Construction

Construction Management Support Services for Avalon Pedestrian Bridge and Promenade Gateway

REQUEST FOR PROPOSALS

THE PORT OF LOS ANGELES

April 29, 2025

RAMP ID #222214

April 29, 2025

Prospective Consultants:

SUBJECT: REQUEST FOR PROPOSALS FOR CONSTRUCTION MANAGEMENT SUPPORT SERVICES FOR AVALON PEDESTRIAN BRIDGE AND PROMENADE GATEWAY

The City of Los Angeles Harbor Department (Harbor Department) invites the submittal of proposals to provide Construction Management Support Services For Avalon Pedestrian Bridge And Promenade Gateway. These services shall commence after a contract is approved by the Board of Harbor Commissioners.

Instructions and forms to be used in preparing the qualifications are found in the information included in the Request for Proposals (RFP).

The schedule for this RFP will be as follows:

Request for Proposals Published	Tuesday, April 29, 2025
Questions Due	Tuesday, May 13, 2025, by 3pm
Responses Posted	Tuesday, May 20, 2025
Proposals Due	Tuesday, June 3, 2025, by 3pm

If your firm cannot agree to the requirements exactly as set forth in this RFP, please do not submit a proposal.

For questions regarding this RFP, please contact Tanisha Herr by email at THerr@portla.org. Questions must be submitted by 3pm, Tuesday, May 13, 2025. Responses will be posted on the Harbor Department's website and the Regional Alliance Marketplace for Procurement (RAMP), at www.rampla.org, on Tuesday, May 20, 2025. It is the responsibility of all proposers to review both websites for any RFP revisions or answers to questions prior to submitting a proposal in order to ensure their proposal is complete and responsive.

In addition to providing information requested in this RFP, it should be noted that there are administrative documents that must be submitted with the proposal. Please refer to the Business Enterprise Programs and Contract Administrative Requirements section of this RFP. **In order for your proposal to be deemed responsive, these documents MUST be included with your proposal.**

All consultants and subconsultants must be registered on RAMP at the time proposals are due. If selected for award, for-profit companies and corporations must comply with RAMP's demographic reporting requirements, per the Mayor's Executive Directive 35.

Sincerely,

Tanisha Herr

Tanisha Herr
Contracts and Purchasing Division

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ATTACHMENTS / EXHIBITS

Attachment 1 – Conceptual Site Plan

Attachment 2 – Project Cost

Attachment 3 – Resource Schedule

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Attachment 5 – Project Specifications (condensed version)

Exhibit A - Affirmative Action Program Provisions

Exhibit B – Small/Very Small Business Enterprise Program

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Exhibit D - Business Tax Registration Certificate (BTRC) Number

Exhibit E - Equal Benefits Ordinance

Exhibit F - RFP Selection Evaluation Form

Exhibit G – City Ethics Commission (CEC) Forms 50 and 55

Exhibit H – Iran Contracting Act of 2010

1. INTRODUCTION

1.1 Brief Overview of the Project

The Construction Division is soliciting proposals from qualified consultants to provide construction management support services for the Avalon Pedestrian Bridge and Promenade Gateway Project. The project will provide public access that improves pedestrian connectivity from the Wilmington Waterfront Park along Harry Bridges Boulevard to the newly completed Wilmington Waterfront Promenade and Banning's Landing Community Center. The proposed project is illustrated in Attachment 1.

The project construction will adhere to Caltrans 2022 Standard Specifications and Harbor Department Construction Division Procedures.

The duration of the contract awarded as a result of this RFP is expected to be 36 months from the date of execution of the agreement.

1.2 The Port of Los Angeles

The Port of Los Angeles is America's Port®, the nation's premier gateway for international commerce and the busiest seaport in the Western Hemisphere. Located in San Pedro Bay, 25 miles south of downtown Los Angeles, the Port encompasses 7,500 acres of land and water along 43 miles of waterfront.

The Port features both passenger and cargo terminals, including cruise, container, automobile, breakbulk, dry and liquid bulk, and warehouse facilities that manage billions of dollars' worth of cargo each year. One of the world's busiest seaports and leading gateway for international trade in North America, the Port of Los Angeles has ranked as the number one container port in the United States each year since 2000. In 2024, the Port handled a total of 10.3 million container units.

The Port of Los Angeles is a department of the City of Los Angeles (also known as the Los Angeles Harbor Department) and is governed by the Los Angeles Board of Harbor Commissioners, a panel appointed by the Mayor of Los Angeles. Although the Port is a City department, it is not supported by City taxes. Operating as a landlord port with more than 200 leaseholders, the Port instead generates its revenues from leasing and shipping service fees. The Port's jurisdiction is limited to the Harbor District, which includes property in San Pedro, Wilmington, and Terminal Island.

2. PROJECT DESCRIPTION

2.1 Project Goals and Objectives

The Avalon Pedestrian Bridge and Promenade Gateway is a public access project that improves pedestrian connectivity from Wilmington to the Waterfront at Banning's Landing Community Center. The project provides pedestrian enhancements, as well as developing neighborhood and regional recreational space along Avalon Boulevard from Harry Bridges Boulevard to the Wilmington Waterfront Promenade. The project is composed of two distinct elements, which are a cable stayed pedestrian bridge and a 12-acre park with an entry plaza, a restroom building, playground equipment and landscaping.

Pedestrian Bridge

The Avalon Pedestrian Bridge will begin at the Southwest corner of the gateway plaza spanning over four railroad tracks and Water Street to connect with the newly completed Wilmington Waterfront Promenade and Banning's Landing Community Center. The bridge will be approximately 1,300 feet long and will provide overhead clearance for existing and future expansion of rail operations. The pedestrian bridge will be in compliance with all applicable American with Disabilities Act (ADA) requirements and applicable building code requirements.

Promenade Gateway

The 12 acres of open public space adjacent to the Avalon Pedestrian Bridge between Harry Bridges Boulevard to the north and the Union Pacific Tracks to the South, is shown in Attachment 1. The Promenade Gateway's western boundary is formed by a line approximately the mid-point between Marine Avenue and Avalon Boulevard, the Eastern border envelopes the Avalon Triangle adjacent to Broad Avenue. The project scope will also vacate the Northern half of Avalon Boulevard and the Eastern half of A street. The design of the open space emulates the environmental and cultural history to create a sense of place, consistent with the overall heritage of the Wilmington Community. The Promenade Gateway consists of visitor-serving amenities including hardscape, such as public seating, bollards, bike racks, public drinking fountains and parking, and landscaping, which complements the Pedestrian Bridge and Wilmington Waterfront Promenade.

The preliminary construction estimate for the Avalon Pedestrian Bridge and Promenade Gateway is $65 million.

2.2 Project Scope of Work

Services to be Performed by Consultant

Consultant shall provide construction management services, administration and coordination for the project specified in herein to facilitate timely and cost-effective completion of the Work. All services in this contract shall be known as "Basic Services" except those specifically described as "Other Services".

In rendering the services required, Consultant shall comply with applicable laws and regulations and include necessary consultations and conferences with personnel of City, County, State, or Federal agencies, which may have jurisdiction over, or have any official interest in the construction of the Project, officers and employees of the City, representatives of Board, the Engineer, the Design Consultant and other entities, in order to determine all relevant requirements for and coordinate the construction of the Project. Changes in laws or regulations which require Consultant to expend significant and substantial additional effort will be the basis for adjustment of Consultant's compensation pursuant to the "Additional Services" provisions of this Agreement.

During construction phases and post-construction phase services, consultant's field office personnel will be provided with offices in on-site field trailers provided by the contractor.

Funds for The Avalon Pedestrian Bridge and Promenade Gateway project are budgeted by Los Angeles County Metropolitan Transit Authority (Measure M), State Port Freight Improvement Program (PFIP), USDOT Reconnecting Communities and Neighborhoods Program (RCN), and Port of Los Angeles Capital Improvement Plan budget.

Task 1 Pre-Construction Services

Task 1.1 Constructability Review

Review the contract documents and determine the adequacy and completeness of the contract documents for both bidding and construction of the project. Review shall consider information from the contract documents, reference documents, geotechnical and other reports, permits and a site inspection. Identify particular risks, including conflicts, errors or omissions in the contract documents, which could impact schedule, cost or quality of the work. Develop a preliminary construction schedule for completing the work within the time required in the contract documents considering interim milestones, phasing, and constraints, and compare them to schedule developed by Design Consultant. Recommend liquidated damages, as appropriate.

Task 1.2 Construction Division Procedures

Obtain from the Engineer and review the latest edition of the Construction Division Procedures Manual. In consultation with the Engineer, determine and document the construction management and administrative procedures and processes to be utilized during the Project, including a document control system and the format of documents to be prepared by Consultant.

Task 1.3 Pre-Bid Meeting

Attend and participate in the meeting, prepare minutes and assist in resolution of issues and questions raised in the meeting.

Task 1.4 Bid Support

Manage and respond to inquiries from potential bidders in conjunction with the Designer and the Engineer.

Task 1.5 Bid Analysis

Review and evaluate bids received to assist in determining which bids are responsive and which bidder is the lowest, responsible bidder to whom an award may be recommended.

Task 1.6 Staffing

Consultant shall be compensated for Pre-Construction Services in Tasks 1.1 through 1.5 on an hourly basis as defined in the Project Cost, Attachment 2. To complete these tasks, Consultant shall provide the following staff:

- Senior Construction Manager – half time or as needed
- Structure Representative/Engineer – half time or as needed
- Field/Office Engineer – half time or as needed
- Document Control/Clerical – half time or as needed

Task 2 Construction Services

Task 2.1 Construction Start-Up

Upon awarding the construction contract and execution of the contract, perform services necessary for the start of construction including, but not limited to, coordinating and conducting initial

scheduling meetings, pre-construction meeting(s), coordination meetings, and safety meetings, if applicable. Monitor and assist in the Contractor's acquisition of photo identification badges for Contractor personnel requiring unescorted access to secure areas. In consultation with the Department and the Contractor, develop and disseminate emergency notification instructions.

Task 2.2 Contractor's Construction Schedule

The Contractor's baseline construction schedule shall show the logical sequencing of construction activities and completion of the Project within the specified time limits. Contract documents generally require the base line schedule to be prepared with Oracle's Primavera P6 v7.0 or later. Consultant shall review the Contractor's construction schedule submittals and make appropriate written comments and recommendations. Schedule submittals review shall include all contractually required deliverables, including baseline schedule, work force, equipment and material resource loading, cash flow curves, and variance reports. Scheduling services shall include, but shall not be limited to, the following:

A. Review Contractor's baseline construction schedule for compliance with contract requirements, number of activities, logic and sequencing, duration of activities, procurement times and submittal review times, critical activities, milestones, and float. Prepare written comments and recommendations, especially regarding any potential omissions, conflicts or delays. Coordinate and conduct a construction scheduling meeting with the Contractor, critical subcontractors and the Engineer to review the construction schedule, comments and recommendations. If required, review the Contractor's baseline schedule re-submittal and make appropriate comments and recommendations until the baseline schedule is accepted by the Engineer.

B. Provide parallel schedules to the Contractor's monthly update schedules based on field observations and weekly (three-week look ahead) schedules. Review other schedule related submittals including workforce, equipment and material resource loading and cash flow projections for coordination with the baseline schedule. Prepare written comments and recommendations.

C. Review the updated or revised construction schedules submitted by Contractor in accordance with the Contract Documents. Based upon the Contractor's weekly schedule submittals, observations of Consultant and information from Daily Inspection Reports, Consultant shall verify actual activity dates and the remaining durations in the updates, and review and analyze forecasts of work force, equipment, and material resources, and cash flow projections. Consultant shall identify modifications and variations from the last approved schedule (logic, activities, durations, etc.) and prepare written comments and recommendations based on the schedule update analysis.

D. In instances where an updating or revision of the construction schedule indicates an actual or potential delay of Project completion, Consultant shall advise the Engineer of available alternatives and, with approval of the Engineer, take appropriate actions. The Consultant shall review and analyze the Contractor's requests for time extensions, the cost of compensable delays, perform "what if' analyses to identify opportunities to mitigate delays, and provide appropriate comments and recommendations to the Engineer. The Consultant shall monitor and review the duration of the individual construction phases and recommend if liquidated damage assessments are warranted.

E. Consultant shall monitor the adequacy of Contractor's equipment and personnel resources, the performance of subcontractors and suppliers, and the availability of materials and supplies in relation to the work projected in the Project schedule forecasts.

Task 2.3 Project Meeting

Consultant shall prepare and distribute meeting notices and agenda, and shall conduct regularly scheduled weekly job meetings with Contractor, Design Consultant's representatives, Department representatives, and such other City and governmental personnel as may be required to advance the timely progress of the Work. In addition, Consultant shall coordinate, conduct, and distribute minutes of other special meetings as required during construction. Consultant shall prepare, review and distribute the minutes of meetings within two working days.

Task 2.4 Change Orders / Authorities for Adjustment

Consultant shall arrange for and process all changes to the construction contract, including estimating costs, performing delay analyses, reviewing Contractor price quotations, negotiating costs, coordination with the Design Consultant, and preparation of change orders and Authorities for Adjustment in accordance with Department standards. Consultant shall also maintain a log and records of all changes.

Task 2.5 Shop Drawings, Materials and Samples

Consultant shall establish and implement procedures for review of shop drawings, materials, samples and other submittals by the Contractor. Consultant shall arrange for and process for review by the Design Consultant, the Department, and other agencies as applicable; all shop drawings, materials, samples, and other submittals by the Contractor. Consultant shall monitor the construction schedule to verify that submittals are made in accordance with the construction schedule, and shall log and track all submittals. Review and processing of submittals is a priority activity. Every effort shall be made to return submittals within two weeks of receipt from Contractor.

Task 2.6 Requests for Information

Consultant shall arrange for and process such drawings and written memoranda as are necessary to either clarify the intent of the Contract Documents, and/or complete the same, between the Contractor, Design Consultant and the Engineer. The Consultant shall log and track all Requests for Information (RFIs) submitted by the Contractor. Review and processing of RFIs is a priority activity. Every effort shall be made to respond to Requests for Information within three days of receipt from Contractor.

Task 2.7 Internet-Based Project Management

The Consultant shall utilize an Internet-based project management system, PMWeb, for this Project. The Department will provide the Consultant access to the system, training, and further assistance if needed. PMWeb will be used to generate, coordinate, manage and transmit submittals, and Requests for Information. Project correspondence shall also be uploaded into PMWeb. Correspondence shall include, but not be limited to:

- Fully executed Authority for Adjustments
- Fully executed Change Orders
- Requests for Quotes
- Meeting Minutes
- Field Memorandums generated by Department's field personnel
- Department Inspector's daily and weekly reports
- Site Photos

- Project Personnel Directory
- Project Drawings and Specifications
- Records of Conversations
- Record Drawings

Such folders and logs will be maintained daily in the field and periodically printed, distributed, and reviewed at weekly meetings.

PMWeb is an Internet-based project management system that provides a single repository for all project information as listed above, which may be expanded to include additional items.

Task 2.8 Other Internet-Based Systems

Consultant may be required to utilize other systems as directed by the Engineer. Such systems shall be provided by the Department.

Task 2.9 Document Control System

Consultant shall maintain a neat, organized filing system for all Project records, including contract document revisions, shop drawings, change orders, requests for information, field memos, contract clarifications, purchase orders, monthly progress payments, Contractor's construction schedules, correspondence and other related documents that are not required to be managed by PMWeb.

Task 2.10 Coordination

The purpose of coordination is to proactively cause the Work to be progressed in an efficient and effective manner in accordance with contract provisions, to anticipate, avoid or mitigate conflicts and adverse impacts, and to minimize the cost of the Work assigned to each entity, including the Department. Coordination for obtaining permits from various agencies for the Project is within the Scope of Work. Consultant shall perform Project coordination with respect to the following entities:

A. Coordination of Project Team
   Los Angeles Harbor Department
   Design Consultants and their associated subconsultants

B. Coordination with Construction Contractor(s)
   Construction Contractor and its subcontractors
   Other contractors on or adjacent to the project site

C. Coordination with other Governmental Agencies
   South Coast Air Quality Management District
   Regional Water Quality Control Board
   City of Los Angeles Department of Building and Safety
   City of Los Angeles Department of Public Works
   California Department of Transportation
   Los Angeles Department of Transportation
   California Fish and Wildlife

D. Coordination with Utilities
   Water, power and telephone providers, petroleum companies
   Other utility owners affected by the construction

E. Coordination with Adjacent Tenants
Adjacent tenants affected by the construction work or with acontractual interest in its completion

Task 2.11 Payment Requests

Consultant shall coordinate with Department Inspection and Contractor in the preparation, review, and recommendation for approval of all monthly progress payment request, including any quantity and cost breakdowns submitted by Contractor per the project specifications.

Task 2.12 Monthly Progress Reports

Consultant shall provide to the Engineer monthly progress reports in a format and on a schedule as Engineer directs. Progress reports shall include, but not be limited to, a description of work completed, cumulative dollar costs incurred, as well as costs since the last progress report, anticipated work for the next reporting period, percentage of work complete, and the expected completion date for remaining work. The report shall identify problem areas and important issues that may affect Project cost and/or schedule. The report shall present actual percentage completion and cash flow versus planned percentage completion and cash flow both numerically and graphically.

Task 2.13 Accounting and Cost Control

Consultant shall monitor Project costs including, but not limited to:

A. Tracking of Contractor's monthly progress payments.
B. Tracking of proposed and final changes to the construction contract.
C. Review Contractor's monthly quantity and cost breakdowns with the Contractor's cost loaded schedule and provide comments and recommendations for the Engineer.
D. Tracking of Contractor's monthly quantities with respect to the approximate quantities in the construction contract.
E. Monitor and segregate costs for state or grant funded elements of Project, if any.
F. Tracking of Contractor's daily time and material sheets to ensure costs of changes do not exceed authorized amounts.

Task 2.14 Daily Log

Consultant shall maintain separate daily log of jobsite events for the park and the bridge.

Task 2.15 Visual Media

Consultant shall compile and maintain an electronic file folder of Project progress and record photos and videos at appropriate times, including those supplied by Contractor(s) and/or other parties. Electronic files shall be stored in formats and file sizes using file-naming conventions deemed appropriate by the Engineer. Consultant will be required to forward files, as directed by the Engineer, at regular intervals, for inclusion into Harbor Department's master (including images and video from other projects) Web-based digital asset management system, and shall assist with cataloguing and categorizing photo and video assets.

Task 2.16 Site Representatives

Consultant shall provide an on-site representative for field visits through all phases of construction. Consultant shall furnish on-site Construction Management staff to assist the Department in monitoring and coordinating the operations and performance of Contractor by reviewing the

sequence of work and directing, with Department approval, actions to mitigate actual or anticipated conflicts, interferences and delays so that Work is accomplished in accordance with the current, approved schedule. Consultant shall assist in resolution of construction problems that may require design changes, modifications, technical interpretations, or other actions. Consultant shall review and monitor Contractor's security and housekeeping practices and shall, with Department approval, coordinate plans for traffic and material flow. Consultant shall prepare responses to correspondence from Contractor, and initiate correspondence as appropriate, for signature by the Engineer.

Task 2.17 Quality Control

Consultant shall review the Contractor's quality control program and provide results of such review to the Department. Consultant shall also notify the Department of any instances of non-compliance with the Contractors quality control program of which the Consultant is aware, or becomes aware. The Consultant shall comply with the Department of Transportation (CALTRANS) requirements as applicable to the Project including but not limited to CALTRANS approval procedures, quality control, and quality assurance. Consultant shall recommend remedial action to correct any unacceptable work of Contractor. Consultant shall also attend the final inspection and shall report the results and make appropriate recommendations to the Department concerning beneficial occupancy of the Project or any part thereof.

Task 2.18 Structure Representative/Engineer

Consultant shall perform quality assurance over Contractor’s work that involves structures and perform the contract’s necessary structure related administrative tasks on all phases of structure construction. Consultant shall review and approve structure related submittals, inspect each stage of structure construction with the Department and the Contractor prior to Department’s acceptance or beneficial occupancy. Consultant attributes/duties to include:

A. Experience in the requirements of the following agencies: Caltrans, City of Los Angeles (including the Harbor Department and the Department of Water and Power);
B. Coordination with the Contractor, Harbor Department’s inspectors, and Engineer to resolve field construction issues;
C. Provide daily SR reports; and
D. Attend project meetings, including but not limited to attending and conducting focused meetings to resolve construction issues, including preparation of meeting minutes and necessary follow-up.

Task 2.19 Environmental Compliance and Stormwater Pollution Prevention Program Coordination

Consultant shall, while reporting to the Project Construction Manager for the Project, be familiar with all environmental compliance (within Project specification) requirements of each contractor and monitor that all compliance measures are met before, during, and after construction. Monitoring includes periodic audits of environmental compliance related- project files and preparation of required documents for eventual submittal to the Harbor Department's Environmental Management Division. In addition, Consultant shall conduct environmental testing (soil, groundwater, etc.), monitoring and observations and prepare reports as required for construction of the Project

Consultant shall, while reporting to the Project Construction Manager for the Project, review the contractor’s Stormwater Pollution Prevention Plan (SWPPP) and provide results of such review to City. The Consultant shall also monitor all SWPPP requirements are met before, during and after construction. Monitoring includes periodic field evaluation of installed Best Management Practices as detailed in the contractor’s SWPPP and audit of the SWPPP document. Consultant shall also notify

the Department of any instances of non-compliance with the SWPPP.

Task 2.20 Claims Management.

Consultant shall assist with the resolution of claims or actions arising during construction. Specifically, Consultant shall:

A. Maintain a potential claim file for any issue which may or will have a potential to result in a claim for additional time or cost;
B. Gather site and other relevant information relating to potential claims or actions including associated correspondence, reports and meeting minutes;
C. Direct and monitor time and materials work in conjunction with Department Inspectors for potential claims or changes to the construction contract;
D. Render assistance to Department regarding any claim made or any litigation or action commenced which relates to construction of the Project including the review and investigation of all claims, and making written recommendation(s) regarding claim disposition; and
E. Assist the Department in negotiating resolution of such claims or actions.

Task 2.21 Specialized Scheduling Services

Consultant shall provide scheduling services necessary to assist with changes to the construction contract and assist with the resolution of claims or actions arising during construction. Specifically, Consultant attributes/duties shall include:

A. Five years or more of scheduling experience;
B. Proficient in P6;
C. Perform delay analyses;
D. Render assistance to the Department regarding any claim made or any litigation or action commenced which relates to construction of the Project including the development of "what if' and "but for" scenarios and schedule analyses where appropriate, and making written recommendation(s) regarding claim disposition;
E. Assist the Department in negotiating resolution of such claims or actions;
F. Provide advanced indications of cost and schedule trends, identifying cost and schedule impact of changes to scope of work;
G. Review Contractor Monthly Schedule Updates, including review of Critical Path Method (CPMs) and contractor cost loading;
H. Maintain Parallel CPM;
I. Reivew Contractor Time Impact Analyses (TIAs);
J. Identify sources of current and potential delays;
K. Identify opportunities for schedule recovery;
L. Attending project meetings, including attending and conducting focused meetings to resolve schedule issues, including preparation of meeting minutes, and necessary follow-up;
M. Generation of scheduling status reports, as requested, such as weekly updates; and
N. Other as needed services deemed necessary by the Harbor Department related to scheduling for the Project.

Task 2.22 Independent Estimating Services

Consultant shall provide estimating services necessary to assist with changes to the construction contract, and with the resolution of claims or actions arising during construction. Specifically, Consultant attributes/duties shall include:

A. Five years or more of estimating experience for Public Works projects;
B. Review and analyze potential changes to the construction contract;
C. Provide independent estimates for proposed changes to the construction contract;
D. Review Contractor price quotations and assist with negotiating costs;
E. Render assistance to the Department regarding any claim made or any litigation or action commenced which relates to construction of the Project including the review and investigation of all claims;
F. Assist the Department in negotiating resolution of such claims or actions;
G. Attending project meetings, including attending and conducting focused meetings to resolve estimating issues, including preparation of meeting minutes and necessary follow-up; and
H. Other as needed services deemed necessary by the Harbor Department related to estimating for the Project.

Task 2.23 Safety Programs

Consultant shall review Contractor's health and safety plan and provide results of such review to City. Consultant shall also notify the Department of any instances of non-compliance with safety programs.. Consultant shall not be required to make safety inspections nor shall Consultant have any responsibility for implementation of Contractor's safety program. Consultant shall have sole responsibility for implementation of its own safety program.

Task 2.24 City Furnished Materials

Consultant shall monitor and assist with the procurement of Department furnished equipment and materials, if any.

Task 2.25 Record Drawings

Consultant shall establish controls for, and monitoring and reporting to the Department on, the maintenance by Contractor of record drawings. The intent of said controls is to ensure the record drawings are maintained on a current basis and to authorize the monthly payment (if any) for maintenance of record drawings in accordance with the Project specifications.

Task 2.26 Staffing

Consultant shall be compensated for Construction Services in Tasks 2.1, 2.3 through 2.18, 2.24, and 2.25 in Fixed Fee amounts as defined in the Project Cost, Attachment 2. To complete these tasks, Consultant shall provide the following staff:

- Senior Construction Manager – Full time
- Structure Representative/Engineer – Full time
- Field/Office Engineer – Full time
- Document Control/Clerical – Full time

Task 3 Post Construction Services

Task 3.1 Project Close-Out Administration

Consultant shall provide construction contract closeout services and obtain, coordinate and transmit to the Department, Contractor-provided information such as guarantees, warranties, certifications, final permits, Record Drawings, releases, affidavits, operation and maintenance

manuals and other items required by the Contract Documents. Consultant shall review preliminary and final punch lists prepared by the Design Consultant and/or Inspection and shall coordinate with the Contractor to complete all items. Consultant shall:

A. Coordinate, schedule and participate in a final inspection of the Project;
B. Schedule and coordinate all start-up and commissioning of equipment, including, but not limited to:
    1. coordinate pre-start-up meeting with Contractor, Design Consultant and Department staff to confirm equipment is ready for testing/operation and the Contractor's plan for start-up,
    2. observe, with the Design Consultant and Inspection, the field testing and adjustment of equipment,
    3. ensure equipment operation and maintenance manuals have been submitted by the Contractor and accepted by the Engineer and Department operations and maintenance personnel,
    4. coordinate instruction sessions for Department and/or tenant personnel in proper operation and maintenance of equipment, and,
    5. If specialized maintenance is required, ensure that necessary maintenance contracts are in place to support start of operations;
C. Make recommendations that may be beneficial to the Department during the initial operating period;
D. Negotiate final Authorities for Adjustment and obtain subcontractor releases.
E. Obtain and verify the completeness of the Contractor's recorddrawings and transmit them to the Department;
F. Perform warranty administration for warranty issues raised by operations and maintenance personnel; and
G. Upon completion and acceptance of the Project, deliver to the Department computer hardware/software and other equipment purchased through this Agreement and all Project documents and records, both in hard copy and electronic formats.

Task 3.2 Post-Mortem Report

In conjunction with the Engineer, coordinate a meeting with key team members, including the Design Consultant and Contractor, to identify particular problems, challenges and successes during the construction phase of the Project. Prepare a report of the findings and any recommendations regarding changes to policies and procedures to improve future performance.

Task 3.3 Staffing

Consultant shall be compensated for Post-Construction Services in Tasks 3.1 & 3.2 on an hourly basis as defined in the Project Cost, Attachment 2. To complete these tasks, Consultant shall provide the following staff:

- Senior Construction Manager – Full time or as needed
- Structure Representative/Engineer - Full time or as needed
- Field/Office Engineer – Full time or as needed
- Document Control/Clerical – Full time or as needed

Task 4 Other Services

The Engineer may require Consultant to perform optional services, as noted herein.

Payment to Consultant for such optional services shall be as defined in the Project Cost, Attachment 2. Such services shall include, but not be limited to:

Task 4.1 Public Outreach Services

Provide Public Outreach services, as directed by the Engineer. Tasks may include, but not be limited to, organizing, sponsoring, and facilitating community and stakeholder meetings, construction alert coordination and notifications, development and distribution of project information material and project hotline and website support.

Task 4.2 Partnering Facilitation Services

Organize, sponsor and facilitate Partnering workshops, executive sessions, follow-up sessions and evaluation sessions with selected Department, Consultant and Contractor staff.

Task 4.3 Quality Assurance Services

Provide acceptance testing, source inspection, and quality assurance services for work under CALTRANS Standard Specifications, as directed by the Engineer. Consultant will be used on an as needed/as directed basis.

Consultant's scope of work may include, but not limited to, the following tasks on an as needed/as directed basis:

A. As needed source inspection and quality assurance services for materials, potentially including, but not limited to:
   i) Stay Cable Brackets
      a. Provide in process weld inspection
      b. Sampling/testing, non-destructive testing
   ii) Stay Cable Strands
      a. Witness Production and witness testing
   iii) Rotating Fork Sockets
      a. Provide sample/testing, on destructive testing
B. As needed quality assurance testing, potentially including, but not limited to:
   i) Reinforcement steel mechanical splices for bars and headed bars
   ii) Concrete Aggregate
   iii) Pre-stress strand
   iv) Other structural elements
C. As needed facility audits for verifying quality control procedures.
D. As needed non-destructive testing of constructed bridge elements.
E. As needed services in support of Project quality assurance, testing, and inspection.

Task 4.4 Additional As-Needed Services

Provide other additional as-needed services for this Project, or other Department projects, as directed by the Engineer.

2.3 Schedule of Work

Following the first Notice to Proceed, the Consultant shall complete the Scope of Work as described in Section 2.2 for each phase of the project according to the following schedule:

- Pre-Construction Services: 2 months
- Construction Services: 30 months
- Post-Construction Services: 4 months
- Total Contract Duration: 36 months

3. PROPOSAL REQUIREMENTS

3.1 Proposal Questions

All questions regarding this RFP must be submitted, in writing, exclusively to Tanisha Herr, the Contract Administrator, at THerr@portla.org by no later than 3 p.m. on Tuesday, May 13, 2025.

Attempts to contact any other Harbor Department employee or members of the Board of Harbor Commissioners, either directly or through third-parties acting for or on the proposer's behalf, may be presumed to constitute efforts to bias or influence the competitive process with information not detailed in the RFP and not available on an equal basis to all proposers. Accordingly, such attempts shall constitute grounds to disqualify the proposer undertaking them. Any information provided by the Contract Administrator to one proposer in response to questions shall be provided to all proposers.

3.2 Proposal Submission

Proposals shall be no longer than 50 pages, typed in a minimum 12-point font size. One (1) digital copy of your proposal, as one complete file in .pdf format, must be submitted on or before 3:00 p.m. on Tuesday, June 3, 2025 to Tanisha Herr at Therr@portla.org.

Proposers solely are responsible for the timeliness of their submittals. As such, proposers are cautioned to budget adequate time to ensure that their proposals are delivered before the deadline set forth above.

By submitting a proposal, proposers certify that such proposal constitutes their full and complete written response to the RFP and evidences their acknowledgement that additional written material outside of such proposal shall not be considered by the City in connection with this RFP, unless the City provides a written request that they submit additional written materials. Absent such written request, proposers are instructed to not submit to the City written or other materials outside of the proposal, either in a subsequent interview or otherwise.

3.3 Evaluation Process and Selection Criteria

All proposals meeting the requirements of this RFP shall be reviewed and rated by an evaluation committee according to the following criteria: 1) firm qualifications, experience, and references; 2) project organization, personnel, and staffing; 3) project approach, work plan, and management; 4) rates, fees, and budget control; and 5) clarity and comprehensiveness of the proposal. See Exhibit F.

Selected proposers may be contacted to arrange in-person interviews with the evaluation committee. The evaluation committee will make the final recommendation for selecting the consultant. All recommendations are subject to the approval of the Director of Chief Harbor Engineer, the Executive Director of the Harbor Department, and the Board of Harbor Commissioners.

Proposers are advised that all documentation submitted in response to this RFP will be considered property of the Harbor Department and may become available to the public as a public record and be released without further notification. Any information that the proposer considers confidential should not be submitted with the proposal.

The right to reject any and all proposals shall, in every case, be reserved, as shall the right to waive any informality in the proposal when to do so would be to the advantage of the City.

3.4 Proposal Content

The following items shall be included in your proposal:

1. Cover Transmittal Letter

Provide a narrative which introduces the firm and team highlighting the special strengths of the firm to perform the work requested in this RFP. The letter should be signed by an authorized principal of the proposing consulting firm.

2. Firm Qualifications, Experience and References

Provide a narrative describing the firm's qualifications to perform the project work, including past (relevant) experience and at least three client references, with contact names and information. Include information regarding your firm's experience involving the size and level of complexity of the proposed project. Qualifications and experience for proposed subconsultants should also be included.

Identify any members of your proposed team, including proposer's firm and any subconsultant firms, who are former Commissioners, officers or employees of the Harbor Department. Provide their name, proposed team position, and their past position and years of employment/appointment with the Department. If your proposed team does not have any such members, please include a statement in your proposal so stating.

Proposers are advised that it is a proposer's obligation to determine whether any conflicts of interest exist for their team members and the extent to which those conflicts need to be resolved or disclosed prior to engaging in business with the Department.

3. Project Organization, Personnel and Staffing

Provide a brief description of all key personnel and technical staff (including vendors, partners or subconsultants) to be involved and their relationship to the services to be provided.

- ☐ Include names, titles, licenses, certificates, fields of expertise, and relevant experience for all proposed personnel and staff.
- ☐ Identify the Project Manager for the proposed services.
- ☐ Complete resumes should be provided as part of an appendix to the proposal.
- ☐ Provide a project organization chart which depicts the organization of the project team, including reporting relationships to the Department's Project Manager and supervision of project team staff.
- ☐ Indicate the on-site availability for project manager as well as other staff during the lifetime of the project.

4. Project Approach and Work Plan

Provide a narrative which shows your firm's understanding of the project's requirements and documents a logical technical approach to the project scope of work. Include a general work plan as well as the proposed approach to undertaking the scope of work described earlier in this RFP.

- ☐ Using the scope of work presented in this RFP, propose a work plan detailing major tasks and subtasks and the work to be conducted in each.
- ☐ If specific project team members or vendors are critical to specific tasks, identify where they will be utilized and/or committed.
- ☐ Include the results and deliverables expected from each major task.
- ☐ Identify appropriate assumptions and considerations that could impact the scope and timeline for completing each task.
- ☐ Discuss how quality, cost and schedule will be monitored for compliance with the construction contract.
- ☐ Identify any key issues that may impact construction activities.
- ☐ Provide a detailed equipment list for each area with associated costs.

5. Project Management

Describe how your firm intends to manage all aspects of the work to be performed, including schedules for completion of tasks/subtasks, procedures for scheduling and cost control. The Project management proposal must include:

- ☐ Project kick off meeting
- ☐ Regularly scheduled project team meetings
- ☐ Written progress reports
- ☐ Issue/risk management techniques

6. Cost

Provide pricing and cost information for the project. Include hourly rates for all proposed team members. Also provide pricing for any proposed equipment, software, or hardware costs and any other related expenses for the project. Discuss any budget control measures of your firm and proposed subconsultants.

Complete Attachment 2 – Method of Compensation and Attachment 3 – Resource Schedule and submit them with your proposal.

7. Business Enterprise Programs and Contract Administrative Requirements

In order for your proposal to be deemed responsive, the following documents <u>MUST</u> be included with your proposal:

A) SMALL/VERY SMALL BUSINESS ENTERPRISE PROGRAM (EXHIBIT B)

Provide with your proposal the Small/Very Small Business Enterprise and Local Business Preference Programs Affidavit and Consultant Description forms (Exhibit B), fully filled out for your firm and any proposed subconsultants. Please refer to Exhibit B for detailed information relative to these programs and instructions on completing the forms.

The **<u>mandatory</u>** Small Business Enterprise (SBE) participation will be 25%, including 5% Very Small Business Enterprise (VSBE) participation. **Proposers who fail to demonstrate that they will meet or exceed the SBE requirements will be deemed non-responsive.** In order to ensure the highest participation of SBEs, VSBEs, Minority Business Enterprises, Women Business Enterprises,

and Disabled Veteran Business Enterprises, all proposers shall utilize the RAMP to outreach to potential subconsultants.

Firms must be certified as SBEs or Very Small Business Enterprises (VSBE) through RAMP at the time proposals are due. **Firms will only receive credit for SBE/VSBE certifications reflected on their RAMP profile.** Firms may certify as SBE (Proprietary) and VSBE (Harbor) by completing the SBE (Proprietary) application (Exhibit C). Please refer to the Road Map in Exhibit C for a listing of agency certifications that may be accepted in lieu of completing the application. For VSBE certification, you must complete the application or be certified as a Micro-business through the State of California Department of General Services (DGS). If your firm is certified by one of the listed agencies, you must complete the instructions in the application in regards to obtaining certification on RAMP. Applications should be mailed to the following address referencing the RFP:

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
Bureau of Contract Administration
Office of Contract Compliance – Centralized Certification Administration
1149 S. Broadway, Ste. 300
Los Angeles, CA 90015

B) INSURANCE VERIFICATION LETTER

Provide a letter from your firm indicating that the insurance requirements for this project as described in this RFP are presently part of your insurance coverage, or that your firm will be able to obtain such coverage should you be selected for award. The proposer must be aware of the indemnification requirements also set forth in this RFP. Proposers are not required to purchase the required insurance in order to respond; however, all required insurance will need to be submitted at the time of contract award. **ACORD® Certificate of Liability Insurance sheets submitted alone, without also including an insurance verification letter, will not be accepted. Proposals submitted without an insurance verification letter, as described above, will be deemed non-responsive.**

C) CITY ETHICS COMMISSION (CEC) FORMS 50 and 55

Proposers who submit a response to this solicitation (proposers) are subject to Charter section 470 (c) (12) and related ordinances. As a result, proposers may not make campaign contributions to and or engage in fundraising for certain elected City officials or candidates for elected City office from the time they submit the response until either the contract is approved or, for successful proposers, 12 months after the contract is signed. The proposer's principals and subcontractors performing $100,000 or more in work on the contract, as well as the principals of those subcontractors, are also subject to the same limitations on campaign contributions and fundraising.

Proposers must submit CEC Forms 50 and 55 to the awarding authority at the same time the response is submitted (See Exhibit G). The forms require proposers to identify their principals, their subcontractors performing $100,000 or more in work on the contract, and the principals of those subcontractors. Proposers must also notify their principals and subcontractors in writing of the restrictions and include the notice in contracts with subcontractors. Responses submitted without completed CEC Forms 50 and 55 may be deemed non-responsive. Proposers who fail to comply with City law may be subject to penalties, termination of contract, and debarment. Additional information regarding these restrictions and requirements may be obtained from the City Ethics Commission at (213) 978-1960 or ethics.lacity.org.

D) IRAN CONTRACTING ACT OF 2010

In accordance with California Public Contract Code Sections 2200-2208, all proposers submitting proposals for, entering into, or renewing contracts with the Harbor Department for goods and services estimated at $1,000,000 or more are required to complete, sign, and submit the Iran Contracting Act of 2010 Compliance Affidavit (See Exhibit H).

E) ACCEPTANCE OF STANDARD CONTRACT PROVISIONS AND EXECUTIVE DIRECTIVE 35

Proposers are advised that pursuant to Executive Directive (ED) 35, if your firm is a for-profit company or corporation and is selected for award, you shall, within 30 days of the effective date of the contract and on an annual basis thereafter (i.e., within 30 days of the anniversary of the effective date of the contract), report the following information to the City via the Regional Alliance Marketplace for Procurement (RAMP) or via another method specified by the City:

- Annual revenue
- Number of employees
- Location
- Industry
- Race/ethnicity and gender of majority owner

On an annual basis, the consultant shall further request that any subconsultant input or update its business profile, with the above information, on RAMP or via another method prescribed by City.

Proposers must submit a signed letter confirming their intention to comply with the RAMP demographic reporting requirements of ED 35, and their firm's acceptance of all of the Standard Contract Provisions exactly as set forth in Section 4. Do not submit your demographic information in the letter; only the selected consultant needs to enter that information into RAMP, after contract award.

3.5 Checklist for RFP Submittal Requirements

A checklist is provided to assist in verification that all elements of the RFP have been addressed. However, firms are encouraged to review the entirety of the RFP, including the Standard Contract Provisions section, to ensure full compliance and not rely solely on this checklist.

- ☐ Cover transmittal letter, signed by an authorized principal of the proposing consulting firm.
- ☐ Table of Contents, if included (not required).
- ☐ Proposal with the following sections, in order:
  - Firm Qualifications, Experience and References
  - Project Organization, Personnel and Staffing
  - Project Approach and Work Plan
  - Project Management
  - Cost
- ☐ Attachment 2 – Method of Compensation
- ☐ Attachment 3 – Resource Schedule
- ☐ Resumes for all proposed staff personnel provided in an appendix.
- ☐ Small/Very Small Business Enterprise Program forms:
  - Affidavit of Company Status (**Prime**)
  - Consultant Description Form (**Prime and any subconsultants**)
- ☐ Letter from your firm indicating your ability to meet the insurance requirements for this project as described in Section 4.4 of the RFP. **Do not submit an ACORD® Certificate of Liability Insurance sheet alone; it must be submitted with an insurance verification letter.**
- ☐ CEC Form 50 (Bidder Certification)
- ☐ CEC Form 55 (Prohibited Contributors (Bidders))
- ☐ Iran Contracting Act of 2010 Compliance Affidavit
- ☐ Letter of acceptance of Standard Contract Provisions and Executive Directive 35

4. STANDARD CONTRACT PROVISIONS

The following sections are standard contract provisions for the Harbor Department. In submitting a proposal, proposer agrees to accept these terms without change. **If your firm cannot agree to the following requirements, exactly as set forth below, please do not submit a proposal.**

4.1 Affirmative Action

Consultant, during the performance of the Agreement, shall not discriminate in its employment practices against any employee or applicant for employment because of the employee's or applicant's race, religion, national origin, ancestry, sex, age, sexual orientation, disability, marital status, domestic partner status, or medical condition. The provisions of Section 10.8.4 of the Los Angeles Administrative Code shall be incorporated and made a part of the agreement. All subcontracts awarded shall contain a like nondiscrimination provision. See Exhibit A.

4.2 Small/Very Small Business Enterprise Program and Local Business Preference Programs

It is the policy of the Department to provide Small Business Enterprises (SBE), Very Small Business Enterprises (VSBE), Minority-Owned, Women-Owned, Disabled Veteran-Owned and all Other Business Enterprises (MBE/WBE/DVBE/OBE) an equal opportunity to participate in the performance of all City contracts in all areas where such contracts afford such participation opportunities. Consultant shall assist the City in implementing this policy and shall use its best efforts to afford the opportunity for SBEs, VSBEs, MBEs, WBEs, DVBEs, and OBEs to achieve participation in subcontracts where such participation opportunities present themselves and attempt to ensure that all available business enterprises, including SBEs, VSBEs, MBEs, WBEs, DVBEs, and OBEs, have equal participation opportunity which might be presented under this Agreement. See Exhibit B.

It is also the policy of the Department to support an increase in local and regional jobs. The Department's Local Business Preference Program aims to benefit the Southern California region by increasing jobs and expenditures within the local and regional private sector. Consultant shall assist the City in implementing this policy and shall use its best efforts to afford the opportunity for Local Business Enterprises to achieve participation in subcontracts where such participation opportunities present themselves. See Exhibit B.

NOTE: Prior to being awarded a contract with the Harbor Department, all consultants and subconsultants must be registered on the City's Contracts Management and Opportunities Database, Regional Alliance Marketplace for Procurement (RAMP), at http://www.RAMPLA.org. Consultant shall comply with all RAMP reporting requirements set forth in Executive Directive No. 35 (August 25, 2022), Equitable Access to Contracting Opportunities, during the term of this Agreement.

4.3 Business Tax Registration Certificate

The City of Los Angeles, Office of Finance requires the implementation and enforcement of Los Angeles Municipal Code Section 21.09 et seq. This section provides that every person, other than a municipal employee, who engages in any business within the City of Los Angeles, is required to obtain the necessary Business Tax Registration Certificate and pay business taxes. The City Controller has determined that this Code Section applies to consulting firms that are doing work for the Los Angeles Harbor Department. See Exhibit D.

4.4 Indemnity and Insurance Requirements

REQUIRED AT PROPOSAL STAGE: A letter from each proposer must be provided with their proposal. The letter should indicate that the requirements below are presently part of the proposer's insurance coverage or that the proposer will be able to obtain such coverage should they be selected for award. The proposer must be aware of the indemnification requirements below. Proposers are not required to purchase the required insurance in order to respond; however, all required insurance will need to be submitted at the time of contract award. **ACORD® certificates submitted without an insurance verification letter will not be accepted.**

1. Indemnification

Except for the sole negligence or willful misconduct of the City, or any of its Boards, Officers, Agents, Employees, Assigns and Successors in Interest, Contractor undertakes and agrees to defend, indemnify and hold harmless the City and any of its Boards, Officers, Agents, Employees, Assigns, and Successors in Interest from and against all suits and causes of action, claims, losses, demands and expenses, including, but not limited to, attorney's fees (both in house and outside counsel) and cost of litigation (including all actual litigation costs incurred by the City, including but not limited to, costs of experts and consultants), damages or liability of any nature whatsoever, for death or injury to any person, including Contractor's employees and agents, or damage or destruction of any property of either party hereto or of third parties, arising in any manner by reason of the negligent acts, errors, omissions or willful misconduct incident to the performance of this Contract by Contractor or its subcontractors of any tier. Rights and remedies available to the City under this provision are cumulative of those provided for elsewhere in this Contract and those allowed under the laws of the United States, the State of California, and the City.

2. Acceptable Evidence and Approval of Insurance

Electronic submission is the required method of submitting insurance documents. Consultant's insurance broker or agent shall register with the City's online insurance compliance system **KwikComply** at http://kwikcomply.org and follow the instructions to register and submit the appropriate proof of insurance on Consultant's behalf.

Carrier Requirements

All insurance which Consultant is required to provide pursuant to this Agreement shall be placed with insurance carriers authorized to do business in the State of California and which are rated A-, VII or better in Best's Insurance Guide. Carriers without a Best's rating shall meet comparable standards in another rating service acceptable to City.

Primary Coverage

The coverages submitted must be primary with respect to any insurance or self insurance of the City of Los Angeles Harbor Department. The City of Los Angeles Harbor Department's program shall be excess of this insurance and non-contributing.

Notice Of Cancellation

For each insurance policy described below, the Consultant shall give the Board of Harbor Commissioners a 10-days prior notice of cancellation or reduction in coverage for nonpayment of premium, and a 30-days prior notice of cancellation or reduction in coverage for any other reason, by written notice via registered mail and addressed to the City of Los Angeles Harbor Department, Attention Risk Manager and the City Attorney's Office, 425 S. Palos Verdes Street, San Pedro,

California 90731.

Modification of Coverage

Executive Director, at his or her discretion, based upon recommendation of independent insurance consultants to City, may increase or decrease amounts an types of insurance coverage required hereunder at any time during the term hereof by giving ninety (90) days' written notice to Consultant.

Renewal of Policies

At least thirty (30) days prior to the expiration of any policy, Consultant shall direct their insurance broker or agent to submit to the City's online insurance compliance system **KwikComply** at http://kwikcomply.org a renewal certificate showing that the policy has been renewed or extended or, if new insurance has been obtained, evidence of insurance as specified below. If Consultant neglects or fails to secure or maintain the insurance required below, Executive Director may, at his or her own option but without any obligation, obtain such insurance to protect the City's interests. The cost of such insurance will be deducted from the next payment due Consultant.

Policy Copies

Upon request by City, Consultant shall furnish a copy of the binder of insurance and/or full certified policy for any insurance policy required herein. This requirement shall survive the termination or expiration of this Agreement.

Limits of Coverage

If the Consultant maintains higher limits than the minimums shown below, City requires and shall be entitled to coverage for the higher limits maintained by the Consultant. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to City.

Right to Self-Insure

Upon written approval by Executive Director, Consultant may self-insure if the following conditions are met:

a. Consultant has a formal self-insurance program in place prior to execution of this Agreement. If a corporation, Consultant must have a formal resolution of its board of directors authorizing self-insurance.

b. Consultant agrees to protect the City, its boards, officers, agents and employees at the same level as would be provided by full insurance with respect to types of coverage and minimum limits of liability required by this Agreement.

c. Consultant agrees to defend the City, its boards, officers, agents and employees in any lawsuit that would otherwise be defended by an insurance carrier.

d. Consultant agrees that any insurance carried by Department is excess of Consultant's self-insurance and will not contribute to it.

e. Consultant provides the name and address of its claims administrator.

f. Consultant submits its most recently filed 10-Q and its 10-K or audited annual financial statements for the three most recent fiscal years prior to the Executive Director's consideration of approval of self-insurance and annually thereafter.

g. Consultant agrees to inform Department in writing immediately of any change in its status or policy which would materially affect the protection afforded Department by this self-insurance.

h. Consultant has complied with all laws pertaining to self-insurance.

Insurance

In addition to and not as a substitute for, or limitation of, any of the indemnity obligations imposed by [Indemnification Section Above], Consultant shall procure and maintain at its sole cost and expense and keep in force during the term of this Agreement the following insurance:

3. General Liability Insurance

Consultant shall procure and maintain in effect throughout the term of this Agreement, without requiring additional compensation from the City, commercial general liability insurance covering personal and advertising injury, bodily injury, and property damage providing contractual liability, independent contractors, products and completed operations, and premises/operations coverage written by an insurance company authorized to do business in the State of California rated VII, A- or better in Best's Insurance Guide (or an alternate guide acceptable to City if Best's is not available) within Consultant's normal limits of liability but not less than One Million Dollars ($1,000,000) combined single limit for injury or claim. Where Consultant provides or dispenses alcoholic beverages, Host Liquor Liability coverage shall be provided as above. Where Consultant provides pyrotechnics, Pyrotechnics Liability shall be provided as above. Said limits shall provide first dollar coverage except that Executive Director may permit a self-insured retention or self-insurance in those cases where, in his or her judgment, such retention or self-insurance is justified by the net worth of Consultant. The retention or self-insurance provided shall provide that any other insurance maintained by Department shall be excess of Consultant's insurance and shall not contribute to it. In all cases, regardless of any deductible or retention, said insurance shall contain a defense of suits provision and a severability of interest clause. Additionally, each policy shall include an additional insured endorsement (CG 2010 or equivalent) naming the City of Los Angeles Harbor Department, its officers, agents and employees as Primary additional insureds.

Where Consultant's operations involve work within 50 feet of railroad track, Consultant's Commercial General Liability coverage shall also have the railroad exclusion deleted.

4. Automobile Liability Insurance

Consultant shall procure and maintain at its expense and keep in force at all times during the term of this Agreement, automobile liability insurance written by an insurance company authorized to do business in the State of California rated VII, A- or better in Best's Insurance Guide (or an alternate guide acceptable to City if Best's is not available) within Consultant's normal limits of liability but not less than One Million Dollars ($1,000,000) covering damages, injuries or death resulting from each accident or claim arising out of any one claim or accident. Said insurance shall protect against claims arising from actions or operations of the insured, or by its employees. Coverage shall contain a defense of suits provision. Additionally, each policy shall include an additional insured endorsement (CG 2010 or equivalent) naming the City of Los Angeles Harbor Department, its officers, agents and employees as Primary additional insureds.

5. Workers' Compensation and Employer's Liability

Where applicable, Consultant shall comply with 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, and that the Consultant shall comply with such provisions before commencing the performance of the tasks under this Agreement. Coverage for claims under U.S. Longshore and Harbor Workers' Compensation Act, if required under applicable law, shall be included. Consultant shall submit Workers' Compensation policies whether underwritten by the state insurance fund or private carrier, which provide that the public or private carrier waives it right of subrogation against the City in any circumstance in which it is alleged that actions or omissions of the City contributed to the accident. Such worker's compensation and occupational disease requirements shall include coverage for all employees of Consultant, and for all employees of any subcontractor or other vendor retained by Consultant.

6. Professional Liability Insurance

Consultant is required to provide Professional Liability insurance with respect to negligent or wrongful acts, errors or omissions, or failure to render services in connection with the professional services to be provided under this "Agreement". This insurance shall protect against claims arising from professional services of the insured, or by its employees, agents, or contractors, and includes coverage (or no exclusion) for contractual liability. Consultant certifies that it now has professional liability insurance in the amount of One Million Dollars ($1,000,000), which covers work to be performed pursuant to this Agreement and that it will keep such insurance or its equivalent in effect at all times during performance of said Agreement and until two (2) years following the completed term of the agreement. Notice of occurrences of claims under the policy shall be made to the City Attorney's office with copies to Risk Management.

4.5 Conflict of Interest

It is hereby understood and agreed that the parties to this Agreement have read and are aware of the provisions of Section 1090 et seq. and Section 87100 et seq. of the California Government Code relating to conflict of interest of public officers and employees, as well as the Los Angeles Municipal Code (LAMC) Municipal Ethics and Conflict of Interest provisions of Section 49.5.1 et seq. and the Conflict of Interest Codes of the City and Department. All parties hereto agree that they are unaware of any financial or economic interest of any public officer or employee of City relating to this Agreement. Notwithstanding any other provision of this Agreement, it is further understood and agreed that if such financial interest does exist at the inception of this Agreement, City may immediately terminate this Agreement by giving written notice thereof.

During the term of this Agreement, Consultant shall inform the Department when Consultant, or any of its Subconsultants, employs or hires in any capacity, and for any length of time, a person who has worked for the Department as a Commissioner, officer or employee. Said notice shall include the individual's name and current position and their prior position and years of employment with the Department. Notice shall be provided by Consultant to the Department within thirty (30) days of the employment or hiring of the individual.

4.6 Compliance with Applicable Laws

Consultant shall at all times in the performance of its obligations comply with all applicable laws, statutes, ordinances, rules and regulations, and with the reasonable requests and directions of the Executive Director.

4.7 Governing Law / Venue

This Agreement shall be governed by and construed in accordance with the laws of the State of California, without reference to the conflicts of law, rules and principles of such State. The parties agree that all actions or proceedings arising in connection with this Agreement shall be tried and litigated exclusively in the State or Federal courts located in the County of Los Angeles, State of California, in the judicial district required by court rules.

4.8 Termination Provision

The Board of Harbor Commissioners, in its sole discretion, shall be able to terminate and cancel all or any part of the Agreement it enters into with the selected Consultant for any reason upon giving the Consultant ten (10) days' notice in writing of its election to cancel and terminate the Agreement. It is agreed that any Agreement entered into shall not limit the right of the City to hire additional Consultants to perform the services described in the Agreement either during or after the term of the Agreement.

4.9 Proprietary Information

1. Writings, as that term is defined in Section 250 of the California Evidence Code (including, without limitation, drawings, specifications, estimates, reports, records, reference material, data, charts, documents, renderings, computations, computer tapes or disks, submittals and other items of any type whatsoever, whether in the form of writing, figures or delineations), which are obtained, generated, compiled or derived in connection with this Agreement (collectively hereafter referred to as "property"), are owned by City as soon as they are developed, whether in draft or final form. City has the right to use or permit the use of property and any ideas or methods represented by such property for any purpose and at any time without compensation other than that provided in this Agreement. Consultant hereby warrants and represents that City at all times owns rights provided for in this section free and clear of all third-party claims whether presently existing or arising in the future, whether or not presently known. Consultant need not obtain for City the right to use any idea, design, method, material, equipment or other matter which is the subject of a valid patent, unless such patent is owned by Consultant or one of its employees, or its Subconsultant or the Subconsultant's employees, in which case such right shall be obtained without additional compensation. Whether or not Consultant's initial proposal or proposals made during this Agreement are accepted by City, it is agreed that all information of any nature whatsoever connected with the Scope of Work, regardless of the form of communication, which has been or may be given by Consultant, its Subconsultants or on either's behalf, whether prior or subsequent to this Agreement becoming effective, to the City, its boards, officers, agents or employees, is not given in confidence. Accordingly, City or its designees may use or disclose such information without liability of any kind, except as may arise under valid patents.

2. If research or development is furnished in connection with this Agreement and if, in the course of such research or development, patentable work product is produced by Consultant, its officers, agents, employees, or Subconsultants, the City shall have, without cost or expense to it, an irrevocable, non-exclusive royalty-free license to make and use, itself or by anyone on its behalf, such work product in connection with any activity now or hereafter engaged in or permitted by City. Upon City's request, Consultant, at its sole cost and expense, shall promptly furnish or obtain from the appropriate person a form of license satisfactory to the City. It is expressly understood and agreed that, as between City and Consultant, the referenced license shall arise for City's benefit immediately upon the production of the work product, and is not dependent on the written license specified above. City may transfer such license to its successors in the operation or ownership of any real or personal property now or hereafter owned or operated by City.

4.10 Trademarks, Copyrights, and Patents

Consultant agrees to save, keep, hold harmless, protect and indemnify the City and any of its officers or agents from any damages, cost, or expenses in law or equity from infringement of any patent, trademark, service mark or copyright of any person or persons, or corporations in consequence of the use by City of any materials supplied by Consultant in the performance of this Agreement.

4.11 Confidentiality

The data, documents, reports or other materials which contain information relating to the review, documentation, analysis and evaluation of the work described in this Agreement and any recommendations made by Consultant relative thereto shall be considered confidential and shall not be reproduced, altered, used or disseminated by Consultant or its employees or agents in any manner except and only to the extent necessary in the performance of the work under this Agreement. In addition, Consultant is required to safeguard such information from access by unauthorized personnel.

4.12 Notices

In all cases where written notice is to be given under this Agreement, service shall be deemed sufficient if said notice is deposited in the United States mail, postage paid. When so given, such notice shall be effective from the date of mailing of the same. For the purposes hereof, unless otherwise provided by notice in writing from the respective parties, notice to the Department shall be addressed to Chief Harbor Engineer, Los Angeles Harbor Department, P.O. Box 151, San Pedro, California, 90733-0151, and notice to Consultant shall be addressed to it at the address set forth above. Nothing herein contained shall preclude or render inoperative service of such notice in the manner provided by law.

4.13 Termination Due to Non-Appropriation of Funds

This Agreement is subject to the provisions of the Los Angeles City Charter which, among other things, precludes the City from making any expenditure of funds or incurring any liability, including contractual commitments, in excess of the amount appropriated thereof.

The Board, in awarding this Agreement, is expected to appropriate sufficient funds to meet the estimated expenditure of funds through June 30 of the current fiscal year and to make further appropriations in each succeeding fiscal year during the life of the Agreement. However, the Board is under no legal obligation to do so.

The City, its boards, officers, and employees are not bound by the terms of this Agreement or obligated to make payment thereunder in any fiscal year in which the Board does not appropriate funds therefore. The Consultant is not entitled to any compensation in any fiscal year in which funds have not been appropriated for the Agreement by the Board.

Although the Consultant is not obligated to perform any work under the Agreement in any fiscal year in which no appropriation for the Agreement has been made, the Consultant agrees to resume performance of the work required by the Agreement on the same terms and conditions for a period of sixty (60) days after the end of the fiscal year if an appropriation therefore is approved by the Board within that 60 day period. The Consultant is responsible for maintaining all insurance and bonds during this 60 day period until the appropriation is made; however, such extension of time is not

compensable.

If in any subsequent fiscal year funds are not appropriated by the Board for the work required by the Agreement, the Agreement shall be terminated. However, such termination shall not relieve the parties of liability for any obligation previously incurred.

4.14 Taxpayer Identification Number

The Internal Revenue Service (IRS) requires that all consultants and suppliers of materials and supplies provide a TIN to the party that pays them. Consultant declares that it has an authorized TIN which shall be provided to the Department prior to payment under the Agreement. No payments will be made under the Agreement without a valid TIN.

4.15 Service Contractor Worker Retention Policy and Living Wage Policy Requirements

The Board of Harbor Commissioners of the City of Los Angeles adopted Resolution Nos. 19-8419 and 19-8420 on January 24, 2019, adopting the provisions of Los Angeles City Ordinance No. 185356, relating to Service Contractor Worker Retention (SCWR), Section 10.36 et seq. of the Los Angeles Administrative Code, as the policy of the Department. Further, Charter Section 378 requires compliance with the City's Living Wage requirements as set forth by ordinance, Section 10.37 et seq. of the Los Angeles Administrative Code. Consultant shall comply with the policy wherever applicable. Violation of this provision, where applicable, shall entitle the City to terminate this Agreement and otherwise pursue legal remedies that may be available.

4.16 Wage and Earnings Assignment Orders/Notices of Assignments

Consultant and/or any subconsultant are obligated to fully comply with all applicable state and federal employment reporting requirements for the Consultant and/or subconsultant's employees.

Consultant and/or subconsultant shall certify that the principal owner(s) are in compliance with any Wage and Earnings Assignment Orders and Notices of Assignments applicable to them personally. Consultant and/or subconsultant will fully comply with all lawfully served Wage and Earnings Assignment Orders and Notices of Assignments in accordance with Cal. Family Code § 5230 et seq. Consultant or subconsultant will maintain such compliance throughout the term of the Agreement.

4.17 Equal Benefits Policy

The Board of Harbor Commissioners of the City of Los Angeles adopted Resolution No. 6328 on January 12, 2005, agreeing to adopt the provisions of Los Angeles City Ordinance 172,908, as amended, relating to Equal Benefits, Section 10.8.2.1 et seq. of the Los Angeles Administrative Code, as a policy of the Harbor Department. Consultant shall comply with the policy wherever applicable. Violation of the policy shall entitle the City to terminate any Agreement with Consultant and pursue any and all other legal remedies that may be available. See Exhibit E.

4.18 State Tidelands Grants

The Agreement will be entered into in furtherance of and as a benefit to the State Tidelands Grant and the trust created thereby. Therefore, the Agreement will at all times be subject to the limitations, conditions, restrictions and reservations contained in and prescribed by the Act of the Legislature of the State of California entitled "An Act Granting to the City of Los Angeles the

Tidelands and Submerged Lands of the State Within the Boundaries of Said City," approved June 3, 1929, (Stats. 1929, Ch. 651), as amended, and provisions of Article VI of the Charter of the City of Los Angeles relating to such lands. Consultant agrees that any interpretation of the Agreement and the terms contained therein must be consistent with such limitations, conditions, restrictions and reservations.

4.19 Contract Solicitations Charter Section 470 (c) (12)

Persons who submit a response to this solicitation (proposers) are subject to Charter section 470 (c) (12) and related ordinances. As a result, proposers may not make campaign contributions to and or engage in fundraising for certain elected City officials or candidates for elected City office from the time they submit the response until either the contract is approved or, for successful proposers, 12 months after the contract is signed. The proposer's principals and subcontractors performing $100,000 or more in work on the contract, as well as the principals of those subcontractors, are also subject to the same limitations on campaign contributions and fundraising.

Proposers must submit CEC form 50 and 55 to the awarding authority at the same time the response is submitted (See Exhibit G). The form requires proposers to identify their principals, their subcontractors performing $100,000 or more in work on the contract, and the principals of those subcontractors. Proposers must also notify their principals and subcontractors in writing of the restrictions and include the notice in contracts with subcontractors. Responses submitted without a completed CEC Form 55 may be deemed nonresponsive. Proposers who fail to comply with City law may be subject to penalties, termination of contract, and debarment. Additional information regarding these restrictions and requirements may be obtained from the City Ethics Commission at (213) 978-1960 or ethics.lacity.org.

4.20 Iran Contracting Act of 2010

The California Legislature adopted the Iran Contracting Act of 2010 to respond to policies of Iran in a uniform fashion (PCC § 2201(q)). The Iran Contracting Act prohibits proposers engaged in investment activities in Iran from submitting proposals for, or entering into or renewing contracts with public entities for goods and services of one million dollars ($1,000,000) or more (PCC § 2203(a)). In accordance with California Public Contract Code Sections 2200-2208, all proposers submitting proposals for, entering into, or renewing contracts with the Harbor Department for goods and services estimated at $1,000,000 or more are required to complete, sign, and submit the Iran Contracting Act of 2010 Compliance Affidavit (See Exhibit H).

4.21 Recordkeeping And Audit Rights

A. Consultant shall keep and maintain full, complete and accurate books of accounts and records of the services performed under this Agreement in accordance with generally accepted accounting principles consistently applied, which books and records shall be readily accessible to and open for inspection and copying at the premises by City, its auditors or other authorized representatives. Notwithstanding any other provision of this Agreement, failure to do so shall constitute a conclusive waiver of any right to compensation for such services as are otherwise compensable hereunder. Such books and records shall be maintained by Consultant for a period of three (3) years after completion of services to be performed under this Agreement or until all disputes, appeals, litigation or claims arising from this Agreement have been resolved.

B. During the term of this Agreement, City may audit, review and copy any and all writings (as that term is defined in Section 250 of the California Evidence Code) of Consultant and Subconsultants arising from or related to this Agreement or performance of the Scope of Work,

whether such writings are (a) in final form or not, (b) prepared by Consultant, Subconsultants or any individual or entity acting for or on behalf of Consultant or a Subconsultant, and (c) without regard to whether such writings have previously been provided to City. Consultant shall be responsible for obtaining access to and providing writings of Subconsultants. Consultant shall provide City at Consultant's sole cost and expense a copy of all such writings within fourteen (14) calendar days of a written request by City. City's right shall also include inspection at reasonable times of the Consultant's office or facilities which are engaged in the performance of the Scope of Work. Consultant shall, at no cost to City, furnish reasonable facilities and assistance for such review and audit. Consultant's failure to comply with this Article 6 shall constitute a material breach of this Agreement and shall entitle City to withhold any payment due under this Agreement until such breach is cured.

ATTACHMENT 1

CONCEPTUAL SITE PLAN



ATTACHMENT 2
PROJECT COST

For those items of the work for which compensation is payable in Fixed Fee amounts, Payment to the Consultant shall be made in monthly installments for the Fixed Fee amount set forth below, according to the percentage of completion of each phase of work, as determined and approved by the Chief Harbor Engineer based upon monthly progress reports submitted by Consultant. Monthly progress payments shall be equal to the percentage of completion for each phase multiplied by the Fixed Fee payable for completion of each phase, less amounts previously billed.

For those items of the work for which compensation is payable up to Estimated amounts, Consultant shall be paid an hourly fee at the rates set forth in this Proposal. Consultant's monthly invoice shall itemize all hours actually worked in performing such services, identifying the personnel and sub-consultant classifications of individuals performing such work and the applicable hourly rates.

Compensable amounts set forth on an hourly basis, or fixed fee basis, are estimated only. In the event that all necessary services required in any category described herein, in the judgement of the Chief Harbor Engineer, are fully performed by Consultant at a cost to City which is less than the amounts estimated and authorized hereunder, the Chief Harbor Engineer may apply the unexpended balance to compensate Consultant for services in any other category for which compensation was underestimated on either of these bases.

I. PRE-CONSTRUCTION SERVICES

1. Pre-Construction Services, as described in Tasks 1.1 through 1.5 of the Project Scope of Services (sub-Task scope and fee as noted in individual Directives),

Estimated Amount $_____.

II. CONSTRUCTION SERVICES

1. Construction Services, as described in Tasks 2.1, 2.3 through 2.18, 2.24, and 2.25 of the Project Scope of Services.

Fixed Fee $_____.

2. Construction Services, as described in Tasks 2.2, and 2.19, through 2.23 of the Project Scope of Services (sub-Task scope and fee as noted in individual Directives),

Estimated Amount $_____.

III. POST-CONSTRUCTION SERVICES

1. Post-Construction Services, as described in Tasks 3.1 and 3.2 of the Project Scope of Services (Sub-Task scope and fee as noted in individual Directives),

Estimated Amount $_____.

Subtotal for above Services $ _____.

IV. OTHER SERVICES

1. Public Outreach Services as described in Task 4.1 of the Project Scope of Work (Sub-Task cope and fee as noted in individual Directives),

Estimated Amount $_____

2. Partnering facilitation and follow-up sessions as described in Task 4.2 of the Project Scope of Work (Sub-Task scope and fee as noted in individual Directives),

Estimated Amount $_____

3. Quality Assurance Services as described in Task 4.3 of the Project Scope of Work (Sub-Task scope and fee as noted in individual Directives),

Estimated Amount $_____

4. Additional As-Needed Services as described in Task 4.4 of the Project Scope of Work (Sub-Task scope and fee as noted in individual Directives),

Estimated Amount $_____

Subtotal for Other Services $_____

Expenses for the Fixed Fee items are included in the Fixed Fee amounts.

Expenses for the estimated items in I. Pre-Construction Services, II. Construction Services, and III. Post-Construction Services are included in those Estimated Amounts.

Expenses for the items described in IV. Other Services shall be billed as noted in individual Directives.

Maximum Agreement compensation shall not exceed the total of I. through V.

$ _____.

ATTACHMENT 3
RESOURCE SCHEDULE
Consultant Firm

Please complete the table below and submit with your proposal. Complete the Excel spreadsheet version format, which will be posted as a separate document on RAMP (ID#222214).

Task		Description/Position	Hourly Rate	Pre-Construction 2-Month Period		Construction 30-Month Period		Post-Construction 4-Month Period	
				Hours	Total Cost	Hours	Total Cost	Hours	Total Cost
1 PRE-CONSTRUCTION SERVICES	Pre-Construction Services - Tasks 1.1-1.5 of the Project Scope of Services	Senior Construction Manager/Resident Engineer (half time)		160	$0.00				
		Structure Representative/Engineer half time)		160	$0.00				
		Field/Office Engineer (half time)		160	$0.00				
		Document Control/Clerical (half time)		160	$0.00				
		Estimated Amount for this task			$0.00				
2 CONSTRUCTION SERVICES	Construction Services - Tasks 2.1, 2.3-2.18, 2.24 and 2.25 of the Scope of Services	Senior Construction Manager/Resident Engineer (full time)				5,000	$0.00		
		Structure Representative/Engineer (full time)				5,000	$0.00		
		Field/Office Engineer (full time)				5,000	$0.00		
		Document Control/Clerical (full time)				5,000	$0.00		
		Fixed fee amount for this task					$0.00		
		Monthly Fixed Fee					$0.00		
	Construction Services as described in Tasks 2.2 and 2.18 through 2.23 of the Project Scope of Services	2.2 Contractor's Construction Schedule (Assume 2000 hours)				2,000	$0.00		
		2.19 Environmental Compliance and SWPPP Coordination (Assume 2000 hours)				2,000	$0.00		
		2.20 Claims Management (Assume 500 hours)				500	$0.00		
		2.21 Specialized Scheduling Services (Assume 500 hours)				500	$0.00		
		2.22 Independent Estimating Services (Assume 2000 hours)				2,000	$0.00		
		2.23 Safety Programs (Assume 1200 hours)				1,200	$0.00		
		Estimated Amount for this task					$0.00		
3. POST-CONSTRUCTION SERVICES	Post-Construction Services as described in Tasks 3.1 and 3.2 of the Project Scope of Work	Senior Construction Manager/Resident Engineer (full time)						640	$0.00
		Structure Representative/Engineer (full time)						640	$0.00
		Field Office Engineer (full time)						640	$0.00
		Document Control/Clerical (full time)						640	$0.00
		Estimated Amount for this task							$0.00
4. OTHER SERVICES									
	4.2 Partnering Facilitation Services as described in the Project Scope of Work						Estimated Amount		
	4.4 Additional As-Needed Services as described in the Project Scope of Work						Estimated Amount		

Maximum Agreement Compensation **$0.00**

ATTACHMENT 4

THE PORT OF LOS ANGELES

ENGINEERING DIVISION

AVALON PEDESTRIAN BRIDGE AND PROMENADE GATEWAY

AVALON PEDESTRIAN BRIDGE.....1-3302
AVALON PROMENADE GATEWAY.....1-3472

SPECIFICATION NO. 2804

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

CONSTRUCTION DIVISION		TRANS	R/W	ARCH	SPECS	CHIEF OF DESIGN
INSPECTION	SURVEY	WATERFRONT	CIVIL	ELEC	PR MNGR	ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER - CONST DIV.			STRUCT	MECH	CAD MNGR	CHIEF HARBOR ENGINEER ____ DATE

AVALON PEDESTRIAN BRIDGE AND PROMENADE GATEWAY

COVER SHEET

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3302, 1-3472

SHEET NUMBER: T-01

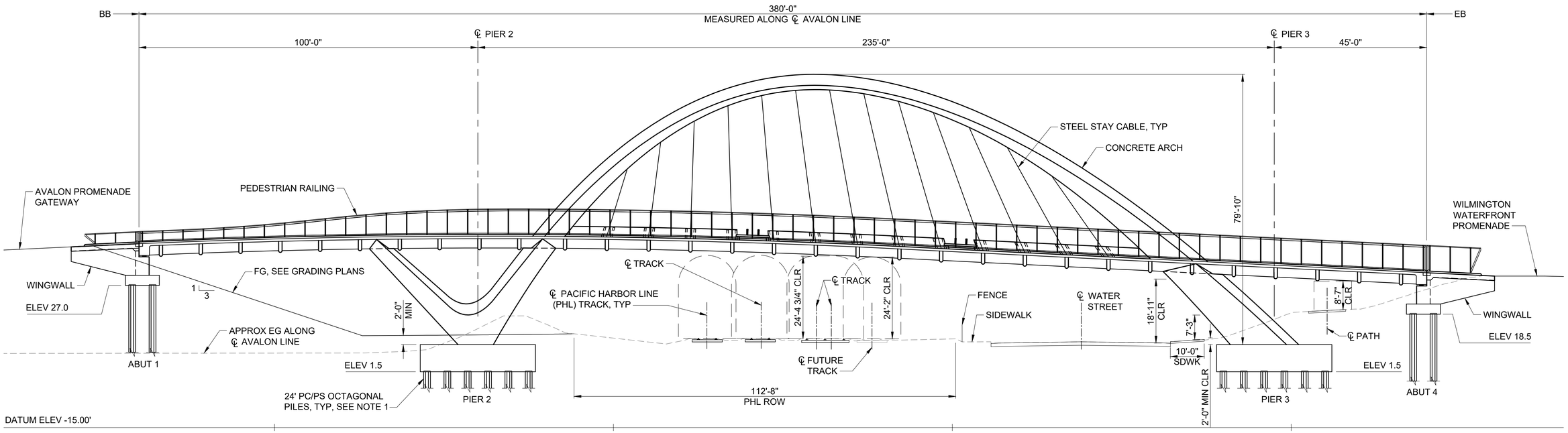
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DATE: Sep 19, 2024 6:22pm

POLAPROT_04/2023_BWD

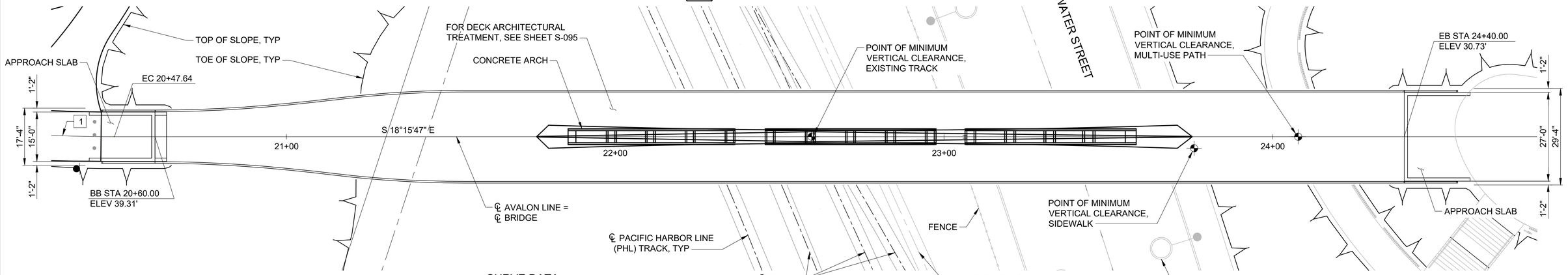
NOTES:
1. FOR "PILE DATA TABLE", SEE SHEET S-010.
2. FOR "INDEX TO DRAWINGS", SEE SHEET S-002.
3. FOR "TYPICAL SECTION", SEE SHEET S-061.
4. FOR "GENERAL NOTES", SEE SHEET S-003.



1S-001 / S-001 PROFILE GRADE
SCALE: NTS



2S-001 / S-001 ELEVATION
SCALE: 1" = 15'



COORDINATE TABLE

STATION	N:	E:
21+00	1738151.61	6482088.20
24+00	1737866.72	6482182.21

SURVEY CONTROL

FOR PROJECT SURVEY CONTROL, SEE SHEET CC-01.

CURVE DATA

#	R	Δ	L	T
1	450.00'	123°49'31"	441.19'	239.98

3S-001 / S-001 PLAN
SCALE: 1" = 15'

N

100% CONSTRUCTION DOCUMENT

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

REGISTERED PROFESSIONAL ENGINEER
DANIEL J FITZWILLIAM
No. 58937
Exp. 6/30/2025
CIVIL
STATE OF CALIFORNIA

TYLin
707 WILSHIRE BOULEVARD, SUITE 4900
LOS ANGELES, CALIFORNIA 90017
PHONE(213) 946-7960

SCALE: AS NOTED
DRAWN: R. ELWOOD
CHECKED: R. KELLY
DESIGNED: B. SOKOLOWSKI
ENGINEER / ARCHITECT

AVALON PEDESTRIAN BRIDGE

GENERAL PLAN AND ELEVATION

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3302
SHEET NUMBER: S-001

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DATE: Oct. 30, 2024 4:04 PM XREFS:XREF_PolA_Border IMAGES:
POLAPRDT_102012_R.B.

GENERAL NOTES

LOAD AND RESISTANCE FACTOR DESIGN:

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION AND CALTRANS AMENDMENTS, DATED AUGUST 2019

AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, 2nd EDITION, 2009

AVALON PEDESTRIAN BRIDGE DESIGN CRITERIA, DATED JULY 2018 WITH REVISIONS DATED MAY 2023

SEISMIC DESIGN: CALTRANS SEISMIC DESIGN CRITERIA (SDC) VERSION 1.7, APRIL 2013

DEAD LOAD: INCLUDES 6.25 psf FOR FUTURE WEARING SURFACE

CREEP & SHRINKAGE: CEB-FIP MODEL CODE FOR CONCRETE STRUCTURES, 1990
AVERAGE RELATIVE HUMIDITY = 70%
AVERAGE AMBIENT TEMPERATURE = 80° F
AGE OF CONCRETE AT LOADING = 60 DAYS

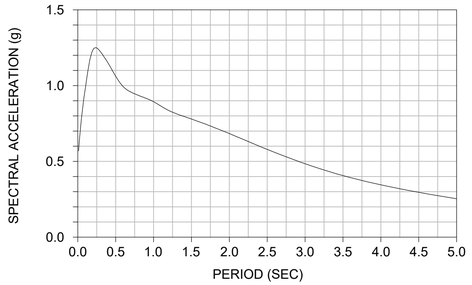
LIVE LOADING: 90 psf PEDESTRIAN LIVE LOAD, H10 TRUCK

WIND LOADING:

WIND SPEED APPLICABLE FOR	RETURN PERIOD (YEARS)	MEAN WIND SPEED (mph) AT DECK LEVEL 26 FT AND AVERAGING TIME		CORRESPONDING 3-SECOND GUST SPEED (mph) AT 33 FT OPEN TERRAIN
DESIGN DURING CONSTRUCTION	20	48.3	1 h	71.3
DESIGN OF COMPLETED BRIDGE	700	62.8	1 h	92.7
STABILITY DURING CONSTRUCTION	1,000	62.7	10 min	88.9*
STABILITY OF COMPLETED BRIDGE	10,000	71.9	10 min	101.9*

SEISMIC LOADING: SDC ARS ONLINE 2.0
SOIL PROFILE: V_{S}^{30} = 590 - 920 FT/SEC
MOMENT MAGNITUDE: 7.2
PEAK GROUND ACCELERATION: 0.569g

ARS CURVE



STAY CABLE REPLACEMENT: THE BRIDGE IS DESIGNED FOR FUTURE REPLACEMENT OF ANY INDIVIDUAL STAY CABLE WITH RESTRICTION ON LIVE LOADS. DURING STAY CABLE REPLACEMENT, THE ENTIRE BRIDGE SHALL BE CLOSED TO PEDESTRIAN TRAFFIC. A SINGLE H10 TRUCK MAY BE LOCATED AT THE STAY CABLE BEING REPLACED.

PILE MATERIALS:
CONCRETE:
f'_c @ TRANSFER = 5.0 ksi
f'_c @ TIME OF MOVING PILE = 5.2 ksi
f'_c @ 28 DAYS & TIME OF DRIVING PILE = 6.5 ksi

PROVIDE NON-SHRINK, NON METALLIC EPOXY GROUT FOR SETTING OF DOWELS. GROUT SHALL EXTEND THE FULL HEIGHT OF THE HOLE.

REINFORCING: PRESTRESSING STEEL SHALL CONFORM TO ASTM A416 7-WIRE LOW RELAXATION STRAND (LRS) GRADE 270.

MILD STEEL DOWEL SHALL CONFORM TO ASTM A706 GRADE 60.

EACH WRAP OF SPIRAL SHALL BE TIED TO AT LEAST 2 CORNER STRANDS.

REINFORCED CONCRETE: f_y = 60 ksi, ASTM A706 GRADE 60
EPOXY COATED WHERE SPECIFICALLY NOTED
f'_c = 3.6 ksi, SEE "CONCRETE STRENGTH AND TYPE LIMITS"
n = 8

PRESTRESSED CONCRETE: SEE "PRESTRESSING NOTES" ON SHEET S-065.

STAY CABLE: 1 5/8" DIAMETER FULL LOCKED COIL GALFAN COATED CABLE
A_s = 1.65 IN^2
E_s = 23,000 ksi
F_u = 210 ksi

PEDESTRIAN RAILING: STAINLESS STEEL TYPE 2205, F_y=50 ksi MINIMUM, UNO
PLATES PER ASTM A240
STRUCTURAL SHAPES PER ASTM A276
LASER WELDED BUILT UP SECTIONS PER ASTM A1069
AESSS SURFACE FINISH 3
BOLTS PER ASTM A4-80
NUTS PER ASTM A4-80
WASHERS GRADE 316L

STRUCTURAL STEEL: ASTM A709 GALVANIZED F_y=50 ksi
ASTM A354 THREADED BOLTS SHALL BE GRADE BD

WELDING: WELDING PER AWS D1.5/1.5M
STAINLESS STEEL WELDING PER AWS D1.6/1.6M

HYDROLOGIC NOTES:

SEA LEVEL RISE (SLR) AND SCOUR WERE NOT CONSIDERED AS DESIGN CRITERIA.

CALTRANS STANDARD PLANS (DATED 2018)

A3A	ABBREVIATIONS (SHEET 1 OF 3)
A3B	ABBREVIATIONS (SHEET 2 OF 3)
A3C	ABBREVIATIONS (SHEET 3 OF 3)
A10A	LEGEND - LINES AND SYMBOLS (SHEET 1 OF 5)
A10B	LEGEND - LINES AND SYMBOLS (SHEET 2 OF 5)
A10C	LEGEND - LINES AND SYMBOLS (SHEET 3 OF 5)
A10D	LEGEND - LINES AND SYMBOLS (SHEET 4 OF 5)
A10E	LEGEND - LINES AND SYMBOLS (SHEET 5 OF 5)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL-BRIDGE
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B6-10	UTILITY OPENINGS - T-BEAM
B14-5	WATER SUPPLY LINE (DETAILS)

DETAIL IDENTIFICATION - STANDARD PLAN SHEET NO / - DETAIL NO

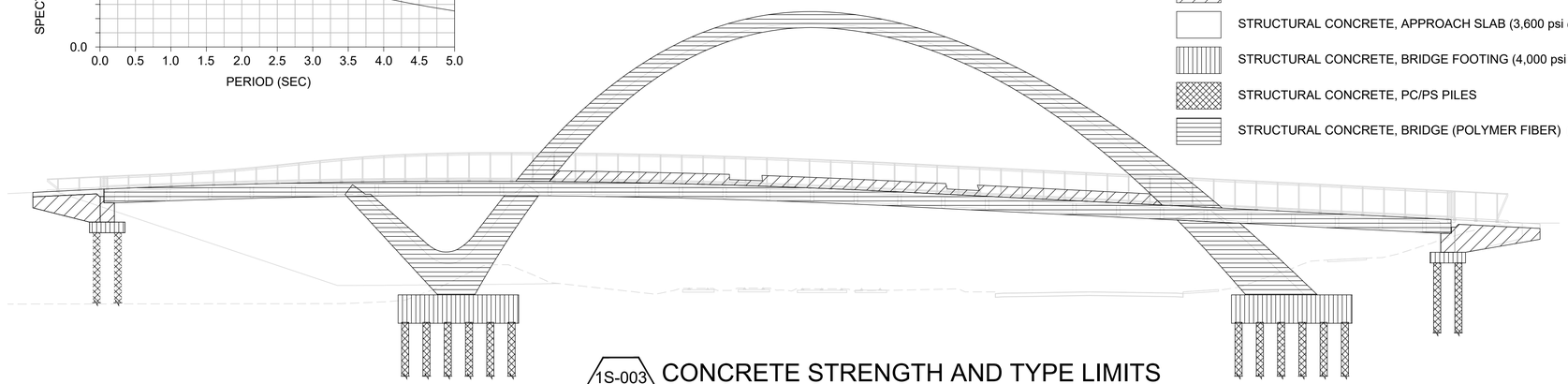
ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABUT	ABUTMENT
ACI	AMERICAN CONCRETE INSTITUTE
ACWS	ASPHALT CONCRETE WEARING SURFACE
ADA	AMERICANS WITH DISABILITIES ACT
ADDL	ADDITIONAL
&	AND
APPROX	APPROXIMATELY
ASTM	AMERICAN SOCIETY OF THE INTERNATIONAL ASSOCIATION FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BEG	BEGIN
BOF	BOTTOM OF FOOTING
BB	BEGIN BRIDGE
BC	BARE COPPER
BRG	BEARING
BK	BACK
BOT	BOTTOM
BVC	BEGIN VERTICAL CURVE
C	CONDUIT
CIP	CAST-IN-PLACE
CIDH	CAST-IN-DRILLED-HOLE
CJ	CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
℄	CENTERLINE
CLR	CLEAR
CONC	CONCRETE
CU	CUBIC
DEG, °	DEGREE
DIA, Ø	DIAMETER
DWG	DRAWING
DWGS	DRAWINGS
EA	EACH
EB	END BRIDGE
ED	EDITION
EF	EACH FACE
EJ	EXPANSION JOINT
EL, ELEV	ELEVATION
EQ	EQUAL
EVC	END VERTICAL CURVE
EW	EACH WAY
EXTG, EXIST	EXISTING
EXP	EXPANSION
F	FAHRENHEIT
FF	FRONT FACE
FIX	FIXED
FG	FINISHED GROUND
FA	FACTOR OF SAFETY
FT	FEET
FTG	FOOTING
FY	YIELD STRESS
G	GROUND
GALV	GALVANIZED
GR	GRADE
GRS	GALVANIZED RIGID STEEL
HS	HIGH STRENGTH
HORIZ	HORIZONTALLY
ID	INSIDE DIAMETER
IN	INCH
K	KIPS
ksi	KIPS PER SQUARE INCH
LB, LBS	POUND, POUNDS
LF	LINEAR FEET
LIN	LINEAR
LOL	LAYOUT LINE
LONG	LONGITUDINAL
LT	LEFT
LRFD	LOAD AND RESISTANCE FACTOR DESIGN
MAX	MAXIMUM
MIN	MINIMUM
MR	MOVEMENT RATING
NF	NEAR FACE
NO , #	NUMBER
NOS	NUMBERS
OD	OUTSIDE DIAMETER
OG	ORIGINAL GROUND
℔	PLATE
PIN	PINNED
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
pcf	POUNDS PER CUBIC FOOT
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PROP	PROPOSED
psf	POUNDS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
PT	POINT
PVT	POINT OF VERTICAL TANGENT
R	RADIUS
REINF	REINFORCING
RT	RIGHT
REQ'D	REQUIRED
RF	REAR FACE
SHLDR	SHOULDER
SIM	SIMILAR
SL	SLOPE
SPA	SPACES
STA	STATION
STD	STANDARD
STIFF	STIFFENER
SHT	SHEET
SS	STAINLESS STEEL
SQ	SQUARE
SYMM	SYMMETRIC
TB	TRANSVERSE BEAM
THK	THICK
TOT	TOTAL
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VD	VOLTAGE DROP
VC	VERTICAL CURVE
VERT	VERTICAL
W/	WITH
WP	WORK POINT
WW	WINGWALL
YD	YARD

NOTE:
PROJECT ABBREVIATIONS SHOWN HERE TAKE PRECEDENCE OVER ABBREVIATIONS FROM CALTRANS STANDARD PLANS.

LEGEND:

- STRUCTURAL CONCRETE, BRIDGE (4,000 psi @ 28 DAYS)
- STRUCTURAL CONCRETE, APPROACH SLAB (3,600 psi @ 28 DAYS)
- STRUCTURAL CONCRETE, BRIDGE FOOTING (4,000 psi @ 28 DAYS)
- STRUCTURAL CONCRETE, PC/PS PILES
- STRUCTURAL CONCRETE, BRIDGE (POLYMER FIBER) (6,000 psi @ 28 DAYS)



1S-003 / S-003 CONCRETE STRENGTH AND TYPE LIMITS
SCALE: NTS

100% CONSTRUCTION DOCUMENT

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

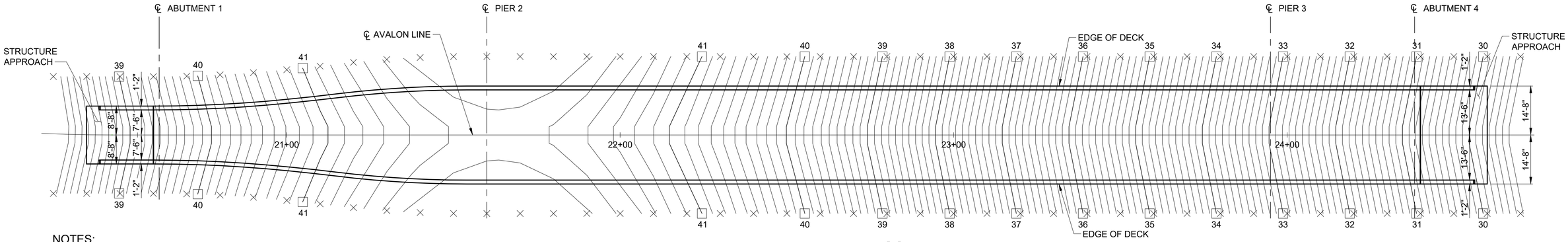
REGISTERED PROFESSIONAL ENGINEER — DANIEL J FITZWILLIAM — No. 58937 — Exp. 6/30/2025 CIVIL — STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

TYLin
707 WILSHIRE BOULEVARD, SUITE 4900
LOS ANGELES, CALIFORNIA 90017
PHONE(213) 946-7960

SCALE: AS NOTED
DRAWN: R. STONE
CHECKED: R. KELLY
DESIGNED: B. SOKOLOWSKI
ENGINEER / ARCHITECT

AVALON PEDESTRIAN BRIDGE
GENERAL NOTES
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309
DRAWING NUMBER 1-3302
SHEET NUMBER S-003

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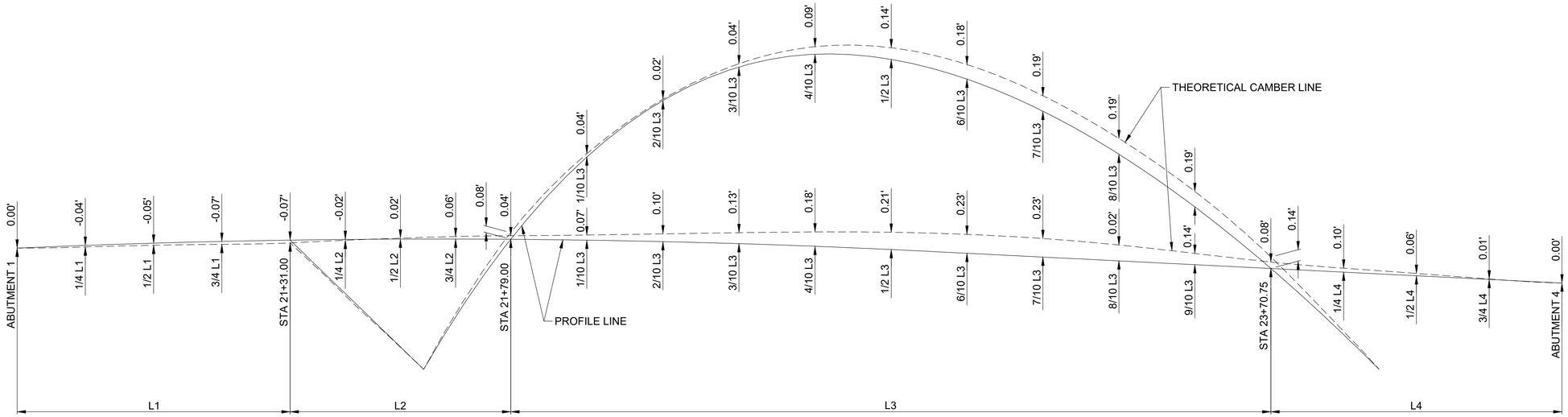


NOTES:

1. CONTOUR INTERVAL = 0.10 FT.
2. CONTOURS DO NOT INCLUDE CAMBER.
3. X - INDICATES 10' INTERVALS ALONG ℄ AVALON LINE.
4. Y - INDICATES EVEN FOOT CONTOUR.
5. FOR LAYOUT INFORMATION, SEE SHEET S-001.

1S-004 / S-004 **PLAN**
SCALE: 1" = 15'

N



2S-004 / S-004 **CAMBER DIAGRAM**
SCALE: NTS
(DOES NOT INCLUDE ALLOWANCE FOR FALSEWORK SETTLEMENT)

NOTE:
THEORETICAL CAMBER IS CALCULATED BASED ON ASSUMED ARCH CONCRETE AGE OF 30 DAYS AT FALSEWORK RELEASE. ERECTION ENGINEERING PERFORMED BY THE CONTRACTOR SHALL INVESTIGATE CAMBER FOR THE SPECIFIC ERECTION SEQUENCE AND TIMING USED DURING CONSTRUCTION AND SHALL BE SUBMITTED FOR ENGINEERS FOR APPROVAL.

100% CONSTRUCTION DOCUMENT

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

REGISTERED PROFESSIONAL ENGINEER
DANIEL J FITZWILLIAM
No. 58937
Exp. 6/30/2025
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DECK CONTOURS

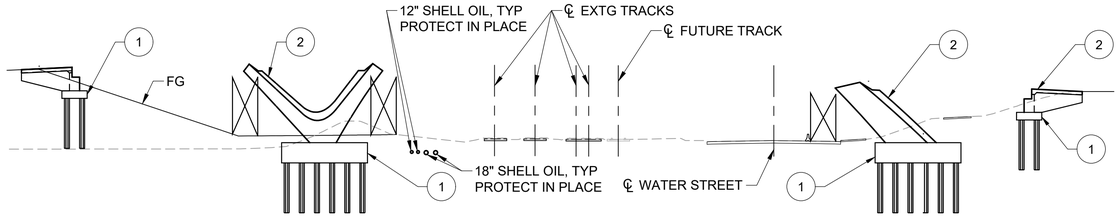
THE PORT OF LOS ANGELES
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425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3302
SHEET NUMBER: S-004

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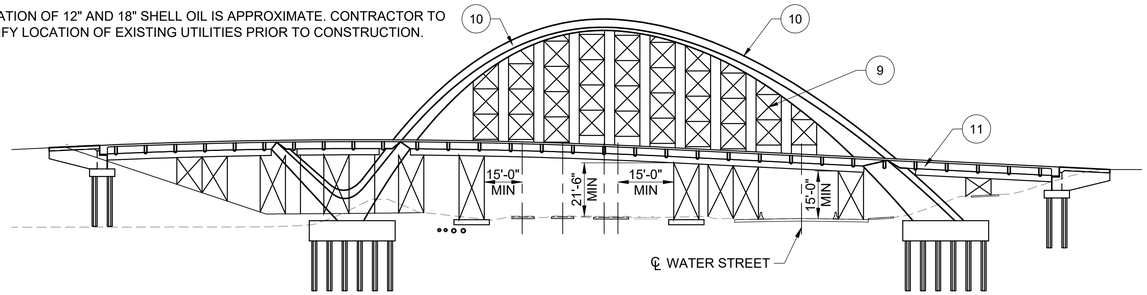
NOTES:

1. TOTAL CUMULATIVE FALSEWORK SETTLEMENT SHALL BE LESS THAN 1".
2. ARCH CONCRETE TO CURE A MINIMUM OF 7 DAYS AND ATTAIN 28 DAY STRENGTH PRIOR TO HANGER CABLE TENSIONING.
3. MINIMUM TEMPORARY CLEARANCE SHALL NOT BE VIOLATED DUE TO DEFLECTION OF FALSEWORKS.
4. DECK FALSEWORK MUST BE CAPABLE OF SUPPORTING ENTIRE LOAD OF DECK SECTION, ARCH RIBS AND STRUTS. CONTRACTOR SHALL BE RESPONSIBLE FOR DEMONSTRATING STRUCTURE IS CAPABLE OF SUPPORTING ANY TEMPORARY WORKS SUPPORTED BY PERMANENT STRUCTURE IN ERECTION MANUAL SUBMISSION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION ENGINEERING AND STAGE DEPENDANT GEOMETRY CONTROL.
6. CONTRACTORS ERECTION ENGINEER SHALL BE RESPONSIBLE FOR VERIFYING TEMPORARY STABILITY OF STRUCTURE DURING CONSTRUCTION INCLUDING CONSTRUCTION WIND LOADS PRESCRIBED ON S-003.
7. CLEARANCES SHOWN ARE PERPENDICULAR TO CENTERLINES SHOWN.
8. CONTRACTOR IS RESPONSIBLE FOR ALL FALSEWORK LAYOUT AND DESIGN AS NEEDED. FALSEWORK SHOWN HERE IS ONLY FOR THE PURPOSE OF CONVEYING THAT FALSEWORK WILL BE REQUIRED AND SHOWING THE REQUIRED OPENINGS.
9. TIMBER "LOST DECK" MAY BE LEFT INSIDE THE ARCH. ALTERNATIVELY, HIGH DENSITY FOAM THAT IS CUT TO FORM THE VOID MAY BE USED. CONTRACTOR SHALL PROVIDE CALCULATIONS SUPPORTING THE ADEQUACY OF EITHER METHOD AS PART OF THE ERECTION MANUAL.
10. LOCATION OF 12" AND 18" SHELL OIL IS APPROXIMATE. CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
11. CONTRACTOR MAY USE CONSTRUCTION JOINTS AS SHOWN ON S-008 WHEN CONSTRUCTING THE ARCH. ORIENTATION OF JOINT MAY BE VERTICAL, LEVEL, OR RADIAL TO THE ARCH. LOCATIONS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL. CONSTRUCTION JOINTS MAY NOT OCCUR WITHIN STAY CABLE ANCHORAGE.



1 PILE CAPS, ALL BENTS AND ABUTMENTS

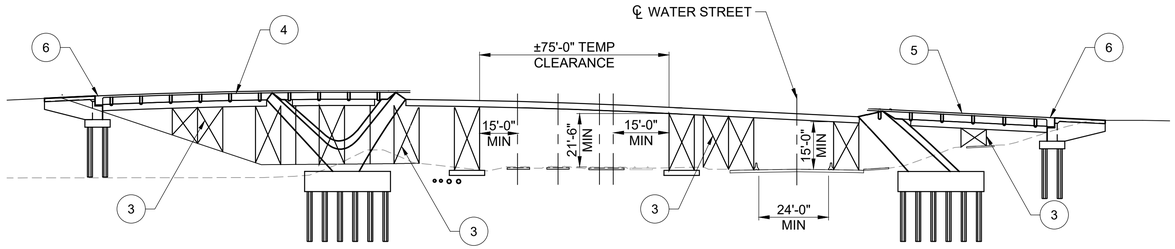
2 COLUMNS, ABUTMENT WALLS, WINGWALLS AND ARCH BASE



9 ERECT ARCH FALSEWORK

10 ARCH RIB PLACEMENT

11 POST TENSION SUPERSTRUCTURE

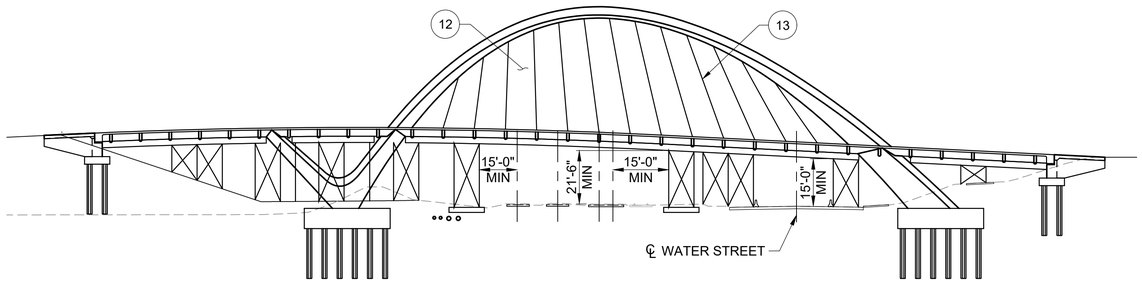


3 DECK FALSEWORK

4 SPAN 1 SUPERSTRUCTURE

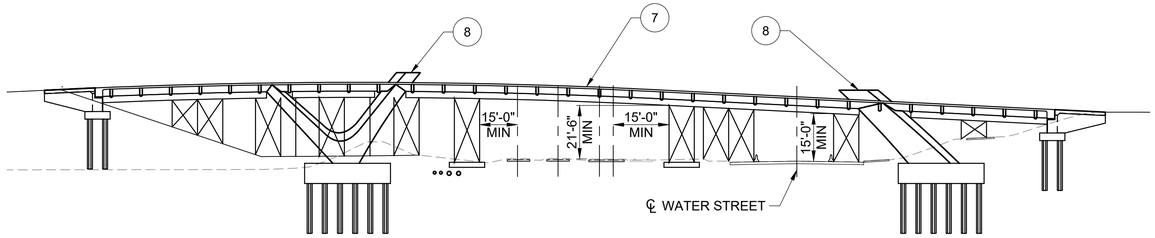
5 SPAN 3 SUPERSTRUCTURE

6 ABUTMENT SHEAR KEY



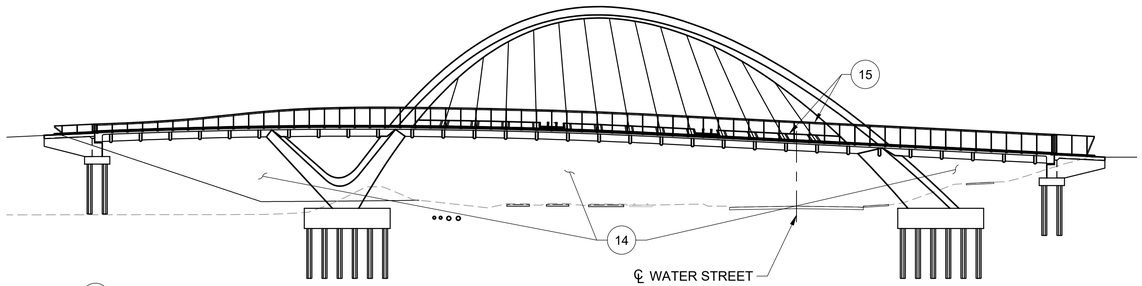
12 RELEASE/REMOVE ARCH FALSEWORK, SEE SPECIAL PROVISIONS

13 INSTALL AND TENSION HANGER CABLES,
SEE CABLE STRESSING SEQUENCE, SHEET S-008



7 SPAN 2 SUPERSTRUCTURE

8 CAST PORTION OF ARCH RIB



14 RELEASE/REMOVE DECK FALSEWORK, SEE SPECIAL PROVISIONS.

15 INSTALL PLANTERS, RAILINGS, AND LIGHTING.

16 PERFORM VIBRATION TESTING AS
PRESCRIBED IN THE SPECIAL PROVISIONS.

100% CONSTRUCTION DOCUMENT

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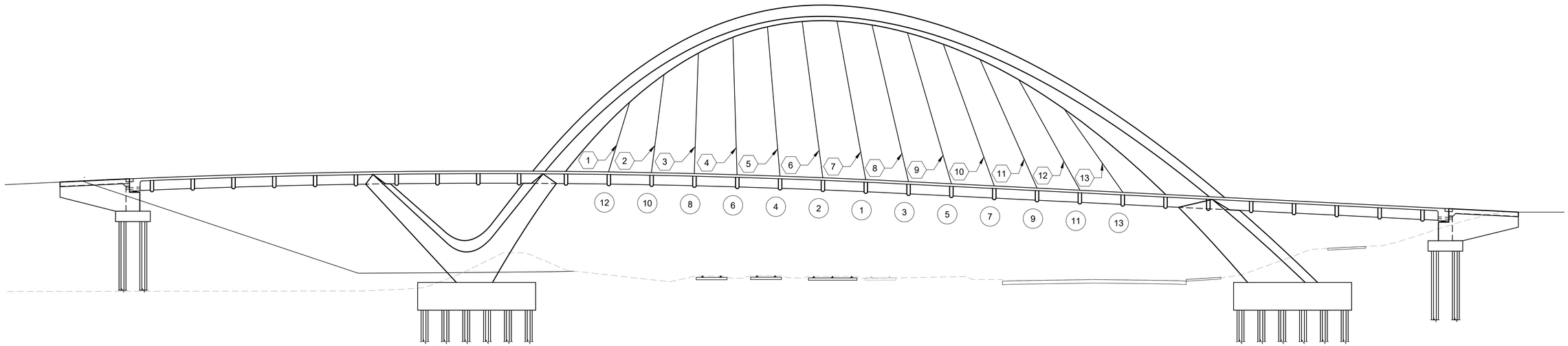
AVALON PEDESTRIAN BRIDGE

CONSTRUCTION SEQUENCE

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

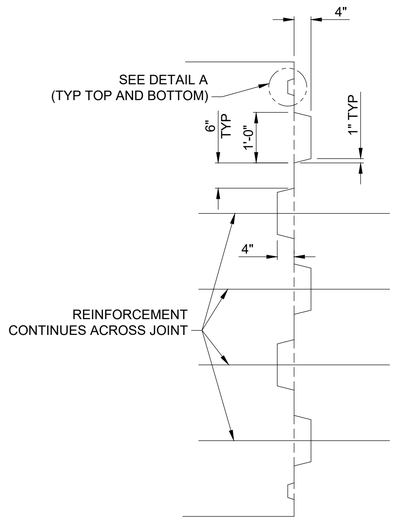
DRAWING NUMBER 1-3302 | SHEET NUMBER S-006

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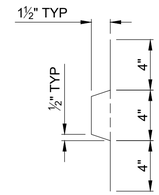


1S-008 / S-008 **CABLE STRESSING**
SCALE: 1" = 15'

CABLE STRESSING DATA			
STRESSING ORDER	CABLE NUMBER	CABLE FORCE 1 (KIPS)	CABLE FORCE 2 (KIPS)
1	7	68.0	109.5
2	6	69.0	110.5
3	8	65.0	106.0
4	5	70.0	111.0
5	9	67.0	107.0
6	4	71.5	110.2
7	10	68.5	105.0
8	3	74.5	108.5
9	11	73.0	103.5
10	2	81.5	107.5
11	12	82.5	104.0
12	1	96.0	109.5
13	13	93.5	104.5



2S-008 / S-008 **ARCH LONGITUDINAL JOINTS**
SCALE: NTS



3S-008 / S-008 **DETAIL A**
SCALE: NTS

LEGEND:

(X) STRESSING SEQUENCE

⟨XX⟩ CABLE NUMBER

NOTES:

1. CABLE FORCE 1 IS THE TARGET TENSION FORCE (KIPS) IN EACH CABLE AFTER ALL CABLES ARE STRESSED AND FALSEWORK IS RELEASED (AFTER CONSTRUCTION STAGE 13).
2. CABLE FORCE 2 IS THE TARGET TENSION FORCE (KIPS) IN EACH CABLE AFTER RAILING AND PLANTER INSTALLATION (AFTER CONSTRUCTION STAGE 15).
3. CONTRACTOR SHALL PREPARE ERECTION ENGINEERING PLAN TO ACHIEVE TARGET FORCES FOR APPROVAL BY ENGINEER.
4. DEVIATION OF CABLE FORCE 2 OF MORE THAN 5% SHALL BE APPROVED BY ENGINEER.
5. TARGET FORCES SHALL NOT CONTAIN LIVE LOADS OR CONSTRUCTION LOADS.
6. CONTRACTOR MAY PROPOSE ALTERNATIVE STRESSING SEQUENCES. ALTERNATIVES SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.
7. FALSEWORK NOT SHOWN. CONTRACTOR IS RESPONSIBLE FOR ALL FALSEWORK LAYOUT AND DESIGN AS NEEDED.

100% CONSTRUCTION DOCUMENT

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NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

REGISTERED PROFESSIONAL ENGINEER — DANIEL J FITZWILLIAM — No. 58937 — Exp. 6/30/2025 — CIVIL — STATE OF CALIFORNIA
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STRESSING SEQUENCE

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3302
SHEET NUMBER: S-008

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DATE: Oct. 30, 2024 4:04 PM XREFS:XREF_PoLA_Border IMAGES:
POLAPRO1_102012_R.B.

CURVE DATA

#	R	Δ	L	T
1	450.00'	123°49'31"	441.19'	239.98

N

SURVEY CONTROL

FOR PROJECT SURVEY CONTROL,
SEE SHEET CC-01.

PILE DATA TABLE

LOCATION	PILE TYPE	CUT-OFF ELEVATION (FT)	REQUIRED FACTORED NOMINAL RESISTANCE (kips)				DESIGN TIP ELEVATION (FT)	SPECIFIED TIP ELEVATION (FT)	NOMINAL DRIVING RESISTANCE (kips)
			STRENGTH / CONSTRUCTION		EXTREME EVENT				
			COMPRESSION (ϕ = 0.7)	TENSION (ϕ = 0.7)	COMPRESSION (ϕ = 1.0)	TENSION (ϕ = 1.0)			
ABUT 1	24" PC/PS OCTAGONAL PILES	27.25	229	N/A	N/A	N/A	-25 (a-I), -22 (c), -22 (d)	-25.0	---
PIER 2	24" PC/PS OCTAGONAL PILES	1.75	318	N/A	445	290	-25 (a-I), -25 (a-II), -30 (b-II), -22 (c), -22 (d)	-30.0	---
PIER 3	24" PC/PS OCTAGONAL PILES	1.75	489	112	390	210	-30 (a-I), -25 (a-II), -26 (b-II), -22 (c), -22 (d)	-30.0	---
ABUT 4	24" PC/PS OCTAGONAL PILES	18.75	243	N/A	N/A	N/A	-25 (a-I), -22 (c), -22 (d)	-25.0	---

PILE DATA NOTES:

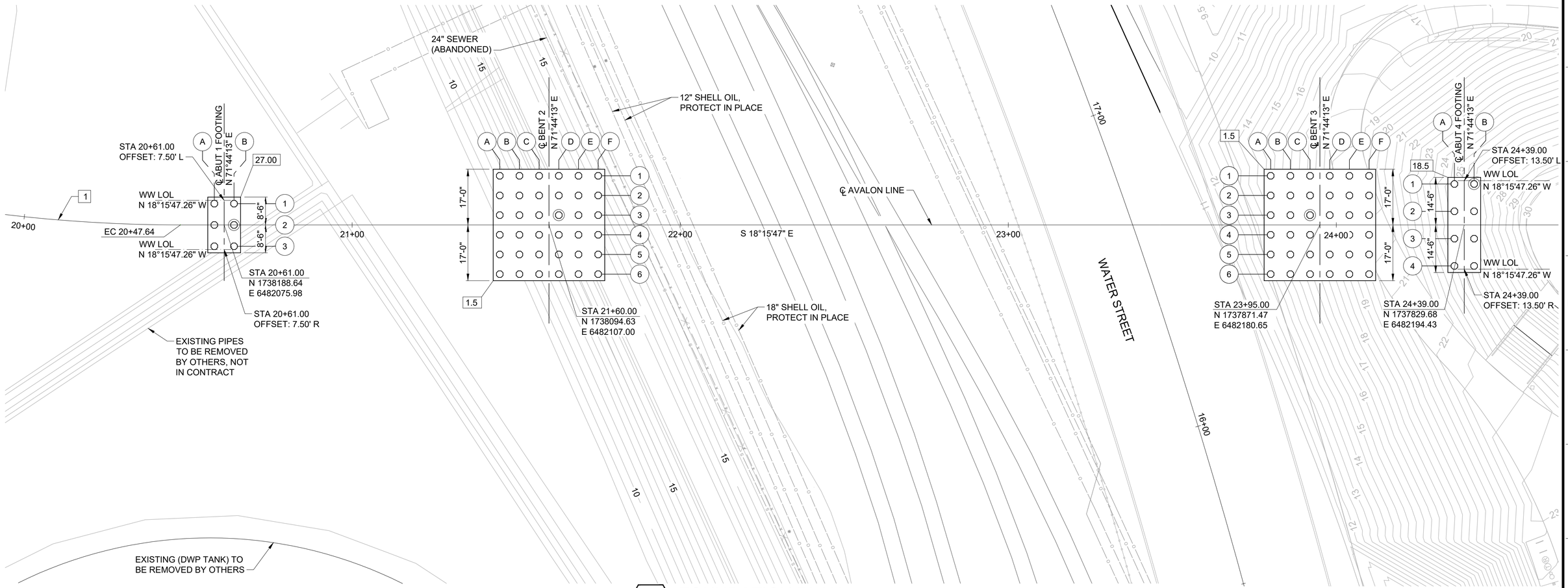
1. DESIGN TIP ELEVATIONS ARE CONTROLLED BY: (a-I) COMPRESSION (STRENGTH LIMIT), (a-II) COMPRESSION (EXTREME EVENT), (b-I) TENSION (STRENGTH LIMIT), (b-II) TENSION (EXTREME EVENT), (c) SETTLEMENT, (d) LATERAL LOAD.
2. THE SPECIFIED TIP ELEVATION SHALL NOT BE RAISED ABOVE THE DESIGN TIP ELEVATIONS FOR TENSION, LATERAL, AND TOLERABLE SETTLEMENT.
3. SCOUR WAS NOT A DESIGN CONSIDERATION.

FOUNDATION NOTES:

1. EASTERLY DWP TANK, ABOVE GROUND LINES AND APPURTENANCES TO BE REMOVED.
2. UTILITIES SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR BEFORE BEGIN OF WORK.
3. UTILITIES SHALL BE PROTECTED IN PLACE, UNLESS NOTED OTHERWISE.
4. FOR UTILITY DETAILS, SEE SHEET S-088.
5. FOR ABUTMENT PILE LAYOUT DETAILS, SEE SHEETS S-012 THROUGH S-018.
6. GROUNDWATER IS EXPECTED FOR FOOTING CONSTRUCTION. DEWATERING MAY BE REQUIRED.
7. PRODUCTION PILES SHALL NOT BE DRIVEN UNTIL PILE DRIVING CRITERIA ARE DEVELOPED BY THE ENGINEER BASED ON INDICATOR PILE RESULTS.
8. SOIL REPORT APPROVAL LETTER IS AVAILABLE IN THE PROJECT SPECIFICATIONS.

LEGEND:

- ○ 24" OCTAGONAL PC/PS PILE
- XX.XX BOTTOM OF FOOTING ELEVATION
- ◎ INDICATOR PILE LOCATION



NOTE:

CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

1S-010 / S-010 **FOUNDATION PLAN**
SCALE: 1" = 15'

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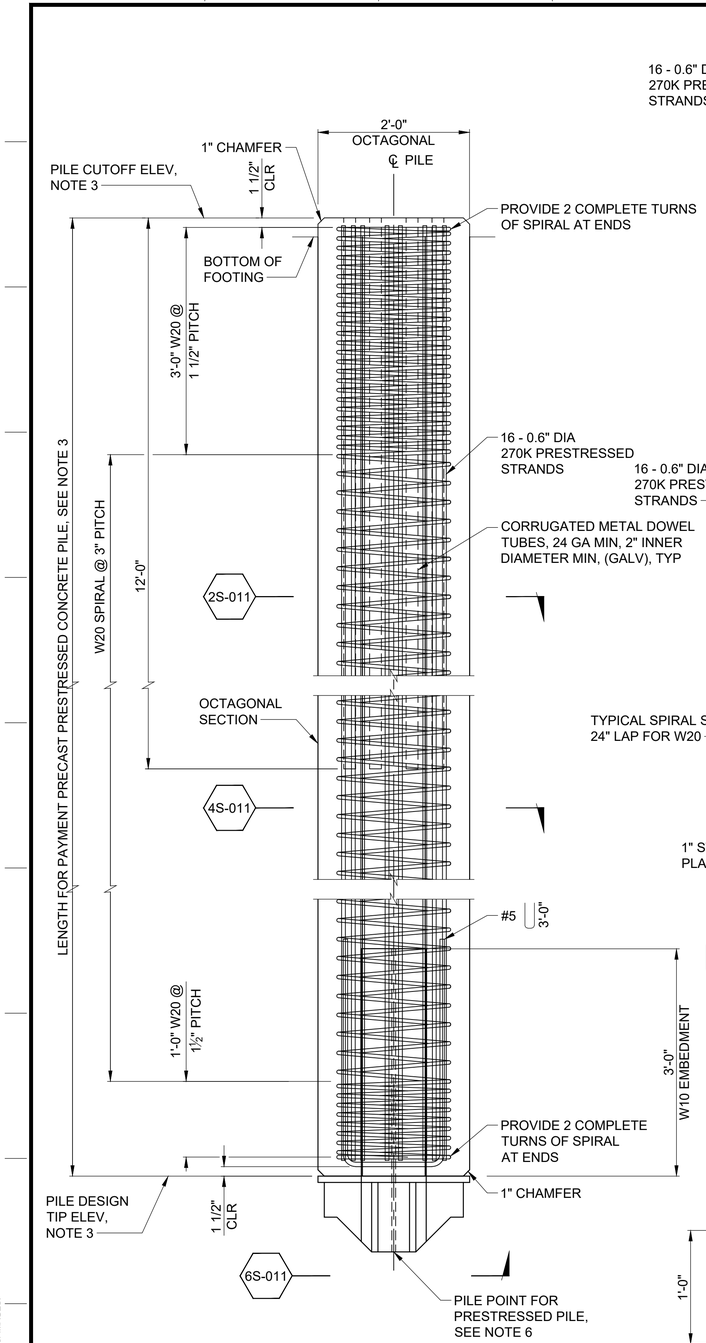
AVALON PEDESTRIAN BRIDGE

FOUNDATION PLAN

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

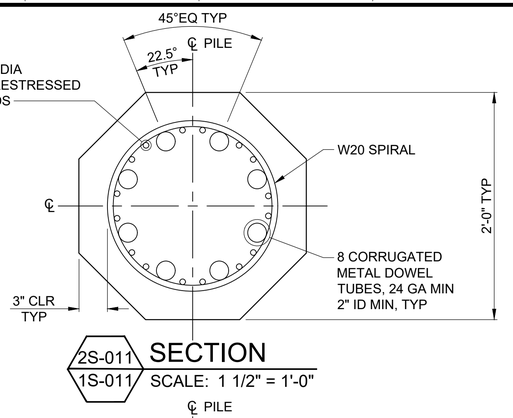
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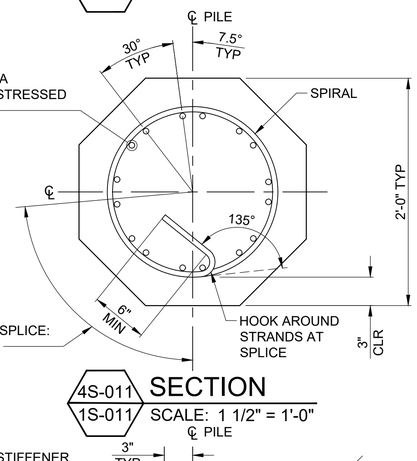
1S-011 / S-011 PRECAST PRESTRESSED CONCRETE PILE

SCALE: 1" = 1'-0"



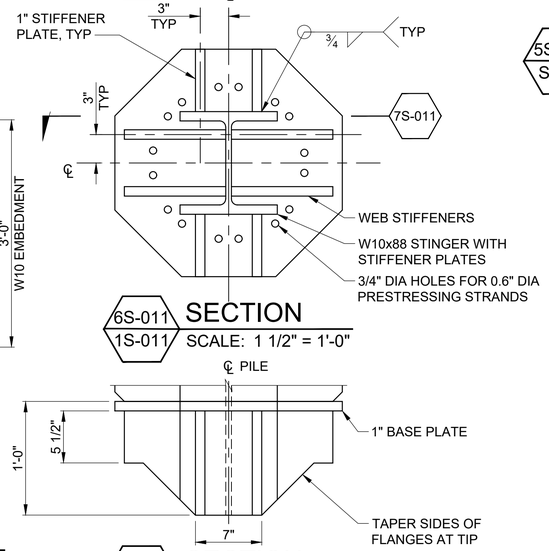
2S-011 / 1S-011 SECTION

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



4S-011 / 1S-011 SECTION

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

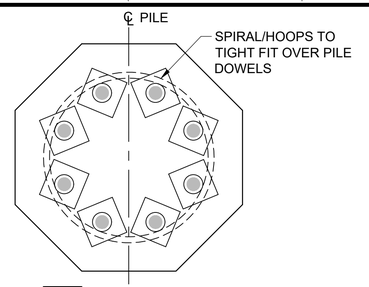


6S-011 / 1S-011 SECTION

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

7S-011 / 6S-011 SECTION

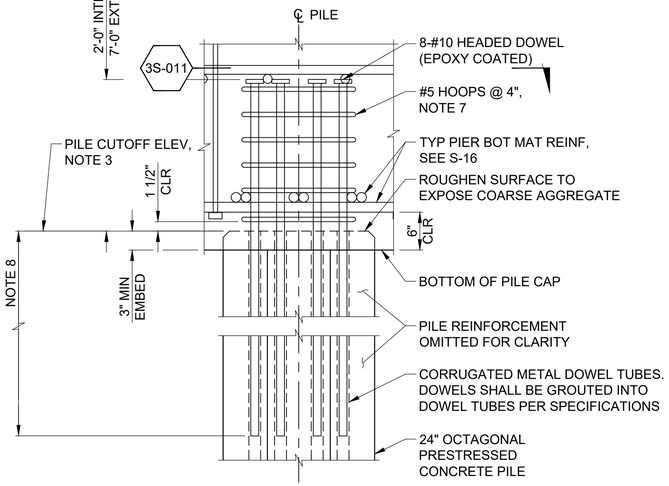
SCALE: 1 1/2" = 1'-0"



3S-011 / 5S-011 SECTION

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

2'-0" INTERIOR PILES
7'-0" EXTERIOR PILES



5S-011 / S-011 PIER PILE DOWEL DETAIL

SCALE: 1" = 1'-0"

PILE NOTES:

1. FOR GENERAL NOTES, SEE SHEET S-003.
2. JACKING FORCE STRAND SHALL BE 70% ULTIMATE = 41 kips
   ASSUMED LOSSES 35,000 psi = 7.6 kips
   WORKING FORCE PER STRAND = 33.4 kips
   EFFECTIVE PRESTRESS = 1195 psi
3. DESIGN PILE TIP ELEVATIONS AND CUTOFF ELEVATIONS, SEE SHEET S-010.
4. PRESTRESSED CONCRETE PILE SHALL BE DRIVEN TO PILE TIP ELEVATION OR REFUSAL PER SPECIFICATIONS SECTION 02458 PRESTRESSED CONCRETE PILES.
5. JETTING FOR PILE INSTALLATION SHALL NOT BE ALLOWED
6. PILE POINTS FOR PRESTRESSED PILES REQUIRED, PILE POINT SHALL BE MANUFACTURED PER CONTRACTORS REQUIREMENTS BASED ON THE DETAILS PROVIDED.
7. ALL HOOPS SHALL BE "ULTIMATE" BUTT SPLICE CONTINUOUS.
8. IF NO CORRUGATED METAL TUBING REMAINS AFTER CUT-OFF, DRILL 2" DIAMETER HOLES AND GROUT DOWELS USING NON-SHRINK GROUT, IF A PORTION OF THE CORRUGATED METAL TUBING REMAINS AFTER CUT-OFF, DRILL 1 1'2" DIAMETER HOLES. FOR GROUTING DOWELS, DOWEL TUBES SHALL BE FILLED WITHIN 2 FT FROM TOP WITH GROUT MATERIAL. PLACE DOWELS IMMEDIATELY AFTER GROUTING. MINIMUM DOWEL EMBEDMENT LENGTH IS MEASURED FROM TOP OF CUT-OFF.
9. PILE POINT SHALL CONFORM TO ASTM A36.
10. ONCE THE PILE IS DRIVEN, THE CONTRACTOR SHALL NOT APPLY ANY LATERAL FORCE TOT THE PILE.

8S-011 / S-011 ABUTMENT PILE DOWEL DETAIL

SCALE: 1" = 1'-0"

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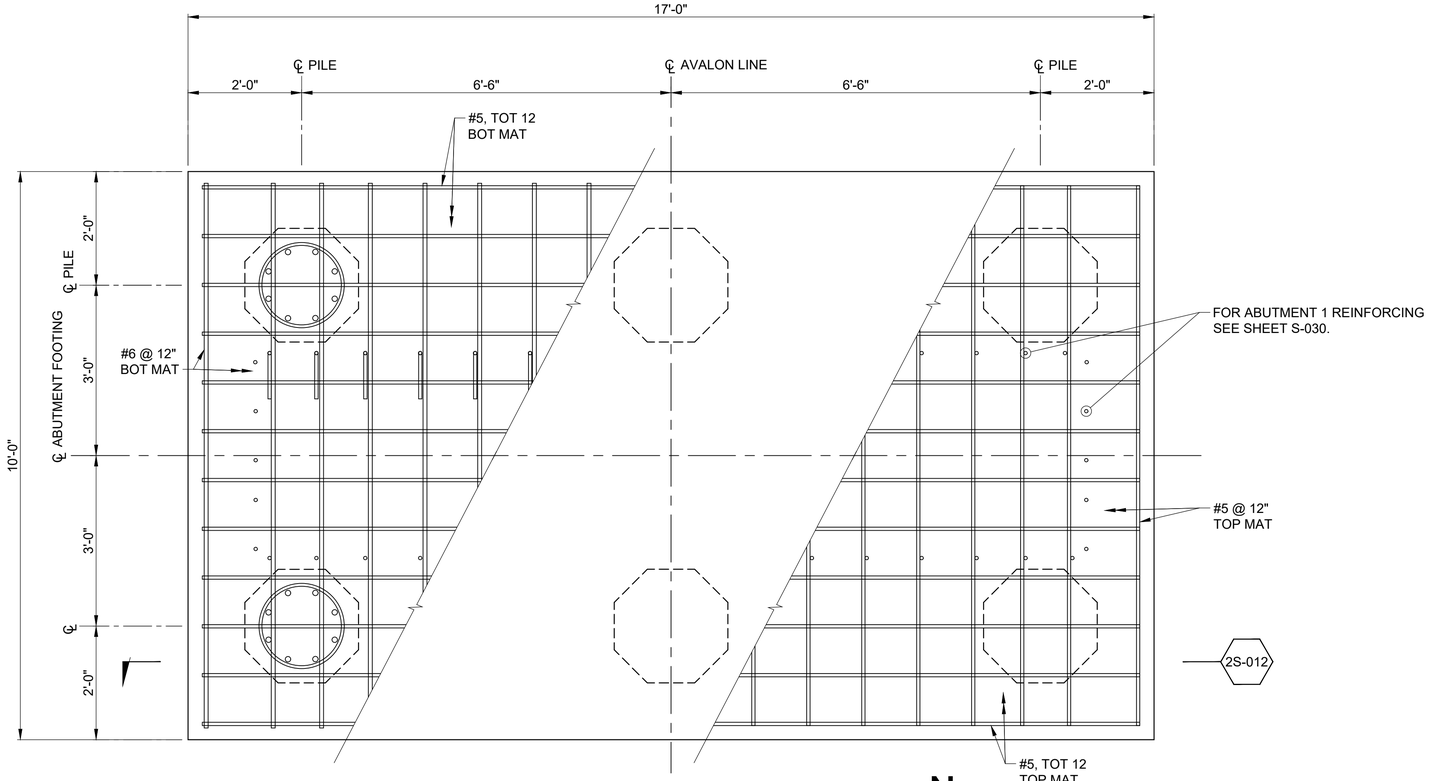
AVALON PEDESTRIAN BRIDGE

PILE DETAILS

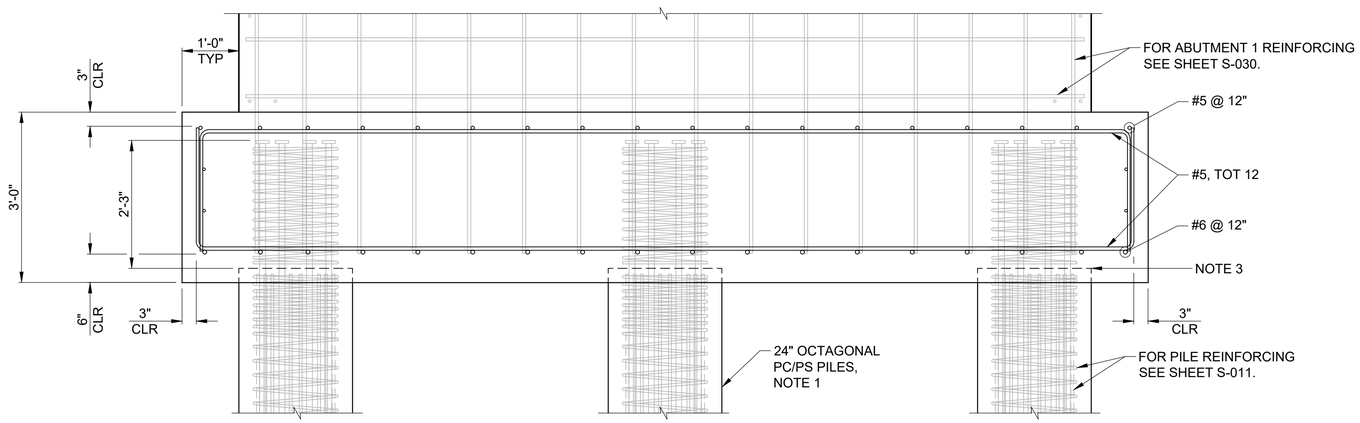
THE PORT OF LOS ANGELES
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DRAWING NUMBER: 1-3302
SHEET NUMBER: S-011

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DATE: Oct 30, 2024 4:04 PM XREFS:XREF_PoLA_Border IMAGES:
POLAPRO1_102012_R.B.



1S-012 / S-012 ABUTMENT 1 FOOTING PLAN
SCALE: 3/4" = 1'-0"



2S-012 / S-012 SECTION
SCALE: 3/4" = 1'-0"

NOTES:

1. FOR OCTAGONAL PC/PC PILE DETAILS, SEE SHEET S-011.
2. FOR ABUTMENT 1 DETAILS NOT SHOWN, SEE SHEET S-030.
3. FOR BOTTOM OF FOOTING AND PILE CUTOFF ELEVATIONS, SEE SHEET S-010.

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NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

REGISTERED PROFESSIONAL ENGINEER
DANIEL J FITZWILLIAM
No. 58937
Exp. 6/30/2025
CIVIL
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NOT FOR CONSTRUCTION

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PHONE(213) 946-7960

SCALE: AS NOTED
DRAWN: R. STONE
CHECKED: R. KELLY
DESIGNED: K. GHOSH
ENGINEER / ARCHITECT

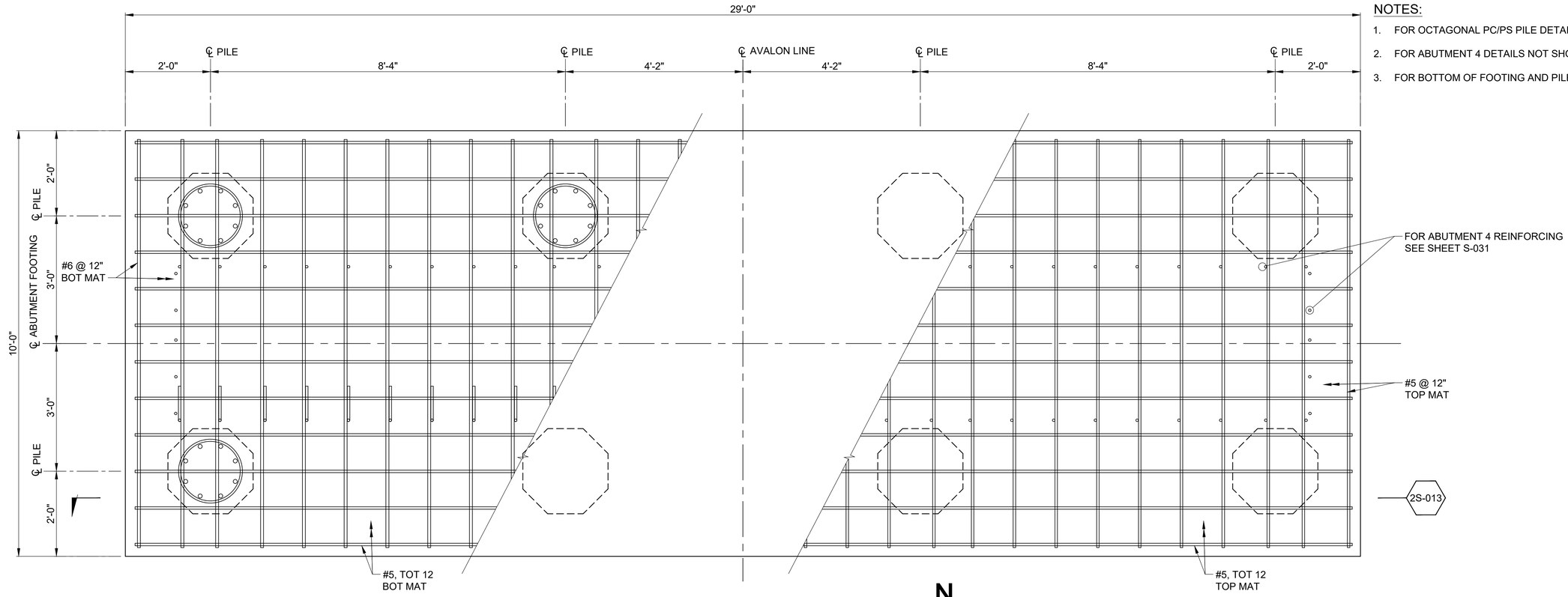
AVALON PEDESTRIAN BRIDGE

ABUTMENT FOUNDATION DETAILS 1

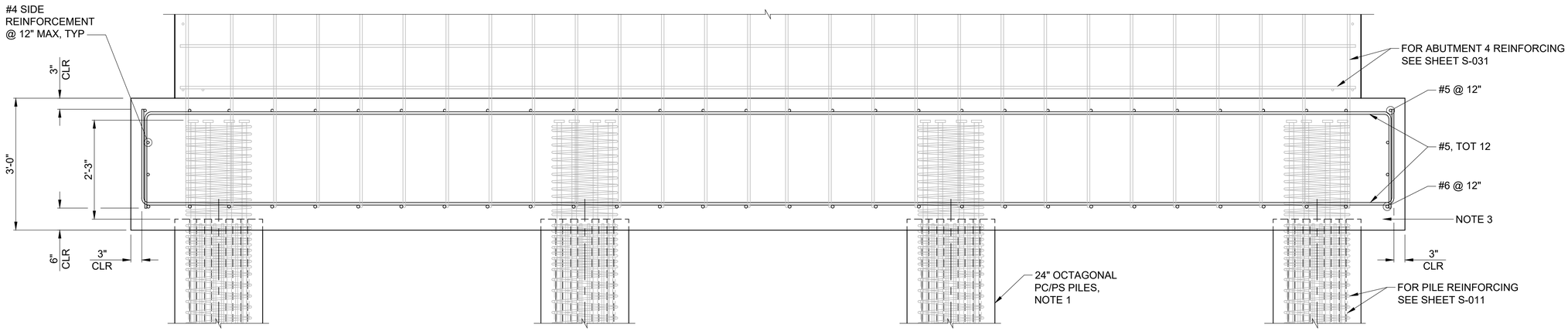
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3302
SHEET NUMBER: S-012

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DATE: Oct. 30, 2024 4:04 PM XREFS:XREF_PoLA_Border IMAGES:
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1S-013 / S-013 ABUTMENT 4 FOOTING PLAN
SCALE: 3/4" = 1'-0"



2S-013 / S-013 SECTION
SCALE: 3/4" = 1'-0"

NOTES:

1. FOR OCTAGONAL PC/PS PILE DETAILS, SEE SHEET S-011.
2. FOR ABUTMENT 4 DETAILS NOT SHOWN, SEE SHEET S-031.
3. FOR BOTTOM OF FOOTING AND PILE CUTOFF ELEVATIONS, SEE SHEET S-010.

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SCALE: AS NOTED
DRAWN: R. STONE
CHECKED: R. KELLY
DESIGNED: K. GHOSH
ENGINEER / ARCHITECT

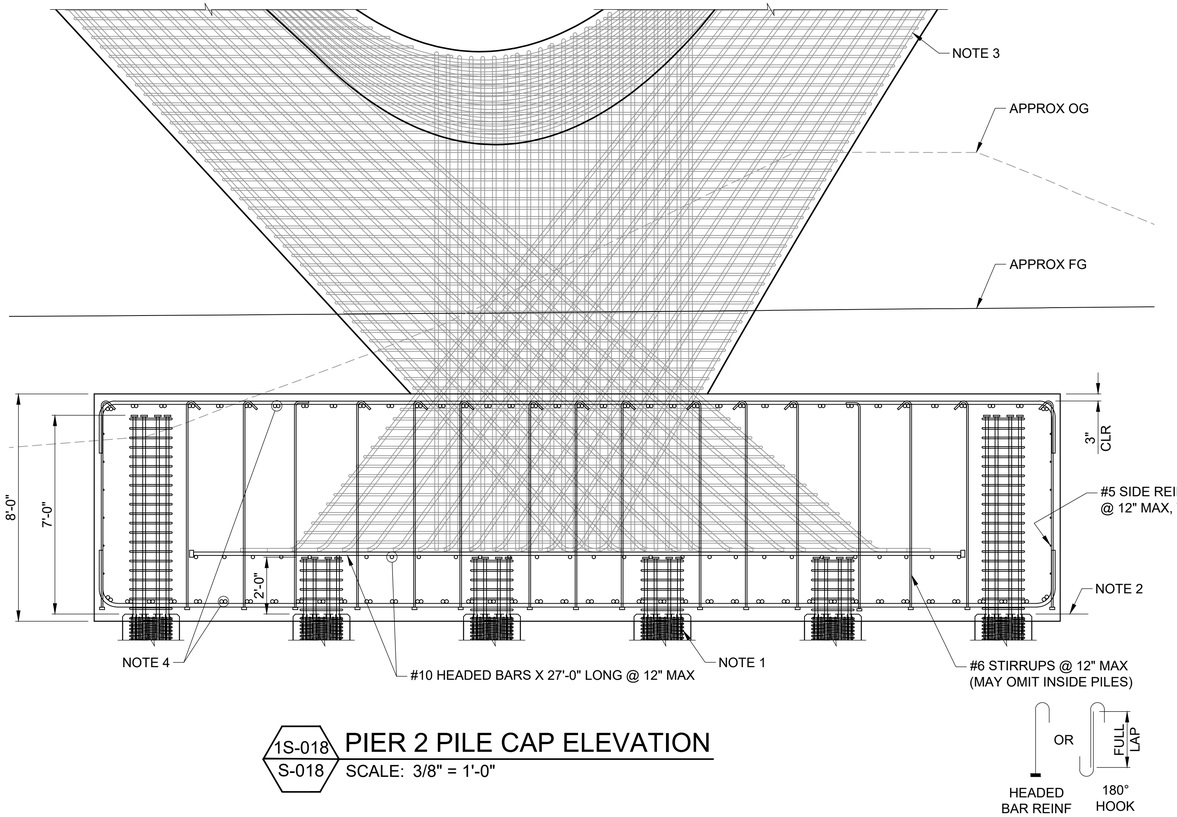
AVALON PEDESTRIAN BRIDGE

ABUTMENT FOUNDATION DETAILS 2

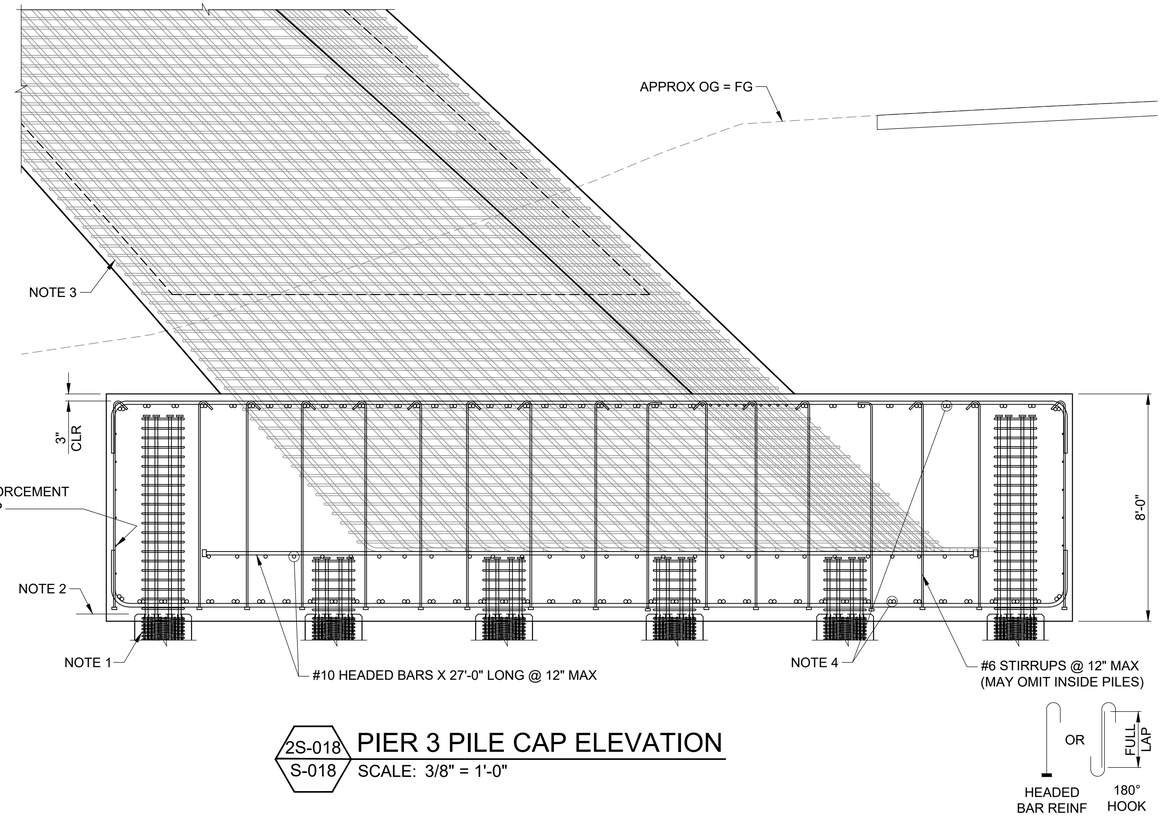
THE PORT OF LOS ANGELES
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425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3302
SHEET NUMBER: S-013

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DATE: Oct. 30, 2024 4:04 PM XREFS:XREF_PoLA_Border IMAGES:
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1S-018 / S-018 PIER 2 PILE CAP ELEVATION
SCALE: 3/8" = 1'-0"



2S-018 / S-018 PIER 3 PILE CAP ELEVATION
SCALE: 3/8" = 1'-0"

NOTES:

1. FOR OCTAGONAL PC/PS DETAILS, SEE SHEET S-011.
2. FOR BOTTOM OF FOOTING AND PILE CUTOFF ELEVATIONS, SEE SHEET S-010.
3. FOR ARCH REINFORCEMENT DETAILS, SEE SHEETS S-050 THROUGH S-052.
4. FOR FOOTING REINFORCEMENT DETAILS, SEE SHEETS S-016 AND S-017.
5. ARCH REINFORCEMENT LOCATION SHALL TAKE PRECEDENCE OVER FOOTING TOP MAT REINFORCING. CONFLICTS THAT REQUIRE MOVING TOP MAT MORE THAN 2 BAR DIAMETERS REQUIRE APPROVAL BY THE ENGINEER.

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SCALE:	AS NOTED
DRAWN:	R. STONE
CHECKED:	R. KELLY
DESIGNED:	K. GHOSH
	ENGINEER / ARCHITECT

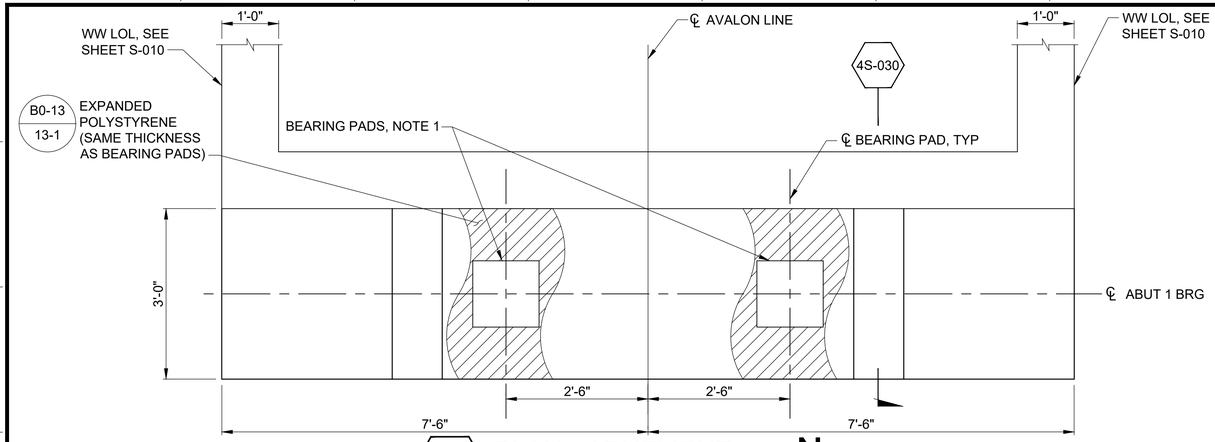
AVALON PEDESTRIAN BRIDGE

PIER FOUNDATION DETAILS 3

THE PORT OF LOS ANGELES
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425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER	SHEET NUMBER
1-3302	S-018

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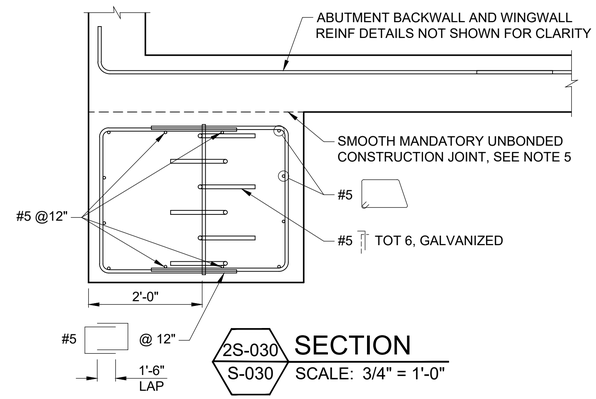


1S-030 / S-030 PLAN - ABUTMENT 1
SCALE: 3/4" = 1'-0"

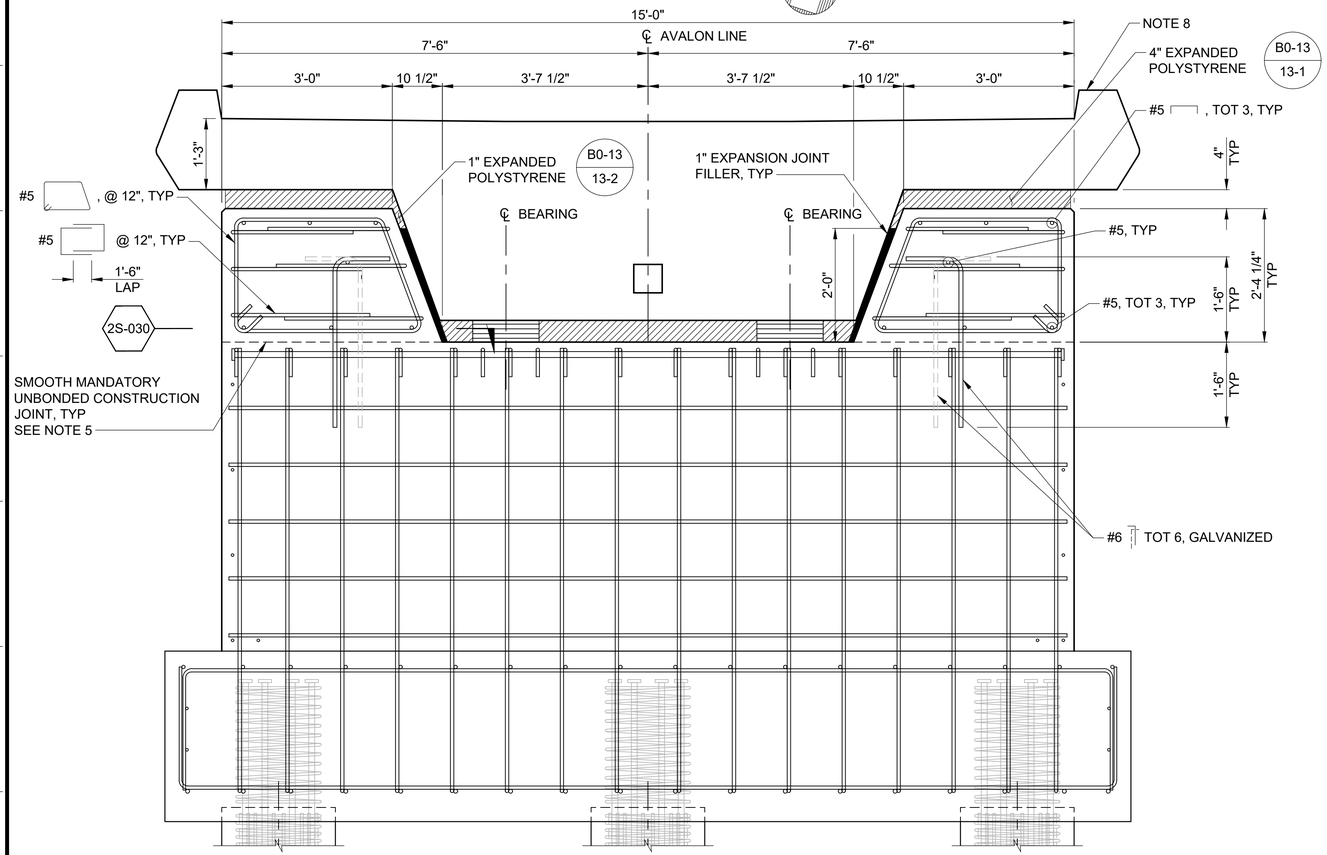
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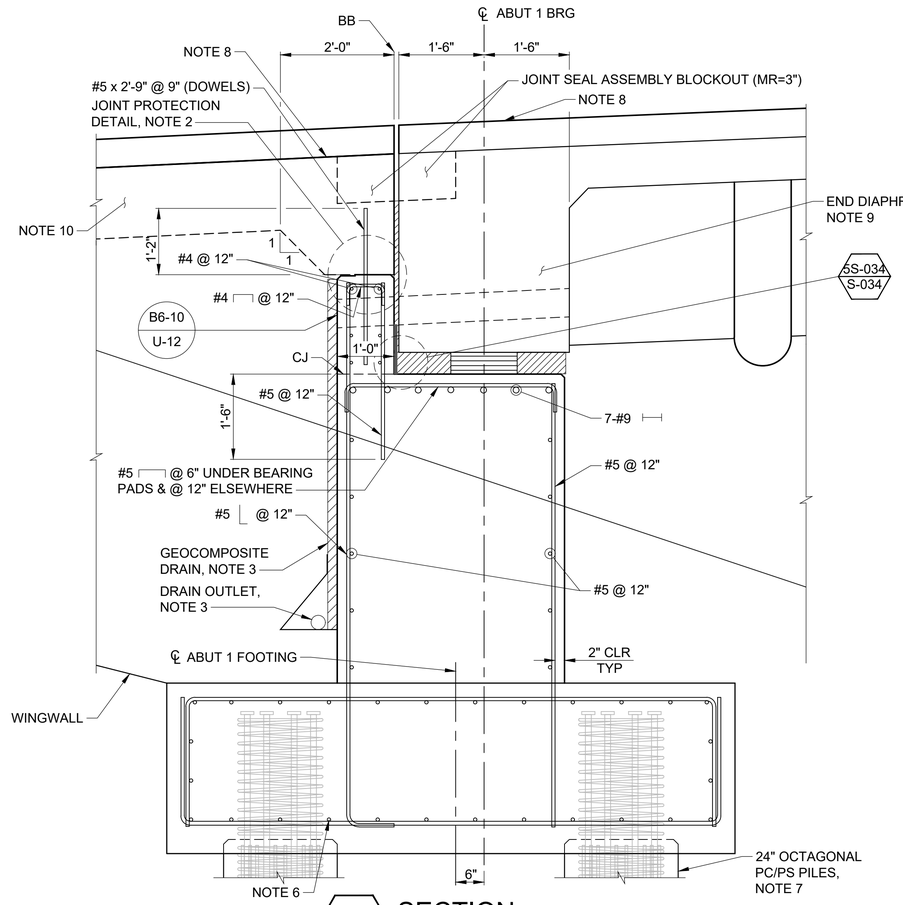
1. FOR BEARING PAD DETAILS, SEE SHEET S-034.
2. FOR JOINT PROTECTION DETAIL AND DETAIL 1, SEE SHEET S-034.
3. FOR DRAIN OUTLET AND GEOCOMPOSITE DRAIN DETAILS, SEE SHEET S-035.
4. FOR WINGWALL DETAILS, SEE SHEET S-033.
5. MANDATORY CONSTRUCTION JOINT WITH SMOOTH FINISH SURFACE AND LINED WITH 15 LB BUILDING PAPER.
6. FOR FOOTING REINFORCEMENT DETAILS, SEE SHEETS S-012 AND S-013.
7. FOR OCTAGONAL PC/PC PILE DETAILS, SEE SHEET S-011.
8. PEDESTRIAN RAIL OMITTED FOR CLARITY, FOR PEDESTRIAN RAIL DETAILS, SEE SHEETS S-090 THROUGH S-094.
9. FOR REINFORCEMENT DETAILS IN ABUTMENT END DIAPHRAGM, SEE SHEET S-032.
10. FOR APPROACH SLAB, SEE SHEETS S-075 AND S-076.
11. FOR JOINT SEAL, SEE SHEET S-081.



2S-030 / S-030 SECTION
SCALE: 3/4" = 1'-0"



3S-030 / S-030 ELEVATION
SCALE: 3/4" = 1'-0"



4S-030 / S-030 SECTION
SCALE: 3/4" = 1'-0"

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ENGINEER / ARCHITECT

SCALE: AS NOTED
DRAWN: R. ELWOOD
CHECKED: R. KELLY
DESIGNED: K. GHOSH

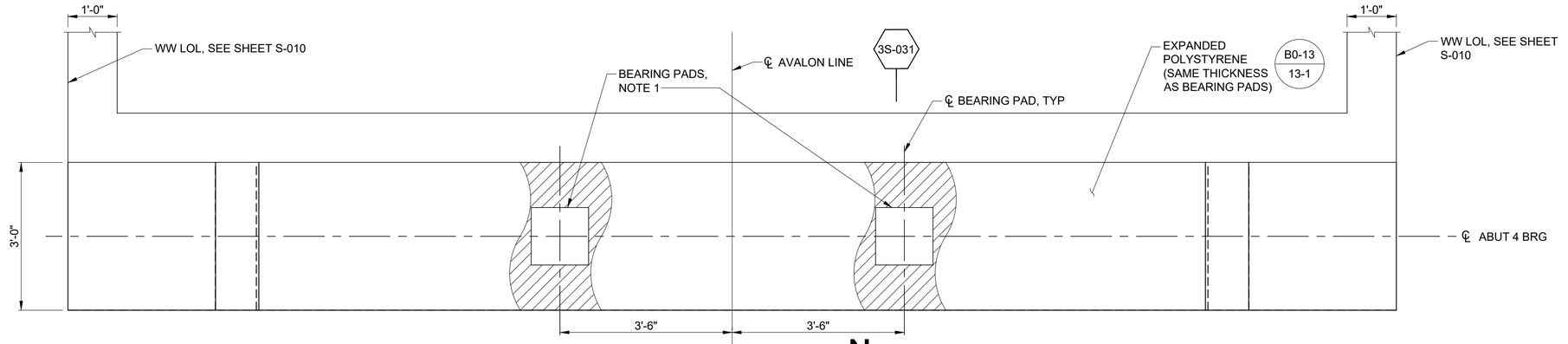
AVALON PEDESTRIAN BRIDGE

ABUTMENT LAYOUT 1

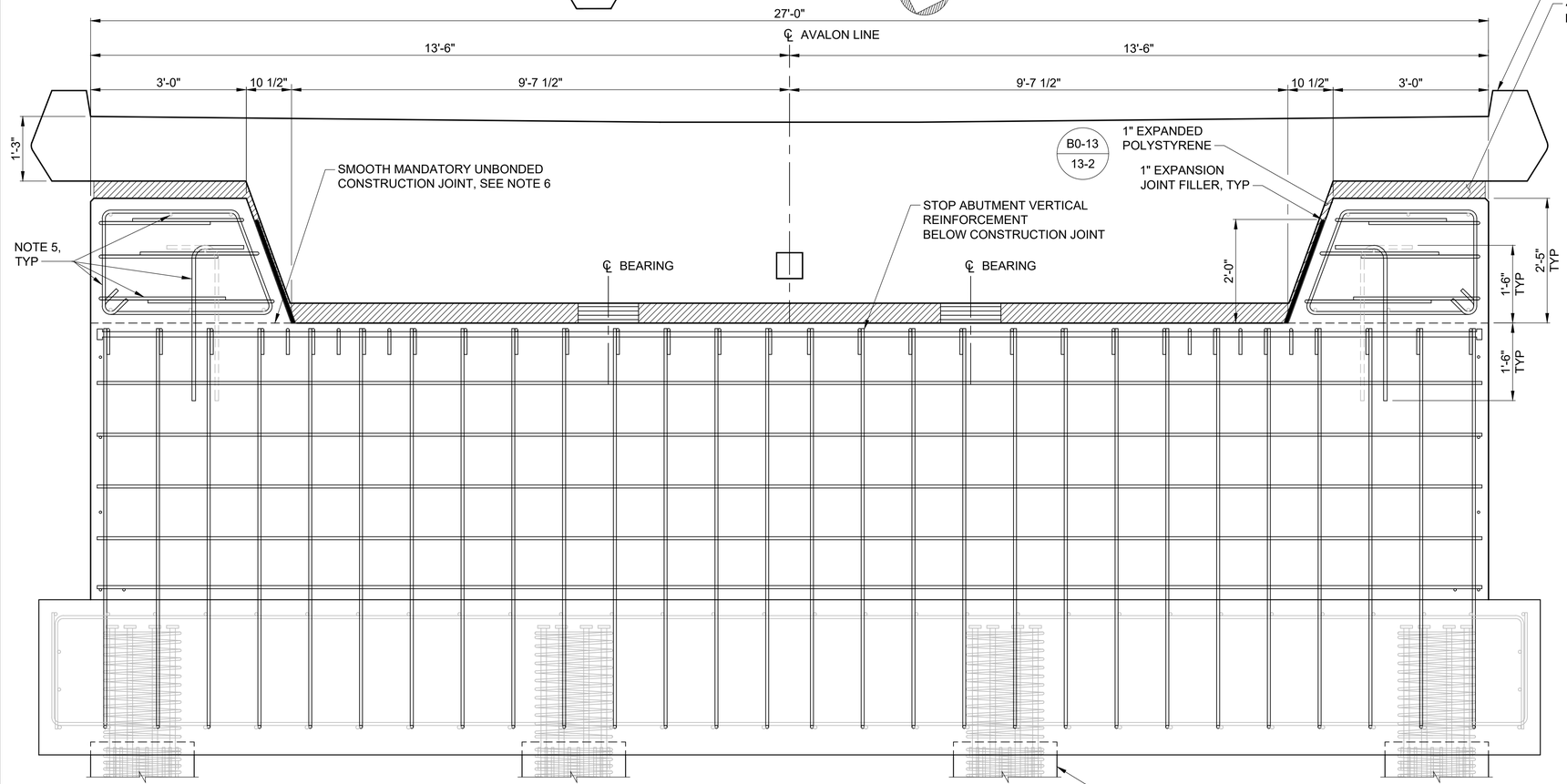
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3302
SHEET NUMBER: S-030

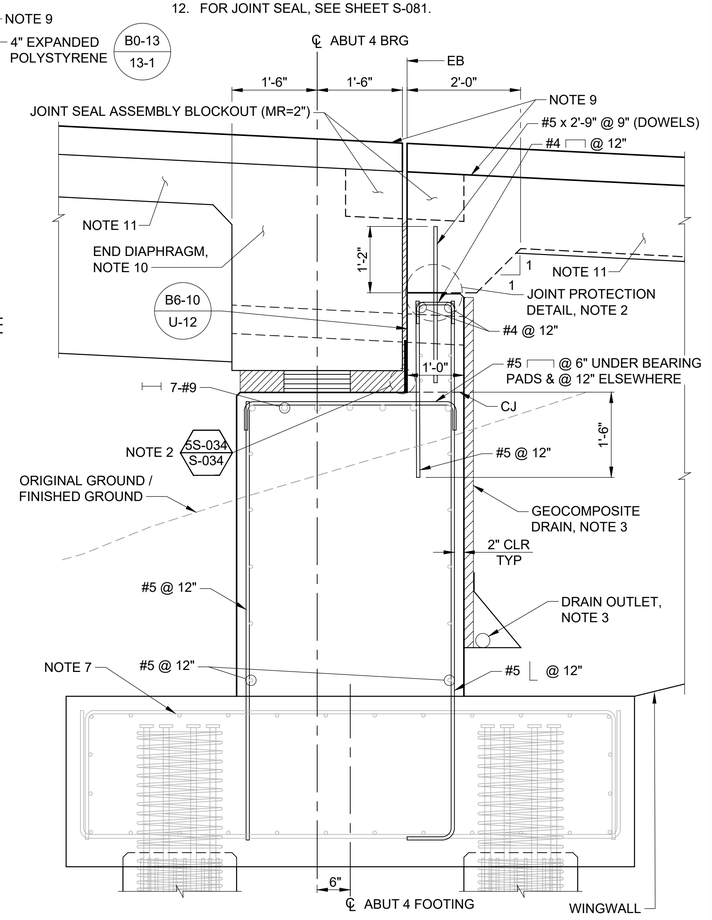
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DATE: Oct. 30, 2024 4:04 PM XREFS:XREF_PoLA_Border IMAGES:
POLAPRDT_102012_R.B.



1S-031 / S-031 **PLAN - ABUTMENT 4**
SCALE: 3/4" = 1'-0"



2S-031 / S-031 **ELEVATION**
SCALE: 3/4" = 1'-0"



3S-031 / 1S-031 **SECTION**
SCALE: 3/4" = 1'-0"

NOTES:

1. FOR BEARING PAD DETAILS, SEE SHEET S-034.
2. FOR JOINT PROTECTION DETAIL AND DETAIL 1, SEE SHEET S-034.
3. FOR DRAIN OUTLET AND GEOCOMPOSITE DRAIN DETAILS, SEE SHEET S-035.
4. FOR WINGWALL DETAILS, SEE SHEET S-033.
5. FOR SHEAR KEY REINFORCING, SEE SHEET S-030.
6. MANDATORY CONSTRUCTION JOINT WITH SMOOTH FINISH SURFACE AND LINED WITH 15 LB BUILDING PAPER.
7. FOR FOOTING REINFORCEMENT DETAILS, SEE SHEETS S-012 AND S-013.
8. FOR OCTAGONAL PC/PC PILE DETAILS, SEE SHEET S-011.
9. PEDESTRIAN RAIL OMITTED FOR CLARITY, FOR PEDESTRIAN RAIL DETAILS, SEE SHEET NOS S-090 THROUGH S-094
10. FOR REINFORCEMENT DETAILS IN ABUTMENT END DIAPHRAGM, SEE SHEET S-032.
11. FOR APPROACH SLAB DETAILS, SEE SHEETS S-075 AND S-076.
12. FOR JOINT SEAL, SEE SHEET S-081.

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NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

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SCALE:	AS NOTED
DRAWN:	R. ELWOOD
CHECKED:	R. KELLY
DESIGNED:	K. GHOSH
	ENGINEER / ARCHITECT

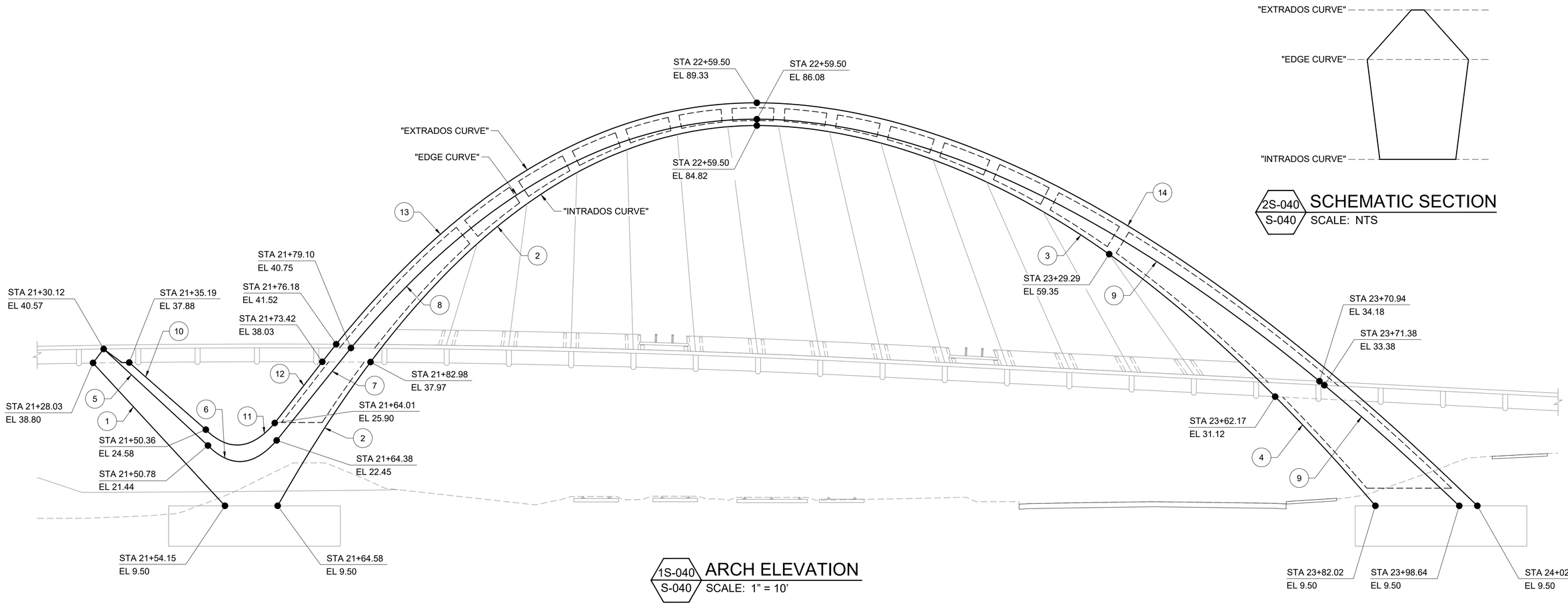
AVALON PEDESTRIAN BRIDGE

ABUTMENT LAYOUT 2

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER	SHEET NUMBER
1-3302	S-031

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DATE: Oct. 30, 2024 4:04 PM XREFS:XREF_PoLA_Border IMAGES:
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1S-040 / S-040 **ARCH ELEVATION**
SCALE: 1" = 10'

2S-040 / S-040 **SCHEMATIC SECTION**
SCALE: NTS

ARCH ELEVATION CURVE TABLE					
CURVE SEGMENT	CURVE	CURVE TYPE	STATION RANGE BEGIN	STATION RANGE END	EQUATION EL = f(STA)
1	"INTRADOS CURVE"	LINEAR	21+28.03	21+54.15	LINEAR
2	"INTRADOS CURVE"	POLYNOMIAL	21+64.58	22+59.50	EL = a*(X)4+b*(X)3+c*(X)2+d*(X)+e
3	"INTRADOS CURVE"	POLYNOMIAL	22+59.50	23+29.29	EL = a*(X)4+b*(X)3+c*(X)2+d*(X)+e
4	"INTRADOS CURVE"	POLYNOMIAL	23+29.29	23+82.02	EL = a*(X)4+b*(X)3+c*(X)2+d*(X)+e
5	"EDGE CURVE"	LINEAR	21+30.12	21+50.78	LINEAR
6	"EDGE CURVE"	PARABOLIC	21+50.78	21+64.38	EL = (a)*(X)2+(b)*(X)+c
7	"EDGE CURVE"	LINEAR	21+64.38	21+79.10	LINEAR
8	"EDGE CURVE"	POLYNOMIAL	21+79.10	22+59.50	EL = a*(X)4+b*(X)3+c*(X)2+d*(X)+e
9	"EDGE CURVE"	POLYNOMIAL	22+59.50	23+98.64	EL = a*(X)4+b*(X)3+c*(X)2+d*(X)+e
10	"EXTRADOS CURVE"	LINEAR	21+35.19	21+50.36	LINEAR
11	"EXTRADOS CURVE"	PARABOLIC	21+50.36	21+64.01	EL = (a)*(X)2+(b)*(X)+c
12	"EXTRADOS CURVE"	LINEAR	21+64.01	21+73.42	LINEAR
13	"EXTRADOS CURVE"	POLYNOMIAL	21+76.18	22+59.50	EL = a*(X)4+b*(X)3+c*(X)2+d*(X)+e
14	"EXTRADOS CURVE"	POLYNOMIAL	22+59.50	24+02.22	EL = a*(X)4+b*(X)3+c*(X)2+d*(X)+e

X = STATION ALONG AVALON LINE - 2100 (X=STA-2100)

POLYNOMIAL COEFFICIENT TABLE					
CURVE SEGMENT	a	b	c	d	e
2	-0.000000053622338	0.000044510833655	-0.020011726039848	3.857045652455880	-167.183246687808000
3	-0.000000014830524	0.000115319315786	-0.039156839465449	6.037624615067440	-256.216005958428000
4	-0.000000003961244	0.000007938907282	-0.008937596032069	2.329965357339460	-89.759119246620700
6	0.079005547709026	-9.024014168289080	275.955070496625000	-	-
8	-0.000000015945036	0.000019260986060	-0.012985139000450	2.929125963620150	-118.606630451604000
9	-0.000000024235118	0.000029137652507	-0.015580293102839	3.132427287579810	-119.723174847740000
11	0.078664538502744	-8.900159971855550	273.288591615497000	-	-
13	-0.000000026070186	0.000024991836361	-0.014005124414521	2.982075357907320	-114.555384306330000
14	-0.000000017041641	0.000022263310862	-0.013187054679514	2.775207017307950	-97.143521443969900

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SCALE: AS NOTED
DRAWN: R. ELWOOD
CHECKED: R. KELLY
DESIGNED: B. SOKOLOWSKI
ENGINEER / ARCHITECT

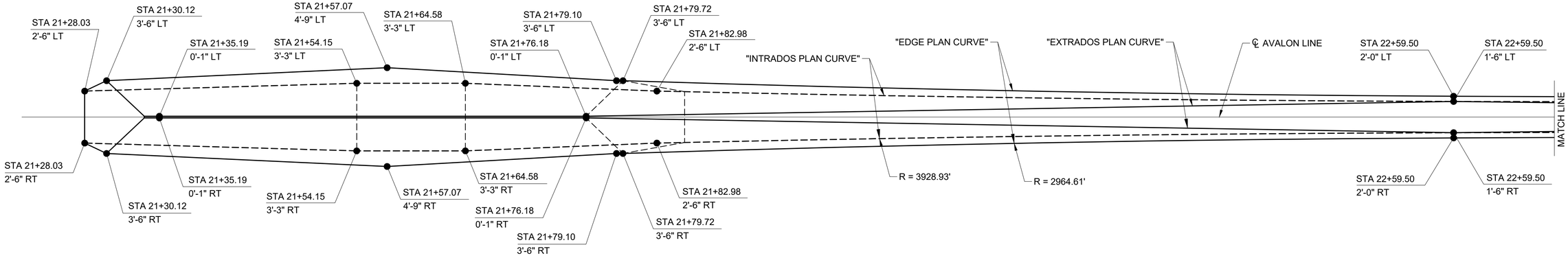
AVALON PEDESTRIAN BRIDGE

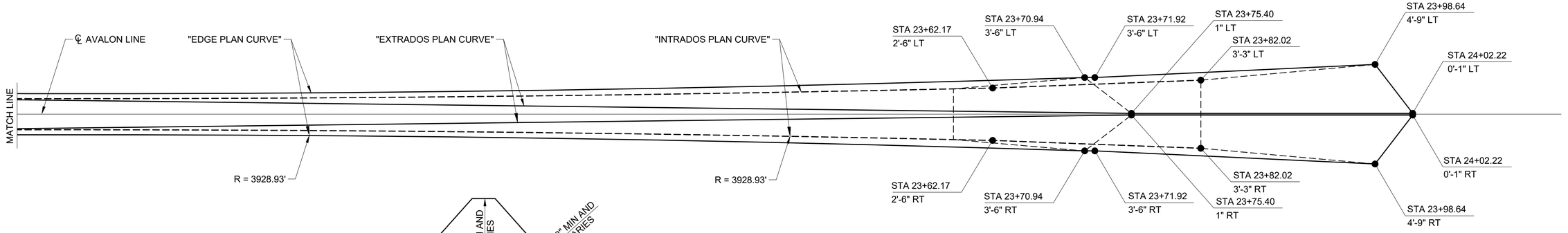
ARCH GEOMETRY 1

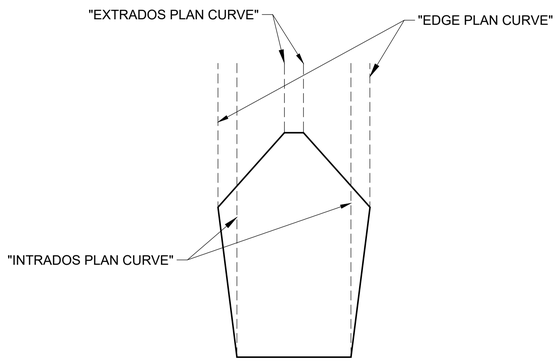
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3302
SHEET NUMBER: S-040

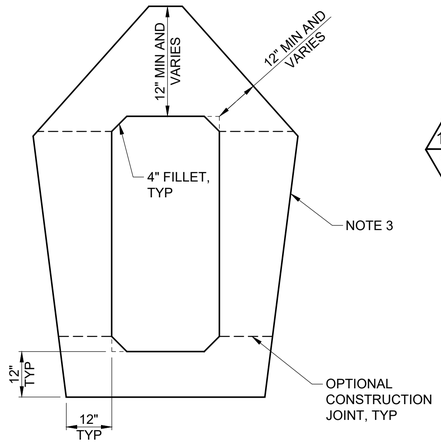
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DATE: Oct. 30, 2024 4:04 PM XREFS:XREF_PolA_Border IMAGES:
POLAPRO1_102212_R.B







2S-041 / S-041 SCHEMATIC SECTION
SCALE: NTS



3S-041 / S-041 ARCH TYPICAL SECTION
SCALE: NTS

1S-041 / S-041 ARCH PLAN
SCALE: 1" = 5'

N

NOTES:

1. EXTRADOS PLAN IS LINEAR BETWEEN POINTS SHOWN.
2. EDGE PLAN CURVE AND INTRADOS PLAN CURVE HAVE A CONSTANT RADIUS BETWEEN POINTS SHOWN ABOVE DECK AND ARE LINEAR BETWEEN POINTS SHOWN BELOW DECK.
3. EXTERIOR ARCH DIMENSIONS ARE CONTROLLED BY PLAN CURVES DEFINED ON "ARCH PLAN" DETAILS AND PROFILE CURVES DEFINED ON SHEET S-040.
4. PLAN GEOMETRY IS SYMMETRIC ABOUT CENTERLINE AVALON LINE.

100% CONSTRUCTION DOCUMENT

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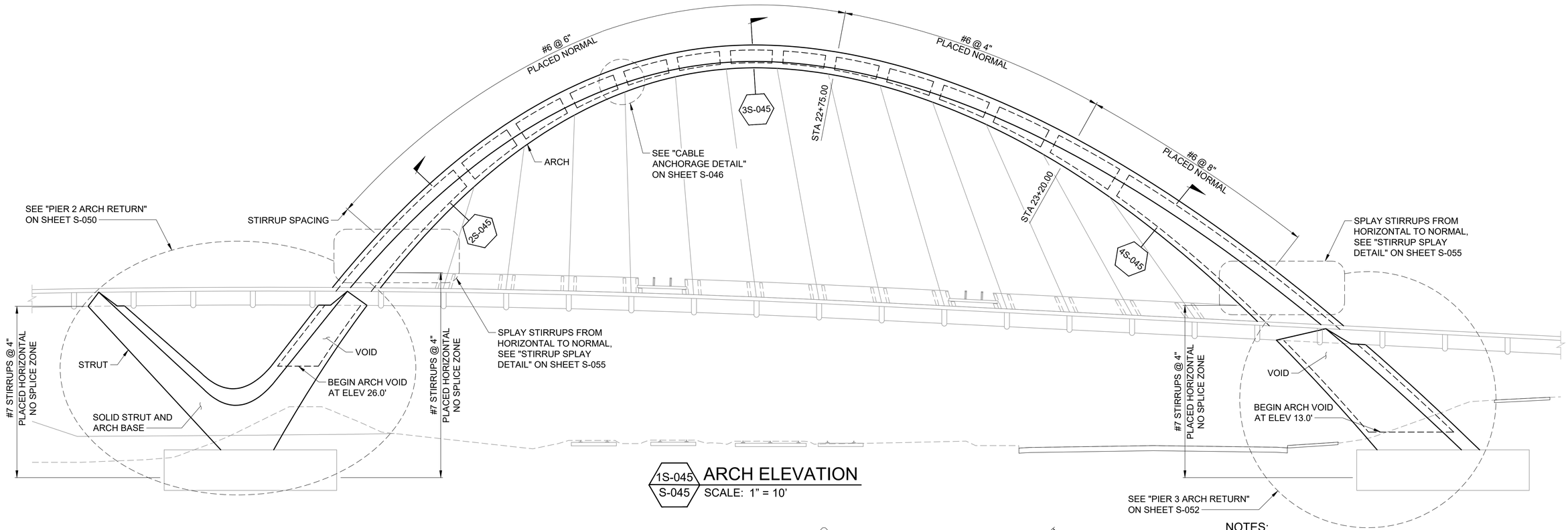
SCALE: AS NOTED
DRAWN: R. ELWOOD
CHECKED: R. KELLY
DESIGNED: B. SOKOLOWSKI
ENGINEER / ARCHITECT

AVALON PEDESTRIAN BRIDGE
ARCH GEOMETRY 2

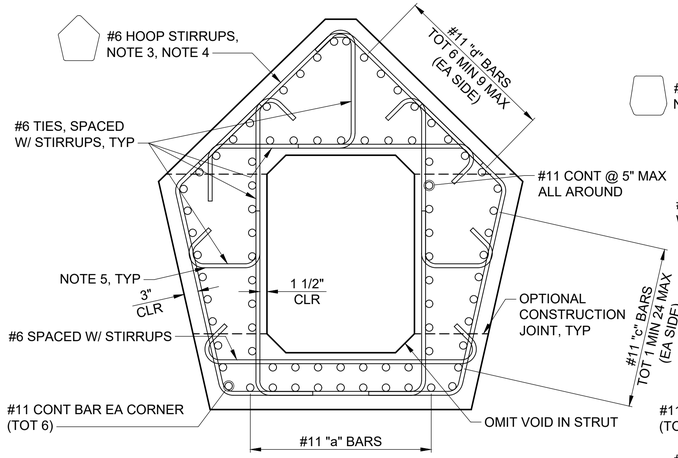
THE PORT OF LOS ANGELES
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425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3302
SHEET NUMBER S-041

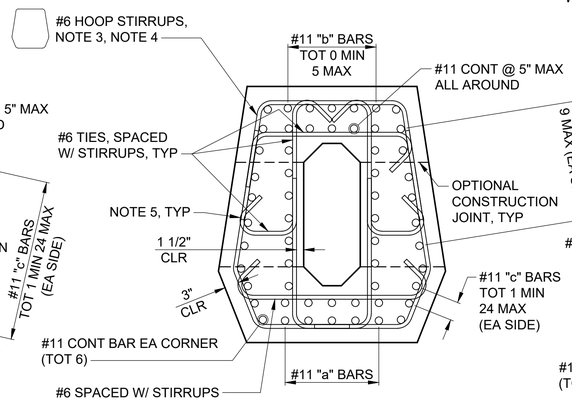
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POLAPR01_102012_R.B.



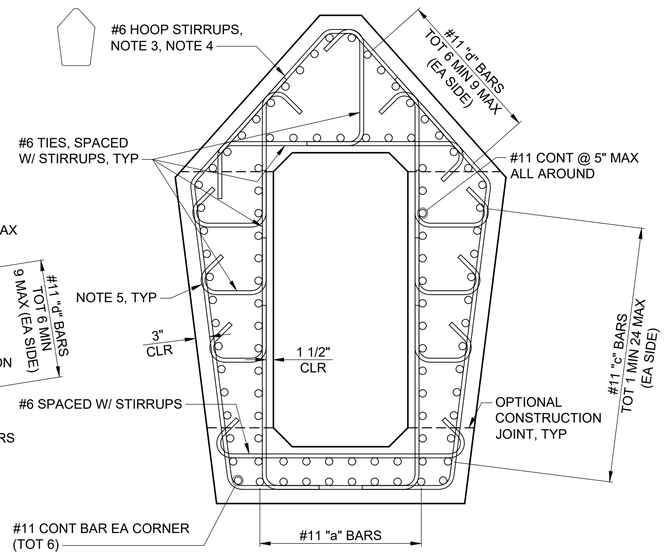
1S-045 / S-045 **ARCH ELEVATION**
SCALE: 1" = 10'



2S-045 / S-045 **SECTION**
SCALE: 3/4" = 1'-0"



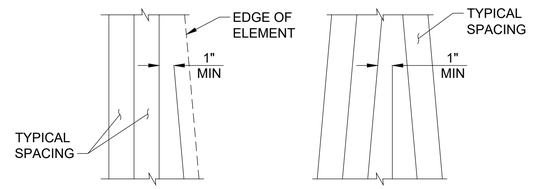
3S-045 / S-045 **SECTION**
SCALE: 3/4" = 1'-0"



4S-045 / S-045 **SECTION**
SCALE: 3/4" = 1'-0"

NOTES:

1. MAKE EVERY EFFORT TO MAINTAIN 3" CLEARANCE. DUE TO THE COMPLEXITY OF THE GEOMETRY, A MAXIMUM COVER OF 5" SHALL BE ALLOWED.
2. BARS "a", "b", "c", AND "d" SHALL BE SPACED AT 5" MAX AND 3 1/2" MIN, EXCEPT AT BAR TERMINATIONS. SEE BAR TERMINATION DETAILS. ONLY ONE BAR PER FACE MAY BE TERMINATED AT A TIME. TERMINATIONS SHALL BE STAGGERED BY 10'-0" MIN.
3. FOR STIRRUP AND TIE SPACING, SEE ARCH ELEVATION.
4. HOOP STIRRUP SHALL BE "ULTIMATE" BUTT SPLICE WELDED. WELD SHALL BE LOCATED IN THE MIDDLE OF THE LONGEST LEG.
5. TIES SHALL BE PLACED SUCH THAT NO LONGITUDINAL BAR IS GREATER THAN 24" FROM A TIED BAR. TIES SHALL BE PLACED WITH ALTERNATING HOOK DIRECTIONS.
6. FOR ARCH DIMENSIONS, SEE SHEETS S-040 AND S-041.
7. ARCH LONGITUDINAL REINFORCEMENT SHALL BE MADE CONTINUOUS WITH MECHANICAL SERVICE SPLICES.



5S-045 / S-045 **BAR TERMINATION DETAILS**
SCALE: 1" = 1'-0"

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NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

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SCALE: AS NOTED
DRAWN: R. ELWOOD
CHECKED: R. KELLY
DESIGNED: B. SOKOLOWSKI
ENGINEER / ARCHITECT

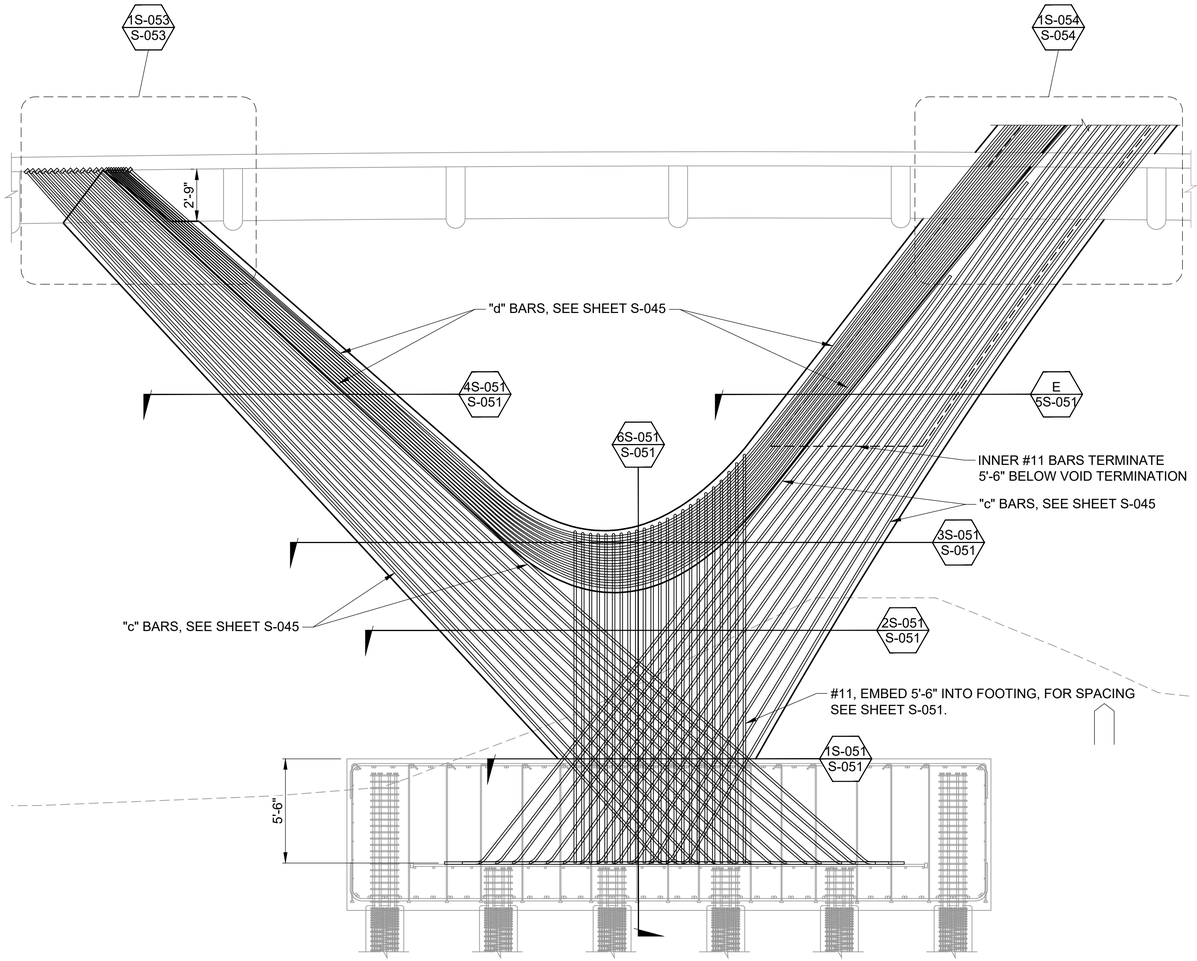
AVALON PEDESTRIAN BRIDGE

ARCH DETAILS

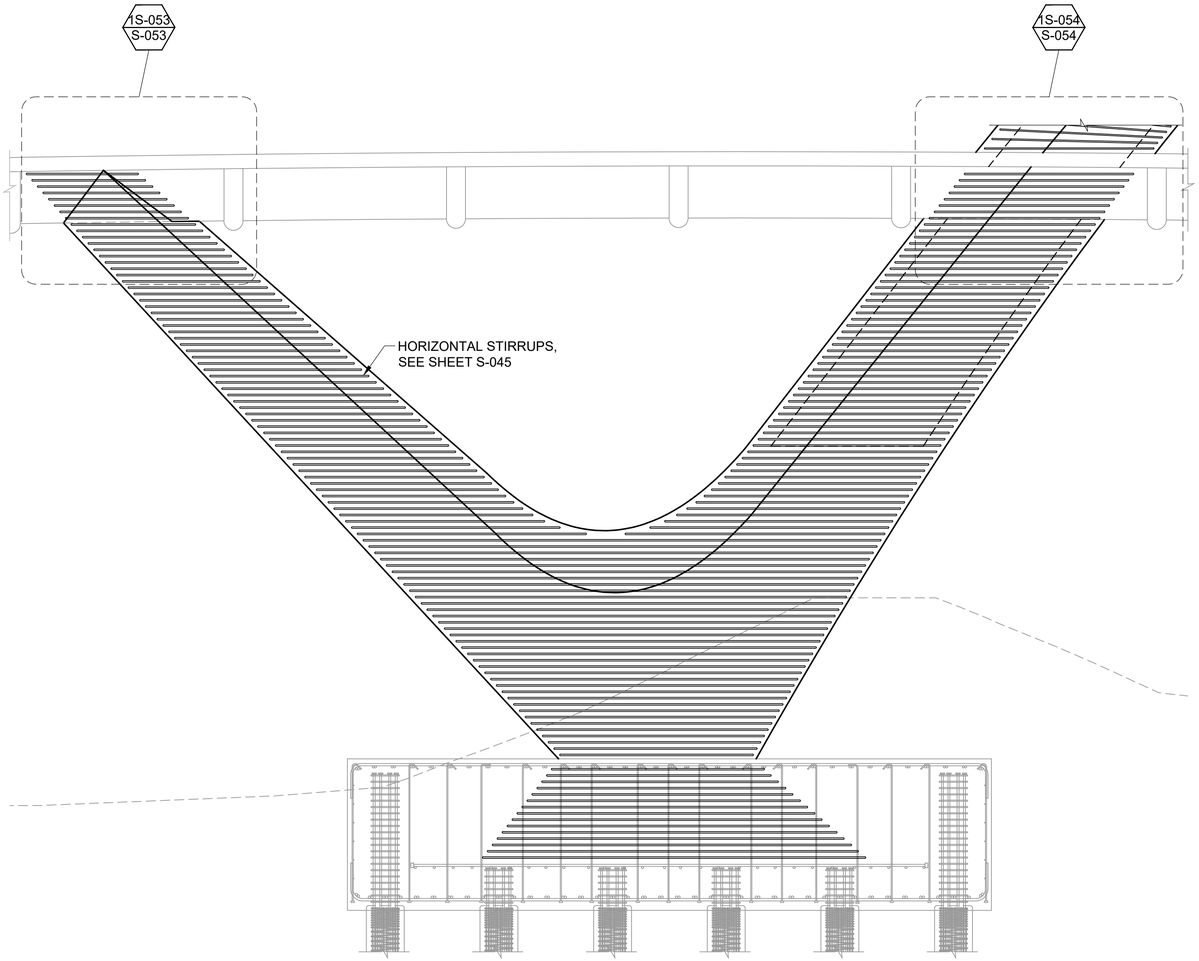
THE PORT OF LOS ANGELES
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425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3302
SHEET NUMBER: S-045

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DATE: Oct. 30, 2024 4:04 PM XREFS:XREF_PoLA_Border IMAGES:
POLAPRO1_102012_R.B.



1S-050 / S-050 PIER 2 - ELEVATION
SCALE: 1/4" = 1'-0"
(LONGITUDINAL BARS)



2S-050 / S-050 PIER 2 - ELEVATION
SCALE: 1/4" = 1'-0"
(STIRRUPS)

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SCALE: AS NOTED
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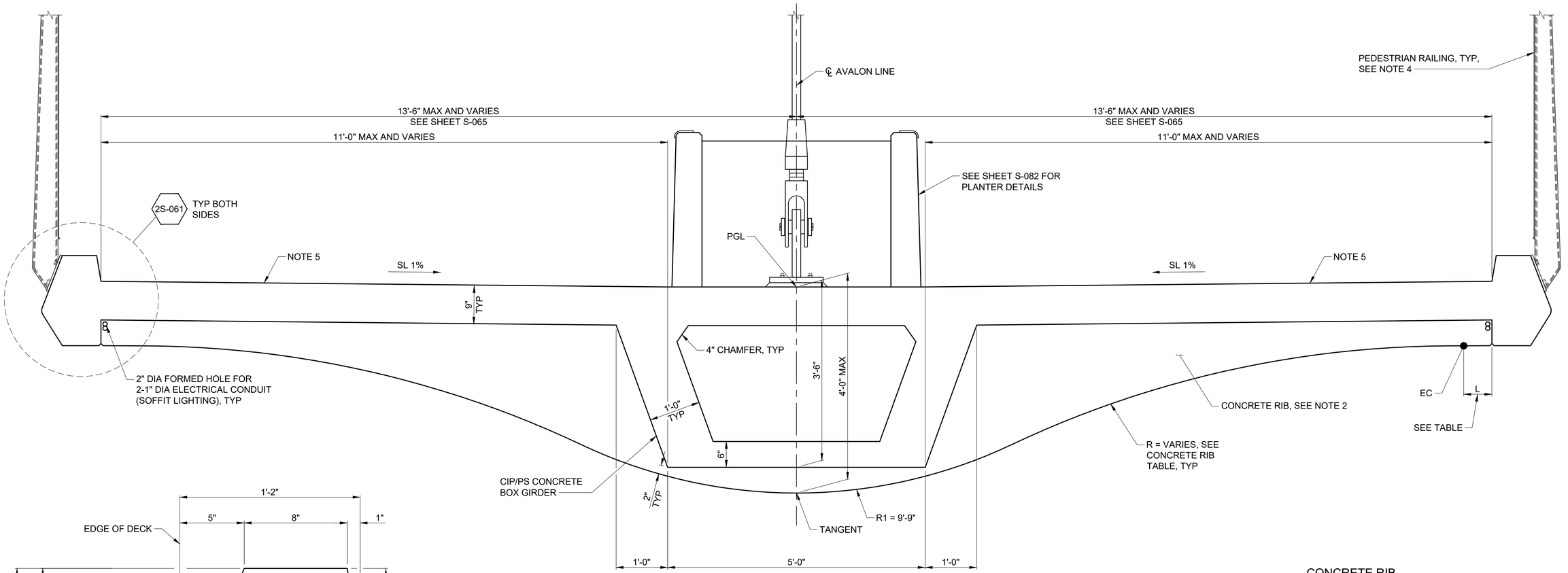
AVALON PEDESTRIAN BRIDGE

ARCH RETURN DETAILS 1

THE PORT OF LOS ANGELES
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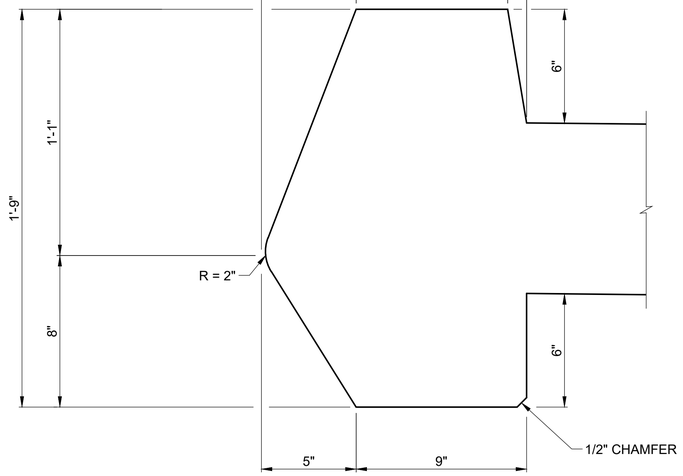
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POLAPRO1_102012_R.B



1S-061 / S-061 TYPICAL DECK SECTION BETWEEN CONCRETE RIB LOCATIONS

SCALE: 1" = 1'-0"



2S-061 / S-061 DECK EDGE DETAIL

SCALE: 3" = 1'-0"

CONCRETE RIB

STATION	RADIUS (R)	TANGENT LENGTH (L) (FT)
20+66.50	1'-6"	0.12
20+78.25	2'-6"	0.11
20+90.00	4'-6"	0.13
21+01.75	7'-0"	0.37
21+13.50	11'-0"	0.49
21+25.25	15'-0"	0.69
21+37.00	17'-0"	1.03
21+48.75	19'-0"	1.17
TYPICAL	20'-0"	0.77

NOTES:

1. CONCRETE RIB DIMENSIONS ARE TAKEN AT ℄ RIB.
2. SEE SHEETS S-065 AND S-066 FOR ALL CONCRETE RIB LOCATIONS, AND SHEET S-063 FOR ADDITIONAL DETAILS.
3. FOR GIRDER STIRRUPS SPACING, SEE "LONGITUDINAL SECTION" ON SHEETS S-065 AND S-066.
4. FOR PEDESTRIAN RAIL DETAILS, SEE SHEETS S-091 THROUGH S-093.
5. FOR SURFACE TREATMENT DETAILS, SEE SHEET S-095.

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SCALE: AS NOTED
DRAWN: R. ELWOOD
CHECKED: R. KELLY
DESIGNED: K. GHOSH
ENGINEER / ARCHITECT

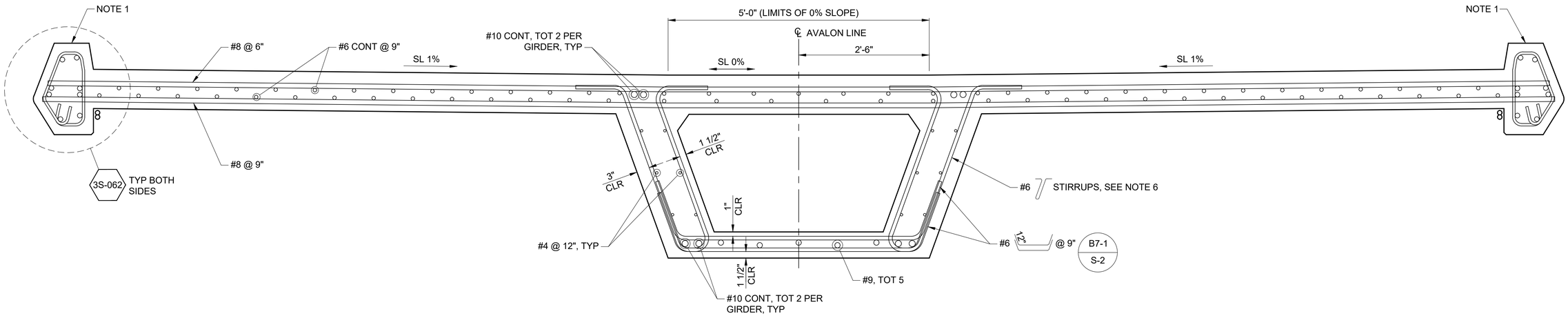
AVALON PEDESTRIAN BRIDGE

TYPICAL SECTION 1

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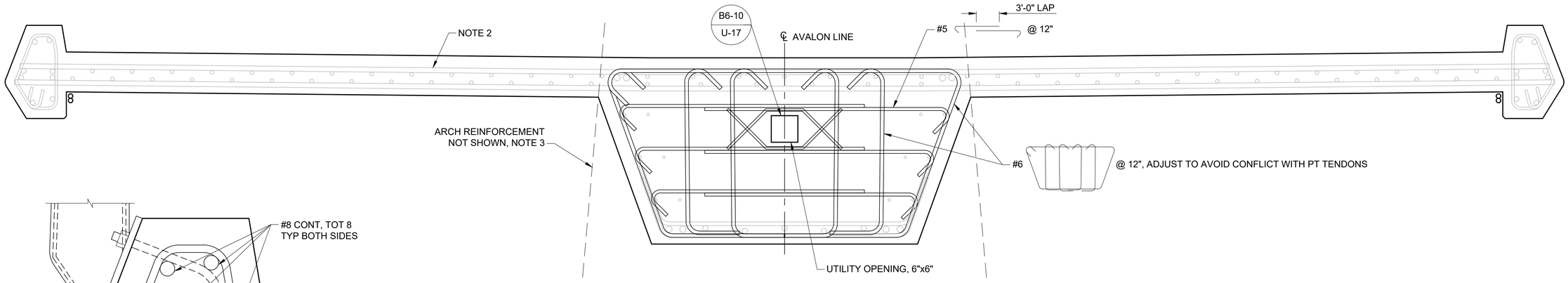
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SHEET NUMBER S-061

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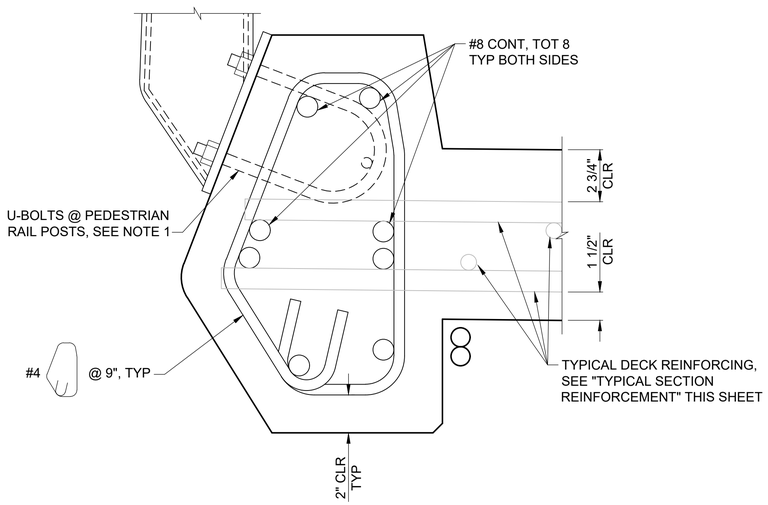
1S-062 / S-062 TYPICAL SECTION REINFORCEMENT BETWEEN CONCRETE RIB LOCATIONS

SCALE: 1" = 1'-0"



2S-062 / S-065 PIER DIAPHRAGM REINFORCEMENT SECTION

SCALE: 1" = 1'-0"



3S-062 / S-062 DECK EDGE REINFORCEMENT DETAIL

SCALE: 3" = 1'-0"

NOTES:

1. RAILING OMITTED FOR CLARITY, SEE SHEETS S-091 THROUGH S-093 FOR RAIL DETAILS.
2. FOR REINFORCEMENT DETAILS NOT SHOWN, SEE TYPICAL SECTION REINFORCEMENT, THIS SHEET.
3. FOR REINFORCEMENT AT ARCH LEG, SEE SHEETS S-045 AND S-052.
4. FOR LOCATION OF PIER DIAPHRAGMS, SEE SHEETS S-065 AND S-066.
5. FOR TYPICAL SECTION CONCRETE GEOMETRY, SEE SHEET S-061.
6. FOR GIRDER STIRRUPS SPACING, SEE LONGITUDINAL SECTION ON SHEETS S-065 AND S-066.

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SCALE:	AS NOTED
DRAWN:	R. ELWOOD
CHECKED:	R. KELLY
DESIGNED:	K. GHOSH
	ENGINEER / ARCHITECT

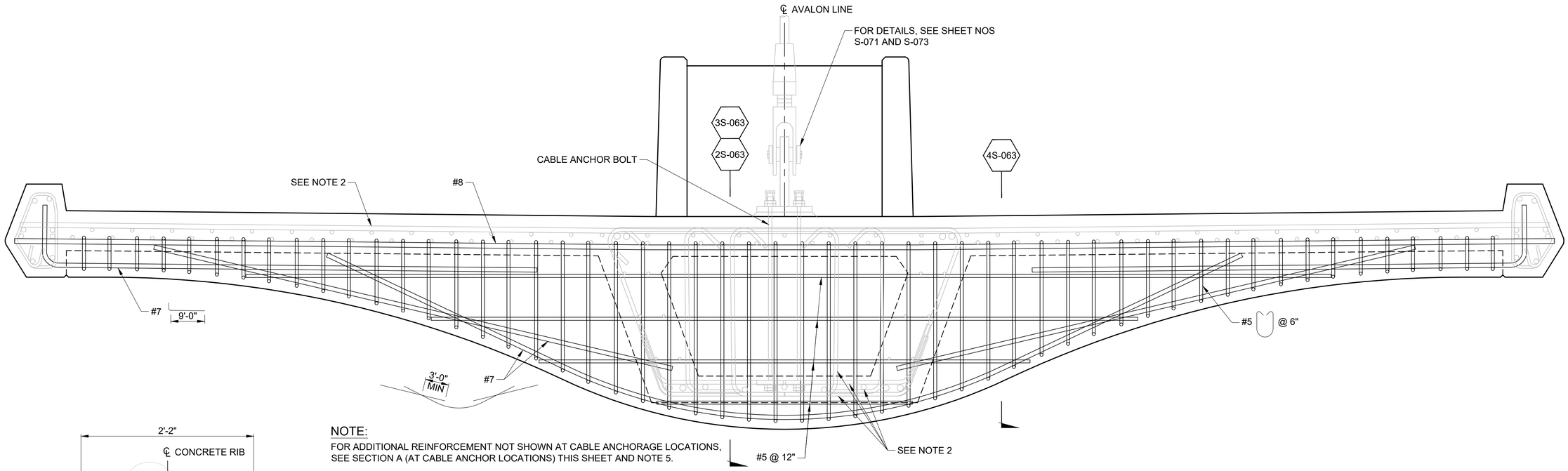
AVALON PEDESTRIAN BRIDGE

TYPICAL SECTION 2

THE PORT OF LOS ANGELES
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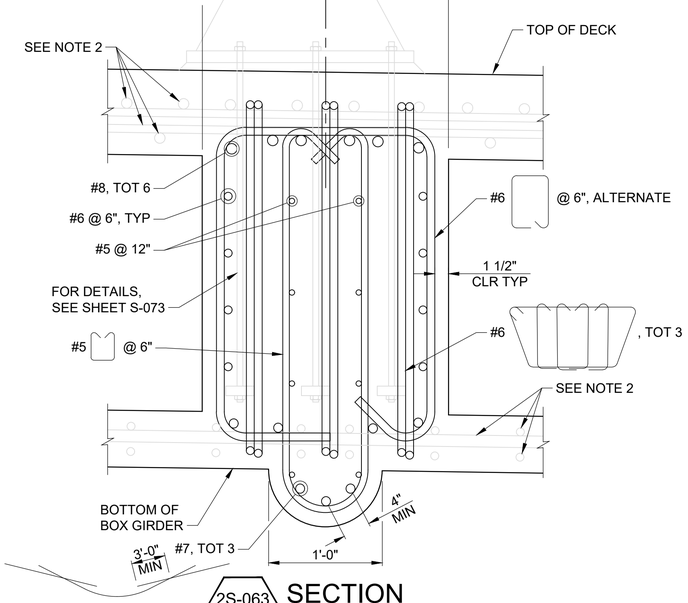
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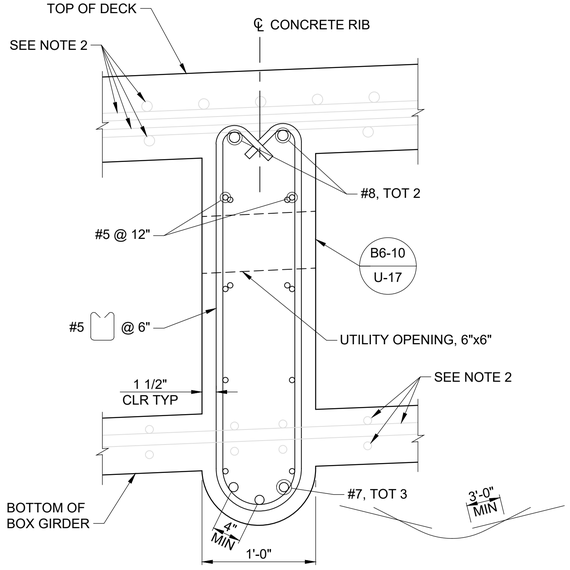


NOTE:
FOR ADDITIONAL REINFORCEMENT NOT SHOWN AT CABLE ANCHORAGE LOCATIONS, SEE SECTION A (AT CABLE ANCHOR LOCATIONS) THIS SHEET AND NOTE 5.

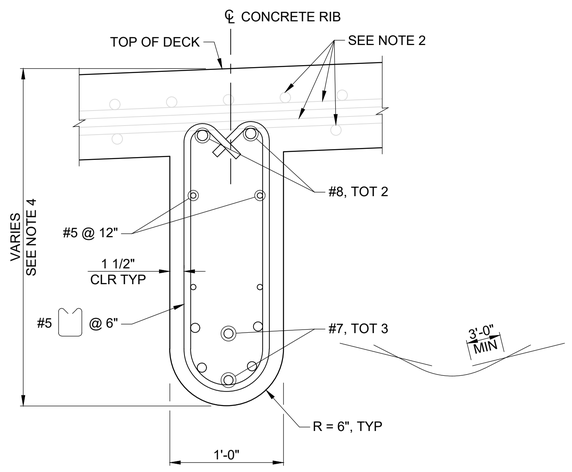
1S-063 / S-063 TYPICAL CONCRETE RIB REINFORCEMENT
SCALE: 1" = 1'-0"



2S-063 / S-063 SECTION
SCALE: 1 1/2" = 1'-0"
(AT CABLE ANCHOR LOCATIONS)



3S-063 / S-063 SECTION
SCALE: 1 1/2" = 1'-0"
(TYPICAL RIB SECTION)



4S-063 / S-063 SECTION
SCALE: 1 1/2" = 1'-0"
(AT ALL RIB LOCATIONS)

NOTES:
1. FOR PEDESTRIAN RAIL DETAILS, SEE SHEETS S-091 THROUGH S-093.
2. SEE TYPICAL SECTION REINFORCEMENT AND PIER DIAPHRAGM REINFORCEMENT ON SHEET S-062 FOR DETAILS NOT SHOWN.
3. FOR LOCATION OF CONCRETE RIBS, SEE DECK PLAN ON SHEETS S-065 AND S-066.
4. SEE TYPICAL DECK SECTION AND TABLE ON SHEET S-061 FOR ADDITIONAL CONCRETE RIB GEOMETRY.
5. FOR CABLE ANCHOR DETAILS, SEE SHEET S-071.
6. ADJUST REINFORCEMENT TO AVOID CONFLICT WITH PT TENDONS.

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SCALE: AS NOTED
DRAWN: R. ELWOOD
CHECKED: R. KELLY
DESIGNED: K. GHOSH
ENGINEER / ARCHITECT

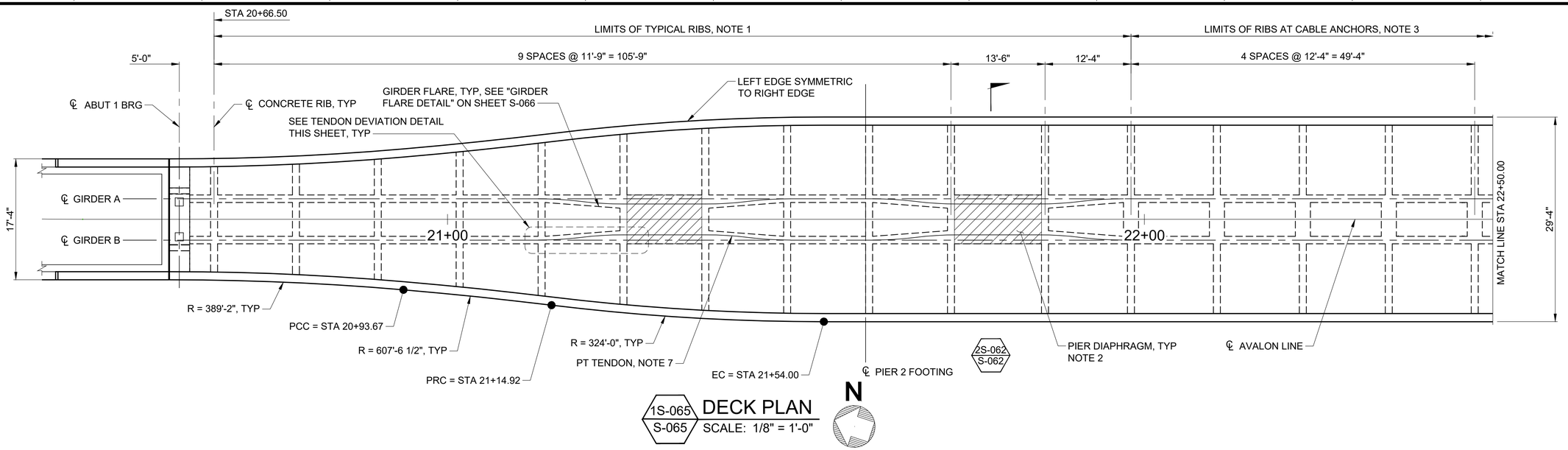
AVALON PEDESTRIAN BRIDGE

TYPICAL SECTION 3

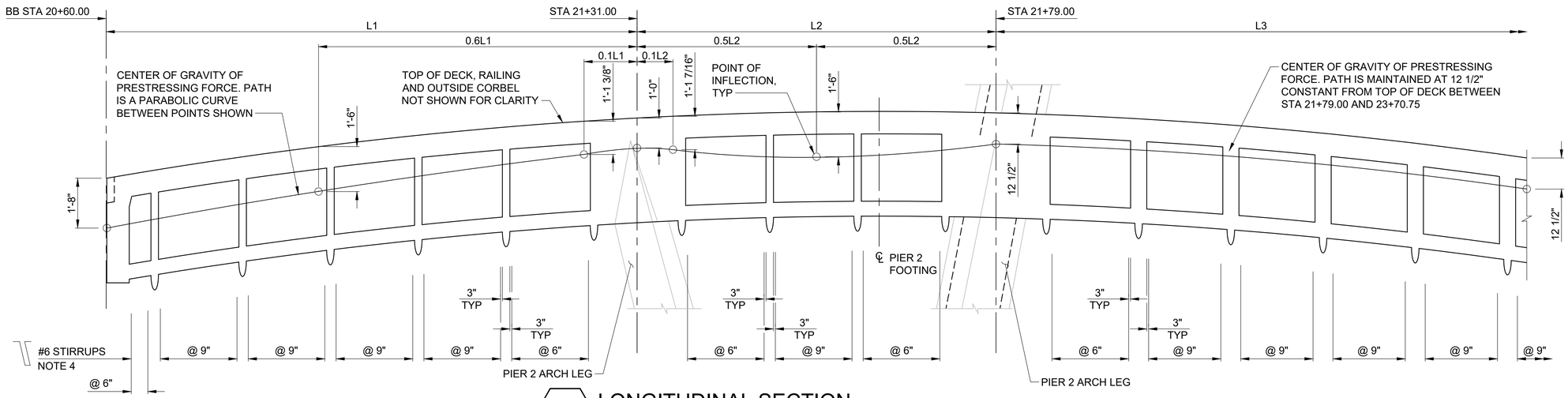
THE PORT OF LOS ANGELES
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425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3302
SHEET NUMBER S-063

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1S-065 / S-065 **DECK PLAN**
SCALE: 1/8" = 1'-0"



2S-065 / S-065 **LONGITUDINAL SECTION**
HORIZONTAL SCALE: 1/8" = 1'-0"
VERTICAL SCALE: 4:1

NOTES:

1. FOR REINFORCEMENT DETAILS IN THE TYPICAL RIBS, SEE SHEET S-063.
2. FOR REINFORCEMENT DETAILS IN THE PIER DIAPHRAGM, SEE SHEET S-062.
3. FOR REINFORCEMENT DETAILS IN THE RIBS AT CABLE ANCHORS, SEE SHEET S-063.
4. FOR GIRDER REINFORCEMENT, SEE SHEET S-062.
5. FOR CAMBER DIAGRAM, SEE SHEET S-004.
6. PLAN GEOMETRY OF DECK IS SYMMETRIC ABOUT CENTERLINE AVALON LINE.
7. PT DUCT COINCIDENT WITH THE CENTERLINE OF GIRDER NOT SHOWN FOR CLARITY.

PRESTRESSING NOTES:

270 KSI LOW RELAXATION STRAND:

P_{JACK}	= 3872 kips
ANCHOR SET	= 3/8"
FRICTION CURVATURE COEFFICIENT, μ	= 0.15 (1/rad)
FRICTION WOBBLE COEFFICIENT, K	= 0.0002 (1/FT)
ASSUMED LONG TERM LOSSES	= 20 ksi
TOTAL NUMBER OF GIRDERS	= 2

THE FINAL FORCE RATIO (LARGER DIVIDED BY SMALLER) BETWEEN ANY TWO GIRDERS SHALL NOT EXCEED THE RATIO OF 10 TO 9

CONCRETE:

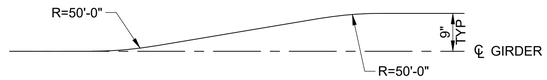
F'_C = 6000 psi @ 28 DAYS
F'_{CI} = 4000 psi @ TIME OF STRESSING

PRESTRESSING NOTES (CONTINUED):

CONTRACTOR SHALL SUBMIT ELONGATION CALCULATIONS BASED ON INITIAL STRESS AT:

☒ = 0.868 TIMES JACKING STRESS.

TWO END STRESSING SHALL BE PERFORMED.



3S-065 / S-065 **TENDON DEVIATION DETAIL**
SCALE: NTS

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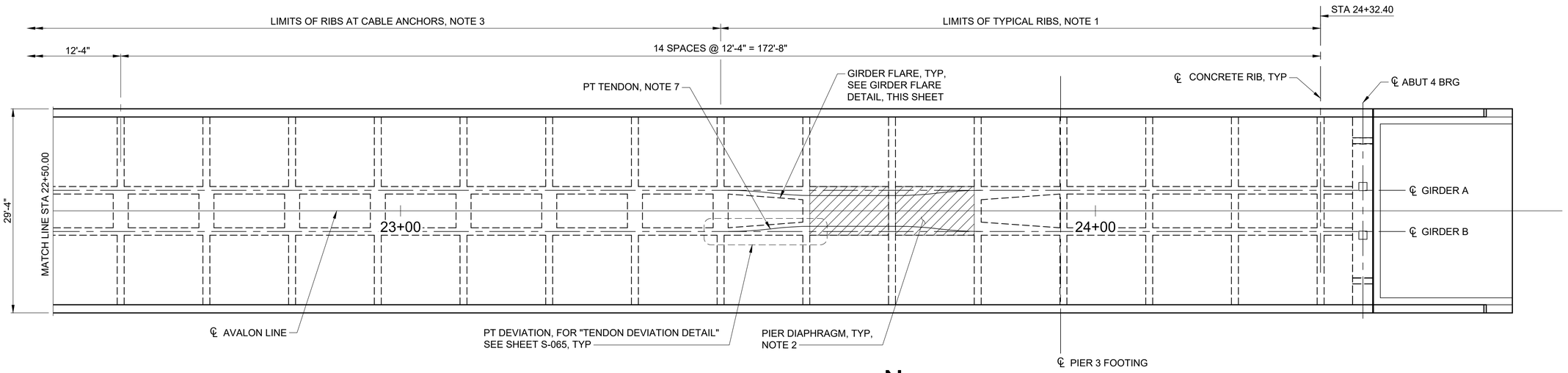
AVALON PEDESTRIAN BRIDGE

GIRDER LAYOUT 1

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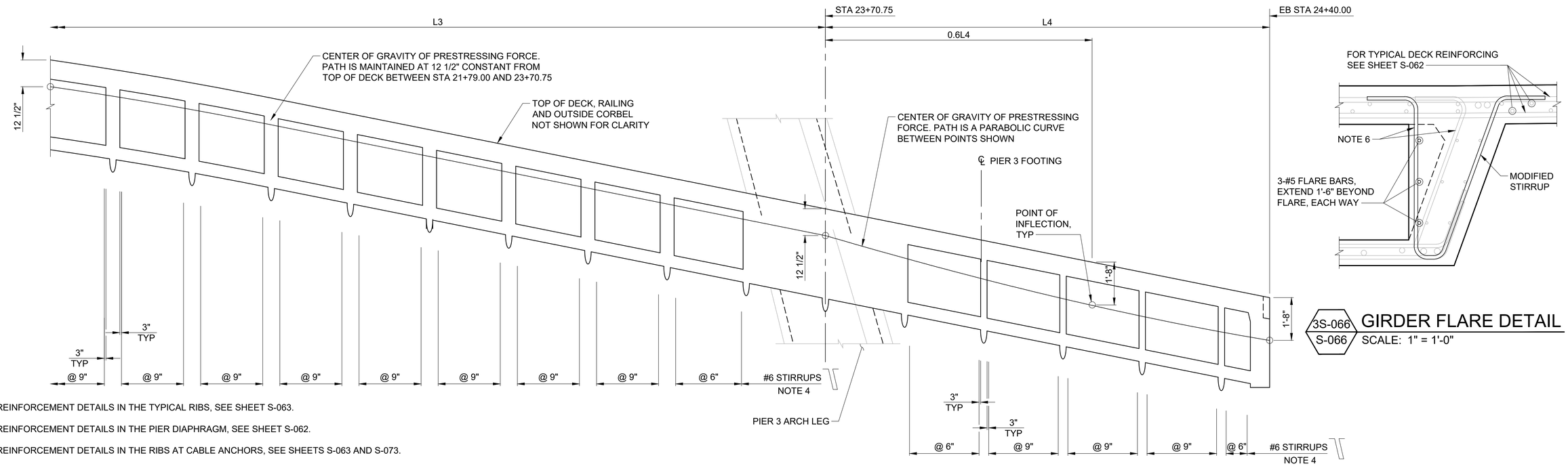
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SHEET NUMBER: S-065

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1S-066 / S-066 **DECK PLAN** SCALE: 1/8" = 1'-0"

N



3S-066 / S-066 **GIRDER FLARE DETAIL** SCALE: 1" = 1'-0"

NOTES:

1. FOR REINFORCEMENT DETAILS IN THE TYPICAL RIBS, SEE SHEET S-063.
2. FOR REINFORCEMENT DETAILS IN THE PIER DIAPHRAGM, SEE SHEET S-062.
3. FOR REINFORCEMENT DETAILS IN THE RIBS AT CABLE ANCHORS, SEE SHEETS S-063 AND S-073.
4. FOR GIRDER REINFORCEMENT, SEE SHEET S-062.
5. FOR CAMBER DIAGRAM, SEE SHEET S-004.
6. STIRRUPS IN THE GIRDER FLARE REGIONS SHALL BE SHAPED SO THAT THEY MAINTAIN THEIR COVER TO THE INSIDE AND OUTSIDE CONCRETE.
7. PT DUCT COINCIDENT WITH THE CENTERLINE OF GIRDER NOT SHOWN FOR CLARITY.

2S-066 / S-066 **LONGITUDINAL SECTION**
HORIZONTAL SCALE: 1/8" = 1'-0"
VERTICAL SCALE: 4:1

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SCALE: AS NOTED
DRAWN: R. ELWOOD
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DESIGNED: K. GHOSH
ENGINEER / ARCHITECT

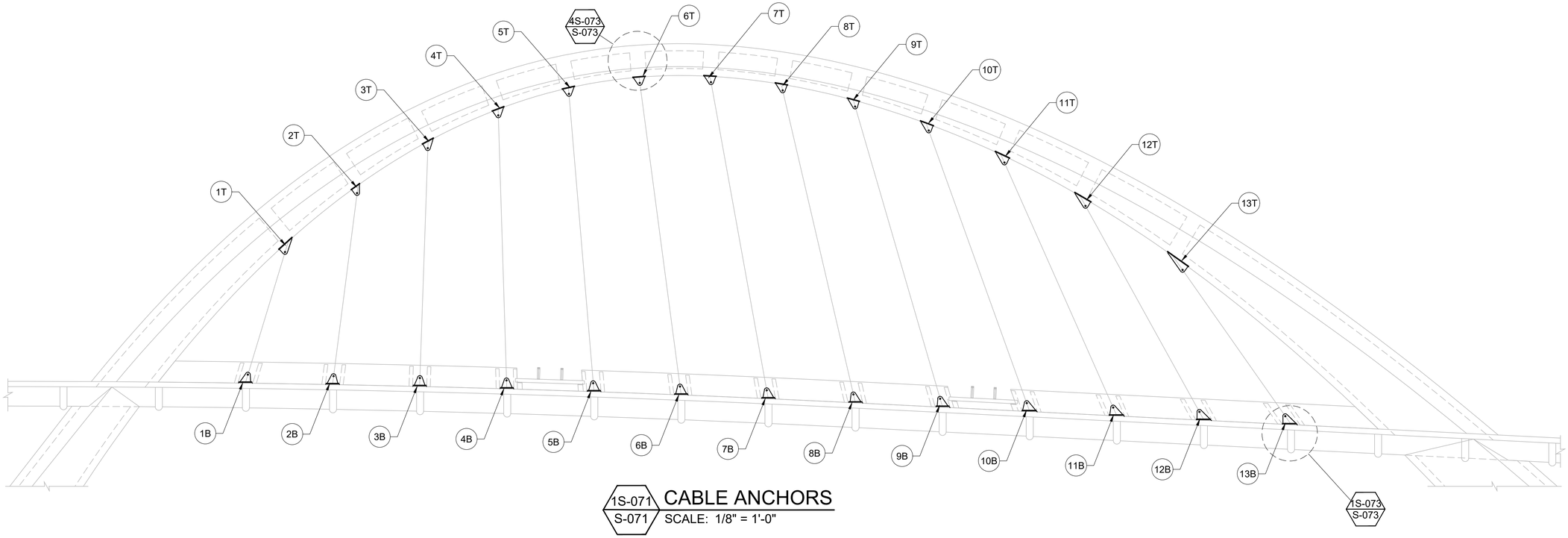
AVALON PEDESTRIAN BRIDGE

GIRDER LAYOUT 2

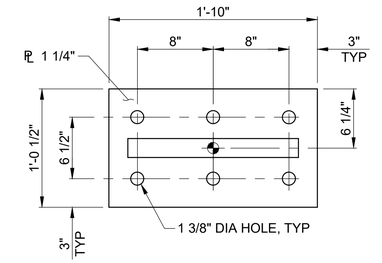
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ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

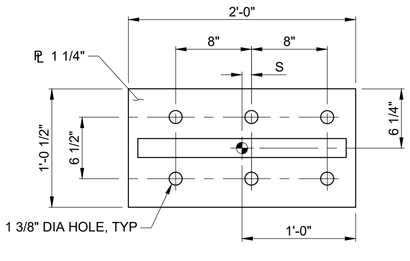
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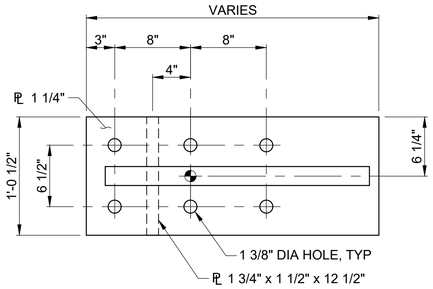
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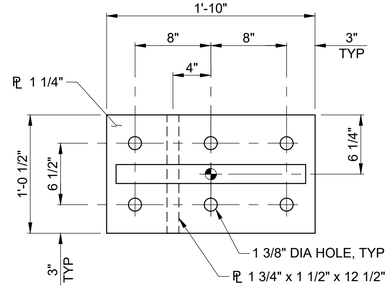


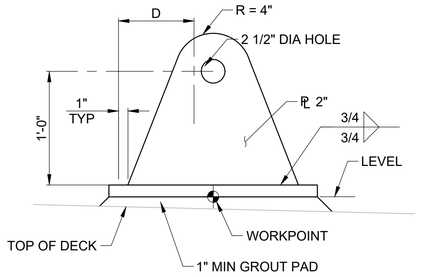
1S-071 / S-071 **CABLE ANCHORS**
SCALE: 1/8" = 1'-0"



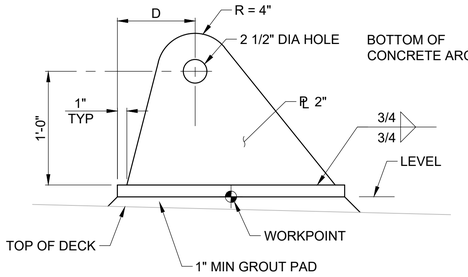




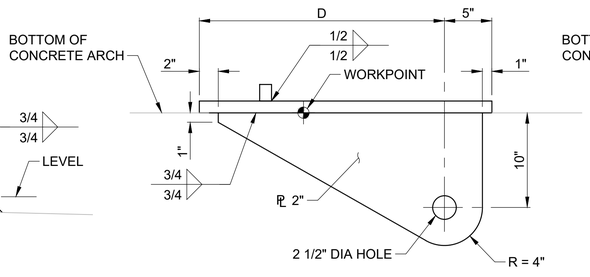




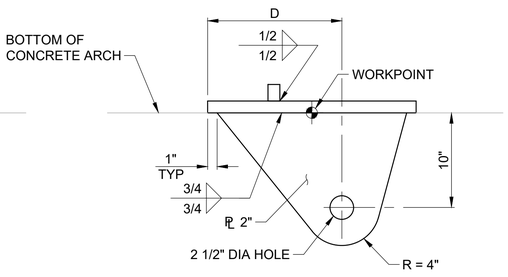
2S-071 / S-071 **ANCHOR - TYPE A**
SCALE: 1 1/2" = 1'-0"



3S-071 / S-071 **ANCHOR - TYPE B**
SCALE: 1 1/2" = 1'-0"



4S-071 / S-071 **ANCHOR - TYPE C**
SCALE: 1 1/2" = 1'-0"



5S-071 / S-071 **ANCHOR - TYPE D**
SCALE: 1 1/2" = 1'-0"

ANCHOR NO	WORKPOINT STATION	ANCHOR TYPE	ANCHOR OFFSET, D (FT)	HOLE OFFSET, S (IN)
1B	21+97.99	A	1.27	-
2B	22+10.33	A	1.07	-
3B	22+22.67	A	0.96	-
4B	22+35.02	A	0.88	-
5B	22+47.36	A	0.82	-
6B	22+59.70	A	0.76	-
7B	22+72.04	A	0.70	-
8B	22+84.39	A	0.64	-
9B	22+96.73	A	0.57	-
10B	23+08.99	B	0.66	1"
11B	23+21.33	B	0.56	1"
12B	23+33.68	B	0.43	1"
13B	23+45.68	B	0.42	3"
1T	22+04.08	C	2.29	-
2T	22+13.96	C	1.70	-
3T	22+23.86	D	1.40	-
4T	22+33.79	D	1.20	-
5T	22+43.75	D	1.03	-
6T	22+53.74	D	0.87	-
7T	22+63.79	D	0.72	-
8T	22+73.89	D	0.57	-
9T	22+84.08	C	1.42	-
10T	22+94.40	C	1.62	-
11T	23+04.98	C	1.88	-
12T	23+16.19	C	2.31	-
13T	23+29.29	C	3.26	-

100% CONSTRUCTION DOCUMENT

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REGISTERED PROFESSIONAL ENGINEER
DANIEL J FITZWILLIAM
No. 58937
Exp. 6/30/2025
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PHONE(213) 946-7960

SCALE: AS NOTED
DRAWN: R. ELWOOD
CHECKED: R. KELLY
DESIGNED: J.LAHAYE
ENGINEER / ARCHITECT

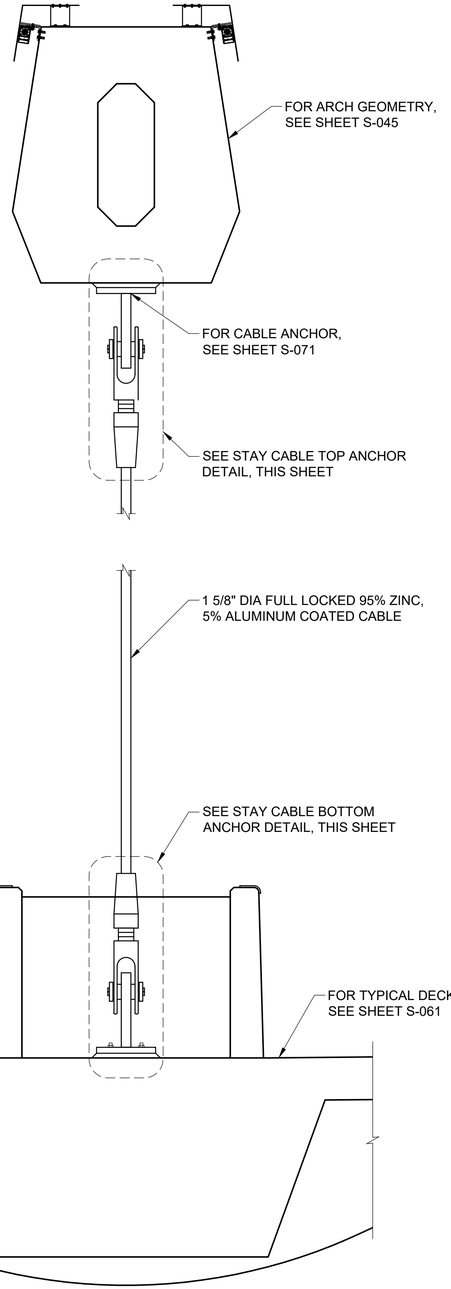
AVALON PEDESTRIAN BRIDGE

CABLE ANCHOR DETAILS 1

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

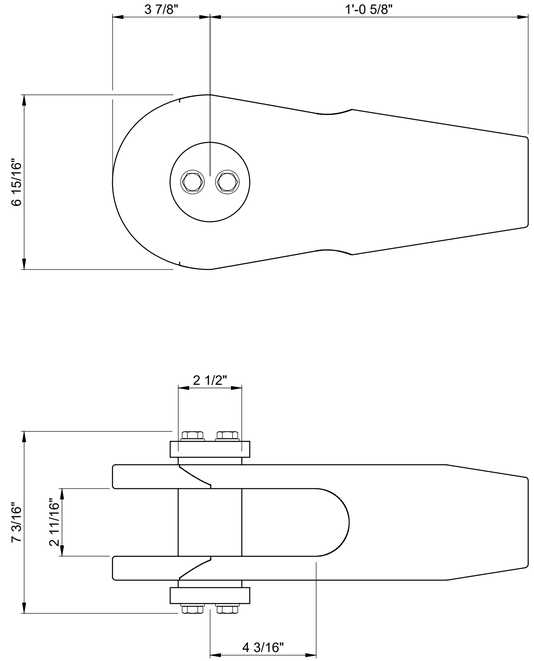
DRAWING NUMBER 1-3302
SHEET NUMBER S-071

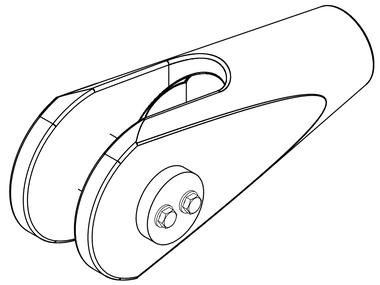
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DATE: Oct. 30, 2024 4:04 PM XREFS:XREF_PoLA_Border IMAGES:
POLAPRO1_102012_R.8



1S-072 / S-072 STAY CABLE ATTACHMENT DETAIL

SCALE: NTS





NOTE:

DIMENSIONS ARE REPRESENTATIVE OF PFEIFER TYPE 710 PV150 OR EQUIVALENT FATIGUE ADJUSTABLE OPEN SPELTER SOCKET.

MODIFICATIONS TO ANCHOR PLATES REQUIRED TO ACCOMMODATE OTHER DIMENSIONS ARE THE RESPONSIBILITY OF CONTRACTOR AND REQUIRE APPROVAL BY ENGINEER.

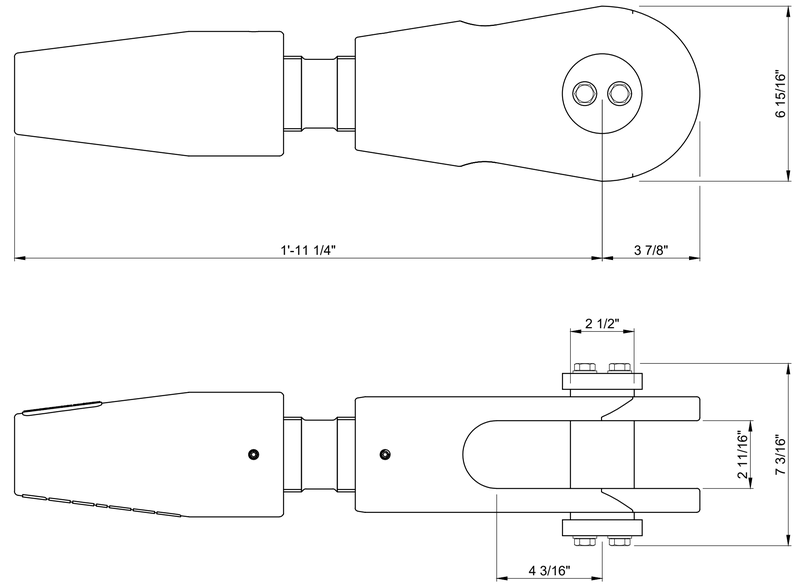
2S-072 / S-072 STAY CABLE TOP ANCHOR

SCALE: NTS

NOTE:

DIMENSIONS ARE REPRESENTATIVE OF PFEIFER TYPE 700 PV150 OR EQUIVALENT FATIGUE RESISTANT OPEN SPELTER SOCKET.

MODIFICATIONS TO ANCHOR PLATES REQUIRED TO ACCOMMODATE OTHER DIMENSIONS ARE THE RESPONSIBILITY OF CONTRACTOR AND REQUIRE APPROVAL BY ENGINEER.



3S-072 / S-072 HANGER CABLE BOTTOM ANCHOR

SCALE: NTS

100% CONSTRUCTION DOCUMENT

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REGISTERED PROFESSIONAL ENGINEER — DANIEL J FITZWILLIAM — No. 58937 — Exp. 6/30/2025 — CIVIL — STATE OF CALIFORNIA

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DRAWN: R. ELWOOD
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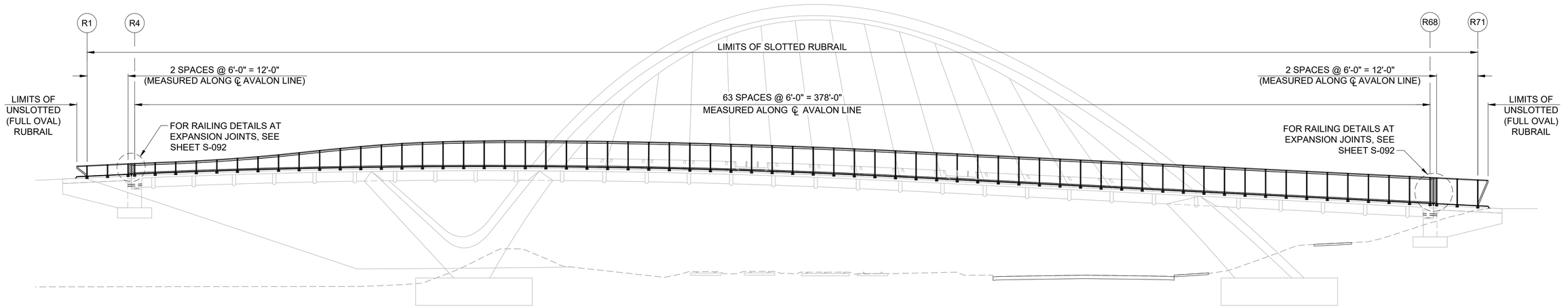
AVALON PEDESTRIAN BRIDGE

CABLE ANCHOR DETAILS 2

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3302
SHEET NUMBER: S-072

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1S-090 / S-090 **RAILING ELEVATION**
SCALE: 1" = 15'

RAIL POST TABLE

(WEST SIDE SHOWN, EAST SIDE IS SAME)

POST NO.	STATION	RAILING HEIGHT, H (FT)
R1	20+47.00	3.5
R2	20+53.00	3.5
R3	20+59.00	3.5
R4	20+61.00	3.5
R5	20+67.00	3.5
R6	20+73.00	3.5
R7	20+79.00	3.6
R8	20+85.00	3.7
R9	20+91.00	3.9
R10	20+97.00	4.2
R11	21+03.00	4.6
R12	21+09.00	5.1
R13	21+15.00	5.6
R14	21+21.00	6.1
R15	21+27.00	6.6
R16	21+33.00	7.0
R17	21+39.00	7.3
R18	21+45.00	7.5
R19	21+51.00	7.7
R20	21+57.00	7.8
R21	21+63.00	7.9
R22	21+69.00	8.0
R23	21+75.00	8.0
R24	21+81.00	8.0

POST NO.	STATION	RAILING HEIGHT, H (FT)
R25	21+87.00	8.0
R26	21+93.00	8.0
R27	21+99.00	8.0
R28	22+05.00	8.0
R29	22+11.00	8.0
R30	22+17.00	8.0
R31	22+23.00	8.0
R32	22+29.00	8.0
R33	22+35.00	8.0
R34	22+41.00	8.0
R35	22+47.00	8.0
R36	22+53.00	8.0
R37	22+59.00	8.0
R38	22+65.00	8.0
R39	22+71.00	8.0
R40	22+77.00	8.0
R41	22+83.00	8.0
R42	22+89.00	8.0
R43	22+95.00	8.0
R44	23+01.00	8.0
R45	23+07.00	8.0
R46	23+13.00	8.0
R47	23+13.00	8.0
R48	23+19.00	8.0

POST NO.	STATION	RAILING HEIGHT, H (FT)
R49	23+25.00	8.0
R50	23+31.00	8.0
R51	23+37.00	8.0
R52	23+43.00	8.0
R53	23+49.00	8.0
R54	23+55.00	8.0
R55	23+61.00	8.0
R56	23+67.00	8.0
R57	23+73.00	8.0
R58	23+79.00	8.0
R59	23+85.00	8.0
R60	23+91.00	8.0
R61	23+97.00	8.0
R62	24+03.00	8.0
R63	24+09.00	8.0
R64	24+15.00	8.0
R65	24+21.00	8.0
R66	24+27.00	8.0
R67	24+33.00	8.0
R68	24+39.00	8.0
R69	24+41.00	8.0
R70	24+47.00	8.0
R71	24+53.00	8.0

NOTES:

1. POSTS TO VERTICAL AND CABLES TO BE LOCATED SUCH THAT THEY ARE PARALLEL TO DECK SURFACE ALONG BRIDGE LENGTH BETWEEN RAIL POSTS WHEN RAILING IS OF CONSTANT HEIGHT.
2. CABLES SHALL BE INSTALLED TO TENSION SPECIFIED BY MANUFACTURER TO AVOID VISUALLY DISCERNABLE CABLE SAG UNDER A TEMPERATURE DIFFERENCE OF 35 DEGREES FROM INSTALLATION TEMPERATURE.
3. CABLES SHALL BE INSTALLED PER MANUFACTURE RECOMMENDATIONS. THE OUT OF BALANCE INSTALLATION FORCE SHALL BE NO GREATER THAN 0.2 KIP ON CABLE TERMINATION POSTS.
4. SHOP DRAWINGS OF RAILING SHALL BE SUBMITTED FOR APPROVAL SHOWING COMPLETE DIMENSIONS AND DETAILS OF FABRICATION AND ERECTION DIAGRAM. MATERIAL SPECIFICATIONS SHALL BE PROVIDED IN THE SHOP DRAWING FOR ALL COMPONENTS.
5. HANDRAIL IS CHORDED BETWEEN ANCHOR POSTS. SPLICE OF HANDRAIL OCCURS AT EACH POST LOCATION.
6. STRESSING OF CABLES AT ADJUSTABLE SCREW-ON CROSS CLAMPS AT THE RAILING POSTS SHALL SATISFY MANUFACTURER RECOMMENDATIONS.

100% CONSTRUCTION DOCUMENT

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Exp. 6/30/2025
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PHONE(213) 946-7960

SCALE: AS NOTED
DRAWN: R. ELWOOD
CHECKED: R. KELLY
DESIGNED: K. GHOSH
ENGINEER / ARCHITECT

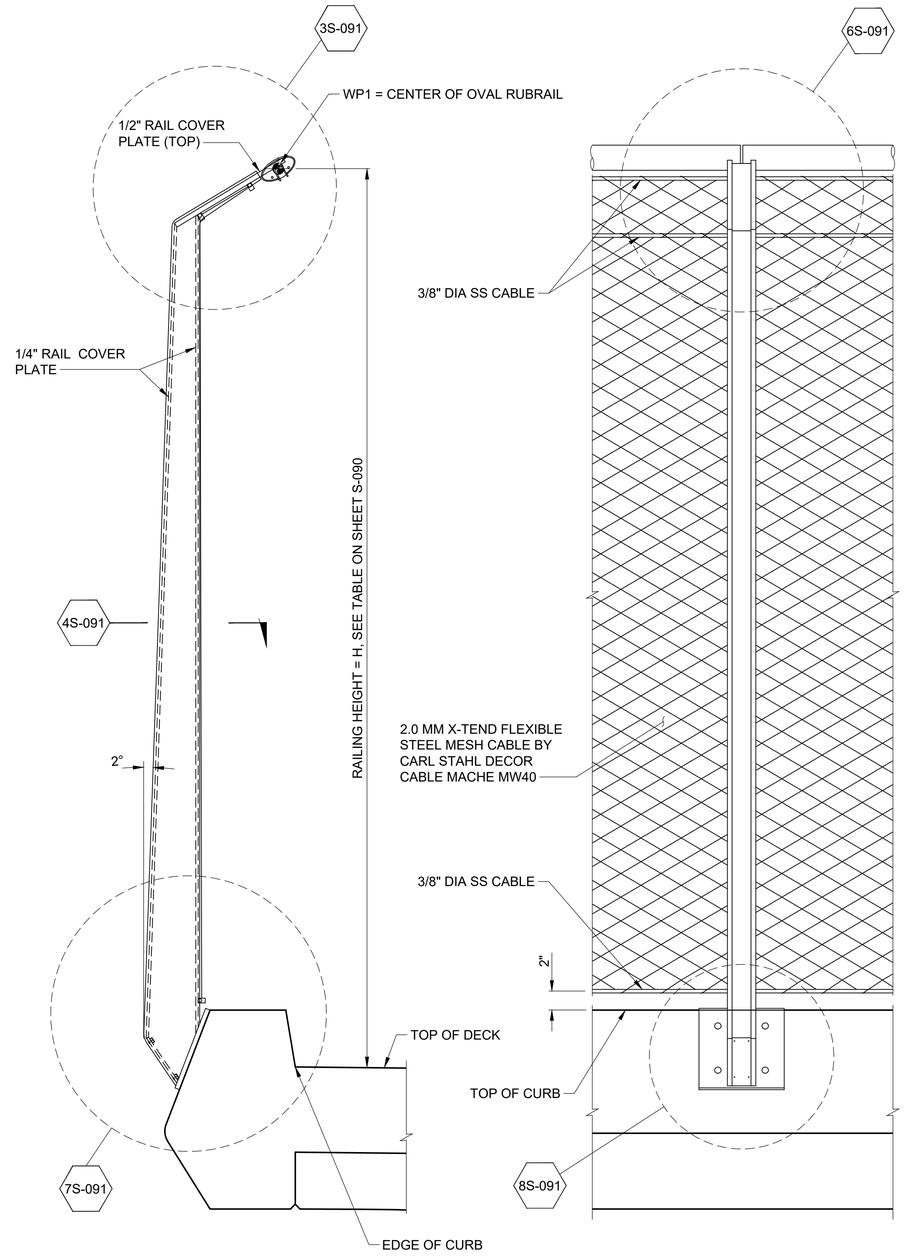
AVALON PEDESTRIAN BRIDGE

RAILING DETAILS 1

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3302
SHEET NUMBER: S-090

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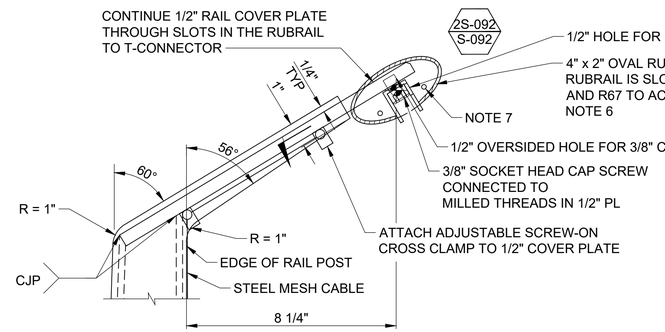


1S-091 / S-091 TYPICAL RAILING SECTION

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

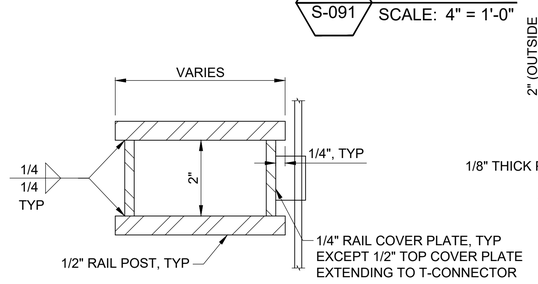
2S-091 / S-091 RAILING ELEVATION

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



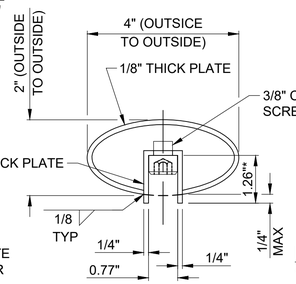
3S-091 / S-091 DETAIL

SCALE: 4" = 1'-0"



4S-091 / S-091 SECTION

SCALE: 6" = 1'-0"

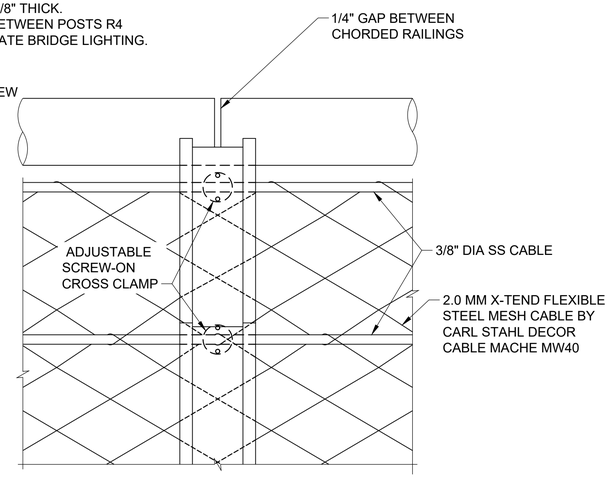


5S-091 / S-091 RUBRAIL DETAIL

SCALE: 6" = 1'-0"

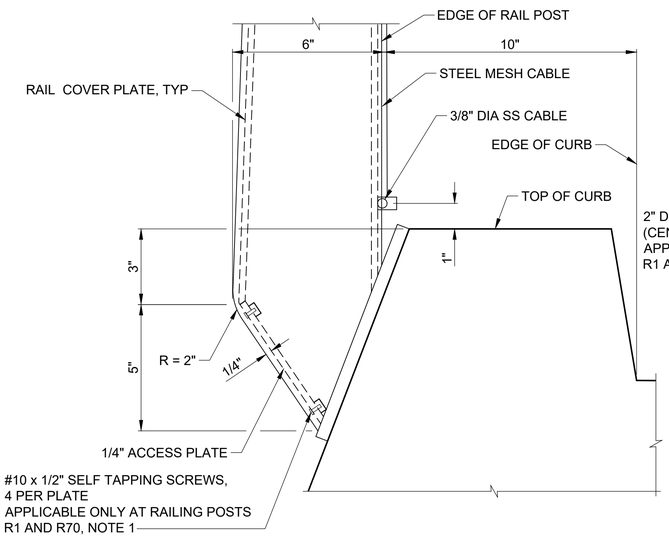
NOTE:

* CONTRACTOR TO COORDINATE CHANNEL DIMENSIONS WITH LIGHT MANUFACTURER.



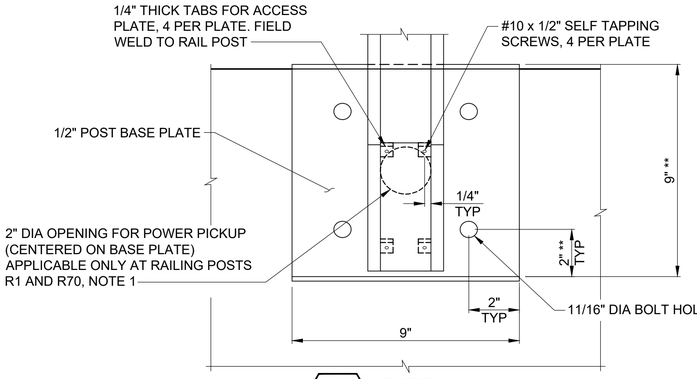
6S-091 / S-091 DETAIL

SCALE: 4" = 1'-0"



7S-091 / S-091 DETAIL

SCALE: 4" = 1'-0"



8S-091 / S-091 DETAIL

SCALE: 4" = 1'-0"

NOTE:

** MEASURED NORMAL TO BASE PLATE.

NOTE:

1. FOR LOCATIONS OF RAILING POSTS, SEE SHEET S-090.
2. NUMBER AND CABLE STRESSING REQUIREMENTS AT ADJUSTABLE SCREW-ON CROSS CLAMPS AT THE RAILING POSTS SHALL SATISFY MANUFACTURER RECOMMENDATIONS. CONNECTION OF CLAMP TO POST TO BE SUBMITTED FOR APPROVAL BY THE ENGINEER.
3. RAILING PLATES AND ATTACHMENTS SHOWN SHALL BE STAINLESS STEEL. SEE SHEET S-003 FOR MATERIAL SPECIFICATIONS.
4. FOR SECTION C-C, SEE SHEET S-092.
5. FOR HANDRAIL EXPANSION JOINT DETAILS AT BB AND EB, SEE SHEET S-092.
6. FOR BRIDGE LIGHTING DETAILS, SEE SHEET S-099.
7. SEE ELECTRICAL SHEETS FOR DETAILS.

100% CONSTRUCTION DOCUMENT

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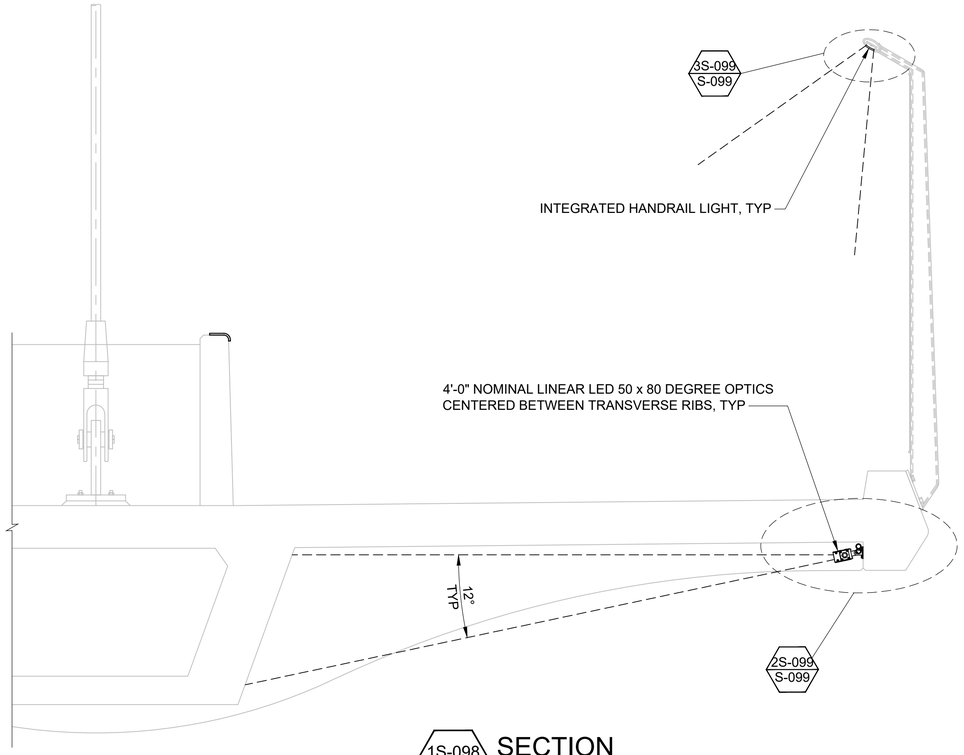
AVALON PEDESTRIAN BRIDGE

RAILING DETAILS 2

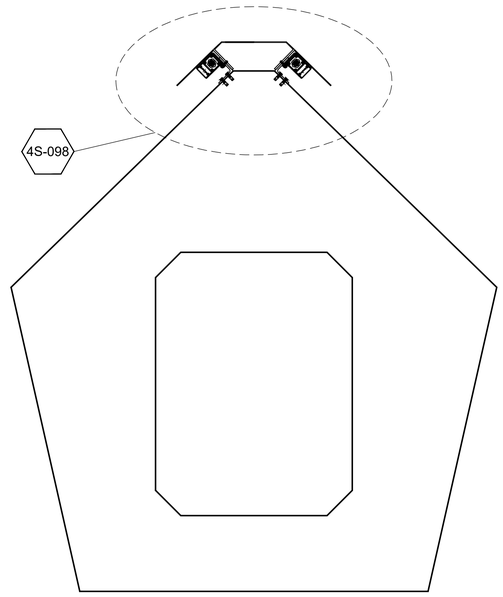
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3302
SHEET NUMBER S-091

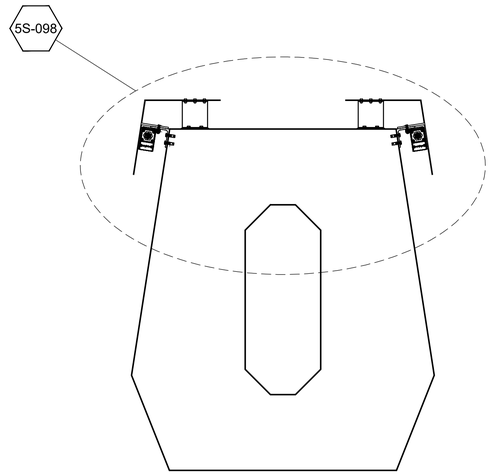
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DATE: Oct. 30, 2024 4:04 PM XREFS:XREF_PolA_Border IMAGES:
POLAPRD1_1920X12_R.B



1S-098 / S-097 **SECTION**
SCALE: 3/4" = 1'-0"

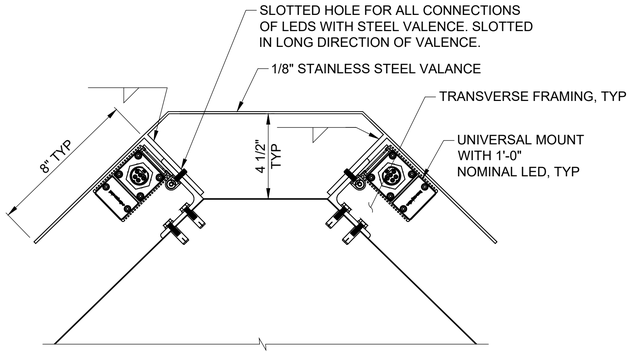


2S-098 / S-097 **SECTION WHERE TOP SURFACE < 1'-0"**
SCALE: 1" = 1'-0"

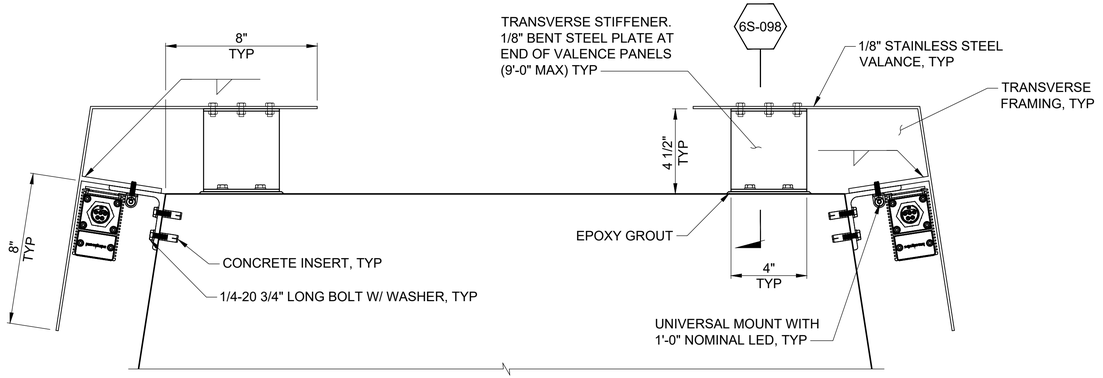


3S-098 / S-097 **SECTION WHERE TOP SURFACE ≥1'-0"**
SCALE: 1" = 1'-0"

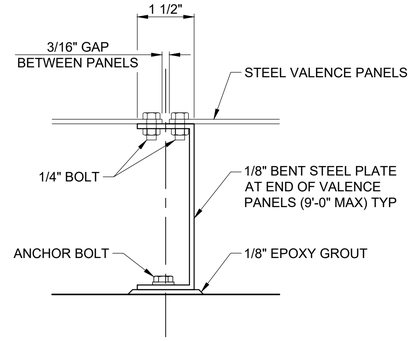
NOTE:
SEE SHEET S-097 FOR LIMITS OF
ARCH LIGHTING AND VALANCE.



4S-098 / S-098 **ARCH LIGHT DETAIL**
SCALE: 3" = 1'-0"



5S-098 / S-098 **ARCH LIGHT DETAIL**
SCALE: 3" = 1'-0"



6S-098 / S-098 **SECTION**
SCALE: 6" = 1'-0"

100% CONSTRUCTION DOCUMENT

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

REGISTERED PROFESSIONAL ENGINEER
DANIEL J FITZWILLIAM
No. 58937
Exp. 6/30/2025
CIVIL
STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

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707 WILSHIRE BOULEVARD, SUITE 4900
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SCALE: AS NOTED
DRAWN: R. ELWOOD
CHECKED: R. KELLY
DESIGNED: H. RUTHRAUFF
ENGINEER / ARCHITECT

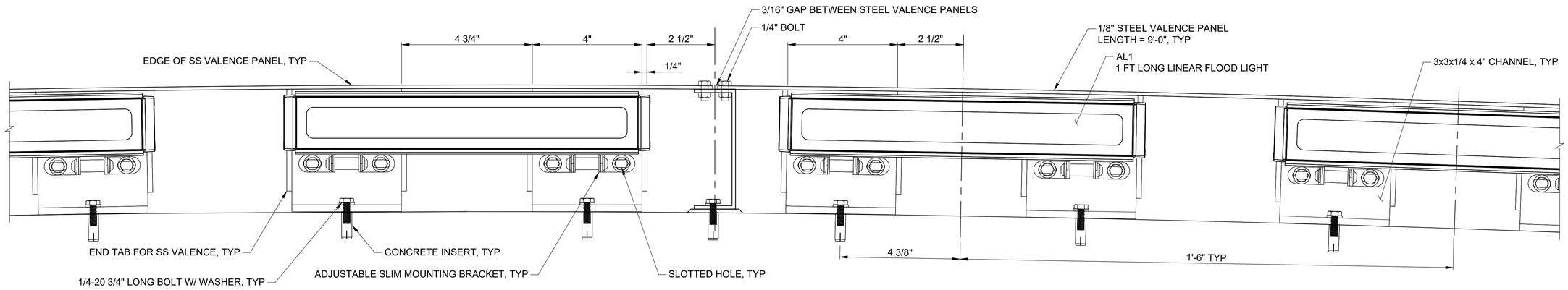
AVALON PEDESTRIAN BRIDGE

LIGHTING DETAILS 2

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3302
SHEET NUMBER S-098

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DATE: Oct. 30, 2024 4:04 PM XREFS:XREF_PolA_Border IMAGES:
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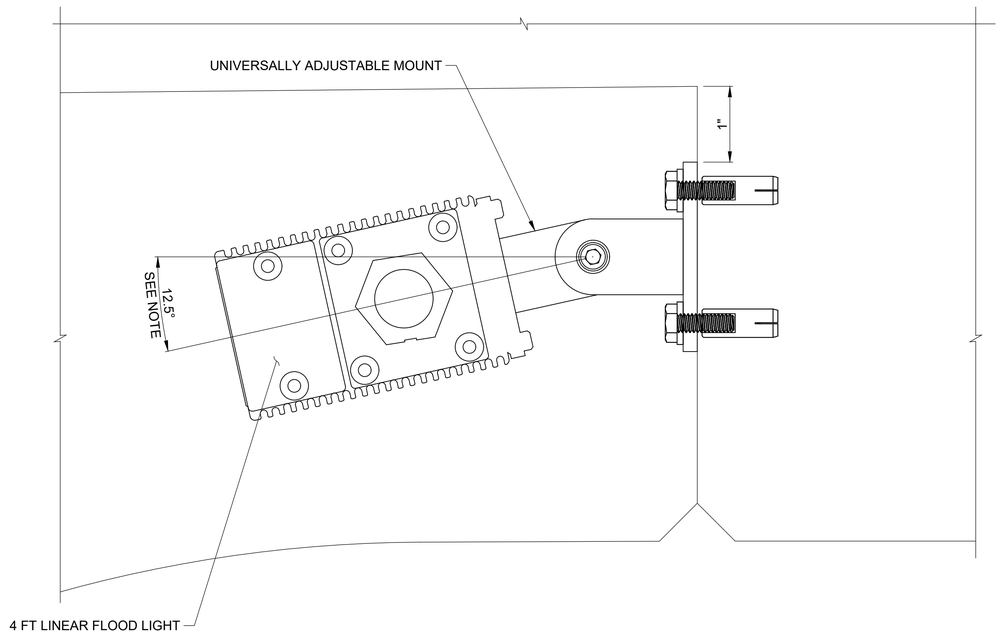
1S-097 / S-097 **ELEVATION DETAIL**
SCALE: NTS

NOTES:

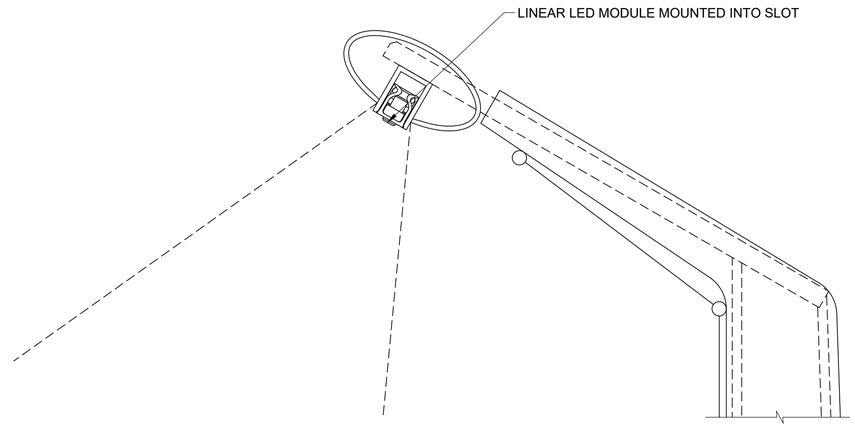
1. ANGLE OF FLOOD LIGHT TO BE ADJUSTED IN THE FIELD SUCH THAT THE LIGHT DOES NOT DIP BELOW THE SOFFIT.
2. LED DETAILS ARE INDICATIVE AND ARE NOT TO SCALE.

LIGHTING SCHEDULE

NAME	# OF FIXTURES OR LENGTH	MANUFACTURER	OPTICS OR LIGHT TYPE
RL1	824 LINEAR FEET	WAGNER	LOW VOLTAGE LED 60 DEGREE BEAM SPREAD
AL1	428	LUMEN PULSE	1 ft LONG LINEAR WALL WASH LIGHT/5 DEGREE TILTED 20X80 OPTICS
SL1	60	LUMEN PULSE	4 ft LONG LINEAR FLOOD LIGHT/50x80 OPTICS



2S-097 / S-098 **SOFFIT LIGHT DETAIL**
SCALE: 1'-0" = 1'-0"



3S-097 / S-098 **RAIL LIGHT DETAIL**
SCALE: 6" = 1'-0"

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SCALE: AS NOTED
DRAWN: Y.WANG
CHECKED: R. KELLY
DESIGNED: H. RUTHRAUFF
ENGINEER / ARCHITECT

AVALON PEDESTRIAN BRIDGE

LIGHTING DETAILS 3

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

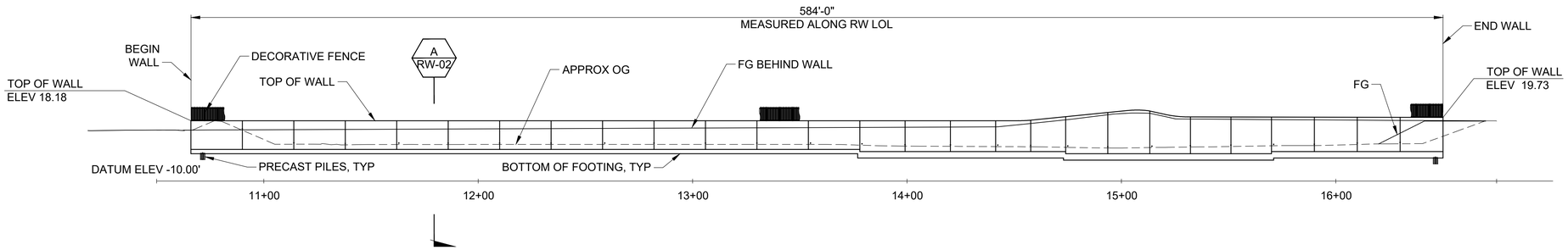
DRAWING NUMBER 1-3302
SHEET NUMBER S-099

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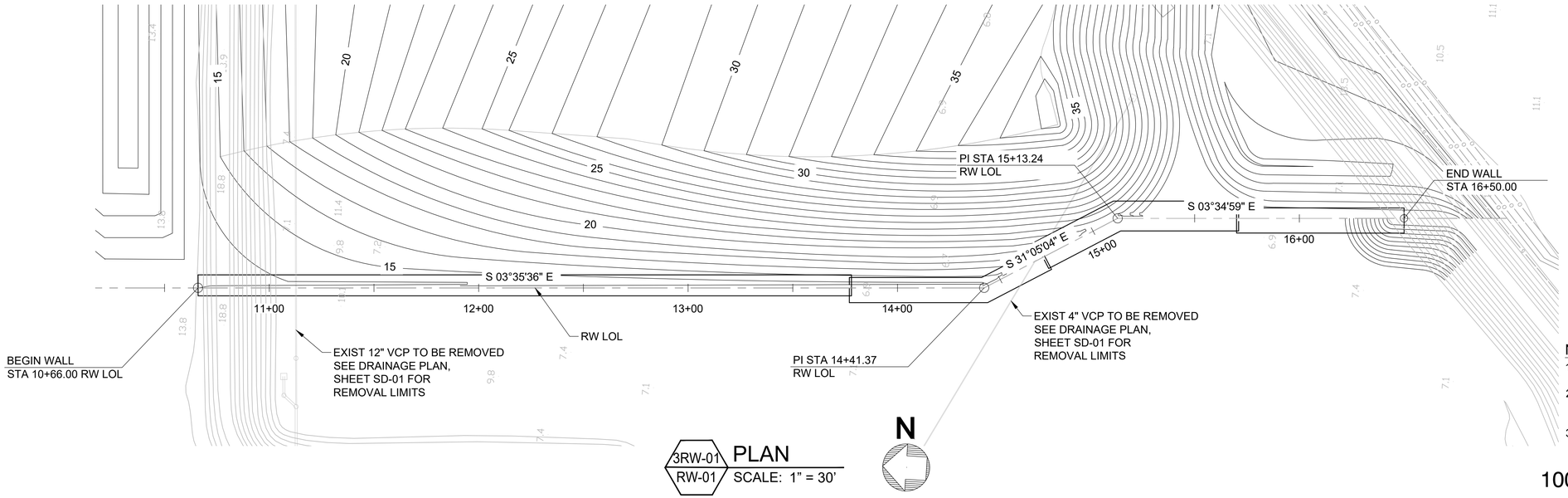
1RW-01 / RW-01 TOP OF WALL PROFILE GRADE

SCALE: NTS



2RW-01 / RW-01 DEVELOPED ELEVATION

SCALE: 1" = 30'



3RW-01 / RW-01 PLAN

SCALE: 1" = 30'

NOTES:

1. FOR SECTION A-A, SEE SHEET RW-02.
2. FOR DETAILED WALL LAYOUT, SEE SHEETS RW-03 THROUGH RW-05.
3. FOR PILE LAYOUT, SEE SHEETS RW-03 THROUGH RW-05.

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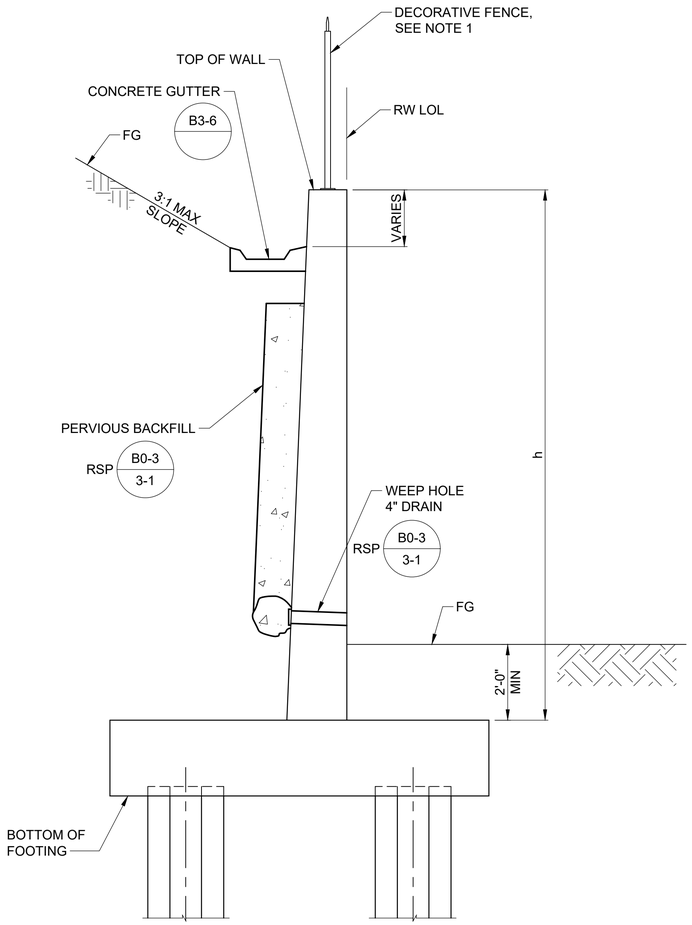
AVALON PEDESTRIAN BRIDGE

RETAINING WALL GENERAL PLAN

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3302
SHEET NUMBER: RW-01

DATE: Jan. 24, 2020 10:41 AM XREFS:XREF_PoLA_Border IMAGES:
POLAPROT_102012_R.B.



ARW-02 / RW-01 SECTION
SCALE: 1/2" = 1'-0"

NOTES:

1. POST INSTALLATION SHALL BE PER AMETCO'S MANUFACTURER'S SPECIFICATIONS. SEE SHEET RW-08.
2. FOR RETAINING WALL PILE LAYOUT AND SPACING, SEE RETAINING WALL LAYOUT, SHEET RW-03 TO RW-05.

GENERAL NOTES

LOAD AND RESISTANCE FACTOR DESIGN:

DESIGN: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION AND CALTRANS AMENDMENTS, DATED APRIL 2019

LA DBS INFORMATION BULLETIN FOR RETAINING WALL DESIGN, DOCUMENT NO P/BC 2020-083

SEISMIC DESIGN: $K_h = 0.306$
$K_v = 0.0$
$Y_{EFP\ (SEISMIC)} = 27.5$ PCF

REINFORCED CONCRETE: f'c = 3,600 PSI
fy = 60,000 PSI

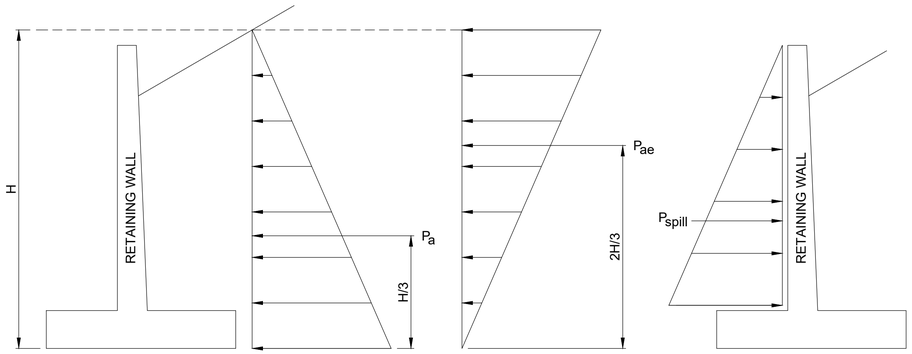
SOIL PARAMETERS: ø = 34°
y = 120 PCF
$Y_{EFP} = 38$ PCF

CALTRANS STANDARD PLANS (DATED 2018)

(WITH REVISIONS DATED APRIL 2022)

	A3A	ABBREVIATIONS (SHEET 1 OF 3)
	A3B	ABBREVIATIONS (SHEET 2 OF 3)
	A3C	ABBREVIATIONS (SHEET 3 OF 3)
	A10A	LEGEND - LINES AND SYMBOLS (SHEET 1 OF 5)
	A10B	LEGEND - LINES AND SYMBOLS (SHEET 2 OF 5)
	A10C	LEGEND - LINES AND SYMBOLS (SHEET 3 OF 5)
	A10D	LEGEND - LINES AND SYMBOLS (SHEET 4 OF 5)
	A10E	LEGEND - LINES AND SYMBOLS (SHEET 5 OF 5)
	A10F	LEGEND - SOIL (SHEET 1 OF 2)
	A10G	LEGEND - SOIL (SHEET 2 OF 2)
RSP	A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE SURCHARGE AND WALL
RSP	B0-3	BRIDGE DETAILS
	B3-5	RETAINING WALL DETAILS NO 1
	B3-6	RETAINING WALL DETAILS NO 2

DETAIL IDENTIFICATION — STANDARD PLAN SHEET NO / DETAIL NO



A. STATIC ACTIVE EARTH PRESSURE:
$P_a = 0.5\ Y_{EFP}\ H^2$

B. SEISMIC INCREMENTAL EARTH PRESSURE:
$P_{ae} = 0.5\ Y_{EFP\ (SEISMIC)}\ H^2$

DESIGN EARTH PRESSURE DIAGRAM

$P_{spill} = 0.5\ Y_{EFP\ (spill)}\ H^2$
$Y_{EFP\ (spill)} = 62.4$ PCF

SPILL LOAD DIAGRAM

PILE DATA TABLE

RW LOL STATION (FT)	DESIGN HEIGHT (FT)	PILE TYPE	CUT-OFF ELEVATION (FT)	NOMINAL RESISTANCE (KIPS)		DESIGN TIP ELEVATION (FT)	SPECIFIED TIP ELEVATION (FT)	REQUIRED NOMINAL DRIVING RESISTANCE (KIPS)
				COMPRESSION	TENSION			
10+66.00 TO 13+78.00	13	24" PC/PS OCTAGONAL PILES	3.00	750	375	-	-37.00	---
13+78.00 TO 14+74.00	16	24" PC/PS OCTAGONAL PILES	1.00	750	375	-	-39.00	---
14+74.00 TO 15+70.00	20	24" PC/PS OCTAGONAL PILES	0.00	750	375	-	-40.00	---
15+70.00 TO 16+50.00	16	24" PC/PS OCTAGONAL PILES	1.00	750	375	-	-39.00	---

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CHECKED: B. SOKOLOWSKI
DESIGNED: P. BHAKTA
ENGINEER / ARCHITECT

AVALON PEDESTRIAN BRIDGE

RETAINING WALL GENERAL NOTES

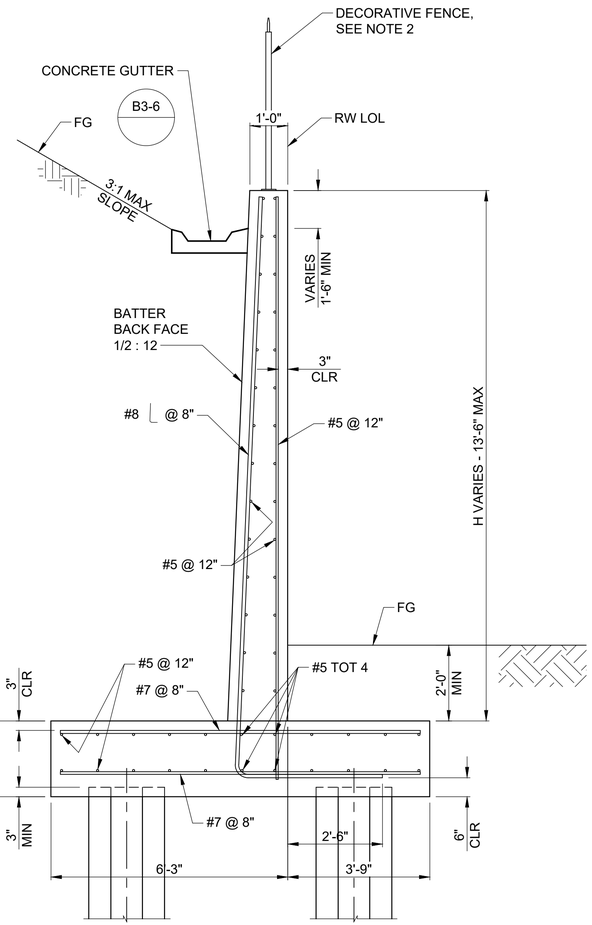
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3302
SHEET NUMBER: RW-02

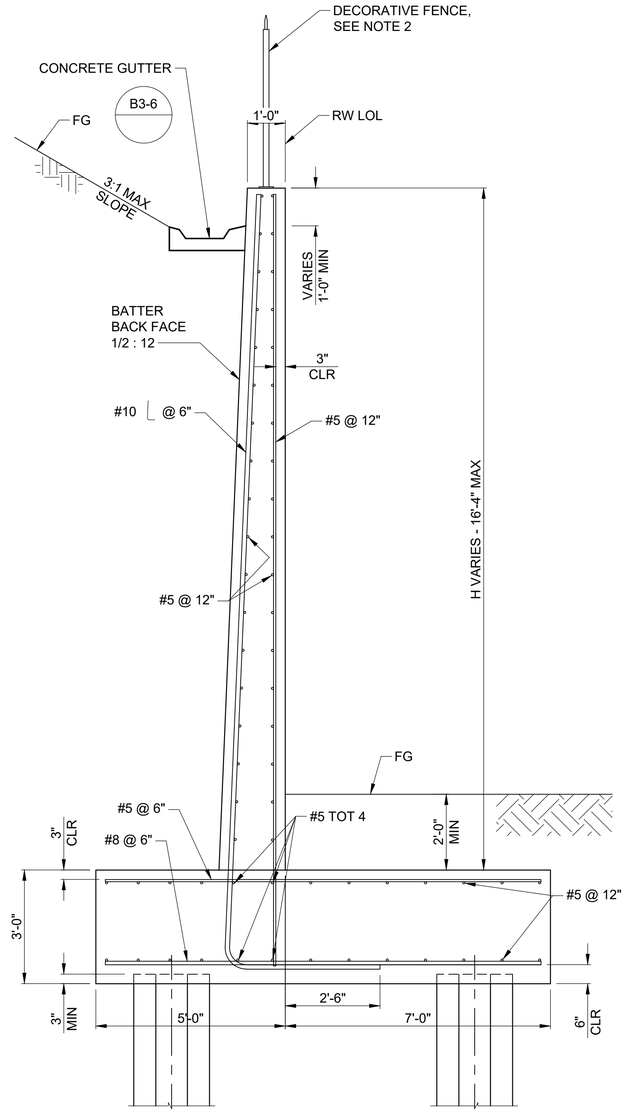
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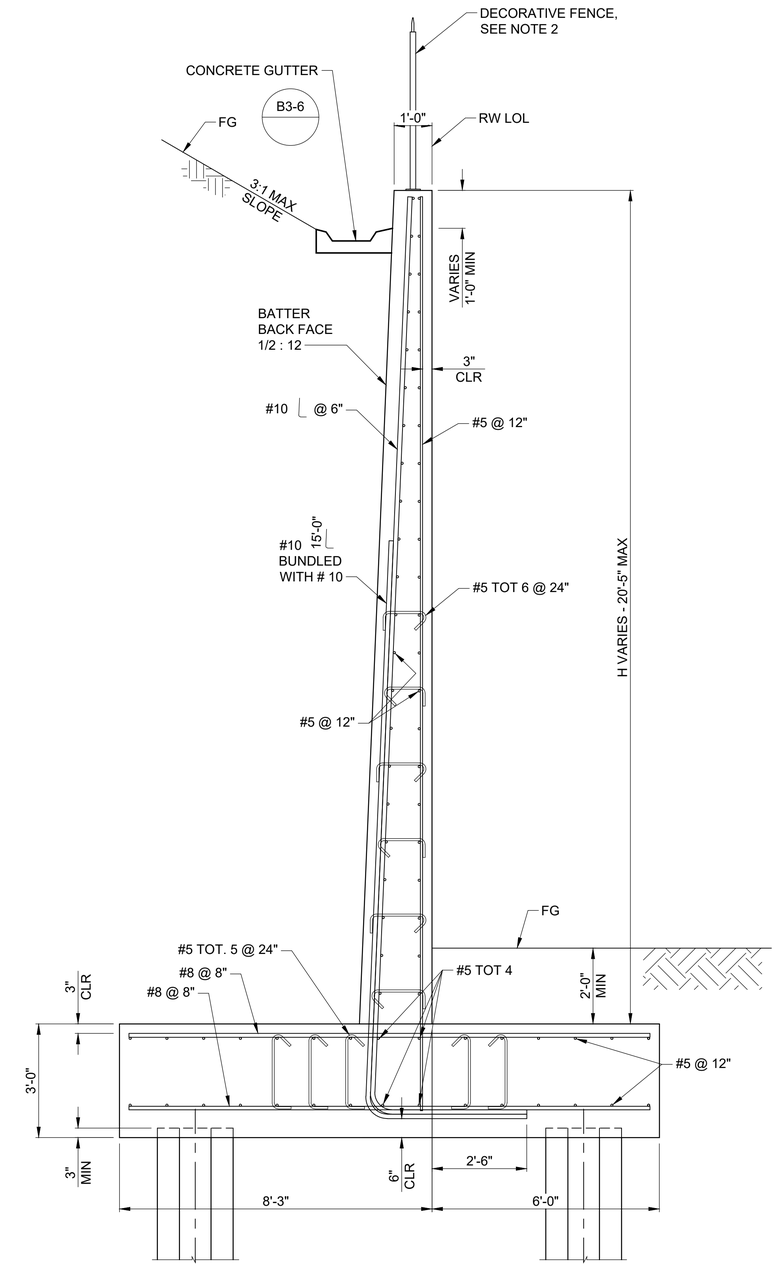
1. WEEP HOLE AND PERVIOUS BACKFILL NOT SHOWN FOR CLARITY, SEE SHEET NO RW-02. FOR DRAINAGE DETAILS AND NOTES SEE B3-5 / B0-3 3-1
2. POST INSTALLATION SHALL BE PER AMETCO'S MANUFACTURER'S SPECIFICATIONS. SEE SHEET RW-08.



1RW-06 / RW-06 TYPICAL SECTION H = 13'
SCALE: 1/2" = 1'-0"



2RW-06 / RW-06 TYPICAL SECTION H = 16'
SCALE: 1/2" = 1'-0"



3RW-06 / RW-06 TYPICAL SECTION H = 20'
SCALE: 1/2" = 1'-0"

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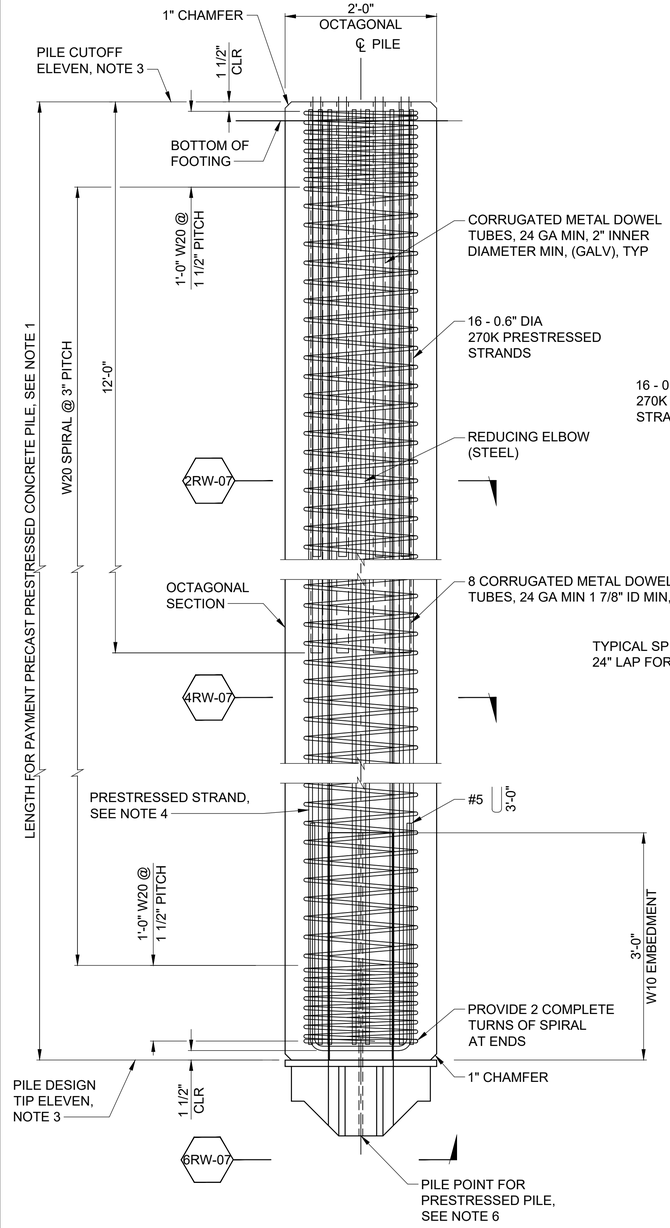
AVALON PEDESTRIAN BRIDGE

RETAINING WALL DETAILS

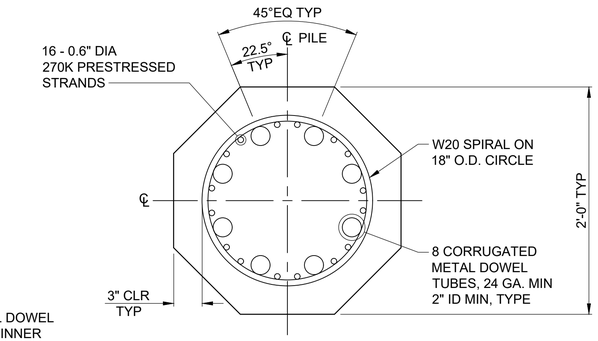
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER	SHEET NUMBER
1-3302	RW-06

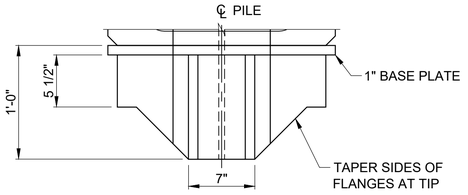
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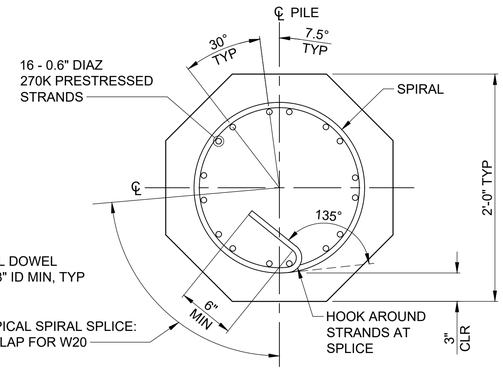
1RW-07 / RW-07 **PRECAST PRESTRESSED CONCRETE PILE**
SCALE: 1" = 1'-0"



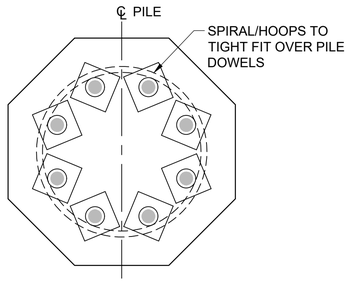
2RW-07 / RW-07 **SECTION**
SCALE: 1 1/2" = 1'-0"



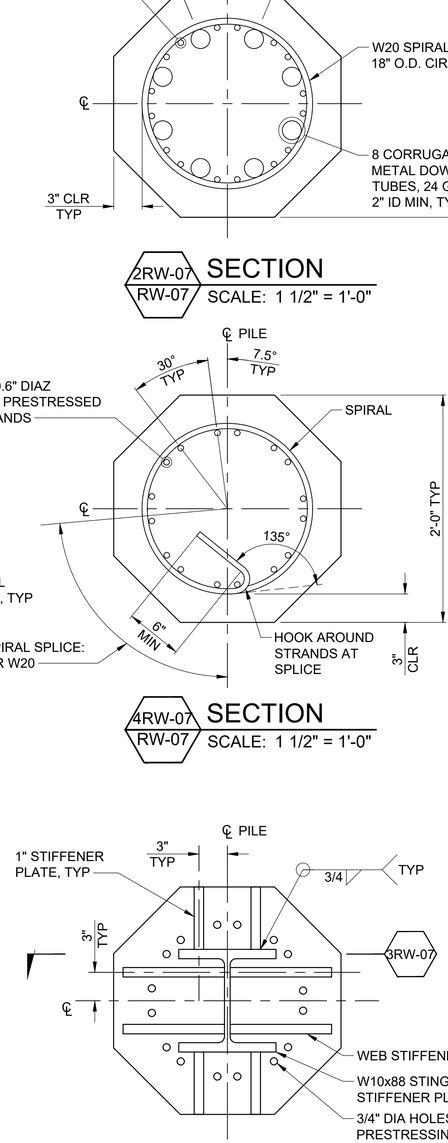
3RW-07 / RW-07 **SECTION**
SCALE: 1 1/2" = 1'-0"



4RW-07 / RW-07 **SECTION**
SCALE: 1 1/2" = 1'-0"



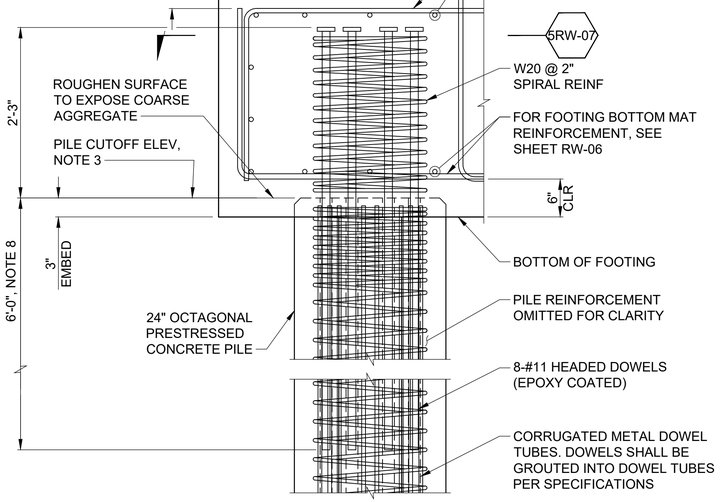
5RW-07 / RW-07 **SECTION**
SCALE: 1 1/2" = 1'-0"



6RW-07 / RW-07 **SECTION**
SCALE: 1 1/2" = 1'-0"

PILE NOTES:

1. PILE MATERIALS:
   CONCRETE: f'c @ TRANSFER = 5.0 KSI
   f'c @ TIME OF MOVING PILE = 5.2 KSI
   f'c @ 28 DAYS & TIME OF DRIVING PILE = 6.5 KSI
   PROVIDE AN APPROVED NON-SHRINK, NON METALLIC EPOXY GROUT FOR SETTING OF DOWELS. GROUT SHALL EXTEND THE FULL HEIGHT OF THE HOLE.
   REINFORCING: PRESTRESSING STEEL SHALL CONFORM TO ASTM A416 7-WIRE LOW RELAXATION STRAND (L.R.S.) GRADE 270.
   MILD STEEL DOWEL SHALL CONFORM TO ASTM A706 GRADE 60.
   EACH WRAP OF SPIRAL SHALL BE TIED TO AT LEAST 2 CORNER STRANDS.
2. JACKING FORCE STRAND SHALL BE 70% ULTIMATE = 41 KIPS
   ASSUMED LOSSES 35, 000 psi = 7.6 KIPS
   WORKING FORCE PER STRAND = 33.4 KIPS
   EFFECTIVE PRESTRESS = 1195 PSI
3. DESIGN PILE TIP ELEVATIONS AND CUTOFF ELEVATIONS, SEE SHEET RW-02.
4. PRESTRESSED CONCRETE PILE SHALL BE DRIVEN TO PILE TIP ELEVATION OR REFUSAL PER SPECIFICATIONS SECTION 02458 PRESTRESSED CONCRETE PILES.
5. JETTING FOR PILE INSTALLATION WILL NOT BE ALLOWED
6. PILE POINTS FOR PRESTRESSED PILES REQUIRED, PILE POINT SHALL BE MANUFACTURED PER CONTRACTORS REQUIREMENTS BASED ON THE DETAILS PROVIDED.
7. ALL HOOPS SHALL BE "ULTIMATE" BUTT SPLICE CONTINUOUS.
8. IF NO CORRUGATED METAL TUBING REMAINS AFTER CUT-OFF, DRILL 2" DIAMETER HOLES AND GROUT DOWELS USING NON-SHRINK GROUT, IF A PORTION OF THE CORRUGATED METAL TUBING REMAINS AFTER CUT-OFF, DRILL 1 1/2" DIAMETER HOLES. FOR GROUTING DOWELS, DOWEL TUBES SHALL BE FILLED WITHIN 2 FT FROM TOP WITH GROUT MATERIAL. PLACE DOWELS IMMEDIATELY AFTER GROUTING. MINIMUM DOWEL EMBEDMENT LENGTH IS MEASURED FROM TOP OF CUT-OFF.
9. PILE TIP SHALL CONFORM TO ASTM A36.
10. ONCE THE PILE IS DRIVEN, DO NOT APPLY ANY LATERAL FORCE TO THE PILE.



7RW-07 / RW-07 **PILE DOWEL DETAIL**
SCALE: 1" = 1'-0"

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DESIGNED: P. BHAKTA
ENGINEER / ARCHITECT

AVALON PEDESTRIAN BRIDGE

RETAINING WALL PILE DETAILS

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

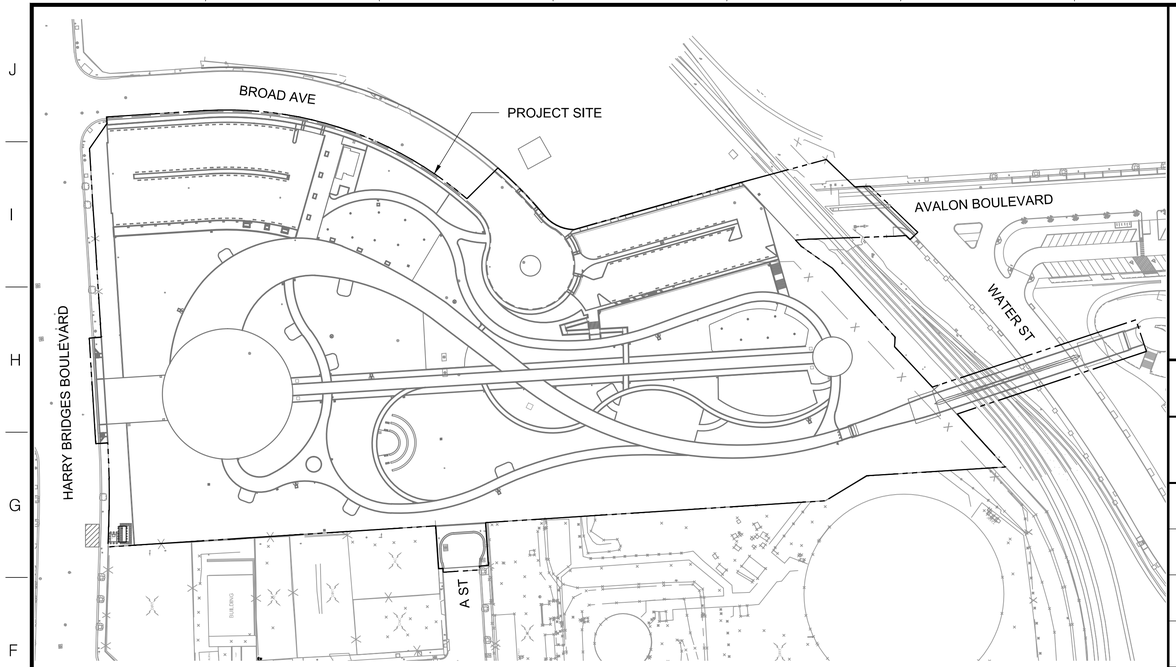
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PORT OF LOS ANGELES

1-3472
AVALON PROMENADE GATEWAY

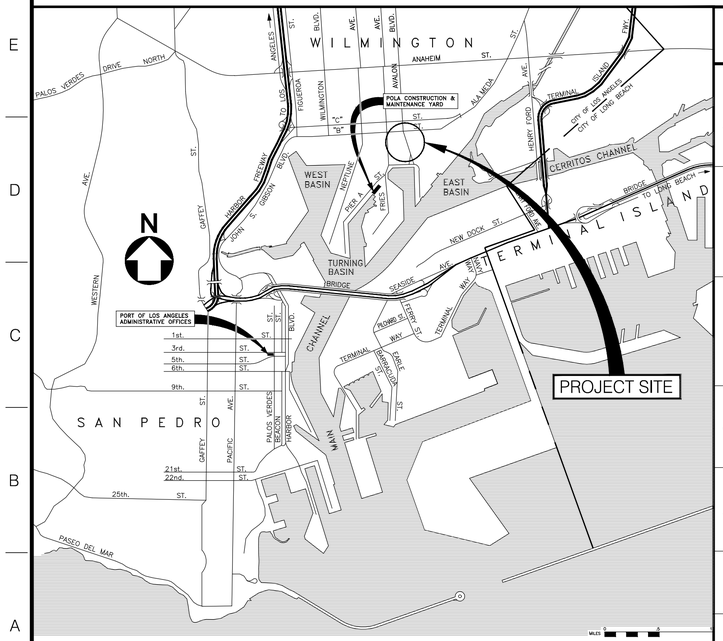
SPECIFICATION NO. 2804



1T-02 / T-02 SITE PLAN
SCALE: 1" = 100'

INDEX TO DRAWINGS

DRAWING NUMBER	TITLE	DRAWING NUMBER	TITLE
1-3472 T-01	COVER SHEET	1-3472 U-03	EXISTING UTILITY PLAN - AREA 3
1-3472 T-02	INDEX TO DRAWINGS, SITE PLAN, VICINITY MAP, AND REFERENCING SYSTEM	1-3472 U-04	EXISTING UTILITY PLAN - AREA 4
1-3472 T-03	INDEX TO DRAWINGS	1-3472 U-05	EXISTING UTILITY PLAN - AREA 5
1-3472 T-04	INDEX TO DRAWINGS		
1-3472 T-05	INDEX TO DRAWINGS	1-3472 R-00	REMOVAL SITE PLAN AND NOTES
1-3472 T-06	INDEX TO DRAWINGS	1-3472 R-00A	REMOVAL NOTES
		1-3472 R-01	REMOVALS PLAN - AREA 1
1-3472 GN-01	GENERAL NOTES AND CONSTRUCTION NOTES	1-3472 R-02	REMOVALS PLAN - AREA 2
1-3472 GN-02	ABBREVIATIONS	1-3472 R-03	REMOVALS PLAN - AREA 3
		1-3472 R-04	REMOVALS PLAN - AREA 4
1-3472 CC-01	HORIZONTAL COORDINATE CONTROL PLAN	1-3472 R-05	REMOVALS PLAN - AREA 5
		1-3472 R-06	REMOVALS PLAN - POINT TABLE
1-3472 PH-01	MILESTONE PLAN	1-3472 R-07	ANGEL LIGHTS RELOCATION
1-3472 PH-02	FIELD OFFICE PLAN		
1-3472 PH-03	SURCHARGE PLAN	1-3472 G-00	SITE PLAN AND GENERAL NOTES
1-3472 PH-04	SURCHARGE SECTIONS	1-3472 G-01	GRADING PLAN - AREA 1
1-3472 PH-05	SURCHARGE SECTIONS	1-3472 G-02	GRADING PLAN - AREA 2
		1-3472 G-03	GRADING PLAN - AREA 3
1-3472 U-00	EXISTING UTILITY SITE PLAN AND NOTES	1-3472 G-04	GRADING PLAN - AREA 4
1-3472 U-01	EXISTING UTILITY PLAN - AREA 1	1-3472 G-05	GRADING PLAN - AREA 5
1-3472 U-02	EXISTING UTILITY PLAN - AREA 2	1-3472 G-06	GRADING COORDINATE TABLE



VICINITY MAP

REFERENCING SYSTEM

MAIN PLAN & ELEVATIONS
1A-01 / A-01 — DETAIL NUMBER OF PLAN OR ELEVATION NUMBERED CONSECUTIVELY ON EACH SHEET. SHEET NUMBER WHERE PLAN OR ELEVATION IS DRAWN.

MAIN DETAIL, FLAG-SECTIONS & DETAILS
2A-03 / 1A-01 — DETAIL NUMBER OF SECTION OR ELEVATION NUMBERED CONSECUTIVELY ON EACH SHEET. SHEET NUMBER WHERE SECTION OR ELEVATION IS DRAWN. DETAIL & SHEET NUMBER WHERE SECTION OR DETAIL REFERENCE ORIGINATED.

SUB-DETAIL, FLAG-INTERIOR, ELEVATIONS & DETAILS
A / 2A-04 — SUB-DETAIL NUMBER OF INTERIOR ELEVATION OR DETAIL CONSECUTIVELY LISTED ALPHABETICALLY. DETAIL & SHEET NUMBER WHERE SUB-DETAIL REFERENCE ORIGINATED.

REFERENCE FLAG
2A-05 — DETAIL & SHEET NUMBER WHERE DETAIL, SECTION DETAIL OR ELEVATION IS DRAWN.

SECTION FLAG
2A-05 — ARROW INDICATES DIRECTION OF CUT-VIEW. DETAIL & SHEET NUMBER WHERE SECTION OR DETAIL IS DRAWN.

A / D / X / B / C — INTERIOR ELEVATION CALLOUT. DRAWN ELEVATION CALLOUT WHERE MULTI ELEVATION OCCURS.

REVISION SYMBOL
A — REVISION NUMBER (ALPHABETIC DESIGNATION-PRIOR TO BID OPENING. NUMERIC DESIGNATION APPROVED DURING CONSTRUCTION). CLOUDED AREA DESIGNATES REVISED AREA.

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: C. CASTRO
CHECKED: N. PRECIADO
DESIGNED: C. CASTRO
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

AVALON PROMENADE GATEWAY

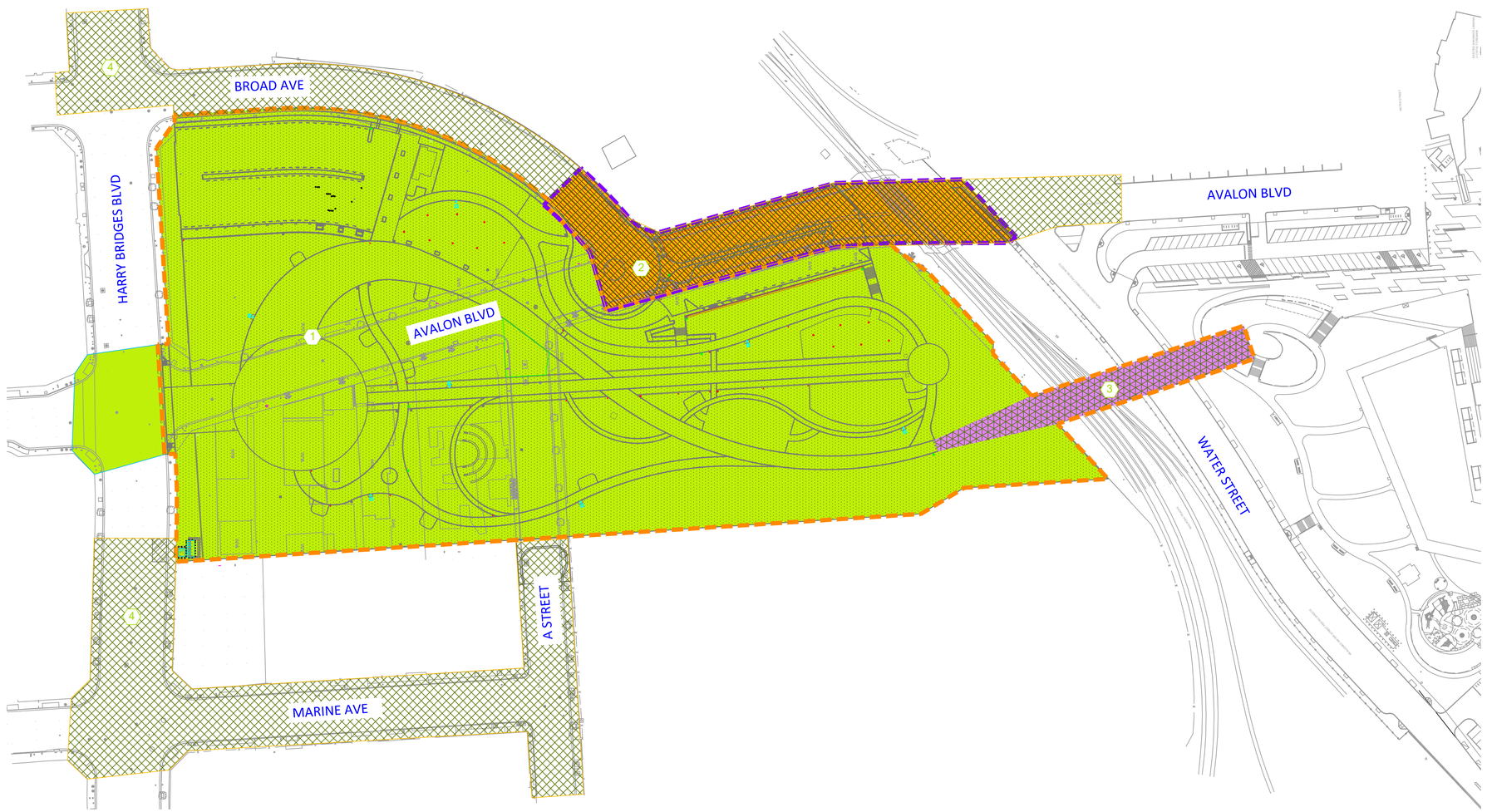
INDEX TO DRAWINGS, SITE PLAN, VICINITY MAP, AND REFERENCING SYSTEM

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472
SHEET NUMBER T-02

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POLAPROT_04.0223_BWD

PROJECT AREA SCHEDULE (MONTHS)						SCHEDULE (MONTHS)																												
MILESTONE	AREA	ACTIVITY DESCRIPTION	START OF ACTIVITY FROM NTP (CD)	DURATION (CD)	NTP TO MILESTONE COMPLETION (CD)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	1	SEE BELOW	0	900	900																														
2	2	SEE BELOW	720	180	900																														
3	3	SEE BELOW	0	180	180																														
4	4	SE BELOW	300	210	510																														



1PH-01 / PH-01 MILESTONE PLAN
SCALE: 1" = 80'

N

80' 0' 80' 160'
SCALE: 1"=80'

LEGEND

- MILESTONE 1A CONSTRUCTION FENCE
- MILESTONE 2A CONSTRUCTION FENCE
- AREA 1
- AREA 4
- AREA 2
- AREA 3

NOTE:
1. SEE BELOW FOR DESCRIPTION OF WORK FOR EACH AREA

AREA 1 WORK:

COORDINATE WITH LADWP FOR OVERHEAD TO UNDERGROUND CONVERSION
DEMOLITION AND REMOVALS
UTILITY WORK INCLUDING LADWP WATER AND POWER, BOE STORM DRAIN
EARTHWORK
CONSTRUCT ALL WORK WITHIN CITY OF LOS ANGELES JURISDICTION
INCLUDING B-PERMIT SCOPE OF WORK
TEMPORARY TRAFFIC SIGNAL PHASING
TEMPORARY TRAFFIC CONTROL SETUP AT
1. HARRY BRIDGS BLVD / AVALON BLVD INTERSECTION;
2. BROAD AVE/AVALON BLVD INTERSECTION; AND
3. A STREET BETWEEN MARINE AVE AND AVALON BLVD
TRAFFIC SIGNAL MODIFICATIONS
CONSTRUCT FILL
CONSTRUCT AND REMOVE SURCHARGE
CONSTRUCT RESTROOM
CONSTRUCT FENCING
CONSTRUCT FURNISHINGS
CONSTRUCT PLAYGROUNDS AND OUTDOOR GYM AREAS
CONSTRUCT HARDSCAPE AND LANDSCAPE
CONSTRUCT NORTH PARKING LOT
CONSTRUCT STREET LIGHTING
INDICATOR PILES
CAST PILES
DRIVE PILES
CONSTRUCT RETAINING WALL

AREA 2 WORK:

CONSTRUCT ALL WORK WITHIN CITY OF LOS ANGELES JURISDICTION
INCLUDING B-PERMIT SCOPE OF WORK
TEMPORARY TRAFFIC CONTROL SETUP AT
1. BROAD AVE/AVALON BLVD INTERSECTION; AND
DEMOLITION AND REMOVALS
CONSTRUCT STREET LIGHTING
COORDINATE WITH PHL AND PROVIDE ACCESS TO THEIR LOT AT ALL TIMES

AREA 3 WORK:

REMOVAL AND DEMOLITION FOR WILMINGTON WATERFRONT PROMENADE
BRIDGE INDICATOR PILE DRIVING (NORTH)
BRIDGE CONCRETE PILE DRIVING (NORTH)
BRIDGE INDICATOR PILE DRIVING (SOUTH)
BRIDGE CONCRETE PILE DRIVING (SOUTH)
BRIDGE CONSTRUCTION FALSEWORK
ARCH FOUNDATIONS
SOUTH ABUTMENT
NORTH ABUTMENT
SUPERSTRUCTURE

AREA 4 WORK:

COORDINATE LADWP UTILITY OVERHEAD TO UNDERGROUND CONVERSION

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: C. CASTRO
CHECKED: N. PRECIADO
DESIGNED: C. CASTRO
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

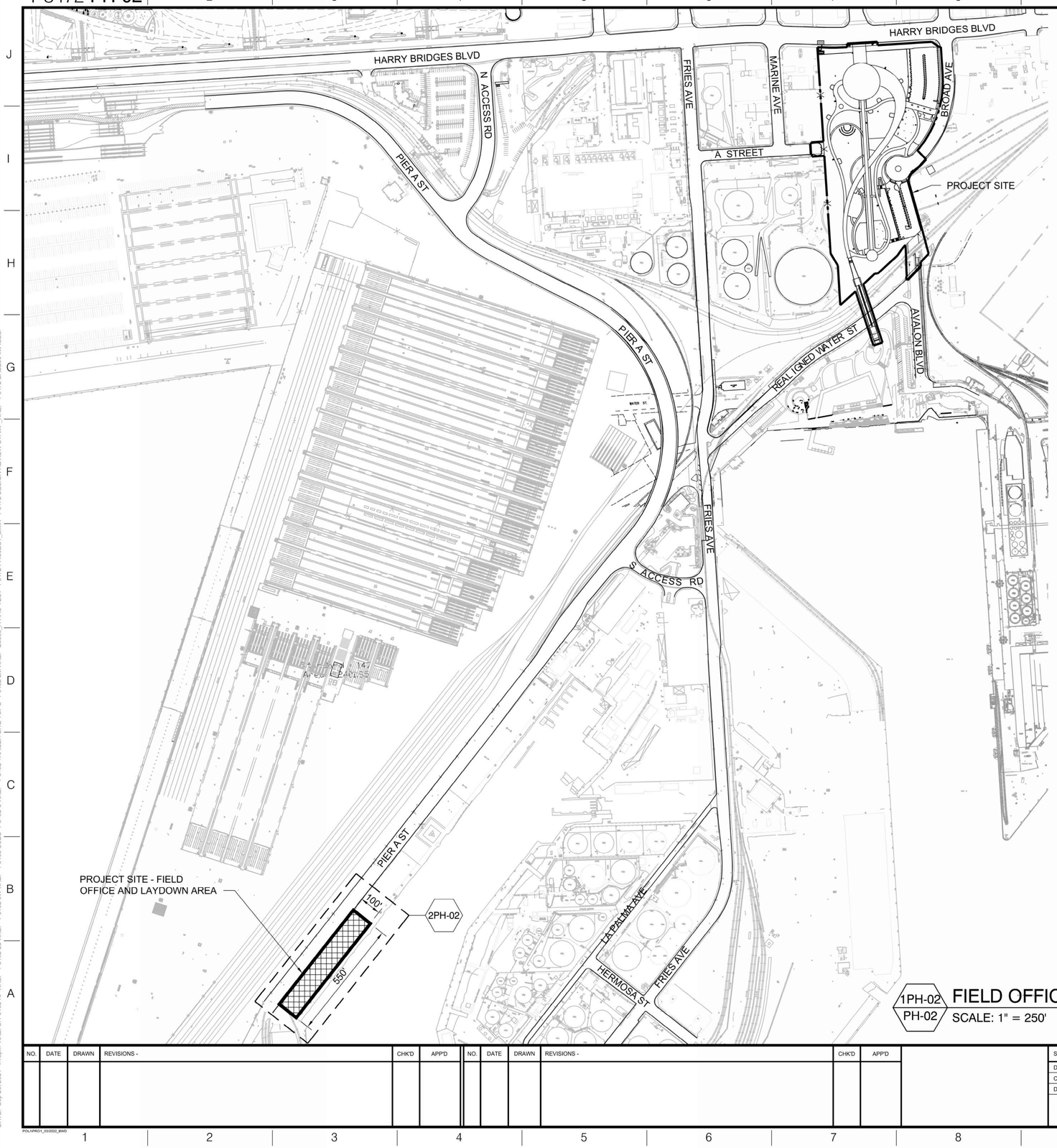
AVALON PROMENADE GATEWAY

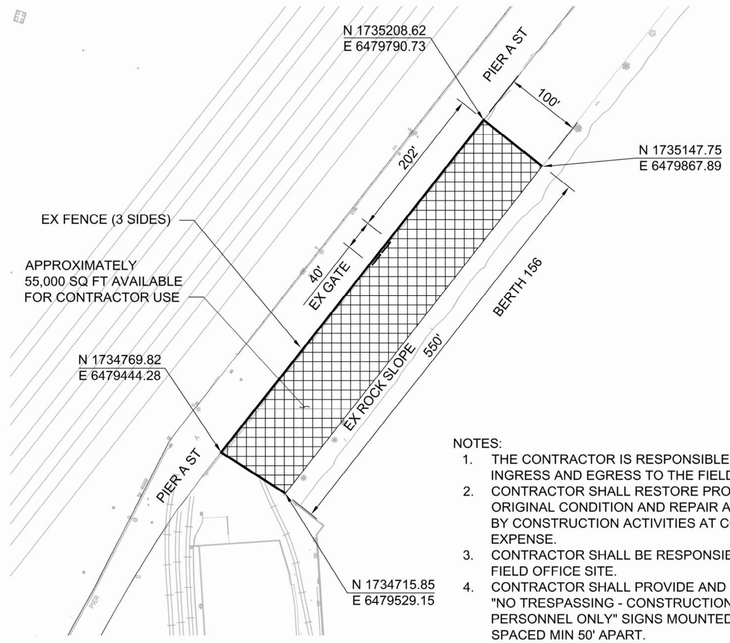
MILESTONE PLAN

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472
SHEET NUMBER PH-01

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POLAPR21_03/2022_BWD





NOTES:
1. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE SAFE INGRESS AND EGRESS TO THE FIELD OFFICE SITE.
2. CONTRACTOR SHALL RESTORE PROJECT SITE TO ORIGINAL CONDITION AND REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES AT CONTRACTOR'S EXPENSE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF FIELD OFFICE SITE.
4. CONTRACTOR SHALL PROVIDE AND MAINTAIN 10"X14" SIZE "NO TRESPASSING - CONSTRUCTION ZONE, AUTHORIZED PERSONNEL ONLY" SIGNS MOUNTED ON FENCING AND SPACED MIN 50' APART.

2PH-02 / 1PH-02 **ENLARGED FIELD OFFICE SITE PLAN**
SCALE: 1" = 100'

1PH-02 / PH-02 **FIELD OFFICE SITE PLAN**
SCALE: 1" = 250'

N

0 250' 500'

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: C. CASTRO
CHECKED: C. HONEYBONE
DESIGNED: C. CASTRO
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

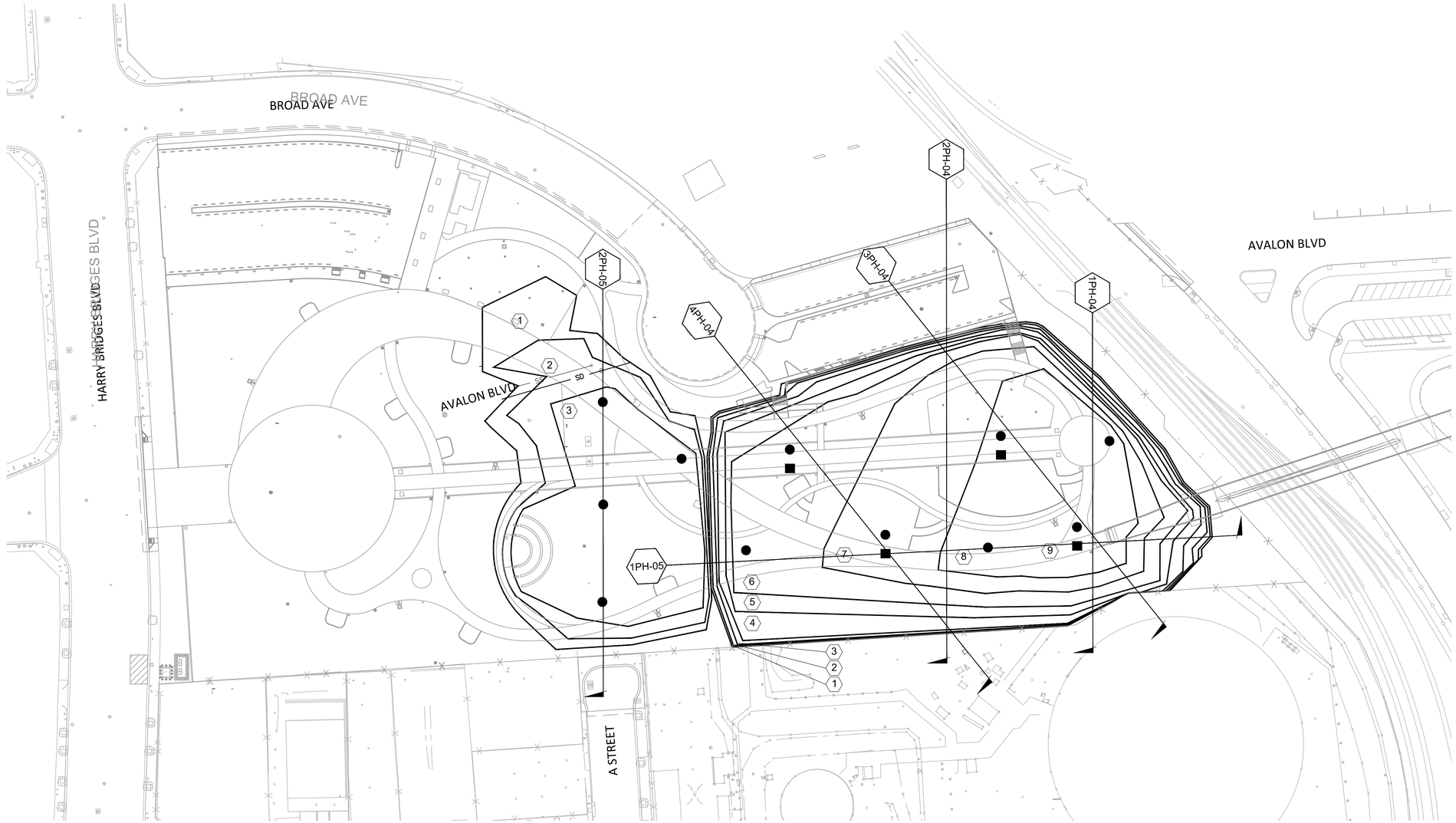
AVALON PROMENADE GATEWAY

FIELD OFFICE PLAN

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3472
SHEET NUMBER: PH-02

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POLAPRO1_03/2022_BWD



SURCHARGE LEGEND FILL HEIGHT

- 1 — 2-3 FT
- 2 — 3-5 FT
- 3 — 5-8 FT
- 4 — 8-12 FT
- 5 — 12-15 FT
- 6 — 15-20 FT
- 7 — 20-25 FT
- 8 — 25-30 FT

SURCHARGE FILL HEIGHT NOTES:

1. SEE SURCHARGE REQUIREMENTS AND NOTES BELOW
2. SEE G SHEETS FOR PROPOSED GRADES

● SETTLEMENT PLATES
■ SETTLEMENT MONUMENTS

MILESTONE 1A CONSTRUCTION FENCE

SURCHARGE REQUIREMENTS:

I.

SURCHARGE REQUIREMENTS FOR AREAS RECEIVING FILL MATERIALS	
FILL HEIGHT (FT)	SURCHARGE MINIMUM HEIGHT (FT) SEE NOTE 1 / 6 MONTH SURCHARGE PERIOD (SEE NOTE 2)
2-3 (SEE NOTE 3)	2
3-5	3
5-8	4
8-12	5
12-15	6
15-20	8
20-25	12
25-30	15

SURCHARGE REQUIREMENTS (NON-RESTROOM AREA) NOTES:

1. SURCHARGE FILL HEIGHT AS NOTED IN THE TABLE ABOVE IS MEASURED FROM THE FINISHED GRADE OF LANDSCAPE AREAS AND FINISHED FLOOR OF PROPOSED STRUCTURES. TOTAL THICKNESS OF SURCHARGE LAYER IS MEASURED FROM SUBGRADE TO TOP OF SURCHARGE FILL HEIGHT. SURCHARGE FILL HEIGHT AS NOTED IN THE TABLE ARE MINIMUM HEIGHTS. SEE G SHEETS.
2. SURCHARGE PERIOD STARTS AFTER THE SURCHARGE HAS BEEN PLACED TO THE REQUIRED HEIGHT.
3. NO SURCHARGE IS NEEDED FOR AREAS RECEIVING LESS THAN 2 FEET OF FILL. A WAITING PERIOD OF AT LEAST 2 MONTHS IS REQUIRED AFTER PLACING THE FILL MATERIALS AND BEFORE ANY DEVELOPMENT ON TOP OF THE FILL. CONTRACTOR SHALL VERIFY ELEVATION HAS NOT CHANGED AND ADD MATERIAL AFTER WAITING PERIOD IF NECESSARY
4. CONTRACTOR SHALL MAINTAIN A 30'-0" OFFSET FROM FACE OF RETAINING WALL. WHERE SURCHARGE SLOPES ARE STEEPER THAN 1.5H:2V, CONTRACTOR SHALL USE APPROPRIATE MEANS AND METHODS TO STABILIZE THE SLOPES DURING THE SURCHARGE PERIOD.

1PH-03 / PH-03 SURCHARGE PLAN
SCALE: 1" = 60'

N

60' 0' 60' 120'
SCALE: 1"=60'

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: C. CASTRO
CHECKED:
DESIGNED:
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

AVALON PEDESTRIAN BRIDGE AND PROMENADE GATEWAY

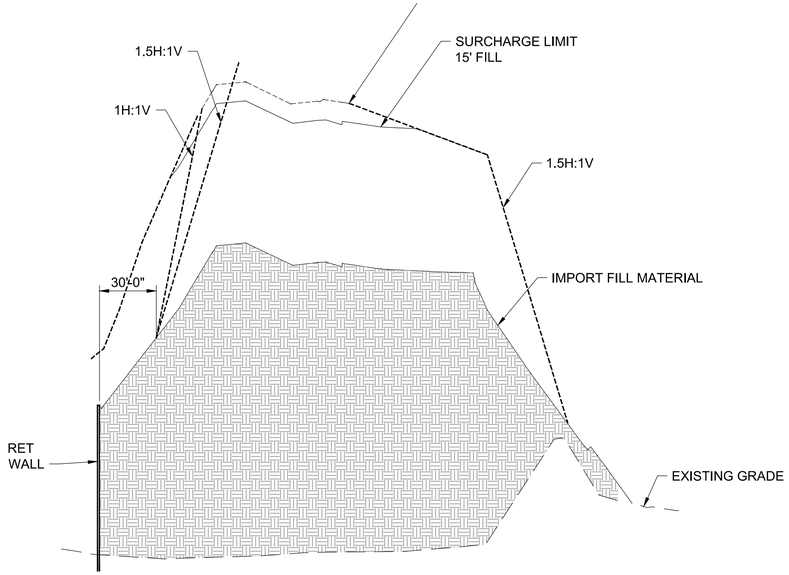
SURCHARGE PLAN

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

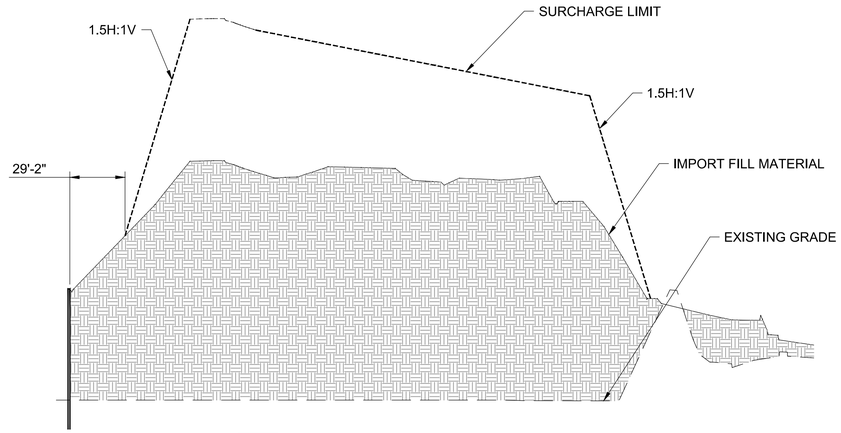
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SHEET NUMBER PH-03

POLAPRO1_04/2023_BWD

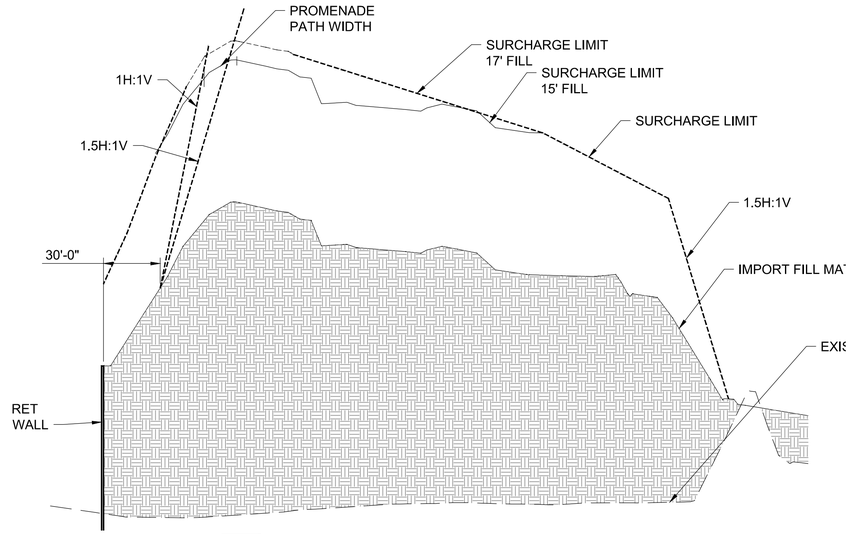
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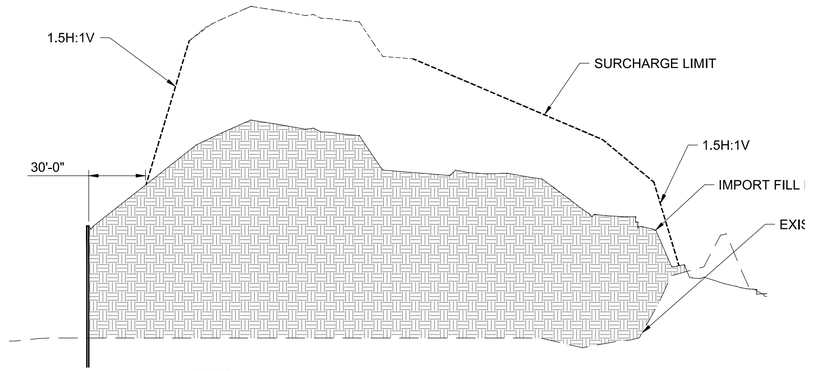
1PH-04 / PH-04 SURCHARGE SECTION
SCALE: 1" = 40'



2PH-04 / PH-04 SURCHARGE SECTION
SCALE: 1" = 40'



3PH-04 / PH-04 SURCHARGE SECTION
SCALE: 1" = 40'



4PH-04 / PH-04 SURCHARGE SECTION
SCALE: 1" = 40'

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: C. CASTRO
CHECKED: C. HONEYBONE
DESIGNED: C. CASTRO
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

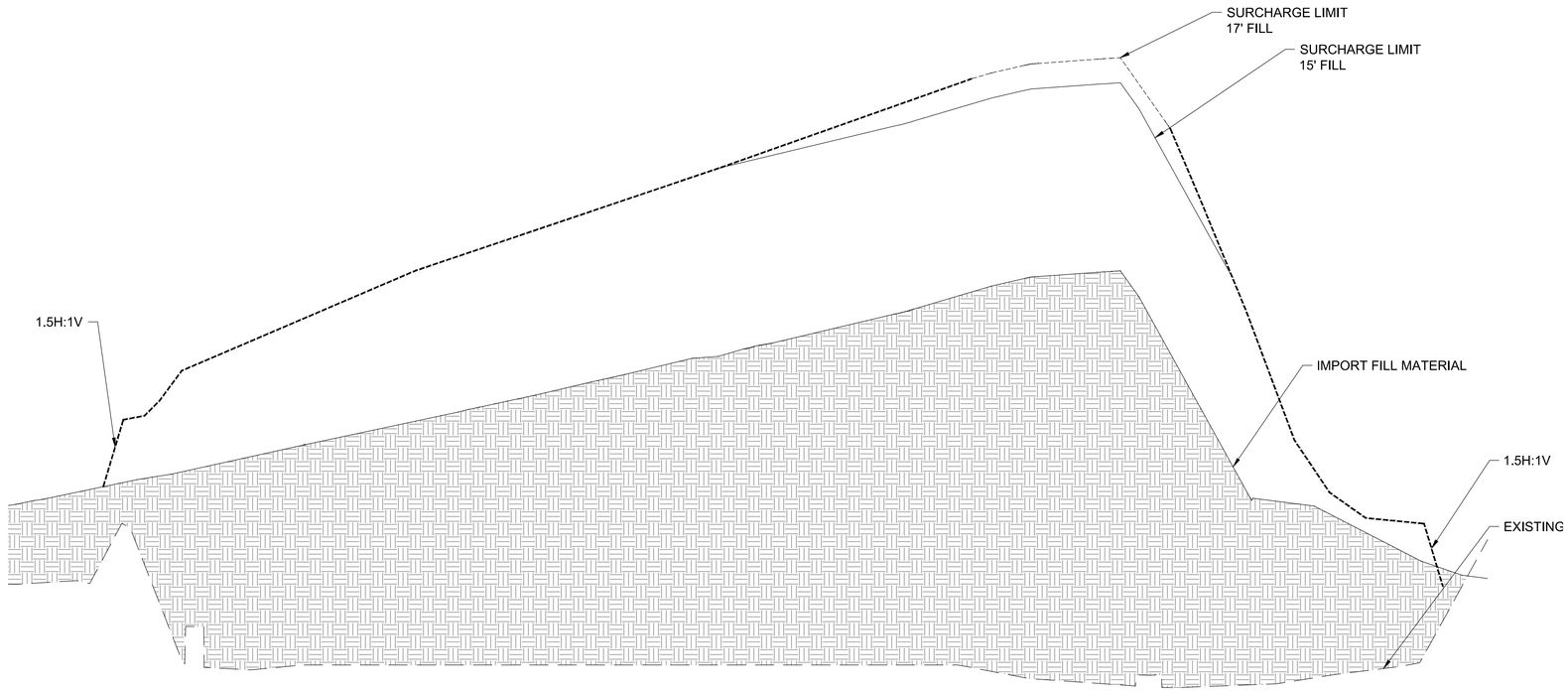
AVALON PEDESTRIAN BRIDGE AND PROMENADE GATEWAY

SURCHARGE SECTIONS

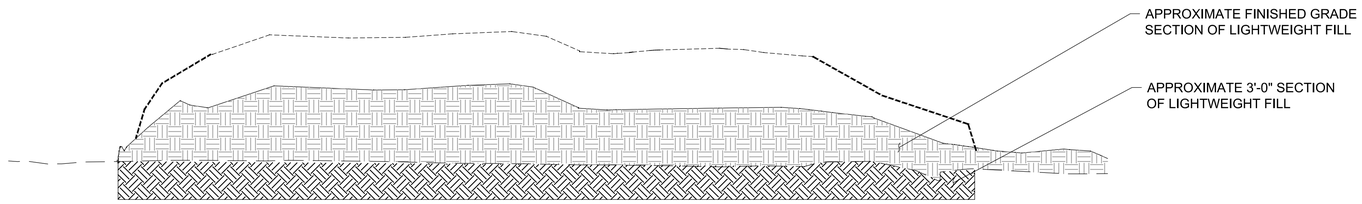
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472
SHEET NUMBER PH-04

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DATE: Sep 20, 2024 4:30pm XREFS:1-3472 PH-03 IMAGES:
POLAPRO1_03/2022_BWD



1PH-05 / PH-05 SURCHARGE SECTION
SCALE: 1" = 30'



2PH-05 / PH-05 SURCHARGE SECTION
SCALE: 1" = 30'

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: C. CASTRO
CHECKED: C. HONEYBONE
DESIGNED: C. CASTRO
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

AVALON PEDESTRIAN BRIDGE AND PROMENADE GATEWAY

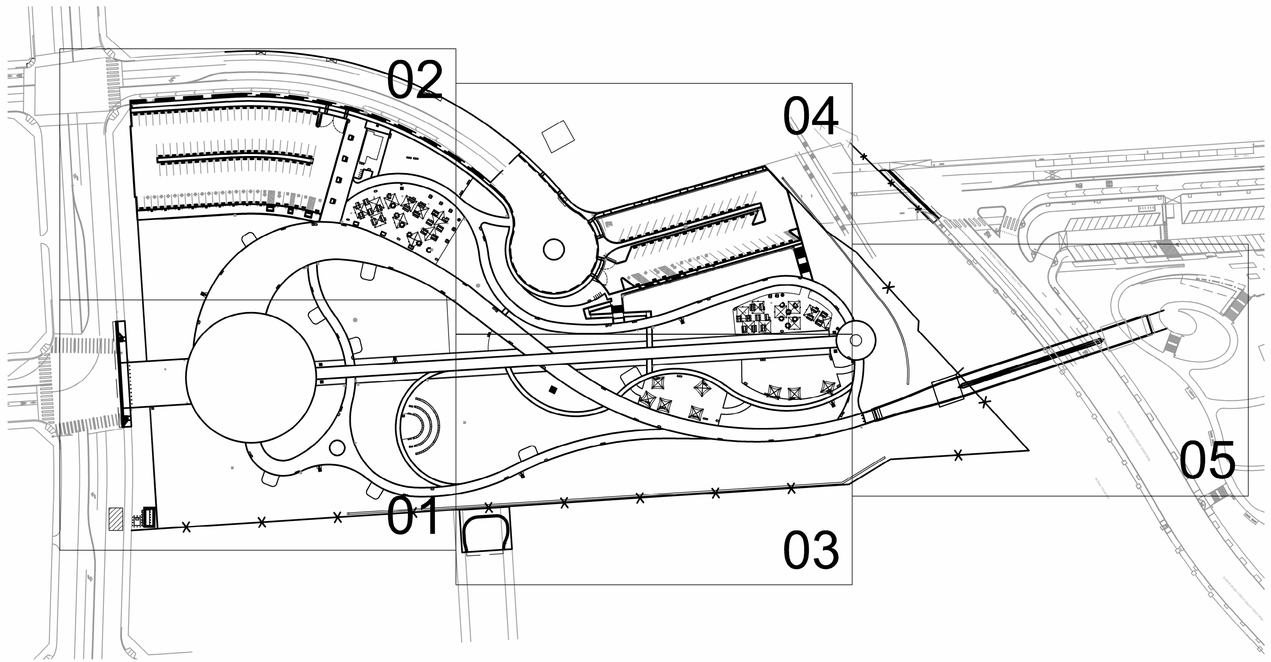
SURCHARGE SECTIONS

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472
SHEET NUMBER PH-05

POLAPRD1_03/2022_BWD

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DATE: Sep 20, 2024 4:31pm XREFS:1-3472 PH-03 IMAGES:



1LM-00
LM-00

LANDSCAPE MATERIAL SITE PLAN

SCALE: 1” = 100’

N

100' 0' 100' 200'

SCALE: 1"=100'

LANDSCAPE MATERIAL MASTER KEYNOTES			
KEYNOTE	DESCRIPTION	DETAIL / SHEETS / DWG	PLANS W/ REFERENCED KEYNOTE
1	AVALON PEDESTRIAN BRIDGE	DWG 1-3302	LM-05
2	DWP VAULT ACCESS HOLE	EL SHEETS	LM-03, LM-06
3	ANGEL LIGHT	2LD-13, EL SHEETS	LM-01
4	SITE LIGHTING	LD-13, EL SHEETS	LM-01 THRU LM-06
5	SIGNAGE	SP SHEETS	LM-02, LM-04
6	EX SIDEWALK	-	LM-01, LM-02
7	TREE WELL, 4'X6'	LP SHEETS	LM-02, LM-04
8	NOT USED	-	-
9	SAFETY SURFACE ON REINF CONC SUB-SLAB AT FLUSH CONC CURB	4LD-18	LM-03, LM-04
10	CONCRETE CURB	5LD-02	LM-02, LM-04
11	CONCRETE WHEEL STOP FOR ALL PARKING STALLS, TYP	6LD-02	LM-02, LM-04
12	LIMIT OF WALKWAY, START OF PEDESTRIAN BRIDGE, ROCKSCAPE UNDERNEATH OF BRIDGE	3LD-03	LM-05
13	8" HT CONCRETE CURB	5LD-02	LM-04, 5LM-06
14	LADWP PAD	E SHEETS	LM-01
15	WORK WITHIN B PERMIT SETS	B PERMIT SETS, CS-01	LM-01
16	FENCE	LL & SP SHEETS	LM-01, LM-03, LM-04, LM-05
17	CONCRETE TRENCH	SD SHEETS	LM-04, LM-05
18	CONC CURB @ DECOMPOSED GRANITE	4LD-03	LM-02
19	AMPHITHEATER STAGING AREA	1LD-17	LM-06
20	CONC STEPS ON EA SIDE	1LD-07	LM-06
21	24" WIDE CONC SEATING, TYP @ 3 LOCATIONS	1LD-17	LM-06
22	CATCH BASIN	SD SHEETS	LM-01 THRU LM-04
23	NOT USED	-	-
24	MAINTENANCE HOLE	SD SHEETS	LM-01, LM-04
25	SAFETY SURFACE ON CMB AT FLUSH CONC CURB	7LD-18	LM-01 THRU LM-03
26	SAFETY SURFACE ON REINF CONC SUB-SLAB AT SIDEWALK	8LD-18	LM-02, LM-04
27	PAINTED PATTERN ON CONCRETE	4LD-32	LM-06
28	THICKENED EDGE AT CONCRETE PAVING	2LD-01	LM-06
29	RESTROOM BUILDING	A SHEETS	LM-02
30	CONCRETE CURB RAMP	5LM-06	LM-02, LM-04, 5LM-06

GENERAL LANDSCAPE MATERIAL NOTES:

A. SEE LM-07 FOR LANDSCAPE MATERIAL SCHEDULE

B. SEE LJ SHEETS FOR JOINTS LAYOUTS

C. SEE LD SHEETS FOR LANDSCAPE DETAILS

D. SEE LX SHEETS FOR LANDSCAPE CROSS SECTIONS

E. SEE LI SHEETS FOR IRRIGATION LAYOUT

F. SEE LP SHEETS FOR PLANTING LAYOUT

G. SEE G SHEETS FOR GRADING LAYOUT

H. SEE SD SHEETS FOR STORM DRAIN

I. PROJECT SITE WORK SHALL BE IN CONFORMANCE WITH TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE AND AMERICANS WITH DISABILITIES ACT ACCESSIBILITY STANDARDS (ADA).

J. PAVING HATCH PATTERNS ARE FOR MATERIALS IDENTIFICATION ONLY AND DO NOT REPRESENT ACTUAL PAVING PATTERNS.

K. CLEAN PROJECT SITE DAILY OF ANY DEBRIS THAT HAVE ACCUMULATED, INCLUDING ADJACENT AREAS.

L. QUANTITIES NOTED ON DRAWINGS ARE FOR REFERENCE ONLY. VERIFY QUANTITIES.

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D
			NOT FOR CONSTRUCTION		

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D
			10% DESIGN REVIEW MON DAY, YEAR		

SCALE: AS SHOWN
DRAWN: R. HAYASHI
CHECKED: C. HONEYBONE / C. WOOSTER
DESIGNED: R. HAYASHI
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

AVALON PROMENADE GATEWAY

LANDSCAPE MATERIAL SITE PLAN

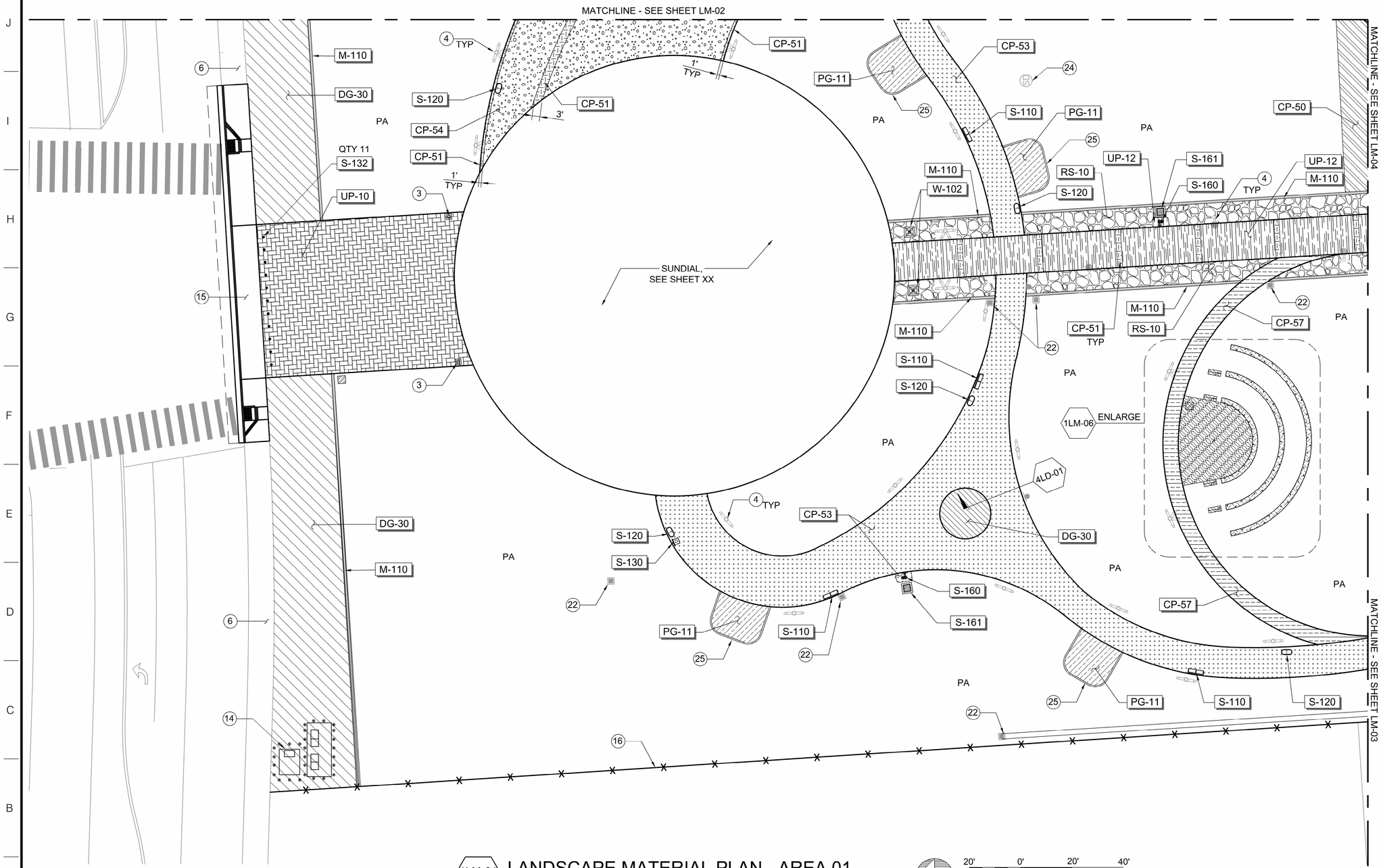
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472

SHEET NUMBER LM-00

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DATE: Jan 13, 2025 9:53am

POLAPRO1_ISO2020_BW2



LEGEND:

PA	PLANTING AREA, SEE LP SHEETS
	CONSTRUCT, SEE LM-07 FOR LANDSCAPE MATERIAL SCHEDULE
#	LANDSCAPE MATERIAL KEYNOTES

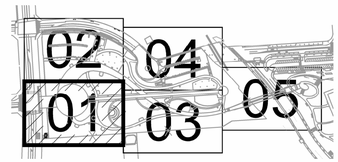
LANDSCAPE MATERIAL KEYNOTES

KEYNOTE	DESCRIPTION	DETAIL / SHEETS / DWG
3	ANGEL LIGHT	2LD-13, EL SHEETS
4	SITE LIGHTING, SEE EL SHEETS	LD-13
6	EX SIDEWALK	-
14	LADWP PAD	E SHEETS
15	WORK WITHIN B PERMIT SETS	B PERMIT SETS, CS-01
16	FENCE, SEE LL AND SP SHEETS	LL & SP SHEETS
22	CATCH BASIN	SD SHEETS
24	MAINTENANCE HOLE	SD SHEETS
25	SAFETY SURFACE ON CMB AT FLUSH CONC CURB	7LD-18

1LM-01 / LM-01 LANDSCAPE MATERIAL PLAN - AREA 01
SCALE: 1" = 20'

N

20' 0' 20' 40'
SCALE: 1"=20'



KEY MAP N
SCALE: 1" = 400'

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D
			NOT FOR CONSTRUCTION		

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D
			10% DESIGN REVIEW MON DAY, YEAR		

SCALE: AS SHOWN
DRAWN: R. HAYASHI
CHECKED: C. HONEYBONE / C. WOOSTER
DESIGNED: R. HAYASHI
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

AVALON PROMENADE GATEWAY

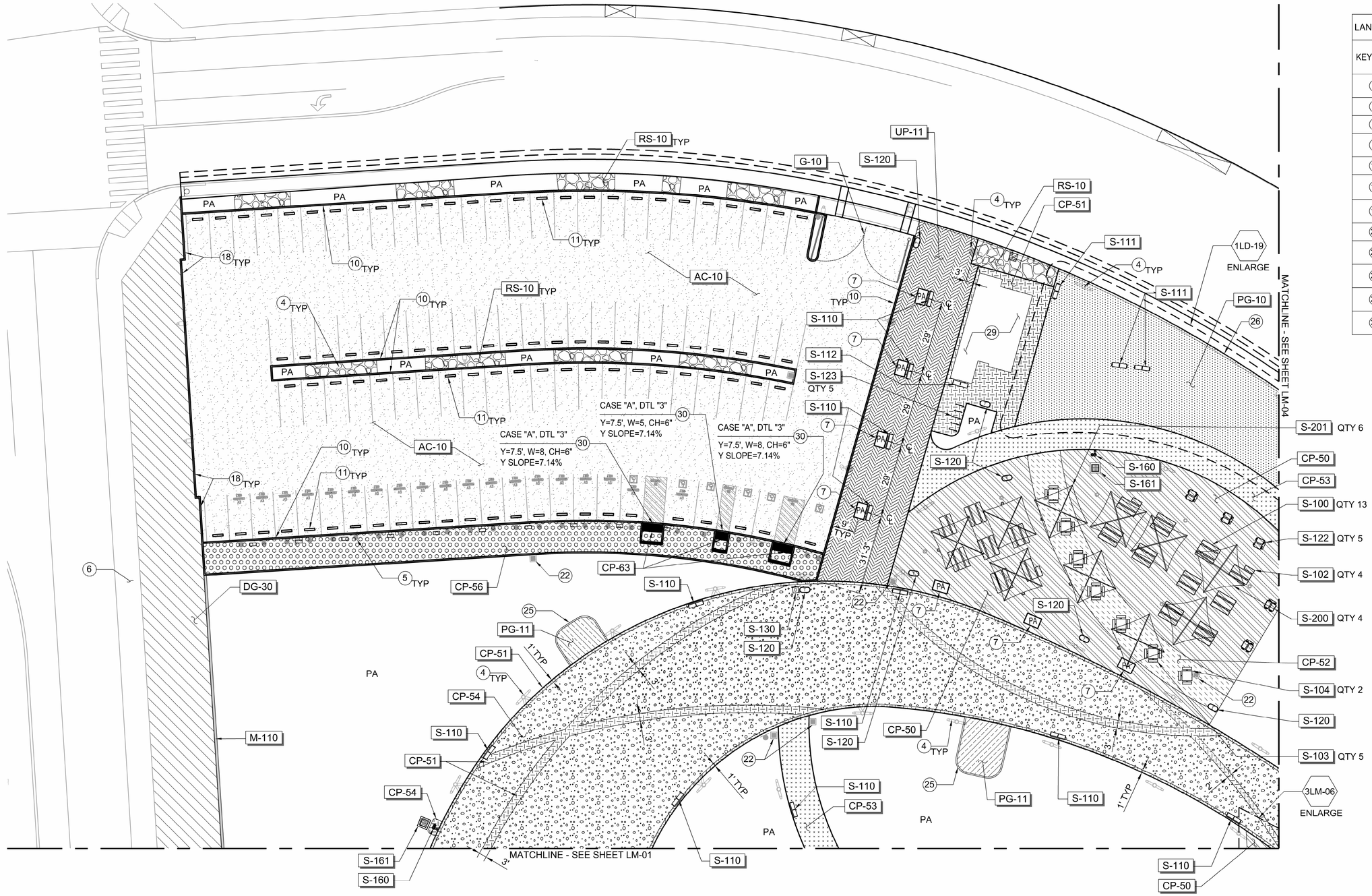
LANDSCAPE MATERIAL PLAN - AREA 01

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472
SHEET NUMBER LM-01

DWG: N:\cad\project\1-3472 Avalon Gateway\Production\LM\1-3472 LM Sheets.dwg USER: hayashir
DATE: Jan 13, 2025 9:53am

POLAPROT_03/2022_BWD



LANDSCAPE MATERIAL KEYNOTES		
KEYNOTE	DESCRIPTION	DETAIL / SHEETS / DWG
4	SITE LIGHTING	LD-13, EL SHEETS
5	SIGNAGE	SP SHEETS
6	EX SIDEWALK	-
7	TREE WELL, 4'X6'	LP SHEETS
10	CONCRETE CURB	5LD-02
11	CONCRETE WHEEL STOP FOR ALL PARKING STALLS, TYP	6LD-02
18	CONC CURB @ DECOMPOSED GRANITE	4LD-03
22	CATCH BASIN	SD SHEETS
25	SAFETY SURFACE ON CMB AT FLUSH CONC CURB	7LD-18
26	SAFETY SURFACE ON REINF CONC SUB-SLAB AT SIDEWALK	8LD-18
29	RESTROOM BUILDING	A SHEETS
30	CONCRETE CURB RAMP	5LM-06

LEGEND:

PA — PLANTING AREA, SEE LP SHEETS

CONSTRUCT, SEE LM-07 FOR LANDSCAPE MATERIAL SCHEDULE

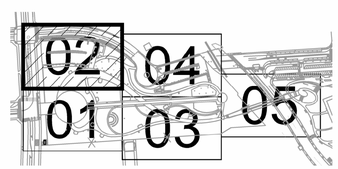
(#) — LANDSCAPE MATERIAL KEYNOTES

1LM-02 / LM-02 LANDSCAPE MATERIAL PLAN - AREA 02

SCALE: 1" = 20'

20' 0' 20' 40'

SCALE: 1"=20'



KEY MAP

SCALE: 1" = 400'

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D
			NOT FOR CONSTRUCTION		

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D
			10% DESIGN REVIEW MON DAY, YEAR		

SCALE:	AS SHOWN
DRAWN:	R. HAYASHI
CHECKED:	C. HONEYBONE / C. WOOSTER
DESIGNED:	R. HAYASHI
	ENGINEER / ARCHITECT

CHIEF OF DESIGN

ASSISTANT CHIEF HARBOR ENGINEER

CHIEF HARBOR ENGINEER DATE

AVALON PROMENADE GATEWAY

LANDSCAPE MATERIAL PLAN - AREA 02

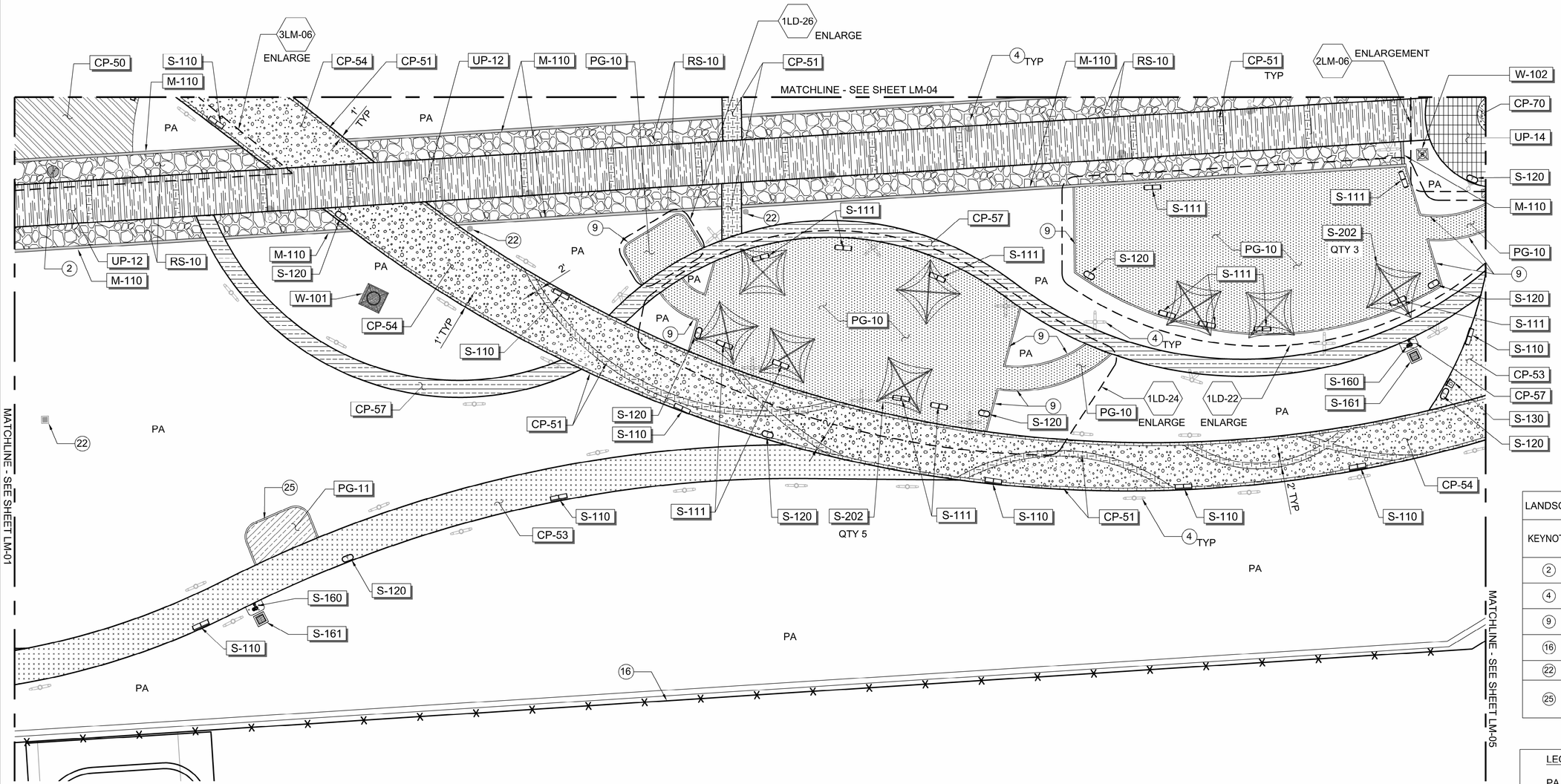
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472

SHEET NUMBER LM-02

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DATE: Jan 13, 2025 9:53am

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LANDSCAPE MATERIAL KEYNOTES		
KEYNOTE	DESCRIPTION	DETAIL / SHEETS / DWG
②	DWP VAULT ACCESS HOLE	EL SHEETS
④	SITE LIGHTING	LD-13, EL SHEETS
⑨	SAFETY SURFACE AT FLUSH CONC CURB	4LD-18
⑯	FENCE	LL & SP SHEETS
㉒	CATCH BASIN	SD SHEETS
㉕	SAFETY SURFACE ON CMB AT FLUSH CONC CURB	7LD-18

LEGEND:

PA — PLANTING AREA, SEE LP SHEETS

CONSTRUCT, SEE LM-07 FOR LANDSCAPE MATERIAL SCHEDULE

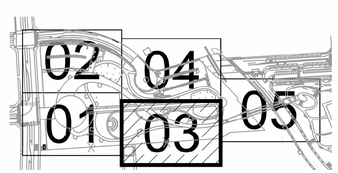
— LANDSCAPE MATERIAL KEYNOTES

1LM-03 / LM-03 LANDSCAPE MATERIAL PLAN - AREA 03

SCALE: 1" = 20'

20' 0' 20' 40'

SCALE: 1"=20'



KEY MAP

SCALE: 1" = 400'

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D
			NOT FOR CONSTRUCTION		

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D
			10% DESIGN REVIEW MON DAY, YEAR		

SCALE: AS SHOWN
DRAWN: R. HAYASHI
CHECKED: C. HONEYBONE / C. WOOSTER
DESIGNED: R. HAYASHI
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

AVALON PROMENADE GATEWAY

LANDSCAPE MATERIAL PLAN - AREA 03

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472

SHEET NUMBER LM-03

DWG: N:\cadd\project\1-3472 Avalon Gateway\Production\LM\1-3472 LM Sheets.dwg USER: hayashir
DATE: Jan 13, 2025 9:53am

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LANDSCAPE MATERIAL KEYNOTES		
KEYNOTE	DESCRIPTION	DETAIL / SHEETS / DWG
④	SITE LIGHTING	LD-13, EL SHEETS
⑤	SIGNAGE	SP SHEETS
⑦	TREE WELL, 4'X6'	LP SHEETS
⑨	SAFETY SURFACE AT FLUSH CONC CURB	4LD-18
⑩	CONCRETE CURB	5LD-02
⑪	CONCRETE WHEEL STOP FOR ALL PARKING STALLS, TYP	6LD-02
⑬	8" HT CONCRETE CURB	5LD-02
⑯	FENCE	LL & SP SHEETS
⑰	CONCRETE TRENCH	SD SHEETS
㉒	CATCH BASIN	SD SHEETS
㉔	MAINTENANCE HOLE	SD SHEETS
㉖	SAFETY SURFACE ON REINF CONC SUB-SLAB AT SIDEWALK	8LD-18
㉚	CONCRETE CURB RAMP	5LM-06

LEGEND:

PA — PLANTING AREA, SEE LP SHEETS

CONSTRUCT, SEE LM-07 FOR LANDSCAPE MATERIAL SCHEDULE

(#) — LANDSCAPE MATERIAL KEYNOTES

MATCHLINE - SEE SHEET LM-02

MATCHLINE - SEE SHEET LM-01

MATCHLINE - SEE SHEET LM-03

MATCHLINE - SEE SHEET LM-05

1LM-04 / LM-04 LANDSCAPE MATERIAL PLAN - AREA 04

SCALE: 1" = 20'

20' 0' 20' 40'

SCALE: 1"=20'

KEY MAP

SCALE: 1" = 400'

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE:	AS SHOWN
DRAWN:	R. HAYASHI
CHECKED:	C. HONEYBONE / C. WOOSTER
DESIGNED:	R. HAYASHI
	ENGINEER / ARCHITECT

CHIEF OF DESIGN

ASSISTANT CHIEF HARBOR ENGINEER

CHIEF HARBOR ENGINEER DATE

AVALON PROMENADE GATEWAY

LANDSCAPE MATERIAL PLAN - AREA 04

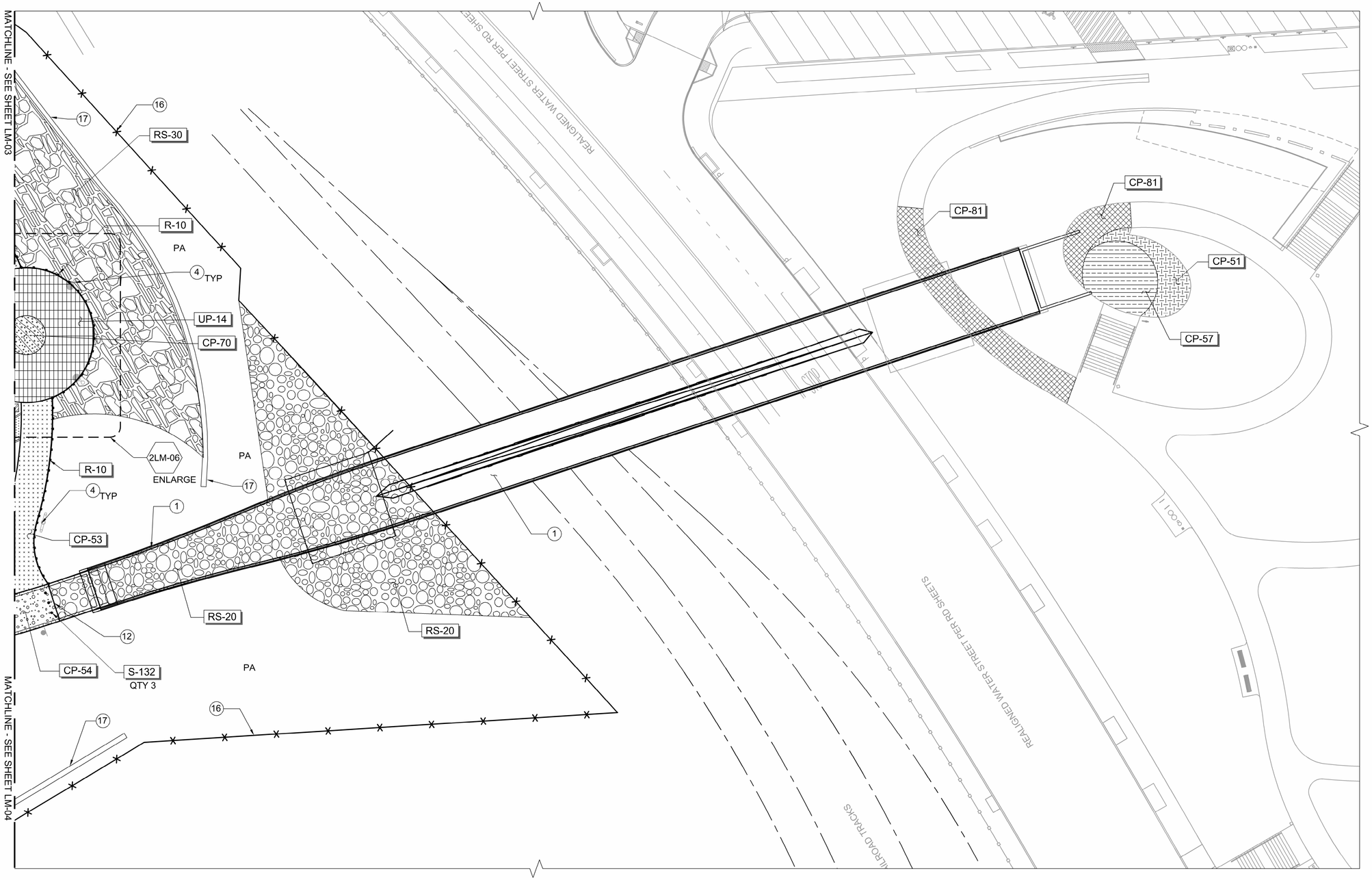
THE PORT OF LOS ANGELES
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425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472

SHEET NUMBER LM-04

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DATE: Jan 13, 2025 9:53am

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LANDSCAPE MATERIAL KEYNOTES		
KEYNOTE	DESCRIPTION	DETAIL / SHEETS / DWG
1	AVALON PEDESTRIAN BRIDGE	DWG 1-3302
4	SITE LIGHTING	LD-13, EL SHEETS
12	LIMIT OF WALKWAY, START OF PEDESTRIAN BRIDGE, ROCKSCAPE UNDERNEATH OF BRIDGE	3LD-03
16	FENCE	LL & SP SHEETS
17	CONCRETE TRENCH	SD SHEETS

LEGEND:

PA — PLANTING AREA, SEE LP SHEETS

CONSTRUCT, SEE LM-07 FOR LANDSCAPE MATERIAL SCHEDULE

(#) — LANDSCAPE MATERIAL KEYNOTES

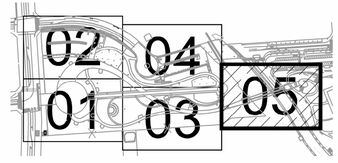
1LM-05 / LM-05 LANDSCAPE MATERIAL PLAN - AREA 05

SCALE: 1" = 20'

N

20' 0' 20' 40'

SCALE: 1"=20'



KEY MAP

SCALE: 1" = 400'

N

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			NOT FOR CONSTRUCTION		

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DRAWN: R. HAYASHI
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DESIGNED: R. HAYASHI
ENGINEER / ARCHITECT

CHIEF OF DESIGN

ASSISTANT CHIEF HARBOR ENGINEER

CHIEF HARBOR ENGINEER DATE

AVALON PROMENADE GATEWAY

LANDSCAPE MATERIAL PLAN - AREA 05

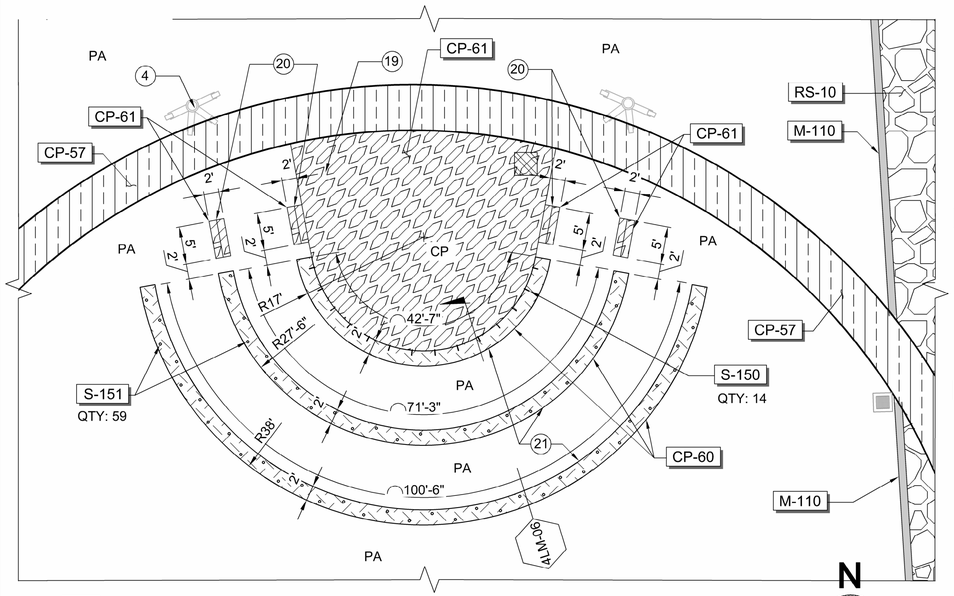
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DRAWING NUMBER 1-3472

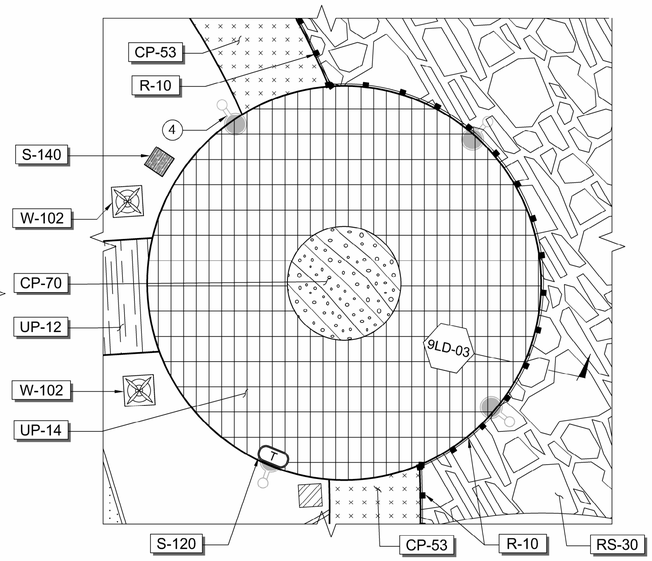
SHEET NUMBER LM-05

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DATE: Jan 13, 2025 9:53am



1LM-06 ENLARGEMENT MATERIAL PLAN AT AMPHITHEATER
1LM-01, 1LD-17 SCALE: 1" = 10'



2LM-06 ENLARGEMENT MATERIAL PLAN AT OVERLOOK
LM-03 THRU LM-05, 4LD-10 SCALE: 1" = 10'

LANDSCAPE MATERIAL KEYNOTES		
KEYNOTE	DESCRIPTION	DETAIL / SHEETS / DWG
2	DWP VAULT ACCESS HOLE	EL SHEETS
4	SITE LIGHTING	LD-13, EL SHEETS
10	CONCRETE CURB	5LD-02
13	8" HT CONCRETE CURB	5LD-02
19	AMPHITHEATER STAGING AREA	1LD-17
20	CONC STEPS ON EA SIDE	1LD-07
21	24" WIDE CONC SEATING, TYP @ 3 LOCATIONS	1LD-17
27	PAINTED PATTERN ON CONCRETE	4LD-32
28	THICKENED EDGE AT CONCRETE PAVING	2LD-01
30	CONCRETE CURB RAMP	-

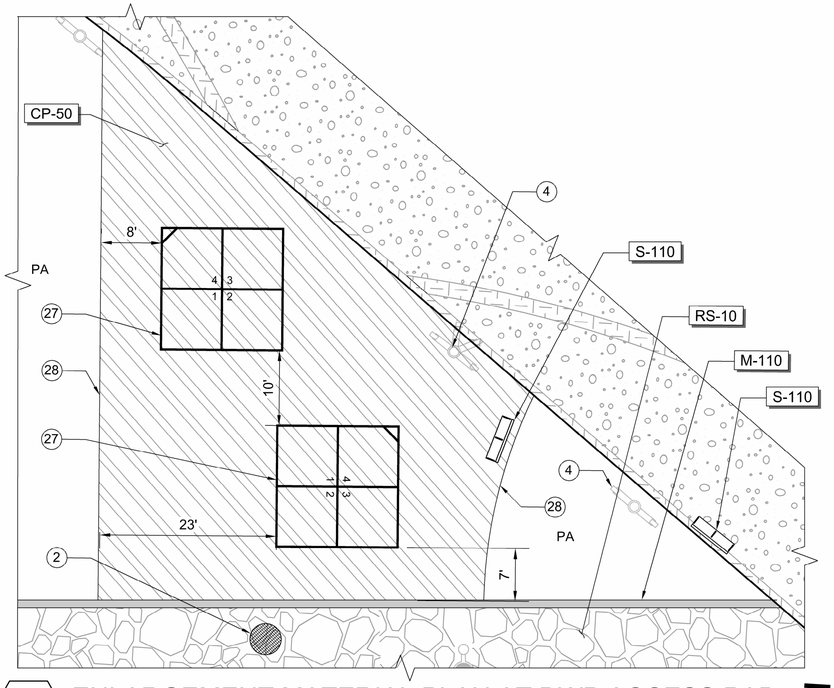
LEGEND:

PA — PLANTING AREA, SEE LP SHEETS

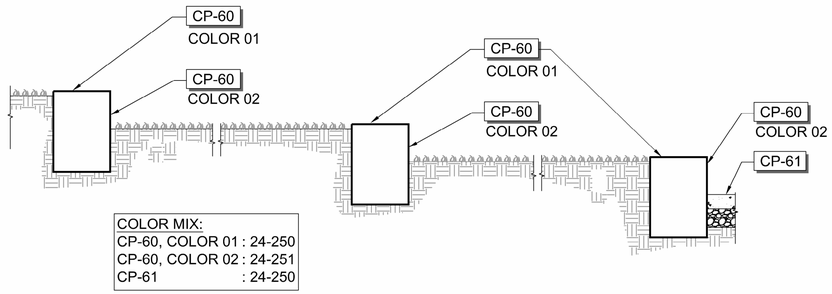
CONSTRUCT, SEE LM-07 FOR LANDSCAPE MATERIAL SCHEDULE

(#) — LANDSCAPE MATERIAL KEYNOTES

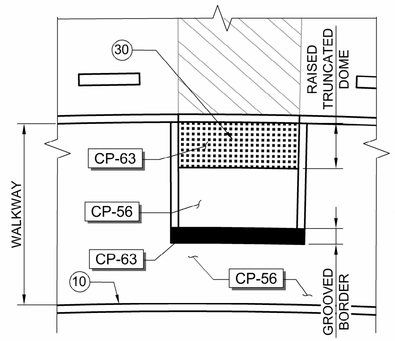
NOTES:
A. PROVIDE SHOP DRAWINGS FOR PROPOSED JOINT LOCATIONS FOR ENGINEER'S REVIEW AND APPROVAL
B. SEE SHEET LD-17 FOR AMPHITHEATER ENLARGEMENT CONSTRUCTION PLAN AND DETAILS



3LM-06 ENLARGEMENT MATERIAL PLAN AT DWP ACCESS PAD
1LM-02, 1LM-03, 1LM-04, 1LD-01, 1LD-02, 4LD-32 SCALE: 1" = 10'

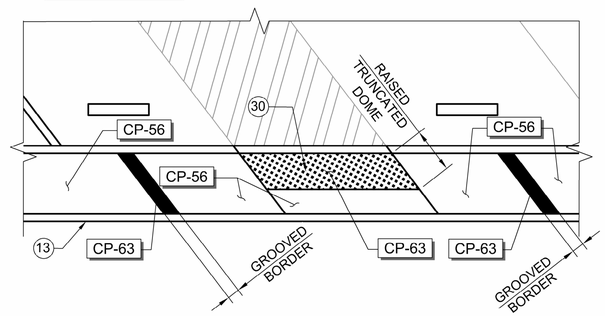


4LM-06, 1LM-06 AMPHITHEATER SEATING SECTION
SCALE: NTS



NOTES:
A. RAISED TRUNCATED DOME AND GROOVED BORDER PER STANDARD PLAN NO. S-442-6

NORTH PARKING LOT



SOUTH PARKING LOT

5LM-06, 1LM-02, 1LM-04 ENLARGED CURB RAMP MATERIAL PLAN, TYP
SCALE: NTS

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ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

AVALON PROMENADE GATEWAY

LANDSCAPE MATERIAL ENLARGEMENT

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472
SHEET NUMBER LM-06

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DATE: Jan 13, 2025 9:53am

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LANDSCAPE MATERIAL SCHEDULE

LEGEND	CALLOUT	DESCRIPTION	QTY	DETAIL	MFR	MODEL	COLOR	NOTES
ASPHALT CONCRETE								
	AC-10	ASPHALT CONCRETE	56,036 SF	4LD-02	-	-	-	-
CAST-IN-PLACE CONCRETE								
	CP-50	CIP CONC PAVEMENT - TYPE 1	17,493 SF	1LD-01	SHAW & SONS	CRAFTSMEN SPECIFICATIONS	24-380	VEHICULAR TRAFFIC
	CP-51	CIP CONC PAVEMENT - TYPE 2	8,306 SF	1LD-01	SHAW & SONS	CRAFTSMEN SPECIFICATIONS	24-186	VEHICULAR TRAFFIC
	CP-52	CIP CONC PAVEMENT - TYPE 3	1,625 SF	1LD-01	SHAW & SONS	CRAFTSMEN SPECIFICATIONS	24-161	VEHICULAR TRAFFIC
	CP-53	CIP CONC PAVEMENT - TYPE 4	13,767 SF	1LD-01	SHAW & SONS	CRAFTSMEN SPECIFICATIONS	24-382	VEHICULAR TRAFFIC
	CP-54	CIP CONC PAVEMENT - TYPE 5	27,469 SF	1LD-01	SHAW & SONS	CRAFTSMEN SPECIFICATIONS	24-160	VEHICULAR TRAFFIC
	CP-56	CIP CONC PAVEMENT - TYPE 6	3,749 SF	1LD-01	SHAW & SONS	CRAFTSMEN SPECIFICATIONS	24-186	PEDESTRIAN TRAFFIC
	CP-57	CIP CONC PAVEMENT - TYPE 7	4,865 SF	1LD-01	SHAW & SONS	CRAFTSMEN SPECIFICATIONS	21-123	VEHICULAR TRAFFIC
	CP-60	CIP CONC SEATING	444 SF	1LM-06, 1LD-17, 5LD-17	SHAW & SONS	CRAFTSMEN SPECIFICATIONS	24-250, 24-251	-
	CP-61	CIP CONC PAVEMENT - STAGE AND STEPS	836 SF	1LD-01	SHAW & SONS	CRAFTSMEN SPECIFICATIONS	24-250	VEHICULAR TRAFFIC
	CP-62	CIP CONC - STAIRS	884 SF	LD-04, LD-05	SHAW & SONS	CRAFTSMEN SPECIFICATIONS	24-186	
	CP-63	CIP CONC - CURB RAMP	151 SF	1LD-01	SHAW & SONS	CRAFTSMEN SPECIFICATIONS	24-188	TRUNCATED DOME / GROOVE TROWEL
	CP-70	CIP CONC PAVEMENT - COMPASS	177 SF	4LD-10	SHAW & SONS	CRAFTSMEN SPECIFICATIONS	SEE DETAIL	VEHICULAR TRAFFIC
	CP-80	CIP CONCRETE PAVEMENT - GRAY	2,044 SF	1LD-01	-	-	-	BROOM FINISH, MEDIUM PEDESTRIAN TRAFFIC
	CP-81	CIP INTEGRALLY COLORED CONC PAVEMENT	1,363 SF	1LD-01	-	-	MATCH TO ADJ CONC	
DECOMPOSED GRANITE								
	DG-30	DECOMPOSED GRANITE	12,681 SF	3LD-01, 4LD-01, 4LD-03	DECORATIVE STONE SOLUTIONS	DECOMPOSED GRANITE	DESERT GOLD	STABLIZED

GATE

LEGEND	CALLOUT	DESCRIPTION	QTY	DETAIL	SIZE	MFR	MTRL	
	G-10	PARK GATE	2	7LD-11	30`W X 4`H	CUSTOM	GALV STEEL	

LANDSCAPE MATERIAL

LEGEND	CALLOUT	DESCRIPTION	QTY	DETAIL	MFR	MODEL	COLOR/FINISH	NOTES
	M-110	CONCRETE MOWSTRIP	6,301 LF	1LD-03	SHAW & SONS	CRAFTSMEN SPECIFICATIONS	24-186	-
SAFETY SURFACE								
	PG-10	POURED-IN-PLACE SURFACING - TYPE 1	17,784 SF	1LD-18	SPECTRATURF	SPECTRAPOUR SUPREME	SEE DRAWINGS AND SPEC	SAFETY SURFACE ON CONC SUB-SLAB
	PG-11	POURED-IN-PLACE SURFACING - TYPE 2	2,039 SF	7LD-18	SPECTRATURF	SPECTRAPOUR SUPREME	SEE DRAWINGS AND SPEC	SAFEY SURFACE ON CMB

GUARDRAIL

LEGEND	CALLOUT	DESCRIPTION	QTY	DETAIL	MODEL	MATERIAL	GRADE	
	R-10	GUARDRAIL	226 LF	1LD-14	CUSTOM	STAINLESS STEEL	316	

LANDSCAPE MATERIAL SCHEDULE (CONTINUE)

ROCKSCAPE

LEGEND	CALLOUT	DESCRIPTION	QTY	DETAIL	MFR	MODEL	COLOR	NOTES
	RS-10	ROCKSCAPE - TYPE A	12,581 SF	2LD-03	SOUTHWEST BOULDER AND STONE	CRUSHED ROCK AND GRAVEL	BAJA CRESTA RUBBLE	SIZE: 4"-8"
	RS-20	ROCKSCAPE - TYPE B	7,088 SF	3LD-03	SOUTHWEST BOULDER AND STONE	BOULDERS	BAJA CRESTA RUBBLE	SIZE: 12"-18"
	RS-30	ROCKSCAPE - TYPE C	6,453 SF	9LD-03	SOUTHWEST BOULDER AND STONE	CRUSHED ROCK AND GRAVEL	BAJA CRESTA RUBBLE	MIX OF 4"-8" AND 12"-18"

SITE FURNISHINGS

LEGEND	CALLOUT	DESCRIPTION	QTY	DETAIL	MFR	MODEL	MTRL/ COLOR/ FINISH	NOTES
	S-100	PICNIC TABLE - TYPE A	23	1LD-12	DUMOR	525-80I	IPE WOOD / STL	-
	S-102	PICNIC TABLE - TYPE B	7	2LD-12	DUMOR	525-884I	IPE WOOD / STL	ACCESSIBLE SEATING
	S-103	PICNIC TABLE - TYPE C	9	3LD-12	DUMOR	76-24I	IPE WOOD / STL	-
	S-104	PICNIC TABLE - TYPE D	4	4LD-12	DUMOR	76-23I	IPE WOOD / STL	ACCESSIBLE SEATING
	S-110	BENCH - TYPE A	32	5LD-12	DUMOR	520-60I	IPE WOOD / STL	-
	S-111	BENCH - TYPE B	18	6LD-12	DUMOR	104-60	STEEL / BROZE COLOR	-
	S-112	BENCH - TYPE C	1	5LD-12	DUMOR	521-60-005I	IPE WOOD / STL	-
T	S-120	TRASH RECEPTACLE	30	2LD-11	DUMOR	435-64SH	STL / SUDAN	-
	S-122	BBQ GRILL	7	8LD-12	DUMOR	24-00	HEAT RESISTANT BLACK ENAMEL	-
	S-123	BICYCLE RACK	10	1LD-11	DUMOR	292-SS/S-2	TEXTURED SILVER	
	S-130	DOG BAG STATION	5	3LD-11	MUTT MITT	1001	DARK GREEN	-
	S-131	CONCRETE HOT COAL RECEPTACLE	2	6LD-11	WAUSAU TILE SITE FURNISHINGS	TF1131	CONC / EXPOSED AGGREGATE FINISH	53 GALLON CAPACITY
	S-132	RETRACTABLE BOLLARD	14	5LD-11	RELIANCE FOUNDRY	R-8472	316 SS / #6 SATIN	WHITE REFLECTIVE STRIPE
	S-140	DEDICATION BLOCK WITH PLAQUE	1	5LD-32	CUSTOM	-	CONCRETE/BRONZE	-
	S-150	SKATE DETERRENT - TYPE A	14	6LD-17	SKATE STOPPERS	GR05SS	316 STAINLESS STEEL	
	S-151	SKATE DETERRENT - TYPE B	59	7LD-17	GRIND TO A HALT	HEMISPHERE GRINDER MINDER	STAINLESS STEEL	
	S-160	DRINKING FOUNTAIN	7	6LD-03	ELKAY	LK4420DB & LK4471LHB	316 SS / EVERGREEN	W/ PET STATION AND LOCKING HOSE BIBB
	S-161	DRY WELL	7	7LD-03	-		-	-
	S-200	SHADE STRUCTURE - TYPE A	4	1LD-32	LANDSCAPE STRUCTURES - SKYWAYS	267671H	STEEL/FABRIC	PICNIC AREA
	S-201	SHADE STRUCTURE - TYPE B	15	2LD-32	LANDSCAPE STRUCTURES - SKYWAYS	237675H	STEEL/FABRIC	PICNIC AREA
	S-202	SHADE STRUCTURE - TYPE C	8	3LD-32	LANDSCAPE STRUCTURES - SKYWAYS	267726H	STEEL/FABRIC	PLAYGROUNDS

CONCRETE UNIT PAVERS

	UP-10	CONCRETE UNIT PAVERS - TYPE 1 - NORTH	4,655 SF	6LD-01, 1LD-08	STEP STONE, INC	SEE DETAILS	NARROW MODULAR PAVERS	
	UP-11	CONCRETE UNIT PAVERS - TYPE 2 - EAST	3,845 SF	6LD-01, 2LD-08	STEP STONE, INC	SEE DETAILS	NARROW MODULAR PAVERS	
	UP-12	CONCRETE UNIT PAVERS - TYPE 3 - HISTORICAL	9,686 SF	6LD-01, 3LD-09	STEP STONE, INC	SEE DETAILS	NARROW MODULAR PAVERS	
	UP-14	CONCRETE UNIT PAVERS - TYPE 5 - OVERLOOK	1,947 SF	6LD-01, 2LD-10	STEP STONE, INC	SEE DETAILS	NARROW MODULAR PAVERS	

HISTORIAL MOMUMENT

LEGEND	CALLOUT	DESCRIPTION	QTY	DETAIL	NOTES			
	W-101	RELOCATED HISTORICAL URN	1	SEE S SHEETS	PROVIDED BY POLA			
	W-102	RELOCATED HISTORICAL ANGEL LIGHT	4	SEE S SHEETS	PROVIDED BY POLA			

1LM-07 LANDSCAPE MATERIAL SCHEDULE
LM-00 THRU LM-06 SCALE: NTS

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D
			NOT FOR CONSTRUCTION		

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D
			10% DESIGN REVIEW MON DAY, YEAR		

SCALE: AS SHOWN
DRAWN: R. HAYASHI
CHECKED: C. HONEYBONE / C. WOOSTER
DESIGNED: R. HAYASHI
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

AVALON PROMENADE GATEWAY

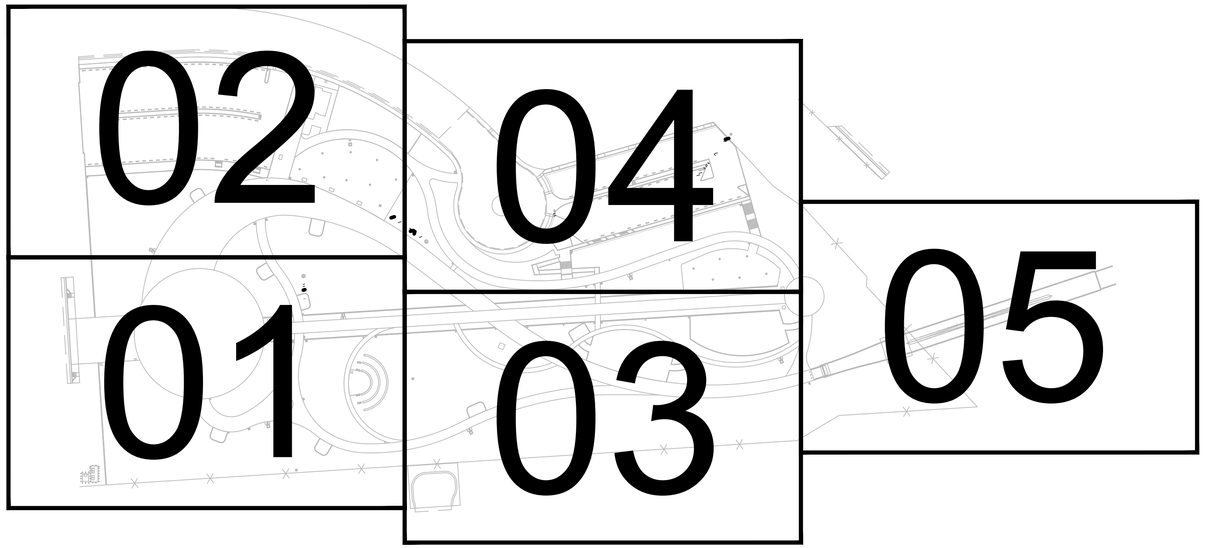
LANDSCAPE MATERIAL SCHEDULE

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472
SHEET NUMBER LM-07

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DATE: Jan 13, 2025 9:53am

POLAPRO1_03/2022_BWD



LEGEND OF CONSTRUCTION NOTES

COORDINATE	
CONSTRUCT	REMODEL EXISTING
EXISTING	REMOVE AND CONSTRUCT
REMOVE	RELOCATE
NOT IN CONTRACT	ABANDON

NO.	CONSTRUCTION ITEM	DETAIL NO.
5	CONCRETE LONGITUDINAL GUTTER	
77	JUNCTION STRUCTURE (JS)	
78	ALLEY GRATING BASIN (AGB)	
79	REINFORCED CONCRETE PIPE (RCP)	
85	STORM DRAIN MAINTENANCE HOLE	
86	WARPED GUTTER AT CATCH BASIN	
87	TRENCH DRAIN	
88	FRENCH DRAIN	
89	CATCH BASIN	
90	SOLID GRATE CATCH BASIN	
92	SIDEWALK OUTLET STRUCTURE	
95	REINFORCED CONCRETE PIPE-LINED	
97	CONCRETE COLLAR	
98	MONOLITHIC CONNECTION	
99	SIDE OPENING CATCH BASIN	
100	HDPE PIPE	
101	UNDERDRAIN	
102	RCP TO BRICK CONNECTION	
103	SLOT DRAIN	
104	AREA DRAIN	
105	CLEANOUT	
106	STORM DRAIN FITTING	
107	CHECK VALVE	
109	STORMWATER PLANTER	
111	VEGETATED SWALE	
112	CONCRETE TRENCH	
114	INFILTRATION BASIN	

LEGEND:

- NEW STORM DRAIN
- EXISTING STORM DRAIN
- FRENCH DRAIN
- TRENCH DRAIN
- SLOT DRAIN
- FLOW THROUGH PLANTER
- CLEANOUT
- STORM DRAIN MAINTENANCE HOLE
- AREA DRAIN
- CATCH BASIN

STORM DRAIN ABBREVIATIONS:

AD	AREA DRAIN
CB	CATCH BASIN
CIP	CAST IRON PIPE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
DIP	DUCTILE IRON PIPE
DWV	DRAIN, WASTE, AND VENT
EX	EXISTING
FL	FLOW LINE
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
LF	LINEAR FOOT
MH	MAINTENANCE HOLE
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
S	SLOPE
SD	STORM DRAIN
SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
TG	TOP OF GRATE
TYP	TYPICAL

1SD-00 / SD-00 STORM DRAIN SITE PLAN

SCALE: 1" = 100'

N

100' 0' 100' 200'

SCALE: 1" = 100'

GENERAL STORM DRAIN NOTES:

1. ALL ELEVATIONS ARE REFERENCED TO MEAN LOWER LOW WATER (MLLW) AS ELEVATION 0.00.
2. SAFE CONSTRUCTION EXCAVATION SLOPES AND SHORING ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD COMPLY WITH ALL CAL OSHA AND OTHER APPLICABLE SAFETY REGULATIONS. SOIL CONDITIONS AND COMMENTS ON SHORING ARE CONTAINED IN THE SOILS REPORT OF THE SITE WHICH IS AVAILABLE FOR REVIEW IN THE CHIEF HARBOR ENGINEER'S OFFICE.
3. CONTRACTOR SHALL COMPLETE ALL WORK CALLED FOR ON THE PLANS, UNLESS OTHERWISE INDICATED OR IDENTIFIED AS NOT IN CONTRACT (NIC). COORDINATE WORK OUTSIDE OF THE PROJECT LIMITS OR IN BLOCKED OUT AREAS WITH OTHER CONTRACTORS AND/OR TERMINAL OPERATORS.
4. ALL COORDINATES ARE GIVEN IN NAD83, ZONE 5, CALIFORNIA STATE PLANE COORDINATES.
5. REINFORCED CONCRETE PIPE SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.40. PER ASTM C497 TEST METHOD A, RCP SHALL HAVE A MAXIMUM ABSORPTION OF 6%.
6. ALL RCP SHALL HAVE A MINIMUM INSIDE AND OUTSIDE CONCRETE COVER OF 1-1/2 INCHES.
7. JOINTS SHALL BE RUBBER-GASKETED. MAXIMUM JOINT GAP SHALL BE PER MANUFACTURER'S SPECIFICATIONS.
8. PIPE BEDDING SHALL CONFORM TO CITY OF LOS ANGELES, DEPARTMENT OF PUBLIC WORKS, BUREAU OF ENGINEERING STANDARD PLAN S-251-1.
9. GROUNDWATER TABLE VARIES ON THE PROJECT SITE BASED ON SEASONAL AND TIDAL CONDITIONS. THE DESIGN GROUNDWATER ELEVATION IS 4.4 FT, MLLW.
10. ALL PVC PLASTIC PIPE FOR STORM DRAINS SHALL BE SCHEDULE 80 DWV WITH SOLVENT WELD JOINTS IN CONFORMANCE WITH RS SUBSECTION 207-17.
11. INDICATE WITH PERMANENT PAINT ON THE INSIDE SPRINGLINE OF ONE END OF EACH SECTION OF RCP THE DATE OF INSTALLATION.
12. LOCATIONS OF EXISTING SUBSTRUCTURES ARE APPROXIMATE ONLY, THEREFORE EXCAVATION SHALL BE EXECUTED WITH EXTRA CARE TO PREVENT DAMAGE TO EXISTING INSTALLATIONS. THE CONTRACTOR SHALL POTHOLE, IN COORDINATION WITH CORRESPONDING OWNERS, FOR ANY EXISTING SUBSTRUCTURE INSTALLATIONS TO DETERMINE THEIR EXACT LOCATIONS AND ELEVATIONS PRIOR TO EXCAVATION.
13. ANY DISCREPANCY BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION BY THE CONTRACTOR.
14. INSTALL GREEN DETECTION TAPE ABOVE ALL INSTALLED STORM DRAIN PIPE PER SPECIFICATIONS.
15. WHERE PHASING LEAVES UNFINISHED STORM DRAIN LINES OR TRENCH DRAINS, THE CONTRACTOR SHALL PROVIDE SAND BAGS AT THE END OF ALL PIPES AND TRENCH DRAINS FOR A TEMPORARY CAP AND EROSION CONTROL BETWEEN PHASES.
16. JOIN LOCATIONS ON PLANS ARE BASED ON AVAILABLE RECORDS. CONTRACTOR SHALL DETERMINE "AS-BUILT" CONDITIONS BY EXPOSING JOIN LOCATION. PIPE LAYOUT SHALL BE ADJUSTED TO ACCOMMODATE EXISTING CONDITIONS.
17. IF PIPE JOINT IS DAMAGED DURING DEMOLITION ACTIVITY, CONTRACTOR SHALL REMOVE ADDITIONAL PIPE UNTIL AN UNDAMAGED JOINT IS OBTAINED.
18. STORM DRAIN INLETS, CATCH BASINS, AND MAINTENANCE HOLES SHALL BE ADJUSTED TO BE FLUSH WITH FINISHED SURFACE.
19. CONTRACTOR SHALL INSTALL STENCILS AT ALL INLETS & CATCH BASINS PER APPROVED CITY OF LOS ANGELES STD STENCIL.
20. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE MEANS AND METHODS TO INSTALL STORM DRAINS AND APPURTENANT DRAINAGE SYSTEMS IN THE WET. CONTRACTOR SHALL DEVELOP AND SUBMIT WORKING DRAWINGS SIGNED AND STAMPED BY A REGISTERED ENGINEER IN CALIFORNIA SHOWING THE MEANS AND METHODS OF CONSTRUCTING STORM DRAIN SYSTEMS IN THE WET. SEE SPECIFICATION SECTION FOR DEWATERING.
21. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) DIG ALERT AT 1-800-227-2600 OR 811 TO IDENTIFY THE LOCATIONS OF UNDERGROUND UTILITIES THREE (3) DAYS PRIOR TO THE START OF WORK.
22. CONTRACTOR SHALL REPLACE EXISTING PAVEMENT SECTION WHERE PROPOSED STORM DRAIN SYSTEM JOINS EXISTING STORM DRAIN SYSTEM OUTSIDE PROJECT LIMITS.
23. HDPE PIPE TO CONCRETE STRUCTURE CONNECTIONS SHALL BE DONE USING FLEX RESTRAINT FITTINGS BY CENTRAL PLASTICS OR APPROVED EQUAL.
24. PERFORATED HDPE PIPE SHALL CONFORM TO AASHTO PERFORATIONS CLASS I AND HAVE A MINIMUM DR11.
25. BREAKING INTO EXISTING STORM DRAIN MAINTENANCE HOLES SHALL BE DONE PER APWA STD PLAN 208-2.
26. REINFORCED CONCRETE PIPE TO CATCH BASIN CONNECTIONS SHALL BE DONE PER APWA STD PLAN 308-2.
27. WITH RESPECT TO VERTICAL INTERFACES DESIGNERS ANTICIPATE CONTRACTOR TO BUILD BOTH SIDES IN EQUAL LIFTS. IF CONTRACTOR CHOOSES A DIFFERENT METHOD ALL COSTS INCURRED DUE TO THIS METHOD CHOICE SHALL BE BURDENED BY THE CONTRACTOR.

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: N. JOHNSON
CHECKED: A. HUNT
DESIGNED: N. JOHNSON
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

AVALON PROMENADE GATEWAY

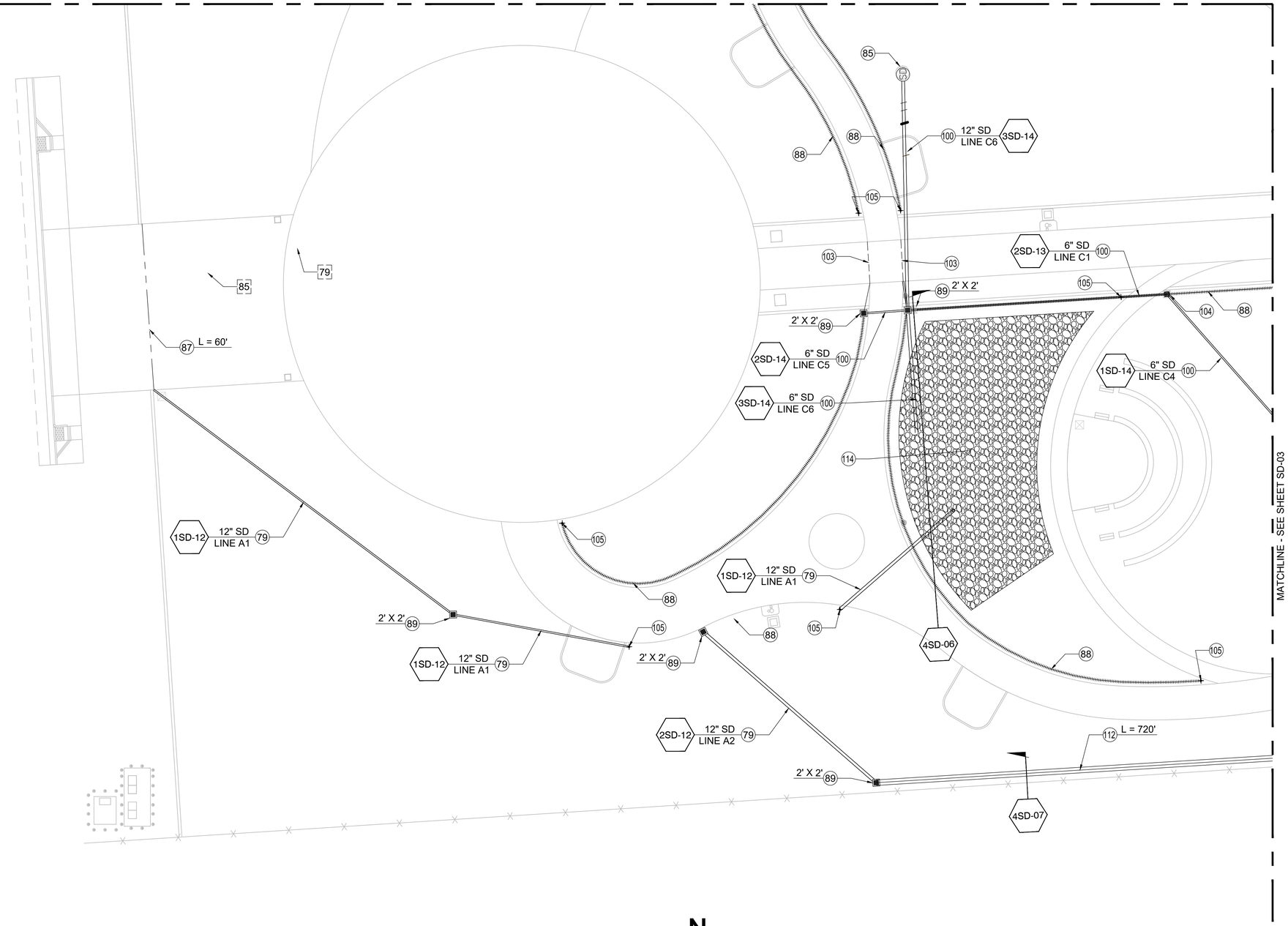
STORM DRAIN SITE PLAN AND NOTES

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

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SHEET NUMBER SD-00

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MATCHLINE - SEE SHEET SD-02



MATCHLINE - SEE SHEET SD-03

LEGEND OF CONSTRUCTION NOTES

- COORDINATE
- CONSTRUCT
- EXISTING
- REMOVE
- NOT IN CONTRACT
- REMODEL EXISTING
- REMOVE AND CONSTRUCT
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- ABANDON

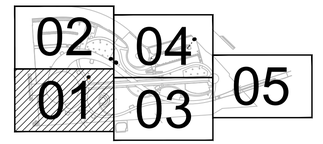
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5	CONCRETE LONGITUDINAL GUTTER	
77	JUNCTION STRUCTURE (JS)	
78	ALLEY GRATING BASIN (AGB)	
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111	VEGETATED SWALE	
112	CONCRETE TRENCH	
114	INFILTRATION BASIN	

1SD-01 / SD-01 STORM DRAIN PLAN - AREA 1
SCALE: 1" = 20'

N

20' 0' 20' 40'
SCALE: 1"=20'

KEY MAP
SCALE: 1" = 400'



N

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: N. JOHNSON
CHECKED: A. HUNT
DESIGNED: N. JOHNSON
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

AVALON PROMENADE GATEWAY

STORM DRAIN PLAN - AREA 1

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

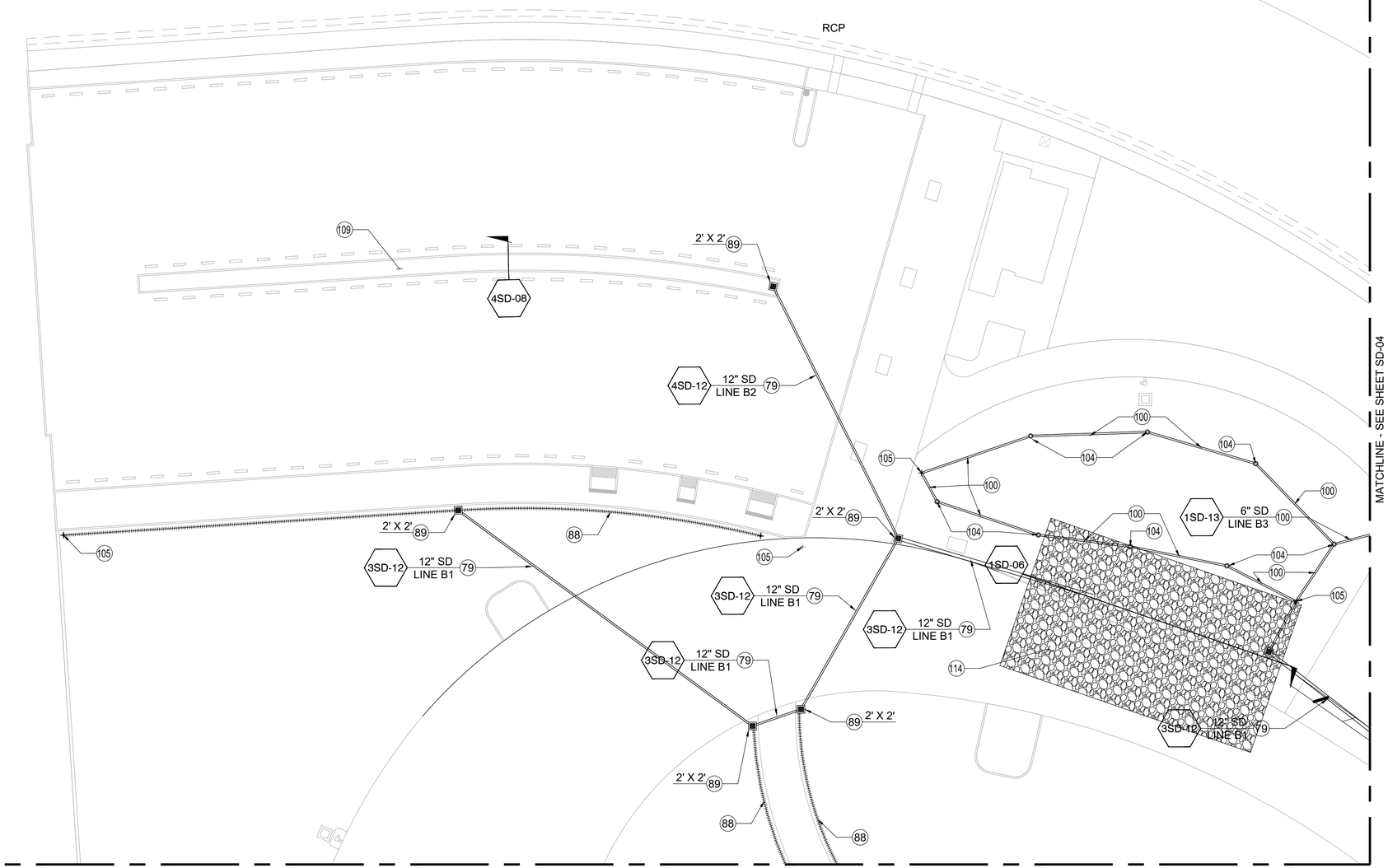
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BROAD AVE

BROAD AVENUE



HARRY BRIDGES BLVD

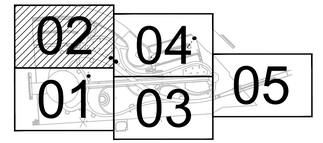
MATCHLINE - SEE SHEET SD-01

MATCHLINE - SEE SHEET SD-04

LEGEND OF CONSTRUCTION NOTES

- COORDINATE
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- EXISTING
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109	STORMWATER PLANTER	
111	VEGETATED SWALE	
112	CONCRETE TRENCH	
114	INFILTRATION BASIN	



KEY MAP
SCALE: 1" = 400'

N

1SD-02
SD-02
STORM DRAIN PLAN - AREA 2
SCALE: 1" = 20'

N

20' 0' 20' 40'
SCALE: 1"=20'

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: N. JOHNSON
CHECKED: A. HUNT
DESIGNED: N. JOHNSON
ENGINEER / ARCHITECT

CHIEF OF DESIGN

ASSISTANT CHIEF HARBOR ENGINEER

CHIEF HARBOR ENGINEER DATE

AVALON PROMENADE GATEWAY

STORM DRAIN PLAN - AREA 2

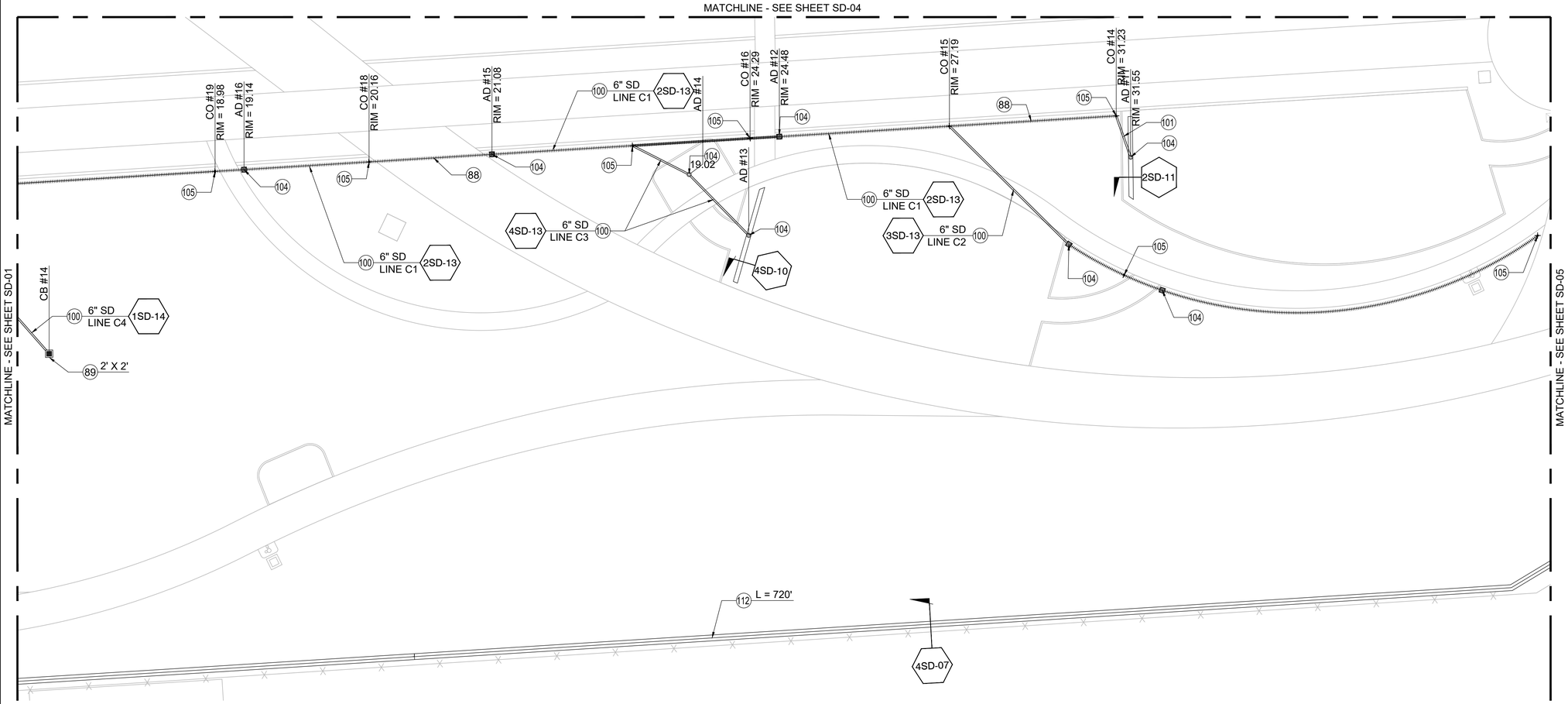
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472

SHEET NUMBER SD-02

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DATE: Nov 05, 2024 4:40pm

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1SD-03 / SD-03 STORM DRAIN PLAN - AREA 3

SCALE: 1" = 20'

N

20' 0' 20' 40'

SCALE: 1"=20'

LEGEND OF CONSTRUCTION NOTES

COORDINATE
CONSTRUCT
EXISTING
REMOVE
NOT IN CONTRACT
REMODEL EXISTING
REMOVE AND CONSTRUCT
RELOCATE
ABANDON

NO.	CONSTRUCTION ITEM	DETAIL NO.
5	CONCRETE LONGITUDINAL GUTTER	
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88	FRENCH DRAIN	
89	CATCH BASIN	

LEGEND OF CONSTRUCTION NOTES

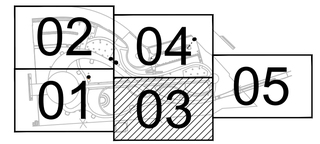
COORDINATE
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NO.	CONSTRUCTION ITEM	DETAIL NO.
90	SOLID GRATE CATCH BASIN	
92	SIDEWALK OUTLET STRUCTURE	
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NO.	CONSTRUCTION ITEM	DETAIL NO.
103	SLOT DRAIN	
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105	CLEANOUT	
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114	INFILTRATION BASIN	



KEY MAP
SCALE: 1" = 400'

N

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: N. JOHNSON
CHECKED: A. HUNT
DESIGNED: N. JOHNSON
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

AVALON PROMENADE GATEWAY

STORM DRAIN PLAN - AREA 3

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472
SHEET NUMBER SD-03

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LEGEND OF CONSTRUCTION NOTES

COORDINATE
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87	TRENCH DRAIN	
88	FRENCH DRAIN	
89	CATCH BASIN	

LEGEND OF CONSTRUCTION NOTES

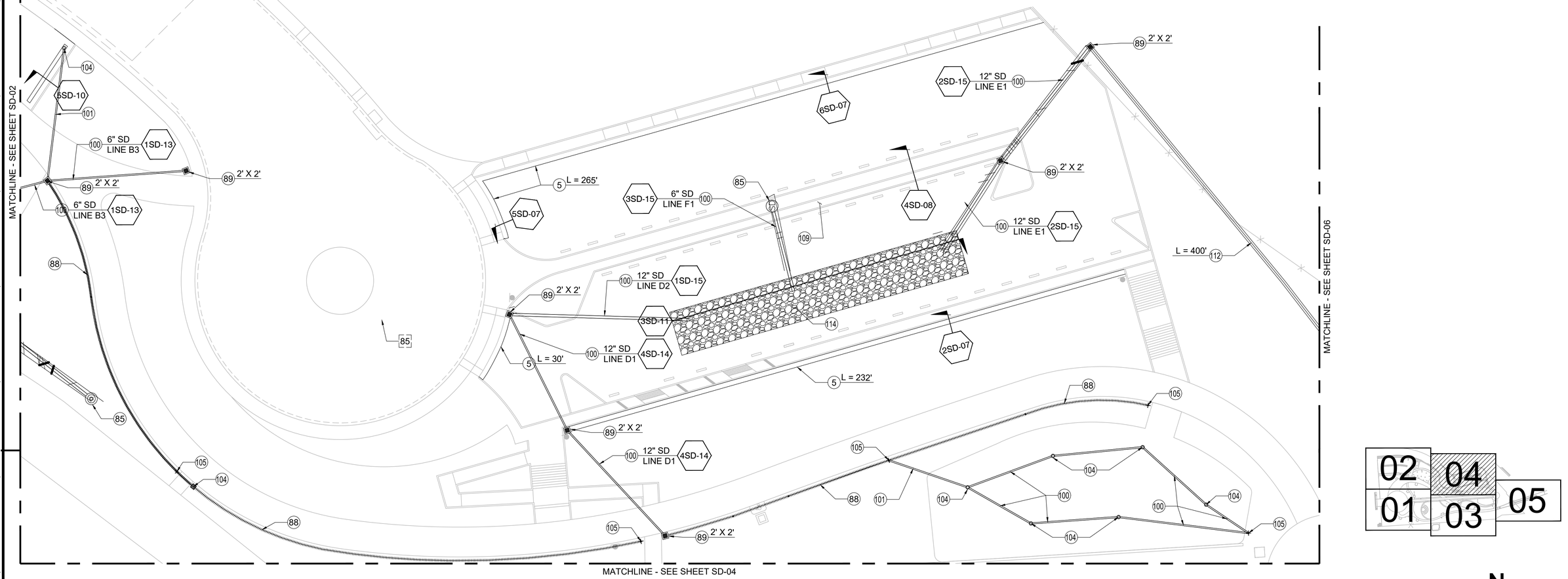
COORDINATE
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RELOCATE
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NO.	CONSTRUCTION ITEM	DETAIL NO.
90	SOLID GRATE CATCH BASIN	
92	SIDEWALK OUTLET STRUCTURE	
95	REINFORCED CONCRETE PIPE-LINED	
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99	SIDE OPENING CATCH BASIN	
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LEGEND OF CONSTRUCTION NOTES

COORDINATE
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REMOVE
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ABANDON

NO.	CONSTRUCTION ITEM	DETAIL NO.
103	SLOT DRAIN	
104	AREA DRAIN	
105	CLEANOUT	
106	STORM DRAIN FITTING	
107	CHECK VALVE	
109	STORMWATER PLANTER	
111	VEGETATED SWALE	
112	CONCRETE TRENCH	
114	INFILTRATION BASIN	



1SD-04 / SD-04 STORM DRAIN PLAN - AREA 4
SCALE: 1" = 20'

N

20' 0' 20' 40'
SCALE: 1"=20'

02 04 01 03 05

KEY MAP
SCALE: 1" = 400'

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NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: N. JOHNSON
CHECKED: A. HUNT
DESIGNED: N. JOHNSON
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

AVALON PROMENADE GATEWAY

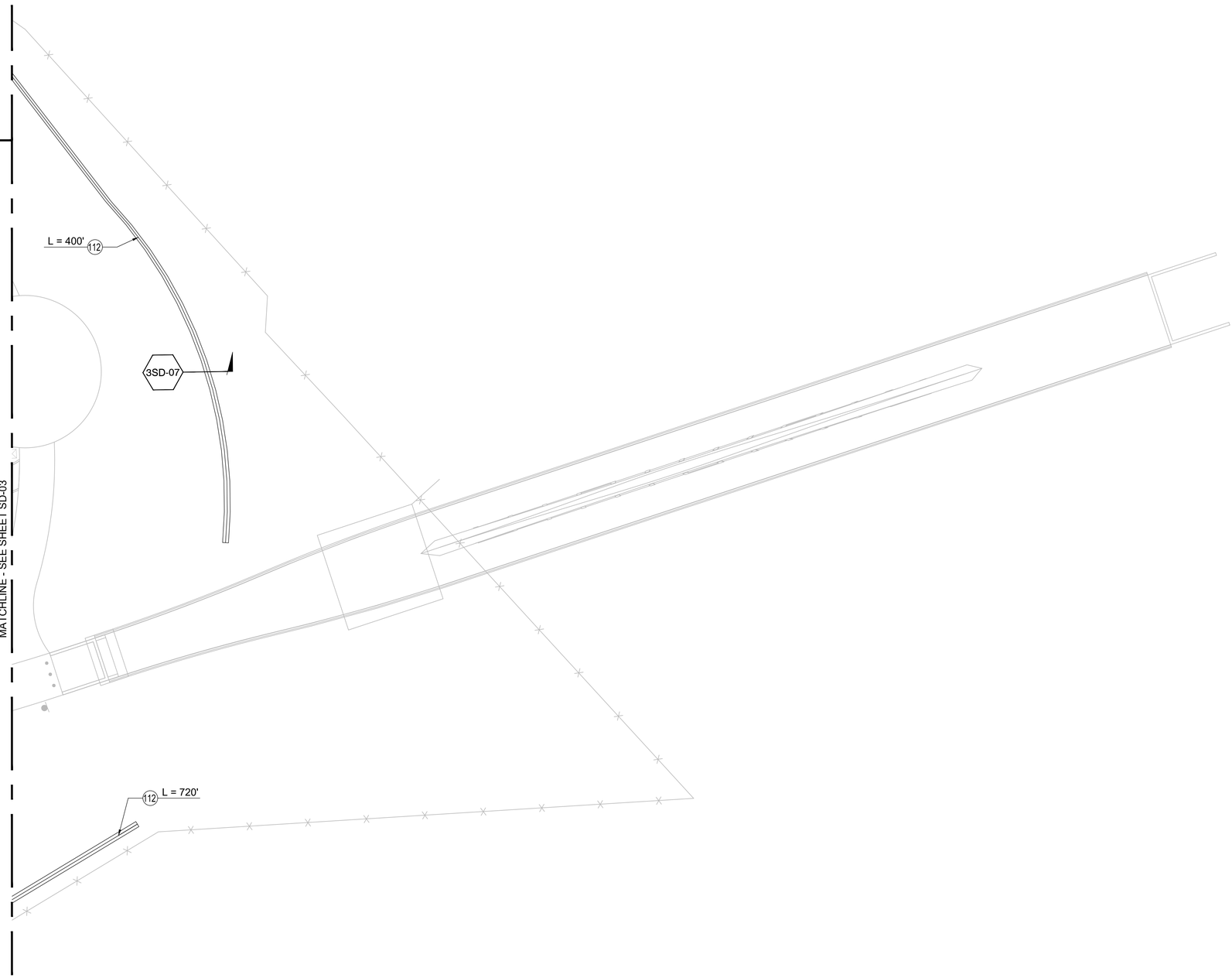
STORM DRAIN PLAN - AREA 4

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472
SHEET NUMBER SD-04

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DATE: Nov 05, 2024 - 4:41pm

POLAPRO1_03/2022_BWD



LEGEND OF CONSTRUCTION NOTES

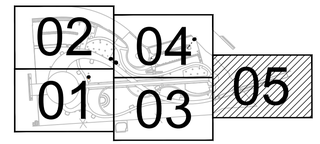
- COORDINATE
- CONSTRUCT
- EXISTING
- REMOVE
- NOT IN CONTRACT
- REMODEL EXISTING
- REMOVE AND CONSTRUCT
- RELOCATE
- ABANDON

NO.	CONSTRUCTION ITEM	DETAIL NO.
5	CONCRETE LONGITUDINAL GUTTER	
77	JUNCTION STRUCTURE (JS)	
78	ALLEY GRATING BASIN (AGB)	
79	REINFORCED CONCRETE PIPE (RCP)	
85	STORM DRAIN MAINTENANCE HOLE	
86	WARPED GUTTER AT CATCH BASIN	
87	TRENCH DRAIN	
88	FRENCH DRAIN	
89	CATCH BASIN	
90	SOLID GRATE CATCH BASIN	
92	SIDEWALK OUTLET STRUCTURE	
95	REINFORCED CONCRETE PIPE-LINED	
97	CONCRETE COLLAR	
98	MONOLITHIC CONNECTION	
99	SIDE OPENING CATCH BASIN	
100	HDPE PIPE	
101	UNDERDRAIN	
102	RCP TO BRICK CONNECTION	
103	SLOT DRAIN	
104	AREA DRAIN	
105	CLEANOUT	
106	STORM DRAIN FITTING	
107	CHECK VALVE	
109	STORMWATER PLANTER	
111	VEGETATED SWALE	
112	CONCRETE TRENCH	
114	INFILTRATION BASIN	

1SD-05 / SD-05 STORM DRAIN PLAN - AREA 5
SCALE: 1" = 20'

N

20' 0' 20' 40'
SCALE: 1"=20'



KEY MAP
SCALE: 1" = 400'

N

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: N. JOHNSON
CHECKED: A. HUNT
DESIGNED: N. JOHNSON
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER ____ DATE

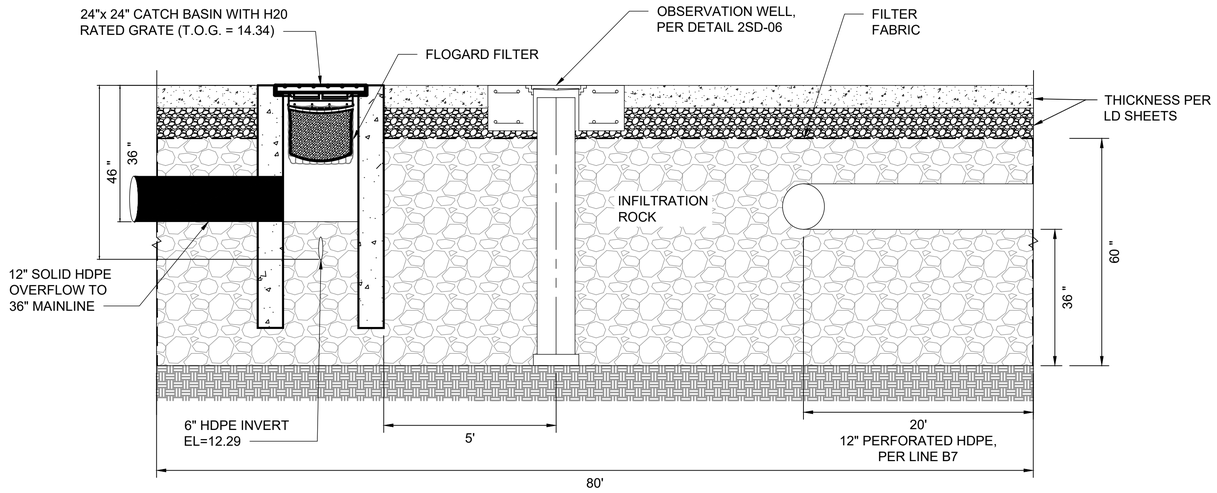
AVALON PROMENADE GATEWAY

STORM DRAIN PLAN - AREA 5

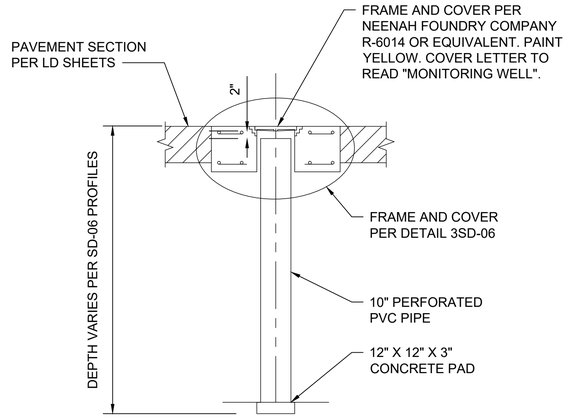
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472
SHEET NUMBER SD-05

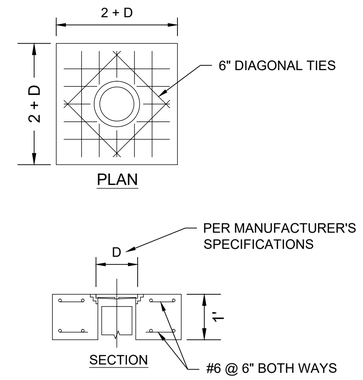
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PDLAPRDY_03/2022_BW'D



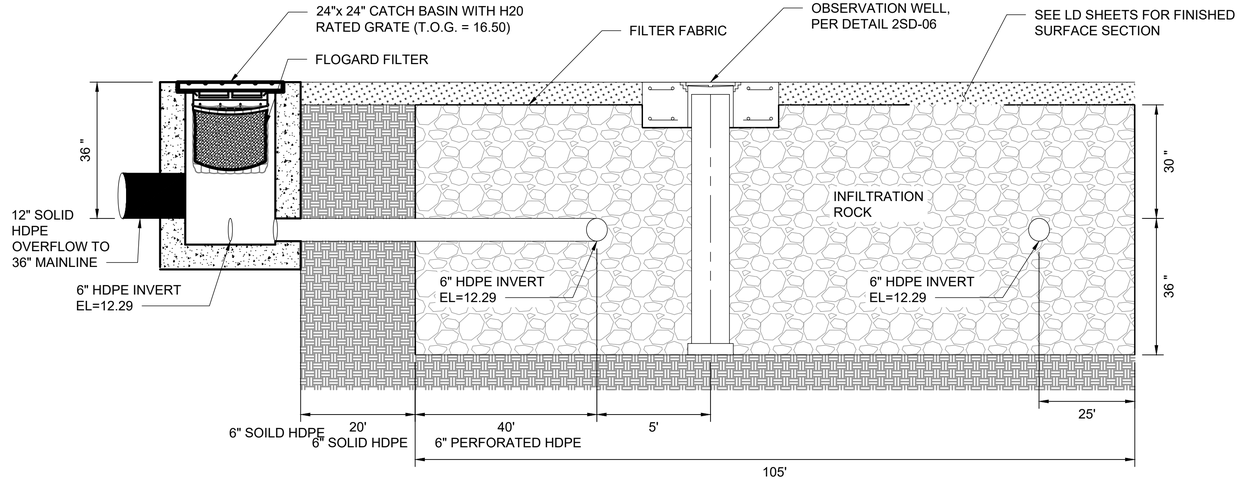
1SD-06 / 1SD-02 **INFILTRATION BASIN 1 PROFILE**
SCALE: 1" = 20'



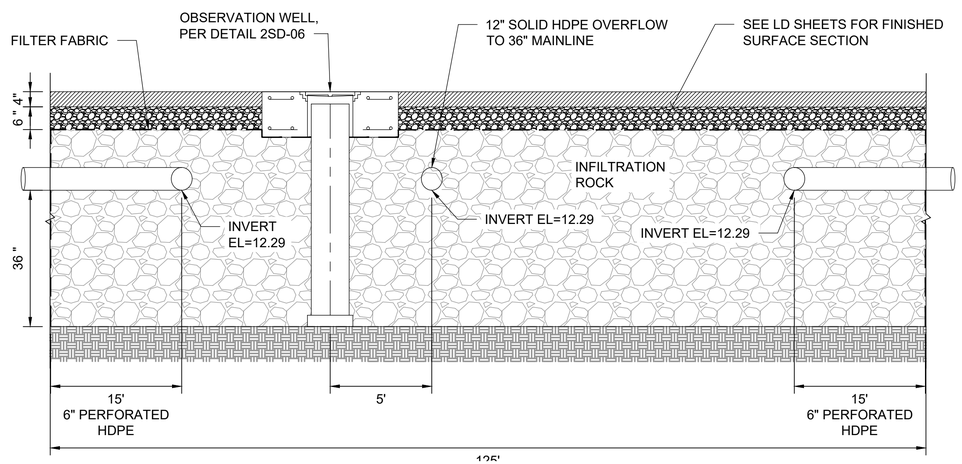
2SD-06 / 1SD-01 **OBSERVATION WELL**
SCALE: 1" = 20'



3SD-06 / 1SD-01 **OBSERVATION WELL FRAME AND COVER**
SCALE: 1" = 20'



4SD-06 / 1SD-01 **INFILTRATION BASIN 2 PROFILE**
SCALE: 1" = 20'



5SD-06 / 1SD-04 **INFILTRATION BASIN 3 PROFILE**
SCALE: 1" = 20'

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: N. JOHNSON
CHECKED: A. HUNT
DESIGNED: N. JOHNSON
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER ____ DATE

AVALON PROMENADE GATEWAY

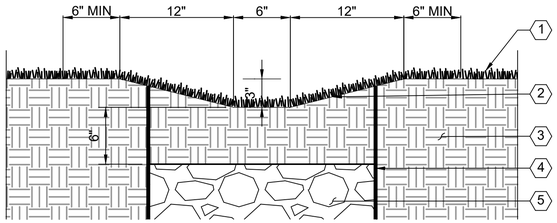
STORM DRAIN DETAILS

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3472
SHEET NUMBER: SD-06

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DATE: Nov 05, 2024 - 4:42pm

POLAPR01_SI(ISO)22_BWD



KEYNOTES (#):

1. LANDSCAPE PLANTING, PER LP SHEETS
2. SWALE WITH MINIMUM 3" DEPRESSION
3. COMPACTED SUBGRADE
4. GEOTEXTILE FABRIC, MIRAFI 140N
5. FRENCH DRAIN PER SD-8

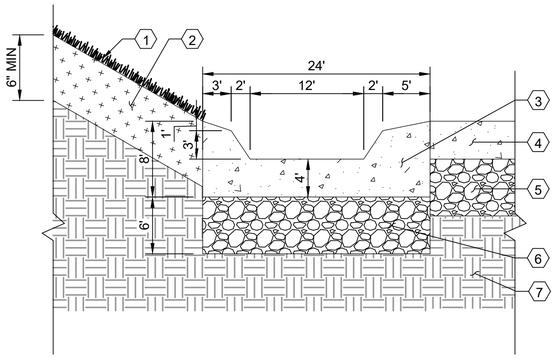
NOTES:

1. SWALE SHALL HAVE A 0.5% SLOPE, UNLESS NOTED OTHERWISE ON DRAWING.

1SD-07 VEGETATED SWALE

SD-04, SD-05

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



KEYNOTES (#):

1. LANDSCAPE PLANTING, PER LP SHEETS
2. PLANTING SOIL
3. CONCRETE GUTTER
4. 4" CONCRETE WALKWAY
5. 6" CRUSHED MISCELLANEOUS BASE
6. 6" CRUSHED MISCELLANEOUS BASE
7. COMPACTED SUBGRADE

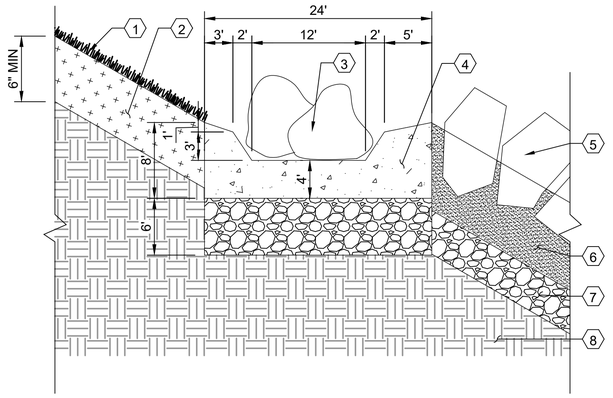
NOTES:

1. GUTTER SHALL HAVE A 0.5% SLOPE, UNLESS NOTED OTHERWISE ON DRAWING.

2SD-07 CONCRETE GUTTER TYPE 1

SD-04

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



KEYNOTES (#):

1. LANDSCAPE PLANTING, PER LP SHEETS
2. PLANTING SOIL
3. 8"-10" DIAMETER BOULDERS, SPACED EVERY 50 FEET
4. CONCRETE GUTTER
5. ROCKSCAPE, SIZE:12"-18", PER DETAIL 3LD-03
6. 8" MORTAR BED, PER DETAIL 3LD-03
7. 4" CRUSHED MISCELLANEOUS BASE
8. COMPACTED SUBGRADE

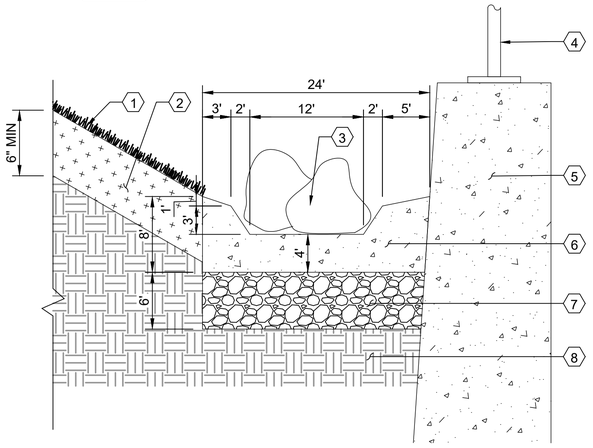
NOTES:

1. GUTTER SHALL HAVE A 0.5% SLOPE, UNLESS NOTED OTHERWISE ON DRAWING.

3SD-07 CONCRETE GUTTER TYPE 2

SD-05

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



KEYNOTES (#):

1. LANDSCAPE PLANTING, PER LP SHEETS
2. PLANTING SOIL
3. CONCRETE GUTTER
4. 4" CONCRETE WALKWAY
5. 6" CRUSHED MISCELLANEOUS BASE
6. 6" CRUSHED MISCELLANEOUS BASE
7. COMPACTED SUBGRADE
8. GEOTEXTILE FABRIC, MIRAFI 140N

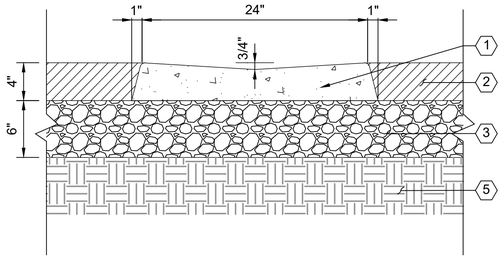
NOTES:

1. GUTTER SHALL HAVE A 0.5% SLOPE, UNLESS NOTED OTHERWISE ON DRAWING.

4SD-07 CONCRETE GUTTER TYPE 3

SD-01, SD-03, SD-05

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



KEYNOTES (#):

1. CONCRETE LONGITUDINAL GUTTER
2. ASPHALT CONCRETE PAVEMENT, PER DETAIL 4LD-02
3. CRUSHED MISCELLANEOUS BASE
4. COMPACTED SUBGRADE

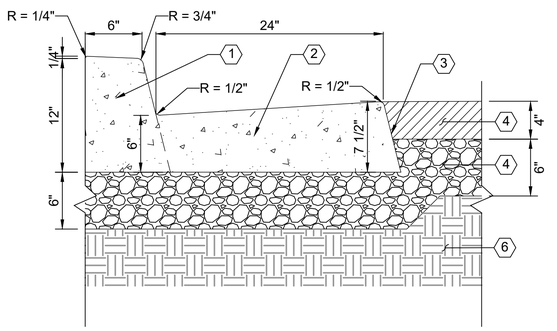
NOTES:

1. GUTTER SHALL HAVE A 0.5% SLOPE, UNLESS NOTED OTHERWISE ON DRAWING.

5SD-07 LONGITUDINAL GUTTER

SD-04

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



KEYNOTES (#):

1. CONCRETE CURB, PER DETAIL 5LD-02
2. TYPE C INTEGRAL CURB AND GUTTER
3. BATTER 3:12 CURB FACE
4. ASPHALT CONCRETE PAVEMENT, PER DETAIL 4LD-02
5. CRUSHED MISCELLANEOUS BASE, PER DETAIL 4LD-02
6. COMPACTED SUBGRADE

NOTES:

1. GUTTER SHALL HAVE A 0.5% SLOPE, UNLESS NOTED OTHERWISE ON DRAWING.

6SD-07 TYPE C INTEGRAL CURB AND GUTTER

SD-04

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

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: N. JOHNSON
CHECKED: A. HUNT
DESIGNED: N. JOHNSON
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

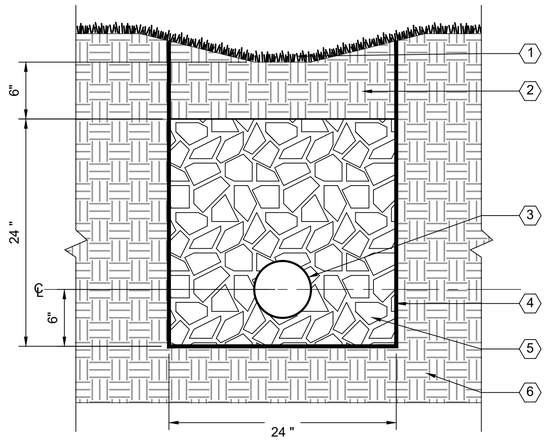
AVALON PROMENADE GATEWAY

STORM DRAIN DETAILS

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3472
SHEET NUMBER: SD-07

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POLARIS21_032022_BW0



KEYNOTES (#):

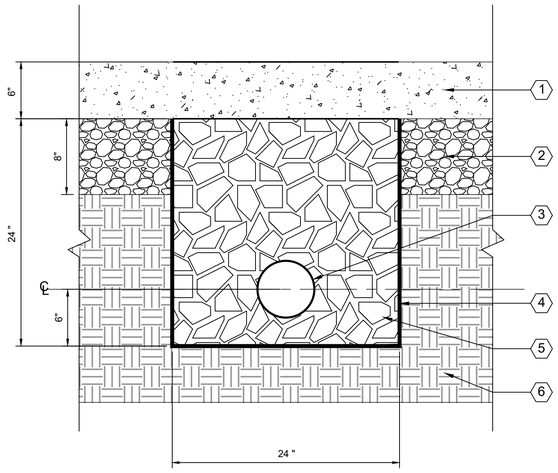
1. GRASSY SWALE, PER DETAIL 2SD-07
2. PLANTING SOIL
3. 6" PERFORATED HDPE
4. GEOTEXTILE FABRIC, MIRAFI140N
5. DRAINAGE STONE
6. COMPACTED SUBGRADE

NOTES:

1. ALL FRENCH DRAINS SHALL HAVE A 0.5% SLOPE, UNLESS NOTED OTHERWISE ON DRAWING.

1SD-08 / SD-01 FRENCH DRAIN - TYPE 1

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



KEYNOTES (#):

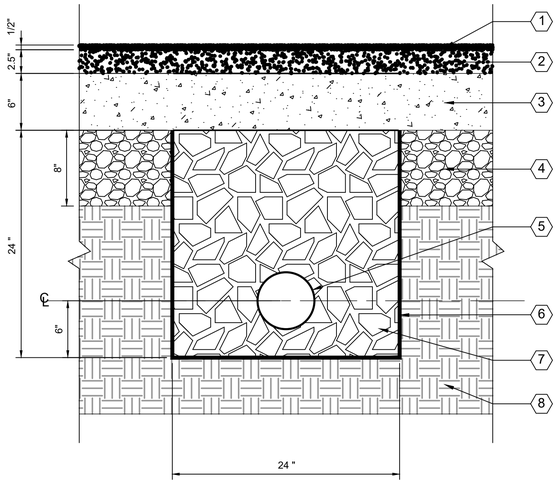
1. CONCRETE PAVING, PER DETAIL 1LD-01
2. CRUSHED MISCELLANEOUS BASE
3. 6" PERFORATED HDPE
4. GEOTEXTILE FABRIC, MIRAFI140N
5. DRAINAGE STONE
6. COMPACTED SUBGRADE

NOTES:

1. ALL FRENCH DRAINS SHALL HAVE A 0.5% SLOPE, UNLESS NOTED OTHERWISE ON DRAWING.

2SD-08 / SD-01 FRENCH DRAIN - TYPE 2

SCALE: 2" = 1'-0"



KEYNOTES (#):

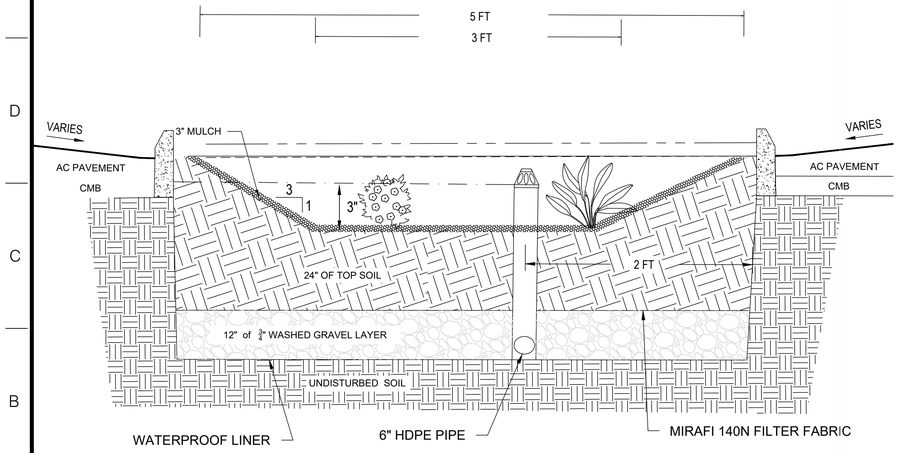
1. POURED-IN-PLACE WEARING COURSE OF RUBBER GRANULES, COLOR VARIES, SEE SAFETY SURFACE COLOR PATTERNS
2. POURED-IN-PLACE CUSHION LAYER OF SHOCK-ABSORBING RUBBER MATERIAL, THICKNESS PER DETAIL 9LD-18
3. REINFORCED CONCRETE SUB SLAB
4. CRUSHED MISCELLANEOUS BASE
5. 6" PERFORATED HDPE
6. GEOTEXTILE FABRIC, MIRAFI140N
7. DRAINAGE STONE
8. COMPACTED SUBGRADE

NOTES:

1. ALL FRENCH DRAINS SHALL HAVE A 0.5% SLOPE, UNLESS NOTED OTHERWISE ON DRAWING.

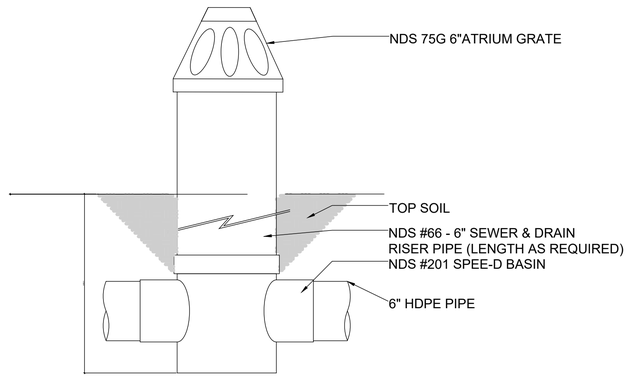
3SD-08 / SD-01 FRENCH DRAIN - TYPE 3

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



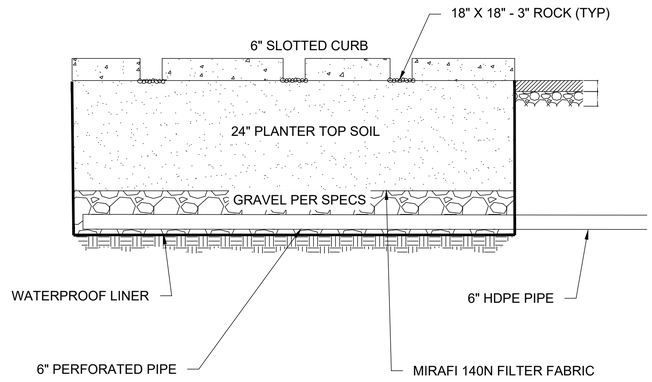
4SD-08 / SD-01 FLOW THROUGH PLANTER

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



5SD-08 / SD-01 LANDSCAPING DRAIN

SCALE:



6SD-08 / SD-01 SLOTTED CURB

SCALE: 1" = 10'

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: N. JOHNSON
CHECKED: A. HUNT
DESIGNED: N. JOHNSON
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

AVALON PROMENADE GATEWAY

STORM DRAIN DETAILS

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3472
SHEET NUMBER: SD-08

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DATE: Nov 05, 2024 4:43pm
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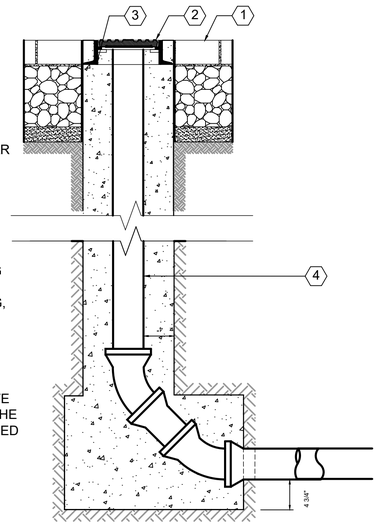
TYPE 1

LEGEND

1. MATERIAL VARIES (SEE DRAWINGS)
2. STORM CLEANOUT FRAME & COVER
3. SET CASTING ASSEMBLY IN CONCRETE COLLAR
4. 4"-8" DUCTILE IRON RISER PIPE. CLEAN OUT SHALL MATCH PIPE SIZE

NOTE:

1. CLEANOUT TOP SHALL BE ENCLOSED IN CASTING OR FABRICATED COVER ASSEMBLY.
2. WHEN CLEANOUT OCCURS IN CONCRETE PAVING, CONCRETE COLLAR SHALL MATCH ADJACENT CONCRETE COLOR.
3. WHEN CLEANOUT OCCURS ALONG SLOT DRAIN, COVER WITH PAVER AND MORTAR INFILL TO BE USED, SEE DT 5/LD-04
4. WHEN CLEANOUT OCCURS IN PAVERS, CONCRETE COLLAR SHALL BE CAST TO THE ELEVATION OF THE SUB-SLAB TO ALLOW FOR PAVERS AT THE FINISHED GRADE. PAVERS SHALL BE MARKED "CO".
5. WHEN CLEANOUT OCCURS IN PLANTING AREAS, CONCRETE COLLAR SHALL BE HELD 4" BELOW FINISHED GRADE.



END OF LINE CLEANOUT

2SD-09 / SD-01 **END OF LINE CLEANOUT**
SCALE: 1" = 1'-0"

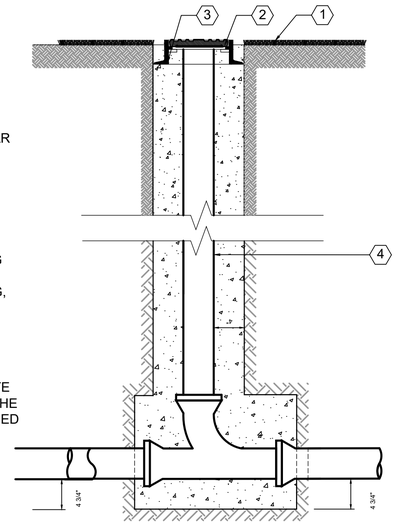
TYPE 2

LEGEND

1. MATERIAL VARIES (SEE DRAWINGS)
2. STORM CLEANOUT FRAME & COVER
3. SET CASTING ASSEMBLY IN CONCRETE COLLAR
4. 4"-8" DUCTILE IRON RISER PIPE. CLEAN OUT SHALL MATCH PIPE SIZE

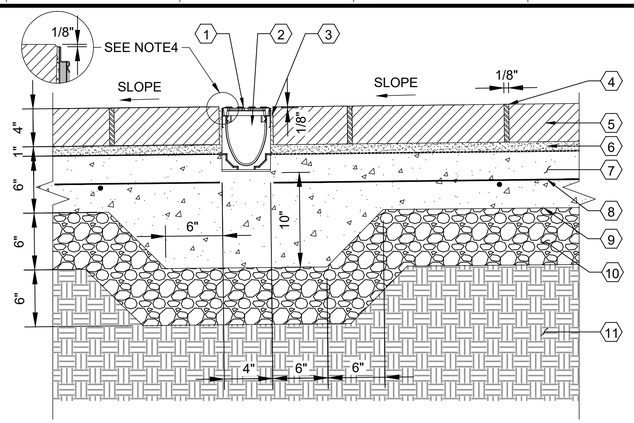
NOTE:

1. CLEANOUT TOP SHALL BE ENCLOSED IN CASTING OR FABRICATED COVER ASSEMBLY.
2. WHEN CLEANOUT OCCURS IN CONCRETE PAVING, CONCRETE COLLAR SHALL MATCH ADJACENT CONCRETE COLOR.
3. WHEN CLEANOUT OCCURS ALONG SLOT DRAIN, COVER WITH PAVER AND MORTAR INFILL TO BE USED, SEE DT 5/LD-04
4. WHEN CLEANOUT OCCURS IN PAVERS, CONCRETE COLLAR SHALL BE CAST TO THE ELEVATION OF THE SUB-SLAB TO ALLOW FOR PAVERS AT THE FINISHED GRADE. PAVERS SHALL BE MARKED "CO".
5. WHEN CLEANOUT OCCURS IN PLANTING AREAS, CONCRETE COLLAR SHALL BE HELD 4" BELOW FINISHED GRADE.



IN LINE CLEANOUT

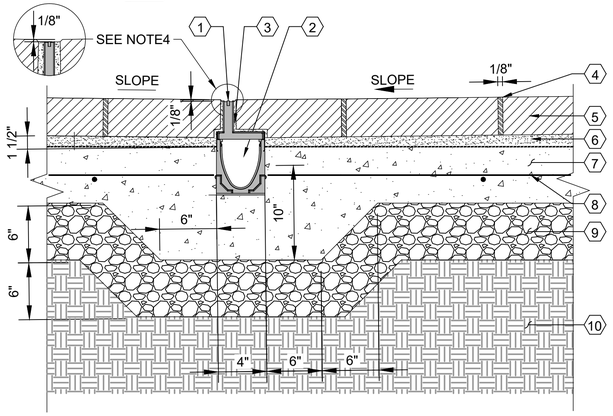
2SD-09 / SD-01 **IN LINE CLEANOUT**
SCALE: 1" = 1'-0"



KEYNOTES (#):

1. TRENCH DRAIN GRATE
2. TRENCH DRAIN, SEE SPECIFICATIONS
3. SAND SWEPT BUTT JOINT
4. MORTAR GROUT, PER DETAIL 6LD-01
5. CONCRETE UNIT PAVER, PER LM SHEETS
6. MORTAR SETTING BED
7. CONCRETE SUB SLAB
8. GEOTEXTILE FABRIC, MIRAFI140N
9. REBAR PER DETAIL 6LD-01
10. CRUSHED MISCELLANEOUS BASE
11. COMPACTED SUBGRADE

3SD-09 / SD-01 **TRENCH DRAIN**
SCALE: 1 1/2" = 1'-0"

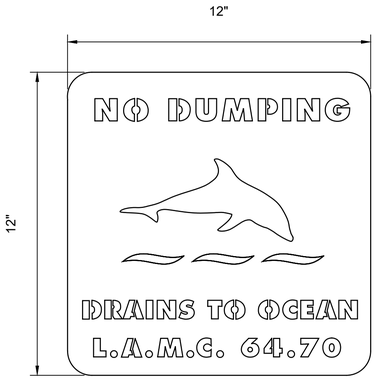


KEYNOTES (#):

1. SLOT DRAIN GRATE
2. SLOT DRAIN, SEE SPECIFICATIONS
3. SAND SWEPT BUTT JOINT
4. MORTAR GROUT, PER DETAIL 6LD-01
5. CONCRETE UNIT PAVER, PER LM SHEETS
6. CRUSHED MISCELLANEOUS BASE
7. GEOTEXTILE FABRIC, MIRAFI140N
8. CONCRETE SUB SLAB
9. REBAR PER DETAIL 6LD-01
10. CRUSHED MISCELLANEOUS BASE
11. COMPACTED SUBGRADE

4SD-09 / SD-01 **SLOT DRAIN**
SCALE: 1 1/2" = 1'-0"

5SD-09 / SD-01 **SLOT DRAIN CONNECTION**
SCALE: 1" = 1'-0"



NOTES:

1. STENCIL ALL NEW AND EXISTING CATCH BASINS WITHIN THE PROJECT LIMITS.

6SD-09 / SD-01 **STORM DRAIN STENCIL**
SCALE: 1" = 3'

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: N. JOHNSON
CHECKED: A. HUNT
DESIGNED: N. JOHNSON
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER ____ DATE

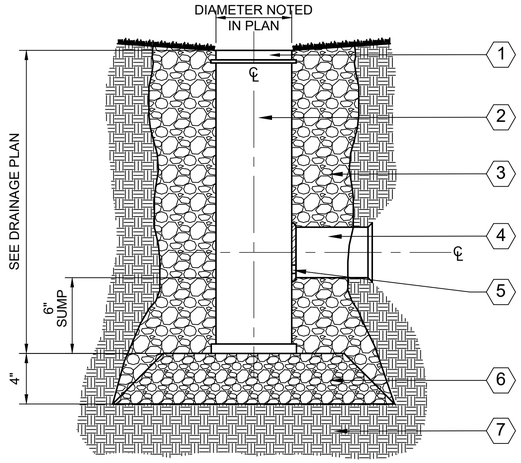
AVALON PROMENADE GATEWAY

STORM DRAIN DETAILS

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3472
SHEET NUMBER: SD-09

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DATE: Nov 05, 2024 4:44pm
PDLAPRDY_03/2022_BW'D



KEYNOTES (#):

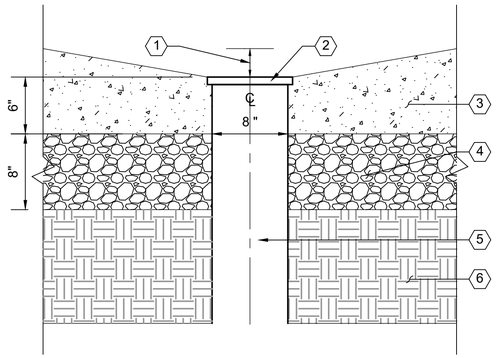
1. GRATE H-10 LOADING, ADA COMPLIANT
2. DRAINAGE BASIN
3. WASHED AASHTO #57 STONE
4. HDPE OUTLET
5. RESTRICTOR PLATE WHERE REQUIRED
6. CRUSHED MISCELLANEOUS BASE
7. COMPACTED SUBGRADE

NOTES:

1. AREA DRAIN GRATES IN PLAYGROUND AND PICNIC AREAS WILL BE 6" ROUND EXCEPT WHERE NOTED.
2. AREA DRAIN GRATES IN HARDSCAPE AND LANDSCAPE WILL BE 12" X 12" SQUARE EXCEPT WHERE NOTED.

1SD-10 / SD-01 AREA DRAIN - TYPE 1

SCALE: 2" = 1'-0"

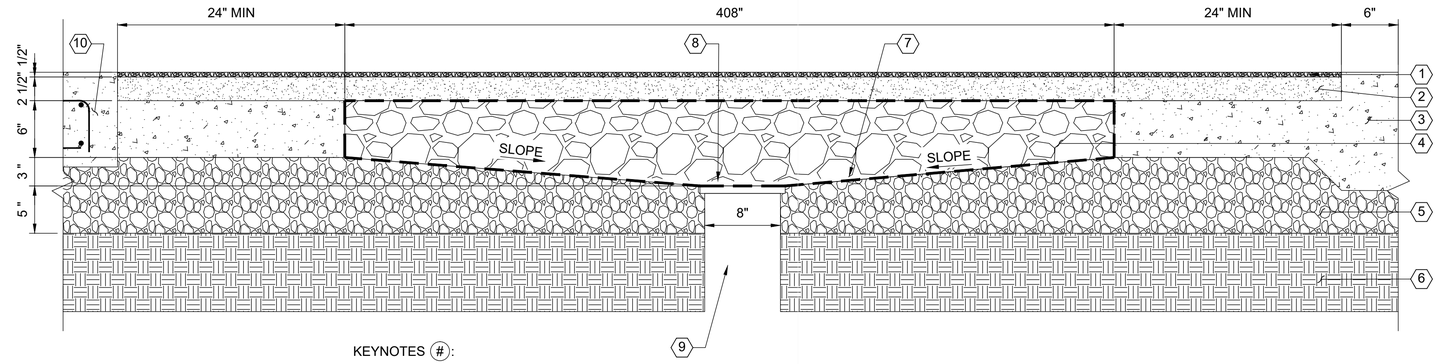


KEYNOTES (#):

1. DEPTH VARIES, SEE GP SHEETS
2. GRATE H-10 LOADING, ADA COMPLIANT
3. CONCRETE SUB SLAB
4. CRUSHED MISCELLANEOUS BASE
5. 8" AREA DRAIN
6. COMPACTED SUBGRADE

2SD-10 / SD-01 AREA DRAIN - TYPE 2

SCALE: 2" = 1'-0"

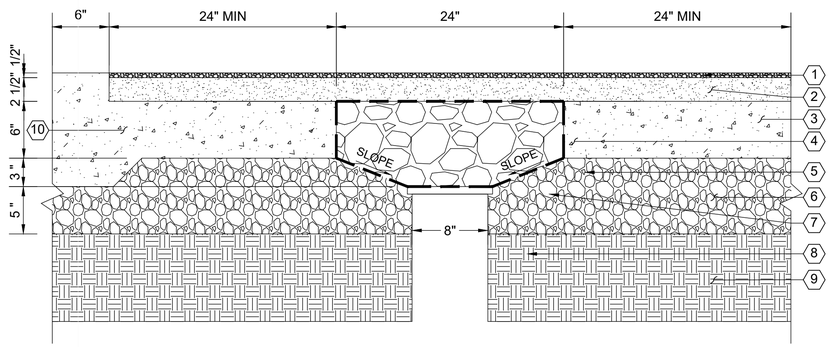


KEYNOTES (#):

1. SAFETY SURFACE, WEARING COURSE
2. SAFETY SURFACE, CUSHION LAYER
3. CONCRETE CURB, SEE DETAIL 7LD-18
4. CLASS 2 PERMEABLE FILL ($\frac{3}{4}$" GRAVEL)
5. CRUSHED MISCELLANEOUS BASE
6. COMPACTED SUBGRADE
7. GEOTEXTILE FABRIC, MIRAFI140N
8. GRATE H-10 LOADING, ADA COMPLIANT
9. AREA DRAIN
10. CONCRETE PAVING, PER DETAIL 4LD-01

3SD-10 / SD-03 AREA DRAIN - 2-5 YRS OLD PLAYGROUND

SCALE: 1" = 8'



KEYNOTES (#):

1. SAFETY SURFACE, WEARING COURSE
2. SAFETY SURFACE, CUSHION LAYER
3. CONCRETE SUB SLAB
4. CLASS 2 PERMEABLE FILL ($\frac{3}{4}$" GRAVEL)
5. GEOTEXTILE FABRIC, MIRAFI140N
6. CRUSHED MISCELLANEOUS BASE
7. GRATE H-10 LOADING, ADA COMPLIANT
8. AREA DRAIN
9. COMPACTED SUBGRADE
10. CONCRETE CURB, PER DETAIL 7LD-18

4SD-10 / SD-03 AREA DRAIN - 2-5 YRS OLD PLAYGROUND

SCALE: 1" = 8'

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: N. JOHNSON
CHECKED: A. HUNT
DESIGNED: N. JOHNSON
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

AVALON PROMENADE GATEWAY

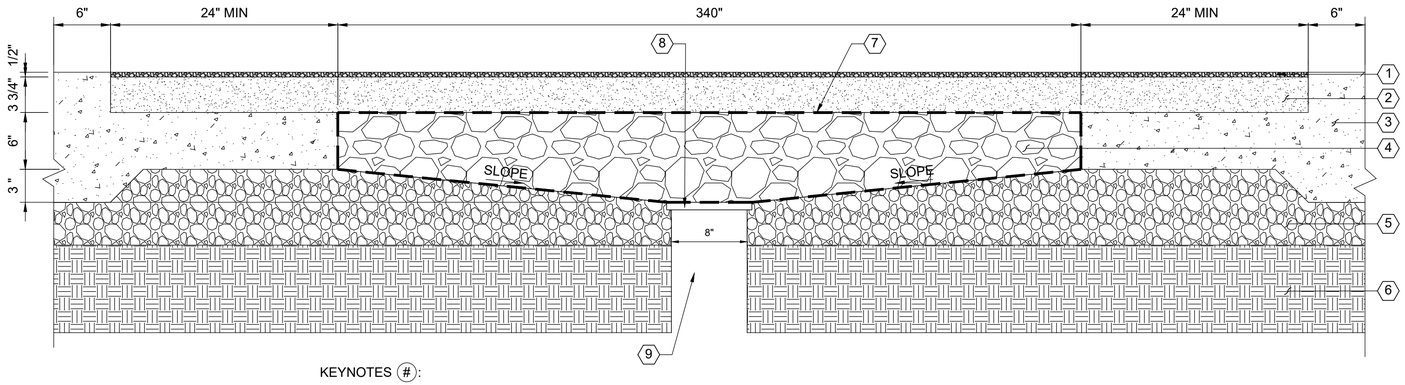
STORM DRAIN DETAILS

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472

SHEET NUMBER SD-10

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DATE: Nov 05, 2024 4:44pm

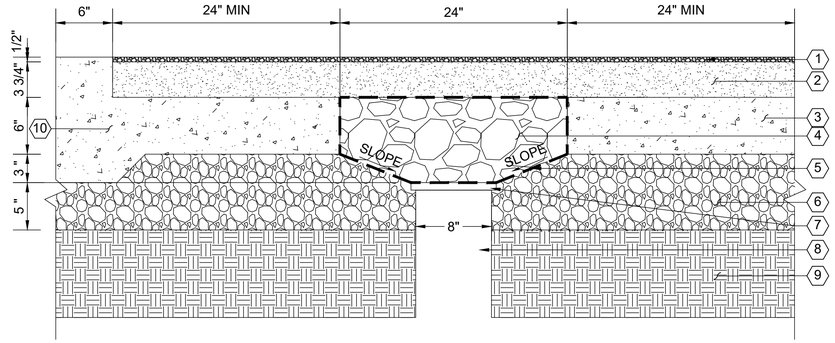


KEYNOTES (#):

1. SAFETY SURFACE, WEARING COURSE
2. SAFETY SURFACE, CUSHION LAYER
3. CONCRETE CURB, SEE DETAIL 7LD-18
4. CLASS 2 PERMEABLE FILL ($\frac{3}{4}$" GRAVEL)
5. CRUSHED MISCELLANEOUS BASE
6. COMPACTED SUBGRADE
7. GEOTEXTILE FABRIC, MIRAFI140N
8. GRATE H-10 LOADING, ADA COMPLIANT
9. AREA DRAIN, 8" EXCEPT WHERE NOTED

1SD-11 / SD-03 AREA DRAIN - 5-12 YRS OLD PLAYGROUND

SCALE: 1" = 8'

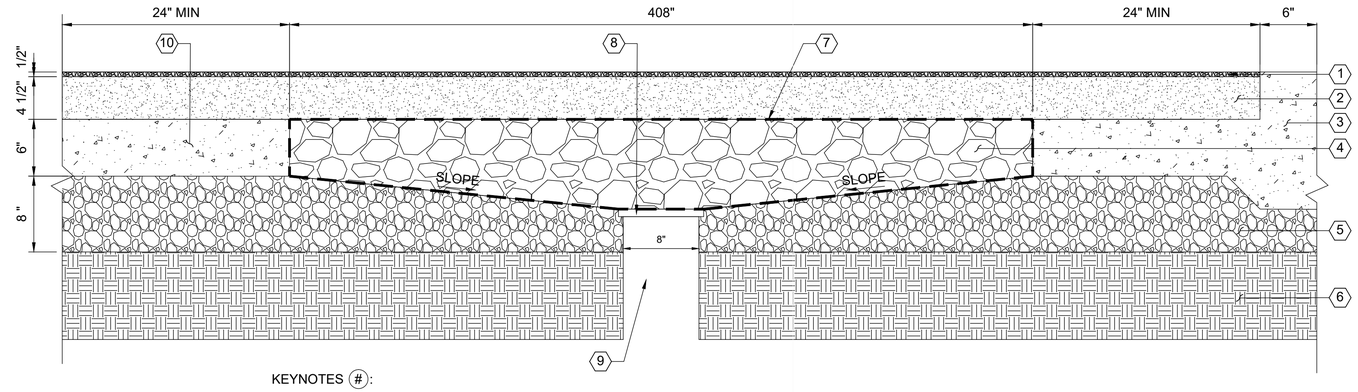


KEYNOTES (#):

1. SAFETY SURFACE, WEARING COURSE
2. SAFETY SURFACE, CUSHION LAYER
3. CONCRETE SUB SLAB
4. CLASS 2 PERMEABLE FILL ($\frac{3}{4}$" GRAVEL)
5. GEOTEXTILE FABRIC, MIRAFI140N
6. CRUSHED MISCELLANEOUS BASE
7. GRATE H-10 LOADING, ADA COMPLIANT
8. AREA DRAIN
9. COMPACTED SUBGRADE
10. CONCRETE CURB, PER DETAIL 7LD-18

2SD-11 / SD-03 AREA DRAIN - 5-12 YRS OLD PLAYGROUND

SCALE: 1" = 8'

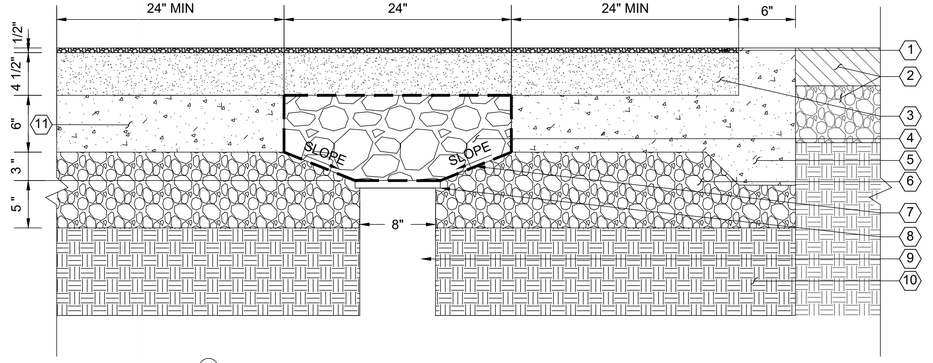


KEYNOTES (#):

1. SAFETY SURFACE, WEARING COURSE
2. SAFETY SURFACE, CUSHION LAYER
3. CONCRETE CURB, SEE DETAIL 7LD-18
4. CLASS 2 PERMEABLE FILL ($\frac{3}{4}$" GRAVEL)
5. CRUSHED MISCELLANEOUS BASE
6. COMPACTED SUBGRADE
7. GEOTEXTILE FABRIC, MIRAFI140N
8. GRATE H-10 LOADING, ADA COMPLIANT
9. AREA DRAIN
10. CONCRETE SUBSLAB

3SD-11 / SD-02 SD-04 AREA DRAIN - FITCORE EXTREME

SCALE: 1" = 8'



KEYNOTES (#):

1. SAFETY SURFACE, WEARING COURSE
2. EXISTING SIDEWALK
3. SAFETY SURFACE, CUSHION LAYER
4. CLASS 2 PERMEABLE FILL ($\frac{3}{4}$" GRAVEL)
5. CONCRETE CURB, PER DETAIL 7LD-18)
6. GEOTEXTILE FABRIC, MIRAFI140N
7. CRUSHED MISCELLANEOUS BASE
8. GRATE H-10 LOADING, ADA COMPLIANT
9. AREA DRAIN
10. COMPACTED SUBGRADE
11. CONCRETE SUBSLAB

4SD-11 / SD-02 SD-04 AREA DRAIN - FITCORE EXTREME

SCALE: 1" = 8'

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: N. JOHNSON
CHECKED: A. HUNT
DESIGNED: N. JOHNSON
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER ____ DATE

AVALON PROMENADE GATEWAY

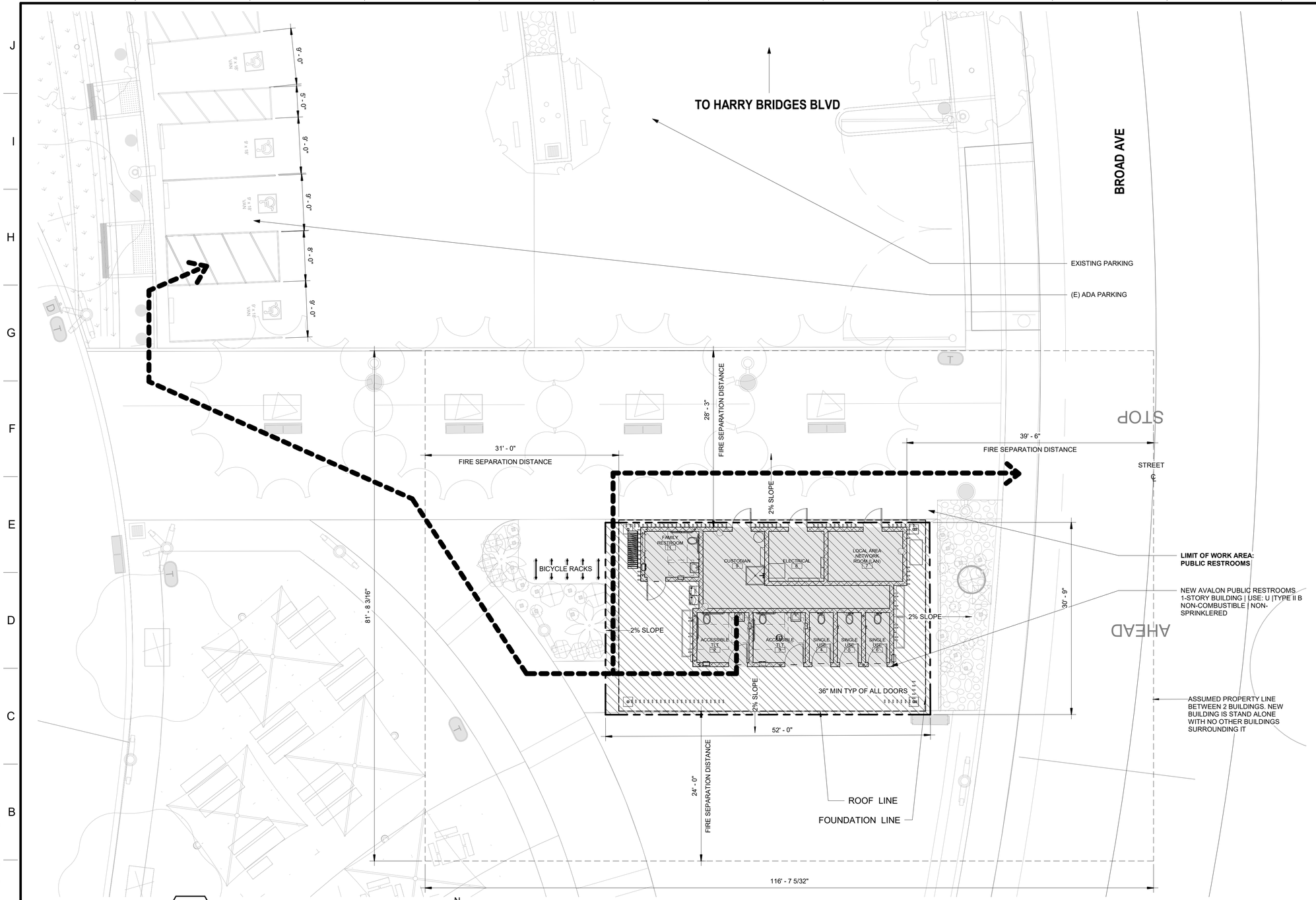
STORM DRAIN DETAILS

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3472
SHEET NUMBER: SD-11

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DATE: Nov 05, 2024 - 4:45pm

POLAPR01_SV2022_BW.D



1AB A-0.0 / AB A-0.0 ACCESSIBLE SITE PLAN

SCALE: 1/8" = 1'-0"

NOTES:

LEGEND:

- ACCESSIBLE PATH OF TRAVEL
- BICYCLE RACKS
- LIMIT OF WORK
- NEW RESTROOM BUILDING
- LIMIT OF WORK AREA
- ASSUMED PROPERTY LINE BETWEEN 2 BUILDINGS

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE:	AS SHOWN
DRAWN:	L. CASTILLO
CHECKED:	R. KUO
DESIGNED:	L. CASTILLO
ENGINEER / ARCHITECT	

CHIEF OF DESIGN

ASSISTANT CHIEF HARBOR ENGINEER

CHIEF HARBOR ENGINEER DATE

AVALON PROMENADE GATEWAY

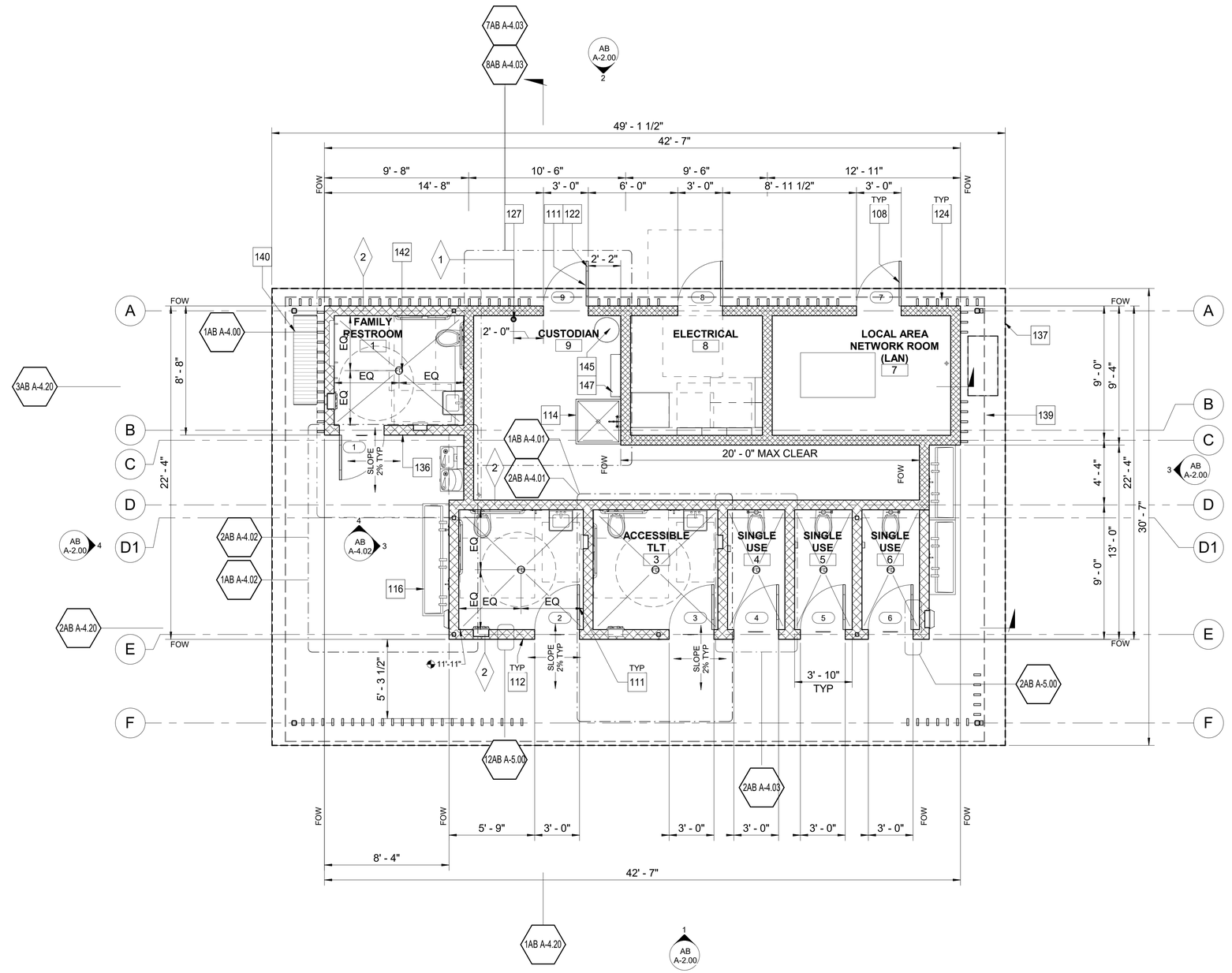
ACCESSIBILITY PLAN

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472

SHEET NUMBER AB A-0.0

RVT: C:\Users\castillol\Documents\Avalon Promenade Restroom Rev1\rvt_RVT-22_CENTRAL MODEL_castillol(KNUH4.rvt
DATE: 9/19/2024 6:06:49 PM



KEYNOTES - FLOOR PLANS

#	KEYNOTE TEXT
108	HOLLOW METAL DOOR AND FRAME PER DOOR SCHEDULE SEE SHEET A-6.10
111	SURFACE MOUNTED HOOK, MOUNT 48" AFF"
112	ADA ACCESSIBLE "UNISEX RESTROOM" "SINGLE USER SIGN WITH BRAILLE CELLS, TYP"
114	JANITOR'S FLOOR SINK
116	WALL MOUNTED VANDAL RESISTANT LAVATORY TROUGH
122	HOLLOW METAL DOOR AND FRAME WITH VENT PER DOOR SCHEDULE SEE SHEET A-6.10
124	2"x 6" IPE WOOD SCREEN 8"APART O.C.
127	METHANE VENT PIPE
136	ADA ACCESSIBLE "FAMILY RESTROOM" "SINGLE USER SIGN WITH BRAILLE CELLS, TYP
137	FOUNDATION SLAB EDGE OUTLINE BELOW
139	ROOF OUTLINE ABOVE
140	BENCH WITH 3 ARMRESTS PER LANDSCAPE DRAWINGS
142	DRAIN INFORMATION, PER STRUCTURAL DRAWINGS
145	WATER HEATER PER PLUMBING DRAWINGS
147	WALL ATTACHED MOP & BROOM ORGANIZER HOLDER

WALL LEGEND

- 8" CMU WALL FULL HEIGHT, TO UNDERSIDE OF ROOF
- 8" CMU WALL AT 9 FEET, WITH METAL MESH TO UNDERSIDE OF ROOF
- FLOOR DRAIN
- DRAIN SLOPE
- INDICATES DIRECTION OF FLOOR SLOPE FOR DRAINAGE IN ALL DIRECTIONS
- ROOF LINE ABOVE

ANNOTATION TAGS

- **ROOM TAG** — Room name / 101 — ROOM NAME / ROOM NUMBER
- **DOOR TAG** — 101 — DOOR NUMBER
- **WALL TAG** — 1A — WALL TYPE MARK, SEE DETAILS 11/AB-A5.0 & 12/AB-A5.0
- **KEYNOTE** — 01 — SEE SCHEDULE

GENERAL NOTES:

1. MINIMUM CLEAR DIMENSIONS ARE TO FINISH MATERIAL.
2. CMU DIMENSIONS ARE SHOWN TO CENTERLINE OF BLOCK, UNO
3. SEE DOOR SCHEDULE, SHEET AB A-6.10
4. SEE SHEET AB G-1.15, FOR DOOR REACH RANGE FOR OPERABLE PARTS AND KICK PLATES
5. SEE ELECTRICAL SHEETS FOR ELECTRICAL AND LAN ROOM
6. SEE SHEET AB G-1.18, FOR RESTROOM ADA SIGNAGE DETAILS

1AB A-1.00 / AB A-1.00 **FINISH FLOOR**
SCALE: 1/4" = 1'-0"

N

0 4 8 12
GRAPHIC SCALE

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: L. CASTILLO
CHECKED: R. KUO
DESIGNED: L. CASTILLO
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

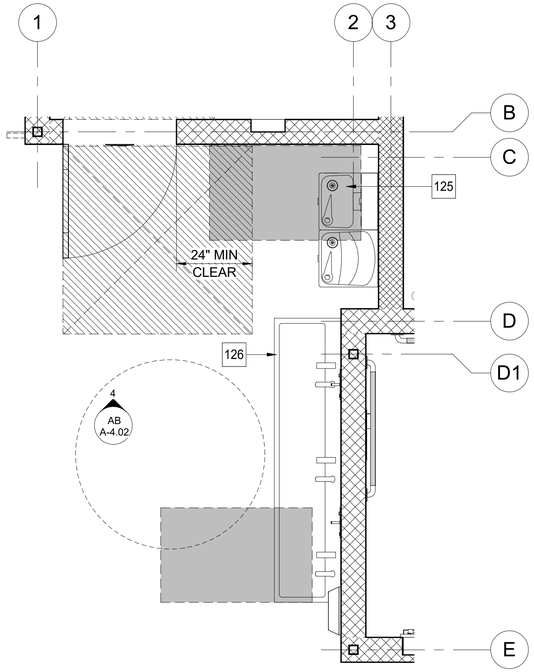
AVALON PROMENADE GATEWAY

FLOOR PLAN

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472
SHEET NUMBER AB A-1.00

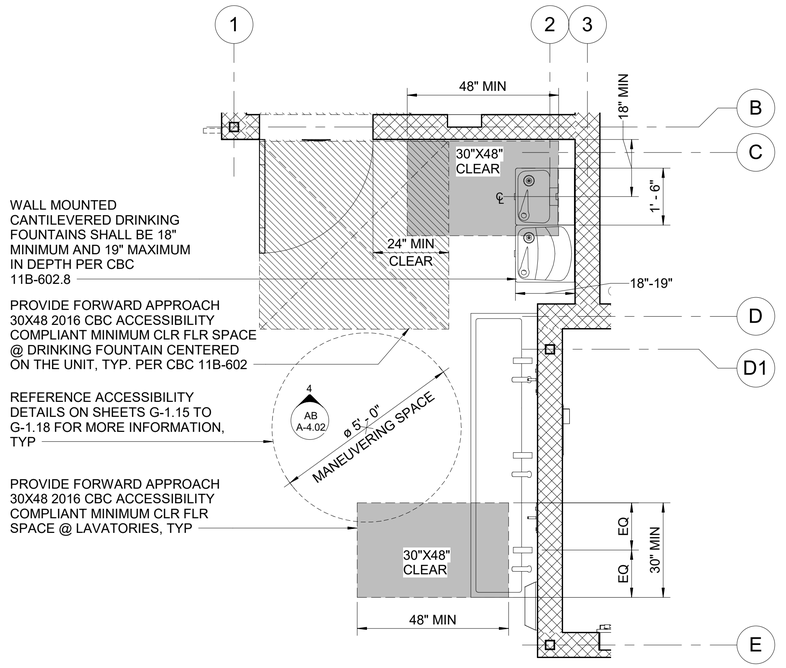
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1AB A-4.02 / 1AB A-1.00 ENLARGED PLAN -DRINKING FOUNTAIN

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

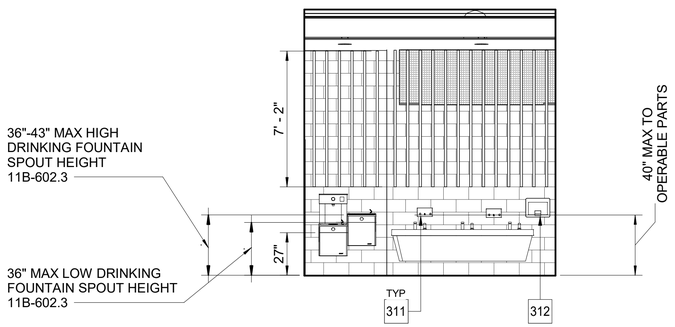
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2AB A-4.02 / 1AB A-1.00 DRINKING FOUNTAIN ACCESSIBILITY PLAN

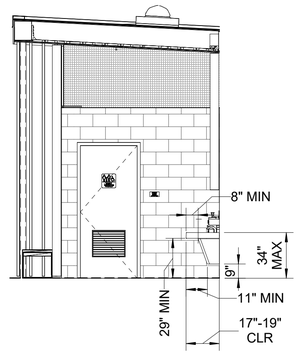
SCALE: 1/2" = 1'-0"

N



3AB A-4.02 / 1AB A-1.00 DRINKING FOUNTAIN & SINK ELEVATION

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



4AB A-4.02 / 1AB A-1.00 DRINKING FOUNTAIN & SINK ELEVATION 2

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

KEYNOTES - FLOOR PLANS

#	KEYNOTE TEXT
125	SURFACE MOUNTED STAINNLESS STEEL BI-LEVEL AA VANDAL RESISTANT DRINKING FOUNTAIN
126	WALL MOUNTED VANDAL RESISTANT LAVATORY TROUGH

KEYNOTES - ELEVATIONS

#	KEYNOTE TEXT
311	RECESSED MOUNTED FOAM SOAP DISPENSER; STAINLESS STEEL SATIN FINISH, VANDAL RESISTANT
312	RECESSED AUTOMATIC HAND DRYER; STAINLESS STEEL SATIN FINISH

NOTE:

PLEASE REFER TO AB G-1.16 FOR DRINKING FOUNTAIN AND LAVATORY TOE CLEARANCE AND REACH RANGE HEIGHTS.

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: L. CASTILLO
CHECKED: R. KUO
DESIGNED: L. CASTILLO
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

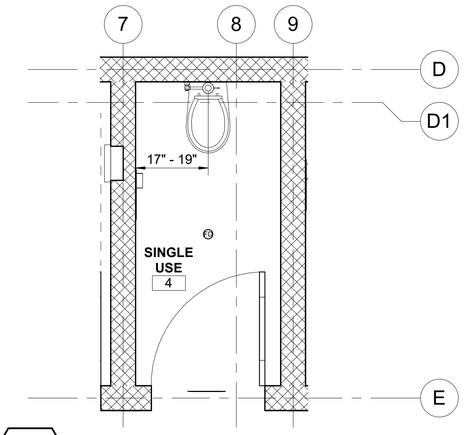
AVALON PROMENADE GATEWAY

ENLARGED PLANS AND INTERIOR ELEVATIONS

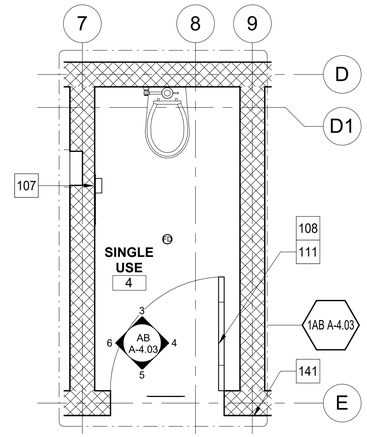
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3472
SHEET NUMBER: AB A-4.02

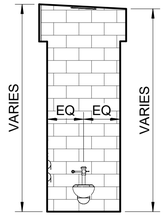
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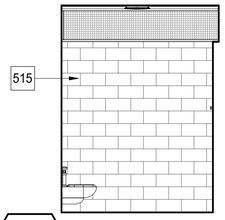
1AB A-4.03 / 2AB A-4.03 **SINGLE STALL RESTROOM NOTES**
SCALE: 1/2" = 1'-0"



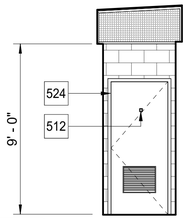
2AB A-4.03 / 1AB A-1.00 **SINGLE STALL RESTROOM**
SCALE: 1/2" = 1'-0"



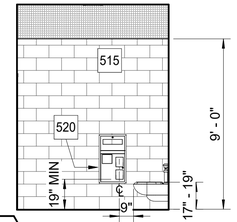
3AB A-4.03 / 2AB A-4.03 **SINGLE STALL 3**
SCALE: 1/4" = 1'-0"



4AB A-4.03 / 2AB A-4.03 **SINGLE STALL 4**
SCALE: 1/4" = 1'-0"

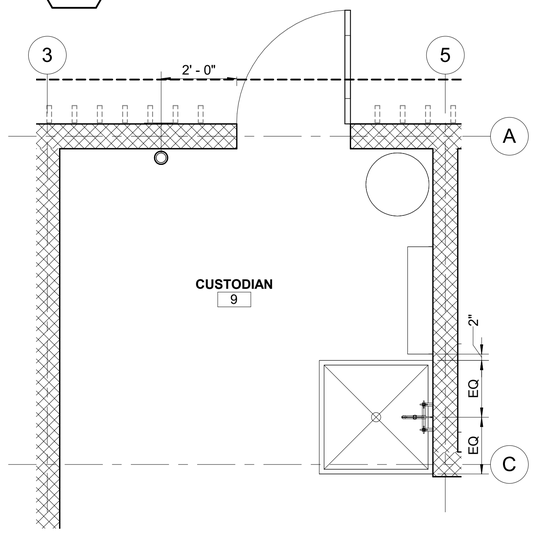


5AB A-4.03 / 2AB A-4.03 **SINGLE STALL 5**
SCALE: 1/4" = 1'-0"

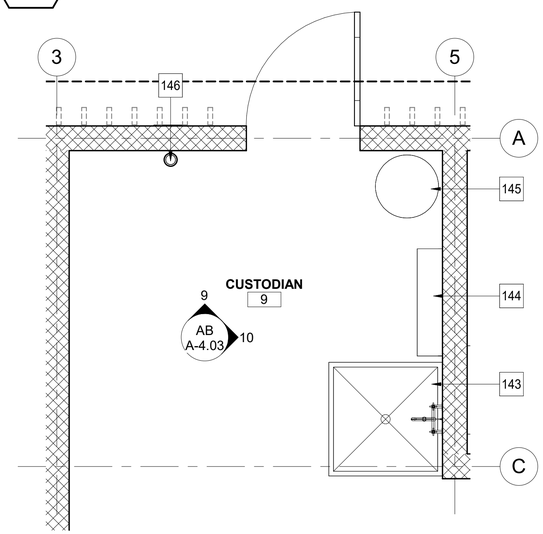


6AB A-4.03 / 2AB A-4.03 **SINGLE STALL 6**
SCALE: 1/4" = 1'-0"

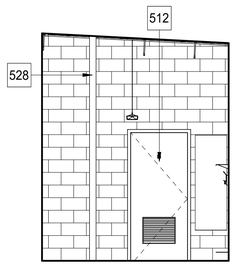
KEYNOTES - FLOOR PLANS	
#	KEYNOTE TEXT
107	RECESSED TOILET SEAT-COVER DISPENSER, WASTE DISPOSAL, AND TOILET TISSUE DISPENSER
108	HOLLOW METAL DOOR AND FRAME PER DOOR SCHEDULE SEE SHEET A-6.10
111	SURFACE MOUNTED HOOK, MOUNT 48" AFF"
141	UNISEX RESTROOM, SINGLE USER SIGN WITH BRAILLE CELLS, TYP
143	FLOOR MOP SINK INFORMATION PER PLUMBING DRAWINGS
144	MOP AND BROOM HOLDER, WALL ATTACHED
145	WATER HEATER PER PLUMBING DRAWINGS
146	METHANE VENT PIPE, PER METHANE DRAWINGS



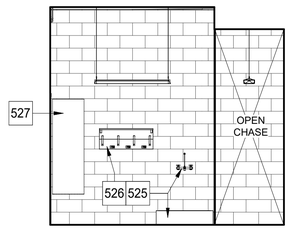
7AB A-4.03 / 1AB A-1.00 **CUSTODIAN ROOM NOTES**
SCALE: 1/2" = 1'-0"



8AB A-4.03 / 1AB A-1.00 **CUSTODIAN ROOM**
SCALE: 1/2" = 1'-0"



9AB A-4.03 / 1AB A-4.00 **CUSTODIAN 1**
SCALE: 1/4" = 1'-0"



10AB A-4.03 / 8AB A-4.03 **CUSTODIAN 2**
SCALE: 1/4" = 1'-0"

KEYNOTES - ELEVATIONS	
#	KEYNOTE TEXT
512	SINGLE ROBE HOOK; SURFACE MOUNTED 48" AFF
515	8" CONCRETE MASONRY UNIT REINFORCED WALL; SEE FINISH SCHEDULE
520	RECESSED TOILET SEAT-COVER DISPENSER, WASTE DISPOSAL, AND TOILET TISSUE DISPENSER
524	HOLLOW METAL DOOR AND FRAME PER DOOR SCHEDULE SEE SHEET A-6.10
525	FLOOR MOP SINK INFORMATION PER PLUMBING DRAWINGS
526	MOP AND BROOM HOLDER, WALL ATTACHED
527	WATER HEATER PER PLUMING DRAWINGS
528	METHANE PIPE, PER METHANE DRAWINGS

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: L. CASTILLO
CHECKED: R. KUO
DESIGNED: L. CASTILLO
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

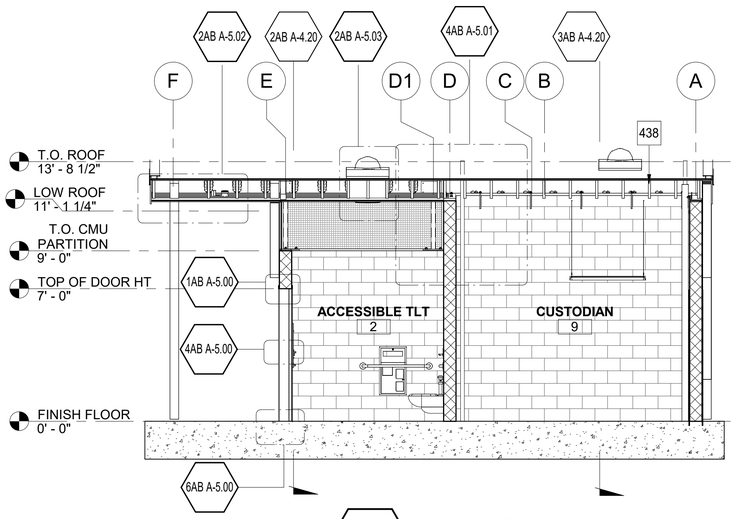
AVALON PROMENADE GATEWAY

ENLARGED PLANS AND INTERIOR ELEVATIONS

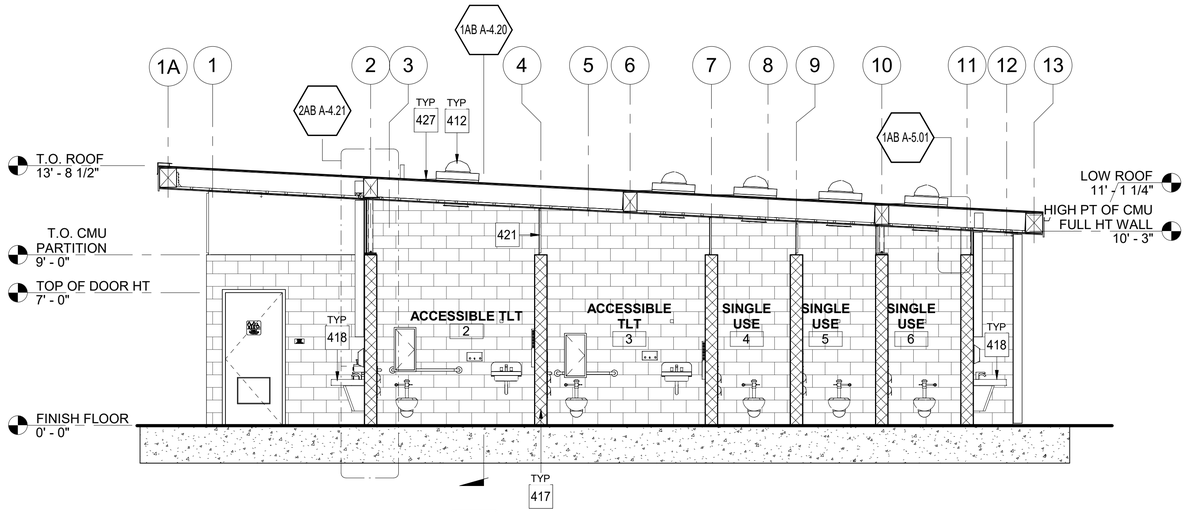
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472
SHEET NUMBER AB A-4.03

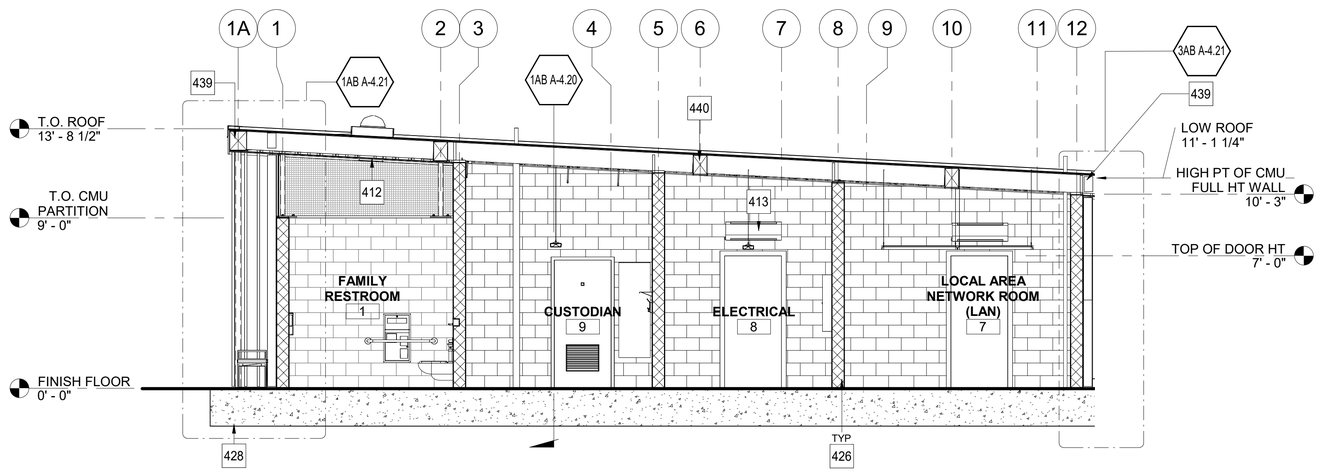
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DATE: 8/19/2024 6:17:52 PM



1AB A-4.20 / 1AB A-1.00 SECTION 1
SCALE: 1/4" = 1'-0"



2AB A-4.20 / 1AB A-1.00 SECTION 2
SCALE: 1/4" = 1'-0"



3AB A-4.20 / 1AB A-1.00 SECTION 3
SCALE: 1/4" = 1'-0"

KEYNOTES - BUILDING SECTIONS

#	KEYNOTE TEXT
412	14" DIAMETER SOLATUBE NATURAL LIGHT SKYLIGHT W/INTEGRATED LED LIGHT
413	WALL MOUNTED AC UNIT PER MECHANICAL SHEETS
417	8" CONCRETE MASORY UNIT REINFORCED WALL
418	EXTERIOR PLUMBING FIXTURE, SEE PLUMBING SHEETS
421	PRE-FINISHED METAL SCREEN W/PERFORATED METAL INFILL. EXTEND TO UNDERSIDE OF SOFFIT
426	8" CONCRETE MASORY UNIT REINFORCED FULL HEIGHT WALL
427	ROOF CRICKET
428	24" MATT FOUNDATION PER STRUCTURAL DRAWINGS
438	2X12 JOISTS AT 18" O.C
439	11X12 GLULAM BEAM
440	9X12 GLULAM BEAM

GENERAL NOTES:

1. DIMENSIONS SHOWN ARE FROM TOP OF FINISH FLOOR SLAB.
2. DOOR HEADERS ARE 7'-0" ABOVE FINISH FLOOR
3. STEEL DOWNSPOUTS TO BE FIELD PAINTED TO MATCH BUILDING ELEVATIONS
4. EXPOSED STRUCTURAL MEMBERS TO BE BE WEATHER TREATED, AND STAINED, SEE FINISH SCHEDULE
5. EXPOSED GLU-LAMS, ROOF AND JOISTS TO BE ARCHITECTURAL GRADE, WHERE OCCURS
6. ARCHITECTURAL METAL SCREENS TO EXTEND TO THE UNDERSIDE OF CEILING
7. DOWNSPOUTS TO BE COORDINATED WITH CIVIL SHEETS

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: L. CASTILLO
CHECKED: R. KUO
DESIGNED: L. CASTILLO
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

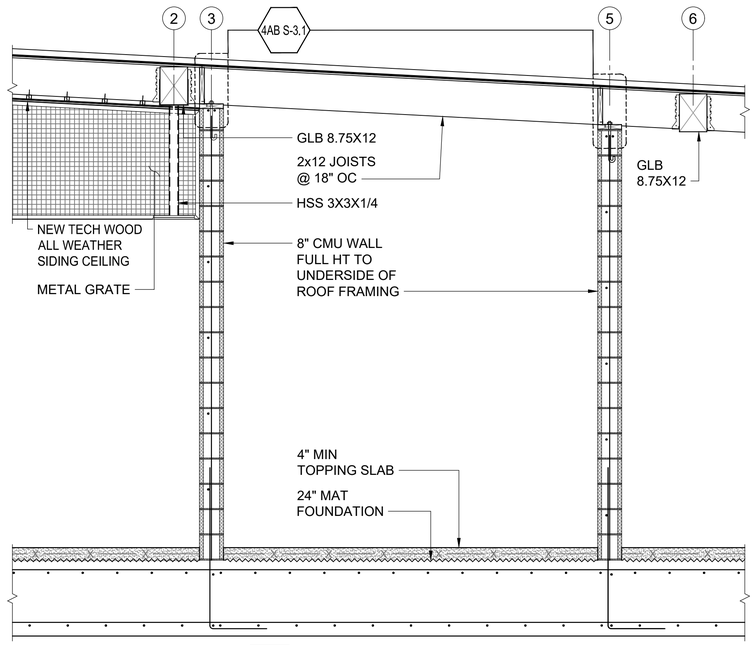
AVALON PROMENADE GATEWAY

WALL SECTIONS

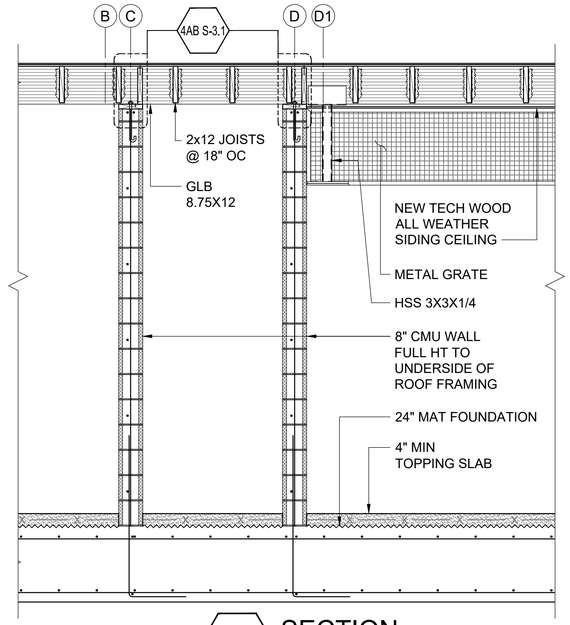
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472
SHEET NUMBER AB A-4.20

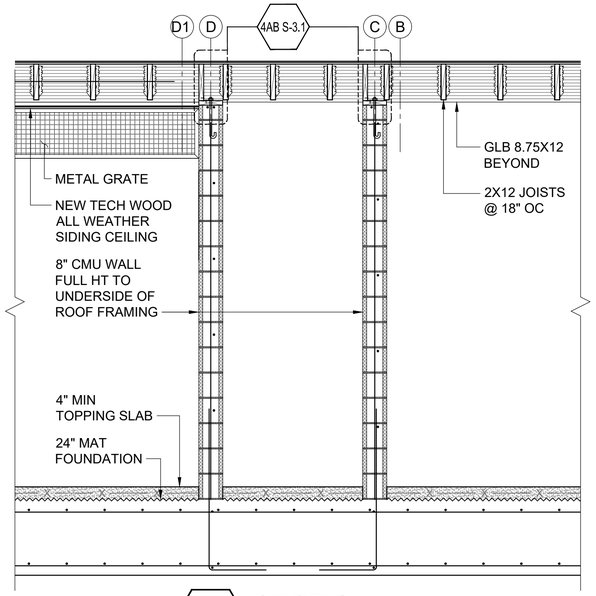
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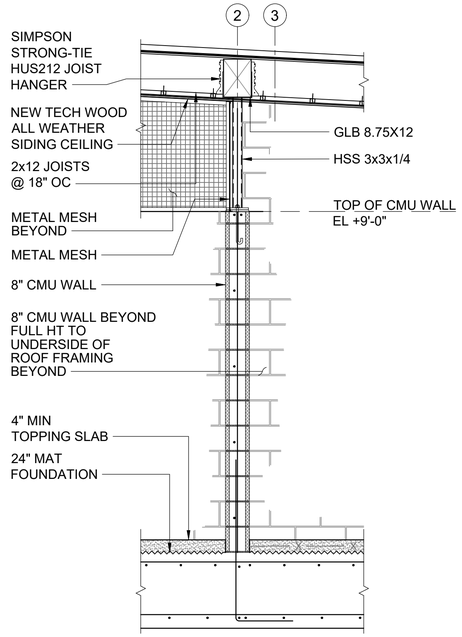
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SCALE: 1/2" = 1'-0"



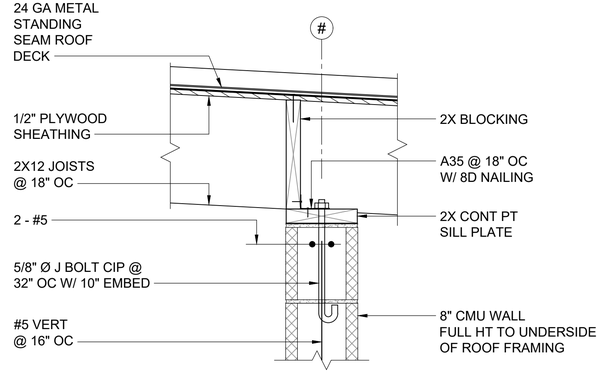
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SCALE: 1/2" = 1'-0"



3AB S-3.1 / AB S-2.0 **SECTION**
SCALE: 1/2" = 1'-0"



4AB S-3.1 / AB S-2.0 **SECTION**
SCALE: 1/2" = 1'-0"



5AB S-3.1 / AB S-3.1 **DETAIL**
SCALE: 1/2" = 1'-0"

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: B. DAVIS
CHECKED: L. BECARIA
DESIGNED: B. WILLIAMS/E. CHANG
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER ____ DATE

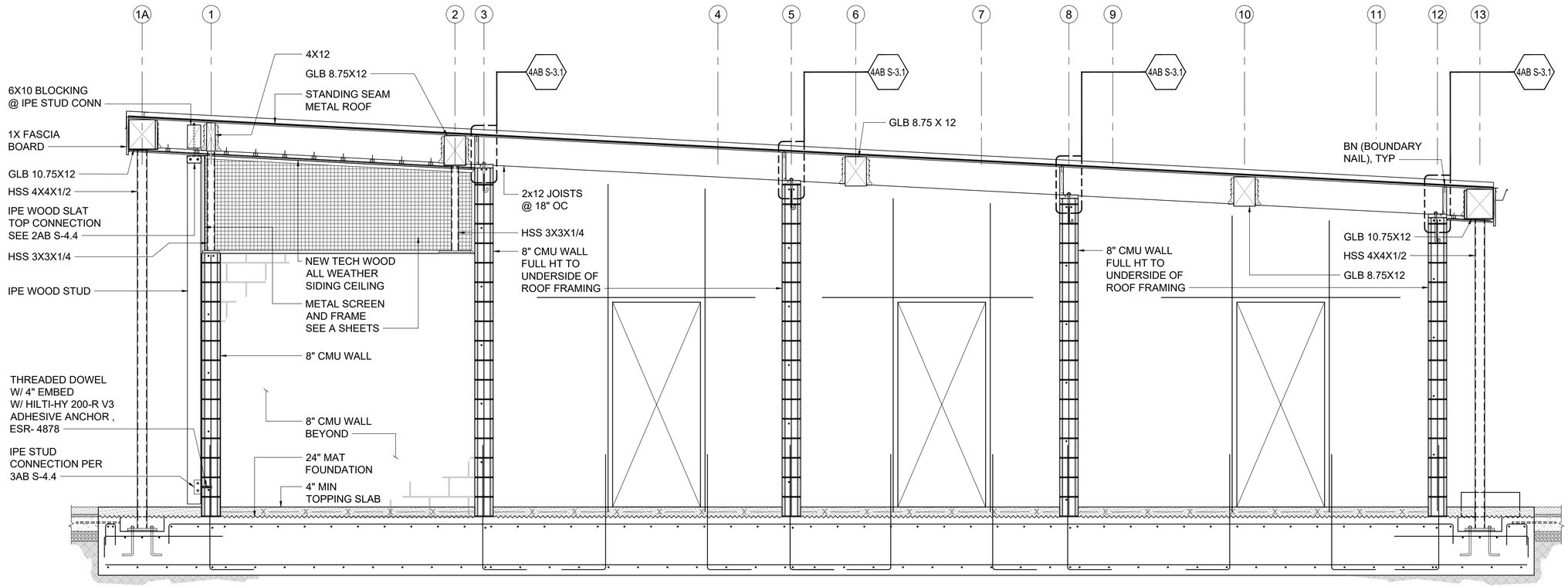
AVALON PROMENADE GATEWAY

INTERIOR WALL SECTIONS

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472
SHEET NUMBER AB S-3.1

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1AB S-3.2
1AB S-2.1

ROOF SECTION ALONG GRIDLINE A

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

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: B. DAVIS
CHECKED: L. BECARIA
DESIGNED: B. WILLIAMS/E. CHANG
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

AVALON PROMENADE GATEWAY

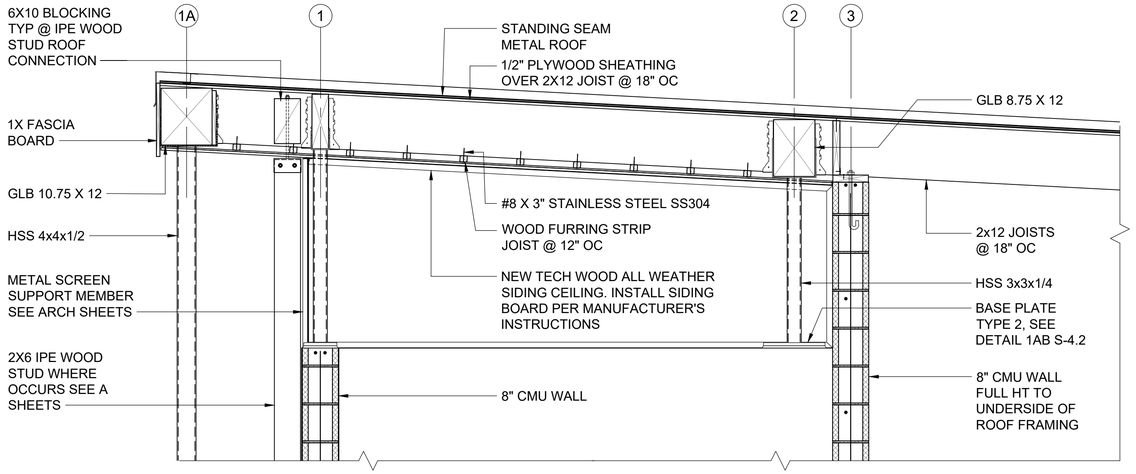
ROOF FRAMING DETAILS

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

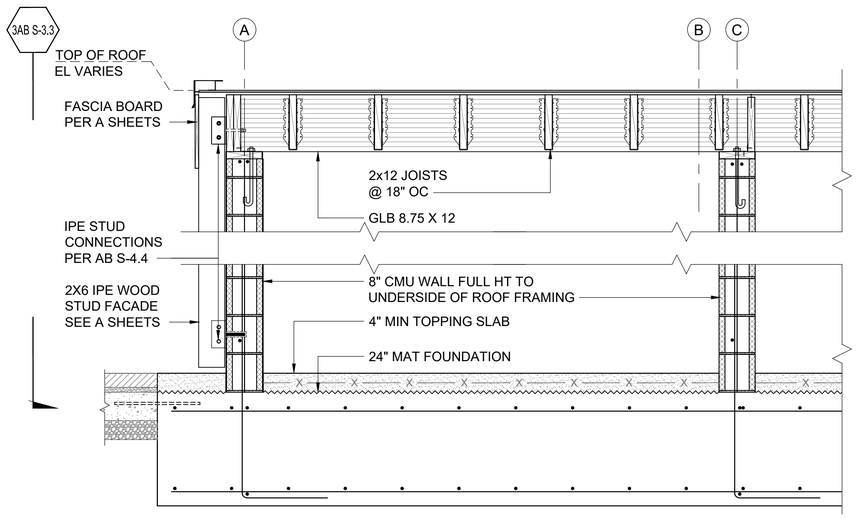
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SHEET NUMBER AB S-3.2

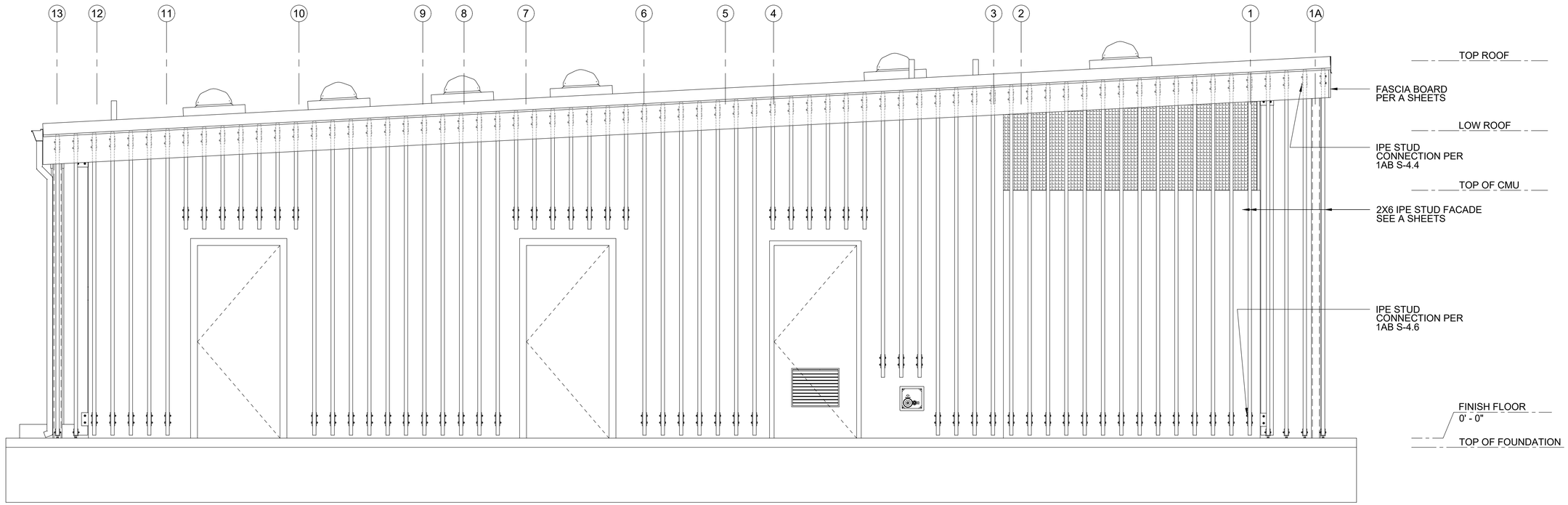
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1AB S-3.3 / AB S-3.3 **CEILING INSTALLATION CONNECTION TO ROOF FRAMING**
SCALE: 3/4" = 1'-0"



2AB S-3.3 / AB S-3.3 **WOOD STUD FACADE CONNECTION DETAIL**
SCALE: 3/4" = 1'-0"



3AB S-3.3 / 2AB S-3.3 **WOOD STUD FACADE CONNECTION AT NORTH ELEVATION**
SCALE: 1/2" = 1'-0"

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

SCALE: AS SHOWN
DRAWN: B. DAVIS
CHECKED: L. BECARIA
DESIGNED: B. WILLIAMS/E. CHANG
ENGINEER / ARCHITECT

CHIEF OF DESIGN
ASSISTANT CHIEF HARBOR ENGINEER
CHIEF HARBOR ENGINEER DATE

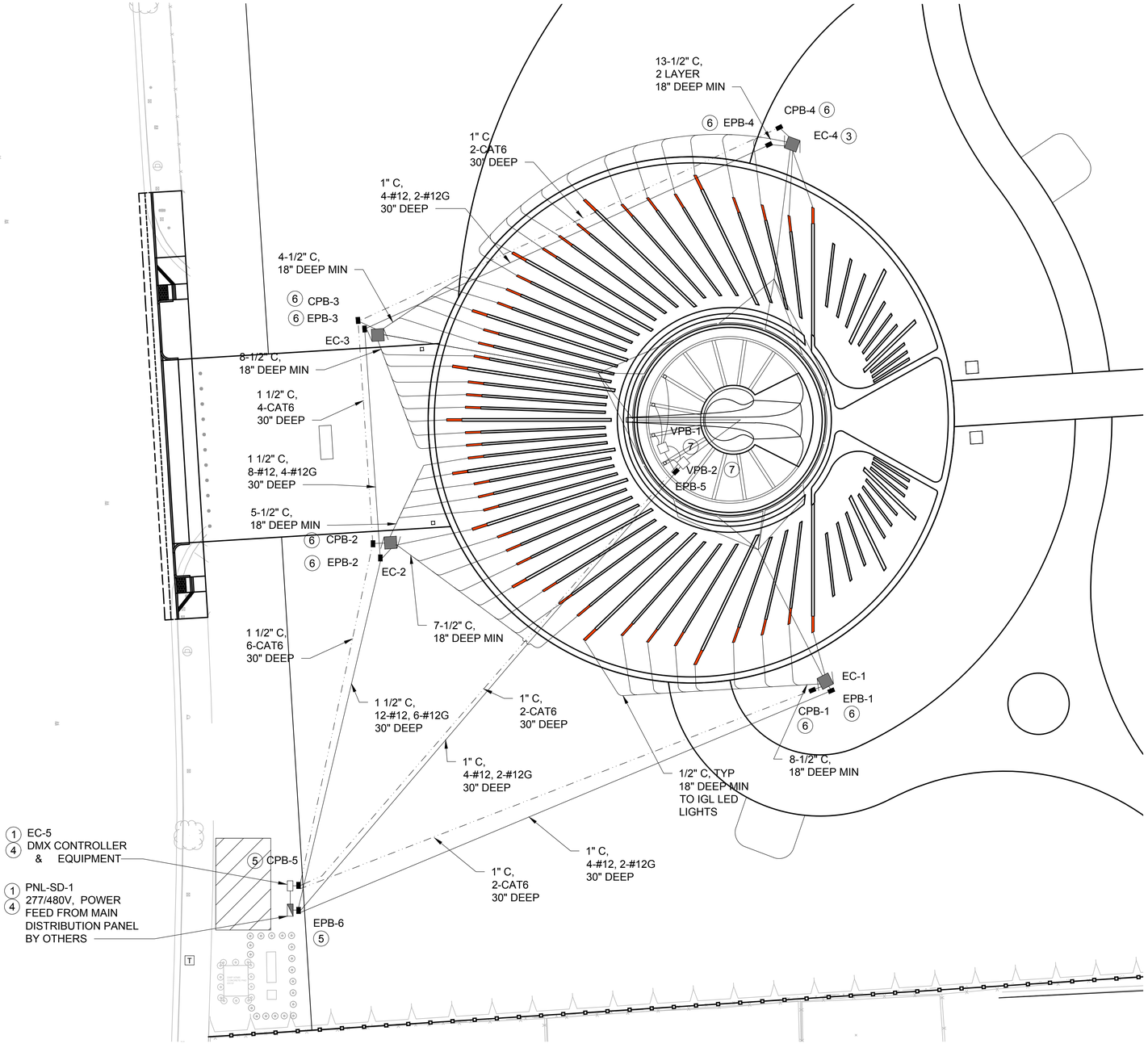
AVALON PROMENADE GATEWAY

ROOF FRAMING DETAILS

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472
SHEET NUMBER AB S-3.3

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POLAPRO1_040323_BWD



CONSTRUCTION NOTES

1. INSTALL UNMETERED SERVICE PEDESTAL PANEL 277/480V, 3PH, 4W, 100A,. MYERS MODEL USPDU-M3100-330C OR EQ.
2. INSTALL NEMA 3R DMX CONTROLLER & EQUIPMENT CABINET, MYERS USPU-41 OR EQ. INCLUDE DIN RAIL FOR EQUIPMENT MOUNTING.
3. INSTALL NEMA 3R VENTED LED DRIVER PEDESTAL CABINET, DUAL ACCESS DOOR WITH DIN RAIL FOR LED DRIVER MOUNTING
4. CONSTRUCT PEDESTAL CABINET FOUNDATION PER DETAIL 1E-08 2E-08
5. CONSTRUCT HT1730 TRAFFIC PULL BOX WITH METAL COVER, TAMPER PROOF BOLTS, JENSEN PRECAST OR EQ.
6. CONSTRUCT HT1017 TRAFFIC PULL BOX WITH METAL COVER , TAMPER PROOF BOLTS, JENSEN PRECAST OR EQ.
7. INSTALL 18 X 16 X 8 VENTED W.P. PULL BOX FOR LED DRIVER ENCLOSURE WITH POD LOCK PROVISION PER L-COM GLOBAL CONNECTIVITY MODEL: NB181609-00V OR EQ.

N

20' 0'-0" 20' 40'

SCALE: 1" = 20'

100% CONSTRUCTION DOCUMENT

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

LIN Consulting, Inc.
Traffic, Civil, and Electrical Consulting Engineers
21660 COPLEY DRIVE, SUITE 270
DIAMOND BAR, CALIFORNIA 91765
TEL: (909)396-6850 FAX: (909)396-8150

SCALE:
DRAWN: VICKY JONGJITSAMRIT
CHECKED: REY GALURA
DESIGNED: VICKY JONGJITSAMRIT
ENGINEER / ARCHITECT

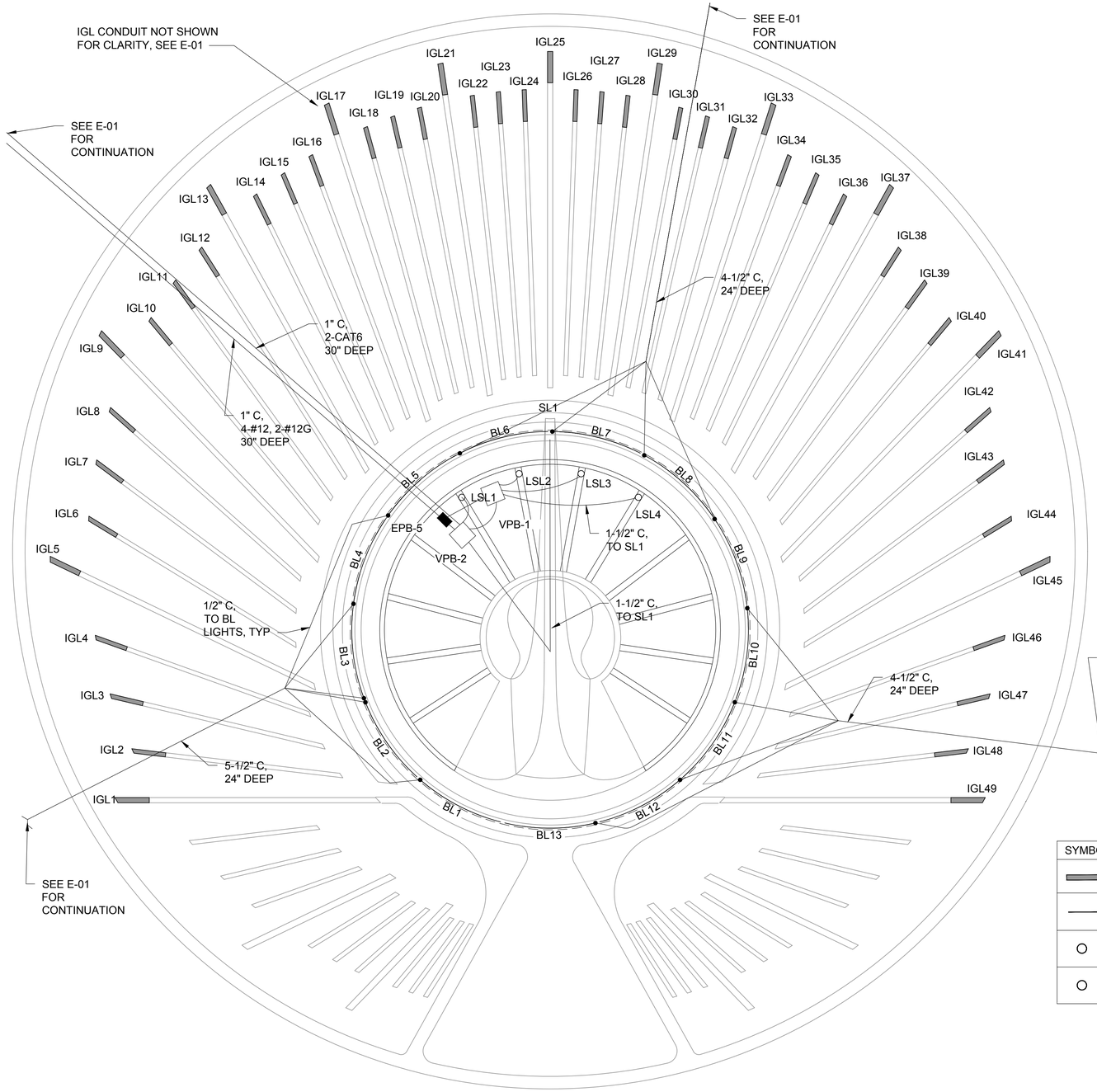
AVALON PROMENADE

SUNDIAL SITE LIGHTING PLAN

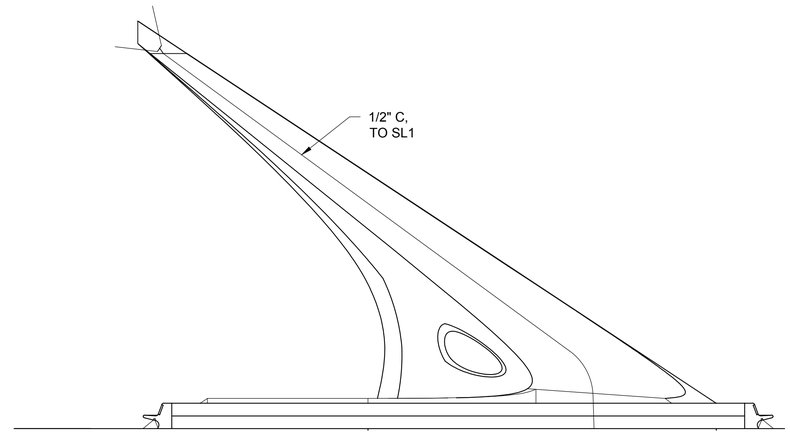
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472
SHEET NUMBER E-01

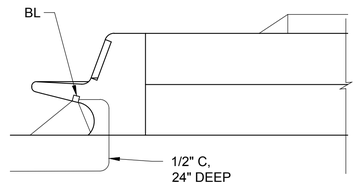
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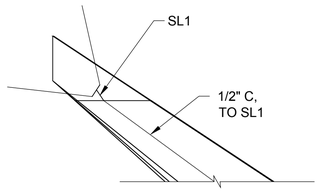


4-EE02 / EE-02 ENLARGED PLAN
SCALE: 1" = 10'



1-EE02 / EE-02 SPOT LIGHT ELEVATION
SCALE: 1" = 8'





2-EE02 / EE-02 BENCH LIGHT MOUNTING
SCALE: 1" = 2'

3-EE02 / EE-02 SPOT LIGHT MOUNTING
SCALE: 1" = 4'

FIXTURE SCHEDULE

SYMBOL	NAME	TYPE	QUANTITY	LENGTH	WATTAGE	VOLTAGE	MODEL NO.	MANUFACTURER
▭	IGL	IN GRADE LINEAR FLOOD	49	4 FT	7.6 W/FT	277	TRIDENT OUTDOOR * 455-407-FH-SO-RGBWSO-99-02	LUMINII
—	BL	FLEXIBLE LED STRIP MOUNTED TO UNDERSIDE OF BENCH	13	16 FT	95.9 W	277	KBL-F-V-SP-RGBW30K-IBPF-IEC-16*	LUMINII
○	LSL	LANDSCAPE SPOT LIGHT INTEGRATED INTO PLANTERS	4	13" x 6.5"	47.6 W	277	BLAST POWERCORE GEN5 RGBW*	COLOR KINETICS
○	SL	SPOT LIGHT INTEGRATED INTO GNOMON TIP	1	13" x 6.5"	47.6 W	277	BLAST POWERCORE GEN5 RGBW*	COLOR KINETICS

* OR EQUIVALENT

N

10' 0'-0" 10' 20'
SCALE: 1" = 10'

100% CONSTRUCTION DOCUMENT

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NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

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Traffic, Civil, and Electrical Consulting Engineers
21660 COPLEY DRIVE, SUITE 270
DIAMOND BAR, CALIFORNIA 91765
TEL:(909)396-6850 FAX:(909)396-8150

SCALE:
DRAWN: VICKY JONGJITSAMRIT
CHECKED: REY GALURA
DESIGNED: VICKY JONGJITSAMRIT
ENGINEER / ARCHITECT

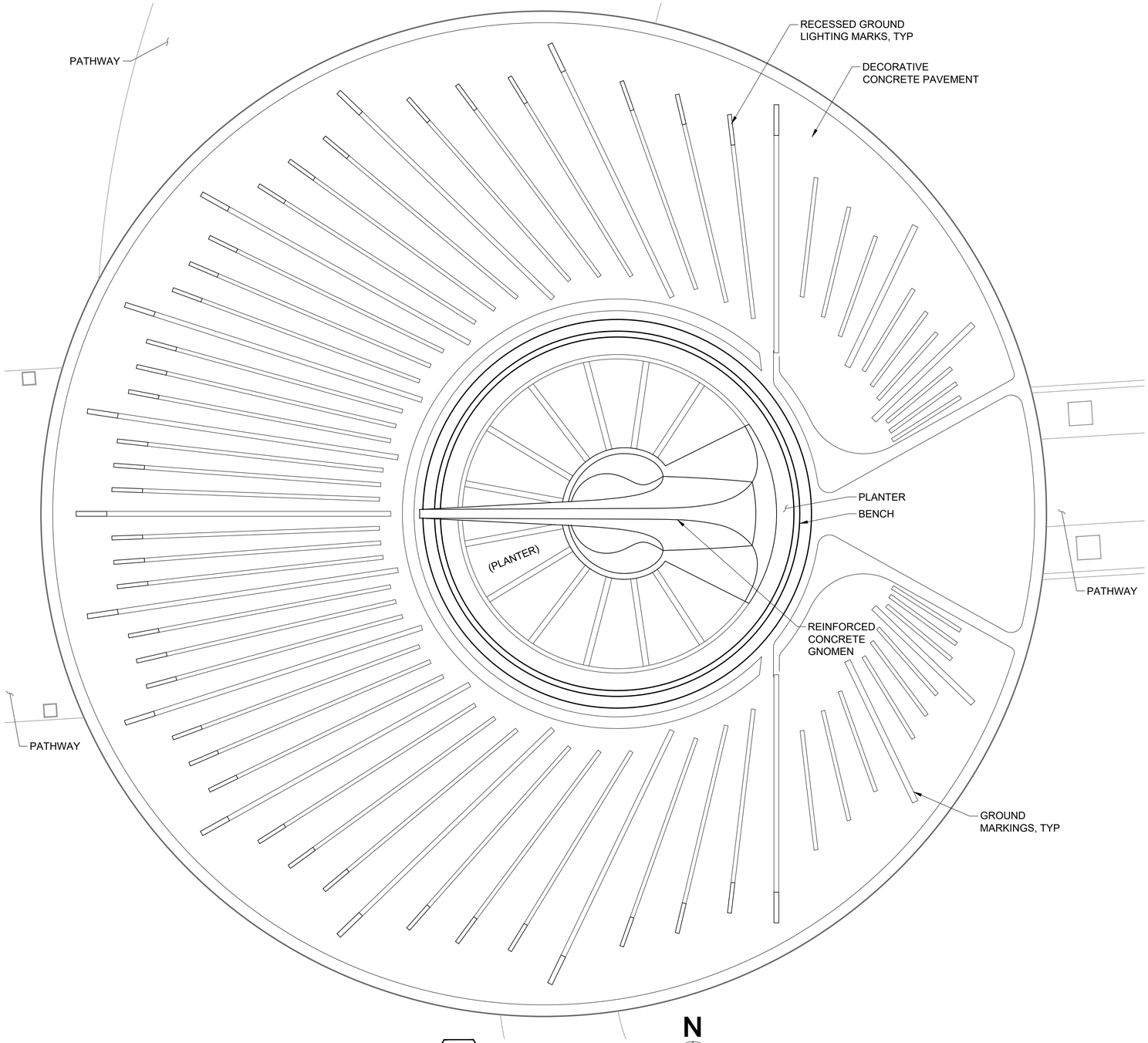
AVALON PROMENADE

SUNDIAL LIGHTING PLAN

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

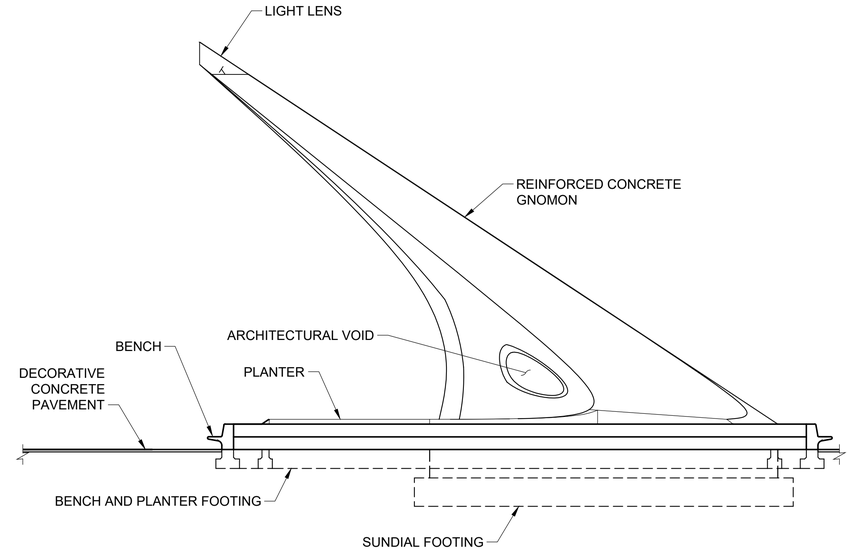
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SHEET NUMBER E-02

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DATE: Jan. 24, 2020 10:41 AM XREFS:XREF_PoLA_Border IMAGES:
POLAPRO1_102012_R.8



1S-202 / S-202 PLAN
SCALE: 1" = 10'-0"

NOTES:
1. REFER TO S-205 FOR REINFORCED CONCRETE GNOMAN.
2. REFER TO S-204 FOR SUNDIAL FOUNDATION DETAILS.
3. REFER TO SHEET S-212 FOR PLANTER DETAILS.
4. REFER TO SHEET S-213 FOR BENCH DETAILS.
5. REFER TO S-214 FOR DECORATIVE CONCRETE PAVEMENT DETAILS.
6. REFER TO S-215 FOR LIGHTING DETAILS.
7. REFER TO G, LD, LM, AND LP SHEETS FOR SITE GRADING, LANDSCAPING, AND FINISHED SURFACE MATERIALS NOT OTHERWISE REFERENCED.



2S-202 / S-202 ELEVATION
SCALE: 1 1/2" = 1'-0"

80% CONSTRUCTION DOCUMENT

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

DANIEL J FITZWILLIAM
No. 58937
Exp. 6/30/2025
CIVIL
STATE OF CALIFORNIA
TYLin
707 WILSHIRE BOULEVARD, SUITE 4900
LOS ANGELES, CALIFORNIA 90017
PHONE(213) 946-7960

SCALE:	AS NOTED
DRAWN:	R. ELWOOD
CHECKED:	
DESIGNED:	B. SOKOLOWSKI
	ENGINEER / ARCHITECT

AVALON PROMENADE

SUNDIAL GENERAL PLAN

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER	SHEET NUMBER
1-3472	S-201

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DATE: Jan. 24, 2020 10:41 AM XREFS:XREF_PoLA_Border IMAGES:
POLAPRD1_192012_R.B.

GENERAL NOTES

LOAD AND RESISTANCE FACTOR DESIGN:

DESIGN: CALIFORNIA BUILDING CODE 2022
(NON BUILDING STRUCTURE)

AVALON PEDESTRIAN BRIDGE DESIGN CRITERIA, DATED JULY 2018 WITH REVISIONS DATED MAY 2023

SEISMIC DESIGN: CALIFORNIA BUILDING CODE 2022
(NON BUILDING STRUCTURE)

DEAD LOAD: REINFORCED CONCRETE UNIT WEIGHT OF 150 POUNDS PER CUBIC FOOT.

LIVE LOADING: 200 POUND POINT LOAD PLACED TO MAXIMIZE EFFECT.

SEISMIC LOADING: SDC ARS ONLINE 2.0

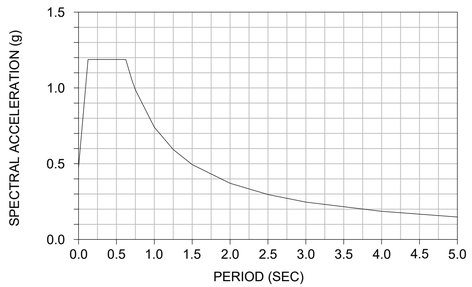
SOIL PROFILE:	V_S^{30} = 590 - 920 FT/SEC
MOMENT MAGNITUDE:	7.2
PEAK GROUND ACCELERATION:	0.569g

REINFORCED CONCRETE: f_y = 60 ksi, ASTM A706 GRADE 60
EPOXY COATED WHERE SPECIFICALLY NOTED
f'_c = 4.0 ksi
n = 8

HYDROLOGIC NOTES:

SEA LEVEL RISE (SLR) AND SCOUR WERE NOT CONSIDERED AS DESIGN CRITERIA.

LABC CURVE



CALTRANS STANDARD PLANS (DATED 2018)

A3A	ABBREVIATIONS (SHEET 1 OF 3)
A3B	ABBREVIATIONS (SHEET 2 OF 3)
A3C	ABBREVIATIONS (SHEET 3 OF 3)
A10A	LEGEND - LINES AND SYMBOLS (SHEET 1 OF 5)
A10B	LEGEND - LINES AND SYMBOLS (SHEET 2 OF 5)
A10C	LEGEND - LINES AND SYMBOLS (SHEET 3 OF 5)
A10D	LEGEND - LINES AND SYMBOLS (SHEET 4 OF 5)
A10E	LEGEND - LINES AND SYMBOLS (SHEET 5 OF 5)
A10F	LEGEND - SOIL (SHEET 1 OF 2)
A10G	LEGEND - SOIL (SHEET 2 OF 2)
A62B	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL BRIDGE
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL-BRIDGE

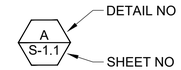
ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABUT	ABUTMENT
ACI	AMERICAN CONCRETE INSTITUTE
ACWS	ASPHALT CONCRETE WEARING SURFACE
ADA	AMERICANS WITH DISABILITIES ACT
ADDL	ADDITIONAL
&	AND
APPROX	APPROXIMATELY
ASTM	AMERICAN SOCIETY OF THE INTERNATIONAL ASSOCIATION FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BEG	BEGIN
BOF	BOTTOM OF FOOTING
BB	BEGIN BRIDGE
BC	BARE COPPER
BRG	BEARING
BK	BACK
BOT	BOTTOM
BVC	BEGIN VERTICAL CURVE
C	CONDUIT
CIP	CAST-IN-PLACE
CIDH	CAST-IN-DRILLED-HOLE
CJ	CONSTRUCTION JOINT
CJP	COMPLETE JOINT PENETRATION
℄	CENTERLINE
CLR	CLEAR
CONC	CONCRETE
CU	CUBIC
DEG, °	DEGREE
DIA, Ø	DIAMETER
DWG	DRAWING
DWGS	DRAWINGS
EA	EACH
EB	END BRIDGE
ED	EDITION
EF	EACH FACE
EJ	EXPANSION JOINT
EL, ELEV	ELEVATION
EQ	EQUAL
EVC	END VERTICAL CURVE
EW	EACH WAY
EXTG, EXIST	EXISTING
EXP	EXPANSION
F	FAHRENHEIT
FF	FRONT FACE
FIX	FIXED
FG	FINISHED GROUND
FA	FACTOR OF SAFETY
FT	FEET
FTG	FOOTING
FY	YIELD STRESS
G	GROUND
GALV	GALVANIZED
GR	GRADE
GRS	GALVANIZED RIGID STEEL
HS	HIGH STRENGTH
HORIZ	HORIZONTALLY
ID	INSIDE DIAMETER
IN	INCH
K	KIPS
ksi	KIPS PER SQUARE INCH
LB, LBS	POUND, POUNDS
LF	LINEAR FEET
LIN	LINEAR
LOL	LAYOUT LINE
LONG	LONGITUDINAL
LT	LEFT
LRFD	LOAD AND RESISTANCE FACTOR DESIGN
MAX	MAXIMUM
MIN	MINIMUM
MR	MOVEMENT RATING
NF	NEAR FACE
NO , #	NUMBER
NOS	NUMBERS
OD	OUTSIDE DIAMETER
OG	ORIGINAL GROUND
₹	PLATE
PIN	PINNED
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
pcf	POUNDS PER CUBIC FOOT
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PROP	PROPOSED
psf	POUNDS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
PT	POINT
PVT	POINT OF VERTICAL TANGENT
R	RADIUS
REINF	REINFORCING
RT	RIGHT
REQ'D	REQUIRED
RF	REAR FACE
SHLDR	SHOULDER
SIM	SIMILAR
SL	SLOPE
SPA	SPACES
STA	STATION
STD	STANDARD
STIFF	STIFFENER
SHT	SHEET
SS	STAINLESS STEEL
SQ	SQUARE
SYMM	SYMMETRIC
TB	TRANSVERSE BEAM
THK	THICK
TOT	TOTAL
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VD	VOLTAGE DROP
VC	VERTICAL CURVE
VERT	VERTICAL
W/	WITH
WP	WORK POINT
WW	WINGWALL
YD	YARD

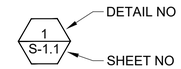
NOTE:
PROJECT ABBREVIATIONS SHOWN HERE TAKE PRECEDENCE OVER ABBREVIATIONS FROM CALTRANS STANDARD PLANS.

PLAN SYMBOLS

SECTION IDENTIFICATION



DETAIL IDENTIFICATION



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NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

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NOT FOR CONSTRUCTION
REGISTERED PROFESSIONAL ENGINEER
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SCALE: AS NOTED
DRAWN: R. ELWOOD
CHECKED:
DESIGNED: B. SOKOLOWSKI
ENGINEER / ARCHITECT

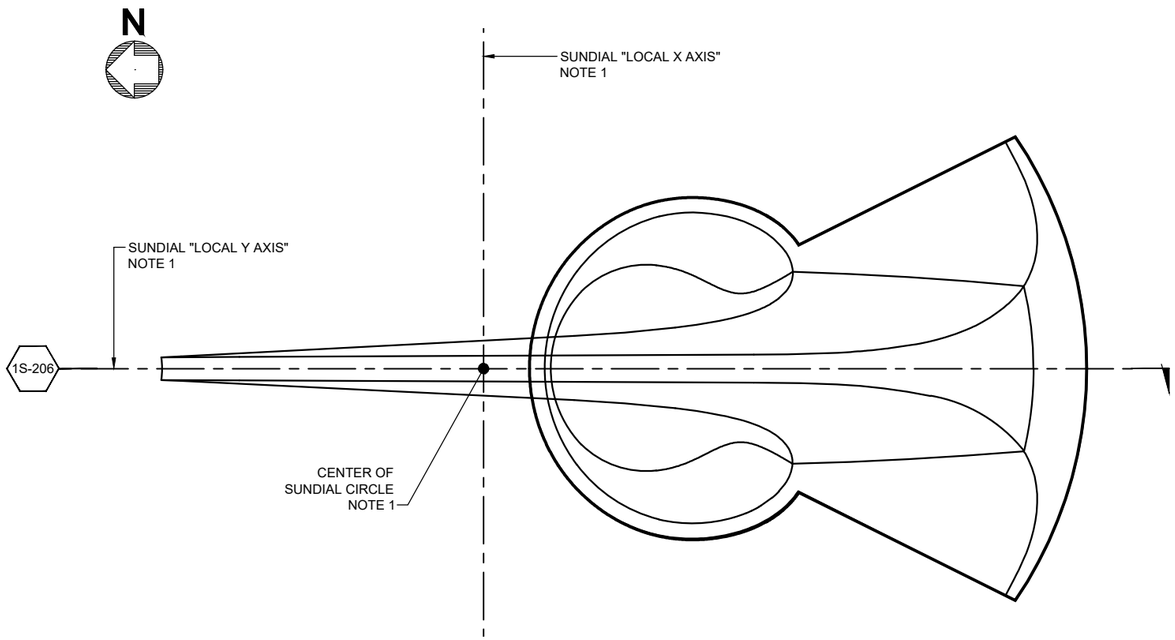
AVALON PROMENADE

GENERAL NOTES

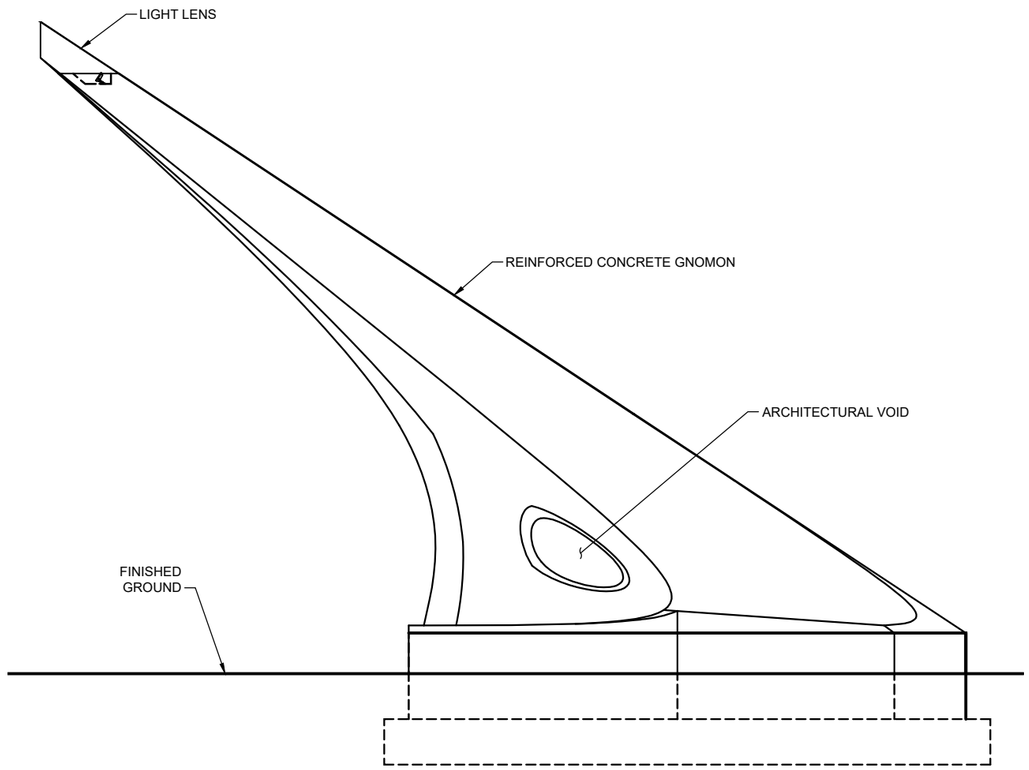
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472
SHEET NUMBER S-202

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DATE: Jan. 24, 2020 10:41 AM XREFS:XREF_PoLA_Border IMAGES:
POLAPRO1_102012_R.B



1S-205 / S-205 GNOMON PLAN
SCALE: 1" = 5'-0"



2S-205 / S-205 GNOMON ELEVATION
SCALE: 1" = 5'-0"

NOTES:

1. REFER TO S-203 FOR SUNDIAL LAYOUT.
2. REFER TO S-204 FOR SUNDIAL FOUNDATION DETAILS.
3. REFER TO SHEET S-212 FOR PLANTER DETAILS.
4. REFER TO S-214 FOR DECORATIVE CONCRETE PAVEMENT DETAILS.
5. REFER TO S-215 FOR LIGHTING DETAILS.
6. REFER TO G, LD, LM, AND LP SHEETS FOR SITE GRADING, LANDSCAPING, AND FINISHED SURFACE MATERIALS NOT OTHERWISE REFERENCED.

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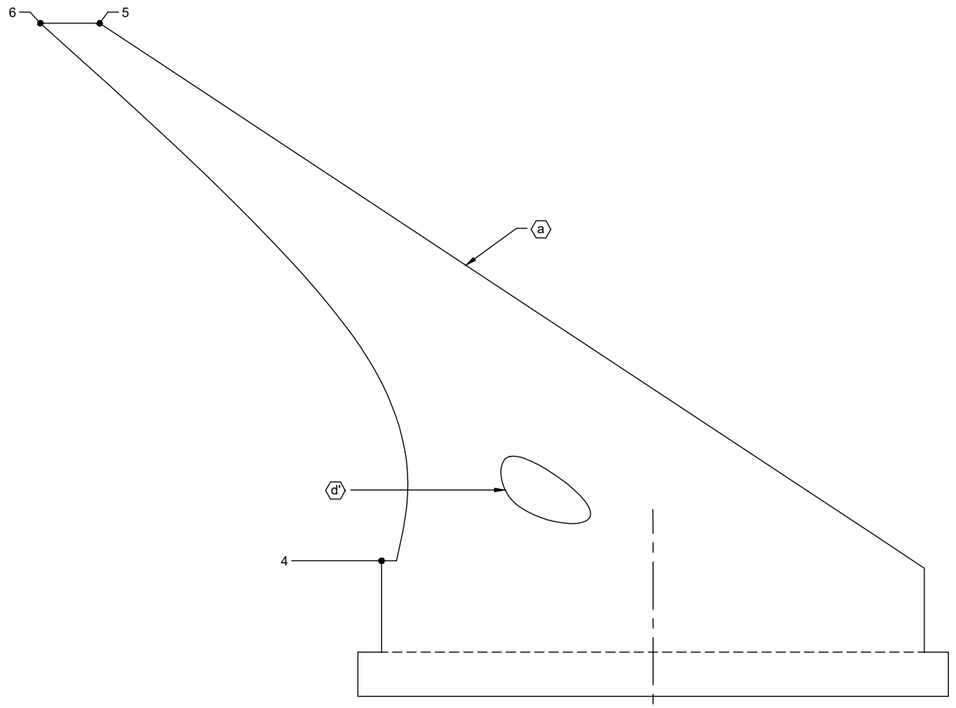
AVALON PROMENADE

SUNDIAL GEOMETRY 1

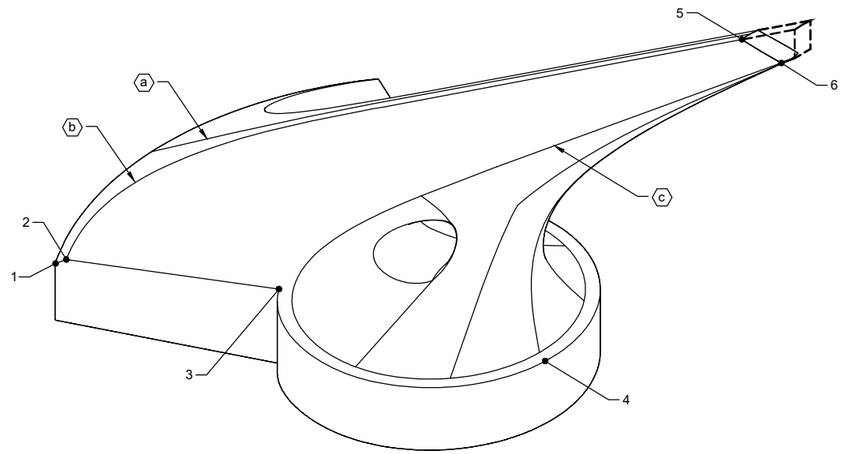
THE PORT OF LOS ANGELES
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425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472
SHEET NUMBER S-205

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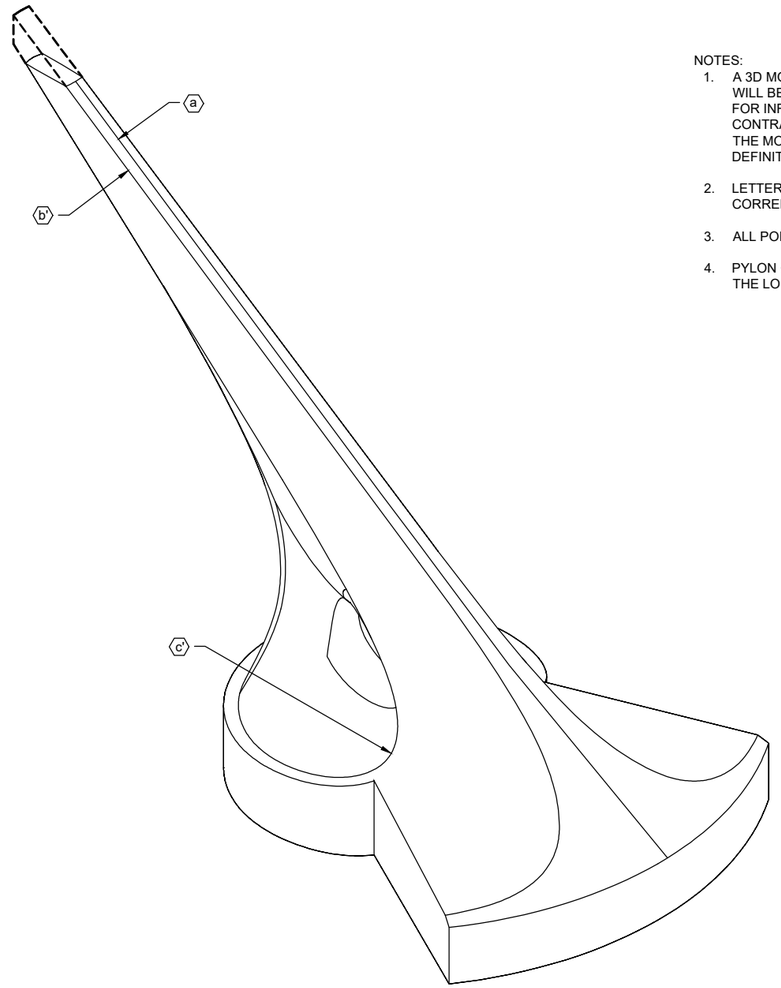
1S-205 / S-206 SECTION
SCALE: NTS



2S-206 / S-206 GNOMEN ISOMETRIC FRONT
SCALE: NTS

POINT #	LOCAL COORDINATES		
	X	Y	ELEV.
1	15.30	-35.09	16.93
2	14.96	-34.41	17.43
3	8.18	-20.80	18.40
4	0.00	-3.03	17.43
5	0.81	19.96	53.85
6	0.77	16.11	53.85

NOTES:
1. A 3D MODEL OF THE SUNDIAL GEOMETRY WILL BE PROVIDED TO THE CONTRACTOR FOR INFORMATIONAL USE. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THE MODEL ADHERES TO THE GEOMETRIC DEFINITIONS IN THESE PLANS PRIOR TO USE.
2. LETTERED EDGES ARE LABELED TO AID IN CORRELATING BETWEEN DETAILS ONLY.
3. ALL POINT COORDINATES ARE FEET.
4. PYLON GEOMETRY IS SYMMETRIC ACROSS THE LOCAL Y AXIS.



3S-206 / S-206 GNOMEN ISOMETRIC BACK
SCALE: NTS

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SCALE: AS NOTED
DRAWN: R. ELWOOD
CHECKED:
DESIGNED: B. SOKOLOWSKI
ENGINEER / ARCHITECT

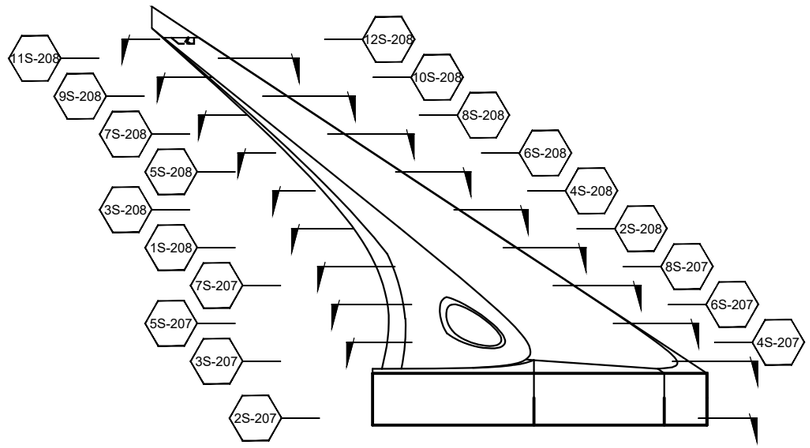
AVALON PROMENADE

SUNDIAL GEOMETRY 2

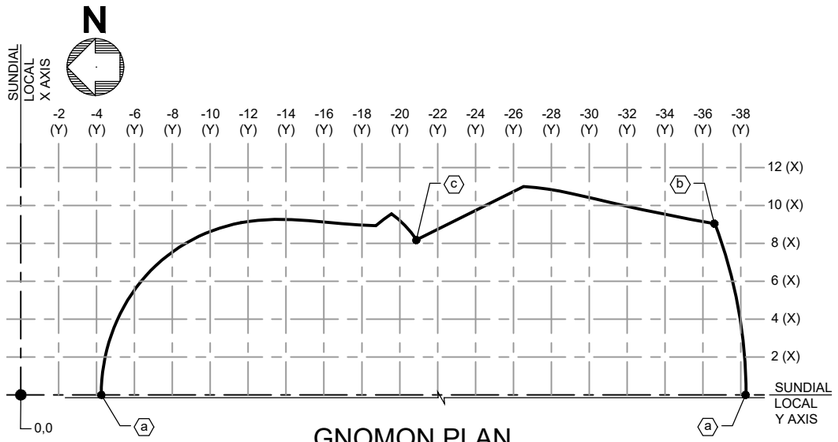
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3472
SHEET NUMBER: S-206

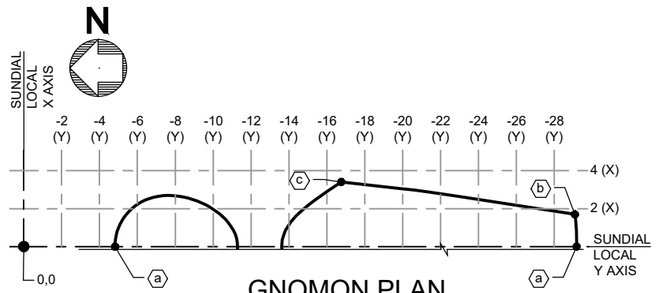
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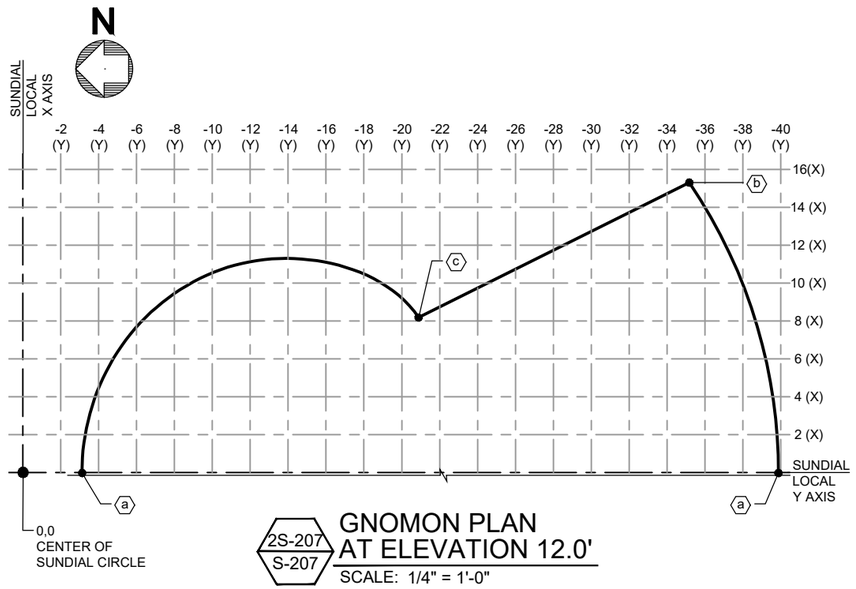
1S-207 / S-207 GNOMEN ELEVATION
SCALE: 1/8" = 1'-0"



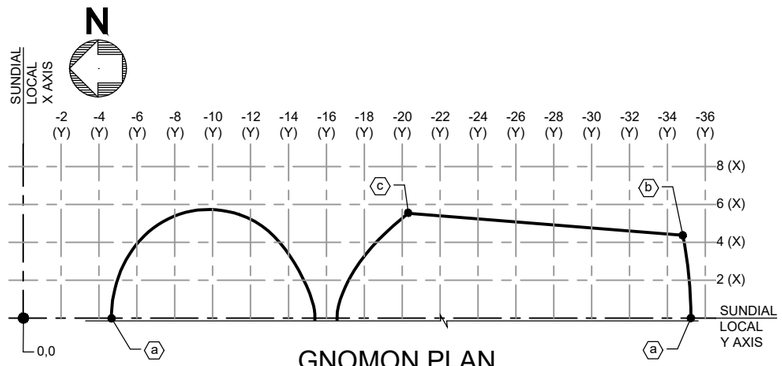
3S-207 / S-207 GNOMON PLAN AT ELEVATION 18.0'
SCALE: 1/4" = 1'-0"



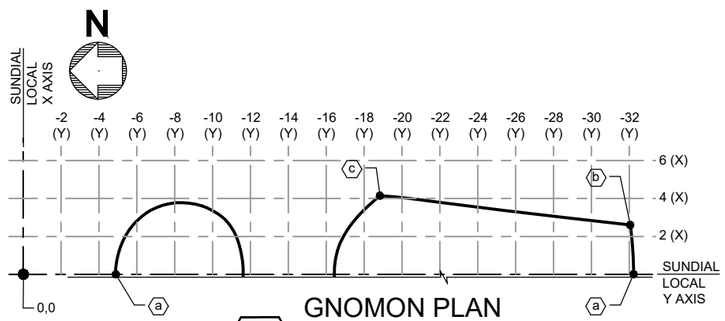
6S-207 / S-207 GNOMON PLAN AT ELEVATION 24.0'
SCALE: 1/4" = 1'-0"



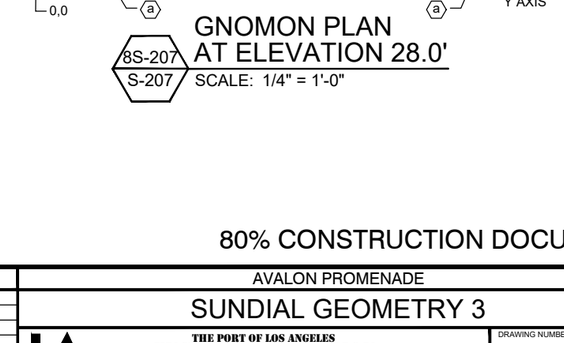
2S-207 / S-207 GNOMON PLAN AT ELEVATION 12.0'
SCALE: 1/4" = 1'-0"



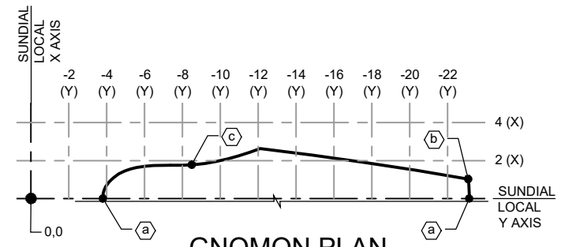
4S-207 / S-207 GNOMON PLAN AT ELEVATION 20.0'
SCALE: 1/4" = 1'-0"



5S-207 / S-207 GNOMON PLAN AT ELEVATION 22.0'
SCALE: 1/4" = 1'-0"



7S-207 / S-207 GNOMON PLAN AT ELEVATION 26.0'
SCALE: 1/4" = 1'-0"



8S-207 / S-207 GNOMON PLAN AT ELEVATION 28.0'
SCALE: 1/4" = 1'-0"

NOTES:

1. ALL GNOMEN GEOMETRY SYMMETRIC ABOUT SUNDIAL LOCAL Y AXIS.
2. REFER TO S-203 FOR SUNDIAL LOCAL COORDINATES.

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NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

DANIEL J FITZWILLIAM, No. 58937, Exp. 6/30/2025, CIVIL, STATE OF CALIFORNIA — NOT FOR CONSTRUCTION

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PHONE(213) 946-7960

SCALE: AS NOTED
DRAWN: R. ELWOOD
CHECKED:
DESIGNED: B. SOKOLOWSKI
ENGINEER / ARCHITECT

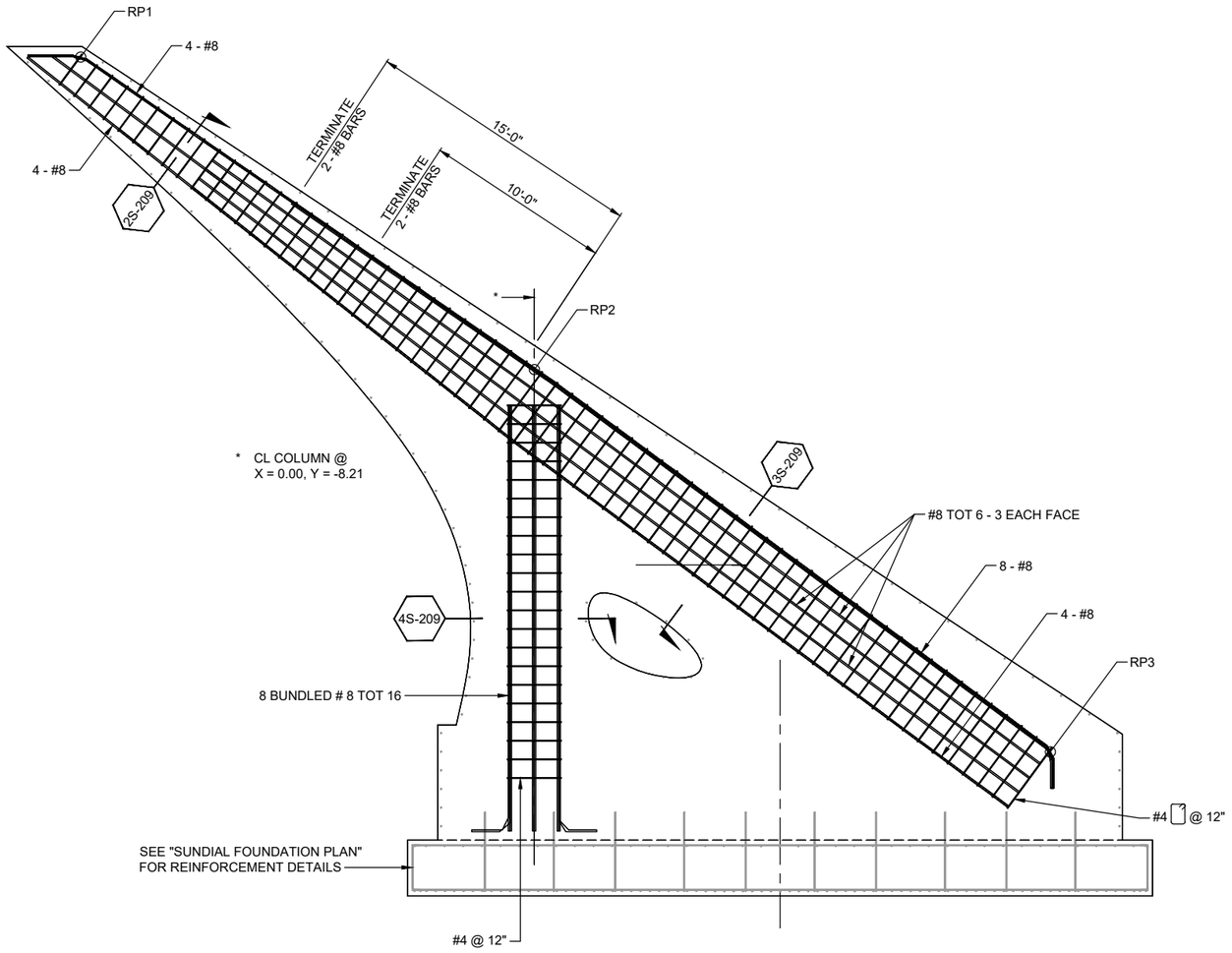
AVALON PROMENADE

SUNDIAL GEOMETRY 3

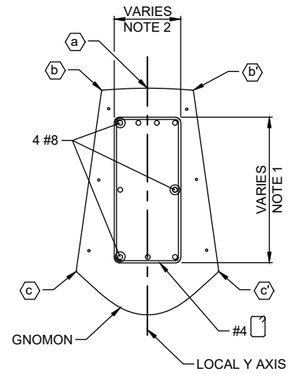
THE PORT OF LOS ANGELES
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425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3472
SHEET NUMBER: S-207

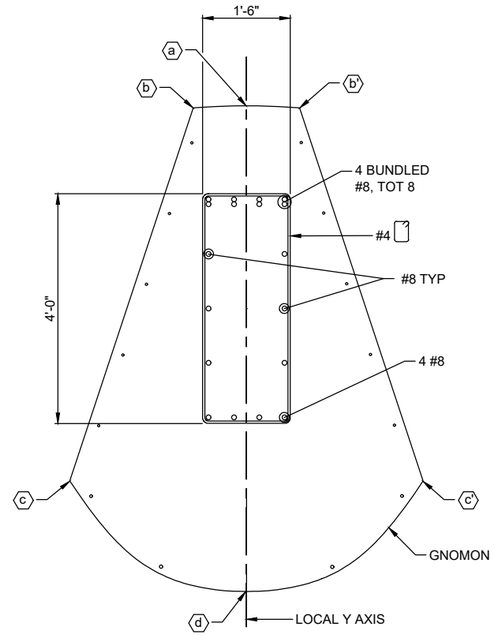
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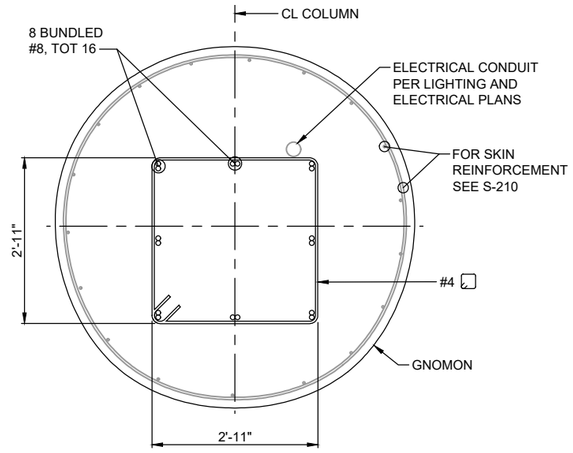
1S-209 / S-209 **SECTION**
SCALE: 1/4" = 1'-0"
PRIMARY REINFORCEMENT



2S-209 / S-209 **SECTION**
SCALE: 3/4" = 1'-0"



3S-209 / S-209 **SECTION**
SCALE: 3/4" = 1'-0"



4S-209 / S-209 **SECTION**
SCALE: 3/4" = 1'-0"

POINT #	X	Y	Z
RP1	0.00	16.15	53.46
RP2	0.00	-9.40	35.84
RP3	0.00	-36.00	16.19

NOTES:
1. BEAM DEPT VARIES LINEARLY IN UPPER GNOMON FROM 48" AT CL COLUMN TO 24" AT GNOMON TOP.
2. BEAM WIDTH VARIES LINEARLY IN UPPER GNOMON FROM 18" AT CL COLUMN TO 12" AT GNOMON TOP.
3. FOR SKIN REINFORCEMENT SEE S-210

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REGISTERED PROFESSIONAL ENGINEER — DANIEL J FITZWILLIAM — No. 58937 — Exp. 6/30/2025 — CIVIL — STATE OF CALIFORNIA

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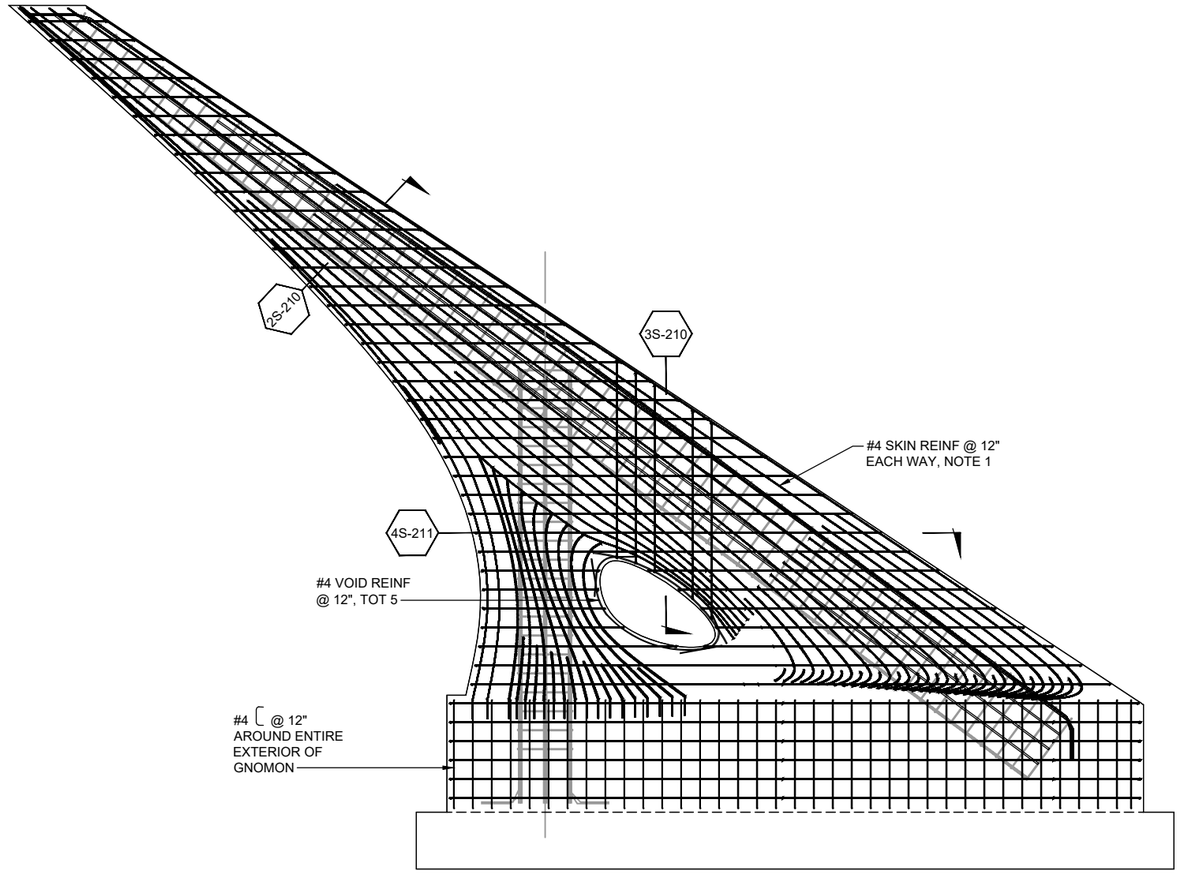
AVALON PROMENADE

SUNDIAL DETAILS 1

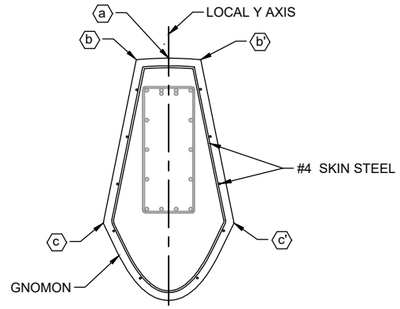
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3472
SHEET NUMBER: S-209

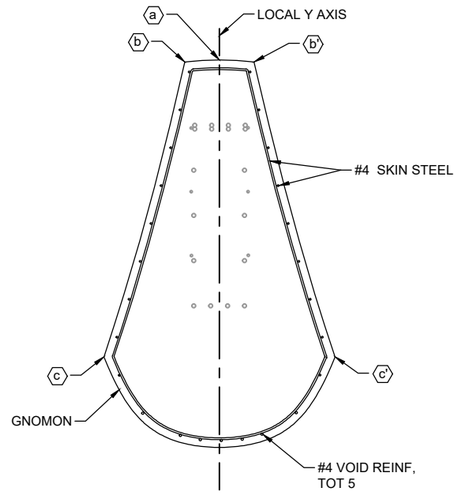
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POLAPRO1_100810_R.B.



1S-210 / S-210 SECTION
SCALE: 1/4" = 1'-0"
SKIN REINFORCEMENT



2S-210 / S-210 SECTION
SCALE: 3/4" = 1'-0"



3S-210 / S-210 SECTION
SCALE: 3/4" = 1'-0"

NOTES:
1. SKIN REINFORCEMENT MAY BE PROVIDED BY SMALLER BARS OR WELDED WIRE MESH IF AN EQUIVALENT AMOUT OF STEEL IS PROVIDED. ALTERNATIVES SHALL BE APPROVED BY THE ENGINEER OF RECORD PRIOR CREATION OF INTEGRATED 3D SHOP DRAWINGS.

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NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

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SCALE: AS NOTED
DRAWN: R. ELWOOD
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DESIGNED: B. SOKOLOWSKI
ENGINEER / ARCHITECT

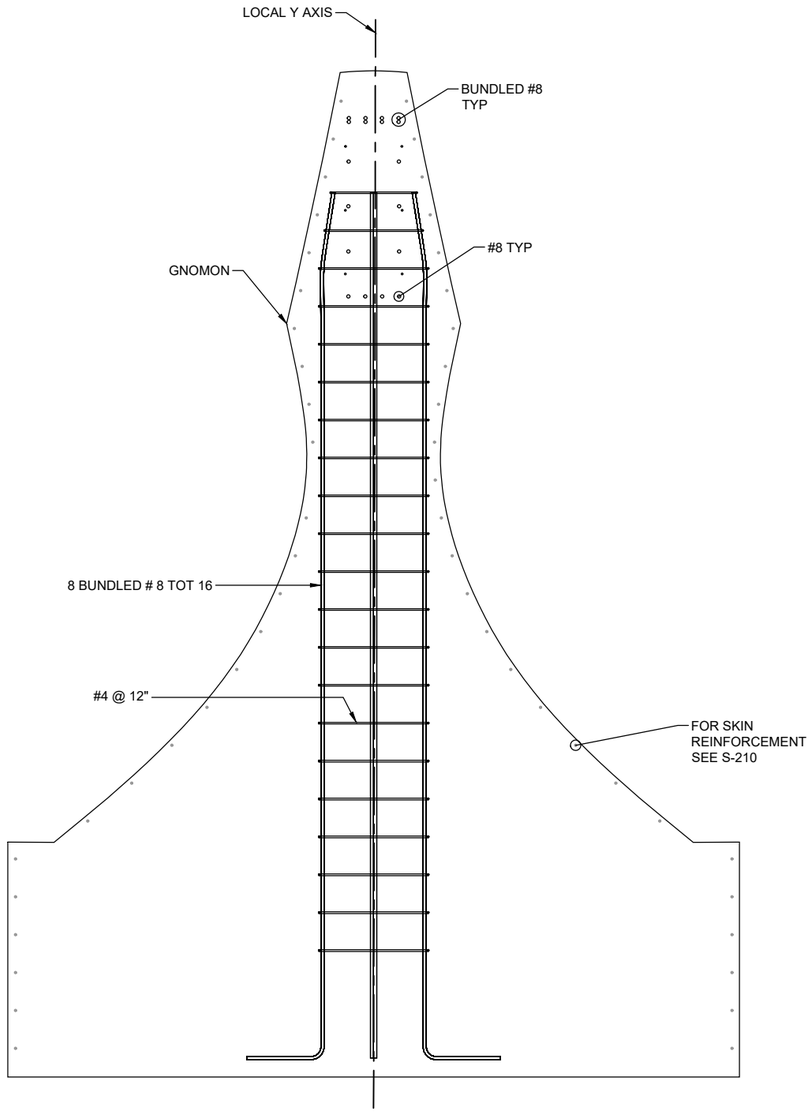
AVALON PROMENADE

SUNDIAL DETAILS 2

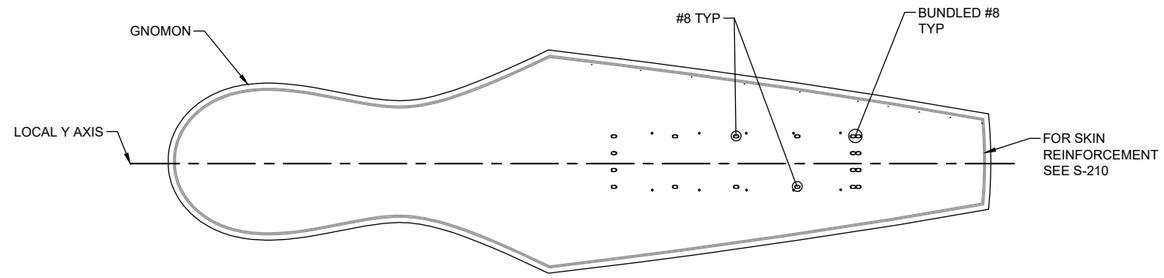
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3472
SHEET NUMBER: S-210

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PDLAPRD1_16/20/12_R.B.



1S-211 / S-211 SECTION
SCALE: 1/2"= 1'-0"



4S-210 / S-211 SECTION
SCALE: 1/2" = 1'-0"

80% CONSTRUCTION DOCUMENT

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

NO.	DATE	DRAWN	REVISIONS -	CHK'D	APP'D

REGISTERED PROFESSIONAL ENGINEER
DANIEL J FITZWILLIAM
No. 58937
Exp. 6/30/2025
CIVIL
STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

TYLin
707 WILSHIRE BOULEVARD, SUITE 4900
LOS ANGELES, CALIFORNIA 90017
PHONE(213) 946-7960

SCALE: AS NOTED
DRAWN: R. ELWOOD
CHECKED:
DESIGNED: B. SOKOLOWSKI
ENGINEER / ARCHITECT

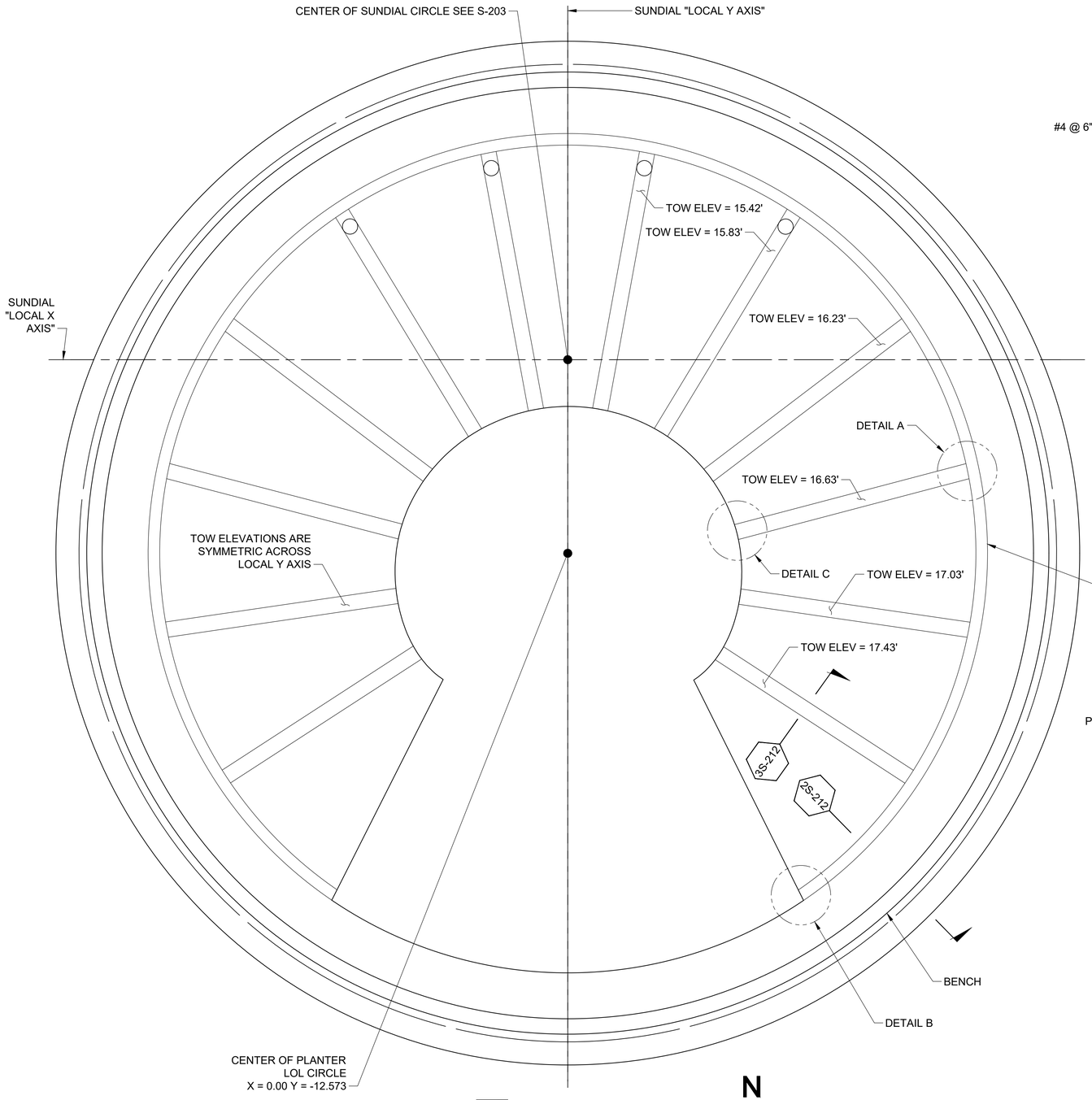
AVALON PROMENADE

SUNDIAL DETAILS 3

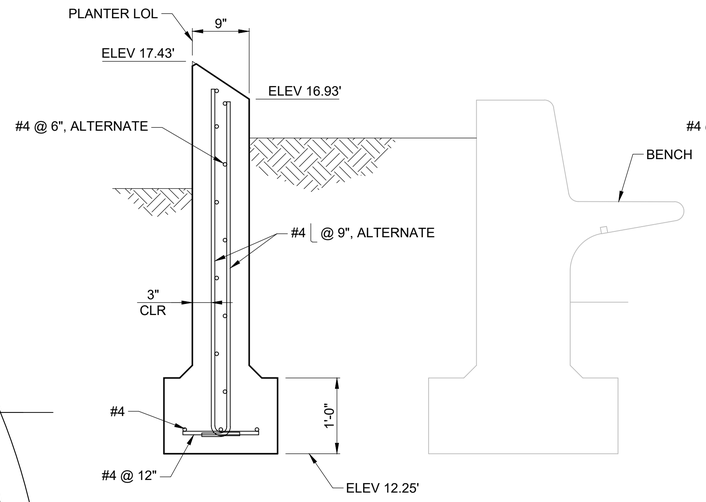
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER 1-3472
SHEET NUMBER S-211

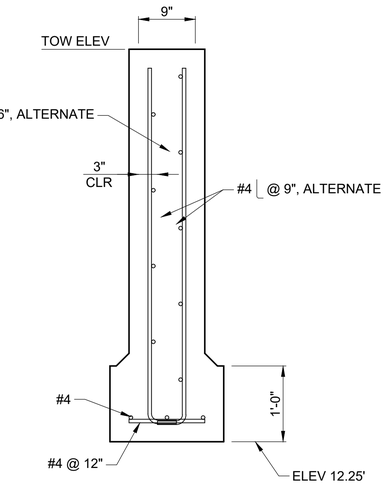
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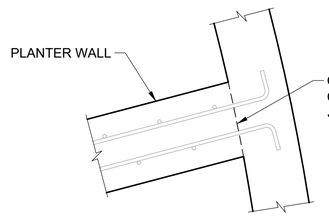
1S-212 / S-212 PLANTER PLAN
SCALE: 1/4" = 1'-0"



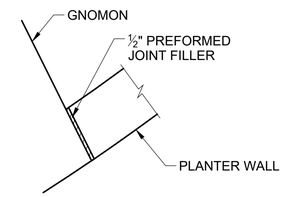
2S-212 / S-212 BENCH SECTION
SCALE: 1" = 1'-0"



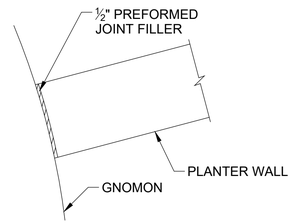
3S-212 / S-212 BENCH SECTION
SCALE: 1" = 1'-0"



4S-212 / S-212 DETAIL A
SCALE: 1" = 1'-0"



5S-212 / S-212 DETAIL B
SCALE: 1" = 1'-0"



6S-212 / S-212 DETAIL C
SCALE: 1" = 1'-0"

NOTES:
1. BARS SHALL BE PLACED RADIALLY SO THAT THE MAXIMUM SPACING BETWEEN BARS ON THE OUTSIDE OF CURVE IS THE SPACING SHOWN.
2. COORDINATES SHOWN FOR CENTER OF PLANTER LOL CIRCLE ARE IN TEH LOCAL COORDINATE SYSTEM DEFINED ON S-202.
3. FOR REINFORCED CONCRETE GNOMON DETAILS, SEE SHEET S-205.
4. FOR BENCH DETAILS, SEE SHEET S-213.

80% CONSTRUCTION DOCUMENT

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REGISTERED PROFESSIONAL ENGINEER
CONSTRUCTION
DANIEL J FITZWILLIAM
No. 58937
Exp. 6/30/2025
CIVIL
STATE OF CALIFORNIA

TYLin
707 WILSHIRE BOULEVARD, SUITE 4900
LOS ANGELES, CALIFORNIA 90017
PHONE(213) 946-7960

SCALE: AS NOTED
DRAWN: R. ELWOOD
CHECKED:
DESIGNED: B. SOKOLOWSKI
ENGINEER / ARCHITECT

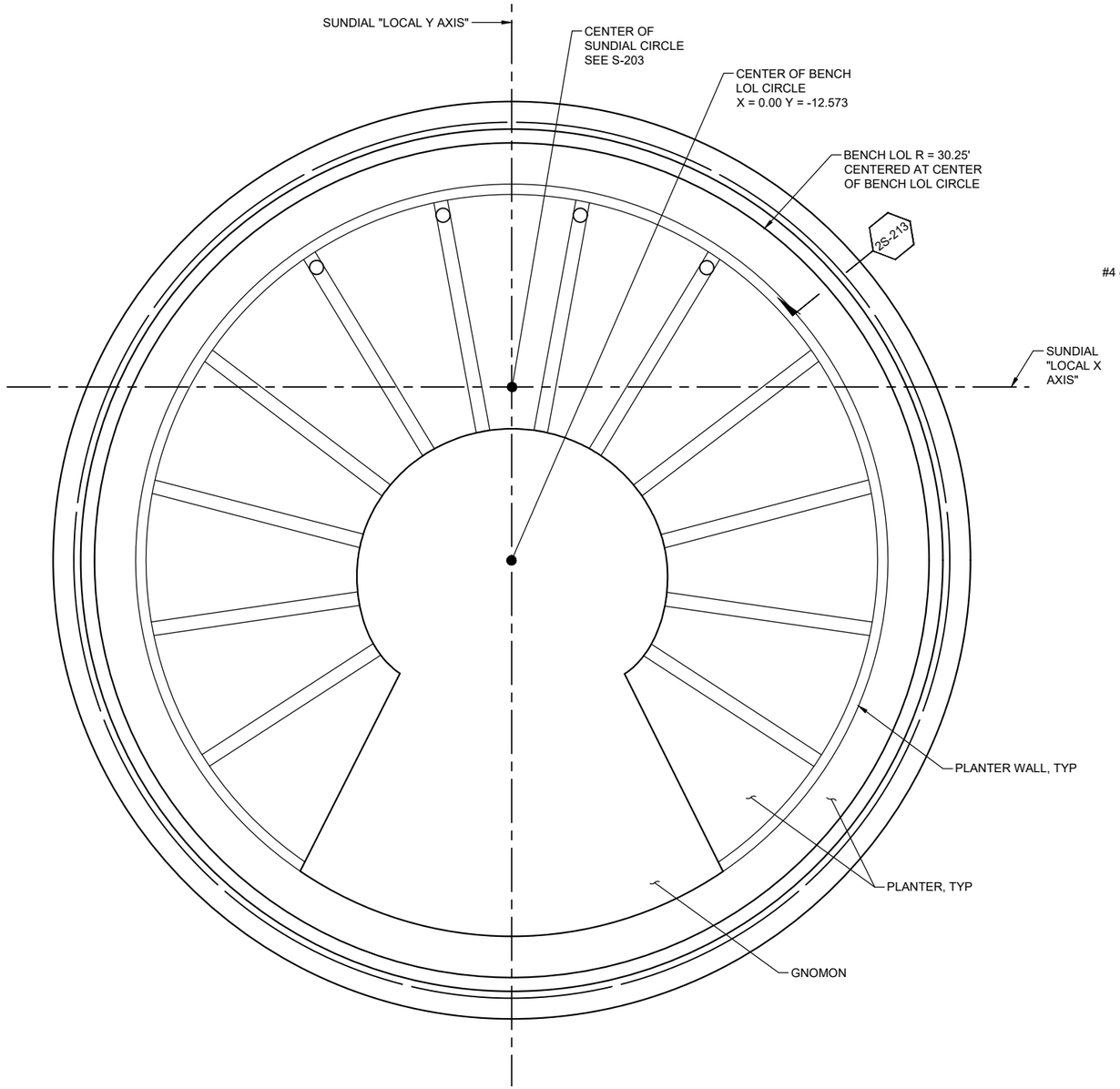
AVALON PROMENADE

PLANTER LAYOUT

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

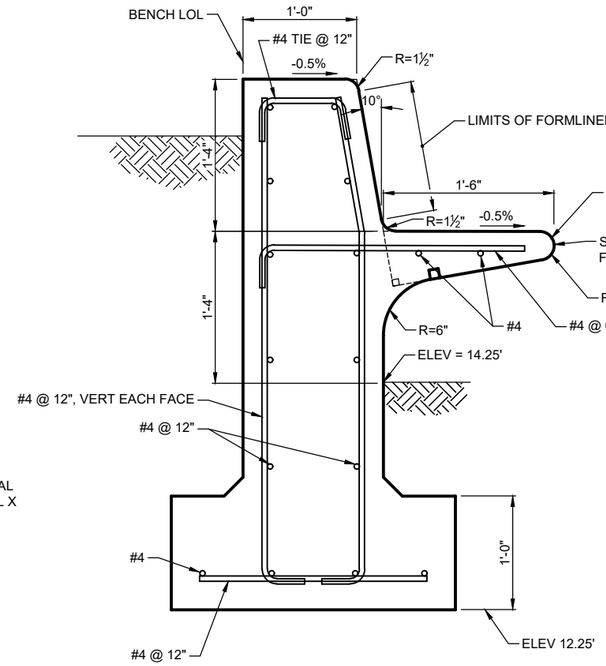
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SHEET NUMBER: S-212

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DATE: Jan. 24, 2020 10:41 AM XREFS:XREF_PoLA_Border IMAGES:
POLAPR01_102012_R.B



1S-213 / S-213 BENCH PLAN
SCALE: 1" = 5'-0"

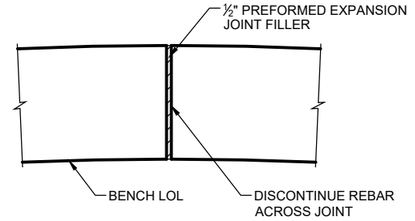
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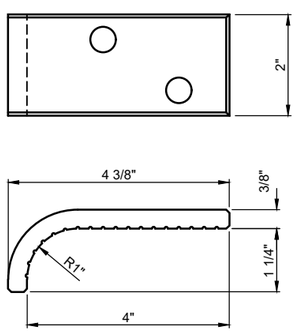
2S-213 / S-213 BENCH SECTION
SCALE: 1 1/2" = 1'-0"

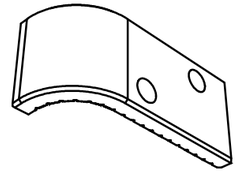
NOTES:

1. PLACE TRANSVERSE REINFORCEMENT RADIALLY SO THAT THE MAXIMUM DIMENSION AT OUTSIDE OF BENCH IS THE DIMENSION GIVEN.
2. PLACE EXPANSION JOINTS AT EACH LOCATION THE LOCAL Y AXIS CROSSES THE BENCH LAYOUT LINE AND HALFWAY BETWEEN EACH OF THOSE. 4 TOTAL.
3. FORMLINER SHALL BE FIZGERALD FORMLINERS 16914 WEATHERED PLANK 6" WIDE HEAVY GRAIN WOODEN PLANK OR APPROVED EQUAL.



3S-213 / S-213 EXPANSION JOINT DETAIL
SCALE: NTS





SKATE STOP NOTES:

MATERIAL:	6061T6 ALUMINUM
FINISH:	HARD TUMBLE TO REMOVE ALL MACHINED AND/OR CUT EDGES. TYPE II CLEAR ANODIZE OR HARD ANODIZE.
ANHORING:	TWO OFFSET THRU HOLES FOR SMART PINS PLUS. USE IN CONJUNCTION WITH TWO-PART EPOXY.
PRODUCT SPACING:	18" FROM END OF BENCH/WALL AND APPROXIMATELY 36" CENTERS.

4S-213 / S-213 SKATE STOP DETAIL
SCALE: NTS

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REGISTERED PROFESSIONAL ENGINEER
DANIEL J FITZWILLIAM
No. 58937
Exp. 6/30/2025
CIVIL
STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

TYLin
707 WILSHIRE BOULEVARD, SUITE 4900
LOS ANGELES, CALIFORNIA 90017
PHONE(213) 946-7960

SCALE: AS NOTED
DRAWN: R. ELWOOD
CHECKED:
DESIGNED: B. SOKOLOWSKI
ENGINEER / ARCHITECT

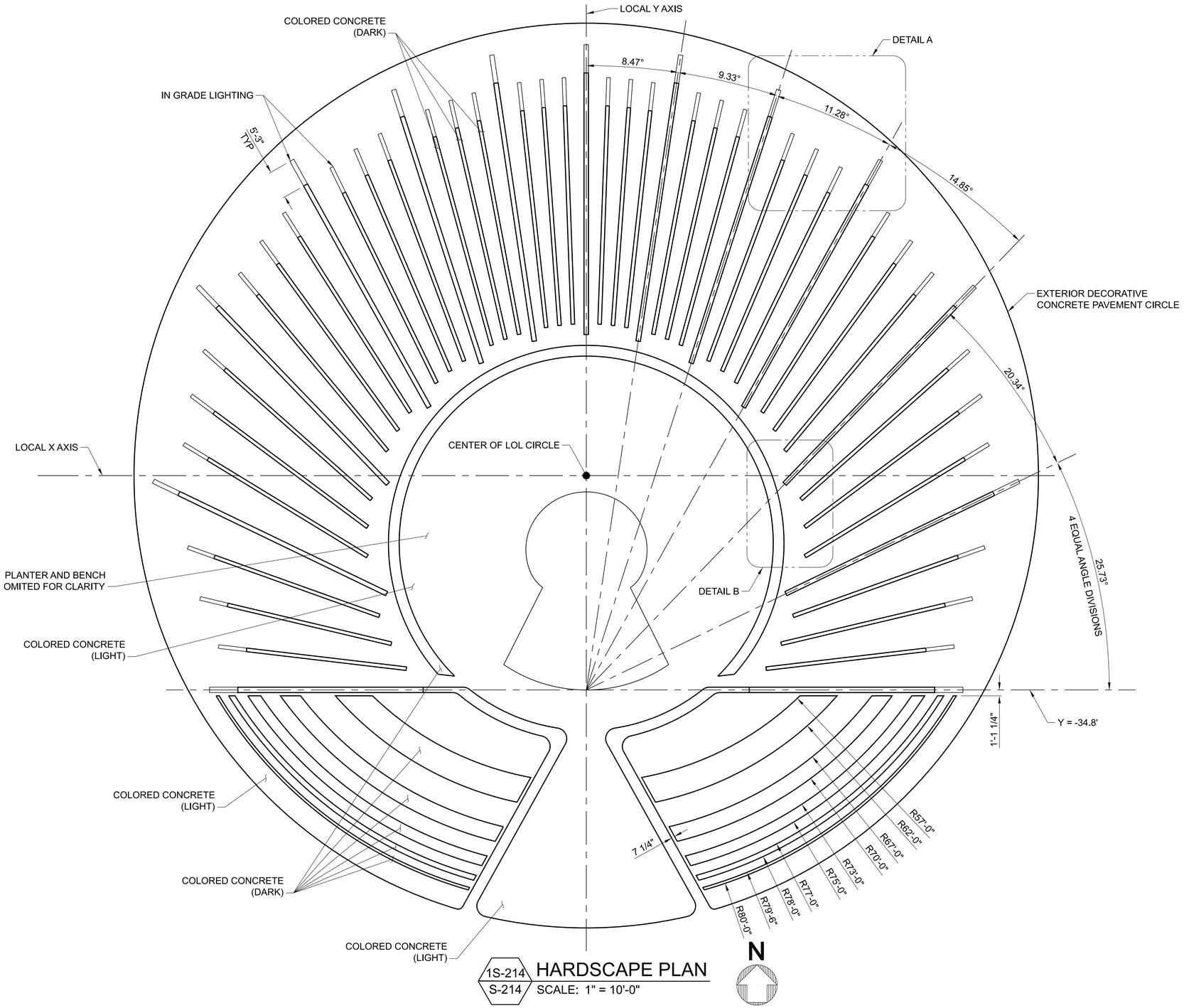
AVALON PROMENADE

BENCH LAYOUT

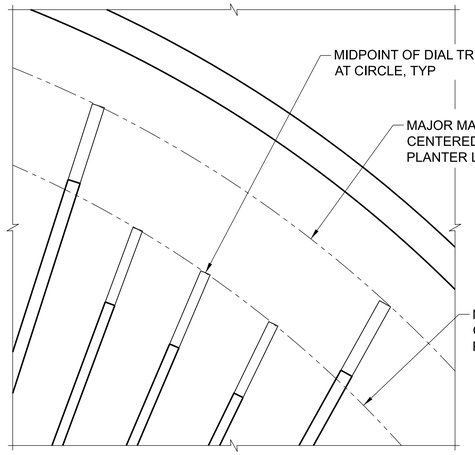
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3472
SHEET NUMBER: S-213

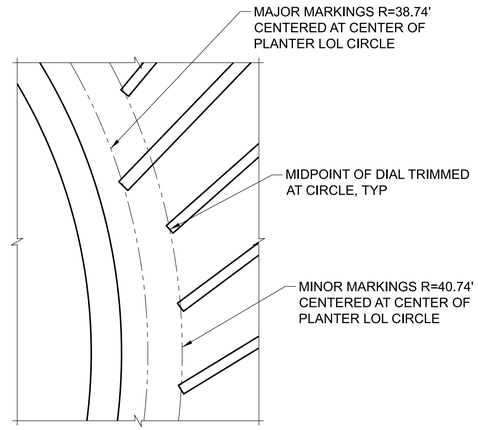
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DATE: Jan. 24, 2020 10:41 AM XREFS:XREF_PoLA_Border IMAGES:
POLAPR01_10/2012_R.B.



1S-214 / S-214 **HARDSCAPE PLAN**
SCALE: 1" = 10'-0"



2S-214 / S-214 **DETAIL A**
SCALE: 1" = 5'-0"



3S-214 / S-214 **DETAIL B**
SCALE: 1" = 5'-0"

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REGISTERED PROFESSIONAL ENGINEER — DANIEL J FITZWILLIAM — No. 58937 — Exp. 6/30/2025 — CIVIL — STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

TYLin
707 WILSHIRE BOULEVARD, SUITE 4900
LOS ANGELES, CALIFORNIA 90017
PHONE(213) 946-7960

SCALE: AS NOTED
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CHECKED:
DESIGNED: B. SOKOLOWSKI
ENGINEER / ARCHITECT

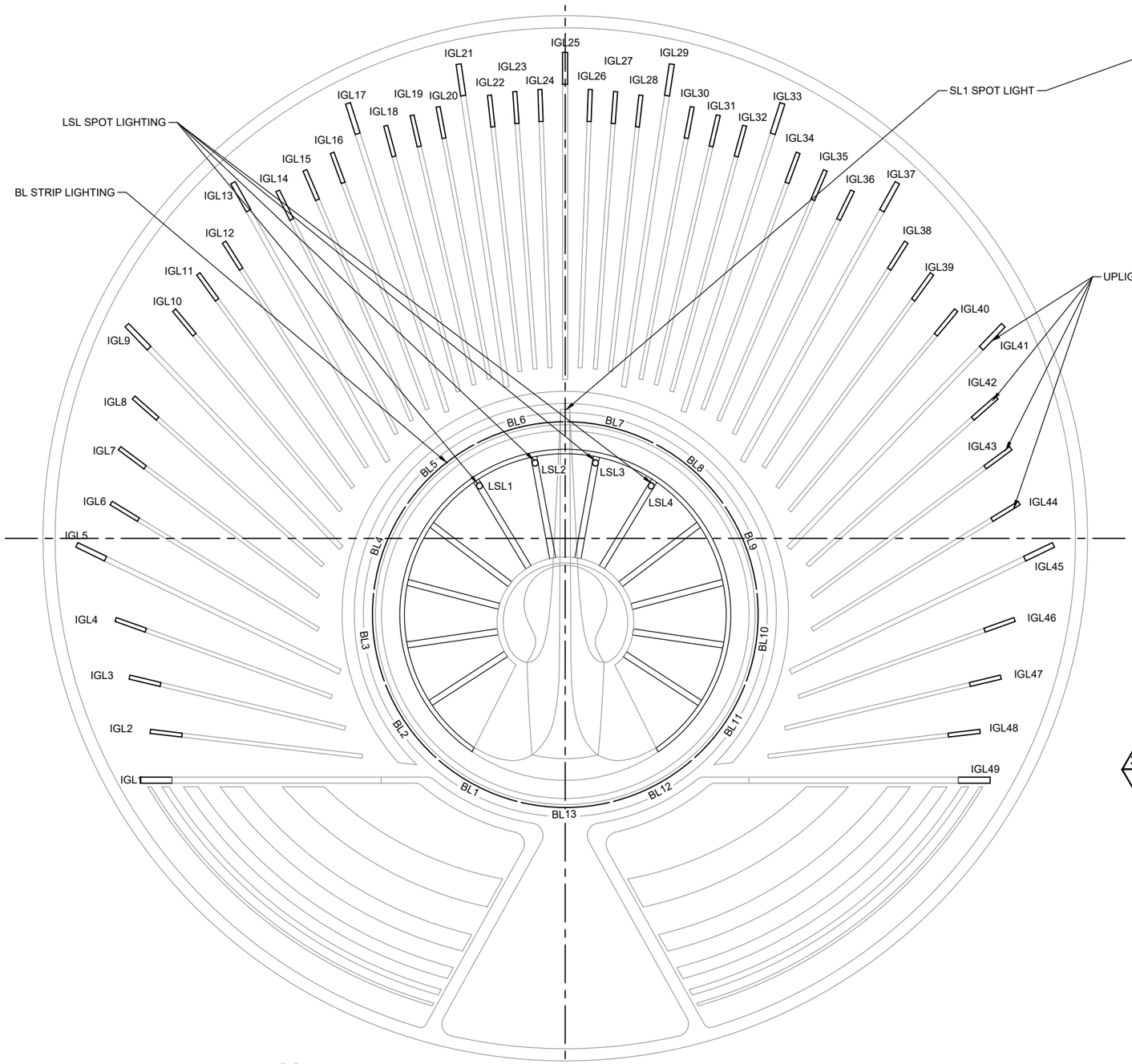
AVALON PROMENADE

HARDSCAPE LAYOUT

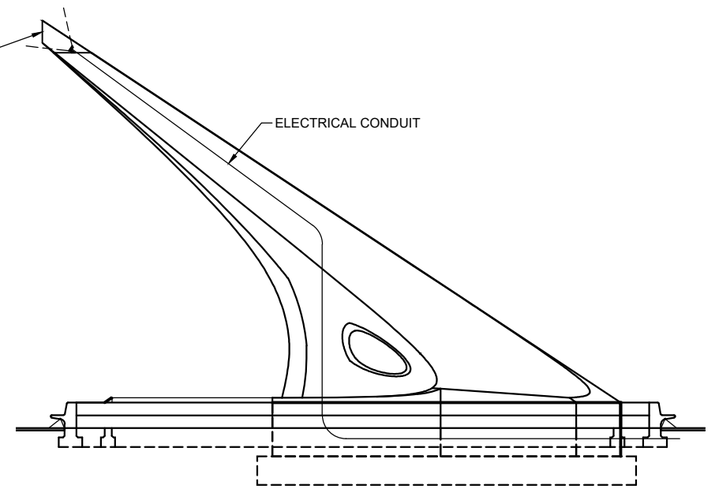
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

DRAWING NUMBER: 1-3472
SHEET NUMBER: S-214

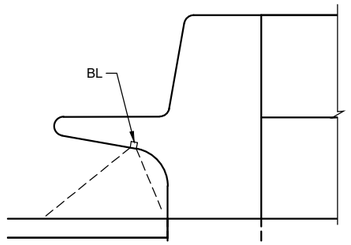
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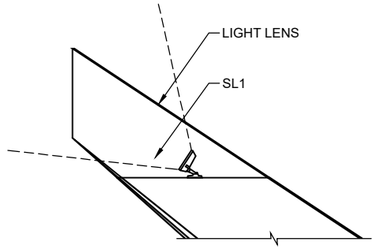
1S-215 / S-215 **LIGHTING PLAN**
SCALE: 1" = 10'-0"



2S-215 / S-215 **LIGHTING ELEVATION**
SCALE: 1/8" = 1'-0"



3S-215 / S-215 **BENCH LIGHT MOUNTING**
SCALE: 1" = 1'-0"



4S-215 / S-215 **SPOT LIGHT MOUNTING**
SCALE: 1/2" = 1'-0"

FIXTURE SCHEDULE

NAME	TYPE	QUANTITY	LENGTH	MANUFACTURER
IGL	IN GRADE LINEAR FLOOD	49	4 FT	TRIDENT OUTDOOR RGBW BY LUMINII*
BL	FLEXIBLE LED STRIP MOUNTED TO UNDERSIDE OF BENCH	13	16 FT	KURBA LARGE VERTICAL PIXEL RGBW BY LUMINII*
LSL	LANDSCAPE SPOT LIGHT INTEGRATED INTO PLANTERS	4	13" x 6.5"	BLAST POWERCORE GEN5 RGBW*
SL	SPOT LIGHT INTEGRATED INTO GNOMON TIP	1	13" x 6.5"	BLAST POWERCORE GEN5 RGBW*

* OR EQUIVALENT

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PROFESSIONAL ENGINEER — REGISTERED — DANIEL J FITZWILLIAM — No. 58937 — Exp. 6/30/2025 — CIVIL — STATE OF CALIFORNIA
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LOS ANGELES, CALIFORNIA 90017
PHONE(213) 946-7960

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ENGINEER / ARCHITECT

AVALON PROMENADE

LIGHTING LAYOUT

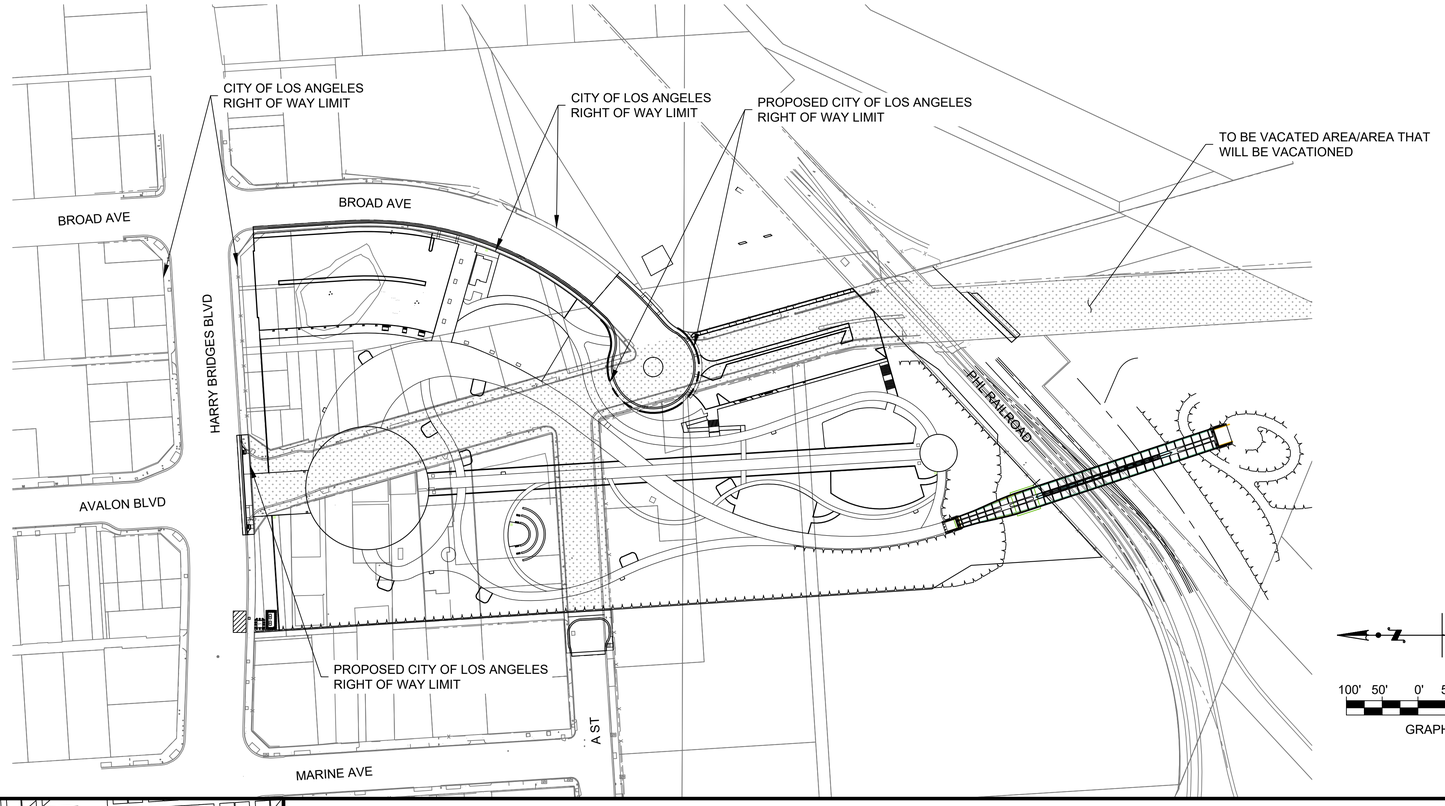
THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

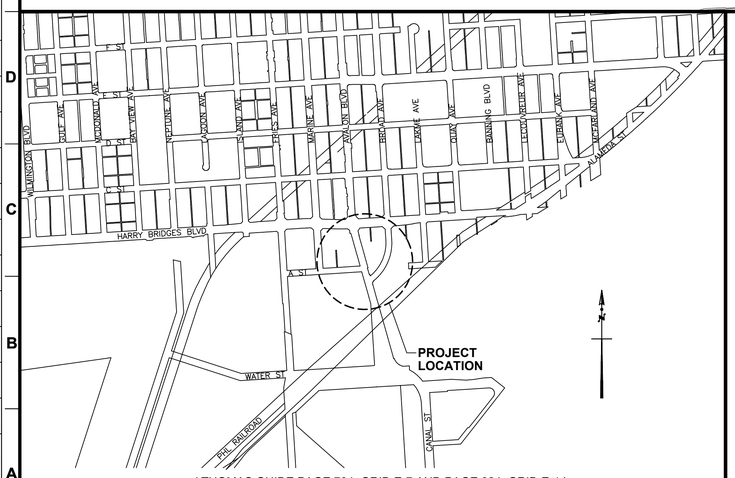
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POLAPRO1_10/2012_R.B.

BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
CITY OF LOS ANGELES

AVALON PROMENADE AND GATEWAY





(THOMAS GUIDE PAGE 794, GRID E-7 AND PAGE 824, GRID E-1)

VICINITY MAP

NOT TO SCALE

PROJECT TEAM

PROJECT MANAGEMENT: CITY OF LOS ANGELES
HARBOR DEPARTMENT
ENGINEERING DIVISION
CHRISTIAN CASTRO, P.E.
PROJECT MANAGER

CONSTRUCTION MANAGEMENT: CITY OF LOS ANGELES
HARBOR DEPARTMENT
CONSTRUCTION DIVISION
CHRISTOPHER TRINIDAD, P.E.
PROJECT MANAGER

BID AND AWARD: CITY OF LOS ANGELES
HARBOR DEPARTMENT
CONSTRUCTION DIVISION
CHRISTOPHER TRINIDAD, P.E.
PROJECT MANAGER

STREETS: **T.Y. LIN INTERNATIONAL**
ERIC JOHNSON, P.E.
CIVIL ENGINEER
SHARON LUMBRERAS, P.E.
STORM DRAIN ENGINEER

ENVIRONMENTAL: CITY OF LOS ANGELES
HARBOR DEPARTMENT
ENVIRONMENTAL DIVISION
TARA TISOPULOS
ENVIRONMENTAL PROJECT MANAGER

ELECTRICAL: **LIN CONSULTING**
WILLIAM SUN, P.E., T.E.
ELECTRICAL ENGINEER

SURVEY: CITY OF LOS ANGELES
HARBOR DEPARTMENT
CONSTRUCTION DIVISION
BOBBY RIVERA, P.L.S.
CHIEF SURVEYOR

GEOTECHNICAL: **EARTH MECHANICS, INC.**
ARUL K. ARUMOLI, Ph.D, P.E., G.E.
GEOTECHNICAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
ERIC JOHNSON
No. C69305
Exp. 06-30-26
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED BY:
TYLin
20 PACIFICA, SUITE 350
IRVINE, CALIFORNIA 92618
PHONE (949) 580-4350

ENGINEER /ARCHITECT SIGNATURE DATE

REVISION DATES (DESIGN STAGE ONLY)

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Sheet Version 6.0 2-2015

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

B - PERMITS
BR 600528

INDEX NO. P-12265

WORK ACCEPTED | SERIAL NO. | DATE: | BY:

NO. | REVISIONS: | DATE: | BY:

APPROVALS: | DATE: | BY:
Harbor
Survey
BSL
BSS-UFD
LADOT

TED ALLEN P.E.
CITY ENGINEER

ACCEPTED BY :

ALEJANDRO MORENO, P.E., PLAN CHECKER DATE

CARLOS CHAIDEZ, P.E., DIVISION / DISTRICT ENGINEER DATE

VERTICAL CONTROL: SEE BENCHMARK NO.1 AND BENCHMARK NO.2
HORIZONTAL CONTROL: SEE PLAN SHEETS FOR C/L REFERENCE

SHEET TITLE: COVER SHEET

PROJECT: AVALON PROMENADE AND GATEWAY

ADDRESS: 127 NORTH BROAD AVENUE
WILMINGTON, CA 90744

DRAWING NO.
GI-01

SHEET 1 OF 26 SHEETS

NOTICE TO CONTRACTORS

1. SPECIFICATIONS: ALL WORK SHALL CONFORM TO THE LATEST EDITION AND SUPPLEMENTS OF "THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (GREENBOOK), AND THE CORRESPONDING "ADDITIONS AND AMENDMENTS TO THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (BROWN BOOK).

2. THESE IMPROVEMENTS UNDER THESE B-PERMIT CONSIST OF WORK CALLED FOR ONLY ON THIS PLAN.

3. STANDARD PLANS FOR THIS PROJECT:
   CITY OF LOS ANGELES
   - S-110-1 HOUSE CONNECTION SEWERS, TYPE A
   - S-137-1 **DO NOT** REUSE THE EXISTING METAL FRAME AND COVER
   - S-251-1 PIPE LAYING IN TRENCHES
   - S-410-2 TYPES OF CURB AND GUTTER
   - S-431-0 JOINTS IN CONCRETE SIDEWALK
   - S-432-1 STANDARD STREET CROWN SECTIONS
   - S-440-4 DRIVEWAYS
   - S-442-6 CURB RAMPS
   - S-444-0 SIDEWALK
   - S-477-2 T-TRENCH AND PAVEMENT RESTORATION ASPHALT CONCRETE STREETS
   - S-627-0 SYMBOLS FOR CONSTRUCTION NOTES
   - S-791-1 ADVANCE CONSTRUCTION NOTICE SIGNS

4. INSPECTION: ALL WORK AND MATERIALS SHALL BE INSPECTED BY THE INSPECTOR OF PUBLIC WORKS DURING CONSTRUCTION PURSUANT TO LATEST EDITION OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK) AS AMENDED BY THE CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS "BROWN BOOK", AND THE STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION AS APPLICABLE. CALL (213) 485-5080 BEFORE NOON OF THE WORKING DAY BEFORE THE FIRST SCHEDULED DAY OF CONSTRUCTION.
   PRIOR TO THE START OF ANY CONSTRUCTION, DEMOLITION, REMOVALS, SAWCUTTING, OR INSTALLATION OF TRAFFIC CONTROL THE CONTRACTOR SHALL MEET WITH THE INSPECTOR TO DISCUSS SAFETY, TRAFFIC CONTROL REQUIREMENTS, PUBLIC ACCESS, CONSTRUCTION IMPACT MITIGATION, REMOVAL LIMITS, AND CONTRACTOR'S PLANNED SEQUENCING OF OPERATIONS.
   PRIOR TO OR AT THE PROJECT PRECONSTRUCTION MEETING THE PERMITTEE OR ITS CONTRACTOR SHALL PROVIDE THE INSPECTOR TWO SETS OF FULL-SIZE PLANS AND MAINTAIN ONE SET OF FULL-SIZE PLANS AT THE SITE DURING CONSTRUCTION. INDEXED PLANS ARE AVAILABLE FROM THE CITY'S WEBSITE AT HTTP://ENGVAULT.LACITY.ORG.

5. THE CONTRACTOR, IN CONFORMANCE WITH LOS ANGELES CITY ORDINANCE NO. 150,478 SHALL POTHOLE EXISTING SUBSURFACE INSTALLATIONS CARRYING UNSTABLE SUBSTANCES TO DETERMINE THEIR LOCATIONS AND ELEVATIONS BEFORE COMMENCING EXCAVATION.

6. UNDERGROUND SERVICE ALERT: BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT (USA) INQUIRY I.D. NUMBER BY CALLING (800) 227-2600. TWO WORKING DAYS SHALL BE ALLOWED AFTER THE I.D. NUMBER IS OBTAINED AND BEFORE THE CONTRACTOR STARTS THE EXCAVATION WORK SO THAT UTILITY OWNERS CAN BE NOTIFIED. IF THE UTILITY OWNER IS THE CITY OF LOS ANGELES, A CONFIRMATION NUMBER INDICATING THE CITY HAS BEEN NOTIFIED SHALL BE OBTAINED BY USA AND/OR THE CONTRACTOR FROM THE APPROPRIATE CITY DEPARTMENT. THE I.D. NUMBER TOGETHER WITH THE DATE ACQUIRED SHALL BE REPORTED TO THE BUREAU OF CONTRACT ADMINISTRATION WHEN CALLING FOR INSPECTION. I.D. NUMBERS WILL NOT BE GIVEN MORE THAN 10 DAYS BEFORE STARTING EXCAVATION WORK.

7. AT LEAST THIRTY (30) DAYS BEFORE THE START OF CONSTRUCTION THE CONTRACTOR/ENGINEER SHALL CONTACT THE BUREAU OF STREET SERVICES, COORDINATING SECTION AT (213) 847-3200 TO VERIFY THAT THERE IS NO PROPOSED PROJECT IN THIS AREA.

8. NOTIFICATION: AT LEAST TEN (10) DAYS BEFORE THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY, IN WRITING, ABUTTING PROPERTY OCCUPANTS OF THE PROPOSED CONSTRUCTION START DATE. A COPY OF SAID WRITTEN NOTIFICATION SHALL BE PROVIDED TO THE PUBLIC WORKS INSPECTOR FOR APPROVAL BEFORE THEY ARE DISTRIBUTED TO THE OCCUPANTS OF THE ABUTTING PROPERTY.

9. ADVANCE CONSTRUCTION NOTICE SIGNS:
   IN ADDITION TO SIGNS REQUIRED BY THE PROVISIONS OF THE "WORK AREA TRAFFIC CONTROL HANDBOOK" (WATCH), LATEST EDITION, FURNISH AND PLACE SIGNS FOR GIVING ADVANCE NOTICE TO MOTORISTS OF TRAFFIC DISRUPTION AS PART OF THIS PROJECT IN ACCORDANCE WITH STANDARD PLAN S-791-1.

10. CUTS OR EXCAVATIONS IN STREETS THAT HAVE BEEN RESURFACED ONE YEAR OR LESS FROM THE DATE OF A PROPOSED CUT OR EXCAVATION ARE PROHIBITED UNLESS THE PERMITTEE RESURFACES THE ENTIRE BLOCK OR INTERSECTION WITHIN WHICH SUCH CUT OR EXCAVATION OCCURS, PER ORDINANCE NO. 171922, 171923, 171924, AND SPECIAL ORDER NO. 06-0807.

11. CONSTRUCTION STAKES FOR CURB AND LONGITUDINAL GUTTER, WITH GRADE LESS THAN 0.50%, SHALL BE SET AT 12.5 FEET ON CENTER.

12. REMOVALS:
    A. REMOVE ALL EXISTING IMPROVEMENTS THAT INTERFERE WITH THE CONSTRUCTION OF THIS PROJECT.
    B. ALL CONFLICTING UTILITIES SHALL BE REMOVED OR RELOCATED.

13. NOTE THE EXISTING LADWP WATER METER AND COORDINATE WITH LADWP FOR REMOVAL. CONTACT ETHEL PEREZ AT (213) 367-2130.

14. IN ADDITION TO THE CONSTRUCTION OF PAVEMENT SHOWN HEREON, WORK REQUIRED UNDER THIS PLAN WILL ALSO INCLUDE THE CONSTRUCTION OF PERMANENT TRENCH RESURFACING IN ALL AREAS WHERE UTILITY LINES HAVE BEEN INSTALLED TO SERVE THIS DEVELOPMENT. CONDITIONS OF TRENCH BACKFILL AND RESURFACING SHALL BE AS SPECIFIED ON THE EXCAVATION PERMIT. PAVING OF ROADWAY AREAS SHALL BE WITHHELD UNTIL CONTEMPLATED UTILITY CHANGES OR INSTALLATIONS HAVE BEEN MADE UNDER CITY PERMIT. TRENCHING WITHIN CITY RIGHT-OF-WAY SHALL BE PER STANDARD PLAN S-477-1.

15. REPAIR AND/OR REPLACE ANY EXISTING BROKEN OR OFF-GRADE PAVEMENT, CONCRETE CURB, GUTTER OR SIDEWALK IMMEDIATELY ADJACENT TO OR WITHIN THE AREA OF THIS IMPROVEMENT SATISFACTORY TO THE CITY ENGINEER.

16. SURVEY MONUMENT PRESERVATION IS REQUIRED AND SHALL INCLUDE SUBMITTAL OF PRE AND POST CONSTRUCTION SURVEY MONUMENT TIES TO BOTH HORIZONTAL AND VERTICAL CONTROL POINTS PUBLISHED IN THE LOS ANGELES CITY ENGINEER FIELD BOOKS AND PRECISE BENCHMARK BOOKS. THIS DOES NOT RELIEVE THE CONTRACTOR OF FULFILLING ANY ADDITIONAL REQUIREMENTS SET FORTH BY SECTIONS 2-9.1 AND 2-9.3 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK AND BROWN BOOK).

17. IMPORTANT NOTICE: ALL REQUIRED PUBLIC IMPROVEMENTS MUST BE COMPLETED BEFORE A TEMPORARY CERTIFICATE OF OCCUPANCY OR A CERTIFICATE OF OCCUPANCY WILL BE ISSUED FOR THIS PROJECT PER ORDINANCE NO. 165081.

NOTICE TO CONTRACTORS CONT'D

18. TRAFFIC LANE REQUIREMENTS:

THE LATEST EDITION AND SUPPLEMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK) AND THE CORRESPONDING ISSUE OF THE "BROWN BOOK" WILL BE SATISFACTORY FOR TRAFFIC AND ACCESS. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "WORK AREA TRAFFIC CONTROL HANDBOOK" (WATCH) ADOPTED BY THE BOARD OF PUBLIC WORKS OF THE CITY OF LOS ANGELES.

PROJECTS WITHIN THE MAJOR TRANSIT AND TRANSPORTATION CONSTRUCTION TRAFFIC MANAGEMENT COMMITTEE (TCTMC) AREAS REQUIRE SPECIFIC TRAFFIC LANE REQUIREMENTS FROM THE COMMITTEE PRIOR TO THE START OF WORK ON THE PUBLIC RIGHT OF WAY.

ON STREETS WITH ONE TRAFFIC LANE IN EACH DIRECTION, MAINTAIN ONE TRAFFIC LANE IN EACH DIRECTION AT ALL TIMES. ON MULTI-LANE STREETS, THE DEPARTMENT OF TRANSPORTATION (LADOT) RECOMMENDS THAT ONE TRAFFIC LANE MAY BE CLOSED BETWEEN 9:00 AM TO 3:30 PM MONDAY TO FRIDAY AND 8:00 AM TO 5:00 PM ON SATURDAY. ALL TRAFFIC LANES (INCLUDING TURNING AND PARKING LANES) SHALL BE UNOBSTRUCTED AT ALL OTHER TIMES. ANY TRAFFIC LANE CLOSURE SHALL BE APPROVED BY THE BUREAU OF ENGINEERING (BOE) AND/OR BUREAU OF STREET SERVICES (BSS) THROUGH THEIR PERMITTING PROCEDURES.

THE CONTRACTOR SHALL FOLLOW ALL PROVISIONS OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (GREEN BOOK) AND THE LATEST ISSUE OF THE CITY'S BROWN BOOK INCLUDING BUT NOT LIMITED TO MAINTAIN EMERGENCY VEHICLE ACCESS AND LOCAL ACCESS ON LOCAL STREETS AND ALLEYS AT ALL TIMES. ACCESS TO DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES UNLESS WRITTEN APPROVAL OR AGREEMENTS HAVE BEEN OBTAINED BY THE AFFECTED PROPERTY OWNER.

ALL REQUESTS FOR ADDITIONAL TRAFFIC LANE CLOSURES AND SIDEWALK CLOSURE SHALL BE APPROVED BY BOE AND/OR BSS. IN ADDITION, ALL TRAFFIC LANE CLOSURES BETWEEN THE HOURS OF 7:00 AM TO 9:00 AM AND 3:30 PM TO 7:00 PM MONDAY TO FRIDAY SHALL OBTAIN AN EXEMPTION OF THE L.A.M.C 62.61 (B) (RUSH HOUR CONSTRUCTION ON CITY STREETS) WHICH IS APPROVED BY BOE.

ALSO, ANY TRAFFIC LANE CLOSURES BETWEEN 9:00 PM TO 6:00 AM MONDAY TO FRIDAY, AND TRAFFIC LANE CLOSURES ON SUNDAY SHALL REQUIRE A NOISE VARIANCE APPROVAL BY THE LOS ANGELES POLICE COMMISSION.

WORK AREA TRAFFIC CONTROL (LESS THAN 72 HOURS)

THE WORK AREA TRAFFIC CONTROL FOR ALL TRAFFIC LANE, SIDEWALK AND STREET CLOSURES SHALL COMPLY WITH THE PROVISIONS OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CAMUTCD) 2014 EDITION (OR LATEST CITY ADOPTED EDITION). THE CITY PERMITTING AGENCY (EITHER BOE AND/OR BSS) MAY ALLOW THE USE OF TYPICAL APPLICATIONS FROM THE WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH) MANUAL (LATEST CITY ADOPTED EDITION) FOR TYPICAL TRAFFIC LANE CLOSURES. BOE AND/OR BSS MAY REQUIRE THE CONTRACTOR TO CONTACT LADOT FOR FURTHER REVIEW OF ANY REQUESTED TRAFFIC LANE, SIDEWALK AND STREET CLOSURE. LADOT MAY REQUIRE THE PREPARATION OF A SITE-SPECIFIC WORKSITE TRAFFIC CONTROL PLAN (WTCP) DESIGNED AND STAMPED BY A CALIFORNIA REGISTERED CIVIL AND TRAFFIC PROFESSIONAL ENGINEER. FOR INFORMATION ON PREPARING AND SUBMITTING SHORT-TERM WTCP, PLEASE VISIT OUR WEBSITE AT HTTPS://LADOT.LACITY.ORG/WHAT-WE-DO/PLAN-REVIEW/ CITYWIDE-TEMPORARY-TRAFFIC-CONTROL.

IF ON-STREET PARKING IS REQUIRED FOR TEMPORARY REMOVAL FOR THE REQUESTED TRAFFIC LANE OR STREET CLOSURE, THE CONTRACTOR SHALL CONTACT LADOT'S SPECIAL TRAFFIC CONTROL DIVISION AT (213) 485-2298, FOUR (4) WORK DAYS PRIOR TO THE START OF CONSTRUCTION FOR THE POSTING OF TEMPORARY "TOW AWAY NO STOPPING" SIGNS.

WORK AREA TRAFFIC CONTROL (72 HOURS OR LONGER)

THE WORK AREA TRAFFIC CONTROL FOR ALL TRAFFIC LANE, SIDEWALK AND STREET CLOSURES FOR A DURATION OF 72 HOURS OR LONGER CONSECUTIVE HOURS SHALL REQUIRE A LONG-TERM WTCP. THE LONG-TERM WTCP SHALL COMPLY WITH THE PROVISIONS OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CAMUTCD) 2014 EDITION (OR LATEST CITY ADOPTED EDITION) AS WELL AS LADOT'S DESIGN STANDARDS AND SPECIFICATIONS. THE WTCP SHALL BE PREPARED UNDER THE SUPERVISION AND STAMPED BY A CALIFORNIA REGISTERED CIVIL AND TRAFFIC PROFESSIONAL ENGINEER. FOR INFORMATION ON PREPARING AND SUBMITTING LONG-TERM WTCP, PLEASE VISIT OUR WEBSITE AT HTTPS://LADOT.LACITY.ORG/WHAT-WE-DO/ PLAN-REVIEW/PERMIT-PLAN-REVIEW.

TRAFFIC CONTROL DEVICES MAINTENANCE/RESTORATION

STRIPING, SIGNAGE AND CURB MARKINGS

THE B-PERMIT APPLICANT SHALL BE RESPONSIBLE FOR THE RESTORATION OF ALL OBLITERATED STRIPING AND PAVEMENT MARKINGS, AND FOR THE REINSTALLATION OF ALL MISSING, DAMAGED AND NECESSARY TRAFFIC CONTROL DEVICES (INCLUDING BUT NOT LIMITED TO SIGNS, CURB MARKINGS, SPEED HUMPS, STAMPED CROSSWALKS). THE CONTRACTOR SHALL BE REQUIRED TO PHYSICALLY INSTALL SOME OR ALL THE TRAFFIC CONTROL DEVICES TO THE SATISFACTION OF LADOT. THE ENTIRE COST THEREOF SHALL BE BORNE BY THE CONTRACTOR. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE INSTALLED UTILIZING THERMOPLASTIC MATERIALS PER LADOT SPECIFICATIONS. THE CONTRACTOR SHALL CONTACT LADOT'S CITYWIDE INVESTIGATIONS AT (213) 928-9625 PRIOR TO COMMENCING ANY WORK THAT REQUIRES TRAFFIC CONTROL DEVICES MAINTENANCE.

PARKING METERS

IF THIS PROJECT IMPACTS ANY PARKING METERS, THE B-PERMIT APPLICANT AND/OR CONTRACTOR SHALL CONTACT THE LADOT PARKING METER PLANNING SECTION AT (213) 473-8270 TEN (10) WORKING DAYS IN ADVANCE OF CONSTRUCTION AFFECTING PARKING METERS. LADOT WILL COORDINATE THE REMOVAL OF PARKING METERS AND SIGNS AS NEEDED AND, UPON COMPLETION OF THE PROJECT, THE REINSTALLATION OF METERS, SIGNS, AND/OR PAINT AS NEEDED. REMOVAL AND REINSTALLATION COSTS WILL BE DEDUCTED FROM THE CONTRACTOR'S DEPOSIT. FAILURE TO NOTIFY LADOT WILL MAKE THE CONTRACTOR LIABLE FOR THE COST OF ANY MISSING OR DAMAGED METERS, SIGNS, ETC., WHICH LADOT'S RECORDS INDICATE WERE PRESENT.

TRAFFIC SIGNAL NOTES

IF THIS PROJECT INTERFERES WITH EXISTING CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION (LADOT'S) TRAFFIC SIGNAL PULL BOXES, CONDUITS, DETECTOR LOOPS, OR OTHER EQUIPMENT; THE CONTRACTOR SHALL NOTIFY THE LADOT SIGNAL INSPECTOR THREE (3) WORK DAYS PRIOR TO BEGINNING OF CONSTRUCTION:

LADOT CENTRAL TRAFFIC SIGNAL INSPECTOR AT (213) 485-1071, LADOT WESTERN TRAFFIC SIGNAL INSPECTOR AT (213) 485-6834, LADOT VALLEY TRAFFIC SIGNAL INSPECTOR AT (818) 779-7433

IN THE EVENT OF DAMAGE TO EXISTING TRAFFIC SIGNAL EQUIPMENT, CONDUIT, OR DETECTOR LOOPS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LADOT TRAFFIC SIGNAL REPAIR AT (818) 752-5108, AND SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT AT NO COST TO THE CITY. REPAIRED OR REPLACED EQUIPMENT/CONDUIT SHALL BE INSPECTED BY THE TRAFFIC SIGNAL INSPECTOR BEFORE SIGNAL CIRCUITS ARE ENERGIZED.

NOTIFY LADOT SIGNAL MAINTENANCE SUPERVISOR AT (213) 485-7721 THREE (3) WORK DAYS PRIOR TO START OF CONSTRUCTION WHEN WITHIN 20 FEET OF TRAFFIC SIGNAL EQUIPMENT, DETECTOR LOOPS, OR CONDUIT. CONTACT ATSAC FIELD IMPLEMENTATION (213) 473-8286 FOR MARKING OF ATSAC FIBER CONDUIT.

INDEX TO SHEETS

SHT NO.	PLANS OF	FROM	TO
GI-01	COVER SHEET		
CC-01	TITLE SHEET		
CC-02	TYPICAL SECTIONS		
	STREETS		
CS-01	HARRY BRIDGES BLVD	218' E/O N MARINE AVE	235' W/O N BROAD
CS-02	AVALON BLVD	100' N/O BROAD AVE	400' W/O HARRY BRIDGES BLVD
CS-03	BROAD AVE	150' E/O AVALON BLVD	78' S/O HARRY BRIDGES BLVD
CS-04	BROAD AVE	542' S/O HARRY BRIDGES BLVD	450' S/O AVALON BLVD
CS-05	AVALON BLVD	1950' S/O HARRY BRIDGES BLVD	
CS-06	A ST	184' E/O MARINE AVE	300' W/O AVALON BLVD
CDT-01	DRIVEWAY DETAILS		
CU-01 - CU-03	STORM DRAIN		
SP-01 - SP-02	RESTORATION STRIPING PLANS		
TC-01 - TC-06	TEMPORARY TRAFFIC CONTROL		
TS-01	TRAFFIC SIGNAL		
TTS-01	TEMPORARY TRAFFIC SIGNAL		
SL-01 - SL-03	STREET LIGHTING		

19. GRADING REQUIRED ON PRIVATE PROPERTY OUTSIDE THE STREET OR ALLEY DEDICATION, IN CONNECTION WITH THIS IMPROVEMENT, SHALL BE PERFORMED EITHER WITHIN DEDICATED SLOPE EASEMENTS OR IN AREAS FOR WHICH SATISFACTORY RIGHTS-OF-ENTRY HAVE BEEN OBTAINED.

20. DRAINAGE FROM ALL LOTS SHALL BE CARRIED TO THE IMPROVED GUTTER BY MEANS OF A DRIVEWAY, APPROVED OUTLET STRUCTURE, OR SIDEWALK DRAIN (SECTION 306-7 GREENBOOK).

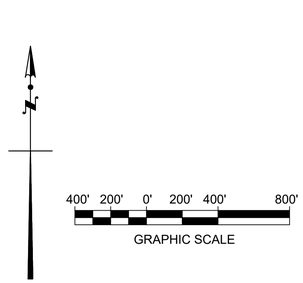
21. PAVING OF ROADWAY AREAS SHALL BE WITHHELD UNTIL THE SEWER AND STORM DRAIN WORK HAS BEEN APPROVED BY UNDERGROUND FINAL INSPECTION.

22. CONTRACTOR SHALL ARRANGE AND PAY FOR THE REMOVAL, STORAGE, RELOCATION, REPLACEMENT, AND/OR RE-INSTALLATION OF ALL TRANSIT SHELTERS, PUBLIC AMENITY KIOSKS (PAK's), NEWSSTAND VENDING KIOSKS (VK's), AUTOMATED PUBLIC TOILETS (APT's), AND/OR ADVERTISING BASED BUS BENCHES (AD BUS BENCHES) AND THEIR RELATED APPURTENANCES THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES ASSOCIATED WITH THESE PLANS WHETHER SHOWN AND INDICATED ON THE PLANS OR NOT. TRANSIT SHELTERS, PAK's, VK's, APT's, AND AD BUS BENCHES ARE THE PROPERTY OF THE CITY OF LOS ANGELES AND MAY ONLY BE REMOVED, RELOCATED, STORED, REPLACED AND/OR RE-INSTALLED BY THE CITY'S AUTHORIZED VENDORS, OUTFRONT MEDIA/JC DECAUX, LLC, (OFMJCD) AND MARTIN OUTDOOR MEDIA, LLC (MOM)

A. CONTRACTOR SHALL CONTACT GUILLERMO GONZALEZ OF OFMJCD AT (213) 608-0872 A MINIMUM OF SIX (6) WEEKS PRIOR TO ANY REQUIRED REMOVAL OR RELOCATION OF A TRANSIT SHELTER, PAK, VK, OR APT, TO ARRANGE AND PAY FOR THE REQUIRED REMOVAL, RELOCATION, REPLACEMENT, OR RE-INSTALLATION. OFMJCD WILL THEN PREPARE AN INVOICE FOR ITS COSTS TO PERFORM THE REQUESTED WORK AND PRESENT IT TO THE CONTRACTOR. UPON REMITTANCE FROM CONTRACTOR FOR ITS INVOICED COSTS, OFMJCD WILL SCHEDULE ITS CREWS TO PERFORM THE REQUESTED WORK. NEITHER OFMJCD NOR THE CITY SHALL BE RESPONSIBLE FOR ANY DELAYS ASSOCIATED WITH CONTRACTOR'S FAILURE TO PROPERLY NOTIFY AND REMIT ITS PAYMENT TO OFMJCD AS NOTED HEREON.

B. CONTRACTOR SHALL CONTACT JOVANY MORALES OR GLENN FLUTIE OF MOM AT (310) 559-1600 A MINIMUM OF FOUR (4) WEEKS PRIOR TO ANY REQUIRED REMOVAL OR RELOCATION OF ANY AD BUS BENCH TO ARRANGE FOR ITS REMOVAL OR RELOCATION. NEITHER MOM NOR THE CITY SHALL BE RESPONSIBLE FOR ANY DELAYS ASSOCIATED WITH THE CONTRACTOR'S FAILURE TO PROPERLY NOTIFY MOM AS NOTED HEREON.

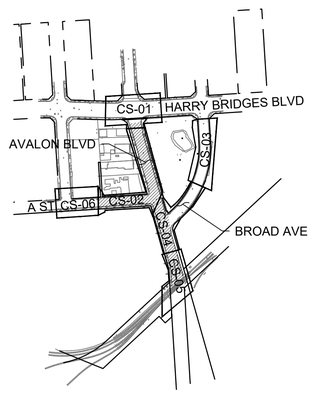
C. CONTRACTOR SHALL CONTACT GUILLERMO GONZALEZ OF OFMJCD (213) 847-0872 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE CONSTRUCTION OF ANY SIDEWALK AREA THAT IS INTENDED TO RECEIVE A NEW, REPLACEMENT, OR RELOCATED TRANSIT SHELTER, PAK, VK, AND/OR APT TO COORDINATE THE PLACEMENT AND INSTALLATION OF ANY SUB-GRADE FOOTING AND/OR ELECTRICAL CONDUIT(S) REQUIRED TO FACILITATE THE INSTALLATION OF SUCH STREET FURNITURE.



VERTICAL DATUM

1. VERTICAL DATUM REFERENCED IS MEAN LOWER LOW WATER (MLLW) (HARBOR DEPARTMENT STANDARD) UNLESS OTHERWISE NOTED ON PLANS AS MEAN SEA LEVEL (MSL) (CITY OF LOS ANGELES STANDARD). CONVERSION BETWEEN DATUMS SHALL BE AS FOLLOWS:

MLLW = MSL + 2.8 FT
MSL = MLLW - 2.8 FT



KEY MAP

SCALE: 1"=400'

REGISTERED PROFESSIONAL ENGINEER
ERIC JOHNSON
No. C69305
Exp. 06-30-26
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED BY:
TYLin
20 PACIFICA, SUITE 350
IRVINE, CALIFORNIA 92618
PHONE (949) 308-4300

REVISION DATES (DESIGN STAGE ONLY)

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REFERENCES
- DISTRICT MAP 027B205, TYP.
- DRAINAGE MAP 613, TYP.
- STRUCTURE MAP SUB-Z-205-C; SUB-Z-205-B
- SUB-Z-CDOE, SUB-Z-CDNAV, TYP.

BENCH MARK NO. 1	DESCRIPTION	BASIS
BM# 24-02090	WIRE SPIKE IN W CURB AVALON BLVD 19FT N OF BC CURB RET TO	EL. 7.416 NAVD 1929
BM# 24-02065	WIRE SPK IN E CURB AVALON BLVD 5.7FT N/O CURB B.C. NE COR BROAD AVE S END CB	EL. 9.055 NAVD 1929

BENCH MARK NO. 2	DESCRIPTION	BASIS
BM# 24-02090	WIRE SPIKE IN W CURB AVALON BLVD 19FT N OF BC CURB RET TO	EL. 7.416 NAVD 1929
BM# 24-02065	WIRE SPK IN E CURB AVALON BLVD 5.7FT N/O CURB B.C. NE COR BROAD AVE S END CB	EL. 9.055 NAVD 1929

1985ADJ

NO.	REVISIONS:	DATE:	BY:

WORK ACCEPTED — SERIAL NO. — DATE:

BUREAU OF ENGINEERING APPROVAL:
OFFICE: HARBOR DISTRICT
CHECKED BY: ALEJANDRO MORENO, P.E.
SIGNATURE: DATE:

ENGINEERING — CITY OF LOS ANGELES
BUREAU OF ENGINEERING
B - PERMITS BR 600528
INDEX NO. P-12265

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

DESIGN GROUP: TYLIN
ENGINEER: ERIC JOHNSON
DESIGNED BY: JANET BUI
DRAWN BY: ABED ZARRUQ
CHECKED BY: ERIC JOHNSON
APPROVED BY: ERIC JOHNSON

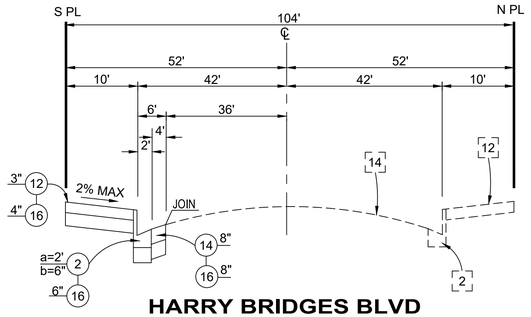
VERTICAL CONTROL: SEE BENCHMARK NO.1 AND BENCHMARK NO.2
HORIZONTAL CONTROL: SEE PLAN SHEETS FOR C/L REFERENCE

SHEET TITLE: TITLE SHEET
PROJECT: AVALON PROMENADE AND GATEWAY
ADDRESS: 127 NORTH BROAD AVENUE WILMINGTON, CA 90744

DRAWING NO. CC-01
SHEET 2 OF 26 SHEETS

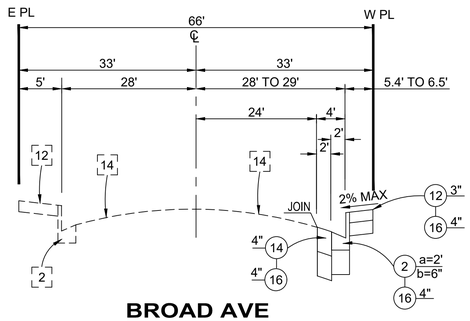
Sheet Version 6.0 2-2015

TYPICAL SECTIONS



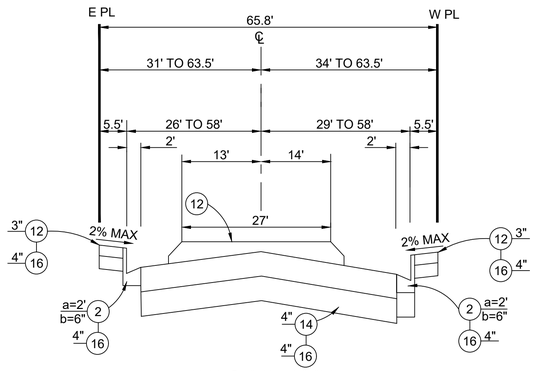
HARRY BRIDGES BLVD

FROM STA 13+31.62 TO STA 14+71.09
NTS



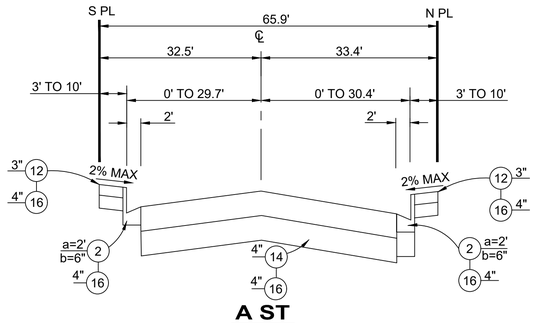
BROAD AVE

FROM STA 0+77.31 TO STA 6+00.00
NTS



BROAD AVE

FROM STA 6+00.00 TO STA 7+14.18, STA 7+40.00 TO STA 7+88.59
MOUNTABLE CURB FROM STA 7+14.18 TO STA 7+40.00
NTS



A ST

FROM STA 13+00.06 TO STA 13+56.26
NTS

ABBREVIATIONS

AGB	ALLEY GRATING BASIN
AVE	AVENUE
BLVD	BOULEVARD
BSL	BUREAU OF STREET LIGHTING
C/G	CURB AND GUTTER
C/L	CENTERLINE
CF	CURB FACE
CL	CENTERLINE
COLA	CITY OF LOS ANGELES
DWPPS	DEPARTMENT OF WATER AND POWER - POWER SERVICES
DWPWS	DEPARTMENT OF WATER AND POWER - WATER SERVICES
DWY	DRIVEWAY
E	EAST
ELEV	ELEVATION
EXIST	EXISTING
FL	FLOW LINE
FS	FINISHED SURFACE
GB	GRATING BASIN
HOR.	HORIZONTAL
J.S.	JUNCTION STRUCTURE
LA	LOS ANGELES
LID	LOW IMPACT DEVELOPMENT
LT	LEFT
MAX	MAXIMUM
MSL	MEAN SEA LEVEL
N	NORTH
N/O	NORTH OF
NTS	NOT TO SCALE
OG	ORIGINAL GROUND
PCC	PORTLAND CEMENT CONCRETE
PHL	PACIFIC HARBOR LINE
PL	PROPERTY LINE
POLA	PORT OF LOS ANGELES
PP	POWER POLE
PROP	PROPOSED
R	RIGHT, RADIUS
R/W	RIGHT OF WAY
RCP	REINFORCED CONCRETE PIPE
S	SOUTH
SCG	SOUTHERN CALIFORNIA GAS
SHT	SHEET
ST	STREET
STA	STATION
SW	SIDEWALK
T.S.	TRANSITION STRUCTURE
TC	TOP OF CURB
VCP	VITRIFIED CLAY PIPE
VER.	VERTICAL
W	WEST
W/O	WEST OF
W'LY	WESTERLY
t	THICKNESS
BW	BACK OF WALK

CONSTRUCTION SYMBOLS

- CONSTRUCT
- EXISTING
- REMOVE
- WORK BY OTHERS
- REMOVE & CONSTRUCT
- REMODEL EXISTING

CONSTRUCTION NOTES

2. TYPE C INTEGRAL CURB & GUTTER, a=AS NOTED, b=AS NOTED
12. CONCRETE WALK, t=AS NOTED
13. CURB RAMP (AS SHOWN)
14. ASPHALT CONCRETE PAVEMENT, t=AS NOTED
16. CRUSHED MISCELLANEOUS BASE, t=AS NOTED

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REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 6.0 2-2015

REGISTERED PROFESSIONAL ENGINEER
ERIC JOHNSON
No. C69305
Exp. 06-30-26
CIVIL
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PLANS PREPARED BY:

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CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

B - PERMITS
BR 600528

INDEX NO. P-12265

WORK ACCEPTED
SERIAL NO.

NO.	REVISIONS:	DATE:	BY:

BUREAU OF ENGINEERING APPROVAL:
OFFICE: HARBOR DISTRICT
CHECKED BY: ALEJANDRO MORENO, P.E.
SIGNATURE: DATE:

VERTICAL CONTROL: SEE BENCHMARK NO.1 AND BENCHMARK NO.2
HORIZONTAL CONTROL: SEE PLAN SHEETS FOR C/L REFERENCE

SHEET TITLE: TYPICAL SECTIONS

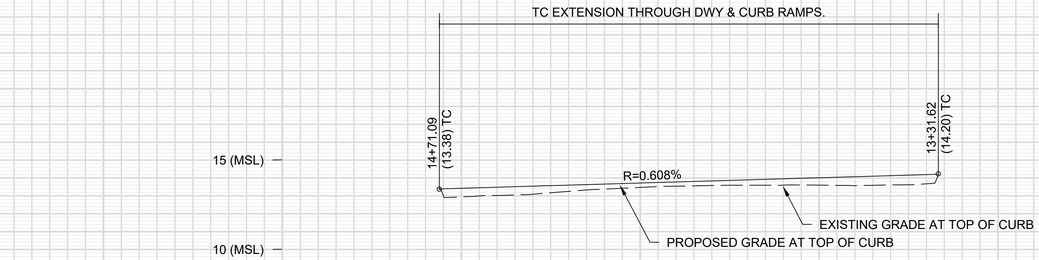
PROJECT: AVALON PROMENADE AND GATEWAY

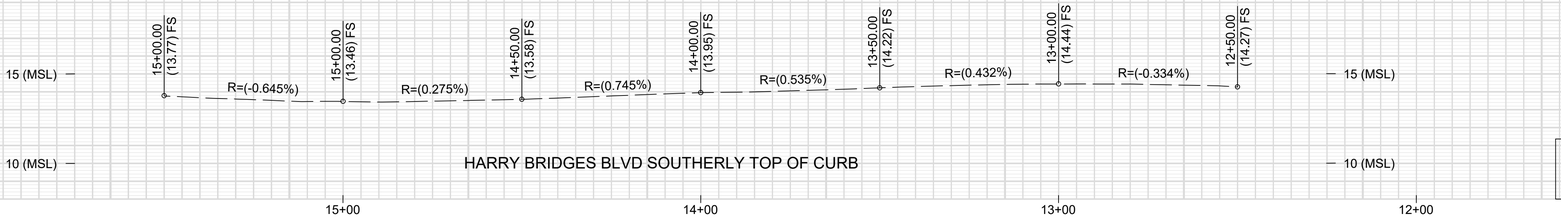
ADDRESS: 127 NORTH BROAD AVENUE
WILMINGTON, CA 90744

DRAWING NO.
CC-02

SHEET 3 OF 26 SHEETS

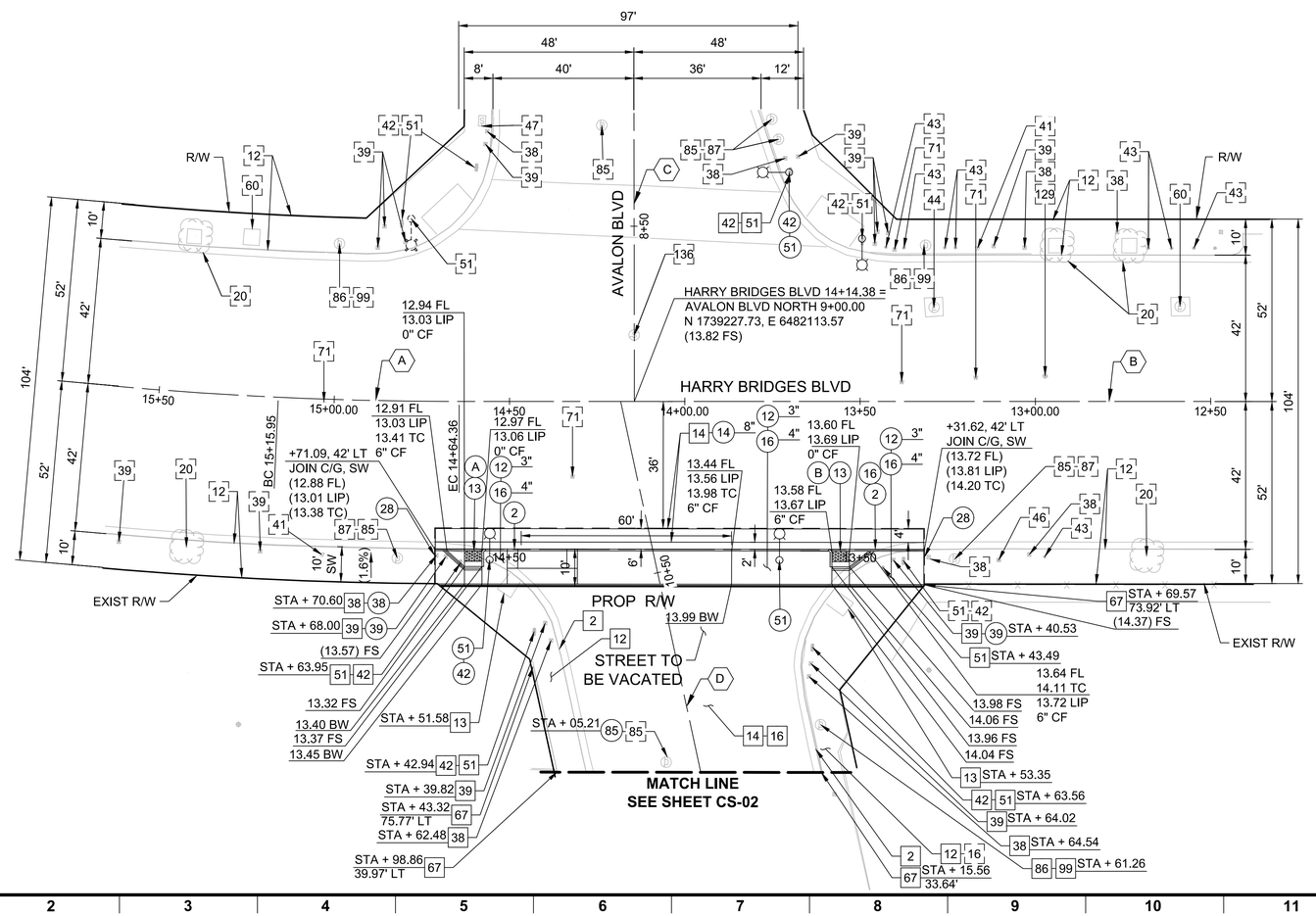
TYLIN	
DESIGN GROUP	
ENGINEER:	ERIC JOHNSON
DESIGNED BY:	JANET BUI
DRAWN BY:	ABED ZARRUQ
CHECKED BY:	ERIC JOHNSON
APPROVED BY:	ERIC JOHNSON





PROFILE

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



CONSTRUCTION SYMBOLS

- CONSTRUCT
- WORK BY OTHERS
- EXISTING PROTECT IN-PLACE
- REMOVE & CONSTRUCT
- REMOVE
- REMODEL EXISTING

CONSTRUCTION NOTES

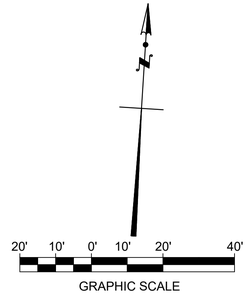
2. TYPE C INTEGRAL CURB & GUTTER a=AS NOTED, b=AS NOTED, 6"CF
10. CONCRETE DRIVEWAY (AS SHOWN)
12. CONCRETE WALK t=AS NOTED
13. CURB RAMP (AS SHOWN)
14. ASPHALT CONCRETE PAVEMENT t=AS NOTED
16. CRUSHED MISCELLANEOUS BASE t=AS NOTED
20. TREE
28. JOINT
38. STREET LIGHTING PULL BOX (SEE STREET LIGHTING PLANS)
39. TRAFFIC SIGNAL PULL BOX (SEE TRAFFIC SIGNAL PLANS)
41. FIRE HYDRANT
42. ELECTROLIER
43. DWPPS VENT
44. DWPPS MAINTENANCE HOLE
46. WATER METER
47. SIGN ON EMBEDDED POST
51. TRAFFIC SIGNAL (SEE TRAFFIC SIGNAL PLANS)
60. VAULT
67. CHAIN LINK FENCE
71. DWPWS WATER VALVE
77. SAWCUT AND JOIN
85. STORM DRAIN MAINTENANCE HOLE
86. WARPED GUTTER AT CATCH BASIN
87. CATCH BASIN
99. SIDE OPENING CATCH BASIN
129. MONITORING WELL
136. SEWER MAINTENANCE HOLE

CURB RAMP DATA

	STATION	OFFSET	CASE	Q	W	X	Y	H
A	"HARRY BRIDGES BLVD" 14+60.34	42.08' LT	A	5'	5'	5'	5'	0.5'
B	"HARRY BRIDGES BLVD" 13+55.54	42.21' LT	A	5'	5'	5.5'	5'	0.5'

STATION LINE/CURVE TABLE

CURVE/LINE #	Δ	R	L	T	B
A	5° 19' 32.88"	1100'	103.18'	51.63	
B			306.15'		N88° 15' 53.87"W
C			549.50'		S03° 39' 46.24"E
D			522.08'		S15° 46' 39.71"E



PLAN

SCALE: 1"= 20'

REGISTERED PROFESSIONAL ENGINEER
ERIC JOHNSON
No. C69305
Exp. 06-30-26
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED BY:
TYLin
20 PACIFICA, SUITE 350
IRVINE, CALIFORNIA 92618
PHONE(949) 930-4900

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

VERTICAL CONTROL: SEE BENCHMARK NO.1 AND BENCHMARK NO.2
HORIZONTAL CONTROL: SEE PLAN SHEETS FOR CAL REFERENCE

SHEET TITLE: HARRY BRIDGES BLVD PLAN AND PROFILE
PROJECT: AVALON PROMENADE AND GATEWAY
ADDRESS: 127 NORTH BROAD AVENUE WILMINGTON, CA 90744

DRAWING NO. CS-01
SHEET 4 OF 26 SHEETS

TYLin
DESIGN GROUP
ENGINEER: ERIC JOHNSON
DESIGNED BY: JANET BUI
DRAWN BY: ABED ZARRUQ
CHECKED BY: ERIC JOHNSON
APPROVED BY: ERIC JOHNSON

BUREAU OF ENGINEERING APPROVAL:
OFFICE: HARBOR DISTRICT
CHECKED BY: ALEJANDRO MORENO, P.E.
SIGNATURE: DATE:

NO. REVISIONS: DATE: BY:
WORK ACCEPTED SERIAL NO.

B - PERMITS BR 600528
INDEX NO. P-12265

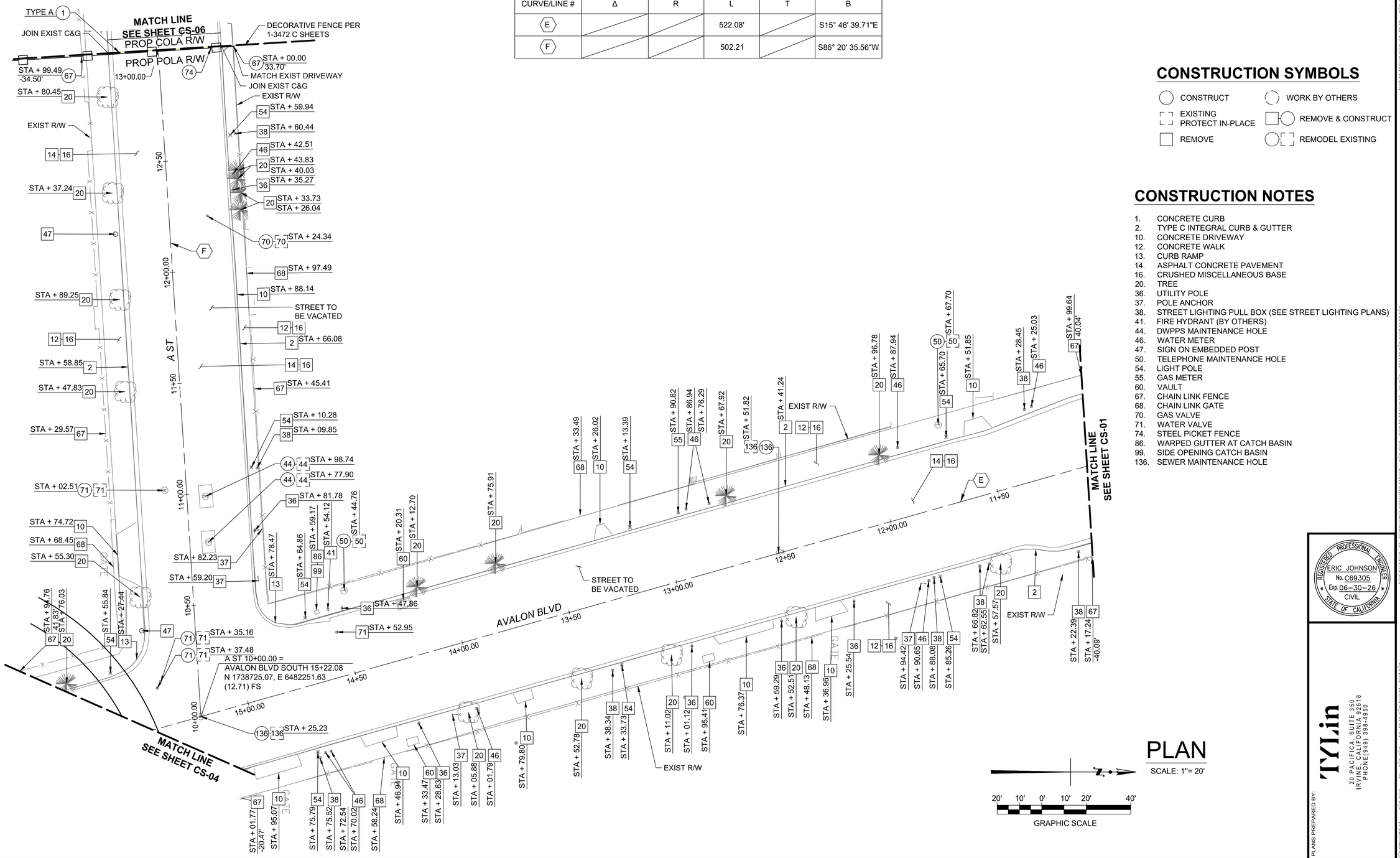
ENGINEERING
CITY OF LOS ANGELES

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REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 6.0 2-2015

STATION LINE/CURVE TABLE					
CURVE/LINE #	Δ	R	L	T	B
E			522.08'		S15° 46' 39.71"E
F			502.21		S86° 20' 35.56"W



CONSTRUCTION SYMBOLS

- CONSTRUCT
- EXISTING PROTECT IN-PLACE
- REMOVE
- WORK BY OTHERS
- REMOVE & CONSTRUCT
- REMODEL EXISTING

CONSTRUCTION NOTES

1. CONCRETE CURB
2. TYPE C INTEGRAL CURB & GUTTER
10. CONCRETE DRIVEWAY
12. CONCRETE WALK
13. CURB RAMP
14. ASPHALT CONCRETE PAVEMENT
16. CRUSHED MISCELLANEOUS BASE
20. TREE
36. UTILITY POLE
37. POLE ANCHOR
38. STREET LIGHTING PULL BOX (SEE STREET LIGHTING PLANS)
41. FIRE HYDRANT (BY OTHERS)
44. DWPPS MAINTENANCE HOLE
46. WATER METER
47. SIGN ON EMBEDDED POST
50. TELEPHONE MAINTENANCE HOLE
54. LIGHT POLE
55. GAS METER
60. VAULT
67. CHAIN LINK FENCE
68. CHAIN LINK GATE
70. GAS VALVE
71. WATER VALVE
74. STEEL PICKET FENCE
86. WARPED GUTTER AT CATCH BASIN
99. SIDE OPENING CATCH BASIN
136. SEWER MAINTENANCE HOLE

PLAN
SCALE: 1"= 20'

20' 10' 0' 10' 20' 40'
GRAPHIC SCALE

REGISTERED PROFESSIONAL ENGINEER
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Exp. 06-30-26
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CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

B - PERMITS
BR 600528

INDEX NO. P-12265

NO.	REVISIONS:	DATE:	BY:

WORK ACCEPTED
SERIAL NO.

BUREAU OF ENGINEERING APPROVAL:
OFFICE: HARBOR DISTRICT
CHECKED BY: ALEJANDRO MORENO, P.E.
SIGNATURE: DATE:

VERTICAL CONTROL: SEE BENCHMARK NO.1 AND BENCHMARK NO.2
HORIZONTAL CONTROL: SEE PLAN SHEETS FOR C/L REFERENCE

SHEET TITLE:	AVALON BLVD AND A ST REMODELING PLAN
PROJECT:	AVALON PROMENADE AND GATEWAY
ADDRESS:	127 NORTH BROAD AVENUE WILMINGTON, CA 90744

DESIGN GROUP	
ENGINEER:	ERIC JOHNSON
DESIGNED BY:	JANET BUI
DRAWN BY:	ABED ZARRUQ
CHECKED BY:	ERIC JOHNSON
APPROVED BY:	ERIC JOHNSON

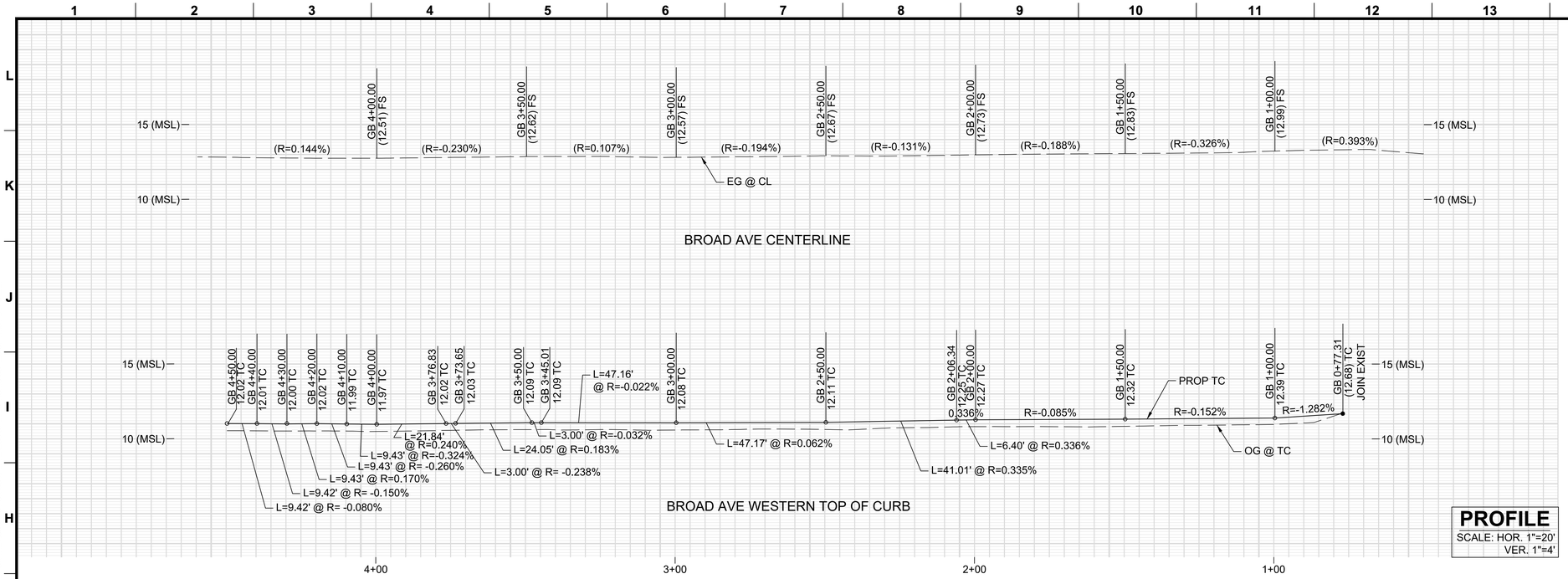
DRAWING NO.
CS-02

SHEET 5 OF 26 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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PROFILE

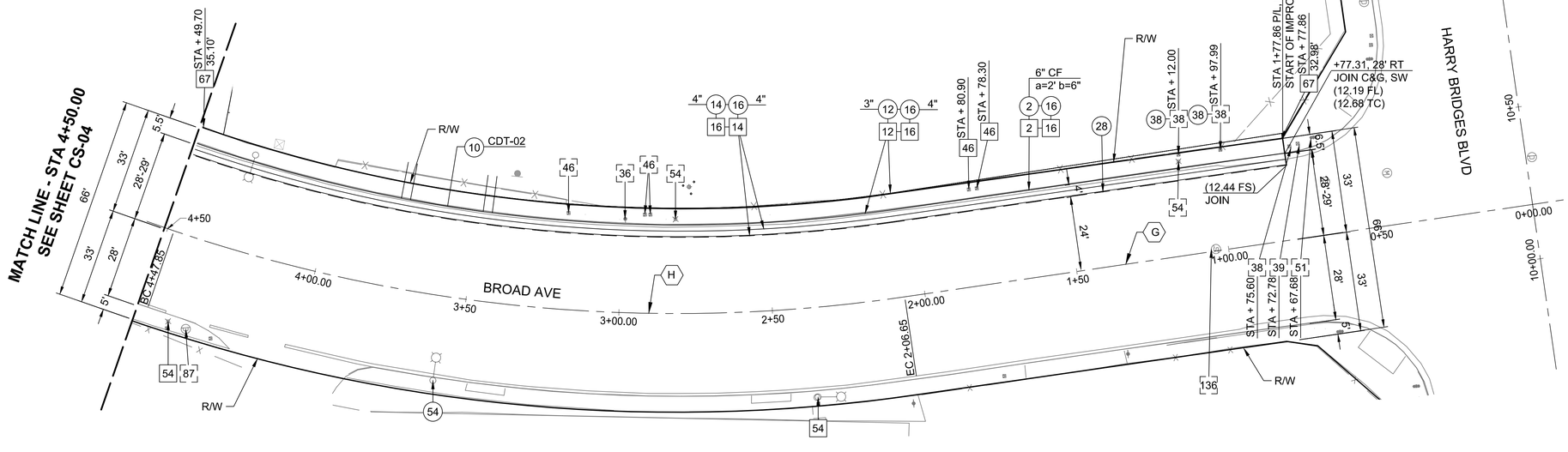
SCALE: HOR. 1"=20'
VER. 1"=4'

CONSTRUCTION SYMBOLS

- CONSTRUCT
- EXISTING PROTECT IN-PLACE
- REMOVE
- WORK BY OTHERS
- REMOVE & CONSTRUCT
- REMODEL EXISTING

CONSTRUCTION NOTES

2. TYPE C INTEGRAL CURB AND GUTTER a=AS NOTED, b=AS NOTED
10. CONCRETE DRIVEWAY
12. CONCRETE WALK, t=AS NOTED
14. ASPHALT CONCRETE PAVEMENT t= AS NOTED
16. CRUSHED MISCELLANEOUS BASE t= AS NOTED
28. JOINT
36. UTILITY POLE
38. STREET LIGHTING PULL BOX
39. TRAFFIC SIGNAL PULL BOX (SEE TRAFFIC SIGNAL PLANS)
46. WATER METER
51. TRAFFIC SIGNAL (SEE TRAFFIC SIGNAL PLANS)
54. LIGHT POLE
77. SAWCUT AND JOIN
87. CATCH BASIN
136. SEWER MAINTENANCE HOSE



STATION LINE/CURVE TABLE					
CURVE/LINE #	Δ	R	L	T	B
G				225.43	N03° 46' 54.00"W
H	54° 11' 50"	509.97	482.39	260.95	

PLAN

SCALE: 1"= 20'

20' 10' 0' 10' 20' 40'
GRAPHIC SCALE

100% REVIEW - NOT FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER
ERIC JOHNSON
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CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
ENGINEERING
CITY OF LOS ANGELES

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WORK ACCEPTED
SERIAL NO.

B - PERMITS
BR 600528

INDEX NO. P-12265

BUREAU OF ENGINEERING APPROVAL:
OFFICE: HARBOR DISTRICT
CHECKED BY: ALEJANDRO MORENO, P.E.
SIGNATURE:
DATE:

TYLIN
DESIGN GROUP
ENGINEER: ERIC JOHNSON
DESIGNED BY: JANET BUI
DRAWN BY: ABED ZARRUQ
CHECKED BY: ERIC JOHNSON
APPROVED BY: ERIC JOHNSON

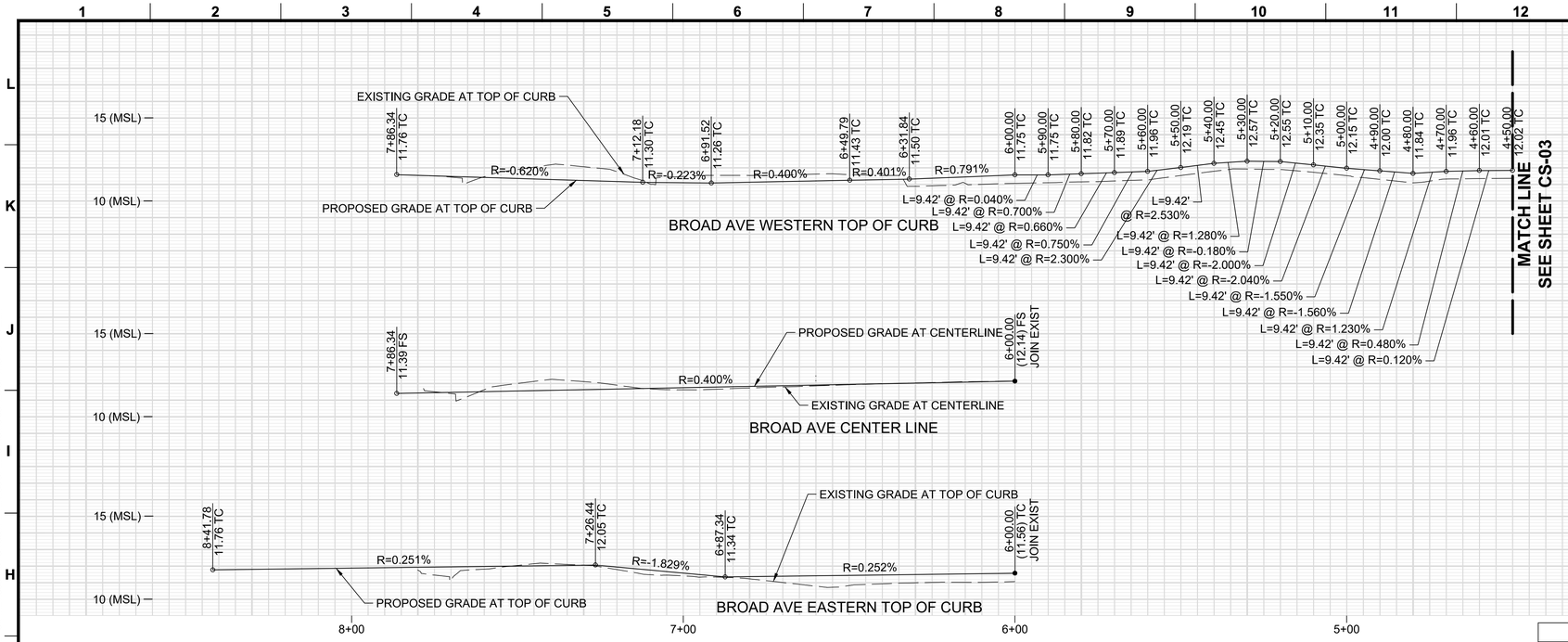
VERTICAL CONTROL: SEE BENCHMARK NO.1 AND BENCHMARK NO.2
HORIZONTAL CONTROL: SEE PLAN SHEETS FOR C/L REFERENCE

SHEET TITLE: BROAD AVE PLAN AND PROFILE
PROJECT: AVALON PROMENADE AND GATEWAY
ADDRESS: 127 NORTH BROAD AVENUE WILMINGTON, CA 90744

DRAWING NO.
CS-03
SHEET 6 OF 26 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



PROFILE

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

PLAN

SCALE: 1"= 20'

CONSTRUCTION SYMBOLS

- CONSTRUCT
- EXISTING PROTECT IN-PLACE
- REMOVE
- WORK BY OTHERS
- REMOVE & CONSTRUCT
- REMODEL EXISTING

CONSTRUCTION NOTES

2. TYPE C INTEGRAL CURB & GUTTER a= AS NOTED, b= AS NOTED, 6"CF
3. TYPE D MOUNTABLE CURB & GUTTER
10. CONCRETE DRIVEWAY
12. CONCRETE WALK, t=AS NOTED
14. ASPHALT CONCRETE PAVEMENT, t=AS NOTED
15. MOUNTABLE CURB TYPE D
16. CRUSHED MISCELLANEOUS BASE, t=AS NOTED
20. TREE
36. UTILITY POLE
37. POLE ANCHOR
38. STREET LIGHTING PULL BOX
54. LIGHT POLE
67. CHAIN LINK FENCE
70. GAS VALVE
71. WATER VALVE
77. SAWCUT AND JOIN
81. CURBSIDE GRATING BASIN
85. STORM DRAIN MAINTENANCE HOLE
86. WARPED GUTTER AT CATCH BASIN
87. CATCH BASIN
99. SIDE OPENING CATCH BASIN
100. CATCH BASIN REMODELING DETAILS
136. SEWER MAINTENANCE HOLE

STATION LINE/CURVE TABLE					
CURVE/LINE #	Δ	R	L	T	B
I	54° 11' 50"	509.97	482.39	260.95	
J	31° 32' 34"	210.00	114.88	59.92	
K			73.72		S71° 45' 19 W"
L			60.56		S50° 24' 56 W"
M	17° 22' 48"	49.86	15.13	7.62	
N	43° 33' 00"	49.91	37.94	19.94	
O	253° 07' 48"	58.51	258.48	78.88	
P	9° 43' 12"	36.99	6.27	3.14	
Q	19° 34' 48"	57.83	19.76	9.98	

REGISTERED PROFESSIONAL ENGINEER
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PHONE (949) 388-4950

100% REVIEW - NOT FOR CONSTRUCTION

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
ENGINEERING
CITY OF LOS ANGELES

VERTICAL CONTROL: SEE BENCHMARK NO.1 AND BENCHMARK NO.2	
HORIZONTAL CONTROL: SEE PLAN SHEETS FOR C/L REFERENCE	
SHEET TITLE:	BROAD AVENUE PLAN AND PROFILE SHEET 2 OF 2
PROJECT:	AVALON PROMENADE AND GATEWAY
ADDRESS:	127 NORTH BROAD AVENUE WILMINGTON, CA 90744

BUREAU OF ENGINEERING APPROVAL:
OFFICE: HARBOR DISTRICT
CHECKED BY: ALEJANDRO MORENO, P.E.
SIGNATURE: DATE:

NO.	REVISIONS:	DATE:	BY:

WORK ACCEPTED
SERIAL NO.

B - PERMITS
BR 600528

INDEX NO.

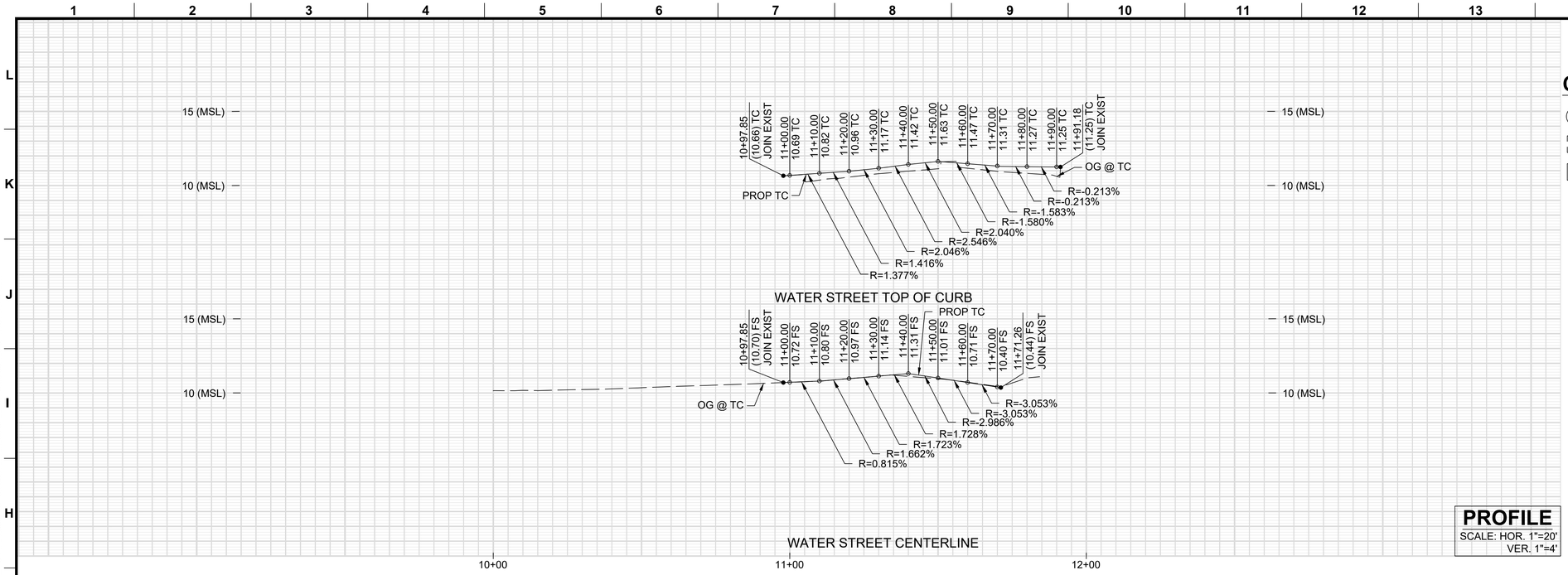
TYLin
DESIGN GROUP
ENGINEER: ERIC JOHNSON
DESIGNED BY: JANET BUI
DRAWN BY: ABED ZARRUQ
CHECKED BY: ERIC JOHNSON
APPROVED BY: ERIC JOHNSON

DRAWING NO.
CS-04
SHEET 7 OF 26 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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PROFILE

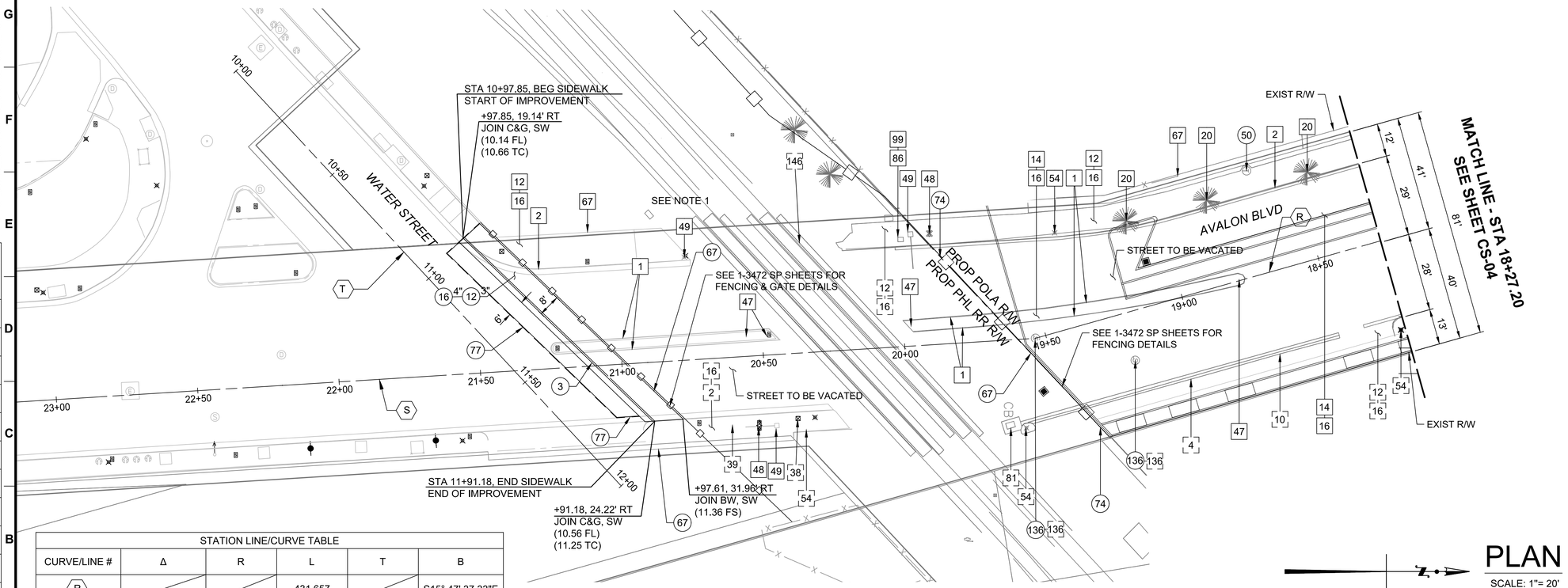
SCALE: HOR. 1"=20'
VER. 1"=4'

CONSTRUCTION SYMBOLS

- CONSTRUCT
- WORK BY OTHERS
- EXISTING / PROTECT IN-PLACE
- REMOVE & CONSTRUCT
- REMOVE
- REMODEL EXISTING

CONSTRUCTION NOTES

1. CONCRETE CURB
2. TYPE C INTEGRAL CURB & GUTTER
3. TYPE D MOUNTABLE CURB & GUTTER
4. CONCRETE GUTTER
10. CONCRETE DRIVEWAY
12. CONCRETE WALK
14. ASPHALT CONCRETE PAVEMENT
16. CRUSHED MISCELLANEOUS BASE
20. TREE
38. STREET LIGHTING PULL BOX
39. TRAFFIC SIGNAL PULL BOX
47. SIGN AND EMBEDDED POST
48. RAILROAD SIGNAL
49. RAILROAD CROSSING ARM
50. TELEPHONE MAINTENANCE HOLE
54. LIGHT POLE
67. CHAIN LINK FENCE
74. STEEL PICKET FENCE
75. SLIDING PICKET FENCE GATE
77. SAWCUT AND JOIN
81. CURBSIDE GRATING BASIN
86. WARPED GUTTER AT CATCH BASIN
99. SIDE OPENING CATCH BASIN
136. SEWER MAINTENANCE HOLE
146. RAILROAD CROSSING PANELS



STATION LINE/CURVE TABLE					
CURVE/LINE #	Δ	R	L	T	B
R			431.657		S15° 47' 37.33"E
S			129.197		S3° 34' 54.00" E
T			199.915		N47° 07' 41.99" E

PLAN

SCALE: 1"= 20'

GRAPHIC SCALE 20' 10' 0' 10' 20' 40'

REGISTERED PROFESSIONAL ENGINEER
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Exp. 06-30-26
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED BY:
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CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

ENGINEERING
CITY OF LOS ANGELES

B - PERMITS
BR 600528

INDEX NO. P-12265

NO.	REVISIONS:	DATE:	BY:

SERIAL NO.

WORK ACCEPTED

BUREAU OF ENGINEERING APPROVAL:
OFFICE: HARBOR DISTRICT
CHECKED BY: ALEJANDRO MORENO, P.E.
SIGNATURE: DATE:

VERTICAL CONTROL: SEE BENCHMARK NO.1 AND BENCHMARK NO.2
HORIZONTAL CONTROL: SEE PLAN SHEETS FOR C/L REFERENCE

SHEET TITLE: WATER ST PLAN AND PROFILE
PROJECT: AVALON PROMENADE AND GATEWAY
ADDRESS: 127 NORTH BROAD AVENUE WILMINGTON, CA 90744

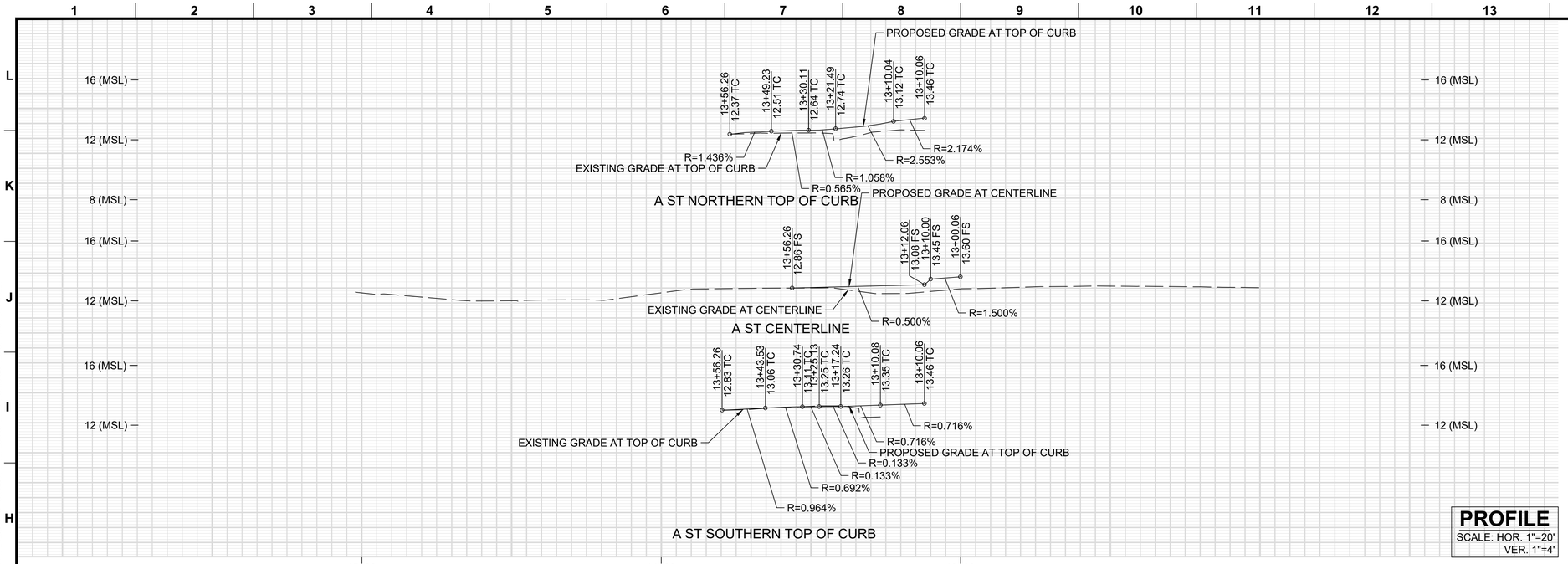
TYLIN
DESIGN GROUP
ENGINEER: ERIC JOHNSON
DESIGNED BY: JANET BUI
DRAWN BY: ABED ZARRUQ
CHECKED BY: ERIC JOHNSON
APPROVED BY: ERIC JOHNSON

DRAWING NO.
CS-05
SHEET 8 OF 26 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

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

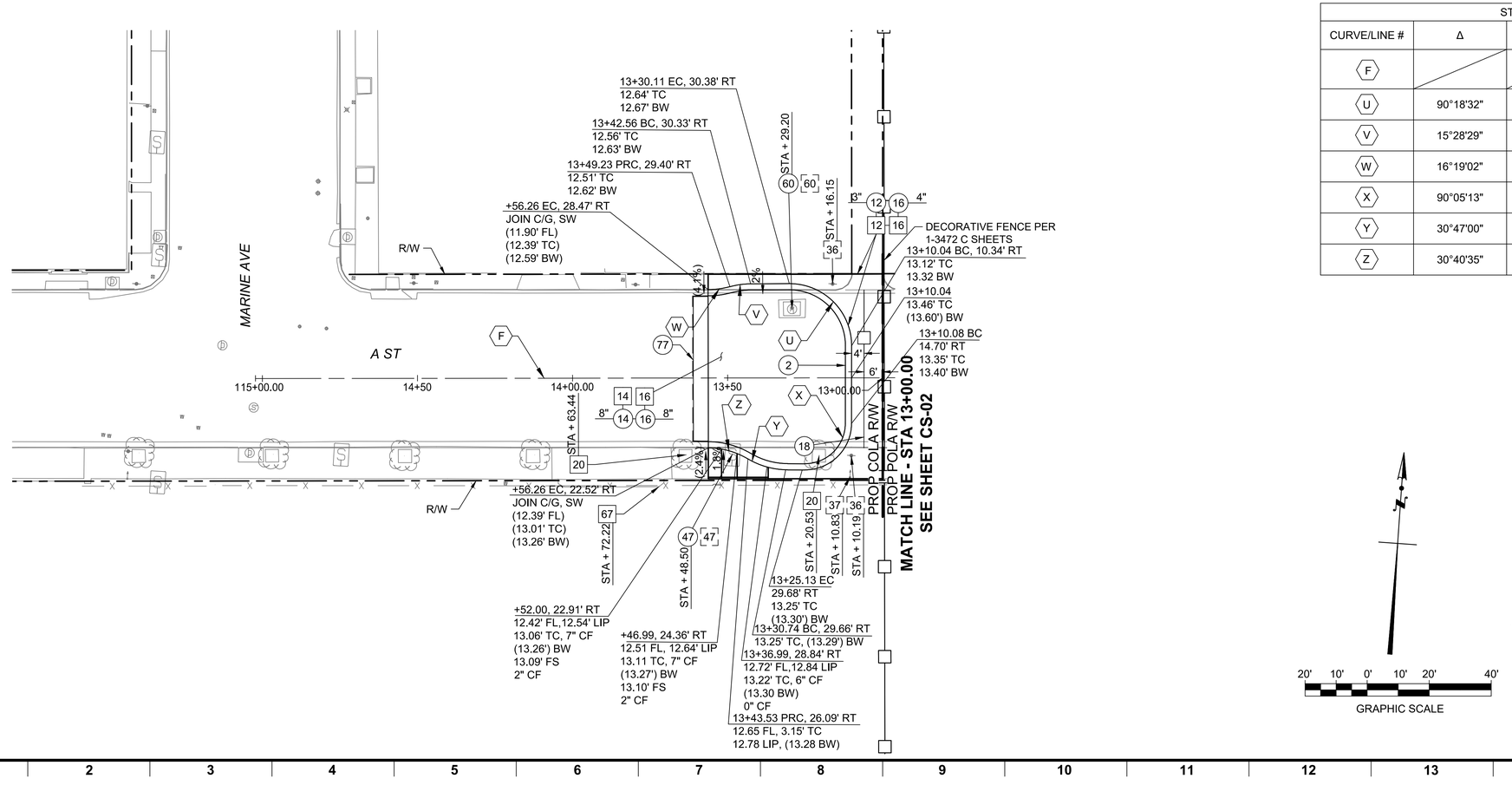
CONSTRUCTION SYMBOLS

- CONSTRUCT
- EXISTING PROTECT IN-PLACE
- REMOVE
- WORK BY OTHERS
- REMOVE & CONSTRUCT
- REMODEL EXISTING

CONSTRUCTION NOTES

2. TYPE C INTEGRAL CURB & GUTTER
12. CONCRETE WALK
14. ASPHALT CONCRETE PAVEMENT
16. CRUSHED MISCELLANEOUS BASE
18. METAL BEAM GUARDRAIL
20. TREE
36. UTILITY POLE
47. SIGN ON EMBEDDED POST
60. VAULT
67. CHAIN LINK FENCE
77. SAWCUT AND JOIN

STATION LINE/CURVE TABLE					
CURVE/LINE #	Δ	R	L	T	B
F			502.21		S86°20'35.56W
U	90°18'32"	20.000	31.52	20.108	
V	15°28'29"	25	6.75	3.397	
W	16°19'02"	25	7.12	3.584	
X	90°05'13"	15	23.59	15.023	
Y	30°47'00"	25	14.32	6.882	
Z	30°40'35"	25	13.43	6.857	



PLAN
SCALE: 1"= 20'

REGISTERED PROFESSIONAL ENGINEER
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No. C69305
Exp. 06-30-26
CIVIL
STATE OF CALIFORNIA

PLANS PREPARED BY:
TYLin
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IRVINE, CALIFORNIA 92618
PHONE:(949) 930-4900

CITY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

VERTICAL CONTROL: BENCHMARK NO. 2 ELEV. 0.000 (MSL)
HORIZONTAL CONTROL: SEE PLAN SHEETS FOR CAL REFERENCE

BUREAU OF ENGINEERING APPROVAL:
OFFICE: HARBOR DISTRICT
CHECKED BY: ALEJANDRO MORENO, P.E.
SIGNATURE: DATE:

SHEET TITLE: AVALON BLVD AND A ST REMODELING PLAN
PROJECT: AVALON PROMENADE AND GATEWAY
ADDRESS: 127 NORTH BROAD AVENUE WILMINGTON, CA 90744

DRAWING NO.
CS-06
SHEET 9 OF 26 SHEETS

DESIGN GROUP: TYLIN
ENGINEER: ERIC JOHNSON
DESIGNED BY: JANET BUI
DRAWN BY: ABED ZARRUQ
CHECKED BY: ERIC JOHNSON
APPROVED BY: ERIC JOHNSON

NO. | REVISIONS: | DATE | BY:
WORK ACCEPTED | SERIAL NO.

B - PERMITS BR 600528
INDEX NO. P-12265

ENGINEERING
CITY OF LOS ANGELES

REVISION DATES (DESIGN STAGE ONLY)

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ATTACHMENT 5

CITY OF LOS ANGELES

HARBOR DEPARTMENT



SPECIFICATIONS FOR

AVALON PEDESTRIAN BRIDGE AND
PROMENADE GATEWAY

SPECIFICATION NO. 2804

APPL. PORT. PERMITS NO. 160720-109

CONTRACT NO. _____

CONTRACTOR _____

AMOUNT $ _____

TIME TO COMMENCE _____

TIME TO COMPLETE _____

BOARD OF HARBOR COMMISSIONERS

TABLE OF CONTENTS
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.03	Proposal Irregularities and Alterations	1
.04	Proposal Signatures	1
.05	Proposal Guaranty	2
.06	Affidavit of Noncollusion	2
.07	Federal Excise Tax	2
.08	Retail Sales or Use Tax	3
.09	Duties	3
.10	Withdrawal of Bid	3
.11	Interpretations and Addenda	3
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.15	Mandatory Provisions Pertaining to Non-Discrimination in Employment	5
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Pipeline Test Report

01 The HARBOR DEPARTMENT of the CITY OF LOS ANGELES, California, invites electronic bids in accordance with Specification No. 2804 for AVALON PEDESTRIAN BRIDGE AND PROMENADE GATEWAY.

02 Project consists of construction of concrete cable supported pedestrian bridge and promenade gateway in accordance with Drawing Nos. 1-3302 and 1-3472. Work includes but is not limited to installation of prestressed concrete pile foundations, retaining wall, architectural features and finishes, site demolition and removals, grading, surcharge, landscaping, hardscaping, construction of restrooms, lighting, striping, signage, parking lots, and play area.

03 Contract Documents are available in Department's Web-based Bid Management System called "Construction Division Business Opportunity Network (CDBON)" utilizing an online bid management system at https://www.portoflosangeles.org/business/contracting-opportunities/construction-bids. Bidders shall be required to register to download Drawings, Specifications, Addenda, and other important documents. A plan holders list can be accessed without registering. For information concerning bids, call the Department at (310) 732-3522.

04 A pre-bid conference shall be held on _____ at 9 a.m. at the Port of Los Angeles Administrative Offices, Located at 425 South Palos Verdes Street, San Pedro, California 90731. Matters relating to the submittal of bids and other contents of Specifications shall be discussed. A job site walk inside the facilities shall be available for Bidders after the scheduled pre-bid conference.

05 Bids must be submitted online via Port Of Los Angeles CDBON system on or before 2:45 p.m. (PST/PDT) on _____ 2024 at which time, bid results shall be available for viewing.

06 Each bid must be accompanied by a scanned copy of the following: a check certified by a responsible financial institution, or a cashier's check issued by a responsible financial institution, or by a satisfactory bid bond, payable to the order of City of Los Angeles Harbor Department, for an amount not less than 10 percent of the aggregate sum of the bid, as a guarantee that Bidder shall enter into Contract if awarded, and furnish the required bonds. Bid bond shall be placed with insurance carriers which are rated VII, A- or better in Best's Insurance Guide. If a Best's Insurance Guide rating is not available, then the proposed carrier must meet comparable standards in another rating service satisfactory to City.

07 The provisions of Sections 10.8 through 10.11 and 10.13 of Los Angeles Administrative Code pertaining to nondiscrimination and affirmative action shall be a part of said Contract. Portions of these provisions are summarized in Subsections 00030.03 and 00030.04 of BIDDING DOCUMENTS Section which set forth requirements Bidder must acknowledge.

08 City of Los Angeles Harbor Department is committed to creating an environment that provides all individuals and businesses open access to the business opportunities available at Port of Los Angeles in a manner that reflects the diversity of City of Los Angeles. Port of Los Angeles Small Business Enterprise Program (SBEP or "Program") as defined in Subsection 00030.06 of BIDDING DOCUMENTS Section was created to provide additional opportunities for small businesses to participate in any and all contracts. It has been determined that based on Work to be performed in Contract, Small Business Enterprise participation shall be a minimum of _%, of which _% shall be Very Small Business Enterprise participation.

09 The first 3 apparent low Bidders shall submit the following documents with original signatures within 4 Business Days after bids are closed. Information from other Bidders shall be requested only if they are being considered for an Award of Contract. Other Bidders shall submit this information within 4 Business Days of receiving a written request from Engineer.

a Original of a check certified by a responsible financial institution, or a cashier's check, or bid bond in conformance with subsection 6 above.

b Affidavit of Noncollusion.

c Contractor/Supplier Information Form, refer to Subsection 00660.01.

d Subcontractor/Supplier Ownership Affidavit for each subcontractor and supplier, refer to Subsection 00660.02.

e Electrical Safety Policy form.

f CEC Form 50, prime contractor's certification.

g CEC Form 55 with subcontractor's and principals of subcontractor's information (if subcontractor and principal of subcontractor information were not submitted at time of bid). Failure to submit the information within 4 business days after bids are closed or within 4 business days after receiving written request from Engineer shall be cause to deem bid nonresponsive. Refer to BIDDING DOCUMENTS Section, Subsection 00030.07, Contract Solicitations Charter Section 470 (c) (12) Subsection, Paragraph C.

10 At time of bid, Bidders must be registered on City's Contracts Management and Opportunities Database, Regional Alliance Marketplace for Procurement (RAMP) – a free service provided by the Mayor's Office of Economic Development and the Minority Business Opportunity Committee.

Bidders, subcontractors, and suppliers identified in the bid submittal as SBE or VSBE must be certified at time of bid, as applicable. Bidders, subcontractors, and suppliers must submit a copy of SBE certificate or VSBE certificate from the agency utilized to obtain certification as SBE or as VSBE to Engineer with 4 Business Days of close of bids in order to be acknowledged within the bid as SBE or VSBE. Refer to https://kentico.portoflosangeles.org/getmedia/aea536e1-5d48-440a-8857-c55907e3dc74/contracting-proprietary-sbe-cert-application for certification instructions.

Within 30 Calendar Days after close of bids, subcontractors and suppliers must be registered on RAMP. In addition, within 30 Calendar Days after close of bids, Bidders, subcontractors, and suppliers identified in the bid submittals as SBE or VSBE must be verified on RAMP as SBE (Proprietary) or VSBE (Harbor), as applicable.

RAMP is accessible at https://www.rampla.org/s/. Bidders, subcontractors, and suppliers are advised that there is an application process required to become certified as SBE (Proprietary) and as VSBE (Harbor), and that time is of the essence.

11 Contract may be awarded at any time during a period of 90 Calendar Days after date of close of bids. The right is reserved to reject any and all bids.

12 The successful Bidder shall possess an active Class A California Contractor's License at the time of Award.

13 The successful Bidder shall, within 14 Calendar Days after Notice of Award, provide acceptable bonds and insurance on the forms provided as required in CONTRACT Section and GENERAL CONDITIONS Section.

14 The successful Bidder shall, within 30 Calendar Days after Notice of Award, enter into the written Contract.

15 A performance bond in the amount of the full Contract price shall be provided. A payment bond in the amount of 100 percent of Contract price shall also be provided in case of an award in excess of $25,000. Performance bond and payment bond shall be placed with insurance carriers which are rated VII, A- or better in Best's Insurance Guide. If a Best's Insurance Guide rating is not available, then the proposed carrier must meet comparable standards in another rating service satisfactory to City. Bidders may be eligible for participation in City's Bond Assistance Program referenced in Subsection 00022.18.

16 The prevailing rate of per diem wages and rates for legal holidays and overtime work for each craft, classification or type of workers needed in the execution of any contract to let under Specifications has been determined by the Director of the Department of Industrial Relations of the State of California pursuant to the provisions of the Labor Code of the State of California. Copies of the applicable Determinations by the said Director are on file in Construction Division and are hereby incorporated and made a part hereof as though the same were fully set forth in this Section. The State of California has approved City's Labor Compliance Program of enforcement of State prevailing wage laws and shall allow City to retain all penalty assessments for violation of these laws.

17 Pursuant to notice requirements effective January 1, 2015, all contractors and subcontractors must register with and meet requirements of the State of California Department of Industrial Relations using the online application before bidding on public works contracts in California. For the online application, visit http://www.dir.ca.gov/Public-Works/PublicWorks.html.

a No contractor or subcontractor may be listed on a bid proposal for a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 (with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1[a]).

b No contractor or subcontractor may be awarded a contract for public work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

c Project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

18 In accordance with Board of Harbor Commissioners' Resolution No. 6315, Electrical Safety Policy, adopted October 27, 2004, the successful Bidder shall comply with the required qualifications for jobsite workers, as specified in BASIC ELECTRICAL MATERIALS AND METHODS Section (PART 1, Quality Assurance Article, Paragraph B, Jobsite Workers and subparagraphs).

19 Board of Harbor Commissioners of City of Los Angeles adopted Resolution No. 6328 on January 12, 2005, agreeing to adopt the provisions of Los Angeles City Ordinance 172,908, as amended, relating to Equal Benefits (Section 10.8.2.1. et seq. of Los Angeles Administrative Code) as a policy of Harbor Department. Contractor shall comply with the policy detailed in Subsection 00030.05 Equal Benefits Ordinance Compliance Affidavit of BIDDING DOCUMENTS Section.

20 In accordance with Board of Harbor Commissioners' Resolution No. 17-8164, Approval of Port-Wide Project Labor Agreement (PLA), adopted September 7, 2017, and in accordance with Board of Harbor Commissioners' Resolution Nos. 18-8319 and 18-8320, approval of Construction Careers Policy, adopted July 17, 2018, included as Appendix "A" of Specifications, Contractor and all subcontractors, prior to start of Work, shall sign a Letter of Assent (Attachment A of Appendix "A") agreeing to the terms of PLA. Contractor shall further comply with the terms of Attachment "B" (Drug and Alcohol Testing Policy) and fill out Attachment "C" (Request/Verification for Craft Employees) during the course of Project.

21 Harbor Department strives to work cooperatively with Contractor through partnering. Refer to SUPPLEMENTARY CONDITIONS Section for partnering language and requirements.

22 Iran Contracting Act of 2010: Harbor Department shall enforce Iran Contracting Act of 2010 requirement provisions included as Subsection 00030.08 of BIDDING DOCUMENTS Section of Specifications. Bidder shall fill out and submit at time of bid Iran Contracting Act of 2010 Compliance Affidavit included as Subsection 00030.9 of BIDDING DOCUMENTS Section of Specifications.

23 Project is state funded by the Port and Freight Infrastructure Program (PFIP) through California State Transportation Agency (CalSTA) (Senate Bill 198 (SB 198; Section 13 of Chapter 71, Statutes of 2022)). To comply with this funding, state requirements are incorporated in Specifications.

24 Since this Project has state funding, it is exempt from Local Business Preference Program and no preference shall apply.

25 Submit questions to https://www.portoflosangeles.org/business/contracting-opportunities/construction-bids . Questions submitted less than 2 Business Days before close of bids may or may not be answered as time permits. Responses to questions shall be posted on Construction Division Business Opportunity Network (CDBON) at https://www.portoflosangeles.org/business/contracting-opportunities/construction-bids . The responses to questions may be updated at any time prior to the day bids are due. This shall be the only means used to communicate with Bidders other than by addendum. Department assumes no liability for Bidder's failure to attend the pre-bid conference or to review Construction Division Business Opportunity Network to obtain responses to Bidder's questions.

EUGENE D. SEROKA
Executive Director

Dated _____

01 GENERAL

a Information in this Section supplements or further explains information in NOTICE INVITING BIDS Section.

02 FORM OF PROPOSAL

a Bids shall be tendered online via CDBON, in conformance with Subsection 00012.03 of NOTICE INVITING BIDS Section.

b All required fields in Bid Proposal Line Items shall be filled in on the forms provided online.

c All documents listed in Subsection 00022.21, “Bidder’s Check List”, shall be submitted in conformance with the instructions provided in Subsection 00022.21.

03 PROPOSAL IRREGULARITIES AND ALTERATIONS

a Bidders are prohibited from altering BIDDING DOCUMENTS Section. Any alterations or changes made to BIDDING DOCUMENTS Section shall render the bid informal and subject to rejection.

04 PROPOSAL SIGNATURE(S)

a If the bid is made by an individual, the signature must be the full name of Bidder, whose address must be given.

b If the bid is made by a partnership, it must be signed by each partner or accompanied by proof that the persons signing the bid are authorized to bind the partnership. The name and address of the partnership and the address of the persons signing must be provided.

c If the bid is made by a corporation, it must be signed by a person authorized to do so by bylaw or resolution of that corporation.

d A corporation submitting a bid may be required, before Contract is finally awarded, to furnish a certificate as to its corporate existence, and satisfactory evidence as to the officers or officer authorized to execute the bid on behalf of the corporation.

05 PROPOSAL GUARANTY

a The bid shall be accompanied by a scanned copy of the following documents: A certified check or a cashier's check issued by a responsible financial institution, payable to the order of City of Los Angeles Harbor Department, or by a satisfactory bond, for an amount equal to at least 10 percent of the total amount of the bid, as a guaranty that the Bidder shall, within thirty (30) Calendar Days after Notice of Award, enter into Contract with City and furnish all required bonds for Work contemplated. The originals shall be submitted with the documents listed in Subsection 00012.09 of NOTICE INVITING BIDS Section.

b If a certified or cashier's check is tendered as a proposal guaranty, Bid Bond form may be disregarded. In all other instances, the bond form provided with BIDDING DOCUMENTS Section shall be signed by the Bidder and its surety(ies).

c Upon execution of Contract and provision of the necessary bond(s) and insurance by the successful Bidder, the check or the amounts thereof and the bonds of the unsuccessful Bidders shall be returned or released.

06 AFFIDAVIT OF NONCOLLUSION

a Affidavit of Noncollusion form provided with BIDDING DOCUMENTS Section, properly executed, a scanned copy must be submitted with the bid. The signature on the affidavit must be subscribed and sworn to before a notary public.

b Any bid made without such affidavit, shall not be considered. Any Bidder making a false affidavit may be excluded from future bidding on contracts with City.

c If at any time it is found that the person, firm, or corporation, to whom Award of Contract has been made, did, in submitting the bid, collude with any other party or parties, then Contract shall be voided. Work shall be re-advertised. Contractor and Contractor's bondspersons shall be held liable to City for all loss or damage which it may suffer thereby.

d The original shall be submitted with the documents listed in Specifications as Subsection 00012.09 of NOTICE INVITING BIDS Section.

07 FEDERAL EXCISE TAX

a Prices quoted by Bidder shall be exclusive of federal excise taxes pursuant to exemption of political subdivisions of a State under federal law.

b City, when requested, shall furnish Contractor a Certificate of Exemption from federal excise tax covering materials and equipment to be furnished pursuant to Specifications.

08 RETAIL SALES OR USE TAX

a Purchases under Specifications are subject to the full application of California State and Los Angeles City and County sales or use tax.

b Prices quoted in BIDDING DOCUMENTS Section shall be construed as including all applicable taxes regardless of whether or not sales or use tax is stated separately by Bidder.

09 DUTIES

a Prices quoted by Bidder shall include all applicable duties, including import duties.

10 WITHDRAWAL OF BID

a A Bidder may withdraw a bid, without prejudice, at any time prior to bid closing. The Withdraw button on the CDBON online system shall become available from the time a bid is submitted to any time prior to the close of bids.

11 INTERPRETATIONS AND ADDENDA

a Should a prospective Bidder find discrepancies in or omissions from Specifications or other Contract Documents, or should there be doubt as to their intended meaning, Bidder may submit to Engineer a written request for an interpretation and clarification. Bidder submitting the request is responsible for the prompt delivery and timeliness of any such request.

b Any interpretation of or change in Contract Documents shall be made only by addendum issued to each person or entity to whom Specifications have been issued, and shall become a part of any contract awarded. City shall not be responsible for any oral or other explanations or interpretations. Receipt of any such addenda by Bidder must be acknowledged on Proposal form in the space provided.

12 BIDDERS TO INVESTIGATE

a Bidder's submittal of a bid constitutes its acknowledgement that Bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality and quantities of Work to be performed and materials to be furnished, and as to the requirements of Specifications. The submission of the bid shall constitute prima facie evidence that Bidder has made such examination.

13 EXISTING INFORMATION

a Engineer shall make available to all prospective Bidders, prior to the receipt of bids, all information in possession of Department as to subsoil conditions in the vicinity of Work, topographical maps, or other information that might assist Bidder in properly evaluating the amount and character of Work that may be required. Any additional subsurface exploration shall be done at Bidder's sole cost and expense.

14 SUBCONTRACTS

a Section 10.14 (as amended) of Los Angeles Administrative Code requires each Bidder to submit with the bid the names and addresses of subcontractors whose Work shall be in excess of one-half of 1 percent of Bidder's total bid or $10,000, whichever is greater, and shall indicate that portion of Work which shall be done by each subcontractor so listed. The successful Bidder shall make no substitutions of subcontractors so listed except as provided for in said ordinance. For the purpose of Article 15, the terms and definitions of Section 10.14 (as amended) of Los Angeles Administrative Code shall apply.

b Not more than 50 percent of the monetary value of Work shall be subcontracted. The listing of more than 50 percent may result in the rejection of the bid.

c Bidder shall be fully responsible to City for its acts and/or omissions and for the acts and/or omissions of persons directly employed by the Bidder. Additionally, Bidder shall be fully responsible to City for the acts and/or omissions of subcontractors and of persons or entities either directly or indirectly employed by subcontractors. Nothing contained in Contract Documents shall create or be construed as creating a contractual relationship between any subcontractor of Bidder and City.

d Each Bidder must complete, sign, notarize, and submit as part of the bid Contractor Ownership / RAMP Outreach / Local Business Enterprise Affidavit included in Specifications as Subsection 00030.11 of BIDDING DOCUMENTS Section. Each Bidder shall also submit with the bid the subcontractor list entered online as provided on CDBON.

15 MANDATORY PROVISIONS PERTAINING TO NON-DISCRIMINATION IN EMPLOYMENT

Unless otherwise exempt, this Contract is subject to the applicable non-discrimination, equal benefits, equal employment practices, and affirmative action program provisions in Los Angeles Administrative Code (LACC) Section 10.8 et seq., as amended from time to time.

a Contractor shall comply with the applicable non-discrimination and affirmative action provisions of the laws of the United States of America, the State of California, and City. In performing this Contract, Contractor shall not discriminate in any of its hiring or employment practices against any employee or applicant for employment because of such person's race, color, religion, national origin, ancestry, sex, sexual orientation, gender, gender identity, age, disability, domestic partner status, marital status or medical condition.

b The requirements of Section 10.8.2.1 of the LAAC, the Equal Benefits Ordinance, and the provisions of Section 10.8.2.1(f) are incorporated and made a part of this Contract by reference.

c The provisions of Section 10.8.3 of the LAAC are incorporated and made a part of this Contract by reference and shall be known as the "Equal Employment Practices" provisions of this Contract.

d The provisions of Section 10.8.4 of the LAAC are incorporated and made a part of this Contract by reference and shall be known as the "Affirmative Action Program" provisions of this Contract.

16 SMALL, VERY SMALL, MINORITY, WOMEN, DISABLED VETERAN, AND OTHER BUSINESS ENTERPRISE (SBE/VSBE/MBE/WBE/DVBE/OBE)

a It is the policy of City of Los Angeles to provide Small Business Enterprises (SBE) and Very Small Business Enterprises (VSBE), including Minority Business Enterprises (MBEs), Women Business Enterprises (WBEs), Disabled Veteran Business Enterprise (DVBE), and Other Business Enterprises (OBEs) an equal opportunity to participate in the provision of goods and services under Contract. Department strongly encourages Contractor to include MBE, WBE, and DVBE participation to the fullest extent possible.

b To be eligible for an award of contract, each Bidder shall complete, sign, notarize, and submit as part of the bid Contractor Ownership / RAMP Outreach / Local Business Enterprise Affidavit included in Specifications as Subsection 00030.11 of BIDDING DOCUMENTS Section.

00022.16 Cont'd.

c As part of the bid, each Bidder shall complete and submit subcontractor list in CDBON. As part of the bid, each Bidder shall complete and upload into CDBON the Supplier List in Subsection 00660.03 of SBE/VSBE/MBE/WBE/DVBE/OBE INFORMATION Section listing suppliers necessary to meet SBE/VSBE participation requirements in conformance with Subsection 00030.06 of BIDDING DOCUMENTS Section.

d Within 4 Business Days after bids are closed, each Bidder shall submit Contractor/Supplier Information Form included in Specifications as Subsection 00660.01 of SBE/VSBE/MBE/WBE/DVBE/OBE INFORMATION Section.

e Contractor Ownership / RAMP Outreach / Local Business Enterprise Affidavit and Contractor/Supplier Information Form when signed, shall signify Bidder's intent to comply with Small Business Enterprise Program described in Specifications.

f In accordance with Section 4104 of the Public Contracting Code of the State of California, as amended, information is required to be entered in CDBON for each subcontractor who shall perform Work (including Contingency and Allowance Item Work) amounting to more than one half of one percent (0.5%) of the Total Base Bid or $10,000 (whichever is greater).

17 AWARD OF CONTRACT

a Award of Contract shall be in accordance with the provisions of this Subsection.

1 Award of Contract, if award is to be made, shall be to the lowest and best regular, responsible Bidder furnishing satisfactory security for its performance and complying with Small Business Requirement taking into account the Local Business Preference, if applicable.

2 The right is reserved to reject any and all bids, or to reject any item or items therein and to waive any informality in the bid.

b Bidder to be awarded Contract must be capable of performing the various items of Work bid upon. Bidders may be required to submit, before Award of Contract, satisfactory evidence covering experience on similar Work, a list of machinery, plant, and other equipment available for the proposed Work, and such statements of their financial resources as may be deemed necessary. If the available evidence of competency of any Bidder is not satisfactory, the bid of such Bidder shall be rejected.

00022.17 Cont'd.

c City may reject bids which have prices shown on Bid Proposal Line Items that are obviously unbalanced.

d The bid of any party who has been delinquent or unfaithful in the performance of any former contract with City may be rejected.

18 BOND ASSISTANCE PROGRAM

a The Bond Assistance Program (BAP) is designed to assist small, local, minority, women, and disadvantaged businesses in removing potential barriers of surety bonding by providing technical, administrative assistance, and other resources to these companies. For information on BAP, please contact Tricia Carey at (310) 732-7656 or email tcarey@portla.org.

19 RELEASE OF PUBLIC RECORDS

a City seeks to conduct its business publicly. The law generally provides that information given to City is a public record. In limited circumstances, information such as trade secrets and certain financial data may be treated confidentially. Bidder should be aware that the information provided to City may be available for public review. Therefore, information which Bidder desires to retain as confidential should not be produced unless expressly requested by City. If City receives a request to produce such information, it shall notify Bidder of such request. If Bidder instructs that the information not be released, City shall withhold the information provided Bidder expeditiously seeks and successfully obtains a court protective order to prevent such a release.

20 BUSINESS TAX

a In accordance with City of Los Angeles Municipal Code, a Business Tax Registration Certificate (BTRC) must be obtained and a business tax must be paid by every person engaged in business as a contractor in City of Los Angeles. Contractor shall obtain a BTRC number and pay tax due to City of Los Angeles Office of Finance, (844) 663-4411. BTRC number must be clearly shown on all invoices submitted for payment.

21 BIDDERS CHECK LIST

a Bidders may use the following checklist to verify BIDDING DOCUMENTS Section has been completed.

b Please check under the appropriate column:
*Upload: Complete included document, attach supporting documents as indicated, scan, and upload to the CDBON online system. Hard copies are to be submitted within 4 Business Days of bid closing.
**Online: Enter information directly into online form in the CDBON online system.

		Upload*	Online**
1	PROPOSAL GUARANTY*		
(a)	Is the amount at least 10% of the total bid?	_____	
(b)	If surety bond, is it properly filled in and signed by surety?	_____	
(c)	If certified or cashier's check, is it enclosed with bid?	_____	
2	AFFIDAVIT OF NONCOLLUSION*		
(a)	Is affidavit properly filled in and signed?	_____	
(b)	Is affidavit notarized?	_____	
3	EQUAL BENEFITS ORDINANCE COMPLIANCE AFFIDAVIT*		
(a)	Is the affidavit completed and signed?	_____	
(b)	Are the forms enclosed with the bid?	_____	
4	CONTRACT SOLICITATIONS CHARTER SECTION 470 (c) (12)*		
(a)	Are City Ethics Commission (CEC) Forms 50 and 55 completed and signed? (If CEC Form 55 is submitted without subcontractor information, Bidder shall submit updated CEC Form 55 as stated in NOTICE INVITING BIDS Section.)	_____	
(b)	Are the forms enclosed with the bid?	_____	
5	IRAN CONTRACTING ACT OF 2010 COMPLIANCE AFFIDAVIT*		
(a)	Is the affidavit completed and signed?	_____	
(b)	Is the affidavit enclosed with the bid?	_____	

000022.21 Cont'd.

		Upload*	Online**
6	CONTRACTOR OWNERSHIP / RAMP OUTREACH/ LOCAL BUSINESS ENTERPRISE AFFIDAVIT*		
	(a) Is affidavit properly filled in and signed?	_____	
	(b) Is affidavit notarized?	_____	
7	SUBCONTRACTOR/SUPPLIER INFORMATION*/**		
	(a) Has Bidder listed the name and business address of each applicable subcontractor?		_____
	(b) Has Bidder included the dollar amount in the appropriate column for each subcontractor?		_____
	(c) Has Bidder accurately described Work to be done by said subcontractor(s)?		_____
	(d) Has Bidder completed Supplier List in Subsection 00660.03?	_____	
8	PROPOSAL**/*		
	(a) Has Bidder acknowledged receipt of addendum/addenda?		_____
	(b) Is Bidder's contractor's license number and expiration date provided?	_____	
	(c) Is proposal properly signed and dated?	_____	
	(d) Has Bidder inserted its Tax Identification Number?	_____	
	(e) Has Bidder identified the type of business and named the Partners or Corporate Officers?	_____	
	(f) Has Bidder completed and signed the Headquarters Location Form?	_____	
9	BID PROPOSAL LINE ITEMS**		
	(a) Has Bidder filled in a price for each bid item?		_____

END OF SECTION

01 BID BOND

*Bond portion of form need not be executed when bid is accompanied by a certified check or a cashier's check issued by a responsible financial institution.

WE, the undersigned principal and surety _____ acknowledge ourselves jointly and severally bound to City of Los Angeles, in the sum of _____ dollars ($ _____) to be paid to said City if the foregoing bid shall be accepted and the proposed contract awarded to said Bidder, and said Bidder shall fail to execute Contract and furnish and execute such bond(s) as are specified in the foregoing NOTICE INVITING BIDS Section; otherwise, this obligation be void.

Dated:_____, 20____.

Bidder's Name_____

By _____

_____

_____

(Surety) _____

(Surety) _____

NOTE: Surety must be in the form of a certified check, cashier's check, or a corporate surety bond. A personal surety bond is not acceptable. Annual bidder's bonds are acceptable. Cash is acceptable although not recommended.

If a check is submitted, state number _____

and amount $_____.

If an annual bid bond is used, state name of company_____

bond number _____

and unencumbered amount _____.

02 AFFIDAVIT OF NONCOLLUSION

STATE OF _____
COUNTY OF _____
_____, being first duly sworn, composes and says that Bidder is

_____
(insert "sole owner", "partner", "president", "secretary", or other proper title) of _____

_____
(insert name of Bidder)
who submits herewith to City of Los Angeles the attached bid:

(1) That Bidder is the person whose name is signed to the hereto attached Proposal form; that said bid is genuine; that the same is not sham or collusive; that all statements of fact therein are true; that such proposal was not made in the interest of or behalf of any person, partnership, company, association, organization or corporation not therein named or disclosed.

(2) That Bidder has not directly or indirectly by agreement, communication, or conference with anyone attempted to induce action prejudicial to the interests of the public body which is to award Contract or any other bidder, or anyone else interested in the proposed Contract; that Bidder has not in any manner sought by collusion to secure an advantage over any other bidder.

(3) That prior to the date and time of deadline for bid submittal the said Bidder:

(a) did not, directly or indirectly, induce or solicit anyone else to submit a false or sham bid;

(b) did not, directly or indirectly, collude, conspire, connive or agree with anyone else that said Bidder or anyone else would submit a false or sham bid, or that anyone should refrain from bidding or withdraw bid;

(c) did not, directly or indirectly, submit the bid price entered on the attached Bid Proposal Line Items form or any breakdown thereof, or the contents thereof, or divulge information or data relative thereto, to any corporations, partnership, company, association, organization, bid depository, or to any member or agent thereof, or to any individual or group of individuals, except to the awarding authority or to any person or persons who have a partnership or other financial interest in the business of said Bidder.

Signed:

_____
(Title)

Subscribed and sworn to before me

this ____day of_____, 20__
(Seal of Notary)

_____
Signature of Notary

03 MANDATORY PROVISIONS PERTAINING TO NON-DISCRIMINATION IN EMPLOYMENT

Pursuant to Los Angeles Charter and Administrative Code, Division 10 Chapter 1, Article 1, Section 10.8 et seq. it is the policy of City of Los Angeles to require each person or entity contracting for goods or services to comply with the Non-discrimination, Equal Employment practices, and Affirmative Action Program provisions of City of Los Angeles.

Sec. 10.8 Mandatory Provisions Pertaining to Non-discrimination in Employment in the Performance of City Contracts.

The City of Los Angeles, in letting and awarding contracts for the provision to it or on its behalf of goods or services of any kind or nature, intends to contract only with those contractors that comply with the non-discrimination and affirmative action provisions of the laws of the United States of America, the State of California and the City of Los Angeles. The City and each of its awarding authorities shall therefore require that any person, firm, corporation, partnership or combination thereof that contracts with the City for services, materials or supplies, shall not discriminate in any of its hiring or employment practices, shall comply with all provisions pertaining to non-discrimination in hiring and employment, and shall require Affirmative Action Programs in contracts in accordance with the provisions of this Code. The awarding authority and/or Office of Contract Compliance of the Department of Public Works shall monitor and inspect the activities of each contractor to determine that they are in compliance with the provisions of this chapter.

Although in accordance with Section 22.359 of this Code, the Board of Public Works, Office of Contract Compliance, is responsible for the administration of the City's Contract Compliance Program, accomplishing the intent of the City in contract compliance and achieving non-discrimination in contractor employment shall be the continuing responsibility of each awarding authority. Each awarding authority shall use only the rules, regulations and forms provided by the Office of Contract Compliance to monitor, inspect or investigate contractor compliance with the provisions of this chapter.

00030.03 Cont'd.

Each awarding authority shall provide immediate notification upon award of each contract by that awarding authority to the Office of Contract Compliance. Each awarding authority shall call upon the Office of Contract Compliance to review, evaluate and recommend on any contractual dispute or issue of noncompliance under the provisions of this chapter. The Office of Contract Compliance shall be notified by each awarding authority of any imminent announcement to bid, to allow the Office of Contract Compliance the opportunity to participate with the awarding authority in the monitoring, review, evaluation, investigation, audit and enforcement of the provisions of this chapter in accordance with the rules, regulations and forms promulgated to implement the City's Contract Compliance, Equal Employment Practices Program.

Sec. 10.8.1. Definitions.

Except for Section 10.8.2.1, the following definitions shall apply to the following terms used in this article:

"Awarding Authority" means any Board or Commission of the City of Los Angeles, or any authorized employee or officer of the City of Los Angeles, including the Purchasing Agent of the City of Los Angeles, who makes or enters into any contract or agreement for the provision of any goods or services of any kind or nature whatsoever for, or on behalf of, the City of Los Angeles.

"Contract" means any agreement, franchise, lease or concession, including agreements for any occasional professional or technical personal services, for the performance of any work or service, the provision of any materials or supplies, or the rendition of any service to the City of Los Angeles or to the public, which is let, awarded or entered into with, or on behalf of, the City of Los Angeles or any Awarding Authority thereof. Contracts where the provisions of this article would conflict with federal or state grant funded contracts, or conflict with the terms of the grant or subvention, as determined by the DAA, are exempt.

"Contractor" means any person, firm, corporation, partnership or any combination thereof, who enters into a contract with any Awarding Authority of the City of Los Angeles.

"Designated Administrative Agency (DAA)" means the Department of Public Works, Office of Contract Compliance created by Article X of Chapter 13 of Division 22 of the Los Angeles Administrative Code. That office is also known as the Department of Public Works, Bureau of Contract Administration.

00030.03 Cont'd.

"Domestic Partners" means, for purposes of this article, any two adults, of the same or different sex, who have registered with a governmental entity pursuant to state or local law authorizing this registration or with an internal registry maintained by an employer of at least one of the domestic partners.

"Employment Practices" means any solicitation of, or advertisement for, employees, employment, change in grade or work assignment, assignment or change in place or location of work, layoff, suspension or termination of employees, rate of pay or other form of compensation including vacation, sick and compensatory time, selection for training, including apprenticeship programs, any and all employee benefits and activities, promotion and upgrading, and any and all actions taken to discipline employees for infractions of work rules or employer requirements.

"Minority" is defined to mean "minority person" as the phrase is defined in Subsection (f) of Section 2000 of the California Public Contract Code, as amended from time to time.

"Subcontractor" means any person, firm or corporation or partnership, or any combination thereof, who enters into a contract with a Contractor to perform or provide a portion or part of any Contract with the City.

Sec. 10.8.1.1. Summary of Thresholds.

The following thresholds will be used to determine the non-discrimination and affirmative action requirements set forth in this chapter for each type of contract.

Non-discrimination Practices as outlined in Section 10.8.2 of this Code apply to all contracts.

Equal Employment Practices as outlined in Section 10.8.3 of this Code apply to all construction contracts of $1,000 or more and all non-construction contracts of $1,000 or more.

Affirmative Action Program as outlined in Sections 10.8.4 and 10.13 of this Code applies to all Construction Contracts of $25,000 or more and all non-Construction Contracts of $25,000 or more.

00030.03 Cont'd.

Sec. 10.8.2. All Contracts: Non-discrimination Clause.

Notwithstanding any other provision of any ordinance of the City of Los Angeles to the contrary, every Contract which is let, awarded or entered into with or on behalf of the City of Los Angeles, shall contain by insertion therein a provision obligating the Contractor in the performance of such Contract not to discriminate in his or her Employment Practices against any employee or applicant for employment because of the applicant's race, color, religion, national origin, ancestry, sex, sexual orientation, age, disability, marital status, domestic partner status or medical condition. All Contractors who enter into such Contracts with the City shall include a like provision in all subcontracts awarded for work to be performed under the Contract with the City. Failure of the Contractor to comply with this requirement or to obtain the compliance of its Subcontractors with such obligations shall subject the Contractor to the imposition of any and all sanctions allowed by law, including, but not limited to, termination of the Contractor's Contract with the City. Nothing contained in this Contract shall be construed in any manner so as to require or permit any act which is prohibited by law.

Sec. 10.8.2.1. Equal Benefits Ordinance.

(a) Legislative Findings. The City awards many contracts to private firms to provide services to the public and to City government. Many City contractors and subcontractors perform services that affect the proprietary interests of City government in that their performance impacts the success of City operations. The City holds a proprietary interest in the work performed by many employees employed by City contractors and subcontractors. In a very real sense, the success or failure of City operations may turn on the success or failure of these enterprises, for the City has a genuine stake in how the public perceives the services rendered for them by these businesses.

Discrimination in the provision of employee benefits between employees with domestic partners and employees with spouses results in unequal pay for equal work. Los Angeles law prohibits entities doing business with the City from discriminating in employment practices based on marital status and/or sexual orientation. The City's departments and contracting agents are required to place in all City contracts a provision that the company choosing to do business with the City agrees to comply with the City's nondiscrimination laws.

00030.03 Cont'd.

It is the City's intent, through the contracting practices outlined in this Ordinance, to assure that those companies wanting to do business with the City will equalize the total compensation between similarly situated employees with spouses and with domestic partners. The provisions of this Ordinance are designed to ensure that the City's contractors will maintain a competitive advantage in recruiting and retaining capable employees, thereby improving the quality of the goods and services the City and its people receive, and ensuring protection of the City's property.

(b) Definitions. For purposes of the Equal Benefits Ordinance only, the following shall apply.

(1) Awarding Authority means any Board or Commission of the City, or any employee or officer of the City, that is authorized to award or enter into any Contract, as defined in this ordinance, on behalf of the City, and shall include departments having control of their own funds and which adopt policies consonant with the provisions of the Equal Benefits Ordinance.

(2) Benefits means any plan, program or policy provided or offered by a Contractor to its employees as part of the employer's total compensation package. This includes but is not limited to the following types of benefits: bereavement leave, family medical leave, health benefits, membership or membership discounts, moving expenses, pension and retirement benefits, and travel benefits.

(3) Cash Equivalent means the amount of money paid to an employee with a Domestic Partner (or spouse, if applicable) in lieu of providing Benefits to the employee's Domestic Partner (or spouse, if applicable). The Cash Equivalent is equal to the direct expense to the employer of providing Benefits to an employee for his or her Domestic Partner (or spouse, if applicable) or the direct expense to the employer of providing Benefits for the dependents and family members of an employee with a Domestic Partner (or spouse, if applicable).

(4) City means the City of Los Angeles.

(5) Contract means an agreement the value of which exceeds $25,000. It includes agreements for work or services to or for the City; for public works or improvements to be performed; agreements for the purchase of goods, equipment, materials, or supplies; or grants to be provided, at the expense of the City or to be paid out of monies under the control of the City. The term also includes a Lease or License, as defined in the Equal Benefits Ordinance.

00030.03 Cont'd.

(6) Contractor means any person or persons, firm, partnership, corporation, joint venture, or any combination of these, or any governmental entity acting in its proprietary capacity that enters into a Contract with any Awarding Authority of the City. The term does not include Subcontractors.

(7) Designated Administrative Agency (DAA) means the Department of Public Works, Bureau of Contract Administration.

(8) Domestic Partner means any two adults, of the same or different sex, who have registered as domestic partners with a governmental entity pursuant to state or local law authorizing this registration or with an internal registry maintained by the employer of at least one of the domestic partners.

(9) Equal Benefits Ordinance means Los Angeles Administrative Code Section 10.8.2.1, *et seq.*, as amended from time to time.

(10) Equal Benefits means the equality of benefits between employees with spouses and employees with Domestic Partners, between spouses of employees and Domestic Partners of employees, and between dependents and family members of spouses and dependents and family members of Domestic Partners.

(11) Lease or License means any agreement allowing others to use property owned or controlled by the City, any agreement allowing others the use of City property in order to provide services to or for the City, such as for concession agreements, and any agreement allowing the City to use property owned or controlled by others.

(12) Subcontractor means any person or persons, firm, partnership, corporation, joint venture, or any combination of these, and any governmental entity, that assists the Contractor in performing or fulfilling the terms of the Contract. Subcontractors are not subject to the requirements of the Equal Benefits Ordinance unless they otherwise have a Contract directly with the City.

(c) Equal Benefits Requirements.

(1) No Awarding Authority of the City shall execute or amend any Contract with any Contractor that discriminates in the provision of Benefits between employees with spouses and employees with Domestic Partners, between spouses of employees and Domestic Partners of employees, and between dependents and family members of spouses and dependents and family members of Domestic Partners.

00030.03 Cont'd.

(2) A Contractor must permit access to, and upon request, must provide certified copies of all of its records pertaining to its Benefits policies and its employment policies and practices to the DAA, for the purpose of investigation or to ascertain compliance with the Equal Benefits Ordinance.

(3) A Contractor must post a copy of the following statement in conspicuous places at its place of business available to employees and applicants for employment: "During the performance of a Contract with the City of Los Angeles, the Contractor will provide equal benefits to its employees with spouses and its employees with domestic partners." The posted statement must also include a City contact telephone number which will be provided each Contractor when the Contract is executed.

(4) A Contractor must not set up or use its contracting entity for the purpose of evading the requirements imposed by the Equal Benefits Ordinance.

(d) Other Options for Compliance. Provided that the Contractor does not discriminate in the provision of Benefits, a Contractor may also comply with the Equal Benefits Ordinance in the following ways:

(1) A Contractor may provide an employee with the Cash Equivalent only if the DAA determines that either:

a. The Contractor has made a reasonable, yet unsuccessful effort to provide Equal Benefits; or

b. Under the circumstances, it would be unreasonable to require the Contractor to provide Benefits to the Domestic Partner (or spouse, if applicable).

(2) Allow each employee to designate a legally domiciled member of the employee's household as being eligible for spousal equivalent Benefits.

(3) Provide Benefits neither to employees' spouses nor to employees' Domestic Partners.

(e) Applicability.

(1) Unless otherwise exempt, a Contractor is subject to and shall comply with all applicable provisions of the Equal Benefits Ordinance.

00030.03 Cont'd.

(2) The requirements of the Equal Benefits Ordinance shall apply to a Contractor's operations as follows:

a. A Contractor's operations located within the City limits, regardless of whether there are employees at those locations performing work on the Contract.

b. A Contractor's operations on real property located outside of the City limits if the property is owned by the City or the City has a right to occupy the property, and if the Contractor's presence at or on that property is connected to a Contract with the City.

c. The Contractor's employees located elsewhere in the United States but outside of the City limits if those employees are performing work on the City Contract.

(3) The requirements of the Equal Benefits Ordinance do not apply to collective bargaining agreements ("CBA") in effect prior to January 1, 2000. The Contractor must agree to propose to its union that the requirements of the Equal Benefits Ordinance be incorporated into its CBA upon amendment, extension, or other modification of a CBA occurring after January 1, 2000.

(f) Mandatory Contract Provisions Pertaining to Equal Benefits. Unless otherwise exempted, every Contract shall contain language that obligates the Contractor to comply with the applicable provisions of the Equal Benefits Ordinance. The language shall include provisions for the following:

(1) During the performance of the Contract, the Contractor certifies and represents that the Contractor will comply with the Equal Benefits Ordinance.

(2) The failure of the Contractor to comply with the Equal Benefits Ordinance will be deemed to be a material breach of the Contract by the Awarding Authority.

(3) If the Contractor fails to comply with the Equal Benefits Ordinance the Awarding Authority may cancel, terminate or suspend the Contract, in whole or in part, and all monies due or to become due under the Contract may be retained by the City. The City may also pursue any and all other remedies at law or in equity for any breach.

00030.03 Cont'd.

(4) Failure to comply with the Equal Benefits Ordinance may be used as evidence against the Contractor in actions taken pursuant to the provisions of Los Angeles Administrative Code Section 10.40, *et seq.*, Contractor Responsibility Ordinance.

(5) If the DAA determines that a Contractor has set up or used its Contracting entity for the purpose of evading the intent of the Equal Benefits Ordinance, the Awarding Authority may terminate the Contract on behalf of the City. Violation of this provision may be used as evidence against the Contractor in actions taken pursuant to the provisions of Los Angeles Administrative Code Section 10.40, *et seq.*, Contractor Responsibility Ordinance.

(g) Administration.

(1) The DAA is responsible for the enforcement of the Equal Benefits Ordinance for all City Contracts. Each Awarding Authority shall cooperate to the fullest extent with the DAA in its enforcement activities.

(2) In enforcing the requirements of the Equal Benefits Ordinance, the DAA may monitor, inspect, and investigate to ensure that the Contractor is acting in compliance with the Equal Benefits Ordinance. Contractor's failure to cooperate with the DAA may result in a determination by the DAA that the Contractor is not in compliance with the Equal Benefits Ordinance, which may subject the Contractor to enforcement measures set forth in Section 10.8.2.1(h).

(3) The DAA shall promulgate rules and regulations and forms for the implementation of the Equal Benefits Ordinance. No other rules, regulations or forms may be used by an Awarding Authority of the City to accomplish this contract compliance program.

(h) Enforcement.

(1) If the Contractor fails to comply with the Equal Benefits Ordinance:

a. The failure to comply may be deemed to be a material breach of the Contract by the Awarding Authority; or

b. The Awarding Authority may cancel, terminate or suspend, in whole or in part, the contract; or

c. Monies due or to become due under the Contract may be retained by the City until compliance is achieved;

00030.03 Cont'd.

d. The City may also pursue any and all other remedies at law or in equity for any breach.

e. The City may use failure to comply with the Equal Benefits Ordinance as evidence against the Contractor in actions taken pursuant to the provisions of Los Angeles Administrative Code Section 10.40, et seq., Contractor Responsibility Ordinance.

(i) Non-applicability, Exceptions and Waivers.

(1) Upon request of the Awarding Authority, the DAA may waive compliance with the Equal Benefits Ordinance under the following circumstances:

a. The Contract is for the use of City property, and there is only one prospective Contractor willing to enter into the Contract; or

b. The Contract is for needed goods, services, construction of a public work or improvement, or interest in or right to use real property that is available only from a single prospective Contractor, and that prospective Contractor is otherwise qualified and acceptable to the City; or

c. The Contract is necessary to respond to an emergency that endangers the public health or safety, and no entity which complies with the requirements of the Equal Benefits Ordinance capable of responding to the emergency is immediately available; or

d. The City Attorney certifies in writing that the Contract involves specialized litigation requirements such that it would be in the best interests of the City to waive the requirements of the Equal Benefits Ordinance; or

e. The Contract is (i) with a public entity; (ii) for goods, services, construction of a public work or improvement, or interest in or right to use real property; and (iii) that is either not available from another source, or is necessary to serve a substantial public interest. A Contract for interest in or the right to use real property shall not be considered as not being available from another source unless there is no other site of comparable quality or accessibility available from another source; or

00030.03 Cont'd.

f. The requirements of the Equal Benefits Ordinance will violate or are inconsistent with the terms or conditions of a grant, subvention or agreement with a public agency or the instructions of an authorized representative of the agency with respect to the grant, subvention or agreement, provided that the Awarding Authority has made a good faith attempt to change the terms or conditions of the grant, subvention or agreement to authorize application of the Equal Benefits Ordinance; or

g. The Contract is for goods, a service or a project that is essential to the City or City residents and there are no qualified responsive bidders or prospective Contractors who could be certified as being in compliance with the requirements of the Equal Benefits Ordinance; or

h. The Contract involves bulk purchasing arrangements through City, federal, state or regional entities that actually reduce the City's purchasing costs and would be in the best interests of the City.

(2) The Equal Benefits Ordinance does not apply to contracts which involve:

a. The investment of trust monies, bond proceeds or agreements relating to the management of these funds, indentures, security enhancement agreements (including, but not limited to, liquidity agreements, letters of credit, bond insurance) for City tax-exempt and taxable financings, deposits of City's surplus funds in financial institutions, the investment of City monies in competitively bid investment agreements, the investment of City monies in securities permitted under the California State Government Code and/or the City's investment policy, investment agreements, repurchase agreements, City monies invested in U.S. government securities or pre-existing investment agreements;

b. Contracts involving City monies in which the Treasurer or the City Administrative Officer finds that either:

(i) No person, entity or financial institution doing business in the City, which is in compliance with the Equal Benefits Ordinance, is capable of performing the desired transaction(s); or
(ii) The City will incur a financial loss or forego a financial benefit which in the opinion of the Treasurer or City Administrative Officer would violate his or her fiduciary duties.

00030.03 Cont'd.

(3) The Equal Benefits Ordinance does not apply to contracts for gifts to the City.

(4) Nothing in this Subsection shall limit the right of the City to waive the provisions of the Equal Benefits Ordinance.

(5) The provisions of this Subsection shall apply to the Equal Benefits Ordinance only. The Equal Benefits Ordinance is not subject to the exemptions provided in Section 10.9 of this Code.

(j) Consistency with Federal or State Law. The provisions of the Equal Benefits Ordinance do not apply where the application of these provisions would violate or be inconsistent with the laws, rules or regulations federal or state law, or where the application would violate or be inconsistent with the terms or conditions of a grant or contract with the United States of America, the State of California, or the instruction of an authorized representative of any of these agencies with respect to any grant or contract.

(k) Severability. If any provision of the Equal Benefits Ordinance is declared legally invalid by any court of competent jurisdiction, the remaining provisions shall remain in full force and effect.

(l) Timing of Application.

(1) The requirements of the Equal Benefits Ordinance shall not apply to Contracts executed or amended prior to January 1, 2000, or to bid packages advertised and made available to the public, or any bids received by the City, prior to January 1, 2000, unless and until those Contracts are amended after January 1, 2000 and would otherwise be subject to the Equal Benefits Ordinance.

(2) The requirements of the Equal Benefits Ordinance shall apply to competitively bid Contracts that are amended after April 1, 2003, and to competitively bid Contracts that result from bid packages advertised and made available to the public after May 1, 2003.

(3) Unless otherwise exempt, the Equal Benefits Ordinance applies to any agreement executed or amended after January 1, 2000, that meets the definition of a Contract as defined within Subsection 10.8.2.1(b).

00030.03 Cont'd.

Sec. 10.8.3. Equal Employment Practices Provisions.

Every non-construction and construction Contract with, or on behalf of, the City of Los Angeles for which the consideration is $1,000 or more shall contain the following provisions, which shall be designated as the Equal Employment Practices provision of such contract:

A. During the performance of this Contract, the Contractor agrees and represents that it will provide Equal Employment Practices and the Contractor and each Subcontractor hereunder will ensure that in his or her Employment Practices persons are employed and employees are treated equally and without regard to, or because of, race, color, religion, national origin, ancestry, sex, sexual orientation, age, disability, marital status or medical condition.

1. This provision applies to work or service performed or materials manufactured or assembled in the United States.

2. Nothing in this section shall require or prohibit the establishment of new classifications of employees in any given craft, work or service category.

3. The Contractor agrees to post a copy of Paragraph A., hereof, in conspicuous places at its place of business available to employees and applicants for employment.

B. The Contractor will, in all solicitations or advertisements for employees placed by, or on behalf of, the Contractor, state that all qualified applicants will receive consideration for employment without regard to their race, color, religion, national origin, ancestry, sex, sexual orientation, age, disability, marital status or medical condition.

C. At the request of the Awarding Authority or the DAA, the Contractor shall certify in the specified format that he or she has not discriminated in the performance of City Contracts against any employee or applicant for employment on the basis or because of race, color, religion, national origin, ancestry, sex, sexual orientation, age, disability, marital status or medical condition.

D. The Contractor shall permit access to, and may be required to provide certified copies of, all of his or her records pertaining to employment and to employment practices by the awarding authority or the DAA for the purpose of investigation to ascertain compliance with the Equal Employment Practices provisions of City Contracts. Upon request, the Contractor shall provide evidence that he or she has or will comply therewith.

00030.03 Cont'd.

E. The failure of any Contractor to comply with the Equal Employment Practices provisions of this contract may be deemed to be a material breach of City Contracts. The failure shall only be established upon a finding to that effect by the Awarding Authority, on the basis of its own investigation or that of the DAA. No such finding shall be made or penalties assessed except upon a full and fair hearing after notice and an opportunity to be heard has been given to the Contractor.

F. Upon a finding duly made that the Contractor has failed to comply with the Equal Employment Practices provisions of a City Contract, the Contract may be forthwith cancelled, terminated or suspended, in whole or in part, by the Awarding Authority, and all monies due or to become due hereunder may be forwarded to, and retained by, the City of Los Angeles. In addition thereto, the failure to comply may be the basis for a determination by the Awarding Authority or the DAA that the said Contractor is a non-responsible bidder or proposer pursuant to the provisions of Section 10.40 of this Code. In the event of such a determination, the Contractor shall be disqualified from being awarded a Contract with the City of Los Angeles for a period of two years, or until the Contractor shall establish and carry out a program in conformance with the provisions hereof.

G. Notwithstanding any other provision of this contract, the City of Los Angeles shall have any and all other remedies at law or in equity for any breach hereof.

H. The Board of Public Works shall promulgate rules and regulations through the DAA, and provide necessary forms and required language to the Awarding Authorities to be included in City Request for Bids or Request for Proposal packages or in supplier registration requirements for the implementation of the Equal Employment Practices provisions of this Contract, and such rules and regulations and forms shall, so far as practicable, be similar to those adopted in applicable Federal Executive orders. No other rules, regulations or forms may be used by an Awarding Authority of the City to accomplish the contract compliance program.

I. Nothing contained in this Contract shall be construed in any manner so as to require or permit any act which is prohibited by law.

J. By affixing its signature on a Contract that is subject to this article, the Contractor shall agree to adhere to the Equal Employment Practices specified herein during the performance or conduct of City Contracts.

00030.03 Cont'd.

K. Equal Employment Practices shall, without limitation as to the subject or nature of employment activity, be concerned with employment practices, including, but not limited to:

1. hiring practices;

2. apprenticeships where approved programs are functioning and other on-the-job training for non-apprenticeable occupations;

3. training and promotional opportunities; and

4. reasonable accommodations for persons with disabilities.

L. All Contractors subject to the provisions of this section shall include a similar provision in all subcontracts awarded for work to be performed under the Contract with the City, and shall impose the same obligations including, but not limited to, filing and reporting obligations, on the Subcontractors as are applicable to the Contractor. Subcontracts shall follow the same thresholds specified in Section 10.8.1.1. Failure of the Contractor to comply with this requirement or to obtain the compliance of its Subcontractors with all such obligations shall subject the Contractor to the imposition of any and all sanctions allowed by law, including, but not limited to, termination of the Contractor's Contract with the City.

Sec. 10.8.4. Affirmative Action Program Provisions.

Every non-construction and construction Contract with, or on behalf of, the City of Los Angeles for which the consideration is $25,000 or more shall contain the following provisions which shall be designated as the Affirmative Action Program provisions of such Contract:

A. During the performance of a City Contract, the Contractor certifies and represents that the Contractor and each Subcontractor hereunder will adhere to an Affirmative Action Program to ensure that in its employment practices, persons are employed and employees are treated equally and without regard to or because of race, color, religion, national origin, ancestry, sex, sexual orientation, age, disability, marital status, domestic partner status or medical condition.

1. This section applies to work or services performed or materials manufactured or assembled in the United States.

2. Nothing in this section shall require or prohibit the establishment of new classifications of employees in any given craft, work or service category.

00030.03 Cont'd.

3. The Contractor shall post a copy of Paragraph A., hereof, in conspicuous places at its place of business available to employees and applicants for employment.

B. The Contractor shall, in all solicitations or advertisements for employees placed, by or on behalf of, the Contractor, state that all qualified applicants will receive consideration for employment without regard to their race, color, religion, national origin, ancestry, sex, sexual orientation, age, disability, marital status, domestic partner status or medical condition.

C. At the request of the Awarding Authority or the DAA, the Contractor shall certify on an electronic or hard copy form to be supplied, that the Contractor has not discriminated in the performance of City Contracts against any employee or applicant for employment on the basis or because of race, color, religion, national origin, ancestry, sex, sexual orientation, age, disability, marital status, domestic partner status or medical condition.

D. The Contractor shall permit access to, and may be required to provide certified copies of, all of its records pertaining to employment and to its employment practices by the Awarding Authority or the DAA for the purpose of investigation to ascertain compliance with the Affirmative Action Program provisions of City Contracts and, upon request, to provide evidence that it has or will comply therewith.

E. The failure of any Contractor to comply with the Affirmative Action Program provisions of City Contracts may be deemed to be a material breach of a City Contract. The failure shall only be established upon a finding to that effect by the Awarding Authority, on the basis of its own investigation or that of the DAA. No finding shall be made except upon a full and fair hearing after notice and an opportunity to be heard has been given to the Contractor.

F. Upon a finding duly made that the Contractor has breached the Affirmative Action Program provisions of a City Contract, the Contract may be forthwith cancelled, terminated or suspended, in whole or in part, by the Awarding Authority, and all monies due or to become due hereunder may be forwarded to and retained by the City of Los Angeles. In addition thereto, the breach may be the basis for a determination by the Awarding Authority or the Board of Public Works that the Contractor is a non-responsible bidder or proposer pursuant to the provisions of Section 10.40 of this Code. In the event of such determination, the Contractor shall be disqualified from being awarded a contract with the City of Los Angeles for a period of two years, or until he or she shall establish and carry out a program in conformance with the provisions hereof.

00030.03 Cont'd.

G. In the event of a finding by the Fair Employment and Housing Commission of the State of California, or the Board of Public Works of the City of Los Angeles, or any court of competent jurisdiction, that the Contractor has been guilty of a willful violation of the California Fair Employment and Housing Act, or the Affirmative Action Program provisions of a City Contract, there may be deducted from the amount payable to the Contractor by the City of Los Angeles under the contract, a penalty of ten dollars for each person for each calendar day on which the person was discriminated against in violation of the provisions of a City Contract.

H. Notwithstanding any other provisions of a City Contract, the City of Los Angeles shall have any and all other remedies at law or in equity for any breach hereof.

I. The Public Works Board of Commissioners shall promulgate rules and regulations through the DAA and provide to the Awarding Authorities electronic and hard copy forms for the implementation of the Affirmative Action Program provisions of City contracts, and rules and regulations and forms shall, so far as practicable, be similar to those adopted in applicable Federal Executive Orders. No other rules, regulations or forms may be used by an Awarding Authority of the City to accomplish this contract compliance program.

J. Nothing contained in City Contracts shall be construed in any manner so as to require or permit any act which is prohibited by law.

K. By affixing its signature to a Contract that is subject to this article, the Contractor shall agree to adhere to the provisions in this article for the duration of the Contract. The Awarding Authority may also require Contractors and suppliers to take part in a pre-registration, pre-bid, pre-proposal, or pre-award conference in order to develop, improve or implement a qualifying Affirmative Action Program.

1. The Contractor certifies and agrees to immediately implement good faith effort measures to recruit and employ minority, women and other potential employees in a non-discriminatory manner including, but not limited to, the following actions as appropriate and available to the Contractor's field of work. The Contractor shall:

(a) Recruit and make efforts to obtain employees through:

(i) Advertising employment opportunities in minority and other community news media or other publications.

00030.03 Cont'd.

(ii) Notifying minority, women and other community organizations of employment opportunities.

(iii) Maintaining contact with schools with diverse populations of students to notify them of employment opportunities.

(iv) Encouraging existing employees, including minorities and women, to refer their friends and relatives.

(v) Promoting after school and vacation employment opportunities for minority, women and other youth.

(vi) Validating all job specifications, selection requirements, tests, etc.

(vii) Maintaining a file of the names and addresses of each worker referred to the Contractor and what action was taken concerning the worker.

(viii) Notifying the appropriate Awarding Authority and the DAA in writing when a union, with whom the Contractor has a collective bargaining agreement, has failed to refer a minority, woman or other worker.

(b) Continually evaluate personnel practices to assure that hiring, upgrading, promotions, transfers, demotions and layoffs are made in a non-discriminatory manner so as to achieve and maintain a diverse work force.

(c) Utilize training programs and assist minority, women and other employees in locating, qualifying for and engaging in the training programs to enhance their skills and advancement.

(d) Secure cooperation or compliance from the labor referral agency to the Contractor's contractual Affirmative Action Program obligations.

(e) Establish a person at the management level of the Contractor to be the Equal Employment Practices officer. Such individual shall have the authority to disseminate and enforce the Contractor's Equal Employment and Affirmative Action Program policies.

(f) Maintain records as are necessary to determine compliance with Equal Employment Practices and Affirmative Action Program obligations and make the records available to City, State and Federal authorities upon request.

00030.03 Cont'd.

(g) Establish written company policies, rules and procedures which shall be encompassed in a company-wide Affirmative Action Program for all its operations and Contracts. The policies shall be provided to all employees, Subcontractors, vendors, unions and all others with whom the Contractor may become involved in fulfilling any of its Contracts.

(h) Document its good faith efforts to correct any deficiencies when problems are experienced by the Contractor in complying with its obligations pursuant to this article. The Contractor shall state:

(i) What steps were taken, how and on what date.

(ii) To whom those efforts were directed.

(iii) The responses received, from whom and when.

(iv) What other steps were taken or will be taken to comply and when.

(v) Why the Contractor has been or will be unable to comply.

2. Every contract of $25,000 or more which may provide construction, demolition, renovation, conservation or major maintenance of any kind shall also comply with the requirements of Section 10.13 of the Los Angeles Administrative Code.

L. The Affirmative Action Program required to be submitted hereunder and the pre-registration, pre-bid, pre-proposal or pre-award conference which may be required by the Awarding Authority shall, without limitation as to the subject or nature of employment activity, be concerned with such employment practices as:

1. Apprenticeship where approved programs are functioning, and other on-the-job training for non-apprenticeable occupations;

2. Classroom preparation for the job when not apprenticeable;

3. Pre-apprenticeship education and preparation;

4. Upgrading training and opportunities;

00030.03 Cont'd.

5. Encouraging the use of Contractors, Subcontractors and suppliers of all racial and ethnic groups; provided, however, that any contract subject to this ordinance shall require the Contractor, Subcontractor or supplier to provide not less than the prevailing wage, working conditions and practices generally observed in private industries in the Contractor's, Subcontractor's or supplier's geographical area for such work;

6. The entry of qualified women, minority and all other journeymen into the industry; and

7. The provision of needed supplies or job conditions to permit persons with disabilities to be employed, and minimize the impact of any disability.

M. Any adjustments which may be made in the Contractor's work force to achieve the requirements of the City's Affirmative Action Program in purchasing and construction shall be accomplished by either an increase in the size of the work force or replacement of those employees who leave the work force by reason of resignation, retirement or death and not by termination, layoff, demotion or change in grade.

N. This ordinance shall not confer upon the City of Los Angeles or any Agency, Board or Commission thereof any power not otherwise provided by law to determine the legality of any existing collective bargaining agreement and shall have application only to discriminatory employment practices by Contractors engaged in the performance of City Contracts.

O. All Contractors subject to the provisions of this article shall include a similar provision in all subcontracts awarded for work to be performed under the Contract with the City and shall impose the same obligations including, but not limited to, filing and reporting obligations, on the Subcontractors as are applicable to the Contractor. Failure of the Contractor to comply with this requirement or to obtain the compliance of its Subcontractors with all such obligations shall subject the Contractor to the imposition of any and all sanctions allowed by law, including, but not limited to, termination of the Contractor's Contract with the City.

04 MANDATORY PROVISIONS PERTAINING TO NON-DISCRIMINATION IN EMPLOYMENT AND AFFIRMATIVE ACTION IN HIRING EMPLOYEES

Sec. 10.13. Mandatory Provisions Pertaining to Non-discrimination in Employment and Affirmative Action in Hiring Employees in the Performance of Work on Certain City Construction Contracts.

A. Notwithstanding any other provision of this division to the contrary, every construction Contract involving an expenditure of $25,000 or more of City funds, except in cases of urgent necessity, as provided in Section 371 of the Charter of the City of Los Angeles and except as provided in Section 10.9 of this Code, shall contain these provisions as part of the Contract. By affixing its signature on a Contract, the Contractor shall agree to adhere to these provisions for the duration of the Contract.

B. Anticipated Utilization. At the request of the Awarding Authority or DAA, the Contractor must set forth anticipated minority, women, and all other staffing utilization by the Contractor and all Subcontractors on each project constructed by the City using those trades within the area of jurisdiction of the Los Angeles Building and Construction Trades Council within the City of Los Angeles in each work class and at all levels in terms of staff hours. The anticipated levels of minority, women and other staffing utilization shall be the levels at which each of those groups are represented in the relevant work force in the Greater Los Angeles Area as determined by the U.S. Bureau of the Census and made available by the DAA. Attainment of the anticipated levels of utilization may only be used as an indicia of whether the Contractor has complied with the requirements of this section and has applied its Affirmative Action Program in good faith and in a non-discriminatory manner. Failure to attain the anticipated levels of utilization shall not, by itself, disqualify the Contractor for award of a Contract or subject the Contractor to any sanctions or penalties.

   In no event may a Contractor utilize the requirements of this section in such a manner as to cause or result in discrimination against any person on account of race, color, religion, national origin, ancestry, sex, sexual orientation, age, disability, marital status, domestic partner status or medical condition.

C. The Contractor shall make a good faith effort with respect to apprenticeship and training programs to:

   1. Recruit and refer minority, women and other employees to such programs;

   2. Establish training programs within the company and/or its affiliates that will prepare minority, women and other employees for advancement opportunities; and

00030.04 Cont'd.

3. Abide by the requirements of the Labor Code of the State of California with respect to the provision of apprenticeship job opportunities.

D. No contract shall be executed until the appropriate Awarding Authority of the City of Los Angeles, and the Federal funding agency (if Federal funds are involved), has determined in writing that the Contractor has executed and filed with the Awarding Authority and the DAA any federal or state requirements.

E. It shall be no excuse that the union with which the Contractor has a collective bargaining agreement providing for referral, exclusive or otherwise, failed to refer minority, women or other employees.

F. Subject to this subsection, the Contractor shall execute further forms and documentation at times and as may be required by the appropriate Awarding Authority.

G. Where the Contractor has failed to comply with the requirements contained in this section, any and all sanctions allowed by law may be imposed upon the Contractor.

H. The DAA shall be responsible for administering the City's Contract Compliance Program in the manner described in Sections 22.359 through 22.359.2 of this Code.

I. All Contractors subject to the provisions of this section shall include a similar provision in all subcontracts awarded for work to be performed under the Contract with the City and shall impose the same obligations, including, but not limited to, filing and reporting obligations, on the Subcontractors as are applicable to the Contractor. Failure of the Contractor to comply with this requirement or to obtain the compliance of its Subcontractors with all such obligations shall subject the Contractor to the imposition of any and all sanctions allowed by law including, but not limited to, termination of the Contractor's Contract with the City.

05 EQUAL BENEFITS ORDINANCE COMPLIANCE AFFIDAVIT

A Administered by City of Los Angeles Department of Public Works, Bureau of Contract Administration, Office of Contract Compliance, located at 1149 S. Broadway, Suite 300, Los Angeles, CA 90015, Phone; (213) 847-2625, email address: bca.eeoe@lacity.org.

B Contractor must be certified as complying with Los Angeles Code Section 10.8.2.1, Equal Benefits Ordinance, prior to the execution of a City agreement. This form must be returned to City department awarding the agreement.

00030.05 Cont'd.

EBO COMPLIANCE

City of Los Angeles
Department of Public Works Bureau of
Contract Administration Office of Contract
Compliance
1149 S. Broadway, Suite 300, Los Angeles, CA 90015
Phone: (213) 847-2625 E-mail: bca.eeoe@lacity.org

EQUAL BENEFITS ORDINANCE COMPLIANCE AFFIDAVIT

Prime contractors must certify compliance with Los Angeles Administrative Code (LAAC) Section 10.8.2.1 et seq. prior to the execution of a City agreement subject to the Equal Benefits Ordinance (EBO).

SECTION 1. CONTACT INFORMATION

Company Name: _____ RAMP Company ID _____

Company Address: _____

City: _____ State: _____ Zip: _____

Contact Person: _____ Phone: _____ E-mail: _____

Approximate Number of Employees in the United States: _____

Approximate Number of Employees in the City of Los Angeles: _____

SECTION 2. EBO REQUIREMENTS

The EBO requires City Contractors who provide benefits to employees with spouses to provide the same benefits to employees with domestic partners. Domestic Partner means any two adults, of the same or different sex, who have registered as domestic partners with a governmental entity pursuant to state or local law authorizing this registration, or with an internal registry maintained by the employer of at least one of the domestic partners.

Unless otherwise exempt, Contractor is subject to and shall comply with the EBO as follows:

A. Contractor's operations located within City limits, regardless of whether there are employees at those locations performing Work on City Contract; and
B. Contractor's operations located outside of City limits if the property is owned by City or City has a right to occupy the property, and if Contractor's presence at or on the property is connected to a Contract with City; and
C. Contractor's employees located elsewhere in the United States, but outside of City Limits, if those employees are performing Work on City Contract.

Contractor must post a copy of the following statement in conspicuous places at its place of business available to employees and applicants for employment:

"During the performance of a Contract with City of Los Angeles, Contractor shall provide equal benefits to its employees with spouses and its employees with domestic partners."

Form OCC/EBO-Affidavit (Rev 6/21/12)

00030.05 Cont'd.

SECTION 3. COMPLIANCE OPTIONS

I have read and understand the provisions of Equal Benefits Ordinance and have determined that this company shall comply as indicated below:

☐……. I have no employees.

☐……. I provide no benefits.

☐……. I provide benefits to employees only. Employees are prohibited from enrolling their spouse or domestic partner.

☐……. I provide equal benefits as required by City of Los Angeles EBO.

☐……. I provide employees with a "Cash Equivalent." Note: The "Cash Equivalent" is the amount of money equivalent to what your company pays for spousal benefits that are unavailable for domestic partners, or vice versa.

☐……. All or some employees are covered by a collective bargaining agreement (CBA) or union trust fund. Consequently, I shall provide Equal Benefits to all non-union represented employees, subject to the EBO, and shall propose to the affected unions that they incorporate the requirements of the EBO into their CBA upon amendment, extension, or other modification of the CBA.

☐……. Health benefits currently provided do not comply with the EBO. However, I shall make the necessary changes to provide Equal Benefits upon my next Open Enrollment period which begins on (Date) _____.

☐……. Our current company policies, i.e., family leave, bereavement leave, etc., do not comply with the provisions of the EBO. However, I shall make the necessary modifications within three (3) months from the date of this affidavit.

SECTION 4. DECLARATION UNDER PENALTY OF PERJURY

I understand that I am required to permit City of Los Angeles access to and upon request, must provide certified copies of all company records pertaining to benefits, policies and practices for the purpose of investigation or to ascertain compliance with Equal Benefits Ordinance. Furthermore, I understand that failure to comply with LAAC Section 10.8.2.1 et seq., Equal Benefits Ordinance may be deemed a material breach of any City contract by Awarding Authority. Awarding Authority may cancel, terminate or suspend in whole or in part, the contract; monies due or to become due under a contract may be retained by City until compliance is achieved. City may also pursue any and all other remedies at law or in equity for any breach. City may use the failure to comply with Equal Benefits Ordinance as evidence against Contractor in actions taken pursuant to the provisions of the LAAC Section 10.40, et seq., Contractor Responsibility Ordinance.

_____shall comply with Equal Benefits Ordinance requirements
Company Name
as indicated above prior to executing a contract with City of Los Angeles and shall comply for the entire duration of the contract(s).

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct, and that I am authorized to bind this entity contractually.

Executed this _____day of _____, in the year 20_____, at _____, _____
(City) (State)

_____ _____
Signature Mailing Address

_____ _____
Name of Signatory (please print) City, State, Zip Code

_____ _____
Title EIN/TIN

Form OCC/EBO-Affidavit (Rev 6/21/12)

06 SMALL BUSINESS ENTERPRISE PROGRAM (SBEP)

A POLICY STATEMENT

City of Los Angeles Harbor Department is committed to creating an environment that provides all individuals and businesses open access to the business opportunities available at Port of Los Angeles in a manner that reflects the diversity of City of Los Angeles. Port of Los Angeles Small Business Enterprise Program (SBEP or the "Program") was created to provide additional opportunities for small businesses to participate in any and all contracts.

It is the policy of Harbor Department to solicit participation in the performance of all service contracts by all individuals and businesses, including but not limited to, small business enterprises (SBEs), very small business enterprises (VSBEs), women-owned businesses (WBEs), minority-owned businesses (MBEs), and disabled veterans business enterprises (DVBE). Program shall allow Department to target more effectively small and very small business participation (including MBEs, WBEs, and DVBEs). It is also the intent of Department to make it easier for small and very small businesses to participate in Department contracts by providing education and assistance on how to do business with City, including, but not limited to, ensuring that payments to small and very small businesses are processed in a timely manner.

City's Contracts Management and Opportunities Database, Regional Alliance Marketplace for Procurement (RAMP) is a free service provided by the Mayor's Office of Economic Development and the Minority Business Opportunity Committee. In order to ensure the highest participation of SBE/VSBE/MBE/WBE/DVBEs, all Bidders shall utilize RAMP, at https://www.rampla.org/s/, to outreach to potential subcontractors and suppliers. Bidders shall go on RAMP and notify subcontractors and suppliers that they shall be bidding and are looking for subcontractors and suppliers.

Bidders must be registered on RAMP at time of bid. Subcontractors and suppliers must be registered on RAMP within 30 Calendar Days after bids are closed.

00030.06 Cont'd.

Bidders, subcontractors, and suppliers identified in the bid submittal as SBE or VSBE must be certified at time of bid, as applicable. Bidders, subcontractors, and suppliers must submit a copy of SBE certificate or VSBE certificate from the agency utilized to obtain certification as SBE or VSBE to Engineer within 4 Business Days of close of bids in order to be acknowledged within the bid as SBE or VSBE. Refer to https://kentico.portoflosangeles.org/getmedia/aea536e1-5d48-440a-8857-c55907e3dc74/contracting-proprietary-sbe-cert-application for certification instructions.

Within 30 Calendar Days after close of bids, Bidders, subcontractors, and suppliers identified in the bid submittal as SBE or VSBE must be verified on RAMP as SBE (Proprietary) or VSBE (Harbor), as applicable.

B SMALL BUSINESS REQUIREMENT

The SBEP, which has a very small business enterprise component, is a results-oriented program, requiring contractors who receive contracts from the Department to perform outreach and utilize certified small and very small businesses.

Any bid submitted which fails to meet the small and very small business requirement as shown in NOTICE INVITING BIDS Section shall result in rejection of the bid. If no bids are submitted that meet the small and very small business participation identified above, all bids shall be rejected by Department.

For purposes of calculating small and very small business participation in order to meet the requirement, the following shall apply:

1 At the time of bid, SBE and VSBE participation levels shall be based on the percentage of total Contract amount (including Allowance Items) to be paid to SBE and VSBE subcontractors and suppliers.

2 If the prime contractor is an SBE, or VSBE, small or very small business participation is shown as 100%.

3 100% of payments to SBE or VSBE truckers and suppliers.

4 Final SBE and VSBE participation levels shall be based on the percentage of final Contract amount, including the utilized Allowance Item amounts.

00030.06 Cont'd.

Definitions:

Small Business Enterprise (SBE): Harbor Department, and other City of Los Angeles Proprietary Departments, defines an SBE as an independently owned and operated business that is not dominant in its field and meets criteria set forth by the Small Business Administration in Title 13, Code of Federal Regulations, Part 121, generally meeting SBA established size standards for most industries in the economy. Size standards can be accessed on the SBA Website at www.sba.gov/ca/la.

Very Small Business Enterprise (VSBE): Harbor Department, and other City of Los Angeles Proprietary Departments, defines a VSBE based on the State of California's micro-business definition which is (1) a small business that has average annual gross receipts of $5,000,000 or less within the previous 3 years, or (2) a small business manufacturer with 25 or fewer employees.

A Minority Business Enterprise (MBE) is defined as a business in which a minority owns and controls at least 51% of the business. A Woman Business Enterprise (WBE) is defined as a business in which a woman owns and controls at least 51% of the business. For the purpose of this Project, a minority includes:

(1) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);

(2) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);

(3) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, The Indian Subcontinent, or the Pacific Islands); and

(4) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).

A Disabled Veteran Business Enterprise (DVBE) is defined as a business in which a disabled veteran owns at least 51 percent of the business, and the daily business operations are managed and controlled by one or more disabled veterans.

00030.06 Cont'd.

An OBE (Other Business Enterprise) is any enterprise that is not a SBE, VSBE, DVBE, MBE, or WBE.

Bidder shall be responsible for determining SBE and VSBE status of its subcontractors and suppliers for purposes of meeting the small and very small business requirements. Bidders, subcontractors, and suppliers identified in the bid submittal as SBE or VSBE must be certified at time of bid, as applicable Bidders, subcontractors, and suppliers must submit a copy of SBE certificate or VSBE certificate from the agency utilized to obtain certification as SBE or VSBE to Engineer within 4 Business Days of close of bids in order to be acknowledged within the bid as SBE or VSBE. All business participation shall be determined by the percentage paid to SBEs and VSBEs of the total amount of compensation under Agreement.

Contract Requirements:

Bidder shall complete, sign, notarize, and submit as part of the bid Contractor Ownership/RAMP Outreach/Local Business Enterprise Affidavit form included in Specifications as Subsection 00030.11 with a complete description of Work or supplies to be provided by each and the dollar amount of each such transaction entered in the online subcontractor list provided on CDBON and on the Supplier List in Subsection 00660.03 of SBE/VSBE/MBE/WBE/DVBE/OBE/LBE INFORMATION Section. Subcontractors and suppliers shall complete, sign, notarize, and submit Subcontractor/Supplier Ownership and Local Business Enterprise Affidavit and Contractor/Supplier Information Form included in Subsection 00660.01 of SBE/VSBE/MBE/WBE/DVBE/OBE/LBE INFORMATION Section for each subcontractor and supplier by the time required in Subsection 00012.10 of NOTICE INVITING BIDS Section with a complete description of Work or supplies to be provided by each and the dollar amount of each such transaction. Contractor/Supplier Information Form, when signed, shall signify Contractor's intent to comply with SBE requirement. Within 30 Calendar Days after bids are closed, Harbor Department shall verify SBE and VSBE status of Bidders, subcontractors, and suppliers.

Contractor shall not substitute an SBE or VSBE firm without obtaining prior approval of City and amending its Contract. A request for substitution must be based upon demonstrated good cause. If substitution is permitted, Contractor shall endeavor to make an in-kind substitution for the substituted SBE or VSBE.

00030.06 Cont'd.

During the performance of Contract, Contractor shall complete and submit to Engineer, a Monthly Subcontractor/Supplier Monitoring Report included in Specifications as Subsection 00030.11A. Engineer shall make the report available to Contractor in electronic/digital format. The completed report shall be submitted to Engineer on the form provided in Subsection 00030.11A of this Section. Among other information, the completed form shall reflect payments made to all (SBE/VSBE/MBE/WBE/DVBE/OBE) subcontractors and suppliers to date. The subcontractors or suppliers listed in Monthly Subcontractor/Supplier Monitoring Report shall be the same as those entered in the online subcontractor list provided on CDBON and submitted as part of the bid. All subcontractors/ suppliers shall be listed on the report, regardless of level of activity to date (even if payment to date is zero). The correctly completed report shall be submitted by Contractor at the beginning of each month.

In the event of Contractor's noncompliance during the performance of Contract, Contractor shall be considered in material breach of Contract. In addition to any other remedy available to City under the Contract or by operation of law, City may:

1 Withhold invoice payments to Contractor until noncompliance is corrected, and assess the costs of City's audit of books and records of Contractor and its subcontractors and suppliers.

2 Disqualify Contractor from participation in City contracts for a period of up to five (5) years in the event Contractor falsifies or misrepresents information contained in any form or other willful noncompliance as determined by City.

07 CONTRACT SOLICITATIONS CHARTER SECTION 470 (c) (12)

A Persons who submit a bid for this solicitation (Bidders) are subject to Charter Section 470 (c) (12) and related ordinances. As a result, Bidders may not make campaign contributions to and or engage in fundraising for certain elected City officials or candidates for elected City office from the time they submit the bid until either the contract is signed by City of Los Angeles, or the bid is withdrawn by Bidder, or City rejects all bids, whichever is earlier. The prohibitions continue for 12 months after Contract is signed by City for successful Bidder, and principals, subcontractors of at least $100,000, and principals of such subcontractors.

B Bidders must submit signed CEC Form 50 through CDBON at the time of bid. Bids submitted without signed CEC Form 50 shall be deemed nonresponsive. The original signature copy shall be submitted with the 4-day documents in conformance with NOTICE INVITING BIDS Section, Subsection 09.

C Bidders must submit signed CEC Form 55 (which requires bidders to identify their principals) through CDBON at the time of bid. The original signature copy shall be submitted with the 4-day documents in conformance with NOTICE INVITING BIDS Section, Subsection 09. Bidders shall notify their principals and subcontractors in writing of the restrictions and include the notice in contracts with subcontractors. Bidders shall also identify their subcontractors performing $100,000 or more in Work on Contract, and the principals of these subcontractors. Bidders are only required to identify vendors or suppliers who provide additional services and $100,000 or more in materials or equipment. Bidders are not required to identify vendors or suppliers if no services are provided. Bids submitted without signed CEC Form 55 that, at a minimum, contains required information for Bidder and its principals shall be deemed nonresponsive. If required information for any subcontractors and principals of subcontractors is not included on CEC Form 55 at the time of bid, updated CEC Form 55 containing all required information shall be submitted by apparent low Bidder, or other Bidders when requested by Engineer, within 4 Business Days of the of the date and time of deadline for bid submittal or the bid shall be deemed nonresponsive.

D Bidders who fail to comply with City law may be subject to penalties, termination of Contract, and debarment. Additional information regarding these restrictions and requirements may be obtained from City Ethics Commission at (213) 978-1960 or https://ethics.lacity.org/.

E CEC Forms 50 and 55 may be obtained from City Ethics Commission at https://ethics.lacity.org/contracts/bidders/.

08 IRAN CONTRACTING ACT OF 2010

A California Legislature adopted the Iran Contracting Act of 2010 to respond to policies of Iran in a uniform fashion (PCC § 2201(q)). Iran Contracting Act prohibits Bidders engaged in investment activities in Iran from submitting bids for, or entering into or renewing contracts with public entities for goods and services of one million dollars ($1,000,000) or more (PCC § 2203(a)). In accordance with California Public Contract Code Sections 2200-2208, Bidders submitting bids for, entering into, or renewing contracts with Harbor Department for goods and services estimated at $1,000,000 or more are required to complete, sign, and submit Iran Contracting Act of 2010 Compliance Affidavit included as Subsection 00030.09 of this Section.

09 IRAN CONTRACTING ACT OF 2010 COMPLIANCE AFFIDAVIT (California Public Contract Code Sections 2200-2208)

California Legislature adopted Iran Contracting Act of 2010 to respond to policies of Iran in a uniform fashion (PCC § 2201(q)). Iran Contracting Act prohibits Bidders engaged in investment activities in Iran from submitting bids for, or entering into or renewing contracts with public entities for goods and services of one million dollars ($1,000,000) or more (PCC § 2203(a)). A Bidder who "engages in investment activities in Iran" is defined as either:

- A Bidder providing goods or services of twenty million dollars ($20,000,000) or more in the energy sector of Iran, including provision of oil or liquefied natural gas tankers, or products used to construct or maintain pipelines used to transport oil or liquefied natural gas, for the energy sector of Iran; or
- A Bidder that is a financial institution (as that term is defined in 50 U.S.C. § 1701) that extends twenty million dollars ($20,000,000) or more in credit to another person, for 45 days or more, if that person shall use the credit to provide goods or services in the energy sector in Iran and is identified on a list created by the California Department of General Services (DGS) pursuant to PCC § 2203(b) as a person engaging in the investment activities in Iran.

Bidder shall certify that at the time of submitting a bid for a new contract or for the renewal of an existing contract, he or she is not identified on the DGS list of ineligible businesses or persons and that the Bidder is not engaged in investment activities in Iran in violation of Iran Contracting Act of 2010.

> California law establishes penalties for providing false certifications, including civil penalties equal to the greater of $250,000 or twice the amount of the contract for which the false certification was made; contract termination; and three-year ineligibility to bid on contracts (PCC § 2205).

To comply with Iran Contracting Act of 2010, Bidder shall complete and sign ONE of the options shown below and submit with the bid.

OPTION #1: CERTIFICATION

I, the official named below, certify that I am duly authorized to execute this certification on behalf of Bidder or financial institution identified below, and that Bidder or financial institution identified below is not on the current DGS list of persons engaged in investment activities in Iran and is not a financial institution extending twenty million dollars ($20,000,000) or more in credit to another person or vendor, for 45 days or more, if that other person or vendor shall use the credit to provide goods or services in the energy sector in Iran and is identified on the current DGS list of persons engaged in investment activities in Iran.

Name of Bidder/Financial Institution (Printed):
_____
Signed by: _____ (Authorized Signature)
_____ (Printed Name)
_____ (Title of Person Signing)

OPTION #2: EXEMPTION

Pursuant to PCC § 2203(c) and (d), a public entity may permit a Bidder or financial institution engaged in investment activities in Iran, on a case-by-case basis, to be eligible for, or to submit a bid for, or enter into, or renew, a contract for services. If Bidder or financial institution identified below has obtained an exemption from the certification requirement under Iran Contracting Act of 2010, Bidder or financial institution shall complete and sign below and attach documentation demonstrating the exemption approval.

Name of Bidder/Financial Institution (Printed): _____
Signed by: _____ (Authorized Signature)
_____ (Printed Name)
_____ (Title of Person Signing)

10 CONTRACTOR OWNERSHIP / RAMP OUTREACH AFFIDAVIT

AFFIDAVIT

"The undersigned declares under penalty of perjury pursuant to the laws of the State of California that the following is true and correct and include all material information necessary to identify and explain the operations of

_____

Name of Firm

as well as the ownership thereof. Further, the undersigned agrees to provide the Harbor Department, upon request, complete and accurate information regarding ownership in the named firm, and all of its domestic and foreign affiliates, any proposed changes of the ownership and to permit the audit and examination of firm ownership documents, and the ownership documents of all of its domestic and foreign affiliates, in association with this Contract."

Furthermore, the undersigned certifies that it has utilized RAMP to outreach to potential SBE/VSBE/MBE/WBE/DVBEs for potential subcontracting opportunities associated with this bid.

Please indicate the ownership of your company as defined in Subsection 00030.06 of BIDDING DOCUMENTS Section:

| Small Business Enterprise (SBE) | Yes/No (Circle One)

| Very Small Business Enterprise (VSBE) | Yes/No (Circle One)

Is Your Firm an MBE Yes/No WBE Yes/No DVBE Yes/No OBE Yes/No (Circle as appropriate)

Signature _____ Title _____

Printed Name _____ Date Signed _____

NOTARY

(State of California)

County of _____)

00030.10 Cont'd.

On _____ before me, _____
Date Here insert Name and Title of the Officer

personally appeared _____
Name(s) of Signer(s)

_____

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Place Notary Seal Above

Signature_____
Signature of Notary Public

10A MONTHLY SUBCONTRACTOR / SUPPLIER MONITORING REPORT

SAMPLE MONTHLY SUBCONTRACTOR/SUPPLIER MONITORING REPORT

Instructions: Please indicate the SBE/VSBE/MBE/WBE/OBE/DVBE participation levels achieved for the month of _____covered by the referenced contract number.

Contract No. Spec. No. Division Contract Administrator

Contractor Group* Contract Title/Project

Original Contract Amount $10,000,000.00 Contract Start Date Contract End Date

Total Earned Value to Date $ 6,000,000.00

Original Proposed Subcontractor Percentages SBE 22.00% VSBE 7.00% MBE 20.00% WBE 20.00% OBE 60.00% DVBE 0.00%

Contract-required minimum percentages (in parentheses) (21%) (6%)

The VSBE and Total SBE min-required percentages above, are not additive. The Total SBE percentage includes VSBE participation.

					PROPOSED		ACTUALS		
	Name of Subcontractor	Type of Work Performed	SBE/VSBE	MBE/WBE/OBE/DVBE	Original Proposed Amount	Original Proposed Percentage	Earned Value to Date	Earned Value to Date Percentage	Total Earned Value Percentage
1	Construction Firm A	Asphalt Paving	VSBE, SBE	MBE, WBE	$300,000.00	3.00%	$150,000.00	50.00%	2.50%
2	Construction Firm B	Demolition	VSBE, SBE	OBE	$200,000.00	2.00%	$25,000.00	12.50%	0.42%
3	Supplier No. 1	Concrete Piles	VSBE, SBE	OBE	$200,000.00	2.00%	$75,000.00	37.50%	1.25%
			VSBE Subtotal:		$700,000.00	7.00%	$250,000.00	35.71%	4.17%
1	Construction Firm C	Low Voltage Electrical	SBE	WBE, DVBE	$500,000.00	5.00%	$100,000.00	20.00%	1.67%
2	Supplier No. 2	Precast Concrete Pipe	SBE	MBE	$1,000,000.00	10.00%	$250,000.00	25.00%	4.17%
3			SBE			0.00%		#DIV/0!	0.00%
			SBE Subtotal (Exclusive of VSBE):		$1,500,000.00	15.00%	$350,000.00	23.33%	5.83%
			Total SBE (Inclusive of VSBE):		$2,200,000.00	22.00%	$600,000.00	27.27%	10.00%
1	Construction Firm D	Concrete Pumping	No	OBE	$500,000.00	5.00%	$400,000.00	80.00%	6.67%
2	Construction Firm F	Concrete Sawing	No	MBE	$500,000.00	5.00%	$500,000.00	100.00%	8.33%
3			No			0.00%		#DIV/0!	0.00%
4			No			0.00%		#DIV/0!	0.00%
5			No			0.00%		#DIV/0!	0.00%
			Non-SBE Total:		$1,000,000.00	10.00%	$900,000.00	90.00%	15.00%

Directions:

Original Proposed Percentage = Original Proposed Amount / Original Contract Amount

Earned Value to Date Percentage = Earned Value to Date / Original Proposed Amount

Total Earned Value Percentage = Earned Value to Date / Total Earned Value to Date

*Group = SBE / VSBE / MBE / WBE / OBE / DVBE

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00030.10A Cont'd. MONTHLY SUBCONTRACTOR/SUPPLIER MONITORING REPORT (Cont'd.)

MONTHLY SUBCONTRACTOR/SUPPLIER MONITORING REPORT

Instructions: Please indicate the SBE/VSBE/MBE/WBE/OBE/DVBE participation levels achieved for the month of _____covered by the referenced contract number.

Contract No. Spec. No. Division Contract Administrator

Contractor Group* Contract Title/Project

Original Contract Amount Contract Start Date Contract End Date

Total Earned Value to Date

Original Proposed Subcontractor Percentages SBE 0.00% VSBE 0.00% MBE 0.00% WBE 0.00% OBE 0.00% DVBE 0.00%

Contract-required minimum percentages (in parentheses) (0%) (0%)

The VSBE and Total SBE min-required percentages above, are not additive. The Total SBE percentage includes VSBE participation.

					PROPOSED		ACTUALS		
	Name of Subcontractor	Type of Work Performed	SBE/VSBE	MBE/WBE/OBE /DVBE	Original Proposed Amount	Original Proposed Percentage	Earned Value to Date	Earned Value to Date Percentage	Total Earned Value Percentage
1			VSBE, SBE						
2			VSBE, SBE						
3			VSBE, SBE						
			VSBE Subtotal:						
1			SBE						
2			SBE						
3			SBE						
			SBE Subtotal (Exclusive of VSBE):						
			Total SBE (Inclusive of VSBE):						
1			No						
2			No						
3			No						
4			No						
5			No						
			Non-SBE Total:						

Directions:

Original Proposed Percentage = Original Proposed Amount / Original Contract Amount

Earned Value to Date Percentage = Earned Value to Date / Original Proposed Amount

Total Earned Value Percentage = Earned Value to Date / Total Earned Value to Date

*Group = SBE / VSBE / MBE / WBE / OBE / DVBE

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11 PROPOSAL

Los Angeles, California

To Board of Harbor Commissioners:

The undersigned, having carefully examined Contract Documents for Specification No. 2804 at Port of Los Angeles, and having personally visited the site of Work and having become familiar with the conditions based upon the site visit and review of the reference materials, hereby proposes to furnish all materials and perform all Work required to complete Project in accordance with the Contract Documents, within the time set forth in Contract for the Grand Total stated in CDBON's bid item online form.

The undersigned represents all Work indicated in Contract Documents is included within the scope of Work of Contract, is included in the Grand Total for the item(s) stated in the online form, and shall not be construed to be extra Work for which extra compensation can be claimed.

The undersigned has carefully checked all figures inserted in the online form and understands that Board shall not be responsible for any errors or omissions on the part of the undersigned in making the bid.

The undersigned agrees upon acceptance of the bid for all Work indicated on Contract Documents, to enter into and execute an agreement, of which the documents listed in the table of contents of said Specification No. 2804 shall be made a part, at the Grand Total stated in the online form, and to furnish and execute such bonds and insurance as required.

The undersigned furthermore agrees that in case of default in execution of such agreement, or in furnishing the required bonds, the security accompanying this Proposal and the money payable thereon shall be forfeited and remain the property of Department. Such forfeiture shall not preclude recovery of any sum over and above the amount posted or guaranteed to which Department sustains damage by reason of such default or failure to contract.

The undersigned agrees that Board reserves the right, in its sole discretion, to accept or reject the bid, without price escalation, at any time within ninety (90) days after date and time of deadline to submit bids.

00030.11 Cont'd.

The undersigned acknowledges receipt of all addenda and accepts all conditions contained therein.

Contractor's License No._____ Expiration Date _____

By_____
Signature

_____
Signature

Address _____

Contractor declares that its authorized Taxpayer Identification Number (TIN) is _____. The above signed understands no payments shall be made under Contract without a valid TIN number.

Bidder Is*_____
_____

If a partnership, state names of partners. If a corporation, state names of president and secretary.

_____

_____

The representations made herein are made under penalty of perjury.

*Corporation, Partnership, Limited Partnership, Individual

*If Bidder is a corporation, bid must be signed by a person authorized to do so by bylaw or resolution of that corporation.

*If Bidder is a partnership, bid must be signed by all partners unless bid is accompanied by proof that signing partner(s) is (are) authorized to bind partnership.

00030.11 Cont'd.

LOS ANGELES HARBOR DEPARTMENT
HEADQUARTERS LOCATION FORM

AT THE REQUEST OF A LOS ANGELES CITY COUNCIL MOTION, ALL BIDDERS SHALL SUBMIT THE FOLLOWING INFORMATION AT THE TIME OF BID OR PROPOSAL SUBMITTAL. THIS IS FOR INFORMATION ONLY AND SHALL IN NO WAY AFFECT CONTRACT SELECTION PROCESS.

DATE:_____ SPECIFICATION NO. 2804

PROJECT TITLE: AVALON PEDESTRIAN BRIDGE AND PROMENADE GATEWAY

COMPANY NAME: _____

CONTACT PERSON: _____

COMPANY HEADQUARTERS ADDRESS: _____

CITY: _____ STATE: _____ ZIP CODE: _____

COMPANY LOCATION ADDRESS _____

CITY: _____ STATE: _____ ZIP CODE: _____

PHONE NUMBER: _____ NUMBER OF EMPLOYEES: _____

PERCENTAGE OF EMPLOYEES WHO RESIDE IN THE CITY OF LOS ANGELES %

_____
NAME/TITLE

12 BID PROPOSAL LINE ITEMS

The bid proposal line items are located on Construction Division Business Opportunities Network (CDBON) online system. Enter bidder's unit prices in the online form. The extended prices for each bid item are automatically calculated by CDBON's online system based on unit prices entered. The Grand Total is automatically summed from the extended prices. A printed version of the bid proposal line items is included at the end of this Subsection of BIDDING DOCUMENTS Section of Specifications for information only.

CONTINGENCY / ALLOWANCE ITEM(S)

Work described in the contingency/allowance item(s) in the online form may or may not be necessary depending on conditions discovered in the field after Contract Award. If field conditions justify Work listed in the contingency/allowance items, Engineer shall issue a written authorization to proceed with Work item(s) described in the online form. Work under contingency/allowance items is exclusive of Work required elsewhere in Contract Documents unless specifically referenced. All Work performed under these contingency/allowance items shall be performed either on a negotiated cost basis prior to performing Work in conformance with the provisions of Subsection 01000.35 "Authority for Adjustments", or on a Time and Material basis in accordance with the provisions of Subsection 01000.34 "Cost-Plus Change Order Work (Change Orders)" of GENERAL CONDITIONS Section. Upon completion of Contract, any unused allowance remaining under each contingency/allowance bid item shall be credited back to Department.

Award: Award, if made, shall be made to a single Contractor. The lowest bidder shall be based on the sum of all the items for which a bid is requested, including all contingency items regardless of whether all of those items are actually awarded. The awarded Contractor's bid results provided in CDBON online system shall be inserted at the end of Subsection 00030.13 and shall become part of any Contract awarded.

Section	ItemCode	ItemDesc	UnitOfMeasure	Quantity	UnitPrice
Main Bid	1	Lump Sum Construction (Drawing Nos. 1-3302 and 1-3472): For furnishing transportation, labor, materials, equipment, mobilization, demobilization, and incidentals necessary to complete Work in accordance with Drawing Nos. 1-3302 and 1-3472, exclusive of Work covered by Item 2 through the last item of Bid Proposal Line Items	Lump Sum	1	
Main Bid	2	Asphalt Concrete Pavement: For furnishing transportation, labor, materials, and equipment to furnish and place asphalt concrete pavement including tack coat and mill and overlay, including additions to or deductions from the approximate quantity stipulated	Tons	990	
Main Bid	3	Geogrid Fabric: For furnishing transportation, labor, materials, and equipment to furnish and install geogrid fabric (including crack filler and tack coat), including additions to or deductions from the approximate quantity stipulated	Square Yards	4,000	
Main Bid	4	Concrete Sidewalk, Curb Ramps, and Driveways: For furnishing transportation, labor, materials, and equipment to construct concrete sidewalk, curb ramps, and driveways, including additions to or deductions from the approximate quantity stipulated	Square Feet	7,430	
Main Bid	5	Integral Curb and Gutter: For furnishing transportation, labor, materials, and equipment to construct Type “C” concrete curb, including additions to or deductions from the approximate quantity stipulated	Linear Feet	1,100	
Main Bid	6	Crushed Miscellaneous Base: For furnishing transportation, labor, and equipment to load, haul, place, and compact crushed miscellaneous base, including additions to or deductions from the approximate quantity stipulated	Cubic Yards	1,100	

SUBMIT BIDS ONLINE

Main Bid	7	Import Fill Soil: For furnishing transportation, labor, materials, and equipment to furnish, place, grade, and compact Contractor-furnished fill soil, including additions to or deductions from the approximate quantity stipulated	Cubic Yards	100,000	
Main Bid	8	Rehandling of Import Fill Soil: For furnishing transportation, labor, materials, and equipment to excavate Contractor-furnished fill soil from an area within Project Site, place, grade, and compact fill soil to a different area within Project Site, including additions to or deductions from the approximate quantity stipulated	Cubic Yards	6,000	
Main Bid	9	Surcharge Material: For furnishing transportation, labor, materials, and equipment to clear and grub, excavate, handle, load, transport, place, and return surcharge from and to Department's source site, including additions to or deductions from the approximate quantity stipulated	Cubic Yards	55,000	
Main Bid	10	Surcharge Instrumentation and Investigations: For furnishing transportation, labor, materials, and equipment to perform geotechnical instrumentation and post construction investigations	Lump Sum	1	
Main Bid	11	Furnish 24-Inch Octagonal Concrete Indicator Piles: For furnishing transportation, labor, materials, and equipment to manufacture 24-inch octagonal prestressed concrete indicator piles and deliver to Project Site, including surplus piles, including additions to or deductions from the approximate quantity stipulated	Linear Feet	160	

SUBMIT BIDS ONLINE

Main Bid	12	Install 24-Inch Octagonal Concrete Indicator Piles: For furnishing transportation, labor, materials, and equipment to install 24-inch octagonal prestressed concrete indicator piles with Case Pile Wave Analysis Program (CAPWAP) and pile driving analyzer (PDA), including additions to or deductions from the approximate quantity stipulated	Each	220	
Main Bid	13	Furnish 24-Inch Octagonal Prestressed Concrete Piles: For furnishing transportation, labor, materials, and equipment to manufacture 24-inch octagonal prestressed concrete piles and deliver to Project Site, including surplus piles, including additions to or deductions from the approximate quantity stipulated	Linear Feet	8415	
Main Bid	14	Install 24-Inch Octagonal Prestressed Concrete Piles: For furnishing transportation, labor, materials, and equipment to install 24-inch octagonal prestressed concrete piles, including surplus piles, including additions to or deductions from the approximate quantity stipulated	Each	9	
Main Bid	15	Marine Guardrail: For furnishing transportation, labor, materials, and equipment to furnish and install marine guardrail and related appurtenances, including additions to or deductions from the approximate quantity stipulated	Linear Feet	230	
Main Bid	16	Play Area: For furnishing transportation, labor, materials, and equipment to furnish and install the play area including play surfacing, play elements, and equipment	Lump Sum	1	
Main Bid	17	Picnic Tables: For furnishing transportation, labor, materials, and equipment to furnish and install picnic tables, including standard picnic tables, custom picnic tables, and related appurtenances including but not limited to wood boards, high performance concrete supports, wood bench, and attachments, including additions to or deductions from the approximate quantity stipulated	Each	43	

SUBMIT BIDS ONLINE

Main Bid	18	Benches: For furnishing transportation, labor, materials, and equipment to furnish and install benches and related appurtenances including but not limited to wood boards, high performance concrete supports, wood bench, and attachments, including additions to or deductions from the approximate quantity stipulated	Each	50	
Main Bid	19	Decomposed Granite Paving: For furnishing transportation, labor, materials, and equipment to furnish and install decomposed granite paving, including additions to or deductions from the approximate quantity stipulated	Square Feet	13,000	
Main Bid	20	Concrete Unit Pavers: For furnishing transportation, labor, materials, and equipment to furnish and install concrete unit pavers including but not limited to joint material, setting bed, concrete sub slab, and weep holes, including additions to or deductions from the approximate quantity stipulated	Square Feet	26100	
Main Bid	21	Site Railings: For furnishing transportation, labor, materials, and equipment to furnish and install site railings including but not limited to stair railings, free-standing railing at steps, and excluding marine guardrail	Lump Sum	1	
Main Bid	22	Lithocrete: For furnishing transportation, labor, materials, and equipment to furnish and install Lithocrete architectural concrete paving including reinforcing	Lump Sum	1	
Main Bid	23	Field Offices: For furnishing transportation, labor, materials, equipment, and facilities to provide fully operational field offices with working utilities for Department personnel at Project Site	Lump Sum	1	
Main Bid	24	Striping and Pavement Markings: For furnishing transportation, labor, materials, and equipment to construct striping and paving markings	Lump Sum	1	
Main Bid	25	Signage: For furnishing transportation, labor, materials, and equipment to construct signage	Lump Sum	1	

SUBMIT BIDS ONLINE

Main Bid	26	Photographic Documentation: For furnishing transportation, labor, materials, and equipment to furnish, install, and operate system for photographic and panoramic photographic documentation	Lump Sum	1	
Main Bid	27	Sanitary Sewerage System: For furnishing transportation, labor, materials, and equipment to furnish and install sanitary sewerage system including force main sewer system for City of Los Angeles Bureau of Engineering B-Permit No. BR-600508 Index No. P-38614, excluding the sanitary sewerage system for the restroom building	Lump Sum	1	
Main Bid	28	Water Distribution System: For furnishing transportation, labor, materials, and equipment to furnish and install water distribution system	Lump Sum	1	
Main Bid	29	DWP Water Distribution System: For furnishing transportation, labor, materials, and equipment to furnish and install Department of Water and Power (DWP) water distribution system	Lump Sum	1	
Main Bid	30	Storm Drainage System: For furnishing transportation, labor, materials, and equipment to furnish and install storm drainage system	Lump Sum	1	
Main Bid	31	Electrical System: For furnishing transportation, labor, materials, and equipment to construct the electrical system	Lump Sum	1	
Main Bid	32	DWP Electrical System: For furnishing transportation, labor, materials, and equipment to construct the Department of Water and Power (DWP) electrical system	Lump Sum	1	
Main Bid	33	Site Lighting: For furnishing transportation, labor, materials, and equipment to site lighting including exterior luminaires with lamps, ballasts, drivers, luminaire-mounted photoelectric relays, poles, and accessories	Lump Sum	1	

SUBMIT BIDS ONLINE

Main Bid	34	Bridge Lighting: For furnishing transportation, labor, materials, and equipment to bridge lighting including exterior luminaires with lamps, ballasts, drivers, luminaire-mounted photoelectric relays, poles, and accessories	Lump Sum	1	
Main Bid	35	Landscaping and Irrigation System: For furnishing transportation, labor, materials, and equipment to construct the landscaping and irrigation system	Lump Sum	1	
Main Bid	36	Methane Zone Mitigation: For furnishing transportation, labor, materials, and equipment to furnish and install methane zone mitigation	Lump Sum	1	
Main Bid	37	Import Custom Topsoil: For furnishing transportation, labor, materials, and equipment to furnish, place, and grade custom topsoil including each type of planting soil except palm tree planting soil, including additions to or deductions from the approximate quantity stipulated	Cubic Yards	22400	
Main Bid	38	Plant Establishment, Landscape Maintenance, and Site Care: For furnishing transportation, labor, materials, and equipment to perform plant establishment, maintenance of landscape, and site care	Lump Sum	1	
Main Bid	39	Palm Trees: For furnishing transportation, labor, materials, and equipment to furnish and install 15-foot BTH palm trees in place including palm tree planting soil, in the species shown on Drawings, including additions to or deductions from the approximate quantity stipulated	Each	60	
Main Bid	40	48 Inch Box Trees: For furnishing transportation, labor, materials, and equipment to furnish and install 48 inch box trees in place, in the species shown on Drawings with double staking, including additions to or deductions from the approximate quantity stipulated	Each	200	

SUBMIT BIDS ONLINE

Main Bid	41	36 Inch Box Trees: For furnishing transportation, labor, materials, and equipment to furnish and install 36 inch box trees in place, in the species shown on Drawings with double staking, including additions to or deductions from the approximate quantity stipulated	Each	15	
Main Bid	42	15 Gallon Shrubs: For furnishing transportation, labor, materials, and equipment to furnish and install 15 gallon shrubs in place, in the species shown on Drawings, including additions to or deductions from the approximate quantity stipulated	Each	655	
Main Bid	43	5 Gallon Shrubs: For furnishing transportation, labor, materials, and equipment to furnish and install 5 gallon shrubs in place, in the species shown on Drawings, including additions to or deductions from the approximate quantity stipulated	Each	3966	
Main Bid	44	Worksite Traffic Control: For furnishing transportation, labor, materials, and equipment to perform worksite traffic control during construction	Lump Sum	1	
Main Bid	45	Traffic Signage: For furnishing transportation, labor, materials, and equipment to furnish and install traffic signage and related appurtenances shown on Drawings, complete and operational	Lump Sum	1	
Main Bid	46	Traffic Signal: For furnishing transportation, labor, materials, and equipment to furnish and install traffic signal and related appurtenances shown on Drawings, complete and operational	Lump Sum	1	
Main Bid	47	Restroom Building: For furnishing transportation, labor, materials, and equipment to furnish and install restroom building, complete and operational including but not limited to mechanical, electrical, plumbing, heating, ventilating, and air-conditioning (HVAC), and sanitary sewerage system	Lump Sum	1	

SUBMIT BIDS ONLINE

Main Bid	48	Railroad Flag Person(s): For furnishing transportation, labor, materials, and equipment to provide PHL railroad flag person(s), including additions to or deductions from the approximate quantity stipulated	12 hour days	180	
Main Bid	49	Dewatering: For furnishing transportation, labor, materials, and equipment to dewater during excavating and trenching operations	Lump Sum	1	
Contingency Item	50	Subgrade Stabilization: For furnishing transportation, labor, materials, and equipment to excavate, remove, and dispose of unsuitable subgrade to furnish, place, and compact subgrade stabilization material, 1-inch nominal gradation, and place geotextile, including additions to or deductions from the approximate quantity stipulated	Cubic Yards	200	
Contingency Item	51	Qualified Precipitation Event (QPE) Sampling and Testing for pH and Turbidity: For furnishing transportation, labor, materials, and equipment to sample during rainy days Project qualified precipitation event and test for pH and turbidity, including additions to or deductions from the approximate quantity stipulated	Qualified Precipitation Event	12	
Contingency Item	52	Restrike 24-Inch Octagonal Concrete Production Piles without CAPWAP and PDA: For furnishing transportation, labor, materials, and equipment to restrike 24-inch octagonal concrete production piles without CAPWAP and PDA, including additions to or deductions from the approximate quantity stipulated	Each	9	
Contingency Item	53	Restrike 24-Inch Octagonal Concrete Production Piles with CAPWAP and PDA: For furnishing transportation, labor, materials, and equipment to restrike 24-inch octagonal and concrete production piles with CAPWAP and PDA, including additions to or deductions from the approximate quantity stipulated	Each	9	

SUBMIT BIDS ONLINE

Contingency Item	54	Restrike 24-Inch Octagonal Concrete Indicator Piles with CAPWAP and PDA: For furnishing transportation, labor, materials, and equipment to restrike 24-inch octagonal concrete indicator piles with CAPWAP and PDA, including additions to or deductions from the approximate quantity stipulated	Each	9	
Contingency Item	55	Spudding of Obstructions: For furnishing transportation, labor, materials, and equipment for spudding of obstructions during pile driving, including additions to or deductions from the approximate quantity stipulated	Each	10	
Contingency Item	56	Concrete Pile Buildups Greater than 6 Inches and Less than 4 Feet in Height: For furnishing transportation, labor, materials, and equipment to construct concrete pile buildups greater than 6 inches and less than 4 feet in height, including additions to or deductions from the approximate quantity stipulated	Each	5	
Contingency Item	57	Break Off and Dispose of 24-Inch Octagonal Concrete Production Piles: For furnishing transportation, labor, materials, and equipment to break off, remove, and dispose of 24-inch octagonal and 14-inch square concrete production piles, including additions to or deductions from the approximate quantity stipulated	Each	5	
Contingency Item	58	Pile Cut Off Over 6 Feet in Length: For furnishing transportation, labor, materials, and equipment to cut off, remove, and dispose of pile cut offs exceeding 6 feet in length, including additions to or deductions from the approximate quantity stipulated	Each	5	
Allowance Item	59	Modifications Related to Public Art: Bidder shall include in the bid the listed allowance to provide modifications including but not limited to utilities and demolition in coordination with public art installation as directed by the Engineer	Lump Sum	1	540,000

SUBMIT BIDS ONLINE

Allowance Item	60	Work Associated with Regulatory Agency Change and Additional Requirements: Bidder shall include in the bid the listed allowance to perform work as required by agencies due to regulatory changes and additional requirements as directed by the Engineer	Lump Sum	1	100,000
Allowance Item	61	Unforeseen Contaminated and Hazardous Soil and Groundwater: Bidder shall include in the bid the listed allowance to remove and dispose of contaminated and hazardous soil and groundwater	Lump Sum	1	200,000
Allowance Item	62	Unforeseen Utility and Substructure Modifications, Abandonment, Removals, and Additions: Bidder shall include in the bid the listed allowance to perform unforeseen utility and substructure modifications, abandonment, removals, and additions as approved by the Engineer	Lump Sum	1	400,000
Allowance Item	63	Internet-Based Project Management: Bidder shall include in the bid the listed allowance to provide internet-based project management	Lump Sum	1	45,000
Allowance Item	64	Premium Time for Schedule Acceleration/Overtime: Bidder shall include in the bid the listed allowance to account for labor premium time pay differential for schedule acceleration or overtime as approved by Engineer	Lump Sum	1	200,000
Allowance Item	65	Modifications Due to Misaligned Piles: Bidder shall include in the bid the listed allowance to construct staylath, falsework, formwork modifications, reinforcement, and concrete required to accommodate misaligned concrete and steel piles, or as directed by Engineer	Lump Sum	1	200,000

END OF SECTION

SUBMIT BIDS ONLINE

APPENDIX "H"

BRIDGE SPECIAL PROVISIONS

Avalon Pedestrian Bridge

Bridge Special Provisions

April 11, 2025

Revision No. 0

Prepared For:

THE PORT OF LOS ANGELES
ENGINEERING DIVISION
425 S. PALOS VERDES STREET SAN PEDRO CA 90731-3309

Prepared By:

TYLin

STANDARD PLANS LIST

The standard plan sheets applicable to this Contract include those listed below. The applicable revised standard plans (RSPs) listed below are included in the project plans.

	ABBREVIATIONS, LINES, SYMBOLS, AND LEGEND
A3A	**Abbreviations (Sheet 1 of 3)**
A3B	**Abbreviations (Sheet 2 of 3)**
A3C	**Abbreviations (Sheet 3 of 3)**
A10A	**Legend - Lines and Symbols (Sheet 1 of 5)**
A10B	**Legend - Lines and Symbols (Sheet 2 of 5)**
A10C	**Legend - Lines and Symbols (Sheet 3 of 5)**
A10D	**Legend - Lines and Symbols (Sheet 4 of 5)**
A10E	**Legend - Lines and Symbols (Sheet 5 of 5)**
RSP A10F	**Legend - Soil (Sheet 1 of 2)**
RSP A10G	**Legend - Soil (Sheet 2 of 2)**
A62B	**Limits of Payment for Excavation and Backfill - Bridge Surcharge and Wall**
A62C	**Limits of Payment for Excavation and Backfill - Bridge**
	TEMPORARY CRASH CUSHIONS, RAILING AND TRAFFIC SCREEN
RSP T1A	**Temporary Crash Cushion, Sand Filled (Unidirectional)**
RSP T1A1	**Temporary Crash Cushion, Sand Filled (Unidirectional)**
RSP T1B	**Temporary Crash Cushion, Sand Filled (Bidirectional)**
RSP T2	**Temporary Crash Cushion, Sand Filled (Shoulder Installations)**
T3A	**Temporary Railing (Type K)**
T3B	**Temporary Railing (Type K)**
	BRIDGE DETAILS
B0-1	**Bridge Details**
B0-3	**Bridge Details**
B0-5	**Bridge Details**
B0-13	**Bridge Details**
	RETAINING WALLS
B3-5	**Retaining Wall Details No. 1**
B3-6	**Retaining Wall Details No. 2**
	T-BEAM DETAILS
B6-10	**Utility Openings - T-Beam**
	BOX GIRDER DETAILS
B7-1	**Box Girder Details**
	CAST-IN-PLACE POST-TENSIONED GIRDER
B8-5	**Cast-In-Place Post-Tensioned Girder Details**
	CONCRETE BARRIERS
B14-5	**Water Supply Line (Details) (Pipe Sizes Less Than 4")**
	ROADSIDE SIGNS
RS1	**Roadside Signs - Typical Installation Details No. 1**
RS2	**Roadside Signs - Wood Post - Typical Installation Details No. 2**
RS4	**Roadside Signs - Typical Installation Details No. 4**

ORGANIZATION

Special provisions are under headings that correspond with the main-section headings of the *Standard Specifications*. A main-section heading is a heading shown in the table of contents of the *Standard Specifications*.

Each special provision begins with a revision clause that describes or introduces a revision to the *Standard Specifications*.

Any paragraph added or deleted by a revision clause does not change the paragraph numbering of the *Standard Specifications* for any other reference to a paragraph of the *Standard Specifications*.

^^

DIVISION I GENERAL PROVISIONS

5 CONTROL OF WORK

Replace section 5-1.14 with:

5-1.14 SAFETY QUALITY CONTROL MANAGER

5-1.14A General

Allocate a full-time, on-site safety quality control manager (SQCM) to project safety, for the duration of this Contract. The SQCM must be available after hours as needed. The SQCM is not required to be on-site during a plant establishment period or when no work is being performed during project temporary suspensions.

Develop a written site-specific safety program (SSSP) that incorporates known hazards associated with the project.

5-1.14A(1) Submittals

Submit a resume of the SQCM before starting work on the project, including education, heavy construction safety experience, and completed safety training.

Submit a copy of the SQCM's certificates for Cal/OSHA 30-hour construction training course and traffic control supervisor training as an informational submittal. The certificate must include:

1. Names of Department authorized entity providing certification
2. Name of the individual receiving certification
3. Date when the certification was provided
4. Expiration date

Submit a copy of the SSSP as informational submittals:

1. At least 15 days before starting work
2. At least 48 hours before starting work whenever a revision is made to the SSSP

Submit daily safety status reports within two business days of report date, including completed construction site safety inspection checklists as informational submittals.

5-1.14A(2) Quality Assurance

5-1.14A(2)(a) General

Not Used

5-1.14A(2)(b) Certifications

The SQCM must have completed training and received a certificate of completion for:

1. Cal/OSHA 30-hour construction training course

2. Traffic control supervisor certification. Department authorized traffic control supervisor training providers list is available at:

   https://dot.ca.gov/programs/construction/safety-traffic/safety-training-courses

The SQCM must have one of the following certifications from the Board of Certified Safety Professionals:

1. Certified Safety Professional
2. Construction Health and Safety Technician
3. Occupational Hygiene and Safety Technician

5-1.14A(2)(c) Qualifications

The SQCM must be a competent and qualified person, as defined by Cal/OSHA, and must provide safety oversight on the project. The SQCM must have:

1. Four-year college degree
2. At least 5 years of experience in heavy construction safety
3. Knowledge in the area of safety procedure for all types of work being performed on this project
4. Knowledge of Caltrans specifications and plans, Cal/OSHA policy and procedures, and California Code of Regulations Title 8 safety requirements

The SQCM must have completed safety training and maintain valid certifications for:

1. First aid
2. Cardiopulmonary resuscitation (CPR)
3. Confined space
4. Fall protection

5-1.14B Materials

Not Used

5-1.14C Construction

The SQCM must be available by:

1. Cellular telephone
2. Two-way radio
3. Mobile internet access

The SQCM must:

1. Develop the SSSP
2. Confirm each worker’s compliance with the Cal/OSHA drug testing requirements
3. Conduct the on-site new project orientation for each worker assigned to the project
4. Review the construction work plans for each subcontractor before starting work
5. Conduct or attend pre-planning sessions for high hazard work such as excavations, demolition, confined space entry, falsework, crane hoisting, high-risk utilities such as, high pressure pipelines with fuel or natural gas, and tunneling or boring
6. Conduct weekly job site safety meetings
7. Review work schedules including subcontractors', to ensure adequacy of job hazard analyses and address all safety concerns and issues
8. Ensure SDSs are available on-site for all materials and have a hazard communication program for informing workers of material hazards
9. Verify compliance with hazardous waste requirements under section 14-11, including spill prevention and control measures
10. Conduct daily safety inspection of the job site for hazards and compliance with safety requirements in the specifications and 8 CA Code of Regs
11. Document safety inspections at every location where construction activity is active using a construction site safety inspection checklist that includes at a minimum:
    11.1. Date
    11.2. Name of inspector

11.3. Inspection location
11.4. Construction activity
11.5. Name of foreperson
11.6. Safety topics that include:
    11.6.1. General
    11.6.2. Housekeeping and sanitation
    11.6.3. Fire prevention
    11.6.4. Personal protective equipment
    11.6.5. Electrical safety
    11.6.6. Hand and power tools
    11.6.7. Falsework safety
    11.6.8. Scaffolding safety
    11.6.9. Ladder safety
    11.6.10. Excavations and trenches
    11.6.11. Heavy equipment
    11.6.12. Cranes
    11.6.13. Concrete construction
    11.6.14. Steel erection
    11.6.15. Welding and cutting
    11.6.16. HMA or concrete paving
    11.6.17. Tunneling
    11.6.18. Confined space
    11.6.19. Fall protection
    11.6.20. Methane
12. Ensure that the lane closure traffic control daily report is completed by the traffic control technicians and traffic control daily review report is completed by the traffic control supervisor when a traffic control supervisor is required
13. Review the lane closure traffic control daily reports and traffic control daily review reports for any work zone related safety issues
14. Revise SSSP to include procedures to mitigate hazardous situations identified in construction site safety inspections, lane closure traffic control daily reports, and traffic control daily review reports
15. Investigate any near misses or reported incidents in a timely manner and take appropriate action to prevent similar incidents in the future
16. Report all incidents to the Engineer immediately, including the investigation of any close calls
17. Prepare a daily safety status report that includes:
    17.1. Daily construction work activities, including temporary traffic control
    17.2. Safety related field activities
    17.3. Identified safety deficiencies and corrective actions taken
    17.4. Meetings, conversations, and other communications related to safety issues
    17.5. Any reported near misses or incidents
18. Submit daily safety status reports to the Contractor's on-site superintendent for submittal to the Engineer

When monitoring work zone, take immediate corrective action and notify the Engineer if an imminent danger is identified.

If the Engineer determines the SQCM is not meeting the intended duties and responsibilities, you must replace the SQCM within 30 days of written notice from the Engineer. If you need to replace the SQCM, notify the Engineer and provide replacement SQCM resume and required certifications at least 15 days before the replacement.

5-1.14D Payment

Not Used

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6 CONTROL OF MATERIALS

Add to paragraph 1 of section 6-2.02C:

QC Manager must have at least 10 years of bridge construction quality control experience which includes a minimum of 1 cable supported bridge. Submit QC Manager qualifications to POLA for review and approval.

^^^

Add section 19-3.03B(6) Dewatering:

The Department will not obtain a NPDES (National Pollutant Discharge Elimination System) Permit for dewatering. If the Contractor chooses to dewater, Contractor shall be responsible for obtaining the NPDES Permit, paying for fees, complying with the requirements, and ensuring there is no impact to the schedule.

Submit to the Engineer for approval, a schedule for dewatering operations and a list of proposed methods and equipment.

The approximate groundwater elevation is available in the Geotechnical Design Report and the report has been included in the bid package. Due to the close proximity to the ocean, the groundwater at the Project site is influenced by tidal fluctuations. The groundwater is known to be impacted with contaminants and has been identified in the Soil Management Plan which is included in the bid package. Contractor shall expect to dewater the rate of groundwater flow estimated based on the following soil permeability parameters and assume water is contaminated and hazardous.

Approximate Elevation (ft, MLLW)	Soil Type	Coefficient of Permeability (ft/min)
Ground Surface to minus 2	Loose to Medium Dense Silty Sand (SM)	10^-3
Minus 2 to minus 20	Soft to Hard Lean Clay, Fat Clay, Silt and Elastic Silt (CL,CHJ, ML, MH) with interbedded layers of Silty Sand	10^-6

Provide an adequate dewatering system for the control of surface, ground, and sea water in the trench excavations and elsewhere in the Project as may be necessary during the construction period. Keep excavation dry during construction operations. Keep water table 1 foot below the bottom of the excavation until backfill has been completed.

Water extracted by the dewatering shall be disposed of by Contractor off Department Property in such a manner as will not damage public or private property or create a nuisance or health menace.

De-silt the water before discharging it.

The Los Angeles Region of the California Regional Water Quality Control Board (CRWQCB) classifies water used in construction as construction wastewater, the disposal of which is subject to their regulations. Reference shall be made to requirements for discharge and monitoring of wastewater as issued by the CRWQCB, Los Angeles Region.

Except for shutdowns for maintenance of dewatering equipment, no interruptions in the dewatering system procedures shall be permitted during excavation and construction operations. Provide full-time surveillance and maintenance, 24 hours per day, to avoid breakdowns. Where at all possible, Contractor shall avoid removing groundwater from excavations.

^^^

Revise paragraph 2 of section 48-2.01C(2):

Shop drawings and calculations must be signed by an engineer who is registered as a civil engineer in the State for bridge falsework.

Add to paragraph 4 of section 48-2.01C(2):

13. Method of vibration for each portion
14. Injection portals for concrete
15. Cal/OSHA compliant construction and inspection access for arch

Add to section 48-2.01C(2):

Do not begin falsework removal without approval by the Engineer. The Construction Manual Engineer must be on site during all falsework release and removal activities.

Submit shop drawings with supporting calculations for arch construction engineering.

Arch construction engineering must be prepared and signed by an engineer who is registered as a civil engineer in the State.

Detailed procedures for installing cable anchorages, cable assemblies, stressing cables and maintaining geometric control of the bridge must be developed and submitted to the Engineer for approval. Complete shop drawings with supporting calculations must be submitted showing all equipment and procedures required for stay cable force adjustments and for complete dimensioning. No approval will be given to any portion of the stay cable anchor assembly or procedures until all required submittals are made and accepted by the Engineer.

The Contractor shall submit drawings illustrating fully their proposed method of stay cable erection and installation. Drawings shall show details of all lifting and handling devices and attachments to the stay cables: the sequence of erection, location and capacities of lifting equipment as well as location of lifting points on the stay cables, and weights of the stay cables.

Arch construction engineering must be complete in detail for all phases and conditions during the stay cable installation. The results of all design computations and computer analyses prepared by the Contractor to determine erection stresses, reactions, geometry, and cable adjustments, at each stage of erection, must be submitted to the Engineer for review as part of the arch construction engineering.

Calculations must be submitted to the Engineer shown the service stresses in all load bearing components of anchorage assemblies. Values shown on the stay cable cable data sheets are based on design loads and geometry and do not anticipate temporary configurations during erection.

Before erection, the Contractor shall furnish to the Engineer dead load computations based on weights and geometry from approved shop drawings to verify final dead load assumptions and cable forces/lengths.

Based on the Contractor's falsework, construction equipment, and procedures, the Contractor must compute and prepare a table of anticipated cable tensions in each cable at corresponding stages of erection and after full dead load, including wearing surfaces, planters, and railings. The table of anticipated cable tensions and computations must be submitted to the Engineer for review.

Details, including cable lengths, must be developed by the Contractor to provide proper final dead load geometry and cable tensions. The Contractor's details must show the proposed cable assembly fabrication lengths and final lengths of cables, including initial and final geometry of the arch and deck, to ensure there is adequate capacity to adjust each stay cable.

Arch construction engineering must include a cable installation procedure which describes cable force and elongation for the installation of each stay cable cable. Deck and arch elevations for each jacking operation must be included and be utilized to establish the priority of force or elongation for control of the jacking operation. This procedure must stipulate the permissible variance between force and elongation and deck/arch elevation for each cable installed.

Changes to the construction and erection sequence or procedure from those used in the development of the cable installation procedure must be incorporated in revisions to the cable installation procedure.

Jacks and gauges for stay cable cable installation must be calibrated within one month prior to the beginning of the cable installation, and every six months thereafter, for the duration of the cable installation. Calibration records must be submitted to the Engineer prior to jacking.

Permanent records must be established for each cable installation and be provided to the Engineer in electronic format and hard copy. The records must include survey records including: date, time and ambient temperatures; cable forces; cable elongation measurements; socket adjustments; deck loading conditions, and other special notations necessary and sufficient to establish the conditions under which the cable was installed.

The review time for shop drawings for specific structures or portions of structures is shown in the following table:

Structure or portion of structure	Total review time
Avalon Pedestrian Bridge	65 days

^^

49 PILING

Replace Section 49 “Piling” with:

Specification section 31 6213.23 “Prestressed Concrete Piles” and section 31 6214 “Concrete Indicator Pile Testing”.

^^

50 PRESTRESSING CONCRETE

Replace the 2nd paragraph of section 50-1.01C(3) with:

For initial review, submit:

1. 10 copies

Add to the table in the 1st paragraph of section 50-1.01C(5):

Prepackaged Grout	1	1-60 pound bag with manufacture date within 6 months of placement

^^

51 CONCRETE STRUCTURES

Add to section 51-1.01A:

The portions of the bridges shown in the following table must be constructed of mass concrete under section 51-6:

Bridge name and number	Portion of bridge
Avalon Pedestrian Bridge	Arch Strut and Base
Avalon Pedestrian Bridge	Arch Pile Caps

Add to the list in the 6th paragraph of section 51-1.01A:

Replace section 51-1.01D(2)(b)(iii) with:

51-1.01D(2)(b)(iii) Mock-ups

Construct a mock-up for arch rib.

For arch rib the mock-up must be 5 feet long and a minimum height of 5 feet from the ground.

Construct the mock-up using the personnel, materials, tools, equipment, and methods to be used in the arch rib work.

The mock-up forms must be similar to the forms used for the production element. Include in the mock-up the arch void, reinforcement, and concrete embedments shown.

The mock-up must demonstrate:

1. Vibration and concrete pour methods encapsulates the reinforcement and embedments and complies with section 51-1.03D
2. You are capable of constructing a bridge element within the anticipated time periods, including delivery, placement, finishing, curing times, and in similar atmospheric conditions expected during construction
3. Falsework provides access required for construction and inspection
4. Construction joint finishing

Place concrete in the mock-up in the Engineer's presence.

If the Engineer rejects the mock-up, construct additional mock-ups until the mock-up is authorized. The mock-up must be authorized before starting arch work.

Dispose of the mock-up.

Add to section 51-1.02B:

Revise the 3rd paragraph of section 51-1.02B:

Concrete as indicated in the Concrete Strength and Type Limits shown on the plans must contain:

Replace section 51-1.03A with:

51-1.03A General

Submit Integrated Shop Drawing (ISD) and Construction Manual for approval.

51-1.03A(1) Integrated Shop Drawing

ISD is three-dimensional and complies with the details shown on the plans. An ISD is required for the bridge excluding abutments and the sundial. The bridge ISD must extend from the bottom of pile cap to top of arch. ISDs must be approved prior to submittal of falsework shop drawings.

Utilize commercially available software that checks for interference in three dimensions. Prior beginning ISD development, submit to the Engineer the product name and application features of the software for review and approval to ensure software complies with this specification. Conflict identification software shall be compatible with the computer-aided drafting (CAD) software used to develop the ISD. Fastener components must be shown to correct length and with clearance envelopes for fastener tools. NAVD 88 datum shall be used to geodetically orient each ISD. Develop CAD files using different layers for each item such that the sequence of construction of the member or area being detailed can be shown.

The ISD is used to demonstrate understanding of the geometry shown on the plans and to identify all conflicts or interference between the planned positions of embedded items while satisfying the concrete cover shown on the plans.

If a conflict is identified, document the conflict and notify the Engineer. The Engineer will review the conflict and provide a resolution. Changes may be proposed to resolve the conflict. Proposed changes to embedded items must be made by an engineer who is registered as a civil engineer in the State.

Conflicts discovered by the ISD which are caused by the Contractor's proposed means and methods must be resolved by the Contractor and submitted to the Engineer for review and approval.

Proposed changes in the ISD shall be applied in the following sequence of item priority as necessary:

1. Non-structural embedded items
2. Bar reinforcing steel
3. Leveling bolts
4. Anchor studs
5. High strength anchor rods

The ISD must include the following:

1. Details corresponding to the final plans with locations of all conflicts indicated
2. Lists of conflicts with descriptions of each conflict
3. Updated ISD with proposed modifications incorporated. Indicate that all previous conflicts have been resolved and details shown on the plans are met
4. CAD file and PDFa for use by the Engineer

Allow 25 days for the Engineer's review. CAD files of the contract drawings will not be made available.

51-1.03A(2) Construction Manual

Construction Manual may contain erection sequences similar to the suggested sequence shown on the Contract Plans or alternative sequences. The manual must be signed by an engineer who is registered as a civil engineer in the State.

The Construction Manual must address the intended method of constructing:

1. Falsework installation and removal
2. Concrete placement
3. Cable erection
4. Temporary Support Structures

Submit a Draft Construction Manual and Final Construction Manual.

The Draft Construction Manual is intended to:

1. Illustrate the status of engineering efforts related to the bridge erection.
2. Present the format of the Construction Manual intended to fulfill the requirements identified in the Specifications.
3. Communicate the specific sequence of activities planned for bridge erection.

Submit the Final Construction Manual prior to the beginning of falsework, concrete placement, and cable erection. At the Contractor's option, the Final Construction Manual may be submitted in parts, addressing each of the items individually. Submit the Final Construction Manual in advance of the date scheduled for beginning the work for each item to afford the Engineer 15 working days review prior to commencement of work. The review of the Final Construction Manual by the Engineer does not relieve the Contractor of the full responsibility for the safety and adequacy of the work.

The Construction Manual must include, but not be limited to the following:

1. Detailed Design

Provide detailed design of all erection equipment, falsework bents, temporary bracing and items required for erection of the arch and temporary supporting structures, cables, and installation procedures including schedules for all temporary falsework, including any proposed limits of required excavation and subsequent recompaction of the temporary staging work areas. Prestressing sequence and procedures must be included.

2. Methods and Procedures
    a. Sequence and manner of construction
    b. Details and limits of any structure including temporary falsework
    c. Sequence of installing temporary falsework bents, removing temporary falsework bents and transferring loads to cables
    d. Details including provisions for stabilizing partially erected arch and temporary supporting structures during the various stages of construction
    e. Sequence and schedule for prestressing
    f. Sequence and schedule for falsework, movement of equipment, support jacking, stressing and stressing order of cables and erection elevations
    g. Details of the disposition and use of special erection equipment, falsework, and temporary supports, including all loads or reactions from equipment applied to the structure during erection and sequences and timings of these effects in accordance with the erection schedule
    h. Procedures and details of equipment used to verify loads in cables
    i. Sequence and manner of installing tuned mass damper system (if required)

3. Computations
    a. The expected maximum bearing, shear, compression and tensile stresses in the falsework and piers as may be produced with the Contractor's proposed sequences and methods of erection.
    b. Minimum and maximum vertical reactions at all temporary support locations
    c. Design of any temporary foundations required to support falsework bents
    d. Design of all falsework bents and temporary bracing and subsequent temporary connections to the permanent structure
    e. Verification that the permanent structure is not overstressed during erection and other construction activities
    f. The expected maximum shear, compression and tensile stresses and deflections in the superstructure and arch as may be produced with the Contractor's proposed sequences and methods of erection
    g. Methods and procedures for tracking, verifying and correcting arch and superstructure geometry at each construction stage

Add section 51-8:

51-8 ARCHITECTURAL DECK TREATMENT

51-8.01 GENERAL

51-8.01A Summary

Section 51-8 includes specifications for constructing architectural deck treatment shown on the plans. Shawtex Ecocrete™ must be used for architectural deck treatment.

51-8.01B Definitions

Not Used

51-8.01C Submittals

Submit qualifications of certified for Shawtex Ecocrete™ and Shawtex® installer. This information shall provide evidence to indicate successful experience in providing concrete work identical to this project. A listing of projects must be provided and must be reviewed and approved as comparable projects to the specified work by the Engineer. The submittal shall provide the Owner and Architect with evidence of successful experience in the installation of Shawtex Ecocrete™ and Shawtex® similar to that specified herein and can demonstrate successful experience through past project documentation and references.

Submit Pour Sequence Plan indicating construction joints and layout of architectural concrete work. Provide dimensions of each color shown on the plans.

Submit a 1 pound sample of each Shawtex Ecocrete™ aggregate specified.

51-8.01D Quality Assurance

51-8.01D(1) General

Only experienced Architectural Cast-in-place Concrete installers, who are certified to install the Shawtex Ecocrete™ system and Shawtex™ products are acceptable for this project. Acceptance of certification will be based on proof of certification, experience and approved samples and mockups to be provided within 30 days after Notice to proceed. If the timeframe is exceeded, suitable certification/experience is not provided, or mockups are unacceptable – the installer will not be eligible to install the project.

51-8.01D(2) Mock-ups

Contractor must prepare a 10 by 20 feet mock-up for review by the Engineer. Mock-up must include color, texture, and sawcuts. Approved referee samples have been prepared for this project. Approved samples #21-015a-sd, 21-015b-sd for this project are available at (*location TBD*), as prepared by T.B. Penick & Sons, Inc. Contact T.B. Penick & Sons, Inc., Frank Klemaske, 800.239.3046.

51-8.02 MATERIALS

Shawtex™ architectural concrete products and Shawtex Ecocrete™ concrete installations are covered by one or more of the following United States Letters Patent number: 10,752,837. Other patents pending.

Shawtex Ecocrete™ maybe comprised of, but are not limited to Granite, Marble, Shale, Slag, Soapstone, Glass, Sea Shells, Limestone, Beach and River Pebbles , Silica Carbide,Spar,Mica and all other inert and reactive aggregates. All aggregate sizes apply to this specification.

The Shawtex Ecocrete™ process incorporates use of following biodegradable products:

1. Shawtex™ Finish Line biodegradable etching and cleaning formula
2. Shawtex Superior FX Sealer

Use the following manufacturer for architectural concrete curing:

1. Admixtures Inc.; Colorful Clear Curing Compound – (626) 357-3263 or http://admixtures.home.att.net/

51-8.03 CONSTRUCTION

51-8.03A Slip Resistance

Provide a finish with a slip resistance of equal or greater than 0.65 in accordance with ASTM F 489.

51-8.03B Installation

For certified Shawtex Ecocrete™ installers, see elsewhere in this specification or contact Shawtex®, Inc. at 949 683 5602 or leeshaw949@gmail.com.

Shawtex Ecocrete™ and Shawtex® products shall be installed per U.S. patent #10,752,837 and U.S. patents pending.

After Shawtex Ecocrete™ is placed, cure concrete for a minimum of seven (7) days without foot traffic and a minimum thirty (30) days without vehicular traffic. If a curing compound is required, refer to Section 51-8.02 of this specification for acceptable curing compounds for use with Shawtex Ecocrete™ or install a moisture retaining, non-staining, non-woven, curing cover and maintain sufficient moisture under cover to provide for 100% humidity conditions at Shawtex Ecocrete™ surface for a minimum of 7 days. Cover shall be reflective in nature to prevent excessive heat buildup under cover and allow for optimal curing conditions.

51-8.03C Etching and Cleaning

For etched surfaces that exhibit Shawtex Ecocrete™ broadcast aggregates smaller than 1/8” or to expose integral sand particles spray the surface with Shawtex™ Finish Line biodegradable and sustainable formula and rinse with potable water with a pressure washer not exceeding 3,500 PSI at least 24 hr from time of concrete placement.

For exposed Shawtex Ecocrete™ broadcast aggregates larger than 1/8” and that are exposed with a biodegradable surface retarder such as Shawtex Ecocrete™ sustainable retarding agent (or approved equal), spray the entire surface with a blend of Shawtex Finish Line biodegradable formula and potable water. This activity will remove unwanted efflorescence and any surface film on the exposed Shawtex Ecocrete™ aggregate architectural concrete paving or walls. Repeat process as necessary.

51-8.03D Sealing

Seal surface using using Shawtex™ Superior FX 20 year guarantee repellent, penetrating sealer. For a matte or gloss finish, install Shawtex™ Superior HD, Zero VOC topical sealer.

Final cleaning, staining, caulking, and sealing operations shall not commence until the Shawtex Ecocrete™ surfaces have been completely and properly cured or 28 days, whichever is later.

Follow Shawtex Ecocrete™ Sealer directions when applying.

51-8.04 Payment

The payment quantity for architectural deck treatment is the area measured from the plans.

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55 STEEL STRUCTURES

Add to section 55-1.02D(2):

Steel for fracture critical members must:

1. Comply with CVN impact requirements for Zone 2, welding, and welding inspection in "AASHTO/AWS Fracture Control Plan (FCP) for Non-Redundant Members" of AWS D1.5.
2. Be produced by a fabricator certified under *AISC Certification Program for Steel Bridge Fabricators, Intermediate Bridges with Fracture-Critical Members*.

Replace "Reserved" in section 55-4 with:

55-4 STAY CABLE CABLES

55-4.01 GENERAL

55-4.01A Summary

Section 55-4 includes specifications for fabricating, furnishing and installing stay cable cables for the Avalon Pedestrian Bridge. Components of stay cable cables include:

1. Zn95/Al5 Coated Carbon Steel Cables
2. Galvanized Fatigue Resistant Adjustable Open Spelter or Resin Socket

55-4.01B Definitions

spelter: A metal alloy in which zinc is the main constituent.

fully locked wires: Strands that are made of shaped high-strength wires which helically spun around a core covered with interlocking, Z-shaped wires.

killed steel: steel that has been completely deoxidized by the addition of an agent before casting.

Characteristic breaking strength: the force the cable system, including all fittings and clamps, has to withstand before failure.

f_{CBL}: the stress in the cable system due to the minimum characteristic breaking load shown on the plans.

Zn95/Al5: 95% zinc and 5% aluminum coating for full locked cables.

55-4.01C Submittals

55-4.01C(1) Shop Drawings and Calculations

Submit complete cable system fabrication engineering documents and supporting calculations for furnishing and fabricating the stay cable system including the following:

1. Stay cable cables manufacturing procedures.
2. Written procedures for quality control and testing during cable manufacturing procedures.
3. Written procedures and drawings for stretching, measuring, and socketing the cables.

Submit complete stay cable cable system construction engineering documents and supporting calculations for erection of the cable systems including the following:

1. Erection drawings, written procedures, and calculations showing the temporary works required for the stay cable cable system construction, including strand storage, unreeling procedures and equipment.
2. Erection plan and corresponding suspender cable forces, consistent with loads shown on the plans.
3. Erection drawings, calculations, and written procedures showing each sequence for each stage of construction of the suspender cable system, release of falsework and transfer of the suspender load. Include calculations for creep, elongation, and temperature effects. Submit procedures for measuring the forces in the suspender cables.
4. Erection drawings and written procedures showing installation of the cable anchor assembly for the stay cable cables, construction of the stay cable cable system and transfer of load through the adjustable spelter socket connection.

Shop drawings and calculations must be sealed and signed by an engineer who is registered as a civil engineer in the State.

Allow 30 days for review of the stay cable cable system shop drawings.

55-4.01C(2) Production Test Report

Gather and submit three (3) copies of all test data and Certificates of Compliance related to the manufacturing, fabrication and inspection of the cables, connections and assembly in a final report before any fabrication. The Certificates of Compliance must be from the most recent testing performed at an independent ISO 17025 accredited laboratory. Standard data and catalog cut sheets from the cable manufacturer will not be considered sufficient. Include the following in the final report:

1. Laboratories where tests were conducted.
2. Certificates of calibration.
3. Names of standard tests.
4. A brief description of what is being tested and all test data, including stress strain curves or load deformation curves, and test data from manufacturers.

Submit three (3) copies of certified mill test reports for each heat of steel used for wire manufacture and for cable connection steel. Mill test reports must include heat and product analysis reports. Mill test reports must be traceable to individual strands.

Submit certificates of compliance for wire and cable mechanical properties and inspection requirements in accordance to the standards referenced in this special provision. Submit Zn95/Al5 and galvanized coating properties in accordance to the referenced standards.

If the cable supplier is located outside of the United States, submit a current registration document certifying the supplier has established and applies a Quality Management System for Development, Manufacture, and Distribution of Wire Rope Systems, Building Systems, and Material Handling Systems, fulfilling the requirements of ISO 9001:2000.

Submit a 10-year manufacturer's warranty of structural components to be free from manufacturing defects from date of project completion.

55-4.01C(3) QA Test Sample

Prior to installation submit actual size test samples for the following components. The test samples must be authorized before the installation of the cables.

1. Three fully locked stay cable cables (10 feet minimum length) with cable end fitting with corrosion protection for characteristic breaking strength testing.
2. Two samples of each cable fitting/attachment/connector with corrosion protection as specified.

Fabricate and finish each assembly test sample and cable fitting using the same materials and methods to be used for the production cable assembly, in accordance with these special provisions and the details shown on the plans. The cable assembly samples must be tested in accordance with these special provisions and must be witnessed by the Engineer. Submit cable fitting/attachment/connector samples with the Production Test Report.

55-4.01D Quality Control and Assurance

55-4.01D(1) General

Not Used

55-4.01D(2) Stay cable Cable System Quality Control

The Contractor must designate in writing a Stay cable Cable Quality Control Manager (CQCM) under section 11-1.02. The CQCM must be responsible for the quality control of furnishing and fabricating the Stay cable Cables including the materials testing program.

The CQCM must review, guide, and monitor the shop inspection and shop quality control program, make shop visits at various stages of fabrication as required, and submit certificates of compliance for the materials and fabrication of the cable system.

The CQCM must prepare test procedures and programs for testing the cable stay cable cable assembly for compliance with these requirements. The CQCM must review the materials and assembly test results, obtain and review certificates of compliance from the suppliers of materials for the stay cable cable System, and submit the results.

The Engineer must have unrestricted access to all manufacturing fabrication and testing performed at the manufacturer's facilities or shipping and storage facilities. The manufacturer must afford the Engineer the necessary facilities to witness the tests for characteristic breaking strength and fatigue of the QA Test Samples. The manufacturer must also afford the Engineer the necessary facilities to witness the MT and UT tests for the stay cable cable fatigue resistant spelter sockets and pins.

55-4.01D(3) Production Testing

Submit a Certificate of Compliance with the following specifications for fabrication of the stay cable cables and their corresponding sockets and connections:

Inspection and Testing during Fabrication of Wires and Cables

Component	ASTM Specification	EN Equivalent
Wires	ASTM A475, ASTM A586	EN 10264-1, EN 10264-2, EN 10264-3,
Full Locked Zn95/Al5 Coated Cables	ASTM A603	EN 12385-1, EN 12385-2, EN 12385-10

Inspection and Testing during Fabrication of Sockets and Connections

Test/Inspection	ASTM Specification	EN Equivalent
Magnetic particle testing (MT)	ASTM E-709/ ASTM E-125/ASTM A788-S18	EN 1369
X-Ray Testing	ASTM E446, ASTM E280, or ASTM E186 (quality level 2)	EN 444
Surface Crack (Visual) Testing	-	EN 1370
Ultrasonic Testing (UT)	ASTM A788-S20	EN 12680-1(severity level 2), EN ISO 9712

All castings must be designed and manufactured to develop 100% of the specified breaking strength of the connected cable without yielding. Castings must not in any way impair the load carrying capacity and efficiency of the cable. Strength of pins for the stay cable cable spelter sockets as a minimum must develop the Characteristic Breaking Load of the stay cable cable.

All castings must be magnetic particle tested (MT) at critical areas to EN 1369 quality level 2 or ASTM E-709/ASTM A788-S18 with acceptance levels per ASTM E-125 as follows:

Acceptance level for castings

Type of Discontinuity	Acceptance Level
Linear Discontinuities	To be removed by grinding and blending
Shrinkage	2
Inclusions	2
Internal Chills-Chaplets	N/A
Porosity	1

Each socket must be stamped “MT” (indicating Magnetic Particle Inspection) adjacent to a non-machined area. All sockets must be cast with the pattern number/part number, material grade, heat number and foundry symbol.

All castings must be ultrasonic tested (UT) to EN 12680-1 (Quality Level 2) or ASTM A788-S20, Level D and Level DA in two perpendicular directions.

55-4.01D(4) Quality Assurance Testing

After completing the assembly of the stay cable cable QA Test Samples, including the end fittings, notify at least 20 days before the testing.

The tests on the QA Test Samples must include the end fitting and the testing must be performed in a manner that replicates the loading that the cables will experience. The tests must be performed in the presence of the Engineer.

55-4.01D(4)(a) Characteristic Breaking Strength

Test the QA Test Samples for the characteristic breaking strength of the cable and connection. The stay cable cable must achieve the Characteristic Breaking Load specified in the Plans. Tensile testing must be in accordance with EN 10002-1 or ASTM 370. All cable sockets and connections must develop the Characteristic Breaking Load of the cable. The sampling and testing of the cable must comply with ASTM A603.

55-4.01D(4)(c) Damping

Contractor shall utilize a cable vibration expert to perform cable tests at the end of construction to determine cable damping as log decrement. Vibration expert shall have expertise in wind and pedestrian excitation of structures and have experience performing structural dynamics measurement and analysis of at least three bridges. Contractor shall submit vibration expert qualifications and method statement to the Engineer for review and approval which details the testing to be performed. If cable vibrations greater than 1 diameter in amplitude are observed prior to the end of construction, the Engineer may require installation of cable damping.

Submit to the Engineer a report summarizing the findings.

1. Test results data provided in tabulated and graphical format. Submit the test data in pdf and Microsoft Excel format.
2. Transform all data using a Fast Fourier Transform (FFT) or equivalent method from the time domain to the frequency domain.

If the measured inherent damping of a cable is less than 0.06%, then the Contractor must provide dampers for cables as determined by cable testing. Submit shop drawings for proposed dampers and associated calculations to the Engineer for review and approval. Proposed damper system must have a minimum 50-year service life and include cable connections which prevent cable damage during installation and service life.

Notify the Engineer 2 weeks prior to installation of dampers.

Installation must be carried out in compliance with damper manufacturer's recommendations and approved Shop Drawings. Cables must not be twisted due to damper installation. Cables damaged by the Contractor during damper installation will be replaced at the Contractor's expense.

55-4.01D(5) Preconstruction Meeting

Schedule and hold a preconstruction meeting at least 5 business days after submitting the shop drawings and erection plan and at least 10 days before starting construction. You must provide a facility for the meeting. The Engineer, CQCM, fabricator, installer, and other subcontractors whose work interfaces with cable system must attend the meeting. The following items must be reviewed:

1. Method of attachment of components to supporting surfaces.
2. Detailed schedule of Works.
3. Installation, adjustment, cleaning, and protection of cable system.
4. Coordination with other Works.

55-4.02 MATERIALS

55-4.02A General

Purchase sufficient quantities of material considering the requirements for supplementary material testing, including material for testing described.

Individual wires for cable construction must be manufactured out of non-alloyed, killed steel molded quality steel. A minimum of two outer layers must be Z-profiled (full locked shaped) wire and must receive Zn95/Al5-coating (95% zinc and 5% aluminum) by a double-hot-dip process.

Inner layers must be helically spun round wires, cold drawn within the required tolerances. Diameter may not be smaller than 1/32-inch. The inner layers must be hot dip galvanized according to ASTM A586 Class A or EN 10244-2. Cavities in the cable's interior between heavy galvanized round wires and profile

wires must be filled with an active inner filling such as PU-oil-based zinc dust paint or low-solvent, highly pigmented single-component zinc paste.

The materials must comply with the requirements shown in the following tables:

Coatings

Component	ASTM Specification	EN Equivalent
Attachment of cables to sockets	ASTM B6-00	EN 13411-4
Zn95/Al5 (95% zinc and 5% aluminum) coating for Full Locked Cables	ASTM A856	EN 10244-2, EN 10218-1
Hot-dip-galvanized coating for Sockets and Connections	ASTM A153	EN ISO 1461

Steel Wires and Cables

Component	ASTM Specification	EN Equivalent
Outer layer - Z-wire	-	EN 10264-3
Inner layers - helically spun round wires	ASTM A475, ASTM A586	EN 10264-2
Full Locked Zn95/Al5 Coated Cables	ASTM A603	EN 12385-1, EN 12385-2, EN 12385-10

Sockets and Connections

Component	ASTM Specification	EN Equivalent
Fatigue resistant open spelter/resin socket for stay cable cable	ASTM A148 Gr. 105-85	EN 12844 / EN 13411-4
Pins for socket	ASTM A675 Grade 80, AISI 5160 Steel, Ftu=129ksi min, Fy=111ksi	EN 10083

Submit Certificates of Compliance of all listed materials to the referenced standards. Alternative materials may be utilized upon approval by the Engineer.

Stay cable cable assemblies must be one of or equal to one of the assemblies shown in the table, "Cable Part Information," provided by the manufacturers listed in the following table:

Suspender Cable Manufacturers

Manufacturer	Address	Contact Information
Pfeifer Seil und Hebetechnik GmbH	87700 Memmingen, Germany	Dr. .Karl Lenz Strasse tel. +49-8331-937-367 fax. +49-8331-937-350 www.pfeifer.us.com
Radaelli Engineering	UK Office: 20 Horton View, Doncaster, South Yorkshire, DN3 1SD Italy Office: Via A.Volta, 16, 20093 Cologno Monzese, Milano	David Ward, Regional Manager +44 (0)1302 378327 Mobile +44 (0)7585 600810 Email: david.ward@redaelli.com
Bridon	Geschäftsführung: Thomas Licht Registergericht:Gelsenkirchen 12 HR B 2184 USt-IDNr DE 811 883 171 Magdeburger Str. 14a Gelsenkirchen D-45881 Germany	Friedhelm (Eric) Rentmeister Technical Sales Manager | BRIDON International GmbH Tel +49 209 8001 168| Fax +49 209 8001 278 | Mob +49 171 8706 734
WireCo Structures	2400 West 75th Street Prairie Village, KS 66208	Timothy W. Klein, PE, P.Eng Director of Global Engineered Fabrications P: 816-270-4753 / C: 816-248-1833 Email - timklein@wirecoworldgroup.com

Cable Part Information

Manufacturer	Cable No.	Stay cable Cable Fitting No.
Pfeifer	PV Series-Full Locked Cable	Type 700 and 710 PV 150 Open Spelter Sockets
Radaelli Engineering	FLC Series-Full Locked Coil Strands	TTF and TBF Series Fork Socket
Bridon	LC Series-Locked Coil Strand	ST-F and ST-AF Series Fork Socket
WireCo Structures	WLC Series-Full locked coil strand	AR-FS and AD-FS Series Fork Sockets

Use of equivalent assemblies must be authorized.

Exposed fasteners must be of same materials, color and finish as material to which applied.

55-4.02B Fabrication

55-4.02B(1) General

Fully locked coil cables and all components must be fabricated by a single manufacturer.

Mark finished suspender cables for accurate field installation.

Field measurements: Take field measurements after permanent end terminations are in place and prior to preparation of shop drawings and fabrication, to ensure fitting of work.

55-4.02B(2) Cable Assemblies

Calculate final length of suspender cable assemblies allowing for tensioning with all fittings, connectors and clamps/swages. The length with a threaded end fitting must be measured to the end of that fitting.

Length of entire stay cable cable system includes the fittings and adjustable socket, measured from center of pin to center of pin, or center of eye to center of eye. must be 1/2 open (i.e. 1/2 of thread length engaged) during installation.

All cables must be marked by a marking line, from one end to the other, to ensure that the cable is not twisted. All cables must have markings for the clamp positions.

The following values must to be calculated and documented when the cable fabrication length calculation is performed:

1. Creep of cable: The creep is the permanent elongation of the cable under load. The creep will only take place after installation. If creep values of the cables are not known, the creep values must be determined by 2 month creeping test.
2. Pre-stretching: To determine the exact elongation under load, pre-stretching must be performed on all cables. The value and number of cycles must be determined by the manufacturer to achieve the required results. The minimum number of cycles allowed is 5. The minimum pre-stretching force allowed is 35% to 45% of the characteristic breaking load, depending on the size/diameter of cable.
3. Elongation under loads: The elongation of the cable system under the loads shown on the plans must be calculated and considered.
4. Temperature: Fabrication temperature of the cable system will be different from the basis temperature in the calculation; the difference has to be considered
5. Elongation and twisting due to clamp pressure: The local elongation due to pressing from clamps must be taken into consideration to avoid corkscrew effects and additional elongation due to the clamps.
7. Tolerances. Maximum length tolerance of the cable system must be within +/- 3/8" under loads specified on the plans.

Castings must be exempt from inadmissible core or surface defects. Casting texture must conform to the requirements of EN 1370 roughness quality level 2 (SCRATA A2 or BNIF-2S1). Unless otherwise specified, discontinuities may be either removed by grinding or welding. Castings must not be repaired unless a procedure equivalent to ASTM A148 with supplementary requirements S1 and S2 is provided.

Prior to galvanizing, the castings must be steel grit blasted to achieve a uniform surface finish. After blasting, fittings must be hot dip galvanized in accordance with EN 1461 or ASTM A153 Class A coating.

All castings must be heat treated, either full annealing, normalizing, normalizing and tempering, or quenching and tempering. Unless specified otherwise, the castings may be heat treated by any of these heat treatments at the option of the manufacturer.

All sockets for the stay cable cables must have line bored pin holes. Pin hole tolerances must be +.020” to -.000” with a 125 ANSI finish.

Material used for infill of speltered sockets for the stay cable cable must be of equal or higher grade as designated “high quality” zinc under ASTM B6.

Threaded rods must conform to EN ISO 683 and delivered bare (with temporary corrosion protection only). Bare threads must be cleaned thoroughly and greased prior to installation. After installation and cable adjustment are complete, bare threads must be degreased, cleaned, and apply 2 layers of approved organic zinc rich primers under section 75-1.05.

All fittings must comply with the tolerances specified in ISO 8062-3, ISO 965-1 and EN 22768-2 or following tolerances: dimensions under 4”: ±1/16”, dimensions over 4” ±1/8”, and pin diameter: +0” to -1/32”. A complete dimensional inspection must be undertaken on the first and all machined areas of each casting lot. All machined, forged or roller components must be subject to a dimensional inspection.

Clean fittings under ASTM A380. Any damage to the zinc or Zn95/Al5 coating must be cleaned and painted under section 75-1.05.

55-4.02C Delivery, Storage, and Handling

Transport, deliver and store components to prevent damage. Cable tension members may be supplied to the site on rings or coilers. An appropriate revolving table must be used for unwinding the rings and an appropriate winding frame for unwinding the coilers. The revolving tables or drums must be fitted with a braking device.

Identify the heat of steel (or each heat if more than one) used for the rod stock used for manufacturing the cable wire with a reference number indicating the name of the supplier and date of production. Attach a copy of the fill report for that heat number to the cable wire.

The following must be observed when unwinding the stay cable cables:

1. Do not twist members.
2. Do not pull over sharp edges.
3. Support members and do not buckle. Bending radius must not be less than R = 15 x rope diameter.
4. Do not damage corrosion protection.

Protect components during handling and installation to prevent damage. Only remove protective materials on rope end fittings immediately prior to installation. Provide suitable enclosures to protect the cables.

Transfer and attach the serial number from the coil to any wire specimen cut from it for testing.

Stay cable cables must be checked thoroughly for any transport damage before installation. Repair damaged galvanized surfaces under section 75-1.05.

55-4.03 CONSTRUCTION

Install the stay cable cable assembly in the sequence and to the loading shown. Any deviation from the plans must be authorized. Refer to manufacturer recommendations for cable installation.

Protect the stay cable cables from abrasion and sharp bending during all stages of erection.

55-4.03A Preparation

Coordinate templates, instructions and directions for installation of stay cable cable anchorages, such as anchor rods which are to be embedded in concrete construction. Install erection rigging system in accordance with manufacturer's product data and shop drawings. Any thread on cable connections must be cleaned thoroughly prior to installation. Damaged or dirty threads must not be assembled because this could lead to the tension member being unfit for use.

55-4.03B Installation

Installation must be carried out in compliance with the installation plan authorized based on the Shop Drawings. Assignment to the correct installation position must be ensured by marking all cable tension members. Cable tension members must not be installed twisted. A surface line must be marked on each cable tension members as a method of control. This line must not be twisted upon completion of elements.

Cable tension members must be pulled into installation position using a suitable hoisting device (e.g. winch) or using a suitable lifting device (e.g. suspension bar, spreading bar). Particular attention must be paid while doing so that there is no damage to the cables. In particular, pay attention that the cables are not buckled while lifting into place with suspension or spreading bars.

Appropriate devices (hydraulic cylinders) must be used for the application of pre-tension force. Rope operating equipment must be kept under supervision and checked at regular intervals. Use all means necessary to protect structural steel before, during, and after installation and to protect the installed work and materials of all other trades.

Utilize a cable vibration expert to perform cable tests at the end of construction to determine cable damping as log decrement. Vibration expert must have expertise in wind and pedestrian excitation of structures and have experience performing structural dynamics measurement and analysis of at least three bridges. Contractor must submit a method statement to the Engineer for review and approval which details the testing to be performed.

Submit test results data provided in tabulated and graphical format. Submit test data in pdf and Microsoft Excel format. Transform all data using a Fast Fourier Transform (FFT) or equivalent method from the time domain to the frequency domain.

Contractor must provide dampers for cables as determined by cable testing. Coordinate damper location with vibration expert and damper manufacturer. Submit shop drawings for proposed dampers and associated calculations to the Engineer for review and approval. Proposed damper system must have a minimum 50-year service life and include cable connections which prevent cable damage during installation and service life.

Notify the Engineer 2 weeks prior to installation of dampers.

Installation must be carried out in compliance with damper manufacturer's recommendations and approved Shop Drawings. Cables must not be twisted due to damper installation. Cables damaged by the Contractor during damper installation will be replaced at the Contractor's expense.

55-4.04 PAYMENT

Not Used

Replace “Reserved” in section 55-5 with:

55-5 Lighting Valance

55-5.01 GENERAL

55-5.01A Summary

Section 55-5 includes specifications for fabricating, furnishing and installing lighting valance for the Avalon Pedestrian Bridge. The lighting valance is comprised of stainless steel, stainless steel fasteners, epoxy grout, and concrete inserts.

55-5.01B Submittals

55-5.01B(1) General

Submit a certificate of compliance for materials used in the work.

55-5.01B(2) Shop Drawings

Submit shop drawings for lighting valance. Shop drawings must include:

1. Fabrication drawings
2. Installation drawings
3. Bolting templates and schedules
4. All stainless steel mounting and connecting hardware

55-5.02 MATERIALS

55-5.02A Delivery, Storage and Handling

Deliver lighting valance components in protective packaging for freight and handling purposes. Handle components to prevent damage, breaking, denting or scoring. Store in a clean and dry place. Protect from dirt, fumes, construction debris and damage.

55-5.02B Materials

Welding must comply with AWS D1.6.

Mounting and connecting hardware, attachments, and fastening components must be stainless steel and comply with section 55-1.

Concrete anchors must comply with section 75-3.02C. Anchors must be stainless steel unless they are not in contact with other stainless steel elements.

55-5.02C Quality Assurance

55-5.02C(1) General

Templates for anchorage must be available for inspection.

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83-5.02 Materials

83-5.02A General

Deliver, store, and handle wood lumber as follows:

1. Store in piles at the job site unless it is to be placed in the structure immediately
2. Stack neatly on dunnage minimum 24” above ground so that it can be readily inspected and with minimum 4” spacers between each bundle
3. Store materials under cover of breathable barrier and protected from sun to prevent warping, weather, and contact with damp or wet surfaces
4. Store and handle such that injury and breakage are avoided

83-5.02B Black Locust Wood

Black Locust wood lumber must:

1. Scientific name of Black Locust is Robinia pseudoacacia.
2. Wood lumber grade must be NHLA FAS.
3. Comply with the requirements shown in the following table:

Quality characteristic	Requirement
Drying Method and Moisture Content (percent)	6-8
Density (lbs/cu ft)	43
Specific Gravity	0.69
Static Bending:	
Modulus of Rupture (psi)	19,400
Modulus of Elasticity (psi)	2,050,000
Work to Maximum Load (Ability to Absorb Shock) (in-lb/cu in)	18.4
Impact Bending:	
Height of 50 lb hammer drop to cause complete failure (in)	57
Compression Parallel to Grain:	
Maximum Crushing Strength (psi)	10,800
Compression Perpendicular to Grain:	
Fiber Stress at Proportional Limit (psi)	1,830
Shear Parallel to Grain:	
Maximum Shearing Strength (psi)	2,480
Tension Perpendicular to the Grain:	
Maximum Tensile Strength (psi)	640
Load Perpendicular to the Grain (lbs)	1,700

83-5.02C Tung Oil

Tung oil must be pure Tung Oil (China wood oil) with no drying additives.

83-5.03 Fabrication

Fabricate decorative cover components at a shop. Fabrication must be performed in conformance with standard shop practices. The completed sections must be assembled in the shop and must be checked for straightness, alignment and dimensions. Take field measurements prior to preparation of final shop drawings and fabrication where required to ensure proper fitting of the work. Decorative cover must conform closely to the horizontal and vertical lines shown on the plans. Each cover must present a smooth, uniform appearance in its final position.

Round all exterior edges of boards to one-eighth inch radius. Sand exterior surfaces of boards with 80 grit sandpaper in the direction of the grain. Clean wood surfaces to remove all loose particles. Thin Tung Oil with two parts mineral spirits to one-part oil. Apply oil mixture to all wood surfaces as follows:

1. Liberally apply oil mixture with natural bristle brush, sponge brush, or thin foam roller.
2. Allow coast to sit a minimum of 40 minutes to soak in. When oil mixture soaks into the wood immediately apply another coat. Continue to apply coats until the surface is saturated and stays glossy. If 80 percent of the area stays glossy, the pores are saturated.
3. Wipe down the surface with clean rag material removing any excess oil on the surface. Do not allow standing oil on the surface overnight.
4. Apply one more coat to the surface and let sit for 40 minutes to a maximum of 2 hours. Wipe down surface to remove excess oil.
5. All oil mixture to cure 10 days before delivery of railing posts to project location.

83-5.04 Construction

Apply thread locking system to nuts and studs and anchor bolts under section 75-3.02B. Isolate galvanized steel elements in close contact with carbon steel with polyethylene tape.

83-5.05 Payment

Not Used

Replace *Reserved* in section 83-6:

83-6 PEDESTRIAN CABLE HANDRAILING

83-6.01 General

83-6.01A Summary

Section 83-6 includes specifications for fabricating and installing the pedestrian handrailing. Handrailing consists of stainless steel posts, horizontal stainless steel rub rail, horizontal stainless steel cables, stainless steel hardware, and miscellaneous steel connection plates and embedded gusset plates.

Miscellaneous steel, stainless steel, hardware, and welding must comply with section 75.

Hot-dip galvanize miscellaneous steel under section 75-1.02B.

83-6.01B Abbreviations

Reserved

83-6.01C Submittals

Submit a certificate of compliance for stainless steel to be shipped. Submit complete shop drawings for each railing assembly. The shop drawings must include the following:

1. Railing layout
2. Material specifications and complete details of the railing, installation hardware, and anchorage components
3. Details on the fabrication and erection of the railing
4. Type and location of all fasteners

The shop drawings must be supplemented with structural calculations for the horizontal cables. Calculations must be signed by a person who is registered as a Civil Engineer in the State. Calculations must be based on elastic method and must include allowable stress analysis for cables and connections.

The horizontal cables must be designed to withstand a horizontal normal load applied to the flexible steel mesh cable of 50 pounds on an area not to exceed 12 inches by 12 inches including openings and space between the rails and located to produce the maximum load effects.

For initial review, submit 5 sets of drawings. Allow 20 days for review.

Prior to fabrication of the production handrailing, fabricate a mock-up of at least two segments, consisting of three posts with the horizontal rail, steel cables, and mesh, delivered to the site to evaluate the quality, fit and finish of the handrailing assembly. Each assembly mock-up must be fabricated and finished using the same materials and methods to be used for the production handrailing. Mock-up shall demonstrate each unique detail related to the railing system including rub rail splices, cable hardware terminations, lighting, and conduit attachments.

If ordered, additional handrailing mock-ups must be furnished until the specified quality, fit, and finish are obtained.

The handrailing mock-up authorized must be used as the standard of comparison in determining the acceptability of the production railing.

All materials used in the handrailing mock-ups must become the property of the Contractor and must be removed and disposed of by the contractor.

83-6.01D Quality Assurance

Reserved

83-6.02 Materials

83-6.02A General

Railing parts must be interchangeable with similar parts, regardless of the source.

Stainless steel components must have number 4 brushed finish.

83-6.02B Components and Hardware

Bridge lighting must be approved prior to submittal of railing shop drawings.

Steel mesh must be by Carl Stahl or approved equal.

83-6.02C Vertical Cables Assemblies

Cable assemblies must be steel wire rope swaged at each end with vandal resistant adjustable forked clevis. The clevis must have a minimum one inch of thread length. All assembly materials must be type 316 stainless steel.

83-6.02D Horizontal Railing, Post Splice Plates and Hardware

Horizontal pipe railing, fin plates, and post splice plates must be type S32205 duplex stainless steel FY = 65 ksi. Stainless steel hardware must be ASTM F593 AH Grade 105 stainless steel.

83-6.02E Rail Post Base Plates

Rail post base plates must have galvanic isolation from anchor bolts and bar reinforcement. Method of galvanic isolation must be provided in railing shop drawings.

83-6.03 Fabrication

Fabricate railing components at a shop. Fabrication must be performed in conformance with standard shop practices. The completed sections must be assembled in the shop and must be checked for straightness, alignment and dimensions. Take field measurements prior to preparation of final shop drawings and fabrication where required to ensure proper fitting of the work. Railing must conform closely to the horizontal and vertical lines shown on the plans. The railing must present a smooth, uniform appearance in its final position. Railing posts must be fully assembled prior to delivery to the job site.

83-6.04 Construction

The railings must be carefully erected true to line and grade. Posts and cables must be vertical within a tolerance not to exceed 0.02-foot in 10 feet. Adjacent rail sections must align with each other within 1/16 inch. Prior to rail installation, inspect the posts for correct alignment and conditions for proper attachment and support of the rails.

Apply thread locking system to nuts and studs and anchor bolts under section 75-3.02B.

83-6.05 Payment

Not Used

^^^

Add to section 90-1.02H:

Concrete at pile caps is in a corrosive environment.

^^^

EXHIBIT A - AFFIRMATIVE ACTION PROGRAM PROVISIONS

Sec. 10.8.4 Affirmative Action Program Provisions.

Every non-construction and construction Contract with, or on behalf of, the City of Los Angeles for which the consideration is $25,000 or more shall contain the following provisions which shall be designated as the AFFIRMATIVE ACTION PROGRAM provisions of such Contract:

A. During the performance of a City Contract, the Contractor certifies and represents that the Contractor and each Subcontractor hereunder will adhere to an Affirmative Action Program to ensure that in its employment practices, persons are employed and employees are treated equally and without regard to or because of race, color, religion, national origin, ancestry, sex, sexual orientation, age, disability, marital status, domestic partner status or medical condition.

1. This section applies to work or services performed or materials manufactured or assembled in the United States.

2. Nothing in this section shall require or prohibit the establishment of new classifications of employees in any given craft, work or service category.

3. The Contractor shall post a copy of Paragraph A., hereof, in conspicuous places at its place of business available to employees and applicants for employment.

B. The Contractor shall, in all solicitations or advertisements for employees placed, by or on behalf of, the Contractor, state that all qualified applicants will receive consideration for employment without regard to their race, color, religion, national origin, ancestry, sex, sexual orientation, age, disability, marital status, domestic partner status or medical condition.

C. At the request of the Awarding Authority or the DAA, the Contractor shall certify on an electronic or hard copy form to be supplied, that the Contractor has not discriminated in the performance of City Contracts against any employee or applicant for employment on the basis or because of race, color, religion, national origin, ancestry, sex, sexual orientation, age, disability, marital status, domestic partner status or medical condition.

D. The Contractor shall permit access to, and may be required to provide certified copies of, all of its records pertaining to employment and to its employment practices by the Awarding Authority or the DAA for the purpose of investigation to ascertain compliance with the Affirmative Action Program provisions of City Contracts and, upon request, to provide evidence that it has or will comply therewith.

E. The failure of any Contractor to comply with the Affirmative Action Program provisions of City Contracts may be deemed to be a material breach of a City Contract. The failure shall only be established upon a finding to that effect by the Awarding Authority, on the basis of its own investigation or that of the DAA. No finding shall be made except upon a full and fair hearing after notice and an opportunity to be heard has been given to the Contractor.

F. Upon a finding duly made that the Contractor has breached the Affirmative Action Program provisions of a City Contract, the Contract may be forthwith cancelled, terminated or suspended, in whole or in part, by the Awarding Authority, and all monies due or to become due hereunder may be forwarded to and retained by the City of Los Angeles. In addition thereto, the breach may be the basis for a determination by the Awarding Authority or the Board of Public Works that the Contractor is a non-responsible bidder or proposer pursuant to the provisions of Section 10.40 of this Code. In the event of such determination, the Contractor shall be disqualified from being awarded a contract with the City of Los Angeles for a period of two years, or until he or she shall establish and carry out a program in conformance with the provisions hereof.

G. In the event of a finding by the Fair Employment and Housing Commission of the State of California, or the Board of Public Works of the City of Los Angeles, or any court of competent

jurisdiction, that the Contractor has been guilty of a willful violation of the California Fair Employment and Housing Act, or the Affirmative Action Program provisions of a City Contract, there may be deducted from the amount payable to the Contractor by the City of Los Angeles under the contract, a penalty of ten dollars for each person for each calendar day on which the person was discriminated against in violation of the provisions of a City Contract.

H. Notwithstanding any other provisions of a City Contract, the City of Los Angeles shall have any and all other remedies at law or in equity for any breach hereof.

I. The Public Works Board of Commissioners shall promulgate rules and regulations through the DAA and provide to the Awarding Authorities electronic and hard copy forms for the implementation of the Affirmative Action Program provisions of City contracts, and rules and regulations and forms shall, so far as practicable, be similar to those adopted in applicable Federal Executive Orders. No other rules, regulations or forms may be used by an Awarding Authority of the City to accomplish this contract compliance program.

J. Nothing contained in City Contracts shall be construed in any manner so as to require or permit any act which is prohibited by law.

K. By affixing its signature to a Contract that is subject to this article, the Contractor shall agree to adhere to the provisions in this article for the duration of the Contract. The Awarding Authority may also require Contractors and suppliers to take part in a pre-registration, pre-bid, pre-proposal, or pre-award conference in order to develop, improve or implement a qualifying Affirmative Action Program.

1. The Contractor certifies and agrees to immediately implement good faith effort measures to recruit and employ minority, women and other potential employees in a non-discriminatory manner including, but not limited to, the following actions as appropriate and available to the Contractor's field of work. The Contractor shall:

(a) Recruit and make efforts to obtain employees through:

(i) Advertising employment opportunities in minority and other community news media or other publications.

(ii) Notifying minority, women and other community organizations of employment opportunities.

(iii) Maintaining contact with schools with diverse populations of students to notify them of employment opportunities.

(iv) Encouraging existing employees, including minorities and women, to refer their friends and relatives.

(v) Promoting after school and vacation employment opportunities for minority, women and other youth.

(vi) Validating all job specifications, selection requirements, tests, etc.

(vii) Maintaining a file of the names and addresses of each worker referred to the Contractor and what action was taken concerning the worker.

(viii) Notifying the appropriate Awarding Authority and the DAA in writing when a union, with whom the Contractor has a collective bargaining agreement, has failed to refer a minority, woman or other worker.

(b) Continually evaluate personnel practices to assure that hiring, upgrading, promotions, transfers, demotions and layoffs are made in a non-discriminatory manner so as to achieve and maintain a diverse work force.

(c) Utilize training programs and assist minority, women and other employees in locating, qualifying for and engaging in the training programs to enhance their skills and advancement.

(d) Secure cooperation or compliance from the labor referral agency to the Contractor's contractual Affirmative Action Program obligations.

(e) Establish a person at the management level of the Contractor to be the Equal Employment Practices officer. Such individual shall have the authority to disseminate and enforce the Contractor's Equal Employment and Affirmative Action Program policies.

(f) Maintain records as are necessary to determine compliance with Equal Employment Practices and Affirmative Action Program obligations and make the records available to City, State and Federal authorities upon request.

(g) Establish written company policies, rules and procedures which shall be encompassed in a company-wide Affirmative Action Program for all its operations and Contracts. The policies shall be provided to all employees, Subcontractors, vendors, unions and all others with whom the Contractor may become involved in fulfilling any of its Contracts.

(h) Document its good faith efforts to correct any deficiencies when problems are experienced by the Contractor in complying with its obligations pursuant to this article. The Contractor shall state:

(i) What steps were taken, how and on what date.

(ii) To whom those efforts were directed.

(iii) The responses received, from whom and when.

(iv) What other steps were taken or will be taken to comply and when.

(v) Why the Contractor has been or will be unable to comply.

2. Every contract of $25,000 or more which may provide construction, demolition, renovation, conservation or major maintenance of any kind shall also comply with the requirements of Section 10.13 of the Los Angeles Administrative Code.

L. The Affirmative Action Program required to be submitted hereunder and the pre-registration, pre-bid, pre-proposal or pre-award conference which may be required by the Awarding Authority shall, without limitation as to the subject or nature of employment activity, be concerned with such employment practices as:

1. Apprenticeship where approved programs are functioning, and other on-the-job training for non-apprenticeable occupations;

2. Classroom preparation for the job when not apprenticeable;

3. Pre-apprenticeship education and preparation;

4. Upgrading training and opportunities;

5. Encouraging the use of Contractors, Subcontractors and suppliers of all racial and ethnic groups; provided, however, that any contract subject to this ordinance shall require the Contractor, Subcontractor or supplier to provide not less than the prevailing wage, working conditions and practices generally observed in private industries in the Contractor's, Subcontractor's or supplier's geographical area for such work;

6. The entry of qualified women, minority and all other journeymen into the industry; and

7. The provision of needed supplies or job conditions to permit persons with disabilities to be employed, and minimize the impact of any disability.

M. Any adjustments which may be made in the Contractor's work force to achieve the requirements of the City's Affirmative Action Program in purchasing and construction shall be accomplished by either an increase in the size of the work force or replacement of those employees

who leave the work force by reason of resignation, retirement or death and not by termination, layoff, demotion or change in grade.

N. This ordinance shall not confer upon the City of Los Angeles or any Agency, Board or Commission thereof any power not otherwise provided by law to determine the legality of any existing collective bargaining agreement and shall have application only to discriminatory employment practices by Contractors engaged in the performance of City Contracts.

O. All Contractors subject to the provisions of this article shall include a similar provision in all subcontracts awarded for work to be performed under the Contract with the City and shall impose the same obligations including, but not limited to, filing and reporting obligations, on the Subcontractors as are applicable to the Contractor. Failure of the Contractor to comply with this requirement or to obtain the compliance of its Subcontractors with all such obligations shall subject the Contractor to the imposition of any and all sanctions allowed by law, including, but not limited to, termination of the Contractor's Contract with the City.

EXHIBIT B

SMALL/VERY SMALL BUSINESS ENTERPRISE PROGRAM

The Harbor Department is committed to creating an environment that provides all individuals and businesses open access to the business opportunities available at the Harbor Department in a manner that reflects the diversity of the City of Los Angeles. The Harbor Department's Small Business Enterprise (SBE) Program was created to provide additional opportunities for small businesses to participate in professional service and construction contracts. An overall Department goal of 25% SBE participation, including 5% Very Small Business Enterprise (VSBE) participation, has been established for the Program. The specific goal or requirement for each contract opportunity may be higher or lower based on the scope of work.

It is the policy of the Harbor Department to solicit participation in the performance of all service contracts by all individuals and businesses, including, but not limited to, SBEs, VSBEs, women-owned business enterprises (WBEs), minority-owned business enterprises (MBEs), and disabled veteran business enterprises (DVBEs). The SBE Program allows the Harbor Department to target small business participation, including MBEs, WBEs, and DVBEs, more effectively. It is the intent of the Harbor Department to make it easier for small businesses to participate in contracts by providing education and assistance on how to do business with the City, and ensuring that payments to small businesses are processed in a timely manner. **In order to ensure the highest participation of SBE/VSBE/MBE/WBE/DVBEs, all proposers shall utilize the City's contracts management and opportunities database, the Regional Alliance Marketplace for Procurement (RAMP), at http://www.RAMPLA.org, to outreach to potential subconsultants.**

The Harbor Department defines a SBE as an independently owned and operated business that is not dominant in its field and meets criteria set forth by the Small Business Administration in Title 13, Code of Federal Regulations, Part 121. Go to www.sba.gov for more information. The Harbor Department defines a VSBE based on the State of California's Micro-business definition which is (1) a small business that has average annual gross receipts of $5,000,000 or less within the previous three years, or (2) a small business manufacturer with 25 or fewer employees.

The SBE Program is a results-oriented program, requiring consultants who receive contracts from the Harbor Department to perform outreach and utilize certified small businesses. **Based on the work to be performed, it has been determined that the percentage of small business participation will be 25%, including 5% VSBE participation**. The North American Industry Classification System (NAICS) Code for the scope of services is 237310. This NAICS Code is the industry code that corresponds to at least 51% of the scope of services and will be used to determine the size standard for SBE participation of the Prime Consultant. The maximum SBE size standard for this NAICS Code is $45 million.

Consultant shall be responsible for determining the SBE status of its subconsultants for purposes of meeting the small business requirement. Subconsultants must qualify as an SBE based on the type of services that they will be performing under the Agreement. All business participation will be determined by the percentage of the total amount of compensation under the agreement paid to SBEs. The Consultant shall not substitute an SBE firm without obtaining prior approval of the City. A request for substitution must be based upon demonstrated good cause. If substitution is permitted, Consultant shall endeavor to make an in-kind substitution for the substituted SBE.

Consultant shall complete, sign and submit as part of the executed agreement the attached Affidavit and Consultant Description Form. The Affidavit and Consultant Description Form, when signed, will signify the Consultant's intent to comply with the SBE requirement. All SBE/VSBE firms must be certified by the time proposals are due to receive credit. In addition all consultants and subconsultants must be registered on the RAMP by the time proposals are due.

AFFIDAVIT OF COMPANY STATUS

"The undersigned declares under penalty of perjury pursuant to the laws of the State of California that the following information and information contained on **the attached Consultant Description Form** is true and correct and includes all material information necessary to identify and explain the operations of

_____

Name of Firm

as well as the ownership and location thereof. Further, the undersigned agrees to provide complete and accurate information regarding ownership in the named firm, and all of its domestic and foreign affiliates, any proposed changes of the ownership and to permit the audit and examination of firm ownership documents, and the ownership documents of all of its domestic and foreign affiliates, in association with this agreement."

(1) **Small/Very Small Business Enterprise Program:** Please indicate the ownership of your company. Please check all that apply. At least one box must be checked:

☐SBE ☐VSBE ☐MBE ☐WBE ☐DVBE ☐OBE

- A Small Business Enterprise (SBE) is an independently owned and operated business that is not dominant in its field and meets criteria set forth by the Small Business Administration in Title 13, Code of Federal Regulations, Part 121.
- A Very Small Business Enterprise (VSBE) is 1) a small business that has average annual gross receipts of $5,000,000 or less within the previous three years, or (2) a small business manufacturer with 25 or fewer employees.
- A Minority Business Enterprise (MBE) is defined as a business in which a minority owns and controls at least 51% of the business. A Woman Business (WBE) is defined as a business in which a woman owns and controls at least 51% of the business. For the purpose of this project, a minority includes:
  (1) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
  (2) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
  (3) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, The Indian Subcontinent, or the Pacific Islands); and
  (4) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
- A Disabled Veteran Business Enterprise (DVBE) is defined as a business in which a disabled veteran owns at least 51% of the business, and the daily business operations are managed and controlled by one or more disabled veterans.
- An OBE (Other Business Enterprise) is any enterprise that is neither an SBE, VSBE, MBE, WBE, or DVBE.

(2) **Local Business Preference Program:** Please indicate the Local Business Enterprise status of your company. Only one box must be checked:

☐LBE ☐Non-LBE

- A Local Business Enterprise (LBE) is: (a) a business headquartered within Los Angeles, Orange, Riverside, San Bernardino, or Ventura Counties; or (b) a business that has at least 50 full-time employees, or 25 full-time employees for specialty marine contracting firms, working in Los Angeles, Orange, Riverside, San Bernardino, or Ventura Counties. "Headquartered" shall mean that the business physically conducts and manages all of its operations from a location in the above-named counties.
- A Non-LBE is any business that does not meet the definition of a LBE.

Signature:_____ Title: _____

Printed Name:_____ Date Signed:_____

Consultant Description Form

PRIME CONSULTANT:

Contract Title: _____

Business Name: _____ RAMP ID#: _____

Award Total: $ _____

Owner's Ethnicity: _____ Gender _____Group: SBE VSBE MBE WBE DVBE OBE (Circle all that apply)

Local Business Enterprise: YES_____ NO_____ (Check only one)

Primary NAICS Code: _____

Address: _____

City/State/Zip: _____

County: _____

Telephone: ( ) _____ FAX: ( ) _____

Contact Person/Title: _____

Email Address: _____

SUBCONSULTANT:

Business Name: _____ RAMP ID#: _____

Award Total: (% or $): _____

Services to be provided: _____

Owner's Ethnicity: _____ Gender _____ Group: SBE VSBE MBE WBE DVBE OBE (Circle all that apply)

Local Business Enterprise: YES_____ NO_____ (Check only one)

Primary NAICS Code: _____

Address: _____

City/State/Zip: _____

County: _____

Telephone: ( ) _____ FAX: ( ) _____

Contact Person/Title: _____

Email Address: _____

SUBCONSULTANT:

Business Name: _____ RAMP ID#: _____

Award Total: (% or $): _____

Services to be provided: _____

Owner's Ethnicity: _____ Gender _____ Group: SBE VSBE MBE WBE DVBE OBE (Circle all that apply)

Local Business Enterprise: YES_____ NO_____ (Check only one)

Primary NAICS Code: _____

Address: _____

City/State/Zip: _____

County: _____

Telephone: ( ) _____ FAX: ( ) _____

Contact Person/Title: _____

Email address: _____

Consultant Description Form

SUBCONSULTANT:

Business Name: _____ RAMP ID#: _____

Award Total: (% or $): _____

Services to be provided: _____

Owner's Ethnicity: _____ Gender _____ Group: SBE VSBE MBE WBE DVBE OBE (Circle all that apply)

Local Business Enterprise: YES_____ NO_____ (Check only one)

Primary NAICS Code: _____

Address: _____

City/State/Zip: _____

County: _____

Telephone: ( ) _____ FAX: ( ) _____

Contact Person/Title: _____

Email Address: _____

SUBCONSULTANT:

Business Name: _____ RAMP ID#: _____

Award Total: (% or $): _____

Services to be provided: _____

Owner's Ethnicity: _____ Gender _____ Group: SBE VSBE MBE WBE DVBE OBE (Circle all that apply)

Local Business Enterprise: YES_____ NO_____ (Check only one)

Primary NAICS Code: _____

Address: _____

City/State/Zip: _____

County: _____

Telephone: ( ) _____ FAX: ( ) _____

Contact Person/Title: _____

Email Address: _____

SUBCONSULTANT:

Business Name: _____ RAMP ID#: _____

Award Total: (% or $): _____

Services to be provided: _____

Owner's Ethnicity: _____ Gender _____ Group: SBE VSBE MBE WBE DVBE OBE (Circle all that apply)

Local Business Enterprise: YES_____ NO_____ (Check only one)

Primary NAICS Code: _____

Address: _____

City/State/Zip: _____

County: _____

Telephone: ( ) _____ FAX: ( ) _____

Contact Person/Title: _____

Email address: _____

EXHIBIT C
PROPRIETARY SMALL BUSINESS ENTERPRISE (SBE)

ROADMAP FOR APPLICANTS

Should I apply?

If your firm is currently certified with any of the following agencies, you do NOT need to submit the SBE (Proprietary) Application:

- Federal Small Business Administration (SBA) - 8(a) Business Development Program
- State of California Department of General Services (DGS) – Small Business (SB),Micro Business (MB) and Public Works (PW)
- California Department of Transportation (CALTRANS)- Small Minority/Women Business Enterprise (SMBE/SWBE)
- L.A. County Metropolitan Transportation Authority (METRO) – Small Business Enterprise (SBE)
- US Women's Chamber of Commerce (USWCC) - Women-Owned Small Business (WOSB) & Economically Disadvantaged Women-owned Business (EDWOSB)
- National Women Business Owners Corporation (NWBOC) - Women-Owned Small Business (WOSB) & Economically Disadvantaged Women-owned Business (EDWOSB)
- Women's Business Enterprise Council WEST (WBEC - West) - Women-Owned Small Business (WOSB)
- City of Los Angeles – Local Small Business (LSB)
- Los Angeles County – Local Small Business Enterprise (LSBE)
- California Unified Certification Program (CUCP) – Disadvantaged Business Enterprise (DBE)

  CUCP Agencies include:
  - California Department of Transportation (CALTRANS)
  - Central Contra Costa Transit Authority (CCCTA)
  - L.A. County Metropolitan Transportation Authority (METRO)
  - San Francisco Bay Area Rapid Transit District (BART)
  - San Francisco Municipal Transportation Agency (SFMTA)
  - Santa Clara Valley Transportation Authority (VTA)
  - City of Fresno
  - City of Los Angeles
  - San Diego County Regional Airport Authority (SAN)
  - San Francisco International Airport (SFO)
  - San Mateo County Transit District (SAMTRANS)

If you are certified by one of the agencies listed above you may add SBE (Proprietary) to your RAMP profile for verification or check the Bid/Proposal documents for the Department's instruction regarding verification of certification.

If your firm is not currently certified with one of the above agencies, answer these questions:

- Is your firm an independently-owned and operated business?
- Is your firm a small business that meets the size criteria set forth by the Small Business Administration 8(a) Business Development Program **or** the State of California DGS Small Business Program?
- Is your firm organized as a for-profit business?

If you answered "Yes" to all of the questions above, you may be eligible to be certified as an SBE (Proprietary)

Complete the attached application and include all of the required documents listed on the checklist of SUPPORTING DOCUMENTATION at the end of this form.

Send completed application to:

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
Bureau of Contract Administration
Office of Contract Compliance – Centralized Certification Administration
1149 S. Broadway, Ste. 300
Los Angeles, CA 90015

For Assistance:

Email bca.certifications@lacity.org or Call (213) 847-2684

Where can I find more information?

- State of California SBE program - http://www.dgs.ca.gov/pd/Programs/OSDS/GetCertified.aspx
- Small Business Administration 8(a) Business Development, WOSB, and EDWOSB Programs: http://www.sba.gov
- SBA Size Standards www.sba.gov/sites/default/files/Size_Standards_Table.pdf
- NAICS Search https://www.census.gov/naics/?99967
- LAWA SBE Program Rules and Regulations – http://www.lawa.org/welcome_LAWA.aspx?id=6413
- Port of Los Angeles Small Business Enterprise (SBE) and VSBE Program information- https://www.portoflosangeles.org/business/sbp.asp
- DWP SBE Program Information – https://www.ladwp.com/ladwp/faces/ladwp/partners/p-vendorsandbidders/p-vb-sbedvbe?_adf.ctrl-state=bfw1rfro4_4&_afrLoop=78220979903629

EXHIBIT C
PROPRIETARY SMALL BUSINESS ENTERPRISE (SBE)

Please answer the following:

Which Department referred you to the Office of Contract Compliance for Proprietary SBE Certification? (You must check only one box)

- ☐ **Department of Water and Power**
- ☐ **Harbor Department**
- ☐ **Los Angeles World Airports**

Are you currently bidding or participating on a City Project?

☐ **NO** ☐ **YES**

If yes, please provide the following information:

Project Name:_____

BAVN ID#:_____

Bid/RFP Number:_____

Due Date:_____

EXHIBIT C
PROPRIETARY SMALL BUSINESS ENTERPRISE (SBE)

I. GENERAL INFORMATION

HAS YOUR FIRM BEEN CERTIFIED BY ANOTHER CERTIFYING AGENCY? ☐ YES ☐ NO

IF YES, WHICH AGENCY & CERTIFICATION (e.g. SBE, MBE, WBE, DBE, etc.):	HAS FIRM EVER BEEN DENIED CERTIFICATION? ☐YES ☐NO IF YES, WHICH AGENCY & DATE:		
LEGAL BUSINESS NAME	FICTITIOUS OR DOING BUSINESS AS (DBA) NAME(S):		
STREET ADDRESS OF PRINCIPAL OFFICE LOCATION (DO NOT USE PO BOX)	CITY	STATE	ZIP
MAILING ADDRESS (IF DIFFERENT)	CITY	STATE	ZIP

FEDERAL EMPLOYER ID NUMBER (FEIN)	DATE FIRM ESTABLISHED:	WEBPAGE ADDRESS:
PRIMARY POINT OF CONTACT: (NAME & TITLE)	PHONE NUMBER:	FAX NUMBER:
	OTHER PHONE NUMBER:	EMAIL ADDRESS:

ADDRESSES OF OTHER LOCATIONS, FACILITIES, STORAGE SPACES, ETC. (ATTACH ADDITIONAL PAGES IF NECESSARY)

DESCRIPTION (e.g. STORAGE, FIELD OFFICE, FACTORY)	CITY	STATE	ZIP
DESCRIPTION (e.g. STORAGE, FIELD OFFICE, FACTORY)	CITY	STATE	ZIP

METHOD OF ACQUISITION: ☐ STARTED NEW BUSINESS ☐ PURCHASED EXISTING BUSINESS ☐ INHERITED BUSINESS

OTHER (EXPLAIN): _____

BUSINESS STRUCTURE: ☐ SOLE PROPRIETORSHIP ☐ PARTNERSHIP ☐ CORPORATION ☐ LLC ☐ JOINT VENTURE

TYPE OF BUSINESS: ☐ CONSTRUCTION ☐ MANUFACTURING ☐ SERVICE/CONSULTING ☐ WHOLESALER/RETAILER

☐ DISTRIBUTOR/BROKER ☐ CONCESSION ☐ TRUCKER ☐ OTHER _____

IF TYPE OF BUSINESS IS CONSTRUCTION, PROVIDE:

CONTRACTOR'S LICENSE NUMBER:	LICENSE CLASSIFICATION CODE(S) :

ENTER FIRM'S AVERAGE NUMBER OF EMPLOYEES FOR THE LAST FOUR QUARTERS INCLUDING ALL EMPLOYEES THAT ARE IN CALIFORNIA, OUT OF STATE, AND/OR OUT OF THE COUNTRY. (IF IN BUSINESS LESS THAN A YEAR, AVERAGE THE NUMBER OF EMPLOYEES OVER THE NUMBER OF QUARTERS THAT YOU HAVE BEEN IN BUSINESS)	NUMBER OF EMPLOYEES:

NUMBER OF: OWNERS _____ OFFICERS _____ DIRECTORS_____

HAS FIRM EVER EXISTED UNDER DIFFERENT OWNERSHIP? ☐ YES ☐ NO

IF YES, PROVIDE PREVIOUS OWNERSHIP, BUSINESS STRUCTURE, DATE THE CHANGE OCCURRED, AND BRIEF EXPLANATION OF CHANGE:

EXHIBIT C
PROPRIETARY SMALL BUSINESS ENTERPRISE (SBE)

II. OWNERSHIP (ATTACH ADDITIONAL PAGES IF NECESSARY)			
NAME OF INDIVIDUAL OWNER(S) SHAREHOLDER(S) AND/OR CORPORATE OFFICERS	TITLE	% OWNERSHIP	HOME ADDRESS (STREET, CITY, STATE, ZIP)

III. AFFILIATE BUSINESS RELATIONSHIP(S) - DO NOT LEAVE BLANK OR ENTER N/A		
DURING THE PREVIOUS THREE (3) TAX YEARS DID ANY OWNER/OFFICER:	YES	NO
1. HAVE OWNERSHIP INTEREST IN ANOTHER BUSINESS?	☐	☐
2. SHARE OR HAVE COMMON MANAGEMENT WITH ANOTHER BUSINESS?	☐	☐
3. SHARE OR HAVE COMMON OWNERS WITH ANOTHER BUSINESS?	☐	☐
4. HAVE A FAMILY MEMBER(S) ENGAGED IN A SIMILAR BUSINESS ACTIVITY?	☐	☐
5. HAVE A FINANCIAL RELATIONSHIP WITH ANOTHER BUSINESS CONSISTING OF A LOAN AND/OR ASSISTANCE BOND, SECURITY, OR CREDIT REQUIREMENTS?	☐	☐
6. HAVE A LONG-TERM OR PERMANENT CONTRACTUAL RELATIONSHIP WITH ANOTHER BUSINESS?	☐	☐
7. SHARE FACILITIES, EQUIPMENT, OR SYSTEMS WITH ANOTHER BUSINESS?	☐	☐
8. SHARE EMPLOYEES WITH ANOTHER BUSINESS?	☐	☐

IF YOU ANSWERED YES TO ANY OF THE ABOVE, PROVIDE THE FOLLOWING INFORMATION FOR EACH BUSINESS THAT APPLIES TO EACH "YES" RESPONSE (ATTACH ADDITIONAL PAGES IF NECESSARY)

1)OWNER/OFFICER NAME	2)OWNER/OFFICER NAME	3)OWNER/OFFICER NAME
BUSINESS NAME	BUSINESS NAME	BUSINESS NAME
BUSINESS ADDRESS	BUSINESS ADDRESS	BUSINESS ADDRESS
NATURE OF BUSINESS	NATURE OF BUSINESS	NATURE OF BUSINESS
NATURE OF RELATIONSHIP W/ APPLICANT FIRM	NATURE OF RELATIONSHIP W/ APPLICANT FIRM	NATURE OF RELATIONSHIP W/ APPLICANT FIRM

IV. BUSINESS CLASSIFICATION

PROVIDE A DESCRIPTION OF YOUR BUSINESS AND/OR INDIVIDUAL KEYWORDS WHICH BEST DESCRIBE YOUR BUSINESS SERVICES:
USE THE NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS) TO IDENTIFY THE FIRM'S AREA(S) OF SPECIALTY.
THE PRIMARY NAICS REPRESENTS THE FIRM'S LARGEST SOURCE OF REVENUE FOR THE MOST RECENTLY COMPLETED FISCAL YEAR. ENTER UP TO 5 CODES.
FOR A FULL LIST OF NAICS CODES AND ASSISTANCE IN LOCATING APPROPRIATE CODES PLEASE VISIT: HTTP://WWW.NAICS.COM/SEARCH.HTM

6 DIGIT NAICS CODE & DESCRIPTION:	% OF THE FIRM'S REVENUES EARNED IN THIS NAICS DURING PAST 12 MONTHS:
1)	
2)	
3)	
4)	
5)	

EXHIBIT C
PROPRIETARY SMALL BUSINESS ENTERPRISE (SBE)

PENALTY OF PERJURY DECLARATION

The undersigned states:

I certify under penalty of perjury under the laws of the City of Los Angeles and the State of California that all information submitted in the Small Business Enterprise application, and any additional information to determine eligibility is true and correct.

Authorized Signature | Title

Print Name | Date

SUPPORTING DOCUMENTATION CHECKLIST
SUBMIT REQUIRED DOCUMENTATION FOR ALL CATEGORIES BELOW THAT APPLY TO YOUR BUSINESS.

PLEASE DO NOT BIND YOUR SUBMITTAL

ALL APPLICANTS

- ☐ Most recently entire filed Federal Individual Income Tax Return (Form 1040) for **each owner** including all schedules and statements.
- ☐ Entire filed Federal Income Tax Return (Form 1040, 1220, 1120S or 1065) for the applicant business **and** each affiliate business for the most recent three (3) years or for the years the firm or its affiliate(s) were in business.
- ☐ If the firm's business classification identified by the selected NAICS codes requires a professional license or permit in order to operate, include a copy of the current license or permit (e.g. Architect, Engineer, Contractor, Broker/Agent, Lawyer, Security, etc.)
- ☐ If the size standard for the selected NAICS codes is number of employees- provide the Quarterly Contribution returns and report of wages (Form DE 9C) for the applicant business and each affiliate business for the four (4) most recent completed quarters. Submit a copy of out of state and/or out of country equivalent to form DE 9C, if applicable.

SOLE PROPRIETORSHIP

- ☐ Fictitious Business Name Statement

PARTNERSHIP

- ☐ Partnership Agreement and Amendments

CORPORATION

- ☐ Articles of Incorporation *(signed by the state official with approval date)*
- ☐ Corporate Meeting minutes for the past two (2) years listing current elected corporate officers and directors; or statement of information as filed with CA Secretary of State

LLC

- ☐ Articles of Organization, as filed with State
- ☐ LLC Statement of Information
- ☐ Operating Agreement and Amendments

JOINT VENTURE

- ☐ Joint Venture Agreement and Amendments

TRUCKING COMPANY

- ☐ Title(s) and registration certificate(s) for each truck owned and/or operated by your business
- ☐ Current Motor Carrier Permit

Exhibit D - Business Tax Registration Certificate (BTRC) Number

The City of Los Angeles, Office of Finance requires all firms that engage in any business activity within the City of Los Angeles to pay City business taxes. Each firm or individual (other than a municipal employee) is required to obtain the necessary Business Tax Registration Certification (BTRC) and pay business tax. (Los Angeles Municipal code Section 21.09 et seq.)

All firms and individuals that do business with the City of Los Angeles will be required to provide a BTRC number or an exemption number as proof of compliance with Los Angeles City business tax requirements in order to receive payment for goods or services. Beginning October 14, 1987, payments for goods or services will be withheld unless proof of tax compliance is provided to the City.

The Tax and Permit Division of Los Angeles Office of Finance, has the sole authority to determine whether a firm is covered by business tax requirements. Those firms not required to pay will be given an exemption number.

If you do NOT have a BTRC number contact the Tax and Permit Division at the office listed below, or log on to http://finance.lacity.org/, to download the business tax registration application.

MAIN OFFICE

LA City Hall	201 N. Main Street, Rm. 101	(844) 663-4411

Exhibit E- Equal Benefits Ordinance

Sec. 10.8.2.1. Equal Benefits Ordinance.

Discrimination in the provision of employee benefits between employees with domestic partners and employees with spouses results in unequal pay for equal work. Los Angeles law prohibits entities doing business with the City from discriminating in employment practices based on marital status and/or sexual orientation. The City's departments and contracting agents are required to place in all City contracts a provision that the company choosing to do business with the City agrees to comply with the City's nondiscrimination laws.

It is the City's intent, through the contracting practices outlined in this Ordinance, to assure that those companies wanting to do business with the City will equalize the total compensation between similarly situated employees with spouses and with domestic partners. The provisions of this Ordinance are designed to ensure that the City's contractors will maintain a competitive advantage in recruiting and retaining capable employees, thereby improving the quality of the goods and services the City and its people receive, and ensuring protection of the City's property.

(c) Equal Benefits Requirements.

(1) No Awarding Authority of the City shall execute or amend any Contract with any Contractor that discriminates in the provision of Benefits between employees with spouses and employees with Domestic Partners, between spouses of employees and Domestic Partners of employees, and between dependents and family members of spouses and dependents and family members of Domestic Partners.

(2) A Contractor must permit access to, and upon request, must provide certified copies of all of its records pertaining to its Benefits policies and its employment policies and practices to the DAA, for the purpose of investigation or to ascertain compliance with the Equal Benefits Ordinance.

(3) A Contractor must post a copy of the following statement in conspicuous places at its place of business available to employees and applicants for employment: "During the performance of a Contract with the City of Los Angeles, the Contractor will provide equal benefits to its employees with spouses and its employees with domestic partners." The posted statement must also include a City contact telephone number which will be provided each Contractor when the Contract is executed.

(4) A Contractor must not set up or use its contracting entity for the purpose of evading the requirements imposed by the Equal Benefits Ordinance.

(d) Other Options for Compliance. Provided that the Contractor does not discriminate in the provision of Benefits, a Contractor may also comply with the Equal Benefits Ordinance in the following ways:

(1) A Contractor may provide an employee with the Cash Equivalent only if the DAA determines that either:

a. The Contractor has made a reasonable, yet unsuccessful effort to provide Equal Benefits; or

b. Under the circumstances, it would be unreasonable to require the Contractor to provide Benefits to the Domestic Partner (or spouse, if applicable).

(2) Allow each employee to designate a legally domiciled member of the employee's household as being eligible for spousal equivalent Benefits.

(3) Provide Benefits neither to employees' spouses nor to employees' Domestic Partners.

(e) Applicability.

(1)Unless otherwise exempt, a Contractor is subject to and shall comply with all applicable provisions of the Equal Benefits Ordinance.

(2) The requirements of the Equal Benefits Ordinance shall apply to a Contractor's operations as follows:

a. A Contractor's operations located within the City limits, regardless of whether there are employees at those locations performing work on the Contract.

b. A Contractor's operations on real property located outside of the City limits if the property is owned by the City or the City has a right to occupy the property, and if the Contractor's presence at or on that property is connected to a Contract with the City.

c. The Contractor's employees located elsewhere in the United States but outside of the City limits if those employees are performing work on the City Contract.

(3) The requirements of the Equal Benefits Ordinance do not apply to collective bargaining agreements ("CBA") in effect prior to January 1, 2000. The Contractor must agree to propose to its union that the requirements of the Equal Benefits Ordinance be incorporated into its CBA upon amendment, extension, or other modification of a CBA occurring after January 1, 2000.

(f) Mandatory Contract Provisions Pertaining to Equal Benefits. Unless otherwise exempted, every Contract shall contain language that obligates the Contractor to comply with the applicable provisions of the Equal Benefits Ordinance. The language shall include provisions for the following:

(1) During the performance of the Contract, the Contractor certifies and represents that the Contractor will comply with the Equal Benefits Ordinance.

(2) The failure of the Contractor to comply with the Equal Benefits Ordinance will be deemed to be a material breach of the Contract by the Awarding Authority.

(3) If the Contractor fails to comply with the Equal Benefits Ordinance the Awarding Authority may cancel, terminate or suspend the Contract, in whole or in part, and all monies due or to become due under the Contract may be retained by the City. The City may also pursue any and all other remedies at law or in equity for any breach.

(4) Failure to comply with the Equal Benefits Ordinance may be used as evidence against the Contractor in actions taken pursuant to the provisions of Los Angeles Administrative Code Section 10.40, et seq., Contractor Responsibility Ordinance.

(5) If the DAA determines that a Contractor has set up or used its Contracting entity for the purpose of evading the intent of the Equal Benefits Ordinance, the Awarding Authority may terminate the Contract on behalf of the City. Violation of this provision may be used as evidence against the Contractor in actions taken pursuant to the provisions of Los Angeles Administrative Code Section 10.40, et seq., Contractor Responsibility Ordinance.

EXHIBIT F

RFP SELECTION EVALUATION FORM

PROJECT: Avalon Pedestrian Bridge and Promenade Gateway Project

Firm Name: _____ **Date:** _____

Evaluated by: _____

	Criteria to be Rated	Score (0-5)	Weight Factor	Weighted Score	Comments
Firm Qualifications, Experience and Reference					
1	Understanding of the Project (excluding the bridge)		5	0	
2	Understanding of the Technical Issues		5	0	
3	Cable-stayed Bridge Construction Management and Caltrans Experience		4	0	
4	Cable-stayed Bridge Construction Inspection and Quality Assurance Experience		4	0	
5	Familiarity with City of LA and Caltrans Construction Codes and Regulations		2	0	
6	Understanding of Local Community and Tenant Concerns		2	0	
7	Utility Relocation/Coordination Experience		3	0	
Project Organization, Personnel and Staffing					
8	Senior Construction Manager		5	0	
9	Structure Representative		5	0	
10	Office Engineer/Admin		4	0	
11	Scheduler/Estimator		4	0	
Project Approach, Work Plan, Management and Timeline					
12	Overall Management Plan		5	0	
13	Quality Assurance		4	0	
14	Cost and Schedule Control		4	0	
15	Identification of key issues that may impact work		3	0	
Rates, Fees and Budget Control					
16	Value of Services/Cost Effectiveness (Rates)		5	0	
Clarity and Comprehensiveness of Proposal					
17	Appearance and organization of proposal		2	0	

TOTAL 0

SCORING GUIDELINES:

0 - Not Included/Non-Responsive
1 - Marginal Abilities, Serious Deficiencies
2 - Adequate with Minor Deficiencies
3 - Adequate-Standard-Acceptable
4 - Well Qualified
5 - Exceptionally Well Qualified

EXHIBIT G

FORM 50

Bidder Certification

Los Angeles City ETHICS COMMISSION

This form must be submitted with your bid or proposal to the City department that is awarding the contract noted below. If you have questions about this form, please contact the Ethics Commission at (213) 978-1960.

☐ Original Filing ☐ Amendment: Date of Signed Original_____. Date of Last Amendment_____.

Reference Number (Bid, Contract, or BAVN)	Awarding Authority (Department awarding the contract)
Bidder Name	
Address	
Email Address	Phone Number

Certification

I certify the following on my own behalf or on behalf of the entity named above, which I am authorized to represent:

A. I am applying for one of the following types of contracts with the City of Los Angeles:

1. A goods or services contract with a value of more than $25,000 and a term of at least three months;
2. A construction contract with any value and duration;
3. A financial assistance contract, as defined in Los Angeles Administrative Code § 10.40.1(h), with a value of at least $100,000 and a term of any duration; or
4. A public lease or license, as defined in Los Angeles Administrative Code § 10.40.1(i), with any value and duration.

B. I acknowledge and agree to comply with the disclosure requirements and prohibitions established in the Los Angeles Municipal Lobbying Ordinance if I qualify as a lobbying entity under Los Angeles Municipal Code § 48.02.

I certify under penalty of perjury under the laws of the City of Los Angeles and the state of California that the information in this form is true and complete.

_____ _____

Name Signature

_____ _____

Title Date

Los Angeles Administrative Code § 10.40.1

(h) '"**City Financial Assistance Recipient**" means any person who receives from the City discrete financial assistance in the amount of One Hundred Thousand Dollars ($100,000.00) or more for economic development or job growth expressly articulated and identified by the City, as contrasted with generalized financial assistance such as through tax legislation.

Categories of such assistance shall include, but are not limited to, bond financing, planning assistance, tax increment financing exclusively by the City, and tax credits, and shall not include assistance provided by the Community Development Bank. City staff assistance shall not be regarded as financial assistance for purposes of this article. A loan shall not be regarded as financial assistance. The forgiveness of a loan shall be regarded as financial assistance. A loan shall be regarded as financial assistance to the extent of any differential between the amount of the loan and the present value of the payments thereunder, discounted over the life of the loan by the applicable federal rate as used in 26 U.S.C. Sections 1274(d), 7872(f). A recipient shall not be deemed to include lessees and sublessees.

Los Angeles Administrative Code § 10.37.1

(l) **"Public lease or license".**

(a) Except as provided in (l)(b), "Public lease or license" means a lease or license of City property on which services are rendered by employees of the public lessee or licensee or sublessee or sublicensee, or of a contractor or subcontractor, but only where any of the following applies:
  (1) The services are rendered on premises at least a portion of which is visited by substantial numbers of the public on a frequent basis (including, but not limited to, airport passenger terminals, parking lots, golf courses, recreational facilities); or
  (2) Any of the services could feasibly be performed by City employees if the awarding authority had the requisite financial and staffing resources; or
  (3) The DAA has determined in writing that coverage would further the proprietary interests of the City.

(b) A public lessee or licensee will be exempt from the requirements of this article subject to the following limitations:
  (1) The lessee or licensee has annual gross revenues of less than the annual gross revenue threshold, three hundred fifty thousand dollars ($350,000), from business conducted on City property;
  (2) The lessee or licensee employs no more than seven (7) people total in the company on and off City property;
  (3) To qualify for this exemption, the lessee or licensee must provide proof of its gross revenues and number of people it employs in the company's entire workforce to the awarding authority as required by regulation;
  (4) Whether annual gross revenues are less than three hundred fifty thousand dollars ($350,000) shall be determined based on the gross revenues for the last tax year prior to application or such other period as may be established by regulation;
  (5) The annual gross revenue threshold shall be adjusted annually at the same rate and at the same time as the living wage is adjusted under section 10.37.2 (a);
  (6) A lessee or licensee shall be deemed to employ no more than seven (7) people if the company's entire workforce worked an average of no more than one thousand two-hundred fourteen (1,214) hours per month for at least three-fourths (3/4) of the time period that the revenue limitation is measured;
  (7) Public leases and licenses shall be deemed to include public subleases and sublicenses;
  (8) If a public lease or license has a term of more than two (2) years, the exemption granted pursuant to this section shall expire after two (2) years but shall be renewable in two-year increments upon meeting the requirements therefor at the time of the renewal application or such period established by regulation.

FORM 55

Prohibited Contributors
(Bidders)

Los Angeles City ETHICS COMMISSION

This form must be completed in its entirety and submitted with your bid or proposal to the City department that is awarding the contract. Failure to submit a completed form may affect your bid or proposal. If you have questions about this form, please contact the Ethics Commission at (213) 978-1960.

☐ **Original Filing** ☐ **Amendment:** Date of Signed Original _____. Date of Last Amendment _____.

Reference Number (Bid, Contract, or BAVN): _____ Date Bid Submitted: _____

Contract Description (Title of the RFP or City contract solicitation and description of the services to be provided):

_____

Awarding Authority (Department awarding the contract): _____

Bidder Name: _____

Bidder Address: _____

Bidder Email Address: _____ Bidder Phone Number: _____

Schedule Summary

Please complete all three of the following:

1. **SCHEDULE A — Bidder's Principals** *(check one)*
   The bidder has one or more **PRINCIPALS,** as defined in LAMC § 49.7.35(A)(6).
   At least one principal is required for entities. *(If you check "Yes", Schedule A is required.)*
   Yes ☐ No ☐

2. **SCHEDULE B — Subcontractors and Their Principals** *(check one)*
   The bidder has one or more **SUBCONTRACTORS** on this bid or proposal with subcontracts worth $100,000 or more. *(If you check "Yes", Schedule B is required.)*
   Yes ☐ No ☐

3. **TOTAL NUMBER OF PAGES SUBMITTED** (including this cover page): _____

Certification

I certify the following under penalty of perjury under the laws of the City of Los Angeles and the state of California: A) I understand, will comply with, and have notified my principals and subcontractors of the requirements and restrictions in Los Angeles City Charter § 470(c)(12) and any related ordinances; B) I understand that I must amend this form within ten business days if any information changes; C) I am the bidder named above or I am authorized to represent the bidder named above, and my name appears below; and D) The information provided in this form is true and complete to the best of my knowledge and belief.

_____ _____

Name Signature

_____ _____

Title Date

FORM 55

Prohibited Contributors
(Bidders)

Los Angeles City ETHICS COMMISSION

Schedule A - Bidder's Principals

Please identify the names and titles of all the bidder's principals (attach additional sheets if necessary). Principals include a bidder's board chair, president, chief executive officer, chief operating officer, and individuals who serve in the functional equivalent of one or more of those positions. Principals also include individuals who hold an ownership interest in the bidder of at least 20 percent and employees of the bidder who are authorized by the bid or proposal to represent the bidder before the City.

Name: _____ Title: _____

Address: _____

Name: _____ Title: _____

Address: _____

Name: _____ Title: _____

Address: _____

Name: _____ Title: _____

Address: _____

Name: _____ Title: _____

Address: _____

Name: _____ Title: _____

Address: _____

Name: _____ Title: _____

Address: _____

Name: _____ Title: _____

Address: _____

Name: _____ Title: _____

Address: _____

☐ Check this box if additional Schedule A pages are attached.

FORM 55

Prohibited Contributors
(Bidders)

Los Angeles City ETHICS COMMISSION

Schedule B - Subcontractors and Their Principals

Please identify all subcontractors whose subcontracts are worth $100,000 or more. Separate Schedule B pages are required for each subcontractor who meets the threshold.

Subcontractor's Name
Subcontractor's Address

Please check one of the following options:

This subcontractor has one or more principals. ☐ **Yes*** ☐ **No**

* *Each principal's name and title must be identified below. Attach additional sheets if necessary. Principals include a subcontractor's board chair, president, chief executive officer, chief operating officer, and individuals who serve in the functional equivalent of one or more of those positions. Principals also include individuals who hold an ownership interest in the subcontractor of at least 20 percent and employees of the subcontractor who are authorized by the bid or proposal to represent the subcontractor before the City.*

Name: _____ Title: _____

Address: _____

Name: _____ Title: _____

Address: _____

Name: _____ Title: _____

Address: _____

Name: _____ Title: _____

Address: _____

Name: _____ Title: _____

Address: _____

Name: _____ Title: _____

Address: _____

☐ **Check this box if additional Schedule B pages are attached.**

EXHIBIT H

IRAN CONTRACTING ACT OF 2010 COMPLIANCE AFFIDAVIT

(California Public Contract Code Sections 2200-2208)

The California Legislature adopted the Iran Contracting Act of 2010 to respond to policies of Iran in a uniform fashion (PCC § 2201(q)). The Iran Contracting Act prohibits bidders engaged in investment activities in Iran from bidding on, submitting proposals for, or entering into or renewing contracts with public entities for goods and services of one million dollars ($1,000,000) or more (PCC § 2203(a)). A bidder who "engages in investment activities in Iran" is defined as either:

1. A bidder providing goods or services of twenty million dollars ($20,000,000) or more in the energy sector of Iran, including provision of oil or liquefied natural gas tankers, or products used to construct or maintain pipelines used to transport oil or liquefied natural gas, for the energy sector of Iran; **or**
2. A bidder that is a financial institution (as that term is defined in 50 U.S.C. § 1701) that extends twenty million dollars ($20,000,000) or more in credit to another person, for 45 days or more, if that person will use the credit to provide goods or services in the energy sector in Iran and is identified on a list created by the California Department of General Services (DGS) pursuant to PCC § 2203(b) as a person engaging in the investment activities in Iran.

The bidder shall certify that at the time of submitting a bid for new contract or renewal of an existing contract, the bidder is **not** identified on the DGS list of ineligible businesses or persons and that the bidder is **not** engaged in investment activities in Iran in violation of the Iran Contracting Act of 2010.

California law establishes penalties for providing false certifications, including civil penalties equal to the greater of $250,000 or twice the amount of the contract for which the false certification was made; contract termination; and three-year ineligibility to bid on contracts (PCC § 2205).

To comply with the Iran Contracting Act of 2010, the bidder shall provide its vendor or financial institution name, and City Business Tax Registration Certificate (BRTC) if available, in completing **ONE** of the options shown below.

OPTION #1: CERTIFICATION

I, the official named below, certify that I am duly authorized to execute this certification on behalf of the bidder or financial institution identified below, and that the bidder or financial institution identified below is **not** on the current DGS list of persons engaged in investment activities in Iran and is **not** a financial institution extending twenty million dollars ($20,000,000) or more in credit to another person or vendor, for 45 days or more, if that other person or vendor will use the credit to provide goods or services in the energy sector in Iran and is identified on the current DSG list of persons engaged in investment activities in Iran.

Vendor Name/Financial Institution (printed)		***BTRC (or n/a)***
By (Authorized Signature)		
Print Name and Title of Person Signing		
Date Executed	***City Approval (Signature)***	***(Print Name)***

OPTION #2: EXEMPTION

Pursuant to PCC § 2203(c) and (d), a public entity may permit a bidder or financial institution engaged in investment activities in Iran, on a case-by-case basis, to be eligible for, or to bid on, submit a proposal for, or enter into, or renew, a contract for goods and services. If the bidder or financial institution identified below has obtained an exemption from the certification requirement under the Iran Contracting Act of 2010, the bidder or financial institution shall complete and sign below and attach documentation demonstrating the exemption approval.

Vendor Name/Financial Institution (printed)		***BTRC (or n/a)***
By (Authorized Signature)		
Print Name and Title of Person Signing		
Date Executed	***City Approval (Signature)***	***(Print Name)***