
Request for Proposals

December 6, 2021

The East Bay Regional Park District (EBRPD) is soliciting proposals from environmental consulting and/or engineer firms to provide environmental design, planning, and engineering services for the Eckley Water Access and Shoreline Improvement Project. The District is interested in firms with expertise and experience in environmental design, coastal engineering, railroad crossings and planning projects similar to that described below.

OPTIONAL PRE-PROPOSAL MEETING

10:00 AM

December 17, 2021

Location: Eckley Pier, 5700 Eckley Rd, Crockett, CA 94525

PROPOSAL SUBMITTAL PROCESS

Proposals must be received by the EBRPD **no later than 5:00 PM, January 7, 2022**

Please submit proposals via e-mail to jrasmussen@ebparks.org. Late proposals will not be considered.



COMMUNICATIONS

The last day to submit questions is 5-days before proposals are due. Questions regarding this RFP shall be submitted in writing to Jeff Rasmussen at jrasmussen@ebparks.org. We request that Firms notify the EBRPD (via email) of their interest in submitting a proposal for this project. EBRPD's responses to substantive questions will be shared with all Firms that notify the EBRPD.

SCOPE OF SERVICES AND DELIVERABLES

#	Description	Amount
1	Topo Survey & Utility Survey	
2	Engineering ADA Access and Water Trail Ramp	
3	Engineering Railroad Crossing	
4	Engineering Pier Corrosion Repair	
5	Environmental Permitting	
6	Railroad Approval	
7	Other	
8	Total	

PARK DISTRICT RESPONSIBILITIES

In their proposal, the Firm shall define additional information, services and expertise needs from the District for the implementation of this project.

OTHER REQUIREMENTS

1. Cost summary: Provide a detailed itemized cost proposal based on the tasks listed above and a schedule of all costs for labor and services per hour.
2. Schedule: A preliminary project schedule shall be included in Firm's proposal. including response times and lead times for critical items.
3. Qualifications: Proposals shall include a brief summary of up to four recent reference projects that best demonstrate Firm team's relevant experience. Project summary shall provide sufficient information for District to evaluate the specific contributions individual project team members had in completing deliverable items associated with a referenced project. A sample of a deliverable item shall be provided to District upon request. Please keep the length of project summaries to one page.
4. Ownership of work: All work products prepared by Firm shall become the property of District. There shall be no restrictions on District's use, distribution or modification of work products.
5. Acceptance of terms and conditions: The proposal shall include a statement of Firm's willingness to accept the terms and conditions of District's standard Contract for Services, a copy of which is attached as Attachment A. Prospective Firms shall review the Contract for Services, note any items to which it takes exception provide alternate proposed wording and show levels of insurance coverage in each category and return the marked up copy with the proposal. Exceptions to the terms and conditions could affect the selection process.

6. Conflict of Interest: Throughout the term of any agreement resulting from the RFP, Firm will not accept any employment or engage in any work which creates a conflict of interest with the East Bay Regional Park District or in any way compromises the work to be performed under this RFP or any agreement resulting from this RFP.

REJECTION RIGHTS

The selection of a Firm for this project and any agreements for services resulting from this Request for Proposals is dependent upon the approval of the East Bay Regional Park District Board of Directors. District reserves the right to reject any or all proposals or to re-solicit this Request for Proposals.

COST OF RESPONSE PREPARATION

The Park District will make no reimbursement for any cost incurred by a prospective Firm for the preparation of a response to this Request for Proposals.

FIRM SELECTION PROCESS

All proposals submitted by the required deadline will be reviewed for adequacy, completeness, content, project approach, qualifications and other criteria developed during the review process. Firms who have submitted proposals which pass the initial review may be invited for interviews approximately two weeks after submittal.

EXHIBITS

Exhibit A	PROFESSIONAL CONTRACT FOR SERVICES
Exhibit B	EXISTING PLANS

Exhibit A

CONTRACT FOR SERVICES
(Licensed Professionals)

THIS AGREEMENT, made and entered into on this _____ day of _____, between the East Bay Regional Park District (“District”) and _____, hereinafter referred to as (“Consultant”) (together sometimes referred to as the “Parties”).

RECITALS

- A. District desires to engage the services of Consultant to provide professional services herein described; and
- B. Consultant desires to perform such services for District.

NOW, THEREFORE, in consideration of the mutual agreements herein contained, the Parties hereto agree as follows:

1. Term.

The term of this Agreement shall commence on _____ and shall end on _____. The General Manager or his/her designee may extend the term of this Agreement by providing written notice to Consultant. Time is of the essence in the performance of this Agreement.

2. Scope of Work.

During the term of this Agreement, Consultant shall provide all labor, materials, tools, equipment and services as set forth in **Exhibit A**, attached hereto and made a part hereof (“Scope of Work”). In the event of a conflict in or inconsistency between the terms of this Agreement and **Exhibit A**, the terms of the body of the Agreement shall prevail.

3. Standard of Care.

- a. Standard of Care. Consultant agrees to perform the work in a professional manner and in a manner consistent with that degree of skill and care ordinarily exercised by members of the same profession currently practicing under similar circumstances at the same time and in the same or similar locality. Consultant warrants and represents that all of the personnel, employees, and subconsultants performing the work under this Agreement shall have sufficient skill and experience to perform the services assigned to them and that its employees and subconsultants have all licenses, permits, and qualifications required to perform the services under this Agreement.
- b. Subconsultants. Consultant is as responsible for the performance of its subconsultants as it would be if it had rendered these services itself. Consultant shall not subcontract any portion of the performance contemplated and provided for in this Agreement, other than

to the subconsultants noted in Consultant's proposal, without prior written approval of the District. In the event that District, in its sole discretion, desires the reassignment of any persons performing work under this Agreement, Consultant shall, upon receiving notice from the District, immediately reassign such person or persons.

- c. Materials. Any construction materials and manufactured items called for by Consultant's documents shall be currently available and suitable for their intended use to achieve design intent.

4. Representatives.

The representative of Consultant who will make any presentations, attend any public hearings, supervise all service, and be the first point of contact in providing all services under this Agreement shall be _____. The representative of District who will monitor this Agreement and be responsible for its interpretation and/or modification shall be _____.

5. District-Provided Studies or Surveys.

Consultant shall make a recommendation to the District regarding the completeness or sufficiency of any survey or specialized study provided to Consultant, or the need for any study or survey that the Consultant believes is required for the Project that is not included in the Consultant's Scope of Work. Consultant may rely on the information provided by District but only to the extent such reliance is consistent with Consultant's obligations under this Agreement.

6. Acceptance.

The District's review, approval, or acceptance of Consultant's work shall not relieve Consultant from responsibility for error and omissions in Consultant's work. Consultant shall, at no cost to District, satisfactorily correct any and all errors, omissions, deficiencies, or conflicts in the documents prepared by Consultant promptly upon discovery or notice. The obligations of Consultant to correct defective or nonconforming work shall not limit any other obligations of Consultant.

7. Time of Performance.

Consultant acknowledges that all time limits stated in this Agreement are of the utmost importance to District. Consultant's work shall be scheduled and performed to meet agreed-upon deadlines, as set forth in the Scope of Work. Consultant shall provide and maintain Project staffing levels as necessary to perform the services under this Agreement within the time provided in the Scope of Work. The total time scheduled for full completion of Consultant's services shall not exceed the durations shown in the Scope of Work, unless mutually agreed upon in writing by Consultant and District.

8. Payment.

District hereby agrees to pay Consultant a sum not to exceed \$ _____, notwithstanding any contrary indications that may be contained in Consultant's proposal, for services to be performed and reimbursable costs incurred under this Agreement. In the event of a conflict between this Agreement and the Scope of Work, attached as **Exhibit A**, or Consultant's compensation rate schedule attached as **Exhibit B**, regarding the amount of compensation, the text of the Agreement shall prevail. All reimbursable expenses incurred by Consultant as part of this Agreement will be reimbursed at actual cost and in no event shall expenses be advanced by District to Consultant. Such compensation shall be full payment to Consultant (including expenses) for performance of said services; provided, however, that in no event shall the sum of total compensation paid Consultant and reimbursable expense exceed the amount not to exceed amount stated in this section without a written amendment signed by both Parties.

Consultant shall submit his/her compensable hours and reimbursable expenses monthly, and District shall make payments on the approved compensation and reimbursable expenses within forty-five (45) days. In no event shall Consultant submit any invoice for an amount in excess of the maximum amount of compensation provided in this Agreement, unless this Agreement is modified prior to the submission of such an invoice by a properly executed change order or amendment.

Consultant and District acknowledge and agree that compensation paid by District to Consultant under this Agreement is based upon Consultant's estimated costs of providing the services required hereunder, including salaries and benefits of employees and subcontractors of Consultant. Consequently, the parties further agree that compensation hereunder is intended to include the costs of contributions to any pensions and/or annuities to which Consultant and its employees, agents, and subcontractors may be eligible. District therefore has no responsibility for such contributions beyond compensation required under this Agreement.

9. Termination of Agreement for Convenience.

District may terminate the whole or any part of this Agreement for convenience and without cause at any time. In such event, District shall give written notice of such termination. In the event of termination under this section, Consultant shall have the right to expend reasonable additional time to assemble work in progress for the purpose of proper filing and closing the job. Prior to expending said time, Consultant shall present to District, a complete report of said proposed job closure and its costs, and District may approve all or any part of said expense. Such additional time shall not exceed ten percent (10%) of the total time expended to the date of notice of termination. All charges thus incurred and approved by District, together with any other charges outstanding at the time of termination, shall be payable by District within thirty (30) days following submission of a final statement by Consultant.

10. Consultant as Independent Contractor.

It is expressly agreed that in the performance of the services necessary to carry out this

Agreement, Consultant shall be, and is, an independent contractor, and is not an agent or employee of District. Consultant has and shall retain the right to exercise full control and supervision of the services, and full control over the employment, direction, compensation and discharge of all persons assisting him/her in the performance of his/her services hereunder. Consultant shall be solely responsible for all matters relating to the payment of his/her employees, including compliance with social security, withholding, and all other regulations governing such matters, and shall be solely responsible for his/her own acts and those of his/her subordinates, sub-consultants, agents and employees.

11. Brokers: Compliance with Federal, State and Municipal Statutes.

Consultant warrants that he/she has not employed nor retained any broker, agent, company or person other than bona fide, full-time employees of Consultant working solely for Consultant, to solicit or secure this Agreement, and that he/she has not paid nor agreed to pay any broker, agent, company, nor persons other than bona fide employees any fee, commission, percentage, brokerage fee, gifts, or any other consideration, contingent upon or resulting from the award of this Agreement. Consultant shall indemnify, defend, protect and hold harmless District, its directors, officers, and employees from such claims.

12. Compliance with Laws.

Consultant shall comply with all federal, state, and local laws and regulations applicable to his/her work hereunder. Consultant shall use its professional judgment and expertise to verify interpretations of applicable law, codes, regulations, and ordinances, from the appropriate Government Agency(s) and authorities having jurisdiction over the Project. Such efforts will be undertaken in accordance with the acceptable standard of care for this type of Project. Where applicable, Consultant shall comply with all mitigation measures identified in the Project's environmental review documents.

13. Grant Funding.

To the extent that this Agreement may be funded by fiscal assistance from another governmental entity or public grant program, Consultant and any subconsultants shall comply with all applicable rules and regulations to which District is bound by the terms of such fiscal assistance program.

14. Nondiscrimination.

During the performance of this Agreement, Consultant and Consultant's sub-consultants agree as follows:

- a. Contractor and Contractor's subcontractors will not discriminate against any employee or qualified applicant for employment on the basis of any legally protected classification including but not limited to sex, race, gender identity, creed, color, ancestry, religion, national origin, ethnic group identification, age, disability, medical condition, genetic information, marital status, or sexual orientation. Contractor and any subcontractors agree to comply with all nondiscrimination requirements for

public contracting under State and Federal law. Contractor and Contractor's subcontractors will take affirmative steps to ensure that qualified applicants are employed and that employees are treated during employment without regard to their sex, race, gender identity, creed, color, ancestry, religion, national origin, ethnic group identification, age, disability, medical condition, genetic information, marital status, sexual orientation or any other legally protected classification. This equal treatment will apply but not be limited to, the following: upgrade, demotion, transfer, recruitment, recruitment advertising, layoff, termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship. Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provision of this non-discrimination clause.

- b. Contractor and Contractor's subcontractors will, in all solicitations or advertisements for employees placed by or on behalf of Contractor, state that all qualified applicants will receive consideration for employment without regard to sex, race, gender identity, creed, color, ancestry, religion, national origin, ethnic group identification, age, disability, medical condition, genetic information, marital status, sexual orientation, or any other legally protected classification.
- c. Contractor and Contractor's subcontractors will send to each labor union or representative of workers with which he/she has a collective bargaining agreement or contract or understanding, a notice advising the labor union or workers' representative of Contractor's commitments under this non-discrimination clause.

15. Labor Code/Prevailing Wages.

To the extent applicable, Consultant and Consultant's subconsultants shall comply with the requirements of the California Labor Code including but not limited to hours of labor, nondiscrimination, payroll records, apprentices, workers' compensation, and payment of prevailing wages as determined by the Director of California Department of Industrial Relations, pursuant to the Director's authority under Labor Code Section 1770 et seq. To the extent applicable, Consultant shall post a copy of the prevailing rate of per diem wages at each job site. Consultant shall forfeit fifty dollars (\$50) for each calendar day or portion thereof for each worker paid less than the stipulated prevailing rates for any public work done under the Agreement by it or any subconsultant.

An error on the part of an awarding body does not relieve the Consultant from responsibility for payment of the prevailing rate of per diem wages and penalties pursuant to Labor Code Sections 1770-1775. The District will not recognize any claim for additional compensation because of the payment by the Consultant for any wage rate in excess of prevailing wage rate set forth. The possibility of wage increases is one of the elements to be considered by the Consultant. Consultant shall defend, indemnify and hold harmless the District for any costs, claims and expenses arising from the failure of Consultant or Consultant's subconsultants to pay applicable prevailing wage rates.

16. Indemnification.

- a. Separate Professional Liability (PL) Indemnity. To the fullest extent permitted by law, including without limitation California Civil Code Section 2782 and 2782.8, and with respect to the performance of professional services, Consultant agrees to indemnify and hold harmless District, its officers, employees, authorized agents/volunteers, and invitees (collectively, the “District Indemnitees”), from and against any claims, damages, losses, demands, liabilities, judgments, settlements, expenses, and costs (including reasonable and necessary attorneys' fees, costs and expenses) to the extent caused by Consultant's negligent acts, errors or omissions or willful misconduct in the performance of services under this Agreement and anyone for whom Consultant is legally liable. Consultant has no obligation to pay for any of District Indemnitees defense related cost prior to a final determination of liability, or to pay any amount that exceeds Consultant’s finally determined percentage of liability based upon the comparative fault of Consultant.
- b. Separate Other than Professional Liability (OPL) Indemnity. As respect to its operations, other than the performance of professional services, Consultant agrees to indemnify, hold harmless and defend District with counsel approved by District, the District Indemnitees, from and against any damages, liabilities, judgments, settlements, costs, claims, demands, actions, suits, losses, and expenses (including reasonable and necessary attorneys' fees, costs and expenses) arising out of the death or bodily injury to any person or destruction or damage to any property, to the extent caused by Consultant's negligent acts, errors or omissions or willful misconduct in the performance of services under this Agreement and anyone for whom Consultant is legally liable.
- c. Common PL & OPL Indemnity Provisions. Consultant’s obligations under this Section 16 shall not apply when (1) the injury, loss of life, damage to property, or violation of law arises from the gross negligence or willful misconduct of the District or its officers, employees, agents, or volunteers and (2) the actions of Consultant or its employees, subcontractor, or agents have contributed in no part to the injury, loss of life, damage to property, or violation of law. It is understood that the duty of Consultant to indemnify and hold harmless under Section 16(b) includes the duty to defend as set forth in Section 2778 of the California Civil Code. Acceptance by District of insurance certificates and endorsements required under this Agreement does not relieve Consultant from liability under this indemnification and hold harmless clause. This indemnification and hold harmless clause shall apply to any damages or claims for damages whether or not such insurance policies shall have been determined to apply. By execution of this Agreement, Consultant acknowledges and agrees to the provisions of this Section and that it is a material element of consideration.
- d. In the event that Consultant or any employee, agent, or subcontractor of Consultant providing services under this Agreement is determined by a court of competent jurisdiction or the California Public Employees Retirement System (PERS) to be

eligible for enrollment in PERS as an employee of District, Consultant shall indemnify, defend, and hold harmless District for the payment of any employee and/or employer contributions for PERS benefits on behalf of Consultant or its employees, agents, or subcontractors, as well as for the payment of any penalties and interest on such contributions, which would otherwise be the responsibility of District.

17. Insurance.

- a. Consultant shall procure and keep in force during the term of this Agreement, at Consultant's own cost and expense, the following policies of insurance with companies licensed to do business in the State of California, which are rated at least "A" or better by A.M. Best Company and which are acceptable to District. Consultant shall, fifteen (15) days prior to the commencement of this Agreement and prior to the termination of any policy, supply District with a certificate, on the District's certificate of insurance form, showing that such insurance is in force.
 - (1) Consultant shall, at its sole cost and expense, maintain Statutory Workers' Compensation Insurance and Employer's Liability Insurance for any and all persons employed directly or indirectly by Consultant. The Statutory Workers' Compensation Insurance and Employer's Liability Insurance shall be provided with limits of not less than one million dollars (\$1,000,000) per accident. In the alternative, Consultant may rely on a self-insurance program to meet those requirements, but only if the program of self-insurance complies fully with the provisions of the California Labor Code. Determination of whether a self-insurance program meets the standards of the Labor Code shall be solely in the discretion of the District. The insurer, if insurance is provided, or the Consultant, if a program of self-insurance is provided, shall waive all rights of subrogation against the District and its officers, officials, employees, and volunteers for loss arising from work performed under this Agreement.
 - (2) Commercial General Liability ("CGL") (bodily injury and property damage) on an occurrence basis in an amount not less than one million dollars (\$1,000,000) per occurrence and at least two million dollars (\$2,000,000) in the aggregate, including premises and operations (including off-site operations), blanket contractual liability, broad form property damage, products and completed operations, owner's and Consultant's protective liability, (and if one or more of the following is applicable) personal injury, coverage for explosion, collapse and underground hazards, non-owned watercraft protection and indemnity, U.S. longshore and harbor workers coverage, pollution liability, liquor liability, and saddle animal liability.
 - (3) Automobile Liability (bodily injury and property damage) in an amount not less than one million dollars (\$1,000,000) per occurrence extending to owned, non-owned and hired vehicles and including contractual liability covering all liability assumed under Agreement.
 - (4) Professional Liability Insurance (errors and omissions), including contractual

liability, in an amount not less than one million dollars (\$1,000,000) per occurrence and two million dollars (\$2,000,000) in the aggregate. Such coverage may be written on a claims-made basis.

- b. Each of the above policies must contain a provision that the policy shall not be cancelled or the terms or conditions thereof materially changed without thirty (30) days' prior written notice to District. No cancellation provision in any insurance policy shall be construed in derogation of the continuous duty of Consultant to furnish the required insurance during the term of this Agreement.
- c. Upon written request by District, the insurer or his/her agent will furnish a copy of any policy cited above, certified to be a true and complete copy of the original.
- d. The policies listed under a(1) above shall contain a waiver of subrogation in favor of the District.
- e. The policies listed under a(2) and a(3) above shall name the District as an additional insured with respect to the operations performed under this Agreement.
- f. The coverage afforded on behalf of District under a(2), a(3) and a(4) above shall be primary insurance and any other insurance available to District under any other policies shall be excess over the insurance outlined above.
- g. Upon written request of District, annual loss reports will be supplied to District. The loss report will include a list of all incidents/claims submitted against the insurance company and the estimated reserved and paid value of the claims.
- h. District reserves the right to require reasonable increases in the limits of coverage from time to time during the term of this Agreement.
- i. Policies should be written on an occurrence basis. Only by special permission of District may a claims-made form be used. The retroactive date on any policy written on a claims-made basis shall be the effective date of this Agreement or prior. The retroactive date of any subsequent renewal of such policy shall be the same as the original policy, provided that the extended reporting or discovery period shall not be less than thirty-six (36) months following expiration of such policy.
- j. Consultant certifies that he/she is aware of the provisions of Section 3700 of the California Labor Code, which requires every employer to be insured against liability for Workers' Compensation or to undertake self-insurance in accordance with the provisions of that Code. Consultant shall comply with the provisions of Section 3700 of the Labor Code before commencing the performance of the work under this Agreement.
- k. Consultant shall require and verify that all subconsultants maintain insurance meeting all the requirements stated herein.

1. In case of the breach of any provision of this section, District may, in addition to any other remedies it may have, at District's option, take out and maintain, at the expense of Consultant, such types of insurance in the name of the Consultant as District may deem proper and may deduct the cost of taking out and maintaining such insurance from any sums which may be found or become due to Consultant under this Agreement or may demand Consultant to promptly reimburse the District.

18. Default.

In the event that Consultant defaults in any obligation of Consultant under this Agreement, or Consultant defaults in the performance of any of the terms and conditions of this Agreement, and Consultant does not cure its failure to perform to the satisfaction of the District within ten (10) days (or such time authorized by the District in writing) after written notice by the District, District may, at its option, declare this Agreement to be in default and, at any time thereafter, may do any one or more of the following:

- a. Enforce performance of the Agreement by Consultant.
- b. Immediately terminate Consultant's services under this Agreement.
- c. Perform the obligations of the Consultant, whereupon Consultant shall reimburse District for any amounts paid or expenses incurred by District, or pay District any expenses and/or damages incurred by District in the performance of such obligations, District's increased cost in performing the work, together with interest at the maximum rate of interest allowed by law on demand by District. District at its option may deduct any sum due to District from sums to be paid by District to Consultant.
- d. The above remedies are in addition to any other remedies at law or equity District may have. Consultant shall pay or reimburse District for all of District's costs and expenses, including reasonable attorneys' fees incurred in enforcing its rights hereunder.

19. Consultants Books and Records/Audit.

Consultant and Consultant's subconsultants, if any, shall maintain any and all ledgers, books of account, invoices, vouchers, and any other records or documents pertaining to charges for services, expenditures and disbursements to District under this Agreement for a minimum of three (3) years, or such longer period required by law, from the date of final payment to Consultant by District. Any records or documents required to be maintained under this section shall be made available to District for inspection and copying upon request. In accordance with California Government Code Section 8546.7, if the Not to Exceed Amount exceeds ten thousand dollars (\$10,000), this Agreement and the Consultant's books and records related to this Agreement shall be subject to the examination and audit of the State Auditor, at the request of District or as part of any audit of the District, for a period of three (3) years after final payment under the Agreement.

20. Assignment.

District and Consultant recognize and agree that this Agreement contemplates personal performance by Consultant and is based upon a determination of Consultant’s unique personal competence, experience, and specialized personal knowledge. Moreover, a substantial inducement to District for entering into this Agreement was and is the professional reputation and competence of Consultant. Consultant shall not assign or otherwise transfer any rights, duties, obligations or interest in this Agreement or arising hereunder to any persons or entities whatsoever without the prior written consent of District and any attempt to assign or transfer without such prior written consent shall be void. Consent to any single assignment or transfer shall not constitute consent to any further assignment or transfer.

21. Advice of Counsel/Attorneys’ Fees.

If either party prevails against the other in a legal action concerning any aspect of this Agreement, such successful party shall be entitled to recover its reasonable attorneys’ fees and costs incurred in such action from the losing party.

Both parties have had a full and complete opportunity to have the Agreement reviewed by legal counsel, and no presumption or rule that ambiguity shall be construed against the drafting party shall apply to the interpretation or enforcement of this Agreement.

22. Notices.

If either party shall desire or be required to give notice to the other, such notice shall be given in writing, and shall be personally delivered or sent by prepaid U.S. certified or registered postage, return receipt requested, addressed to the recipient as follows:

DISTRICT: East Bay Regional Park District
 Attention: _____
 2950 Peralta Oaks Court
 Oakland, CA 94605
 Phone: _____
 Email: _____

CONSULTANT: _____
 Attention: _____
 Address: _____

 Phone: _____
 Email: _____

Either party may change its address by giving notice to the other in the manner provided herein.

23. Ownership of Work.

All reports, data, maps, models, charts, studies, surveys, photographs, plans, specifications, or

any other documents in electronic or any other form (collectively “documents and materials”), that Consultant prepares or obtains pursuant to this Agreement shall be the property of the District to be used, reused or disposed of by the District in its sole discretion without the permission of Consultant. In the event of early termination of this Agreement and notwithstanding any dispute regarding payments, the District retains its ownership of the documents and materials and retains the right to receive and use any documents or materials pursuant to this Agreement.

24. Digital Files.

In addition to any other format required in the Scope of Work, Consultant shall provide copies of all deliverables on compact disk in a digital format. Files shall be compatible with software used by the District. Any necessary conversion to formats compatible with District software to comply with this section shall be performed at no additional cost to the District.

25. Payment of Taxes, Tax Withholding.

Consultant is solely responsible for the payment of employment taxes incurred under this Agreement and any similar federal or state taxes. During the term of this Agreement and for three (3) years after the termination of this Agreement, Consultant shall maintain in its files a valid California Franchise Tax Board form 590 (“Form 590”), as may be amended, or other valid, written evidence of an exemption or waiver from withholding for Consultant and all subcontractors receiving compensation under this Agreement. Consultant accepts sole responsibility for withholding taxes from any non-California resident subcontractor and shall submit written copies of any Form 590 and/or documentation of compliance with Consultant’s withholding duty to District upon request.

26. Confidential Information.

All ideas, memoranda, specifications, plans, procedures, drawings, descriptions, computer program data, input record data, written information and other documents or data either created by or provided to Consultant in connection with the performance of this Agreement shall be treated as confidential by Consultant. Such materials shall not, without the prior written consent of District, be used by Consultant for any purposes other than the performance of the services. Such materials shall not be disclosed to any person or entity not connected with the performance of the services under this Agreement. Nothing furnished to Consultant which is generally known, or has become known, to the related industry shall be deemed confidential.

27. Governing Law.

This Agreement shall be construed and interpreted in accordance with the laws of the State of California. In the event that either party brings any action the trial of such action shall be venued exclusively in the state courts of California in the County of Alameda or in the United States District Court for the Northern District of California.

28. No Waiver.

The waiver of any breach of a term or requirement of this Agreement does not constitute a waiver of any other breach of that term or requirement or any other term or requirement of this Agreement.

29. Conflicts of Interest.

Consultant declares that Consultant has no interest and shall not acquire any interest, direct or indirect, financial or otherwise, which would conflict in any manner or degree with the performance of services hereunder. Consultant further declares that in the performance of this Agreement no subconsultant or person having such interest shall be employed. No officers or employee of the District with responsibility for review, approval of or carrying out of the work to be performed shall be hired by Consultant during the term of this Agreement.

30. Entire Agreement.

This Agreement contains all of the agreements and understandings of the parties pertaining to the subject matter contained herein and supersedes all prior, contemporaneous agreements, representations and understandings of the parties. This Agreement cannot be amended or modified except by written agreement of all the parties. In the event that the terms or conditions of any Exhibits to this Agreement conflict, directly or indirectly, with this Agreement, the provisions of this Agreement shall control.

31. Severability.

The unenforceability, invalidity or illegality of any provision shall not render the other provisions unenforceable, invalid or illegal.

32. Counterparts.

This Agreement may be executed in counterparts, and/or by electronic signature, and/or by fax, and/or by scan and email, and all so executed shall constitute one agreement which shall be binding upon all parties hereto, notwithstanding that the signatures of all parties do not appear on the same page. A facsimile signature, electronic signature, and/or scanned and emailed signature shall be binding upon any party as though it were an original.

[Signatures on Following Page]

IN WITNESS WHEREOF, the parties hereto have caused this AGREEMENT to be executed by their respective officers, duly authorized as of the day, month, and year first hereinabove written.

EAST BAY REGIONAL PARK DISTRICT

CONSULTANT

By: _____

By: _____

Print Name

Print Name

Title

Title

Date: _____

Date: _____

EXHIBIT A – SCOPE OF WORK

EXHIBIT B – RATE SCHEDULE

Exhibit B

GPS CONTROL DIAGRAM
of the
CARQUINEZ STRAIT REGIONAL SHORELINE - ECKLEY AREA
for
EAST BAY REGIONAL PARK DISTRICT
CROCKETT, CALIFORNIA
AUGUST, 1995

BASIS OF BEARINGS AND BENCH MARK

HORIZONTAL AND VERTICAL CONTROLS HAVE BEEN ESTABLISHED BY CROSS LAND SURVEYING, INC. AND ARE BASED UPON A GPS SURVEY HOLDING THE HORIZONTAL AND VERTICAL VALUES FOR POINT NUMBER 4 AND POINT NUMBER 6 AS SHOWN IN THE COORDINATE LIST ENTITLED "PHOTO - CONTROL FOR EBRPD CARQUINEZ STRAIT REGIONAL SHORELINE PROJECT" AS PROVIDED TO THE EAST BAY REGIONAL PARK DISTRICT FROM TUCKER & ASSOCIATES.

VERTICAL CONTROLS ARE BASED UPON A LEVEL CIRCUIT HOLDING THE PUBLISHED ELEVATION OF 12.116 FEET AT USC&GS BENCH MARK A-555. GPS POINTS THAT WERE INCLUDED IN THE LEVEL CIRCUIT ARE IDENTIFIED WITH AN * IN THE "GPS CONTROL VALUES TABLE". THE ELEVATION FOR POINT NUMBER 6 AND POINT NUMBER 7, AS SHOWN IN THE ABOVE MENTIONED COORDINATE LIST FROM TUCKER & ASSOCIATES, WAS ALSO HELD IN THE GPS ADJUSTMENT.

HORIZONTAL DATUM IS NAD83 (1987). VERTICAL DATUM IS NGVD29.

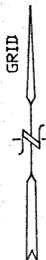
LEGEND

- ▲ FD. CONTROL POINT AS NOTED.
- △ SET PROJECT CONTROL POINT AS NOTED.
- GPS INDEPENDENT BASELINE

SURVEYOR'S STATEMENT

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE LAND SURVEYORS' ACT AT THE REQUEST OF JODDIE HEAVENER, EAST BAY REGIONAL PARK DISTRICT, AUGUST, 1995.

Earl R. Cross
EARL R. CROSS — P.L.S. 3242
LICENSE EXPIRES: June 30, 1996

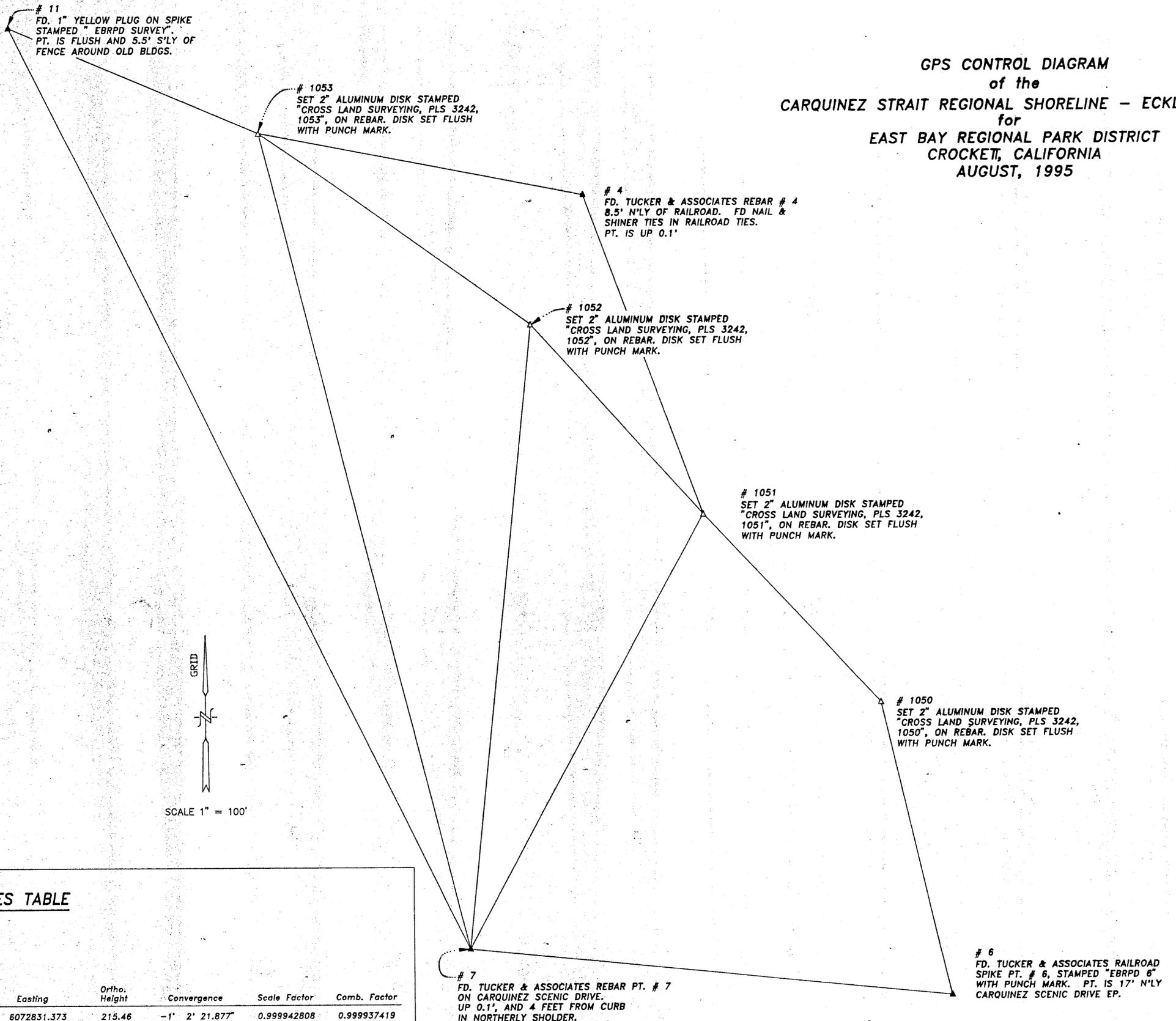


SCALE 1" = 100'

GPS CONTROL VALUES TABLE

Datum: NAD83/NGVD29
Adjustment: NGS Geodetic Control 1987
Zone: California Coordinate System - Zone 3
Linear Units: US Survey Feet unless otherwise stated

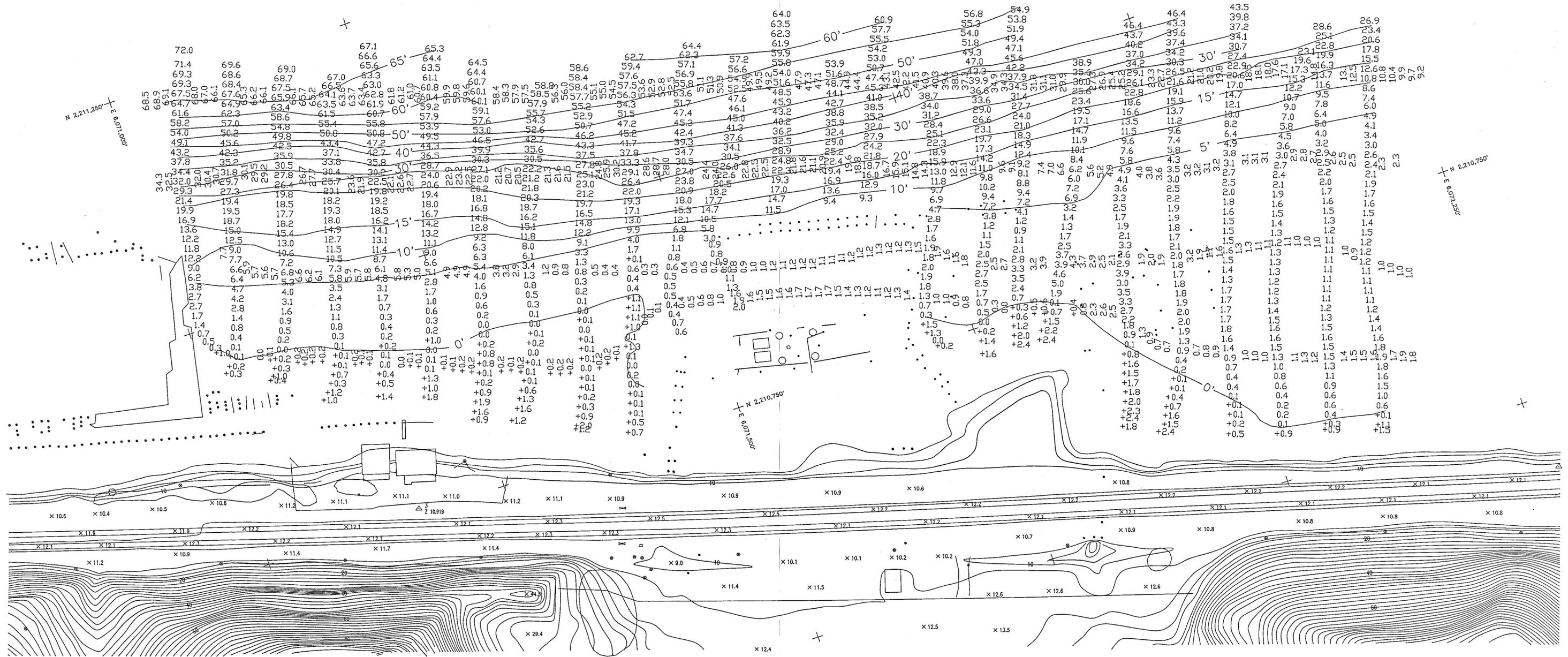
Name	Latitude	Longitude	Ortho. Height(m)	Northing	Easting	Ortho. Height	Convergence	Scale Factor	Comb. Factor
1050	38° 3' 2.31349" N	122° 11' 51.86039" W	65.673	2209461.246	6072831.373	215.46	-1° 2' 21.877"	0.999942808	0.999937419
1051	38° 3' 5.82606" N	122° 11' 56.17393" W	44.920	2209822.749	6072492.857	147.37	-1° 2' 24.518"	0.999942897	0.999940764
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7	38° 2' 57.55183" N	122° 12' 1.63512" W	60.490	2208993.874	6072040.911	198.46	-1° 2' 27.861"	0.999942688	0.999938113



ECKLEY

CROSS LAND SURVEYING, INC.
2210 MT. PLEASANT ROAD
SAN JOSE, CA 95148
(408) 274-7994

CARQUINEZ STRAITS



NOTES:
 Bathymetric data is from a survey conducted by Sea Surveyor, Inc. on 15 December 1994 and represents the seafloor conditions present on that date.
 Horizontal positions were determined using an electronic range azimuth system located onshore and referenced to control points provided by Tucker & Associates, Calistoga, CA. The datum used was the California State Plane Coordinate System, NAD 1983, zone 3.
 Soundings were taken using a survey-grade fathometer and are in feet below Mean Lower Low Water (MLLW). Tidal data was obtained from B.M. "HL Mon 33" (EL. = 12.48' MLLW).
 The location of shoreline features is from a digital chart prepared by Hammon, Jensen, Wallen & Associates, Oakland, CA, also referenced to SPCS(1983).
 Onshore elevations and contours are in feet and are referenced to NGVD(1929).

RECEIVED
 JAN 09 1995
 PARKLAND DESIGN

ECKLEY

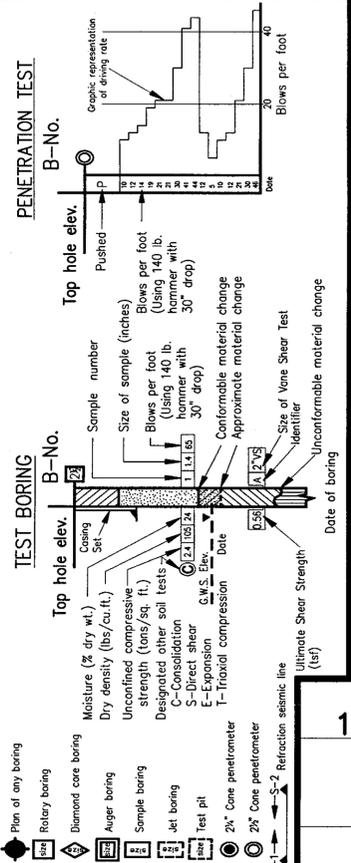
Survey performed for:
 Charles I. Raww, Consulting Engineers
 1505 Ortega Drive
 Martinez, CA 94553

ECKLEY PIER HYDROGRAPHIC SURVEY

Sea Surveyor, Inc.
 Precision Marine Surveying
 Benicia, California 94510
 (707) 746-1853

ECKLEY PIER		
HYDROGRAPHIC SURVEY		
SCALE: HORIZ. 1" = 50'	DATE: 15 DEC. 1994	JOB NO.
SURVEY:		
DESIGN:		
DRAWN:		
CHECKED:		
SCALE: 1" = 50' 		
SHEET 1 OF 1		

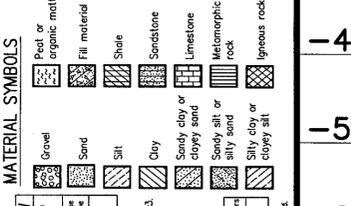
LEGEND OF BORING OPERATIONS



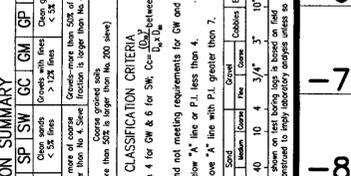
CONSISTENCY CLASSIFICATION FOR SOILS

Mo. of blows	Consistency	Penetration Test
0-5	Very loose	Very soft
6-10	Loose	Soft
11-20	Semicompact	Stiff
21-35	Compact	Very stiff
36-70	Dense	Hard
> 70	Very dense	Very hard

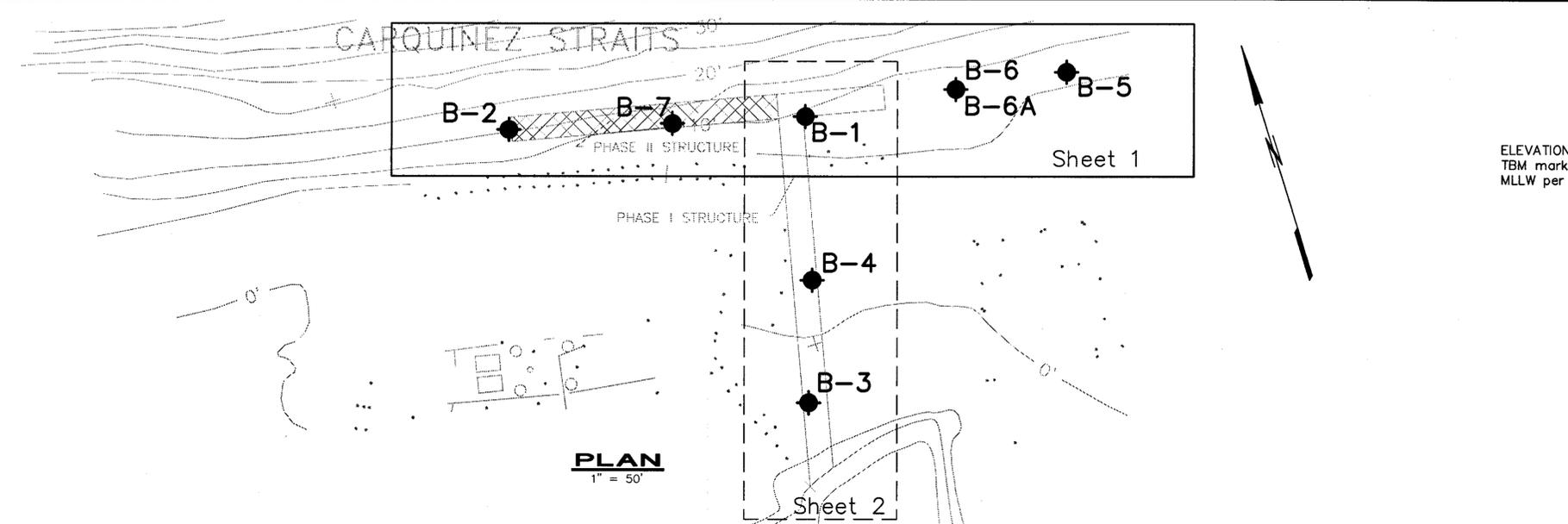
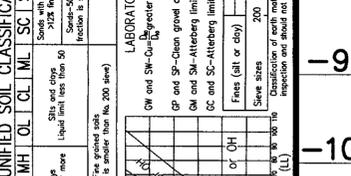
MATERIAL SYMBOLS



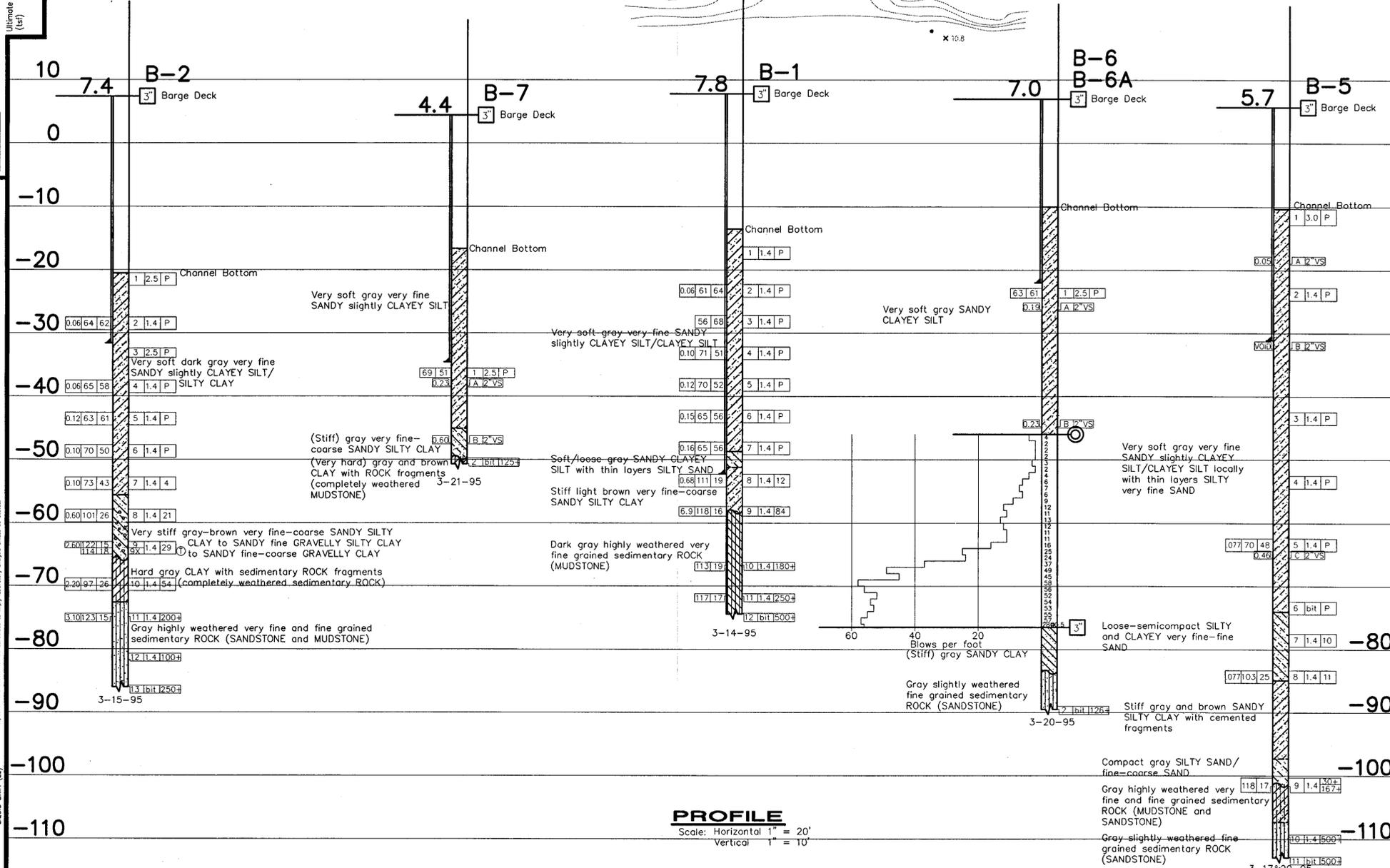
UNIFIED SOIL CLASSIFICATION SUMMARY



LABORATORY CLASSIFICATION CRITERIA



ELEVATION REFERENCE:
TBM marked on existing pile ---Elev. +7.8
MLLW per Charles I. Raw Consulting Engineers



PROFILE
Scale: Horizontal 1" = 20'
Vertical 1" = 10'



LOCATION: 38122-A2 298N:217W

Taber Taber Consultants Engineers and Geologists
536 Galveston Street
West Sacramento, CA 95691
(916) 371-1690 Fax (916) 371-7265

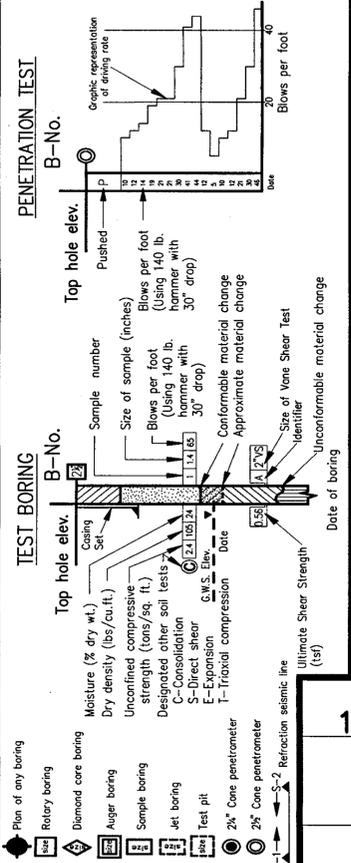
APPROVED: *Kary D. Avey*
License No. CE 43575 Exp. 12-31-96

Charles I. Raw Consulting Engineers
Public Access and Fishing Pier
Carquinez Strait Regional Shoreline
Eckley, California

LOG OF TEST BORINGS

Scale: As Shown Date: April 1995 By: M.D.R. Sheet 1 of 2
Check By: T.A.K.

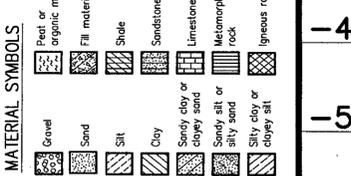
LEGEND OF BORING OPERATIONS



CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test	
0-5	Very loose
6-10	Loose
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36-70	Dense
> 70	Very dense

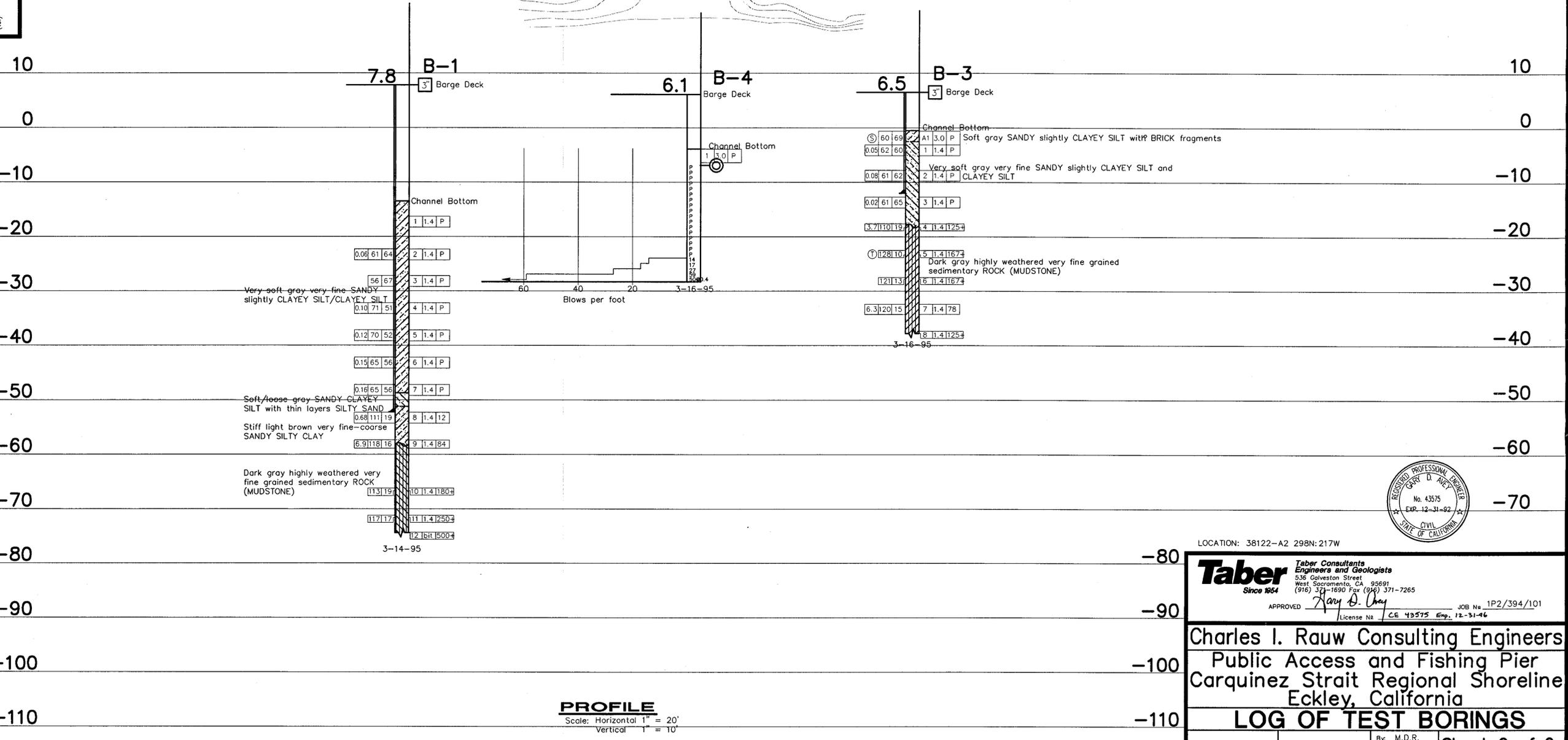
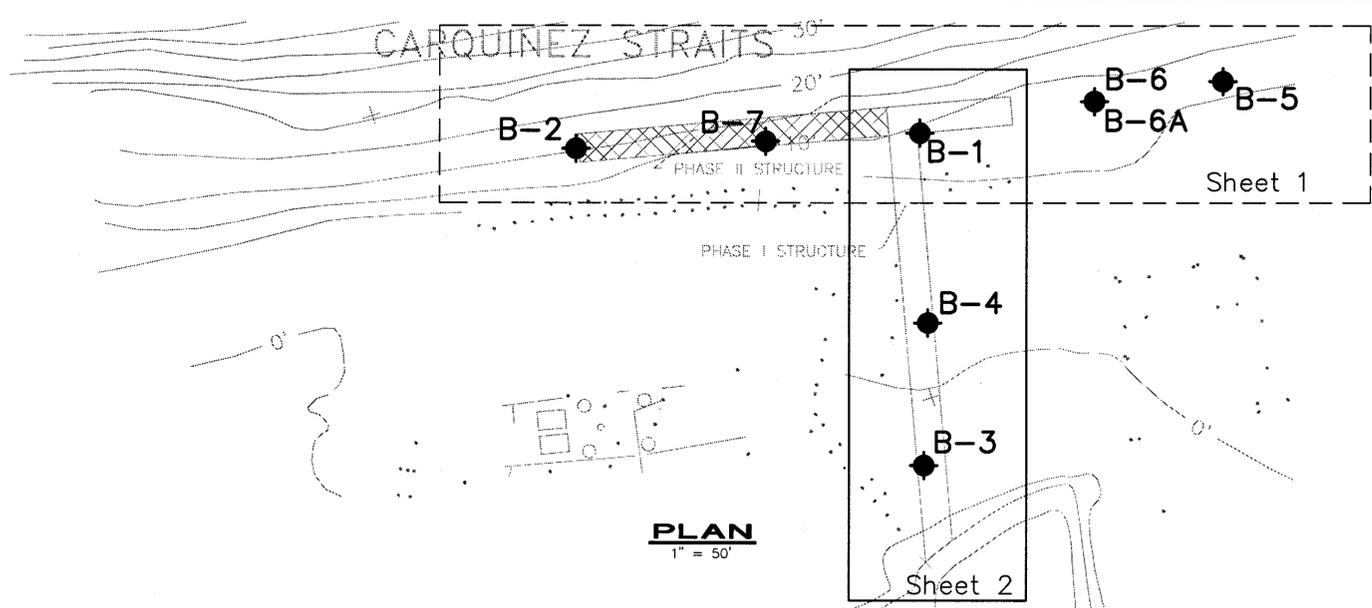
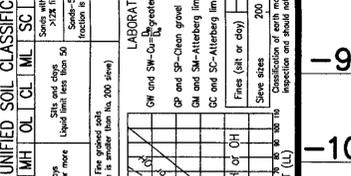
MATERIAL SYMBOLS



UNIFIED SOIL CLASSIFICATION SUMMARY

PT	OH	CH	MH	OL	CL	ML	SC	SM	SP	SW	GC	GM	GP	GW
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

LABORATORY CLASSIFICATION CRITERIA



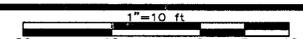
ELEVATION REFERENCE:
TBM marked on existing pile ---Elev. +7.8
MLLW per Charles I. Raw Consulting Engineers



LOCATION: 38122-A2 298N:217W
Taber *Taber Consultants Engineers and Geologists*
536 Galveston Street
West Sacramento, CA 95691
(916) 371-1690 Fax (916) 371-7265
APPROVED *Gary D. Gray* JOB No. 1P2/394/101
License No. CE 43575 Exp. 12-31-96

Charles I. Raw Consulting Engineers
Public Access and Fishing Pier
Carquinez Strait Regional Shoreline
Eckley, California
LOG OF TEST BORINGS
Scale: As Shown Date: April 1995 By: M.D.R. Sheet 2 of 2
Check By: T.A.K.

PROFILE
Scale: Horizontal 1" = 20'
Vertical 1" = 10'

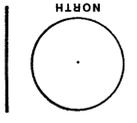




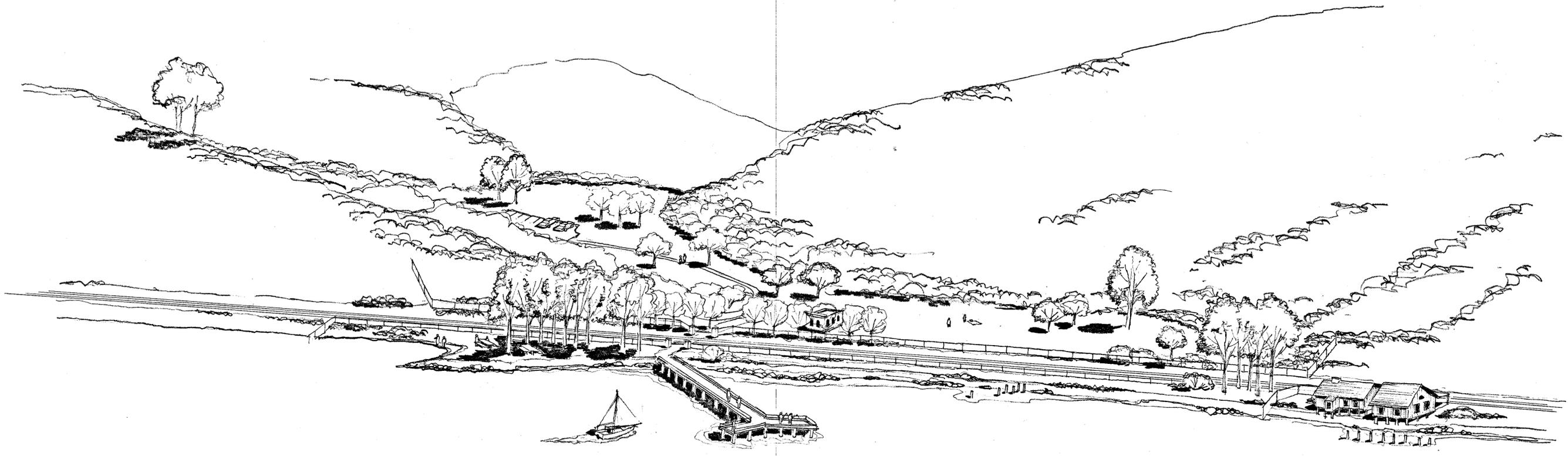
EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CALIF. 94605
510/635-0135

APPROVED
design:
operations:

scale:
drawn:
checked:
date:



SHEET NO.
OF
NO.



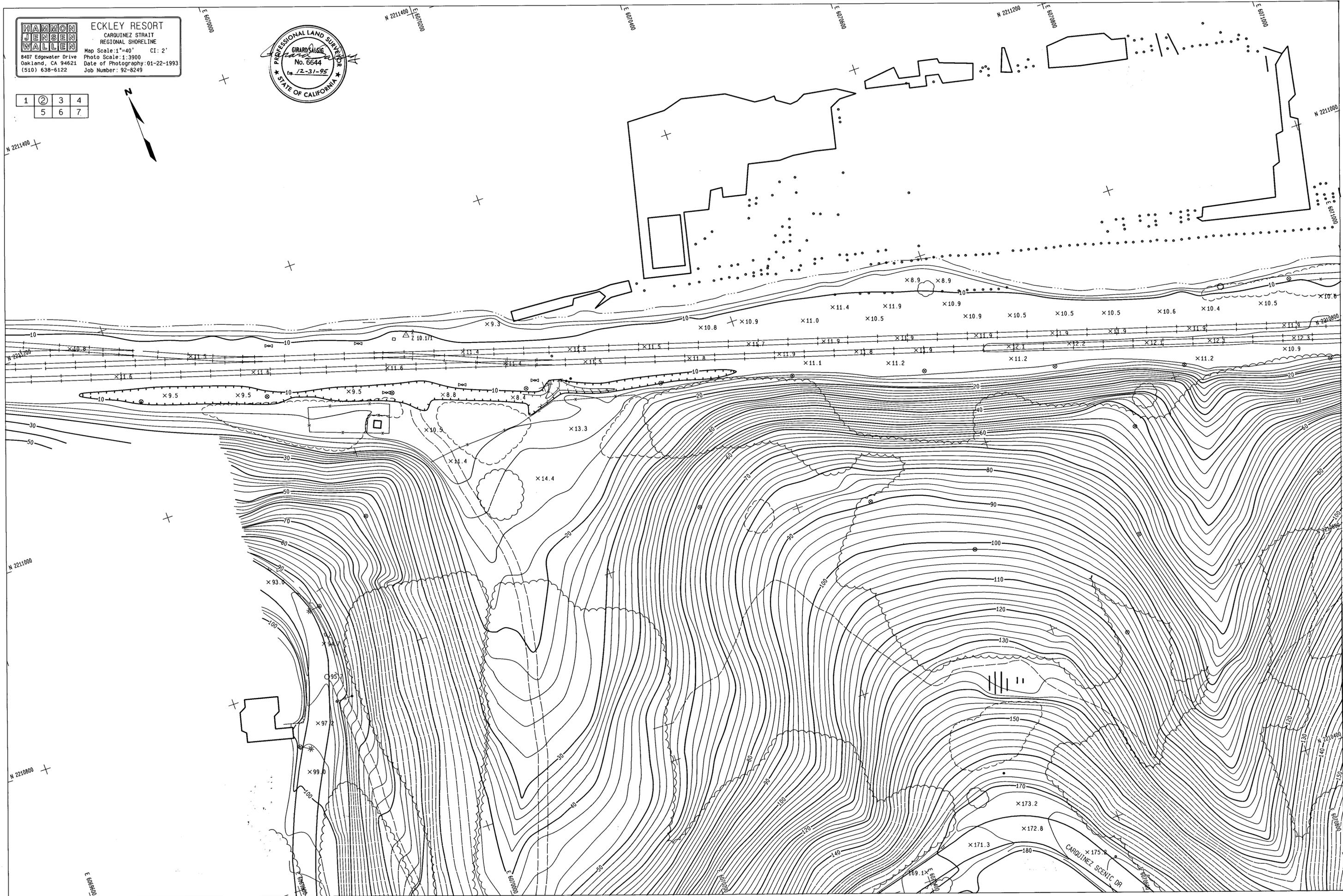
HAMMON
JENSEN
WALLEN

ECKLEY RESORT
CARQUINEZ STRAIT
REGIONAL SHORELINE

Map Scale: 1"=40' CI: 2'
8407 Edgewater Drive Photo Scale: 1:3900
Oakland, CA 94621 Date of Photography: 01-22-1993
(510) 638-6122 Job Number: 92-8249



1	2	3	4
5	6	7	



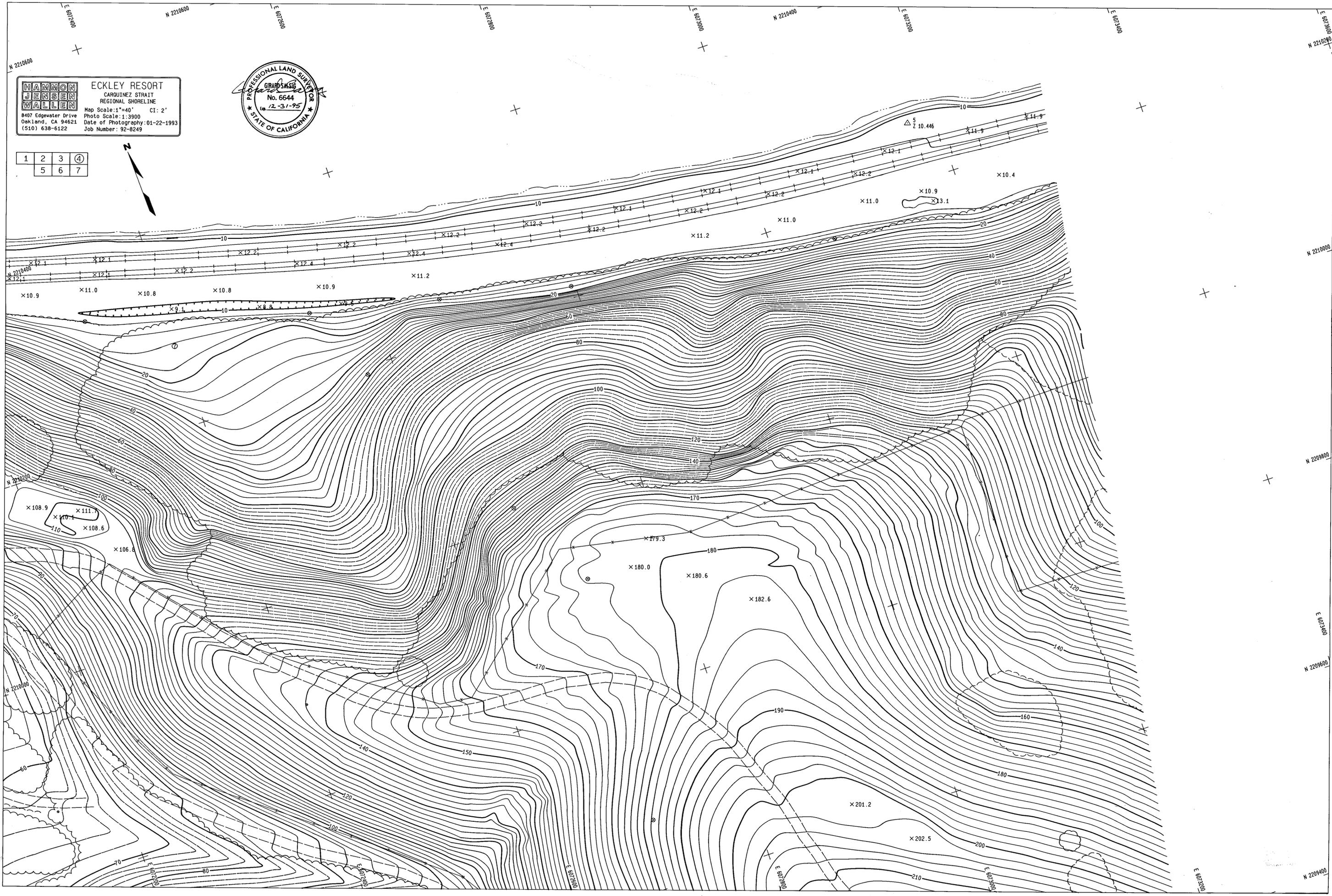
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JENSEN
WALLEN

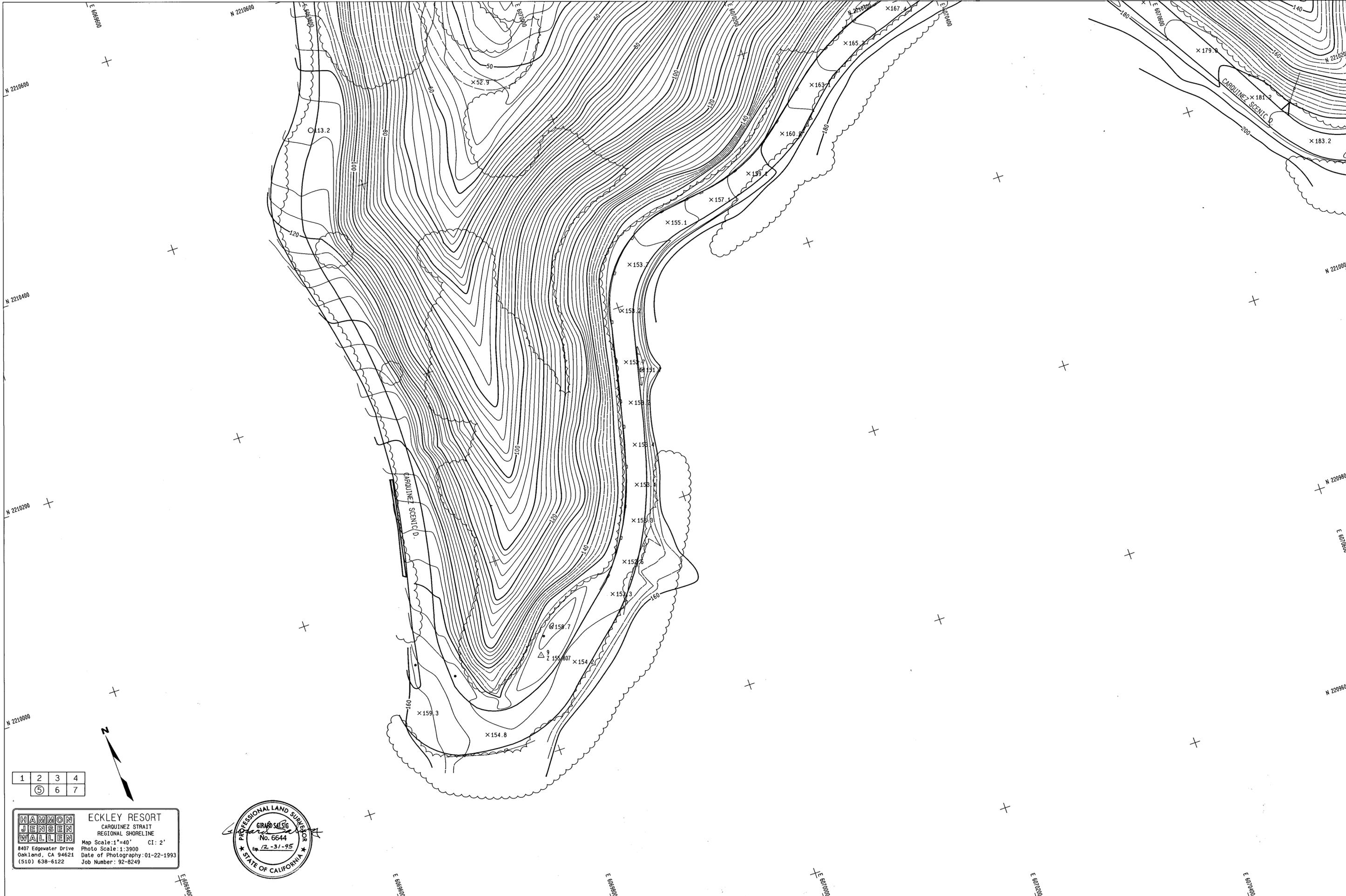
ECKLEY RESORT
CARQUINEZ STRAIT
REGIONAL SHORELINE

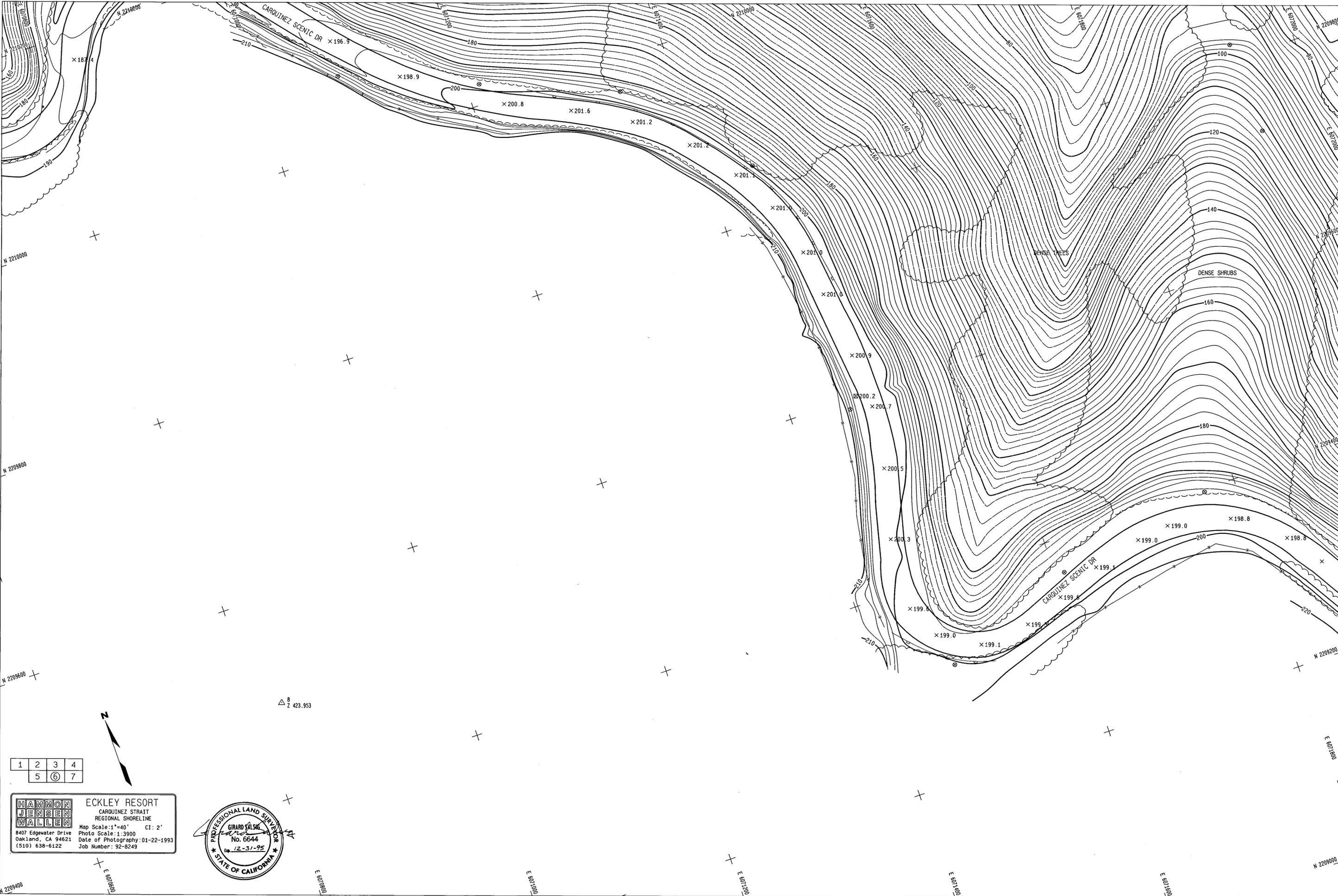
Map Scale: 1"=40' CI: 2'
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1	2	3	④
5	6	7	







1	2	3	4
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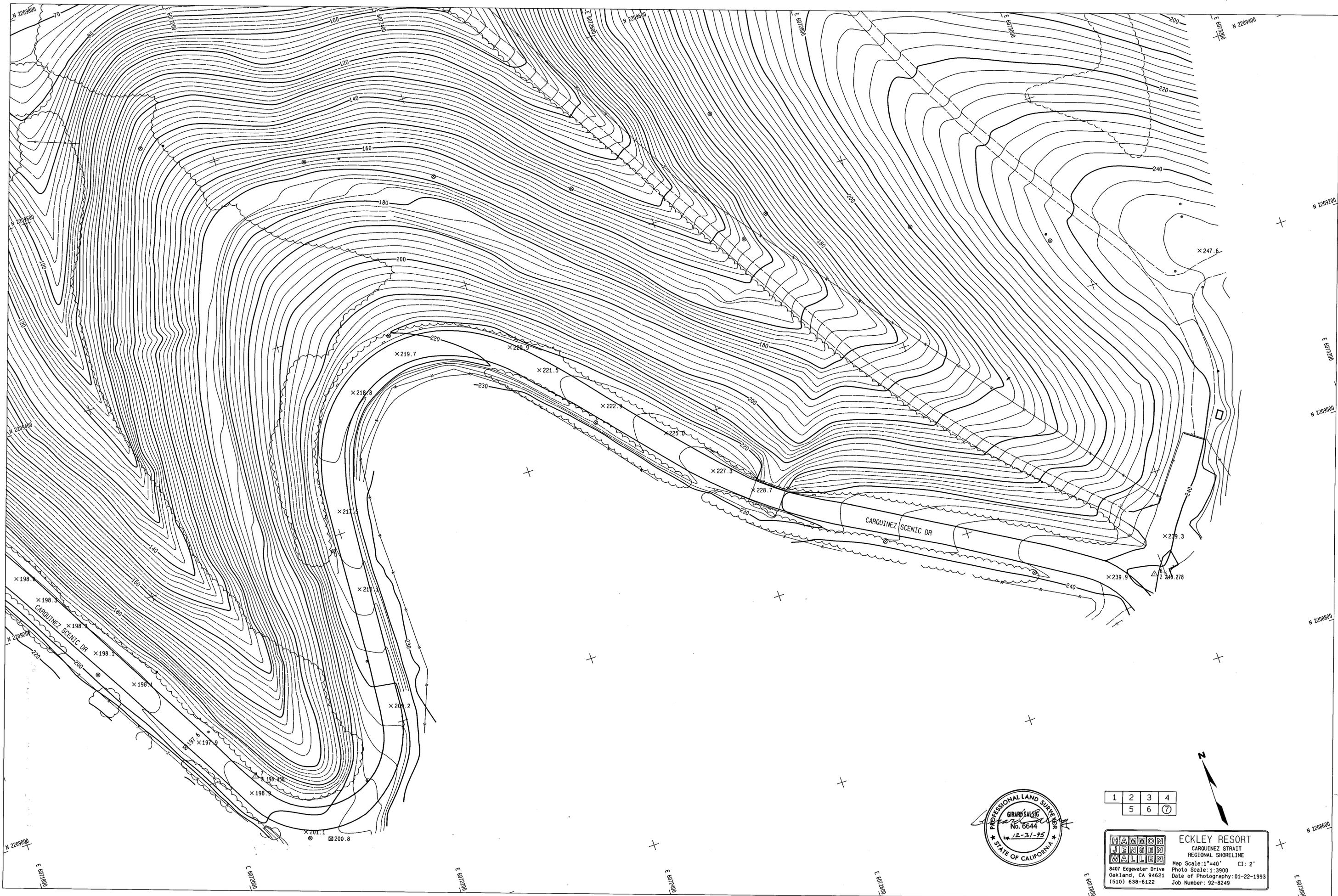
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8407 Edgewater Drive
Oakland, CA 94621
(510) 638-6122





1	2	3	4
5	6	7	

HAMMON JENSEN WALLEN ECKLEY RESORT
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 8407 Edgewater Drive Oakland, CA 94621 Date of Photography: 01-22-1993
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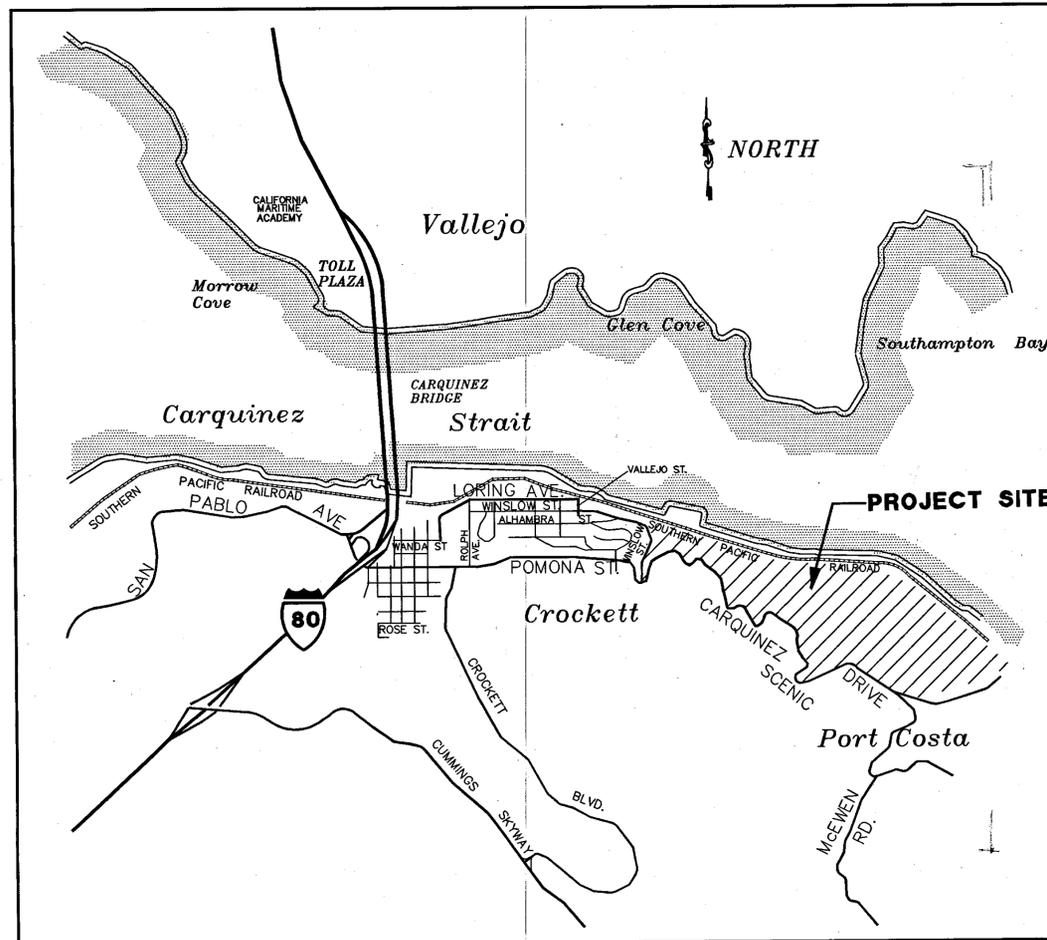
ECKLEY INLAND IMPROVEMENTS CARQUINEZ STRAIT REGIONAL SHORELINE

CONTRA COSTA COUNTY, CALIFORNIA

SHEET INDEX

LEGEND

A.B.	AGGREGATE BASE
APPROX.	APPROXIMATE
A.C.	ASPHALTIC CONCRETE
⊙	AT
⊕	CENTERLINE
LOL	LAYOUT LINE
CONC.	CONCRETE
CONSTR.	CONSTRUCTION
D.F.	DOUGLAS FIR
C/L	CENTERLINE
∅	DIAMETER
DIA.	DIAMETER
DETAIL NO. → 1	DETAIL DRAWING DESIGNATION
SHEET NO. → 9	
EA	EACH
EXIST.	EXISTING
GALV.	GALVANIZED
H.P.	HIGH POINT
INV.	INVERT
FG 238.40	PROPOSED FINISH GRADE
TC 220.50	PROPOSED TOP OF CURB
EP 220.00	PROPOSED EDGE OF PAVING ELEVATION
L.F.	LINEAL FEET
L.P.	LOW POINT
MAX.	MAXIMUM
M.H.	MANHOLE
MIN.	MINIMUM
N.I.C.	NOT IN CONTRACT
O.C.	ON CENTER
R	RADIUS
SCHD.	SCHEDULE
SD	STORM DRAIN
SHT.	SHEET
U.O.N.	UNLESS OTHERWISE NOTED
W/	WITH
	PROPOSED AC PAVING
X-X-X-X	PROPOSED TENSILE WIRE FENCE
-□-□-□-□-	PROPOSED ONE RAIL FENCE
-□-□-□-□-	EXISTING ONE RAIL FENCE
X-X-X-X	EXISTING BARBED WIRE FENCE
PRC	POINT OF REVERSE CURVE
PCC	POINT OF COMPOUND CURVE
PC	BEGINNING OF CURVE (POINT OF CURVATURE)
PT	END OF CURVE (POINT OF TANGENCY)
PVI	POINT OF VERTICAL INTERSECTION
BVC	BEGINNING OF VERTICAL CURVE
EVC	END OF VERTICAL CURVE
PVCC	POINT OF COMPOUND VERTICAL CURVATURE
(C1)	CURVE DATA INDEX NUMBER
(L1)	LINE DATA INDEX NUMBER
PA	PLANTING AREA
C.O.	CLEAN OUT
C.I.P.	CAST IRON PIPE



LOCATION MAP

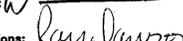
NOT TO SCALE

SHEET NO.	DESCRIPTION
1	COVER SHEET, LOCATION MAP, AND LEGEND
2	INDEX MAP AND SURVEY CONTROL DATA
3	ROAD PAVING SECTIONS (CSTA. 1+00.00A TO STA. 18+31.89A)
4	ROAD AND UTILITY LAYOUT (CSTA. 1+00.00A TO STA. 11+50.00A)
5	ROAD AND UTILITY LAYOUT (CSTA. 11+50.00A TO STA. 18+31.89A)
6	GRADING AND DRAINAGE PLAN (CSTA. 1+00.00A TO STA. 11+75.00A)
7	GRADING AND DRAINAGE PLAN (CSTA. 11+75.00A TO STA. 18+31.89A)
8	PROFILE- (CSTA. 1+00.00A TO STA. 7+50.00A)
9	PROFILE- (CSTA. 7+50A TO 13+00A)
10	PROFILE- (CSTA. 13+00A TO 18+31.89A)
11	ACCESS ROAD CROSS SECTIONS (CSTA. 1+00.00A TO STA. 3+50.00A)
12	ACCESS ROAD CROSS SECTIONS (CSTA. 4+00.00A TO STA. 5+50.00A)
13	ACCESS ROAD CROSS SECTIONS (CSTA. 6+00.00A TO STA. 8+50.00A)
14	ACCESS ROAD CROSS SECTIONS (CSTA. 9+00.00A TO STA. 12+50.00A)
15	ACCESS ROAD CROSS SECTIONS (CSTA. 13+00.00A TO STA. 16+00.00A)
16	ACCESS ROAD CROSS SECTIONS (CSTA. 16+50.00A TO STA. 18+00.00A)
17	TYPICAL PAVING SECTIONS
18	PLAN AND PROFILE- ACCESS ROAD (CSTA. 13+50.00 TO STA. 19+61.90)
19	PLAN AND PROFILE- ACCESS ROAD (CSTA. 19+61.90 TO STA. 24+86.84)
20	SITE LAYOUT PLAN (AT LANDSCAPED AREA)
21	GRADING PLAN (AT LANDSCAPED AREA)
22	SANITARY SEWER PROFILE/DETAIL
23	ACCESS ROAD CROSS SECTIONS (CSTA. 13+50.00 TO STA. 15+25.00)
24	ACCESS ROAD CROSS SECTIONS- (CSTA. 15+50.00 TO STA. 18+04.32)
25	ACCESS ROAD CROSS SECTIONS- (CSTA. 18+25.00 TO STA. 19+73.84)
26	ACCESS ROAD CROSS SECTIONS- (CSTA. 20+32.70 TO STA. 22+25.00)
27	ACCESS ROAD CROSS SECTIONS- (CSTA. 22+50.00 TO STA. 24+86.84)
28	CONSTRUCTION DETAILS
29	CONSTRUCTION DETAILS
30	CONSTRUCTION DETAILS
31	CONSTRUCTION DETAILS
32	CONSTRUCTION DETAILS
33	CONSTRUCTION DETAILS
34	LANDSCAPE LAYOUT
35	IRRIGATION/WATER SERVICE
36	PLANTING PLAN
37	TREE DEMOLITION PLAN
38	ACCESSIBLE TOILET STRUCTURE
39	STANDARD TOILET STRUCTURE
40	ELECTRICAL/TELEPHONE
41	DETAILS
42	DETAILS
43	DETAILS
44	DETAILS
45	DETAILS

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: 
operations: 

scale: AS SHOWN
drawn: JM
checked:
date: 6-27-96

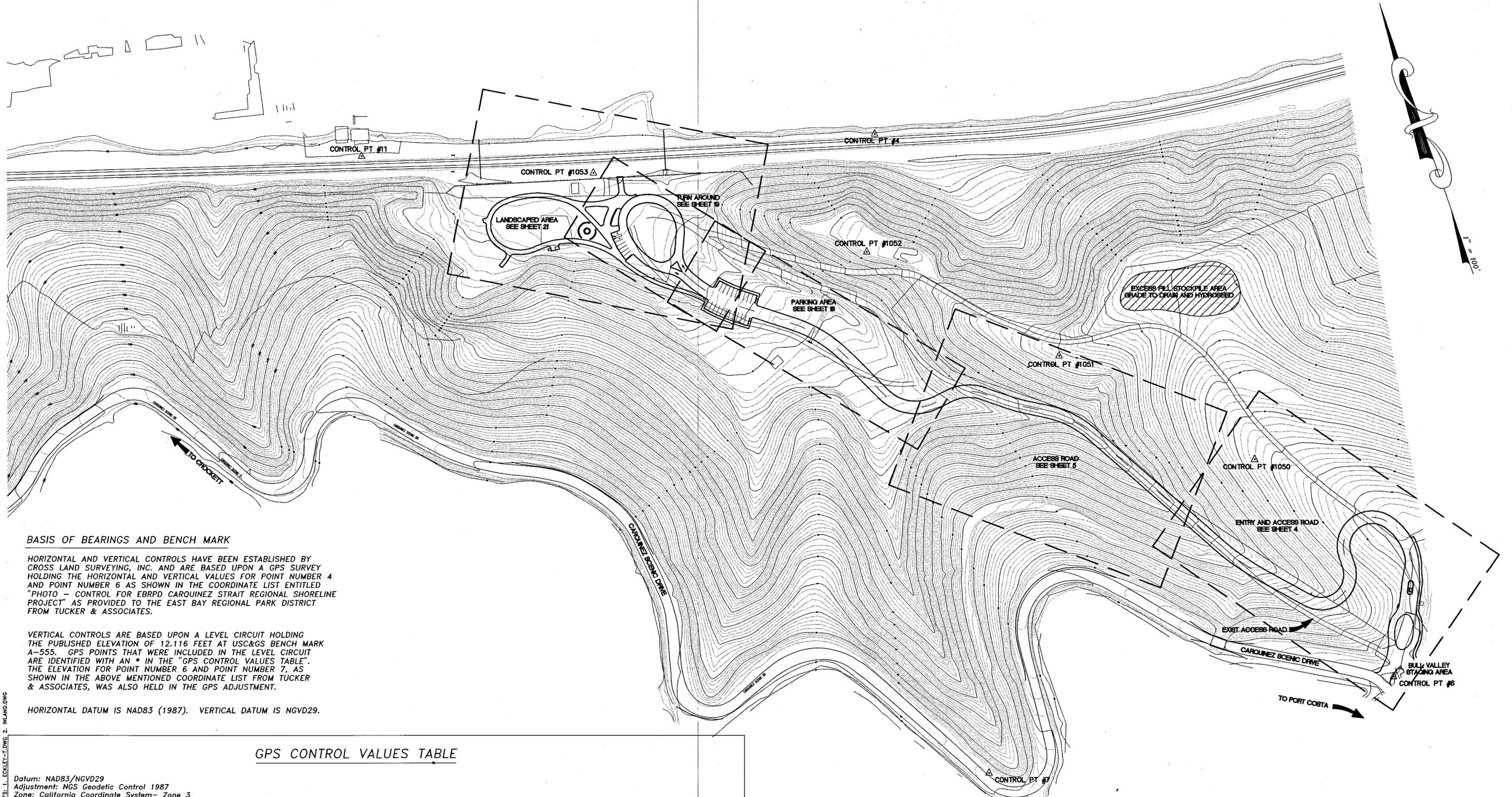


COVER SHEET
INLAND IMPROVEMENTS PLAN
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CA

SHEET NO.
1
OF: 45

PROJECT NO. 665A

CONTRACT NO. 15-96-09



BASIS OF BEARINGS AND BENCH MARK

HORIZONTAL AND VERTICAL CONTROLS HAVE BEEN ESTABLISHED BY CROSS LAND SURVEYING, INC. AND ARE BASED UPON A GPS SURVEY HOLDING THE HORIZONTAL AND VERTICAL VALUES FOR POINT NUMBER 4 AND POINT NUMBER 6 AS SHOWN IN THE COORDINATE LIST ENTITLED "PHOTO - CONTROL FOR EBRPD CARQUINEZ STRAIT REGIONAL SHORELINE PROJECT" AS PROVIDED TO THE EAST BAY REGIONAL PARK DISTRICT FROM TUCKER & ASSOCIATES.

VERTICAL CONTROLS ARE BASED UPON A LEVEL CIRCUIT HOLDING THE PUBLISHED ELEVATION OF 12.116 FEET AT USC&GS BENCH MARK A-555. GPS POINTS THAT WERE INCLUDED IN THE LEVEL CIRCUIT ARE IDENTIFIED WITH AN * IN THE "GPS CONTROL VALUES TABLE". THE ELEVATION FOR POINT NUMBER 6 AND POINT NUMBER 7, AS SHOWN IN THE ABOVE MENTIONED COORDINATE LIST FROM TUCKER & ASSOCIATES, WAS ALSO HELD IN THE GPS ADJUSTMENT.

HORIZONTAL DATUM IS NAD83 (1987). VERTICAL DATUM IS NGVD29.

GPS CONTROL VALUES TABLE

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 Adjustment: NGS Geodetic Control 1987
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NOTES:

- CONTROL POINTS SHOWN ON THIS PLAN WERE TAKEN FROM THE PLAN PREPARED BY CROSS LAND SURVEYING, INC. ENTITLED "GPS CONTROL DIAGRAM OF THE CARQUINEZ STRAIT REGIONAL SHORELINE - ECKLEY AREA", DATED AUGUST, 1995.
- THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL SURVEY CONTROL POINTS AT ALL TIMES DURING THE COURSE OF THE CONSTRUCTION.
- ANY DAMAGED OR LOST SURVEY CONTROL POINTS SHALL BE REPLACED BY A LICENSED LAND SURVEYOR ACCEPTABLE TO THE E.B.R.P.D. AT THE CONTRACTOR'S SOLE EXPENSE, AND SHALL NOTIFY E.B.R.P.D. SURVEY SECTION OF THE LOCATION AND ELEVATION OF THE REPLACED POINTS.

C:\PROJECTS\ECKLEY\INLAND\02.DWG XREFS: 1. ECKLEY-T.DWG 2. INLAND.DWG

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED

design: *[Signature]*

operations: *Ray Dawson*

scale: 1"=100'

drawn: JOB

checked: ML

date: 6-27-96

INDEX MAP AND SURVEY CONTROL DATA
 INLAND IMPROVEMENT PLANS

ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CALIFORNIA

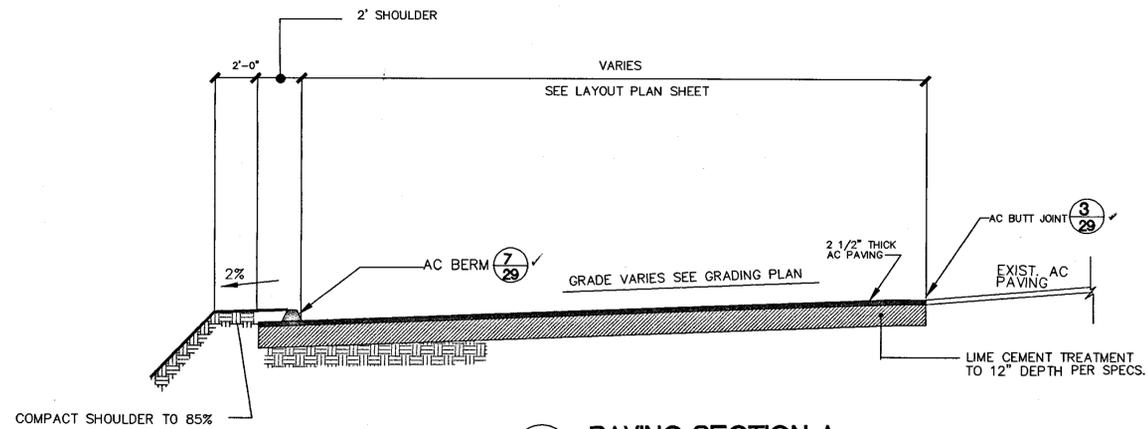
PROJECT NO. 695A

CONTRACT NO. 15-96-69

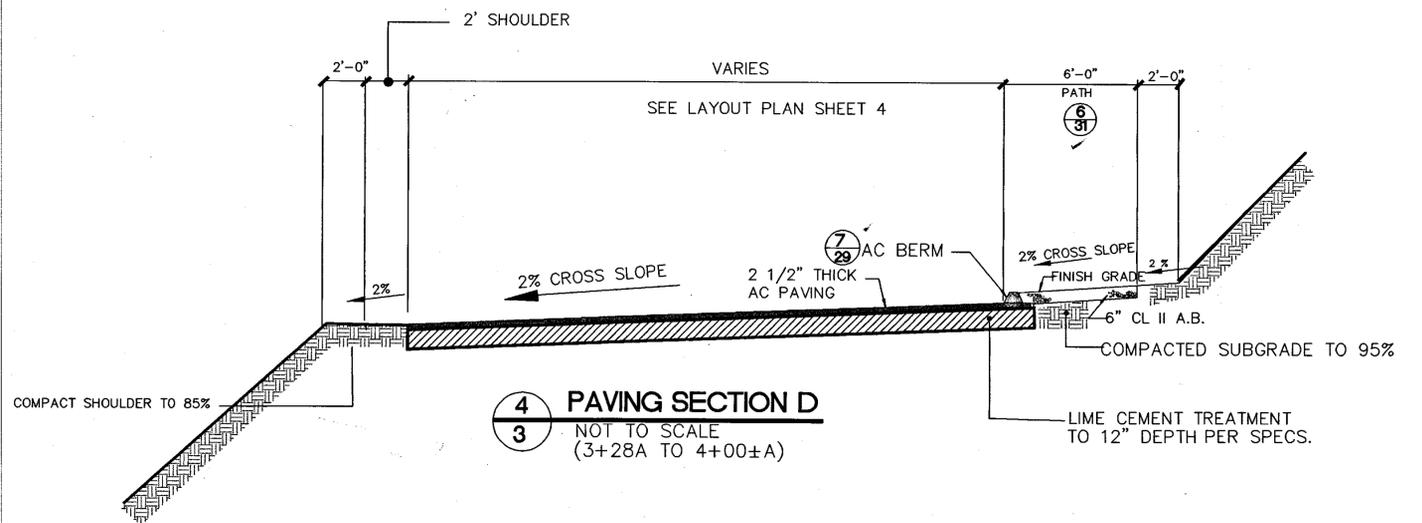
SHEET NO.

2

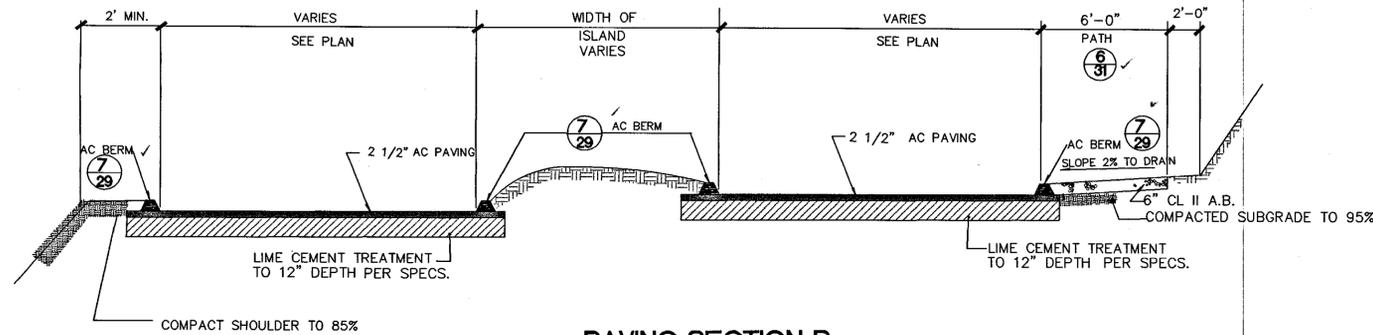
OF 45



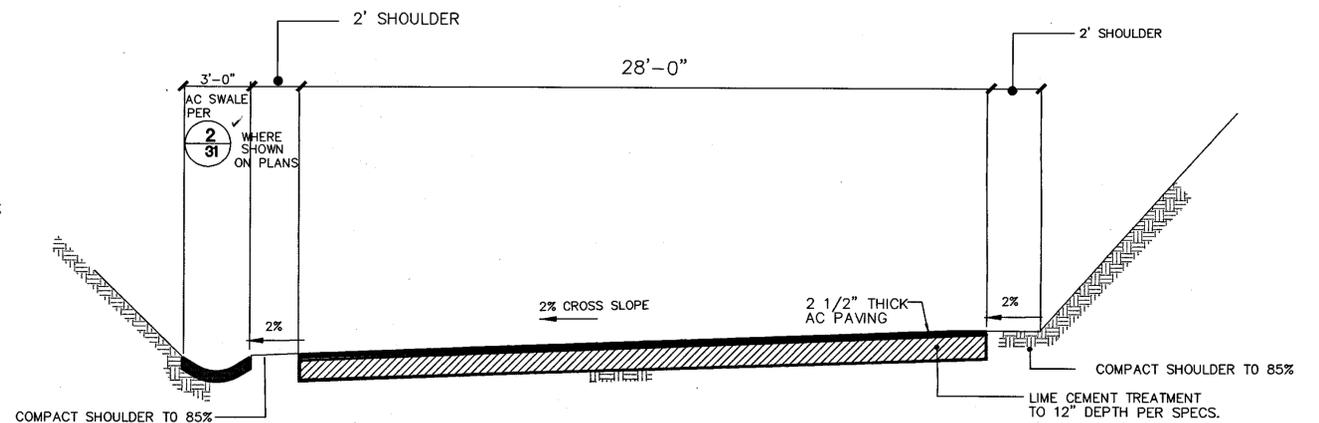
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 (1+00A TO 1+80A)



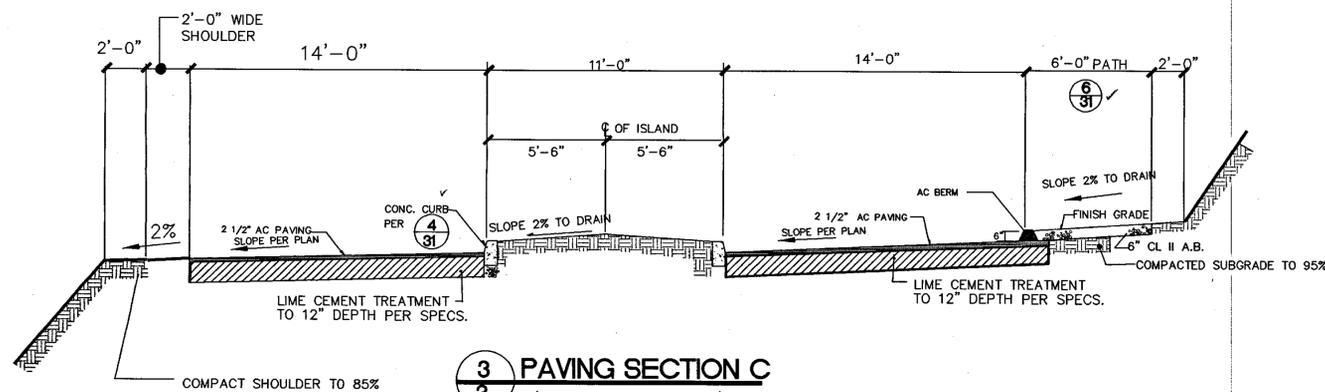
4 PAVING SECTION D
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 (3+28A TO 4+00±A)



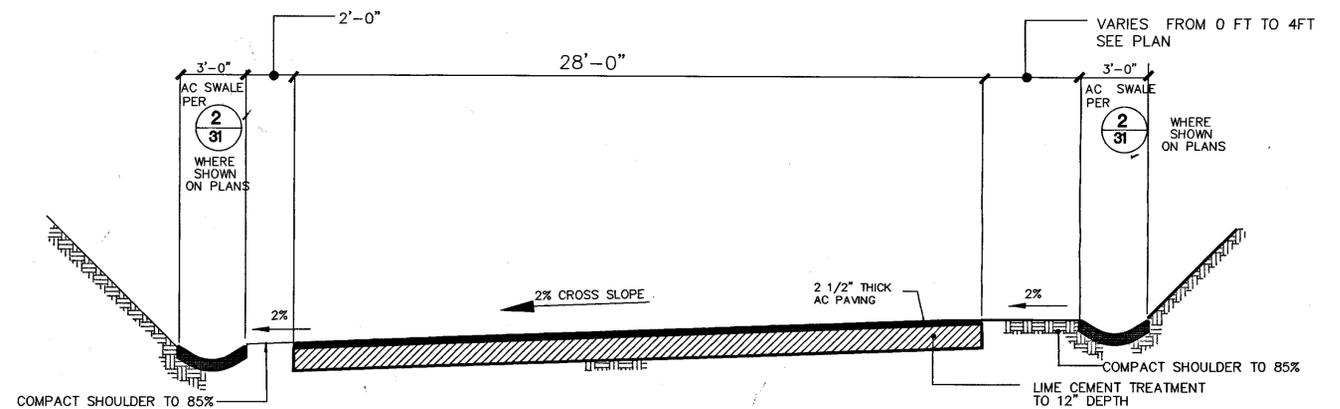
2 PAVING SECTION B
3 (1+80A TO 2+50A)
 NOT TO SCALE



5 PAVING SECTION E
3 (4+00A TO 8+18A)
 NOT TO SCALE



3 PAVING SECTION C
3 (2+98A TO 3+28A)
 NOT TO SCALE



6 PAVING SECTION F
3 (8+18A TO 18+31.89A)
 NOT TO SCALE



EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605
 510/635-0135

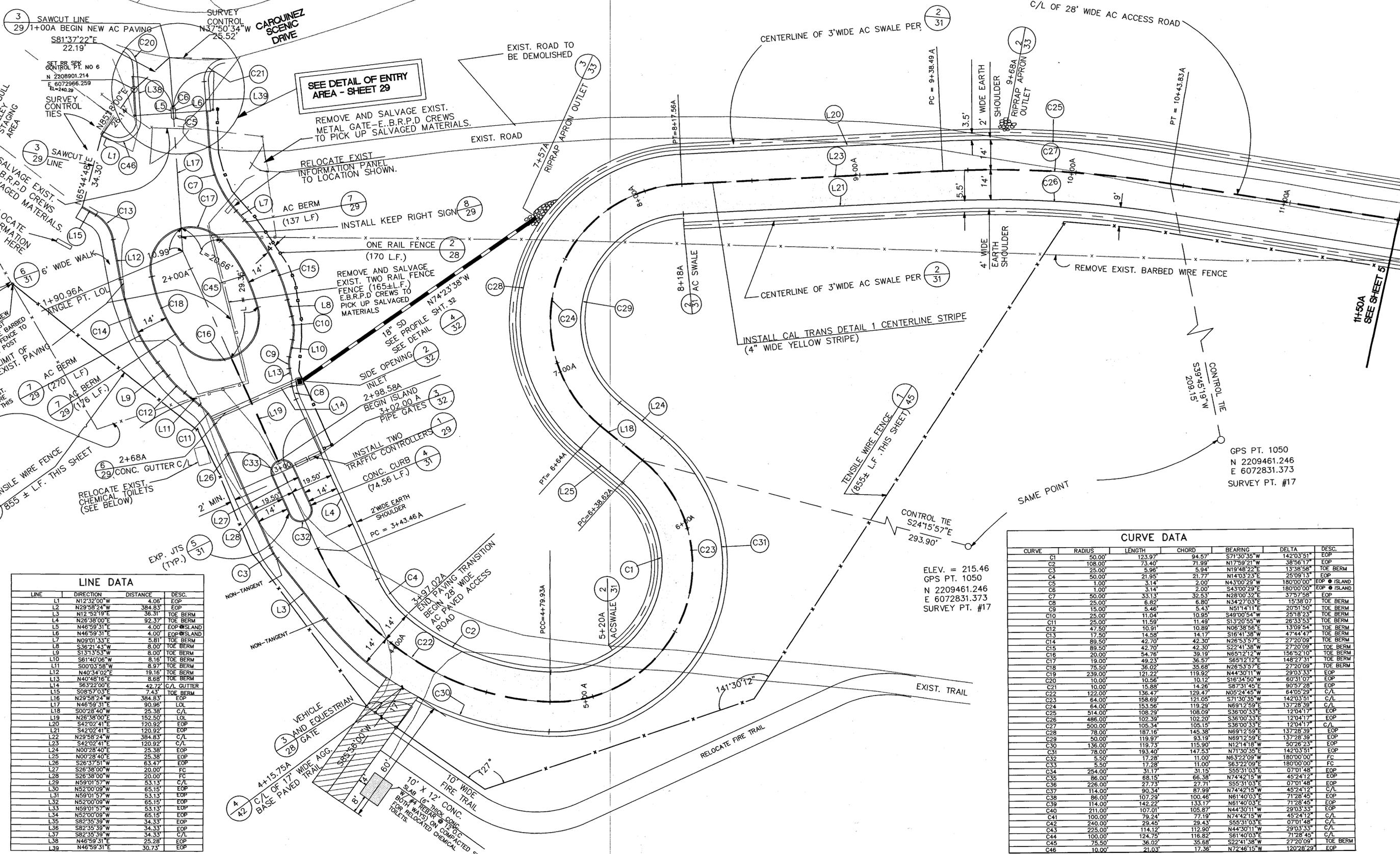
APPROVED
 design
 operations *Ray Lawson*

C:\PROJECTS\ECKLEY\PAVSEC1.DWG

scale AS SHOWN
 drawn JM
 checked
 date 6-27-96

PAVING SECTIONS-STA. 1+00A TO 18+31.89A
 INLAND IMPROVEMENTS PLAN
 ECKLEY
 CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CA
 PROJECT NO. 055A CONTRACT NO. 15-96-00

SHEET NO.
3
 OF 45



LINE DATA

LINE	DIRECTION	DISTANCE	DESC.
L1	N123°00'W	4.06'	EOP
L2	N29°58'24"W	384.83'	EOP
L3	N12°52'19"E	36.31'	TOE BERM
L4	N26°38'00"E	92.37'	TOE BERM
L5	N46°59'31"E	4.00'	EOP ISLAND
L6	N46°59'31"E	4.00'	EOP ISLAND
L7	N09°01'33"E	5.81'	TOE BERM
L8	S36°21'43"W	8.00'	TOE BERM
L9	S13°13'53"W	8.00'	TOE BERM
L10	S61°40'06"W	8.16'	TOE BERM
L11	S00°03'58"W	8.37'	TOE BERM
L12	N40°34'02"E	19.16'	TOE BERM
L13	N40°48'16"E	8.68'	TOE BERM
L14	S63°22'00"E	42.72'	C/L GUTTER
L15	S08°57'03"E	7.43'	TOE BERM
L16	N29°58'24"W	384.83'	EOP
L17	N46°59'31"E	90.96'	LOL
L18	S00°28'40"W	25.38'	C/L
L19	N26°38'00"E	152.50'	LOL
L20	S42°02'41"E	120.92'	EOP
L21	S42°02'41"E	120.92'	EOP
L22	N29°58'24"W	384.83'	C/L
L23	S42°02'41"E	120.92'	C/L
L24	N00°28'40"E	25.38'	EOP
L25	N00°28'40"E	25.38'	EOP
L26	S26°37'51"W	63.47'	EOP
L27	S26°38'00"W	20.00'	FC
L28	S26°38'00"W	20.00'	FC
L29	N59°01'57"W	53.13'	C/L
L30	N52°00'09"W	65.15'	EOP
L31	N59°01'57"W	53.13'	EOP
L32	N52°00'09"W	65.15'	EOP
L33	N59°01'57"W	53.13'	EOP
L34	N52°00'09"W	65.15'	EOP
L35	S82°35'39"W	34.33'	EOP
L36	S82°35'39"W	34.33'	EOP
L37	S82°35'39"W	34.33'	C/L
L38	N46°59'31"E	25.28'	EOP
L39	N46°59'31"E	30.73'	EOP

CURVE DATA

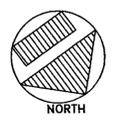
CURVE	RADIUS	LENGTH	CHORD	BEARING	DELTA	DESC.
C1	50.00'	123.97'	94.57'	S71°30'35"W	142°03'51"	EOP
C2	108.00'	73.40'	71.99'	N17°59'21"W	38°56'17"	EOP
C3	25.00'	5.96'	5.94'	N19°48'22"E	13°38'58"	TOE BERM
C4	50.00'	21.95'	21.77'	N14°03'23"E	25°08'13"	EOP
C5	1.00'	3.14'	2.00'	N43°00'29"W	180°00'00"	EOP ISLAND
C6	1.00'	3.14'	2.00'	S43°00'29"E	180°00'00"	EOP ISLAND
C7	50.00'	33.13'	32.53'	N28°00'32"E	37°57'58"	EOP
C8	25.00'	6.82'	6.80'	N34°27'03"E	15°38'07"	TOE BERM
C9	15.00'	5.46'	5.43'	N51°14'11"E	20°51'50"	TOE BERM
C10	25.00'	11.04'	10.95'	S48°00'54"W	25°18'23"	TOE BERM
C11	25.00'	11.59'	11.49'	S13°20'55"W	26°33'53"	TOE BERM
C12	47.50'	10.91'	10.89'	N06°38'56"E	13°09'54"	TOE BERM
C13	17.50'	14.58'	14.17'	S16°41'58"W	47°44'47"	TOE BERM
C14	89.50'	42.70'	42.30'	N28°53'57"E	27°20'09"	TOE BERM
C15	89.50'	42.70'	42.30'	S22°41'38"W	27°20'09"	TOE BERM
C16	20.00'	54.76'	39.19'	N65°12'12"W	156°52'10"	TOE BERM
C17	19.00'	49.23'	36.57'	S65°12'12"E	148°27'31"	TOE BERM
C18	75.50'	36.02'	35.68'	N26°53'57"E	27°20'09"	TOE BERM
C19	239.00'	121.22'	119.92'	N44°30'11"W	29°03'33"	C/L
C20	10.00'	10.56'	10.12'	S16°34'50"W	60°31'07"	EOP
C21	10.00'	15.88'	14.26'	S87°31'46"E	90°57'28"	EOP
C22	122.00'	136.47'	129.47'	N05°24'45"W	64°05'29"	C/L
C23	84.00'	158.69'	121.05'	S71°30'35"W	142°03'51"	C/L
C24	84.00'	153.56'	119.29'	N69°12'59"E	137°28'38"	C/L
C25	514.00'	108.29'	108.09'	S36°00'33"E	12°04'17"	EOP
C26	486.00'	102.39'	102.20'	S36°00'33"E	12°04'17"	EOP
C27	500.00'	105.34'	105.15'	S36°00'33"E	12°04'17"	C/L
C28	78.00'	187.16'	145.38'	N69°12'59"E	137°28'38"	EOP
C29	50.00'	119.97'	93.19'	N69°12'59"E	137°28'38"	EOP
C30	136.00'	119.73'	115.90'	N121°41'8"W	50°26'23"	EOP
C31	78.00'	193.40'	147.53'	N71°30'36"E	142°03'51"	EOP
C32	5.50'	17.28'	11.00'	N63°22'09"W	180°00'00"	FC
C33	5.50'	17.28'	11.00'	S63°22'09"E	180°00'00"	FC
C34	254.00'	31.17'	31.15'	S55°03'11"E	07°01'48"	EOP
C35	86.00'	68.15'	66.38'	N74°42'15"W	45°24'12"	EOP
C36	226.00'	27.73'	27.71'	S55°03'11"E	07°01'48"	EOP
C37	114.00'	90.34'	87.99'	N74°42'15"W	45°24'12"	C/L
C38	86.00'	107.29'	100.46'	N61°40'03"E	71°28'45"	EOP
C39	114.00'	142.29'	133.29'	N61°40'03"E	71°28'45"	EOP
C40	211.00'	107.01'	105.87'	N44°30'11"W	29°03'33"	EOP
C41	100.00'	79.24'	77.19'	N74°42'15"W	45°24'12"	C/L
C42	240.00'	29.45'	29.43'	S55°03'11"E	07°01'48"	C/L
C43	225.00'	114.12'	112.90'	N44°30'11"W	29°03'33"	C/L
C44	100.00'	124.76'	116.92'	S61°40'03"E	71°28'45"	C/L
C45	75.50'	36.02'	35.68'	S22°41'38"W	27°20'09"	TOE BERM
C46	10.00'	21.03'	17.36'	N72°46'15"W	120°28'29"	EOP

REVISIONS

EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605
 510/635-0135

PROJECT: ECKLEY/LAY/LK/DWG
 APPROVED: [Signature]
 design: [Signature]
 operations: [Signature]

scale: 1"=20'
 drawn: JM
 checked:
 date: 6-27-96

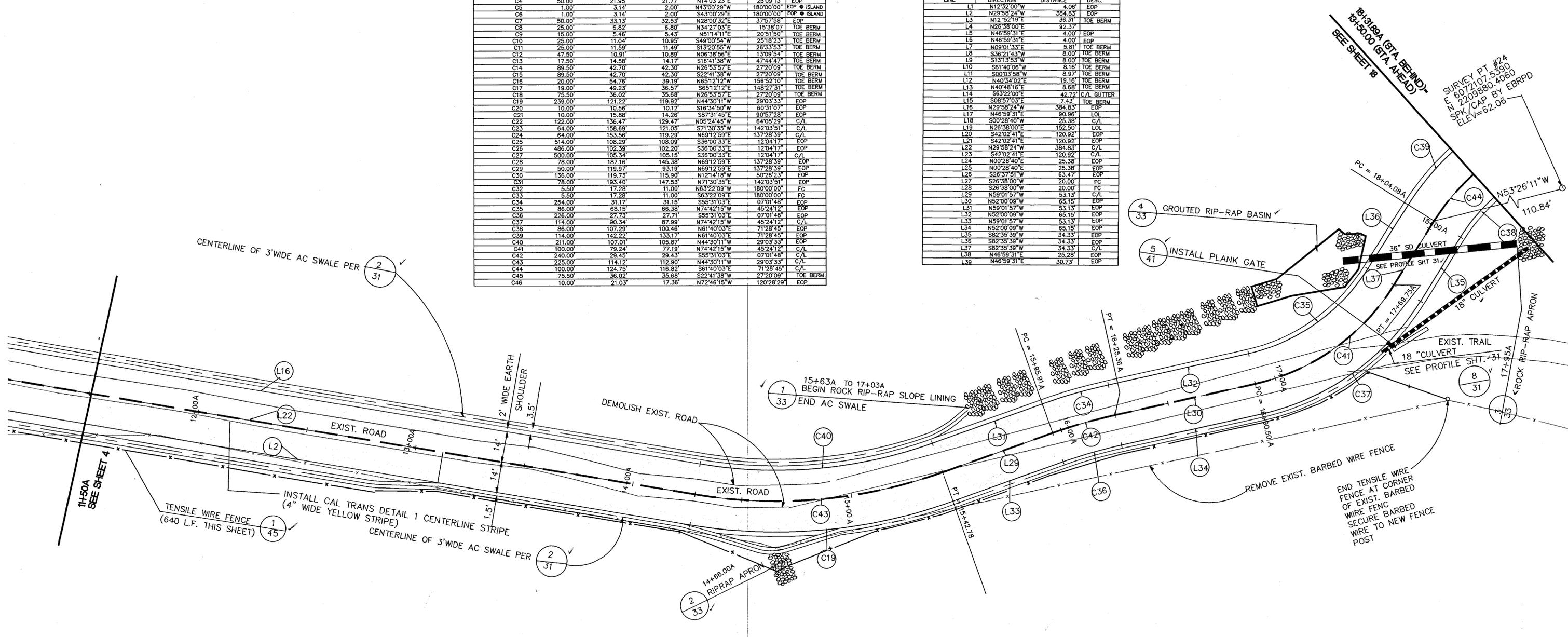


ROAD AND UTILITY LAYOUT - STA. #00A TO #1#50A
INLAND IMPROVEMENTS PLAN
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CA
 PROJECT NO. 95A CONTRACT NO. 15-96-09

SHEET NO. 4
 OF 4

CURVE	RADIUS	LENGTH	CHORD	BEARING	DELTA	DESC.
C1	50.00'	123.97'	94.57'	S71°30'35"W	142°03'51"	EOP
C2	108.00'	73.40'	71.99'	N17°59'21"W	38°56'17"	EOP
C3	25.00'	5.96'	5.94'	N19°48'22"E	13°38'58"	TOE BERM
C4	50.00'	21.95'	21.77'	N14°03'23"E	25°09'13"	EOP
C5	1.00'	3.14'	2.00'	N43°00'29"W	180°00'00"	EOP ISLAND
C6	1.00'	3.14'	2.00'	S43°00'29"E	180°00'00"	EOP ISLAND
C7	50.00'	33.13'	32.53'	N28°00'32"E	37°57'58"	EOP
C8	25.00'	6.82'	6.80'	N34°27'03"E	15°38'07"	TOE BERM
C9	15.00'	5.46'	5.43'	N51°14'11"E	20°51'50"	TOE BERM
C10	25.00'	11.04'	10.95'	S49°00'54"W	25°19'23"	TOE BERM
C11	25.00'	11.59'	11.49'	S13°20'55"W	26°33'53"	TOE BERM
C12	47.50'	10.91'	10.89'	N06°38'56"E	13°09'54"	TOE BERM
C13	17.50'	14.58'	14.17'	S16°41'38"W	47°44'47"	TOE BERM
C14	89.50'	42.70'	42.30'	N26°53'57"E	27°20'09"	TOE BERM
C15	89.50'	42.70'	42.30'	S22°41'38"W	27°20'09"	TOE BERM
C16	20.00'	54.76'	39.19'	N65°12'12"W	156°52'10"	TOE BERM
C17	19.00'	49.23'	36.57'	S65°12'12"E	148°27'31"	TOE BERM
C18	75.50'	36.02'	35.68'	N26°53'57"E	27°20'09"	TOE BERM
C19	259.00'	121.22'	119.92'	N44°30'11"W	29°03'33"	EOP
C20	10.00'	10.56'	10.12'	S16°34'50"W	60°31'07"	EOP
C21	10.00'	15.88'	14.26'	S87°31'45"E	90°57'28"	EOP
C22	122.00'	156.47'	129.47'	N05°24'45"W	64°05'29"	C/L
C23	64.00'	158.69'	121.05'	S71°30'35"W	142°03'51"	C/L
C24	64.00'	153.56'	119.29'	N69°12'59"E	137°28'39"	C/L
C25	514.00'	108.29'	108.08'	S36°00'33"E	120°41'17"	EOP
C26	486.00'	102.39'	102.20'	S36°00'33"E	120°41'17"	EOP
C27	500.00'	105.34'	105.15'	S36°00'33"E	120°41'17"	C/L
C28	78.00'	187.16'	145.38'	N69°12'59"E	137°28'39"	EOP
C29	50.00'	119.97'	93.19'	N69°12'59"E	137°28'39"	EOP
C30	136.00'	119.73'	115.90'	N12°14'18"W	50°56'23"	EOP
C31	78.00'	193.40'	147.53'	N71°30'35"E	142°03'51"	EOP
C32	5.50'	17.28'	11.00'	N63°22'09"W	180°00'00"	FC
C33	5.50'	17.28'	11.00'	S63°22'09"E	180°00'00"	FC
C34	254.00'	31.17'	31.15'	S55°31'03"E	07°01'48"	EOP
C35	86.00'	68.15'	66.38'	N74°42'15"W	45°24'12"	EOP
C36	226.00'	27.73'	27.71'	S55°31'03"E	07°01'48"	EOP
C37	114.00'	90.34'	87.99'	N74°42'15"W	45°24'12"	C/L
C38	86.00'	107.29'	100.46'	N61°40'03"E	71°28'45"	EOP
C39	114.00'	142.22'	133.17'	N61°40'03"E	71°28'45"	EOP
C40	211.00'	107.01'	105.87'	N44°30'11"W	29°03'33"	EOP
C41	100.00'	79.24'	77.19'	N74°42'15"W	45°24'12"	C/L
C42	240.00'	29.45'	29.43'	S55°31'03"E	07°01'48"	C/L
C43	225.00'	114.12'	112.90'	N44°30'11"W	29°03'33"	C/L
C44	100.00'	124.75'	116.82'	S61°40'03"E	71°28'45"	C/L
C45	75.50'	36.02'	35.68'	S22°41'38"W	27°20'09"	TOE BERM
C46	10.00'	21.03'	17.36'	N72°46'15"W	120°28'29"	EOP

LINE	DIRECTION	DISTANCE	DESC.
L1	N12°32'00"W	4.06'	EOP
L2	N29°58'24"W	384.83'	EOP
L3	N12°52'19"E	36.31'	TOE BERM
L4	N28°38'00"E	92.37'	EOP
L5	N46°59'31"E	4.00'	EOP
L6	N46°59'31"E	4.00'	EOP
L7	N08°01'33"E	5.81'	TOE BERM
L8	S36°21'43"W	8.00'	TOE BERM
L9	S13°13'53"W	8.00'	TOE BERM
L10	S61°40'06"W	8.16'	TOE BERM
L11	S00°03'58"W	8.97'	TOE BERM
L12	N40°34'02"E	19.16'	TOE BERM
L13	N40°48'16"E	8.68'	TOE BERM
L14	S63°22'00"E	42.72'	C/L GUTTER
L15	S08°57'03"E	7.43'	TOE BERM
L16	N29°58'24"W	384.83'	EOP
L17	N46°59'31"E	90.96'	LOL
L18	S00°28'40"W	25.38'	C/L
L19	N26°38'00"E	152.50'	LOL
L20	S42°02'41"E	120.92'	EOP
L21	S42°02'41"E	120.92'	EOP
L22	N29°58'24"W	384.83'	C/L
L23	S42°02'41"E	120.92'	C/L
L24	N00°28'40"E	25.38'	EOP
L25	N00°28'40"E	25.38'	EOP
L26	S26°37'51"W	63.47'	EOP
L27	S26°38'00"W	20.00'	FC
L28	S26°38'00"W	20.00'	FC
L29	N59°01'57"W	53.13'	C/L
L30	N52°00'09"W	65.15'	EOP
L31	N59°01'57"W	53.13'	EOP
L32	N52°00'09"W	65.15'	EOP
L33	N59°01'57"W	53.13'	EOP
L34	N52°00'09"W	65.15'	EOP
L35	S82°35'39"W	34.33'	EOP
L36	S82°35'39"W	34.33'	EOP
L37	S82°35'39"W	34.33'	C/L
L38	N46°59'31"E	25.28'	EOP
L39	N46°59'31"E	30.73'	EOP



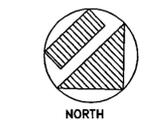
REVISIONS



EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

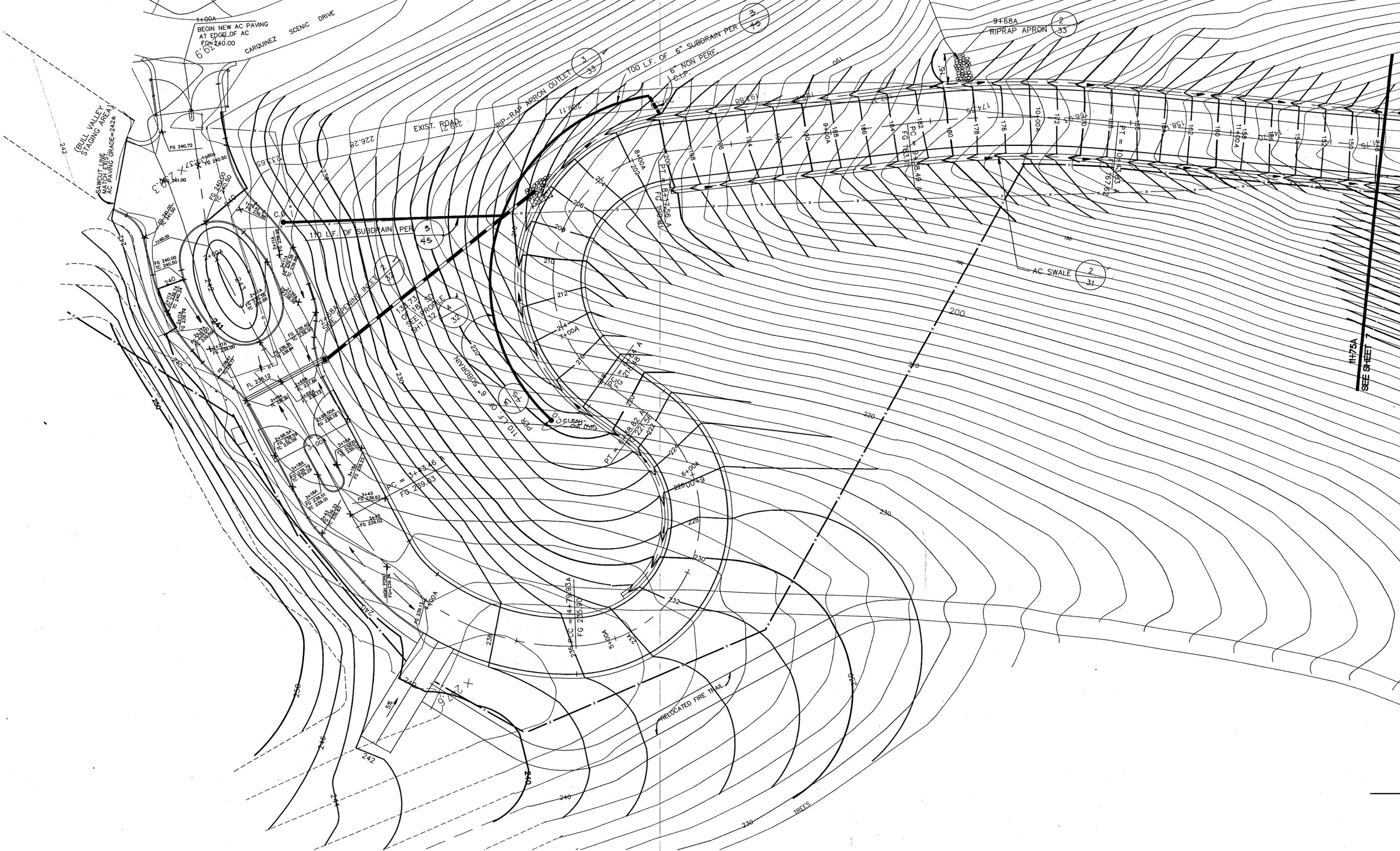
APPROVED: *[Signature]*
 design: JM
 operations: *Ray Dawson*

scale: 1"=20'
 drawn: JM
 checked:
 date: 6-27-96



ROAD AND UTILITY LAYOUT STA 11+50A TO 18+31.89A
INLAND IMPROVEMENTS PLAN
ECKLEY
CARNEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CA
 PROJECT NO. 96CA CONTRACT NO. 15-96-99

SHEET NO. **5**
 OF: 45



REVISIONS



EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
 design: *[Signature]*
 operations: *Ray Rawson*

scale: 1"=20'
 drawn: JM
 checked:
 date: 6-27-96



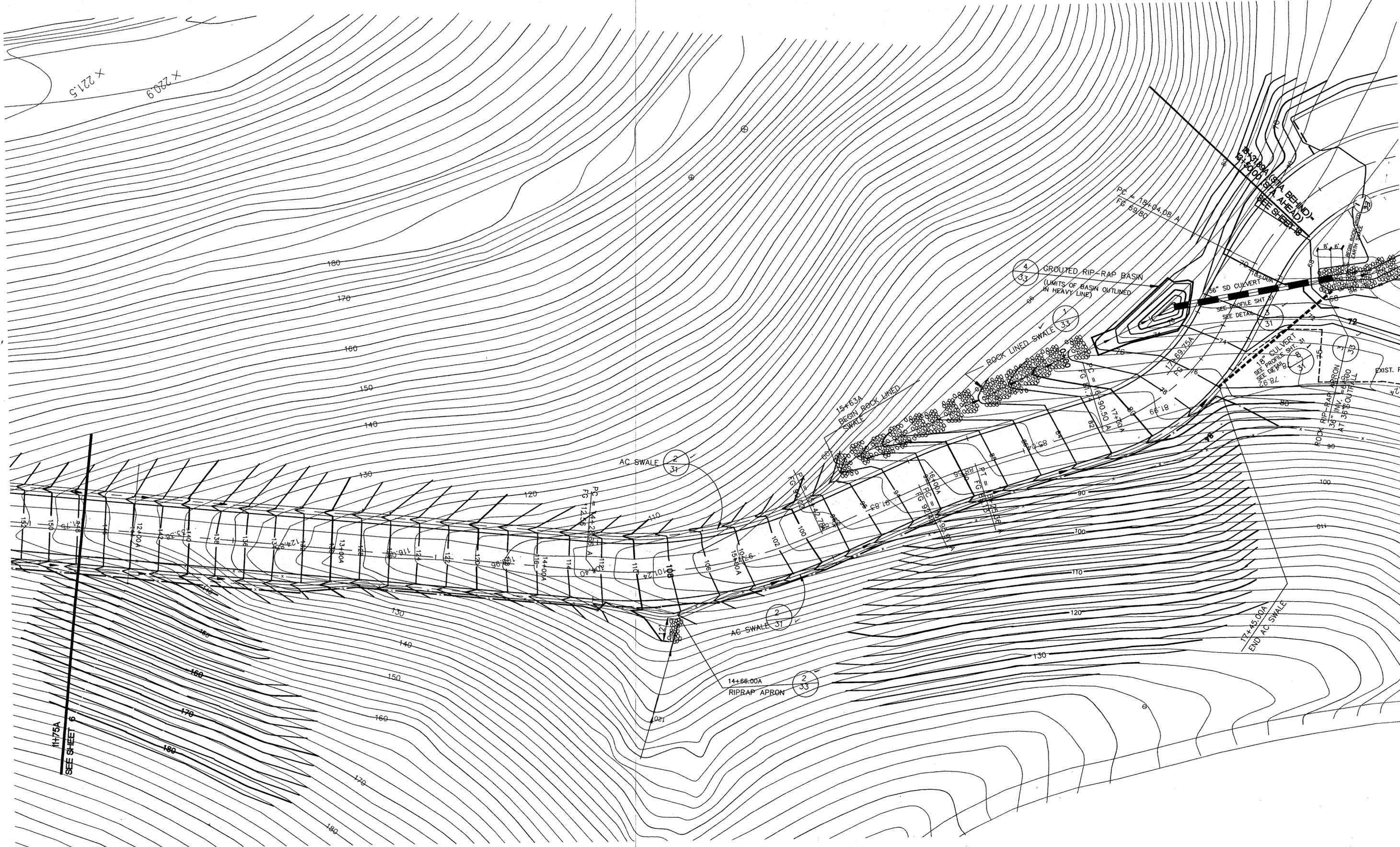
GRADING AND DRAINAGE PLAN STA 1100A TO 1175A

INLAND IMPROVEMENTS PLAN
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CA

SHEET NO.
6
 OF: 45

PROJECT NO. 885A CONTRACT NO. 15-96-09

11-75A
 SEE SHEET



X 221.5
X 220.9

11+75A
SEE SHEET 6

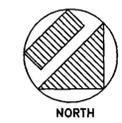
REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
510/635-0135

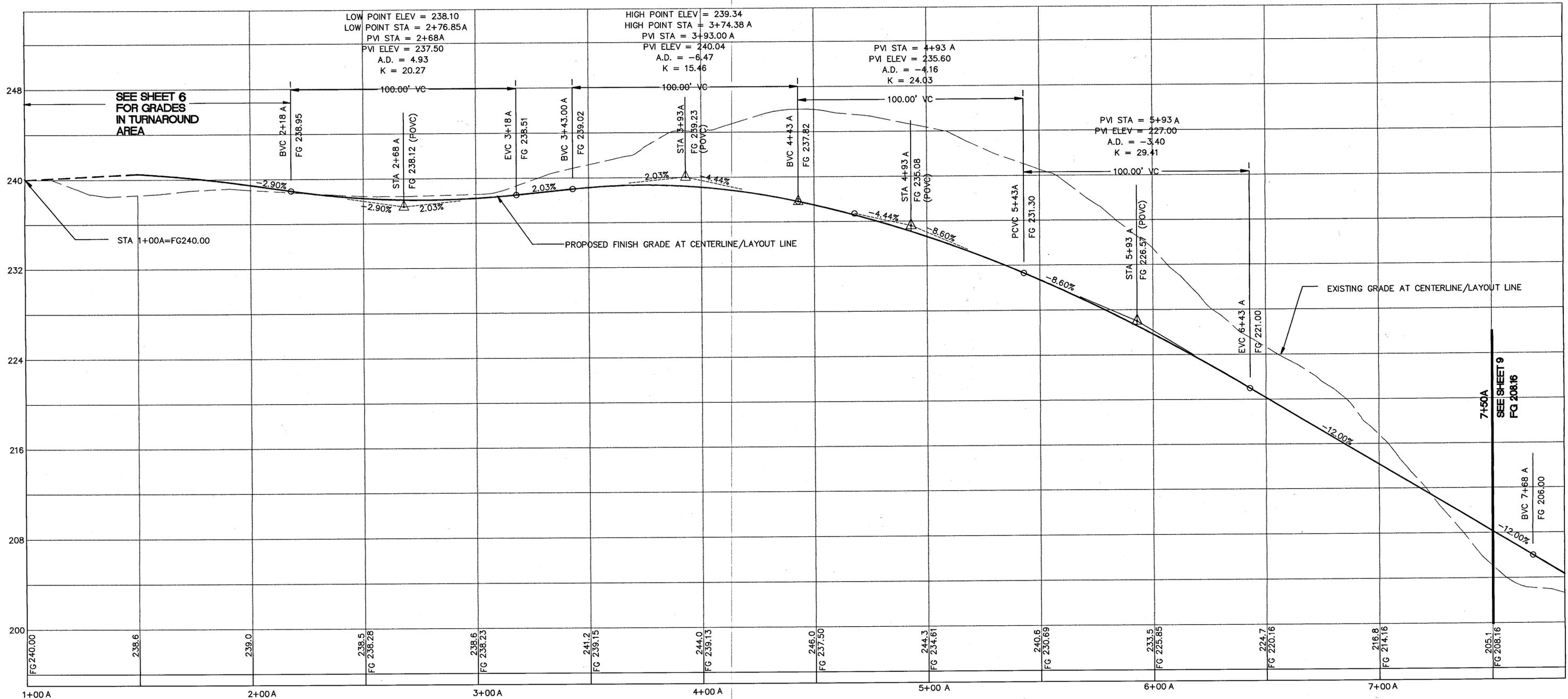
APPROVED
design: *[Signature]*
operations: *Rayafarman*

scale: 1"=20'
drawn: JM
checked:
date: 6-27-06



GRADING AND DRAINAGE PLAN STA 11+75A TO STA 18+31.89A
INLAND IMPROVEMENTS PLAN
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CA
PROJECT NO. 056A CONTRACT NO. 15-00-00

SHEET NO. 7
OF 45



PROFILE
SCALE: 1"=20'H 1"=4' V

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED

design: *[Signature]*

operations: *[Signature]*

C:\PROJECTS\ECKLEY\JANPROF4

scale: AS SHOWN

drawn: JM

checked:

date: 6-27-96

PROFILE 1+00A TO 7+50A

**INLAND IMPROVEMENTS PLAN
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE**
CONTRA COSTA COUNTY, CA

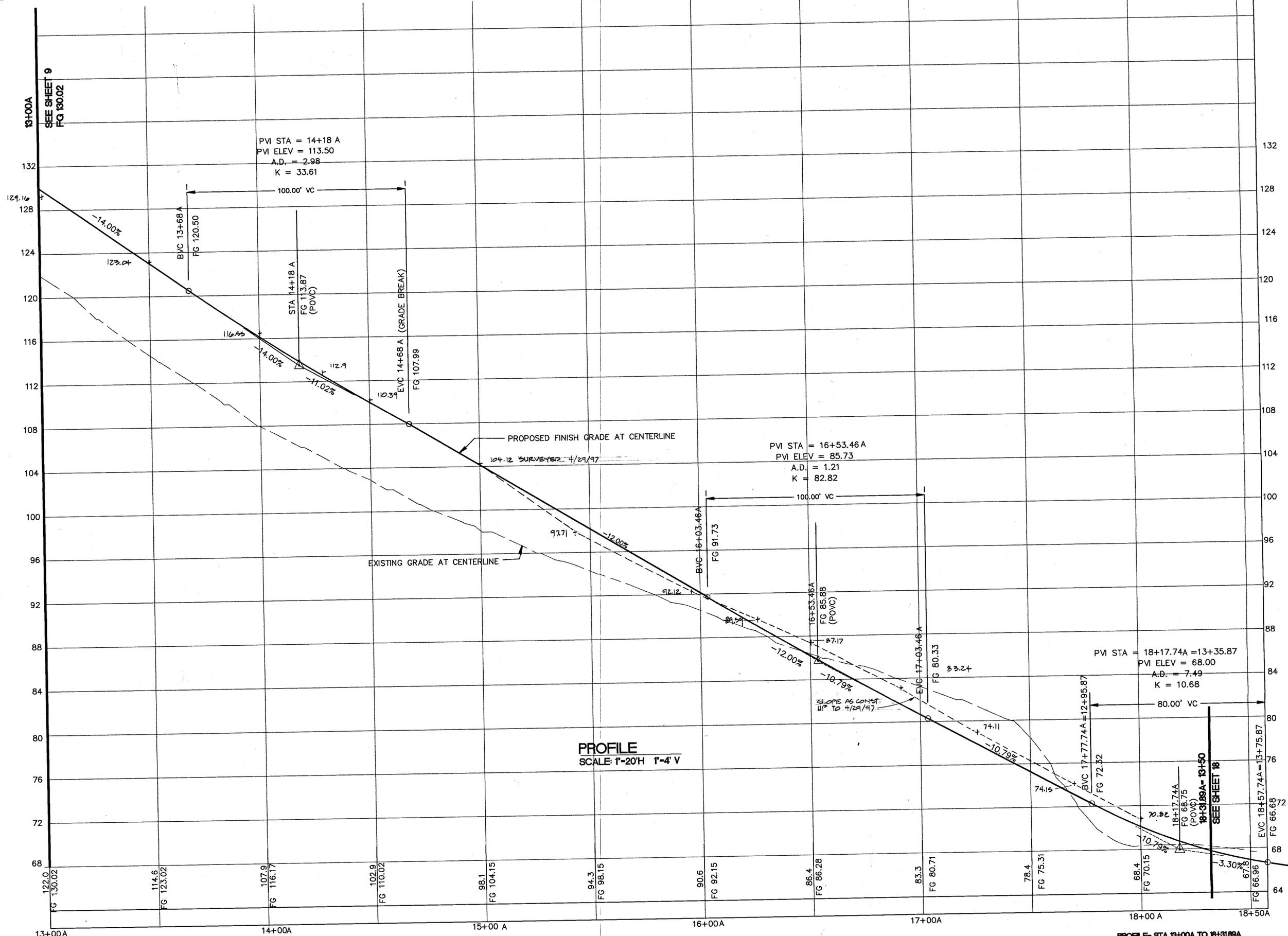
PROJECT NO. 095A

CONTRACT NO. 15-00-09

SHEET NO.

8

OF: 45



PROFILE
SCALE: 1"=20'H 1"=4' V

REVISIONS 4/29/97



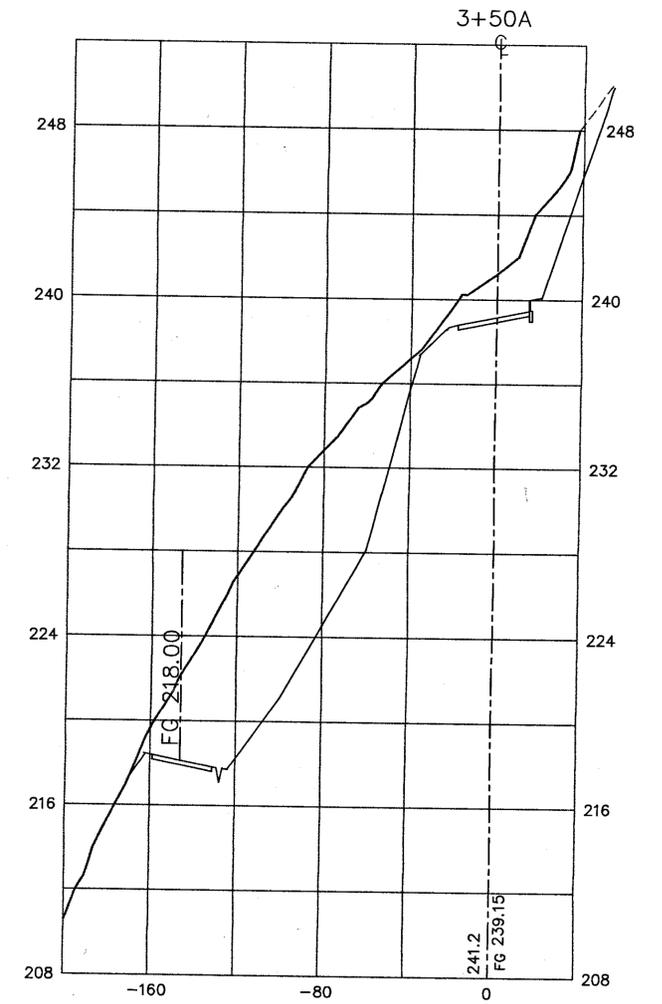
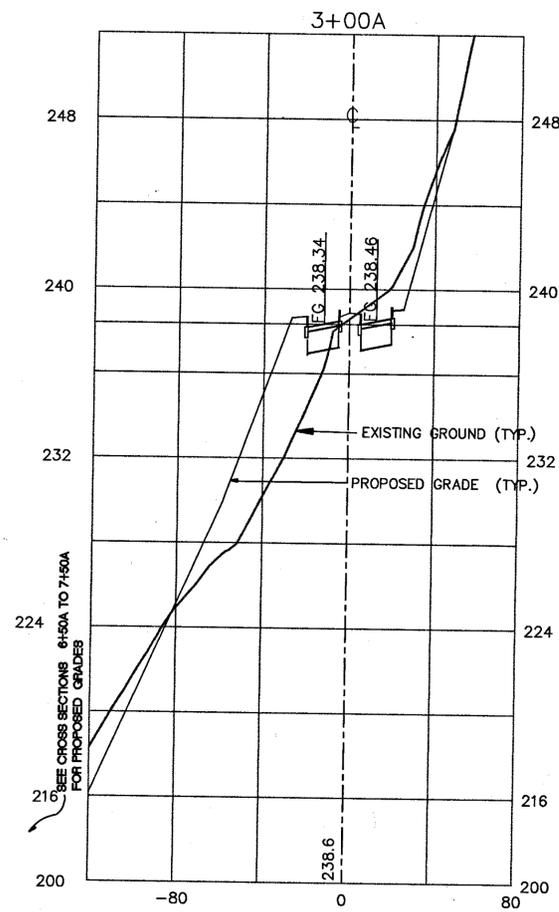
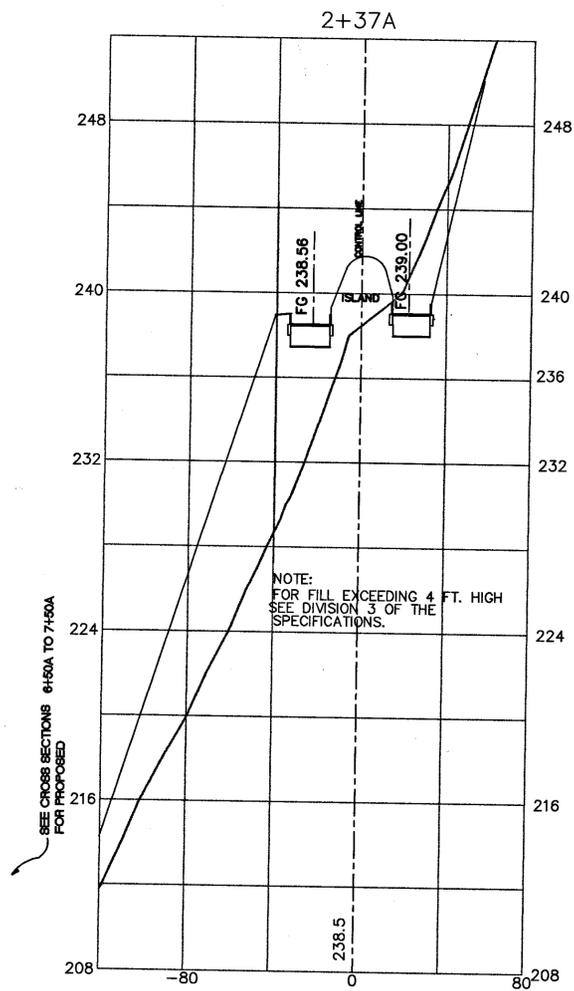
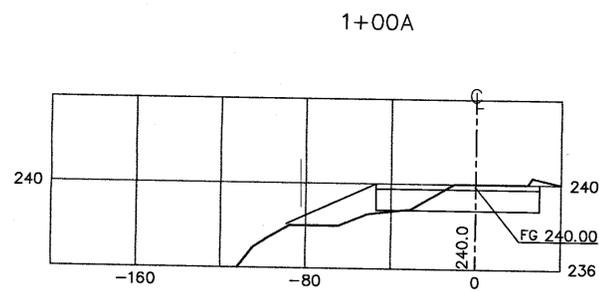
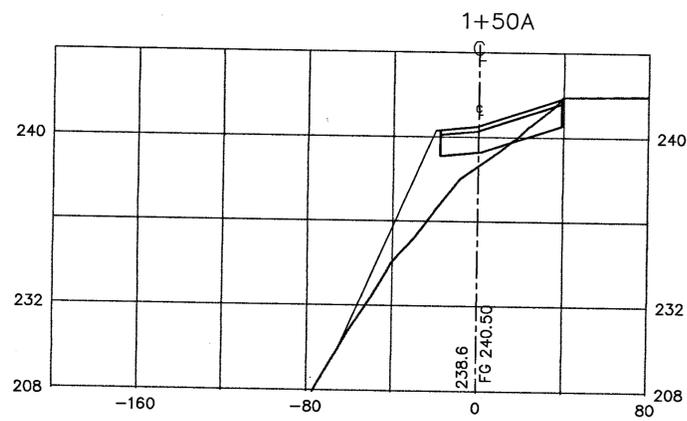
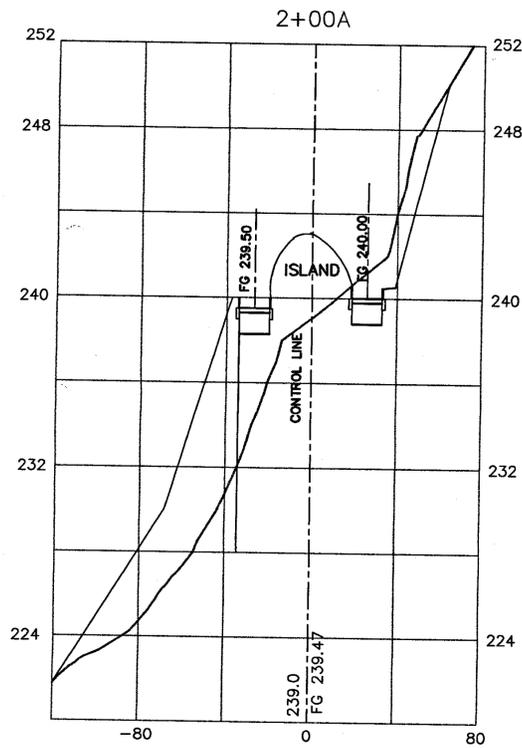
EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: *Ray Dawson*
operations: *Ray Dawson*

PROJECT CHECKED AND APPROVED
scale: AS SHOWN
drawn: JM
checked:
date: 6-27-96

PROFILE- STA 13+00A TO 18+31.89A
INLAND IMPROVEMENTS PLAN
ECKLEY
CARQUEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CA
PROJECT NO. 895A CONTRACT NO. 15-96-99

SHEET NO. 10
OF 45



ACCESS ROAD
CROSS SECTIONS
SCALE: 1"=40' HORIZ.
1"=4' VERT.

REVISIONS



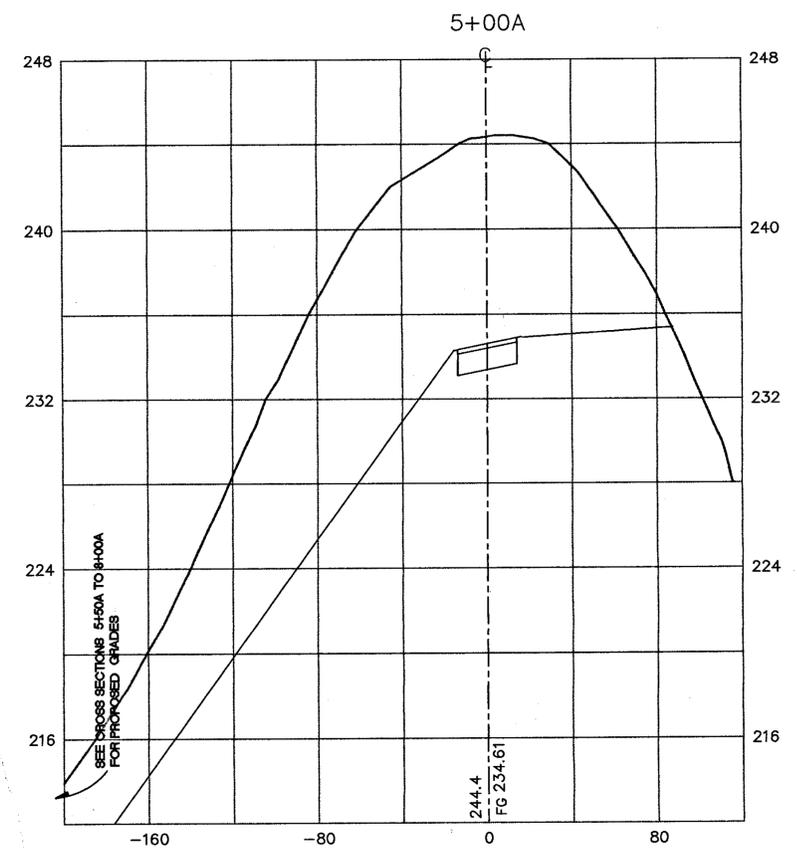
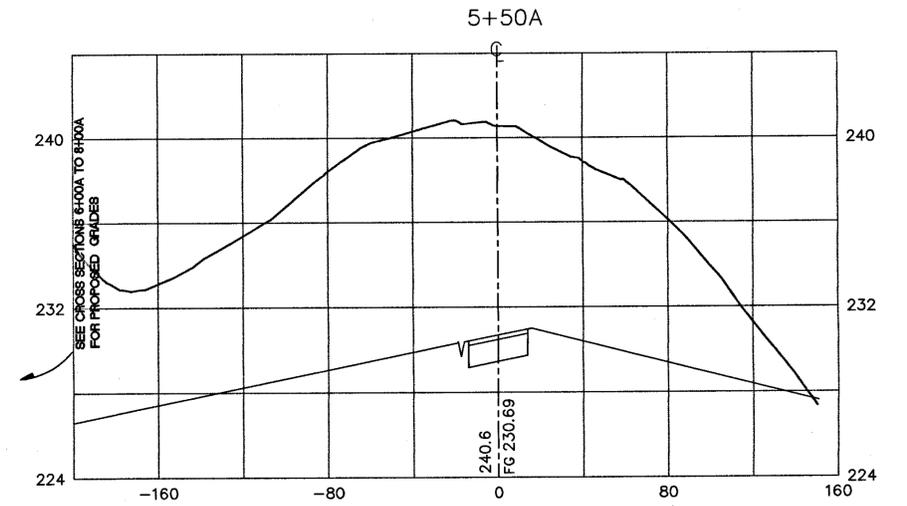
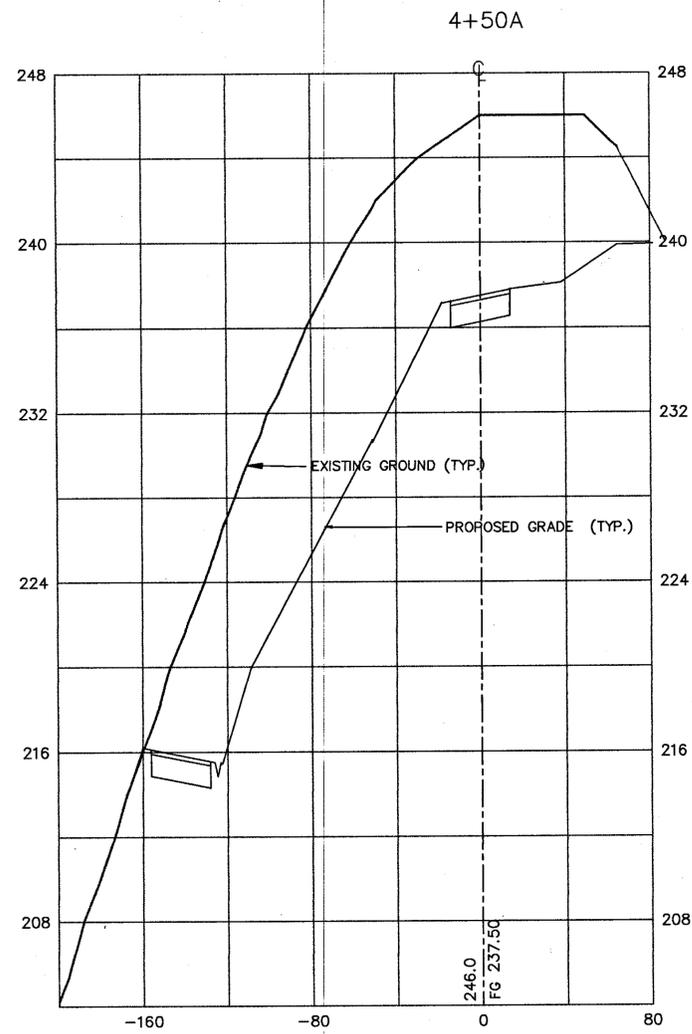
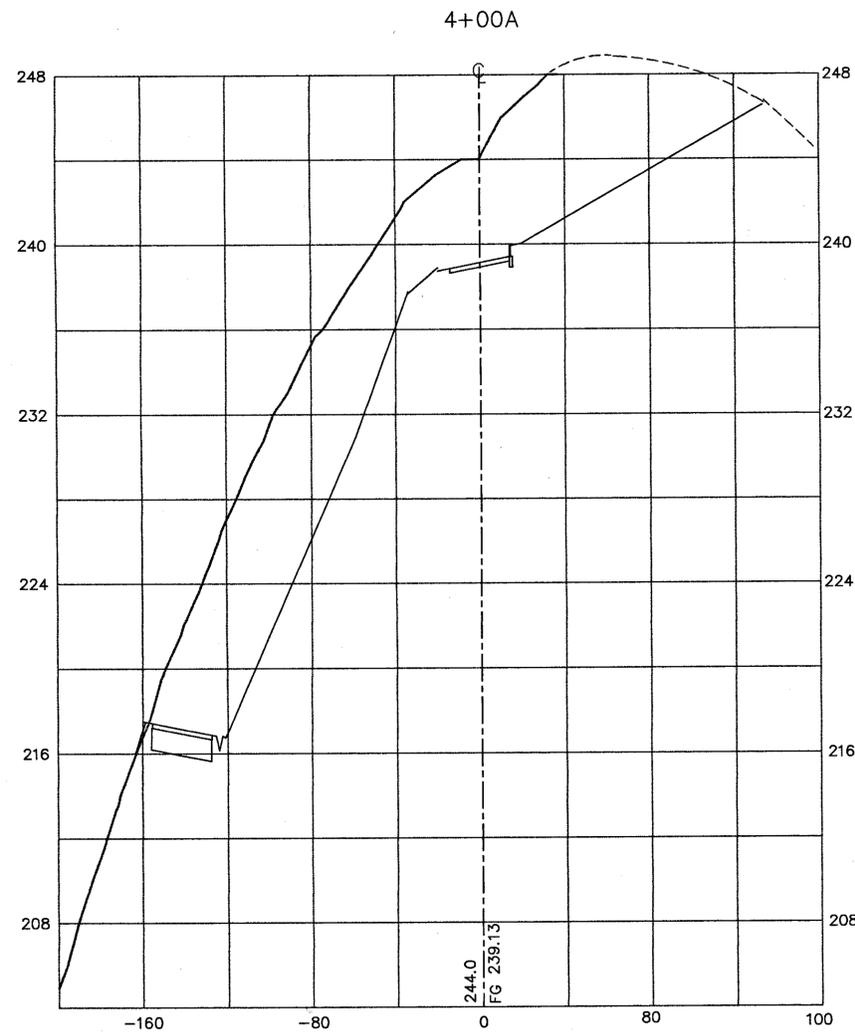
EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: *[Signature]*
operations: *Ray Lawson*

scale: AS SHOWN
drawn: JM
checked:
date: 6-27-96

ACCESS ROAD CROSS SECTIONS (STA 1+00A TO STA 3+50A)
INLAND IMPROVEMENTS PLAN
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CA
PROJECT NO. 005A CONTRACT NO. 15-96-09

SHEET NO.
11
OF 45



ACCESS ROAD
CROSS SECTIONS
SCALE: 1"=40' HORIZ.
1"=4' VERT

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED

design: *JM*

operations: *Ray Peterson*

scale: AS SHOWN

drawn: JM

checked:

date: 6-27-96

ACCESS ROAD CROSS SECTIONS (STA. 4+00A TO STA. 5+50A)

INLAND IMPROVEMENTS PLAN

ECKLEY

CARQUINEZ STRAIT REGIONAL SHORELINE

CONTRA COSTA COUNTY, CA

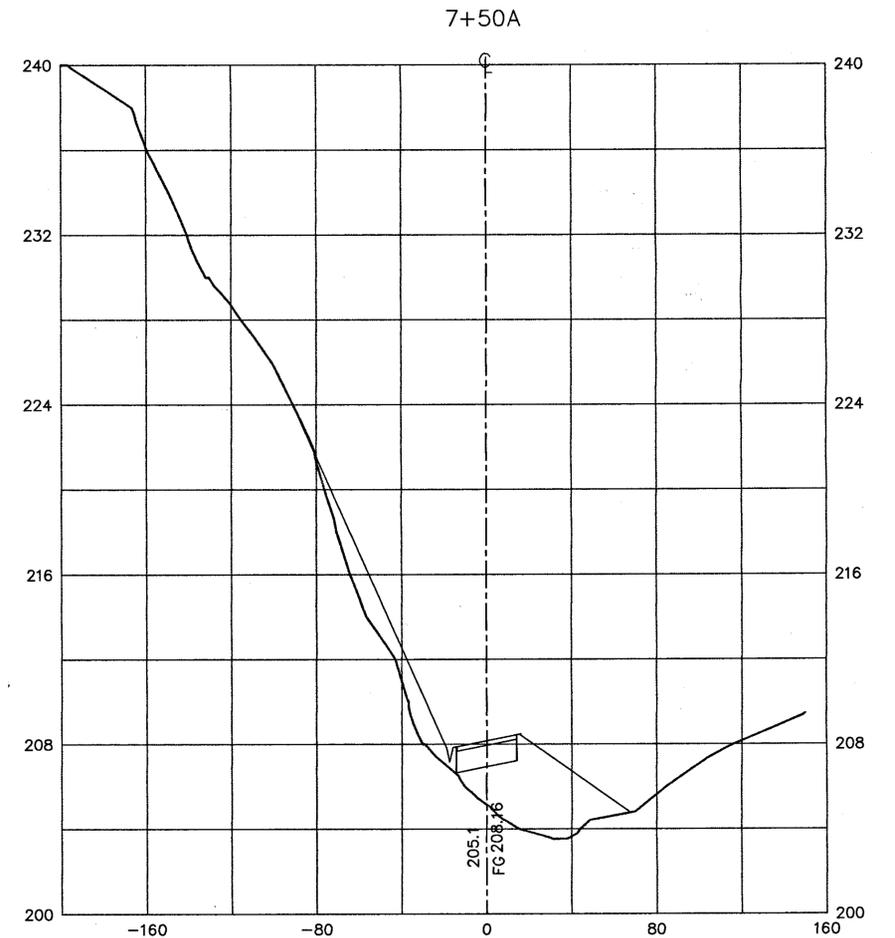
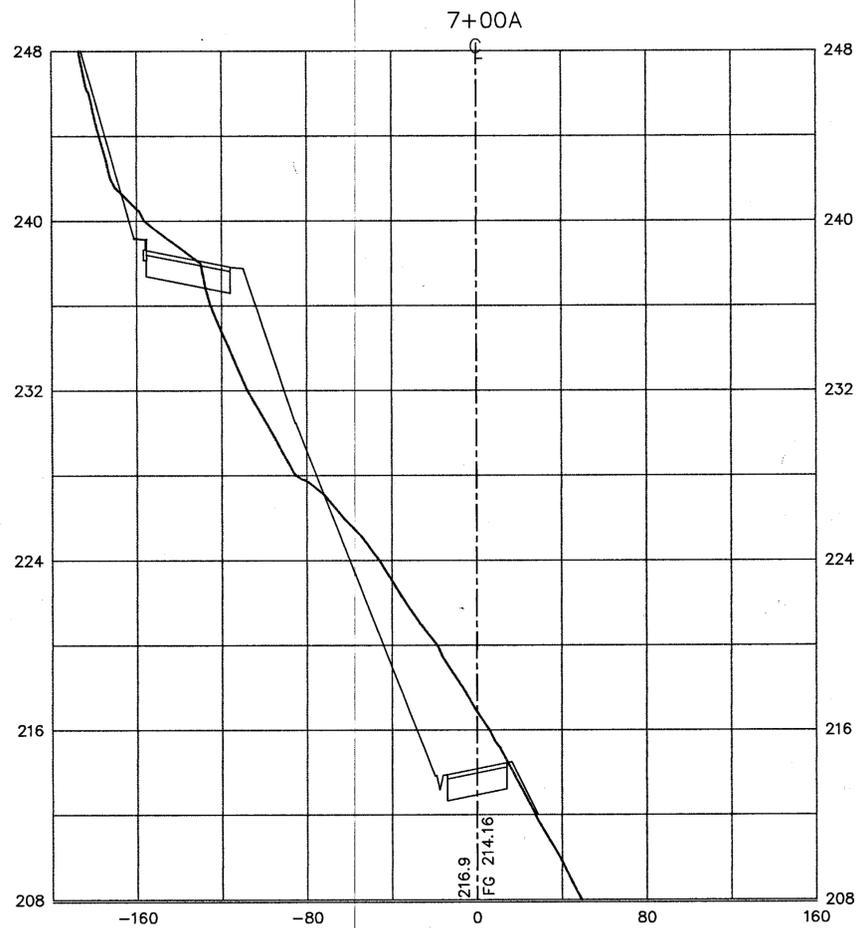
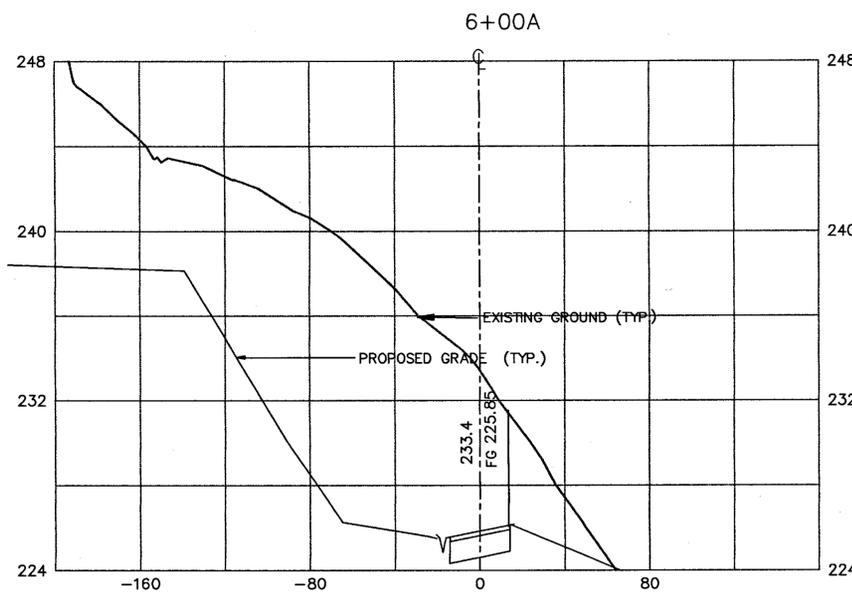
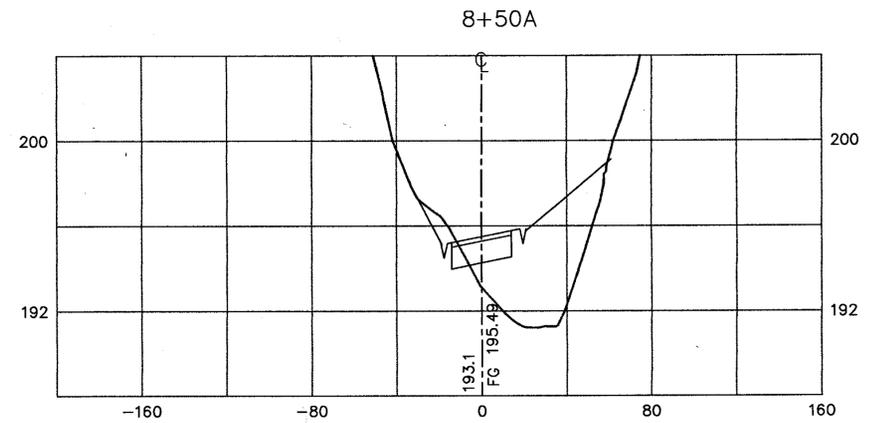
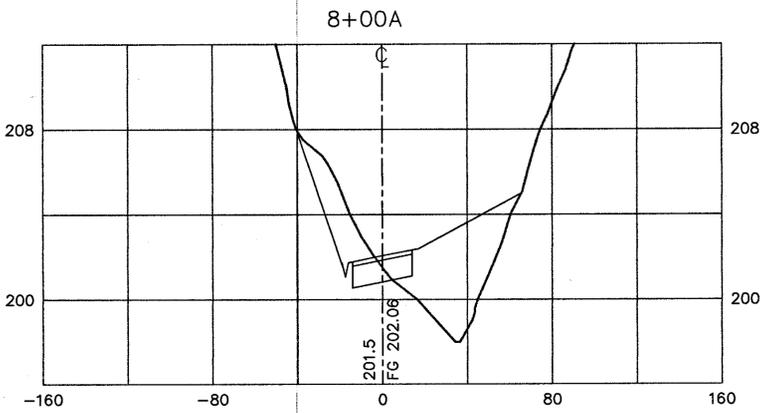
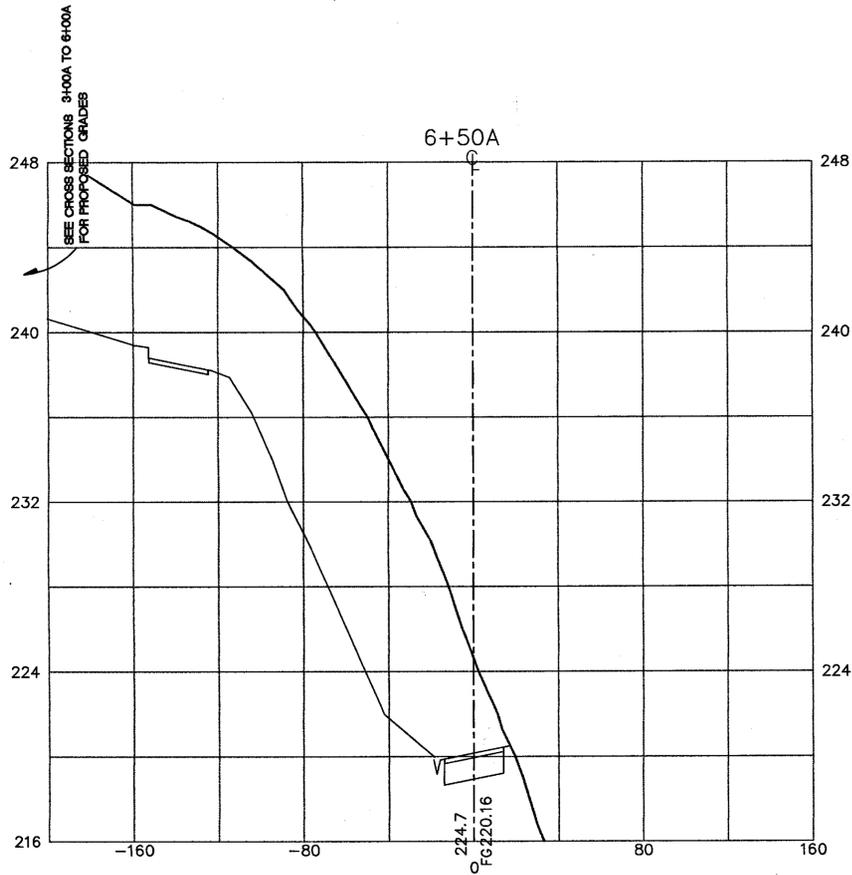
PROJECT NO. 695A

CONTRACT NO. 15-96-69

SHEET NO.

12

OF 35



ACCESS ROAD
CROSS SECTIONS
SCALE: 1"=40' HORIZ.
1"=4' VERT

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED

design: *[Signature]*

operations: *[Signature]*

scale: AS SHOWN

drawn: JM

checked:

date: 6-27-96

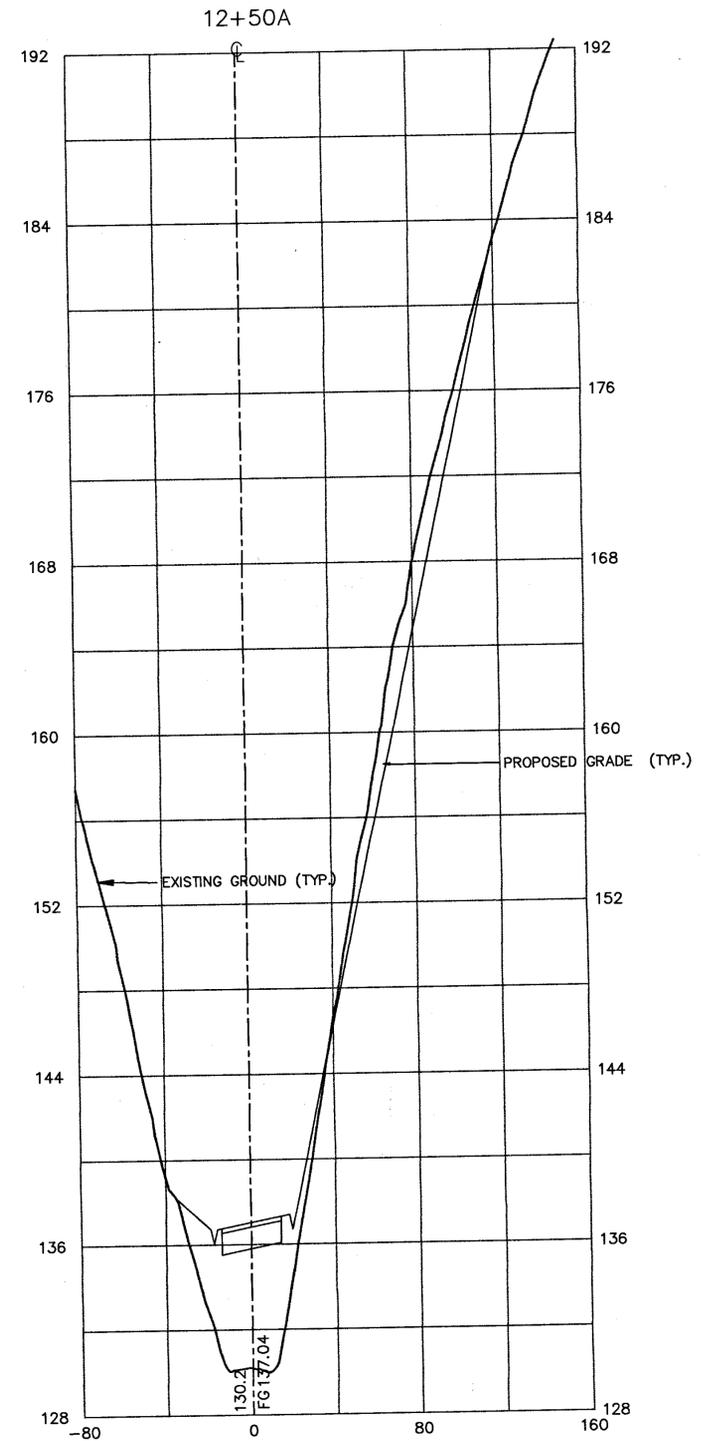
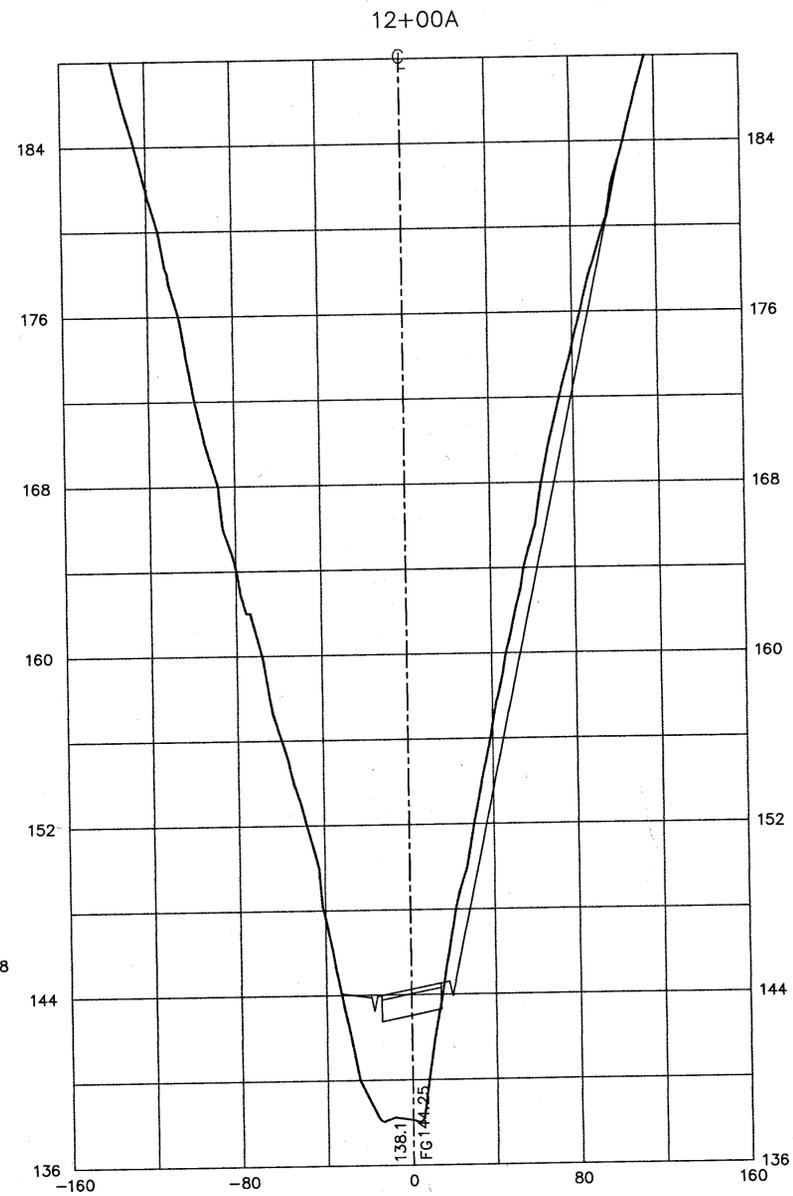
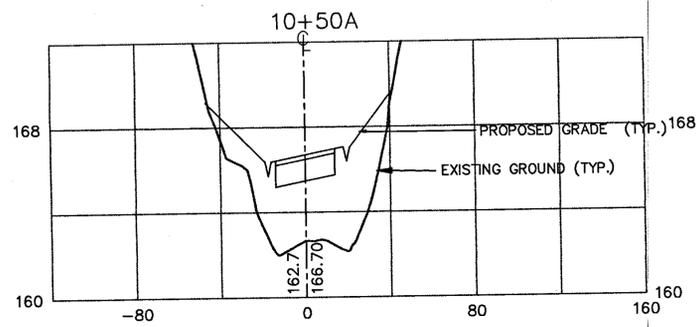
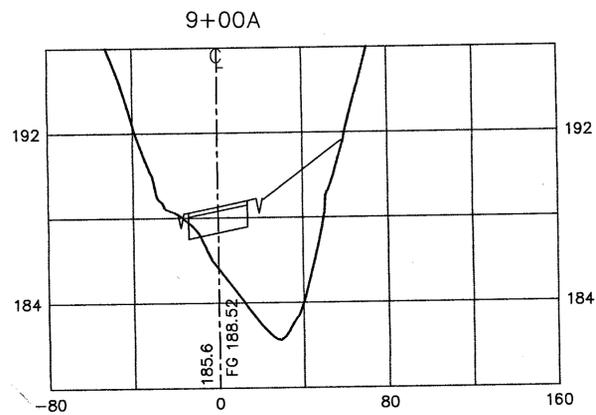
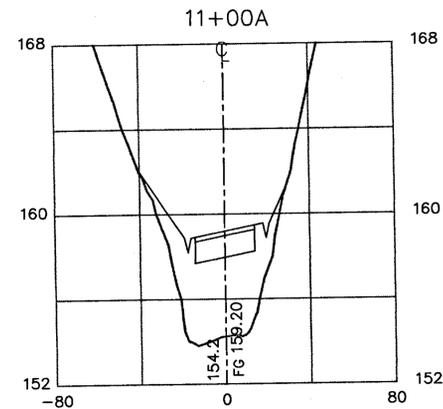
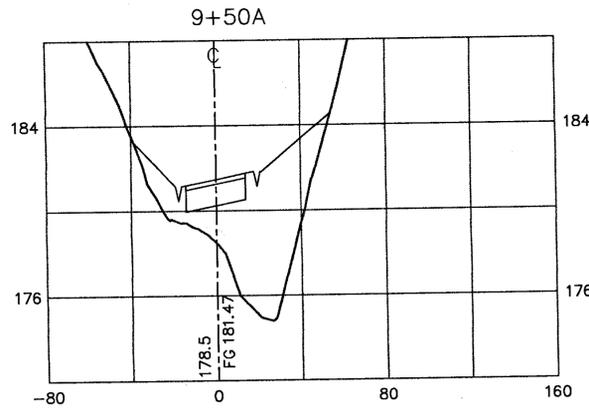
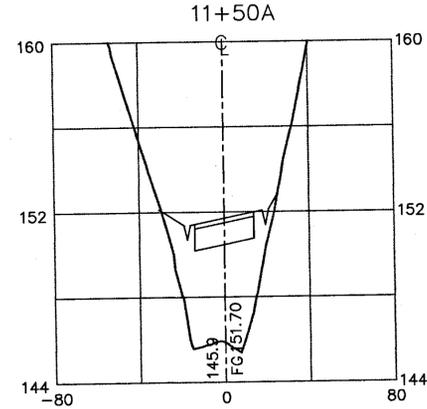
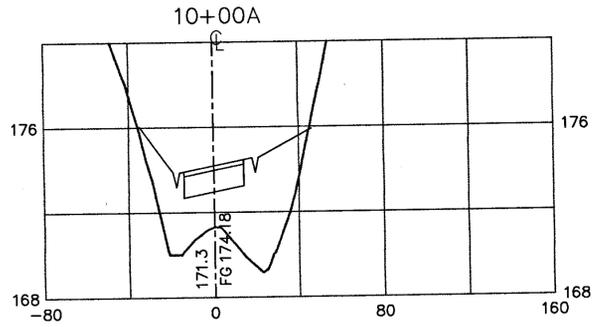
ACCESS ROAD CROSS SECTIONS (STA. 8+00A TO STA. 8+50A)
INLAND IMPROVEMENTS PLAN
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CA
PROJECT NO. 695A CONTRACT NO. 15-96-69

SHEET NO.

13

OF: 45

NO.



ACCESS ROAD
CROSS SECTIONS
SCALE: 1"=40' HORIZ.
1"=4' VERT.

REVISIONS



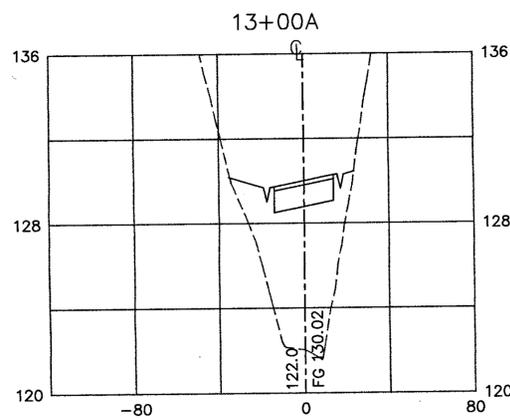
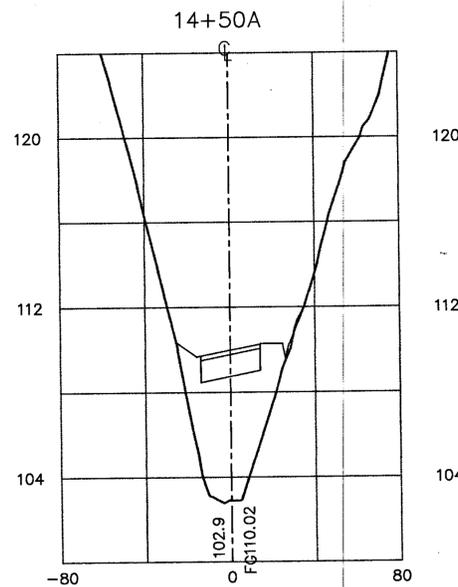
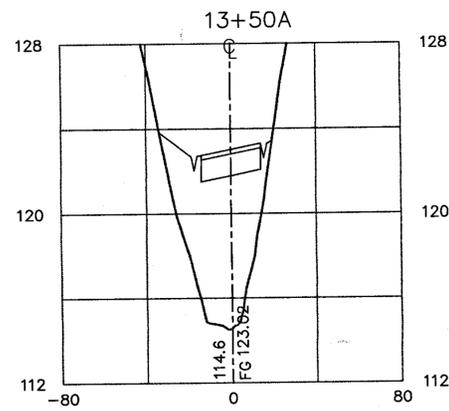
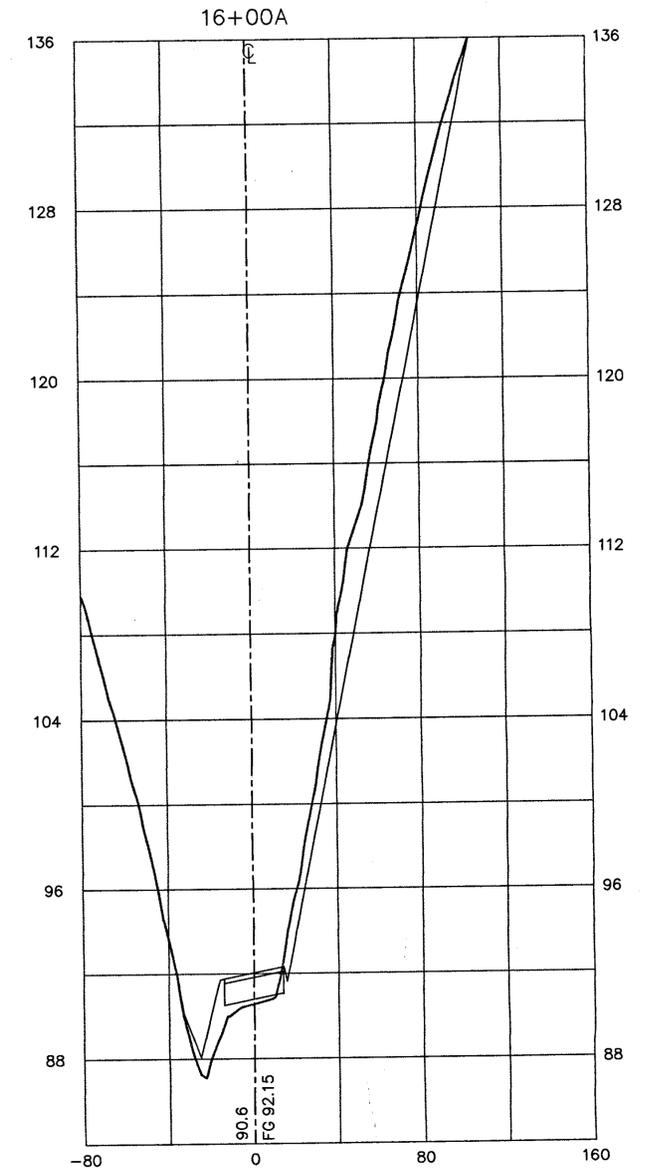
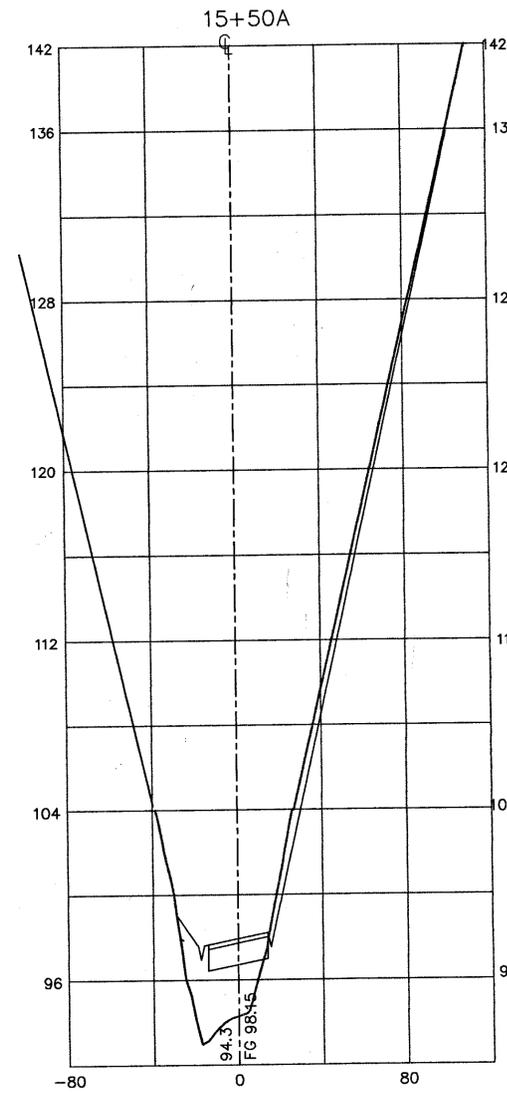
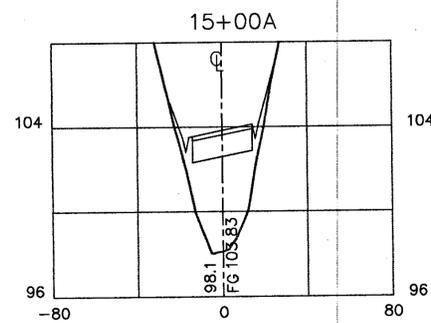
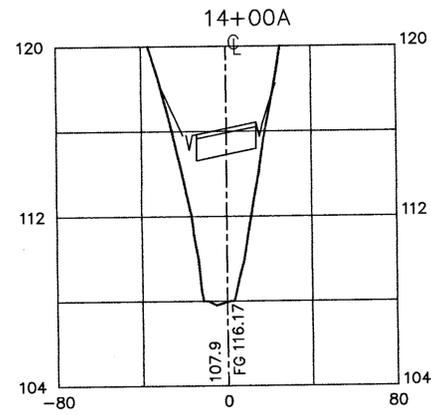
EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
510/635-0135

APPROVED
design: *[Signature]*
operations: *[Signature]*

scale: AS SHOWN
drawn: JM
checked:
date: 6-27-96

ACCESS ROAD CROSS SECTIONS (STA. 9+00A TO STA. 12+50A)
INLAND IMPROVEMENTS PLAN
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CA
PROJECT NO. 695A CONTRACT NO. 15-96-69

SHEET NO.
14
OF 45



ACCESS ROAD
CROSS SECTIONS
SCALE: 1"=40' HORIZ.
1"=4' VERT

REVISIONS



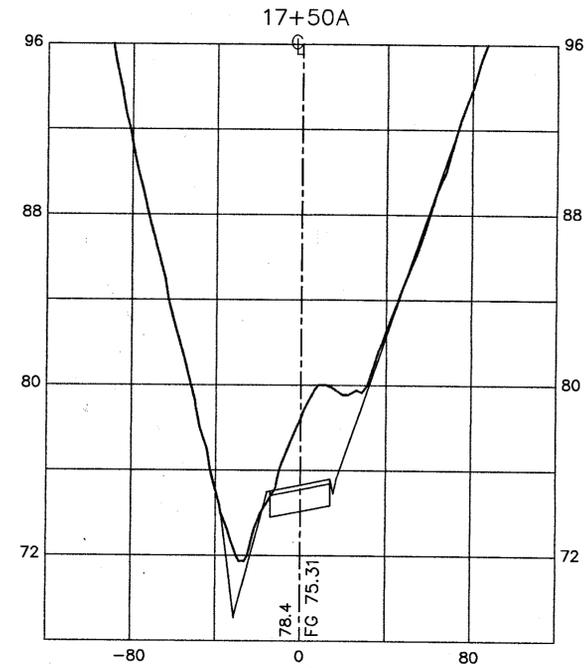
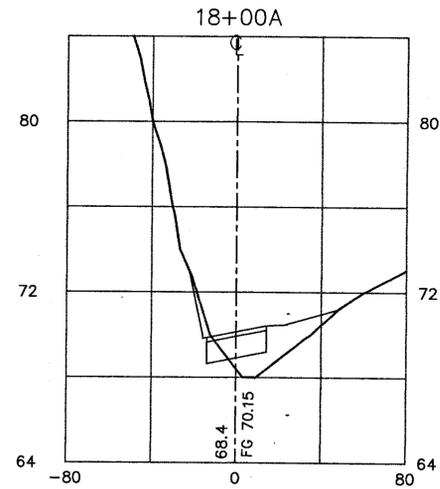
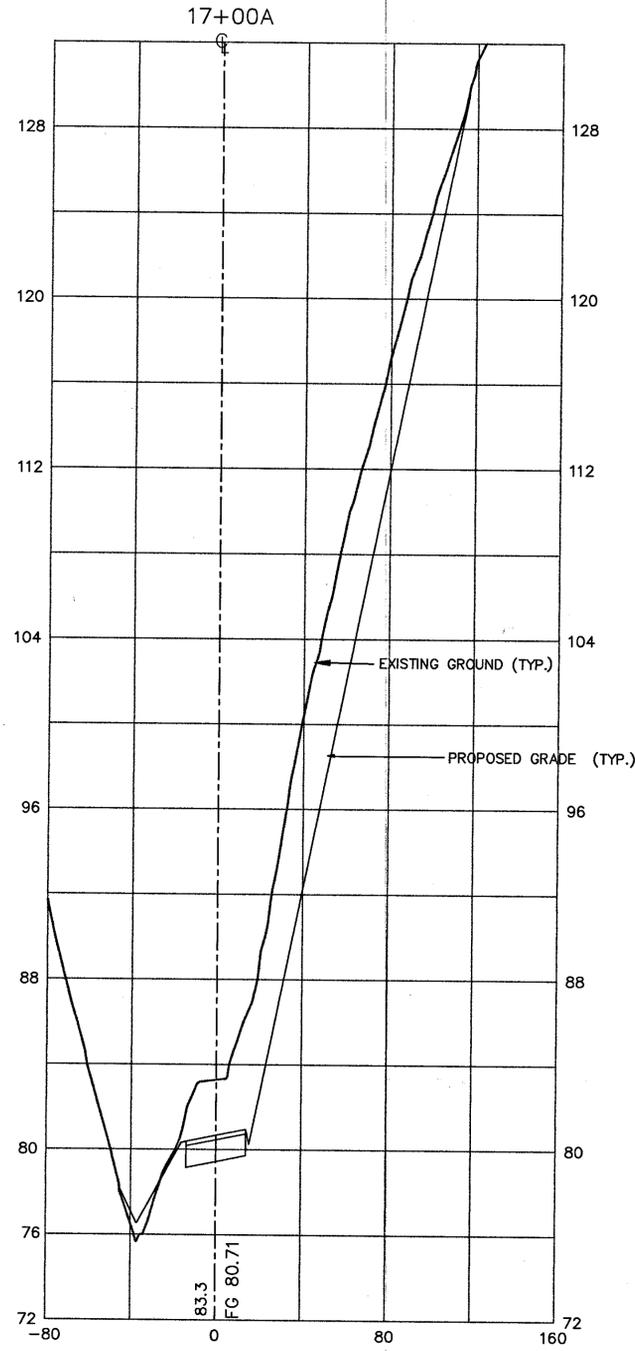
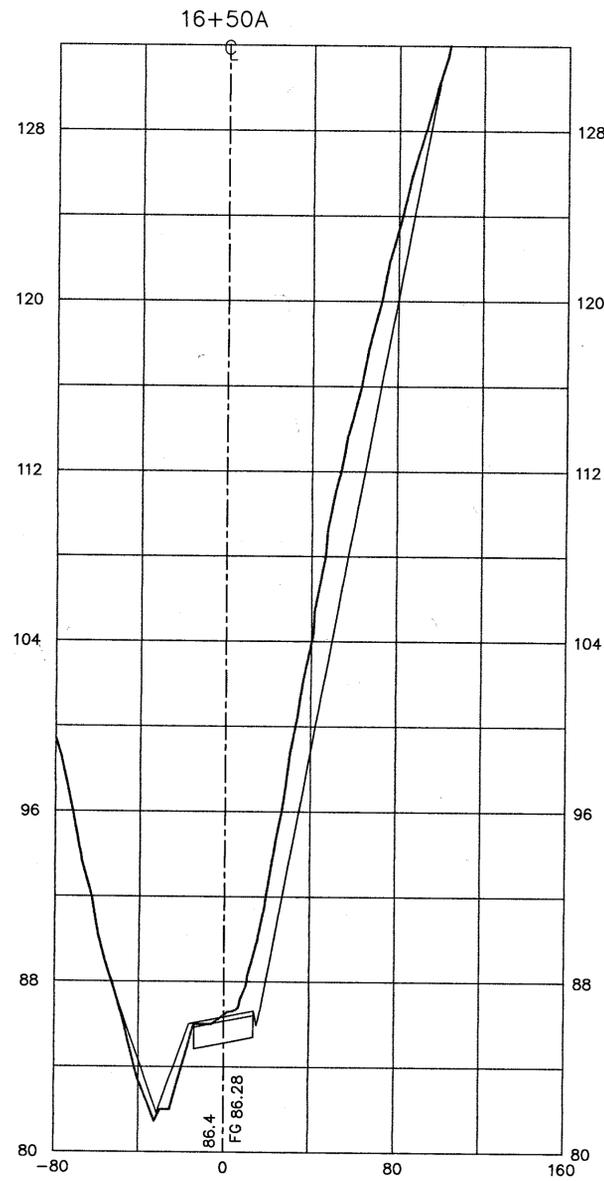
EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: *[Signature]*
operations: *[Signature]*

scale: AS SHOWN
drawn: JM
checked:
date: 6-27-96

ACCESS ROAD CROSS SECTIONS (STA. 13+00A to STA. 16+00A)
INLAND IMPROVEMENTS PLAN
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CA
PROJECT NO. 095A CONTRACT NO. 15-96-69

SHEET NO.
15
OF 45



ACCESS ROAD
CROSS SECTIONS
SCALE: 1"=40' HORIZ.
1"=4' VERT

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED

design: *[Signature]*

operations: *[Signature]*

scale: AS SHOWN

drawn: JM

checked:

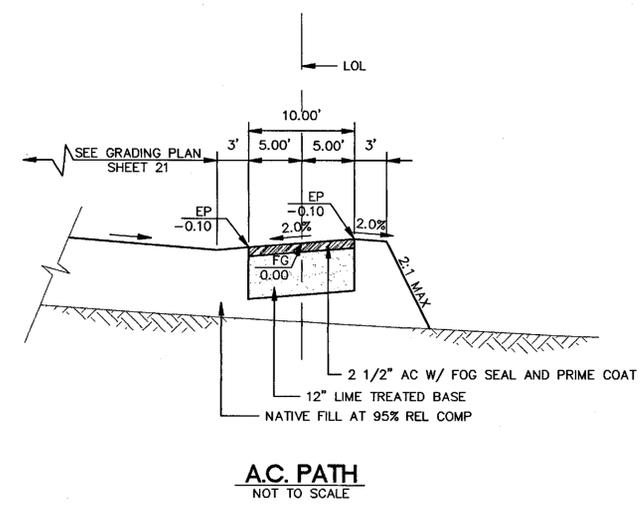
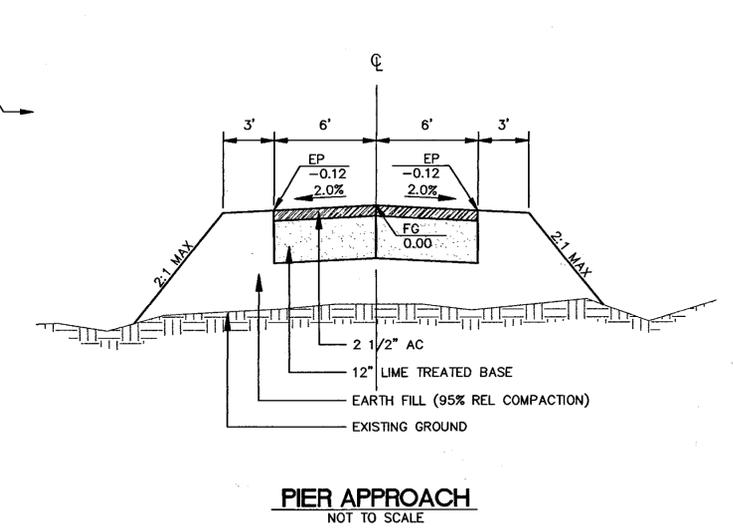
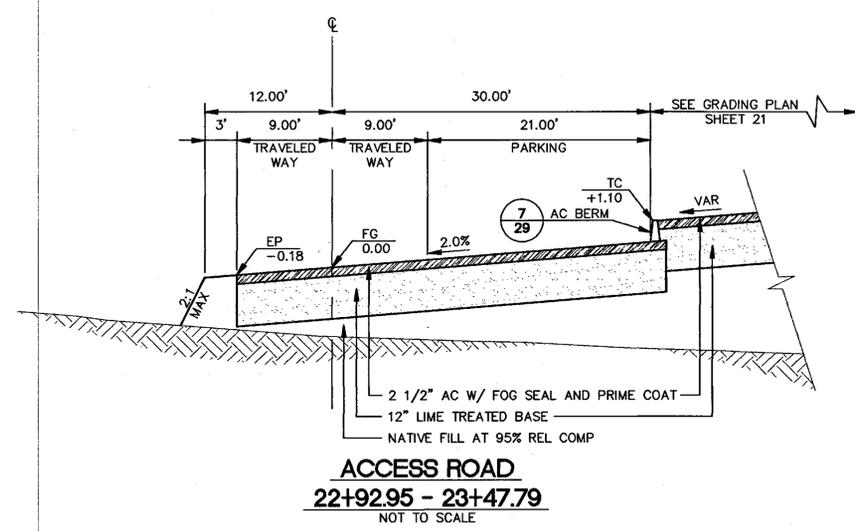
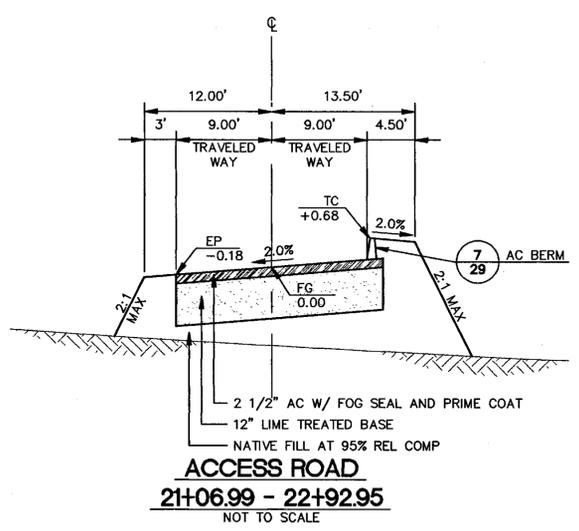
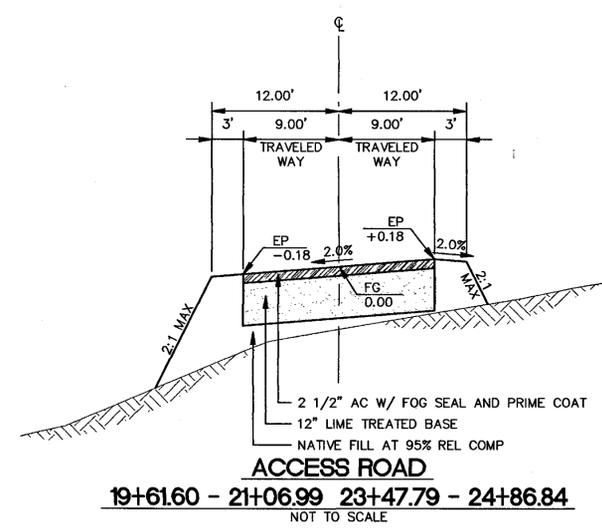
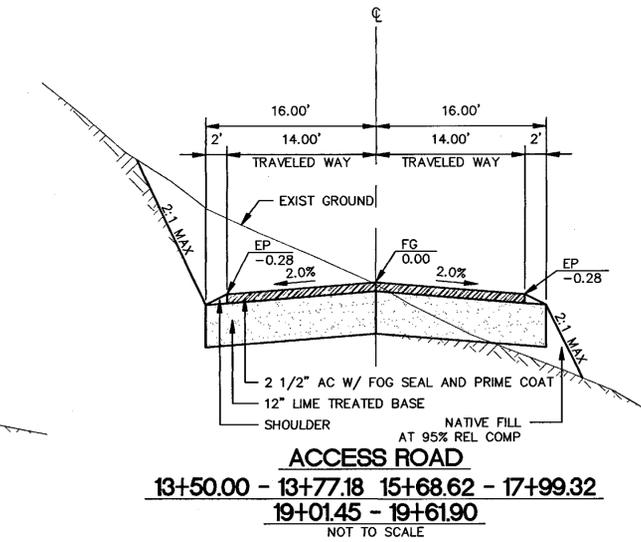
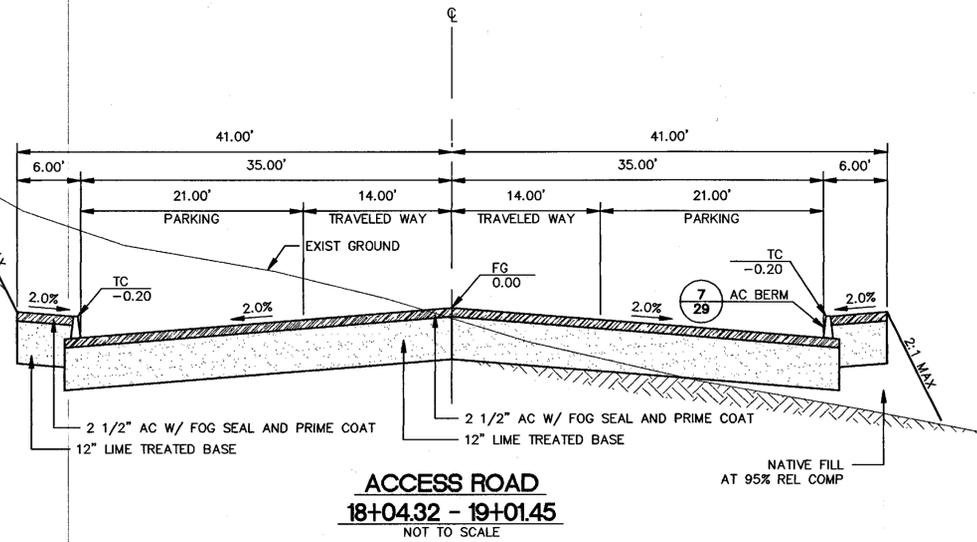
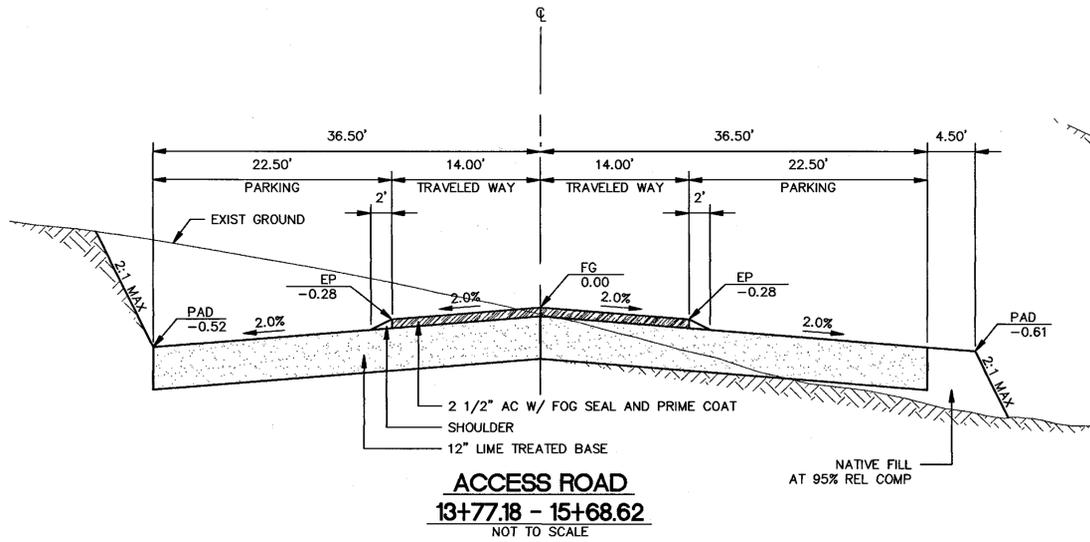
date: 6-27-96

ACCESS ROAD CROSS SECTIONS (STA. 16+50A TO STA. 18+00A)
INLAND IMPROVEMENTS PLAN
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CA
PROJECT NO. 695A CONTRACT NO. 15-96-09

SHEET NO.

16

OF: 45



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REVISIONS



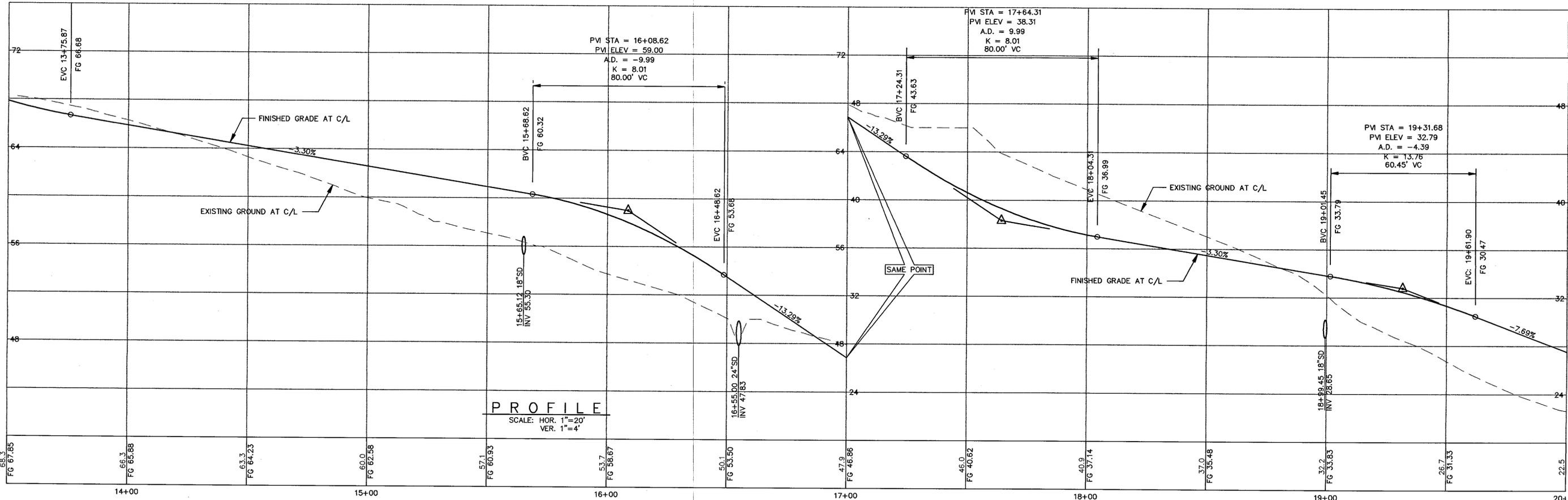
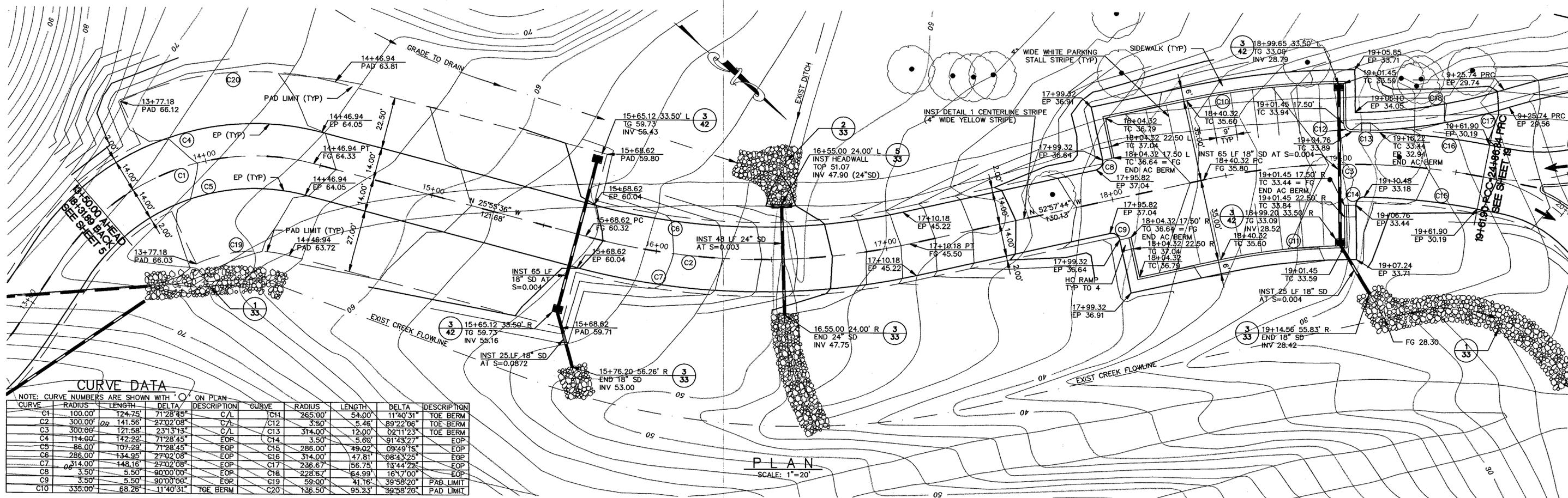
EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
 design: *[Signature]*
 operations: *[Signature]*

scale: AS SHOWN
 drawn: JOB
 checked: ML
 date: 6-27-96

TYPICAL PAVING SECTIONS
 INLAND IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CALIFORNIA
 PROJECT NO. 685A CONTRACT NO. 15-96-69

SHEET NO.
17
 OF: 45



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REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: [Signature]
operations: [Signature]

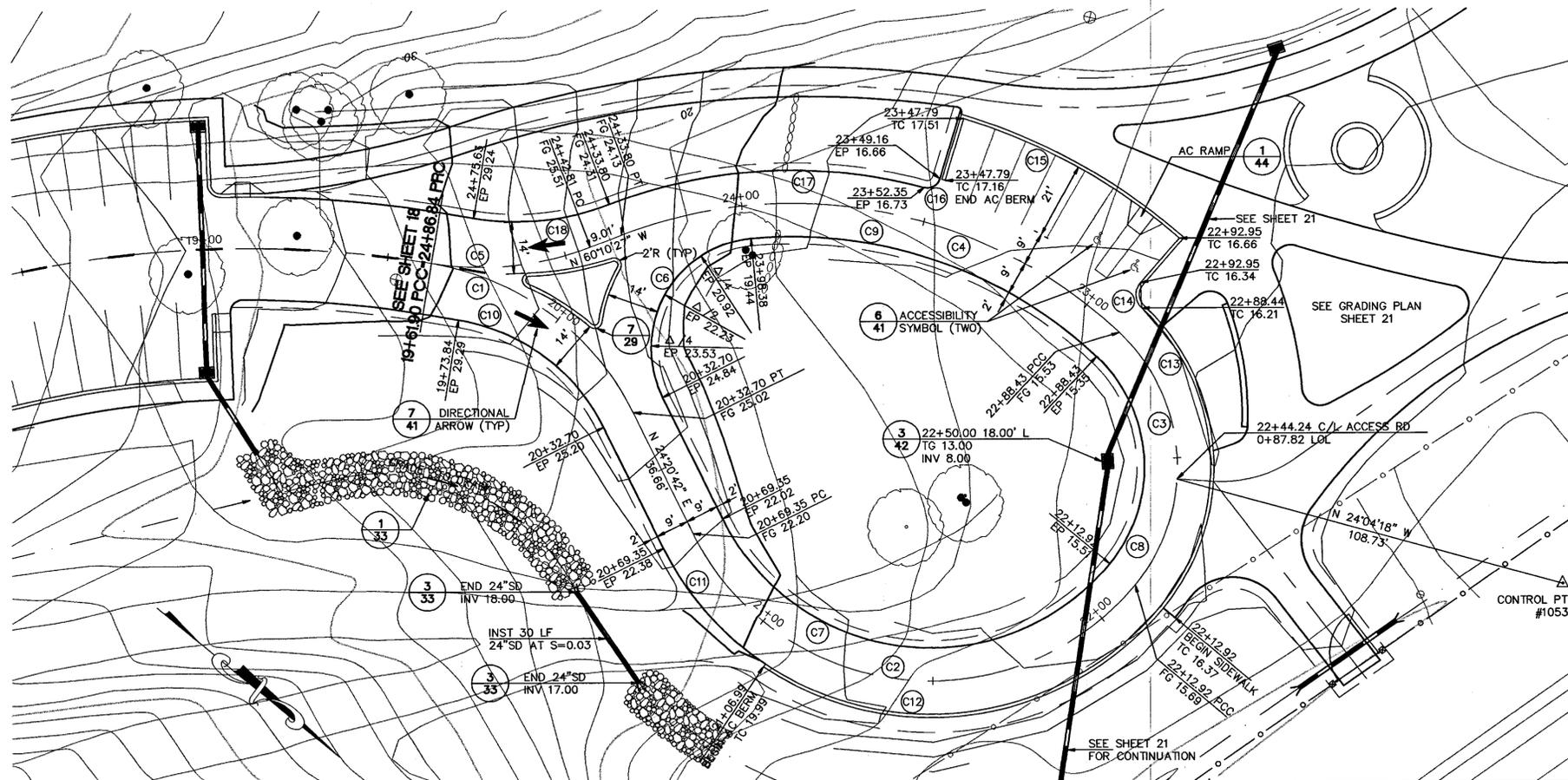
scale: 1" = 20'
drawn: JOB
checked: ML/EC
date: 6-27-96

PLAN AND PROFILE - ACCESS ROAD (13+50.00 - 19+61.90)
INLAND IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA

PROJECT NO. 695A

CONTRACT NO. 15-96-69

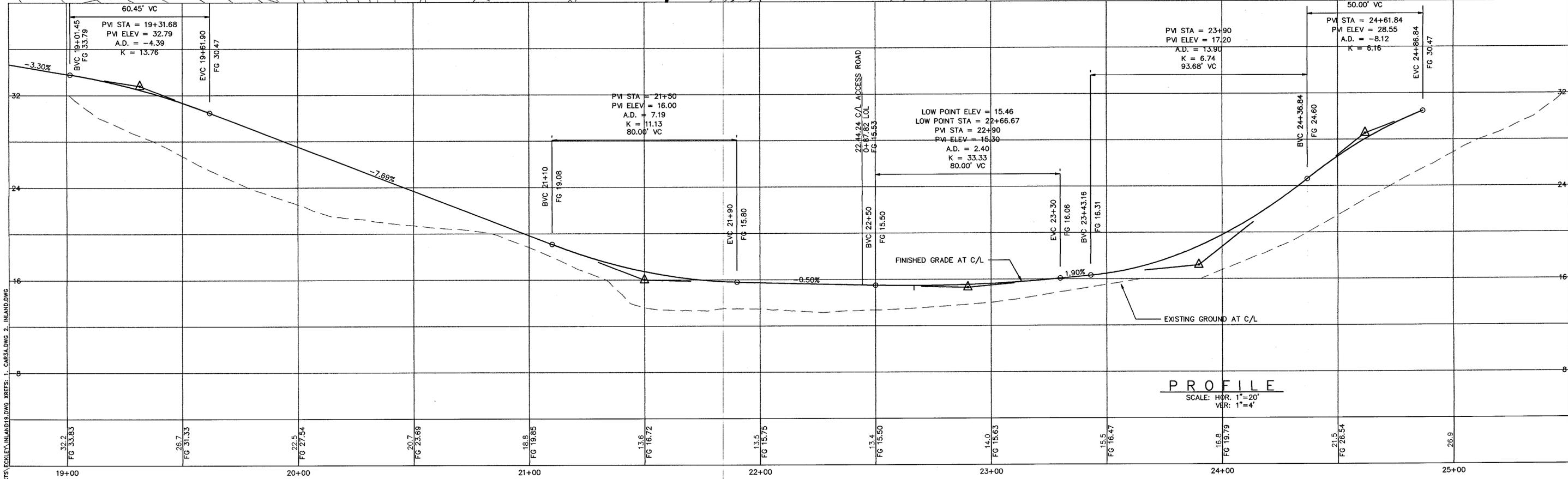
SHEET NO.
18
OF 45



CURVE TABLE

NOTE: CURVE NUMBERS ARE SHOWN WITH 'O' ON PLAN

CURVE	RADIUS	LENGTH	DELTA	DESCRIPTION
C1	75.00'	70.80'	54°05'13"	C/L
C2	72.21'	143.57'	113°55'23"	C/L
C3	50.00'	75.51'	86°31'32"	C/L
C4	130.00'	145.37'	64°04'14"	C/L
C5	82.90'	44.03'	30°25'56"	C/L
C6	30.00'	58.17'	111°05'34"	EOP
C7	63.21'	125.67'	113°55'23"	EOP
C8	41.00'	61.92'	86°31'32"	EOP
C9	121.00'	102.34'	48°27'31"	EOP
C10	53.91'	50.89'	54°05'13"	EOP
C11	81.21'	42.33'	29°51'54"	EOP
C12	81.21'	119.14'	84°03'28"	TOE BERM
C13	59.00'	89.11'	86°31'58"	TOE BERM
C14	5.00'	7.68'	88°00'51"	TOE BERM
C15	160.00'	67.50'	24°10'15"	TOE BERM
C16	3.50'	5.37'	87°59'21"	EOP
C17	139.00'	87.08'	35°53'45"	EOP
C18	70.73'	37.57'	30°25'56"	EOP



PROFILE
SCALE: HOR. 1"=20'
VER. 1"=4'

C:\PROJECTS\ECKLEY\INLAND\18.DWG XREFS: 1. CAR3A.DWG 2. INLAND.DWG

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: *[Signature]*
operations: *[Signature]*

scale: 1" = 20'
drawn: JOB
checked: ML/EC
date: 6-27-96

PLAN AND PROFILE - ACCESS ROAD (19+61.90 - 24+86.84)
INLAND IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NO. 695A CONTRACT NO. 15-96-69

SHEET NO.
19
OF 45

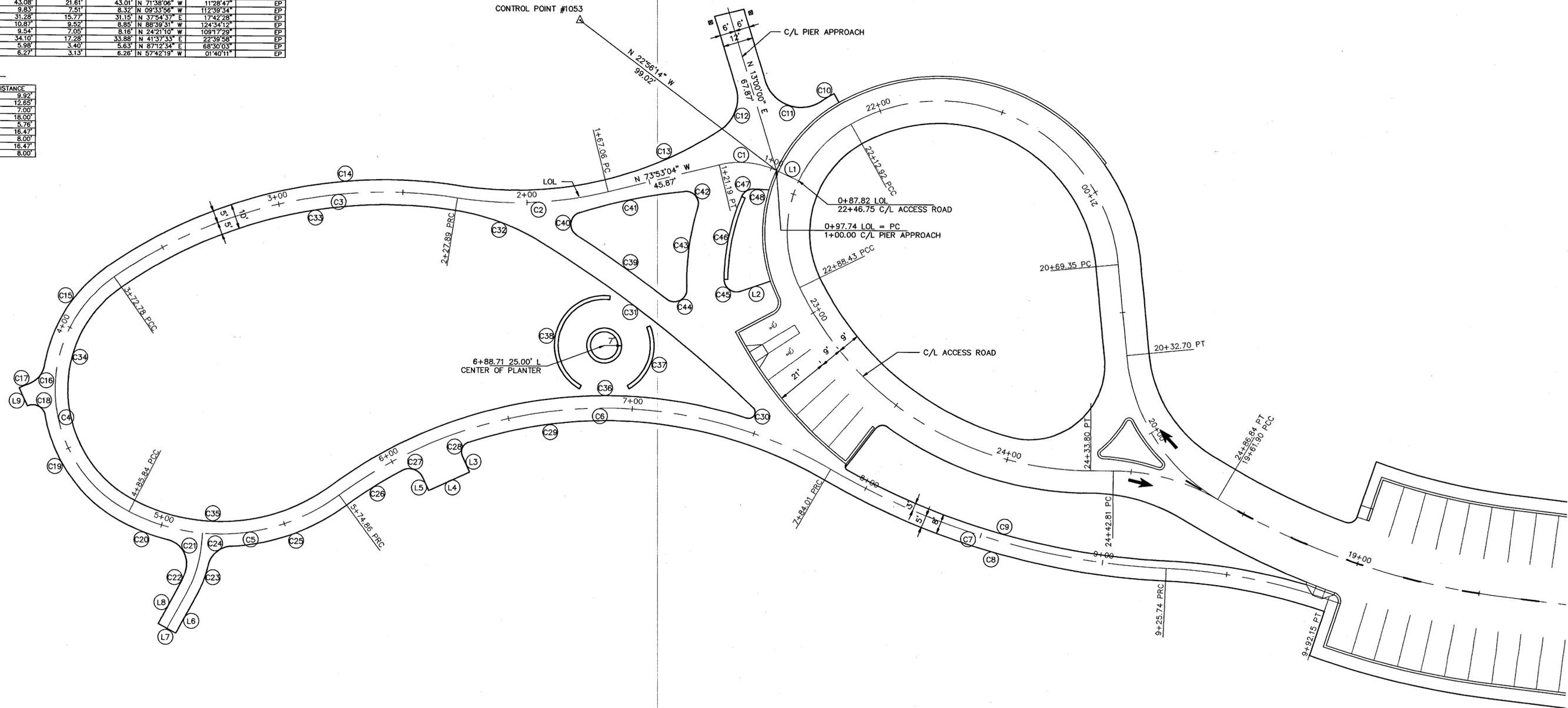
CURVE TABLE

NOTE: CURVE NUMBERS ARE SHOWN WITH 'O' ON PLAN

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA	DESCRIPTION
C1	34.98'	23.45'	12.19'	23.01'	N 54°40'40" W	38°24'49"	LOL
C2	155.00'	60.83'	30.81'	60.44'	S 62°38'27" E	22°29'15"	LOL
C3	190.00'	144.89'	76.17'	141.40'	N 73°14'58" W	43°41'52"	LOL
C4	55.00'	113.06'	91.14'	94.18'	S 28°01'17" W	117°46'41"	LOL
C5	80.00'	89.02'	49.75'	84.49'	S 64°44'39" E	63°45'11"	LOL
C6	180.00'	208.64'	117.82'	197.13'	S 63°24'52" E	66°24'43"	LOL
C7	295.00'	141.73'	72.26'	140.37'	N 43°48'25" W	27°31'35"	LOL
C8	300.00'	144.13'	73.48'	142.78'	N 43°48'25" W	27°31'35"	EP
C9	292.00'	134.52'	68.48'	133.33'	N 44°22'21" W	26°23'43"	EP
C10	64.00'	5.58'	2.79'	5.58'	N 87°55'21" E	04°59'58"	EP
C11	15.00'	28.16'	20.49'	24.21'	S 40°47'19" E	107°34'38"	EP
C12	15.00'	19.32'	11.26'	18.01'	N 49°33'59" E	73°47'58"	EP
C13	150.00'	107.66'	56.27'	105.37'	N 71°57'34" W	41°07'28"	EP
C14	195.00'	148.70'	78.18'	145.12'	N 73°14'56" W	43°41'52"	EP
C15	60.00'	47.78'	25.24'	46.53'	S 62°05'45" W	45°37'46"	EP
C16	10.00'	10.66'	5.90'	10.16'	S 68°48'48" W	61°03'50"	EP
C17	44.00'	4.04'	2.02'	4.04'	S 89°17'19" E	05°18'02"	EP
C18	5.00'	9.14'	6.49'	7.92'	N 32°32'03" W	104°46'32"	EP
C19	60.00'	55.21'	29.73'	53.28'	S 06°30'25" E	52°43'16"	EP
C20	85.00'	19.13'	9.61'	19.09'	S 39°18'59" E	12°53'52"	EP
C21	10.00'	16.70'	11.04'	14.83'	S 02°04'27" W	95°40'44"	EP
C22	44.27'	6.61'	3.31'	6.60'	S 54°11'28" W	08°33'18"	EP
C23	52.27'	13.72'	6.90'	13.68'	N 50°56'50" E	15°02'33"	EP
C24	10.00'	12.84'	7.48'	11.98'	N 80°12'30" E	73°33'52"	EP
C25	85.00'	49.88'	25.87'	49.15'	S 79°48'54" E	33°38'40"	EP
C26	175.00'	26.39'	13.22'	26.36'	N 87°41'57" E	08°38'22"	EP
C27	6.00'	9.76'	6.34'	8.72'	S 41°23'41" E	93°10'21"	EP
C28	4.00'	6.72'	4.46'	5.96'	N 53°19'18" E	96°15'38"	EP
C29	175.00'	147.64'	78.54'	143.30'	S 54°22'42" E	48°02'22"	EP
C30	2.50'	6.71'	4.87'	4.87'	N 60°43'37" E	153°50'54"	EP
C31	500.00'	108.46'	54.44'	108.25'	S 22°24'41" E	12°25'42"	EP
C32	91.70'	36.44'	18.47'	36.21'	N 40°00'40" W	22°48'17"	EP
C33	185.00'	141.08'	74.17'	137.68'	S 33°14'58" W	43°41'52"	EP
C34	50.00'	102.78'	82.85'	85.82'	S 28°01'17" W	117°46'42"	EP
C35	75.00'	83.45'	46.64'	79.21'	S 64°44'39" E	63°45'11"	EP
C36	185.00'	175.24'	94.82'	168.76'	S 69°28'05" E	54°18'18"	EP
C37	20.00'	29.01'	17.73'	26.53'	N 48°08'58" E	83°06'35"	EP
C38	20.00'	54.75'	37.80'	39.19'	S 48°10'27" W	156°50'22"	EP
C39	2500.00'	43.67'	21.83'	43.67'	N 26°52'26" W	01°00'03"	EP
C40	5.00'	11.34'	10.72'	9.06'	S 37°37'31" W	129°59'57"	EP
C41	215.00'	43.08'	21.61'	43.01'	N 71°38'06" W	11°28'47"	EP
C42	5.00'	9.83'	7.51'	8.32'	N 09°33'56" W	117°39'54"	EP
C43	101.21'	31.28'	15.77'	31.15'	N 37°54'37" E	174°22'28"	EP
C44	5.00'	10.87'	9.52'	8.85'	N 88°39'31" W	124°34'12"	EP
C45	5.00'	9.54'	7.05'	8.16'	N 24°21'10" W	109°17'29"	EP
C46	86.21'	34.10'	17.28'	33.88'	N 41°37'33" E	22°39'58"	EP
C47	5.00'	5.98'	3.40'	5.83'	N 87°12'34" E	68°30'03"	EP
C48	215.00'	6.27'	3.13'	6.26'	N 57°42'19" W	01°40'11"	EP

LINE TABLE

LINE	DIRECTION	DISTANCE
L1	N 35°28'15" W	9.92'
L2	N 78°59'55" W	12.55'
L3	N 05°11'29" E	7.00'
L4	N 84°48'31" W	18.00'
L5	N 05°11'29" E	5.78'
L6	N 58°28'07" E	16.47'
L7	S 31°31'53" E	8.00'
L8	S 58°28'07" W	16.47'
L9	S 05°04'40" W	8.00'



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REVISIONS



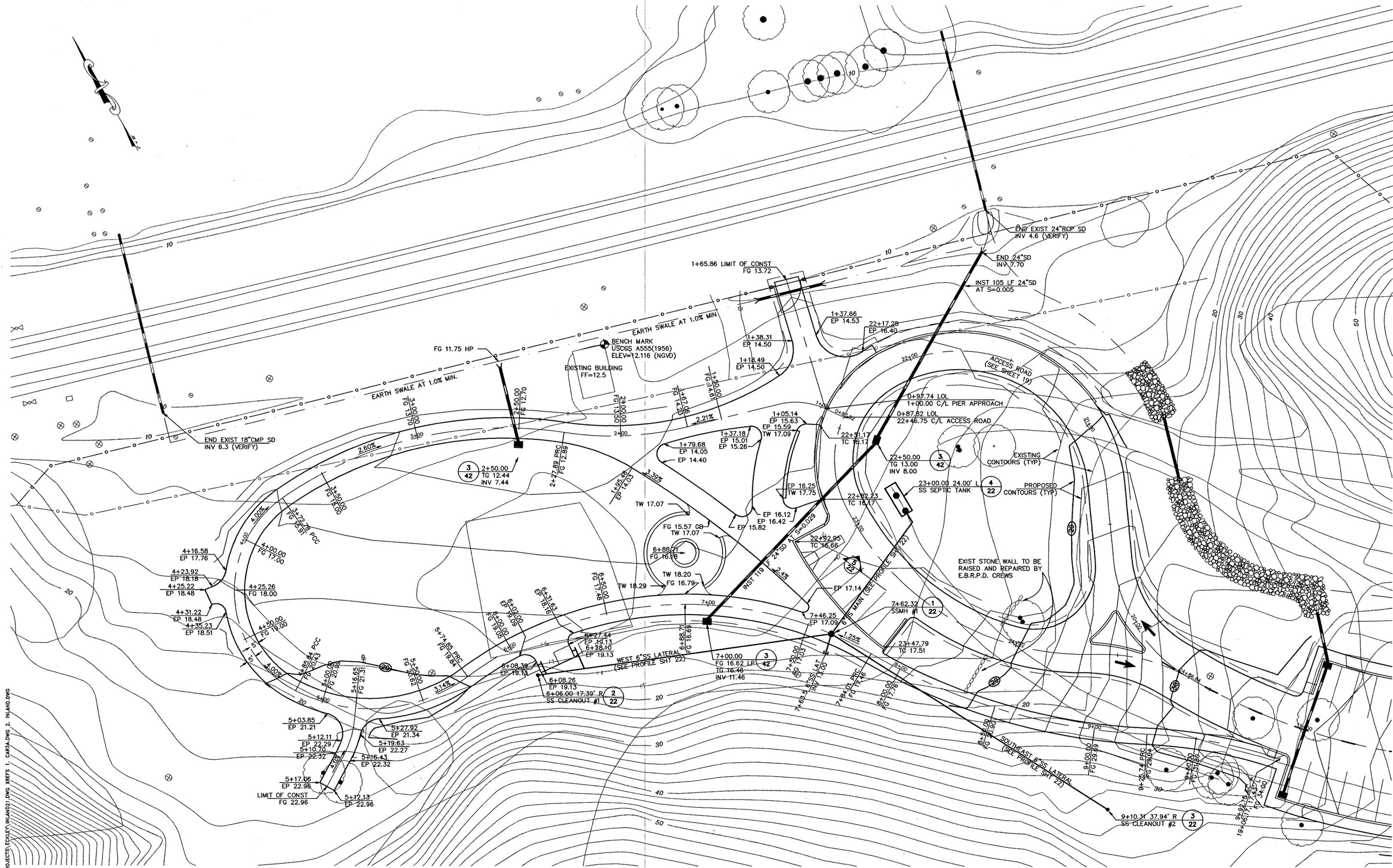
EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED: *[Signature]*
 design: *[Signature]*
 operations: *[Signature]*

scale: 1" = 20'
 drawn: JOB
 checked: ML
 date: 6-27-96

SITE LAYOUT PLAN AT LANDSCAPE AREA
 INLAND IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CALIFORNIA
 PROJECT NO. 695A CONTRACT NO. 15-96-69

SHEET NO. **20**
 OF 4E



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REVISIONS



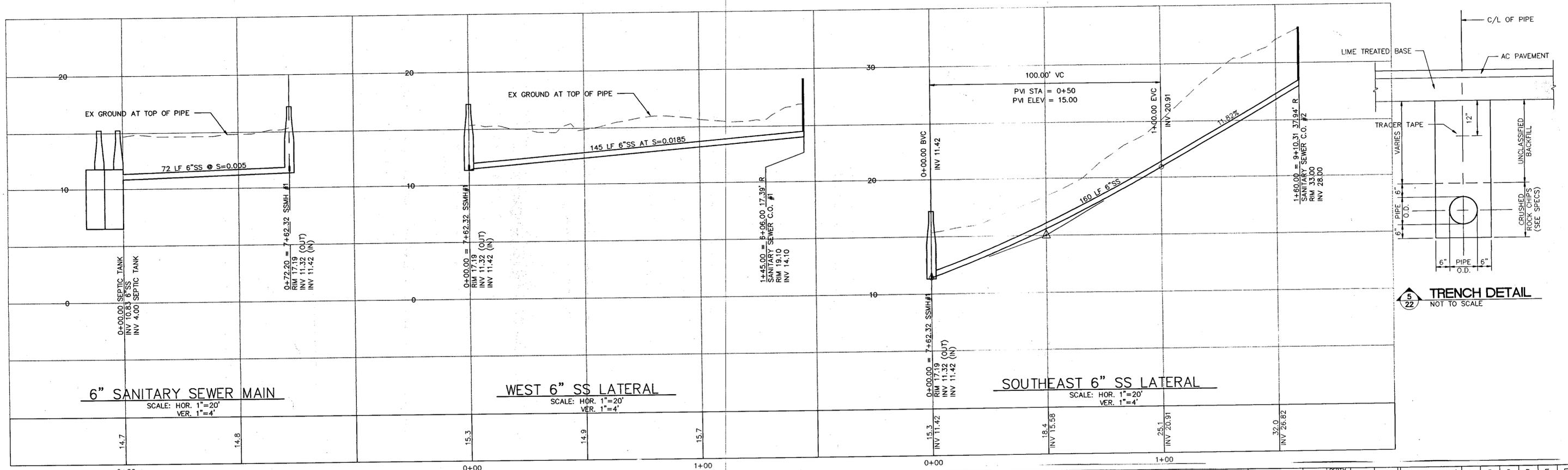
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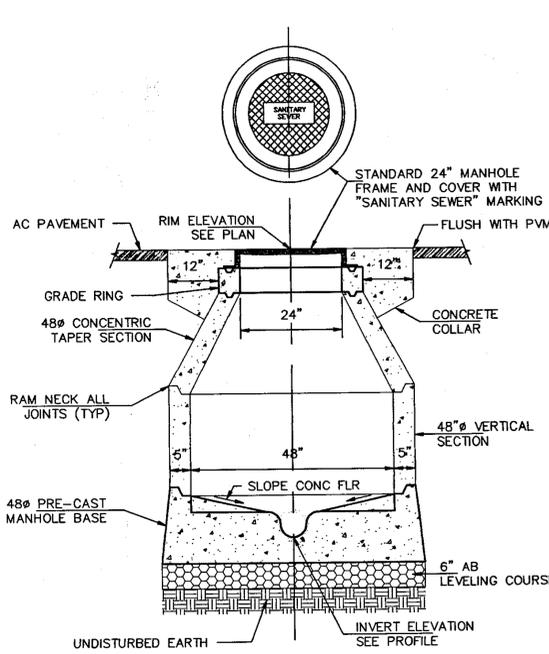
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GRADING PLAN AT LANDSCAPE AREA
 INLAND IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CALIFORNIA
 PROJECT NO. 695A CONTRACT NO. 15-96-69

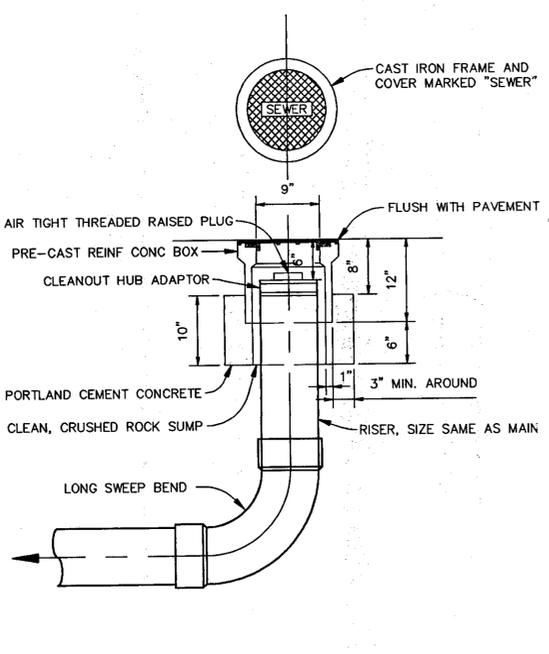
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 OF: 45



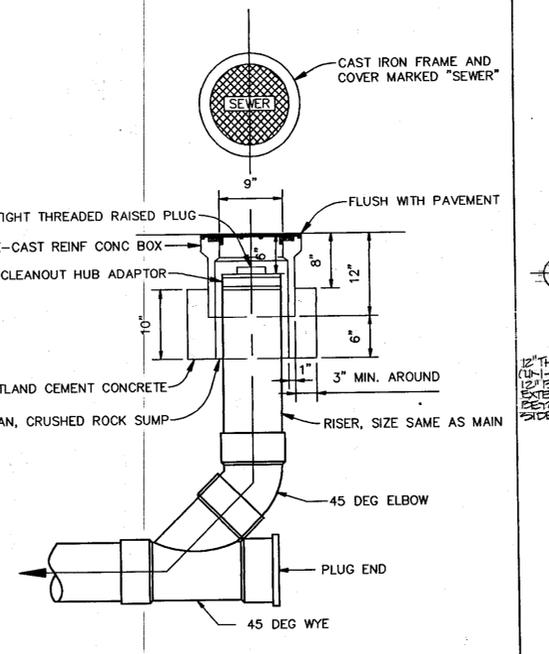
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1/22 DETAIL SANITARY SEWER MANHOLE NOT TO SCALE



2/22 DETAIL SANITARY SEWER CLEANOUT #1 NOT TO SCALE



3/22 DETAIL SANITARY SEWER CLEANOUT #2 NOT TO SCALE

EXCAVATION SPECIFICATIONS	BATTERY DEPTH BELOW INLET	LENGTH	WIDTH	CAPACITY (GALS)	A	B	C	D	E	F	
	2000	4'-4"	19'-0"	9'-0"	2000	4'-4"	5'-3"	5'-11"	4'-3"	4'-1"	4'-2"

NOTES:
 1. STRUCTURAL CALCULATIONS AVAILABLE UPON REQUEST.
 2. MATERIAL SPECIFICATIONS:
 A. CONCRETE, PORTLAND CEMENT TYPE II, MINIMUM COMPRESSIVE STRENGTH 3000 PSI AT 28 DAYS.
 B. REINFORCING BAR INTERMEDIATE GRADE ASTM A615.
 C. REINFORCING WELDED WIRE MESH ASTM A185.
 3. PRE-CAST UNIT COATED INSIDE AND OUT WITH AN APPROVED PROTECTIVE COATING.
 4. ALL DIMENSIONS + OR - NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED.
 5. PRE-CAST UNIT TO BE PLACED ON NATURAL SOIL OR APPROVED COMPACTED FILL.
 6. INTERNAL FITTINGS & SEWER AND DRAIN UPC APPROVED.
 7. STANDARD GROUND WATER SEAL-BUTYL ROPE MASTIC OR CEMENT MORTAR.
 8. IRON MANHOLE COVERS AND GRATES TO BE RATED FOR VEHICULAR TRAFFIC, MARKED SEWER, SUBMIT MODEL FOR APPROVAL.

LONGITUDINAL SECTION SEPTIC TANK

M. C. NOTTINGHAM CO. OF CALIFORNIA 890 SOUTH ARROYO PKWY. PASADENA CALIFORNIA 91105	HYGI PRECAST CONCRETE SEPTIC TANK BATTERY CAPACITY 2000 GALLONS	DWG. NO. 8005 SCALE 3/8"=1'-0"	DATE 8-24-78 SHEET 1 OF 1	DRAWN: GW, WE. CHKD. REVISED []
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REVISIONS

EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED: [Signature]
 design: [Signature]
 operations: [Signature]

scale: AS SHOWN
 drawn: JOB
 checked: ML
 date: 6-27-96

SANITARY SEWER PROFILES/DETAILS
INLAND IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CALIFORNIA

PROJECT NO. 695A CONTRACT NO. 15-96-69

SHEET NO. 22 OF 45

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REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED

design: *[Signature]*

operations: *Ray Lawson*

scale: H:1"=40' V:1"=4'

drawn: JOB

checked: ML

date: 6-27-96

CROSS SECTION - ACCESS ROAD (13+50.00-15+25.00)

INLAND IMPROVEMENT PLANS

ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA

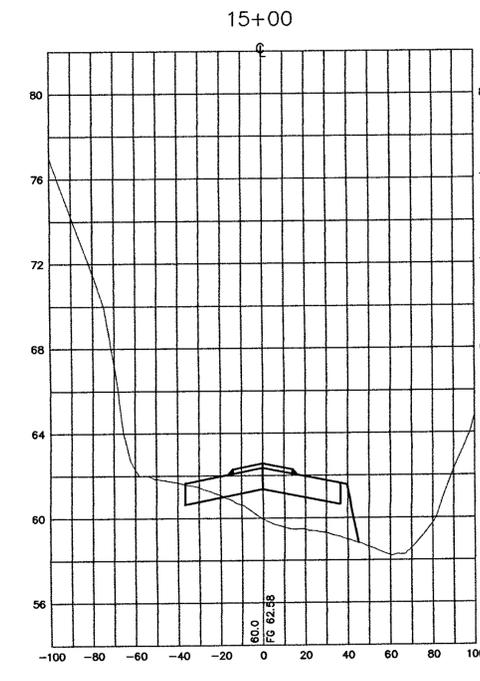
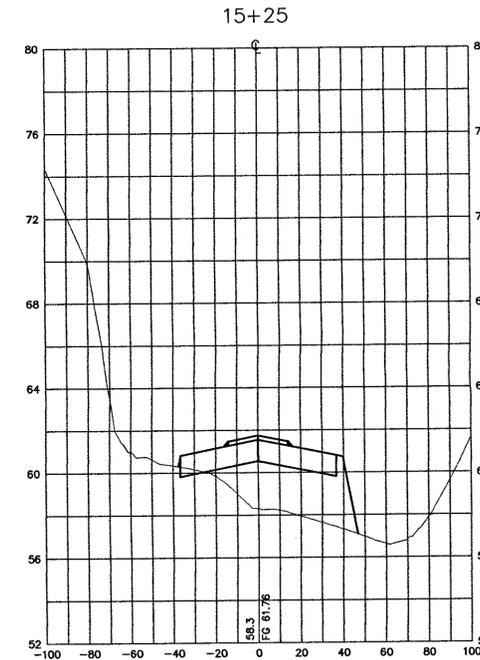
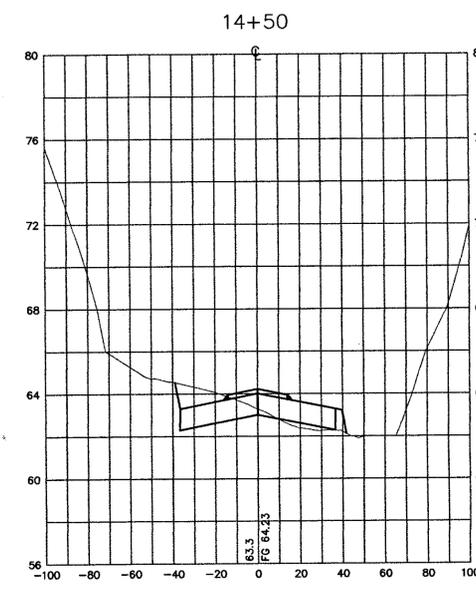
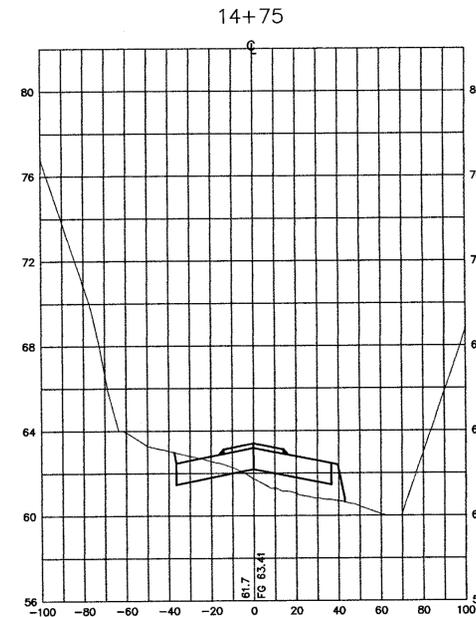
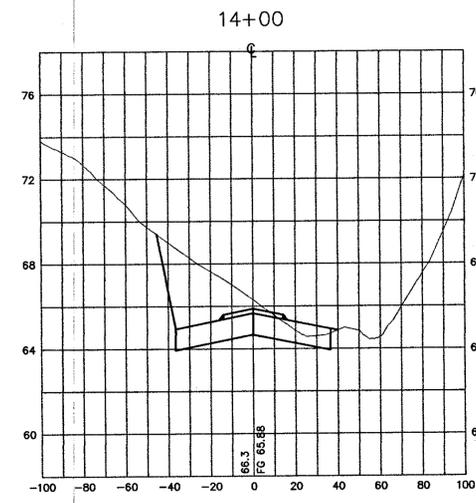
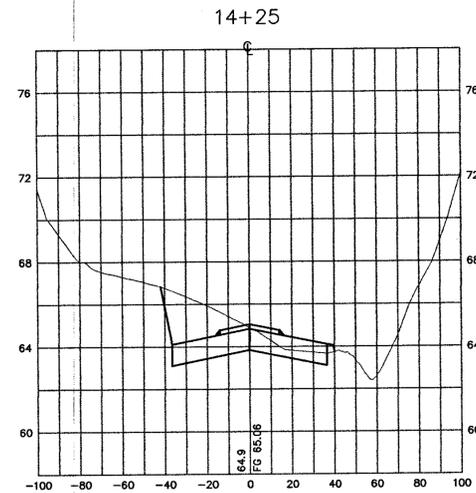
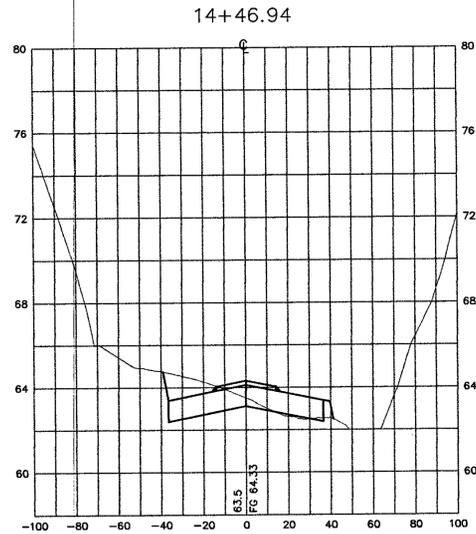
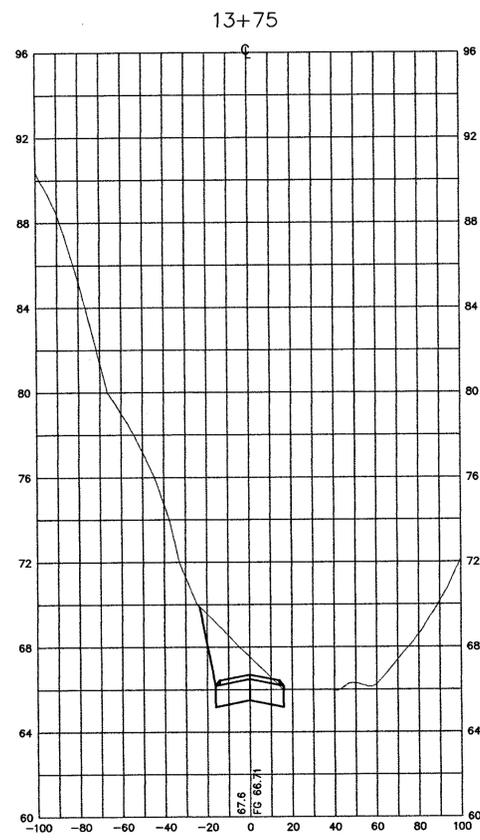
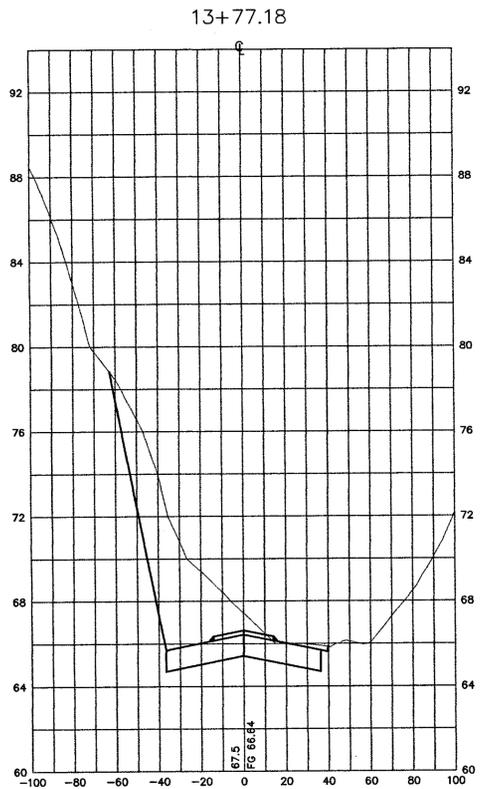
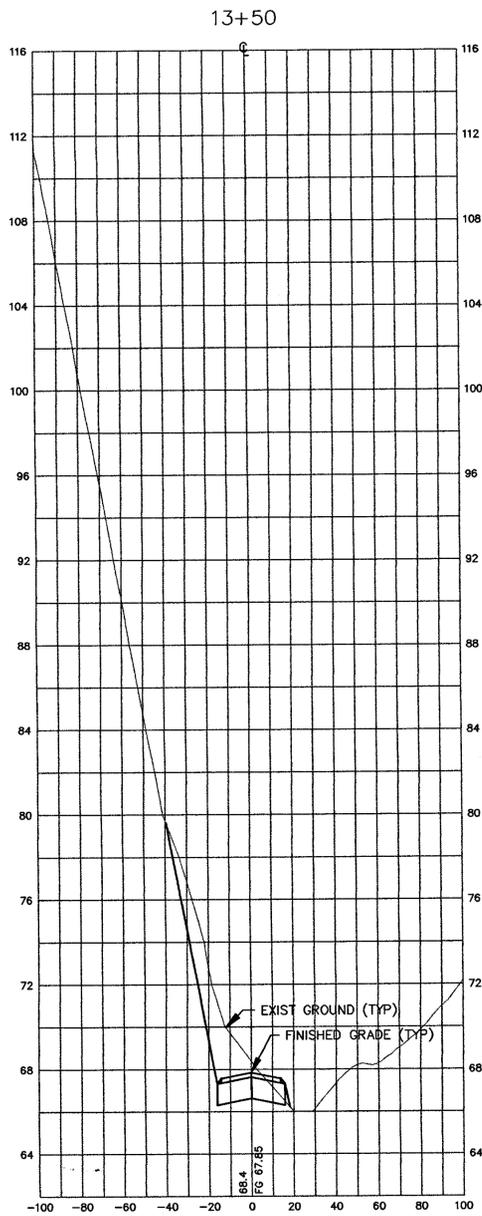
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CONTRACT NO. 15-96-69

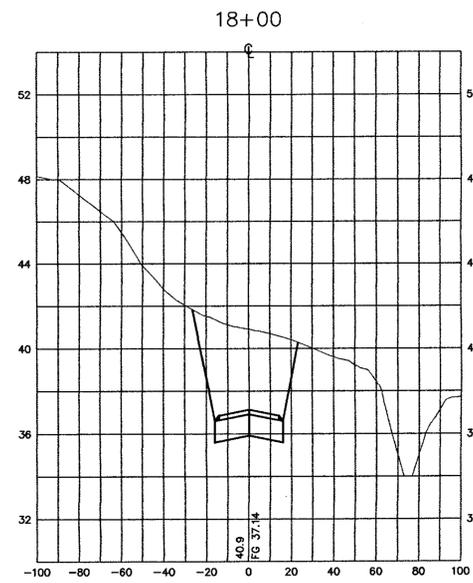
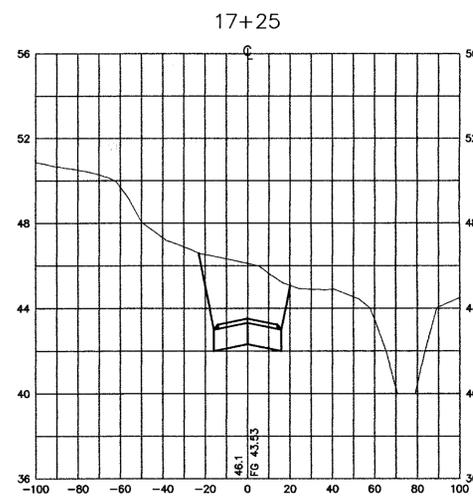
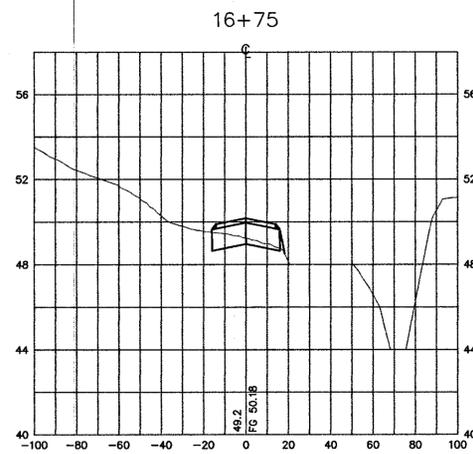
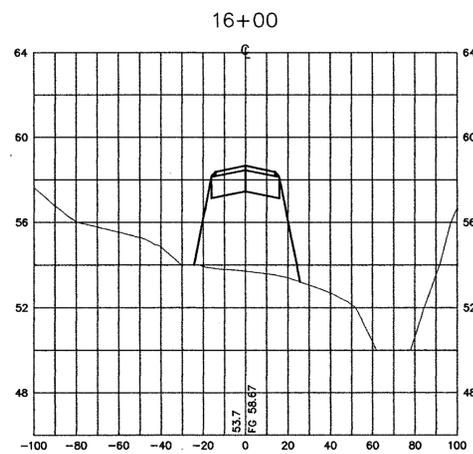
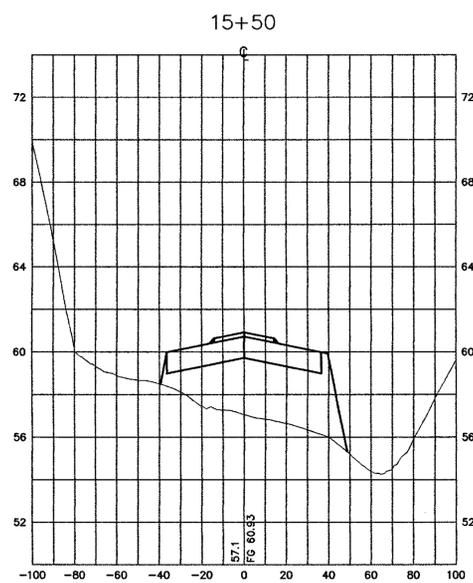
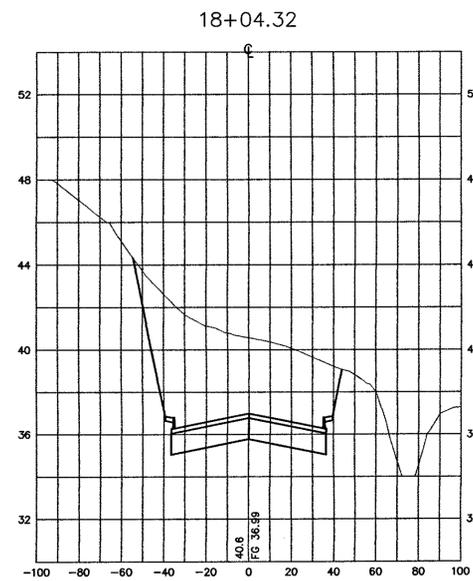
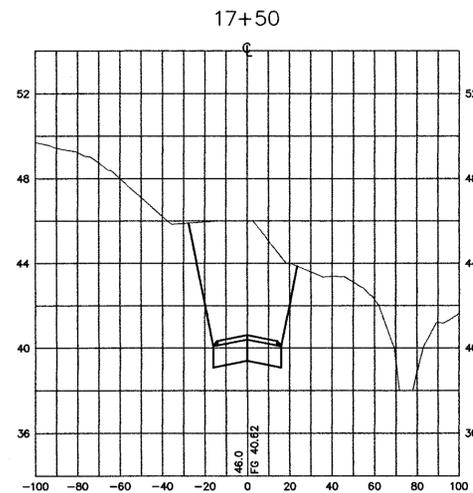
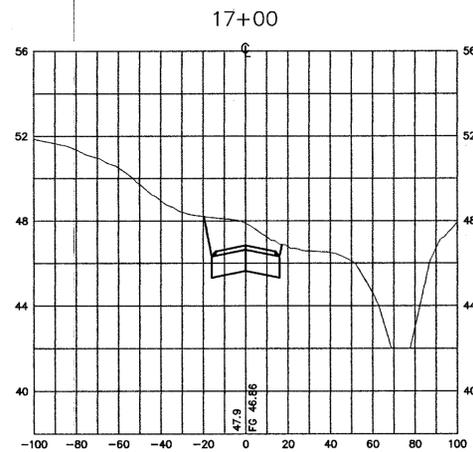
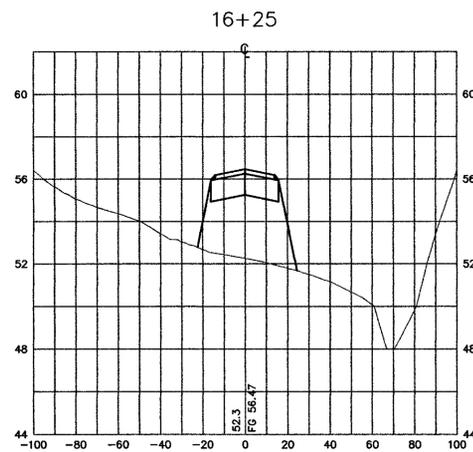
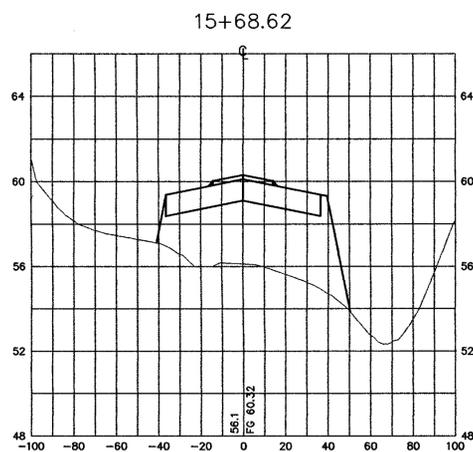
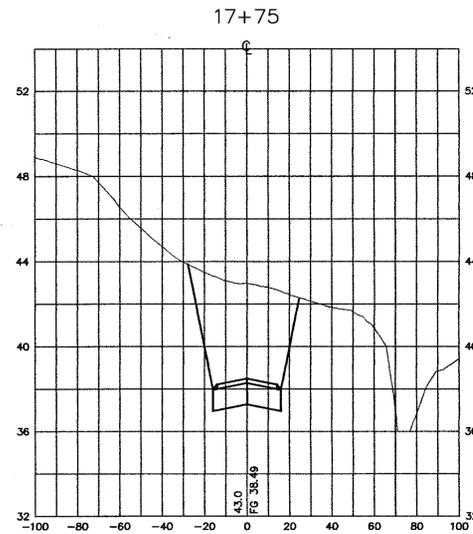
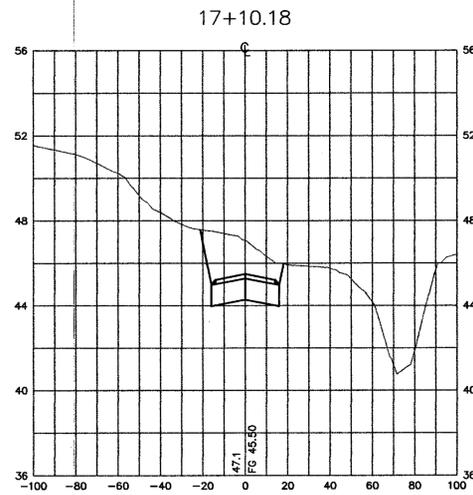
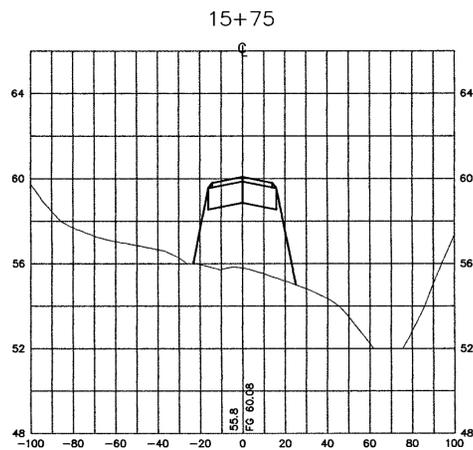
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23

OF: 45



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REVISIONS



EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

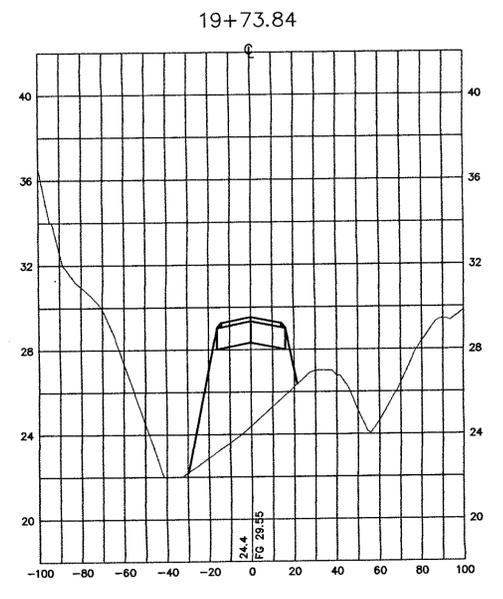
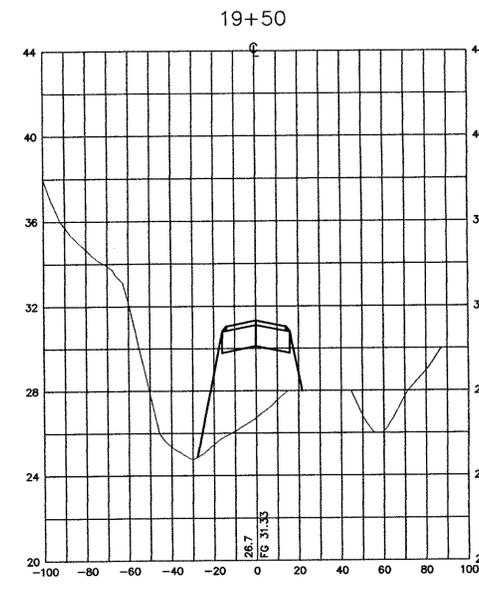
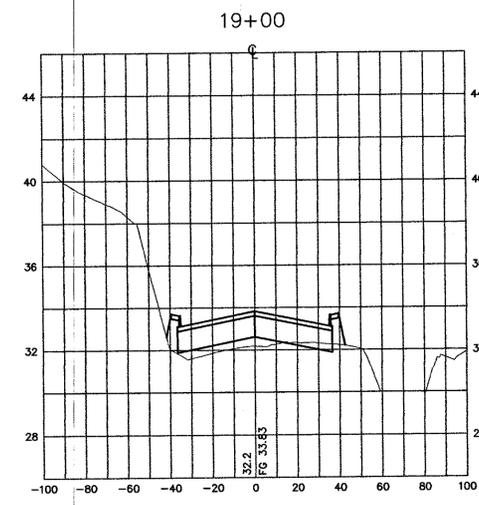
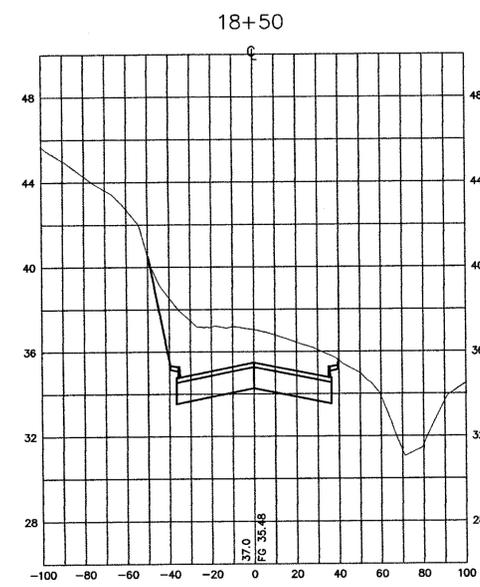
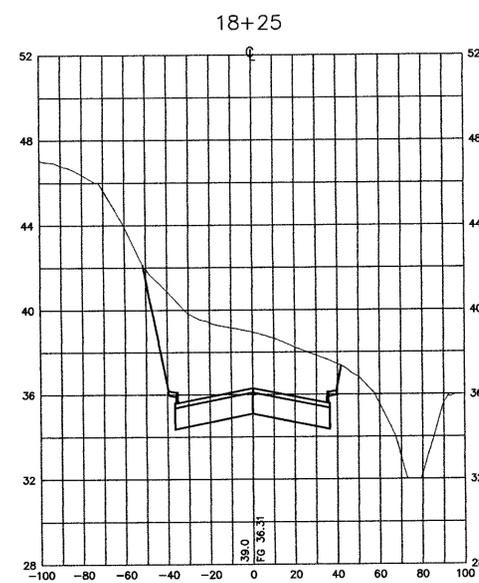
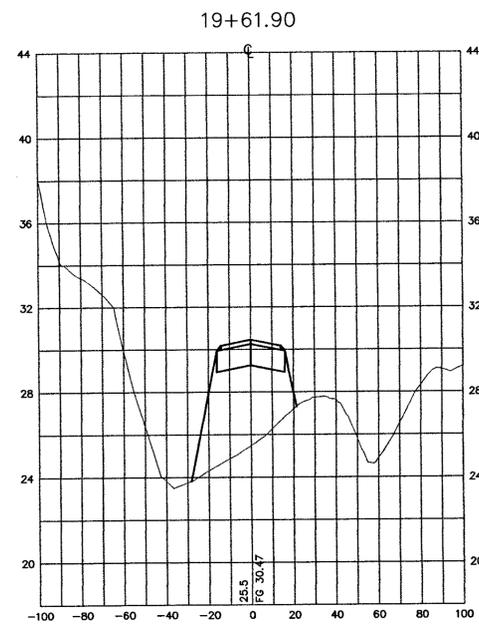
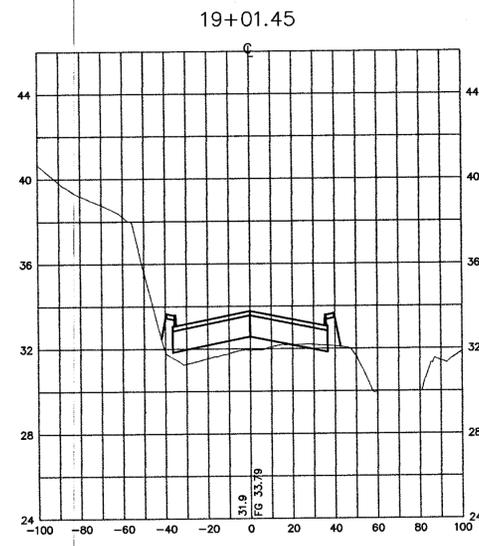
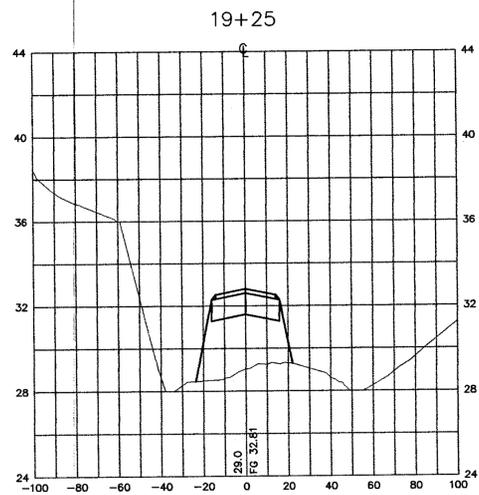
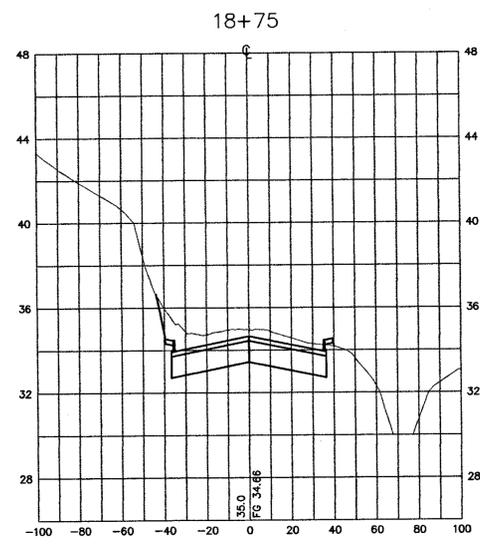
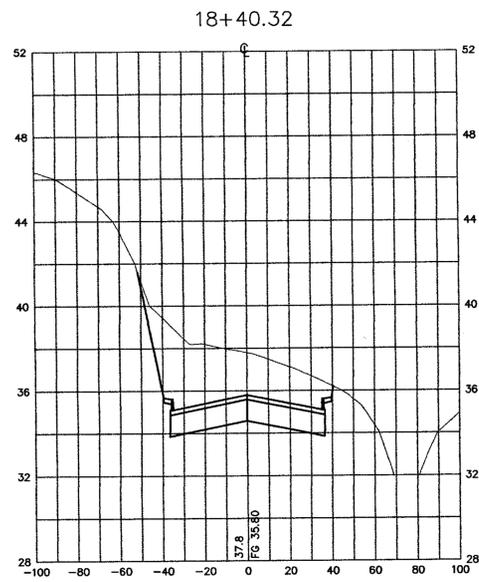
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 operations: *[Signature]*

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 checked: ML
 date: 6-27-96

CROSS SECTION - ACCESS ROAD (15+50.00-18+04.32)
 INLAND IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CALIFORNIA
 PROJECT NO. 695A CONTRACT NO. 15-96-69

SHEET NO.
24
 OF: 45

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REVISIONS



EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
 design: *[Signature]*
 operations: *Ray Dawson*

scale: H:1"=40' V:1"=4'
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 checked: ML
 date: 6-27-96

CROSS SECTION - ACCESS ROAD (18+25.00-19+73.84)
 INLAND IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CALIFORNIA
 PROJECT NO. 695A CONTRACT NO. 15-96-69

SHEET NO.
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 OF: 45

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REVISIONS



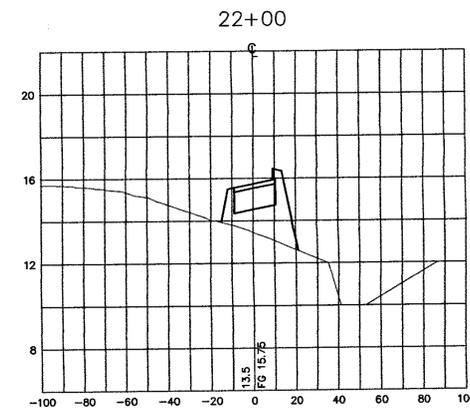
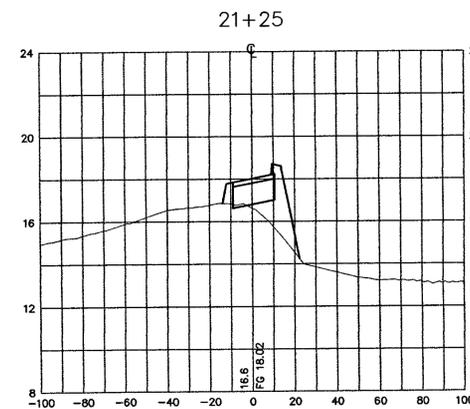
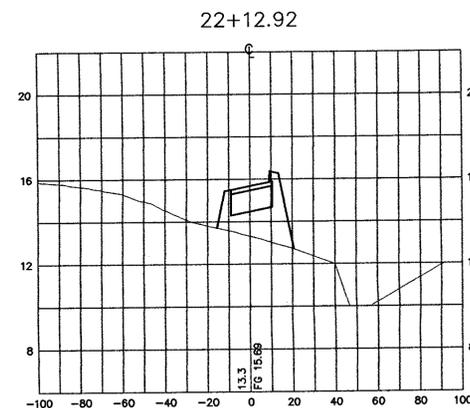
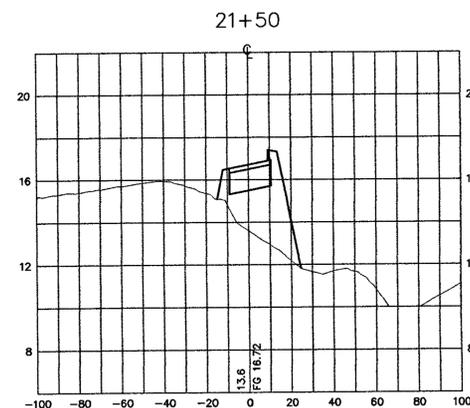
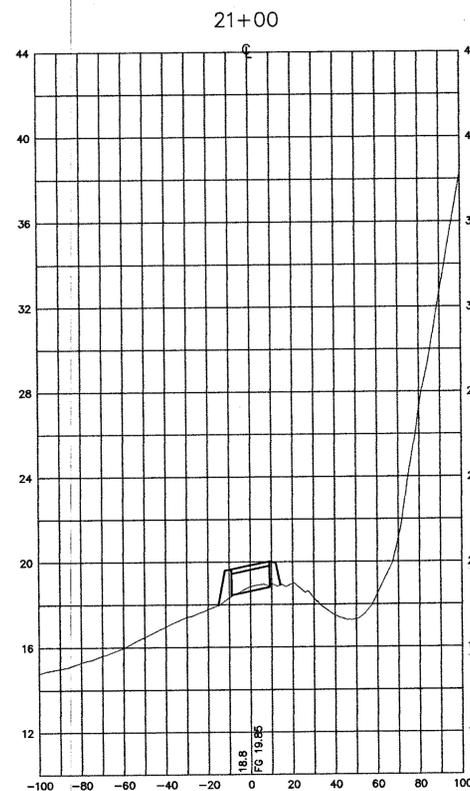
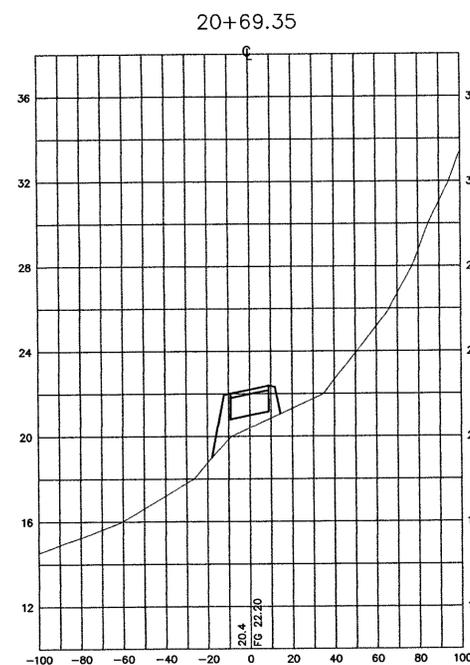
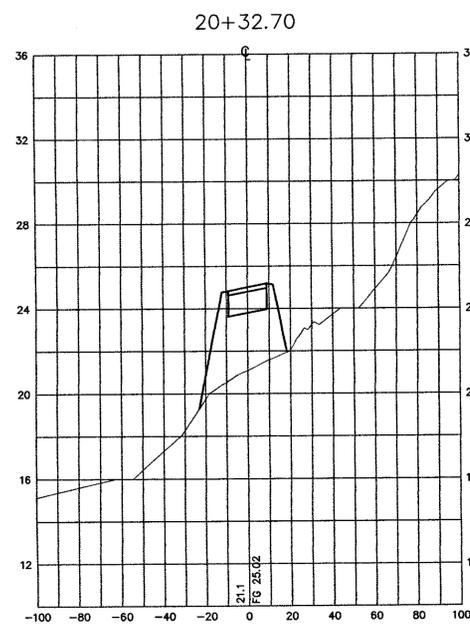
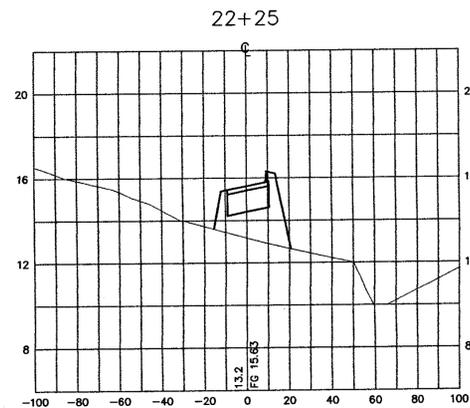
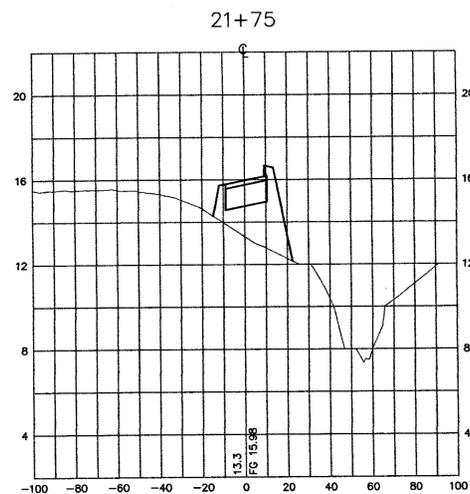
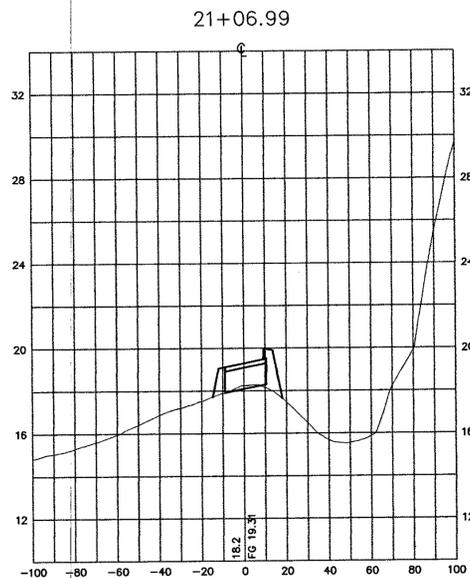
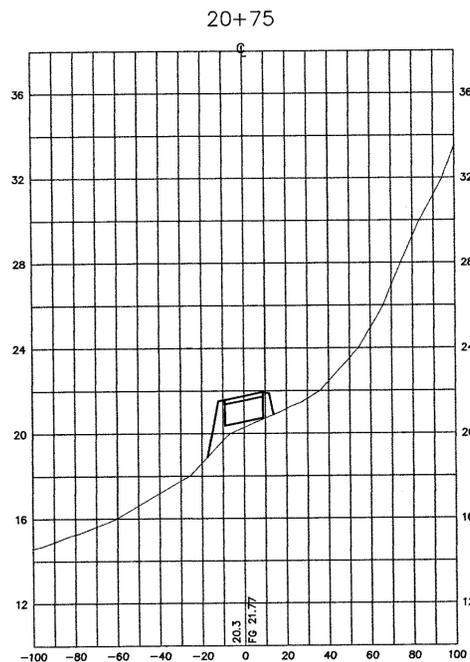
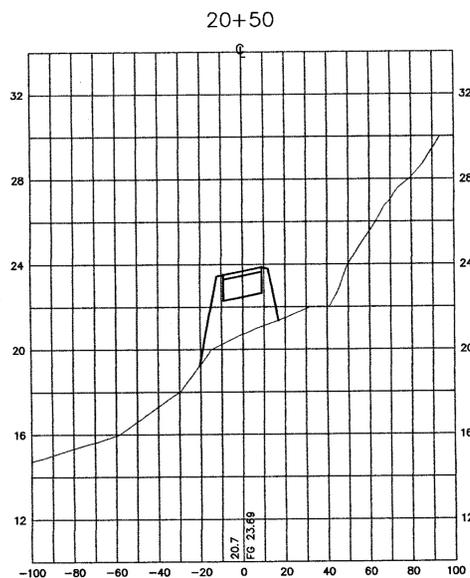
EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design:
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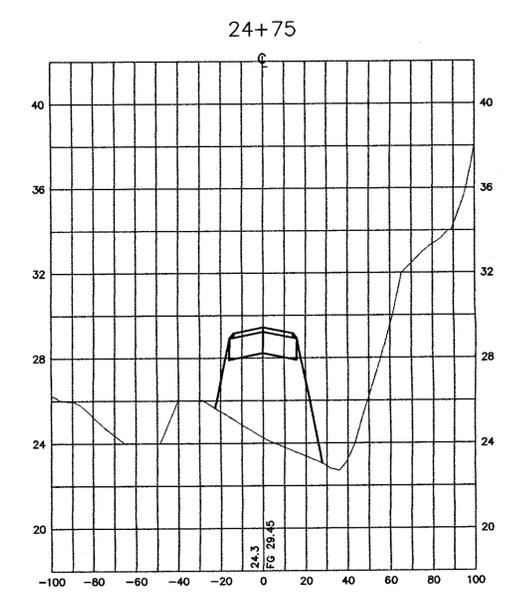
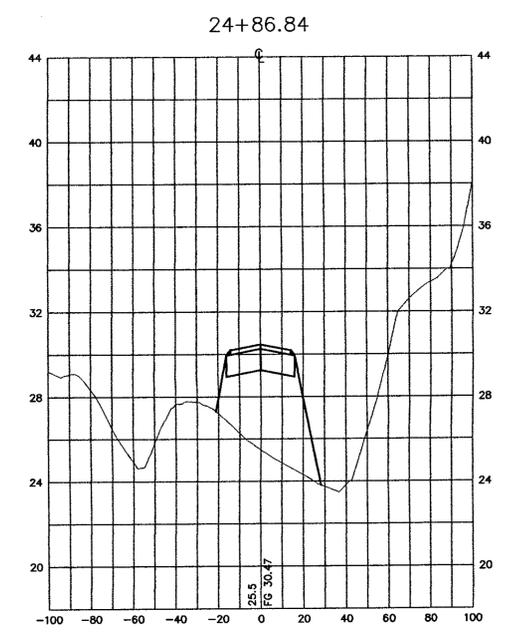
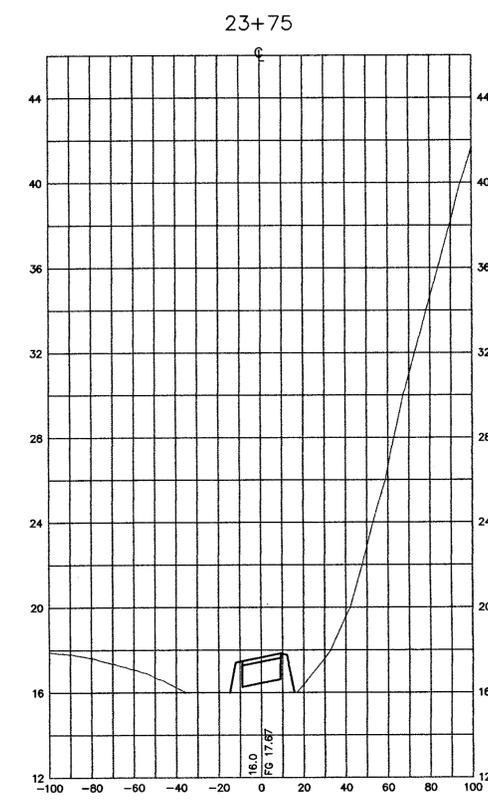
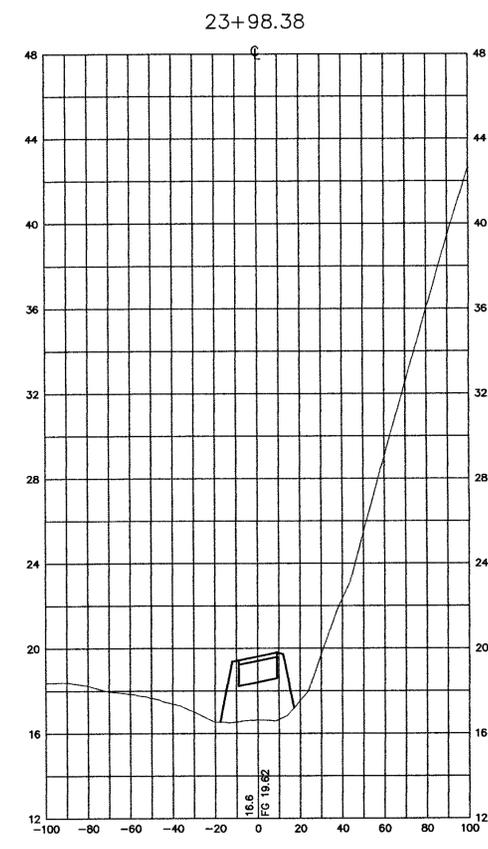
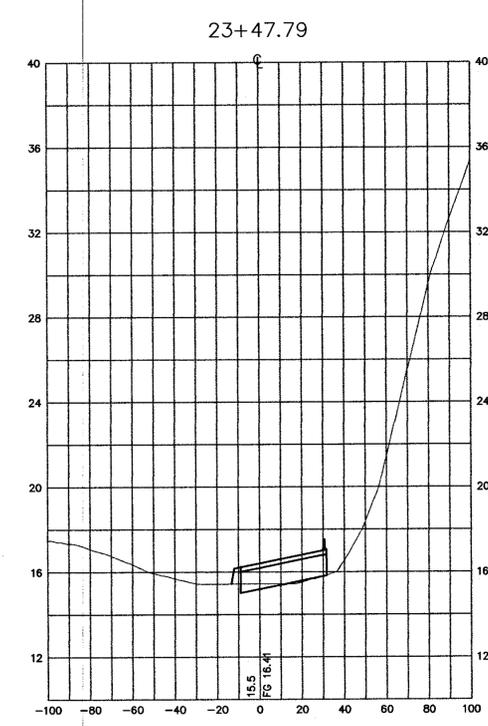
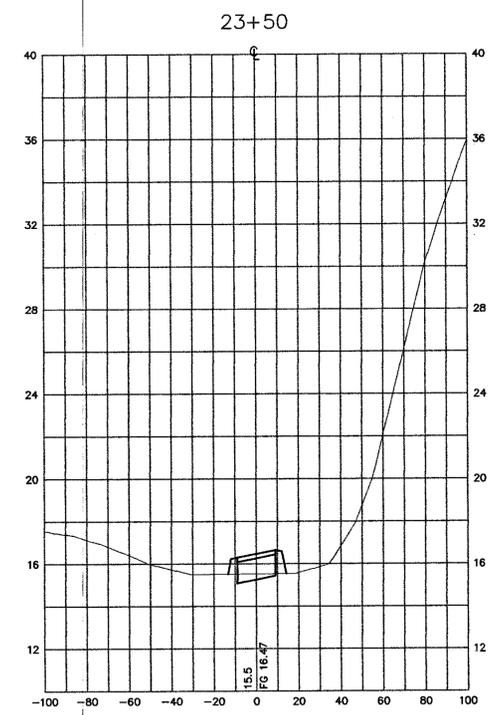
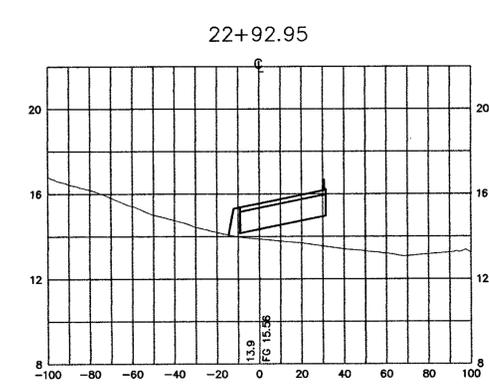
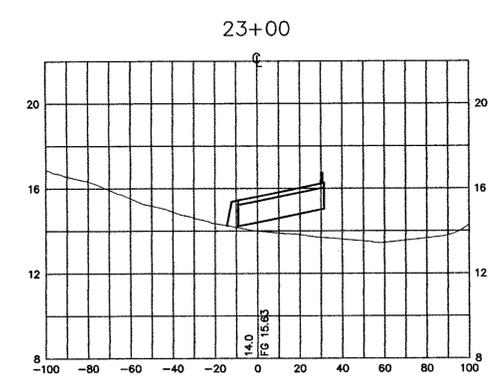
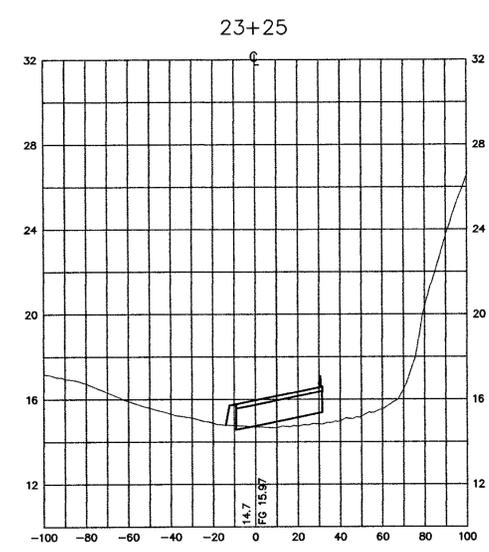
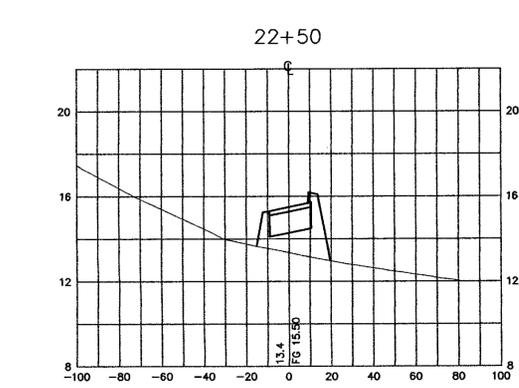
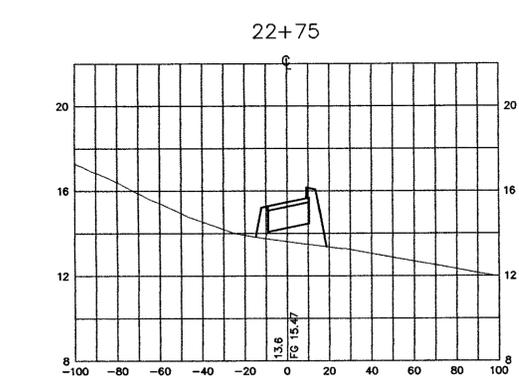
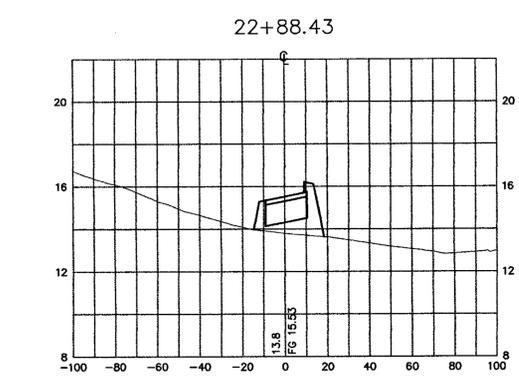
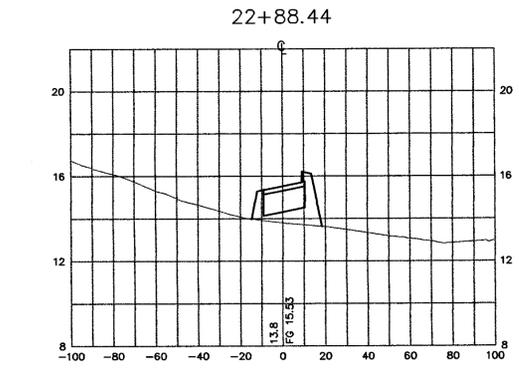
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drawn: JOB
checked: ML
date: 6-27-96

CROSS SECTION - ACCESS ROAD (20+32.70-22+25.00)
INLAND IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NO. 695A CONTRACT NO. 15-96-69

SHEET NO.
26
OF: 45



C:\PROJECTS\ECKLEY\INLAND\27.DWG XREFS: 1. ECKLEY-A.DWG



REVISIONS



EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

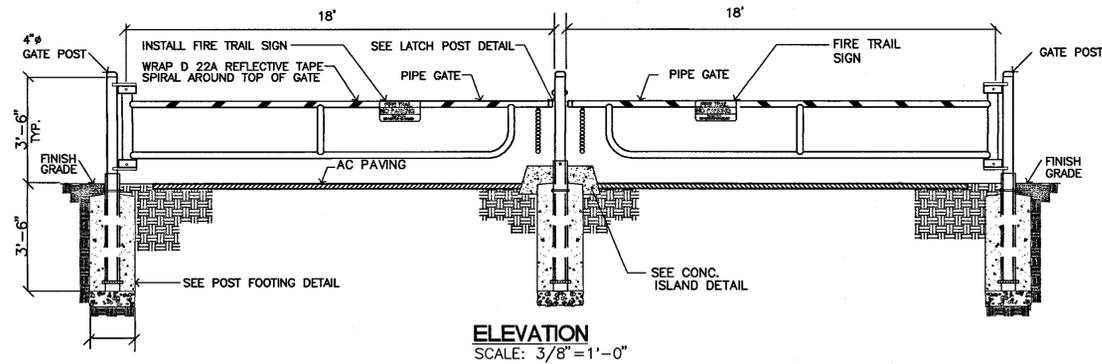
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 operations: *Ray Dawson*

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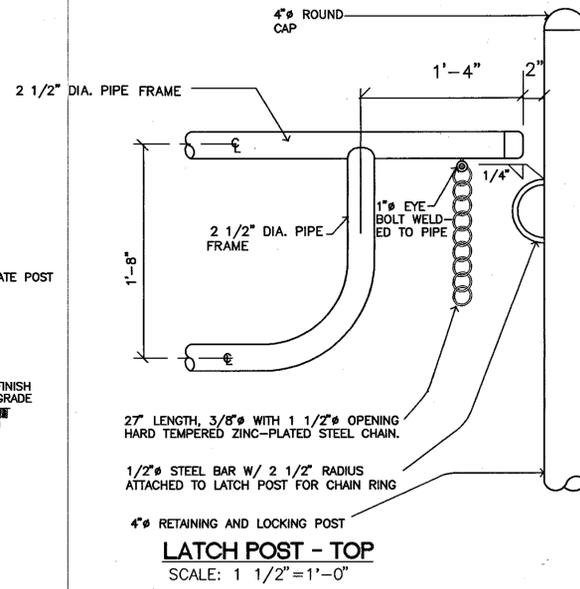
CROSS SECTION - ACCESS ROAD (22+50.00-24+86.84)
 INLAND IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CALIFORNIA
 PROJECT NO. 695A CONTRACT NO. 15-96-69

SHEET NO. **27**
 OF: 45

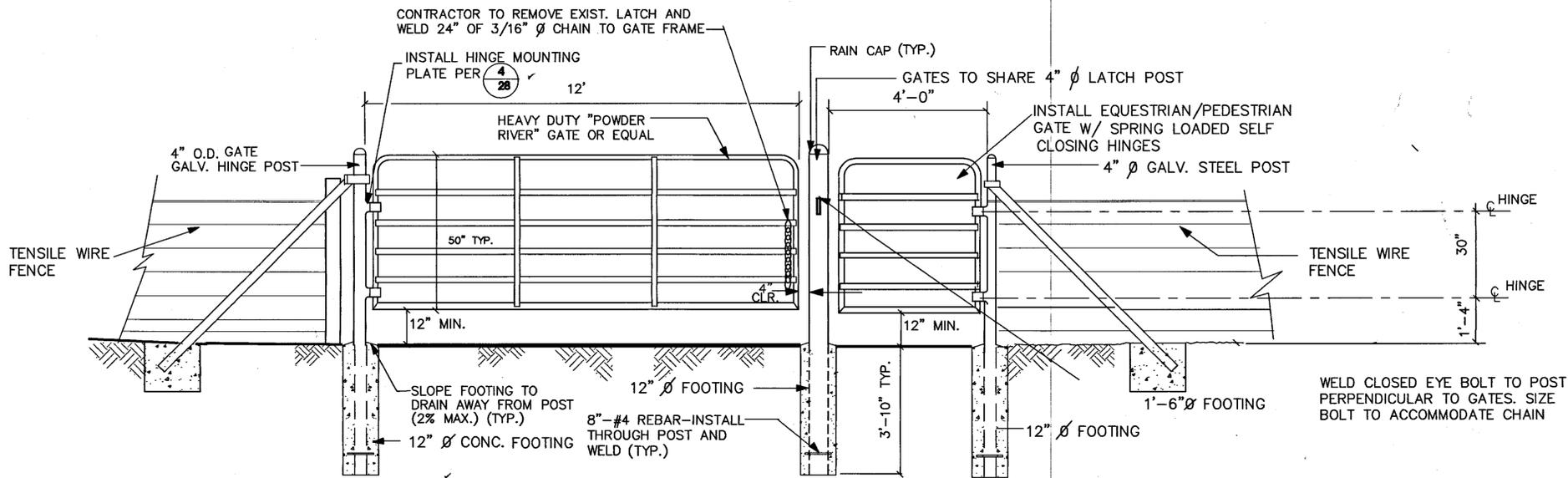
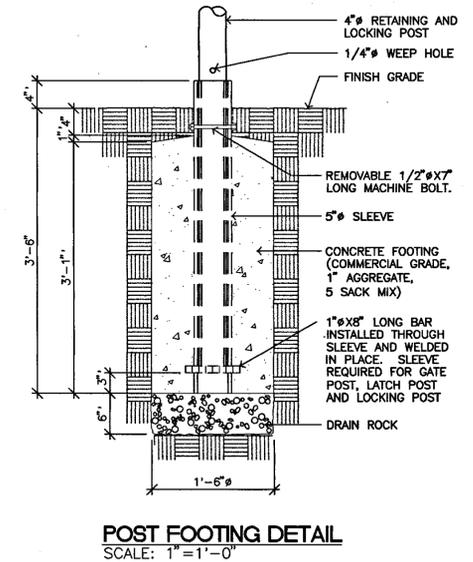
- NOTES:
1. ALL METAL PARTS TO BE PAINTED W/ TWO COATS OF "TRAIL BROWN" INDUSTRIAL ENAMEL.
 2. E.B.R.P.D. TO PROVIDE PIPE GATE, GATE POSTS SLEEVE AND HARDWARE.
CONTRACTOR TO PICK UP THESE ITEMS AT TILDEN CORPORATION
2501 GRIZZLEY PEAK AVE. BERKELEY, CA
CALL (510) 843-2608 TO COORDINATE PICKUP.
 3. CONTRACTOR TO INSTALL PIPE GATE, POSTS, SLEEVES, AND CONCRETE FOOTINGS.



1 DOUBLE 18 FT WIDE PIPE GATES AT STA. 1+26A
28 SCALE: AS SHOWN

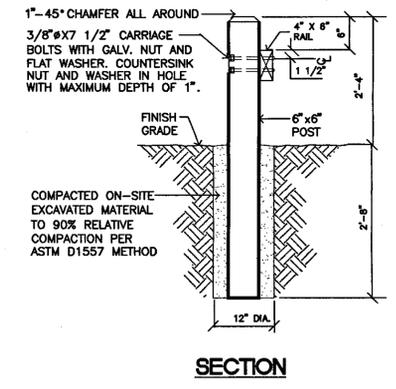


NOTE:
DETAIL TO BE USED FOR GATE POST, LATCH POST AND LOCKING POST.

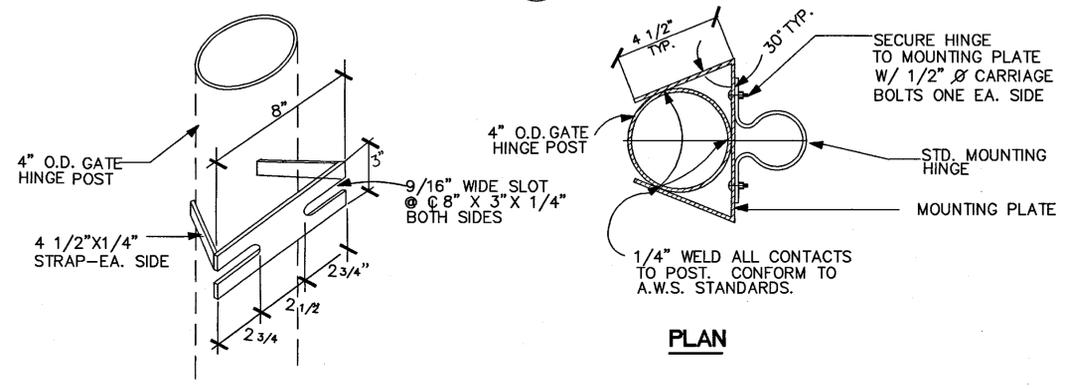


METAL GATE NOTES:

1. GATES TO BE HEAVY DUTY "POWDER RIVER" GATES OR EQUAL WITH CHAIN LATCH.
2. ALL WELDS TO BE PAINTED W/ ZINC METAL PAINT.
3. CONC. FOOTING TO BE COMMERCIAL GRADE, 1" AGGREGATE, 5 SACK MIX, MINIMUM.
4. GALV. POSTS TO BE TREATED WITH ACID WASH AND THEN PAINTED W/ 2 (TWO) COATS OF TRAIL BROWN PAINT. PAINT TO BE SUPPLIED BY E.B.R.P.D.
5. GATES MAY BE AVAILABLE FROM:
LIVERMORE FEED & GRAIN
3170 4TH STREET
LIVERMORE, CA. 94550
(510) 447-4203
6. ALL FABRICATED HARDWARE TO BE HOT-DIP GALVANIZED.



- NOTES:
1. ALL POSTS TO BE PRESSURE TREATED ROUGH DOUGLAS FIR, #2 OR BETTER. PRESSURE TREATMENT SHALL BE CHEMONITE A.C.Z.A., 40 RETENTION.
 2. ALL RAILS TO BE DOUGLAS FIR, #2 OR BETTER, S4S.
 3. STAIN WITH TWO(2) COATS OF SOLID LATEX STAIN IN OXFORD BROWN.
 4. SPLICING OF RAILS SHALL OCCUR ONLY ON CENTERLINE OF POST, AND ONLY ON ALTERNATE POSTS. PROVIDE 2 BOLTS FOR EACH RAIL MEMBER AT EVERY SPLICE.
 5. INSTALL ALL POSTS PLUMB AND SECURED. COMPACTION OF BACKFILL SHALL BE DONE IN 6" LAYERS.
 6. LOCATE ALL ADJACENT UNDERGROUND UTILITIES BEFORE EXCAVATING POST HOLES.
 7. CAREFULLY DRILL AND INSTALL BOLTS LEVEL AND PERPENDICULAR TO POST FACE TO PRODUCE EVEN AND EQUIDISTANT HEAD AND NUT PATTERNS.



2 ONE RAIL FENCE
28 NOT TO SCALE

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
510/635-0135

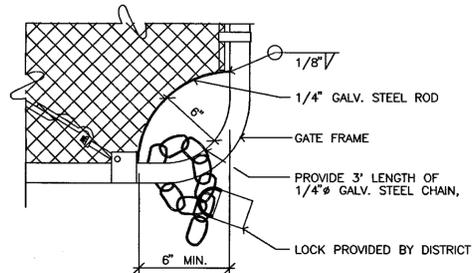
APPROVED
designed by
checked by
operations Ray Johnson

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scale: AS SHOWN
drawn: JM
checked:
date: 6-27-96

CONSTRUCTION DETAILS
INLAND IMPROVEMENTS PLAN
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CA
PROJECT NO. 006A CONTRACT NO. 15-06-00

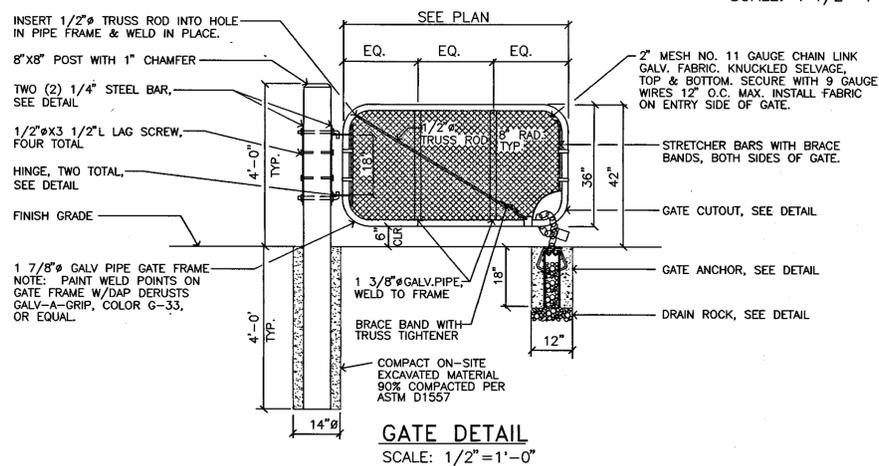
SHEET NO.
28
OF 45

1 TRAIL ENTRY STRUCTURE
SCALE: 1/2"=1'-0"



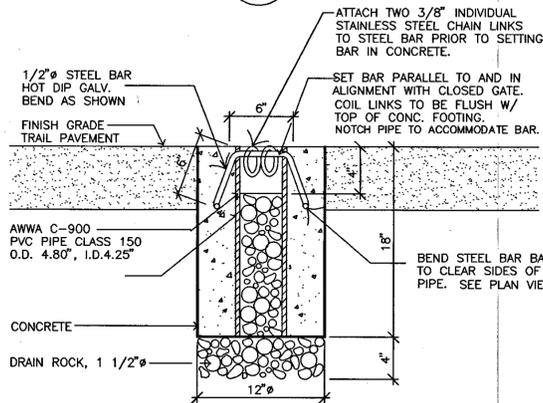
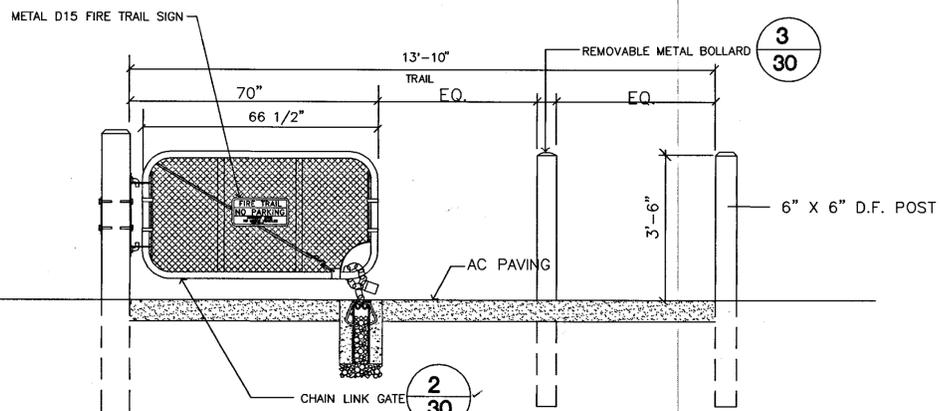
GATE CUT-OUT DETAIL
SCALE: 1 1/2"=1'-0"

- NOTES:
1) ALL HARDWARE SHALL BE HOT-DIPPED GALVANIZED.
2) GRIND SMOOTH ALL WELDS AND EASE ALL CUT EDGES.
3) PAINT WOOD POST PER SPECS.

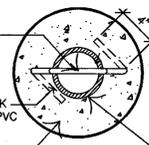


GATE DETAIL
SCALE: 1/2"=1'-0"

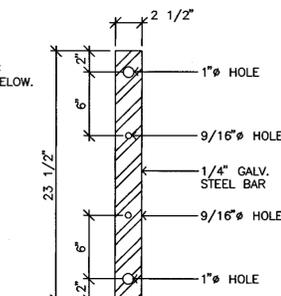
2 CHAIN LINK GATE
SCALE: 1/2"=1'-0"



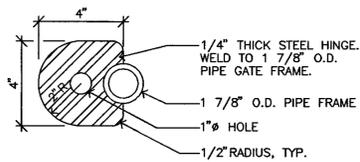
SECTION



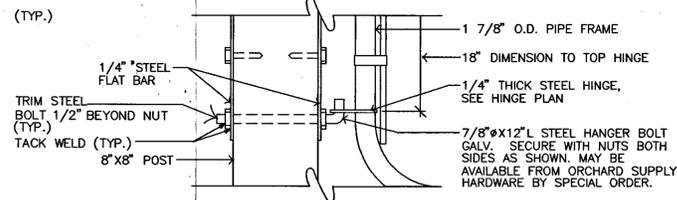
GATE ANCHOR DETAIL
SCALE: 1 1/2"=1'-0"



STEEL BAR DETAIL
SCALE: 1 1/2"=1'-0"

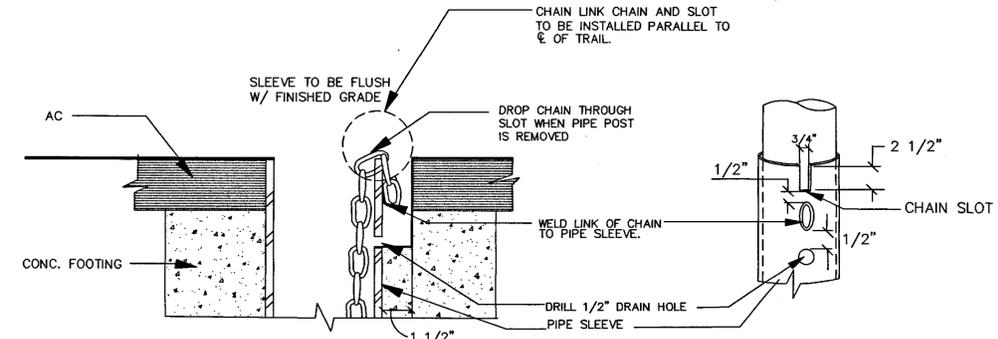


HINGE PLAN
SCALE: 3"=1'-0"



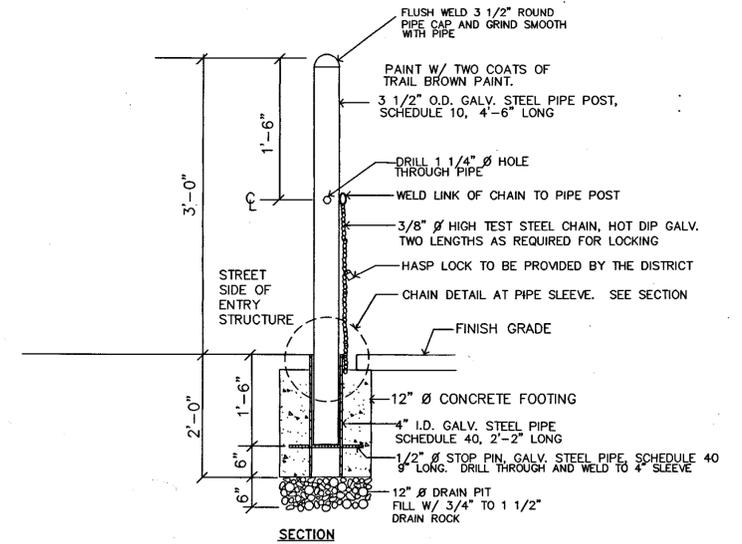
HINGE SECTION
SCALE: 1 1/2"=1'-0"

- NOTES:
1) SIGNS & SIGN INSTALLATION HARDWARE TO BE FURNISHED BY DISTRICT UPON ADVANCE NOTICE OF 7 WORKING DAYS TO DISTRICT INSPECTOR.
2) INSTALL ALL SIGNS ON ENTRY SIDE OF GATE.
3) LOCATE ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO ANY EARTH EXCAVATION.



SECTION-CHAIN DETAIL
NOT TO SCALE

SLOT DETAIL
NOT TO SCALE



SECTION

3 REMOVABLE BOLLARD
NOT TO SCALE

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

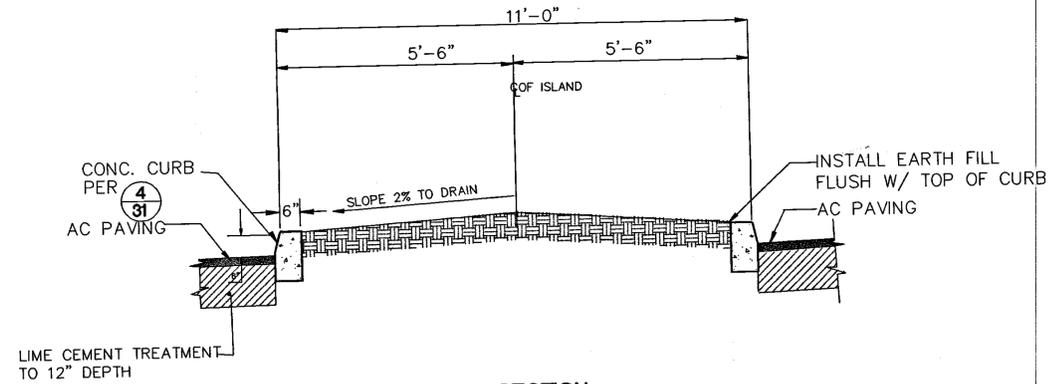
APPROVED
design: *Rainaldson*
operations:

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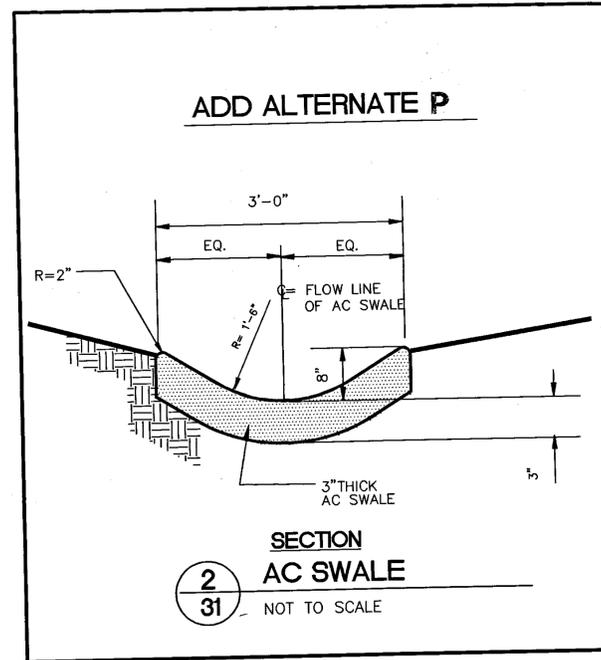
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checked:
date: 6-27-96

CONSTRUCTION DETAILS
INLAND IMPROVEMENTS PLAN
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CA
PROJECT NO. 095A CONTRACT NO. 15-96-09

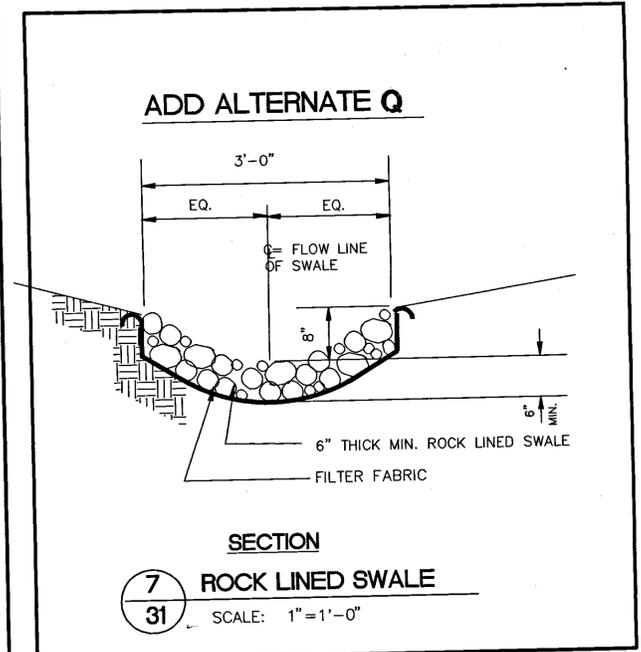
SHEET NO.
30
OF 45



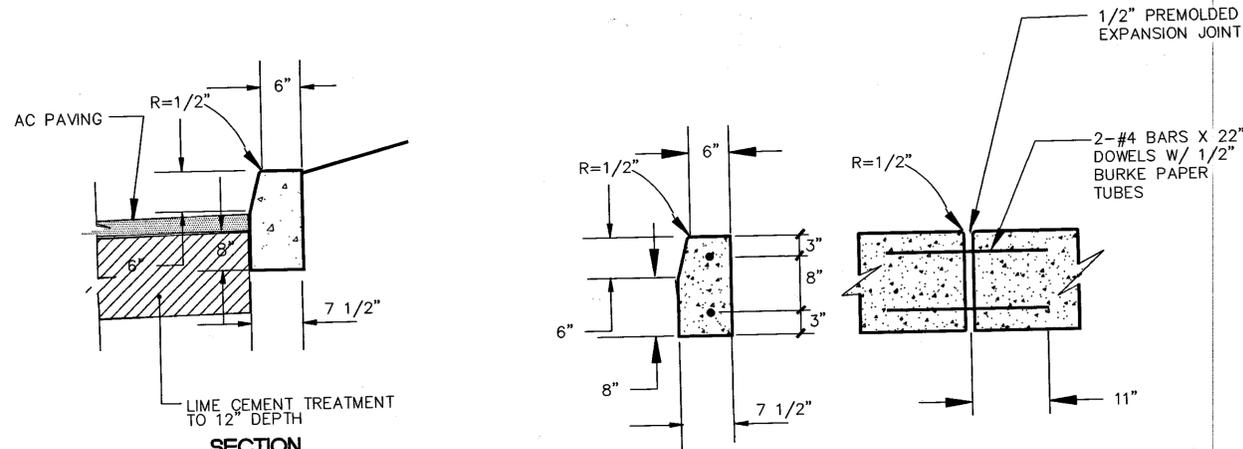
1
31 ISLAND FOR FUTURE KIOSK
SCALE: 1/2"=1'-0"



2
31 AC SWALE
NOT TO SCALE

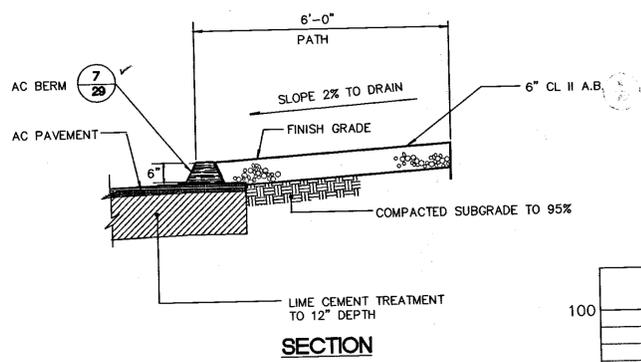


7
31 ROCK LINED SWALE
SCALE: 1"=1'-0"

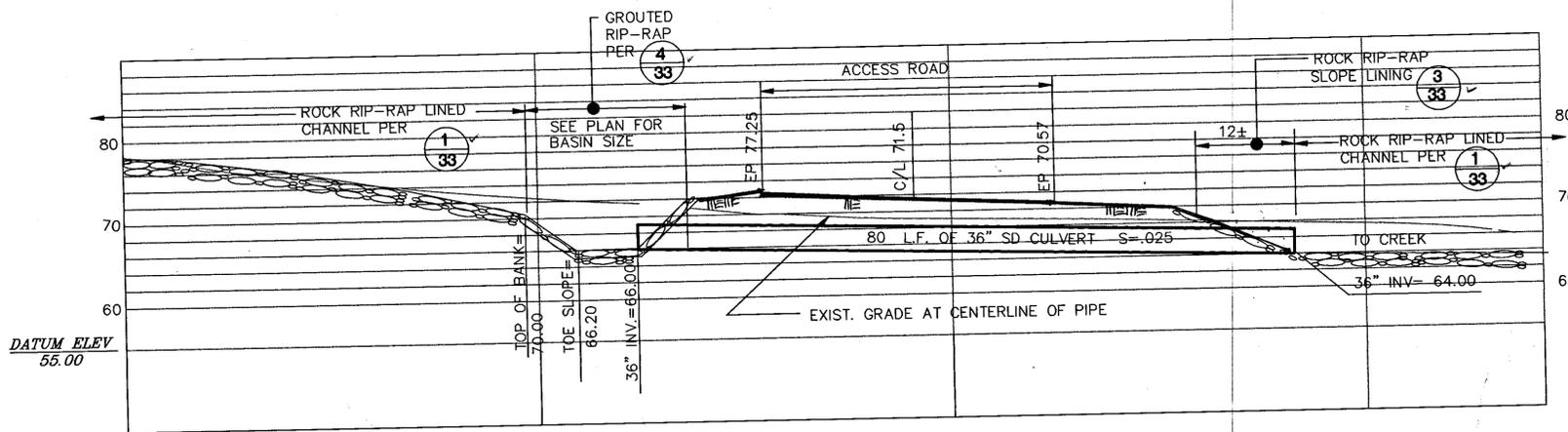


4
31 CONCRETE CURB
SCALE: 1"=1'-0"

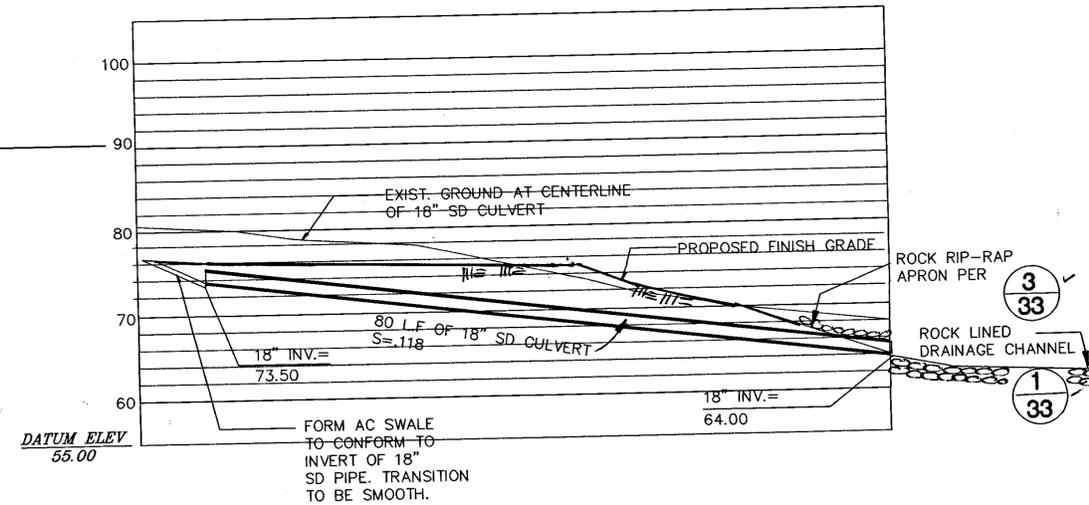
5
31 EXPANSION JOINT AT CONCRETE CURB
SCALE: 1"=1'-0"



6
31 AGGREGATE PAVED PATH
NOT TO SCALE



3
31 PROFILE-36" SD CULVERT
SCALE: 1"=10' HORIZ. AND VERT.



8
31 PROFILE-18" SD CULVERT
SCALE: 1"=10' HORIZ. AND VERT.

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

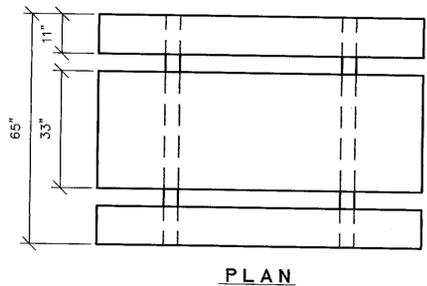
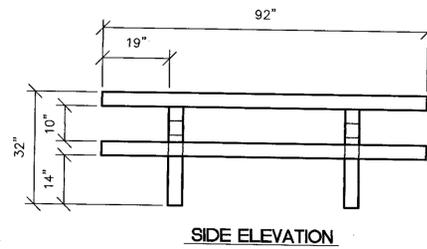
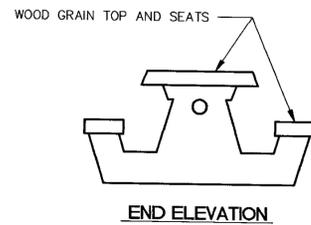
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design: *Ray Lawson*
operations: *Ray Lawson*

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drawn: JM
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date: 6-27-96

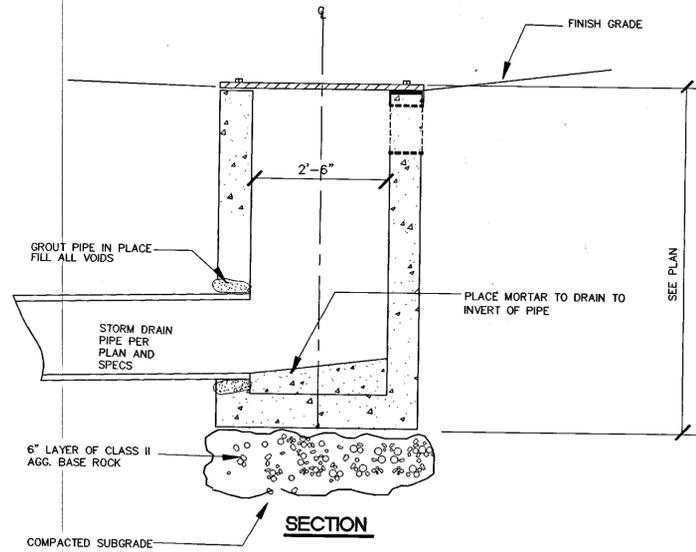
CONSTRUCTION DETAILS
INLAND IMPROVEMENTS PLAN
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CA.
PROJECT NO. 655A

SHEET NO. 31 OF 45

CONTRACT NO. 15-96-09

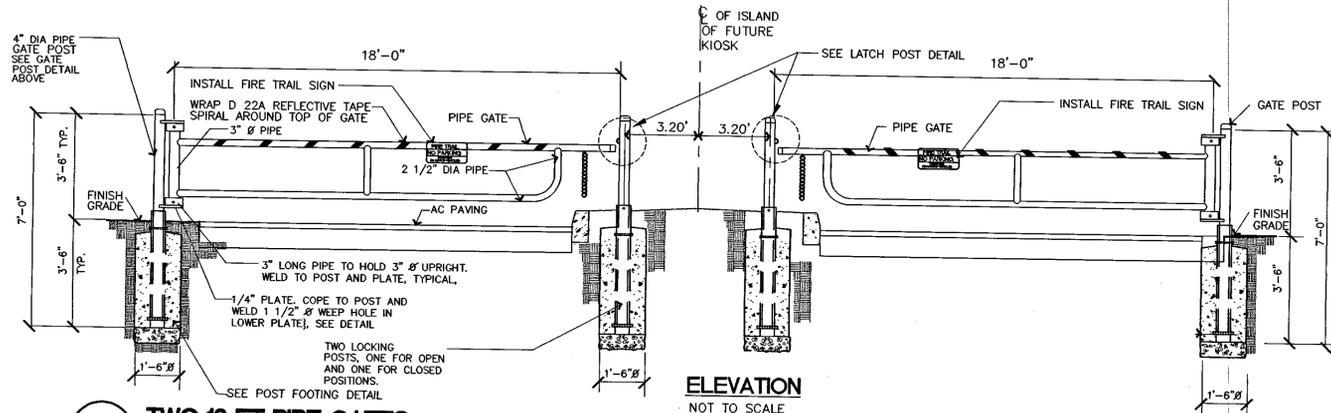


NOTES:
 1. MINIMUM THICKNESS OF ALL AREAS TO BE 4 INCHES.
 2. MINIMUM WEIGHT TO BE 2450 LBS.
 3. SEE SPECIFICATIONS FOR OTHER DETAILS.

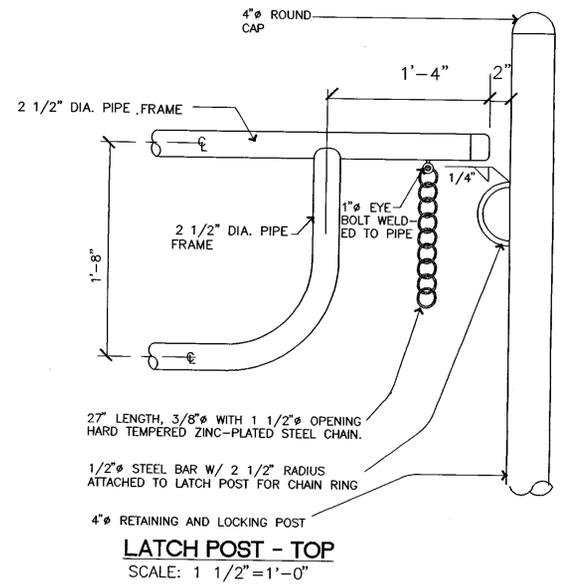


1 PICNIC TABLE - FOREST SERIES (OUTDOOR CREATIONS INC. MODEL: #104.FSS)
 SCALE: AS SHOWN

2 SIDE OPENING DRAIN INLET
 NOT TO SCALE

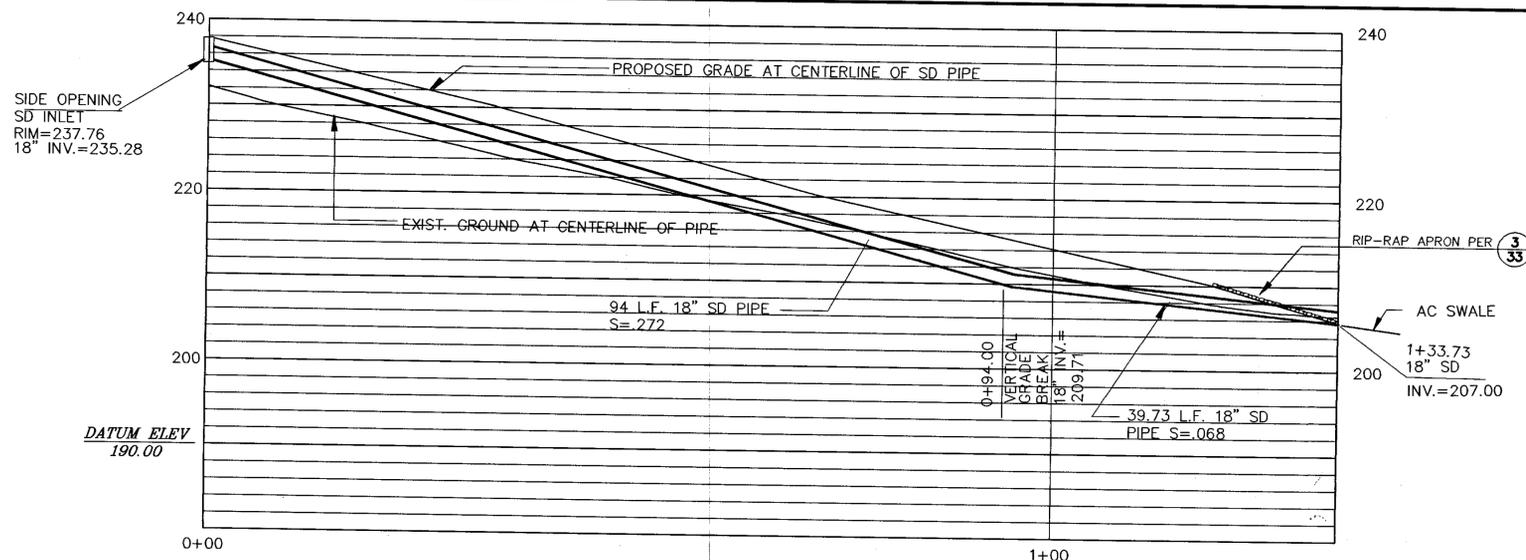


NOTES
 1. E.B.R.P.D. TO PROVIDE PIPE GATES, POSTS, AND ALL HARDWARE.
 2. CONTRACTOR TO INSTALL PIPE GATES, POSTS, SLEEVES, AND CONCRETE FOOTINGS. CONTRACTOR TO PICK UP GATES AT TILDEN CORPORATION YARD AT 2501 GRIZZLEY PEAK AVE. BERKELEY, CA. CALL (510) 843-2608 TO COORDINATE PICKUP OF GATES.
 3. ALL METAL PARTS TO BE PAINTED W/ TWO COATS OF "TRAIL BROWN" INDUSTRIAL ENAMEL, TO BE SUPPLIED BY E.B.R.P.D.



3 TWO 18 FT PIPE GATES
 NOT TO SCALE

LATCH POST - TOP
 SCALE: 1 1/2" = 1'-0"



4 18' STORM DRAIN PIPE PROFILE
 SCALE: 1"=10' HORIZ. AND VERT.

C:\PROJECTS\ECKLEY\INLAND\032.DWG

REVISIONS



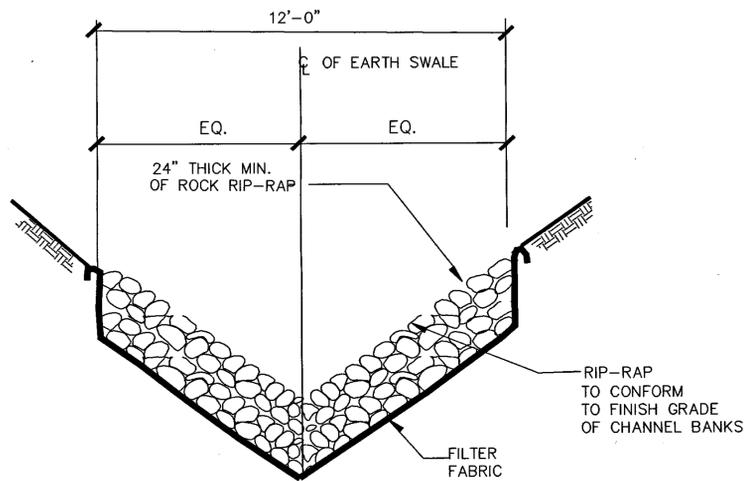
EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
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 operations: [Signature]

scale: AS SHOWN
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 checked:
 date: 6-27-96

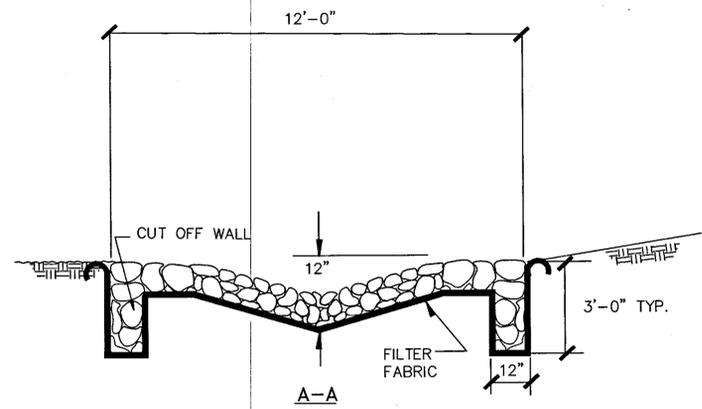
CONSTRUCTION DETAILS
 INLAND IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CALIFORNIA
 PROJECT NO. 695A CONTRACT NO. 15-96-69

SHEET NO.
32
 OF 45



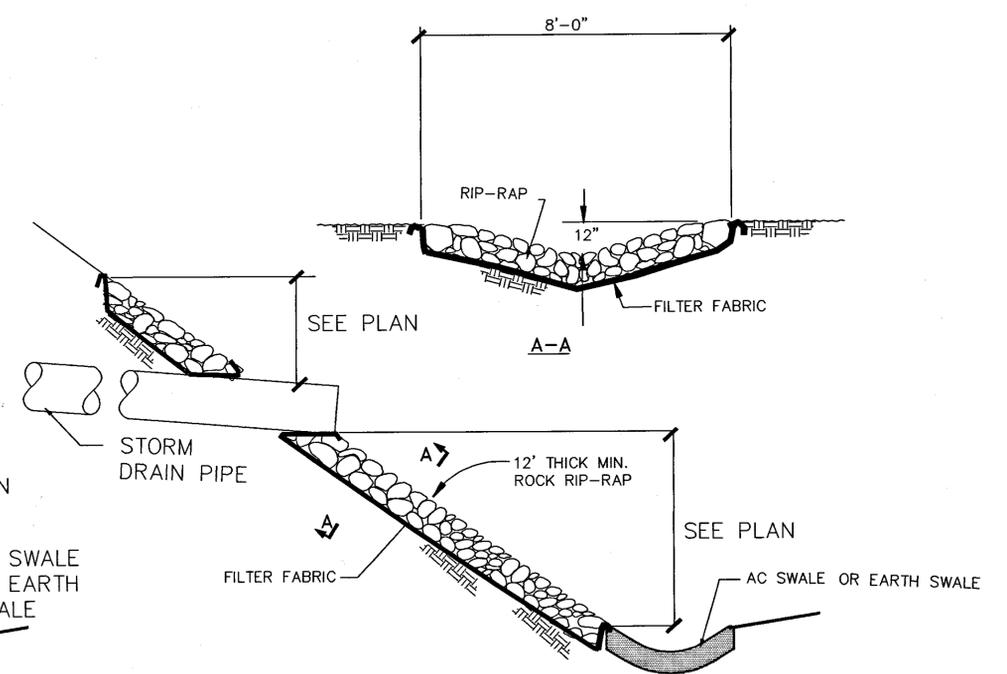
ROCK RIP-RAP LINING FOR EARTH CHANNEL
NOT TO SCALE

1
33



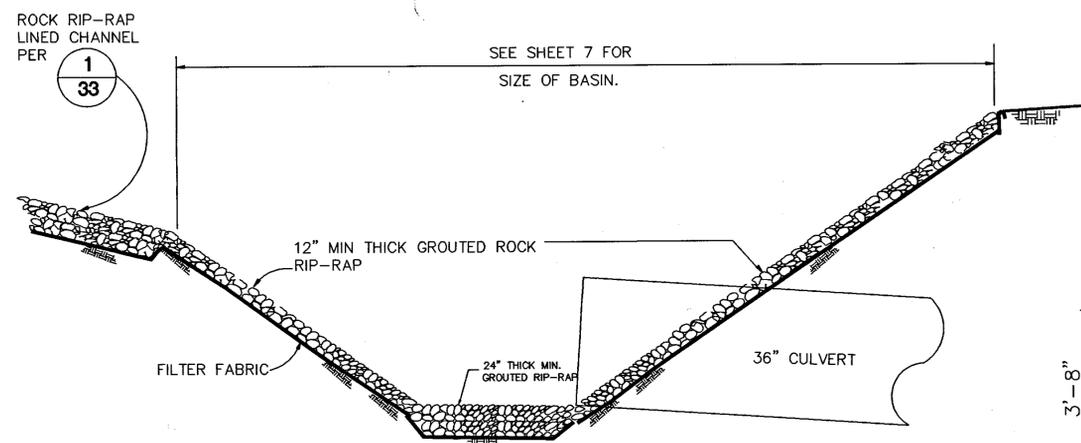
ROCK RIP-RAP APRON
NOT TO SCALE

2
33



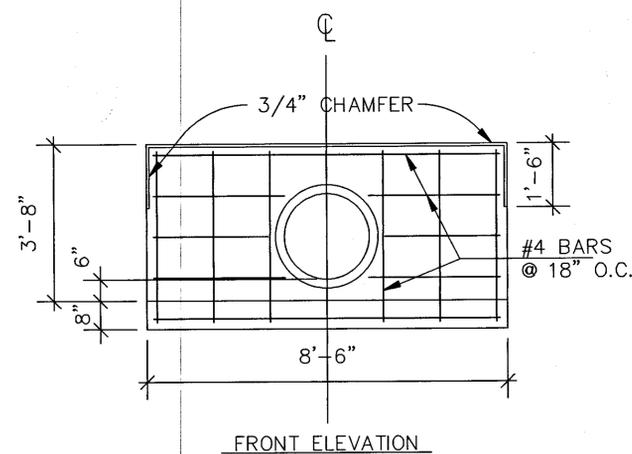
ROCK RIP-RAP APRON AT SD OUTLET
NOT TO SCALE

3
33



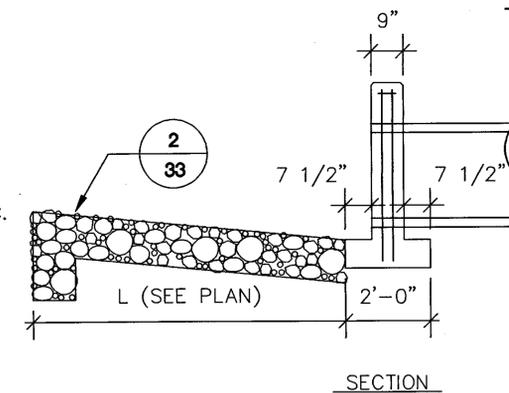
GROUTED RIP-RAP LINED BASIN
NOT TO SCALE

4
33

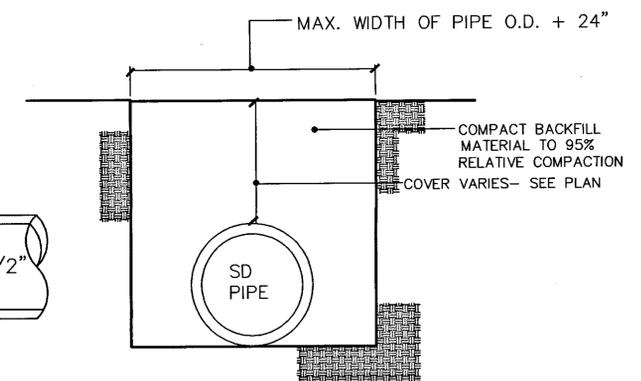


DETAIL OF STRAIGHT HEADWALL
NOT TO SCALE

5
33



SECTION



SECTION STORM DRAIN TRENCH
NOT TO SCALE

6
33

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

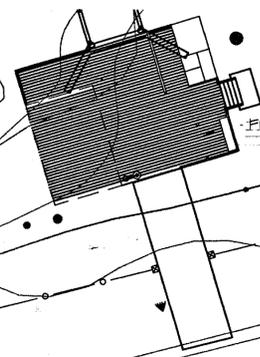
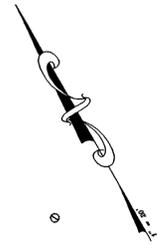
APPROVED
design: *al*
operations: *Ray Johnson*

scale: AS SHOWN
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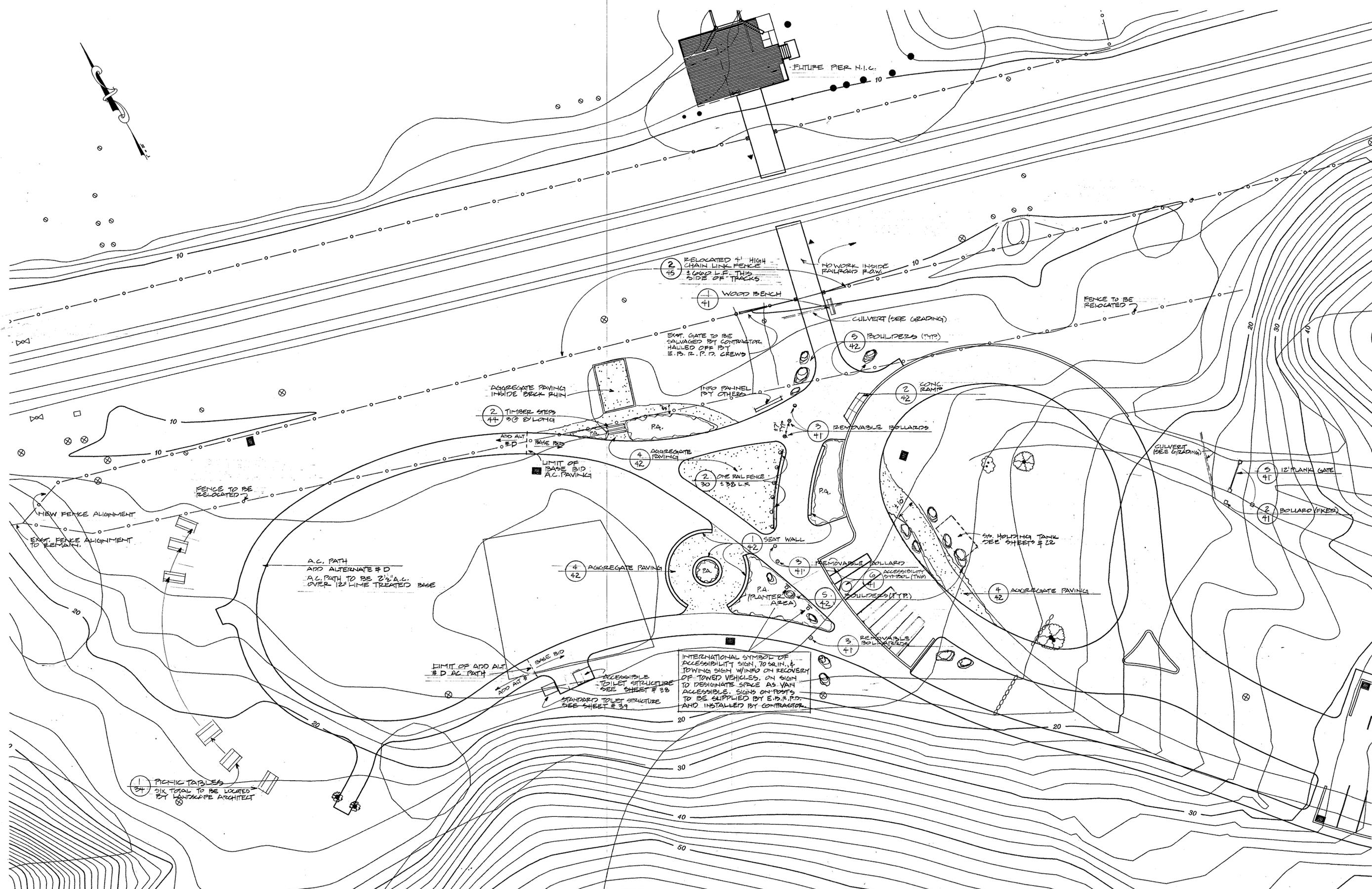
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CONSTRUCTION DETAILS
INLAND IMPROVEMENTS PLAN
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CA
PROJECT NO. 685A CONTRACT NO. 15-96-00

SHEET NO.
33
OF: 45



PLUTUS PER N.I.C.



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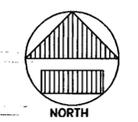
REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: [Signature]
operations: [Signature]

scale: 1" = 20'
drawn: M.L.
checked:
date: 10/27/90



LANDSCAPE LAYOUT
INLAND IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NO. 095A-2 CONTRACT NUMBER 5-00-09

SHEET NO. 34
OF 45
R.C.

INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN, TO SIGN, & TOWING SIGN W/INFD ON RECOVERY OF TOWED VEHICLES, ON SIGN TO DESIGNATE SPACE AS VAN ACCESSIBLE SIGN ON-POPS TO BE SUPPLIED BY E.P.R.P.D. AND INSTALLED BY CONTRACTOR

ACCESSIBLE TOILET STRUCTURE SEE SHEET # 38
STANDARD TOILET STRUCTURE SEE SHEET # 37

A.C. PATH
ADD ALTERNATE # D
A.C. PATH TO BE 2 1/2" A.C. OVER 12" LIME TREATED BASE

1 PICTIC TABLES
34 SIX TOTAL TO BE LOCATED BY LANDSCAPE ARCHITECT

4 AGGREGATE PAVING
42

3 REMOVABLE BOLLARD
41

4 AGGREGATE PAVING
42

2 ONE RAIL FENCE
30 1/2" L.R.

3 REMOVABLE BOLLARDS
41

2 CONC RAMP
42

5 BOULDERS (TYP)
42

2 RELOCATED 4' HIGH CHAIN LINK FENCE
45 3' CORR L.F. THIS SIDE OF TRACKS

1 WOOD BENCH
41

2 TIMBER STEPS
44 30' BY 10' LONG

4 AGGREGATE PAVING
42

5 12" PLANK GATE
41

2 BOLLARD (FREE)
41

55 HOLDING TANK
SEE SHEETS # 22

1 SEAT WALL
42

3 REMOVABLE BOLLARD
41

5 BOULDERS (TYP)
42

LIMIT OF ADD ALT # D AC PATH
BASE BID

LIMIT OF BASE BID
BASE BID

FENCE TO BE RELOCATED

FENCE TO BE RELOCATED

CULVERT (SEE GRADING)

NO WORK INSIDE RAILROAD ROW

CULVERT (SEE GRADING)

AGGREGATE PAVING INSIDE BRICK PAVE

INFID PANEL BY OTHERS

ADD ALT # D
BASE BID

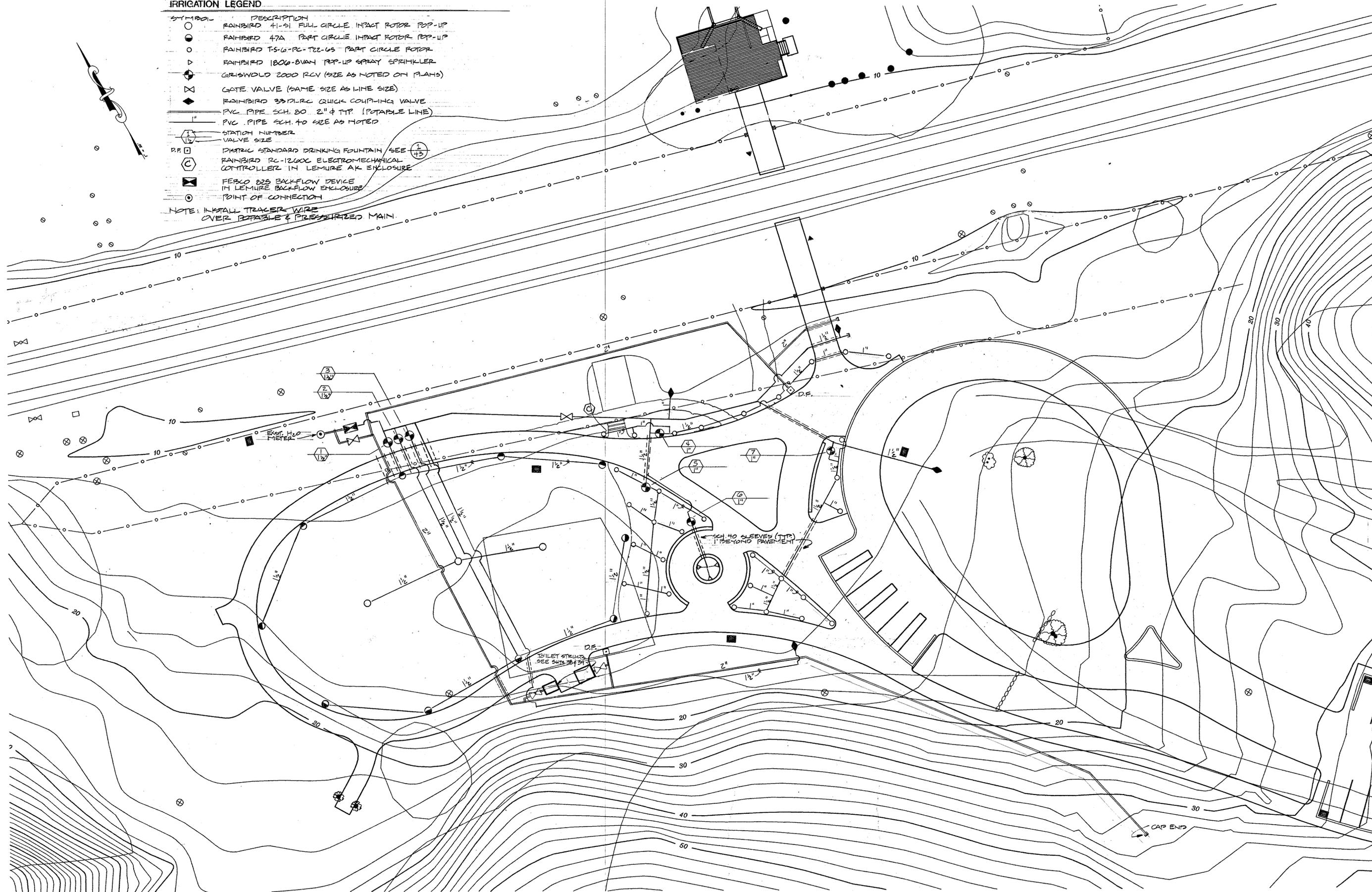
NEW FENCE ALIGNMENT

EXIST. FENCE ALIGNMENT TO REMAIN

IRRIGATION LEGEND

SYMBOL	DESCRIPTION
○	RAINBIRD 41-51 FULL CIRCLE IMPACT ROTOR POP-UP
◐	RAINBIRD 47A PART CIRCLE IMPACT ROTOR POP-UP
◑	RAINBIRD T5-G-PC-T22-GS PART CIRCLE ROTOR
▽	RAINBIRD 180G-BVAN POP-UP SPRAY SPRINKLER
⊕	GRISWOLD 2000 RCV (SIZE AS NOTED ON PLANS)
◇	GATE VALVE (SAME SIZE AS LINE SIZE)
⊞	RAINBIRD 33D-LRC QUICK COUPLING VALVE
—	PVC PIPE SCH. 80 2" & THP (POTABLE LINE)
—	PVC PIPE SCH. 40 SIZE AS NOTED
①	STATION NUMBER
②	VALVE SIZE
D.F. □	DIAPHRAGM STANDARD DRINKING FOUNTAIN SEE ③
Ⓢ	RAINBIRD RC-1200C ELECTROMECHANICAL CONTROLLER IN LEMURE AK ENCLOSURE
Ⓣ	FEBCO 825 BACKFLOW DEVICE IN LEMURE BACKFLOW ENCLOSURE
○	POINT OF CONNECTION

NOTE: INSTALL TRACER WIRE OVER POTABLE & PRESSURIZED MAIN.



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REVISIONS



EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
 design: *[Signature]*
 operations: *[Signature]*

scale: 1" = 20'
 drawn: M.L.
 checked:
 date: 6-27-96



IRRIGATION/WATER SERVICE
 INLAND IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CALIFORNIA
 PROJECT NO. 065A-2 CONTRACT NUMBER 01-90-09

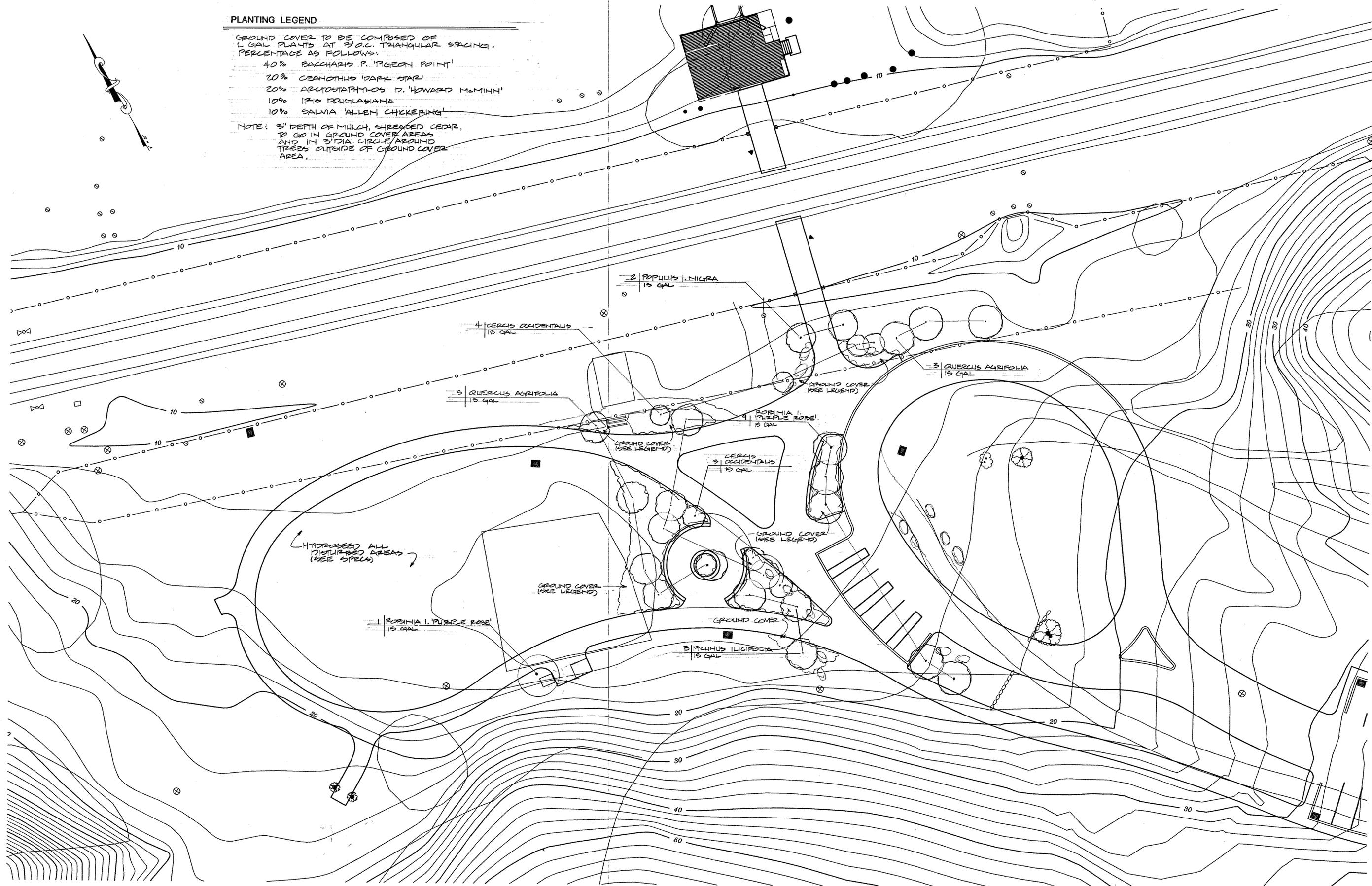
SHEET NO. **35**
 OF: 45

PLANTING LEGEND

GROUND COVER TO BE COMPOSED OF
1 GAL PLANTS AT 3' O.C. TRIANGULAR SPACING.
PERCENTAGE AS FOLLOWS:

- 40% BACCHARIS P. 'PIGEON POINT'
- 20% CERANTHUS 'PARK STAR'
- 20% ARCTOSTAPHYLOS D. 'HOWARD McMINN'
- 10% IPIS DOLGASIANA
- 10% SALVIA 'ALLEN CHICKERING'

NOTE: 3' DEPTH OF MULCH, SHEARED CEDAR,
TO GO IN GROUND COVER AREAS
AND IN 3' DIA. CIRCLE AROUND
TREES OUTSIDE OF GROUND COVER
AREA.



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REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

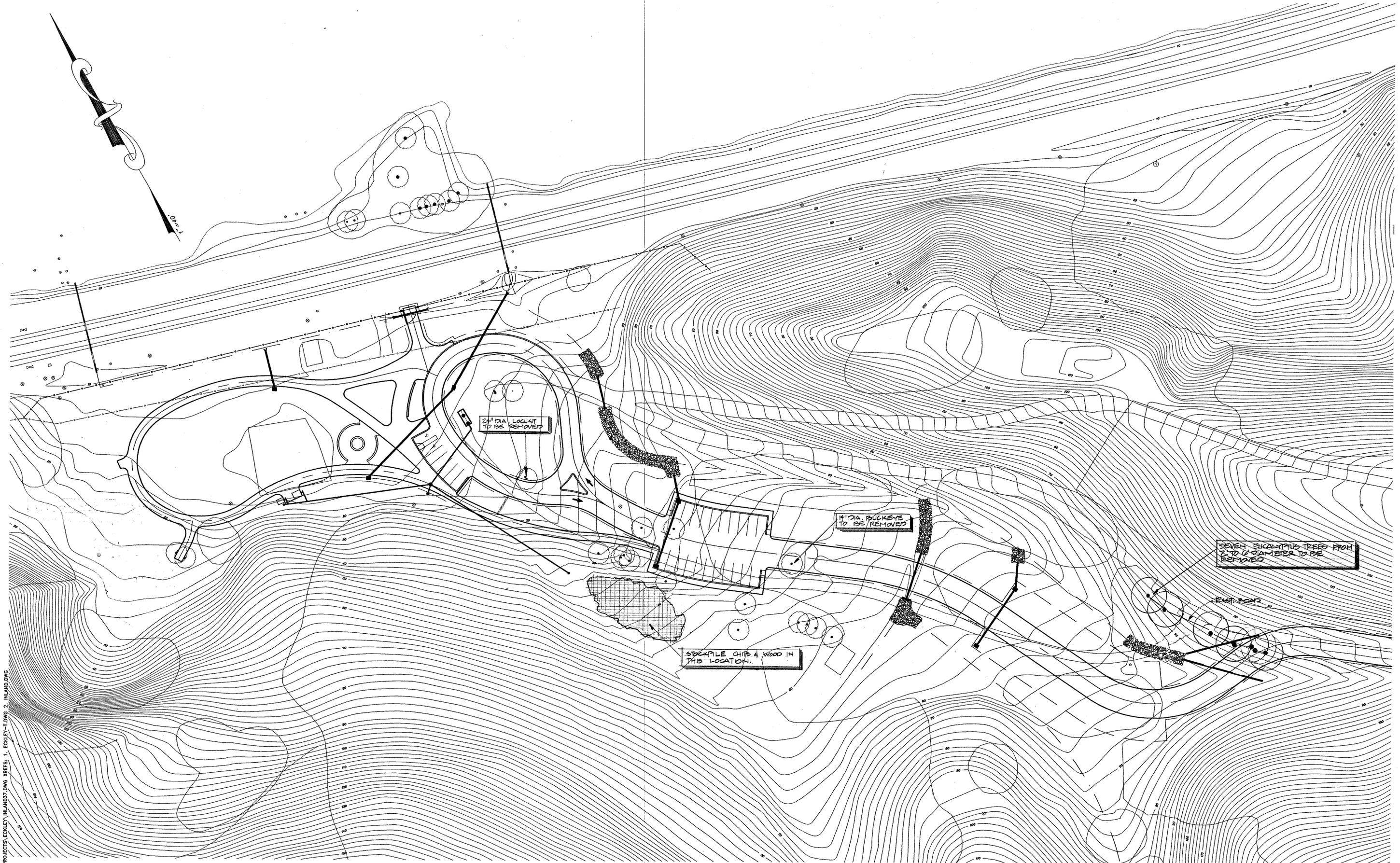
APPROVED: *[Signature]*
design: *[Signature]*
operations: *[Signature]*

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drawn:
checked:
date: 8-27-96



PLANTING
INLAND IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NO. 885A-2 CONTRACT NUMBER 05-96-09

SHEET NO. **36**
OF 45



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REVISIONS



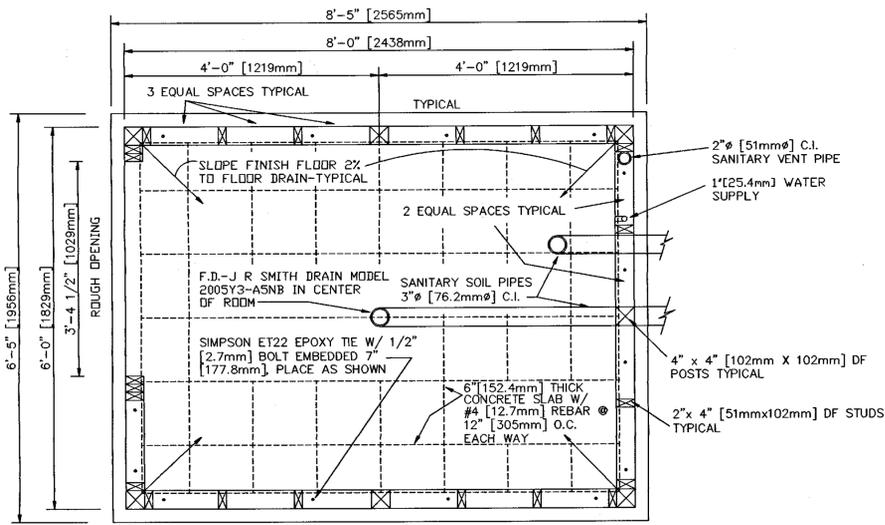
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 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
 design: *[Signature]*
 operations: *Ray Lawson*

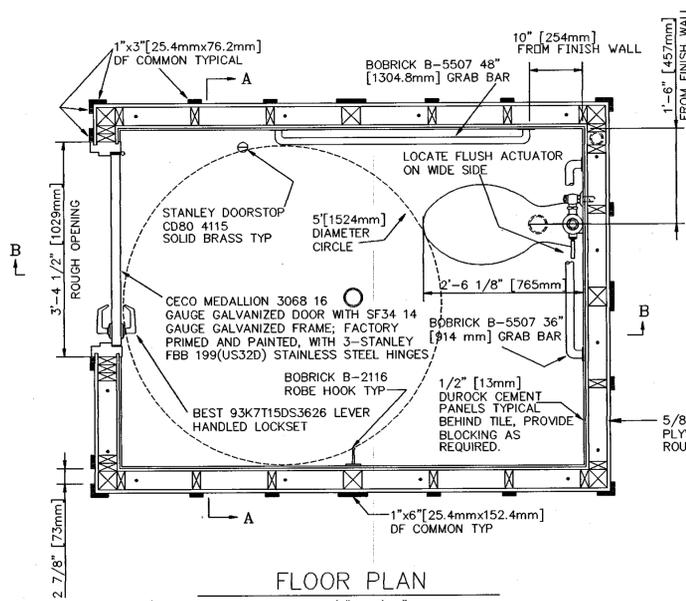
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 checked: ML
 date: 6-27-96

TREE DEMOLITION PLAN
INLAND IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CALIFORNIA
 PROJECT NUMBER 695A-2 CONTRACT NUMBER 05-96-69

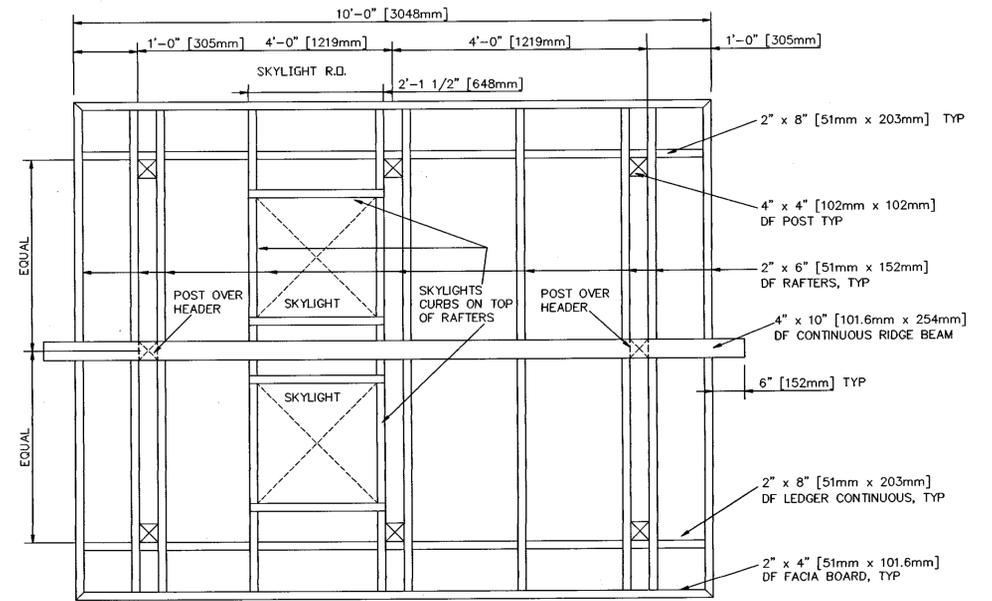
SHEET NO. **37**
 OF: 45



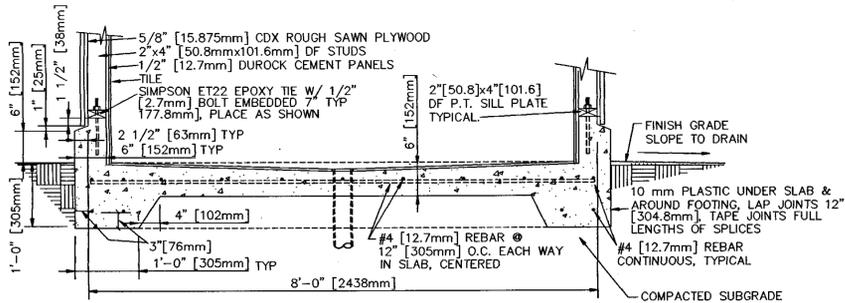
FOUNDATION, FRAMING, & SEWER PLAN
SCALE 3/4" = 1'-0"



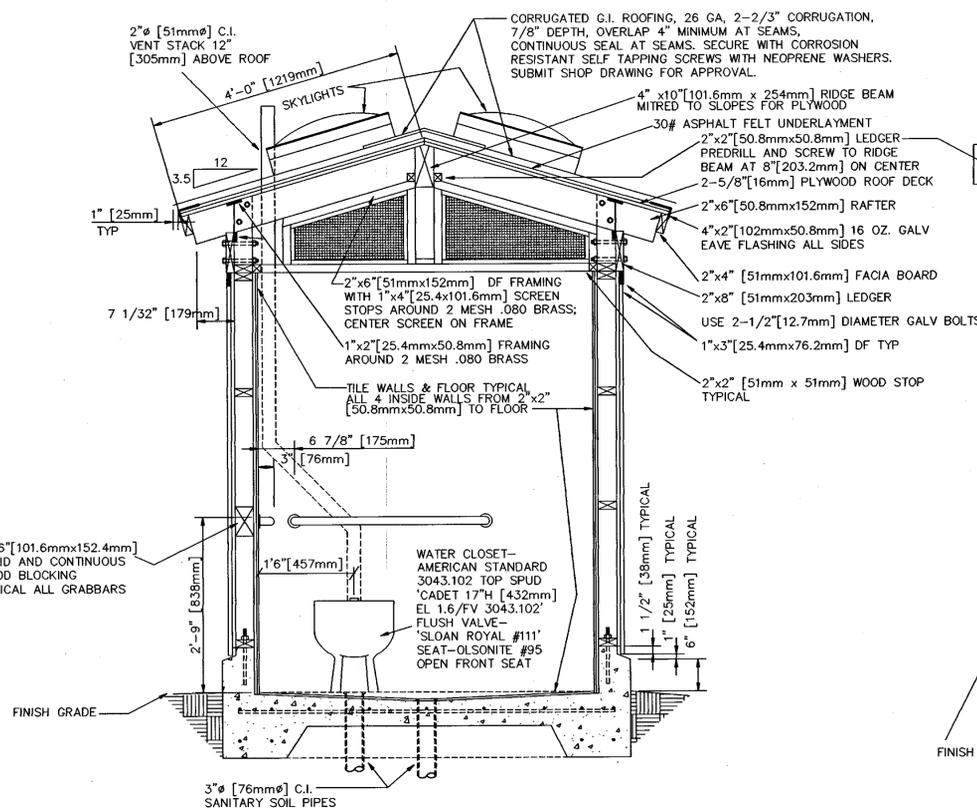
FLOOR PLAN
SCALE 3/4" = 1'-0"



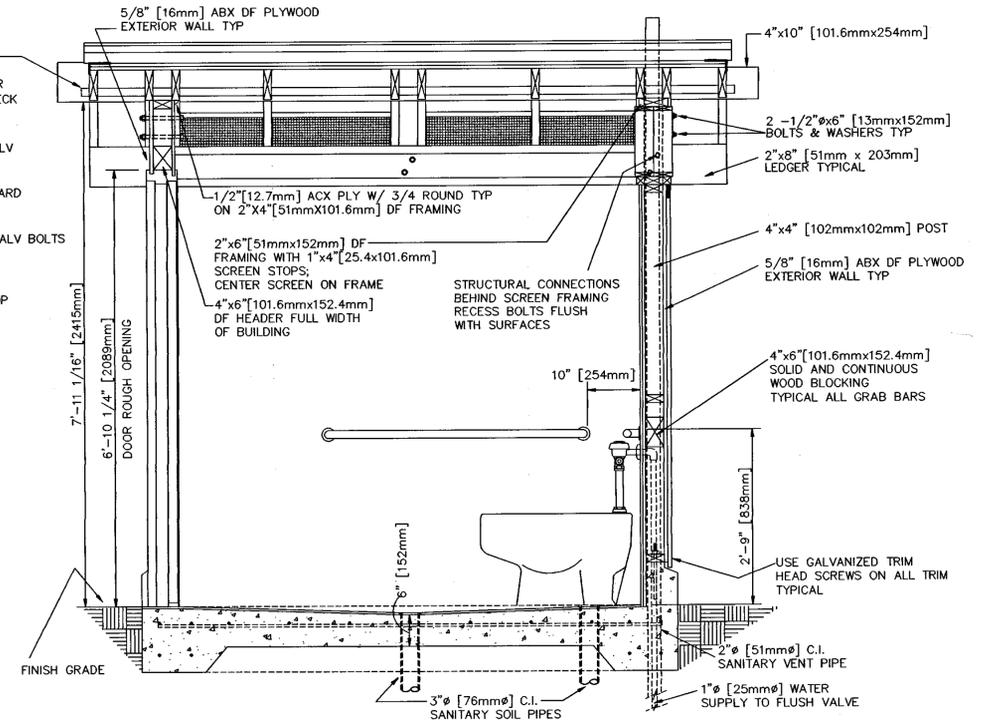
ROOF FRAMING PLAN
SCALE 3/4" = 1'-0"



CONCRETE FOUNDATION, FLOOR & FOOTING SECTION
SCALE 3/4" = 1'-0"



SECTION A-A
SCALE 3/4" = 1'-0"



SECTION B-B
SCALE 3/4" = 1'-0"

ABBREVIATIONS

C.I.	CAST IRON
DF	DOUGLAS FIR
F.D.	FLOOR DRAIN
GALV	GALVANIZED
MM	MILLIMETER
OZ	OUNCE
P.T.	PRESSURE TREATED
R.O.	ROUGH OPENING
TYP	TYPICAL
W/	WITH

NOTES
DO NOT PENETRATE DOOR FOR HANGING
ROBE HOOKS OR ANY OTHER ITEMS

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REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED

design: *al*
operations: *Ray Dawson*

scale: 3/4" = 1'-0"

drawn:

checked:

date: 6-27-96

ACCESSIBLE TOILET STRUCTURE

INLAND IMPROVEMENT PLANS

**ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE**

CONTRA COSTA COUNTY, CALIFORNIA

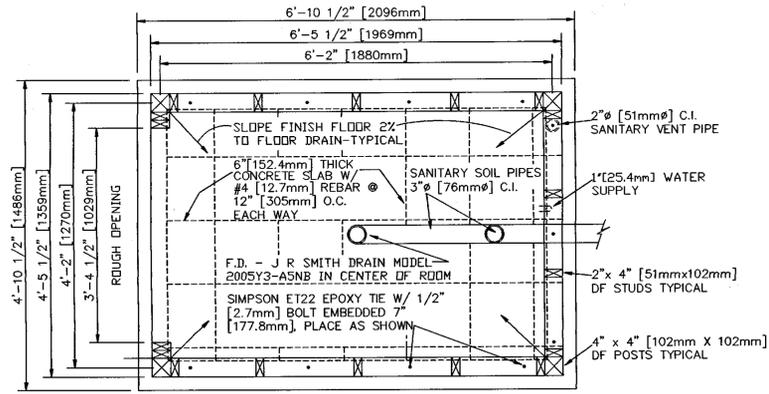
PROJECT NO. 695A

CONTRACT NO. 15-96-69

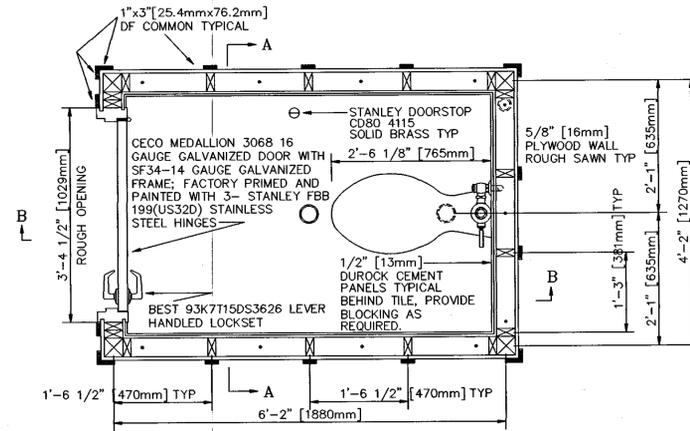
SHEET NO.

38

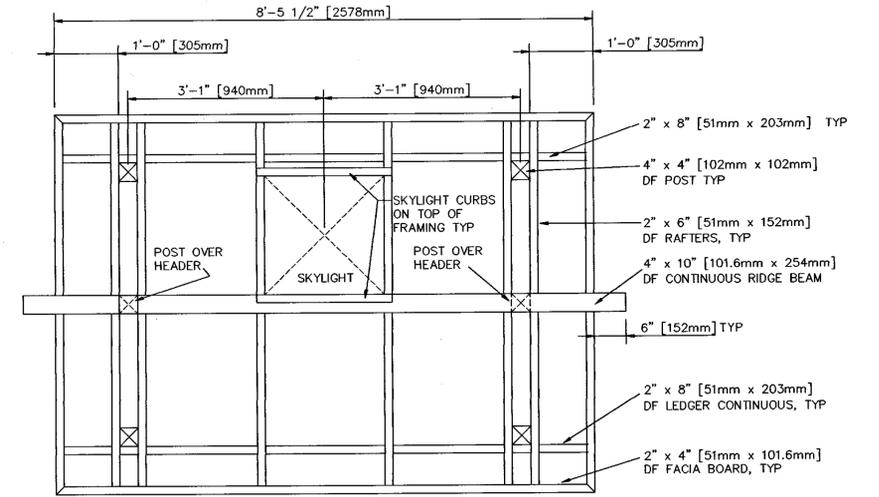
OF: 45



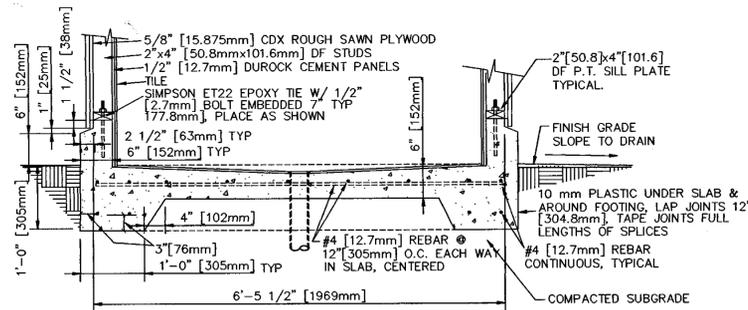
FOUNDATION, FRAMING, & SEWER PLAN
SCALE 3/4" = 1'-0"



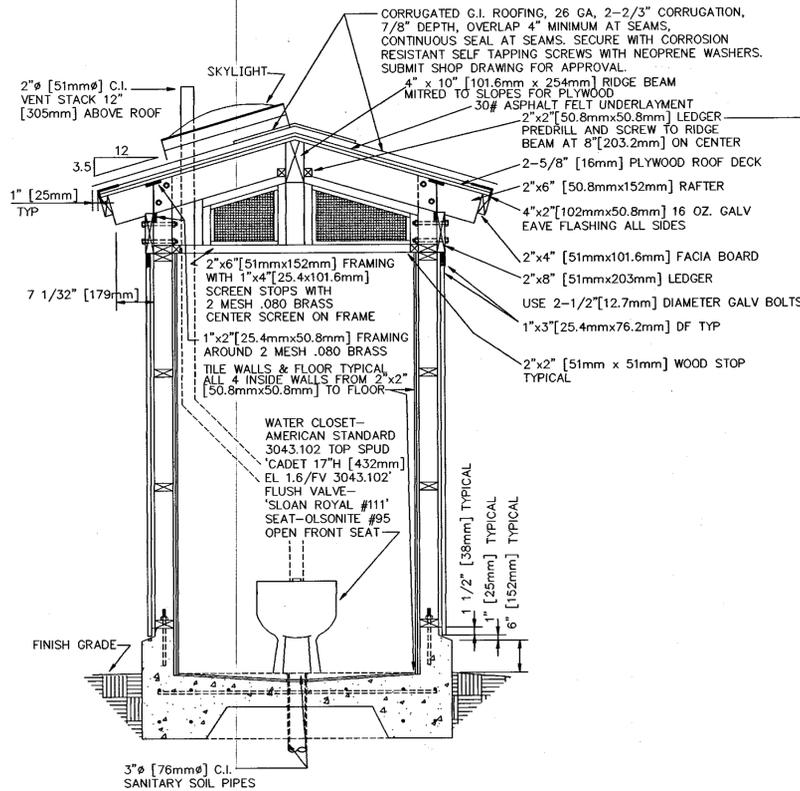
FLOOR PLAN
SCALE 3/4" = 1'-0"



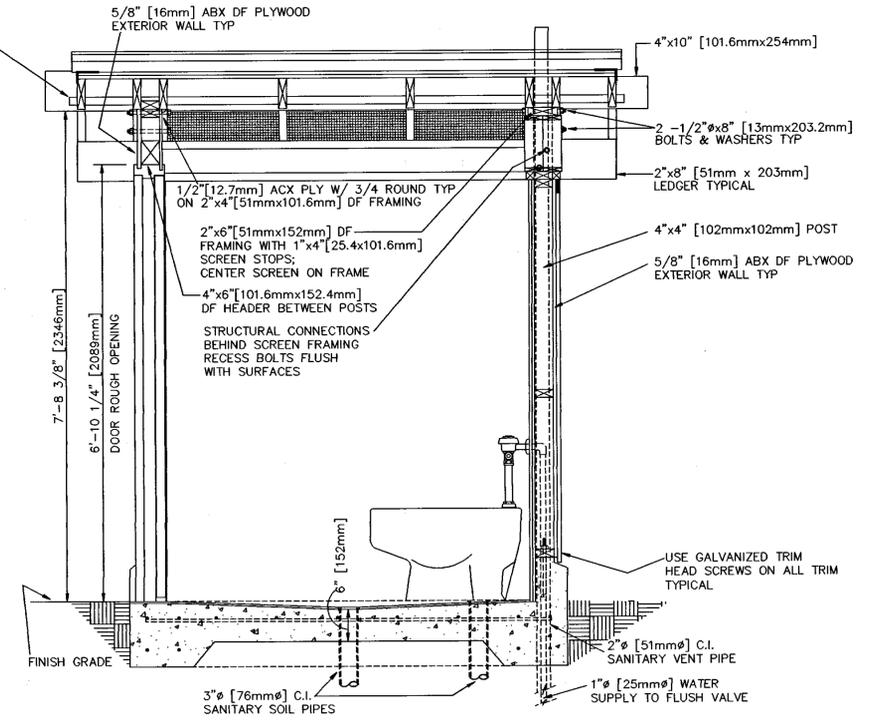
ROOF FRAMING PLAN
SCALE 3/4" = 1'-0"



CONCRETE FOUNDATION, FLOOR & FOOTING SECTION
SCALE 3/4" = 1'-0"



SECTION A-A
SCALE 3/4" = 1'-0"



SECTION B-B
SCALE 3/4" = 1'-0"

ABBREVIATIONS

C.I.	CAST IRON
DF	DOUGLAS FIR
F.D.	FLOOR DRAIN
GALV	GALVANIZED
mm	MILLIMETER
TYP	TYPICAL
W/	WITH
OZ	OUNCE
P.T.	PRESSURE TREATED
R.O.	ROUGH OPENING

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REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED

design:

operations:

Ray Lawson

scale: 3/4" = 1'-0"

drawn:

checked:

date: 6-27-96

STANDARD TOILET STRUCTURE
INLAND IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA

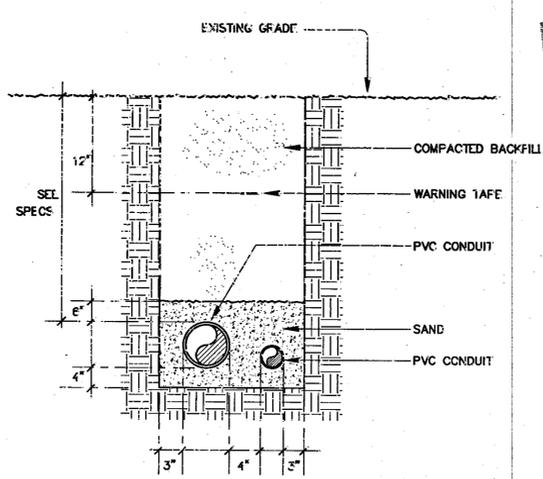
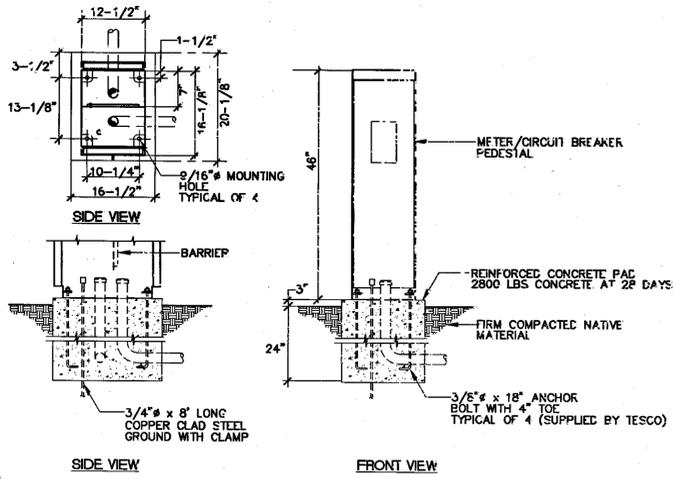
PROJECT NO. 695A

CONTRACT NO. 15-96-69

SHEET NO.

39

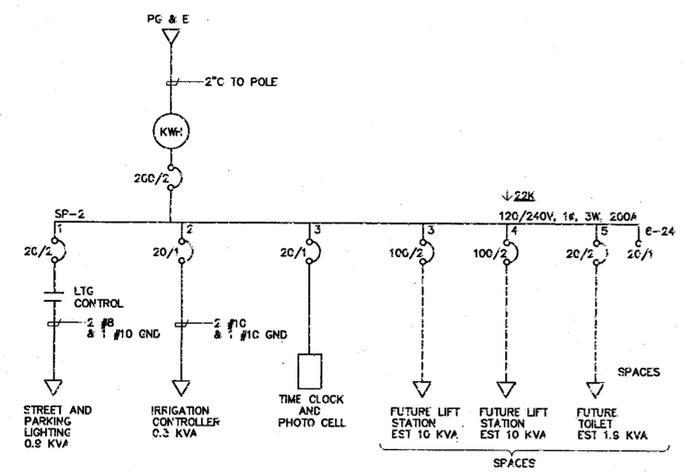
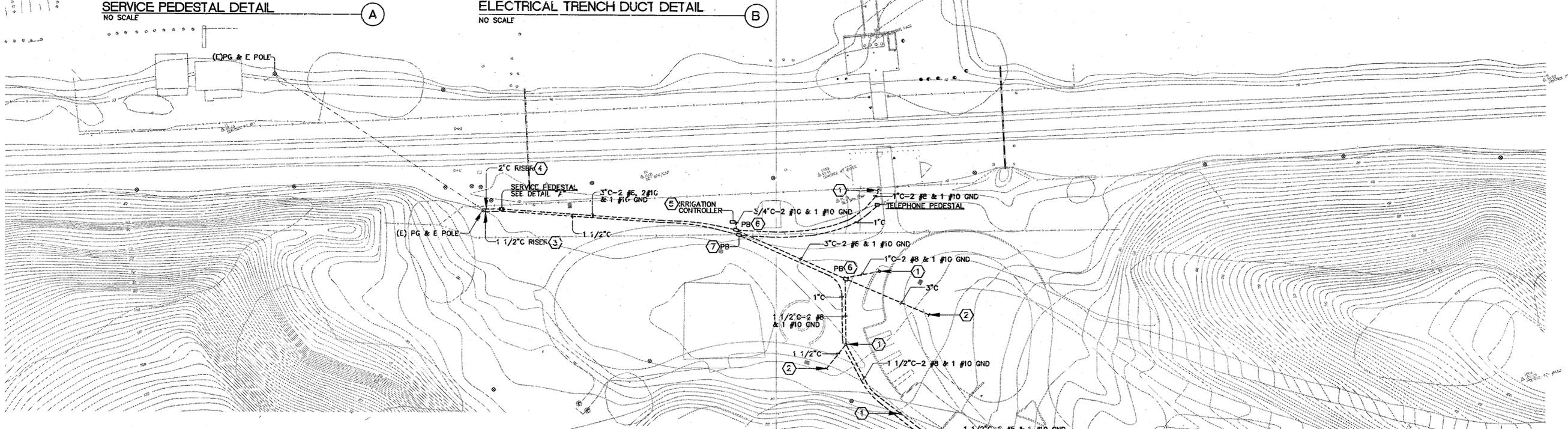
OF: 45



- SHEET NOTES**
- 1 LIGHTING POLE. SEE DETAIL ON SHEET 44.
 - 2 STUB-OUT BELOW GRADE. PROVIDE ABOVE GRADE MARKER.
 - 3 TO TELEPHONE CO. REQUIREMENTS.
 - 4 TO PG & E REQUIREMENTS.
 - 5 PROVIDE RISER INTO ENCLOSURE AND CONNECT CONTROLLER.
 - 6 CHRISTY N30 BOX WITH FL30D LID, B30X12 EXTENSION AND B30BA BASE. MARK LID "ELECTRICAL".
 - 7 CHRISTY PTS1017 BOX WITH FL9D LID, BX912 EXTENSION AND B99A BASE. MARK LID "TELEPHONE".

SYMBOLS AND ABBREVIATIONS

⊗	(E) POWER POLE
○	LIGHTING POLE
---	(E) OVERHEAD LINES
---	UNDERGROUND CONDUIT RUN
---	CONDUIT STUB-OUT
□	FULL BOX
⊗	KWH
⊗	KILOWATT-HOUR METER
⊗	PULLBOX
⊗	SHORT CIRCUIT RATING OF EQUIPMENT. (22,000 AMPS SYMMETRICAL).
(E)	EXISTING
GND	GROUND
FB	PULLBOX.



REGISTERED PROFESSIONAL
PETER WILKINSON
9325
ELECTRICAL
STATE OF CALIFORNIA

APPROVED
design: *[Signature]*
operations: *Ray Dawson*

scale: 1:40
drawn: BJ
checked: PW
date: 6/27/96

NORTH

- NOTES:
 1. STEEL PARTS TO BE FINISHED WITH A BAKED ON POWDER-COATING, OXFORD BROWN.
 2. BENCH TO BE "DUMORY" BENCH #60-418. ALL STEEL ARMREST, FRAME TO BE FLAME GALVANIZED PRIOR TO POWDER COATING. COLOR TO BE OXFORD BROWN, AVAILABLE FROM ROSS RECREATION 555 5TH STREET, SUITE 210, SANTA ROSA, CA 95401 (707)526-4800

3/8" x 2 1/2" STAINLESS STEEL BUTTON HEAD SOCKETED VANDAL RESISTANT WOOD SCREWS

3" x 4" DOUGLAS FIR BENCH BOARDS. EASE ALL EDGES TO A 3/4" RADIUS, TYP.

3/8" x 2 1/2" STEEL ARM RESTS, 2 PER BENCH

2 1/2" SQUARE STEEL TUBE SUPPORT POSTS

3/8" x 4" HOT ROLLED STEEL PREFORMED AND WELDED TO SUPPORT POSTS, TYP.

2 1/2" SQUARE STEEL TUBE SUPPORT POSTS

AT PER SECURE IN 5-3 GULL WING SUPPORT W/ STANDARD 1" SHAPED POST

FINISH GRADE

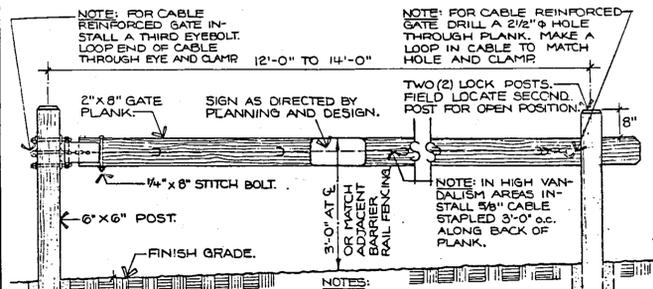
CONCRETE FOOTING

CONCRETE FOOTING

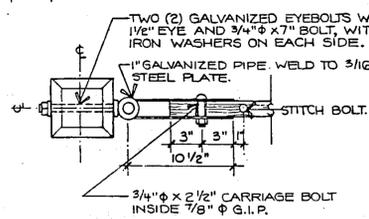
SECTION

ELEVATION

1 41 BENCH (ADD ALTERNATE "J")

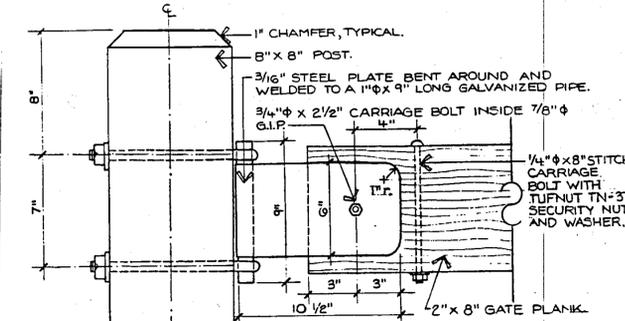


ELEVATION SCALE: 1/2" = 1'-0"

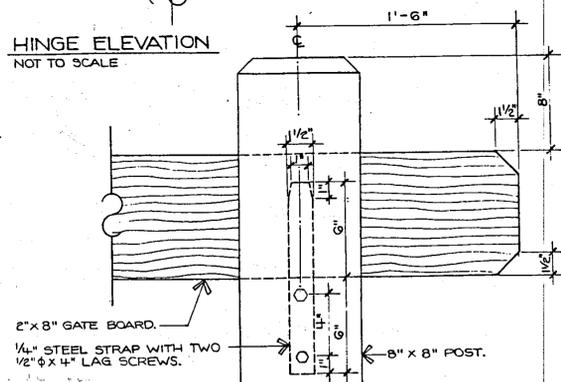


HINGE PLAN SCALE: 1/2" = 1'-0"

LOCK POST SIDE ELEVATION SCALE: 1/2" = 1'-0"

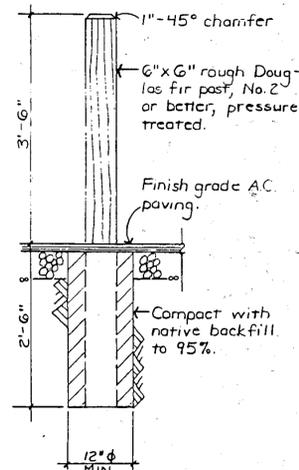


HINGE ELEVATION NOT TO SCALE



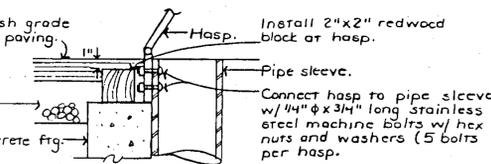
LOCK POST ELEVATION NOT TO SCALE

5 41 PLANK GATE

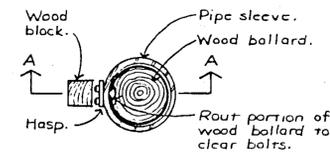


2 41 ELEVATION - STATIONARY BOLLARD Scale: 3/4" = 1'-0"

3 41 SECTION - REMOVABLE WOOD BOLLARD Scale: 3/4" = 1'-0"

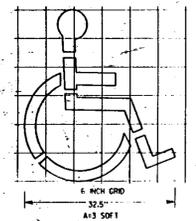


SECTION A-A Not to scale

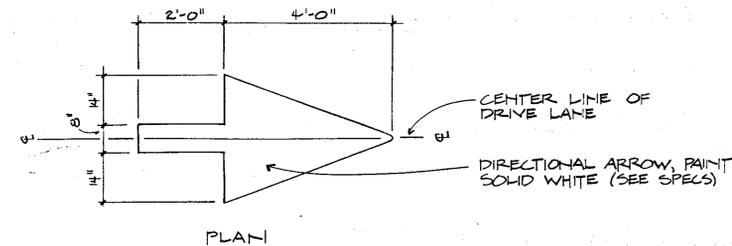


PLAN Not to scale

4 41 DETAILS - HASP CONNECTION AT REMOVABLE BOLLARD Not to Scale



6 41 INTERNATIONAL ACCESSIBILITY SYMBOL Not To Scale



7 41 PAVEMENT DIRECTIONAL ARROW

NOTE: SYMBOL AND CURB IDENTIFIED ON PLANS TO BE PAINTED BLUE PER THE STANDARD SPECIFICATIONS.

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED

design: *Ray Lawson*

operations: *Ray Lawson*

scale: AS SHOWN

drawn: STAFF

checked: ML

date: 6/27/10



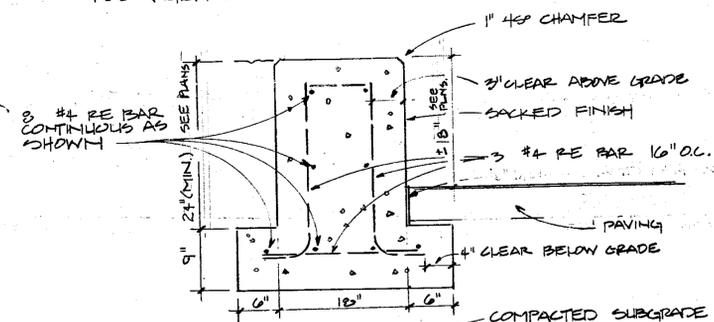
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 INLAND IMPROVEMENT PLANS
 ECKLEY
 CARQUINEZ STRAIT REGIONAL PARK
 CONTRA COSTA COUNTY, CALIFORNIA

PROJECT NUMBER 665A-2

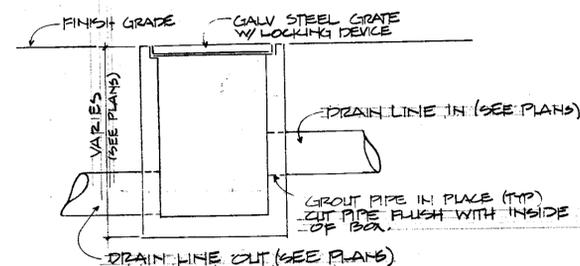
CONTRACT NUMBER 05-98-99

SHEET NO. 41
 OF: 45
 NO:

NOTES:
 1) 1/2" THICK ASPHALTIC FELT EXPANSION JOINTS O.C. (MAX.) AND CONTROL JOINTS 7' O.C. (MAX.)
 2) CONCRETE SEAT WALLS AND ALL CONCRETE PAVING, WALKS, RINGS AND RAMP TO HAVE L.M. SCOFIELD CHROMIX COLOR ADITIVE. COLOR TO BE SELECTED BY LANDSCAPE ARCHITECT. CHROMIX ADMIXTURE OR APPROVED EQUAL MAY BE AVAIL. FROM: L.M. SCOFIELD CO. 6833 BARDINI BLVD. LOS ANGELES CA 90040 SF.#(415) 930-6712

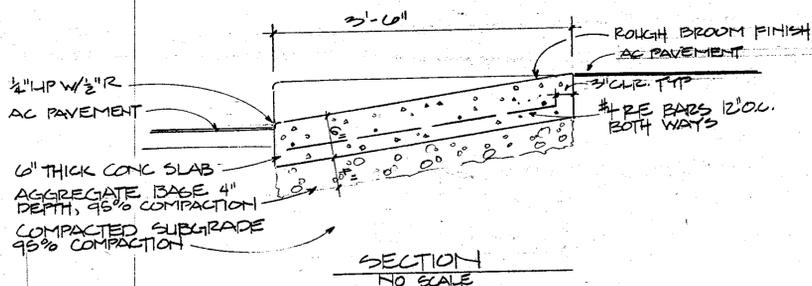


1/42 CONCRETE SEATWALL (ADD ALTERNATE "B") NO SCALE



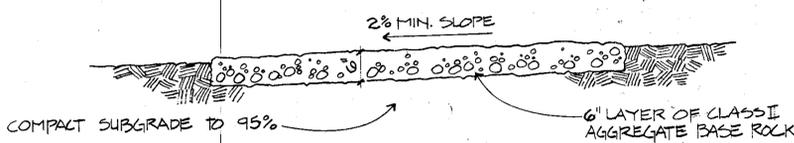
SECTION NO SCALE
 PRECAST INLET & GRATE MODEL G1 FROM: SANTA ROSA CAST PRODUCTS (707) 546-5016

3/42 CATCH BASIN



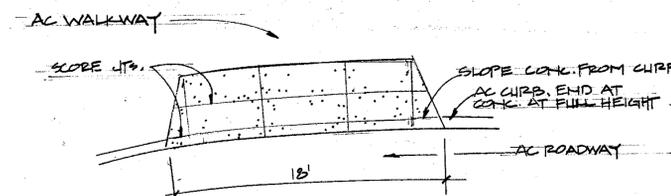
NOTE: COLOR TO MATCH SEATWALL SEE DETAIL AT LEFT.

2/42 CONCRETE VEHICLE RAMP

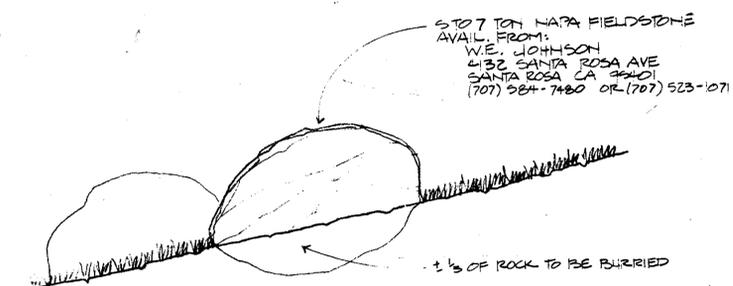


SECTION

4/42 AGGREGATE PAVING (ADD ALTERNATE "E")



PLAN NO SCALE



NOTES:
 1) LANDSCAPE ARCHITECT TO STAKE LOCATION FOR ROCK.
 2) SEE PLAN FOR NUMBER AND APPROXIMATE LOCATION.

5/42 BOULDER (ADD ALTERNATE "F")

C:\PROJECTS\ECKLEY\ECKLEY.DWG

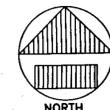
REVISIONS



EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
 design: [Signature]
 operations: [Signature]

scale: AS SHOWN
 drawn: STAFF
 checked: ML
 date: 6/27/96

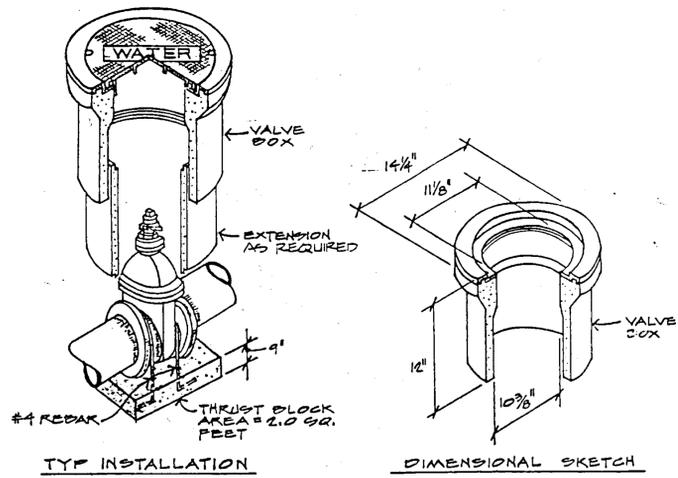


DETAILS
 LAND IMPROVEMENT PLANS
 ECKLEY
 CARQUINEZ STRAIT REGIONAL PARK
 CONTRA COSTA COUNTY, CALIFORNIA

PROJECT NUMBER 695A-2

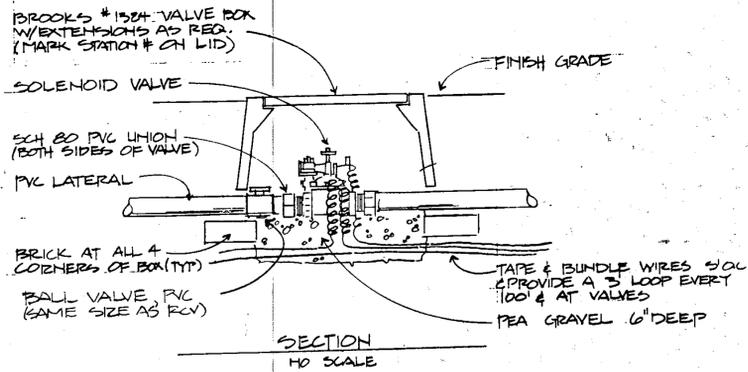
CONTRACT NUMBER 05-96-69

SHEET NO. 42 OF 45 NO.



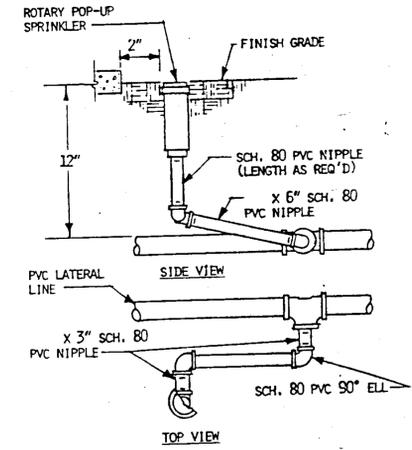
GATE VALVE DETAIL
NO SCALE

NOTES:
1) ALL THREADED FITTINGS TO BE SCH. 80 PVC
2) USE DOUBLE LAP TEFLON TAPE ON ALL THREADED CONNECTIONS.

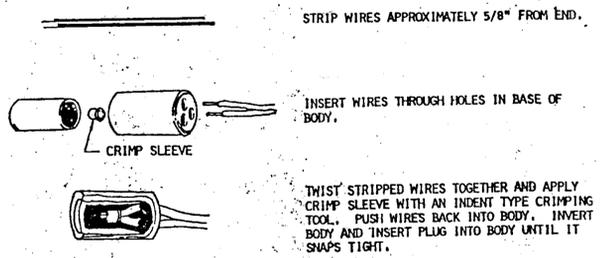


REMOTE CONTROL VALVE DETAIL
NO SCALE

NOTE:
1. SET SPRINKLERS 2" ABOVE FINISH GRADE AT TIME OF INSTALLATION - LOWER TO FINISH GRADE WHEN TURF IS WELL ESTABLISHED.

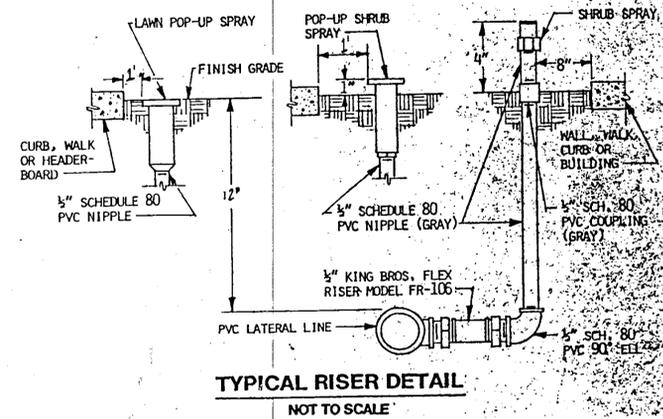


ROTARY SPRINKLER RISER DETAIL
NOT TO SCALE

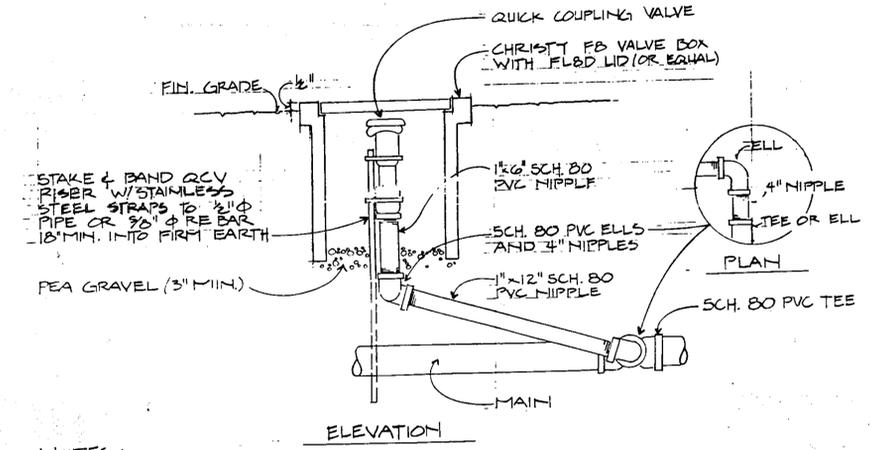


NOTES:
1. ONE CONNECTOR HANDLES #10 AWG, #12 AWG, AND #14 AWG WIRE.
2. WIRE CONNECTORS WILL ACCEPT THREE WIRE OR TWO WIRE CONNECTIONS.

WIRE CONNECTION DETAIL
NOT TO SCALE

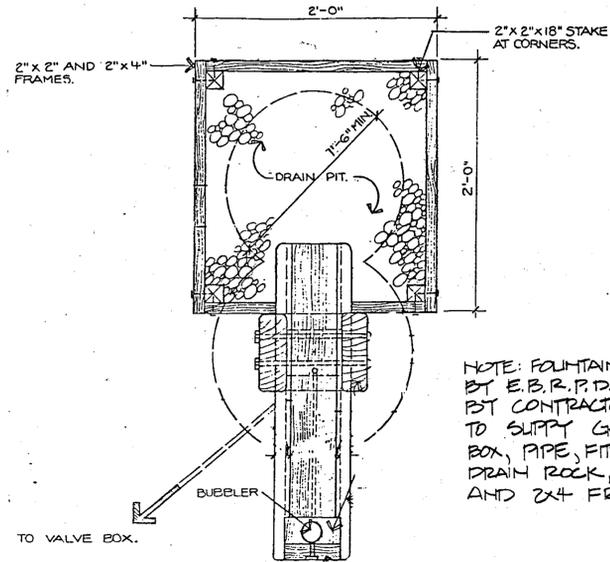


TYPICAL RISER DETAIL
NOT TO SCALE

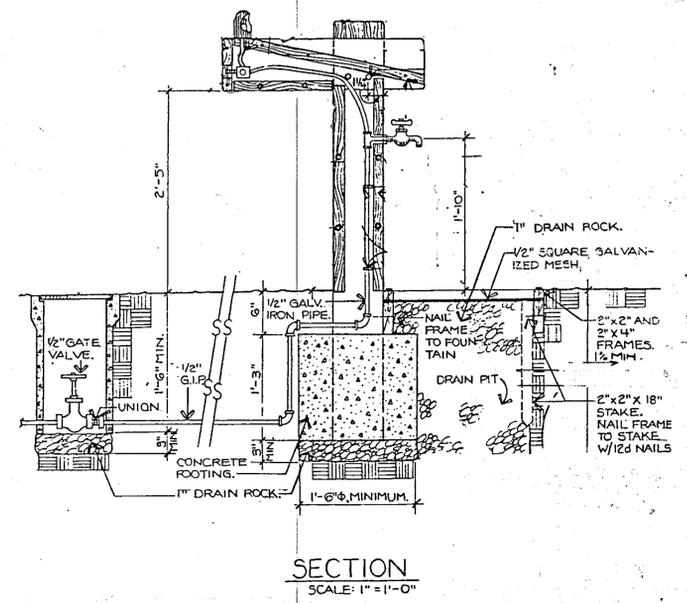


NOTES:
1) USE DOUBLE LAP TEFLON TAPE ON ALL THREADED CONNECTIONS.

QUICK COUPLING VALVE DETAIL
NO SCALE

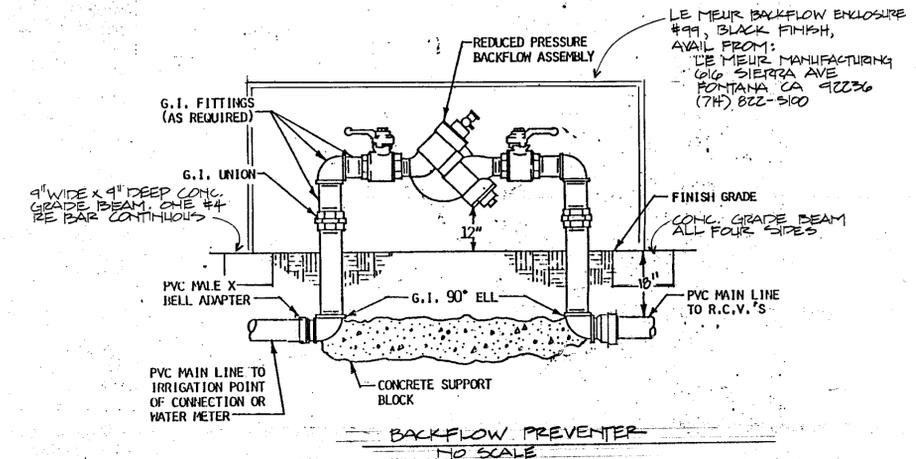


NOTE: FOUNTAIN TO BE SUPPLIED BY E.B.R.P.D. AND INSTALLED BY CONTRACTOR. CONTRACTOR TO SUPPLY GATE VALVE, VALVE BOX, PIPE, FITTINGS, CONCRETE DRAIN ROCK, WIRE MESH, AND 2x4 FRAME.



SECTION
SCALE: 1" = 1'-0"

NOTE: EVENLY COAT G.I. FITTINGS EXPOSED TO SOIL AND CONCRETE WITH 3M SCOTCHRAP PIPE PRIMER AND THEN WRAP WITH 3M SCOTCHRAP NO. 51 BLACK PVC TAPE (3/4" OVERLAP).



BACKFLOW PREVENTER
NO SCALE

1 DRINKING FOUNTAIN
43

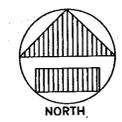
REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED: [Signature]
design: [Signature]
operations: [Signature]

scale: AS SHOWN
drawn: STAFF
checked: ML
date: 6/27/96



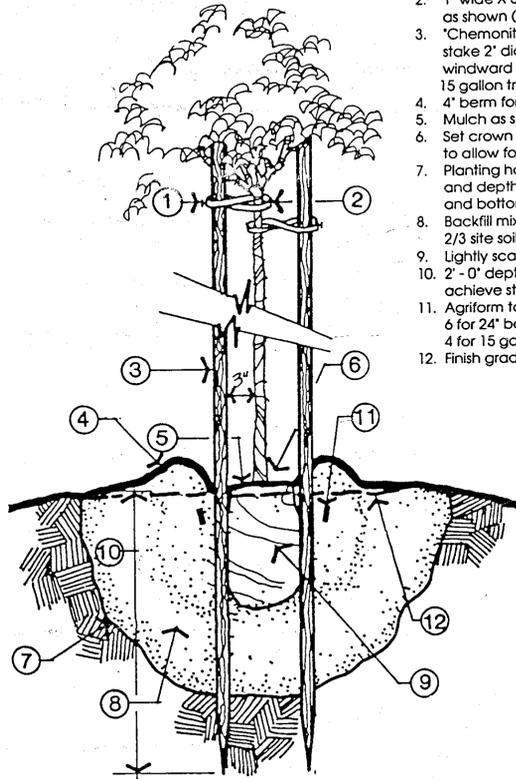
DETAILS
INLAND IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL PARK
CONTRA COSTA COUNTY, CALIFORNIA

SHEET NO. **43**
OF 45
NO.

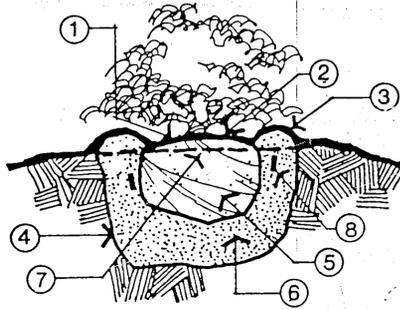
PROJECT NUMBER 095A-2 CONTRACT NUMBER 05-96-09

Notes:

1. One galv. nail (2") per tie
2. 1" wide X 5/8" thick rubber strip as shown (one per stake)
3. "Chemonite" lodge pole pine tree stake 2" dia. 10' long, place on windward side (one stake for all 5 & 15 gallon trees; two for 24" box)
4. 4" berm for watering basin
5. Mulch as specified
6. Set crown 1 1/2" above grade to allow for settlement
7. Planting hole: twice the diameter and depth of rootball; scarify sides and bottom
8. Backfill mix: 1/3 nitrified soil, 2/3 site soil
9. Lightly scarify rootball
10. 2' - 0" depth or greater to achieve stability
11. Agriform tablets (22-10-12) 6 for 24" box 4 for 15 gallon
12. Finish grade



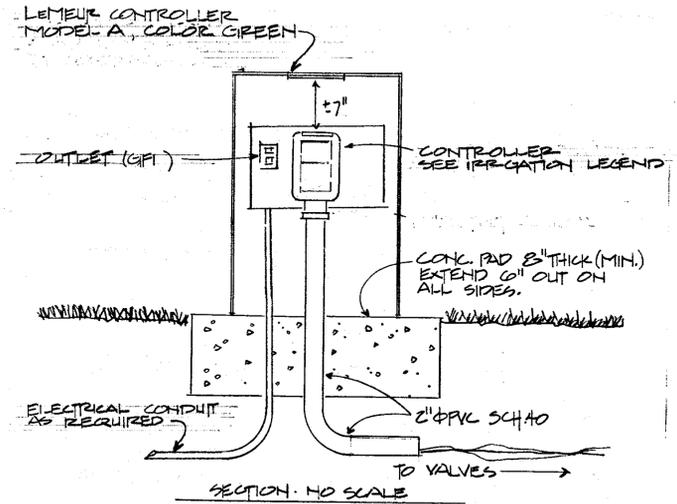
TREE PLANTING
NO SCALE



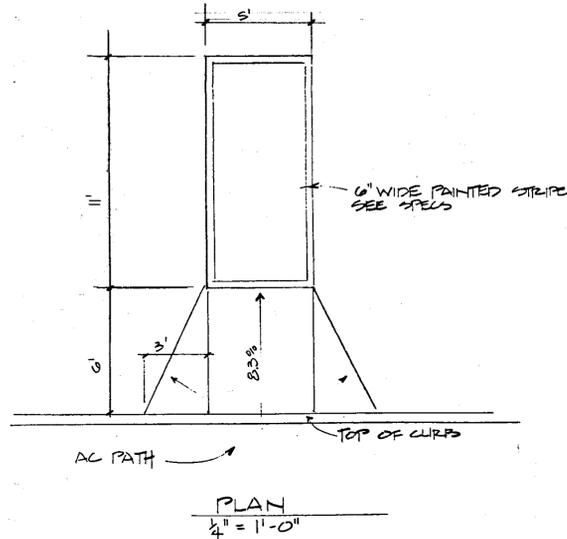
Notes:

1. Mulch as specified
2. Set crown 1 1/2" above finish grade to allow for settlement
4. Planting hole: twice the diameter and depth of rootball; scarify sides and bottom
3. 4" berm for watering basin
5. Lightly scarify rootball
6. Backfill mix: 1/3 nitrified soil, 2/3 site soil
7. Finish grade
8. Agriform tablets (22-10-12) 1 per 1 gallon, 2 per 5 gallon, 3 per 15 gallon

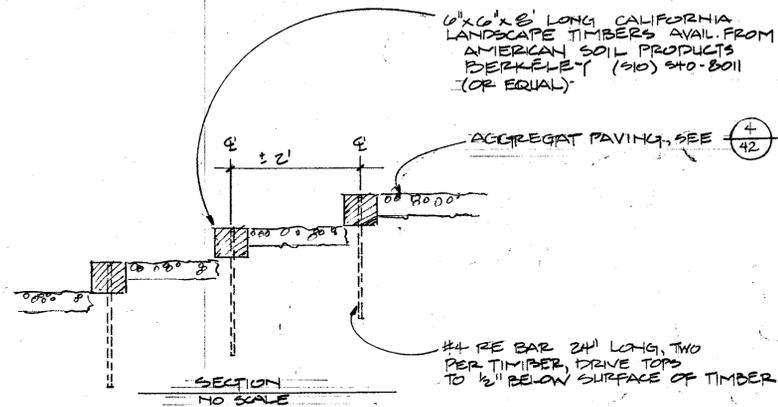
SHRUB PLANTING
NO SCALE



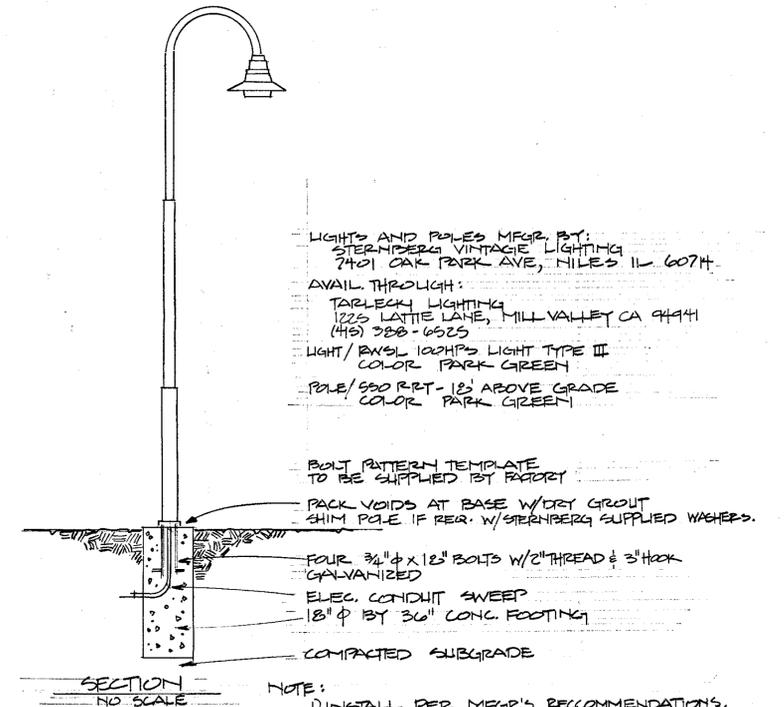
CONTROLLER



1
44
A.C. RAMP



2
44
TIMBER STEPS



3
44
INLAND LIGHTS

LIGHTS AND POLES MFG. BY:
STERNBERG VINTAGE LIGHTING
7401 OAK PARK AVE, HILLS IL 60714
AVAIL THROUGH:
TARLECK LIGHTING
1225 LATTIE LANE, MILL VALLEY CA 94741
(415) 388-0525
LIGHT / BAYSL 100HPS LIGHT TYPE III
COLOR PARK GREEN
POLE / 500 RPT - 12' ABOVE GRADE
COLOR PARK GREEN

BOLT PATTERN TEMPLATE
TO BE SUPPLIED BY FACTORY
PACK VOIDS AT BASE W/ DRY GROUT
SHIM POLE IF REQ. W/ STERNBERG SUPPLIED WASHERS.

FOUR 3/4" ϕ X 12" BOLTS W/ 2" THREAD & 3" HOOK
GALVANIZED
ELEC. CONDUIT SWEEP
12" ϕ BY 36" CONC. FOOTING

NOTE:
1) INSTALL PER MFR'S RECOMMENDATIONS.
2) SEE SHEET #40 FOR NUMBER AND APPROX.
LOCATION. FINAL LOCATION TO BE APPROVED
BY LANDSCAPE ARCHITECT.

C:\PROJECTS\ECKLEY\ECKLEY.DWG

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED

design: *Ray Johnson*

operations: *Ray Johnson*

scale: AS SHOWN

drawn: STAFF

checked: ML

date: 6/27/96



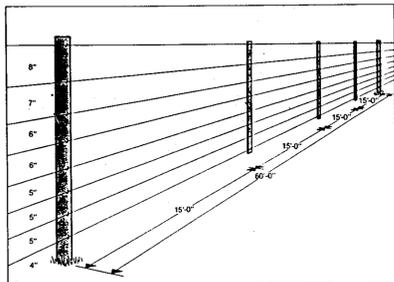
DETAILS
INLAND IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL PARK
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NUMBER 065A-2 CONTRACT NUMBER 05-28-98

SHEET NO.

44

OF: 45

NO:



SPECIFICATIONS:
 Height to top wire: 46"
 Wire spacing from ground up, inches: 4, 5, 5, 5, 6, 6, 7, 8
 Post height after driving: 48"
 Gate post length and diameter: 8' x 6", driven 48"
 End post length and diameter: 8' x 6", driven 48"
 First brace post: 8' x 5", driven 48"
 Second brace post: 8' x 4", driven 48"
 Top braces: 8' x 4"
 Brace pins: two 9" x 3/8" and one 4" x 3/8" galvanized steel pins, per assembly
 Twitch sticks: two 1-1/2" x 2" x 24" pressure-treated, per double-span assembly
 Line posts: 6" x 4", driven 30"
 Rise and dip posts: 8' x 4", driven 48"
 Post spacing: 60' centers
 Droppers: Angle-Groove or Multi-Groove: Light grazing pressure, 15' spacing;
 Medium grazing pressure, 10' spacing; Heavy grazing pressure, 5' spacing
 Wire: USS MAX-TEN 200 HIGH-TENSILE FENCE WIRE
 Minimum wire tension: 250 lbs. per wire
 Staples: 1-3/4" galvanized, six-point
 Tension devices: One in-line wire strainer per wire (and one handle)
 Tension Indicator Spring: One for each set of in-line wire strainers
 Wire joints: Figure 8 knots, three crimped sleeves or wirelinks
 Ground rods and clamps: Dry soil, one per each 150'; moist soil, one per each 300'

NOTE: ALL POSTS AND TWITCH STICKS SHALL BE CHEMONITE PRES.-TREATED LOGGED PINE.

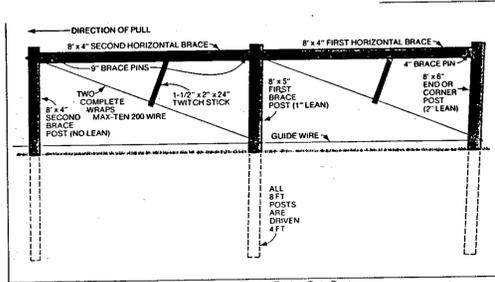


Figure 15. Side view of Double-Span Brace Assembly at an End or Gate Post

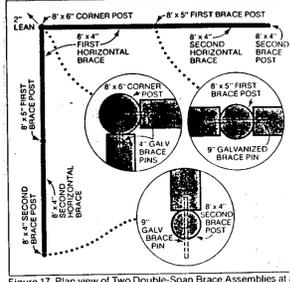


Figure 17. Plan view of Two Double-Span Brace Assemblies at a 90° Corner.

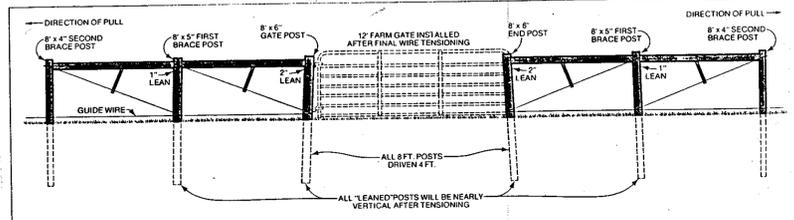


Figure 16. Side view of Two Double-Span Brace Assemblies at a Gate

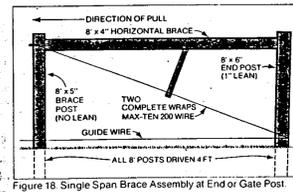


Figure 18. Single Span Brace Assembly at End or Gate Post

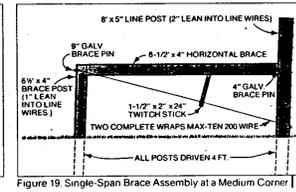


Figure 19. Single-Span Brace Assembly at a Medium Corner

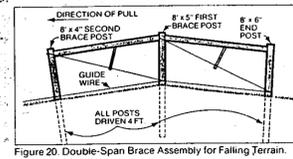


Figure 20. Double-Span Brace Assembly for Falling Terrain.

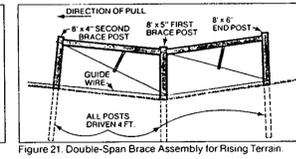
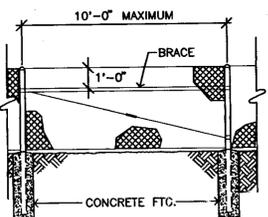


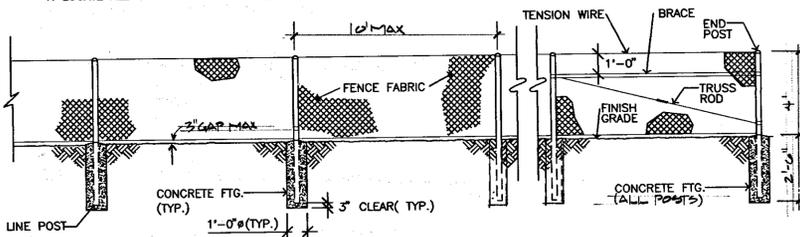
Figure 21. Double-Span Brace Assembly for Rising Terrain.

1
45 TENSILE WIRE FENCE

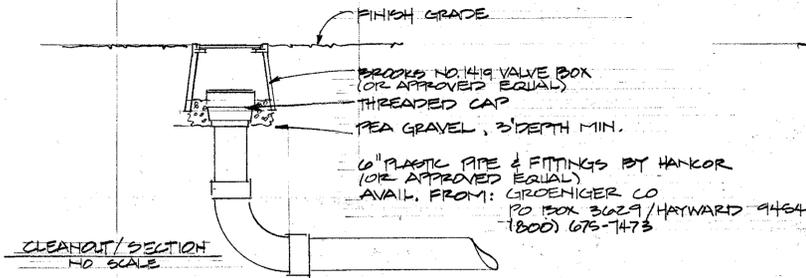
LINE POSTS AT 1000' MAXIMUM INTERVALS BRACED AND TRUSSED IN BOTH DIRECTIONS. EXCEPT THAT THIS BRACING AND TRUSSING MAY BE OMITTED WHEN THE FABRIC IS STRETCHED BY EQUIPMENT.



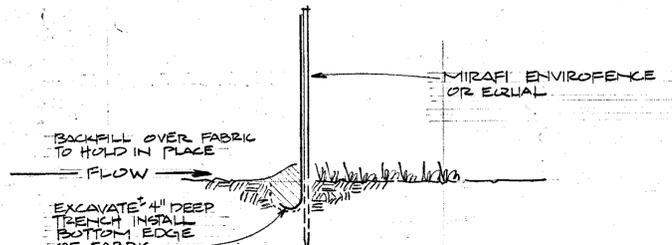
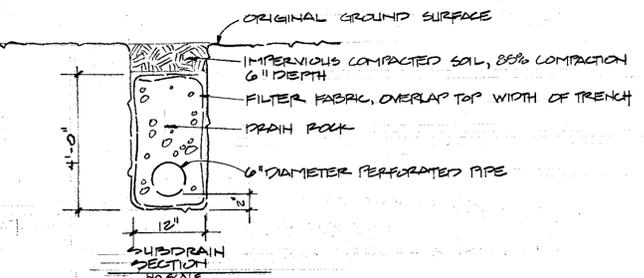
NOTES:
 1. LOCATE ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATING POST HOLES.



NOTES:
 1) CONTRACTOR SALVAGE AND RELOCATE FENCE SOUTH OF RR TRACKS. DAMAGED SECTION OF FABRIC TO BE REMOVED. SPLICE IN AT BRACED LINE POST WITH STRUTCHER BAR.
 2) CONTRACTOR HAS OPTION OF RE-USING EXST. POSTS OR INSTALLING NEW POSTS.
 3) NEW POSTS AND NEW FABRIC IF ANY TO MATCH EXST.



3
45 SUBDRAIN



2
45 CHAIN LINK FENCING

4
45 SILT FENCE (UNIT PRICE ITEM #16)

C:\PROJECTS\ECKLEY\ECKLEY.DWG

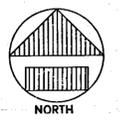
REVISIONS



EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
 design: *[Signature]*
 operations: *[Signature]*

scale: AS SHOWN
 drawn: STAFF
 checked: ML
 date: 6/27/96



DETAILS
 INLAND IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL PARK
 CONTRA COSTA COUNTY, CALIFORNIA
 PROJECT NUMBER 895A-2 CONTRACT NUMBER 05-88-89

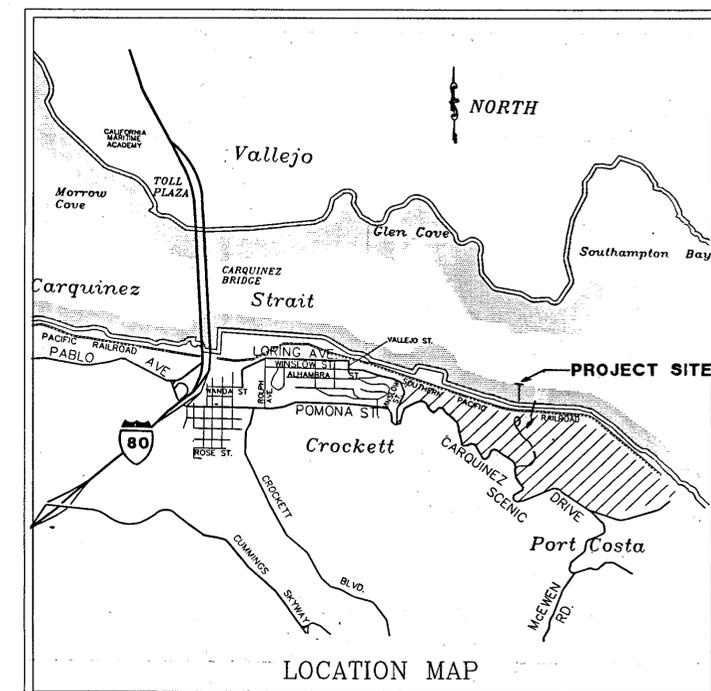
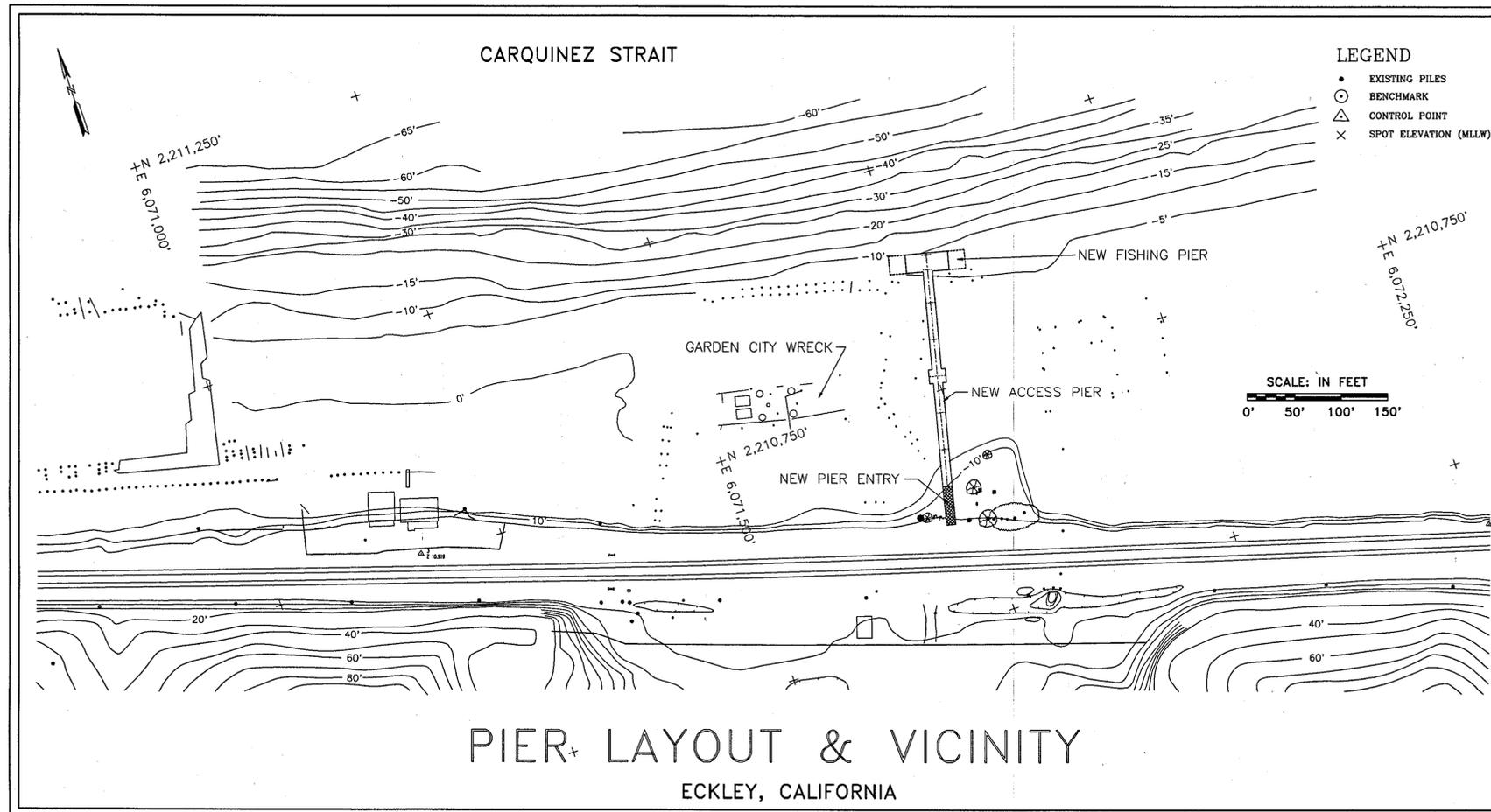
SHEET NO. **45**
 OF: 45
 NO:

FISHING PIER IMPROVEMENT PLANS

CARQUINEZ STRAIT REGIONAL SHORELINE

SHEET INDEX

- T1: TITLE SHEET
- C1: DEMOLITION AND SITE PLAN
- C2: PIER LAYOUT PLAN
- C3: PIER PROFILE
- S1: PILE PLAN
- S2: FRAMING PLAN
- S3: PIER DETAILS
- S4: PIER DETAILS
- A1: FENCE/WATER LINE/DETAILS
- A2: PIER APPROACH/DETAILS
- A3: PIER AMENITIES
- A4: DETAILS
- A5: RAILING DETAIL
- E1: ELECTRICAL/TELEPHONE
- U1: UTILITY PLAN & LAYOUT
- U2: UTILITY DETAILS



ABBREVIATIONS

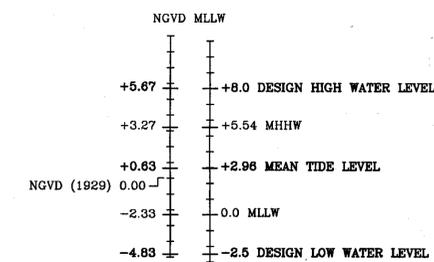
- BMK - Benchmark
- CP - Control Point
- CSPCS - CALIFORNIA STATE PLANE COORDINATE SYSTEM
- MHHW - Mean Higher High Water
- MLLW - Mean Lower Low Water
- NGVD - National Geodetic Vertical Datum

GENERAL NOTES

1. Existing topography and site features are based on an aerial topographic survey performed by Hammon, Jensen, Wallen & Associates, Oakland, CA, referenced to State Plane Coordinate System NAD 1983, Zone 3. Vertical and horizontal control points were provided by Tucker & Associates, Calistoga, CA. Onshore elevations and contours are in feet and referenced to MEAN LOWER LOW WATER (MLLW).
2. Bathymetric contours are from a survey by Sea Surveyor Inc., Benicia, CA, conducted on December 15, 1994. Contours and spot elevations are in feet and referenced to MLLW.
3. Contractor shall call USA Underground Service Alert at (800) 642-2444 not less than 2 working days prior to commencing any excavation on the project.

APN: 354-030-010

ZI: 957222



DATUM REFERENCES
(ECKLEY SITE)



C:\PROJECTS\ECKLEY\T1

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: *[Signature]*
operations: *[Signature]*

scale: AS SHOWN
drawn: CIR
checked: CIR
date: 5/22/97

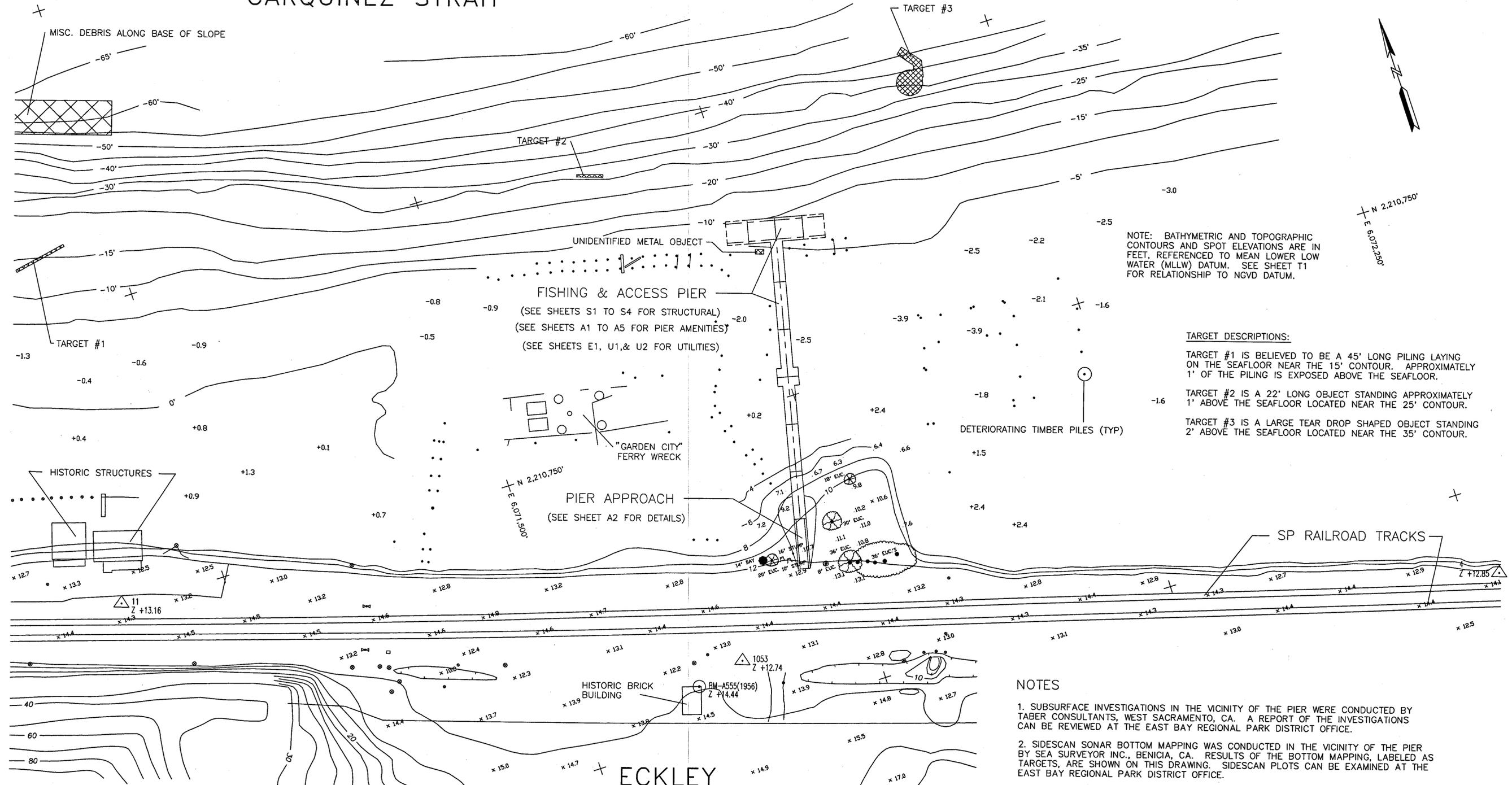


TITLE SHEET
FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NO. 695A CONTRACT NO. 16-97-99

PROJECT ENGINEER:
CHARLES I. RAUW
Consulting Engineers 1605 Ortega Drive, Martinez, CA 94553 (510)229-9637

SHEET NO.
T1
OF: 16
NO:

CARQUINEZ STRAIT



NOTE: BATHYMETRIC AND TOPOGRAPHIC CONTOURS AND SPOT ELEVATIONS ARE IN FEET, REFERENCED TO MEAN LOWER LOW WATER (MLLW) DATUM. SEE SHEET T1 FOR RELATIONSHIP TO NGVD DATUM.

TARGET DESCRIPTIONS:

- TARGET #1 IS BELIEVED TO BE A 45' LONG PILING LAYING ON THE SEAFLOOR NEAR THE 15' CONTOUR. APPROXIMATELY 1' OF THE PILING IS EXPOSED ABOVE THE SEAFLOOR.
- TARGET #2 IS A 22' LONG OBJECT STANDING APPROXIMATELY 1' ABOVE THE SEAFLOOR LOCATED NEAR THE 25' CONTOUR.
- TARGET #3 IS A LARGE TEAR DROP SHAPED OBJECT STANDING 2' ABOVE THE SEAFLOOR LOCATED NEAR THE 35' CONTOUR.

NOTES

1. SUBSURFACE INVESTIGATIONS IN THE VICINITY OF THE PIER WERE CONDUCTED BY TABER CONSULTANTS, WEST SACRAMENTO, CA. A REPORT OF THE INVESTIGATIONS CAN BE REVIEWED AT THE EAST BAY REGIONAL PARK DISTRICT OFFICE.
2. SIDESCAN SONAR BOTTOM MAPPING WAS CONDUCTED IN THE VICINITY OF THE PIER BY SEA SURVEYOR INC., BENICIA, CA. RESULTS OF THE BOTTOM MAPPING, LABELED AS TARGETS, ARE SHOWN ON THIS DRAWING. SIDESCAN PLOTS CAN BE EXAMINED AT THE EAST BAY REGIONAL PARK DISTRICT OFFICE.
3. THE SITE HAS NUMEROUS EXPOSED DETERIORATING TIMBER PILES WHICH WERE PART OF PREVIOUS PIER AND MOORING STRUCTURES. THE PROBABILITY OF ADDITIONAL PILES AND OBSTRUCTIONS ASSOCIATED WITH THE HISTORIC MARITIME USE OF THE SITE EXISTS.
4. REMOVAL OF EXISTING PILES DURING CONSTRUCTION SHALL BE MINIMIZED. CONTRACTOR SHALL SUBMIT A PLAN SHOWING WHICH PILES ARE PLANNED TO BE REMOVED PRIOR TO MOVING ANY EQUIPMENT ON SITE.
5. RIPRAP (STONE, CONCRETE & BRICK) EXTENDS ALONG THE SHORELINE FROM TOP OF BANK TO LOW WATER. THICKNESS AND EXTENT OF RIPRAP IS NOT ACCURATELY KNOWN.

- LEGEND**
- EXISTING PILES
 - ⊙ BENCHMARK
 - △ CONTROL POINT
 - × SPOT ELEVATION (MLLW)

HORIZONTAL & VERTICAL CONTROL					
STATION	NORTHING (FT-SPCS)	EASTING (FT-SPCS)	ELEVATION (FT-NGVD)	ELEVATION (FT-MLLW)	DESCRIPTION
4	2,210,426.729	6,072,264.489	10.52	12.85	SET 1/2" REBAR
11	2,210,754.752	6,071,162.040	10.83	13.16	SET 1/2" REBAR
1053	2,210,550.068	6,071,640.700	10.41	12.74	SET 1/2" REBAR
CAR2	2,206,653.743	6,077,777.611	356.86	359.19	C&GS CARQUINEZ PT.2
CROK	2,206,749.878	6,063,681.596	596.72	599.05	C&GS CROCKETT 1932
A555	--	--	12.11	14.44	C&GS MONUMENT A555 (1956)

NOTE: SPOT ELEVATIONS AND CONTOURS ARE REFERENCED TO MLLW DATUM.



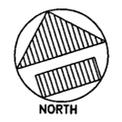
REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: *[Signature]*
operations: *Ray Lawson*

scale: 1"=40'
drawn: CIR
checked: CIR
date: 5/22/97

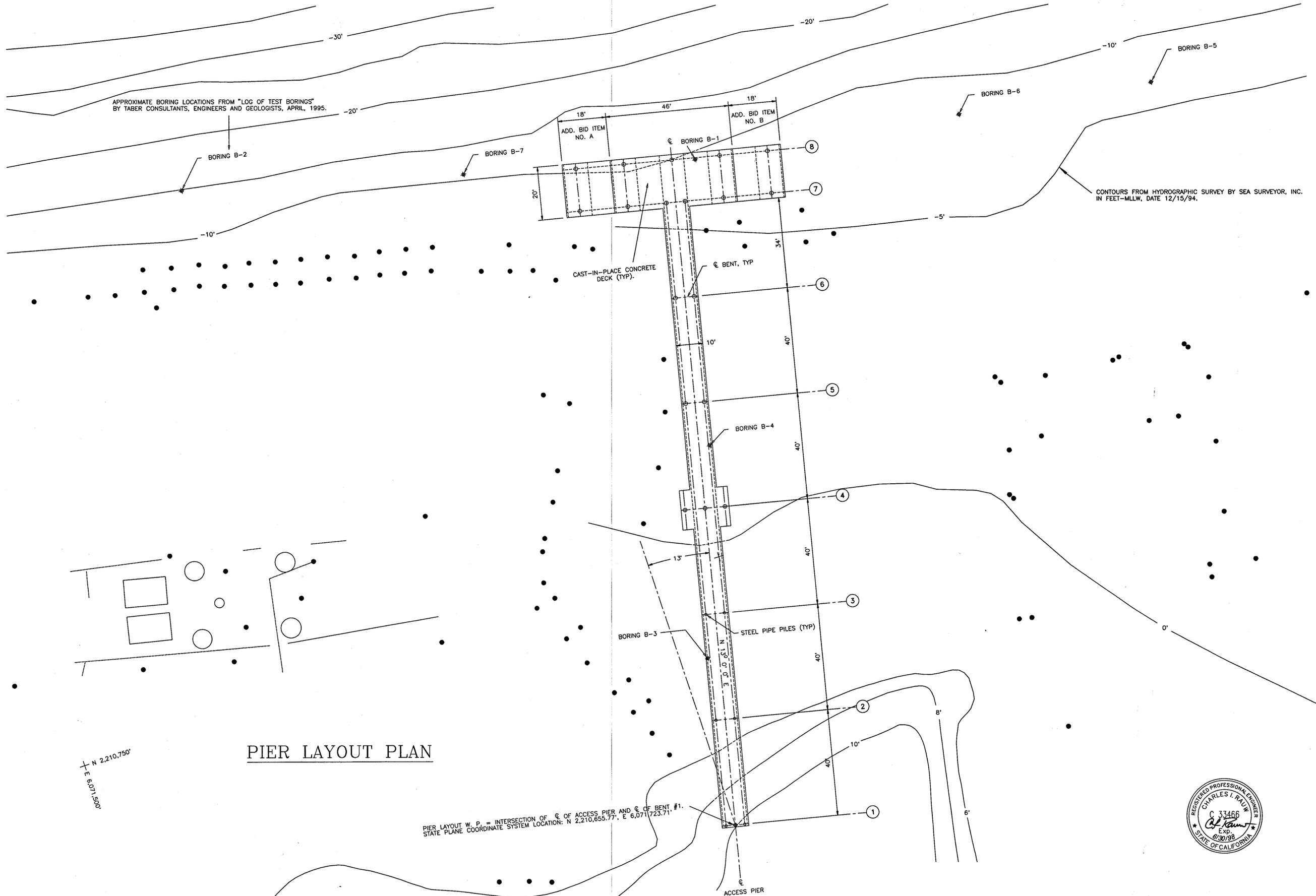


DEMOLITION AND SITE PLAN
FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NO. 095A CONTRACT NO. 19-97-09

SHEET NO.
C1
OF: 16
NO:

C:\PROJECTS\ECKLEY\G1

PROJECT ENGINEER:
CHARLES I. RAU
Consulting Engineers 1505 Ortega Drive, Martinez, CA 94553 (510) 229-9637



APPROXIMATE BORING LOCATIONS FROM "LOG OF TEST BORINGS" BY TABER CONSULTANTS, ENGINEERS AND GEOLOGISTS, APRIL, 1995.

CONTOURS FROM HYDROGRAPHIC SURVEY BY SEA SURVEYOR, INC. IN FEET-MLLW, DATE 12/15/94.

PIER LAYOUT PLAN

N 2,210,750'
E 6,071,500'

PIER LAYOUT W. P. = INTERSECTION OF C. OF ACCESS PIER AND C. OF BENT #1.
STATE PLANE COORDINATE SYSTEM LOCATION: N 2,210,655.77', E 6,071,723.71'



REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: [Signature]
operations: Ray Dawson

scale: 1/16" = 1'-0"
drawn: CIR
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date: 5/22/97

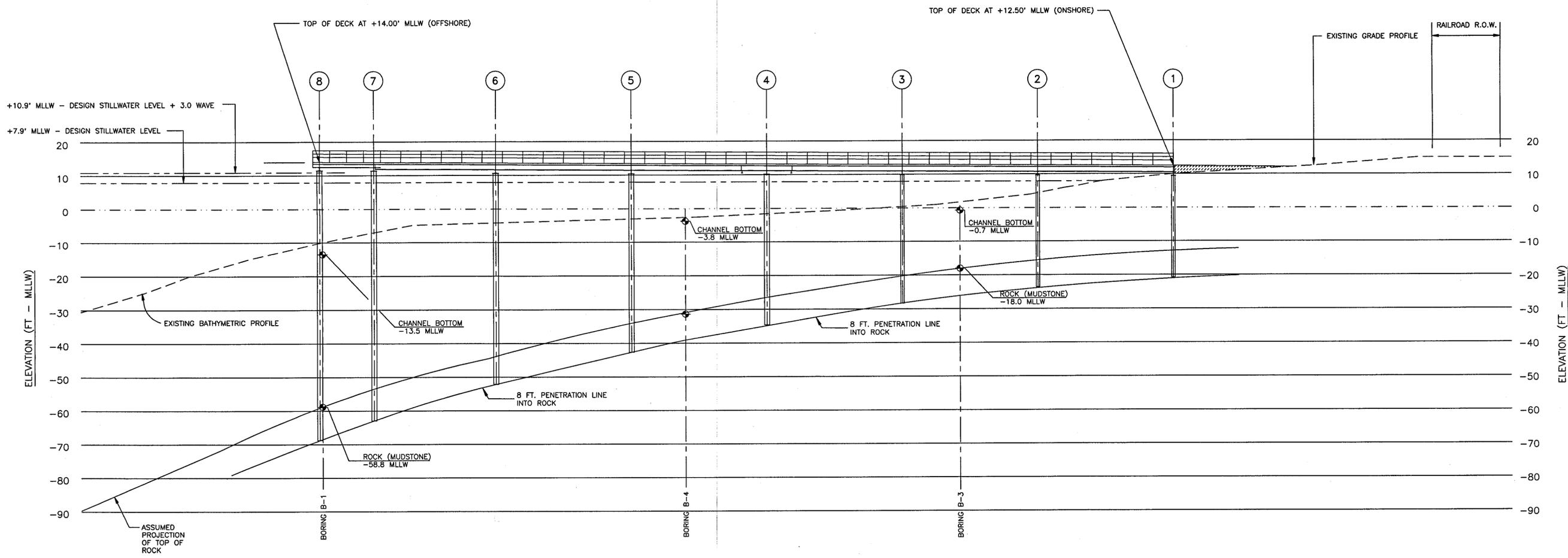


DECK + PILE LAYOUT
FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NO. 995A CONTRACT NO. 18-47-99

SHEET NO.
C2
OF: 16
NO:

PROJECT ENGINEER:
CHARLES I. RAUW
Consulting Engineers 1805 Orfuge Drive, Martinez, CA 94553 (510) 229-9637

C:\PROJECTS\ECKLEY\C2



C E N T E R L I N E P I E R P R O F I L E

SCALE: 1" = 15'

NOTE: DEPTH TO BEDROCK PROFILE ALONG CENTERLINE OF PIER AND 8 FOOT PILE EMBEDMENT PROFILE WERE EXTRAPOLATED FROM SITE BORING INFORMATION. ACTUAL CONDITIONS ARE LIKELY TO VARY FROM THE ASSUMED PROFILES SHOWN ABOVE. CONTRACTOR SHALL MAKE AN INDEPENDENT EVALUATION OF REQUIRED PILE LENGTHS - SEE SPECIFICATIONS DIVISION P2 - SUBSURFACE INVESTIGATION.



PROJECT ENGINEER:
CHARLES I. RAUW
 Consulting Engineers 1605 Orinda Drive, Marinette, Ct 94637 (510)229-9637

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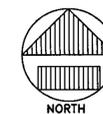
REVISIONS



EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

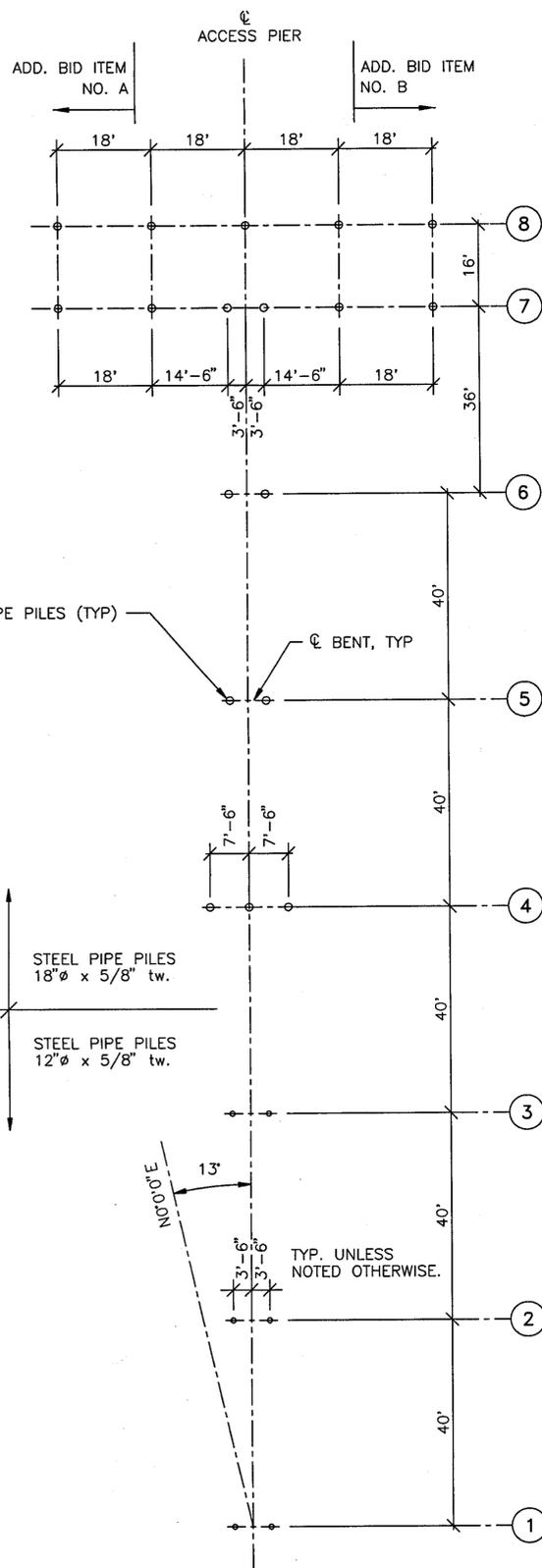
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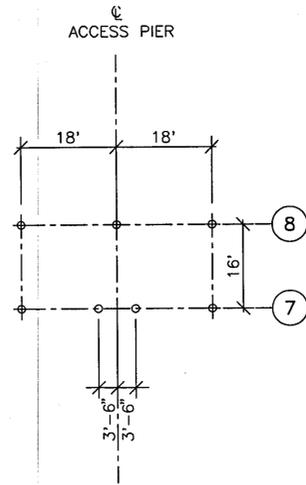
PIER PROFILE / LONGIT. CROSS SECTION
 FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CALIFORNIA
 PROJECT NO. 085A CONTRACT NO. 18-97-09

SHEET NO.
C3
 OF: 16
 NO:



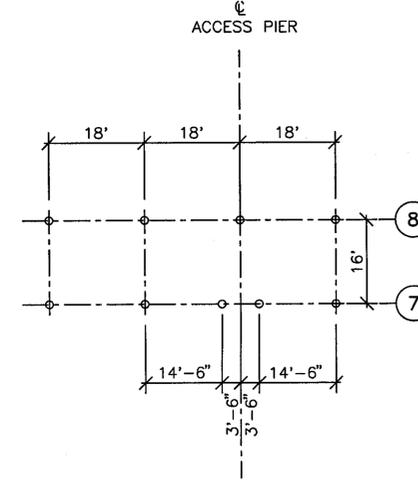
PILE PLAN — BASE BID PLUS
ADD. BID ITEMS NO. A & NO. B.

SCALE: 1/16" = 1'-0"



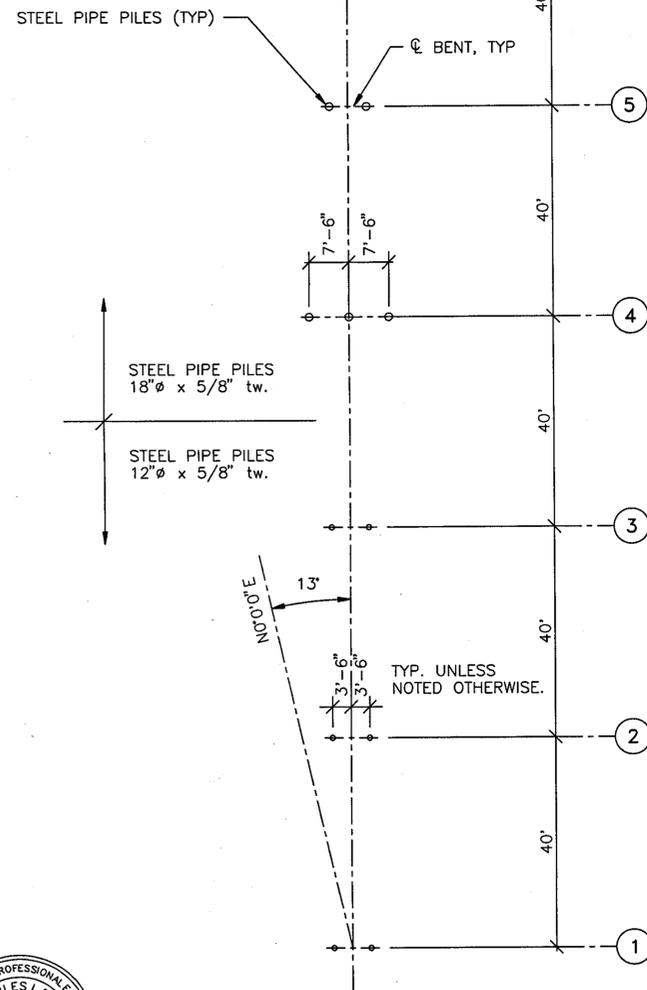
PARTIAL PILE PLAN — PIER HEAD
SHOWING BASE BID CONFIGURATION ONLY.

SCALE: 1/16" = 1'-0"



PARTIAL PILE PLAN — PIER HEAD
SHOWING BASE BID PLUS ADD. BID ITEM NO. A.

SCALE: 1/16" = 1'-0"



CAP PLATE 3/4" THICK. MAKE 22" SQ.
FOR 18" PILES AND 16" SQ. FOR 12" PILES.
SHOP WELD TO PILE TOP RING.

PILE TOP RING, (MATCH PILE SECTION), SHOP
BEVEL LOWER EDGE AND INSTALL INSIDE GUIDE
RING PRIOR TO FIELD ATTACHING TO PILE.

INNER GUIDE RING, 3/8" SUGGESTED THICKNESS.
TAPER AS SHOWN FOR EASE OF ALIGNMENT.
SECURE TO TOP RING AS REQUIRED.

NEATLY FIELD CUT TOP
OF PILE AT THIS LINE

NOTE: INSTALL HEAT SHRINKABLE WRAP
AROUND SLEEVE AFTER INSTALLING
PILE CAP GIRDER AND MAKING ALL
FIELD WELDS AND APPLYING FIELD
TOUCH UP PAINT (INCLUDING PAINT
AT PILE CAP RING JOINT).

SEASZAR HEAT SHRINKABLE SLEEVE.
INSTALL IN STRICT ACCORDANCE
WITH MANUFACTURER'S REQMTS.

STEEL PIPE PILES, 12"Ø OR 18"Ø
PER PLAN.

PILE TOP DETAIL

SCALE: N.T.S.

A
S1



REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: *[Signature]*
operations: *[Signature]*

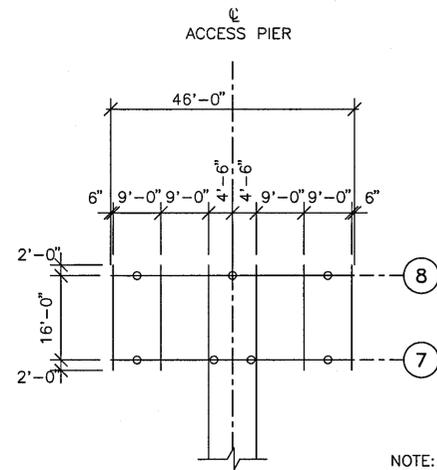
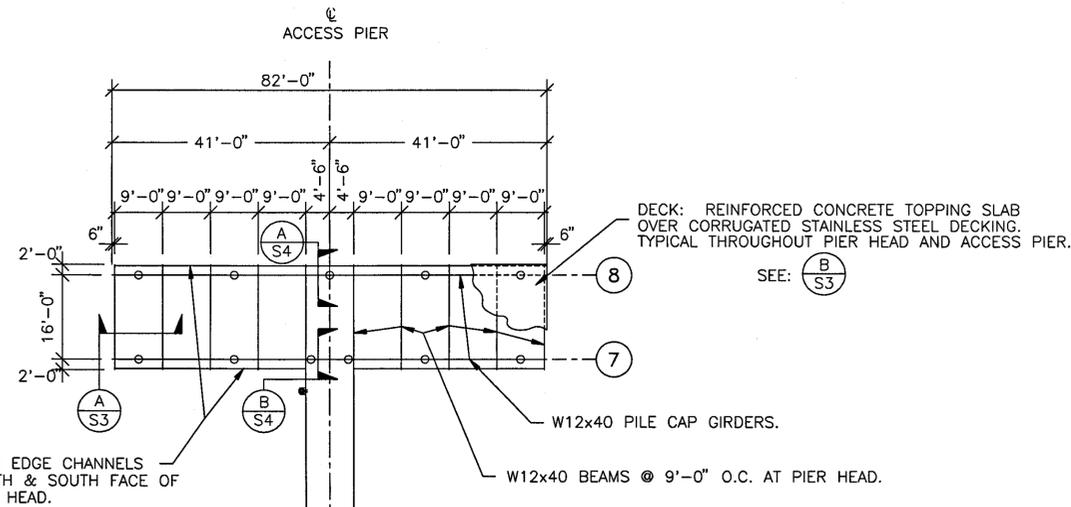
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PILE PLAN
FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NO. 665A2 CONTRACT NO. 15-97-66

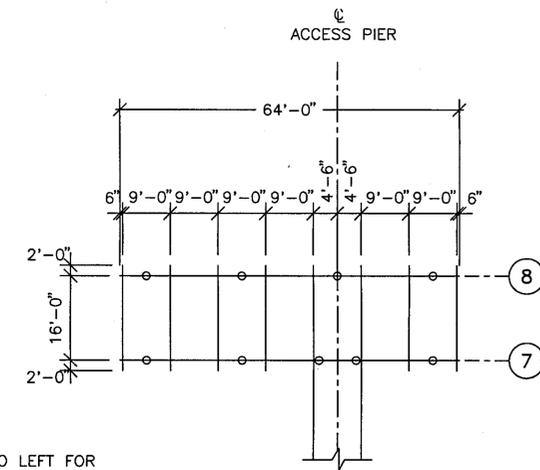
PROJECT ENGINEER:
CHARLES I. RAUW
Consulting Engineers 1505 Ortega Drive, Martinez, CA 94553 (510) 229-9837

SHEET NO.
S1
OF: 16
NO:



PARTIAL FRAMING PLAN - PIER HEAD SHOWING BASE BID CONFIGURATION ONLY.

SCALE: 1/16" = 1'-0"



PARTIAL FRAMING PLAN - PIER HEAD SHOWING BASE BID PLUS ADD. BID ITEM NO. A.

SCALE: 1/16" = 1'-0"

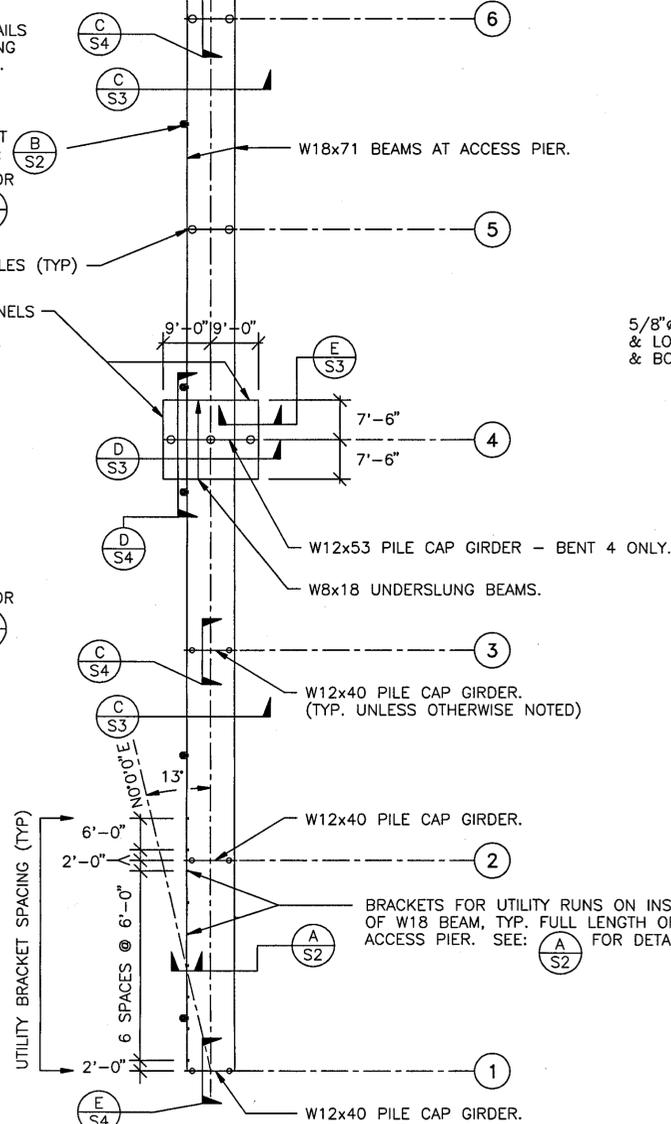
SEE SECTIONS AND DETAILS FOR TRIM STEEL, DECKING AND CONCRETE TOPPING.

LIGHT STANDARD SUPPORT BRACKETS (TYP) - SEE: SEE UTILITY DRAWINGS FOR LAYOUT & SPACING:

MC18x42.7 EDGE CHANNELS AROUND PERIMETER OF WIDENED SEATING AREA.

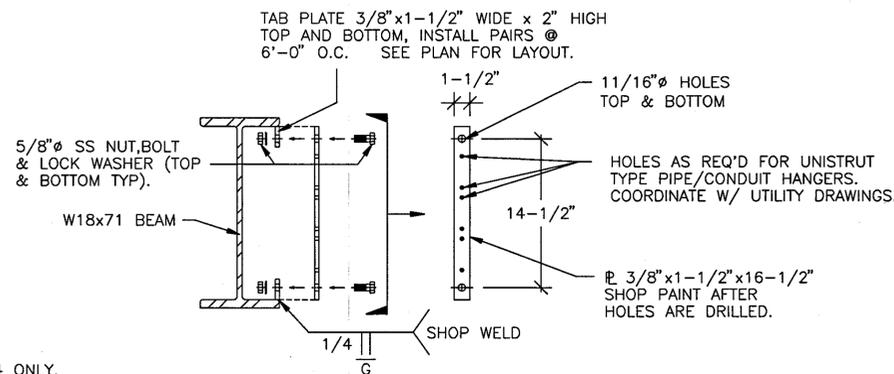
NOTE: GUARDRAIL POST SLEEVES ATTACHED TO EDGE TRIM ANGLE OR TRIM PLATE PER:

SEE UTILITY DRAWINGS FOR LAYOUT & SPACING:



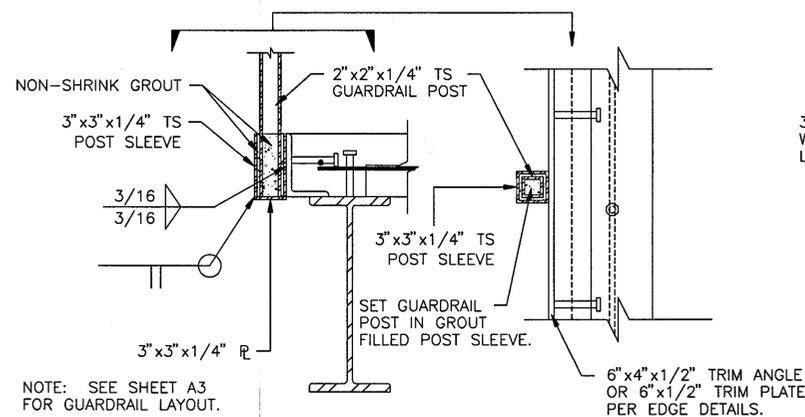
FRAMING PLAN - BASE BID PLUS ADD. BID ITEMS NO. A & NO. B.

SCALE: 1/16" = 1'-0"



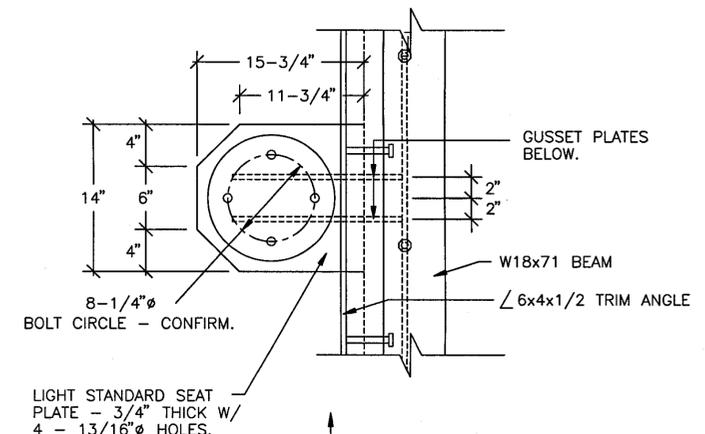
UTILITY BRACKET DETAIL

SCALE: 1-1/2" = 1'-0"



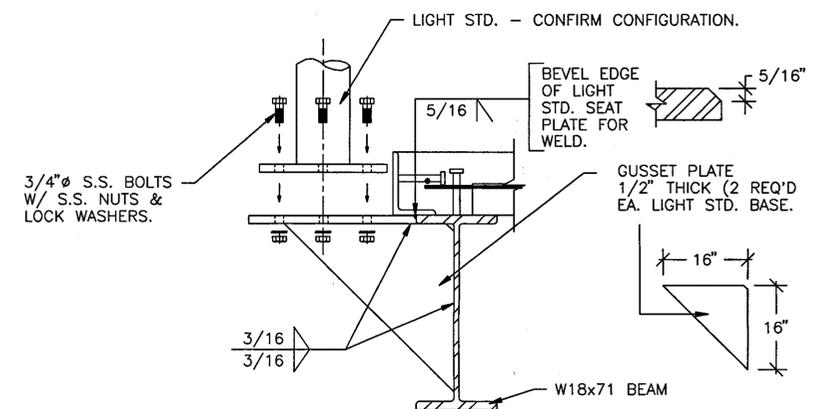
GUARDRAIL POST SLEEVE ATTACHMENT DETAIL

SCALE: 1-1/2" = 1'-0"



LIGHT STANDARD SUPPORT BRACKET DETAIL

SCALE: 1-1/2" = 1'-0"



LIGHT STANDARD SUPPORT BRACKET DETAIL

SCALE: 1-1/2" = 1'-0"



REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: [Signature]
checked: CIR
operations: Ray Lawson

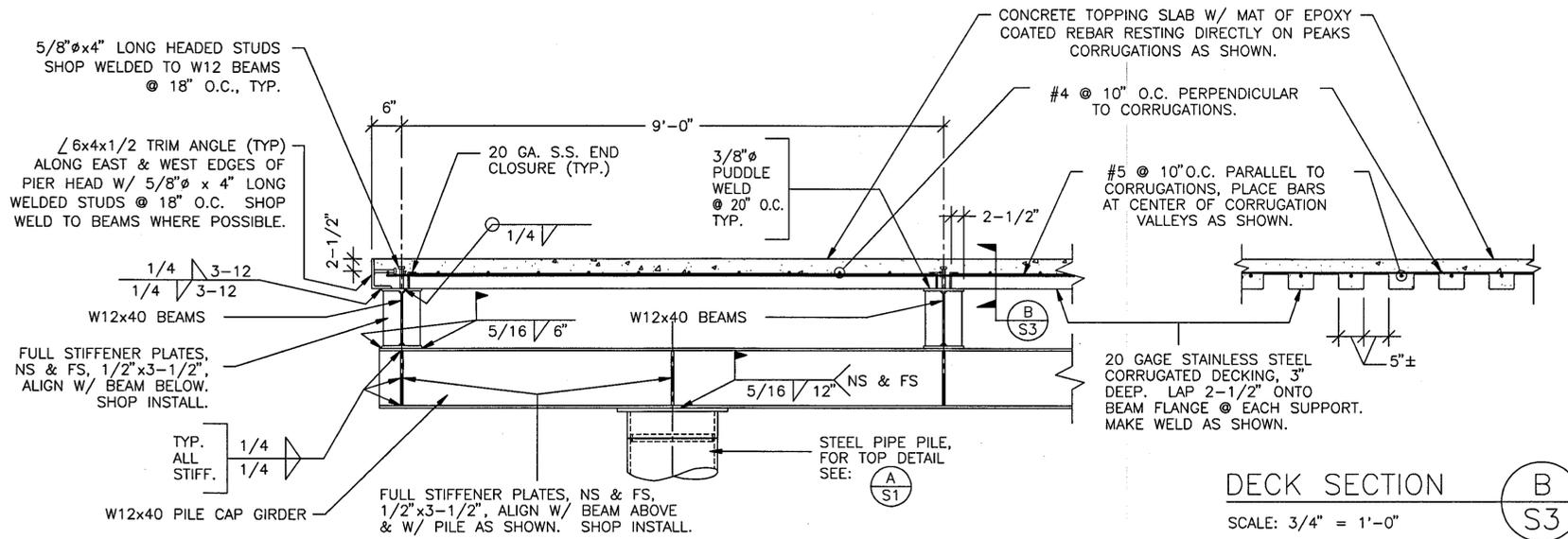
scale: AS SHOWN
drawn: CIR
checked: CIR
date: 5/22/97



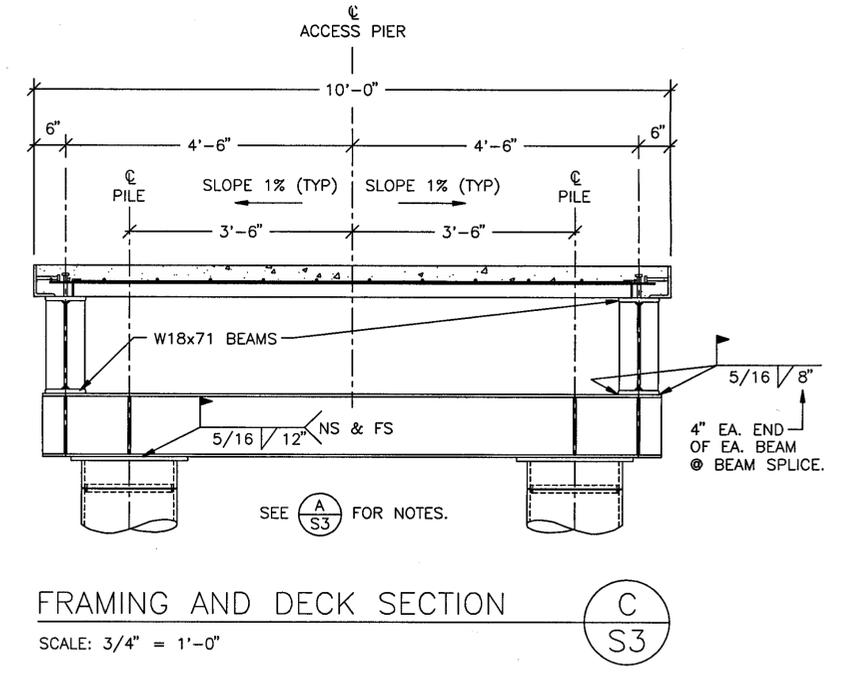
FRAMING PLAN
FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NO. 686A CONTRACT NO. 16-97-09

PROJECT ENGINEER:
CHARLES I. RAUW
Consulting Engineers 1605 Ortega Drive, Martinez, CA 94553 (510) 229-9637

SHEET NO.
S2
OF: 16
NO:

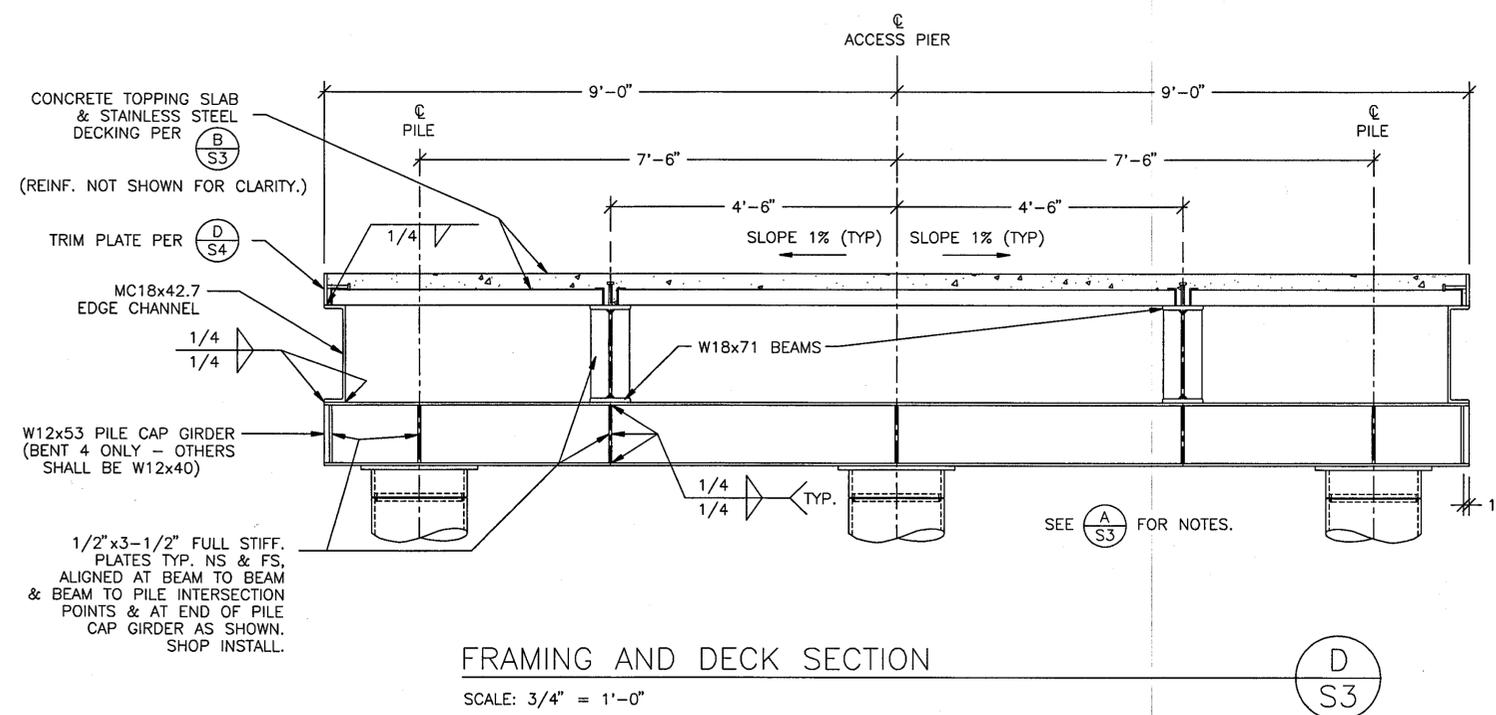


FRAMING AND DECK SECTION **A**
S3
SCALE: 3/4" = 1'-0"

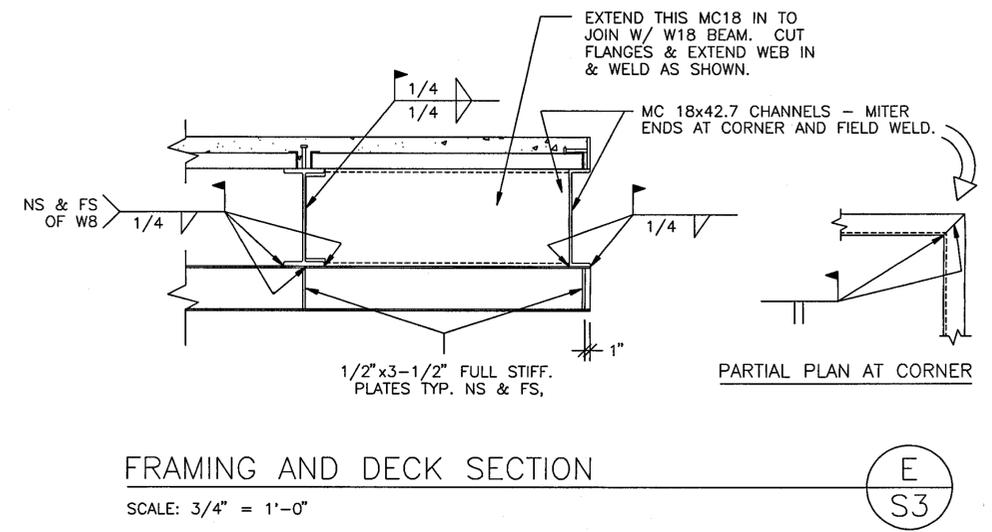


FRAMING AND DECK SECTION **C**
S3
SCALE: 3/4" = 1'-0"

NOTE: GUARDRAIL NOT SHOWN IN THESE VIEWS FOR CLARITY. SEE SHEET A5 FOR DETAILS.



FRAMING AND DECK SECTION **D**
S3
SCALE: 3/4" = 1'-0"



FRAMING AND DECK SECTION **E**
S3
SCALE: 3/4" = 1'-0"

C-PROJECTS/ECKLEY/S3

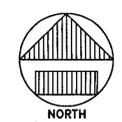
REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: *[Signature]*
operations: *[Signature]*

scale: 3/4" = 1'-0"
drawn: CIR
checked: CIR
date: 5/22/97

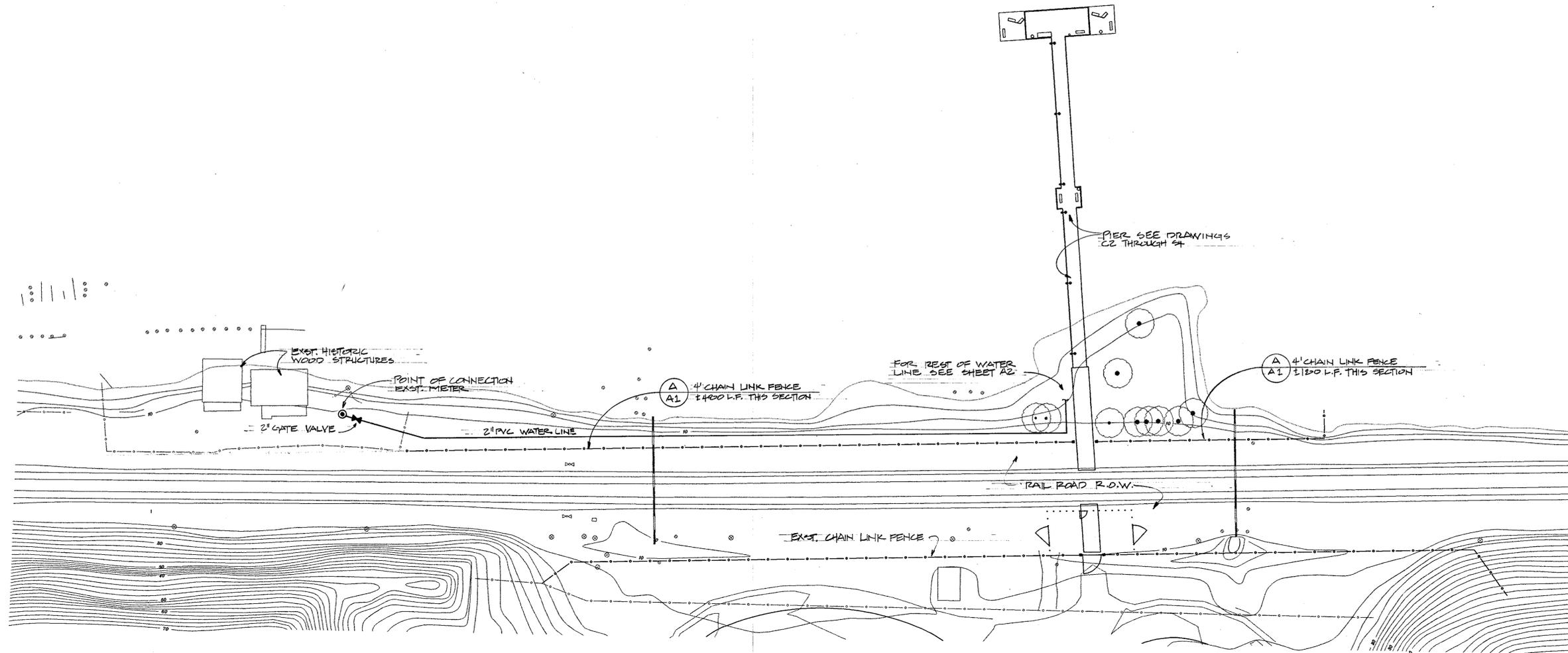


STRUCTURAL DETAILS
FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NO. 695A CONTRACT NO. 18-97-09



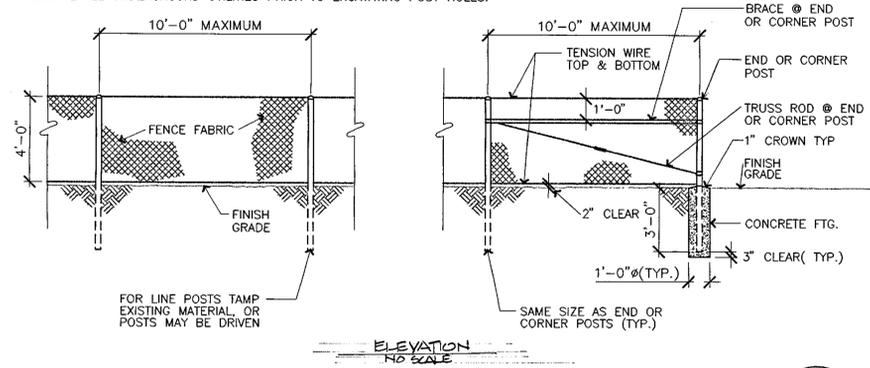
PROJECT ENGINEER:
CHARLES I. RAUW
Consulting Engineers 1505 Ortega Drive, Martinez, CA 94553 (510) 229-5637

SHEET NO. **S3**
OF: 16
NO:



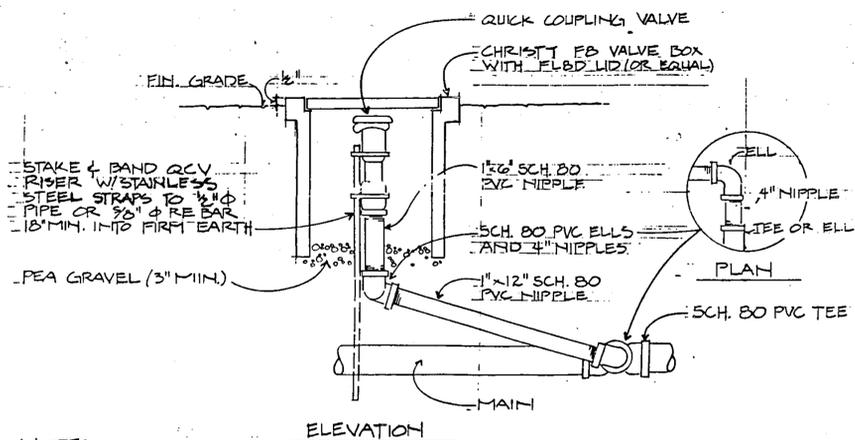
PIER AREA PLAN
SCALE 1" = 40'-0"

NOTE:
LOCATE ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATING POST HOLES.



4' CHAIN LINK FENCE

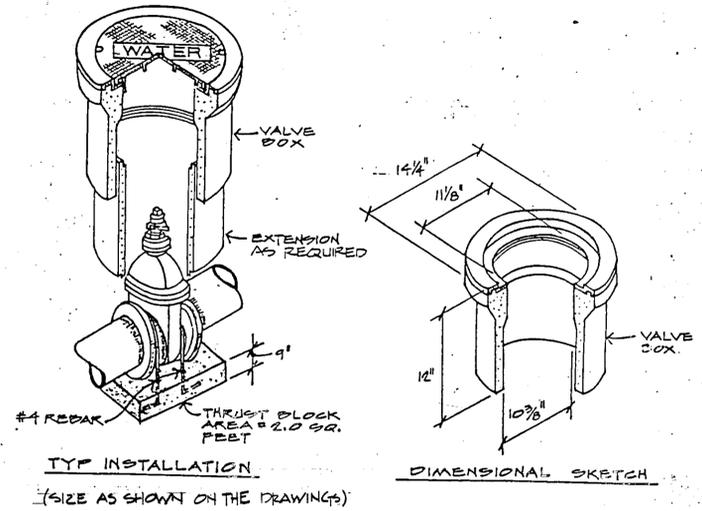
A
A1



NOTES:
1) USE DOUBLE LAP TEFLON TAPE ON ALL THREADED CONNECTIONS.

QUICK COUPLER VALVE

B
A1



GATE VALVE

C
A1

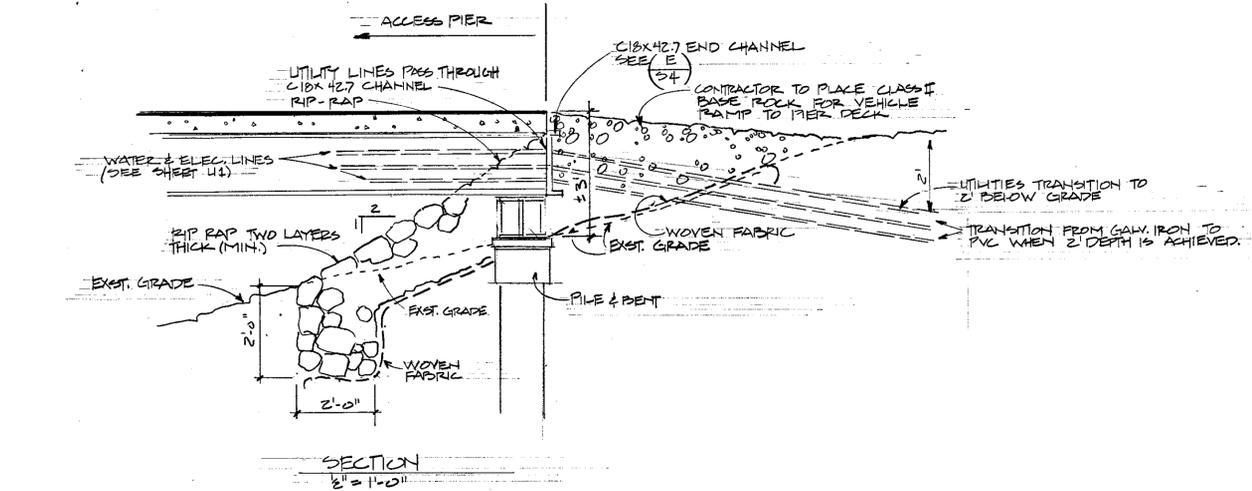
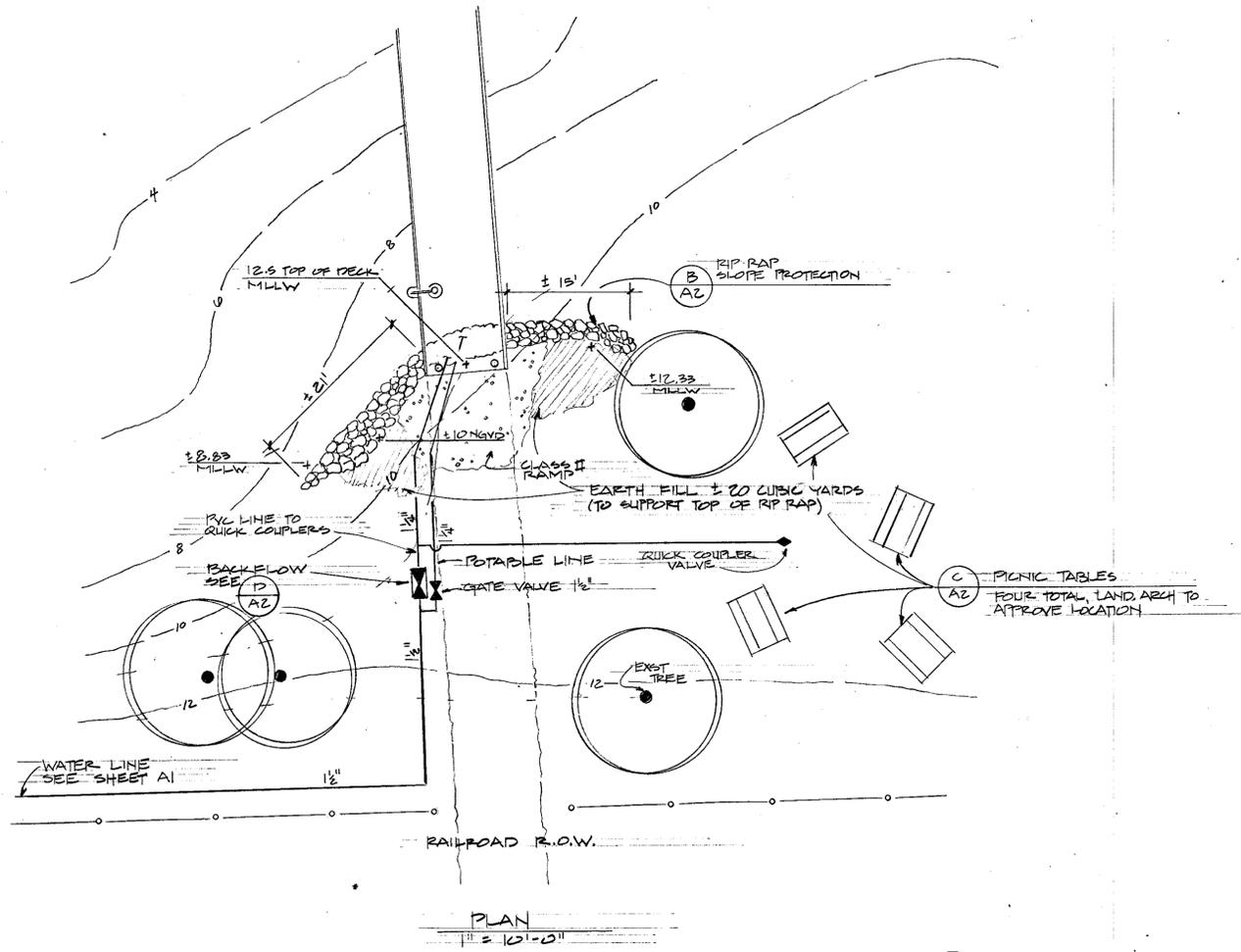
REVISIONS



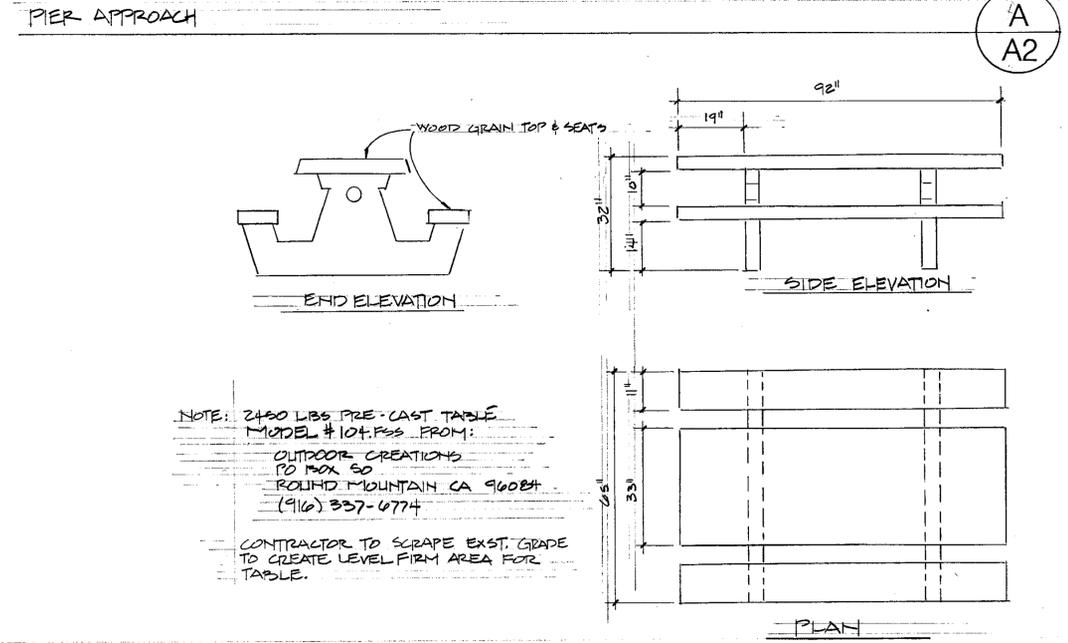
EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: *[Signature]*
operations: *[Signature]*

scale: AS SHOWN
drawn: M.L.
checked: Ed
date: 5/22/97

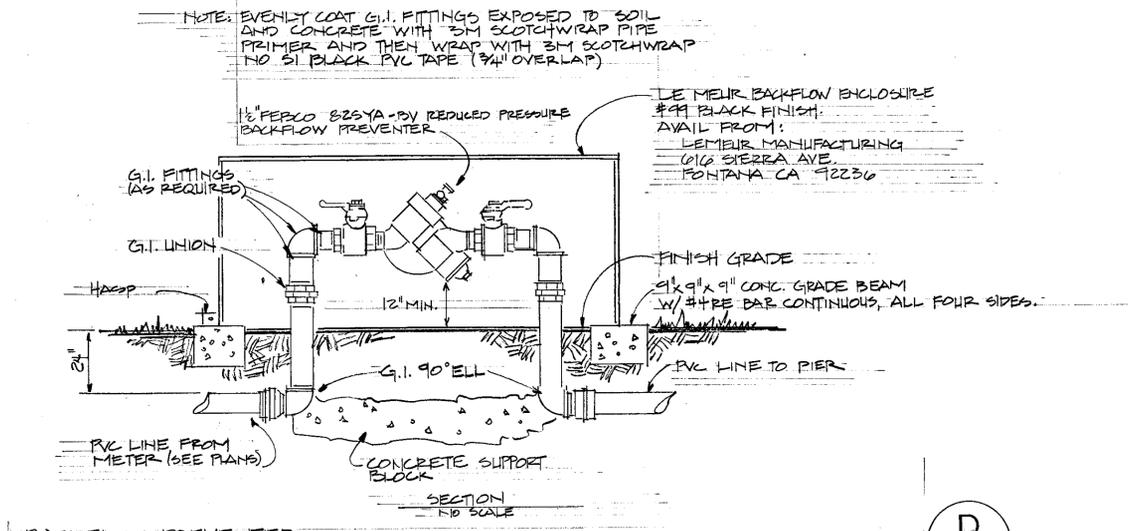


RIP RAP SLOPE PROTECTION B
A2

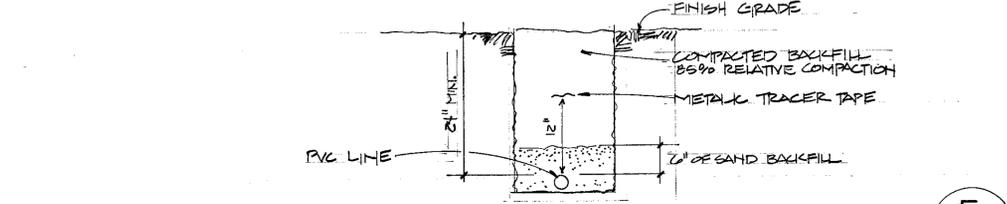


NOTE: 2450 LBS PRE-CAST TABLE MODEL #104.FSS FROM:
 OUTDOOR CREATIONS PO BOX 50
 ROUND MOUNTAIN CA 96084
 (916) 337-6774
 CONTRACTOR TO SCRAPE EXST. GRADE TO CREATE LEVEL FIRM AREA FOR TABLE.

PICNIC TABLE C
A2



BACKFLOW PREVENTER D
A2



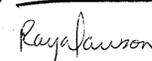
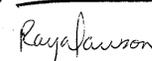
WATER SERVICE TRENCH E
A2

CAD FILE

REVISIONS



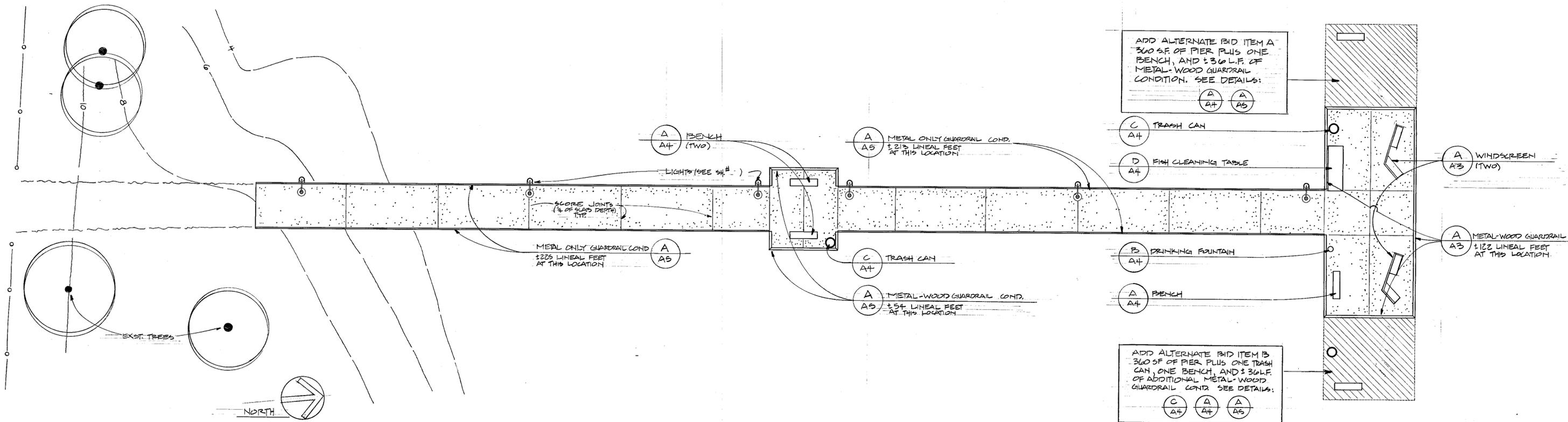
EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED 
 design: 
 operations: 

scale: AS SHOWN
 drawn: M.L.
 checked: Ed
 date: 5/22/97

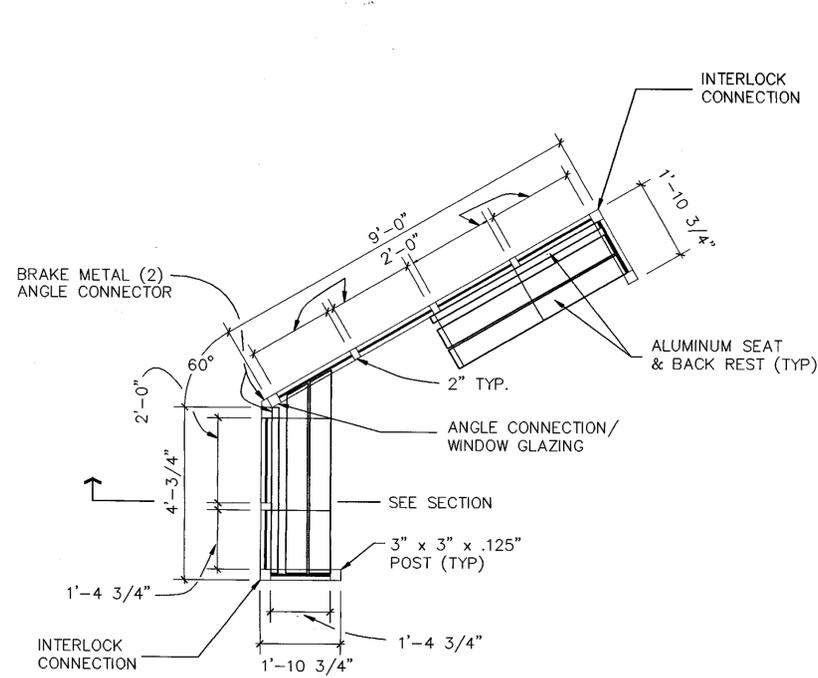
PIER APPROACH - DETAILS
 FISHING PIER IMPROVEMENTS PLAN
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CA.
 PROJECT NO. 695A CONTRACT NO. 16-97-69

SHEET NO. **A2**
 OF: 16



FISHING PIER PLAN

SCALE: 1" = 10'-0"

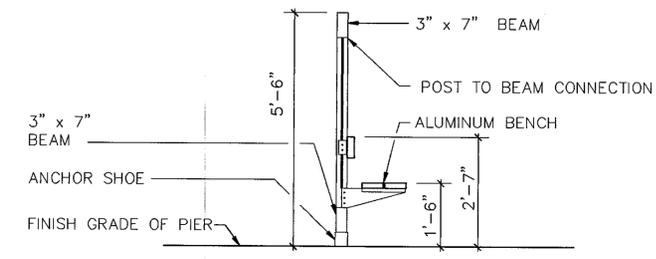


WINDSCREEN - PLAN

SCALE 1/2" : 1'-0"

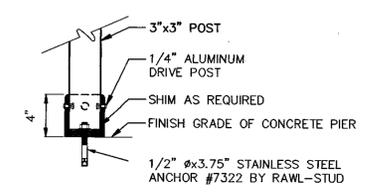
WINDSCREEN

SCALE AS SHOWN



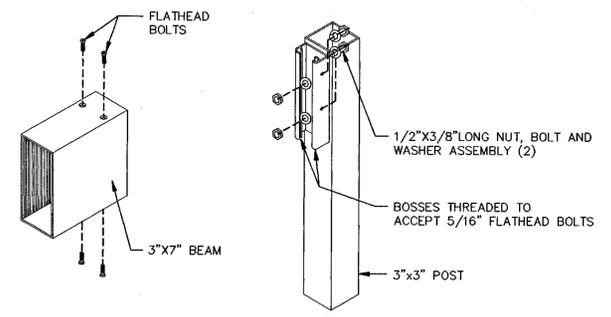
WINDSCREEN - SECTION

SCALE 1/2" = 1'-0"



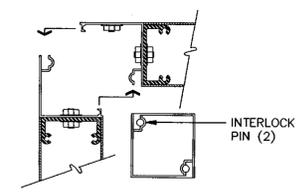
ANCHOR SHOE

NOT TO SCALE



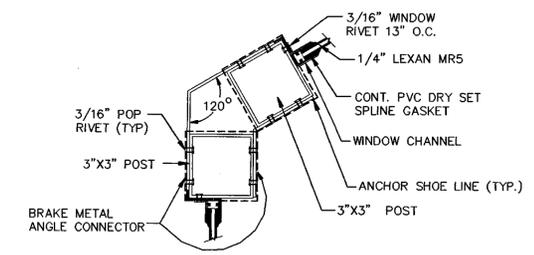
POST TO BEAM CONNECTION

NOT TO SCALE



INTERLOCK CONNECTION

NOT TO SCALE



ANGLE CONNECTION / WINDOW GLAZING

NOT TO SCALE

A
A3

CAD FILE

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: *[Signature]*
operations: *[Signature]*

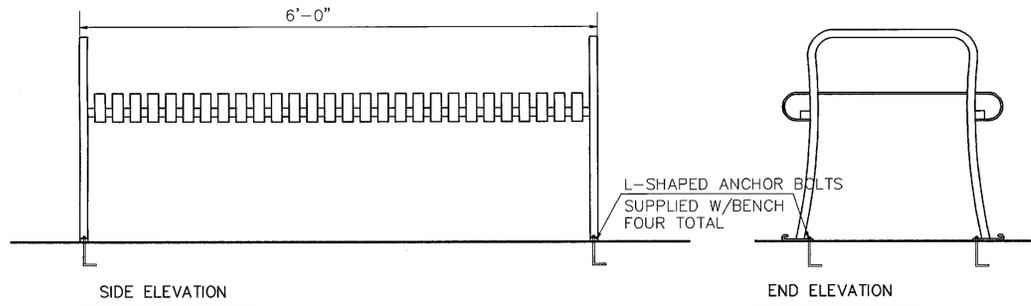
scale: AS SHOWN
drawn: M.L.
checked: Ed
date: 5/22/97

PIER AMENITIES
FISHING PIER IMPROVEMENTS PLAN
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CA.
PROJECT NO. 695A CONTRACT NO. 16-97-69 OF: 16

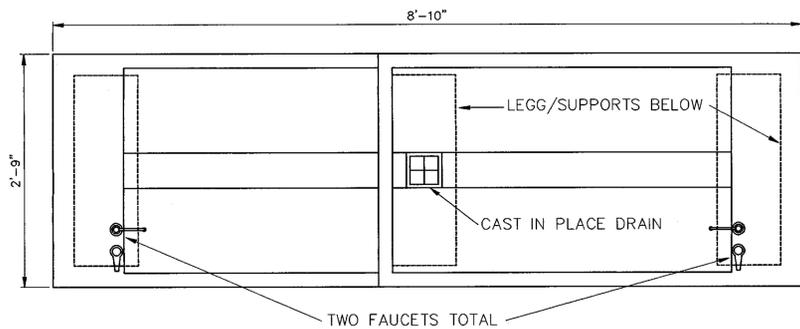
SHEET NO.
A3

DUMOR BENCH 95, COLOR BLACK, INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
BENCH AVAILABLE FROM:

ROSS RECREATION EQUIPMENT CO., INC.
555 FIFTH STREET, SUITE 210
SANTA ROSA, CA 95401
(707) 526-4800



BENCH
NOT TO SCALE

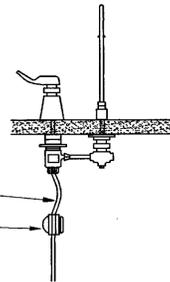


PLAN
SCALE 1" : 1'-0"

A
A4

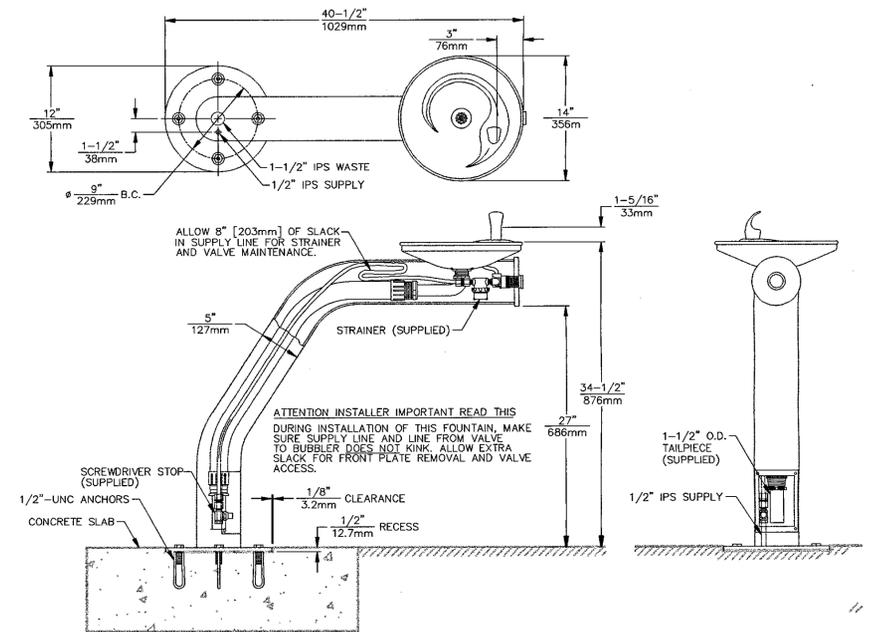
CHICAGO FAUCETS #786-E3-CW-336-408
CHROME PLATE FINISH FAUCET. INSTALLED PER
MFGR'S RECOMMENDATIONS, AVAILABLE FROM :

RV & ASSOCIATES
3200 BAY SHORE ROAD
BENICIA CA 94510
(707) 745-3655



BRAIDED STAINLESS STEEL HOSE
1/2" BRONZE BALL VALVE

FAUCET
NOT TO SCALE



HAWS DRINKING FOUNTAIN 3380, COLOR BLACK,
INSTALLED PER MFGR'S RECOMMENDATIONS, AVAILABLE FROM :

RV & ASSOCIATES
3200 BAY SHORE ROAD
BENICIA CA 94510
(707) 745-3655

DRINKING FOUNTAIN
NOT TO SCALE

B
A4

NOTE: PRECAST FISH CLEANING TABLE, LEGS, AND
ALL CONNECTING HARDWARE TO BE SUPPLIED AND
DELIVERED TO SITE BY E.B.R.P.D. CONTRACTOR TO
UNLOAD, PLACE, AND INSTALL TABLE AS SHOWN
ON THE DRAWINGS. CONTRACTOR TO SUPPLY AND
INSTALL GLOBE VALVE, VALVE BOX, ALL PIPES AND
PLUMBING COMPONENTS, INCLUDING FAUCETS,
AND 4" PVC DRAIN LINE AS SHOWN.

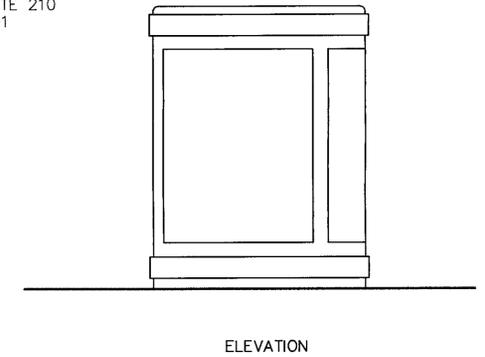
REMOVABLE PANNEL FOR
ACCESS TO PLUMBING AND
DRAIN LINE

STEEL CONNECTION PINS SUPPLIED BY EBRPD
TO BE EPOXYED IN PLACE BY CONTRACTOR
8 PINS PER LEG, (4 INTO DECK AND 4 INTO TABLE)

END ELEVATION
SCALE 1" : 1'-0"

DUMOR RECEPTACLE 89, COLOR BLACK, INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
SECURE TO PIER DECK WITH FOUR L-SHAPED CONCRETE ANCHORS, SUPPLIED
WITH RECEPTACLE. AVAILABLE FROM:

ROSS RECREATION EQUIPMENT CO., INC.
555 FIFTH STREET, SUITE 210
SANTA ROSA, CA 95401
(707) 526-4800



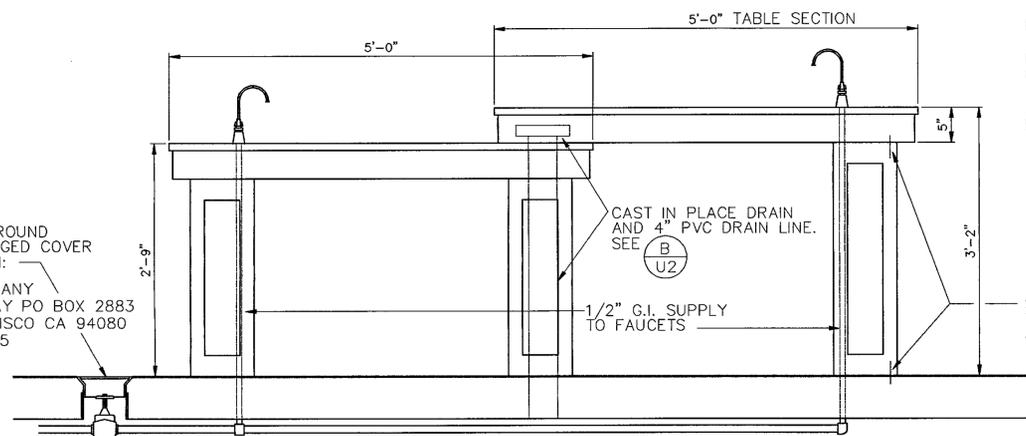
TRASH CAN
NOT TO SCALE

C
A4

ZURN-400-8D ROUND
STRAINER W/HINGED COVER
AVAILABLE FROM:

GLENDON COMPANY
280 WATTIS WAY PO BOX 2883
SO SAN FRANCISCO CA 94080
(415) 952-6565

1 1/4" GLOBE VALVE



SIDE ELEVATION
SCALE 1" : 1'-0"

FISH CLEANING TABLE
SCALE AS SHOWN

D
A4

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED

design: *[Signature]*

operations: *[Signature]*

scale: AS SHOWN

drawn: M.L.

checked: Ed

date: 5/22/97

DETAILS

FISHING PIER IMPROVEMENTS PLAN
ECKLEY

CARQUINEZ STRAIT REGIONAL SHORELINE

CONTRA COSTA COUNTY, CA.

PROJECT NO. 695A

CONTRACT NO. 16-97-69

SHEET NO.

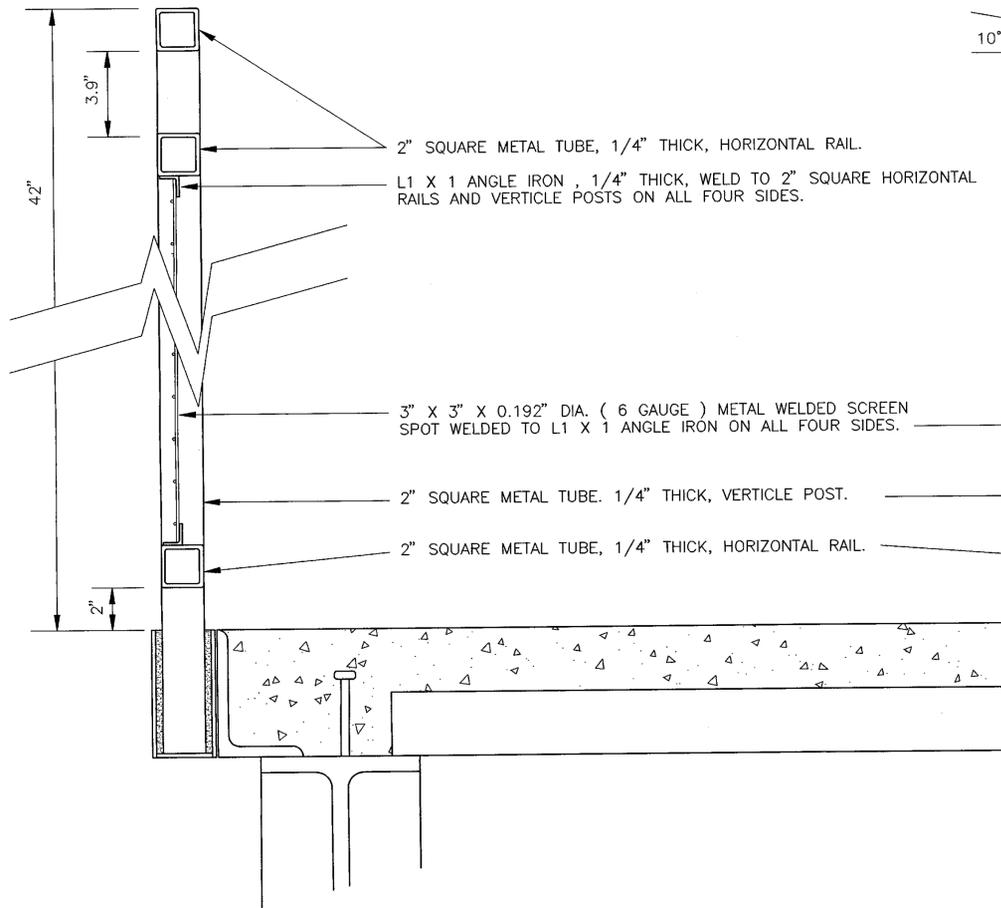
A4

OF: 16

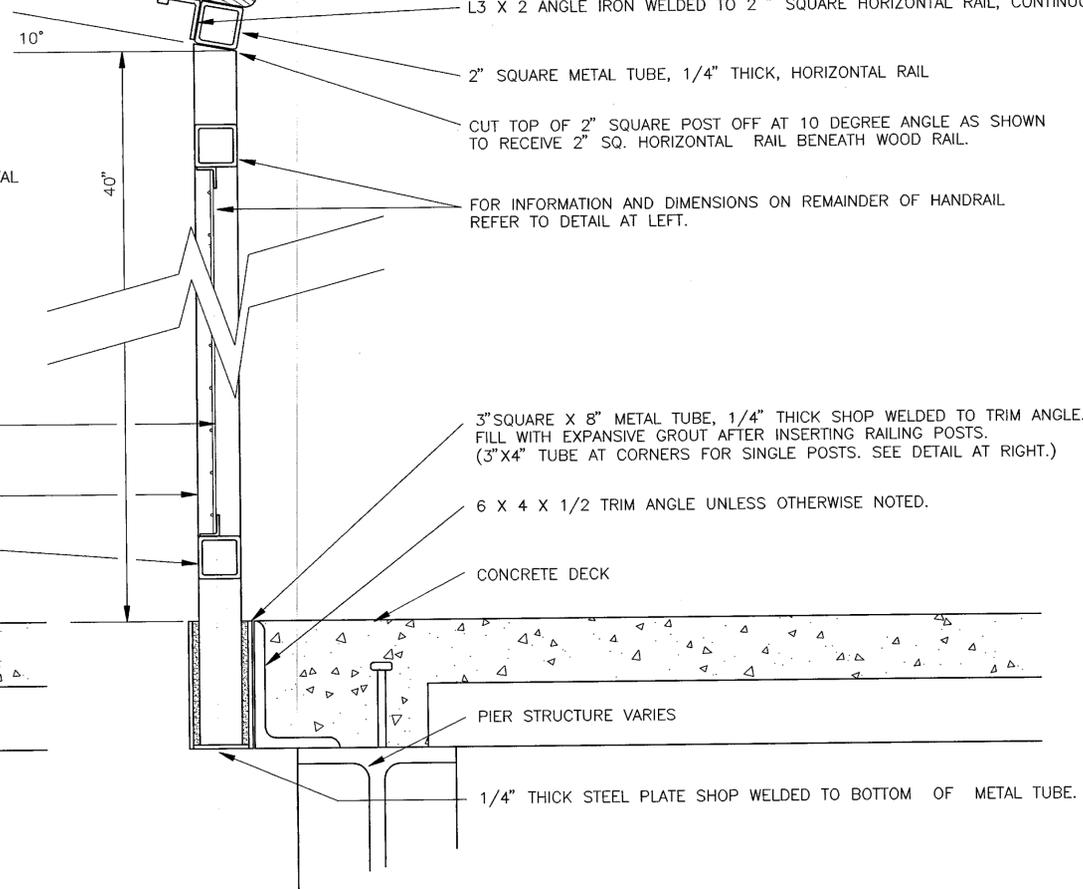
NOTE: HARDWOOD HANDRAIL TO BE FABRICATED FROM 2X6 KWILA S4S E4E.
HARDWOOD MAY BE AVAILABLE FROM:

ECOTIMBER
1020 HEINZ AVENUE
BERKELEY, CA 94710
(510) 549-3000

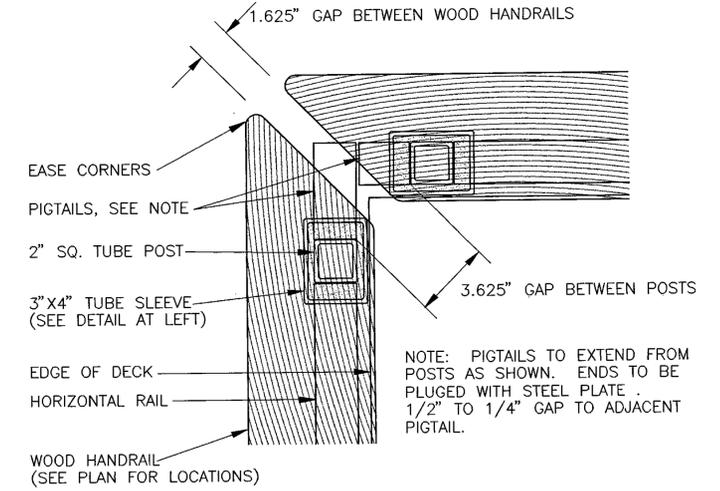
4" X 2" HARDWOOD HANDRAIL, SEE NOTE AT LEFT
SCREW THROUGH ANGLE IRON INTO HARDWOOD HANDRAIL.
SCREWS TO BE 12" O.C. MAX. AND ALTERNATE 1.5" IN ALIGNMENT
ALONG LENGTH OF ANGLE IRON. SCREWS TO BE #14X1" ONE WAY
ROUND HEAD ZINC PLATED. AVAILABLE FROM:
MUTUAL SCREW & SUPPLY
68 WEST PASSAIC STREET ROCHELLE PARK NJ 07662
800-222-0324



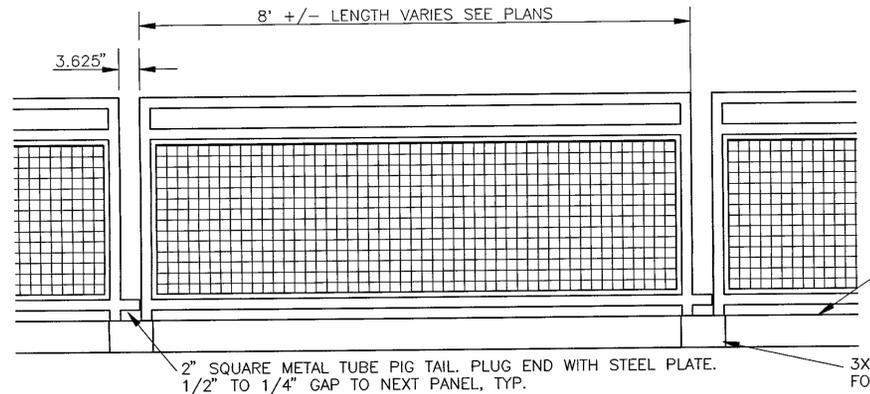
METAL ONLY GUARDRAIL CONDITION SECTION
SCALE 3" : 1'-0"



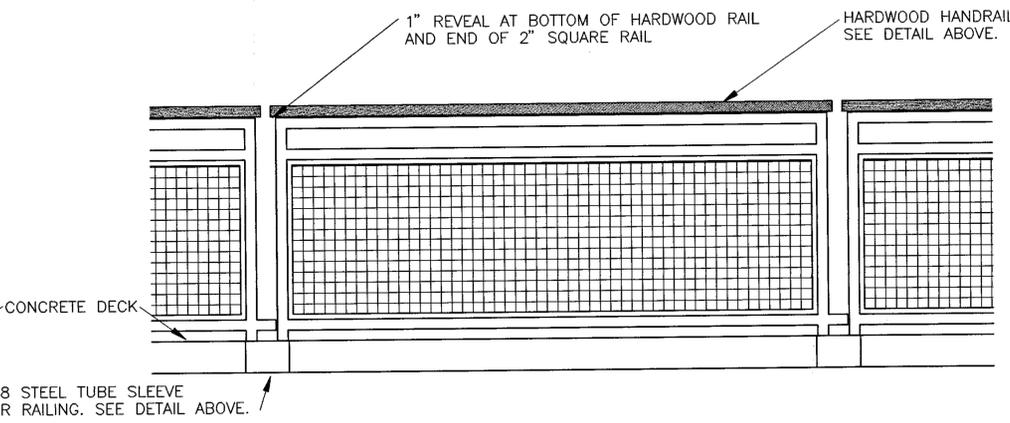
METAL - WOOD GUARDRAIL CONDITION SECTION
SCALE 3" : 1'-0"



CORNER CONDITION PLAN
SCALE 3" : 1'-0"



METAL ONLY GUARDRAIL CONDITION ELEVATION
SCALE 3/4" : 1'-0"



METAL - WOOD GUARDRAIL CONDITION ELEVATION
SCALE 3/4" : 1'-0"

NOTES:

- 1) AFTER FABRICATION ALL WELDS TO BE GROUND SMOOTH AND PANELS TO BE GALVANIZED.
- 2) CONTRACTOR TO SUPPLY SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
- 3) REFER TO PLANS FOR TOTAL LENGTH AND DIFFERENT HANDRAIL TYPE LOCATIONS.

A
A5

GUARDRAIL
SCALE AS SHOWN

RAILING DETAIL
FISHING PIER IMPROVEMENT PLANS

ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CA.
PROJECT NO. 695A CONTRACT NO. 15-96-69 OF: 16

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

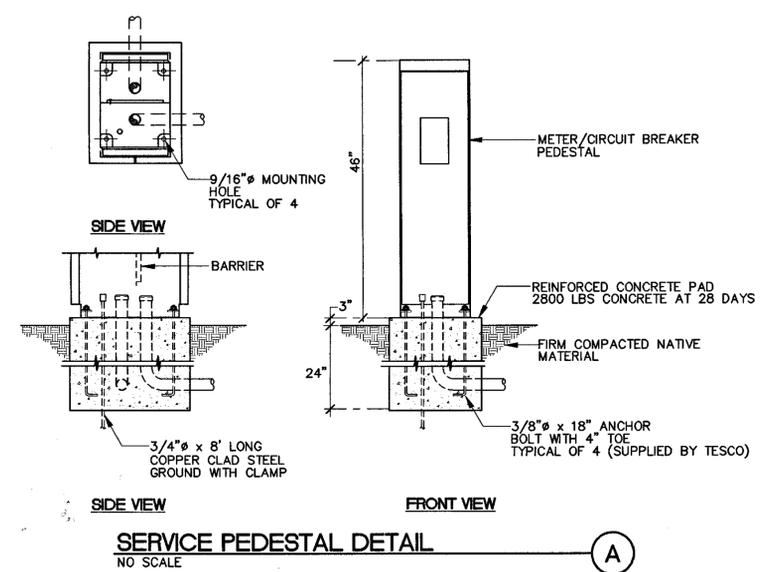
APPROVED

design: *[Signature]*
operations: *[Signature]*

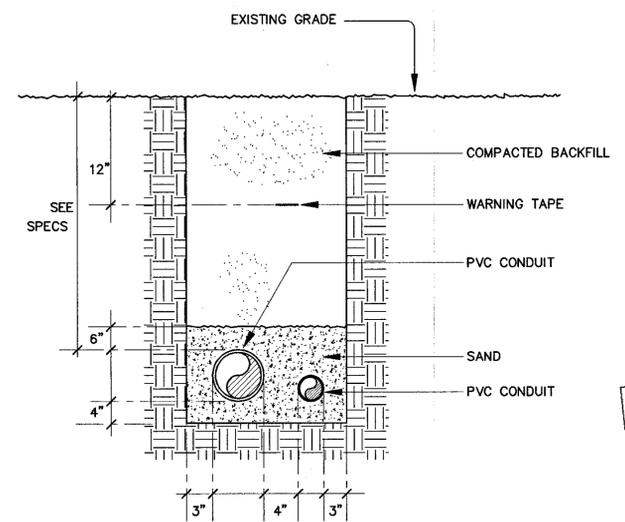
scale: AS SHOWN
drawn: M.L.
checked: *[Signature]*
date: 5/22/97

SYMBOLS AND ABBREVIATIONS

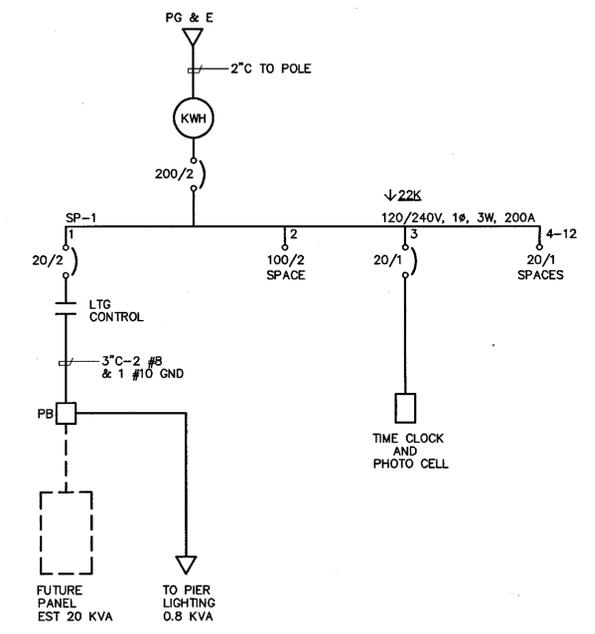
- ⊗ (E) POWER POLE
- (E) OVERHEAD LINES
- UNDERGROUND CONDUIT RUN
- CONDUIT STUB-OUT
- PB PULLBOX
- ⊙ (KWH) KILOWATT-HOUR METER
- ⊕ CIRCUIT BREAKER
- ⊓ SHORT CIRCUIT RATING OF EQUIPMENT. (22,000 AMPS SYMMETRICAL).
- (E) EXISTING
- GND GROUND
- PB PULLBOX.



SERVICE PEDESTAL DETAIL
NO SCALE (A)



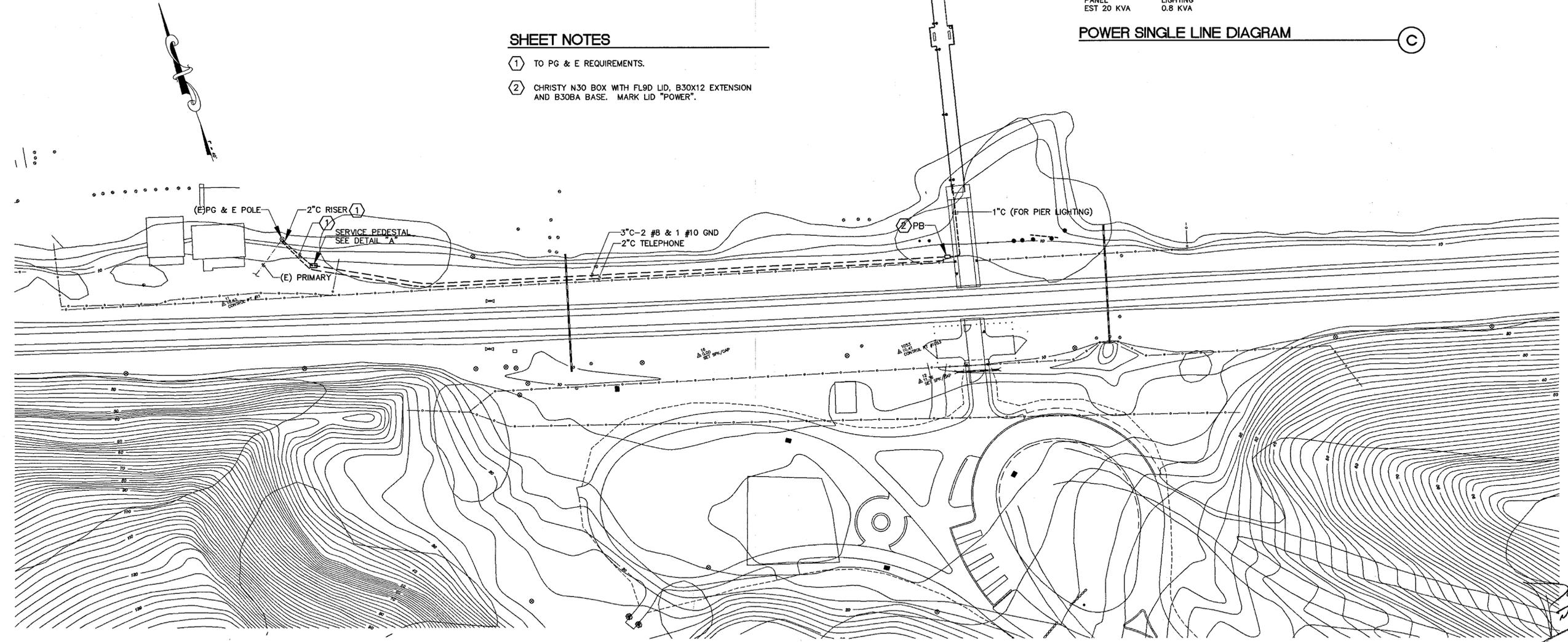
ELECTRICAL TRENCH DUCT DETAIL
NO SCALE (B)



POWER SINGLE LINE DIAGRAM (C)

SHEET NOTES

- ① TO PG & E REQUIREMENTS.
- ② CHRISTY N30 BOX WITH FL9D LID, B30X12 EXTENSION AND B30BA BASE. MARK LID "POWER".



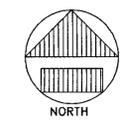
REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: *[Signature]*
operations: *[Signature]*

scale: 1:40
drawn: BJ
checked: PW
date: 05-22-97



FISHING PIER IMPROVEMENT PLAN
ELECTRICAL/TELEPHONE
ECKLEY
CARQUINEZ STRAIT REGIONAL PARK
CONTRA COSTA COUNTY, CALIFORNIA

SHEET NO. **E1**
OF: 16
NO.:



C:\CAD\9605

GENERAL NOTES

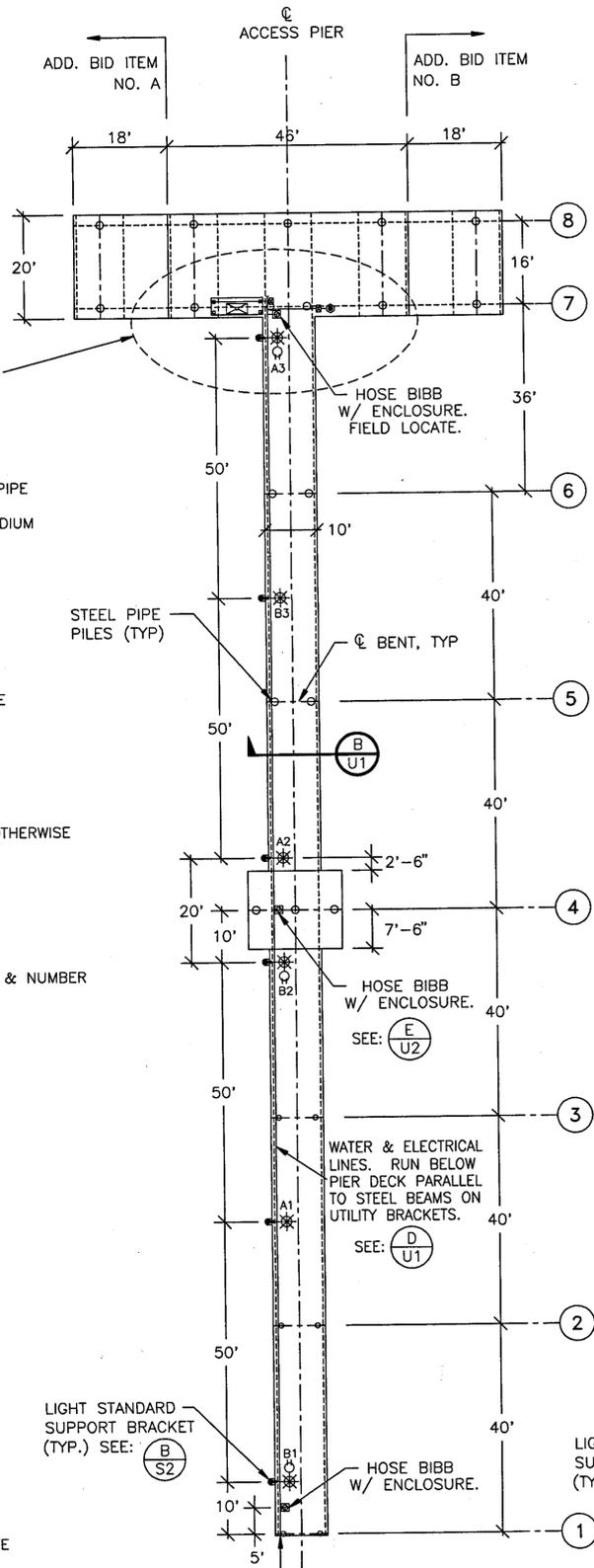
1. LOCATION OF UTILITY LINES IS SCHEMATIC. ACTUAL LOCATION SHALL BE DETERMINED IN FIELD.
2. UTILITY LINES SHALL BE INSTALLED WITH EXPANSION/CONTRACTION FITTINGS AND JUNCTION/SPLICE BOXES AS NECESSARY.
3. SEE SHEET A3 FOR DETAILS OF FISH CLEANING STATION, WATER FOUNTAIN, AND HOSE BIBBS.

ABBREVIATIONS

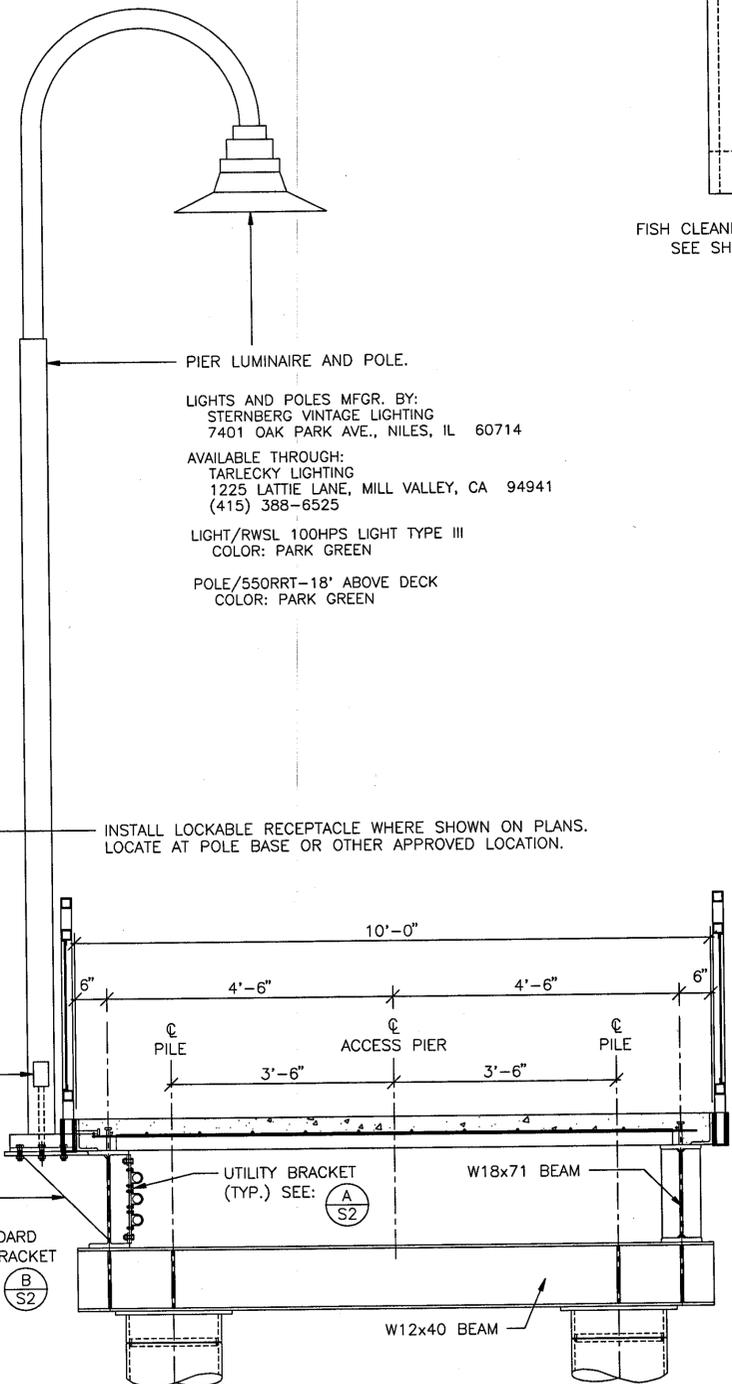
- GSP - GALVANIZED STEEL PIPE
- HPS - HIGH PRESSURE SODIUM
- LB - ELBOW
- MAX. - MAXIMUM
- MIN. - MINIMUM
- O.C. - ON CENTER
- PVC - POLYVINYL CHLORIDE
- SS - STAINLESS STEEL
- TELE. - TELEPHONE
- TYP. - TYPICAL
- U.N.O. - UNLESS NOTED OTHERWISE
- W - WATTS

LEGEND

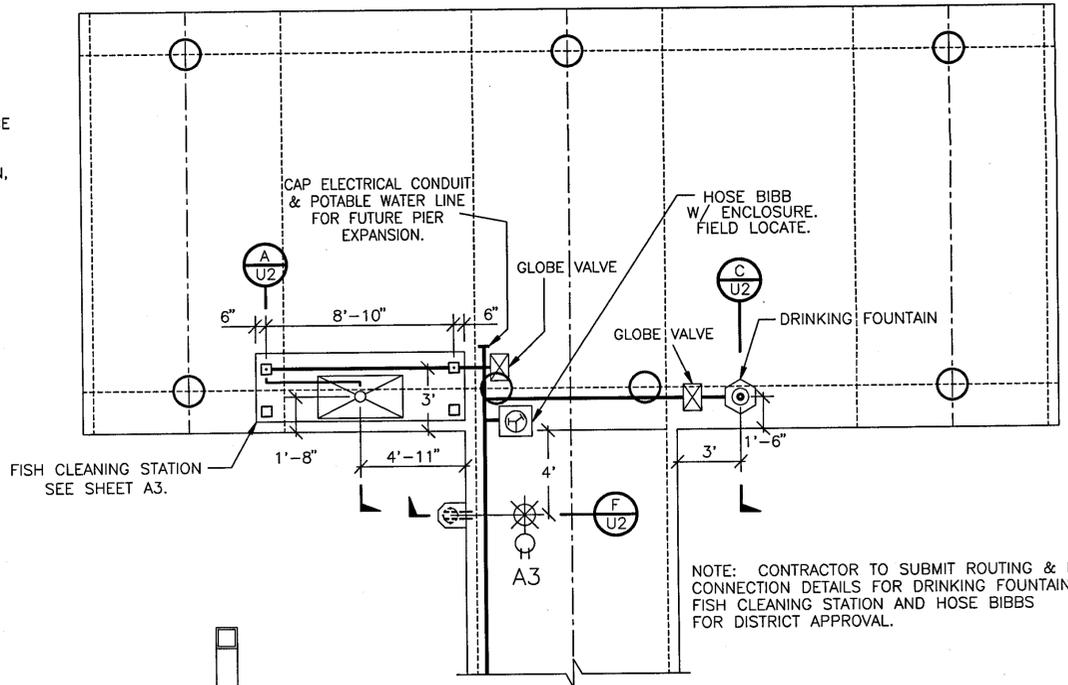
- ⊛ LUMINAIRE w/ CIRCUIT & NUMBER
- ⊕ 20A RECEPTACLE
- ⊞ HOSE BIBB
- W POTABLE WATER
- W WATER
- P POWER
- ⊞ GLOBE VALVE



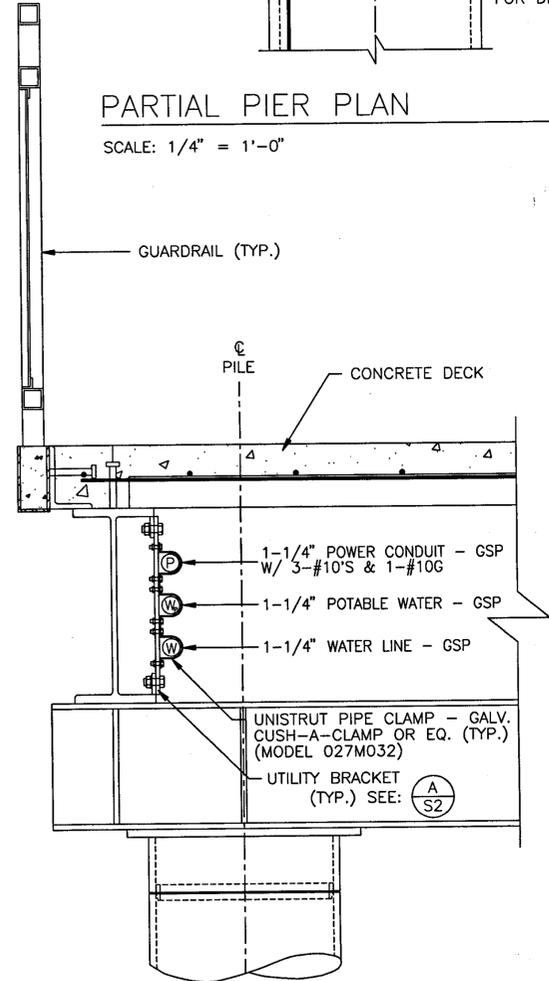
UTILITY PLAN - BASE BID PLUS
ADD. BID ITEMS NO. A & NO. B.
SCALE: 1/16" = 1'-0"



TYPICAL ACCESS PIER SECTION
SCALE: 3/4" = 1'-0"



PARTIAL PIER PLAN
SCALE: 1/4" = 1'-0"



PARTIAL PIER SECTION
SCALE: 1/8" = 1'

C:\PROJECTS\ECKLEY_U1

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: [Signature]
operations: [Signature]

scale: AS SHOWN
drawn: CIR
checked: CIR
date: 5/22/97

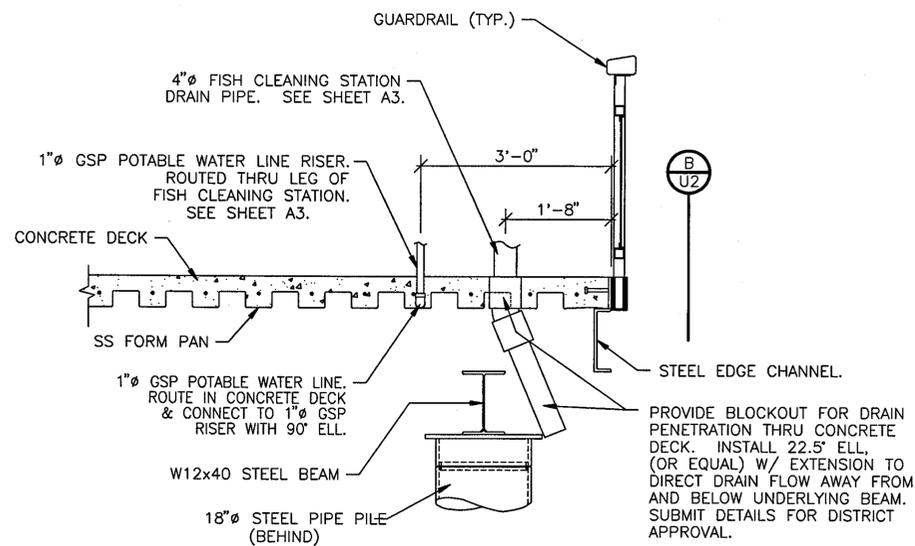


UTILITY PLAN
FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NO. 065A CONTRACT NO. 10-97-99



PROJECT ENGINEER:
CHARLES I. RAU
Consulting Engineers 1606 Ortega Drive, Martinez, CA 94553 (510)225-9837

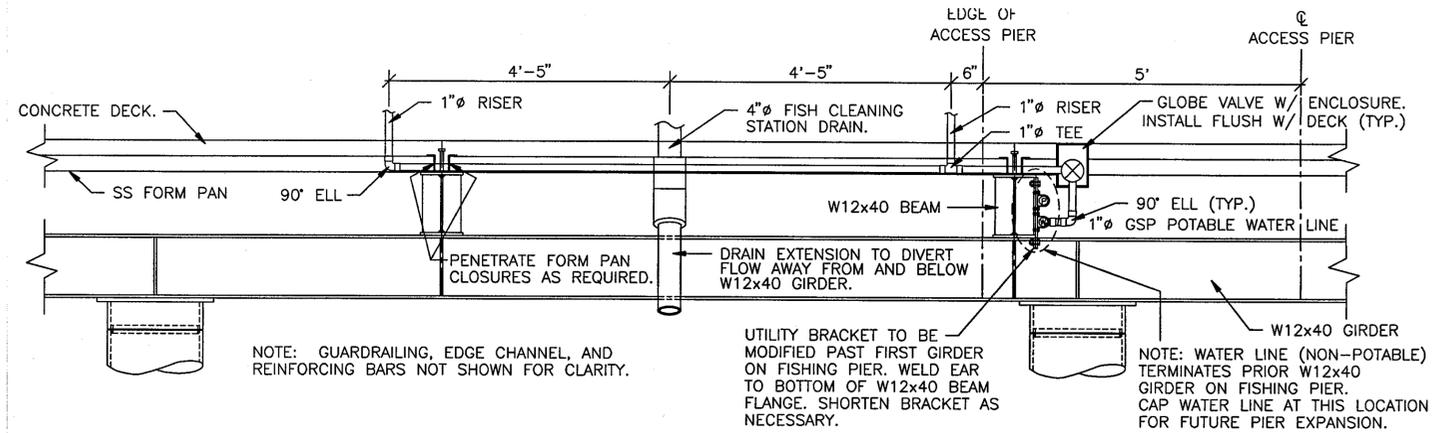
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U1
OF: 16
NO: 1



FISH CLEANING STATION
WATER & DRAIN ROUTING DETAILS

SCALE: 3/4" = 1'-0"

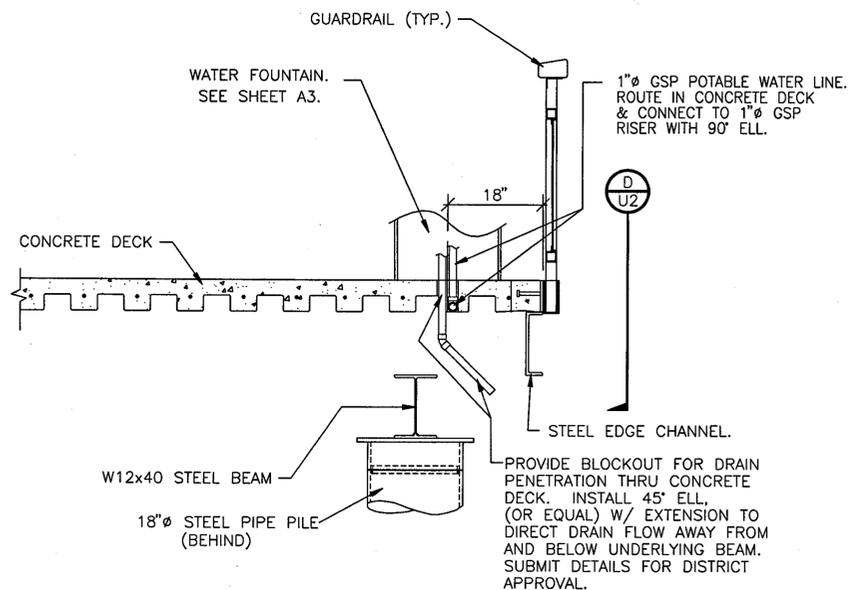
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FISH CLEANING STATION
WATER & DRAIN ROUTING DETAILS

SCALE: 3/4" = 1'-0"

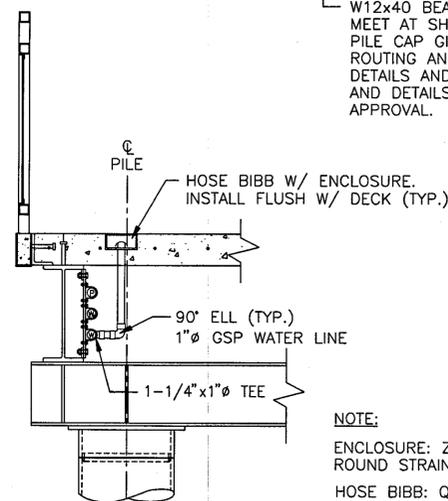
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DRINKING FOUNTAIN
WATER & DRAIN ROUTING DETAILS

SCALE: 3/4" = 1'-0"

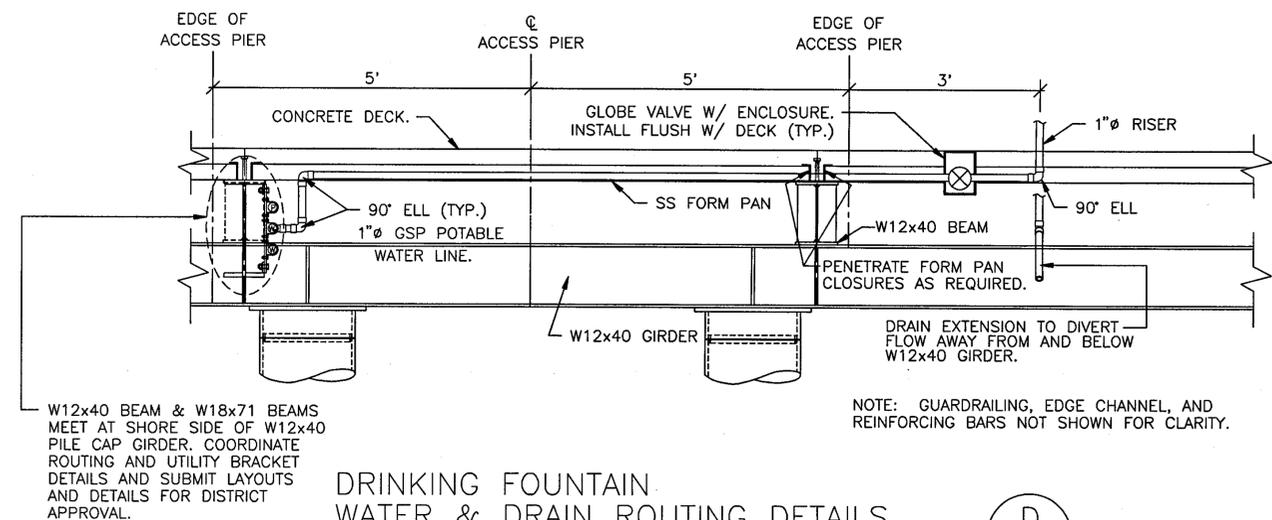
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U2



HOSE BIBB ROUTING DETAILS

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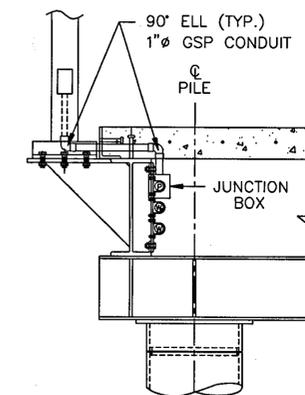
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U2



DRINKING FOUNTAIN
WATER & DRAIN ROUTING DETAILS

SCALE: 3/4" = 1'-0"

D
U2



LUMINAIRE ROUTING DETAILS

SCALE: 3/4" = 1'-0"

F
U2



C:\PROJECTS\ECKLEY\U2

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED

design: *al*

operations: *Ray Lawson*

scale: AS SHOWN

drawn: CIR

checked: CIR

date: 5/22/97



UTILITY DETAILS
FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NO. 005A CONTRACT NO. 10-97-09

SHEET NO.

U2

OF: 16

NO: 11

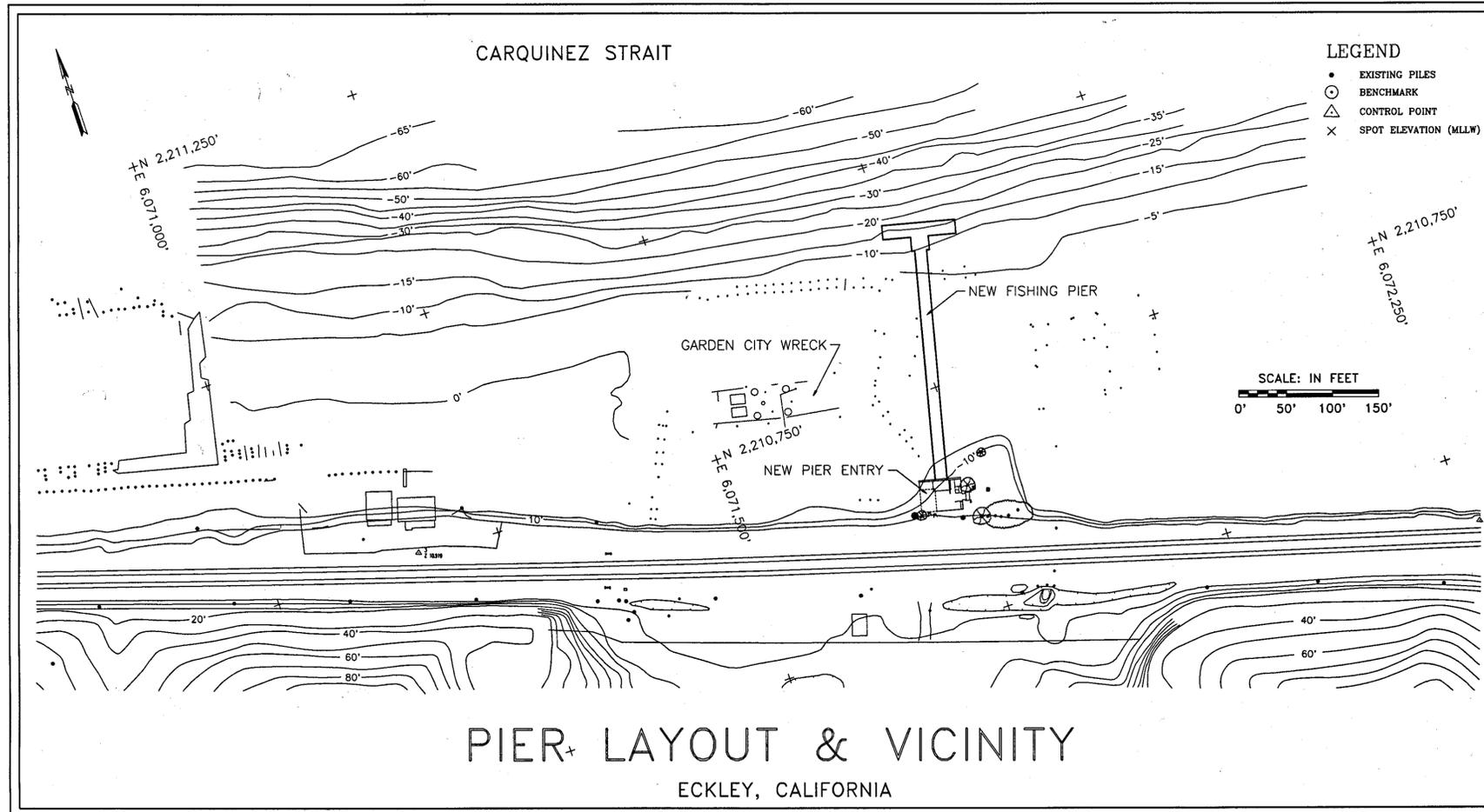
PROJECT ENGINEER:
CHARLES I. RAU
Consulting Engineers 1505 Ortega Drive, Martinez, CA 94553 (510)229-9637

FISHING PIER IMPROVEMENT PLANS

CARQUINEZ STRAIT REGIONAL SHORELINE

SHEET INDEX

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- P5: PIER PROFILE & LONGITUDINAL CROSS SECTION
- P6: SECTIONS & DETAILS: PILE BENTS, PLANKS, & DECK
- P7: SECTIONS & DETAILS: CAP BEAMS
- P8: ABUTMENT PLAN & DETAILS, & WINGWALL DETAILS
- P9: HANDRAIL
- P10: DETAILS: PIER AMENITIES
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- P17: EVAPORATIVE TOILET STRUCTURE
- P18: UTILITY PLAN
- P19: UTILITY DETAILS



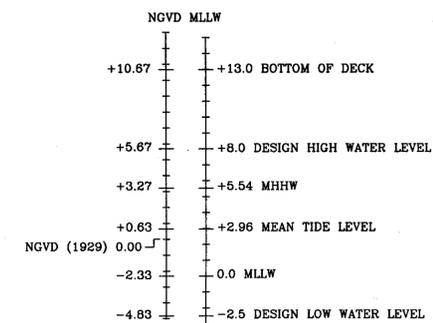
ABBREVIATIONS

BMK - Benchmark
 CP - Control Point
 CSPCS - CALIFORNIA STATE PLANE COORDINATE SYSTEM
 MHHW - Mean Higher High Water
 MLLW - Mean Lower Low Water
 NGVD - National Geodetic Vertical Datum
 (See Sheets P3, and P18 for additional abbreviations)

GENERAL NOTES

1. Existing topography and site features are based on an aerial topographic survey performed by Hammon, Jensen, Wallen & Associates, Oakland, CA, referenced to State Plane Coordinate System NAD 1983, Zone 3. Vertical and horizontal control points were provided by Tucker & Associates, Calistoga, CA. Onshore elevations and contours are in feet and referenced to MEAN LOWER LOW WATER (MLLW).
2. Bathymetric contours are from a survey by Sea Surveyor Inc., Benicia, CA, conducted on December 15, 1994. Contours and spot elevations are in feet and referenced to MLLW.
3. Contractor shall call USA Underground Service Alert at (800) 642-2444 not less than 2 working days prior to commencing any excavation on the project.

APN: 354-030-010
 ZI: 957222



DATUM REFERENCES
 (ECKLEY SITE)



REVISIONS



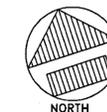
EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED

design: *al*

operations: *Ray Johnson*

scale: AS SHOWN
 drawn: CIR
 checked: JAM
 date: 03/30/96



TITLE SHEET
 FISHING PIER IMPROVEMENT PLANS
 ECKLEY
 CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CALIFORNIA
 PROJECT NO. 0054-2 CONTRACT NO. 05-98-06

SHEET NO.
 P1
 OF: 64
 NO:

C:\PROJECTS\ECKLEY\TITLE.DWG

IN ASSOCIATION WITH:



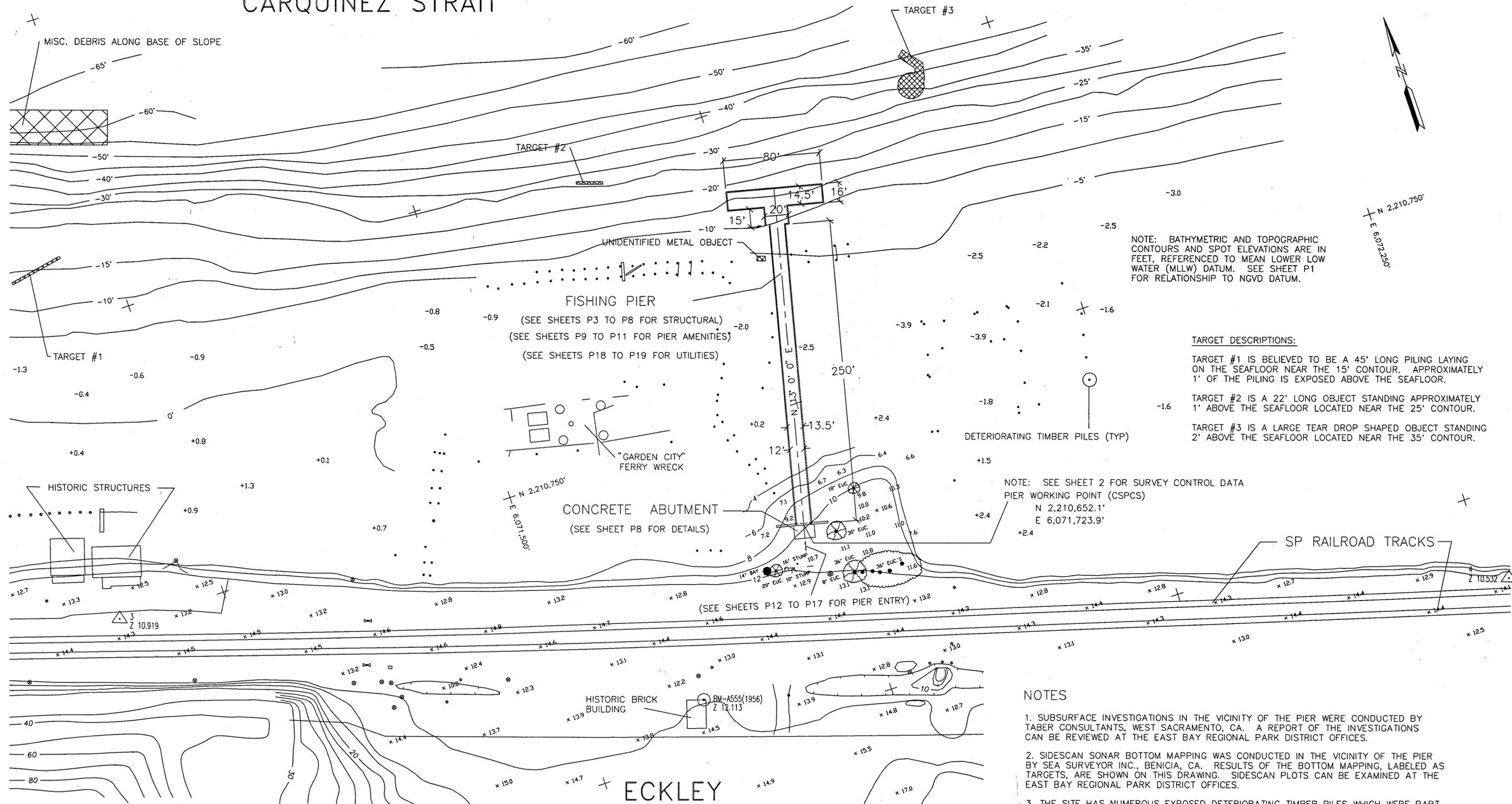
PROJECT ENGINEER:
 CHARLES I. RAU
 Consulting Engineers 1505 Ortega Drive, Martinez, CA 94553 (510)229-9637

WEST-MILLER ENGINEERING
 Civil and Structural Engineering
 224 Walnut Ave. Santa Cruz, CA 95060 408-428-3188

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 1000 Redwood Avenue, Redwood City, CA 94063 (415) 338-2025

TABER CONSULTANTS
 ENGINEERS and GEOLOGISTS
 536 CALVESTON STREET
 OAKLAND, CA 94612 (415) 371-1800

CARQUINEZ STRAIT



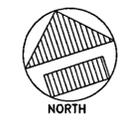
- LEGEND**
- EXISTING PILES
 - ⊙ BENCHMARK
 - △ CONTROL POINT
 - × SPOT ELEVATION (MLLW)

- NOTES**
1. SUBSURFACE INVESTIGATIONS IN THE VICINITY OF THE PIER WERE CONDUCTED BY TABER CONSULTANTS, WEST SACRAMENTO, CA. A REPORT OF THE INVESTIGATIONS CAN BE REVIEWED AT THE EAST BAY REGIONAL PARK DISTRICT OFFICES.
 2. SIDESCAN SONAR BOTTOM MAPPING WAS CONDUCTED IN THE VICINITY OF THE PIER BY SEA SURVEYOR INC., BENICIA, CA. RESULTS OF THE BOTTOM MAPPING, LABELED AS TARGETS, ARE SHOWN ON THIS DRAWING. SIDESCAN PLOTS CAN BE EXAMINED AT THE EAST BAY REGIONAL PARK DISTRICT OFFICES.
 3. THE SITE HAS NUMEROUS EXPOSED DETERIORATING TIMBER PILES WHICH WERE PART OF PREVIOUS PIER AND MOORING STRUCTURES. THE PROBABILITY OF ADDITIONAL PILES AND OBSTRUCTIONS ASSOCIATED WITH THE HISTORIC MARITIME USE OF THE SITE EXISTS.
 4. REMOVAL OF EXISTING PILES DURING CONSTRUCTION SHALL BE MINIMIZED. CONTRACTOR SHALL SUBMIT A PLAN SHOWING WHICH PILES ARE PLANNED TO BE REMOVED PRIOR TO MOVING ANY EQUIPMENT ON SITE.
 5. RIPRAP (STONE, CONCRETE & BRICK) EXTENDS ALONG THE SHORELINE FROM TOP OF BANK TO LOW WATER. THICKNESS AND EXTENT OF RIPRAP IS NOT ACCURATELY KNOWN.



APPROVED
design: *[Signature]*
operations: *[Signature]*

scale: 1"=40'
drawn: CIR
checked: JAM
date: 03/30/96



DEMOLITION AND SITE PLAN
FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NO. 8954-2 CONTRACT NO. 05-96-99

EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

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 IN ASSOCIATION WITH:

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REVISIONS

SHEET NO.
P2
OF: 64
NO:

STRUCTURAL ABBREVIATIONS

AB	Anchor Bolt
ACI	American Concrete Institute
AISC	American Institute of Steel Construction
ALT	Alternate
APPROX	Approximately
ASTM	American Society for Testing & Materials
AVG	Average
BM	Beam
BOT	Bottom
BRC	Brace
BRG	Bearing
BTWN	Between
BVL	Bevel
C	Channel
CANT	Cantilever
CC	Center to Center
CJ	Construction joint or Contraction joint
CL or ☉	Center Line
CIP	Cast In Place
CLR	Clear, Clearance
COMP PEN	Complete penetration
CONC	Concrete
CONN	Connection
CONT	Continuous
CSK	Countersink
CTR	Center
CVR	Cover
DBL	Double
DEG	Degree
DIA	Diameter
DIAG	Diagonal
DIM	Dimension
DL	Dead Load
DN	Down
DTL	Detail
DWG	Drawing
EA	Each
EB	Expansion Bolt
EF	Each face
EJ	Expansion joint
ELEV/EL	Elevation
ENGR	Engineer
ES	Each side
EW	Each way
EX	Existing
EXT	Exterior
FB	Flat bar
FG	Finish grade
FIN	Finish
FLD	Field
FLR	Floor
FND	Foundation
FOC	Face of concrete
FOS	Face of steel/stud
FRMG	Framing
FT	Foot or Feet
FTG	Footing
GA	Gauge
GALV	Galvanized
HORIZ	Horizontal
HT	Height
ID	Inside Diameter
IN	Inch
INT	Interior
IR	Inside radius
JT	Joint
L	Angle
LB	Pound
LD	Load
LL	Live load
LWT	Light weight
MAX	Maximum
MB	Machine Bolt
MECH	Mechanical
MISC	Miscellaneous
MIN	Minimum
MTL	Metal
N.T.S.	Not to Scale
OC	On center
OCBW	On center both ways
OD	Outside Diameter
OH	Other hand
OPP	Opposite
PL	Plate
PRCST	Precast
PREFAB	Prefabricated
PSF	Pounds per Square Foot
PSI	Pounds per Square Inch
R	Radius
RC	Relative Compaction
REINF	Reinforcement
REM	Removal
REPL	Replace
REQD	Required
RET	Retaining
RWALL	Retaining Wall
SCH	Schedule
SECT	Section
SF	Square foot
SIM	Similar
SM	Sheet metal
SPEC	Specifications
SQR	Square
STD	Standard
STL	Steel
STRUCT	Structural
T&B	Top and Bottom
TOC	Top of concrete
TOS	Top of steel
TOW	Top of wall
TS	Structural steel tube
TYP	Typical
UBC	Uniform Building Code
UNO	Unless noted otherwise
VERT	Vertical
VIF	Verify
W	Wide flange steel beam
W/	With
W/O	Without
WP	Work point
WWF	Welded Wire Fabric

GENERAL STRUCTURAL NOTES :

- THE CONTRACTOR SHALL EXAMINE CAREFULLY THE SITE OF WORK CONTEMPLATED, THE PLANS AND SPECIFICATIONS THEREFORE. THE SUBMISSION OF A BID SHALL BE CONCLUSIVE EVIDENCE THAT THE CONTRACTOR HAS INVESTIGATED AND IS SATISFIED AS TO THE CONDITIONS TO BE ENCOUNTERED, AS TO THE CHARACTER, QUALITY AND SCOPE OF WORK TO BE PERFORMED, THE QUANTITIES OF MATERIALS TO BE FURNISHED AND AS TO THE REQUIREMENTS OF THE PLANS AND THESE SPECIFICATIONS.
- THE JOB SITE SHALL BE MAINTAINED IN A CLEAN, ORDERLY CONDITION FREE OF DEBRIS AND LITTER. SHALL NOT BE UNREASONABLY ENCUMBERED WITH ANY MATERIALS OR EQUIPMENT AND SHALL BE CLEANED AT THE END OF EACH WORKING DAY.
- CONSTRUCTION AND MATERIALS SHALL BE AS SPECIFIED AND AS REQUIRED BY THE 1994 EDITION OF THE UNIFORM BUILDING CODE, THE UNIFORM BUILDING CODE STANDARDS, LOCALLY ENFORCED CODES AND AUTHORITIES. ALL ARTICLES, MATERIALS AND EQUIPMENT SHALL BE INSTALLED, APPLIED, CONNECTED AS DIRECTED BY THE MANUFACTURER'S LATEST WRITTEN SPECIFICATIONS EXCEPT WHERE OTHERWISE NOTED. MATERIAL NOTES ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE SPECIFICATIONS.
- IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN, THEIR CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR FEATURES. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON THE PLANS.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, FORMWORK, ETC., AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION.
- THE CONTRACTOR SHALL EXAMINE AND CHECK ALL EXISTING CONDITIONS, DIMENSIONS, LEVELS AND MATERIALS AND NOTIFY THE DISTRICT INSPECTOR OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK. SHOULD A DISCREPANCY APPEAR IN THE SPECIFICATIONS OR DRAWINGS, OR IN THE WORK DONE BY OTHERS FROM THE CONTRACT DOCUMENTS THAT AFFECT ANY WORK, NOTIFY THE DISTRICT INSPECTOR AT ONCE FOR INSTRUCTION ON HOW TO PROCEED. IF THE CONTRACTOR PROCEEDS WITH THE WORK AFFECTED WITHOUT INSTRUCTIONS FROM THE DISTRICT INSPECTOR, THE CONTRACTOR SHALL MAKE GOOD ANY RESULTING DAMAGE OR DEFECT TO THE SATISFACTION OF THE DISTRICT INSPECTOR. SHOULD A CONFLICT OCCUR IN OR BETWEEN DRAWINGS AND SPECIFICATIONS, OR WHERE DETAIL REFERENCES ON CONTRACT DRAWINGS HAVE BEEN OMITTED, THE CONTRACTOR IS DEEMED TO HAVE ESTIMATED THE MOST EXPENSIVE MATERIALS AND CONSTRUCTION METHOD INVOLVED, UNLESS A WRITTEN DECISION OF THE DISTRICT INSPECTOR HAS BEEN OBTAINED WHICH DESCRIBES AN ALTERNATE METHOD AND/OR MATERIALS.
- MATERIAL STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED TO PREVENT DAMAGE AND DETERIORATION UNTIL USE. FAILURE TO PROTECT MATERIALS MAY BE CAUSE FOR REJECTION OF WORK.
- THE CONTRACTOR SHALL NOT ENDANGER ANY OTHER WORK BY CUTTING, OR OTHERWISE ALTERING THE TOTAL WORK OR ANY PART OF IT. CONTRACTOR SHALL EXERCISE CARE TO PROTECT ANY EXISTING CONSTRUCTION SO THAT INTEGRITY AND FINISH ARE NOT IMPAIRED. ALL PATCHING, REPAIRING AND REPLACING OF MATERIALS AND SURFACES, CUT OR DAMAGED IN EXECUTION OF WORK, SHALL BE DONE WITH APPROPRIATE MATERIALS SO THE SURFACES REPLACED WILL, UPON COMPLETION MATCH SURROUNDING SIMILAR SURFACES.
- THESE STRUCTURAL DRAWINGS AND THEIR DETAILS, DIMENSIONS, ETC. SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR WITH THE OTHER DRAWINGS FOR THIS PROJECT. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DISTRICT INSPECTOR FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
- SEE GEOTECHNICAL ENGINEER'S REPORT OF SOIL INVESTIGATION FOR EXISTING SOIL CONDITIONS AND INFORMATION AT THE SITE, AND DIVISION P15 AND RELATED DIVISIONS OF THE SPECIFICATIONS FOR EARTHWORK REQUIREMENTS AT THE ABUTMENT.
- BACKFILL SHALL NOT BE PLACED BEHIND ABUTMENT WALLS UNTIL THE CONCRETE HAS DEVELOPED AT LEAST 80% OF ITS 28 DAY SPECIFIED COMPRESSIVE DESIGN STRENGTH. PERMEABLE MATERIALS PLACED BEHIND THE ABUTMENT WALL SHALL BE OF THE TYPE SPECIFIED.

**STRUCTURAL DRAWINGS
SHEET INDEX**

- P3..... STRUCTURAL NOTES & ABBREVIATIONS AND GENERAL SPECS
- P4..... DECK PLAN & PILE LAYOUT
- P5..... PIER PROFILE & LONGITUDINAL CROSS SECTION
- P6..... SECTIONS & DETAILS: PILE BENTS, PLANKS & DECK
- P7..... CAP BEAMS: SECTIONS & DETAILS
- P8..... ABUTMENT PLAN & SECTIONS, WINGWALL DETAILS

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SHEET NO.
P-3
OF: 64
NO:



STRUCTURAL NOTES AND GENERAL SPECS
FISHING PIER IMPROVEMENT PLANS

ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA

PROJECT NO. 8894-2 CONTRACT NO. 05-00-00

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checked: JOK
date: 03/01/96

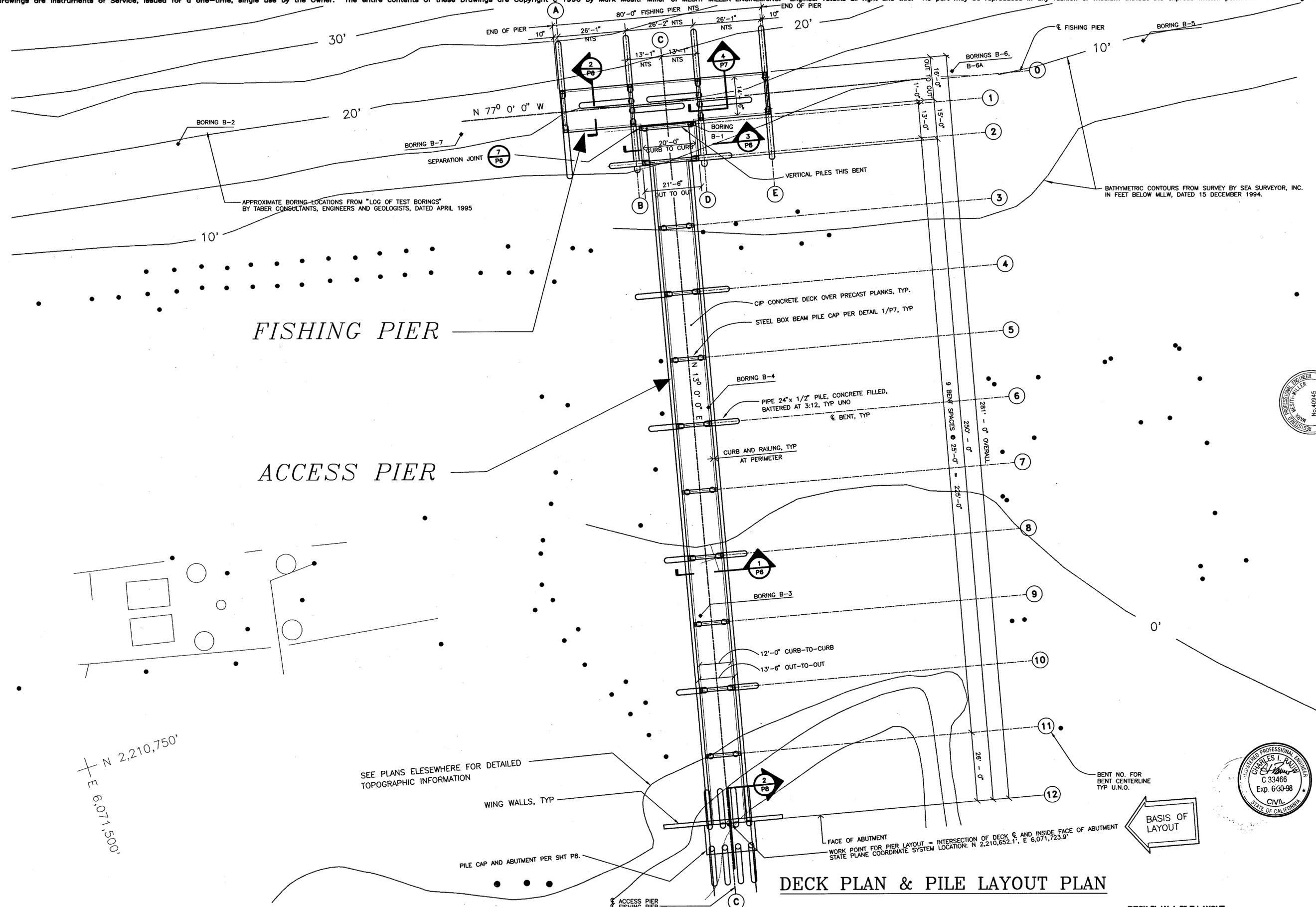
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operations: Ray Dawson



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

REVISIONS

NAME GAO FILE: E:\M181\1



N 2,210,750'
E 6,071,500'

ME CAD FILE NO: E1/4181/2

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: *al*
operations: *Ray Dawson*

scale: 1/16" = 1'-0"
drawn: CIR/JOK
checked: JOK
date: 11/17/95



DECK PLAN + PILE LAYOUT
FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NO. 0894-2 CONTRACT NO. 05-99-89

SHEET NO.
P-4
OF: 64
NO:



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(916) 282-2600

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536 GALVESTON STREET
WEST SACRAMENTO, CA 95691
(916) 371-1690

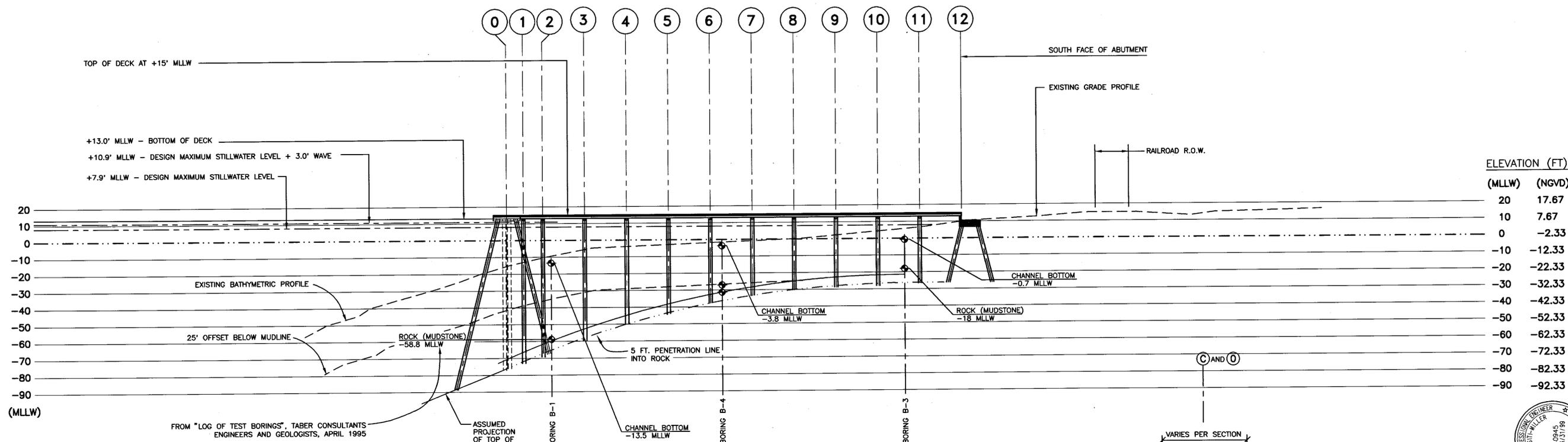
QUADRATICS
ENGINEERING & COMPUTER AIDED DESIGN
2010 90th Street, Sacramento, CA 95823
(916) 482-2000

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224 Walnut Ave. Santa Cruz, CA 95060 408 428 3168
Apr 01, 1998 - 10/20/24

IN ASSOCIATION WITH:
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REGISTERED PROFESSIONAL ENGINEER
CHARLES I. RAUW
C 33466
Exp. 6-30-98
CIVIL
STATE OF CALIFORNIA

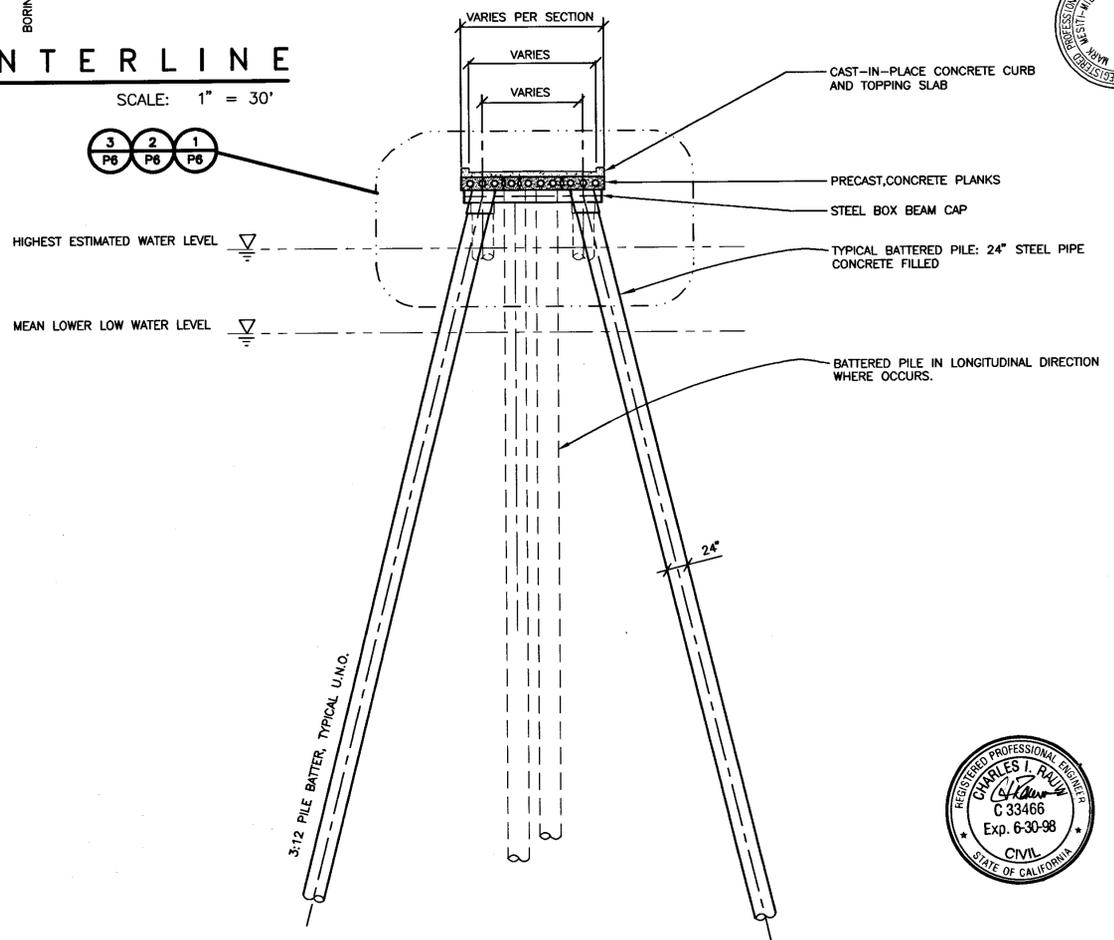
SHEET NO.
P-5
OF: 64
NO:



PIER PROFILE at LINE C CENTERLINE

SCALE: 1" = 30'

3 P6, 2 P6, 1 P6



TYPICAL PIER BENT

SCALE: 1/4" = 1'-0"

PILE TIP ELEVATION SCHEDULE		
BENT NO.	PILE NO.	*ESTIMATED PILE TIP ELEVATION (MLLW)
A	A-NORTH	-89
	A-SOUTH	-68
B	B-NORTH	-89
	B-SOUTH	-68
	B-EAST	-77
	B-WEST	-77
D	D-NORTH	-89
	D-SOUTH	-68
	D-EAST	-77
	D-WEST	-77
E	E-NORTH	-89
	E-SOUTH	-68
1	1-EAST	-73
	1-WEST	-73
2	2-EAST	-69
	2-WEST	-69
3	3-EAST	-60
	3-WEST	-60
4	4-EAST	-50
	4-WEST	-50
5	5-EAST	-44
	5-WEST	-44
6	6-EAST	-39
	6-WEST	-39
7	7-EAST	-34
	7-WEST	-34
8	8-EAST	-31
	8-WEST	-31
9	9-EAST	-29
	9-WEST	-29
10	10-EAST	-28
	10-WEST	-28
11	11-EAST	-27
	11-WEST	-27
12	12-EAST	-27
	12-WEST	-27

* PILE TIP ELEVATIONS WERE ESTIMATED FROM A LIMITED SUBSURFACE GEOTECHNICAL INVESTIGATION (REF. 'SUBSURFACE INVESTIGATION FOR PUBLIC ACCESS AND FISHING PIER, CARQUINEZ STRAIT REGIONAL SHORELINE, ECKLEY, CA.', BY TABER CONSULTANTS, DATED 31 AUGUST, 1995). ACTUAL PILE TIP ELEVATIONS REQUIRED TO OBTAIN FULL DESIGN BEARING CAPACITY WILL BE DETERMINED IN THE FIELD DURING PILE DRIVING OPERATIONS BY THE ENGINEER.

NAME CAD FILE NO. EA\84181\3

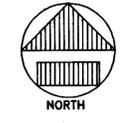
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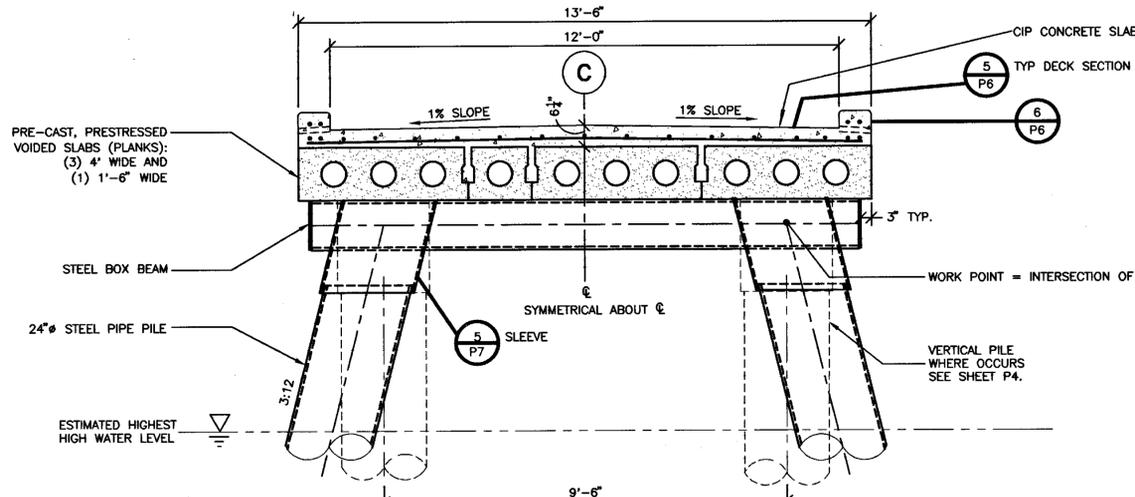
EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: [Signature]
operations: [Signature]

scale: AS SHOWN
drawn: CIR/JOK
checked: JOK
date: 04/05/95

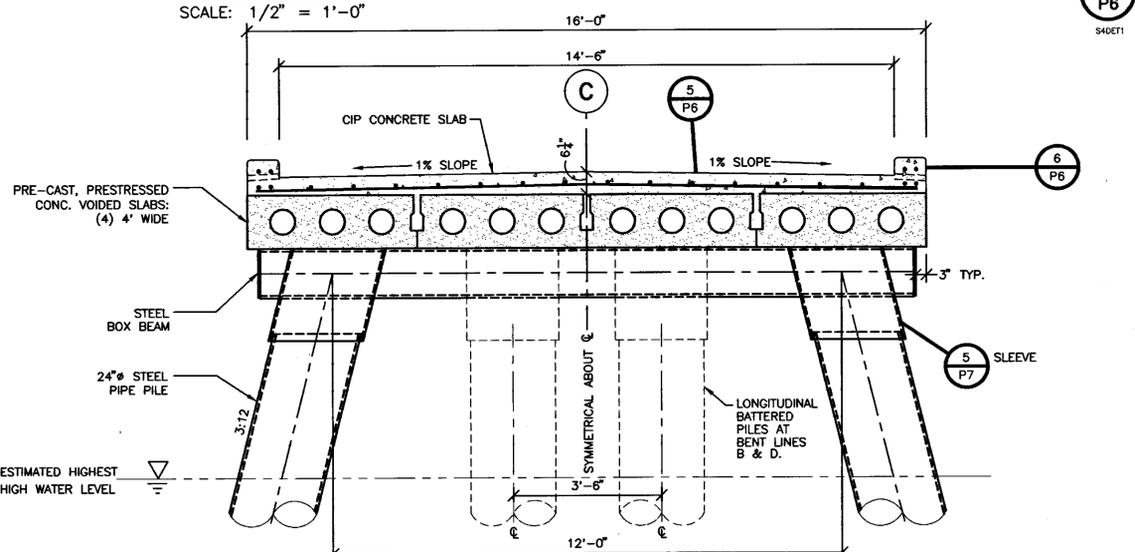


PIER PROFILE / LONGIT. CROSS SECTION
FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NO. 8864-2 CONTRACT NO. 05-00-08



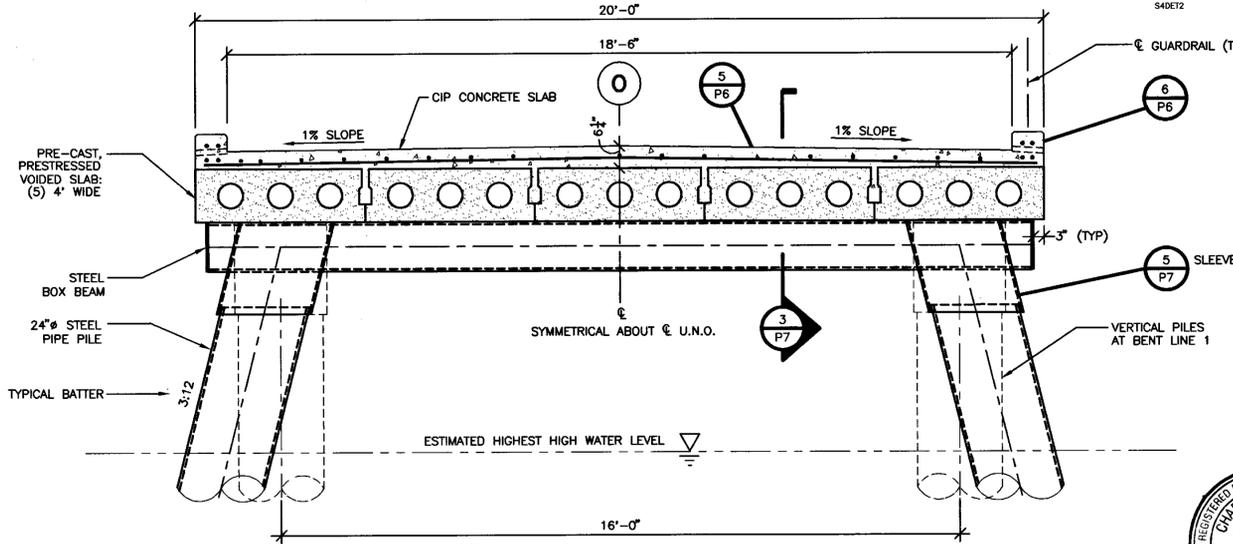
13'-6" WIDE DECK SECTION AT PILE CAP C

SCALE: 1/2" = 1'-0"



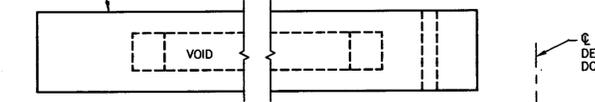
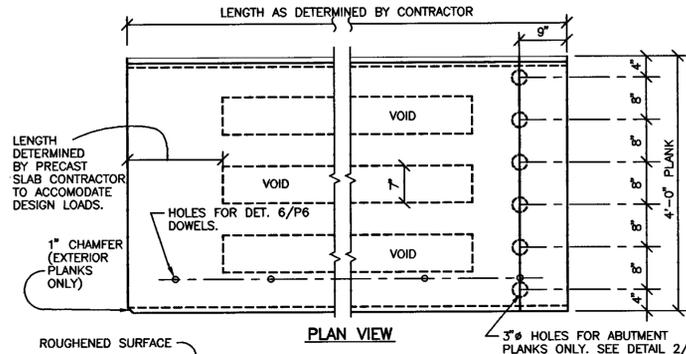
16'-0" WIDE DECK SECTION AT PILE CAP C

SCALE: 1/2" = 1'-0"



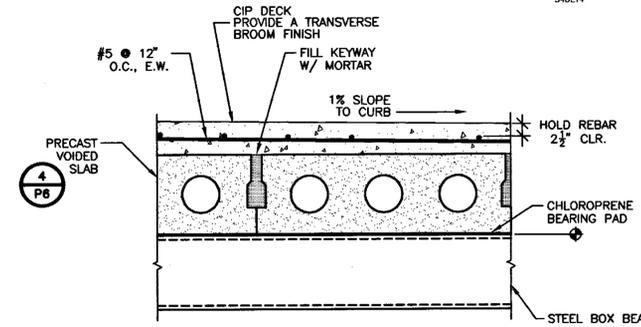
20'-0" WIDE DECK SECTION AT PILE CAP C

SCALE: 1/2" = 1'-0"



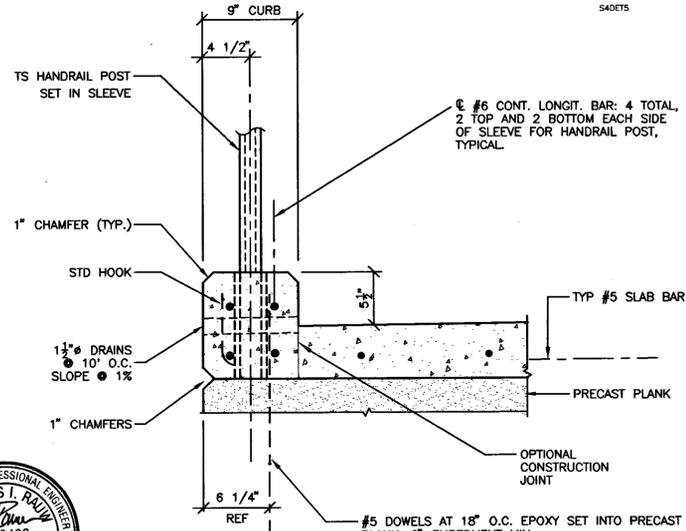
TYP. PRECAST DECK PLANKS

SCALE: 3/4" = 1'-0"



TYPICAL DECK SECTION

SCALE: 3/4" = 1'-0"

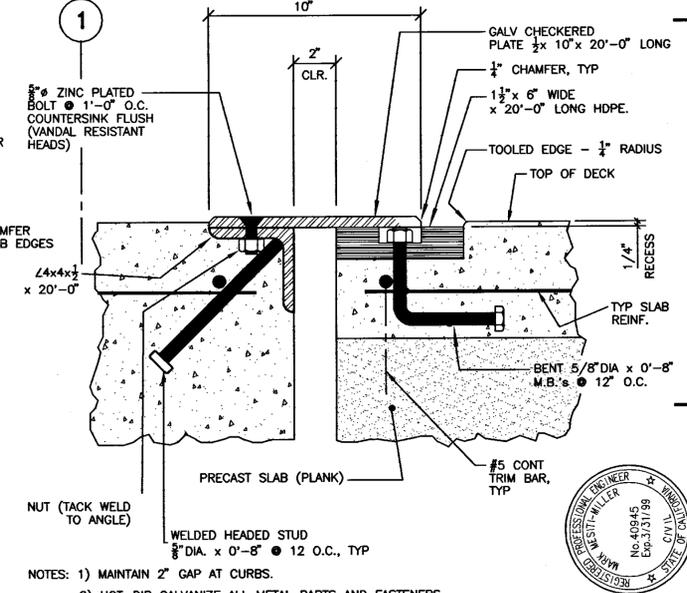


TYP. CURB DETAIL

SCALE: 1 1/2" = 1'-0"

PRECAST PLANK NOTES:

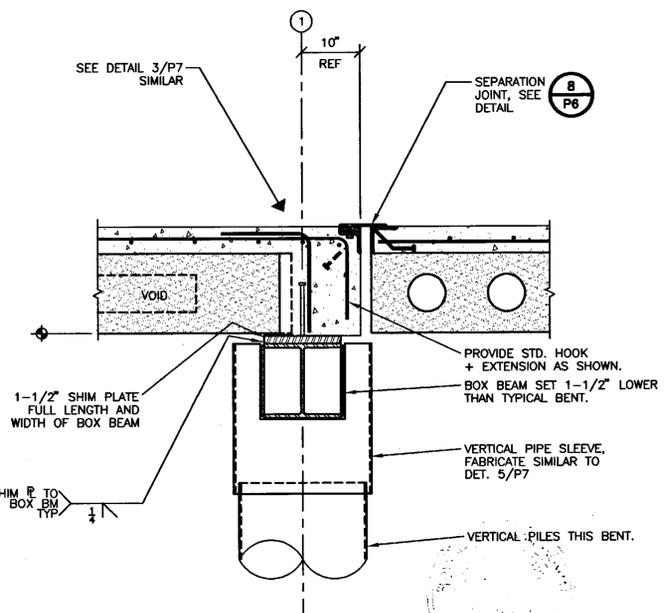
1. PRECAST PLANKS SHALL BE DESIGNED FOR PRETENSIONING.
2. PRECAST/PRETENSIONED PLANKS SHALL HAVE A DEAD LOAD CAPACITY OF 75 PSF PLUS A LIVE LOAD CAPACITY OF #20 WHEEL OR SUPERIMPOSED LANE LOADING, WHICHEVER IS GREATER (SEE SHEET P3 FOR LOAD DESIGN CRITERIA).
3. CONCRETE STRENGTH AT TIME OF STRESSING $f'_{c} = 4,000$ PSI AND $f'_{c} = 4,000$ PSI AT 28 DAYS.
4. TOP SURFACE OF PRECAST PLANKS TO RECEIVE TOPPING SHALL HAVE A ROUGHENED FINISH HAVING A 1/4" FULL AMPLITUDE. ALL OTHER SURFACES SHALL HAVE A CLEAN, SMOOTH FINISH FREE OF VOIDS AND OTHER SURFACE DEFECTS.
5. ALL CAST IN PLACE CONCRETE, INCLUDING THE CONCRETE FOR THE DECK, CURBS, ABUTMENT, ETC. SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. FILL ALL KEYWAYS BETWEEN PLANKS WITH MORTAR. MINIMUM COMPRESSIVE STRENGTH OF MORTAR AT 28 DAYS SHALL BE 4,000 PSI.
6. THE SPAN LENGTH OF THE PLANKS DETERMINED FROM SHEET P4 PLAN DIMENSIONS AND DETAIL 3/P7 SHALL NOT BE GREATER THAN THE DIMENSIONED SPAN LENGTH + 6 INCHES.



SEPARATION JOINT DETAIL

SCALE: 3" = 1'-0"

- NOTES:
- 1) MAINTAIN 2" GAP AT CURBS.
 - 2) HOT-DIP GALVANIZE ALL METAL PARTS AND FASTENERS.
 - 3) HEADED STUDS SHALL BE NELSON STUD TYPE OR EQUIVALENT; SEE SPECS. - SHEAR STUD CONNECTORS. (1-800-635-9353)



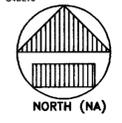
PIER CAP AT BENT LINE 1

SCALE: 3/4" = 1'-0"



APPROVED
 design: *al*
 operations: *Ray Dawson*

scale: AS SHOWN
 drawn: WTG
 checked: JOK
 date: 12/15/95



SECTIONS + DETAILS - PILES, CAPS AND DECK
 FISHING PIER IMPROVEMENT PLANS
ECKLEY
 CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CALIFORNIA

TABER CONSULTANTS
 ENGINEERS and GEOLOGISTS
 536 GALVESTON STREET
 WEST SACRAMENTO, CA 95691
 (916) 371-1680

QUADRATIC & COMPUTER AIDED DESIGN
 ENGINEERING & CONSULTING
 2100 14TH STREET
 SACRAMENTO, CA 95811
 (916) 442-2222

MESITI-MILLER ENGINEERING
 Civil and Structural Engineering
 224 Walnut Ave.
 Suite 202, CA 94601 424 428 3198
 Mar. 08, 1996 - 16:16:31

IN ASSOCIATION WITH:

PROJECT ENGINEER:
CHARLES I. RAUW
 Consulting Engineers
 1505 Ortega Drive, Martinez, CA 94553
 (510) 229-9637

SHEET NO.
P-6
 OF: 64
 NO:

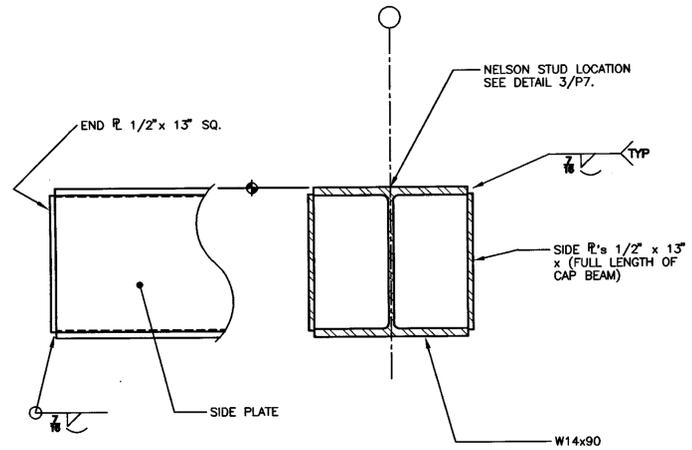
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REVISIONS



EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

PROJECT NO. 0004-2 CONTRACT NO. 05-90-00

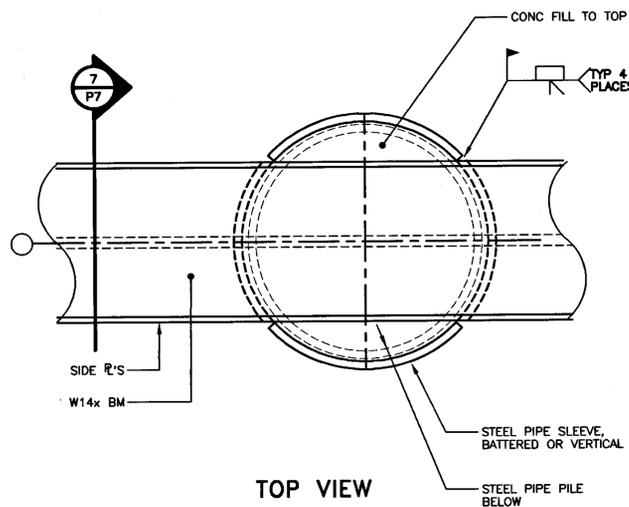


END/SIDE VIEW SECTION

TYPICAL CAP/BOX BEAM

SCALE: 1 1/2" = 1'-0"

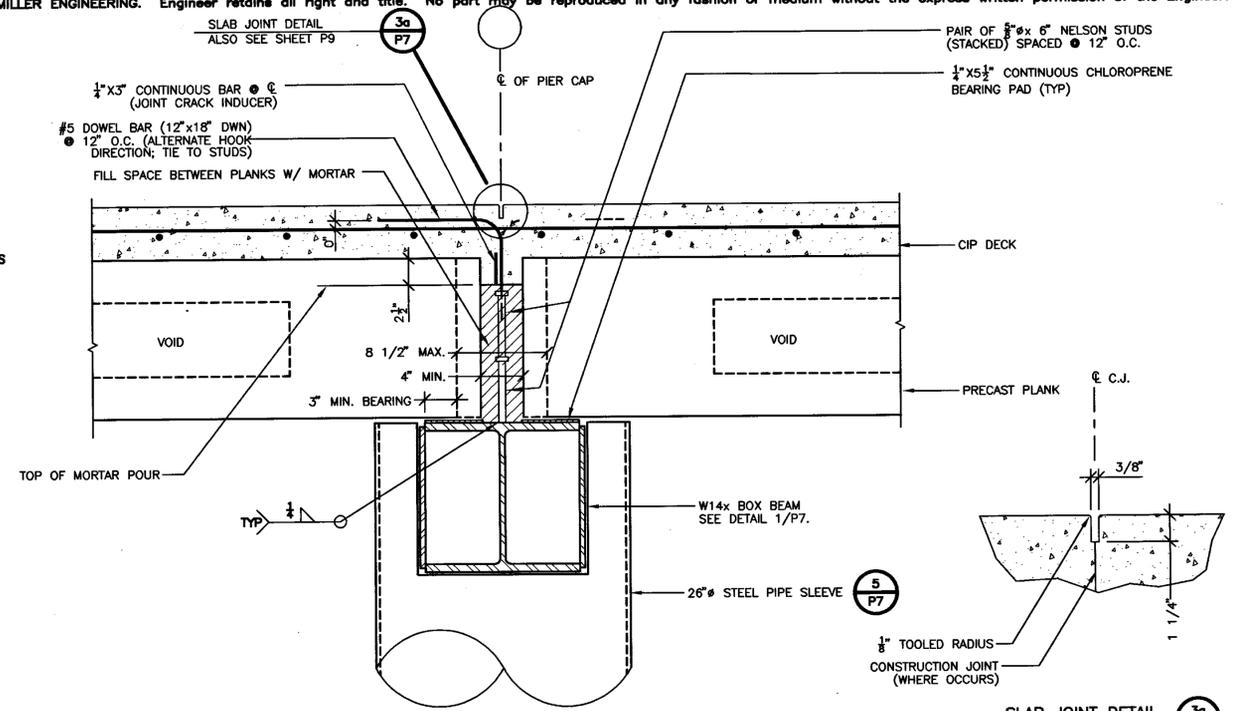
1
P7



W14x CAP BEAM at PILE

SCALE: 1 1/2" = 1'-0"

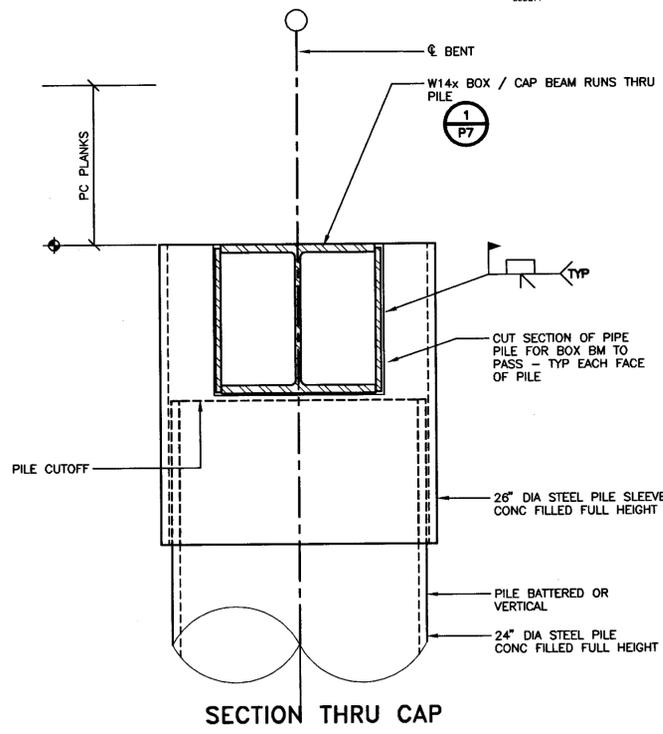
2
P7



TYP. PILE CAP SECTION

SCALE: 1 1/2" = 1'-0"

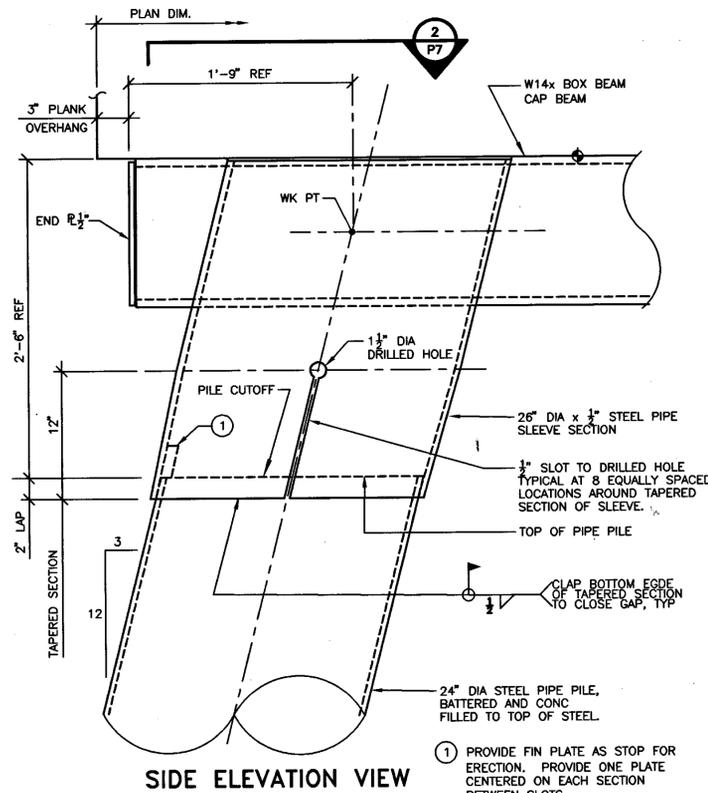
3
P7



BOX/CAP BM TO PILE CONN.

SCALE: 1-1/2" = 1'-0"

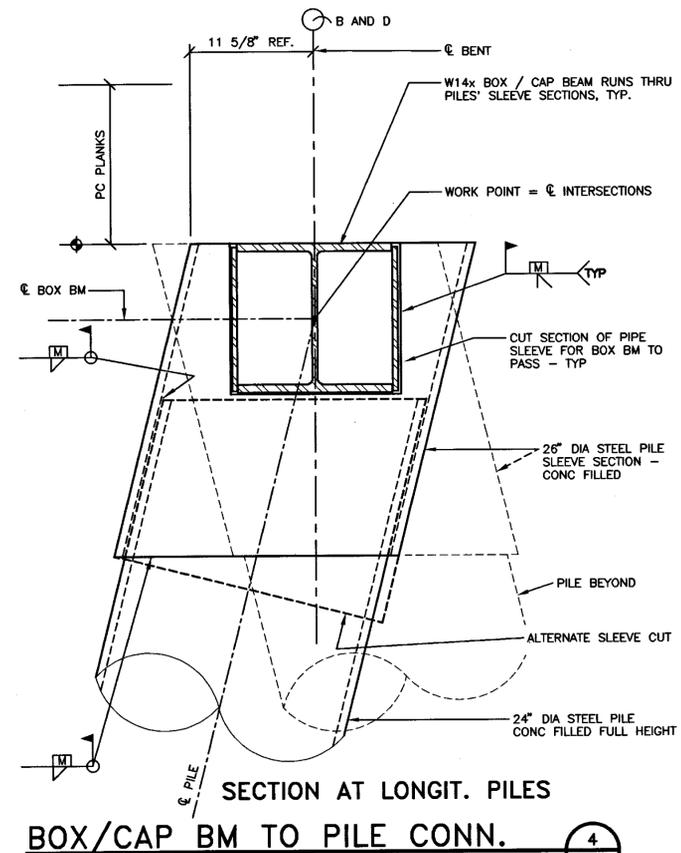
7
P7



PILE TO CAP BM CONN.

SCALE: 1 1/2" = 1'-0"

5
P7



BOX/CAP BM TO PILE CONN.

SCALE: 1-1/2" = 1'-0"

4
P7

SLAB JOINT DETAIL

3a
P7



TABER CONSULTANTS
ENGINEERS and GEOLOGISTS
538 GALVESTON STREET
WEST SACRAMENTO, CA 95691
(916) 371-1690

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ENGINEERING & COMPUTER AIDED DESIGN
2711 OAKLAND AVENUE
OAKLAND, CA 94612
(415) 552-4022

MESITI-MILLER ENGINEERING
Civil and Structural Engineering
224 Walnut Ave., Santa Cruz, CA 95060 408 428 3188
Apr 01, 1996 - 10:46:59

IN ASSOCIATION WITH:



PROJECT ENGINEER:
CHARLES I. RAUW
Consulting Engineers 1605 Ortegus Drive, Martinez, CA 94553 (916) 223-8837



MME CAD FILE NO. EA184181'S

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED

design: *[Signature]*
operations: *[Signature]*

scale: AS SHOWN
drawn: WTG/JOK
checked: JOK
date: 11/15/95



CAP BEAMS SECTIONS + DETAILS
FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NO. 8884-2 CONTRACT NO. 05-98-08

SHEET NO.
P-7
OF: 64
NO:

TABER CONSULTANTS
ENGINEERS and GEOLOGISTS
556 CALVERTON STREET
SAN FRANCISCO, CA 94102
(415) 371-1690

QUADRATICS
ENGINEERING & COMPUTER AIDED DESIGN
2010 800-200-2000
San Francisco, CA 94103

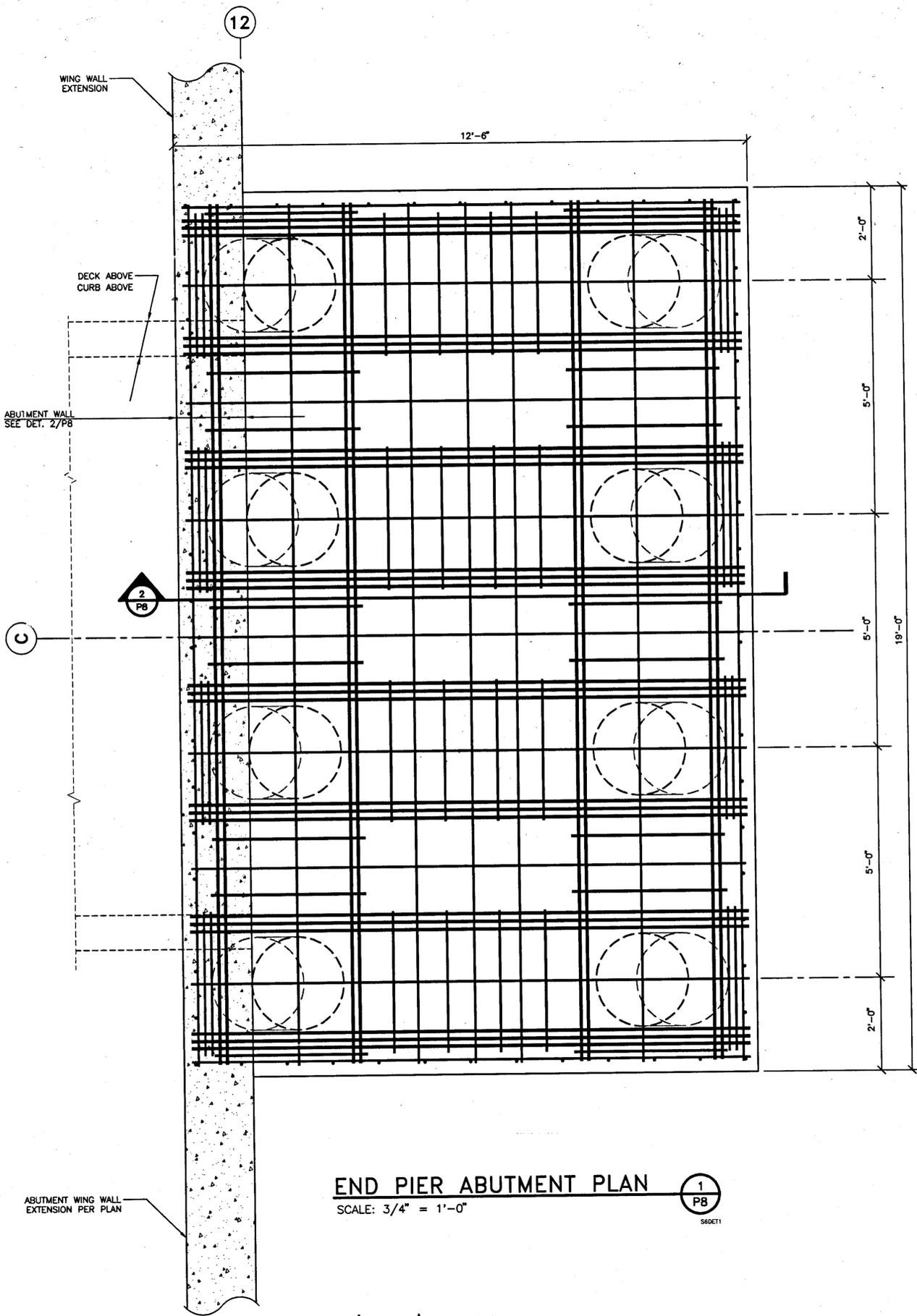
MESITI-MILLER ENGINEERING
Civil and Structural Engineering
No. 40945
Exp. 01/01/98
224 Walnut Ave.
San Jose, CA 95006 408 408 3195

IN ASSOCIATION WITH:

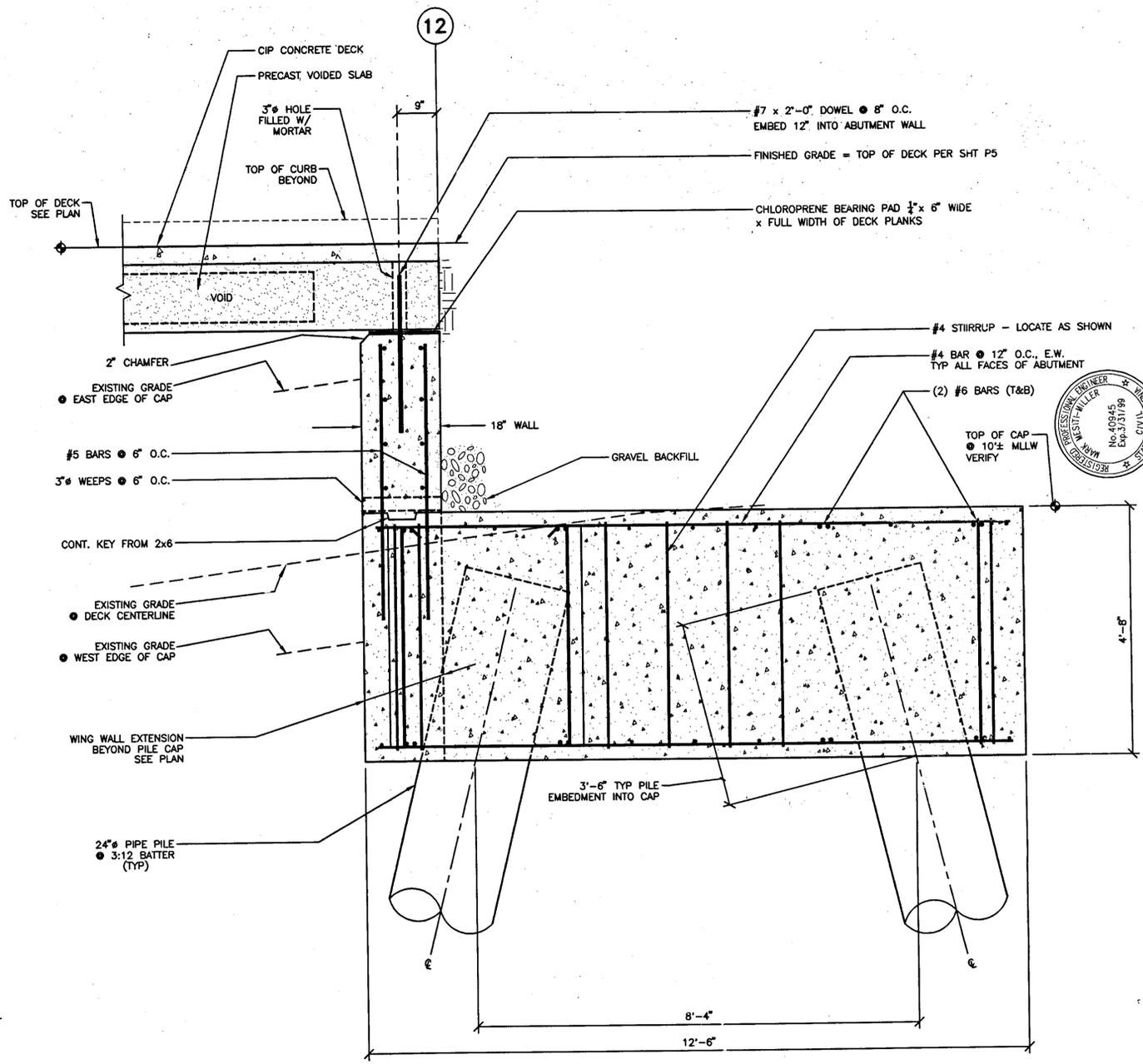


PROJECT ENGINEER:
CHARLES I. RAU
Consulting Engineers 1606 Ortega Drive, Martinez, CA 94553 (916) 229-9637

SHEET NO.
P-8
OF: 64
NO:



END PIER ABUTMENT PLAN
SCALE: 3/4" = 1'-0"
1
PB
S6DET1



END ABUTMENT SECTION
SCALE: 3/4" = 1'-0"
2
PB
S6DET2

WAE CAD FILE NO: E1\4181\1\6

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

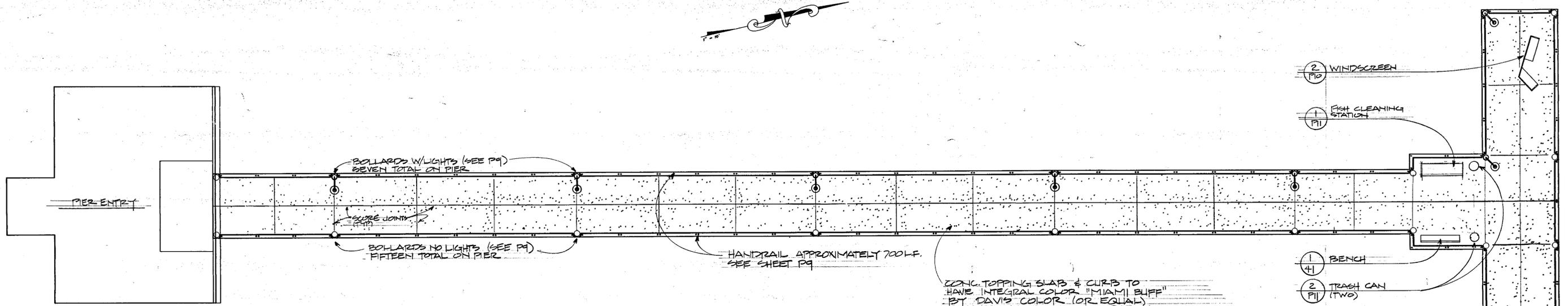
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design: *[Signature]*
operations: *[Signature]*

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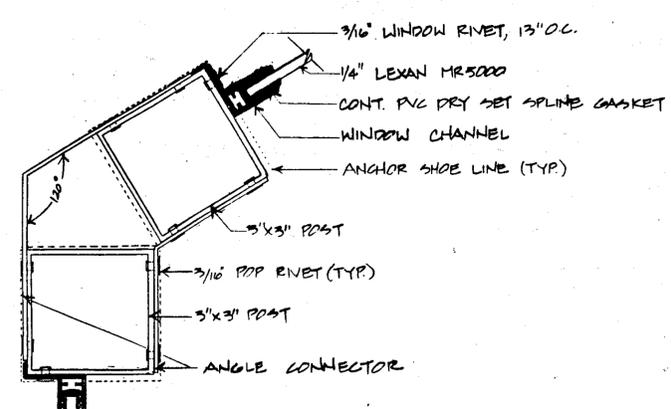


ABUTMENT PLAN + SECTIONS
FISHING PIER IMPROVEMENT PLANS
ECKLEY
CAROINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA

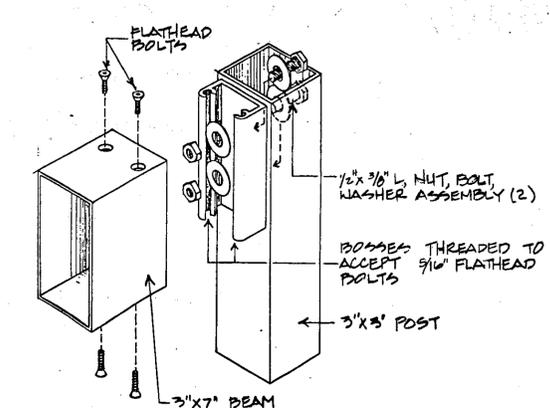




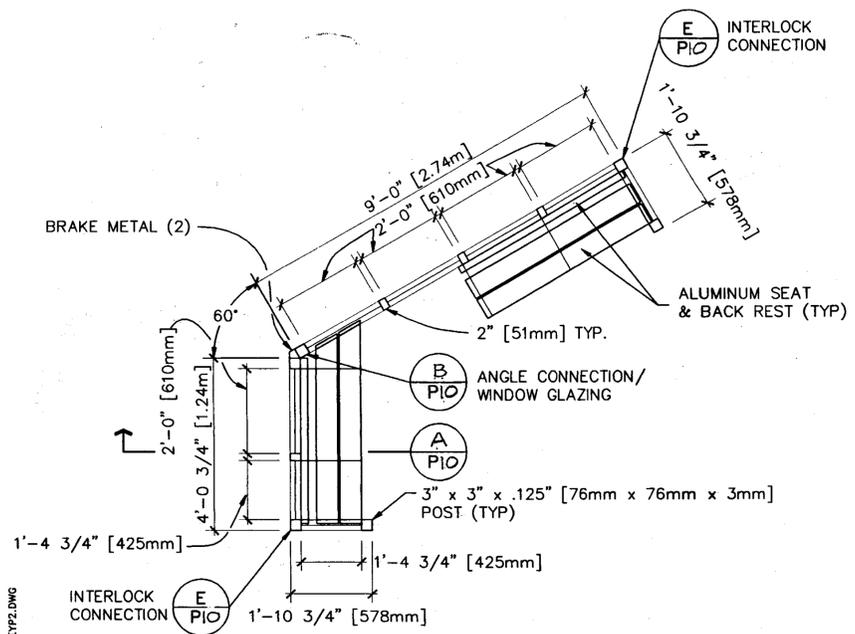
1 FISHING PIER PLAN
P10
SCALE 1" = 10'-0"



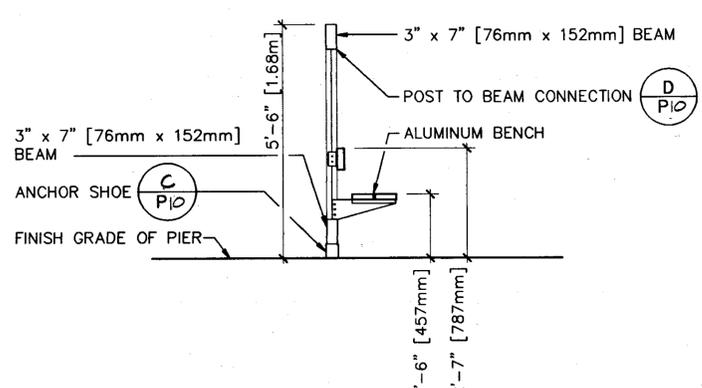
B ANGLE CONNECTION/WINDOW GLAZING
P10
NOT TO SCALE



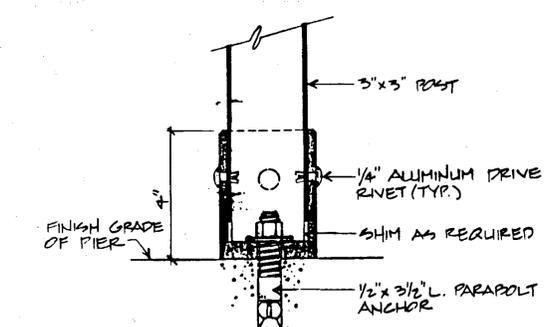
D POST-BEAM CONNECTION
P10
NOT TO SCALE



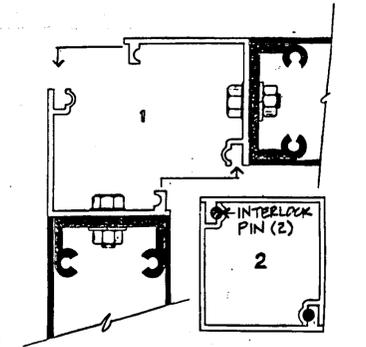
2 WINDSCREEN PLAN
P10
SCALE 1/2\"/>



A SECTION
P10
NOT TO SCALE



C ANCHOR SHOE
P10
NOT TO SCALE



E INTERLOCK CONNECTION
P10
NOT TO SCALE

C:\PROJECTS\ECKLEY\ECKLEY2.DWG

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

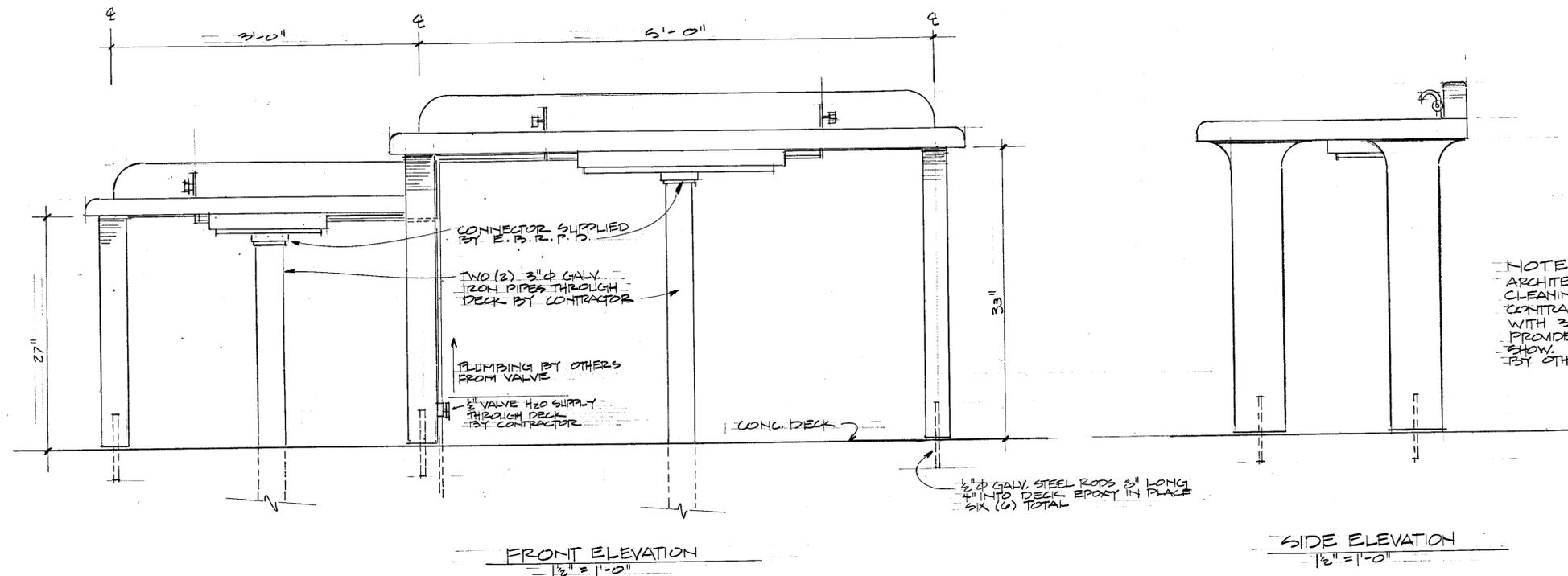
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design: *Ray Dawson*
operations: *Ray Dawson*

scale: 1" = 10'
drawn: STAFF
checked: ML
date: 4-4-96

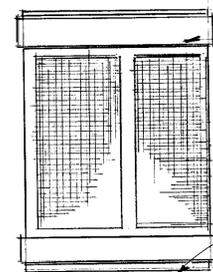


PIER AMENITIES
FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NUMBER 665A-2 CONTRACT NUMBER 05-96-99

SHEET NO.
P10
OF: 64
NO:



1 FISH CLEANING STATION
P11



RECEPTACLE 29" COLOR BLACK BY DU MOIR, INC. AVAIL THROUGH BOSS RECREATION EQUIP. CO. INC. SANTA ROSA (707) 526-4800

SECURE TO DECK W/ STANDARD "L" SHAPED ANCHOR BOLTS INTO DECK

ELEVATION
NO SCALE

2 TRASH CAN
P11

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED

design: *[Signature]*

operations: *[Signature]*

scale: AS SHOWN

drawn:

checked:

date: 4-4-96



NORTH

PIER AMENITIES
FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL PARK
CONTRA COSTA COUNTY, CALIFORNIA

PROJECT NUMBER 065A-2

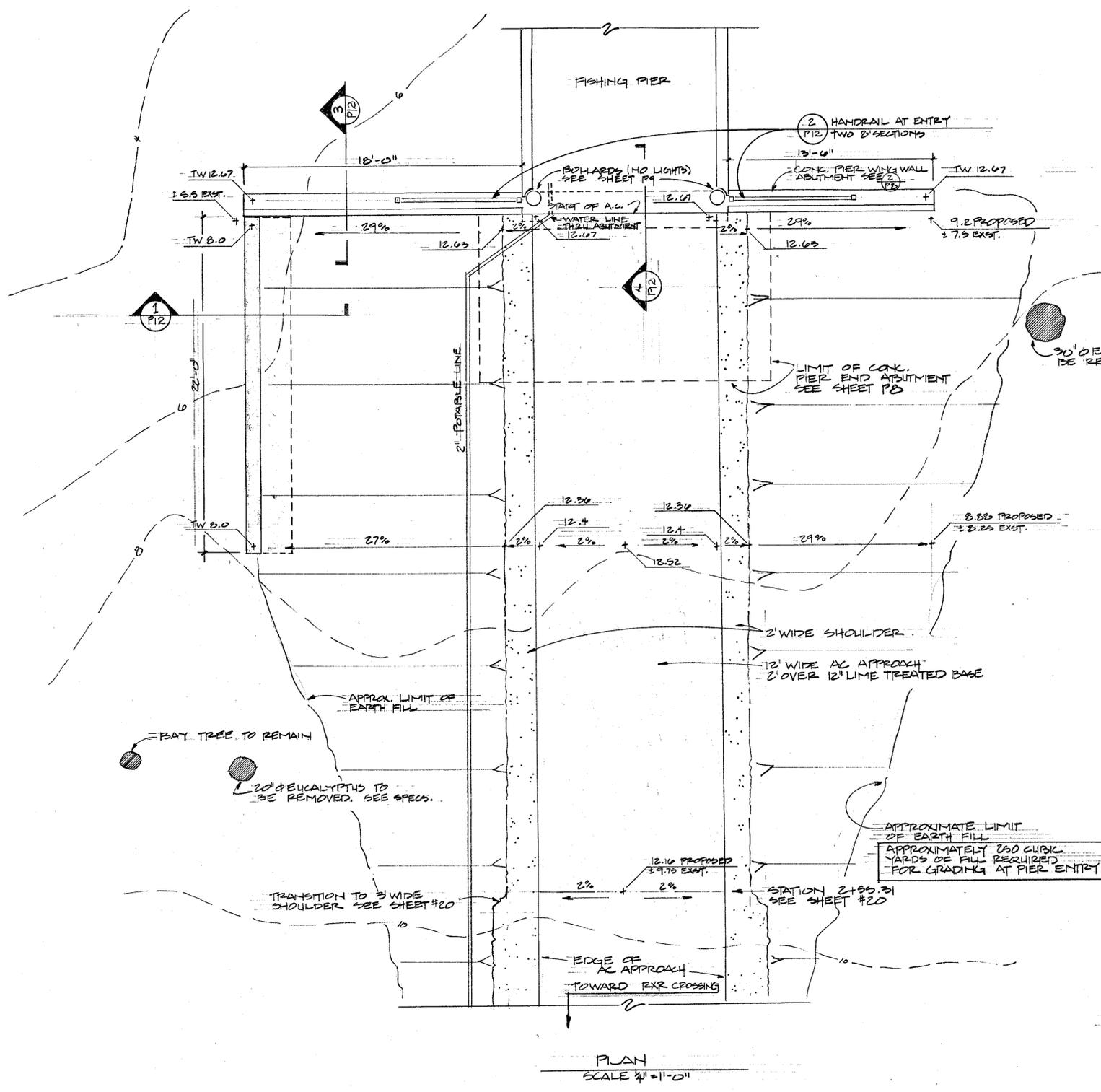
CONTRACT NUMBER 05-96-09

SHEET NO.

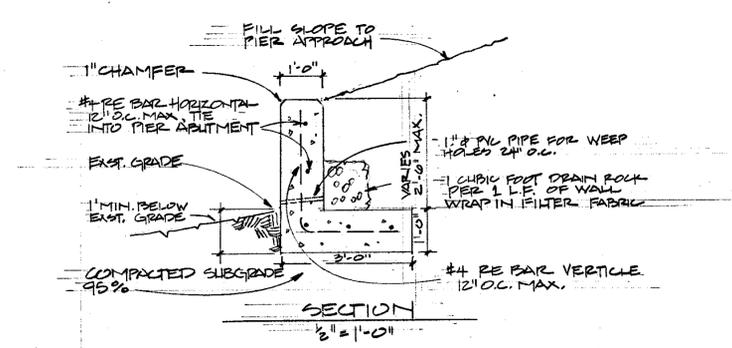
P11

OF: 64

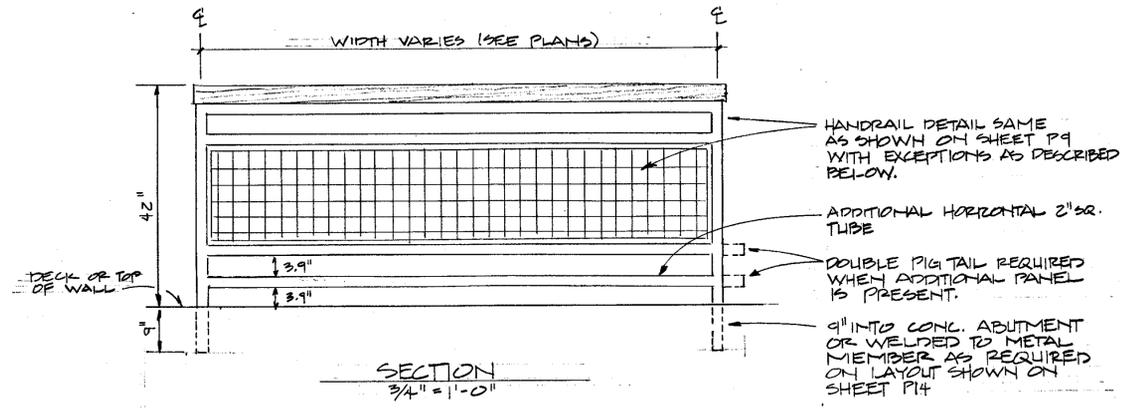
NO:



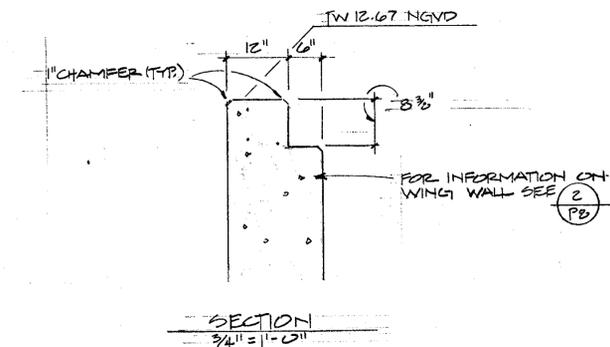
PIER ENTRY
BASE BID



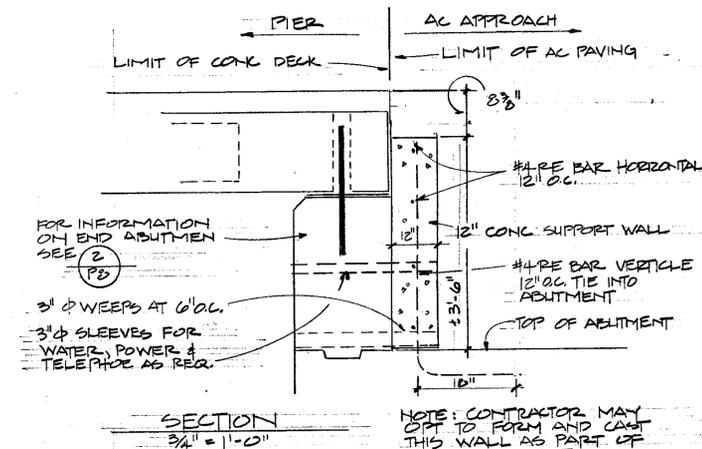
1 CONCRETE RETAINING WALL



2 HANDRAIL AT ENTRY

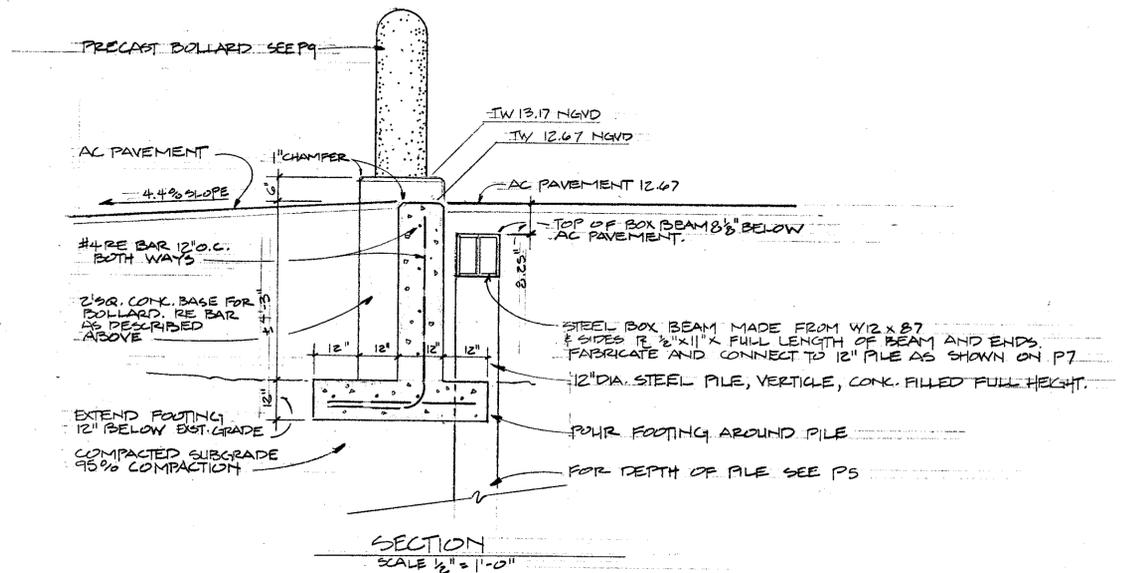
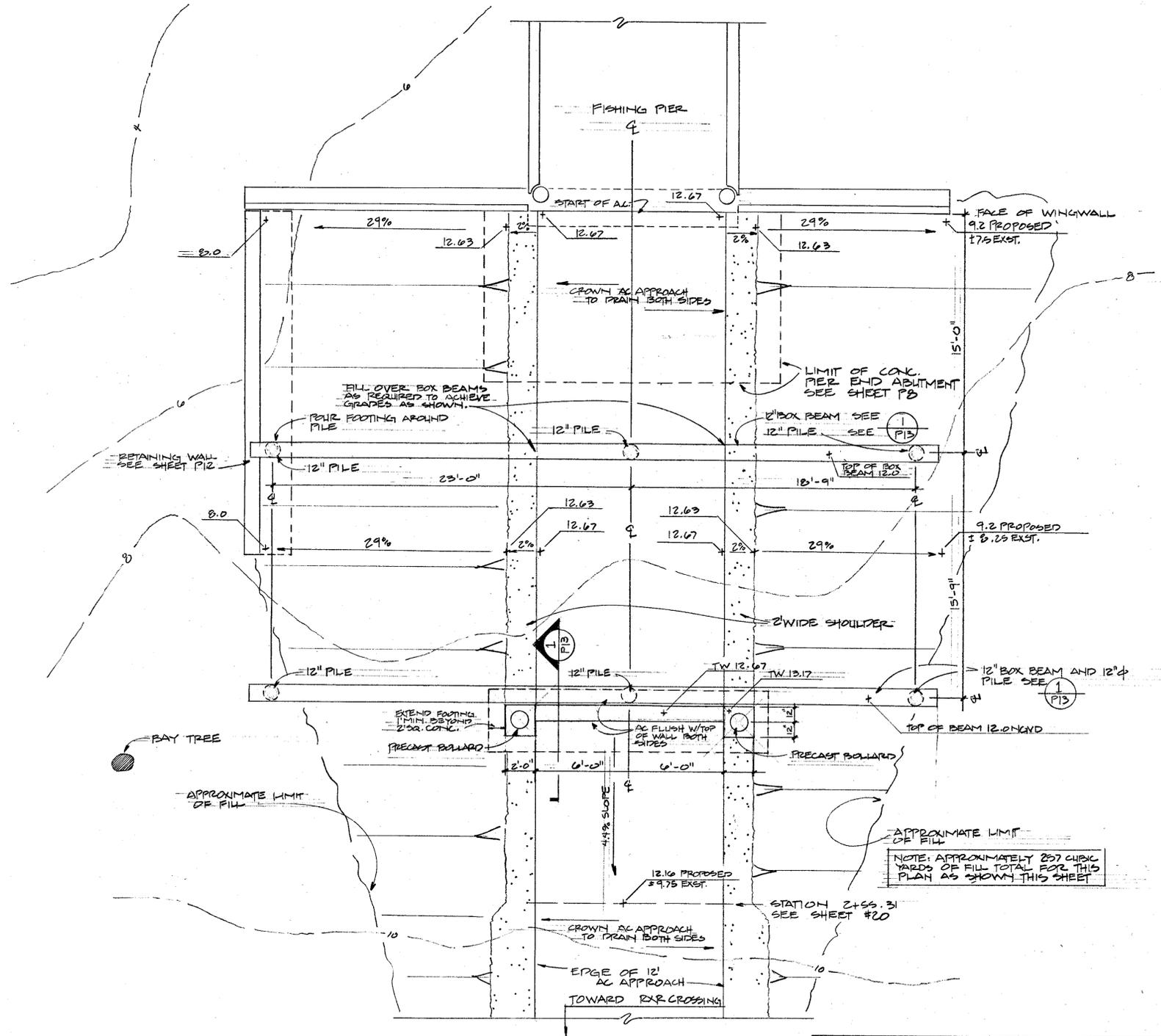


3 TOP OF WING WALL



4 CONCRETE SUPPORT WALL

REVISIONS



1 P13 RETAINING WALL WITH BOLLARDS

NOTE: PIER ENTRY WITH PILES, BEAMS, & BOLLARDS REPRESENTS ADD ALTERNATE # K. THE SIX PILES, TWO BOX BEAMS, RETAINING WALL WITH BOLLARDS, AND REQUIRED ADDITIONAL FILL (±72 CY) SHOWN ON THIS SHEET COMPRISE ALL THE WORK TO BE INCLUDED FOR ADD ALTERNATE # K.

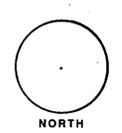
PIER ENTRY WITH PILES, BEAMS, & BOLLARDS
ADD ALTERNATE K

REVISIONS

EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CALIF. 94605 510/635-0135

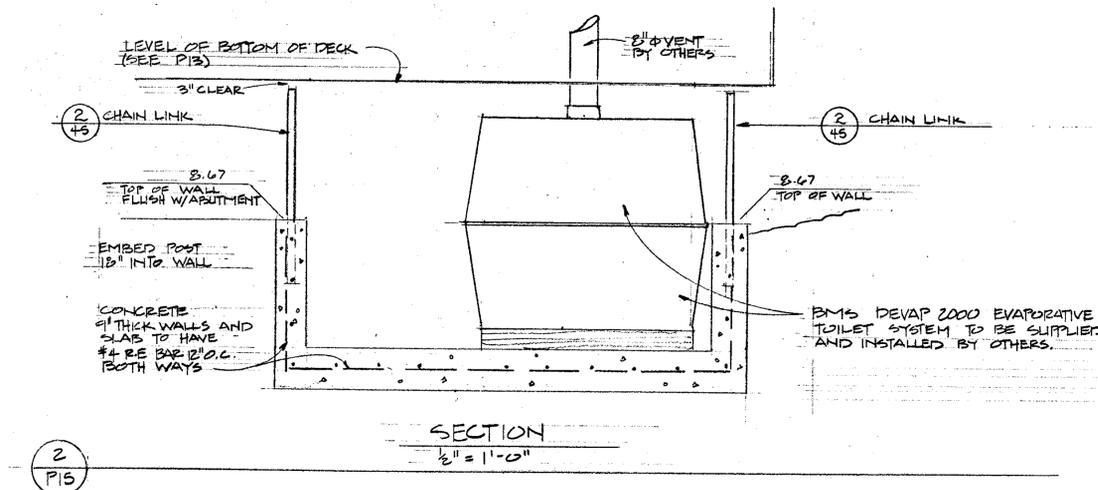
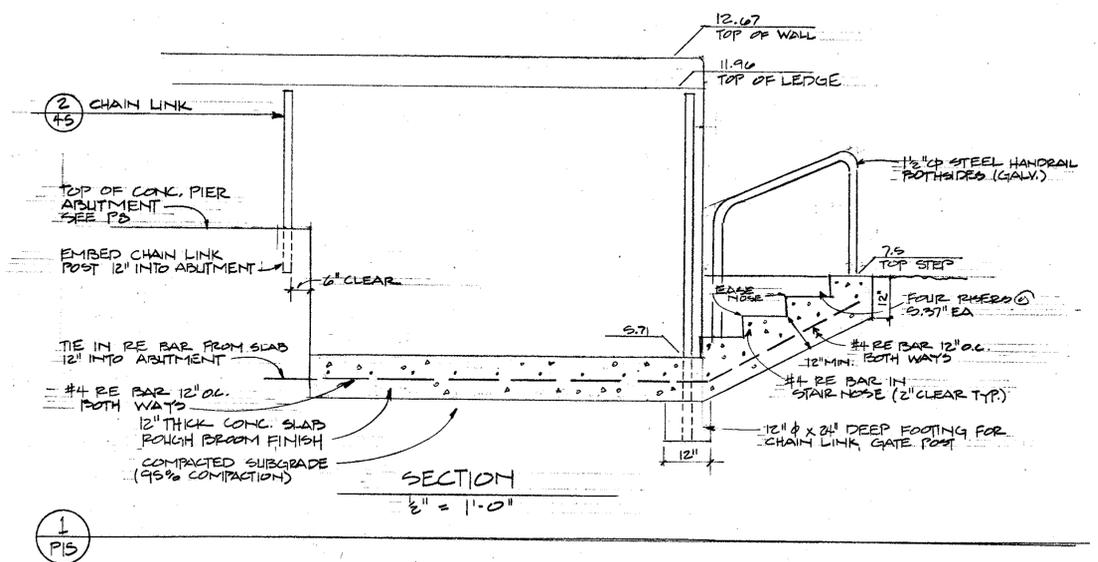
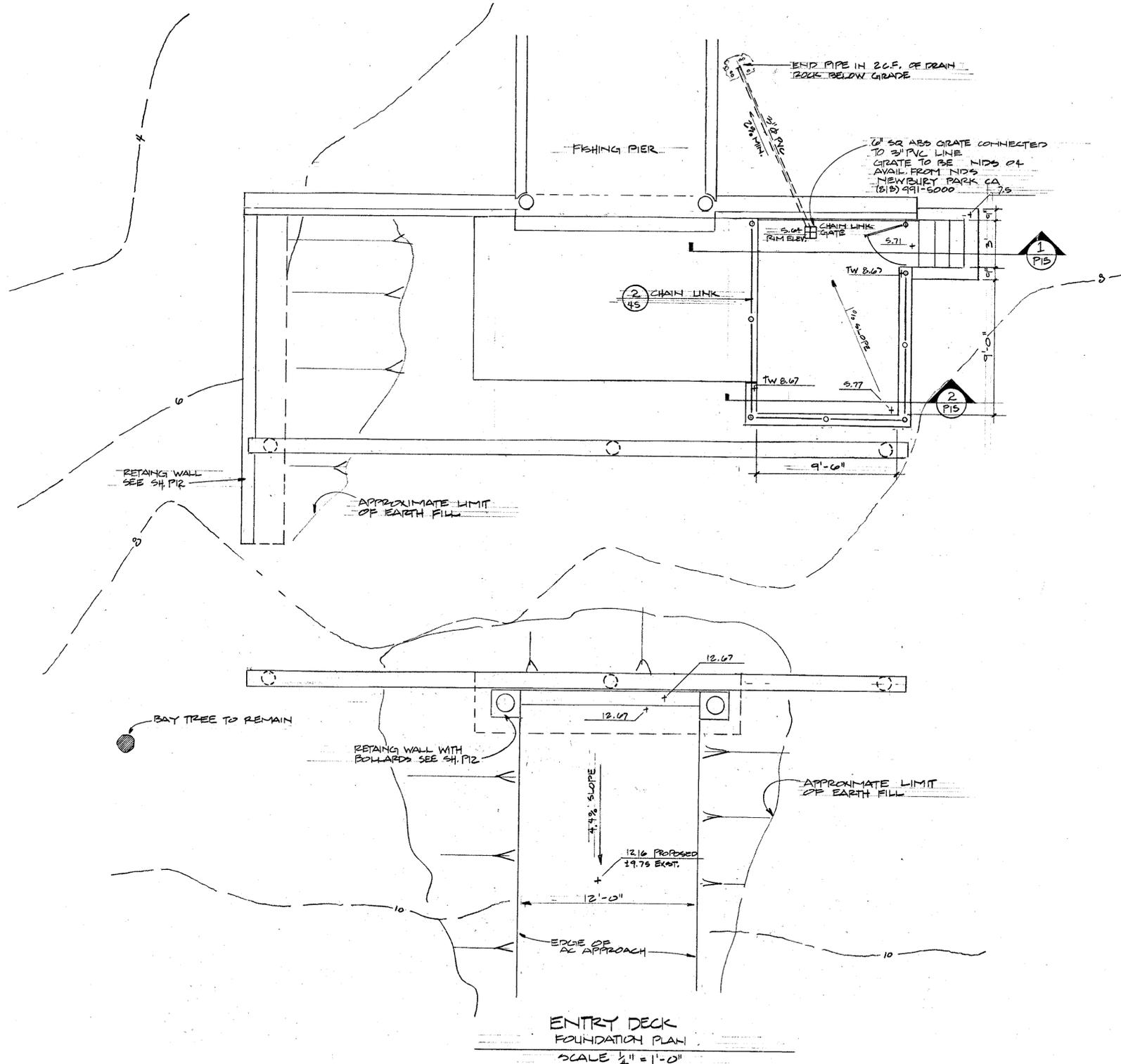
APPROVED
design: M.L.
operations: Ray Dawson

scale: AS SHOWN
drawn: M.L.
checked:
date: 4-4-96



PIER ENTRY WITH PILES, BEAMS, AND BOLLARDS
FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL PARK
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NUMBER 066A-2 CONTRACT NUMBER 05-96-06

SHEET NO. P13
OF: 64
NO.



ENTRY DECK
ADD ALTERNATE L

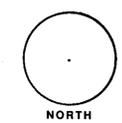
REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CALIF. 94605 510/635-0135

APPROVED
design: [Signature]
operations: Ray Dawson

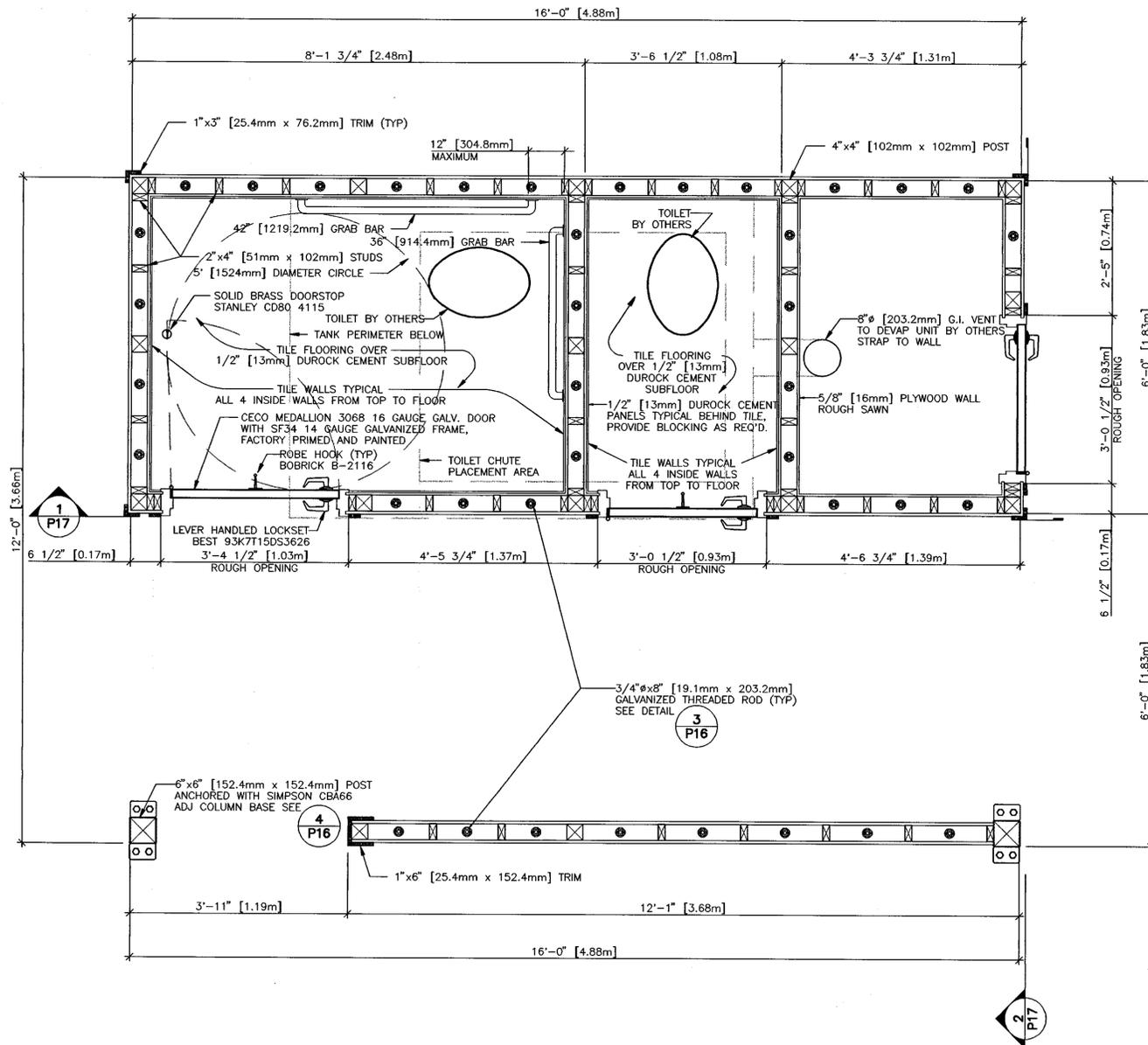
scale: AS SHOWN
drawn: M.L.
checked:
date: 4-4-96



ENTRY DECK
FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL PARK
CONTRA COSTA COUNTY, CALIFORNIA

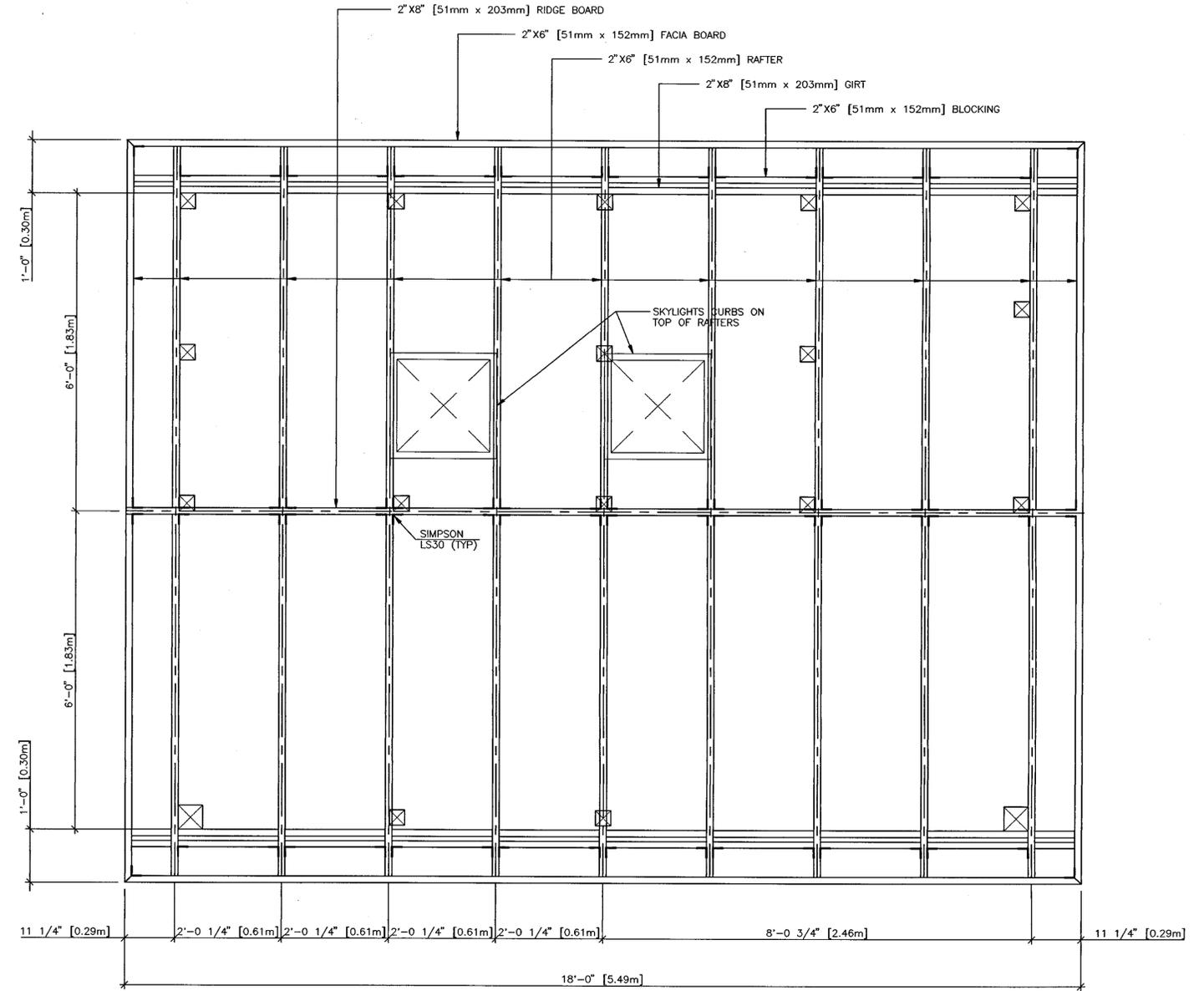
PROJECT NUMBER 086A-2 CONTRACT NUMBER 05-00-00

SHEET NO.
P15
OF: 64
NO.



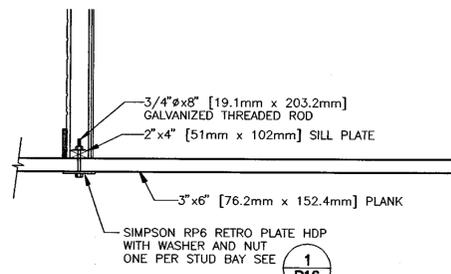
FLOOR PLAN

SCALE: 3/4"=1'-0"



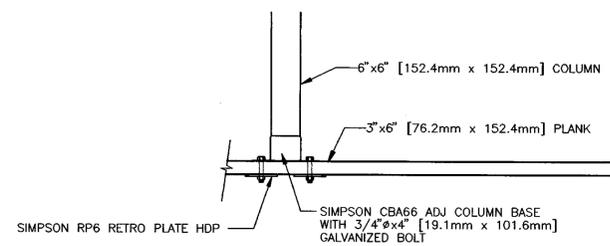
ROOF FRAMING PLAN

SCALE: 3/4"=1'-0"



DETAIL

SCALE: 3/4"=1'-0"



DETAIL

SCALE: 3/4"=1'-0"

C:\PROJECTS\ECKLEY\TOILET-1.DWG

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED

design: *ML*

operations: *Ray Dawson*

scale: AS SHOWN

drawn: JOB

checked: ML

date: 4-4-96

EVAPORATIVE TOILET STRUCTURE
 FISHING PIER IMPROVEMENT PLANS

ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CALIFORNIA

PROJECT NUMBER 065A-2

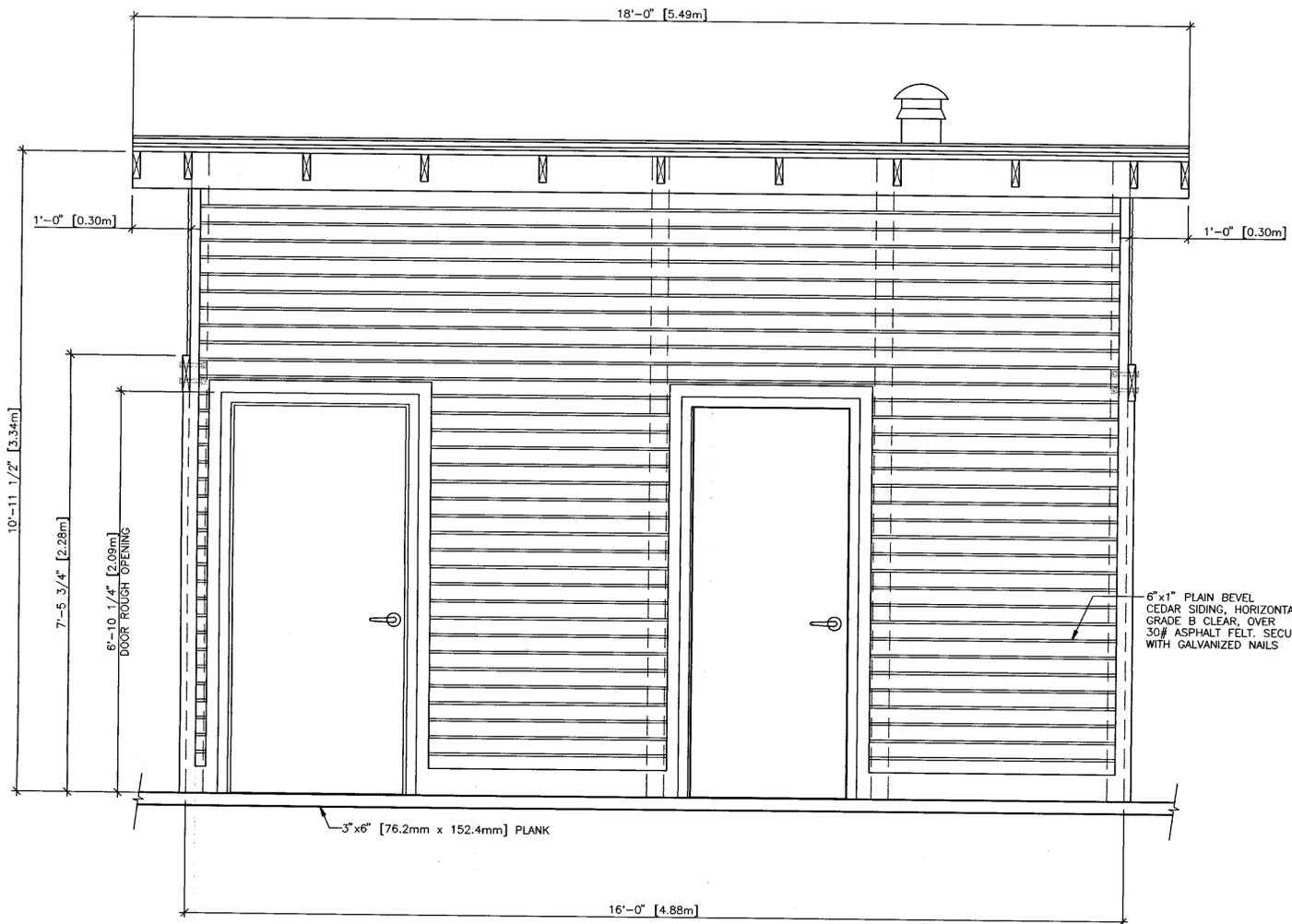
CONTRACT NUMBER 05-90-09

SHEET NO.

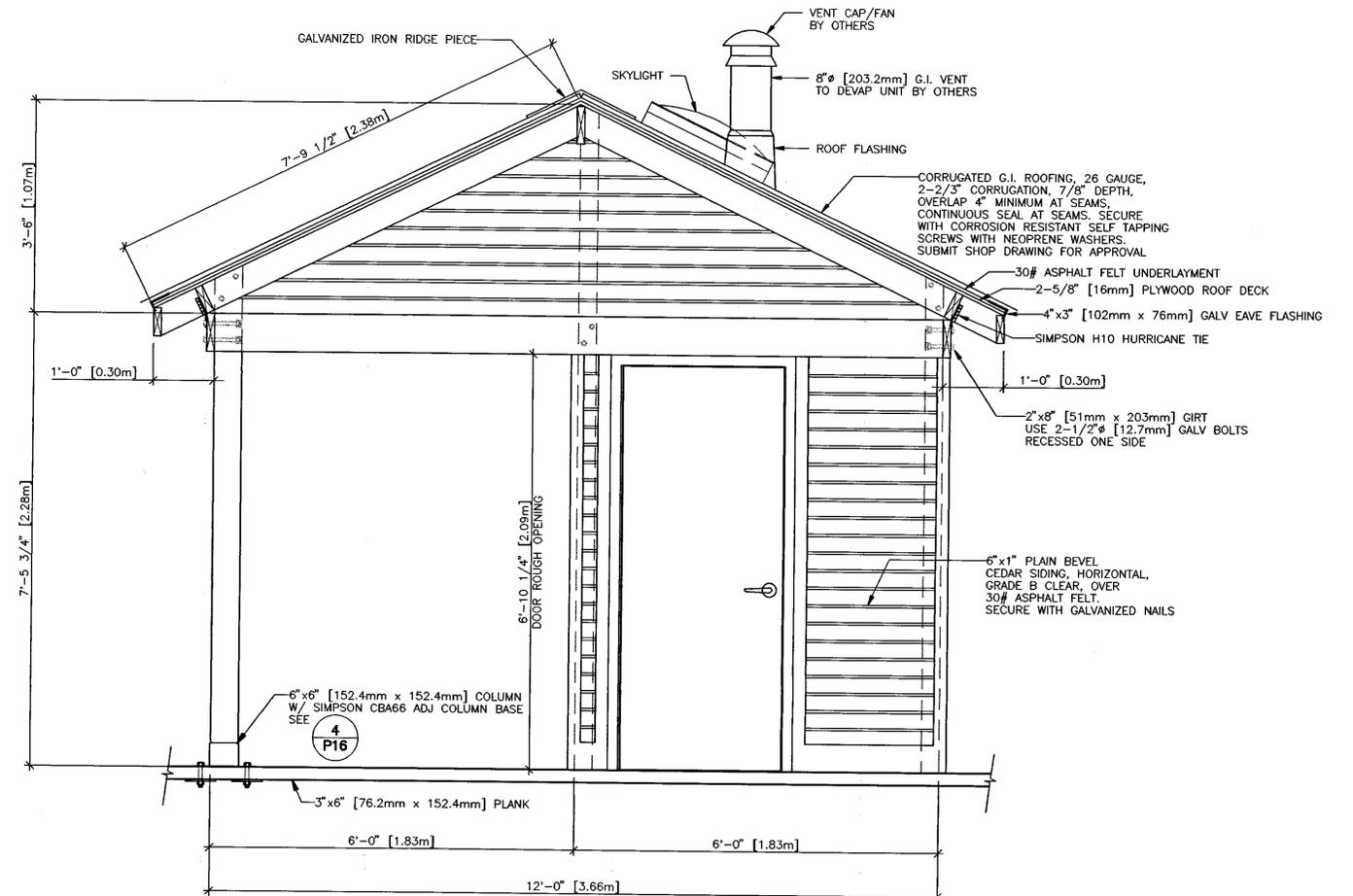
P16

OF: 64

NO:



BREEZEWAY ELEVATION
SCALE: 3/4"=1'-0"



SOUTH ELEVATION
SCALE: 3/4"=1'-0"

C:\PROJECTS\ECKLEY\TOILET-2.DWG

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
design: *[Signature]*
operations: *Ray Dawson*

scale: AS SHOWN
drawn: JOB
checked: ML
date: 4-4-96

EVAPORATIVE TOILET STRUCTURE
FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NUMBER 065A-2 CONTRACT NUMBER 05-96-99

SHEET NO.
P17
OF: 64
NO:

ABBREVIATIONS

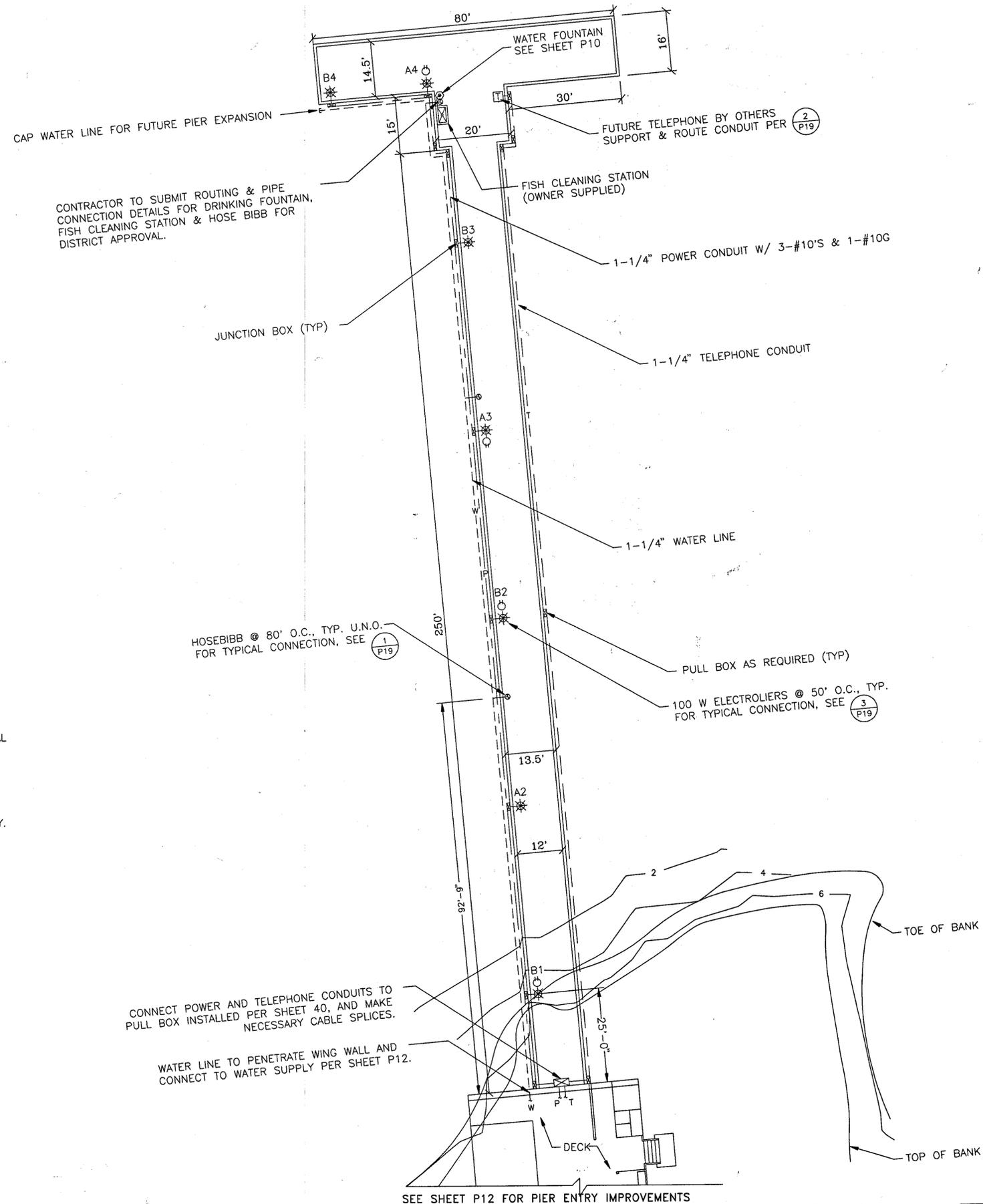
- GSP - GALVANIZED STEEL PIPE
- GRS - GALVANIZED RIGID STEEL
- HPS - HIGH PRESSURE SODIUM
- MAX. - MAXIMUM
- MIN. - MINIMUM
- O.C. - ON CENTER
- SS - STAINLESS STEEL
- TYP. - TYPICAL
- U.N.O. - UNLESS NOTED OTHERWISE
- W - WATTS

LEGEND

- A5* LUMINAIRE w/ CIRCUIT & NUMBER
- ⊙ 20A RECEPTACLE
- ⊕ HOSE BIBB
- T TELEPHONE
- W WATER
- P POWER
- ☒ JUNCTION OR PULL BOX

GENERAL NOTES

1. LOCATION OF UTILITY LINES IS SCHEMATIC. ACTUAL LOCATION SHALL BE DETERMINED IN FIELD.
2. SEE SHEET P19 FOR DETAILS ON UTILITY LINE ROUTING, CLAMPS AND CONNECTIONS.
3. ALL UTILITY LINES SHALL BE INSTALLED WITH EXPANSION/CONTRACTION FITTINGS AS NECESSARY.



CONNECT POWER AND TELEPHONE CONDUITS TO PULL BOX INSTALLED PER SHEET 40, AND MAKE NECESSARY CABLE SPLICES.

WATER LINE TO PENETRATE WING WALL AND CONNECT TO WATER SUPPLY PER SHEET P12.

SEE SHEET P12 FOR PIER ENTRY IMPROVEMENTS



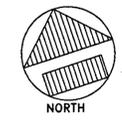
C:\PROJECTS\ECKLEY\SHR-U1.DWG

REVISIONS



EAST BAY REGIONAL PARK DISTRICT
 2950 PERALTA OAKS COURT, OAKLAND, CA 94605 510/635-0135

APPROVED
 design: *[Signature]*
 operations: *[Signature]*
 scale: 1"=15'
 drawn: JAM
 checked: CIR
 date: 03/30/96



UTILITY PLAN
 FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CALIFORNIA
 PROJECT NO. 0654-2 CONTRACT NO. 05-98-09

SHEET NO.
P18
 OF: 64
 NO:

PROJECT ENGINEER: **CHARLES I. RAUW**
 Consulting Engineers 1505 Ortega Drive, Martinez, CA 94553 (510)223-9637
 IN ASSOCIATION WITH:

 QUADRATIC ENGINEERING & COMPUTER AIDED DESIGN
 2010 20th Street, Emeryville, CA 94608
 TABER CONSULTANTS ENGINEERS and GEOLOGISTS
 536 GALVESTON STREET
 WEST SACRAMENTO, CA 95691
 (916) 371-1690

ABBREVIATIONS

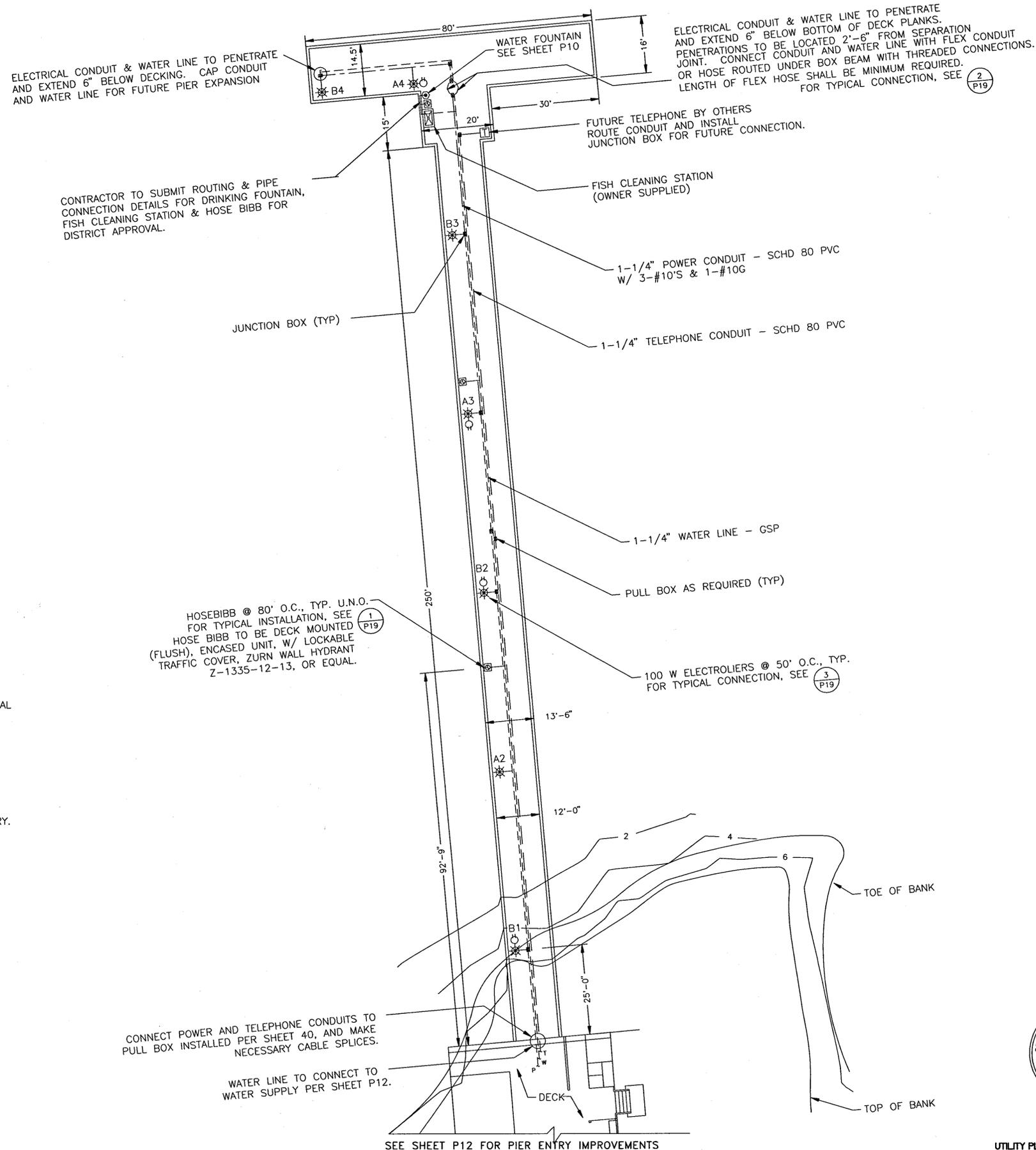
- GSP - GALVANIZED STEEL PIPE
- HPS - HIGH PRESSURE SODIUM
- MAX. - MAXIMUM
- MIN. - MINIMUM
- NTS - NOT TO SCALE
- O.C. - ON CENTER
- PVC - POLYVINYL CHLORIDE
- SS - STAINLESS STEEL
- TYP. - TYPICAL
- U.N.O. - UNLESS NOTED OTHERWISE
- W - WATTS

LEGEND

- A5 * LUMINAIRE w/ CIRCUIT & NUMBER
- ⊖ 20A RECEPTACLE
- ⊕ HOSE BIBB
- T TELEPHONE
- W WATER
- P POWER
- ⊠ JUNCTION OR PULL BOX

GENERAL NOTES

1. LOCATION OF UTILITY LINES IS SCHEMATIC. ACTUAL LOCATION SHALL BE DETERMINED IN FIELD.
2. SEE SHEET P19 FOR DETAILS ON UTILITY LINE ROUTING AND CONNECTIONS.
3. UTILITY LINES SHALL BE ROUTED AND CAST IN TOPPING SLAB EXCEPT WHERE NOTED.
4. ALL UTILITY LINES SHALL BE INSTALLED WITH EXPANSION/CONTRACTION FITTINGS AS NECESSARY.



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REVISIONS
REVISION - 04/18/96



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ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
CONTRA COSTA COUNTY, CALIFORNIA
PROJECT NO. 0054-2 CONTRACT NO. 05-06-00



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TABER CONSULTANTS
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536 GALVESTON STREET
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(916) 371-1690

QUADRATICS
ENGINEERING & COMPUTER AIDED DESIGN
224 Walnut Ave
San Francisco, CA 94102
(415) 777-2000

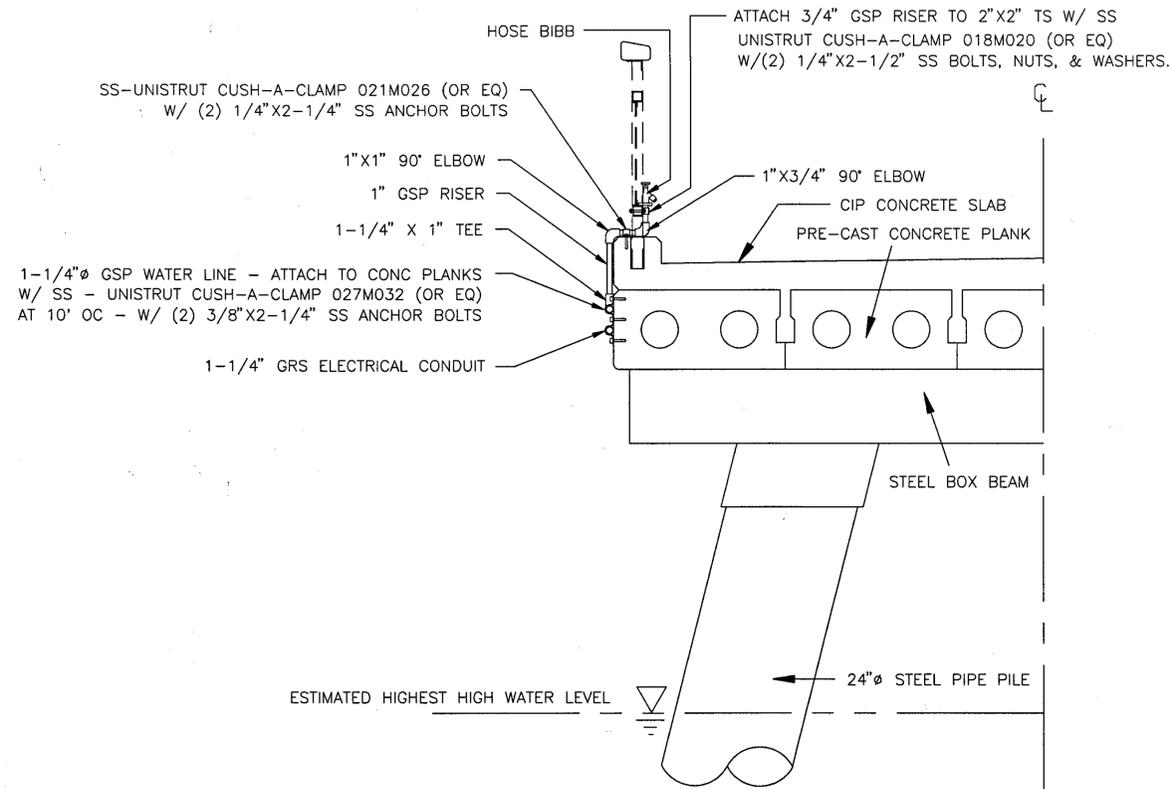
MESH-MILLER ENGINEERING
Civil and Structural Engineering
224 Walnut Ave
San Francisco, CA 94102 408 626 3186

IN ASSOCIATION WITH:

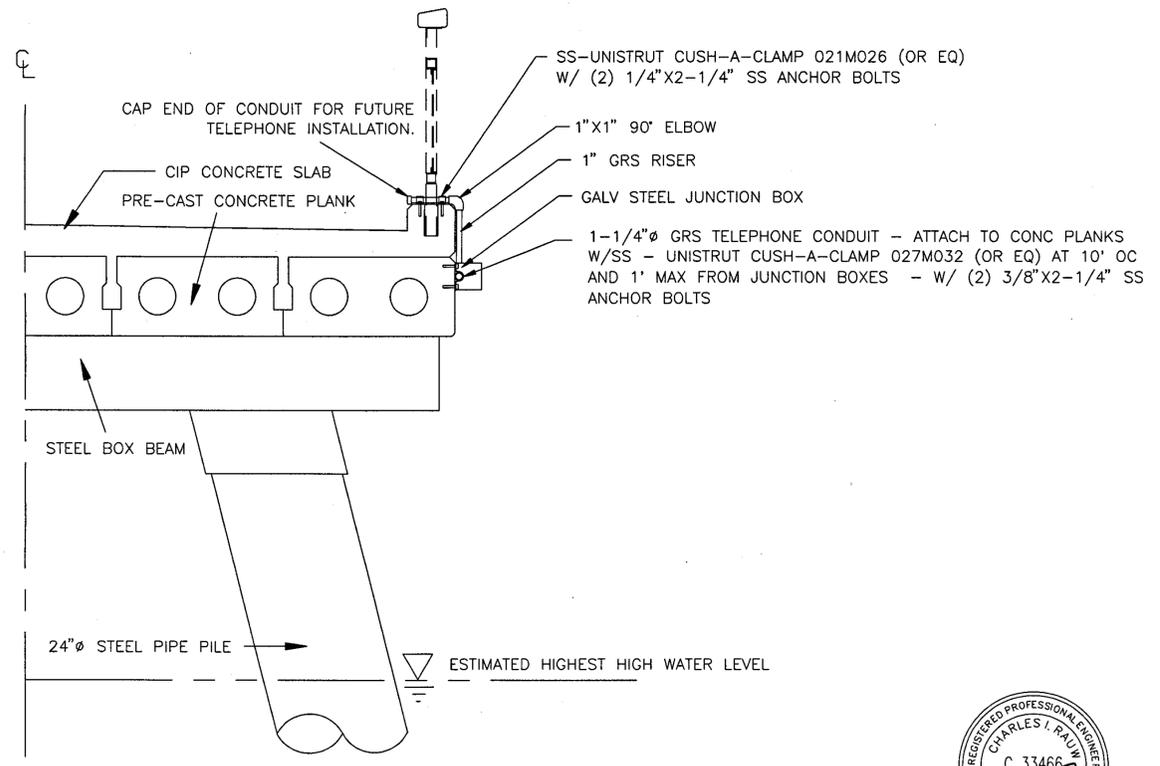


(510) 229-9637

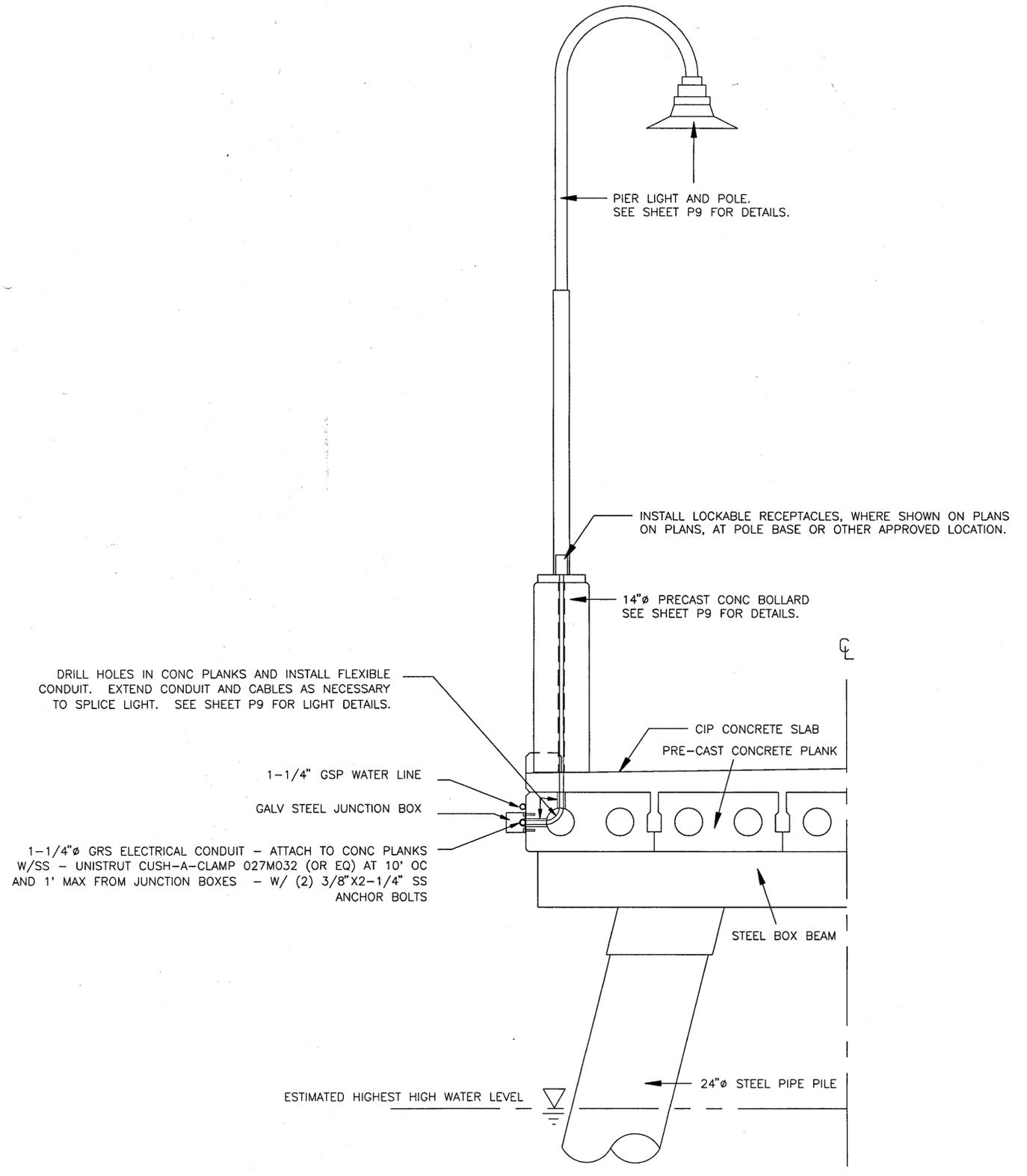
PROJECT ENGINEER:
CHARLES I. RAUW
Consulting Engineers 1505 Ortega Drive, Martinez, CA 94553



1 TYPICAL WATER LINE & HOSE BIBB CONNECTIONS
 P19 SCALE: 3/4" = 1'-0"



2 TYPICAL TELEPHONE CONDUIT CONNECTIONS
 P19 SCALE: 3/4" = 1'-0"



3 TYPICAL ELECTRICAL CONDUIT & ELECTROLIER CONNECTIONS
 P19 SCALE: 3/4" = 1'-0"

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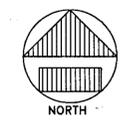
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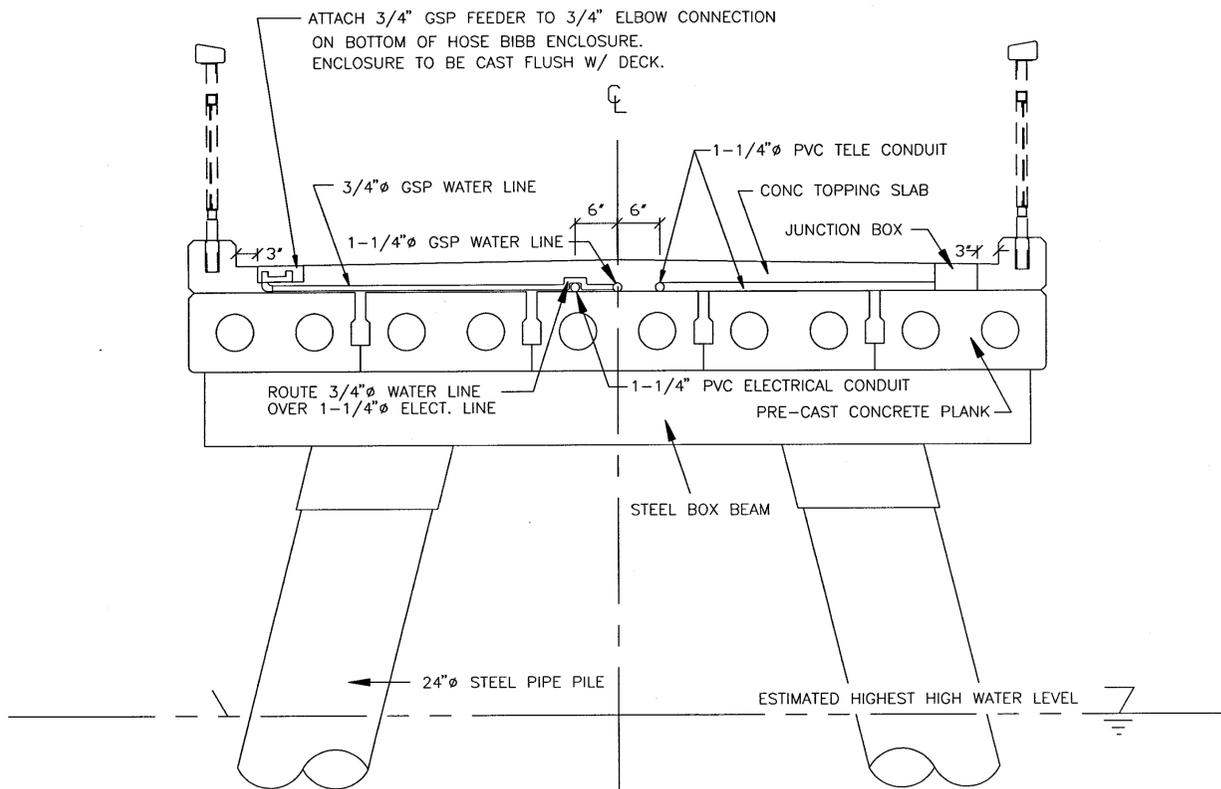
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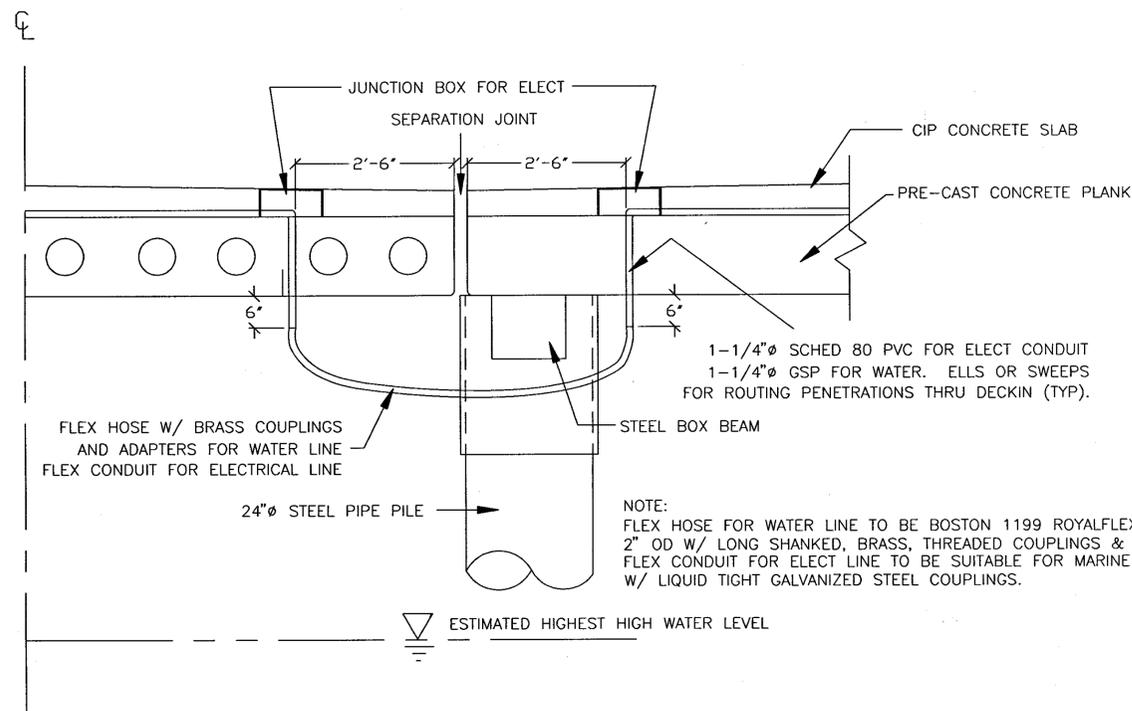
UTILITY DETAILS
 FISHING PIER IMPROVEMENT PLANS
ECKLEY
CARQUINEZ STRAIT REGIONAL SHORELINE
 CONTRA COSTA COUNTY, CALIFORNIA
 PROJECT NO. 9954-2 CONTRACT NO. 05-96-99

SHEET NO.
P19
 OF: 64
 NO:

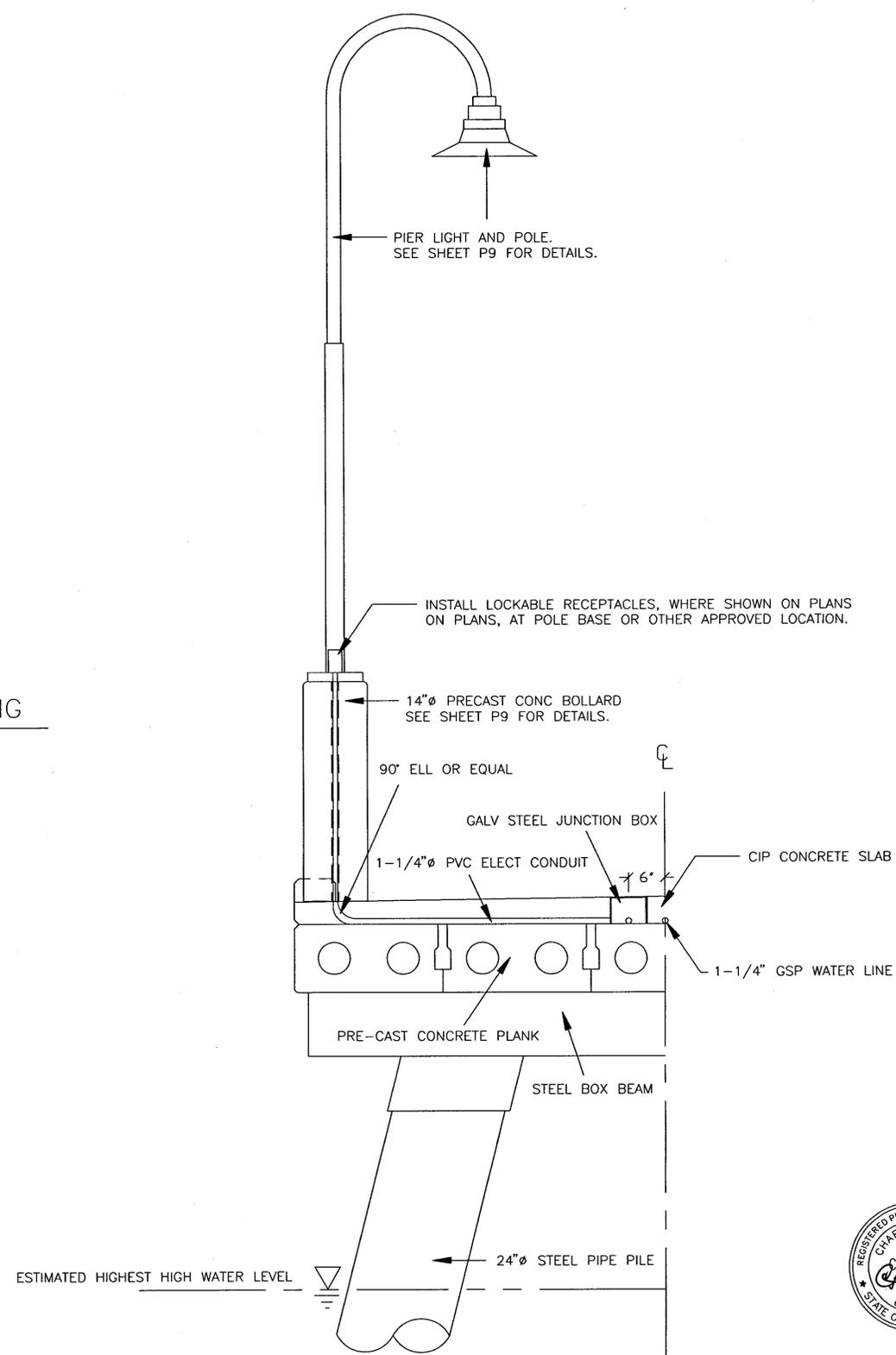
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 (916) 882-0253
 TABER CONSULTANTS
 ENGINEERS and GEOLOGISTS
 536 CALVESTON STREET
 OAKLAND, CA 94612
 (916) 371-1690



1 TYPICAL WATER LINE, HOSE BIBB ENCLOSURE, & TELEPHONE CONDUIT ROUTING
 P19 SCALE: NTS



2 TYPICAL FLEX HOSE CONNECTION AT SEPARATION JOINT
 P19 SCALE: NTS



3 TYPICAL ELECTRICAL CONDUIT & ELECTROLIER CONNECTIONS
 P19 SCALE: NTS



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UTILITY DETAILS
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 CONTRA COSTA COUNTY, CALIFORNIA
 PROJECT NO. 8854-2 CONTRACT NO. 05-96-09

SHEET NO.
P19
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 NO:

PROJECT ENGINEER:
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