Payment to the Contractor at the unit price or other price fixed in the Contract for performing the work required under any item or at the lump sum price fixed in the Contract for performing all the work required under the Contract, shall be full compensation for furnishing all labor, materials, equipment and tools necessary to the work, and for performing and completing, in accordance with the Specifications, all work required under the item or under the Contract, and for all expense incurred by the Contractor for any purpose in connection with the performance and completion of said work.

c. Progress Payments

The Contractor will, on or about the last day of each month, make an estimate of the value of the work completed by Contractor in the performance of the Contract. These estimates shall be subject to the review and approval of the District. The first such estimate will be of the value of the work completed after the Contractor commenced the performance of the Contract, and every subsequent estimate, except the final estimate, will be of the value of the work completed

since the immediately preceding estimate. Such estimates will be based on labor, materials and equipment incorporated into the work, and items of materials and equipment delivered to the Project. The Contractor shall be responsible for the security and protection of such materials and equipment delivered to the Project and not incorporated in the work. Within thirty (30) calendar days after the approval of each estimate for progress payment, the District will pay to the Contractor an amount equal to ninety (90) percent of said approved estimate. Payments may at any time be withheld if in the judgment of the District the work is not proceeding in accordance with the Contract Documents, the Contractor is not complying with the requirements of the Contract, stop notices have been timely filed, the estimate contains an error, or the District has incurred costs or requests reasonable financial assurances regarding defective work by the Contractor.

d. Final Payment

Within thirty (30) days after all required work is full completed in accordance with the Contract Documents, the Contractor shall submit a final invoice for the total value of the work completed in accordance with the Contract, which shall be subject to review and approval by the District. As required by law, District shall pay Contractor the unpaid balance of the Contract price of the work, or the whole Contract price of the work if no progress payment has been made, determined in accordance with the terms of the Contract, less such sums as may be lawfully retained under any provision of the Contract, including, but not limited to, amounts retained as liquidated damages, for stop notices, for third-party claims for which the Contractor is required to indemnify the District, for defective work and costs incurred by the District in connection therewith, or for other such claims and damages attributable to the Contractor ("Final Payment"). Prior progress estimates and payments are subject to correction in the Final Payment. Tender of the Final Payment shall constitute denial by the District of any unresolved claim. Contractor's acceptance of the Final Payment shall operate as a full and final release to the District and its agents from any and all unasserted claims Contractor has, or may have, related to this contract.

e. Payments Do Not Imply Acceptance of Wor:

The granting of any progress payment or payments by the District or the receipt thereof by the Contractor, shall not constitute acceptance of the work or of any portion thereof, and shall in no way lessen the liability of the Contractor to replace unsatisfactory work or material, whether or not the unsatisfactory character of such work or material was apparent or detected at the time such payment was made.

f. Retention of Sums Charged Against Contractor

It is mutually understood and agreed that when under any provision of this Contract the District shall charge any sums of money against the Contractor, the amount of such charge shall be deducted and retained by the District from the amount of the next succeeding progress estimate, or from any other monies due or that may become due the Contractor on account of the Contract. If on completion or termination of the Contract such monies due the Contractor

are found insufficient to cover the District's charges against the Contractor, the District shall have the right to recover the balance from the Contractor or the Contractor's Sureties.

g. Release

The Contractor and each assignee under an assignment in effect at the time of Final Payment shall, if required by the District, execute and deliver at the time of Final Payment and as a condition precedent to Final Payment, a release in form and substance satisfactory to and containing such exemptions as may be found appropriate by the District, discharging the District, its officers, agents and employees of and from liabilities, obligations and claims arising under this Contract.

h. Payment to Subcontractors and Suppliers

The Contractor shall pay each Subcontractor and supplier promptly on receipt of each progress payment from the District for the materials, labor and equipment delivered to the site or incorporated in the work by each Subcontractor during the period for which the progress payment is made, less any retention as provided above.

i. Stop Notice Costs

District reserves the right to charge Contractor or Surety, or to withhold from release of retention all costs incurred by the District, including attorney fees, for processing and handling stop notice claims.

28. MODIFICATIONS OF CONTRACT

a. Changes In The Work

- 1) The District, before the date of acceptance of the work, may, without notice to the Sureties, order changes in the work ("Modifications"), may order extra materials and extra work in connection with the performance of the Contract, and the Contractor shall promptly comply with such orders. All Modifications must be approved by DSA and the State Fire Marshall, if applicable, as required by law.
- 2) If changes ordered in design, workmanship or materials are of such a nature as to increase or decrease the cost of any part of the work, the price fixed in the Contract shall be increased or decreased by such amount as represents the reasonable and proper allowance for the increase or decrease in the cost of the work in accordance with the provisions of this Article, and any other applicable terms of the Contract, including, but not limited to, the Contractor's schedule of values and the price for allowances, if any. Except as provided by law, the total cost of all Modifications shall not exceed ten (10) percent of the original Contract price.
- 3) In the case of a disputed work item, the District may direct the Contractor to perform the disputed work at no additional cost to the District on the grounds that the work is adequately

indicated in the Contract Documents, and therefore already included in the Contract price. If the Contractor maintains that the disputed work represents a modification to the Contract, Contractor may submit a claim in accordance with Article 50, Resolution of Performance Claims. Notwithstanding any dispute regarding the requirements of the Contract Documents, Contractor shall promptly and fully comply with the District's directive. Contractor's failure to do so shall be deemed a material breach of this Contract, and in addition to all other remedies, District may, in its sole discretion, hire another contractor and/or use its own forces to complete the disputed work at Contractor's sole expense, and may deduct the cost of such work from the Contract price.

b. Cost Breakdown

When the Modification is proposed, the Contractor shall furnish a complete breakdown of actual costs of both credits and extras, itemizing materials, labor, taxes, overhead and profit. Subcontract work shall be so indicated. All costs must be fully documented. The following limitations shall apply:

1) Limitations Where Contract Price Changes are Involved

- (a) Overhead and Profit for the Contractor. The Contractor's overhead and profit on the cost of subcontracts shall be a sum not exceeding ten percent (10%) of such costs. The Contractor's overhead and profit on the costs of work performed by the Contractor shall be a sum not exceeding fifteen percent (15%) of such costs. Overhead and profit shall not be applied to the cost of taxes and insurance by Contractor or Subcontractors or to credits. No processing or similar fees may be charged by the Contractor in connection with the Modification.
- (b) Bond Premiums. The actual rate of bond premiums as paid on the total cost (including taxes, etc.) will be allowed, but with no markup for profit and overhead.
- (c) Taxes. State and city sales taxes should be indicated. Federal excise tax shall not be included. (District will issue exemption on request.)

2) Change Order Certification

All change orders and requests for proposed change orders shall be deemed to include the following certification by the Contractor:

"The undersigned Contractor approves the foregoing as to the changes in work, if any, and as to the contract price specified for each item and as to the extension of time allowed, if any, for completion of the Project as stated herein, and agrees to furnish all labor, materials, and service and to perform all work necessary to complete any additional work specified for the consideration stated herein. Submission of claims which have no basis in fact or which Contractor knows are false are made at the sole risk of the Contractor and may be a violation of the False Claims

Act, as set forth in Government Code §§ 12650 *et seq.* It is understood that the changes to the Contract Documents set forth herein shall only be effective upon approval 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 Contractor'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 herein are deemed waived."

c. Unit Prices, Schedule of Values, or Allowances

Where Unit Prices, a Schedule of Values, and/or Allowances are required by the Contract Documents, that pricing shall govern in computing any additions to or deductions from the Contract price on account of any added or omitted work. Unit Prices listed in the original bid include all costs and no addition of any description will be allowed.

d. Time and Materials

If it is impossible, because of the nature of the work, or for any other reason, to fix an increase in price definitely in advance, the Change Order may fix a maximum price which shall not under any circumstances be exceeded, and subject to such limitation, such alteration, modification or extra shall be paid for at the actual necessary cost as determined by the sum of the following items (1) to (5) inclusive:

- 1) Labor, including premium on compensation insurance and charge for Social Security taxes, and other taxes pertaining to labor.
- 2) Material, including sales taxes and other taxes pertaining to materials.
- 3) Plant and equipment rental, to be agreed upon in writing before the work is begun. No charge for the cost of repairs to plant or equipment will be allowed.
- 4) Overhead and profit computed at fifteen percent (15%) of the total of Items (1) to (3) inclusive.
- 5) The proportionate cost of premiums on bonds required by these Specifications, computed at one and one-half percent (1-1/2%) of the total of items (1) to (4) inclusive.

If the Time and Materials work is done by a Subcontractor, the amount shall be determined as set forth above under items (1) to (5) inclusive. The Contractor's overhead and profit on the costs of subcontracts (exclusive of taxes and insurance) shall not exceed ten percent (10%) of such costs.

The District reserves the right to furnish such materials as it may deem expedient and no allowance will be made for profit thereon. The above-described methods of determining the payment for work and materials shall not apply to the performance of any work or the furnishing of any material which, in the judgment of the District, may properly be classified under items for which prices are established in the Contract.

e. Oral Modifications

No oral statements of any person whatsoever shall in any manner or degree modify or otherwise affect the terms of the Contract.

29. INDEMNITY

Contractor shall defend with counsel acceptable to District, indemnify and hold harmless to the full extent permitted by law, the District and its Board of Trustees, officers, agents, project manager, employees and volunteers from and against any and all liability, loss, damage, claims, expenses, fines judgments and costs (including, without limitation, attorney's fees and costs and fees of litigation) (collectively, "Liability") of every nature arising out of or in connection with Contractor's performance of the Project or its failure to comply with any of its obligations contained in these Contract Documents, except such Liability caused by the active negligence, sole negligence or willful misconduct of the District. Such indemnification shall extend to all claims, demands, or liabilities occurring after completion of the project as well as during the progress of the work. Pursuant to California Public Contract Code §9201, District shall timely notify Contractor of receipt of any third-party claim relating to this Project.

30. WARRANTY OF TITLE

Contractor warrants that title to all work, materials or equipment included in a request for payment shall pass and transfer to the District whether or not they are installed or incorporated in the Project, free from any claims, liens or encumbrances, when such payment is made to the Contractor. Contractor further warrants that no such work, materials or equipment have been purchased for work under the Contract subject to an agreement by which an interest therein or an encumbrance thereon is retained by the seller or supplier.

31. USE OF COMPLETED PARTS OF THE WORK BEFORE ACCEPTANCE

Whenever the work or any part thereof is in a condition suitable for use, and the best interest of the District requires such use, the District may take possession of, connect to, open for public use, or use the work or a part thereof. When so used, maintenance and repairs due to ordinary wear and tear or vandalism will be made at District's expense. The use by the District of the work or part thereof as contemplated in this section shall in no case be construed as constituting acceptance of the work or any part thereof, including, but not limited to, the right to assess liquidated damages. Such use shall neither relieve the Contractor of any of Contractor's responsibilities under the Contract nor act as a waiver by the District of any of the conditions thereof. Contractor shall

continue to maintain all insurance, ~~including Builder's Risk insurance~~, on the entire Project, and diligently pursue full completion of the work.

32. GUARANTEE & WARRANTY

By signing this Contract, Contractor agrees to the following guarantee and warranty:

Guarantee & Warranty

Contractor hereby guarantees and warrants its work on the Project for a period of two (2) years from the date of the filing of Notice of Completion as follows.

Contractor shall promptly repair or replace to the satisfaction of the District any or all work that appears defective in workmanship, equipment and/or materials for whatever reason, ordinary wear and tear and unusual abuse or neglect excepted, together with any other work which may be damaged or displaced in so doing.

Contractor agrees to promptly correct and remedy any failure by the Contractor to conform its work, activities and services to the requirements of the Contract Documents.

In the event of the Contractor's failure to comply with the above-mentioned obligations within ten (10) calendar days of notice, or sooner if required by an emergency, Contractor hereby authorizes the District to have the defects or deficiencies repaired, remedied, corrected and made good at Contractor's expense, and Contractor shall pay the costs and charges therefore upon demand. The Surety agrees to be responsible for these costs and charges as well.

33. PROTECTION OF WORK AND PROPERTY

a. The Contractor shall be responsible for each operation and all work the Project, both permanent and temporary. The Contractor shall protect the work and materials from damage due to negligence, the action of the elements, the carelessness of third parties, vandalism, or any other cause whatever, until the final completion and acceptance of the Project. Should improper work by the Contractor be covered by another and damage or defects result, the whole work affected shall be made good by the Contractor to the satisfaction of the District without expense to the District. The Contractor shall take reasonable care to avoid damage to existing facilities or utilities, whether on the Project or adjacent to it, and Contractor shall be liable for any damage thereto or interruption of service due to Contractor's operations. If the Contractor encounters any facilities or utilities not shown on the drawings or not reasonably inferable therefrom, Contractor shall promptly notify the District about them, and shall do no further work which may cause damage to same. If it is determined that some action needs to be taken regarding facilities not shown, the Contractor will be given directives on what action to take, and any additional cost to the Contractor incurred thereby will be handled by Change Order.

b. The property limits of the area of the Project are indicated on the drawings. Except for work specifically shown or noted, Contractor shall confine Contractor's operations within the

indicated property limits. The Contractor shall provide, install, and maintain all shoring, bracing and underpinning necessary to support adjacent property, streets, buildings and structures that may be affected by building operations for this work; shall serve or cause to be served all legal notices to adjoining property Districts that may be necessary for their protection; and shall protect from damage all adjacent buildings, fences, landscaping, and repair or replace any such property damaged in the course of work under the Contract.

34. USE OF ROADWAYS AND WALKWAYS

The Contractor shall not unnecessarily interfere with use of any roadway; walkway or other facility for vehicular or pedestrian traffic by any party entitled to use it. Wherever such interference becomes necessary for the proper and convenient performance of the work and no satisfactory detour route exists, the Contractor shall, before beginning the interference, provide a satisfactory detour, temporary bridge, or other proper facility for traffic to pass around or over the interference and shall maintain it in satisfactory condition as long as the interference continues, all without extra payment unless otherwise expressly stipulated in the Contract Documents.

35. MATERIALS

- a. Unless explicitly stated otherwise, all specified equipment and material comprising the work of this Contract, as being provided or furnished or installed, shall imply the inclusion of all components, hardware and accessories, required for complete installation and satisfactory operation as intended by the manufacturer. Wherever the method of installation of any material is not explicitly specified, the installation shall be as recommended by manufacturer.
- b. Wherever in the Contract Documents it is provided that the Contractor shall furnish materials or equipment for which no detailed specifications are set forth, such materials or equipment shall be new and of the best grade for the purpose for which they will be used when incorporated in the work. Materials specified by reference to a number or symbol of a specific standard, such as A.S.M., Federal Specification, State Standard, Trade Association, or similar standards, shall comply with requirements in the latest revision thereof and any amendment or supplement in effect on the date of the notice inviting bids.
- c. None of the materials to be provided furnished or installed on this Project shall contain asbestos or any other "hazardous substance" as that term is defined by federal or state law.

36. SUBSTITUTIONS

- a. Wherever in the drawings or Specifications a material or product is called for by trade or brand names or manufacturer and model number, alternative items of equal quality and purpose may be proposed for use by the Contractor. The burden of proof of equality is on the Contractor, and Contractor shall furnish all information and supplies necessary for the District to make a thorough evaluation of the proposed substitution. The District's decision about the equality of the proposed substitution is final, and if the proposed substitution is not approved, the

Contractor shall install the item called for. Proposed substitutions and any changes in adjacent work caused by them shall be made by the Contractor at no additional cost to the District.

- b. Proposed substitutions shall be submitted sufficiently before actual need to allow time for thorough evaluation. Substitutions shall not be proposed for the reason that submittals were not made early enough to avoid delay. District's review of substitutions shall not relieve the Contractor from complying with the requirements of the drawings and Specifications.
- c. In the event Contractor makes substitutions in materials, equipment, or designs, with or without the District's approval, other than those authorized herein, the Contractor shall then assume full responsibility for the effects of such substitutions on the entire Project, including the design, and shall reimburse the District for any charges resulting from such substitutions, including any charges for modifications in the work of other trades, and including any charges for additional design, plus reasonable and customary mark-ups.

37. TESTING

- a. Materials, equipment, or other work requiring tests may be specified in the Contract Documents, and they shall be adequately identified and delivered to the site in ample time before intended use to allow for testing. If such materials, equipment or other work should be covered without required testing and approval, they shall be uncovered at the Contractor's expense, including any repairs or replacement resulting therefrom. The Contractor shall notify the District when and where such materials, equipment or other work are ready for testing, and Contractor shall bear the cost of making them available for testing. The Contractor shall notify the District sufficiently before the need for testing so as to cause no delay in the work and, in any case, at least forty-eight (48) hours prior to the need for testing.
- b. The cost of initial tests called for will be paid by the Contractor's manufacturer and will be performed by independent testing consultants retained by the Contractor. All other tests and inspections specified or otherwise required to substantiate compliance with specified requirements for quality of material or performance of operation shall be paid for by the Contractor. If retesting or additional testing is necessary because of substandard initial test results, the costs thereof shall be paid by the Contractor, including any repairs or replacement resulting therefrom.

38. INSPECTION

- a. All materials, equipment and workmanship used in the work of the Project shall be subject to inspection or testing at all times and locations during performance and/or manufacture. The District's authorized representatives and representatives of other agencies having authority over the work shall have access to the work for the above purposes at all reasonable times and locations. Any material or work found to be unsatisfactory or not according to the Contract Documents shall be replaced with the correct material or work and the defective items promptly removed, all at the Contractor's expense, when directed to do so by any of the above-named

persons having authority over the work. The cost review time and analysis by the District consultants necessitated by incomplete or defective work shall be charged to the Contractor.

- b. Inspection and testing by the District or manufacturer's representatives shall not relieve the Contractor from complying with the requirements of the Contract Documents. The Contractor is responsible for its own quality control.
- c. Whenever required by the District, the Contractor shall furnish all tools, labor and materials necessary to make an examination of work in place by uncovering the same. Should such work be found unsatisfactory, the cost of examination and reconstruction shall be paid by the Contractor. Should such work be found satisfactory, the cost of examination and reconstruction of the work shall be paid by Change Order unless the Contractor improperly covered the work before it could be inspected or tested. If the Contractor considers it necessary or desirable to work on Saturday, Sunday or a holiday, Contractor shall seek written approval from the District at least forty-eight (48) hours before the commencement of such work.

39. CLEANUP

- a. The Contractor shall maintain the premises and area of the work in a neat and clean condition. No burning of rubbish on site shall be allowed. The Contractor shall control dust on the site by sprinkling at whatever intervals are necessary to keep it laid down and shall take measures to prevent dust and debris from being accidentally transported outside the area of the work.
- b. Final cleaning, such as sweeping, dusting, vacuuming, dry and wet mopping, polishing, sealing, waxing and other finish operations normally required on newly installed work shall be taken to indicate the finished conditions of the various new and existing surfaces at the time of acceptance. Prior to the time of acceptance, all marks, stains, fingerprints, dust, dirt, splattered paint and blemishes resulting from the various operations shall be removed throughout the Project. Plumbing fixtures and light fixtures shall be washed clean. Hardware and other unpainted metals shall be cleaned and all building papers and other temporary protections shall be removed throughout the building, or portion of the building where Contractor was involved, all to the satisfaction of the District. The exterior of the buildings, playfields, exterior improvements, and planting spaces shall be similarly clean and in good order.

40. CONSTRUCTION WASTE MANAGEMENT REQUIREMENTS

- a. District's Zero-Waste Program Initiative
 - 1) The District is rigorously implementing sustainability initiatives that reduce, reuse, and recycle District materials.

- 2) The relevance of this important initiative is for the District to employ environmentally responsible Zero-Waste recycling strategies for all discarded materials; and in this pursuit formulate relationships with vendors, contractors and refuse haulers to keep District recyclable commodities away from landfills.

b. Contractor Scope

- 1) This Article includes the requirements for the diversion by the Contractor of construction and demolition debris from landfills. The Contractor shall develop and implement a Waste Management Plan as specified herein. The Contractor shall take a pro-active, responsible role in the management of construction and demolition waste and require all subcontractors, vendors, and suppliers to participate in the effort.
- 2) The District has established that this Project shall generate the least amount of waste practicable and that processes shall be utilized that ensure the generation of as little waste as possible due to over-packaging, error, poor planning, breakage, mishandling, contamination or other factors.
- 3) As much of the waste materials as economically feasible shall be reused, salvaged or recycled. Waste disposal in landfills shall be minimized.
- 4) The Contractor is encouraged to use waste hauling companies that separate recyclable materials. The Contractor shall work with its waste haulers in providing other recycling methods as appropriate.
- 5) The Contractor is responsible for implementation of any special programs involving rebates or similar incentives related to the recycling of waste. Revenues or other savings obtained for salvage or recycling accrue to the Contractor.

c. References

- 1) "Builders' Guide to Reuse and Recycling, A Directory for Construction and Demolition Materials."
- 2) "Construction Site Recycling, a Guide for Building Contractors." For a copy of the guide call 1-888-442-2666 or go to www.recycleworks.org.
- 3) "Where to Recycle Construction and Demolition Debris." For a copy of the guide call 1-888-442-2666 or go to www.recycleworks.org.

d. Definitions

- 1) General: Construction and demolition waste includes products of demolition or removal, excess or unusable construction materials, packaging materials for construction products, and other materials generated during the construction process but not incorporated into the work.
- 2) "Divert" means to use material for any lawful purpose other than disposal in a landfill or transfer facility for disposal.

- 3) "Recycling Service" means an off-site service that provides processing of material and diversion from a landfill.
 - 4) "Hauler" means the entity that transports construction and demolition debris to either a landfill or a recycling service.
- e. Compliance with regulatory requirements:
- 1) The Contractor shall perform all handling, storage, transportation and disposal of construction debris in compliance with all applicable Federal, State, regional, and local statutes, laws, regulations, rules, ordinances, codes and standards.
 - 2) Nothing stated on the drawings, in this Article 40 or in any other provision of the Contract Documents shall be construed as allowing work that is not in strict compliance with all applicable Federal, State, regional, and local statutes, laws, regulations, rules, ordinances, codes and standards.
- f. Performance Requirement
- 1) The Contractor shall divert a minimum of fifty percent (50%) of the total Project construction and demolition waste from landfills.
- g. Quality Control
- 1) General:
 - i) The Contractor shall not permit materials designated for diversion to become contaminated or to contaminate the site or surrounding areas.
 - 2) Training and Coordination:
 - i) The Contractor shall designate an on-site party [or parties] who will be responsible for instructing workers and subcontractors, and overseeing and documenting results of the Waste Management Plan for the Project.
 - ii) The Contractor shall furnish copies of the Waste Management Plan to all on-site supervisors, each subcontractor, and the District's representative.
 - iii) The Contractor shall include construction waste management as an item on the agenda of all progress meetings.

3) The Waste Management Plan:

- i) The Contractor shall prepare a Waste Management Plan for diverting the specified percentage of construction debris from landfills, including written and graphic information indicating how the waste will be diverted.
- ii) Include in the plan both on-site recycling of construction and debris and off-site diversion from landfills.
- iii) Identify the means and methods for collecting and separating each type of debris deemed reusable or recyclable.
- iv) List the off-site recycling service and hauler of each designated debris item who has agreed to accept and divert that item from the landfill in the proposed quantities anticipated. List the service and hauler company name, address, telephone number and persons contacted.
- v) List the name of the individuals on the Contractor's staff responsible for waste prevention and management.
- vi) List the actions that will be taken to reduce solid waste generation, including coordination with subcontractors to ensure awareness and participation.
- vii) Describe the specific approaches to be used in recycling/reuse of the various materials generated, including the areas on site an equipment to be used for processing, sorting, and temporary storage of wastes.
- viii) Characterize the waste to be generated, including estimated types and quantities. Name the landfills and/or incinerator to be used.
- ix) List the specific waste materials that will be salvaged for resale, salvaged and reused on the Project, salvaged and stored for reuse on a future project, or recycled. Recycling facilities that will be used shall be identified by name, location and phone number.

The Contractor shall submit the Plan to the District within ten (10) calendar days after receipt of the Notice to Proceed, or prior to any waste removal, whichever occurs first. The Contractor shall promptly revise and resubmit the Plan as required by the District. Review of the Contractor's Waste Management Plan will not relieve the Contractor of responsibility for compliance with applicable environmental regulations or meeting Project diversion requirements.

h. Plan Implementation

- 1) The Contractor shall implement the approved Waste Management Plan.

- 2) The Contractor shall maintain a log of each load and of each category of waste that is diverted from the landfill. The Contractor shall separately log the debris sent to a Class III landfill and materials sent to a recycling facility.
- 3) The Contractor shall include in the log the type of load, load weight, name of the hauling service, recycling service or landfill, and the date accepted by the recycling service or by the landfill.
- 4) The Contractor shall retain and make available all weight tickets and copies of receipts and invoices relating to the implementation of the Plan.
- 5) The District reserves the right to audit the log at any time.

i. Material Handling

- 1) Designate a specific area or areas on site to facilitate the separation of materials for potential reuse, salvage, recycling, and return. Clearly mark bins for each category of waste.
- 2) Keep waste bins and pile areas neat and clean. Do not contaminate non-recyclable waste with materials designated for reuse or recycling.

j. Contractor's Responsibilities

- 1) Provide on-site instruction of the appropriate separation, handling, recycling, salvage, reuse, and return methods to be used by all parties at the appropriate stages of the Project.
- 2) Separate, store, protect, and handle at the site identified recyclable and salvageable waste products in a manner that maximizes recyclability and salvage-ability of identified materials. Provide the necessary containers, bins and storage areas to facilitate effective waste management. Provide barriers and enclosures around recyclable material storage areas which are non-hazardous and recyclable or reusable and which shall be located away from construction traffic. Provide adequate space for pick-up and delivery. Use cleaning materials that are non-hazardous and biodegradable.

41. INSTRUCTIONS AND MANUALS

The maintenance instructions application/installation instructions and service manuals called for in the Specifications shall be part of the Submittal/Contract Closeout process.

42. DRAWINGS

The Contractor and all their Subcontractors will maintain on the work site a separate complete set of contract drawings, which will be used solely for the purpose of recording changes made in any portion of the work during the course of the project, regardless of the reason for the change. As changes occur, there will be included or marked on this record set on a daily basis if necessary to keep them up to date at all times. Actual locations to scale shall be identified on the drawings for all runs of mechanical and electrical work, including all site utilities installed underground, in walls, floors, and furred spaces, or otherwise

concealed. Deviations from the drawings shall be shown in detail. All main runs, whether piping, conduit, ductwork, drain lines, etc., shall be located in addition by dimension and elevation. Progress payments may be delayed or withheld until such time as the record set is brought up to date to the satisfaction of the District. The Contractor shall verify that all changes in the work are included in the "AS-BUILT" drawings and deliver the complete set thereof to the District for review and approval within thirty (30)-calendar days after District's Notice of Completion. District's acceptance and approval of the "AS-BUILT" drawings are a necessary condition precedent to the release of the final retention.

43. NO DISCRIMINATION

It is the policy of the District that, in connection with all work performed under this public works contracts, there shall be no discrimination against any prospective or active employee or any other person engaged in the work because of actual or perceived race, color, ancestry, national origin, ethnic group identification, religion, sex, gender, sexual orientation, age, physical or mental disability, or marital status. The Contractor agrees to comply with applicable Federal and California laws including, but not limited to, the California Fair Employment Practice Act, beginning with Government Code §12900, Government Code §11135, and Labor Code §§1735, 1777.5, 1777.6 and 3077.5. In addition, the Contractor agrees to require like compliance by any Subcontractors employed on the work.

44. LABOR STANDARDS

a. Work Hours:

In accordance with California Labor Code §1810, eight (8) hours of labor shall constitute a legal day's work under this Contract. Contractor and any Subcontractor shall pay workers overtime pay as required by California Labor Code §1815. The Contractor shall pay each worker, laborer, mechanic or persons performing work under this Contract at a rate not less than the prevailing wage for each craft or classification covering the work actually performed.

b. Penalty:

Contractor shall forfeit to District as a penalty the sum of twenty-five dollars (\$25.00) for each worker employed in the execution of this Contract by Contractor or any Subcontractor for each calendar day during which said worker is required or permitted to work more than eight (8) hours in any one (1) calendar day or more than forty (40) hours per calendar week in violation of Article 3, Division 2, Part 7, Chapter 1 of the California Labor Code.

c. Employment of Apprentices:

Contractor agrees to comply with Labor Code §§1773.3, 1777.5 and 1777.6, and 3077 *et. seq.*, each of which is incorporated by reference into this Contract. These sections require that Contractors and Subcontractors employ apprentices in apprenticeable occupations in a ratio of not less than one (1) hour of apprentice work for every five (5) hours of labor performed by a journeyman, unless an exception is granted and that Contractors and Subcontractors shall not

discriminate against otherwise qualified employees as apprentices on any public works solely on the ground of actual or perceived race, religion, color, national origin, ethnic group identification, sex, gender, sexual orientation, age, or physical or mental disability. Only apprentices who are in training underwritten apprenticeship occupations shall be employed. The responsibility for compliance with these provisions for all apprenticeable occupations rests with Contractor.

- d. The Contractor shall be knowledgeable of and comply with California Labor Code §§1727, 1773.5, 1775, 1777, 1777.5, 1810, 1813, 1860, including all amendments thereto; each of these sections is incorporated by reference into this Contract.

45. GENERAL RATE OF PER DIEM WAGES

a. On File:

As required by Labor Code §1773.2, the District has available copies of the general prevailing rate of per diem wages for workers employed on public work as determined by the Director of the Department of Industrial Relations, which shall be available to any interested party on request. Contractor shall post a copy of the document at each job site.

b. Prevailing Wage Rate:

The Contractor and each Subcontractor shall pay each worker performing work under this Contract at a rate not less than the prevailing wage as defined in Labor Code §§1771 and 1774 and §16000(a) of Title 8, California Code of Regulations.

c. Penalty:

In accordance with §1775 of the Labor Code, the Contractor shall forfeit to the District as penalty, the sum of fifty dollars (\$50) for each calendar day, or portion thereof, for each worker paid less than the prevailing wage rates, as determined by the Director of the California Department of Industrial Relations, for any work done under this Contract by Contractor or by any Subcontractor. Contractor shall also pay each worker the difference between the stipulated prevailing wages rates and the amount actually paid to such worker.

46. RECORD KEEPING

- a. The Contractor agrees to comply with the provisions of §§1776 and 1812 of the Labor Code. The Contractor and each Subcontractor shall keep or cause to be kept an accurate record showing the names, addresses, social security numbers, work classifications, straight time and overtime hours worked each day and week of all workers employed by Contractor in connection with the execution of this Contract or any subcontract thereunder and showing the actual per diem wages paid to each of such workers. These records shall be certified and shall be reviewable at all reasonable hours to the inspection of the District awarding the Contract, its officers and agents, and to the Chief of the Division of Labor Statistics and Law Enforcement of the State

Department of Industrial Law Enforcement of the State Department of Industrial Relations, and their other deputies and agents.

- b. In addition, copies of the above records shall be available as follows:
- 1) A certified copy of an employee's payroll record shall be made available for inspection or furnished to the employee or his or her authorized representative on request;
 - 2) A certified copy of all payroll records shall be made available for inspection or furnished upon request to the District, the Division of Labor Standards Enforcement, and the Division of Apprenticeship Standards of the Department of Industrial Relations;
 - 3) A certified copy of all payroll records 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, the Division of Apprenticeship Standards, or the Division of Labor Standards Enforcement. If the requested payroll records have not been previously provided, the requesting party shall, prior to being provided the records, reimburse the costs of the Contractor, 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 the Contractor.
- c. The Contractor shall file a certified copy of the records with the entity requesting the records within ten days after receipt of a written request. Any copy of records made available for inspection as copies and furnished upon request to the public or any public agency by the District, 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 the Contractor awarded the Contract or performing the Contract shall not be marked or obliterated.
- d. The Contractor shall inform the District of the location of the records, including the street address, city and county, and shall, within five (5) working days, provide a notice of a change of location and address.
- e. In the event of noncompliance with the requirements of this section, the Contractor shall have ten days in which to comply subsequent to receipt of written notice specifying in what respects the Contractor must comply with this section. Should noncompliance still be evident after the ten (10) day period, the Contractor shall, as a penalty to the District, forfeit twenty-five dollars (\$25) for each calendar day, or portion thereof, for each worker, until strict compliance is effectuated. Upon the request of the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement, these penalties shall be withheld from progress payments then due.
- f. Responsibility for compliance with this provision shall be with the Contractor.

47. PROJECT COMPLETION

- a. When the work to be performed under this Contract has been fully completed, the Contractor shall notify the District, in writing, setting a date for inspection. The Contractor and Subcontractor representatives shall attend the inspection. As a result of this inspection, the District will prepare a list of items (“punch list”) that are incomplete or not installed according to Contract Documents. Failure to include items of this list does not relieve the Contractor from fulfilling all requirements of the Contract Documents.
- b. The District will promptly deliver the punch list to the Contractor and it will include a period of time by which the Contractor shall complete all items listed thereon. On completion of all items on the punch list, verified by a final inspection, and all other Contract requirements, so that Final Completion has been achieved to the District’s satisfaction, the District will file a Notice of Completion with the County Recorder. Payment of retention from the Contract, less any sums withheld pursuant to the terms of this Contract or applicable law, shall not be made sooner than thirty-five (35) calendar days after the date of filing of Notice of Completion.

48. RESOLUTION OF PROJECT PERFORMANCE CLAIMS

- a. Public work claims of \$375,000 or less between Contractor and District are subject to the provisions of Article 1.5 (commencing with §20104) of Chapter 1 of Part 2 of the Public Contract Code (“Article 1.5 claim”). For purposes of this section and Article 1.5, "public work" has the same meaning as set forth in §§3100 and 3106 of the Civil Code; "claims" means a separate demand by Contractor for a time extension or payment of money or damages arising from work done by or on behalf of Contractor pursuant to the Contract and payment of which is not otherwise expressly provided for or the claimant is not otherwise entitled to or the amount of the payment which is disputed by the District.
- b. All Article 1.5 claims shall be submitted on or before the date of the Final Payment and shall include all documents necessary to substantiate the claim. District shall respond in writing within forty-five (45) days of receipt of claim if the claim is less than or equal to \$50,000 (“\$50,000 claim”) or within sixty (60) days if the claim is over \$50,000 but less than or equal to \$375,000 (“\$50,000 - \$375,000 claim”). In either case, District may request in writing within thirty (30) days of receipt of claim any additional documentation supporting the claim or relating to any defenses to the claim, which the District may have against the Contractor. Any additional information shall be requested and provided upon mutual agreement of the District and the Contractor. District’s written response to the claim shall be submitted to Contractor within fifteen (15) days after receipt of the further documentation for \$50,000 claims or within thirty (30) days after receipt of the further documentation for \$50,000 - \$375,000 claims or within a period of time no greater than that taken by the Contractor in producing the additional information, whichever is greater.
- c. Within fifteen (15) days of receipt of the District’s response, if Contractor disputes the District’s written response, or within fifteen (15) days of the District’s failure to respond within the time prescribed, the Contractor shall provide written notification to District demanding an informal

conference to meet and confer ("conference") to be scheduled by District within thirty (30) days. Following the conference, if any claim or portion remains in dispute, the Contractor may file a claim as provided in Chapter 1 (commencing with §900) and Chapter 2 (commencing with §910) of Part 3 of Division 3.6 of Title 1 of the Government Code. For purposes of those provisions, the period of time within which a claim must be filed is tolled from the time the claimant submits a written claim pursuant to this section until the time that claim is denied as a result of the conference process, including any period of time utilized by the meet and confer process.

- d. Pursuant to Public Contract Code §20104.2(f), this section does not apply to tort claims and does not change the period for filing tort claims or actions specified by Chapter 1 (commencing with §900) and Chapter 2 (commencing with §910) of Part 3 of Division 3.6 of Title 1 of the Government Code.
- e. If a civil action is filed, within sixty (60) days, but no earlier than thirty (30) days, following the filing of responsive pleadings, the court shall submit the matter to nonbinding mediation unless waived by mutual stipulation of both parties. The mediation process shall provide that both parties select a disinterested third person mediator within fifteen (15) days, shall be commenced within thirty (30) days of the submittal, and shall be concluded within fifteen (15) days of the commencement of the mediation unless time is extended upon a good cause showing to the court or by stipulation of the parties. If the parties fail to select a mediator within the fifteen (15) day period, any party may petition the court to appoint the mediator.
- f. If the matter remains in dispute, the case shall be submitted to judicial arbitration as set forth in Public Contract Code §20104.4 (b)(1) through (b)(3).
- g. For any claim in excess of \$375,000, the Contractor and the District shall follow the same process as for an Article 1.5 claim. The District will forward a response within sixty (60) days of submittal of any such claim. Judicial arbitration is not required for claims in excess of \$375,000.
- h. In addition, for all unresolved claims that the Contractor wishes to pursue, the Contractor shall file a timely claim pursuant to the Government Claims Act and shall otherwise comply with the procedures set forth in that Act prior to commencing any litigation against the District. The accrual date for any such claim is the date the dispute or controversy first arose regarding the issued raised in the claim.
- i. "The date of Final Payment," as used in this Article 50, means the date the public entity is required to release retention proceeds in accordance with Public Contract Code §7107 regardless of whether any payment is made to the Contractor at that time.
- j. The claims required by this Article are jurisdictional and conditions precedent to the commencement of any further legal proceedings. Strict compliance with all filing deadlines is mandatory.

49. GENERAL PROVISIONS

a. Assignment and Successors:

Neither party may transfer or assign its rights or obligations under the Contract Documents, in part or in whole, without the other party's prior written consent. The Contract Documents are binding on the heirs, successors, and permitted assigns of the parties hereto.

b. Third Party Beneficiaries:

There are no intended third party beneficiaries to the Contract.

c. Choice of Law and Venue

The Contract Documents shall be governed by California law, and venue shall be in the Superior Court of the county in which the Project is located, and no other place.

d. Severability

If any provision of the Contract Documents are determined to be illegal, invalid, or unenforceable, in part or in whole, the remaining provisions, or portions of the Contract Documents shall remain in full force and effect.

e. Entire Agreement

The Contract Documents constitute the final, complete, and exclusive statement of the terms of the agreement between the parties regarding the subject matter of the Contract Documents and supersedes all prior written or oral understandings or agreements of the parties.

f. Waiver

No waiver of a breach, failure of any condition, or any right or remedy contained in or granted by the provisions of the Contract Documents shall be effective unless it is in writing and signed by the party waiving the breach, failure, right, or remedy. No waiver of any breach, failure, right, or remedy shall be deemed a waiver of any other breach, failure, right, or remedy, whether or not similar, nor shall any waiver constitute a continuing waiver unless the writing so specifies.

g. Headings

The headings in the Contract Documents are included for convenience only and shall neither affect the performance or interpretation of any provision in the Contract Documents nor affect any of the rights or obligations of the parties to the Contract.

DOCUMENT 01 50 00

TEMPORARY FACILITIES AND CONTROLS**PART 1 – GENERAL****1.01 RELATED DOCUMENTS AND PROVISIONS:**

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions;
- B. Special Conditions;

1.02 TEMPORARY UTILITIES:**A. Electric Power and Lighting**

- (1) Contractor will pay for power during the course of the Work. To the extent power is available in the building(s) or on the Site, the Contractor may use the District's existing utilities at no cost to the Contractor. Contractor shall be responsible for providing temporary facilities required to deliver that power service from its existing location in the building(s) or on the Site to point of intended use.
- (2) Contractor shall verify characteristics of power available in building(s) or on the Site. Contractor shall take all actions required to make modifications where power of higher voltage or different phases of current are required. Contractor shall be fully responsible for providing that service and shall pay all costs required therefor.
- (3) Contractor 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.
- (4) Contractor shall be responsible for maintaining existing lighting levels in the project vicinity should temporary outages or service interruptions occur.

B. Water

- (1) Contractor will pay for water during the course of the Work. To the extent water is then available in the building(s) or on the Site, Contractor may use the District's existing utilities by making prearranged payments to the District for the utilities used by Contractor and all Subcontractors. Contractor shall be responsible for providing temporary facilities required to deliver such utility service from its existing location in the building(s) or on the Site to point of intended use.
- (2) Contractor shall use backflow preventers on water lines at point of connection to District's water supply. Backflow preventers shall comply with requirements of Uniform Plumbing Code.
- (3) Contractor shall make potable water available for human consumption.

1.50 – Temporary Facilities and Controls

C. Sanitary Facilities

- (1) Contractor 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 Inspector or Contractor completes all other work at the Site.
- (2) Use of toilet facilities in the Work under construction shall not be permitted.

D. Fire Protection:

- (1) Contractor 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. The Contractor shall coordinate with Jacobs PM and the Kentfield Fire Protection District for specific requirements.
- (2) Where on-site welding and burning of steel is unavoidable, Contractor shall provide protection for adjacent surfaces.

E. Trash Removal:

- (1) Contractor shall provide trash removal on a timely basis.

1.03 CONSTRUCTION AIDS:

- A. None of the District's tools and equipment shall be used by Contractor for the performance of the Work.

1.04 BARRIERS AND ENCLOSURES:

- A. Contractor shall obtain the District's written permission for locations and types of temporary barriers and enclosures, including fire-rated materials proposed for use, prior to their installation.
- B. Contractor 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, the public, and workers. Contractor shall also protect the Work and existing facilities from the elements, and adjacent construction and improvements, persons, and trees and plants from damage and injury from demolition and construction operations.
- C. Contractor 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.
- D. Tree and Plant Protection:
 - (1) Contractor shall preserve and protect existing trees and plants on the Premises that are not designated or required to be removed, and those adjacent to the Premises.
 - (2) Contractor shall provide barriers to a minimum height of 4'-0" around drip line of each tree and plant, around each group of trees and plants, as applicable, in the proximity of demolition and construction operations.

1.50 – Temporary Facilities and Controls

- (3) Contractor shall not park trucks, store materials, perform Work or cross over landscaped areas. Contractor shall not dispose of paint thinners, water from cleaning, plastering or concrete operations, or other deleterious materials in landscaped areas, storm drain systems, or sewers. Plant materials damaged as a result of the performance of the Work shall, at the option of the District and at Contractor's expense, either be replaced with new plant materials equal in size to those damaged or by payment of an amount representing the value of the damaged materials as determined by the District.
- (4) Contractor shall remove soil that has been contaminated during the performance of the Work by oil, solvents, and other materials which could be harmful to trees and plants, and replace with good soil, at Contractor's expense.
- (5) Excavation Around Trees:
 - (a) Excavation within drip lines of trees shall be done only where absolutely necessary and with written permission from the District.
 - (b) Where trenching for utilities is required within drip lines, tunneling under and around roots shall be by hand digging and shall be approved by the District. Main lateral roots and taproots shall not be cut. All roots 2 inches in diameter and larger shall be tunneled under and heavily wrapped with wet burlap so as to prevent scarring or excessive drying. Smaller roots that interfere with installation of new work may be cut with prior approval by the District. Roots must first be cut with a Vermeer, or equivalent, root cutter prior to any trenching.
 - (c) Where excavation for new construction is required within drip line of trees, hand excavation shall be employed to minimize damage to root system. Roots shall be relocated in backfill areas wherever possible. If encountered immediately adjacent to location of new construction, roots shall be cut approximately 6 inches back from new construction.
 - (d) Approved excavations shall be carefully backfilled with the excavated materials approved for backfilling. Backfill shall conform to adjacent grades without dips, sunken areas, humps, or other surface irregularities. Do not use mechanical equipment to compact backfill. Tamp carefully using hand tools, refilling and tamping until Final Acceptance as necessary to offset settlement.
 - (e) Exposed roots shall not be allowed to dry out before permanent backfill is placed. Temporary earth cover shall be provided, or roots shall be wrapped with four layers of wet, untreated burlap and temporarily supported and protected from damage until permanently relocated and covered with backfill.
 - (f) Accidentally broken roots should be sawed cleanly 3 inches behind ragged end.

1.05 SECURITY:

The Contractor shall be responsible for project security for materials, tools, equipment, supplies, and completed and partially completed Work.

1.50 – Temporary Facilities and Controls

1.06 TEMPORARY CONTROLS:

A. Noise Control

- (1) Contractor acknowledges that adjacent facilities may remain in operation during all or a portion of the Work period, and it shall take all reasonable precautions to minimize noise as required by applicable laws and the Contract Documents.
- (2) Notice of proposed noisy operations, including without limitation, operation of pneumatic demolition tools, concrete saws, and other equipment, shall be submitted to the District a minimum of forty-eight (48) hours in advance of their performance.

B. Noise and Vibration

- (1) Equipment and impact tools shall have intake and exhaust mufflers.
- (2) Contractor shall cooperate with District to minimize and/or cease the use of noisy and vibratory equipment if that equipment becomes objectionable by its longevity.

C. Dust and Dirt

- (1) Contractor 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.
- (2) Contractor shall periodically water exterior demolition and construction areas to minimize the generation of dust and dirt.
- (3) Contractor 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.
- (4) Contractor shall prevent dust and dirt from accumulating on walks, roadways, parking areas, and planting, and from washing into sewer and storm drain lines.

D. Water

Contractor shall not permit surface and subsurface water, and other liquids, to accumulate in or about the vicinity of the Premises. Should accumulation develop, Contractor 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.

E. Pollution

- (1) No burning of refuse, debris, or other materials shall be permitted on or in the vicinity of the Premises.
- (2) Contractor shall comply with applicable regulatory requirements and anti-pollution ordinances during the conduct of the Work including, without limitation, demolition, construction, and disposal operations.

F. Lighting

- (1) If portable lights are used after dark, all light must be located so as not to direct light into neighboring property.

1.07 JOB SIGN(S):

A. General:

- (1) Contractor may provide and maintain a Project identification sign with the design, text, and colors designated by the District and/or the Architect; locate sign as approved by the District.
- (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.

1.08 PUBLICITY RELEASES:

- A. Contractor 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).

PART 2 – PRODUCTS Not used.

PART 3 – EXECUTION Not used.

END OF DOCUMENT

2.1 SUMMARY OF WORK

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

C. General Conditions, including, without limitation, Site Access Conditions and Requirements;

~~D. Special Conditions.~~

1.02 SUMMARY OF WORK COVERED BY CONTRACT DOCUMENTS

A. The Work of this Contract consists of the following:

Repairs/Replacement of selected retaining walls **and associated fencing** along the Perimeter Road of the Indian Valley Campus of the College of Marin. The campus currently has **eight (8)** walls that are considered failing. The contract documents details also include details for replacement for street lighting poles that may be impacted by the work.

Work must be completed by March 15, 2017.

1.03 CONTRACTS

A. Perform the Work under a single, fixed-price Contract.

1.04 WORK BY OTHERS

A. Work on the Project that will be performed and completed prior to the start of the Work of this Contract:

(1) **NONE**

B. Work on the Project that will be performed by others concurrent with the Work of this Contract:

(1) **NONE KNOWN**

1.05 CODES, REGULATIONS, AND STANDARDS

A. The codes, regulations, and standards adopted by the state and federal agencies having jurisdiction shall govern minimum requirements for this project. Where codes, regulations, and standards conflict with the Contract Documents, these conflicts shall be brought to the immediate attention of the District and the Architect.

B. Codes, regulations, and standards shall be as published effective as of date of bid opening, unless otherwise specified or indicated.

1.06 PROJECT RECORD DOCUMENTS:

- A. Contractor shall maintain on Site one set of the following record documents; Contractor shall record actual revisions to the Work:
 - (1) Contract Drawings.
 - (2) Specifications.
 - (3) Addenda.
 - (4) Change Orders and other modifications to the Contract.
 - (5) Reviewed shop drawings, product data, and samples.
 - (6) Field test records.
 - (7) Inspection certificates.
 - (8) Manufacturer's certificates.
- B. Contractor shall store Record Documents separate from documents used for construction. Provide files, racks, and secure storage for Record Documents and samples.
- C. Contractor shall record information concurrent with construction progress.
- D. Specifications: Contractor shall legibly mark and record at each product section of the Specifications the description of the actual product(s) installed, including the following:
 - (1) Manufacturer's name and product model and number.
 - (2) Product substitutions or alternates utilized.
 - (3) Changes made by Addenda and Change Orders and written directives.

1.07 EXAMINATION OF EXISTING CONDITIONS

- A. Contractor shall be held to have examined the Project Site and acquainted itself with the conditions of the Site or of the streets or roads approaching the Site.
- B. Prior to commencement of Work, Contractor shall survey the Site and existing buildings and improvements to observe existing damage and defects such as cracks, sags, broken, missing or damaged glazing, other building elements and Site improvements, and other damage.
- C. Should Contractor observe cracks, sags, and other damage to and defects of the Site and adjacent buildings, paving, and other items not indicated in the Contract Documents, Contractor shall immediately report same to the District and the Architect.

1.08 CONTRACTOR'S USE OF PREMISES

- ~~A. If unoccupied and only with District's prior written approval, Contractor may use the building(s) at the Project Site without limitation for its operations, storage, and office facilities for the performance of the Work. If the District chooses to beneficially occupy any building(s), Contractor must obtain the District's written approval for Contractor's use of spaces and types of operations to be performed within the building(s) while so occupied. Contractor's access to the building(s) shall be limited to the areas indicated.~~
- B. If the space at the Project Site is not sufficient for Contractor's operations, storage, office facilities and/or parking, Contractor shall arrange and pay for any additional facilities needed by Contractor.
- C. Contractor shall not interfere with use of or access to occupied portions of the building(s) or adjacent property.
- ~~D. Contractor shall maintain corridors, stairs, halls, and other exit ways of buildings clear and free of debris and obstructions at all times.~~
- E. No one other than those directly involved in the demolition and construction, or specifically designated by the District or the Engineer shall be permitted in the areas of work during demolition and construction activities.
- F. The Contractor shall install the construction security fence and maintain that it will be locked when not in use. Keys to this fencing will be provided to the District.

1.09 PROTECTION OF EXISTING STRUCTURES AND UTILITIES

- A. The Drawings show above-grade and below-grade structures, utility lines, and other installations that are known or believed to exist in the area of the Work. Contractor shall locate these existing installations before proceeding with excavation and other operations that could damage same; maintain them in service, where appropriate; and repair damage to them caused by the performance of the Work. Should damage occur to these existing installations, the costs of repair shall be at the Contractor's expense and made to the District's satisfaction.
- B. Contractor shall be alert to the possibility of the existence of additional structures and utilities. If Contractor encounters additional structures and utilities, Contractor will immediately report to the District for disposition of same as indicated in the General Conditions.

1.10 UTILITY SHUTDOWNS AND INTERRUPTIONS

- A. Contractor shall give the District a minimum of three (3) days written notice in advance of any need to shut off existing utility services or to effect equipment interruptions. The District will set exact time and duration for shutdown, and will assist Contractor with shutdown. Work required to re-establish utility services shall be performed by the Contractor.

2.1 – SUMMARY OF WORK

- B. Contractor shall obtain District's written approval as indicated in the General Conditions in advance of deliveries of material or equipment or other activities that may conflict with District's use of the building(s) or adjacent facilities.

1.11 STRUCTURAL INTEGRITY

- A. Contractor shall be responsible for and supervise each operation and work that could affect structural integrity of various building elements, both permanent and temporary.
- B. Contractor shall include structural connections and fastenings as indicated or required for complete performance of the Work.

PART 2 – PRODUCTS Not Used.

PART 3 – EXECUTION Not Used.

END OF DOCUMENT

2.2 PRODUCT OPTIONS AND SUBSTITUTIONS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. Instructions to Bidders;
- B. General Conditions, including, without limitation, Substitutions For Specified Items;
- ~~C. Special Conditions.~~

1.02 SUBSTITUTIONS OF MATERIALS AND EQUIPMENT:

- A. Catalog numbers and specific brands or trade names followed by the designation "or equal" are used in conjunction with material and equipment required by the Specifications to establish the standards of quality, utility, and appearance required. Substitutions which are equal in quality, utility, and appearance to those specified may be reviewed subject to the provisions of the General Conditions.
- B. Wherever more than one manufacturer's product is specified, the first-named product is the basis for the design used in the work and the use of alternative-named manufacturers' products or substitutes may require modifications in that design. If such alternatives are proposed by Contractor and are approved by the District and/or the Architect, Contractor shall assume all costs required to make necessary revisions and modifications of the design resulting from the substitutions requested by the Contractor.
- C. When materials and equipment are specified by first manufacturer's name and product number, second manufacturer's name and "or approved equal," supporting data for the second product, if proposed by Contractor, shall be submitted in accordance with the requirements for substitutions.
- D. If the District and/or Architect, in reviewing proposed substitute materials and equipment, require revisions or corrections to be made to previously accepted Shop Drawings and supplemental supporting data to be resubmitted, Contractor shall promptly do so. If any proposed substitution is judged by the District and/or Architect to be unacceptable, the specified material or equipment shall be provided.
- E. Samples may be required. Tests required by the District and/or Architect for the determination of quality and utility shall be made at the expense of Contractor, with acceptance of the test procedure first given by the District.

- F. In reviewing the supporting data submitted for substitutions, the District and/or Architect will use for purposes of comparison all the characteristics of the specified material or equipment as they appear in the manufacturer's published data even though all the characteristics may not have been particularly mentioned in the Contract Documents. If more than two (2) submissions of supporting data are required, the cost of reviewing the additional supporting data shall be borne by Contractor, and the District will deduct the costs from the Contract Price.

PART 2 – PRODUCTS Not Used.

PART 3 – EXECUTION Not Used.

END OF DOCUMENT

2.3 CHANGES IN THE WORK

CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE PROVISIONS IN THE GENERAL CONDITIONS RELATED TO CHANGES AND/OR REQUESTS FOR CHANGES

END OF DOCUMENT

2.4 SUBMITTALS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

A. General Conditions, including, without limitation, Contractor's Submittals and Schedules, Drawings and Specifications;

~~B. Special Conditions.~~

1.02 SECTION INCLUDES:

A. Definitions:

(1) Shop Drawings and Product Data are as indicated in the General Conditions and include, but are not limited to, fabrication, erection, layout and setting drawings, formwork and falsework drawings, manufacturers' standard drawings, descriptive literature, catalogues, brochures, performance and test data, wiring and control diagrams. In addition, there are other drawings and descriptive data pertaining to materials, equipment, piping, duct and conduit systems, and methods of construction as may be required to show that the materials, equipment or systems and all positions conform to the requirement of the Contract Documents, including, without limitation, the Drawings.

(2) "Manufactured" applies to standard units usually mass-produced; "fabricated" means specifically assembled or made out of selected materials to meet design requirements. Shop Drawings shall establish the actual detail of manufactured or fabricated items, indicated proper relation to adjoining work and amplify design details of mechanical and electrical equipment in proper relation to physical spaces in the structure.

(3) Manufacturer's Instructions: Where any item of Work is required by the Contract Documents to be furnished, installed, or performed, at a minimum, in accordance with a specified product manufacturer's instructions, the Contractor shall procure and distribute copies of these to the District, the Architect, and all other concerned parties and shall furnish, install, or perform the work, at a minimum, in accordance with those instructions.

B. Samples, Shop Drawings, Product Data, and other items as specified, in accordance with the following requirements:

(1) Contractor shall submit all Shop Drawings, Product Data, and Samples to the District, ~~the Architect, the Project Inspector, and the Construction Manager.~~

- (2) Contractor shall comply with all time frames herein and in the General Conditions and, in any case, shall submit required information in sufficient time to permit proper consideration and action before ordering any materials or items represented by such Shop Drawings, Product Data, and/or Samples.
- (3) Contractor shall comply with all time frames herein and in the General Conditions and, in any case, shall allow sufficient time so that no delay occurs due to required lead time in ordering or delivery of any item to the Site. Contractor shall be responsible for any delay in progress of Work due to its failure to observe these requirements.
- (4) Time for completion of Work shall not be extended on account of Contractor's failure to promptly submit Shop Drawings, Product Data, and/or Samples.
- (5) Reference numbers on Shop Drawings shall have Architectural and/or Engineering Contract Drawings reference numbers for details, sections, and "cuts" shown on Shop Drawings. These reference numbers shall be in addition to any numbering system that Contractor chooses to use or has adopted as standard.
- (6) When the magnitude or complexity of submittal material prevents a complete review within the stated time frame, Contractor shall make this submittal in increments to avoid extended delays.
- (7) Contractor shall certify on submittals for review that submittals conform to Contract requirements. In event of any variance, Contractor shall specifically state in transmittal and on Shop Drawings, portions vary and require approval of a substitute. Also certify that Contractor-furnished equipment can be installed in allocated space.
- (8) Unless specified otherwise, sampling, preparation of samples, and tests shall be in accordance with the latest standard of the American Society for Testing and Materials.
- (9) Upon demand by Architect or District, Contractor shall submit samples of materials and/or articles for tests or examinations and consideration before Contractor incorporates same in Work. Contractor shall be solely responsible for delays due to sample(s) not being submitted in time to allow for tests. Acceptance or rejection will be expressed in writing. Work shall be equal to approved samples in every respect. Samples that are of value after testing will remain the property of Contractor.

C. Submittal Schedule:

- (1) Contractor shall prepare its proposed submittal schedule that is coordinated with its proposed construction schedule and submit both to the District within ten (10) days after the date of the Notice to Proceed. Contractor's proposed schedules shall become the Project Construction Schedule and the Project Submittal Schedule after each is approved by the District.

- (2) Contractor is responsible for all lost time should the initial submittal be rejected, marked "revised and resubmit", etc.
- (3) All Submittals shall be forwarded to the District by the date indicated on the approved Submittal Schedule, unless an earlier date is necessary to maintain the Construction Schedule, in which case those Submittals shall be forwarded to the District so as not to delay the Construction Schedule.

1.03 SHOP DRAWINGS:

- A. Contractor shall submit one ~~reproducible transparency and six (6) opaque reproductions~~ electronic copy (pdf). The District will review and return the ~~reproducible copy and one (1) opaque reproduction~~ marked-up pdf to Contractor.
- B. Before commencing installation of any Work, the Contractor shall submit and receive approval of all drawings, descriptive data, and material list(s) as required to accomplish Work.
- C. Review of Shop Drawings is regarded as a service to assist Contractor and in all cases original Contract Documents shall take precedence as outlined under General Conditions.
- D. No claim for extra time or payment shall be based on work shown on Shop Drawings unless the claim is (1) noted on Contractor's transmittal letter accompanying Shop Drawings and (2) Contractor has complied with all applicable provisions of the General Conditions, including, without limitation, provisions regarding changes and payment, and all required written approvals.
- E. District shall not review Shop Drawings for quantities of materials or number of items supplied.
- F. District's and/or Architect's review of Shop Drawing will be general. District and/or Architect review does not relieve Contractor of responsibility for accuracy, proper fitting, construction of Work, furnishing of materials, or Work required by Contract Documents and not indicated on Shop Drawings. Shop Drawing reviewed by District and/or Architect is not to be construed as approving departures from Contract Documents.
- G. Review of Shop Drawings and Schedules does not relieve Contractor from responsibility for any aspect of those Drawings or Schedules that is a violation of local, County, State, or Federal laws, rules, ordinances, or rules and regulations of commissions, boards, or other authorities or utilities having jurisdiction.
- H. Before submitting Shop Drawings for review, Contractor shall check Shop Drawings of its subcontractors for accuracy, and confirm that all Work contiguous with and having bearing on other work shown on Shop Drawings is accurately drawn and in conformance with Contract Documents.
- I. Submitted drawings and details must bear stamp of approval of Contractor:

- (1) Stamp and signature shall clearly certify that Contractor has checked Shop Drawings for compliance with Drawings.
 - (2) If Contractor submits a Shop Drawing without an executed stamp of approval, or whenever it is evident (despite stamp) that Drawings have not been checked the District and/or Architect will not consider them and will return them to the Contractor for revision and resubmission. In that event, it will be deemed that Contractor has not complied with this provision and Contractor shall bear risk of all delays to same extent as if it had not submitted any Shop Drawings or details.
- J. Submission of Shop Drawings (in either original submission or when resubmitted with correction) constitutes evidence that Contractor has checked all information thereon and that it accepts and is willing to perform Work as shown.
- K. Contractor shall pay for cost of any changes in construction due to improper checking and coordination. Contractor shall be responsible for all additional costs, including coordination. Contractor shall be responsible for costs incurred by itself, the District, the Architect, the Project Inspector, the Construction Manager, any other Subcontractor or contractor, etc., due to improperly checked and/or coordination of submittals.
- L. Shop Drawings must clearly delineate the following information:
- (1) Project name and address.
 - (2) Architect's name and project number.
 - (3) Shop Drawing title, number, date, and scale.
 - (4) Names of Contractor, Subcontractor(s) and fabricator.
 - (5) Working and erection dimensions.
 - (6) Arrangements and sectional views.
 - (7) Necessary details, including complete information for making connections with other Work.
 - (8) Kinds of materials and finishes.
 - (9) Descriptive names of materials and equipment, classified item numbers, and locations at which materials or equipment are to be installed in the Work. Contractor shall use same reference identification(s) as shown on Contract Drawings.
- M. Contractor shall prepare composite drawings and installation layouts when required to solve tight field conditions.
- (1) Shop Drawings shall consist of dimensioned plans and elevations and must give complete information, particularly as to size and location of

sleeves, inserts, attachments, openings, conduits, ducts, boxes, structural interferences, etc.

- (2) Contractor shall coordinate these composite Shop Drawings and installation layouts in the field between itself and its Subcontractor(s) for proper relationship to the Work, the work of other trades, and the field conditions. The Contractor shall check and approve all submittal(s) before submitting them for final review.

1.04 PRODUCT DATA OR NON REPRODUCIBLE SUBMITTALS:

- A. Contractor shall submit manufacturer's printed literature in original form. Any fading type of reproduction will not be accepted. Contractor must submit a minimum of six (6) each, to the District. District shall return one (1) to the Contractor, who shall reproduce whatever additional copies it requires for distribution.
- B. Contractor shall submit six (6) copies of a complete list of all major items of mechanical, plumbing, and electrical equipment and materials in accordance with the approved Submittal Schedule, except as required earlier to comply with the approved Construction Schedule. Other items specified are to be submitted prior to commencing Work. Contractor shall submit items of like kind at one time in a neat and orderly manner. Partial lists will not be acceptable.
- C. Submittals shall include manufacturer's specifications, physical dimensions, and ratings of all equipment. Contractor shall furnish performance curves for all pumps and fans. Where printed literature describes items in addition to that item being submitted, submitted item shall be clearly marked on sheet and superfluous information shall be crossed out. If highlighting is used, Contractor shall mark all copies.
- D. Equipment submittals shall be complete and include space requirements, weight, electrical and mechanical requirements, performance data, and supplemental information that may be requested.

1.05 SAMPLES:

- A. Contractor shall submit for approval Samples as required and within the time frame in the Contract Documents. Materials such as concrete, mortar, etc., which require on-site testing will be obtained from Project Site.
- B. Contractor shall submit four (4) samples except where greater or lesser number is specifically required by Contract Documents including, without limitation, the Specifications.
 - (1) Samples must be of sufficient size and quality to clearly illustrate functional characteristics, with integrally related parts and attachment devices.
 - (2) Samples must show full range of texture, color, and pattern.

- C. Contractor shall make all Submittals, unless it has authorized Subcontractor(s) to submit and Contractor has notified the District in writing to this effect.
- D. Samples to be shipped prepaid or hand-delivered to the District.
- E. Contractor shall mark samples to show name of Project, name of Contractor submitting, Contract number and segment of Work where representative Sample will be used, all applicable Specifications Sections and documents, Contract Drawing Number and detail, and ASTM or FS reference, if applicable.
- F. Contractor shall not deliver any material to Site prior to receipt of District's and/or Architect's completed written review and approval. Contractor shall furnish materials equal in every respect to approved Samples and execute Work in conformance therewith.
- G. District's and/or Architect's review, acceptance, and/or approval of Sample(s) will not preclude rejections of any material upon discovery of defects in same prior to final acceptance of completed Work.
- H. After a material has been approved, no change in brand or make will be permitted.
- I. Contractor shall prepare its Submittal Schedule and submit Samples of materials requiring laboratory tests to specified laboratory for testing not less than ninety (90) days before such materials are required to be used in Work.
- J. Samples which are rejected must be resubmitted promptly after notification of rejection and be marked "Resubmitted Sample" in addition to other information required.
- K. Field Samples and Mock-Ups are to be removed by Contractor at District's direction:
 - (1) Size: As Specified.
 - (2) Furnish catalog numbers and similar data, as requested.

1.06 REVIEW AND RESUBMISSION REQUIREMENTS:

- A. The District will arrange for review of Sample(s), Shop Drawing(s), Product Data, and other submittal(s) by appropriate reviewer and return to Contractor as provided below within twenty-one (21) days after receipt or within twenty-one (21) days after receipt of all related information necessary for such review, whichever is later.
- B. One (1) copy of product or materials data will be returned to Contractor with the review status.
- C. Samples to be incorporated into the Work will be returned to Contractor, together with a written notice designating the Sample with the appropriate review status and indicating errors discovered on review, if any. Other Samples will not be returned, but the same notice will be given with respect thereto, and that notice shall be considered a return of the Sample.

- D. Contractor shall revise and resubmit any Sample(s), Shop Drawing(s), Product Data, and other submittal(s) as required by the reviewer. Such resubmittals will be reviewed and returned in the same manner as original Sample(s), Shop Drawing(s), Product Data, and other submittal(s), within fourteen (14) days after receipt thereof or within fourteen (14) days after receipt of all related information necessary for such review.
- E. Contractor may proceed with any of the Work covered by Sample(s), Shop Drawing(s), Product Data, and other submittal(s) upon its return if designated as no exception taken, or revise as noted, provided the Contractor proceeds in accordance with the District and/or the Architect's notes and comments.
- F. Contractor shall not begin any of the work covered by a Sample(s), Shop Drawing(s), Product Data, and other submittal(s), designated as revise and resubmit or rejected, until a revision or correction thereof has been reviewed and returned to Contractor.
- G. Sample(s), Shop Drawing(s), Product Data, and other submittal(s) designated as revise and resubmit or rejected and requiring resubmittal, shall be revised or corrected and resubmitted to the District no later than fourteen (14) days or a shorter period as required to comply with the approved Construction Schedule, after its return to Contractor.
- H. Neither the review nor the lack of review of any Sample(s), Shop Drawing(s), Product Data, and other submittal(s) shall waive any of the requirements of the Contract Documents, or relieve Contractor of any obligation thereunder.
- I. District's and/or Architect's review of Shop Drawings does not relieve the Contractor of responsibility for any errors that may exist. Contractor is responsible for the dimensions and design of adequate connections and details and for satisfactory construction of all the Work.

PART 2 – PRODUCTS Not Used.

PART 3 - EXECUTION Not Used.

END OF DOCUMENT

2.5 CUTTING AND PATCHING

PART 1 – GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including, without limitation, Inspector, Inspections, and Tests, Integration of Work, Nonconforming Work, and Correction of Work, and Uncovering Work;
- B. Special Conditions;
- C. Hazardous Materials Procedures and Requirements;
- D. Hazardous Materials Certification;
- E. Lead-Based Paint Certification;
- F. Imported Materials Certification.

1.02 CUTTING AND PATCHING:

- A. Contractor shall be responsible for all cutting, fitting, and patching, including associated excavation and backfill, required to complete the Work or to:
 - (1) Make several parts fit together properly.
 - (2) Uncover portions of Work to provide for installation of ill-timed Work.
 - (3) Remove and replace defective Work.
 - (4) Remove and replace Work not conforming to requirements of Contract Documents.
 - (5) Remove Samples of installed Work as specified for testing.
 - (6) Provide routine penetrations of non-structural surfaces for installation of piping and electrical conduit.
 - (7) Attaching new materials to existing remodeling areas – including painting (or other finishes) to match existing conditions.
- B. In addition to Contract requirements, upon written instructions from the District, Contractor 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.

- C. Contractor 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.

1.03 SUBMITTALS:

- A. Prior to any cutting or alterations that may affect the structural safety of Project, or work of others, and well in advance of executing such cutting or alterations, Contractor 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, including the following:

- (1) The work of the District or other trades.
- (2) Structural value or integrity of any element of Project.
- (3) Integrity or effectiveness of weather-exposed or weather-resistant elements or systems.
- (4) Efficiency, operational life, maintenance or safety of operational elements.
- (5) Visual qualities of sight-exposed elements.

- B. Contractor's Request shall also include:

- (1) Identification of Project.
- (2) Description of affected Work.
- (3) Necessity for cutting, alteration, or excavations.
- (4) Affects of Work on District, other trades, or structural or weatherproof integrity of Project.
- (5) Description of proposed Work:
 - (a) Scope of cutting, patching, alteration, or excavation.
 - (b) Trades that will execute Work.
 - (c) Products proposed to be used.
 - (d) Extent of refinishing to be done.
- (6) Alternates to cutting and patching.
- (7) Cost proposal, when applicable.
- (8) The scheduled date the Contractor intends to perform the Work and the duration of time to complete the Work.
- (9) Written permission of other trades whose Work will be affected.

1.04 QUALITY ASSURANCE:

- A. Contractor 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.
- B. Contractor 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.

1.05 PAYMENT FOR COSTS:

- A. 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 Contractor and/or deducted from the Contract by the District.
- B. 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 Conditions. 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. Contractor shall provide written cost proposals prior to proceeding with cutting and patching.

PART 2 - PRODUCTS

2.01 MATERIALS:

- A. Contractor shall provide for replacement and restoration of Work removed. Contractor 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, Contractor shall first recommend a product of a manufacturer or appropriate trade association for approval by the District.
- B. Materials to be cut and patched include those damaged by the performance of the Work.

PART 3 – EXECUTION

3.01 INSPECTION:

- A. Contractor 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, Contractor shall inspect conditions affecting installation of new products.

2.5 – CUTTING AND PATCHING

- B. Contractor shall report unsatisfactory or questionable conditions in writing to District as indicated in the General Conditions and shall proceed with Work as indicated in the General Conditions by District.

3.02 PREPARATION:

- A. Contractor shall provide shoring, bracing and supports as required to maintain structural integrity for all portions of the Project, including all requirements of the Project.
- B. Contractor shall provide devices and methods to protect other portions of Project from damage.
- C. Contractor 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. Contractor shall keep excavations free from water.

3.03 ERECTION, INSTALLATION AND APPLICATION:

- A. With respect to performance, Contractor shall:
 - (1) Execute fitting and adjustment of products to provide finished installation to comply with and match specified tolerances and finishes.
 - (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) Execute cutting, demolition excavating, and backfilling by methods that will prevent damage to other Work and damage from settlement.
- B. Contractor shall employ original installer or fabricator to perform cutting and patching for:
 - (1) Weather-exposed surfaces and moisture-resistant elements such as roofing, sheet metal, sealants, waterproofing, and other trades.
 - (2) Sight-exposed finished surfaces.
- C. Contractor 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.
- D. Contractor shall fit Work airtight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces. Contractor shall conform to all Code requirements for penetrations or the Drawings and Specifications, whichever calls for a higher quality or more thorough requirement. Contractor shall maintain integrity of both rated and non-rated fire walls, ceilings, floors, etc.
- E. Contractor shall restore Work which has been cut or removed. Contractor 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.

- F. Contractor shall refinish all continuous surfaces to nearest intersection as necessary to match the existing finish to any new finish.

END OF DOCUMENT

2.6 CONTRACT CLOSEOUT AND FINAL CLEANING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including, without limitation, Completion of Work;
- B. Special Conditions;
- C. Temporary Facilities and Controls.

1.02 CLOSEOUT PROCEDURES

Contractor shall comply with all closeout provisions as indicated in the General Conditions.

1.03 FINAL CLEANING

- A. Contractor shall execute final cleaning prior to final inspection.
- B. Contractor 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.
- C. Contractor shall clean equipment and fixtures to a sanitary condition.
- D. Contractor shall replace filters of operating equipment.
- E. Contractor shall clean debris from roofs, gutters, down spouts, and drainage systems.
- F. Contractor shall clean Site, sweep paved areas, and rake clean landscaped surfaces.
- G. Contractor shall remove waste and surplus materials, rubbish, and construction facilities from the Site.

1.04 ADJUSTING

Contractor shall adjust operating products and equipment to ensure smooth and unhindered operation.

1.05 RECORD DOCUMENTS AND SHOP DRAWINGS

- A. Contractor shall legibly mark each item to record actual construction, including:
 - (1) Measured depths of foundation in relation to finish floor datum.

- (2) Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permit surface improvements.
 - (3) Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
 - (4) Field changes of dimension and detail.
 - (5) Details not on original Contract Drawings
 - (6) Changes made by modification(s).
 - (7) References to related Shop Drawings and modifications.
- B. Contractor will provide one set of Record Drawings to District.
 - C. Contractor shall submit all required documents to District and/or Architect prior to or with its final Application for Payment.

1.06 INSTRUCTION OF DISTRICT PERSONNEL

- A. Before final inspection, at agreed upon times, Contractor shall instruct District's designated personnel in operation, adjustment, and maintenance of products, equipment, and systems.
- B. For equipment requiring seasonal operation, Contractor shall perform instructions for other seasons within six months.
- C. Contractor shall use operation and maintenance manuals as basis for instruction. Contractor shall review contents of manual with personnel in detail to explain all aspects of operation and maintenance.
- D. Contractor shall prepare and insert additional data in Operation and Maintenance Manual when need for such data becomes apparent during instruction.
- E. Contractor shall use operation and maintenance manuals as basis for instruction. Contractor shall review contents of manual with personnel in detail to explain all aspects of operation and maintenance.

1.07 SPARE PARTS AND MAINTENANCE MATERIALS

- A. Contractor shall provide products, spare parts, maintenance, and extra materials in quantities specified in the Specifications and in Manufacturer's recommendations.
- B. Contractor shall provide District all required Operation and Maintenance Data.

PART 2 – PRODUCTS Not used.

PART 3 – EXECUTION Not used.

END OF DOCUMENT

2.6 – CONTRACT CLOSEOUT AND FINAL CLEANING

2.7 OPERATION AND MAINTENANCE DATA

PART 1 – GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including, without limitation, Completion of the Work;
- B. Special Conditions.

1.02 QUALITY ASSURANCE:

Contractor shall prepare instructions and data by personnel experienced in maintenance and operation of described products.

1.03 FORMAT:

- A. Contractor shall prepare data in the form of an instructional manual entitled "OPERATIONS AND MAINTENANCE MANUAL & INSTRUCTIONS" ("Manual").
- B. Binders: Contractor 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, Contractor shall correlate data into related consistent groupings.
- C. Cover: Contractor 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.
- D. Contractor shall arrange content by systems process flow under section numbers and sequence of Table of Contents of the Contract Documents.
- E. Contractor shall provide tabbed fly leaf for each separate product and system, with typed description of product and major component parts of equipment.
- F. Text: The content shall include Manufacturer's printed data, or typewritten data on 24 pound paper.
- G. Drawings: Contractor shall provide with reinforced punched binder tab and shall bind in with text; folding larger drawings to size of text pages.

1.04 CONTENTS, EACH VOLUME:

- A. Table of Contents: Contractor shall provide title of Project; names, addresses, and telephone numbers of the Architect, any engineers, subconsultants, Subcontractor(s), and Contractor with name of responsible parties; and schedule of products and systems, indexed to content of the volume.

- B. For Each Product or System: Contractor shall list names, addresses, and telephone numbers of Subcontractor(s) and suppliers, including local source of supplies and replacement parts.
- C. Product Data: Contractor shall mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.
- D. Drawings: Contractor shall supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Contractor shall not use Project Record Documents as maintenance drawings.
- E. Text: The Contractor shall include any and all information as required to supplement product data. Contractor shall provide logical sequence of instructions for each procedure, incorporating manufacturer's instructions.
- F. Warranties and Bonds: Contractor shall bind in one copy of each.

1.05 MANUAL FOR MATERIALS AND FINISHES:

- A. Building Products, Applied Materials, and Finishes: Contractor shall include product data, with catalog number, size, composition, and color and texture designations. Contractor shall provide information for re-ordering custom manufactured products.
- B. Instructions for Care and Maintenance: Contractor shall include Manufacturer's recommendations for cleaning agents and methods, precautions against detrimental agents and methods, and recommended schedule for cleaning and maintenance.
- C. Moisture Protection and Weather Exposed Products: Contractor shall include product data listing applicable reference standards, chemical composition, and details of installation. Contractor shall provide recommendations for inspections, maintenance, and repair.
- D. Additional Requirements: Contractor shall include all additional requirements as specified in the Specifications.
- E. Contractor shall provide a listing in Table of Contents for design data, with tabbed fly sheet and space for insertion of data.

~~1.06 MANUAL FOR EQUIPMENT AND SYSTEMS:~~

- ~~A. Each Item of Equipment and Each System: Contractor shall include description of unit or system, and component parts and identify function, normal operating characteristics, and limiting conditions. Contractor shall include performance curves, with engineering data and tests, and complete nomenclature, and commercial number of replaceable parts.~~
- ~~B. Panelboard Circuit Directories: Contractor shall provide electrical service characteristics, controls, and communications.~~

2.7 – OPERATION AND MAINTENANCE DATA

- ~~C. Contractor shall include color coded wiring diagrams as installed.~~
- ~~D. Operating Procedures: Contractor shall include start-up, break-in, and routine normal operating instructions and sequences. Contractor shall include regulation, control, stopping, shut-down, and emergency instructions. Contractor shall include summer, winter, and any special operating instructions.~~
- ~~E. Maintenance Requirements: Contractor shall include routine procedures and guide for trouble-shooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.~~
- ~~F. Contractor shall provide servicing and lubrication schedule, and list of lubricants required.~~
- ~~G. Contractor shall include manufacturer's printed operation and maintenance instructions.~~
- ~~H. Contractor shall include sequence of operation by controls manufacturer.~~
- ~~I. Contractor shall provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.~~
- ~~J. Contractor shall provide control diagrams by controls manufacturer as installed.~~
- ~~K. Contractor shall provide Contractor's coordination drawings, with color coded piping diagrams as installed.~~
- ~~L. Contractor shall provide charts of valve tag numbers, with location and function of each valve, keyed to flow and control diagrams.~~
- ~~M. Contractor shall provide list of original manufacturer's spare parts, current prices, and recommended quantities to be maintained in storage.~~
- ~~N. Additional Requirements: Contractor shall include all additional requirements as specified in Specification(s).~~
- ~~O. Contractor shall provide a listing in Table of Contents for design data, with tabbed fly sheet and space for insertion of data.~~

1.08 SUBMITTAL:

- A. Contractor shall submit to the District for review two (2) copies of preliminary draft or proposed formats and outlines of the contents of the Manual within thirty (30) days of Contractor's start of Work.
- B. For equipment, or component parts of equipment put into service during construction and to be operated by District, Contractor shall submit draft content for that portion of the Manual within ten (10) days after acceptance of that equipment or component.
- C. Contractor shall submit two (2) copies of a complete Manual in final form prior to final Application for Payment. Copy will be returned with Architect/Engineer

comments. Contractor must revise the content of the Manual as required by District prior to District's approval of Contractor's final Application for Payment.

- D. Contractor must submit two (2) copies of revised Manual in final form within ten (10) days after final inspection.

PART 2 – PRODUCTS Not Used.

PART 3 – EXECUTION Not Used.

END OF DOCUMENT

2.8 WARRANTIES

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including, without limitation, Warranty/Guarantee Information;
- B. ~~Special Conditions.~~

1.02 FORMAT

- A. ~~Binders: Contractor shall use commercial quality, 8-1/2 by 11 inch, three-side rings, with durable plastic covers, two inch maximum ring size.~~
- B. ~~Cover: Contractor shall identify each binder with typed or printed title "WARRANTIES" and shall list title of Project.~~
- C. ~~Table of Contents: Contractor shall provide title of Project; name, address, and telephone number of Contractor and equipment supplier, and name of responsible principal. Contractor 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.~~
- D. ~~Contractor 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. Contractor 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).~~

1.03 PREPARATION:

- A. Contractor 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, Contractor shall leave date of beginning of time of warranty until the date of completion is determined.
- B. Contractor shall verify that documents are in proper form, contain full information, and are notarized, when required.
- C. Contractor shall co-execute submittals when required.
- D. Contractor shall retain warranties until time specified for submittal.

1.04 TIME OF SUBMITTALS:

- A. For equipment or component parts of equipment put into service during construction with District's permission, Contractor shall submit a draft warranty

for that equipment or component within ten (10) days after acceptance of that equipment or component.

- B. Contractor shall submit for District approval all warranties and related documents within ten (10) days after date of completion. Contractor must revise the warranties as required by the District prior to District's approval of Contractor's final Application for Payment.
- C. For items of work delayed beyond date of completion, provide updated submittal within ten days after acceptance, listing the date of acceptance as start of warranty period.

PART 2 - PRODUCTS Not Used.

PART 3 – EXECUTION Not Used.

END OF DOCUMENT

2.9 RECORD DOCUMENTS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS AND PROVISIONS:

All Contract Documents should be reviewed for applicable provisions related to the provisions in this document, including without limitation:

- A. General Conditions, including, without limitation, Documents on Work;
- B. Special Conditions.

PART 2 - RECORD DRAWINGS

2.01 GENERAL:

- A. Contractor shall maintain at each Project Site one 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. ~~Contractor shall submit to the Project Inspector one set of reproducible vellums of the Project Record Drawings ("As-Builts") showing all changes incorporated into the Work since the preceding monthly submittal. The As-Builts shall be available at the Project Site.~~ The Contractor shall submit As-Built pdf files at the conclusion of the Project via email, flash drive or CD as appropriate.
- B. Label and date each Record Drawing "RECORD DOCUMENT" in legibly printed letters.
- C. All deviations in construction, including but not limited to pipe and conduit locations and deviations caused by without limitation Change Orders, Construction Claim Directives, RFI's, and Addenda, shall be accurately and legibly recorded by Contractor.
- D. Locations and changes shall be done by Contractor in a neat and legible manner and, where applicable, indicated by drawing a "cloud" around the changed or additional information.

2.02 RECORD DRAWING INFORMATION:

- A. Contractor shall record the following information (as applicable):
 - ~~(1) Locations of Work buried under or outside each building, including, without limitation, all utilities, plumbing and electrical lines, and conduits.~~
 - ~~(2) Actual numbering of each electrical circuit.~~
 - (3) Locations of significant Work concealed inside each building whose general locations are changed from those shown on the Contract Drawings.

- (4) Locations of all items, not necessarily concealed, which vary from the Contract Documents.
- ~~(5) Installed location of all cathodic protection anodes.~~
- (6) Deviations from the sizes, locations, and other features of installations shown in the Contract Documents.
- ~~(7) Locations of underground work, points of connection with existing utilities, changes in direction, valves, manholes, catch basins, capped stubouts, invert elevations, etc.~~
- ~~(8) Sufficient information to locate Work concealed in each building with reasonable ease and accuracy.~~

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.

- B. Contractor shall provide additional drawings as necessary for clarification.
- C. Contractor shall provide reproducible record drawings, made from final Shop Drawings marked "No Exceptions Taken" or "Approved as Noted."

PART 3 - RECORD SPECIFICATIONS

3.01 GENERAL:

Contractor shall mark each section legibly to record manufacturer, trade name, catalog number, and supplier of each Product and item of equipment actually installed.

~~**PART 4 - MAINTENANCE OF RECORD DOCUMENTS**~~

~~**4.01 GENERAL**~~

- ~~A. Contractor shall store Record Documents apart from documents used for construction as follows:
 - ~~(1) Provide files and racks for storage of Record Documents.~~
 - ~~(2) Maintain Record Documents in a clean, dry, legible condition and in good order.~~~~
- ~~B. Do not use Record Documents for construction purposes.~~
- ~~C. Within 30 days, submit "as built" submittals in pdf/CD format including shop drawings, product data, operations and instructions manuals for all products provided, CD's of all systems programming, care and maintenance instructions, service line and online contacts and warranty documents.~~

~~**PART 5 - PRODUCTS**~~ Not Used.

END OF DOCUMENT

2.10 GENERAL NOTES

1. All work shall conform to the Requirements of Title 24 of the California Administrative Code, the Uniform Building Code, Cal-OSHA and State requirements, and the governing Building Authority, as applicable. All Codes, Standards and Specifications shall be as amended to date, any violation will result in STOPPING of all work until the violation is corrected.
2. The Drawings and Specifications describe in General the quality and character of the materials, shape and configuration of improvements and the design intent of the completed work. Miscellaneous items of work, material, equipment, etc., necessary to complete the work shall be provided by the contractor whether or not mentioned in the specifications or shown on the drawings. Specific notes and details shall take precedence over general notes and typical details. Demolition of existing conflicting improvements shall be considered included in the price paid for the various items of work and no separate or additional payment will be made therefor.
3. Protect existing facilities from damage. Any damage caused by the contractor shall be repaired or replaced at no additional cost to the District.
4. Contractor agrees that in accordance with generally accepted paving practices, contractor shall assume sole and complete responsibility for job site conditions during the course of performance/execution of the project, including safety of all persons and property; that this requirements shall be made to apply continuously and not be limited to normal working hours.

Barricades, sign lights, etc., required for the protection of public personnel, property and material shall be provided by the Contractor for and maintained during performance/execution by the Contractor, and shall conform to all governing codes, ordinances and regulations. Provide barricades to protect the general public and prevent uncontrolled access to the site at all times.
5. The contractor shall employ all means necessary to control dust at and near the site of work and along approach routes to the work site.
6. Contractor and any subs shall not park vehicles on residential streets. Parking permits may be issued for designated lots on the College of Marin campus.
7. Traffic Control: Prior to beginning any work on existing streets, parking lots, or driveways, advance-warning signs shall be installed. Traffic Control shall be provided in accordance with CalTrans "Manual of Traffic Controls for performance/execution sites and maintenance work Zones" current edition and any additional county requirements. Failure to comply may result in immediate stoppage of work until the proper traffic control is in order.
8. Provide for Egress and ingress to on-site facilities that are to remain operational during all phases of the work.

9. Obtain encroachment permits required for working within existing public right-of-ways. Notify District's representative fourteen (14) days prior to start of work within existing public Right-Of-Ways.
10. Provide all tools, transportation, utilities, temporary facilities, storage, debris removal, supplies and other services as necessary for proper execution of the work, and shall assume full responsibility for protection and safekeeping of the elements during performance/execution. The Contractor shall contract the District's representative for designation of the material storage area at the job site.
11. Maintain "Good Housekeeping" practices at the job site. Remove debris promptly from the job site and dispose of at the Contractor's approved dumpsite and removal from the District's site. Leave the job site "Broom Clean" at the end of each workday. Before acceptance by the District's representative, the completed performance/execution shall be cleared, and all other touchup work completed.
12. Field investigate, verify and be responsible for all conditions, elevations and dimensions of the project, as shown on or referenced in the drawings and specifications, and notify the District's representative about any condition requiring modification or change prior to bidding. Examine the drawings and specifications and clear understanding the existing conditions under which the work is to be performed prior to bidding. Entering into an agreement with the District indicates that the Contractor has visited the Site, familiarized themselves with existing conditions and reviewed same with requirements of contract document. No allowances of any kind will be made for any extra cost due to the Contractor's failure to inform the District's representative of discrepancies in time to issue corrective addenda prior to bidding. The contract documents illustrate the intent of the work to be performed.
13. The existence and locations of any underground utility pipelines or structures shown on these plans were obtained by a search of available records. Use caution in all excavation operations, if applicable.
14. Where elevations of existing utilities are unknown, pothole and verify prior to starting performance/execution. Contact District's representative if there are conflicts with the design.
15. Underground utilities if indicated are for information only. It is the contractor's responsibility to verify the location and depth of all utilities including telephone, water, gas, TV, traffic signal street lighting, etc., with the appropriate agency. Neither the District nor their consultant assumes responsibility that the underground utilities indicated would be those encountered. Contractor shall notify underground service alert (U.S.A. 800-642-2444) 48 hours minimum prior to any excavation.
16. Contractor is responsible for coordinating the work to avoid conflicts between sewer laterals, storm drains and water mains, if applicable.
17. It shall be the contractor's responsibility to notify the District's representative of any differences in locations of existing utilities from that shown, or any conflicts with the design before continuing work in that area.

18. Utility connections and disconnections necessary to complete the work shall be performed in such manner in order to minimize utility service interruptions to facility operations in the vicinity of performance/execution site. Coordinate all "Down Time" with the District and with the appropriate agency.
19. Provide adequate cover for the protection of all existing utilities during the performance/execution of this project.
20. Any permanent monuments or points damaged or destroyed shall be replaced by a licensed engineer or land surveyor at the Contractor's expense.
21. Contractor shall be responsible for matching existing streets, surrounding landscape, and other improvements with a smooth transition in grading to avoid any abrupt or apparent changes in grades or cross slop, low spots, or hazardous conditions.
22. Wastewater generated during the work shall not be discharged to the storm drain system. The Contractor shall make arrangements to eliminate discharge to the storm drain system and, if necessary, provide an area for onsite washing activities during performance/execution, materials that could contaminate storm runoff shall be stored in areas which are designed to prevent exposure to rainfall and not allow storm water to run onto the area.
23. Flushing of streets and parking lots to remove dirt and debris is prohibited unless proper sediment controls are used. Preferably, areas requiring cleaning should be swept.
24. Any revision or additional work required as a result of field conditions or local governing authorities shall be brought to the attention of the District's representative before the work is responsibility of the contractor who shall bear all costs attributable thereto. Any and all revisions shall be in written change order form and approved and authorized by the district before beginning work.
25. Contractor shall coordinate their work with the work under contracts that may be underway concurrently with this project.

SITE PERIMETER ROAD RETAINING WALLS REPAIR / REPLACEMENT PHASE 2

COLLEGE OF MARIN
INDIAN VALLEY CAMPUS
NOVATO, CALIFORNIA 94949

PROJECT NO. 16-0804 (413A-2)

PERMIT SET

SHEET INDEX

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S-006	RETAINING WALL ELEVATIONS
S-201	REPAIR DETAILS
S-000	COVER SHEET
S-001	SITE PLAN
S-002	RETAINING WALL ELEVATIONS
S-003	RETAINING WALL ELEVATIONS
S-004	RETAINING WALL ELEVATIONS
S-200	REPAIR DETAILS

COLLEGE OF
MARIN
835 College Avenue
Kentfield, CA 94904



DEGENKOLB ENGINEERS
1300 Clay Street, Suite 900
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Project No. AS493006.00



PROJECT SCOPE

THIS PROJECT INVOLVES THE VOLUNTARY REPAIR OF RETAINING WALLS ALONG THE CAMPUS PERIMETER ROAD OF THE INDIAN VALLEY CAMPUS. THE CAMPUS CURRENTLY HAS NINE WALLS THAT ARE CONSIDERED FAILING, AND ARE HIGHLIGHTED IN THE GEOTECHNICAL DESIGN REPORT BY A3GEO ("REPAIRS TO EXISTING RETAINING WALLS COLLEGE OF MARIN, INDIAN VALLEY CAMPUS NOVATO, CALIFORNIA" JUNE 10, 2015).

FOR AMOUNT OF DAMAGED WALL TO BE REMOVED:
REFER TO DETAIL 7 ON SHEET S-200
REMOVE ALL EXISTING LAGGING AND WOOD POLES TO GRADE, AND
REFER TO DETAIL 8 ON SHEET S-200
REMOVE ALL EXISTING LAGGING AND WOOD POLES TO NEW BACKFILL GRADE.

LENGTHS OF DAMAGED WALLS TO BE REPLACED:

WALL #1: 83 LF WALL #6: 174 LF WALL #12: 40 LF
WALL #2: 114 LF WALL #7A: 70 LF WALL #13: 147 LF
WALL #4A: 25 LF WALL #9: 45 LF WALL #14: 70 LF
WALL #5A: 23 LF WALL #11: 20 LF WALL #15: 50 LF

THESE DRAWINGS PROVIDE RETROFIT SCHEMES FOR THE WALLS THAT HAVE ALREADY FAILED. THE DETAILS CAN ALSO BE USED TO REPLACE ANY FUTURE WALL SECTIONS THAT FAIL. THESE DRAWINGS ALSO INCLUDE A DETAIL FOR THE RELOCATION OR REPLACEMENT OF ANY STREET LIGHT FOUNDATIONS THAT MAY BE IMPACTED BY THE RETAINING WALL WORK.

PROJECT DIRECTORY

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COLLEGE OF MARIN, INDIAN VALLEY CAMPUS
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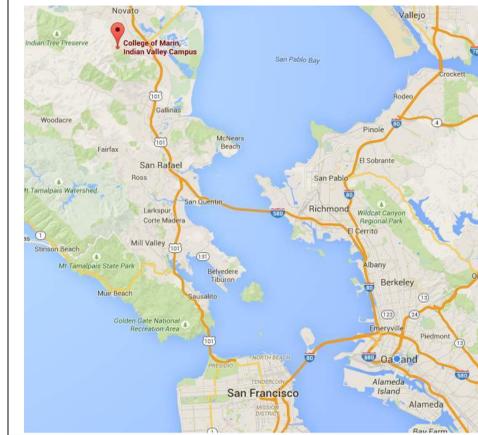
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DEFERRED APPROVALS

APPLICABLE CODES

2013 CALIFORNIA BUILDING CODE.

VICINITY MAP



CAMPUS MAP



ABBREVIATIONS

(E)	EXISTING	ID	INSIDE DIAMETER/DIMENSION
(N)	NEW	INFO	INFORMATION
#	NUMBER		
&	AND	JST, JSTS	JOIST, JOISTS
@	AT	JT	JOINT
ø	DIAMETER		
fd	DEVELOPMENT LENGTH	L	ANGLE
fdh	HOOK DEVELOPMENT LENGTH	LP	LOW POINT
fs	LAP SPLICE LENGTH	LEV	LEVEL
		LLH	LONG LEG HORIZONTAL
AA	ADHESIVE ANCHOR	LLV	LONG LEG VERTICAL
ABV	ABOVE	LOC	LOCATION
ADDL	ADDITIONAL	LONGIT	LONGITUDINAL
ADJ	ADJACENT	LT	LIGHT
AGGR	AGGREGATE	LWC	LIGHTWEIGHT CONCRETE
ALT	ALTERNATE		
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE		
APPROX	APPROXIMATE	MAX	MAXIMUM
AR	ANCHOR ROD	MB	MACHINE BOLT
ARCH	ARCHITECTURAL / ARCHITECT	MEP	MECHANICAL, ELECTRICAL, PLUMBING DOCUMENTS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MFR	MANUFACTURER
		MIN	MINIMUM
		MISC	MISCELLANEOUS
BF	BOTH FACES	NF	NEAR FACE
BLDG	BUILDING	NIC	NOT IN CONTRACT
BM, BMS	BEAM, BEAMS	NOM	NOMINAL (DIAMETER)
BO	BOTTOM OF	NS	NEAR SIDE
BOF	BOTTOM OF FOOTING	NTS	NOT TO SCALE
BOT	BOTTOM	NWC	NORMAL WEIGHT CONCRETE
BRG	BEARING		
BSMT	BASEMENT	OC	ON CENTER
BS	BOTH SIDES	OD	OUTSIDE DIAMETER/DIMENSION
BTWN	BETWEEN	OPH	OPPOSITE HAND
BW	BOTH WAYS	OPNG	OPENING
		OPP	OPPOSITE
CIP	CAST IN PLACE	PC, PCS	PIECE, PIECES
CJ	CONSTRUCTION JOINT	PERP	PERPENDICULAR
CLG	CEILING	PL	PLATE
CL	CENTERLINE	PLYWD	PLYWOOD
CLR	CLEAR		
COL	COLUMN	RO	ROUGH OPENING
CONC	CONCRETE	R	RADIUS
CONN	CONNECTION	REBAR	REINFORCING BAR
CONSTR	CONSTRUCTION	REF	REFERENCE
CONT	CONTINUOUS	REINF	REINFORCED or REINFORCING
CTR	CENTER	REQ'D	REQUIRED
		REV	REVISION
DBL	DOUBLE		
DEMO	DEMOLITION	SAD	SEE ARCHITECTURAL DOCUMENTS/DRAWINGS
DET, DETS	DETAIL, DETAILS	SCHED	SCHEDULE
DIAG	DIAGONAL	SECT	SECTION
DIM, DIMS	DIMENSION, DIMENSIONS	SHT	SHEET
DIST	DISTANCE	SHTG	SHEATHING
DN	DOWN	SIM	SIMILAR
DO	DITTO	SL	SLOPE
DP	DEEP	SOG	SLAB ON GRADE
DWL, DWLS	DOWEL, DOWELS	SPEC, SPECS	SPECIFICATION, SPECIFICATIONS
DWG, DWGS	DRAWING, DRAWINGS	SQ	SQUARE
		SS	STAINLESS STEEL
EA	EACH	STAG	STAGGER or STAGGERED
EF	EACH FACE	STD	STANDARD
EJ	EXPANSION JOINT	STIR	STIRRUP or STIRRUPS
EL	ELEVATION	STL	STEEL
ELEV	ELEVATOR	STRUCT	STRUCTURAL
EMBED	EMBEDMENT	SUB	SUBSTITUTE
EOS	EDGE OF SLAB	SYMM	SYMMETRICAL
EQ	EQUAL		
EQUIP	EQUIPMENT	T&B	TOP and BOTTOM
ES	EACH SIDE	THK	THICK
EW	EACH WAY	THRD	THREADED
EXCAV	EXCAVATION	THRU	THROUGH
EXP	EXPANSION	TO	TOP OF
EXT	EXTERIOR	TOC	TOP OF CONCRETE
		TYP	TYPICAL
FF	FAR FACE	UON	UNLESS OTHERWISE NOTED
FDN	FOUNDATION	URM	UNREINFORCED MASONRY
FIN	FINISH		
FLR, FLRS	FLOOR, FLOORS	VERT. (V)	VERTICAL
F0	FACE OF	VIF	VERIFY IN FIELD
FOC	FACE OF CONCRETE		
FS	FAR SIDE	W/	WITH
FT	FOOT OR FEET	W/O	WITHOUT
FTG, FTGS	FOOTING, FOOTINGS	WP	WORK POINT
		WWM	WELDED WIRE MESH
GA	GAGE		
GALV	GALVANIZED		
GRND	GROUND		
GR	GRADE		
HDG	HOT DIPPED GALVANIZED		
HP	HIGH POINT		
HSB	HIGH STRENGTH BOLTS		
HSS	HOLLOW STRUCTURAL SECTION		
HT	HEIGHT		
HK, HKS	HOOKS		
HORIZ. (H)	HORIZONTAL		

SITE PERIMETER ROAD
RETAINING WALLS
REPAIR / REPLACEMENT

IVC CAMPUS

District Project # 3028

AE Project # AS493006.00 date: 08/17/2016

drawn by: checked by: EJM

COVER SHEET

S-000

GENERAL NOTES

I. GENERAL

- MATERIALS AND WORKMANSHIP TO CONFORM WITH THE 2013 EDITION OF THE CALIFORNIA BUILDING CODE, WITH CITY OF NOVATO AMENDMENTS AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- REFERENCE TO CODES, RULES, REGULATIONS, STANDARDS, MANUFACTURER'S INSTRUCTIONS OR REQUIREMENTS OF REGULATORY AGENCIES IS TO THE LATEST PRINTED EDITION OF EACH IN EFFECT AT THE DATE OF SUBMISSION OF BID UNLESS THE DOCUMENT DATE IS SHOWN.
- DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, USE SIMILAR DETAILS OF CONSTRUCTION. SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE.
- DO NOT SCALE THE DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR SHORING, EXCAVATION SAFETY AND THE PROTECTION OF ADJACENT IMPROVEMENTS THROUGHOUT ALL PHASES OF CONSTRUCTION. ALL TEMPORARY SLOPES SHOULD BE EXCAVATED IN ACCORDANCE WITH THE LATEST EDITION OF THE CAL-OSHA EXCAVATION AND TRENCH SAFETY STANDARDS AS A MINIMUM. THE DESIGN, INSTALLATION AND MAINTENANCE OF TEMPORARY SHORING AND STABILITY OF TEMPORARY EXCAVATION SLOPES AREA CONSIDERED THE RESPONSIBILITY OF THE CONTRACTOR.
- INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING A SAFE PLACE TO WORK AND MEETING THE REQUIREMENTS OF ALL APPLICABLE JURISDICTIONS. EXECUTE WORK TO ENSURE THE SAFETY OF PERSONS AND ADJACENT PROPERTY AGAINST DAMAGE BY FALLING DEBRIS AND OTHER HAZARDS IN CONNECTION WITH THIS WORK.

II. FOUNDATION AND SITE WORK

- THE DESIGN OF THE FOUNDATION SYSTEM IS BASED UPON THE CRITERIA AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL INVESTIGATION REPORT ENTITLED "REPAIRS TO EXISTING RETAINING WALLS COLLEGE OF MARIN, INDIAN VALLEY CAMPUS" BY A3GEO, DATED JUNE 10, 2015.
- THE GEOTECHNICAL REPORT IS PART OF THE CONSTRUCTION DOCUMENTS.
- LOCATE AND PROTECT EXISTING UTILITIES TO REMAIN DURING AND/OR AFTER CONSTRUCTION.
- REMOVE ABANDONED FOOTINGS, UTILITIES, ETC. WHICH INTERFERE WITH NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED.
- PLACE BACKFILL BEHIND RETAINING WALLS AFTER CONCRETE OR MASONRY HAS ATTAINED FULL DESIGN STRENGTH.
- MECHANICALLY COMPACT EXCAVATION BACKFILLS IN LAYERS. PROVIDE THE FOLLOWING MINIMUM COMPACTION IN ACCORDANCE WITH THE ASTM D1557 TEST METHOD TO AT LEAST 90% RELATIVE COMPACTION:

III. CAST-IN-PLACE CONCRETE

- PROPORTION, MIX, TRANSPORT AND PLACE CAST-IN-PLACE CONCRETE IN ACCORDANCE WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE,"
- ALL CONCRETE SHALL BE STRUCTURAL CONCRETE UNLESS OTHERWISE NOTED. STRUCTURAL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE, SHALL CONTAIN A MINIMUM OF SIX SACKS OF CEMENT PER CUBIC YARD, AND SHALL DEVELOP A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI.

IV. STRUCTURAL STEEL

- FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH AISC 360, AISC 303 AND AISC 340. WELDED CONNECTIONS TO CONFORM TO AWS D1.1 AND STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:

SECTIONS	TYPE
ROLLED SHAPES	
WIDE FLANGES	ASTM A992
CHANNELS, ANGLES, & OTHER	ASTM A36

- ARC-WELDING ELECTRODES/FILLER METALS TO BE LOW HYDROGEN TYPES E7XTX, E7XTXX OR E70XXX MINIMUM AS APPLICABLE.
- WELDERS TO BE CERTIFIED BY AWS WITHIN THE PAST 12 MONTHS.

V. TIMBER LAGGING

- TIMBER LAGGING SHALL BE ROUGH DOUGLAS FIR SELECT STRUCTURAL OR NO. 1 AS NOTED ON DRAWINGS (COAST REGION), GRADED, INSPECTED AND APPROVED BY THE WEST COAST LUMBER INSPECTION BUREAU OR THE WESTERN WOOD PRODUCTS ASSOCIATION. LAGGING SHALL BE PRESSURE TREATED WITH ALKALINE COPPER QUAT (ACQ), OR AMMONIACAL COPPER ARSENATE (ACA), OR APPROVED EQUIVALENT IN ACCORDANCE WITH THE "STANDARD FOR PRESERVATIVE TREATMENT BY PRESSURE PROCESSES - ALL TIMBER PRODUCTS" BY THE AMERICAN WOOD PRESERVERS BUREAU. MINIMUM RETENTION SHALL BE 0.4 POUNDS PER CUBIC FOOT OR REFUSAL. FIELD CUT SURFACES SHALL BE TREATED WITH ACQ, ACA, OR EQUIVALENT SOLUTION. ALL WOOD TO REMAIN IN THE GROUND SHALL BE TREATED.
- ALL NAILS AND SCREWS SHALL COMPLY WITH SECTION 2304.9.5.1 (CHAPTER 23).

VI. PROCEDURES FOR SOLDIER PILE INSTALLATION

- DRILL SOLDIER PILE CAISSONS.
- PLACE SOLDIER PILES WITH POSITIVE MEANS OF SECURING IN PLACE DURING POURING OF CONCRETE. SOLDIER PILES SHALL BE PLUMB WITHIN 1 PERCENT THROUGHOUT THEIR LENGTH.
- FILL CAISSONS WITH CONCRETE. PLACE CONCRETE THROUGH A RIGID TREMIE OR PUMP PIPE LOCATED WITHIN ONE FOOT OF THE BOTTOM OF THE CAISSON AT THE BEGINNING OF CONCRETING AND MAINTAINED A MINIMUM OF 5 FEET AND A MAXIMUM OF 10 FEET BELOW THE SURFACE OF THE CONCRETE THEREAFTER.
- SOLDIER PILE CORROSION PROTECTION:
 - ABOVE THE BOTTOM OF RETAINING WALL THE SOLDIER BEAM SHALL BE EITHER HOT DIP GALVANIZED, OR COAL TAR EPOXY PAINTED.
 - BELOW THE BOTTOM OF RETAINING WALL:
 - WHERE STRUCTURAL CONCRETE IS USED AND THERE IS A 3" MINIMUM CONCRETE COVER OVER THE SOLDIER PILE, THE PILE DOES NOT NEED TO BE CORROSION PROTECTED.
 - WHERE STRUCTURAL CONCRETE IS USED AND THERE IS NOT A 3" MINIMUM CONCRETE COVER OVER THE SOLDIER BEAM, THE BEAM SHALL BE EITHER HOT DIP GALVANIZED, OR COAL TAR EPOXY PAINTED.

VII. STRUCTURAL TESTS, INSPECTIONS, AND OBSERVATIONS

- AN INDEPENDENT TESTING AGENCY AND SPECIAL INSPECTORS WILL BE RETAINED BY THE OWNER TO PERFORM TESTS AND INSPECTION.
- THE FOLLOWING ITEMS REQUIRE TESTS AND INSPECTIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CHAPTER "STRUCTURAL TESTS AND INSPECTIONS" OF THE APPLICABLE CODE. REQUIREMENTS FOR TESTS AND INSPECTIONS ARE IDENTIFIED IN THE SPECIFICATIONS.
 - EXCAVATIONS
- NOTIFY THE ENGINEER AT SIGNIFICANT CONSTRUCTION STAGES 72 HOURS IN ADVANCE AND PROVIDE ACCESS FOR THE FOLLOWING STRUCTURAL OBSERVATIONS
- THE GEOTECHNICAL ENGINEER (A3GEO) SHOULD OBSERVE THE DRILLING FOR INSTALLATION OF SOLDIER PILES.

VIII. DESIGN CRITERIA

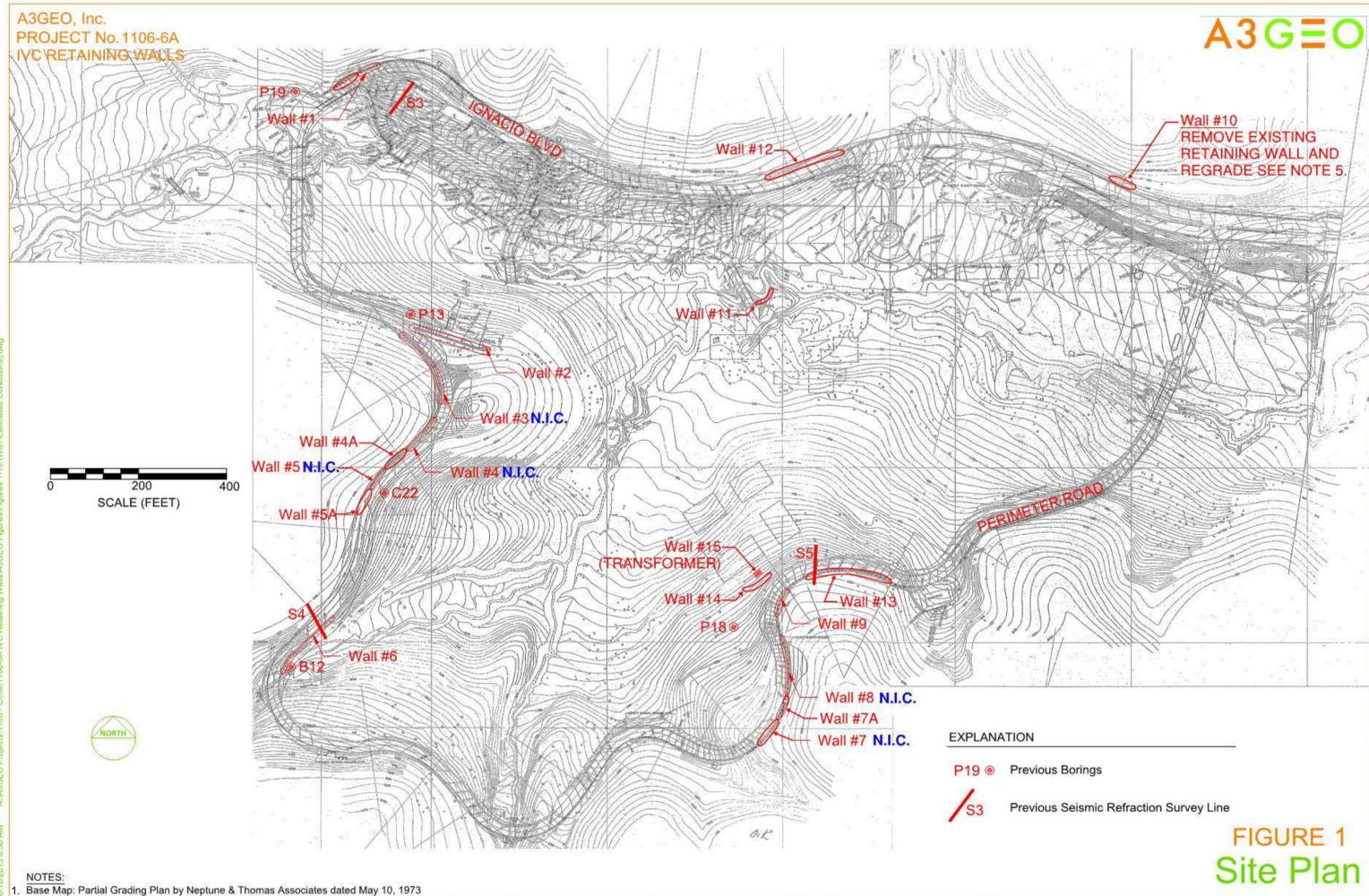
- APPLICABLE CODE: 2013 CALIFORNIA BUILDING CODE
- SOIL RETAINING STRUCTURES HAVE BEEN DESIGNED WITH THE FOLLOWING CRITERIA:

LATERAL DESIGN PRESSURES:

BACKSLOPE (H:V)	UNRESTRAINED ACTIVE PRESSURE (PCF)	SEISMIC INCREMENT (PSF)
LEVEL	45	12H*
3:1	50	14H*
1.5:1	90	24H*

*H REFERS TO THE HEIGHT OF THE SOIL RETAINED.

VEHICLE SURCHARGE = 100 PSF MIN.



- NOTES:**
- Base Map: Partial Grading Plan by Neptune & Thomas Associates dated May 10, 1973
 - SEE SHEETS S-002, S-003, S-004 FOR WALL ELEVATIONS WHERE REPAIR IS NEEDED.
 - WHERE RETAINING WALL REPAIR/REPLACEMENT REQUIRES REMOVAL OF (E) ROADWAY ASPHALT AND/OR CURB, REPLACE IN KIND.
 - WHERE RETAINING WALL REPAIR/REPLACEMENT REQUIRES REMOVAL OF (E) LIGHT POLE FOUNDATIONS, RETAIN POLE AND FIXTURE AND REINSTALL W/ NEW FOUNDATION PER 9/S-200. COORDINATE LIGHT POLE LOCATIONS WITH OWNER REPRESENTATIVE AND LOCATE BETWEEN (E) WOOD POLES AND/OR NEW SOLDIER PILES.
 - PROVIDE JUTE NETTING AT ALL CUT AND FILL LOCATIONS PER MANUFACTURER RECOMMENDATIONS. REFER TO OWNER REPRESENTATIVE FOR RESEEDING REQUIREMENTS.

- EXPLANATION**
- P19 ● Previous Borings
 - S3 / Previous Seismic Refraction Survey Line

FIGURE 1
Site Plan

1 SITE PLAN
N.T.S.



DEGENKOLB ENGINEERS
1300 Clay Street, Suite 900
Oakland, CA 94612
510.272.8500 Phone
510.272.8520 Fax
www.degenkolb.com
Project No. AS493006.00



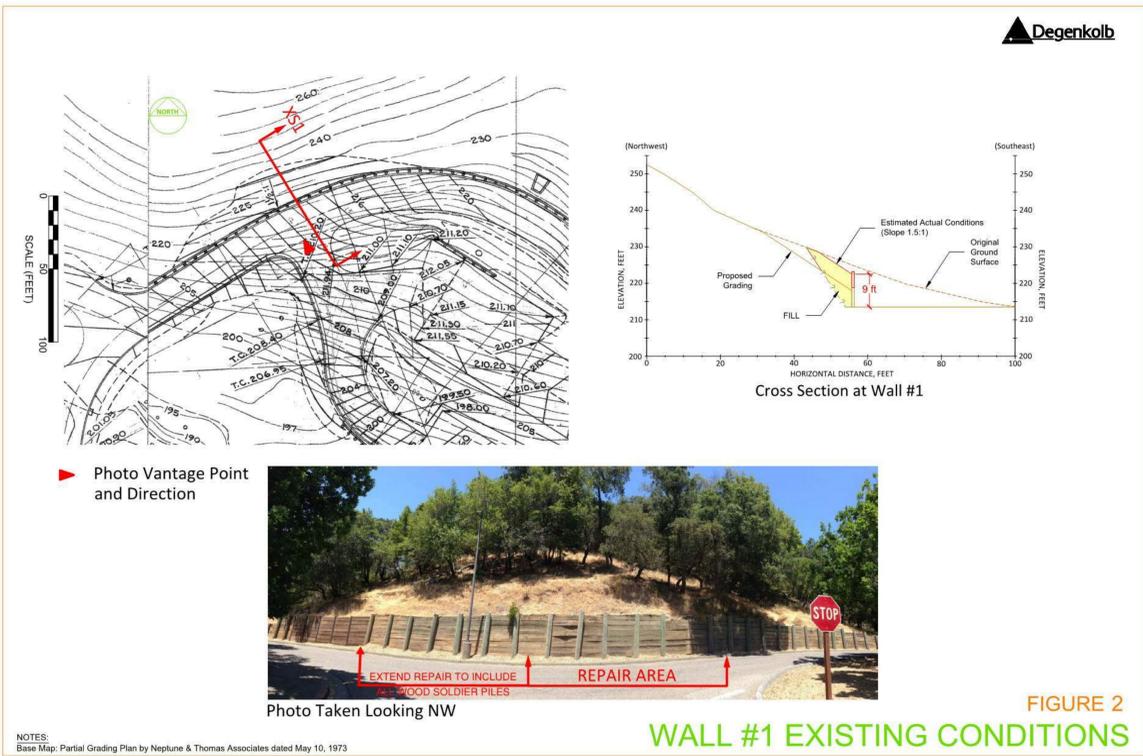
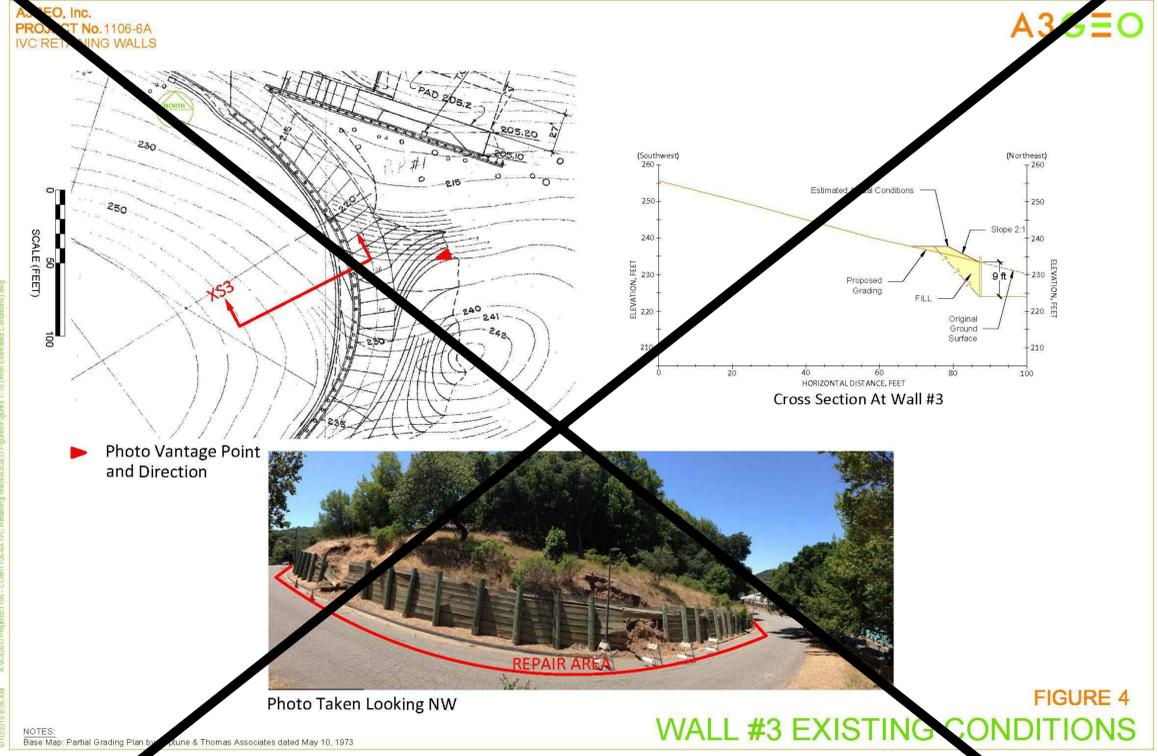
SITE PERIMETER ROAD
RETAINING WALLS
REPAIR / REPLACEMENT

IVC CAMPUS

District Project # 302B
AE Project # AS493006.00 date: 08/17/2016
drawn by: checked by: EJM

SITE PLAN

S-001



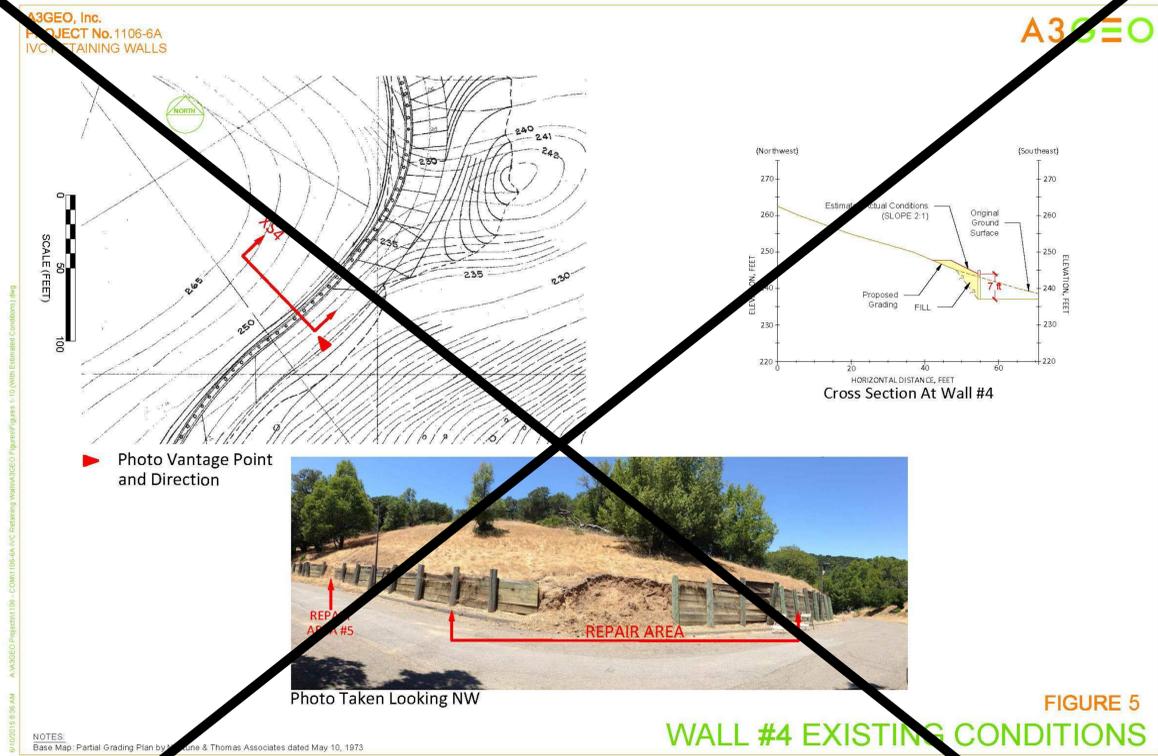
RECOMMEND REPLACE RETAINING WALL IN LINE WITH EXISTING WALL PER 7/S-200.

RECOMMEND REPLACE RETAINING WALL IN FRONT OF EXISTING WALL PER 8/S-200. APPROXIMATELY 83 FT OF DAMAGED WALL TO REPLACE.

N.I.C.

2 WALL #3 EXISTING CONDITIONS
N.T.S.

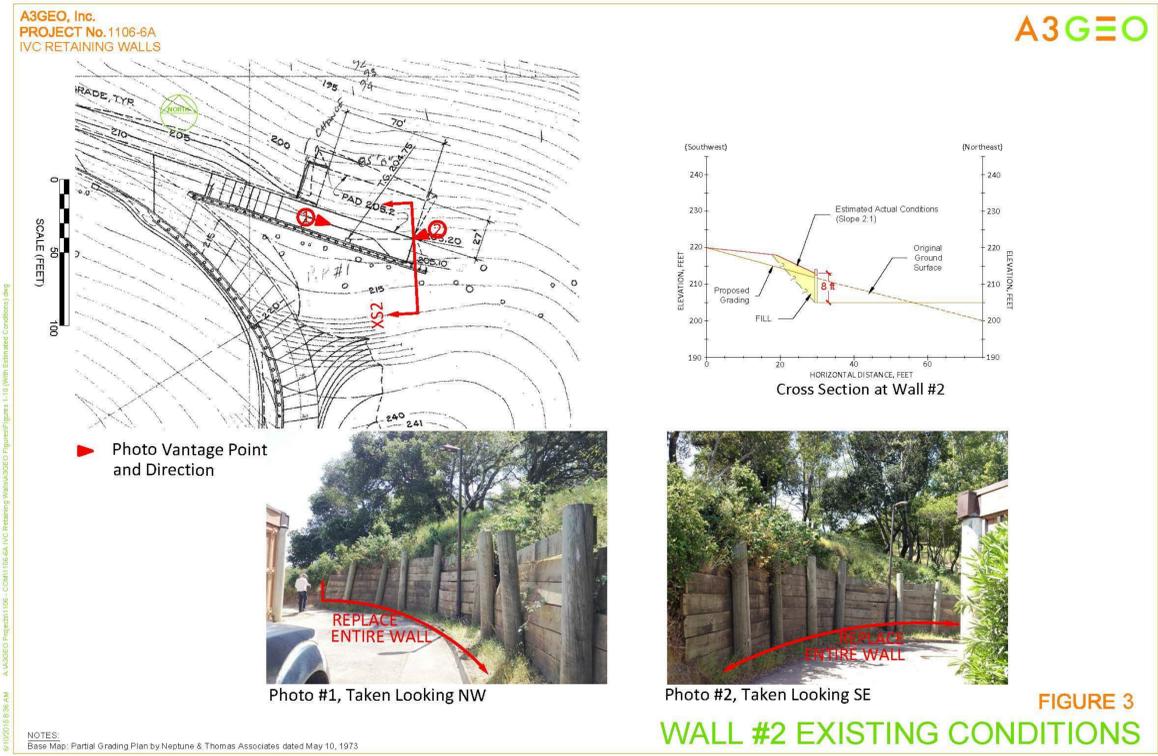
1 WALL #1 EXISTING CONDITIONS
N.T.S.



RECOMMEND REPLACE RETAINING WALL IN LINE WITH EXISTING WALL PER 7/S-200.

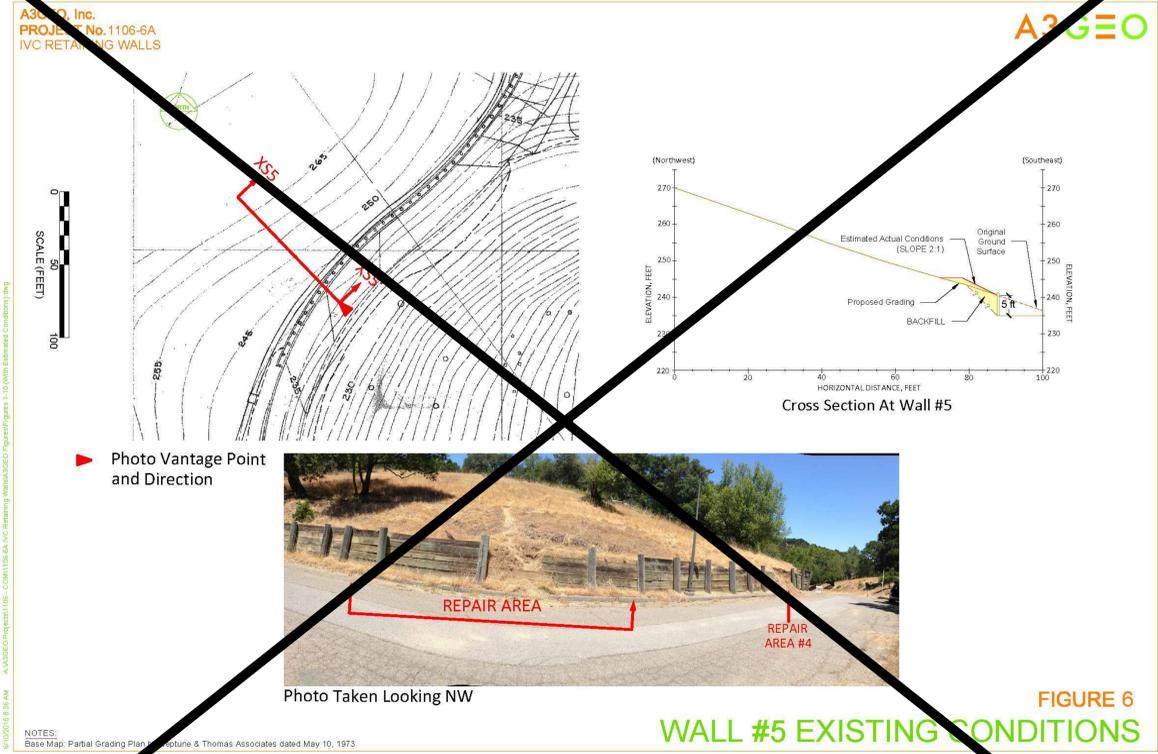
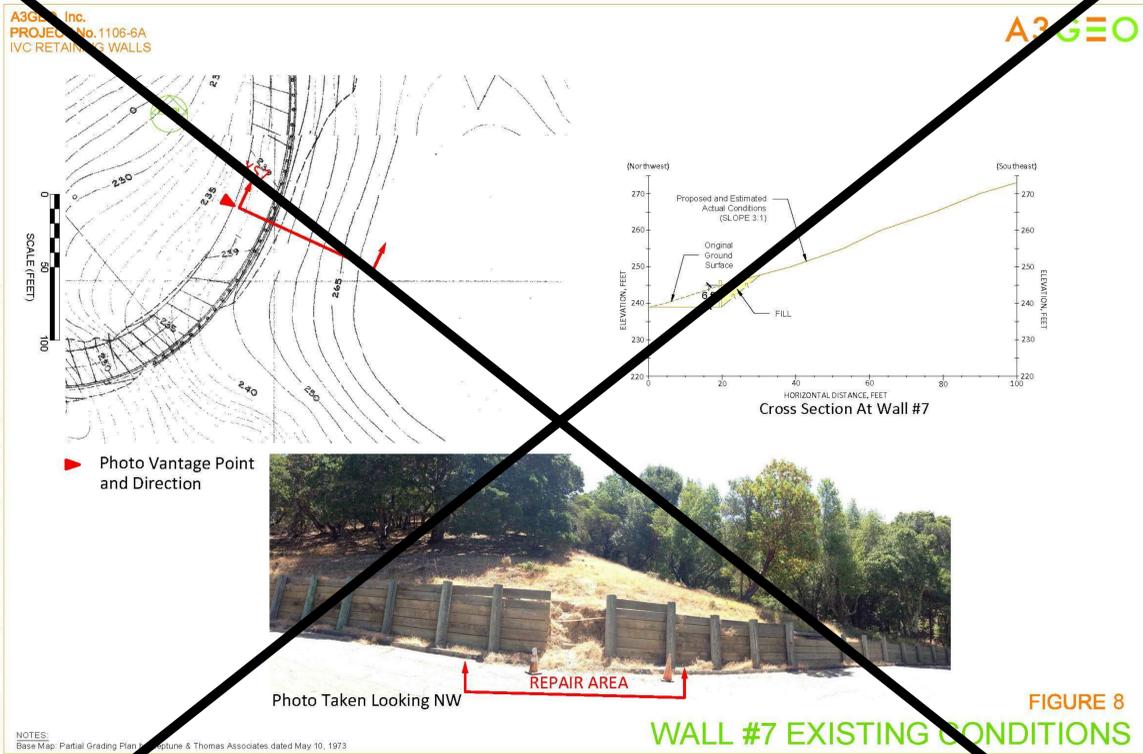
N.I.C.

4 WALL #4 EXISTING CONDITIONS
N.T.S.



RECOMMEND REPLACE RETAINING WALL IN LINE WITH EXISTING WALL PER 7/S-200. APPROXIMATELY 114 FT OF DAMAGED WALL TO REPLACE.

2 WALL #2 EXISTING CONDITIONS
N.T.S.

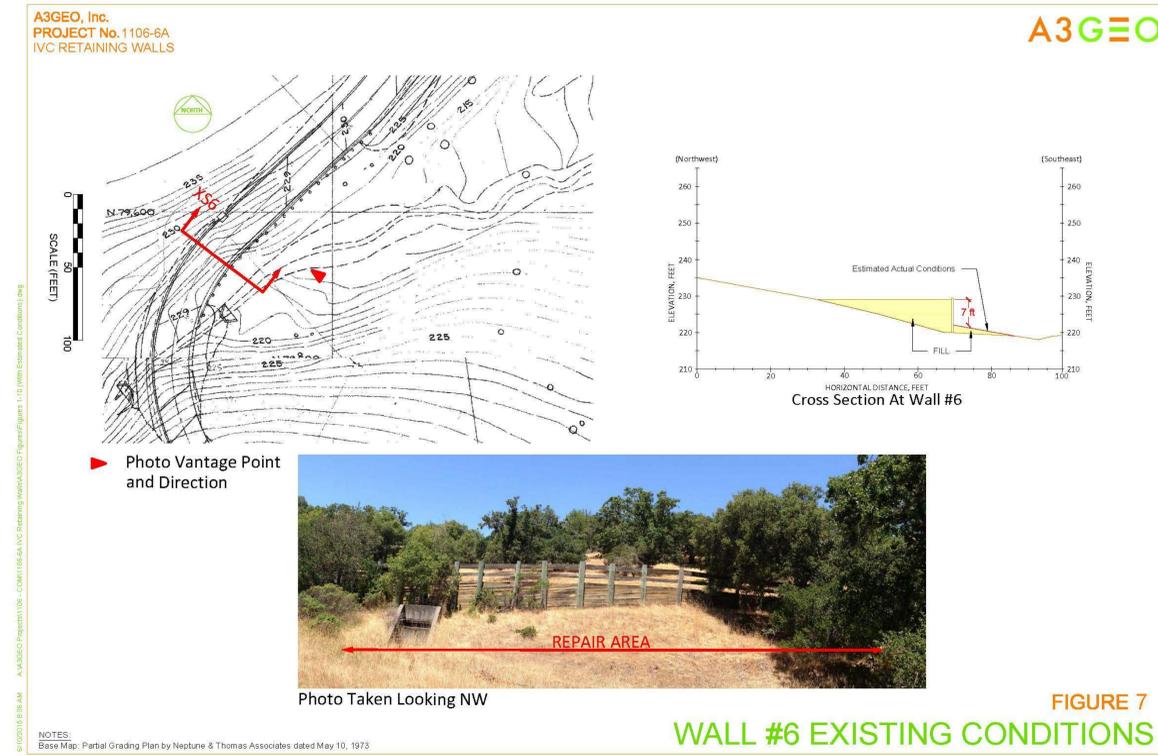
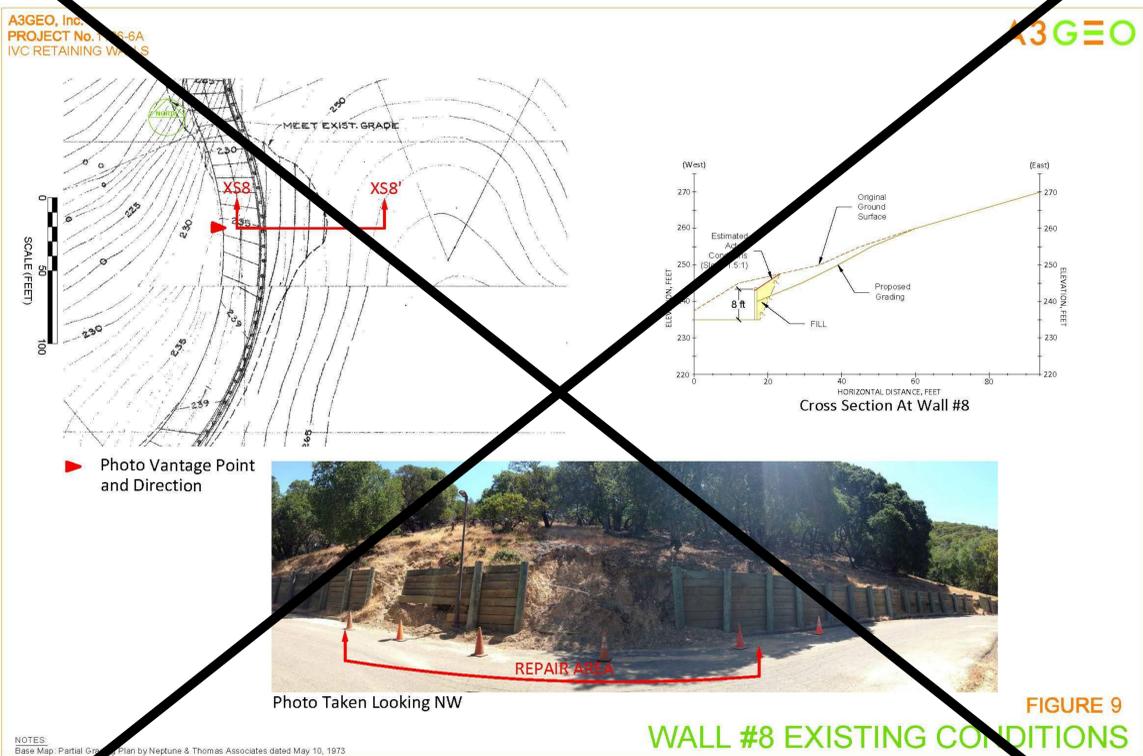


2 WALL #7 EXISTING CONDITIONS
N.T.S.

N.I.C.

1 WALL #5 EXISTING CONDITIONS
N.T.S.

N.I.C.



2 WALL #8 EXISTING CONDITIONS
N.T.S.

N.I.C.

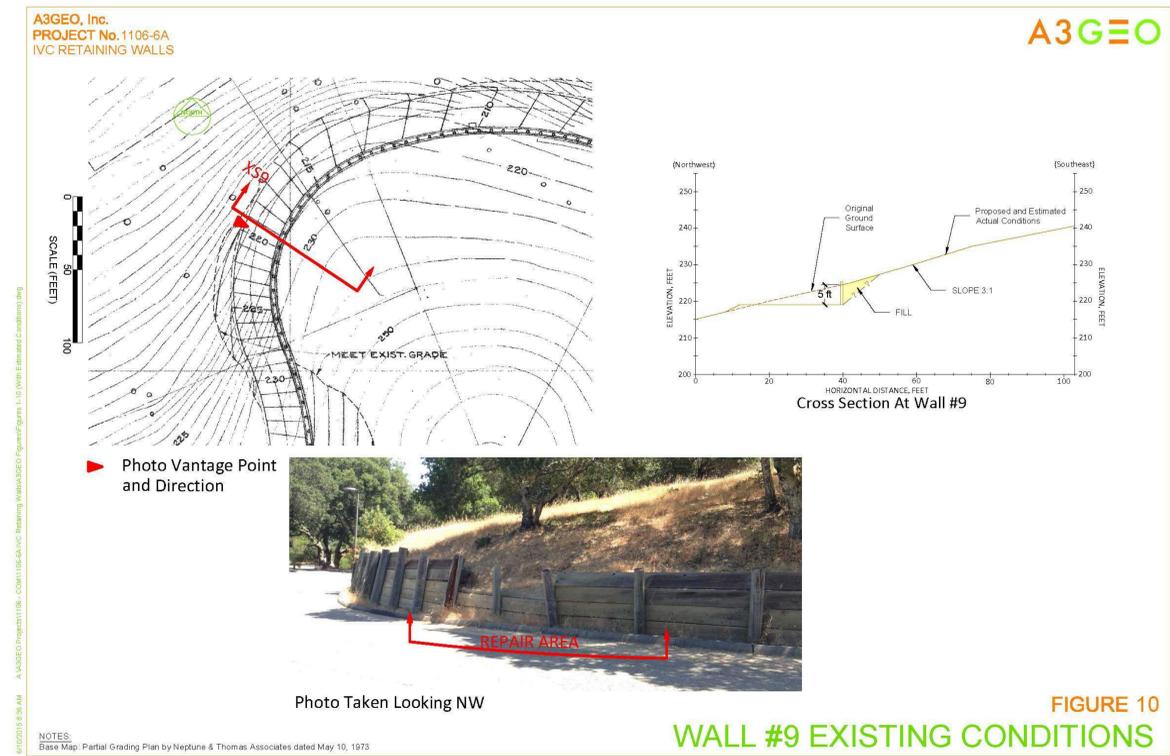
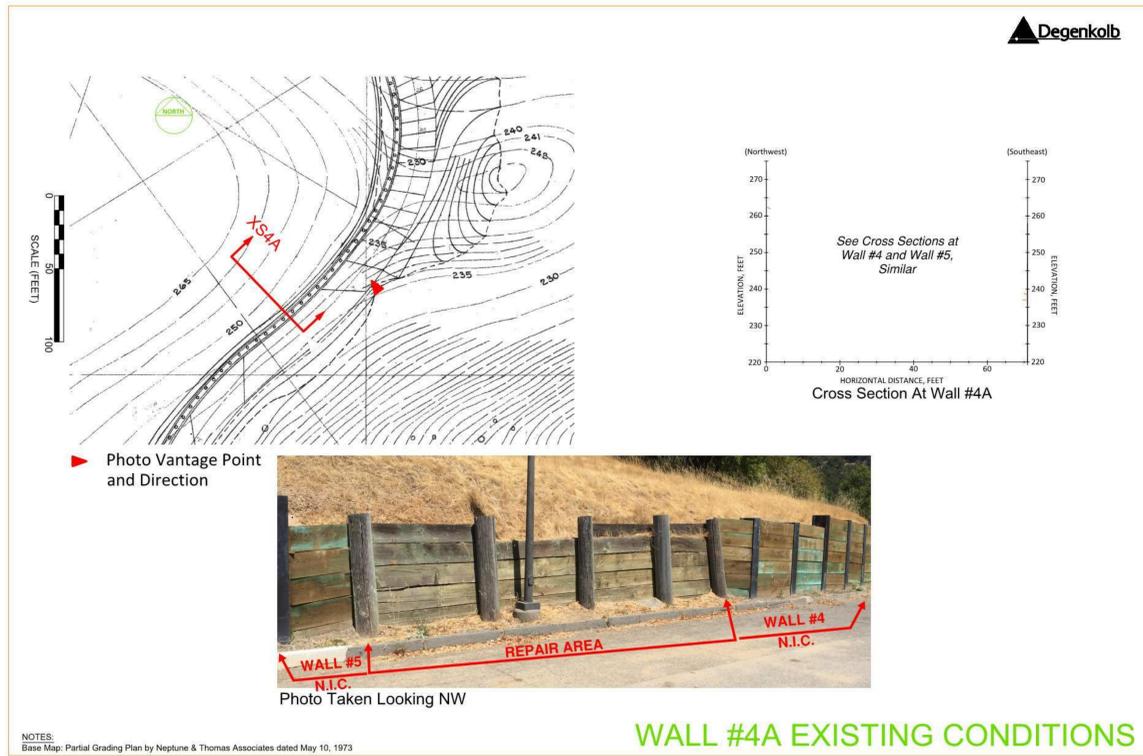
2 WALL #6 EXISTING CONDITIONS
N.T.S.

RECOMMEND REPLACE RETAINING WALL IN LINE WITH EXISTING WALL PER 7/S-200.

RECOMMEND REPLACE RETAINING WALL IN LINE WITH EXISTING WALL PER 7/S-200.

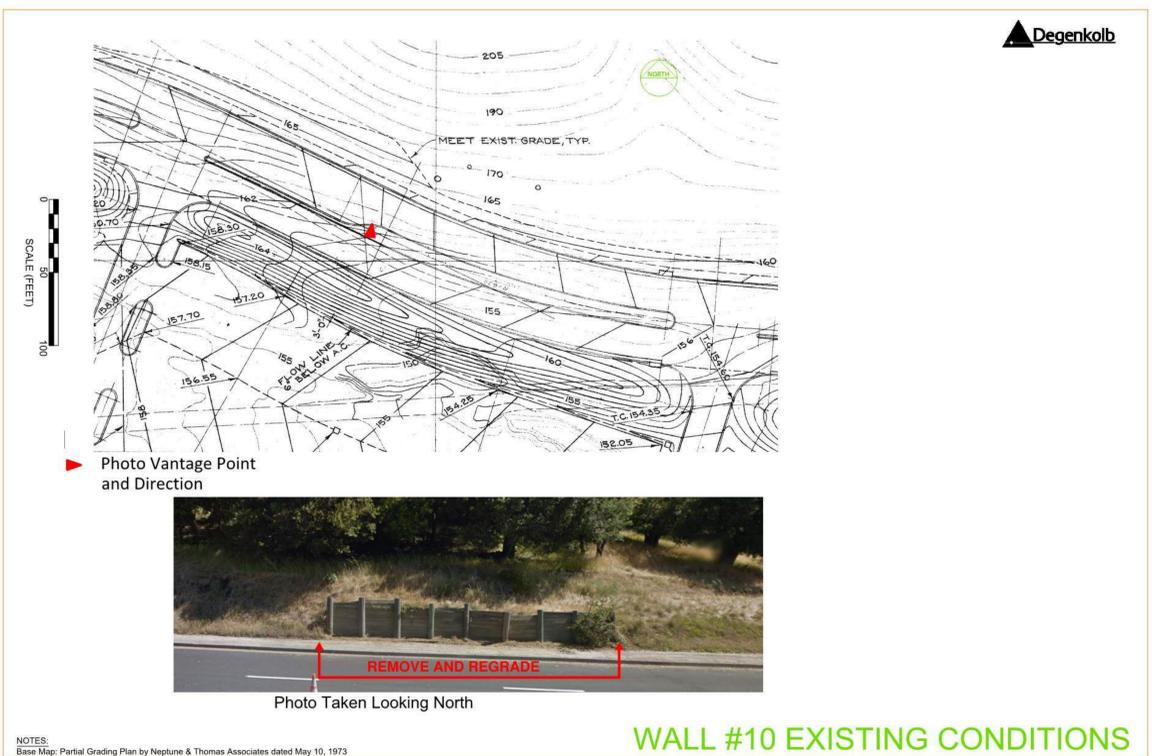
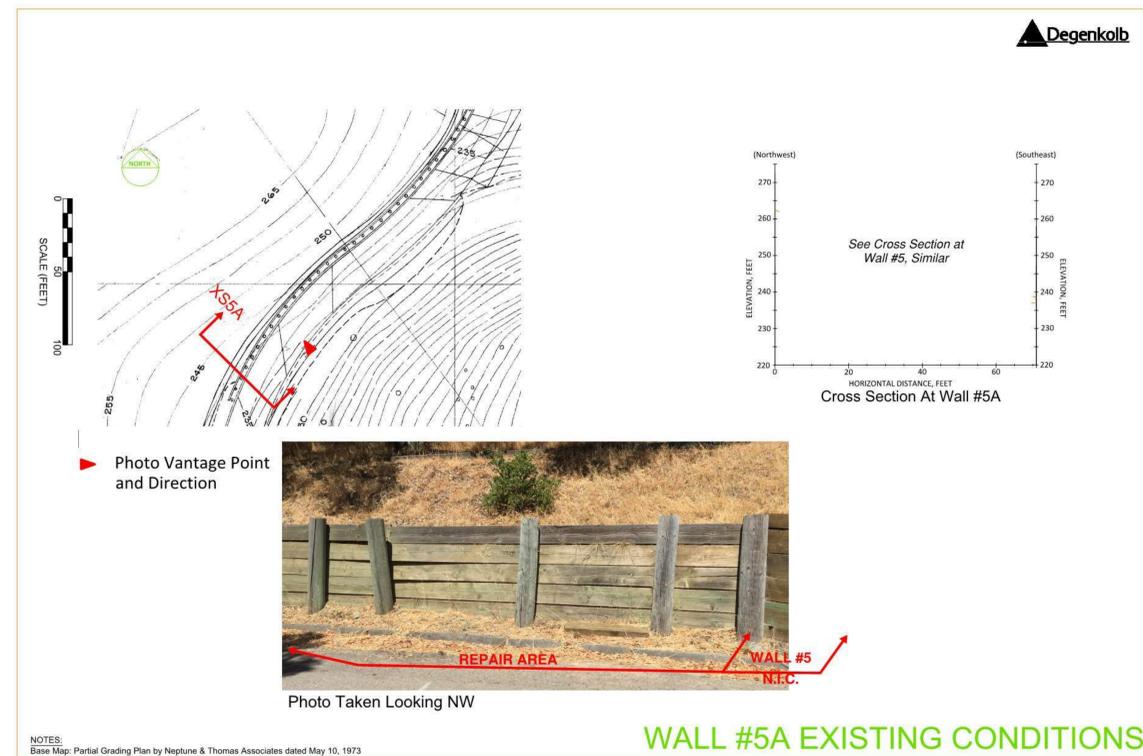
RECOMMEND REPLACE RETAINING WALL IN LINE WITH EXISTING WALL PER 7/S-200.

RECOMMEND REPLACE RETAINING WALL IN LINE WITH EXISTING WALL PER 7/S-200.
APPROXIMATELY 174 FT OF DAMAGED WALL TO REPLACE.



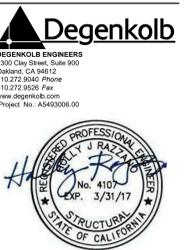
3 WALL #4A EXISTING CONDITIONS
N.T.S.

1 WALL #9 EXISTING CONDITIONS
N.T.S.



4 WALL #5A EXISTING CONDITIONS
N.T.S.

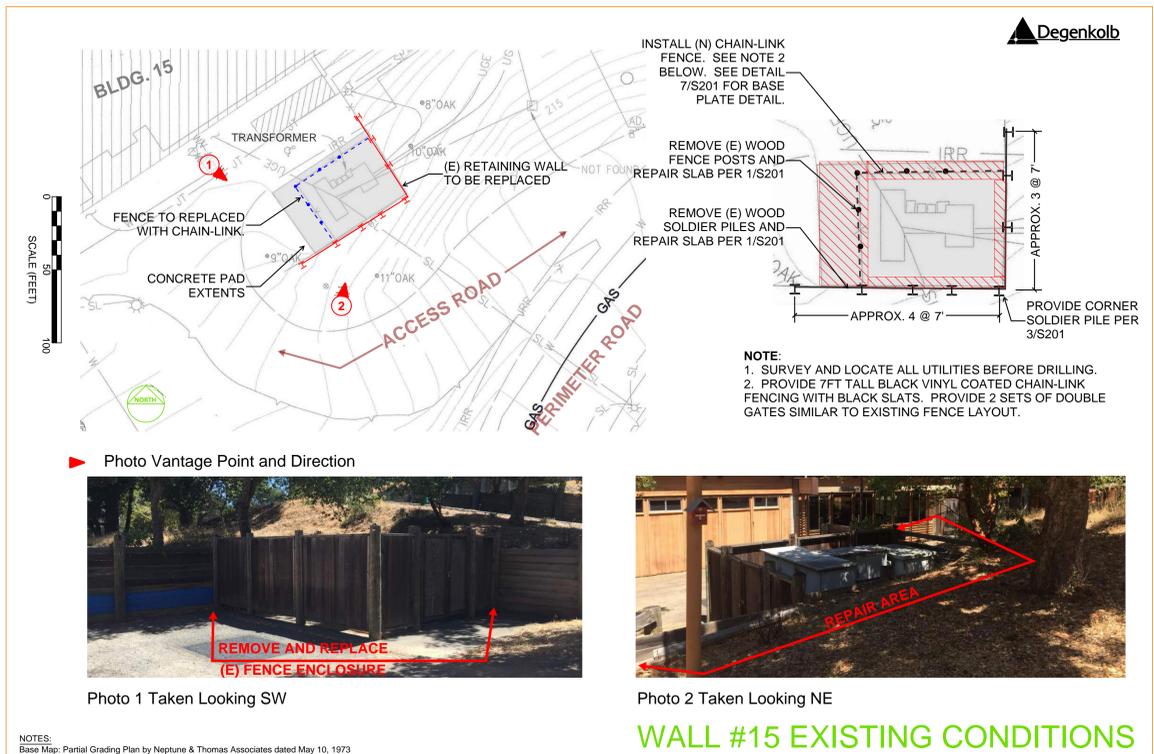
2 WALL #10 EXISTING CONDITIONS
N.T.S.





RECOMMEND REPLACE RETAINING WALL IN LINE WITH EXISTING WALL PER 7/S-200.
APPROXIMATELY 70 FT OF DAMAGED WALL TO REPLACE.

1 WALL #14 EXISTING CONDITIONS
N.T.S.



RECOMMEND REPLACE RETAINING WALL IN LINE WITH EXISTING WALL PER 7/S-200.
APPROXIMATELY 50 FT OF DAMAGED WALL TO REPLACE.

2 WALL #15 EXISTING CONDITIONS
N.T.S.

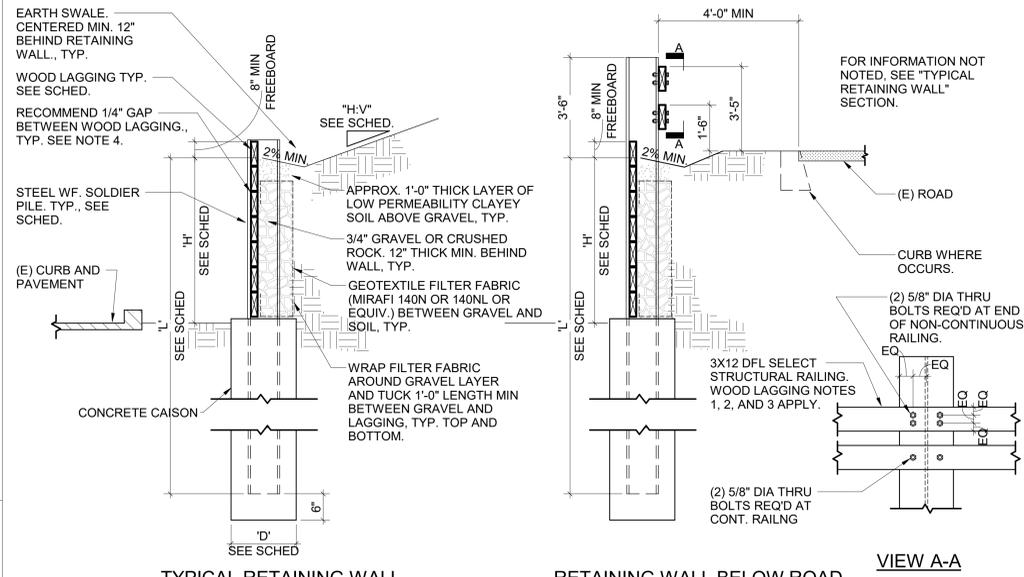
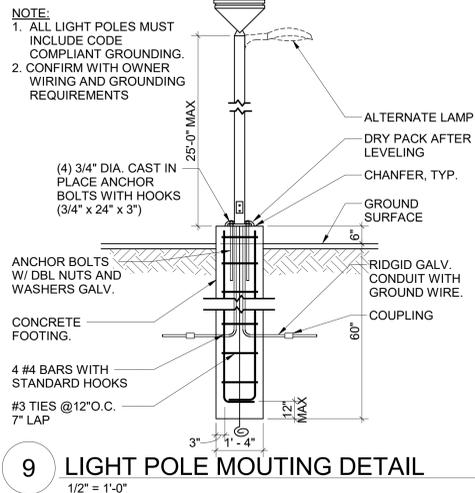
SITE PERIMETER ROAD
RETAINING WALLS
REPAIR / REPLACEMENT

IVC CAMPUS

District Project # 302B
AE Project # AS493006.00 date: 08/17/2016
drawn by: checked by: EJM

RETAINING WALL
ELEVATIONS

S-006



SOLDIER PILE SCHEDULE

MAX BACK SLOPE, "H":V"	MAX HEIGHT "H"	STEEL SOLDIER PILE SIZE	LENGTH OF STEEL PILE	CONCRETE CAISSON DIA, "D"
1.5:1 MAX.	9'-0"	W14x82	30'-0"	24"
	6'-0" 3'-0"	W8x58 W8x31	22'-0" 12'-6"	18"
3.0:1 MAX.	9'-0"	W14x82	24'-6"	24"
	6'-0" 3'-0"	W8x58 W8x31	17'-6" 10'-0"	18"
FLAT W/ ROAD	15'-0"	W21x166	46'-0"	30"
	6'-0" 3'-0"	W8x58 W8x31	21'-0" 12'-6"	18"

WOOD LAGGING SCHEDULE

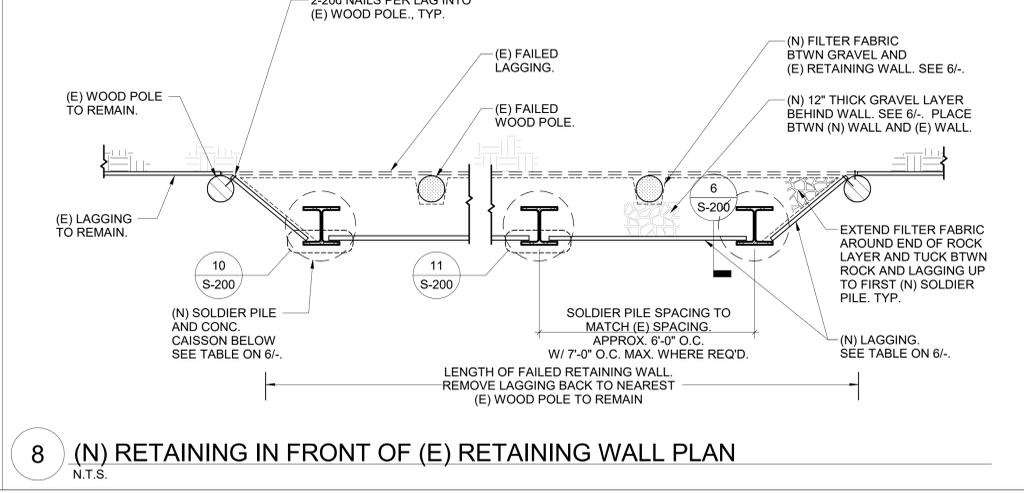
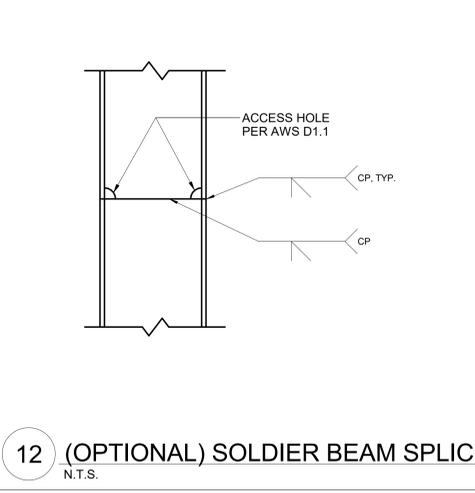
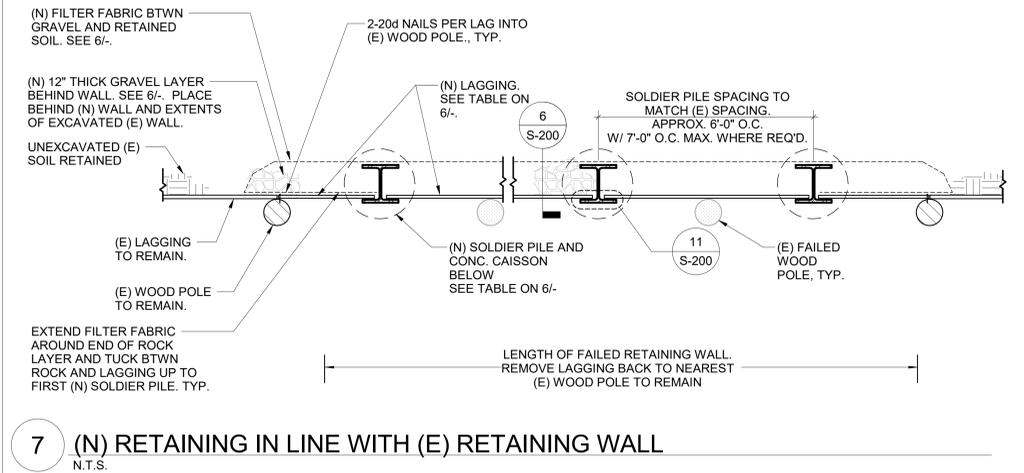
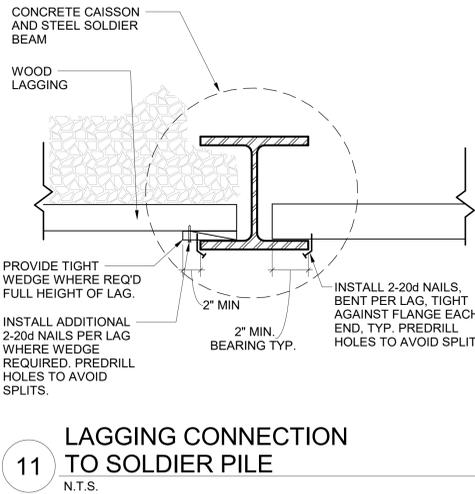
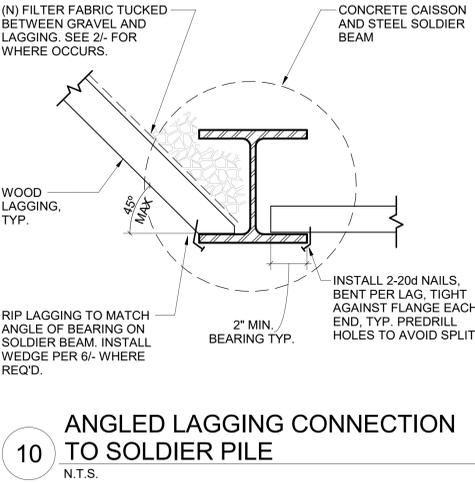
WALL HEIGHT, "H"	LAGGING SIZE
9'-0" > "H" > 6'-0"	4x12 DFL No 1
"H" < 6'-0"	3x12 DFL No 1
15'-0" > "H" > 9'-0", BELOW ROAD	4x12 DFL SELECT STRUCTURAL
9'-0" > "H" > 6'-0", BELOW ROAD	4x12 DFL SELECT STRUCTURAL
"H" > 6'-0", BELOW ROAD	3x12 DFL SELECT STRUCTURAL

SOLDIER PILE NOTES:

- PROVIDE CORROSION PROTECTION TO SOLDIER PILE SECTION NOT ENCASED IN CONCRETE WITH 3" MIN CONCRETE COVER. SEE GENERAL NOTES. RECOMMEND CORROSION PROTECTION FOR HEIGHT "H" + 2'-0".

WOOD LAGGING NOTES:

- USE ROUGH SAWN DIMENSION LUMBER WITH GRADE LISTED OR BETTER.
- "GREEN" LUMBER IS NOT PERMITTED.
- USE PRESSURE TREATED LAGGING. SEE GENERAL NOTES. FIELD TREAT CUT ENDS.
- PROVIDE A SUFFICIENT GAP BETWEEN LAGGING BOARDS TO ALLOW DRAINAGE OF WATER BUT NOT LOSS OF SOIL. RECOMMEND 1/4" THICK SPACES BETWEEN LAGGING BY USING 3" DIA. GALVANIZED FLAT WASHERS TO ACHIEVE PROPER SPACING.



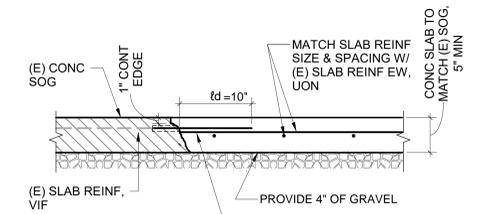
For Re-seeding Graded Areas use a Hydroseeded Mix of Native Grasses & Wildflowers as follows:

	QUANTITY
Nassella pulchra	10 lbs/acre
Koeleria micrantha	8 lbs/acre
Festuca idahoensis	8 lbs/acre
Lasthenia californica	0.5 lbs/acre
Phacelia campanularia	1.5 lbs/acre
Eschscholzia californicum var. maritime	2 lbs/acre
Lupinus nanus	2 lbs/acre
Clerkia elegans	1 lbs/acre
Achillea millefolium	1 lbs/acre
Eriophyllum confertifolium	1 lbs/acre
Wyethia angustifolia	2 lbs/acre
Bay Area Purple Needlegrass	10 lbs/acre
Native Junegrass	8 lbs/acre
Idaho Fescue Mt. Tam Type	8 lbs/acre
Dwarf Goldfields	0.5 lbs/acre
California Bluebells	1.5 lbs/acre
Native Coastal Poppy	2 lbs/acre
Sky Lupine	2 lbs/acre
Elegant Farewell to Spring	1 lbs/acre
Native White Yarrow	1 lbs/acre
Golden Yarrow	1 lbs/acre
Blue Eyed Grass	2 lbs/acre
Narrow Leafed Mule Ears	0.5 lbs/acre

APPLY HYDROSEED WITH TACKIFIER as follows:
Fiber Mulch with tackifier: Conweb Fibers Hydro Mulch 2500 at the rate of 3,000 lbs. per acre; EcoFiber; or equal fibrous, wood cellulose with tackifier containing no growth or germination inhibiting factors and manufactured in such a way that after addition and agitation in slurry tanks with fertilizer, seed, water and other approved additives, the fibers in the material become uniformly suspended to form a homogeneous slurry; and that when hydraulically sprayed on the ground, the material forms a blotter-like ground cover impregnated uniformly with seed; and which after application, allows the absorption of moisture and rainfall to percolate to the underlying soil. The fibrous mulch in its air dry state shall contain not more than 15% by weight of water. The fiber shall have a temporary green dye and shall be accompanied by a certificate of compliance stating that the fiber conforms to these specifications.

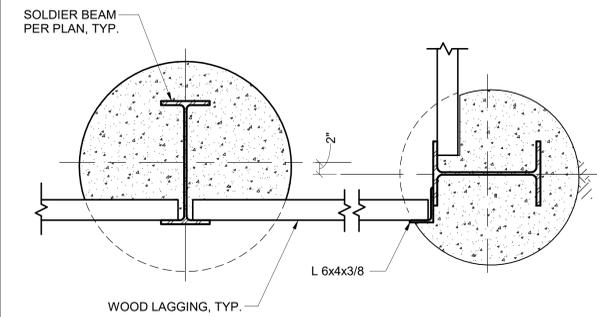
Incorporate the seed uniformly in hydromulch with tackifier at the specified rates per acre. Provide seed of the latest crop, labeled in accordance with the California Food Agriculture Code.

The Tackifier/Stabilizer shall be an organic substance supplied in powder form and shall be psilium-based and packed in clearly marked bags stating the contents of each package.



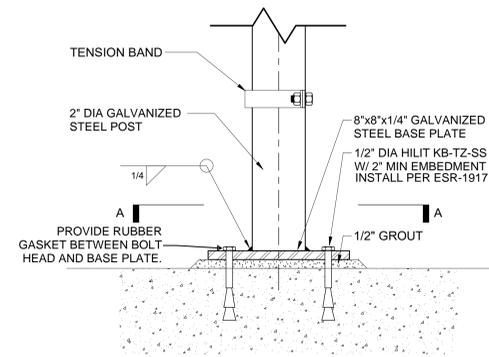
NOTE: IF (E) SLAB IS UNREINFORCED, HAS WWM, OR #5 DOWELS AND REINFORCING AT 12" O.C. EW

1 SLAB ON GROUND TO (E) SLAB ON GROUND
1" = 1'-0"

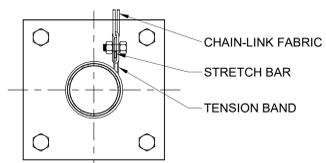
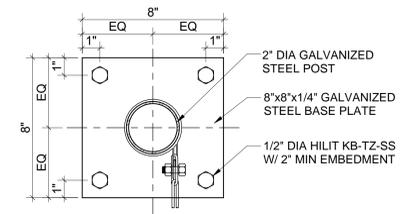


NOTES:
1. SEE 6/S200 FOR INFO. NOT SHOW.

2 SHORING PLAN DETAIL
1" = 1'-0"



ELEVATION VIEW



PLAN VIEW A-A

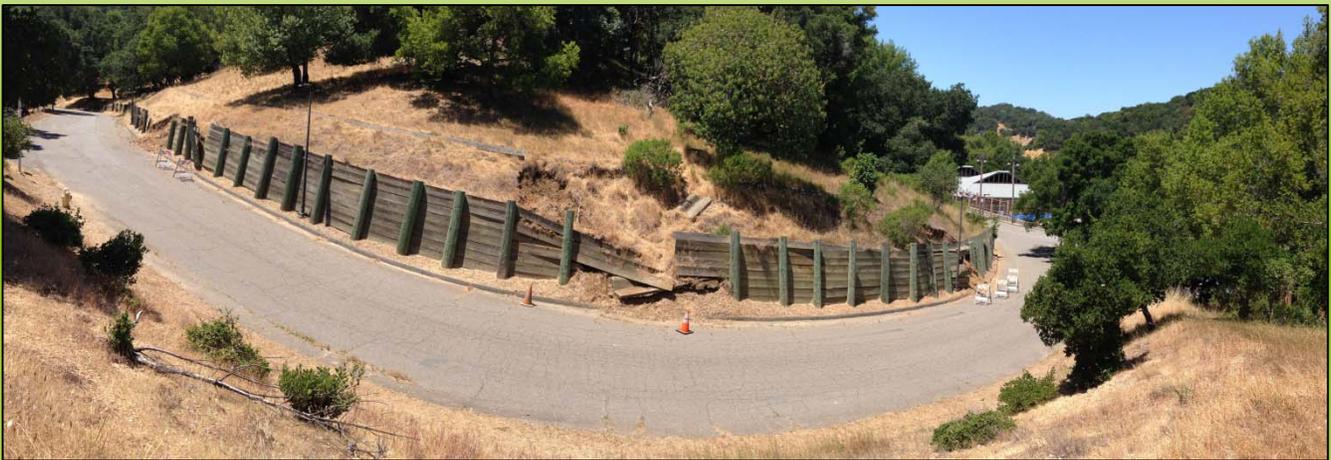
7 CHAINLINK BASE PLATE DETAIL
N.T.S.



REV.	DATE	ISSUE

Geotechnical Design Report

Repairs to Existing Retaining Walls College of Marin, Indian Valley Campus Novato, California



June 10, 2015

A3GEO

June 10, 2015

Jacobs Project Management Co.
College of Marin, Kentfield Campus
P.O. Box 144003
Kentfield, CA 94914-4003

RE: Geotechnical Design Report
Repairs to Existing Site Retaining Walls
College of Marin, Indian Valley Campus
Novato, California

This geotechnical design report presents evaluations, conclusions and recommendations for the repair of existing site retaining walls at the College of Marin, Indian Valley Campus (IVC) in Novato, California. The IVC is located at 1800 Ignacio Boulevard in, Novato, California; the campus location is shown on the Vicinity Map, Plate 1.

1.0 INTRODUCTION

The project involves repairs to failed retaining walls along a road at the perimeter of the IVC campus, which is identified on the USGS topographic quadrangle map (Plate 1) as College of Marin Avenue. This geotechnical design report pertains specifically to the nine wall failure locations identified on the Campus Aerial Photograph (Plate 2). However, it was also an objective to develop a suite of generic repair solutions that could be used in the event of future wall failures. The example photographs on Plate 3 show the types of wooden wall failures addressed by this report. As outlined in our January 27, 2015 proposal, the scope of our services included:

- Reviewing information on geotechnical, geologic, topographic and historical conditions.
- Conducting a site reconnaissance to characterize areas where wall failures have been observed.
- Collecting surface samples and conducting geotechnical laboratory tests.
- Characterizing geotechnical conditions at each wall failure location.
- Consulting with the District's Project Manager (Jacobs PM) and Structural Engineer (Holly Razzano of Degenkolb).
- Developing geotechnical recommendations for earthwork and retaining wall design/construction.
- Preparing this geotechnical design report.

The evaluations, conclusions and recommendations of this report are based on reconnaissance-level observations. No borings were drilled specifically for this study. As noted in our proposal, this investigative approach requires that we provide follow-up geotechnical observation and testing services to check assumptions during the construction of the repairs. Please note that broader evaluations, conclusions and/or recommendations pertaining to geologic hazard evaluation and mitigation were excluded from our scope as were environmental services relating to any chemical constituents that may be present in soil, groundwater, vegetation or air at the repair sites.

2.0 METHODS OF INVESTIGATION

2.1 Review of Existing Information

We reviewed a variety of references relating to geologic, seismic and geotechnical conditions at the IVC; a list of selected references is presented at the end of this report. Among the references we reviewed were: 1) a geotechnical investigation report prepared for the development of the IVC by Cooper Clark &

Associates (1973); and 2) civil and structural plans for the construction of the perimeter road and retaining walls prepared by Neptune & Thomas Associates (1973).

2.02 Site Reconnaissance Visits

During the course of our investigation, our Principal Engineer (Dona Mann, PE, GE) visited the site on multiple occasions to observe and document surface conditions, assess the geotechnical materials present at the wall failure locations, and selectively obtain samples for laboratory testing. Ms. Mann also conducted a site reconnaissance with Mr. Skaer (Jacobs) and Ms. Razzano (Degenkolb) to observe the wall failures and discuss repair approaches.

2.03 Geotechnical Laboratory Tests

Our geotechnical laboratory testing program was directed toward a quantitative and qualitative evaluation of the physical properties of representative materials at the wall failure locations. The following geotechnical laboratory tests were performed:

- Three Atterberg limits determinations per ASTM Test Designation D-4318; and
- Three percent minus #200 sieve determinations per ASTM Test Designation D1140.

Laboratory data sheets documenting the results of these tests are attached at the end of this report.

3.0 SITE CONDITIONS

3.1 Geologic and Seismic Setting

The IVC is located within a small west-east trending valley on the eastern side of the Coast Range Mountains. The USGS quadrangle map on Plate 1 shows the Elevation +200 feet¹ topographic contour passing through the central portion of the campus. The hills that bound the northern and southern sides of the valley rise to maximum elevations of about 400 to 600 feet. Plate 1 shows a blue-line stream flowing from west to east through the northern portion of the IVC. Runoff from the hills to the north and south of the IVC flows into the main stream course stream through various tributary drainages locally sculpting the surface terrain.

The USGS Geologic Map presented on Plate 4 (Graymer and others, 2006) shows the hills in the vicinity of the site comprised almost entirely of Franciscan Complex sedimentary rocks. The lower reaches of the valley that contains the IVC are mapped as alluvium. The USGS map by Graymer and others (2006) interprets the near-surface alluvium within the IVC as Holocene in age (younger than about 11,000 years). The regional geologic map on Plate 4 generally shows the wall failure locations near the interpreted contact² between upslope Franciscan Complex Sedimentary rock and the Holocene alluvium.

The seismicity of the region is well-recognized; A 2010 map by Jennings and Bryant shows the closest Holocene-active faults to the site are the San Andreas (≈11.0 miles southwest), the Hayward (≈12.4 miles southeast) and the Rodgers Creek (≈9.8 miles northeast). The probabilities of least one magnitude 6.7 or greater earthquake occurring on the San Andreas fault or the Hayward/Rodgers Creek fault system before 2037 have been estimated as 0.21 (21 percent) and 0.31 (31 percent), respectively (WGCEP, 2008).

3.2 Retaining Wall and Perimeter Road Construction Drawings

Plans for the construction of the perimeter road and retaining walls (Neptune & Thomas Associates, 1973) include: 1) structural drawings for the wooden retaining walls, and 2) civil grading plans showing predevelopment and proposed (design) topographic elevation contours. A summary of key information shown on the 1973 plans follows:

¹ Relative to North American Vertical Datum of 1988 (NAVD88)

² All geologic contacts shown on the USGS regional geologic maps should be considered approximate.

Retaining Walls: Plate 5 presents a retaining wall section and schedule from Sheet CV16 of the plans (Neptune & Thomas Associates, 1973). The section shows poles installed at an inclination of 1:6 (Horizontal to Vertical) and rough 2" plank lagging between poles. The schedule shows walls up to 8 feet high built using 8-, 12-, and 14-inch-diameter poles with embedment depths (below top-of-curb) of at least 7.0, 9.5, and 11.5 feet (respectively). The section shows poles spaced on 6-foot centers with the note "place in augered hole, tamp fill around pole as required." The section indicates that "poles and planking shall be chemonite treated"; Chemonite® is a registered trade name for wood protected ammoniacal copper zinc arsenate³ (ACZA). The ground surface above the wall is shown at an inclination of 1.5:1 (Horizontal to Vertical) with the note: "max. cut slope." The section on Plate 5 shows planks nailed to the back side of the poles, which was confirmed during our recent onsite observations (Plate 6).

Grading Plans: The 1973 grading plans consist of multiple plan-sized sheets, which we stitched together to create the Site Plan presented on Figure 1. In general, the grading plans show the perimeter road closely follows the natural topography with relatively minor cuts and fills. In areas of steeper terrain, the plans show upslope cuts retained by walls up to about 8 feet high (as discussed previously). More detailed views of the grading plans at the nine wall repair locations are presented on Figures 2 through 10.

The conditions observed in the field appeared generally consistent with the retaining wall and perimeter road construction depicted in the 1973 plans by Neptune & Thomas with the exception of the following:

- Some of the retained wall heights measured in the field exceeded the maximum wall height of 8 feet shown on the plans.
- The backslope inclination behind the walls shown on the grading plans did not always appear to coincide with what was actually constructed. Often, the backslopes appeared steeper than what was shown on the plans.
- The retaining wall design on the plans does not show fill behind the walls; however, based on our observations, we interpret fill behind all of the retaining walls.

3.3 Surface Conditions

A summary of our onsite observations is presented in the following table.

Summary of Onsite Observations

Wall ID	Maximum Measured Retained Height	Estimated Backslope Inclination ⁴ (H:V)	Description of Retained Soil
1	9 feet	1.5:1	Yellowish brown sandy clay / clayey sand (CL/SC) with fine gravel, dry (FILL)
2	8 feet	2:1	Yellowish brown sandy clay (CL) with gravel and sandstone fragments, dry (FILL)
3	9 feet	2:1	Yellowish brown sandy clay / clayey sand (CL/SC) with gravel/rock fragments, dry (FILL)
4	7 feet	2:1	Dark brown sandy fat clay, dry (CH) (FILL)
5	5 feet	2:1	Yellowish brown sandy clay / clayey sand (CL/SC) with gravel/rock fragments, dry (FILL)
6	7 feet	Level	Not visible; AC paved road behind wall (FILL)
7	6 feet	3:1	Yellowish brown sandy clay / clayey sand (CL/SC) with gravel/rock fragments, dry (FILL)
8	8 feet	1.5:1	Yellowish brown sandy clay / clayey sand (CL/SC) with gravel/rock fragments, dry (FILL)
9	5 feet	3:1	Yellowish brown sandy clay / clayey sand (CL/SC) with gravel/rock fragments, dry (FILL)

³ The Environmental Protection Agency (EPA) has requirements pertaining to the handling, disposal, burning and reuse of ACZA-treated wood; consultation and recommendations relating to environmental issues falls outside of our geotechnical scope and should be provided by others.

⁴ Our estimated backslope inclinations are based on visual approximations only. We did not survey the ground surface. Actual backslope inclinations need to be verified prior to construction.

As indicated in the preceding table, we observed and described the characteristics of the retained soil at all locations except Wall #6 where the ground surface behind the wall was paved. At all nine locations, the material in direct contact with the backside of the wall is characterized as fill, which is consistent with the plank nailing approach shown on Plates 5 and 6. Except for Wall #4, the fill material we observed was yellowish brown in color, classifies as a sandy clay or clayey sand and contains gravel and/or sandstone fragments. The fill we observed at the location of Wall #4 was dark brown in color and classifies as fat clay. Laboratory test data for the three bulk samples we collected are presented in the following table.

Summary of Laboratory Test Data

Wall ID	Fines Content	Plasticity Index	Liquid Limit
1	51%	2	22
2	39%	7	27
4	78%	32	56

Figures 2 through 10 further illustrate surface conditions at each of the nine wall failure locations. Each figure includes:

1. A detail from the 1973 grading plan at 1"=50' scale showing:
 - o Pre-development (original) and proposed topographic contours;
 - o The proposed retaining wall alignment and pole locations;
 - o The location of the interpretive cross section developed for this study; and
 - o Vantage point(s) and direction(s) of site photograph(s).
2. An interpretive cross section showing:
 - o The pre-development (original) ground surface;
 - o The proposed ground surface and wall height; and
 - o The interpreted actual conditions and "prism" of fill behind the wall, where appropriate.
3. One or more site photograph(s) showing:
 - o Site conditions as they appeared in June 2015; and
 - o The approximate width of the suggested repair.

As shown on the photographs on Plate 3 and Figures 2 through 10, the nine repair locations include wall failures involving rotated, broken or missing poles and buckled, broken or missing planking. In some cases, the lateral extent of ground movement behind the wall could not be determined. In other cases, landslide-type ground movement is evident as defined by scarps and/or cracks at the upslope perimeter and disturbed and bulging soil at the wall location.

3.4 Subsurface Conditions

The geotechnical investigation report for the development of the IVC (Cooper & Clark, 1973) includes limited subsurface along the perimeter road alignment. The locations of previous borings and seismic refraction survey lines closest to the nine wall failure locations are indicated on Figure 1; data from these subsurface explorations are attached in Appendix A, for reference.

4.0 GEOTECHNICAL EVALUATIONS

4.1 General

The primary purpose of this report is to provide geotechnical engineering recommendations for the repair of failed wooden retaining walls along the IVC perimeter access road. As currently envisioned, future repairs would involve replacing (reconstructing) failed sections of wall with new soldier pile and lagging wall sections. Soldier piles typically consist of vertical steel H-beams and lagging typically consists of pressure-treated wood. As previously noted, our geotechnical evaluations focus on nine specific locations where wall repairs are being contemplated at this time. Our scope did not include evaluating the possibility of broader or deeper instabilities associated with old landslides, earthquake-induced

liquefaction, or other types of geologic hazards. Subject to this limitation, we conclude that a project involving the reconstruction of failed sections of retaining walls is generally feasible from a geotechnical engineering standpoint.

4.2 Wall Replacement Options

This report presents three design options for the reconstruction of failed sections of retaining walls. All three options involve the installation of new soldier piles and lagging; the primary difference between the options (designated as A, B and C) is the location of the new wall relative to the existing wall alignment.

OPTION A - In Front of Existing Wall Alignment – In Option A, a new soldier pile and lagging wall would be installed in front of the failed section of wall. The new wall would then be backfilled. An advantage of Option A is that it does not require the existing wall to be demolished; in this case, it is considered geotechnically acceptable to bury the existing wall sections in place. Option A may result in a lower wall relative to Options B and C. However, Option A may not be feasible in some locations if it is not acceptable for the new wall to be located closer to the perimeter road.

OPTION B - Along Existing Wall Alignment - In Option B, the existing wooden wall would be demolished and a new soldier pile and lagging wall would be installed along the same alignment. An advantage of Option B is that the new wall sections would appear more visually consistent with the neighboring sections of the existing wall. A disadvantage of Option B is that it would require that the existing wall be demolished before the new wall is built, which could cause or exacerbate caving upslope, require temporary shoring and/or require cutting a stable temporary slope behind the wall.

OPTION C - Behind Existing Wall Alignment - In Option C, a new soldier pile and lagging wall would be installed behind the failed section of wall. In Option C, lagging would be installed between the soldier beams using “top down” methods as the existing retaining wall is demolished. In Option C, drilling equipment would need to reach up from the road to drill pier holes on sloping ground. Option A would result in a taller wall relative to Options B and C.

We recognize that structural, geometric and/or aesthetic considerations may control in developing a preferred design. The recommendations presented in Section 5.0 are considered appropriate for the three wall replacement options described above.

4.3 Construction Considerations

The contractor is responsible for shoring, excavation safety, and the protection of adjacent improvements throughout all phases of construction. All temporary slopes should be excavated in accordance with the latest edition of the CAL-OSHA excavation and trench safety standards as a minimum.

The contractor’s drilling equipment will likely need to penetrate bedrock, which may include rock materials that are fresh, hard and/or strong. It is the contractor’s responsibility to mobilize drilling equipment that can achieve the required embedment depths while maintaining soldier pile alignment and verticality. The contractor should further anticipate that drilling for soldier piles may encounter aggregate, low-cohesion soils, squeezing ground, intensely fractured rock or other conditions that would require drill holes to be temporarily cased.

If soldier piles are installed behind the existing wall (Option C), the integrity of the existing wall must be maintained until it is demolished in a controlled manner that does not destabilize the ground upslope. In this case, it is the contractor’s responsibility to thoroughly evaluate increases in lateral wall pressures due to their drilling equipment and materials and provide any and all temporary restraints needed to maintain wall stability as they accomplish the work.

The contractor should anticipate that drilling for soldier piles may encounter groundwater within permeable zones or related to locally perched conditions. It is the contractor’s responsibility to control, handle and appropriately dispose of all excess fluids generated by their drilling operations.

6.0 RECOMMENDATIONS

6.1 Retaining Walls

6.1.1 Static Lateral Earth Pressures

The following equivalent fluid weights⁵ can be used for the design of cantilever soldier pile and lagging walls. It is appropriate to interpolate between the values given.

Active Lateral Earth Pressures

Backslope Inclination	Equivalent Fluid Weight	Increase over Level Backfill
Level	45 pcf	1.00
3:1	50 pcf	1.11
2:1	60 pcf	1.33
1.5:1	90 pcf	2.00

These static lateral earth pressures are considered appropriate for cantilever-type retaining walls that are drained to prevent the buildup of hydrostatic pressures. The lateral earth pressure distributions are based on “active” earth pressures, which are appropriate for walls that are free to rotate at their tops (i.e. unrestrained by geometry, structural elements or tiebacks).

6.1.2 Seismic Increment

The following uniform lateral pressures can be used to evaluate increases in wall pressure caused by seismic shaking (where H is the wall height in feet).

Seismic Increment

Backslope Inclination	Uniform Increase in Lateral Pressure	Increase over Level Backfill
Level	12H psf	1.00
3:1	14H psf	1.17
2:1	16H psf	1.33
1.5:1	24H psf	2.00

When considered, the seismic increment should be added to the active lateral earth pressure distribution.

6.1.3 Vehicle Surcharges

Increases in lateral pressures due to vehicle surcharges should be considered in the case of Wall #6. A uniform lateral pressure of 100 psf can be used to evaluate increases in wall pressure due to vehicles. Vehicle surcharge loading and seismic loading (if used) can be considered independently.

6.1.4 Lateral Resistance

Lateral loads can be resisted by passive pressure acting on the embedded portions of soldier piles. We recommend that passive resistance be ignored within the upper foot of the ground surface unless the ground surface directly adjacent is covered by a pavement section or concrete slab-on-grade. Subject to this limitation, passive resistance can be evaluated using an equivalent fluid pressure of 350 pcf, which includes a factor of safety of at least 1.5 and can be applied over two (horizontal) concrete pier diameters.

⁵ Equivalent fluid weights are expressed in terms of pounds per cubic foot (pcf); which corresponds to a triangular earth pressure distribution expressed in terms of pounds per square foot (psf) per foot of depth.

6.1.5 Wall Drainage

All wall segments should be fully drained to prevent the buildup of hydrostatic pressure. This section provides recommendations for a vertical drainage layer on the backside of the wall coupled with gaps between lagging to allow water to drain through the wall face. We recommend that ¼-inch thick spacers be used to create uniform gaps between wall lagging elements.

The vertical drainage layer should consist of approved aggregate with a horizontal thickness of at least one foot. Aggregate should be free-draining and consist of clean ¾-inch gravel or crushed rock. The rock should be isolated from the surrounding soil by a geotextile filter fabric (Mirafi 140N or 140NL, or equivalent). The filter fabric should not be installed on the backside of wall lagging. The top of the vertical drainage layer should be capped by a 1-foot-thick layer of compacted low permeability clayey soil to inhibit surface water intrusion.

6.1.6 Soldier Pile Installation

Holes for soldier piles should be drilled straight and plumb (within 1 percent of vertical) and should be cleaned of loose soil and rock fragments. We judge that the holes can likely be drilled using heavy auger drilling equipment; however, zones of relatively hard rock could be encountered. The contractor should be prepared to utilize suitable hard rock drilling techniques, if necessary. If water accumulates in the holes, it should be removed by pumping or bailing prior to concrete placement unless tremie methods are used.

Concrete placement should start as soon as possible after the drilling and cleanout is complete. In all cases, holes for soldier piles should be concreted on the day they are drilled. If water is present in the hole, the tremie pipe should be constantly maintained at least 5 feet below the surface of the concrete during casting of the soldier pile. As the concrete is placed, any casing used to stabilize the hole should be withdrawn and the casing should be maintained not more than 5 feet or less than 1 foot below the surface of the concrete as it is withdrawn.

Soldier piles should be installed by a qualified drilling contractor. A3GEO should observe during drilling to confirm that subsurface conditions are as anticipated and observe the various geotechnical aspects of construction to check conformance with the intent of our recommendations.

6.2 Sitework

6.2.1 Site Preparation

The nature and extent of the work should be clearly defined prior to contractor mobilization. Prior to the start of work, any active subsurface utilities in and/or immediately surrounding the planned wall repair locations should be identified, marked, and protected or relocated. Within the limits of work, surface vegetation and organic-laden soils should be stripped; stripped materials are generally not suitable for re-use as engineered fill and should be removed and disposed of offsite.

Existing portions of failed wooden retaining walls should be demolished, as indicated on the project plans. The contractor is responsible for the protection of any adjacent features designated "to remain" throughout the period of construction. The design, installation and maintenance of temporary shoring and the stability of temporary excavation slopes are considered responsibilities of the contractor. The contractor is also responsible for the job site safety and the appropriate handling and disposal of ACZA-treated wood; we recommend that the District's environmental consultant provide any necessary consultation, oversight and/or supervision relating to chemical constituents present in the onsite materials.

6.2.2 Earthwork

Excavation should proceed in accordance with the project plans and approved contractor submittals. We recommend that A3GEO observe during excavation activities to check that site conditions are as anticipated and to provide any supplemental geotechnical recommendations deemed necessary.

All proposed fill material should be approved by A3GEO prior to its use and offsite material should be evaluated by A3GEO prior to its importation to the site. General fill material should have an organic content of less than 3 percent by volume and should not contain rocks or lumps larger than 6 inches in greatest dimension. Onsite materials that cannot be processed to meet these requirements are not suitable for re-use as engineered fill and should be appropriately disposed of by the contractor off campus property.

Fill should be placed in a manner that minimizes lenses, pockets and/or layers of materials differing substantially in texture or gradation from the surrounding fill materials. Fill soils should be spread in uniform horizontal layers not exceeding 8 inches in loose thickness and should be compacted by mechanical means in a uniform and systematic manner. Onsite fill should be compacted to at least 90 percent relative compaction, per ASTM D-1557. Compaction on slopes should be obtained by "overbuilding" followed by trimming the completed slope back to design grades. Trimmed slopes and adjacent areas disturbed by construction activities should be planted to resist erosion.

Aggregate comprising the vertical drainage layer (Section 6.1.5) behind retaining walls can be used in lieu of fill provided that it is covered with a minimum 1-foot-thick cap of low permeability soil to inhibit surface water intrusion. Where used as backfill, clean ¾-inch aggregate should be compacted using vibratory means under A3GEO's observation; a "walk-behind" compactor or backhoe-mounted "headshaker" can be used for this purpose. The aggregate should be isolated from the surrounding soil by a geotextile filter fabric (Mirafi 140N or 140NL, or equivalent).

6.3 Future Geotechnical Services

We should review the project plans and specifications as they are being developed in order to check conformance with the intent of our geotechnical recommendations and to provide timely input, in the event that revisions are needed. We should perform a general review of the geotechnical aspects of the final plans and specifications, the results of which we should document in a formal plan review letter.

As Geotechnical Engineer of Record, it is essential that A3GEO provide geotechnical services during construction to check whether geotechnical conditions are as anticipated, provide supplemental recommendations where necessary, and document that the geotechnical aspects of the work substantially conform to the approved Contract Documents and the intent of our geotechnical recommendations. Critical aspects of construction that A3GEO should observe include excavation, drilling/installation of soldier piles, drainage installation and fill placement/compaction.

7.0 LIMITATIONS AND CLOSURE

This report has been prepared for the exclusive use of the College of Marin and their consultants for specific application to the proposed perimeter road wall replacement project(s), as described herein. The opinions presented in this report were developed in accordance with generally accepted soil and foundation engineering practices; no other warranty, expressed or implied, is made. In the event that any changes in the nature or design of the project are planned, the conclusions and recommendations contained in this report should not be considered valid unless the changes are reviewed and conclusions of this report modified or verified in writing.

The findings of this report are valid as of the present date. However, the passing of time will likely change the conditions of the existing property due to natural processes or the works of man. In addition, due to legislation or the broadening of knowledge, changes in applicable or appropriate standards may occur. Accordingly, the findings of this report may be invalidated, wholly or partly, by changes beyond our control. Therefore, this report should not be relied upon after a period of three years without being reviewed by this office.

We trust that this provides the geotechnical information needed at this time. Should you have questions or comments regarding the contents of this report, please do not hesitate to call.

Sincerely,



Dona Mann, P.E., G.E.,
Principal Engineer
Cell: (415) 425-0247



Wayne Magnusen, P.E., G.E.
Principal Engineer
Cell: (510) 325-5724



Attachments: Plates 1 through 6
Figures 1 through 10
Appendix A - Logs of Borings and Seismic Refraction Survey Data (by others)

SELECTED REFERENCES

ASCE/SEI 7-10, 2010, "Minimum Design Loads for Buildings and Other Structures," American Society of Civil Engineers, Reston, Virginia.

California Building Standards Commission, 2013, "California Building Code," Sacramento, California.

Cooper-Clark & Associates (Cooper-Clark), 1973, "Site and Foundation Investigation, Initial Facilities, Indian Valley Colleges, Novato California for the Marin Community College District," consulting report dated March 14, 1973.

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Graymer, R.W., Moring, B.C., Saucedo, G.J., Wentworth, C.M., Brabb, E.E., and Knudsen, K.L., 2006, "Geologic Map of the San Francisco Bay Region," U.S. Geological Survey Miscellaneous Field Studies.

Jennings, Charles W., and Bryant, William A., 2010, "Fault Activity Map of California," California Geological Survey, Geologic Data Map No. 6.

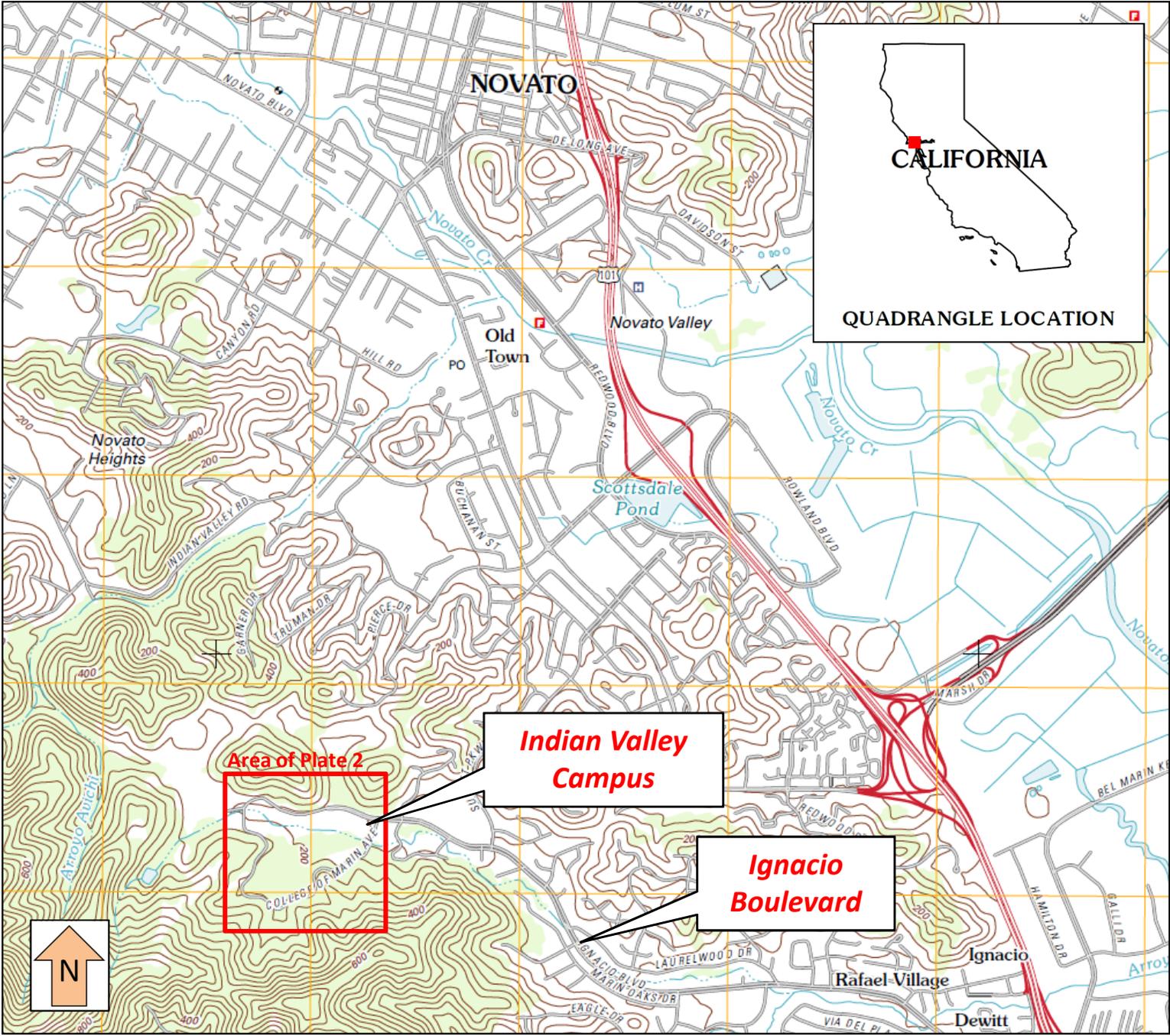
Neptune & Thomas Associates, 1973, "Indian Valley College, Novato, Marin Community College District," 15 civil/structural plan sheets dated 5-10-73

Working Group on California Earthquake Probabilities (WGCEP), 2008, "The Uniform California Earthquake Rupture Forecast, Version 2 (UCERF 2): for 2007-2036," U.S. Geological Survey Open File Report 2007-1437; CGS Special Report 203; and SCEC Contribution #1138.

Plates

Retaining Wall Repairs
College of Marin
Indian Valley Campus

SOURCE: Novato Quadrangle, 7.5 Minute Series (USGS 2012)

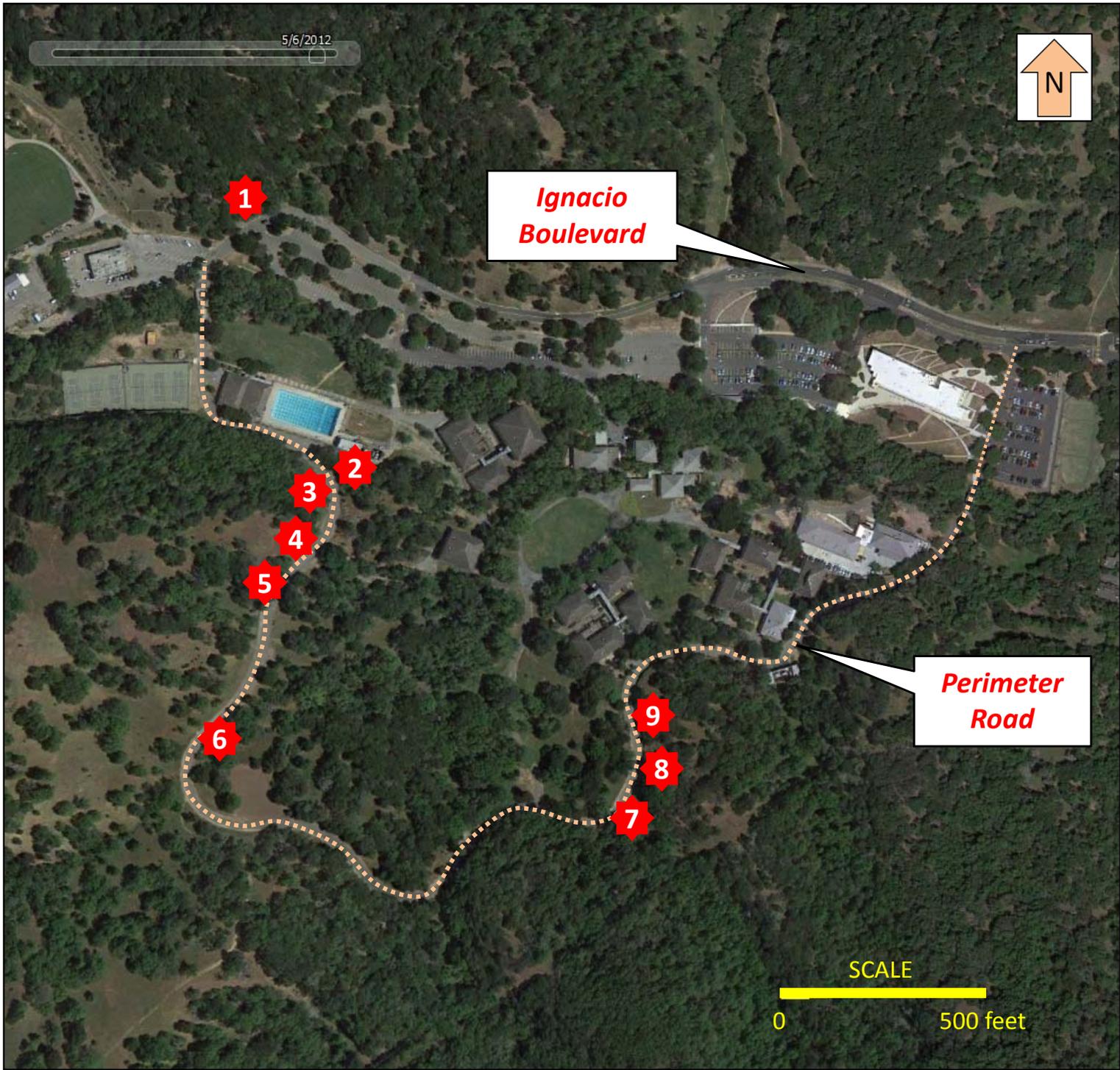


CONTOUR INTERVAL 40 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

Retaining Wall Repairs
College of Marin
Indian Valley Campus

Plate 1
Vicinity Map

SOURCE: Google Earth (Imagery Date 5/6/2012)



EXPLANATION



Failed Retaining Wall
Approximate Location and ID Number



Retaining Wall Repairs
College of Marin
Indian Valley Campus

Plate 3
Example Wall Failures

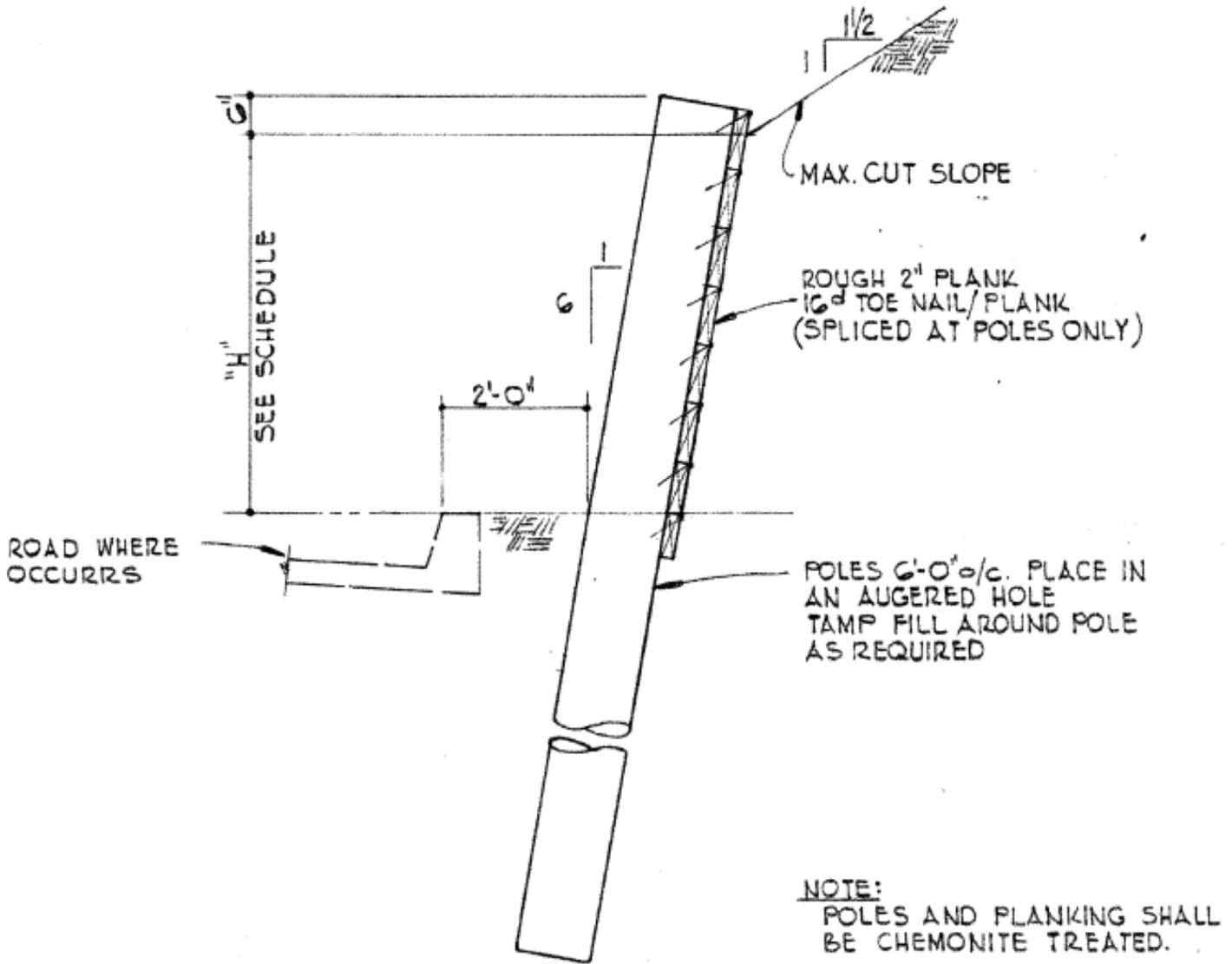
SOURCE: Graymer et al 2006



EXPLANATION



Failed Retaining Wall
Approximate Location and ID Number



SCHEDULE		
'H'	POLE BUTT. DIAM.	LENGTH OF POLE
UP TO 4'-0"	8" ϕ	11'-0"
4'-6" TO 6'-0"	12" ϕ	15'-6"
6'-6" TO 8'-0"	14" ϕ	19'-6"

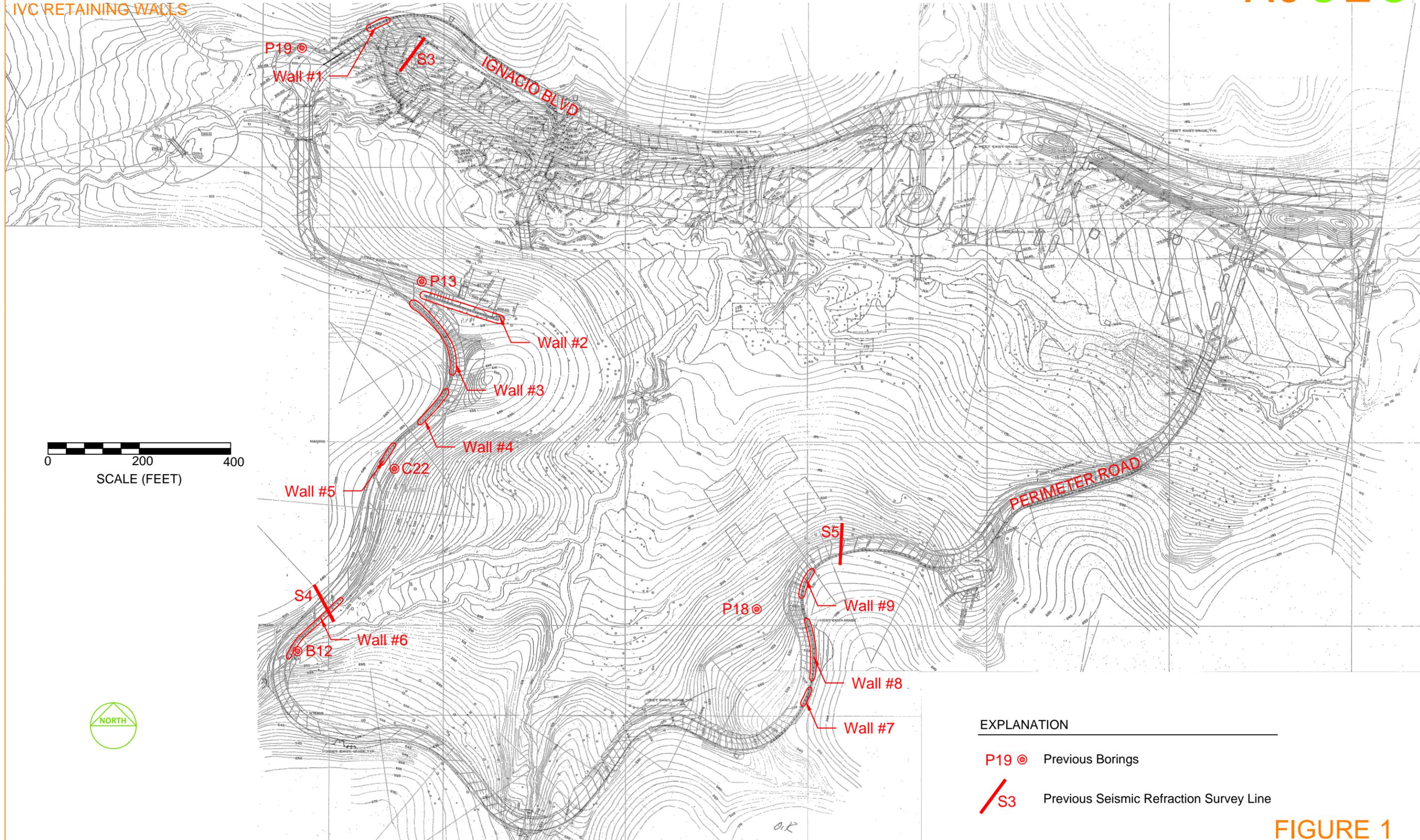
Photographs taken on June 5, 2015



Figures

Retaining Wall Repairs
College of Marin
Indian Valley Campus

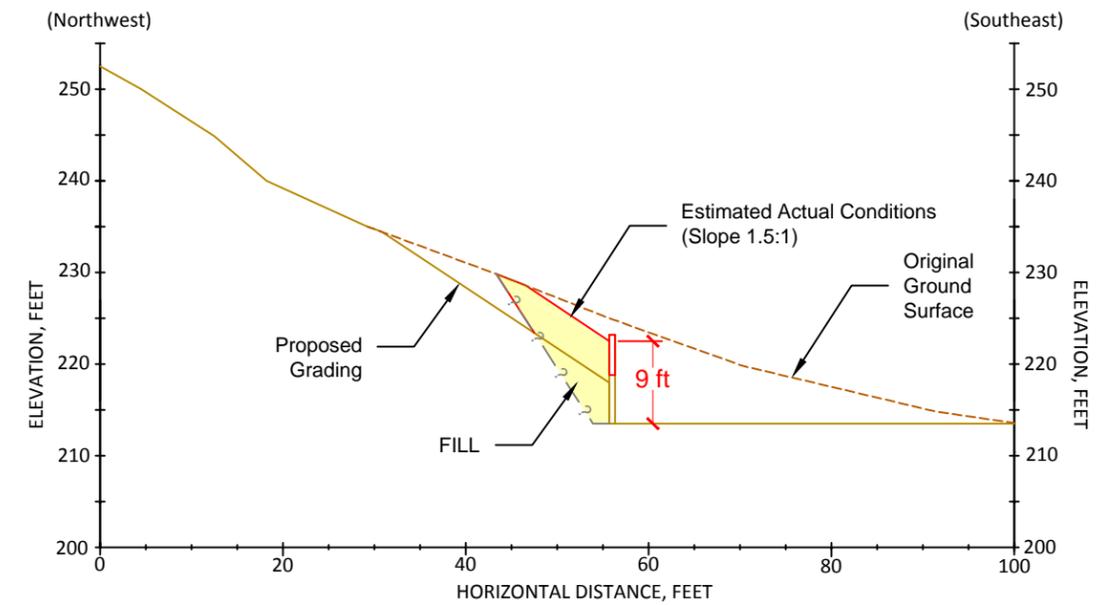
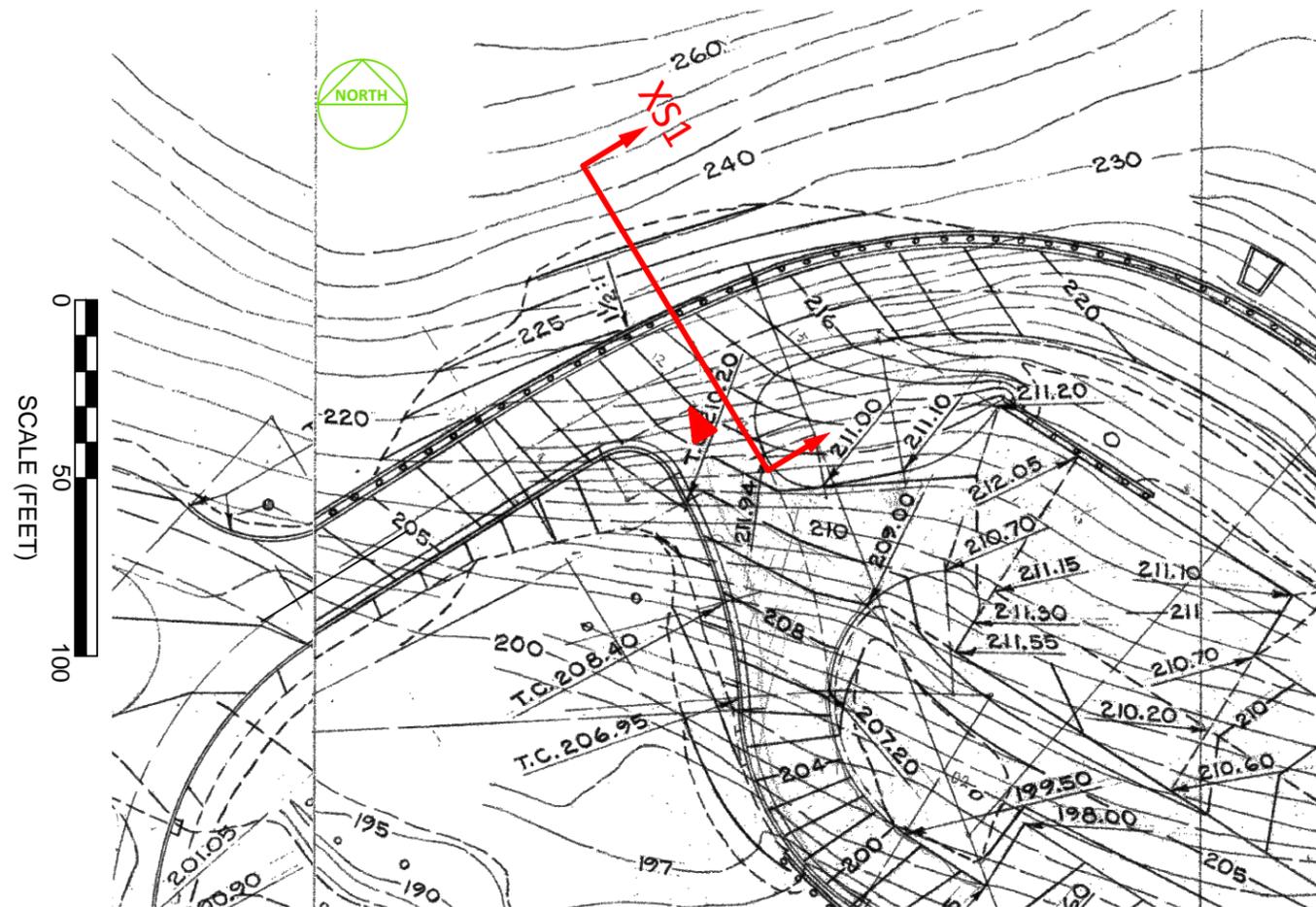
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EXPLANATION	
	Previous Borings
	Previous Seismic Refraction Survey Line

NOTES:
 Base Map: Partial Grading Plan by Neptune & Thomas Associates dated May 10, 1973

FIGURE 1
Site Plan



Cross Section at Wall #1

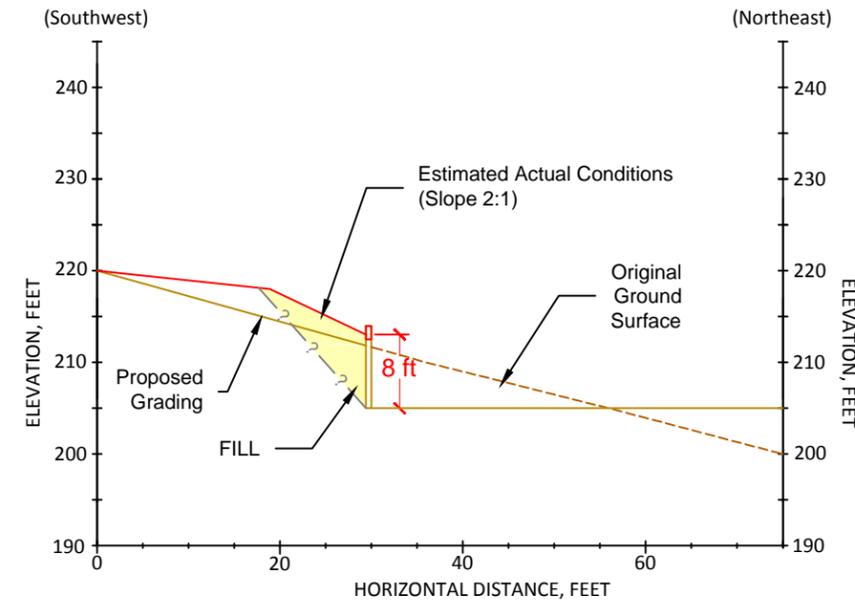
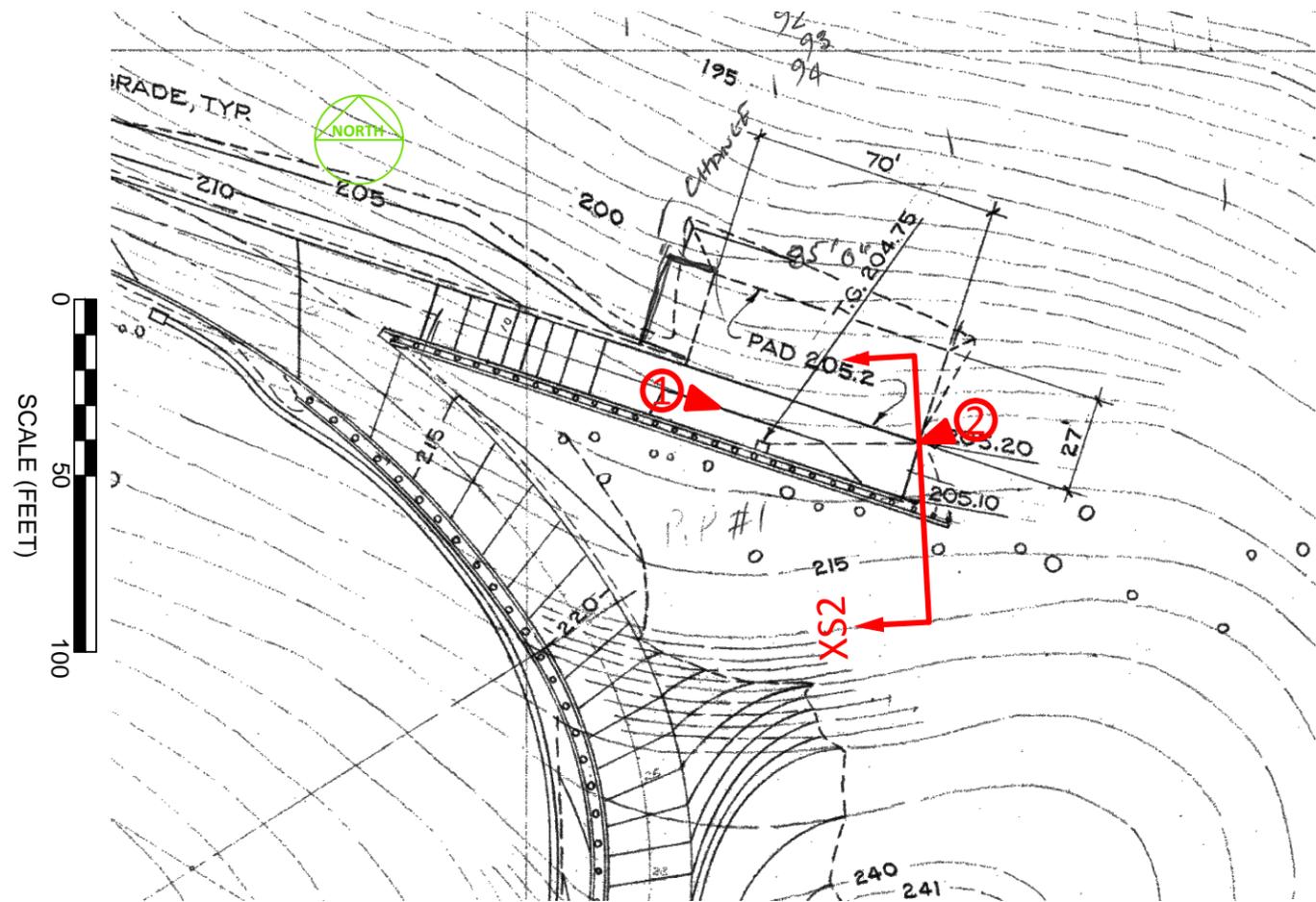
▶ Photo Vantage Point and Direction



Photo Taken Looking NW

FIGURE 2
WALL #1 EXISTING CONDITIONS

NOTES:
 Base Map: Partial Grading Plan by Neptune & Thomas Associates dated May 10, 1973



Cross Section at Wall #2

▶ Photo Vantage Point and Direction



Photo #1, Taken Looking NW



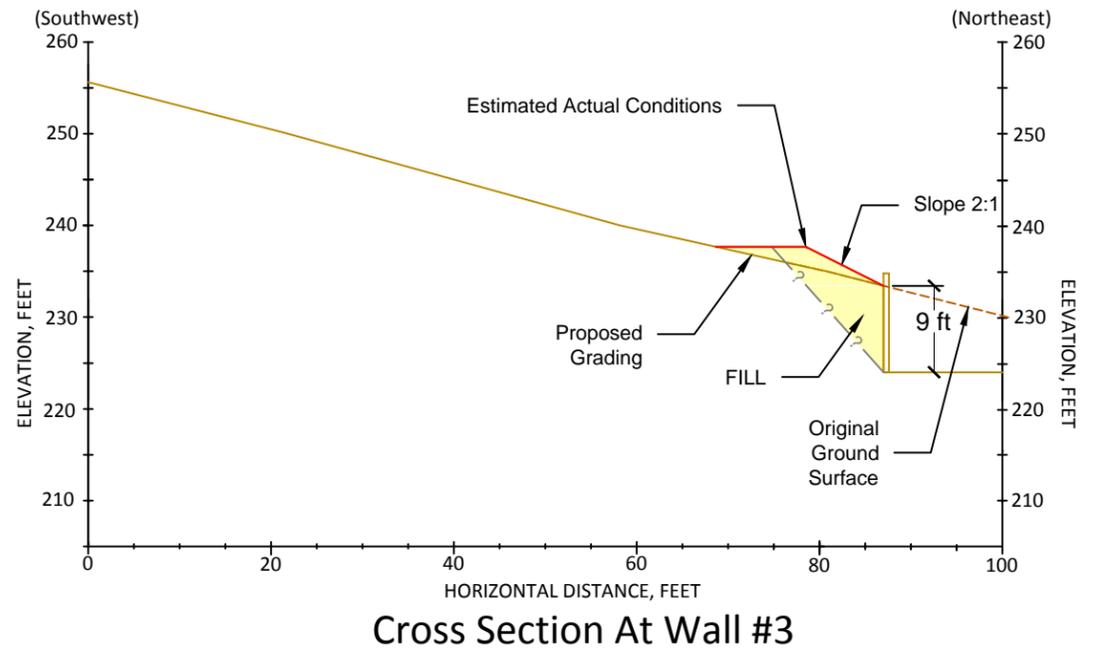
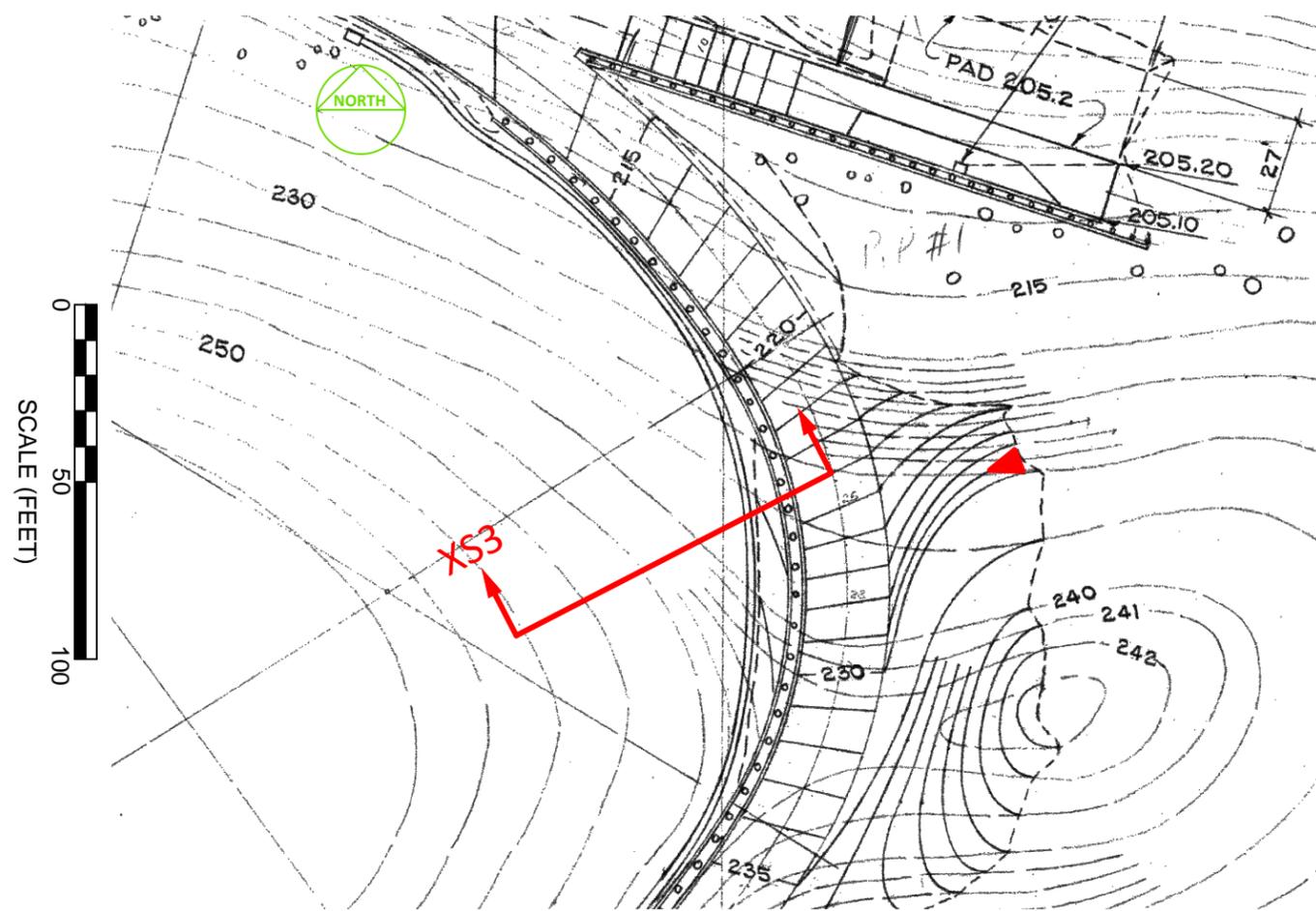
Photo #2, Taken Looking SE

FIGURE 3

WALL #2 EXISTING CONDITIONS

NOTES:
 Base Map: Partial Grading Plan by Neptune & Thomas Associates dated May 10, 1973

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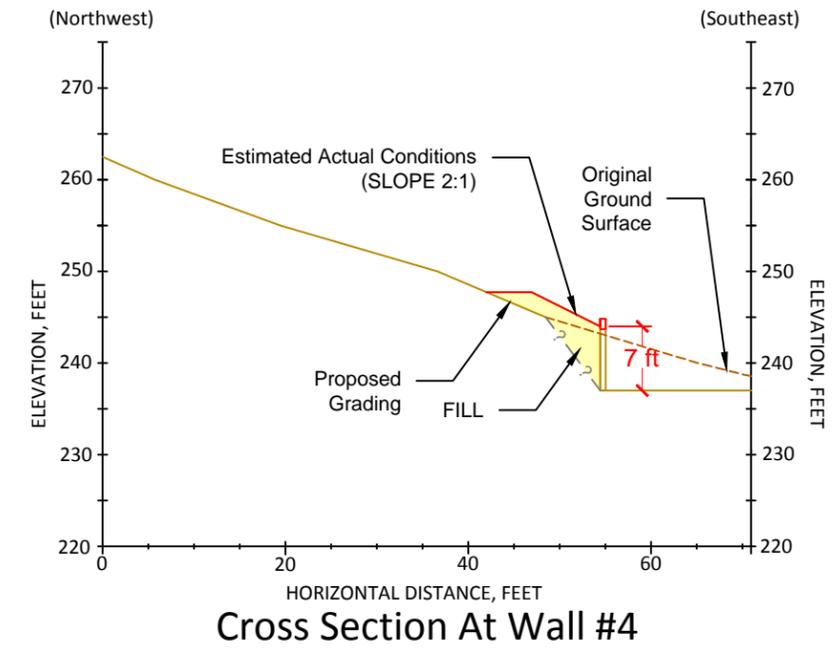
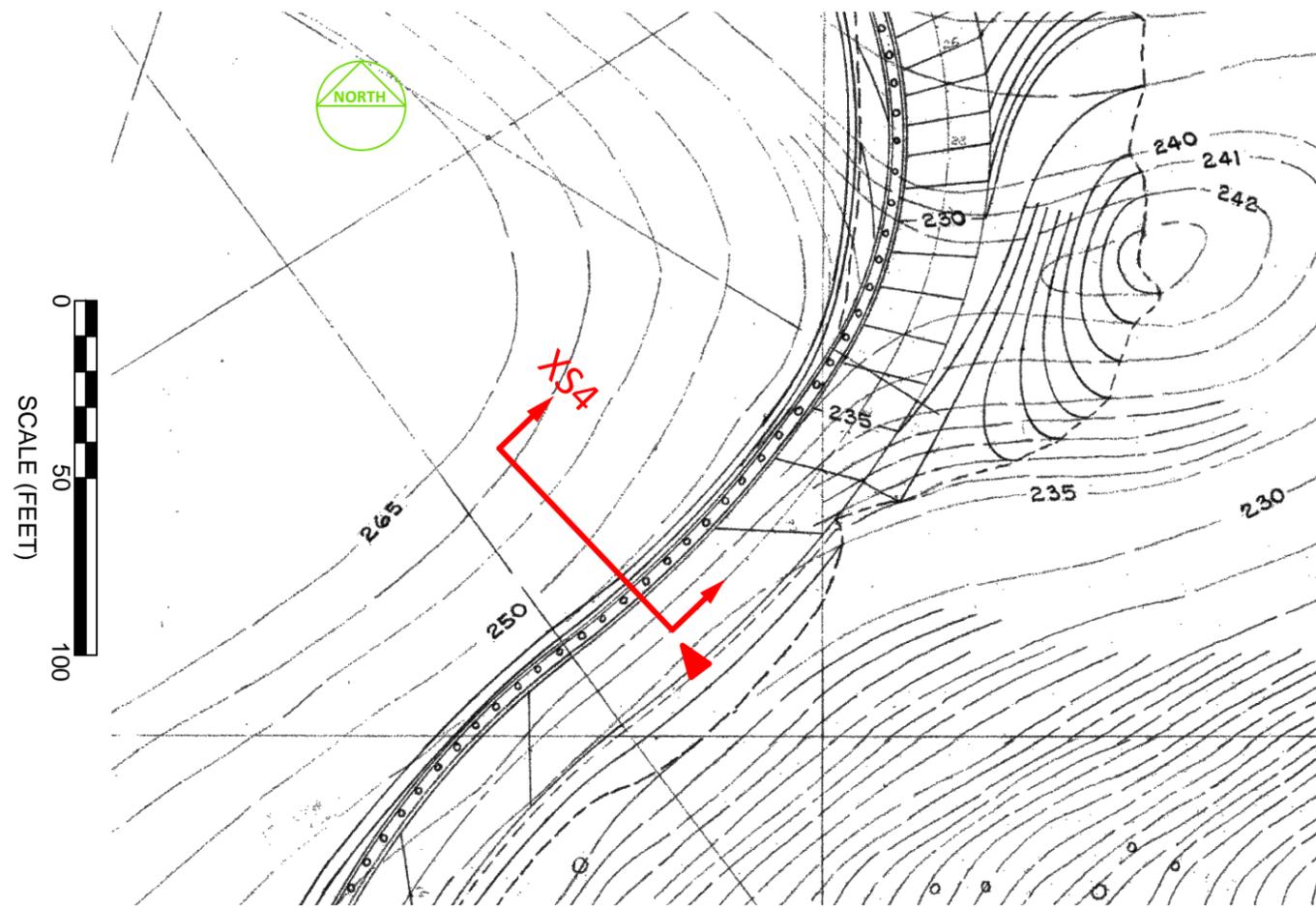
▶ Photo Vantage Point and Direction



Photo Taken Looking NW

FIGURE 4
WALL #3 EXISTING CONDITIONS

NOTES:
 Base Map: Partial Grading Plan by Neptune & Thomas Associates dated May 10, 1973



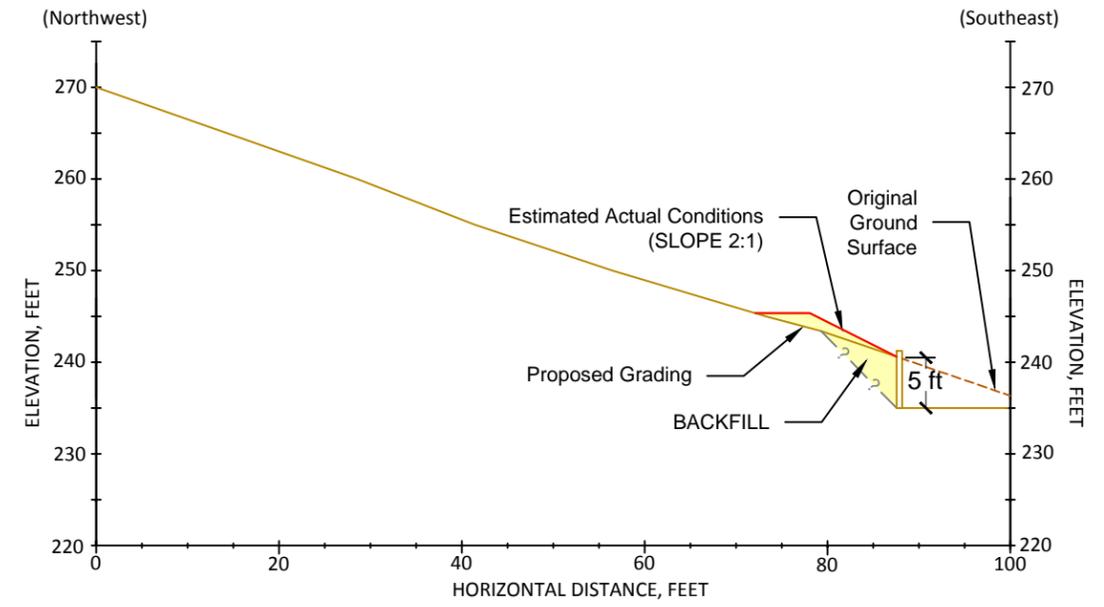
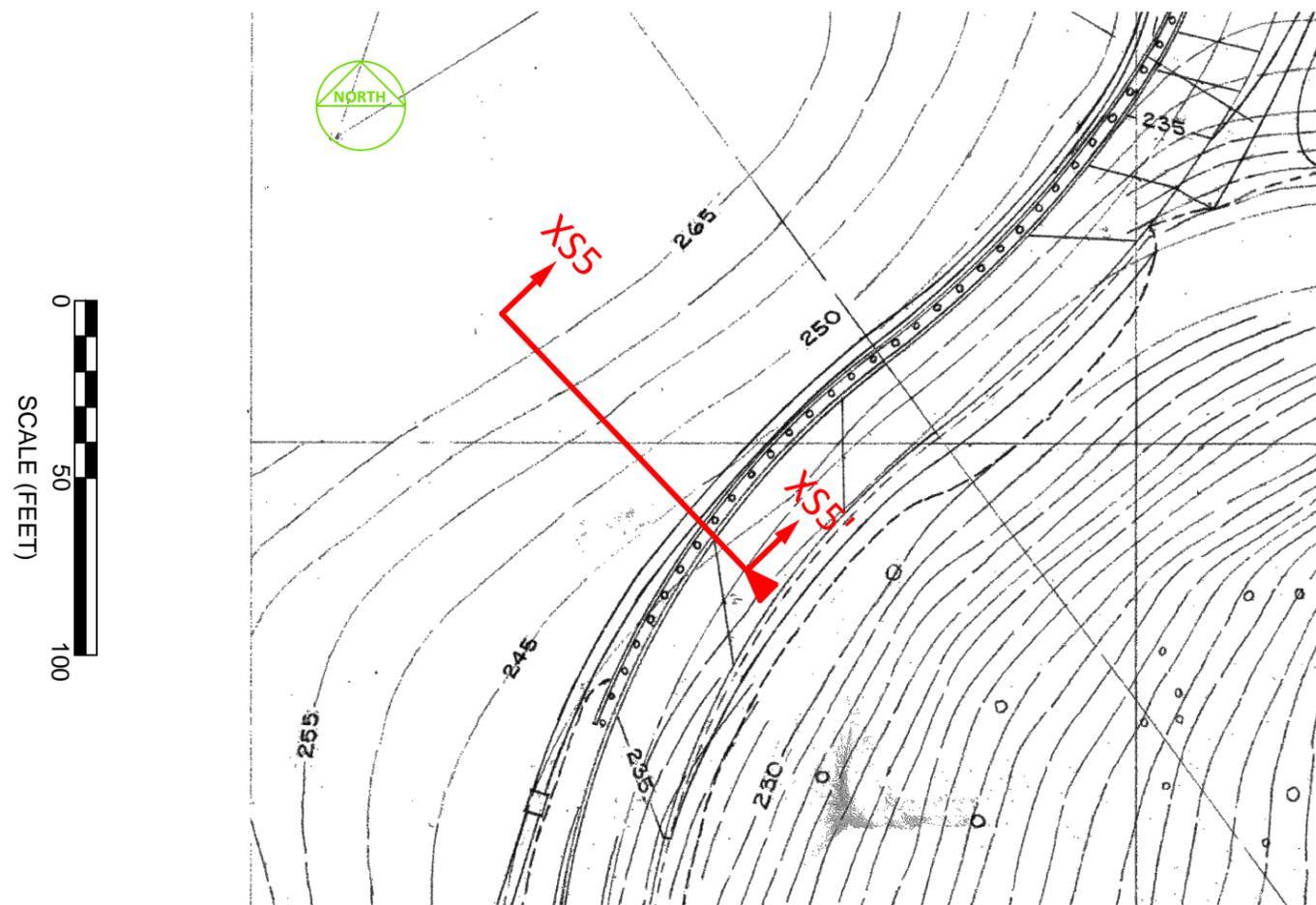
▶ Photo Vantage Point and Direction



Photo Taken Looking NW

FIGURE 5
WALL #4 EXISTING CONDITIONS

NOTES:
 Base Map: Partial Grading Plan by Neptune & Thomas Associates dated May 10, 1973



Cross Section At Wall #5

▶ Photo Vantage Point and Direction

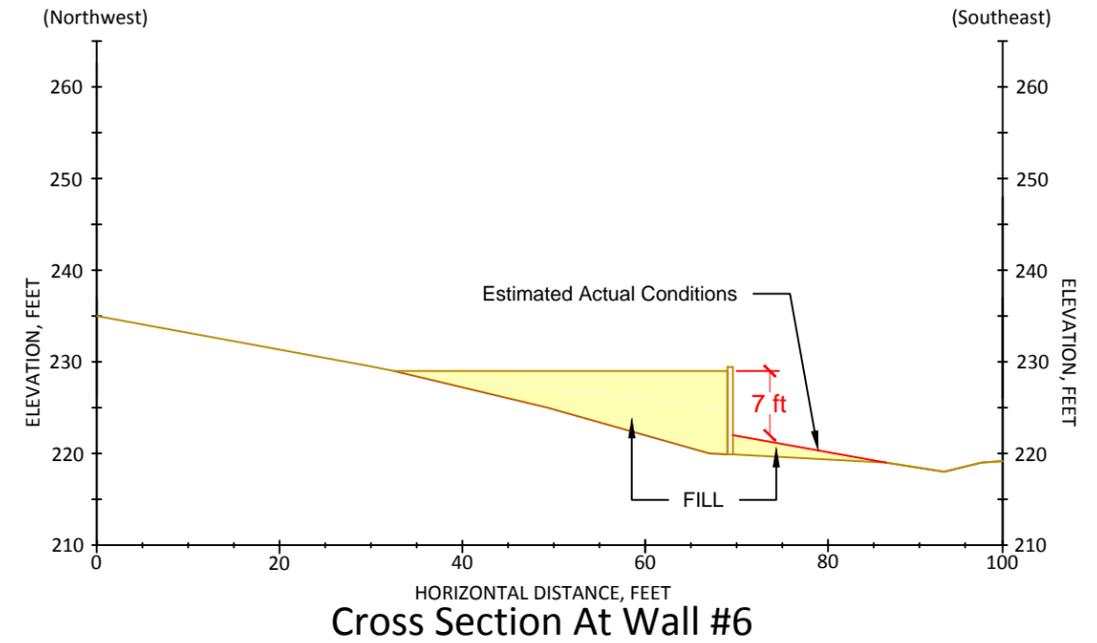
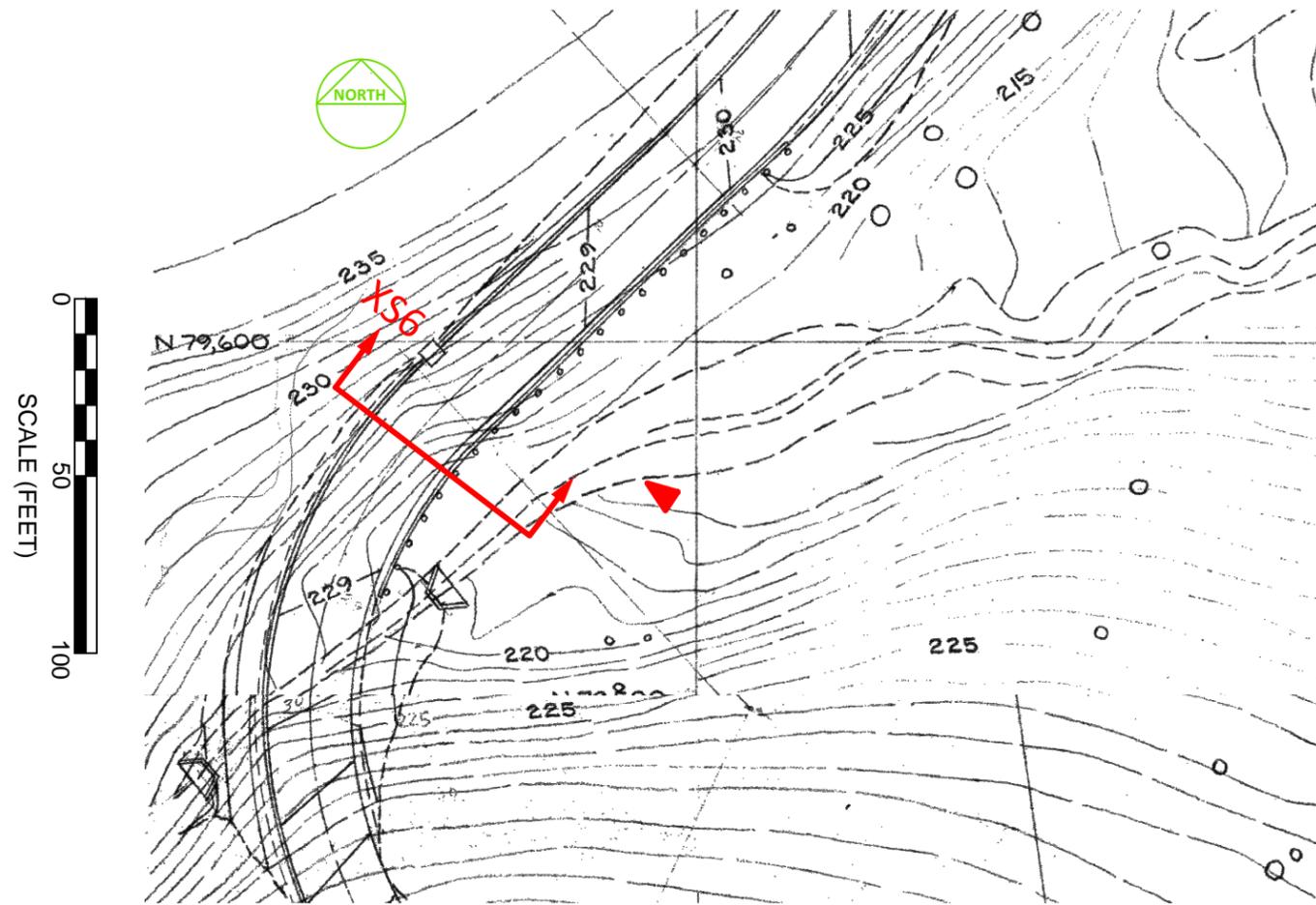


Photo Taken Looking NW

FIGURE 6

WALL #5 EXISTING CONDITIONS

NOTES:
 Base Map: Partial Grading Plan by Neptune & Thomas Associates dated May 10, 1973



▶ Photo Vantage Point and Direction

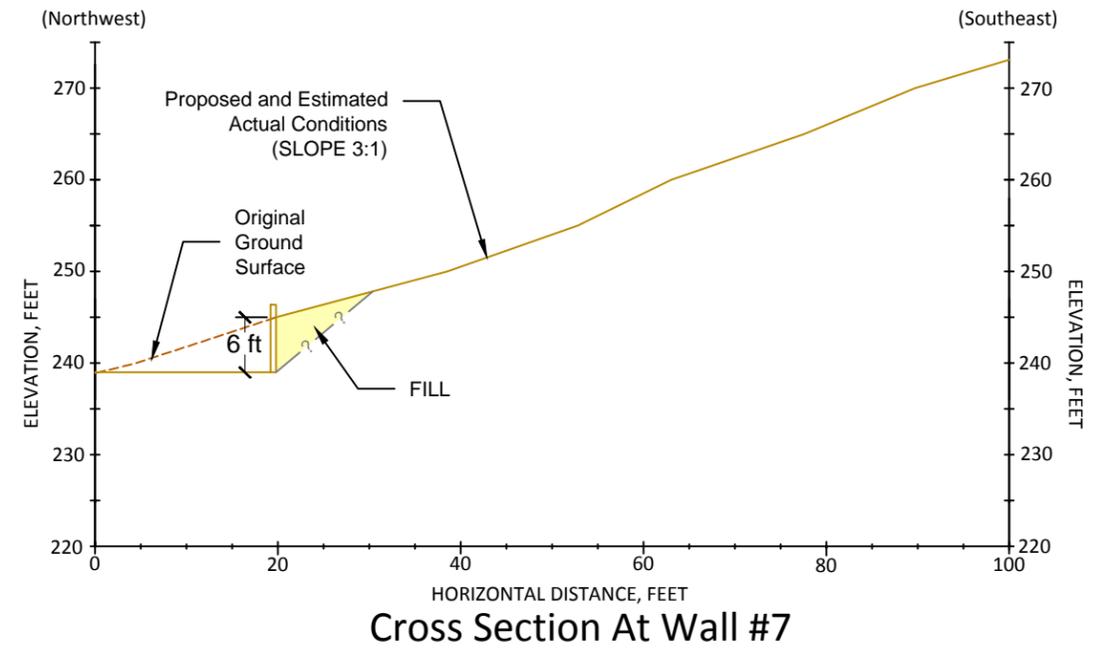
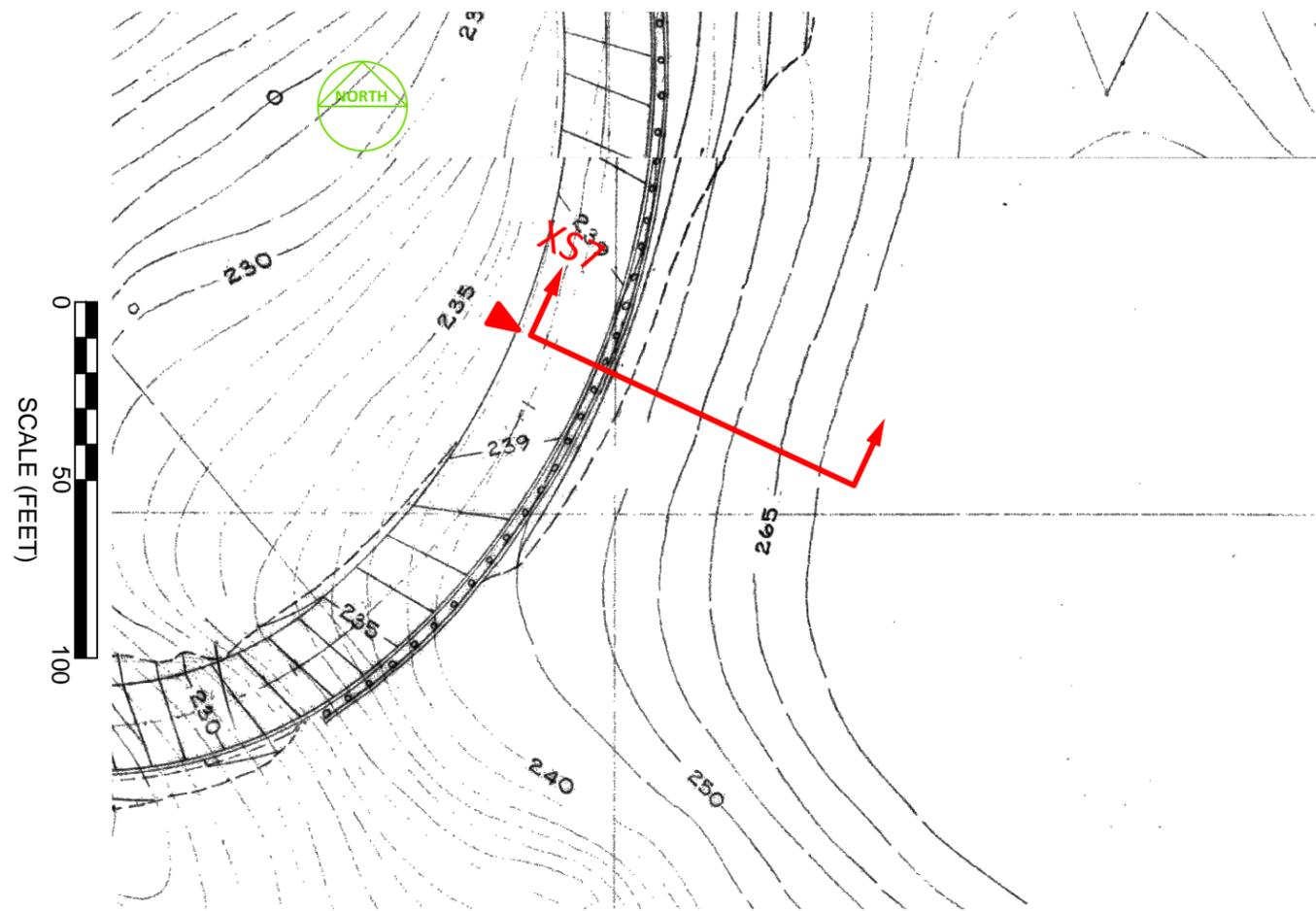


Photo Taken Looking NW

FIGURE 7

WALL #6 EXISTING CONDITIONS

NOTES:
 Base Map: Partial Grading Plan by Neptune & Thomas Associates dated May 10, 1973



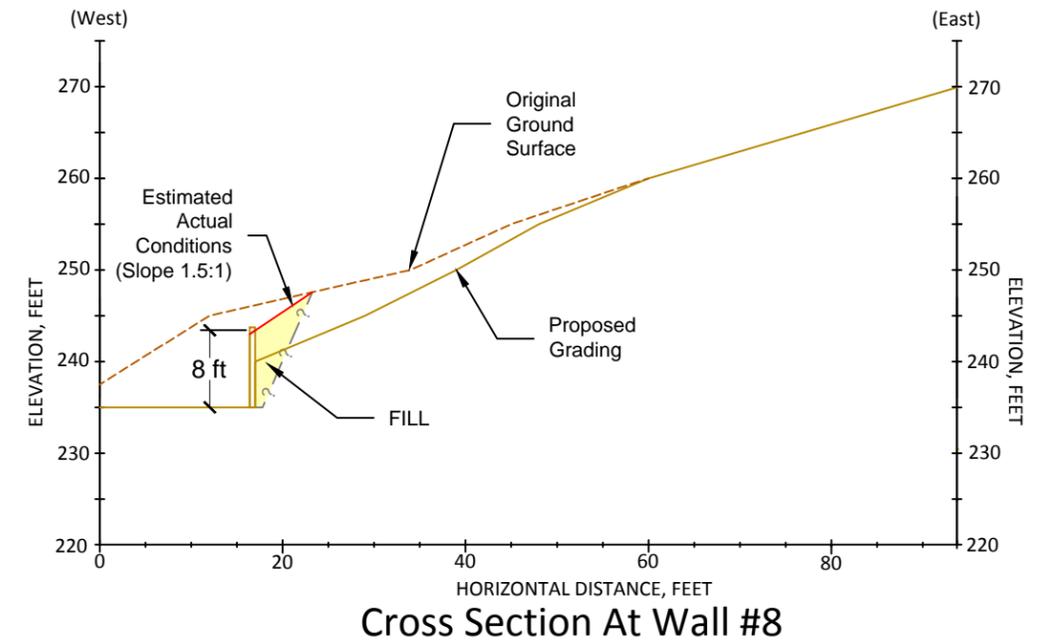
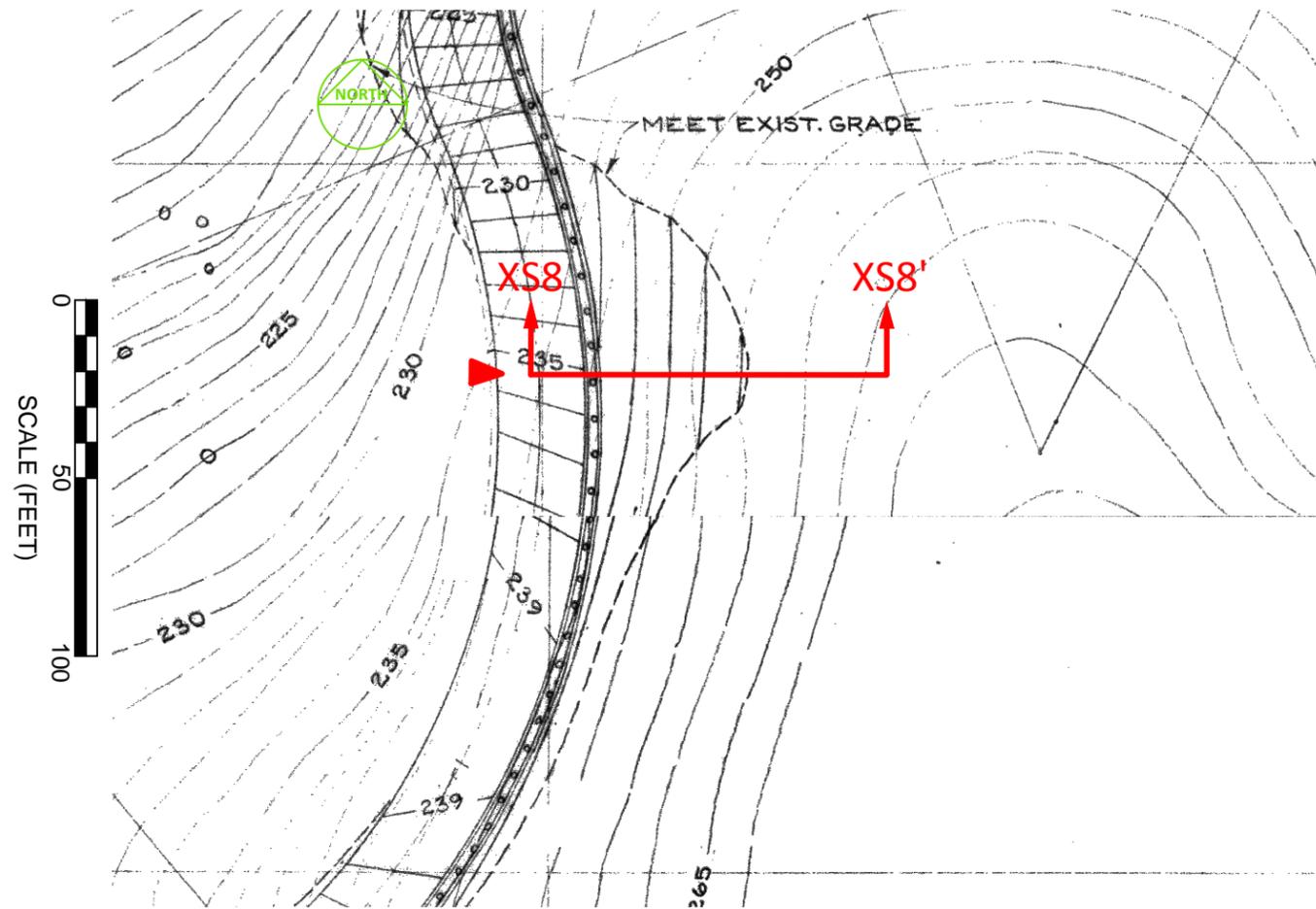
▶ Photo Vantage Point and Direction



Photo Taken Looking NW

FIGURE 8
WALL #7 EXISTING CONDITIONS

NOTES:
 Base Map: Partial Grading Plan by Neptune & Thomas Associates dated May 10, 1973



▶ Photo Vantage Point and Direction

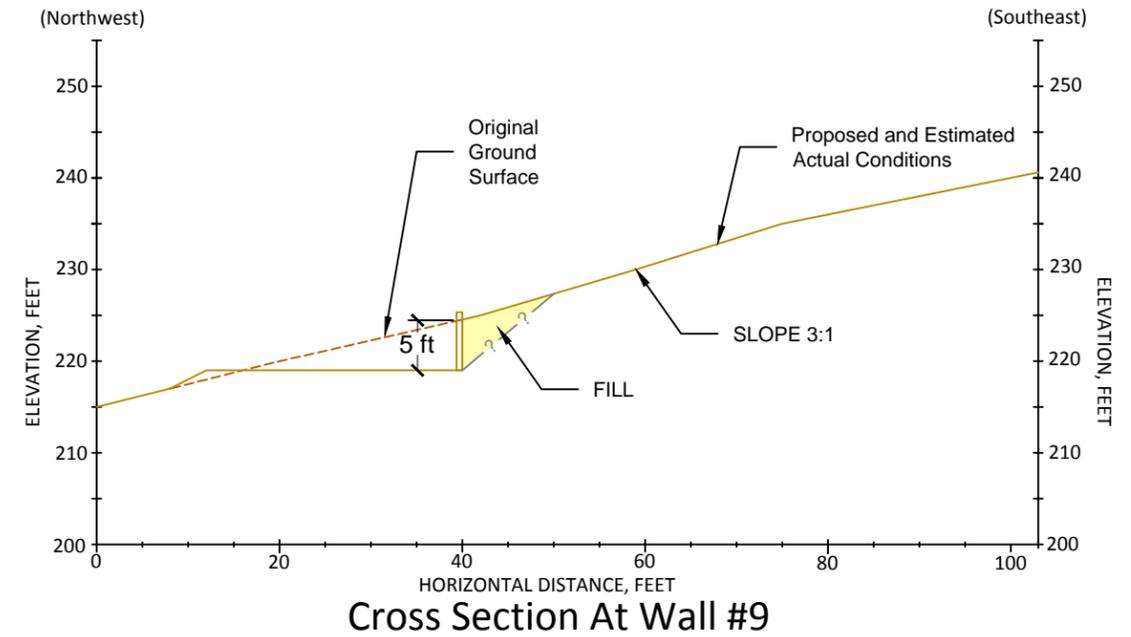
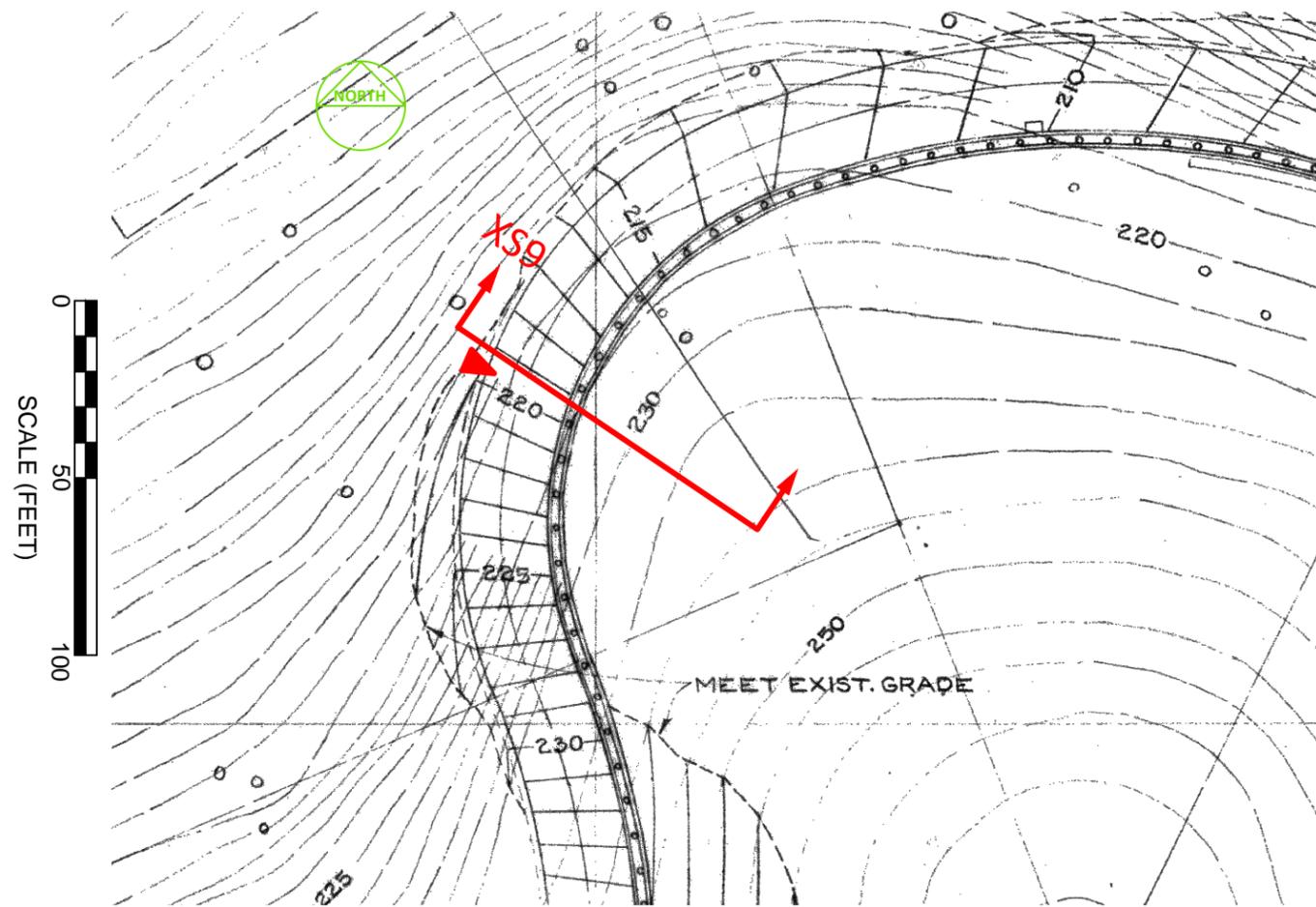


Photo Taken Looking NW

FIGURE 9

WALL #8 EXISTING CONDITIONS

NOTES:
 Base Map: Partial Grading Plan by Neptune & Thomas Associates dated May 10, 1973



▶ Photo Vantage Point and Direction



Photo Taken Looking NW

FIGURE 10

WALL #9 EXISTING CONDITIONS

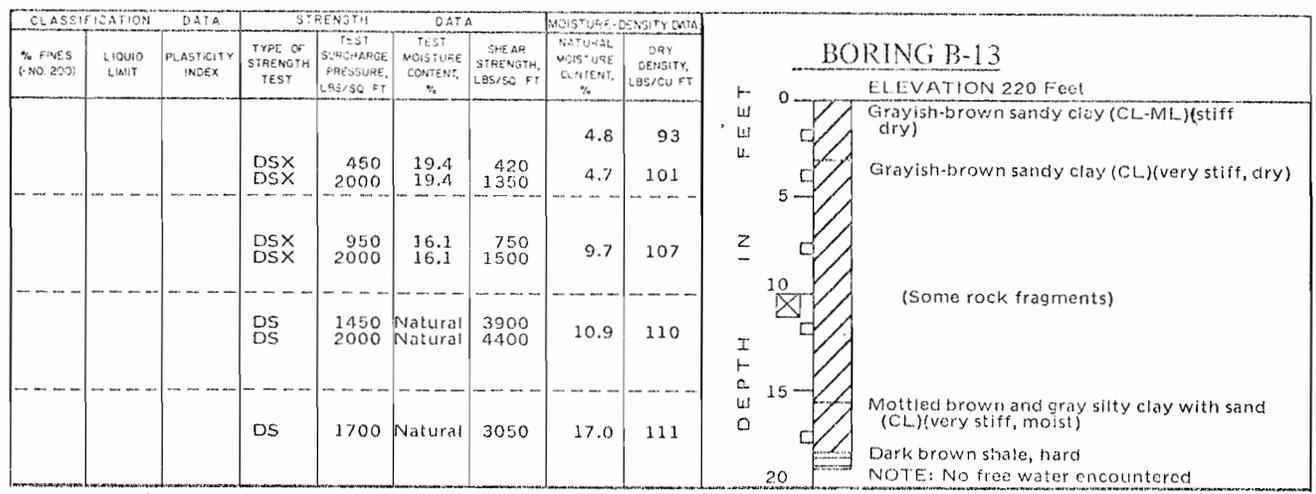
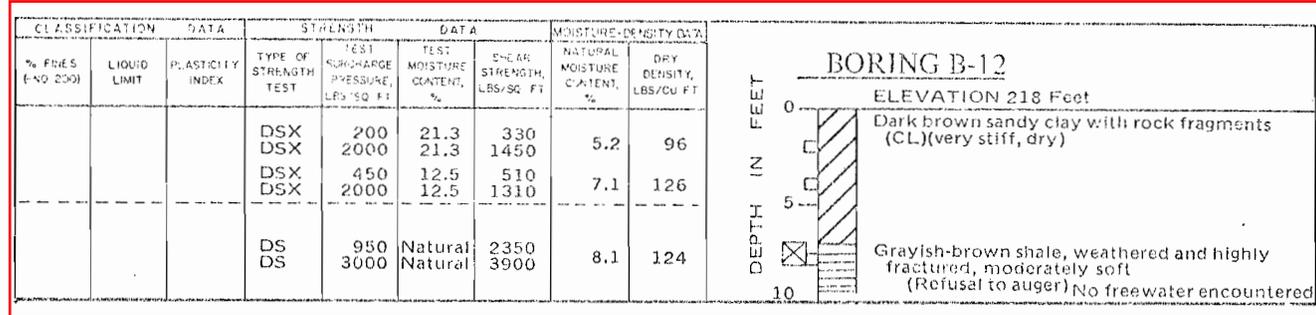
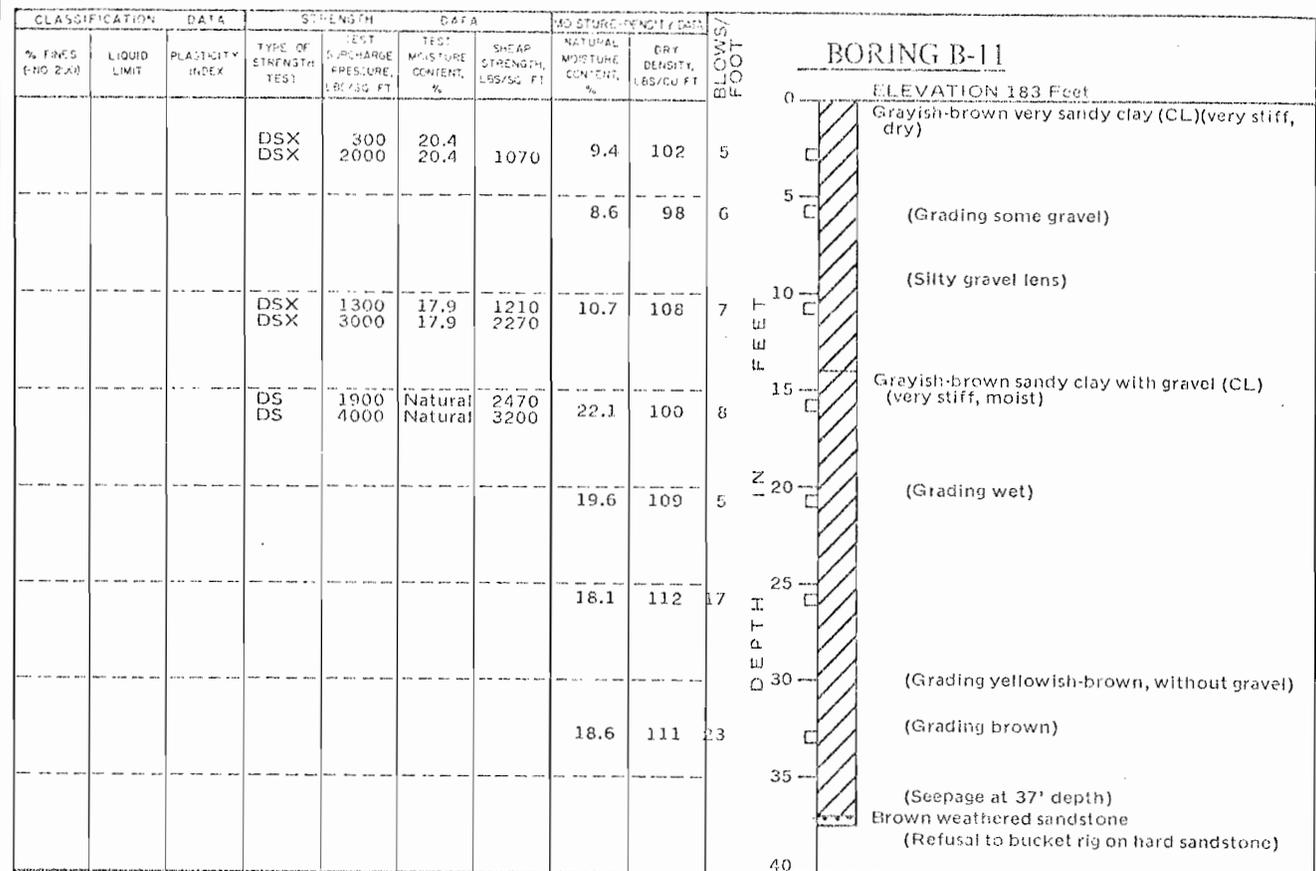
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APPENDIX A

Logs of Borings and Seismic Refraction Survey Data
(Cooper-Clark & Associates, 1973)

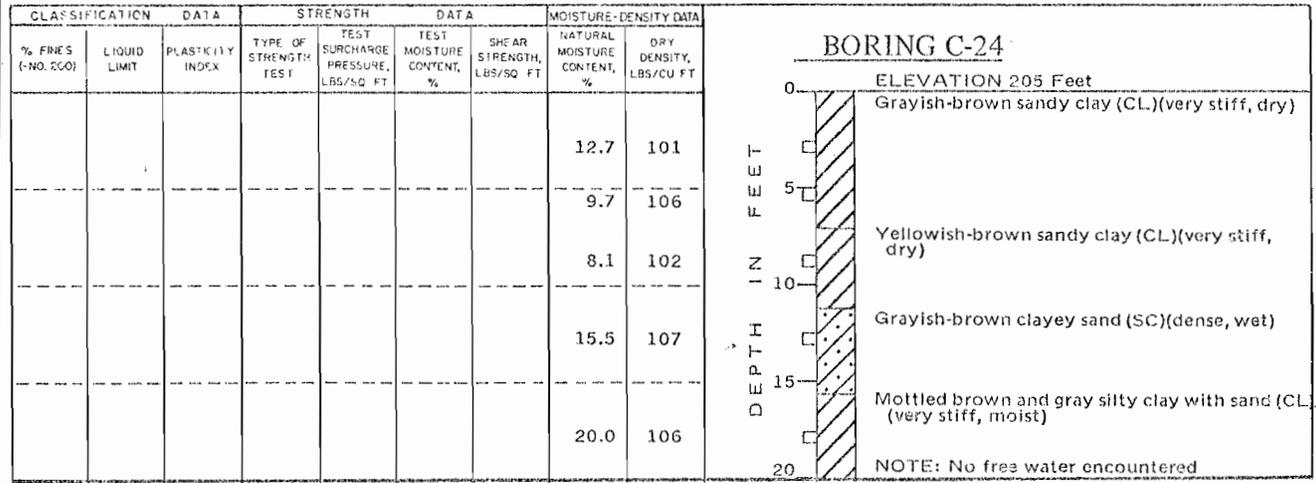
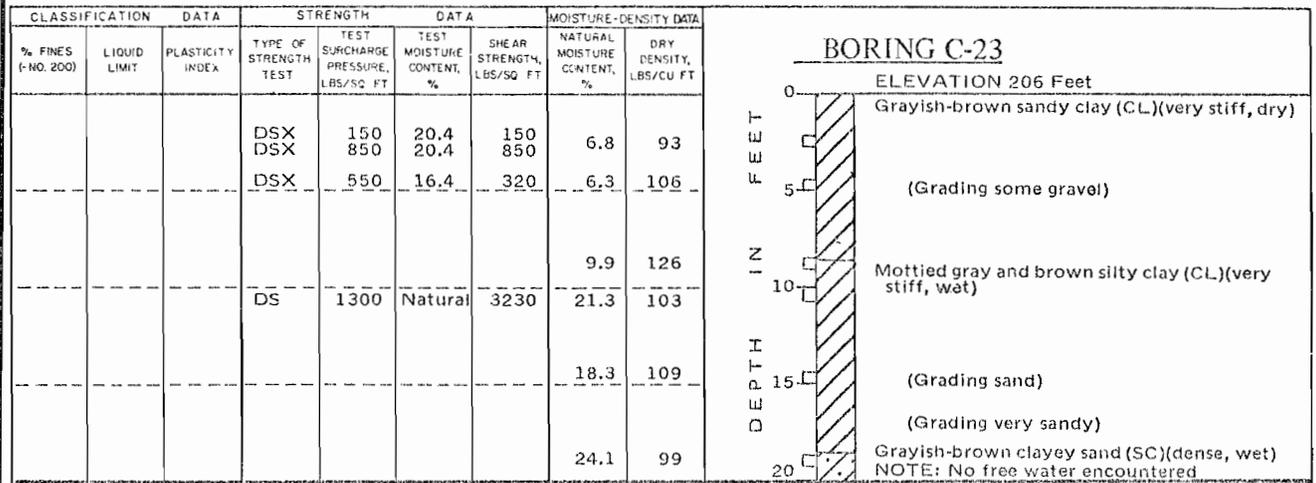
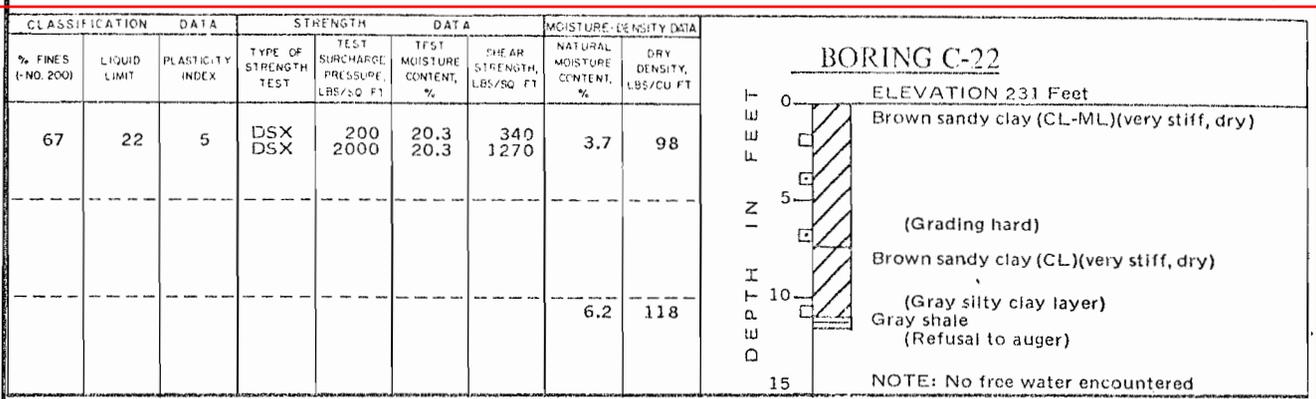
Logs of Borings B12, C22, P13, P18 and P19

Revisions: _____
 By _____ Date _____
 By _____ Date _____
 Location: Novato
 Checked By _____ Date 9-15-72
 Job Number 730-A2 Name _____
 Marin Community College District



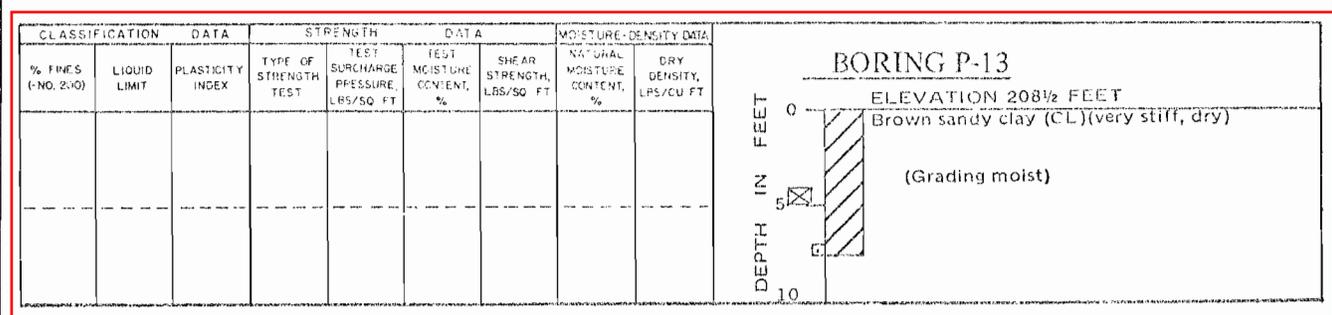
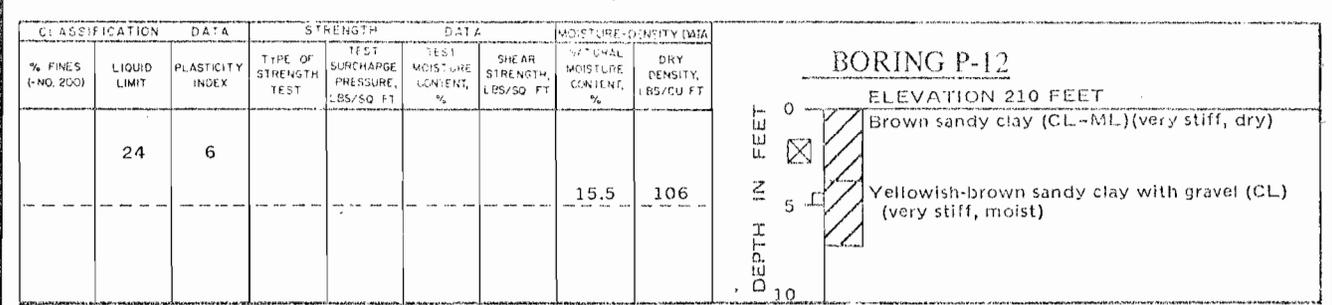
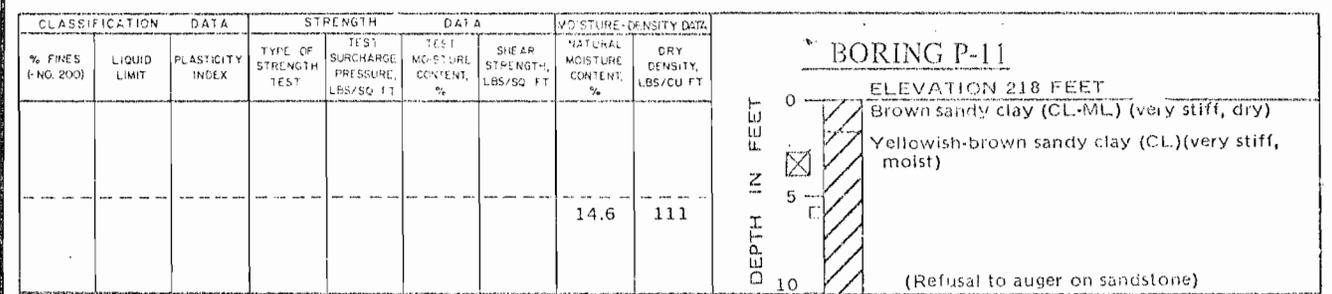
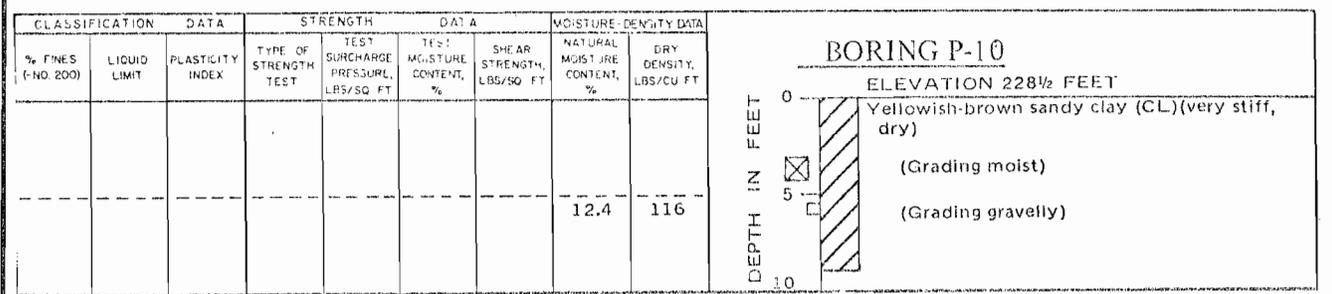
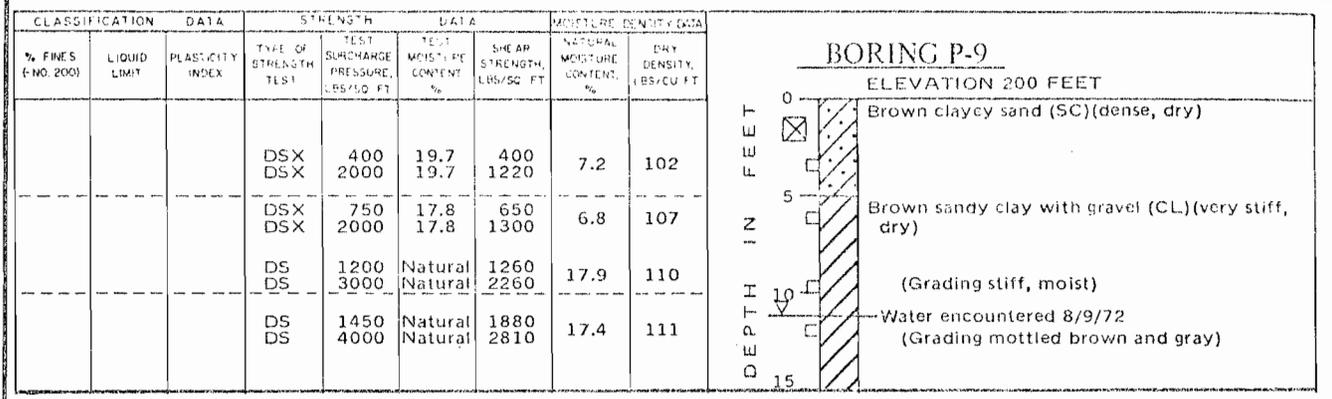
BORING LOGS

Revisions: _____
 By _____ Date _____
 By _____ Date _____
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 Name: Marin Community College District
 Job Number: 730-A2
 Date: 9-15-72



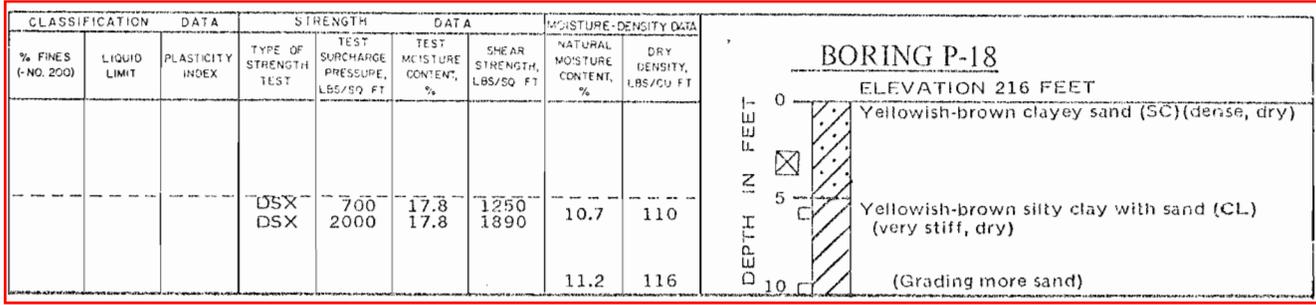
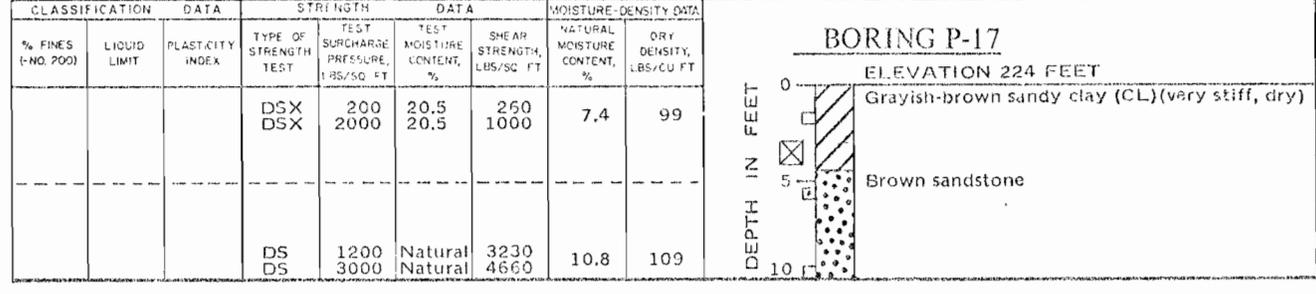
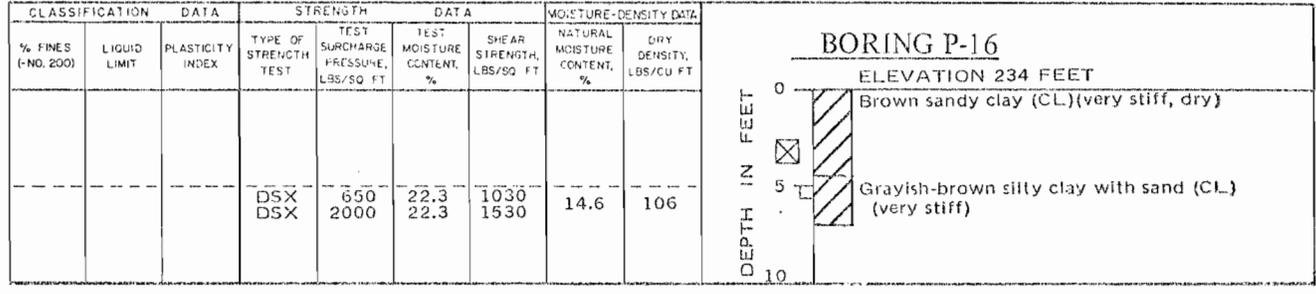
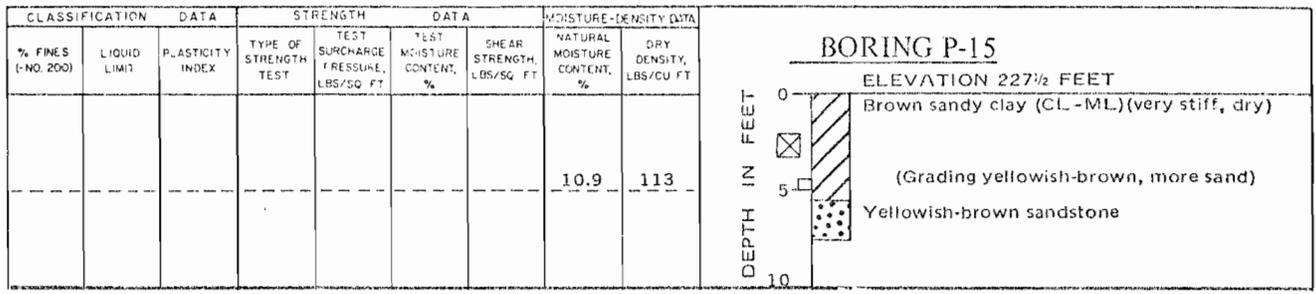
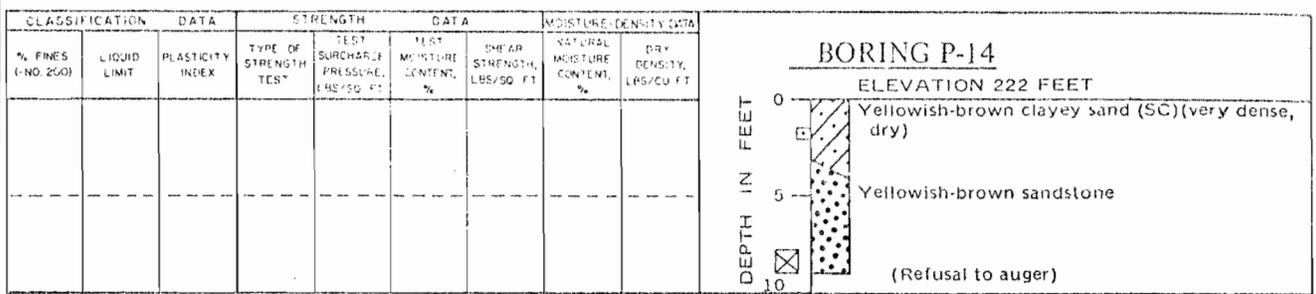
BORING LOGS

Revisions: _____
 By _____ Date _____
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 Location: Novato
 Marin Community College District
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 Job Number 730-A2
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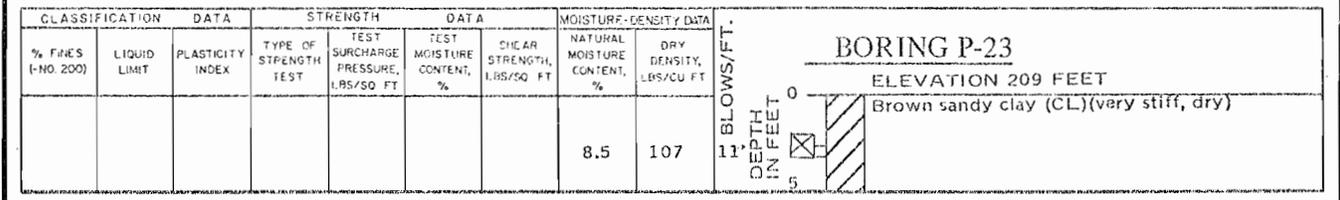
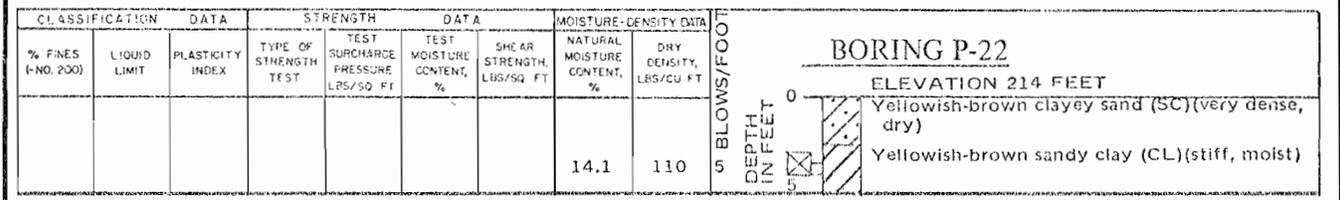
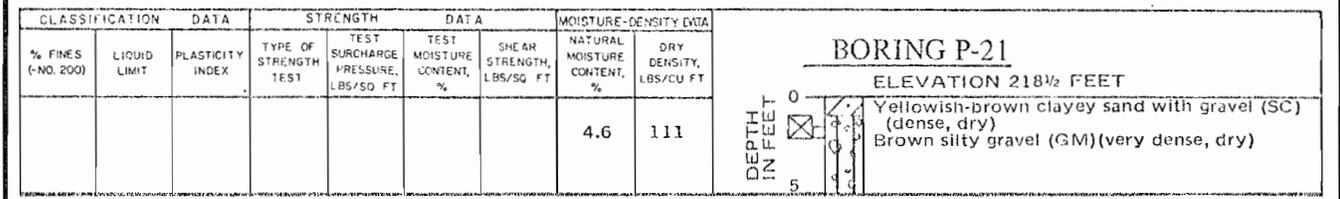
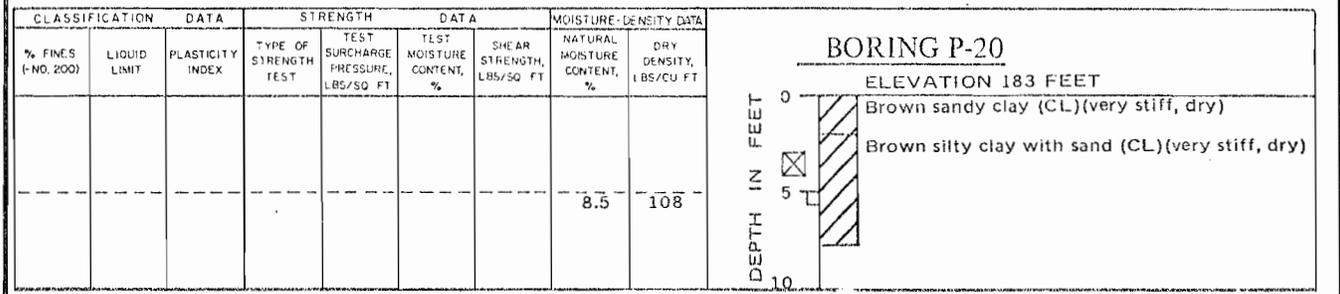
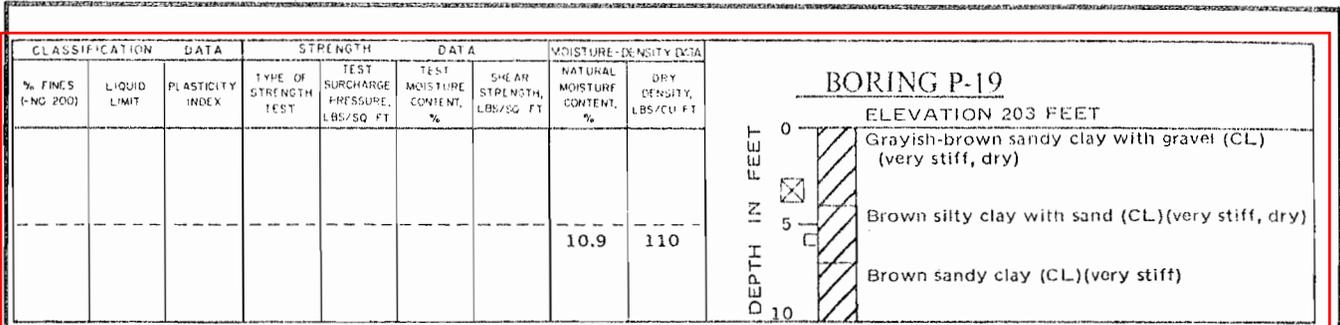
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Revisions: _____
 By IT Date 9-15-72
 Checked By _____
 Job Number 730-A2 Name Novato Location Marin Community College District



BORING LOGS

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 Checked By TT Date 9-15-72
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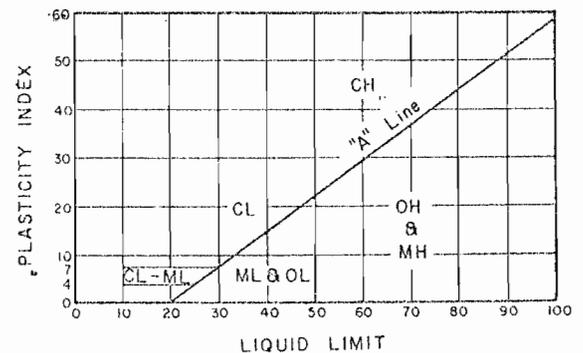


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MAJOR DIVISIONS		SYMBOLS	TYPICAL NAMES
COARSE GRAINED SOILS (More than 1/2 of soil > no. 200 sieve size)	<u>GRAVELS</u> (More than 1/2 of coarse fraction > no. 4 sieve size)	GW	Well graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	<u>SANDS</u> (More than 1/2 of coarse fraction < no. 4 sieve size)	SW	Well graded sands or gravelly sands, little or no fines
		SP	Poorly graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
FINE GRAINED SOILS (More than 1/2 of soil < no. 200 sieve size)	<u>SILTS & CLAYS</u> <u>LL < 50</u>	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
		OL	Organic silts and organic silty clays of low plasticity
	<u>SILTS & CLAYS</u> <u>LL > 50</u>	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic clays of medium to high plasticity, organic silty clays, organic silts
HIGHLY ORGANIC SOILS	Pt	Peat and other highly organic soils	

CLASSIFICATION CHART (Unified Soil Classification System)

CLASSIFICATION	RANGE OF GRAIN SIZES		
	U.S. Standard Sieve Size	Grain Size in Millimeters	
BOULDERS	Above 12"	Above 305	
COBBLES	12" to 3"	305 to 76.2	
GRAVEL	3" to No. 4	76.2 to 4.76	
	coarse 3" to 3/4"	76.2 to 19.1	
fine	3/4" to No. 4	19.1 to 4.76	
SAND	No. 4 to No. 200	4.76 to 0.074	
	coarse	No. 4 to No. 10	4.76 to 2.00
	medium	No. 10 to No. 40	2.00 to 0.420
	fine	No. 40 to No. 200	0.420 to 0.074
SILT & CLAY	Below No. 200	Below 0.074	



PLASTICITY CHART

GRAIN SIZE CHART

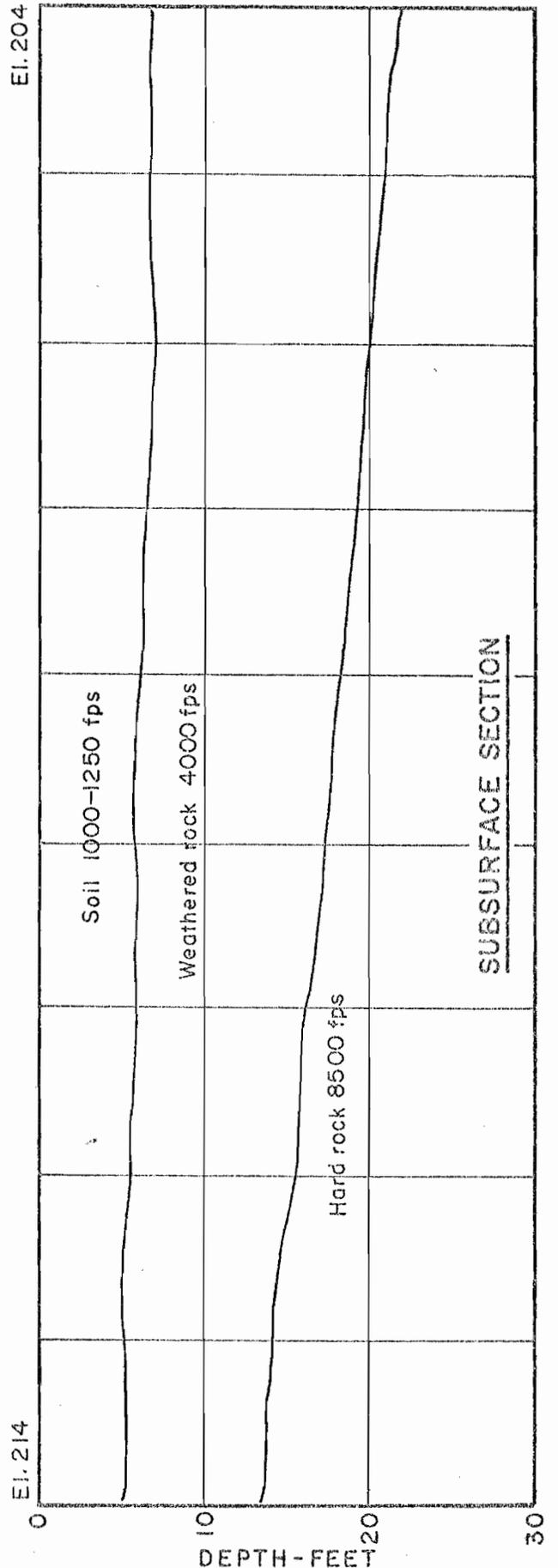
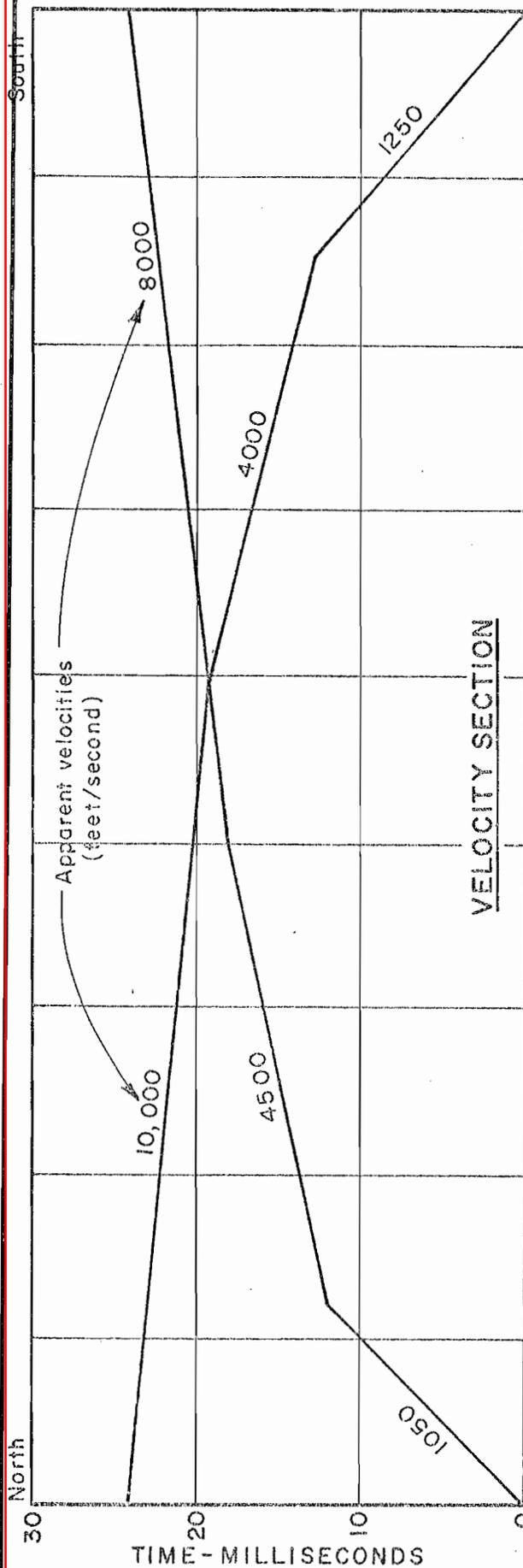
METHOD OF SOIL CLASSIFICATION



Seismic Refraction Lines S3, S4 and S5

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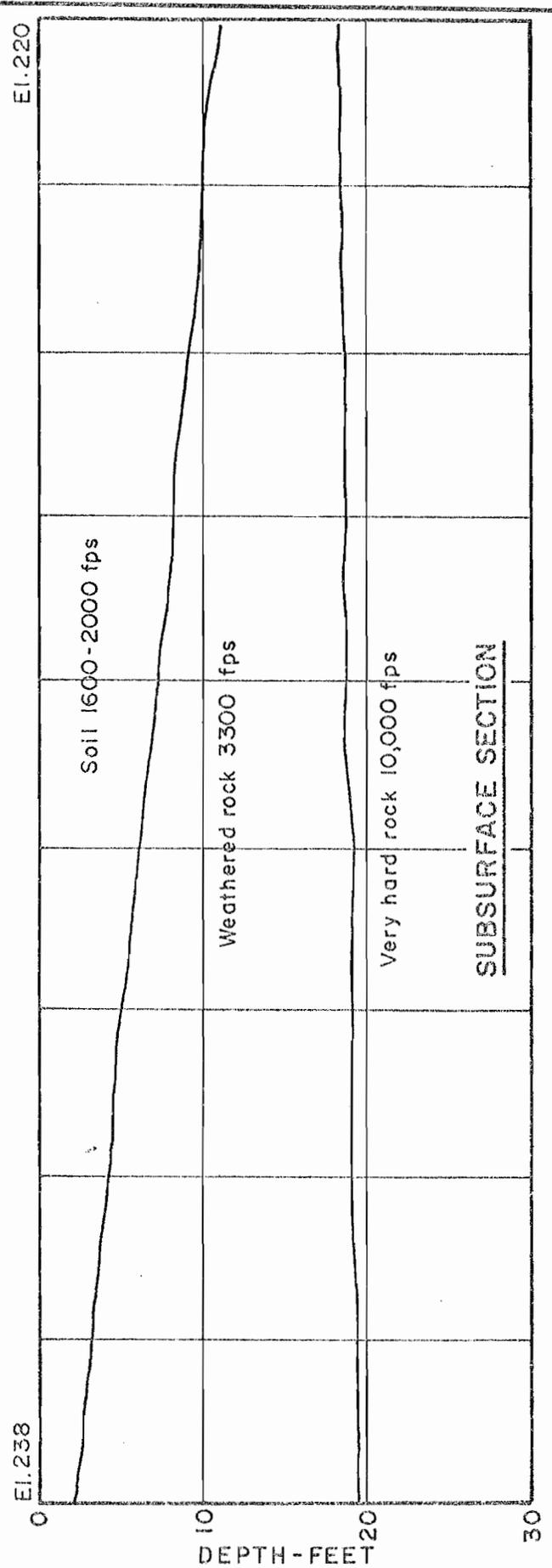
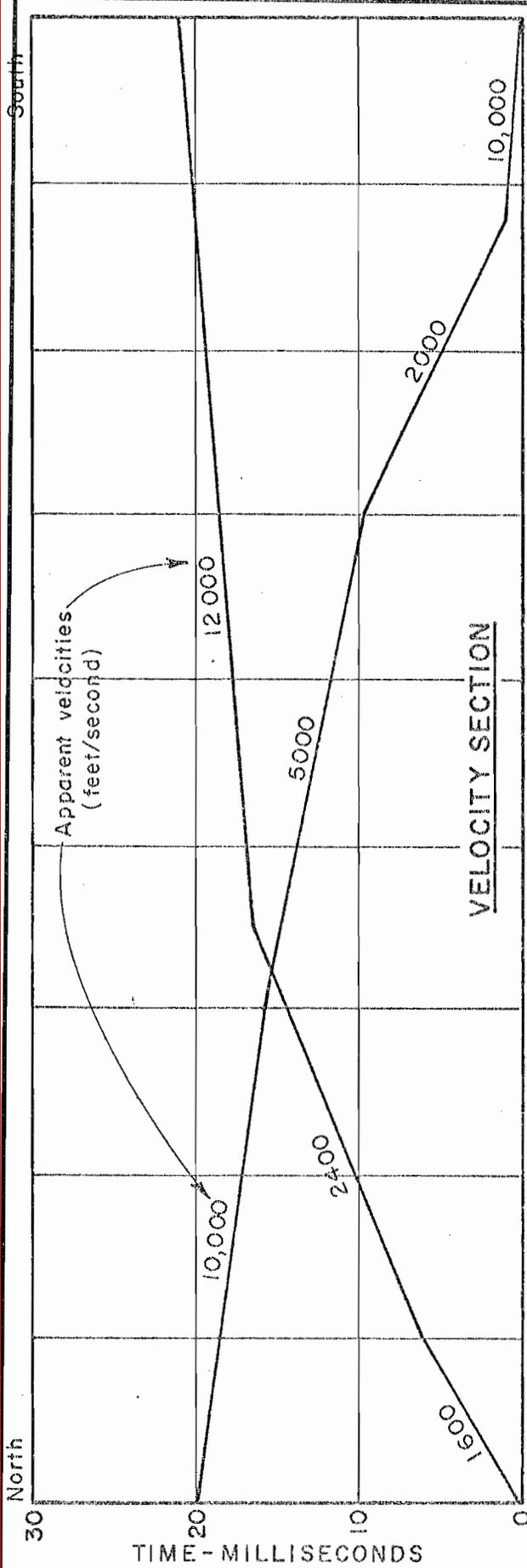
By AHM Date 9-5-72
 Checked By _____
 Job Number 730-A2 Name _____ College of Marin Location Novato



SEISMIC LINE S - 3
 SCALE: 1" = 10'



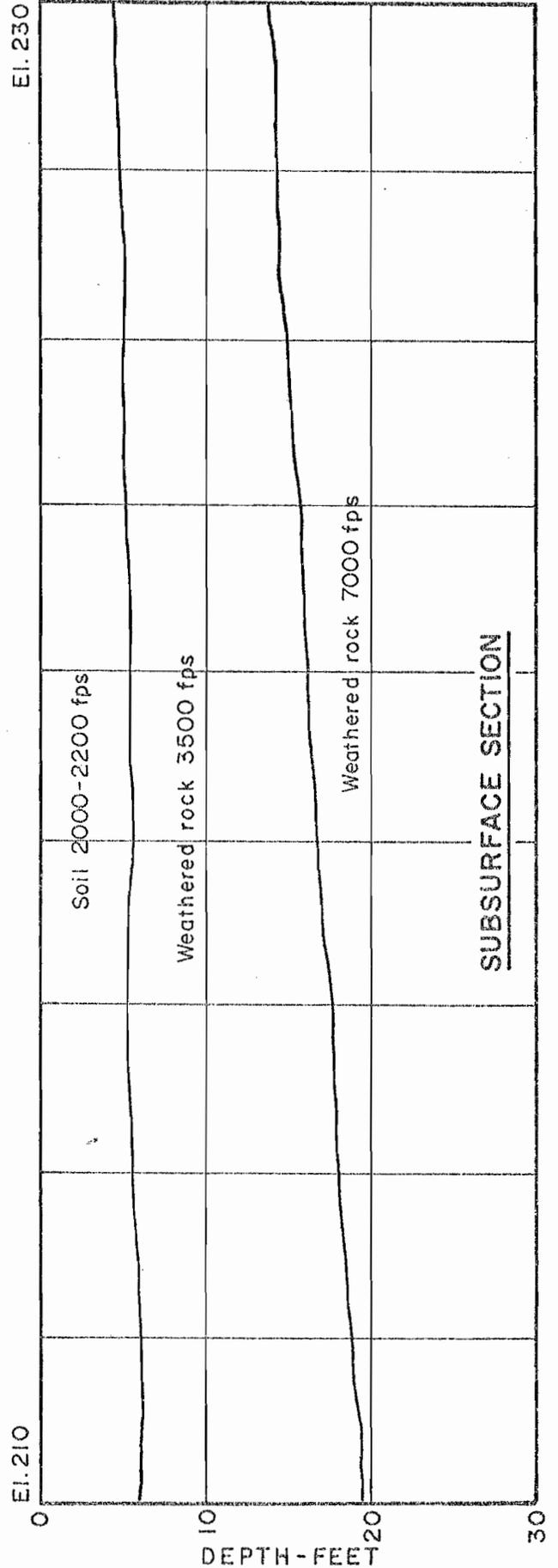
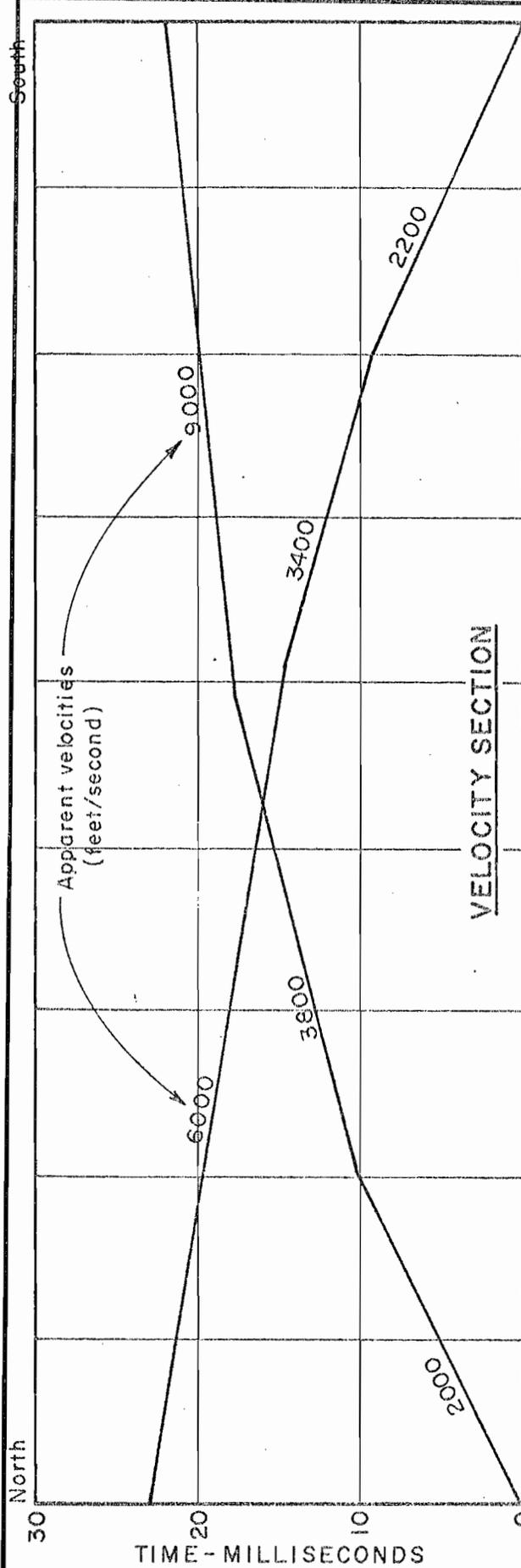
Revisions: _____
 By _____ Date _____
 By _____ Date _____
 Location Novato
 By WWW Date 9-1-72
 Checked By _____ College of Marin
 Job Number 730-A2 Name _____



SEISMIC LINE S-4
 SCALE: 1" = 10'

Revisions: _____
 By _____ Date _____
 By _____ Date _____
 By _____ Date _____

By WWW Date 9-1-72
 Checked By _____
 Job Number 730-A2 Name College of Marin Location Novato



SEISMIC LINE S-5
 SCALE: 1" = 10'

