

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION**

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Clean Water Act Section 401 Water Quality Certification
and Waste Discharge Requirements
for Discharge of Dredged and/or Fill Materials

**PROJECT: Marriott Marquis San Diego Marina –
Dock Repair Project
Certification Number R9-2015-0085
WDID: 9000002846**

Reg. Meas. ID: 401019
Place ID: 815279
Party ID: 551196
Person ID: 550190

**APPLICANT: Pacific Gateway Limited
333 West Harbor Drive
San Diego, CA 92101**

ACTION:

<input checked="" type="checkbox"/> Order for Low Impact Certification	<input type="checkbox"/> Order for Denial of Certification
<input type="checkbox"/> Order for Technically-conditioned Certification	<input type="checkbox"/> Enrollment in Isolated Waters Order No. 2004-004-DWQ
<input checked="" type="checkbox"/> Enrollment in SWRCB GWDR Order No. 2003-017-DWQ	

PROJECT DESCRIPTION

An application dated May 13, 2015 was submitted by Pacific Gateway Limited (hereinafter Applicant), for Water Quality Certification pursuant to section 401 of the Clean Water Act (United States Code (USC) Title 33, section 1341) for the proposed Marriott Marquis San Diego Marina – Dock Repair Project (Project). The California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) deemed the application to be complete on June 11, 2015. The Applicant has also applied for a Nationwide Permit No. 3 from the United States Army Corps of Engineers for the Project (USACE File No. 2015-00314-RRS).

The Project is located within the City of San Diego, San Diego County, California at 333 West Harbor Drive. The Project center reading is located at latitude 32.706831 and longitude -117.166325. The Applicant has paid all required application fees for this Certification in the amount of \$200. On June 12, 2015, the San Diego Water Board provided public notice of the Project application pursuant to California Code of Regulations, Title 23, section 3858 by posting information describing the Project on the San Diego Water Board's web site and providing a period of twenty-one days for public review and comment. No comments were received.

The Applicant proposes to remove old and deteriorated components from a 30-year-old dock system to repair or replace them. The existing dock system will be repaired by replacing the broken, deteriorated or corroded components including wood whalers; steel brackets, rods, and hardware; concrete float surfaces; pile guides; and cleats and bumpers. At least three

severely damaged concrete floats will also be replaced during the repair work. The new concrete deck and floating dock system will be identical in size and location to the existing deck and floating dock system. The materials and equipment required for Project work will be stored on land behind a free-standing fenced in area and sand bags will be utilized along the down slope side to contain any material debris. In-water work will be conducted from a small boat without a large crane that will be tied to the existing docks. No anchors or spuds will be deployed and the boat will not remain in one location for more than one week. A floating debris boom will be placed around the active work area, and containment for sinkable debris will be provided by utilizing tarps and filter fabric to prevent debris from entering the water. The Project is expected to be completed over 3 years.

The proposed Project will be in the same footprint as the existing floating dock and concrete deck, therefore no net increase in bay water coverage or eelgrass shading will occur. The Applicant reports that the Project will avoid impacts to aquatic resources and will not include any ocean bottom disturbing activities. Project construction is not expected to permanently impact ocean/marina waters of the United States and/or State. The total Project footprint is approximately 0.75 acre.

Additional Project details are provided in Attachment 2 of this Certification.

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1. Definitions
2. Project Location Map and Site Plans

I. STANDARD CONDITIONS

Pursuant to section 3860 of title 23 of the California Code of Regulations, the following three standard conditions apply to all water quality certification actions:

- A. This Certification action is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to section 13330 of the Water Code and chapter 28, article 6 (commencing with title 23, section 3867), of the California Code of Regulations.
- B. This Certification action is not intended and shall not be construed to apply to any discharge from any activity involving a hydroelectric facility and requiring a Federal Energy Regulatory Commission (FERC) license or an amendment to a FERC license unless the pertinent Certification application was filed pursuant to California Code of Regulations title 23, section 3855 subdivision (b), and that application specifically identified that a FERC license or amendment to a FERC license for a hydroelectric facility was being sought.
- C. This Certification action is conditioned upon total payment of any fee required under title 23, chapter 28 (commencing with section 3830) of California Code of Regulations and owed by the applicant.

II. GENERAL CONDITIONS

- A. **Term of Certification.** Water Quality Certification No. R9-2015-0085 (Certification) shall expire upon a) the expiration or retraction of the Clean Water Act section 404 (33 USC Title 33, section 1344) permit issued by the U.S. Army Corps of Engineers for this Project, or b) five (5) years from the date of issuance of this Certification, whichever occurs first.
- B. **Duty to Comply.** The Applicant must comply with all conditions and requirements of this Certification. Any Certification noncompliance constitutes a violation of the Water Code and is grounds for enforcement action or Certification termination, revocation and reissuance, or modification.
- C. **General Waste Discharge Requirements.** The requirements of this Certification are enforceable through Water Quality Order No. 2003-0017-DWQ, *Statewide General Waste Discharge Requirements for Discharges of Dredged or Fill Material that have Received State Water Quality Certification* (Water Quality Order No. 2003-0017-DWQ). This provision shall apply irrespective of whether a) the federal permit for which the Certification was obtained is subsequently retracted or is expired, or b) the Certification is expired. Water Quality Order No. 2003-0017-DWQ is accessible at:

http://www.waterboards.ca.gov/water_issues/programs/cwa401/docs/generalorders/gowdr401regulated_projects.pdf.
- D. **Project Conformance with Application.** All water quality protection measures and BMPs described in the application and supplemental information for water quality

certification are incorporated by reference into this Certification as if fully stated herein. Notwithstanding any more specific conditions in this Certification, the Applicant shall construct, implement and comply with all water quality protection measures and BMPs described in the application and supplemental information. The conditions within this Certification shall supersede conflicting provisions within the application and supplemental information submitted as part of this Certification action.

- E. **Project Conformance with Water Quality Control Plans or Policies.** Notwithstanding any more specific conditions in this Certification, the Project shall be constructed in a manner consistent with the Basin Plan and any other applicable water quality control plans or policies adopted or approved pursuant to the Porter Cologne Water Quality Act (Division 7, commencing with Water Code Section 13000) or section 303 of the Clean Water Act (33 USC section 1313). The Basin Plan is accessible at:

http://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/index.shtml

- F. **Project Modification.** The Applicant must submit any changes to the Project, including Project operation, which would have a significant or material effect on the findings, conclusions, or conditions of this Certification, to the San Diego Water Board for prior review and written approval. If the San Diego Water Board is not notified of a significant change to the Project, it will be considered a violation of this Certification.
- G. **Certification Distribution Posting.** During Project construction, the Applicant must maintain a copy of this Certification at the Project site. This Certification must be available at all times to site personnel and agencies. A copy of this Certification shall also be provided to any contractor or subcontractor performing construction work, and the copy shall remain in their possession at the Project site.
- H. **Inspection and Entry.** The Applicant must allow the San Diego Water Board or the State Water Resources Control Board, and/or their authorized representative(s) (including an authorized contractor acting as their representative), upon the presentation of credentials and other documents as may be required under law, to:
1. Enter upon the Project or Compensatory Mitigation site(s) premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Certification;
 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Certification;
 3. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Certification; and
 4. Sample or monitor, at reasonable times, for the purposes of assuring Certification compliance, or as otherwise authorized by the Clean Water Act or Water Code, any substances or parameters at any location.

- I. **Enforcement Notification.** In the event of any violation or threatened violation of the conditions of this Certification, the violation or threatened violation shall be subject to any remedies, penalties, process or sanctions as provided for under State law. For purposes of section 401(d) of the Clean Water Act, the applicability of any State law authorizing remedies, penalties, process or sanctions for the violation or threatened violation constitutes a limitation necessary to assure compliance with the water quality standards and other pertinent requirements incorporated into this Certification.
- J. **Certification Actions.** This Certification may be modified, revoked and reissued, or terminated for cause including but not limited to the following:
1. Violation of any term or condition of this Certification;
 2. Monitoring results indicate that continued Project activities could violate water quality objectives or impair the beneficial uses of the San Diego Bay or its tributaries;
 3. Obtaining this Certification by misrepresentation or failure to disclose fully all relevant facts;
 4. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge; and
 5. Incorporation of any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act or section 303 of the Clean Water Act.

The filing of a request by the Applicant for modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Certification condition.

- K. **Duty to Provide Information.** The Applicant shall furnish to the San Diego Water Board, within a reasonable time, any information which the San Diego Water Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Certification or to determine compliance with this Certification.
- L. **Property Rights.** This Certification does not convey any property rights of any sort, or any exclusive privilege.
- M. **Petitions.** Any person aggrieved by this action of the San Diego Water Board may petition the State Water Resources Control Board (State Water Board) to review the action in accordance with the California Code of Regulations, title 23, sections 3867 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Certification. Copies of the law and regulations applicable to filing petitions may be found on the Internet at: http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

III. CONSTRUCTION BEST MANAGEMENT PRACTICES

- A. **Approvals to Commence Construction.** The Applicant shall not commence Project construction until all necessary federal, State, and local approvals are obtained.
- B. **Personnel Education.** Prior to the start of the Project, and annually thereafter, the Applicant must educate all personnel on the requirements in this Certification, pollution prevention measures, spill response measures, and BMP implementation and maintenance measures.
- C. **Spill Containment Materials.** The Applicant must, at all times, maintain appropriate types and sufficient quantities of materials on-site to contain any spill or inadvertent release of materials that may cause a condition of pollution or nuisance if the materials reach waters of the United States and/or State.
- D. **Waste Management.** The Applicant must properly manage, store, treat, and dispose of wastes in accordance with applicable federal, state, and local laws and regulations. Waste management shall be implemented to avoid or minimize exposure of wastes to precipitation or storm water runoff. The storage, handling, treatment, or disposal of waste shall not create conditions of pollution, contamination or nuisance as defined in Water Code section 13050. Upon Project completion, all Project generated debris, building materials, excess material, waste, and trash shall be removed from the Project site(s) for disposal at an authorized landfill or other disposal site in compliance with federal, state and local laws and regulations.
- E. **Waste Management.** Except for a discharge permitted under this Certification, the dumping, deposition, or discharge of trash, rubbish, unset cement or asphalt, concrete, grout, damaged concrete or asphalt, concrete or asphalt spoils, wash water, organic or earthen material, steel, sawdust or other construction debris waste from Project activities directly into waters of the United States and or State, or adjacent to such waters in any manner which may permit its being transported into the waters, is prohibited.
- F. **Hazardous Materials.** Except as authorized by this Certification, substances hazardous to aquatic life including, but not limited to, petroleum products, unused cement/concrete, asphalt, and coating materials, must be prevented from contaminating the soil and/or entering waters of the United States and/or State. BMPs must be implemented to prevent such discharges during each Project activity involving hazardous materials.
- G. **Beneficial Use Protection.** The Applicant must take all necessary measures to protect the beneficial uses of waters of San Diego Bay. This Certification requires compliance with all applicable requirements of the Basin Plan. If at any time, an unauthorized discharge to surface waters (including rivers or streams) occurs or monitoring indicates that the Project is violating, or threatens to violate, water quality objectives, the associated Project activities shall cease immediately and the San Diego Water Board shall be notified in accordance with Notification Requirement VI.A of this Certification.

Associated Project activities may not resume without approval from the San Diego Water Board.

IV. PROJECT IMPACTS

- A. **Project Impact Avoidance and Minimization.** The Project must avoid and minimize adverse impacts to waters of the United States and/or State to the maximum extent practicable. In-water work must not cause a discharge of waste to San Diego Bay, must avoid ocean bottom disturbance, and must not cause a net-increase to eelgrass shading.

V. MONITORING AND REPORTING REQUIREMENTS

- A. **Discharge Commencement Notification.** The Applicant must notify the San Diego Water Board in writing **at least 5 days prior to** the start of Project construction.
- B. **Final Project Completion Report.** The Applicant must submit a Final Project Completion Report to the San Diego Water Board **within 30 days of completion of the Project.** The final report must include the following information:
1. Date of construction initiation;
 2. Date of construction completion;
 3. As-built drawings of the Project, no bigger than 11”X17”; and
- C. **Reporting Authority.** The submittal of information required under this Certification, or in response to a suspected violation of any condition of this Certification, is required pursuant to Water Code section 13267 and 13383. Civil liability may be administratively imposed by the San Diego Water Board for failure to submit information pursuant to Water Code sections 13268 or 13385.
- D. **Electronic Document Submittal.** The Applicant must submit all reports and information required under this Certification in electronic format via e-mail to SanDiego@waterboards.ca.gov. Documents over 50 megabytes will not be accepted via e-mail and must be placed on a disc and delivered to:

California Regional Water Quality Control Board
San Diego Region
Attn: 401 Certification No. R9-2015-0085:815279:lhonma
2375 Northside Drive, Suite 100
San Diego, California 92108

Each electronic document must be submitted as a single file, in Portable Document Format (PDF), and converted to text searchable format using Optical Character Recognition (OCR). All electronic documents must include scanned copies of all signature pages; electronic signatures will not be accepted. Electronic documents submitted to the San Diego Water Board must include the following identification numbers in the header or subject line: Certification No. R9-2015-0085:815279:lhonma.

E. Document Signatory Requirements. All applications, reports, or information submitted to the San Diego Water Board must be signed as follows:

1. For a corporation, by a responsible corporate officer of at least the level of vice president.
2. For a partnership or sole proprietorship, by a general partner or proprietor, respectively.
3. For a municipality, or a state, federal, or other public agency, by either a principal executive officer or ranking elected official.
4. A duly authorized representative may sign applications, reports, or information if:
 - a. The authorization is made in writing by a person described above.
 - b. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated activity.
 - c. The written authorization is submitted to the San Diego Water Board Executive Officer.

If such authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the Project, a new authorization satisfying the above requirements must be submitted to the San Diego Water Board prior to or together with any reports, information, or applications, to be signed by an authorized representative.

F. Document Certification Requirements. All applications, reports, or information submitted to the San Diego Water Board must be certified as follows:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

VI. NOTIFICATION REQUIREMENTS

A. Twenty Four Hour Non-Compliance Reporting. The Applicant shall report any noncompliance which may endanger health or the environment. Any such information shall be provided orally to the San Diego Water Board within **24 hours** from the time the Applicant becomes aware of the circumstances. A written submission shall also be provided within five days of the time the Applicant becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue; and steps taken

or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The San Diego Water Board, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

- B. Hazardous Substance Discharge.** Except for a discharge which is in compliance with this Certification, any person who, without regard to intent or negligence, causes or permits any hazardous substance or sewage to be discharged in or on any waters of the State, shall as soon as (a) that person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the County of San Diego, in accordance with California Health and Safety Code section 5411.5 and the California Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State toxic disaster contingency plan adopted pursuant to Government Code Title 2, Division 1, Chapter 7, Article 3.7 (commencing with section 8574.17), and immediately notify the State Water Board or the San Diego Water Board of the discharge. This provision does not require reporting of any discharge of less than a reportable quantity as provided for under subdivisions (f) and (g) of section 13271 of the Water Code unless the Applicant is in violation of a Basin Plan prohibition.
- C. Oil or Petroleum Product Discharge.** Except for a discharge which is in compliance with this Certification, any person who without regard to intent or negligence, causes or permits any oil or petroleum product to be discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, shall, as soon as (a) such person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the California Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State oil spill contingency plan adopted pursuant to Government Code Title 2, Division 1, Chapter 7, Article 3.7 (commencing with section 8574.1). This requirement does not require reporting of any discharge of less than 42 gallons unless the discharge is also required to be reported pursuant to Clean Water Act section 311, or the discharge is in violation of a Basin Plan prohibition.
- D. Anticipated Noncompliance.** The Applicant shall give advance notice to the San Diego Water Board of any planned changes in the Project or the Compensatory Mitigation project which may result in noncompliance with Certification conditions or requirements.
- E. Transfers.** This Certification is not transferable in its entirety or in part to any person or organization except after notice to the San Diego Water Board in accordance with the following terms:
- 1. Transfer of Property Ownership:** The Applicant must notify the San Diego Water Board of any change in ownership of the Project area. Notification of change in ownership must include, but not be limited to, a statement that the Applicant has provided the purchaser with a copy of the Section 401 Water Quality Certification and that the purchaser understands and accepts the certification requirements and the obligation to implement them or be subject to liability for failure to do so; the

seller and purchaser must sign and date the notification and provide such notification to the San Diego Water Board **within 10 days of the transfer of ownership.**

Upon properly noticed transfers of responsibility, the transferee assumes responsibility for compliance with this Certification and references in this Certification to the Applicant will be interpreted to refer to the transferee as appropriate. Transfer of responsibility does not necessarily relieve the Applicant of responsibility for compliance with this Certification in the event that a transferee fails to comply.

VII. CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE

- A. The San Diego Unified Port District is the Lead Agency under the California Environmental Quality Act (CEQA) (Public Resources Code section 21000, et seq.) section 21067, and CEQA Guidelines (California Code of Regulations, title 14, section 15000 et seq.) section 15367, and has determined that the Project is categorically exempt¹.
- B. The San Diego Water Board is a Responsible Agency under CEQA (Public Resources Code section 21069; CEQA Guidelines section 15381). The San Diego Water Board has independently determined that the project is categorically exempt because the project repairs existing private structures resulting in negligible or no expansion of existing use², and replaces existing structures located at the same site that will have substantially the same purpose and capacity as the structures be replaced.³
- C. As a Responsible Agency under CEQA, the San Diego Water Board will file a Notice of Exemption in accordance with CEQA Guidelines section 15096.

VIII. SAN DIEGO WATER BOARD CONTACT PERSON

Lisa Honma, Environmental Scientist
Telephone: 619-521-3367
Email: Lisa.Honma@waterboards.ca.gov

IX. WATER QUALITY CERTIFICATION

I hereby certify that the proposed discharge from the **Marriott Marquis San Diego Marina – Dock Repair Project** (Certification No. R9-2015-0085) will comply with the applicable provisions of sections 301 ("Effluent Limitations"), 302 ("Water Quality Related Effluent Limitations"), 303 ("Water Quality Standards and Implementation Plans"), 306 ("National Standards of Performance"), and 307 ("Toxic and Pretreatment Effluent Standards") of the Clean Water Act. This discharge is also regulated under State Water Board Order No. 2003-0017-DWQ, "*Statewide General Waste Discharge Requirements for Dredged or Fill Discharges that have Received State Water Quality Certification (General WDRs)*," which requires compliance with all conditions of this Water Quality Certification. Please note that

¹ 14 CCR sections 15301 and/or 15302

² 14 CCR section 15301

³ 14 CCR section 15302

enrollment under Order No. 2003-017-DWQ is conditional and, should new information come to our attention that indicates a water quality problem, the San Diego Water Board may issue individual waste discharge requirements at that time.

Except insofar as may be modified by any preceding conditions, all Certification actions are contingent on (a) the discharge being limited to, and all proposed mitigation being completed in strict compliance with, the applicants' Project description and/or the description in this Certification, and (b) compliance with all applicable requirements of the Basin Plan.

I, David W. Gibson, Executive Officer, do hereby certify the forgoing is a full, true, and correct copy of Certification No. R9-2015-0085 issued on August 5, 2015.



DAVID W. GIBSON
Executive Officer
San Diego Water Board

5 August 2015

Date

ATTACHMENT 1

DEFINITIONS

Activity - when used in reference to a permit means any action, undertaking, or project including, but not limited to, construction, operation, maintenance, repair, modification, and restoration which may result in any discharge to waters of the state.

Buffer - means an upland, wetland, and/or riparian area that protects and/or enhances aquatic resource functions associated with wetlands, rivers, streams, lakes, marine, and estuarine systems from disturbances associated with adjacent land uses.

California Rapid Assessment Method (CRAM) - is a wetland assessment method intended to provide a rapid, scientifically-defensible and repeatable assessment methodology to monitor status and trends in the conditions of wetlands for applications throughout the state. It can also be used to assess the performance of compensatory mitigation projects and restoration projects. CRAM provides an assessment of overall ecological condition in terms of four attributes: landscape context and buffer, hydrology, physical structure and biotic structure. CRAM also includes an assessment of key stressors that may be affecting wetland condition and a "field to PC" data management tool (eCRAM) to ensure consistency and quality of data produced with the method.

Compensatory Mitigation Project - means compensatory mitigation implemented by the Applicant as a requirement of this Certification (i.e., applicant -responsible mitigation), or by a mitigation bank or an in-lieu fee program.

Discharge of dredged material – means any addition of dredged material into, including redeposit of dredged material other than incidental fallback within, the waters of the United States and/or State.

Discharge of fill material – means the addition of fill material into waters of the United States and/or State.

Dredged material – means material that is excavated or dredged from waters of the United States and/or State.

Ecological Success Performance Standards – means observable or measurable physical (including hydrological), chemical, and/or biological attributes that are used to determine if a compensatory mitigation project meets its objectives.

Enhancement – means the manipulation of the physical, chemical, or biological characteristics of an aquatic resource to improve a specific aquatic resource function(s). Enhancement results in the gain of selected aquatic resource function(s), but may also lead to a decline in other aquatic resource function(s). Enhancement does not result in a gain in aquatic resource area.

Establishment – means the manipulation of the physical, chemical, or biological characteristics present to develop an aquatic resource that did not previously exist. Creation results in a gain in aquatic resource area.

Fill material – means any material used for the primary purpose of replacing an aquatic area with dry land or of changing the bottom elevation of a water body.

Isolated wetland – means a wetland with no surface water connection to other aquatic resources.

Mitigation Bank – means a site, or suite of sites, where resources (e.g., wetlands, streams, riparian areas) are restored, established, enhanced, and/or preserved for the purpose of providing mitigation for impacts authorized by this Certification.

Preservation - means the removal of a threat to, or preventing the decline of, aquatic resources by an action in or near those aquatic resources. This term includes activities commonly associated with the protection and maintenance of aquatic resources through the implementation of appropriate legal and physical mechanisms. Preservation does not result in a gain of aquatic resource area or functions.

Re-establishment - means the manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/ historic functions to a former aquatic resource. Re-establishment results in rebuilding a former aquatic resource and results in a gain in aquatic resource area and functions.

Rehabilitation - means the manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural/ historic functions to a degraded aquatic resource. Rehabilitation results in a gain in aquatic resource function, but does not result in a gain in aquatic resource area.

Restoration - means the manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural/historic functions to a former or degraded aquatic resource. For the purpose of tracking net gains in aquatic resource area, restoration is divided into two categories: re-establishment and rehabilitation.

Start of Project Construction - For the purpose of this Certification, "start of Project construction" means to engage in a program of on-site construction, including site clearing, grading, dredging, landfilling, changing equipment, substituting equipment, or even moving the location of equipment specifically designed for a stationary source in preparation for the fabrication, erection or installation of the building components of the stationary source within waters of the United States and/or State.

Uplands - means non-wetland areas that lack any field-based indicators of wetlands or other aquatic conditions. Uplands are generally well-drained and occur above (i.e., up-slope) from nearby aquatic areas. Wetlands can, however, be entirely surrounded by uplands. For example, some natural seeps and constructed stock ponds lack aboveground hydrological connection to other aquatic areas. In the watershed context, uplands comprise the landscape matrix in which aquatic areas form. They are the primary sources of sediment, surface runoff, and associated chemicals that are deposited in aquatic areas or transported through them.

Water quality objectives and other appropriate requirements of state law – means the water quality objectives and beneficial uses as specified in the appropriate water quality control plan(s); the applicable provisions of sections 301, 302, 303, 306, and 307 of the Clean Water Act; and any other appropriate requirement of state law.

Pacific Gateway Limited
Marriot Marquis San Diego Marina – Dock Repair Project
Certification No. R9-2015-0085

ATTACHMENT 2

PROJECT LOCATION MAP AND SITE PLANS

MARRIOTT MARQUIS SAN DIEGO MARINA MARINA DOCK REPAIR

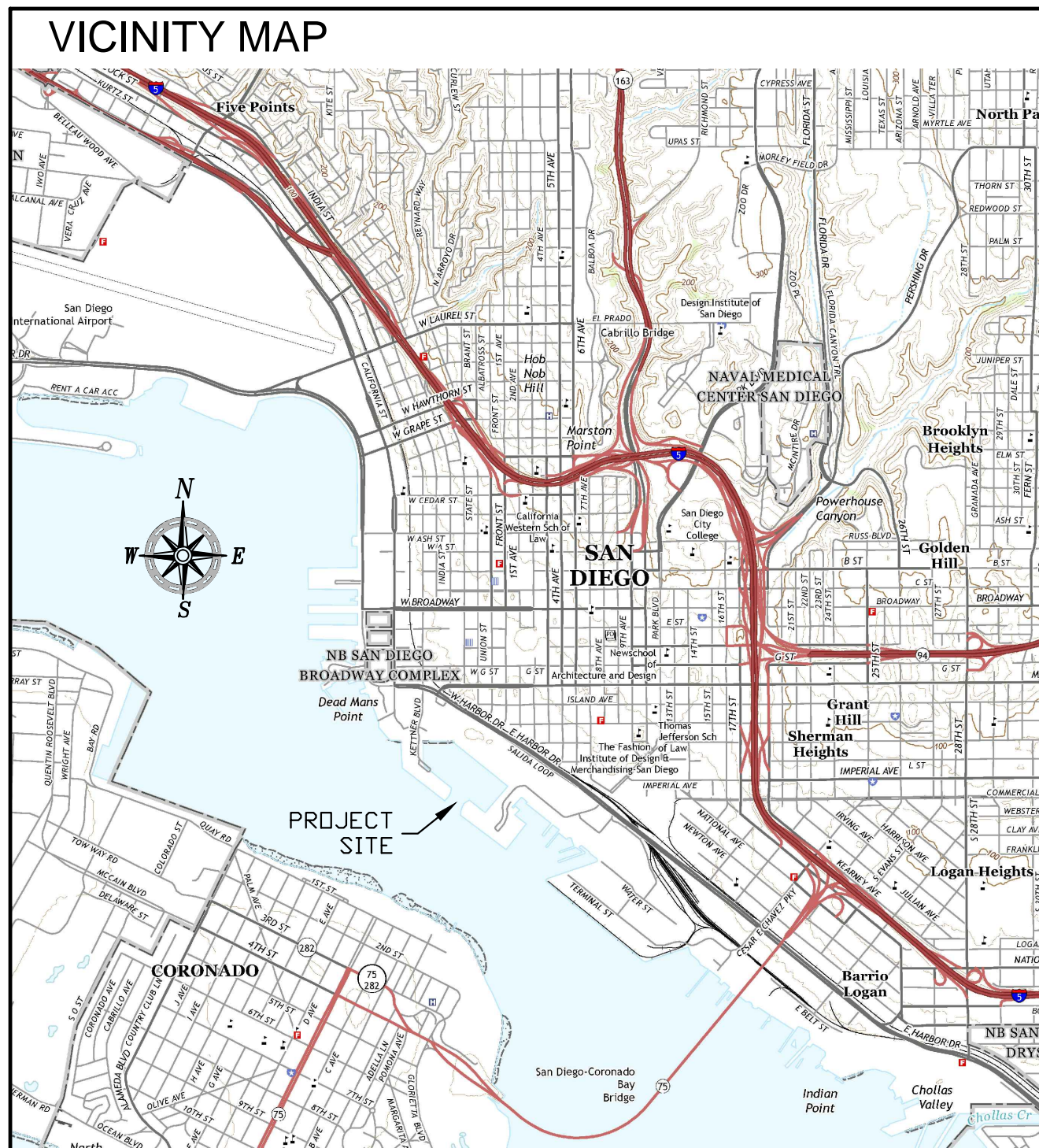
CLIENT:



Host Hotels & Resorts, L.P.
333 W. Harbor Drive Ph: (619) 230-8336
San Diego, CA 92101

PREPARED BY:

Streamline WEST
ENGINEERING LLC
(503) 577-0493
greg@streamlinewest.com



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Expires: 12/31/15

NOT FOR
CONSTRUCTION

PROJECT NUMBER: 14014

MARINA DOCK REPAIR

REVISION:

DRAWN BY: GSR
ISSUE DATE: June 22, 2015
FILE NAME: Marquis Repair Plans.dwg

SHEET:
COVER

001

PROJECT SCOPE AND STANDARDS:

A. Scope of Work

The dock repair (Work) to be performed includes all labor and materials to refurbish the existing concrete berthing system and gangways. The Work includes the replacement of broken, deteriorated and/or corroded components including, but not limited to, miscellaneous metal components, hardware, steel rods, wood members and related dock accessories such as cleats, plywood covers, rollers, rub blocks and bumpers.

B. Applicable Publications/Agencies/Permits

The publications, Agency Requirements and Permits including associated conditions listed below form a part of these Specifications. The publications may be referred to in the text by the basic designation only.

1. American Society of Testing and Materials (ASTM) Publications
2. American Concrete Institute (ACI) Publications
3. California State Parks, Division of Boating and Waterways, Guidelines Marina Berthing Facilities
4. Latest Edition of the West Coast Lumber Inspection Bureau (WCLIB)
5. Latest Edition of the California Building Code (CBC)
6. Standards of the American Wood Preservers Association
7. Western Wood Products Association (WWPA)
8. American Wood Protection Association (AWPA)
9. Occupational Safety & Health Administration (OSHA)
10. International Concrete Repair Institute (ICRI)
11. Port of San Diego
12. California Environmental Quality Act (CEQA)
13. United States Army Corps of Engineers (USACE)
14. San Diego Regional Water Quality Control Board (RWQCB)

GENERAL REQUIREMENTS:

- A. The Contractor shall comply with and provide all specific details and requirements identified in the Marina Dock Repair plans (Repair Plans). All materials shall be applied, constructed and/or installed per these Repair Plans and manufacturer recommendations. Conflicts between the Repair Plans and manufacturer recommendations shall be brought to the owner's and Engineer's attention for resolution prior to proceeding with the Work associated with the conflict.
- B. The dimensions and layout of the berthing system are shown on the Repair Plans. The Contractor shall verify existing conditions and dimensions relating to the Work. Notify the Owner and Engineer in writing of any conditions that differ from the drawings. Commencement of Work without such notification shall be construed as acceptance of all conditions.
- C. Dimensions shown on the Repair Plans are nominal dimensions. See the Inter-Continental Marina - Navy Field Design Plans by Bellingham Marine dated 8-23-1982 for additional dimensions and details. Field verify all dimensions and members prior to fabrications and installation
- D. The Contractor shall be limited to the area(s) designated by the owner for the construction yard. The construction yard shall be for the storage of materials and the Contractor's assembly area. If additional space is required, it shall be the responsibility of the

Contractor to provide it or coordinate with and obtain approval from the owner.

- E. It is the Contractor's responsibility to coordinate with mechanical and electrical personnel prior to beginning repairs and refurbishment to minimize impacts to and down time associated with the Work.
- F. Access to the Work site, phasing of dock repairs, working hours and the schedule shall be coordinated with and approved by the Owner.
- G. The Contractor is solely responsible for the quality of construction. Obtain Owner and Engineer acceptance of all Work completed.
- H. The Contractor is to protect all existing features and improvements to remain. Repair or replace all damaged items to the Owner's satisfaction.
- I. The Contractor, Owner and Engineer shall perform a walk through of each phase of the Work to make an initial determination of the deteriorated components to be repaired and/or replaced. Changes to the identified components to be replaced or additional deteriorated components identified during the Work shall be brought to the Owner's and Engineer's attention and approved prior to commencing with the repair.
- J. Upon completion of each phase of the Work, a walk through is to be performed with the Owner & Engineer to gain approval or identify punch list items and revisions to the repair approach and/or components to be repaired.

SUBMITTALS

- A. Before delivery of materials, manufacturer's mill certificates, catalog sheets and/or certificates of compliance shall be submitted for the following materials:
 1. Concrete repair materials, epoxy, bonding agents, primers, paint and patching products
 2. Steel reinforcement, miscellaneous metal components, hardware, steel rods, and protective coatings including galvanizing, epoxy and corrosion inhibitor
 3. Lumber grade and treatment certifications
 4. All plastic, rubber, fiberglass, polymer or fabric materials including UV rating for the intended use in direct sunlight and marine application
 5. Certificates are required for all materials associated with the Work.
- B. Shop Drawings:
 1. Shop drawings shall be submitted for review and approval for the following items:
 - Gangways
 - Triangle frames
 - Pile guide systems
 - Steel brackets
 - Concrete floats
 2. Shop Drawings shall identify the specific details relative to fabrication, materials, details of construction, system assembly and repair procedure.
 3. Any specifics relative to the manufacturer's method of operation, including handling, shall be shown on the Shop Drawings and shall be submitted for approval.
 4. The Shop Drawings shall show manufacturer's details and materials for the Work required including but not limited to

details of lumber, carpentry, hardware and miscellaneous metal fabrication.

PRODUCTS:

- A. Reinforcement
 1. Reinforcing steel shall conform to ASTM A-615, Grade 40 or 60.
- B. Embedments
 1. Embedments in concrete shall be Type 316 stainless steel unless approved otherwise.
- C. Concrete Repair Materials and Procedures (to be determined)
 1. Mechanically remove all deteriorated unsound concrete. Remove concrete to expose un-corroded reinforcement. Remove concrete from behind the reinforcement a minimum of 3/4". Saw cut the perimeter of the demolition to define the extent of the repair and create a working edge. Rectangular geometries and 1/2" deep sawcuts are preferred. Area within the repair should be prepared to achieve an ICRI concrete surface profile (CSP) equivalent to or greater than CSP 6.
 2. Mechanically clean the exposed reinforcement to remove all corrosion (SSPC 3 min.). Where section loss of reinforcement appears excessive (>20%), consult with Engineer for direction regarding need for replacement or supplemental reinforcement.
 3. Coat prepared reinforcement with Armatec 110 corrosion inhibitor. Apply in two coats at 20 mils/coat. Allow to dry before proceeding.
 4. Prepare surfaces and fill voids with SikaTop Plus repair mortars with integral corrosion inhibitor per manufacturer's recommendations. Use: SikaTop 111 Plus for forming and pouring applications and SikaTop 122 Plus for horizontal trowel applications. Allow SikaTop to cure a minimum of 3-5 days prior to the application of any Sika coatings.
 5. Prepare surface and apply Sika FerroGard 903 to entire float surface.
 6. Prepare surface, detail larger cracks and apply Sikadur 55 SLV over float surface.
 7. Prepare surface and apply Sikadur 22 Low Mod over float surface and broadcast silica sand until refusal. After cured, remove excess sand and properly dispose.
 8. All surfaces shall be prepared and products should be applied per manufacturer recommendations and limitations found in the most current specifications and technical product data sheets.
- D. LUMBER
 1. All lumber shall be Douglas fir, Grade No. 1, per WWPA Grading Rules, unless otherwise approved by the Engineer.
 2. Lumber shall be selected for appearance and stored to prevent warping, checking and cracking.
 3. Wane shall not be accepted on the top surface of whalers or under rub strips. Lumber shall be fabricated accurately to provide uniform gaps and butt joint connections.
- E. PRESERVATIVE TREATMENT
 1. Lumber shall be pressure preservative treated with CCA to conform with AWPA Standard U1 use category UC5B with a retention of 0.4 pcf unless otherwise approved by the engineer.
 2. All lumber will be cut to length and bolt holes drilled prior to pressure treatment unless approved otherwise.
 3. Holes and ends exposed after pressure treatment will be brushed or swabbed in the field with the preservative solution.

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Expires: 12/31/15

NOT FOR
CONSTRUCTION

PROJECT NUMBER: 14014

**MARINA
DOCK REPAIR**

REVISION:

DRAWN BY: GSR
ISSUE DATE: June 22, 2015
FILE NAME: Marquis Repair Plans.dwg

SHEET:

**GENERAL
NOTES &
MATERIALS**

002

4. All minimum edge distances for steel plates shall be in accordance with AISC Manual of Steel Construction, latest edition. Minimum edge distances for bolt holes in timber members shall be in accordance with Western Wood Use Book, latest edition.
 5. Certificates of Conformance to AWPA standards for wood preservative shall be submitted for approval.
 6. Should the grade stamp be obliterated from the wood during the treatment process, a Certificate of Compliance shall be submitted demonstrating lumber specification compliance.
- F. DOCK PILE GUIDES/RUB BLOCKS/ROLLER ASSEMBLIES:**
1. Rub blocks and strips shall be UHMW polyethylene. UHMW shall have a minimum density of 0.93 per ASTM D-792, minimum hardness of sixty-eight (68) per ASTM-D-2240, coefficient of static friction to steel of 0.20 per ASTM D-1894, and UV stable for use in direct sunlight.
 2. Rub block and strips shall be secured with Type 316 stainless steel fasteners.
 3. Applications where roller assemblies are required rollers assemblies shall be as supplied by Henderson Marine Supply or approved equal. Assembly shall have hot dipped galvanized adjustable base, separate stainless steel axel, and roller made of Ultra High Molecular Weight plastic.
- G. DOCK CLEATS**
1. Dock cleats shall be gray cast iron, hot dipped galvanized, type 503H as supplied by Henderson Marine or approved equal. Bolts shall be 1/2" and recessed into cleats.
 2. A minimum of six cleats shall be required per slip, three per side as shown on the plans.
 3. All cleats to be installed utilizing thru bolts with lock washers and nuts. Lag bolting of cleats to whalers is not acceptable.
- H. DOCK BUMPERS**
1. Dock bumpers shall be H290 Henderson Bumper, Item #03-H290, as supplied by Henderson Marine or approved equal.
 2. All outside corners shall be protected with Extra Large Perimeter Corner Bumpers, Item #03-CB6.20 as supplied by Henderson Marine or approved equal.
 3. Bumper attachment to be with large head, Type 316 stainless steel screws spaced per manufacturers recommendation. Do not over-tighten the screws and damage (crack, pull through, etc.) the bumpers.
- I. FILLER PANELS**
1. New filler panels for triangles finger connections and pile guide assemblies shall be either Marine Grade or Exterior Grade C-C plugged, plugged and jointed inner plies. It shall be Group 1 Species, pressure treated as specified herein and dried to 18% moisture or less following treatment.
 2. Optional filler shall be fabricated from medium density polyethylene and submitted for approval.
 3. Cut openings in filler panels to accommodate pile penetrations shall not be over cut more that one inch (1") in any direction around the pile.
 4. Filler panels will be flush with the concrete deck surface and structurally supported in all directions.

J. STEEL

1. All steel hardware components, channels, angle iron, and plates shall be fabricated from mild steel conforming to ASTM A-36.
2. All steel components, plates, brackets and angles shall be hot dipped galvanized after fabrication in accordance with ASTM A-123 or ASTM A-153 as applicable.
3. Galvanizing Repair Paint: High zinc dust content paint, with dry film containing not less than 94 percent zinc dust by weight, as manufactured by Parker-Amchem, "Galvaprep SG"; Sherwin Williams, "Zinc Clad I" or approved equal.

K. HARDWARE

1. All nuts, bolts, steel rods and washers shall be mild steel in accordance with ASTM A-307 with a minimum of 1-1/2 inches of thread or as required for proper assembly and tightening. All hardware shall be Type 316 stainless or hot dipped galvanized in accordance with ASTM A-123. Submit proposed materials for approval.
2. Replacement steel rods maybe either 5/8 inch or 3/4 inch galvanized thru-rods with 6" thread as supplied by Marine Accessories or approved equal. Lengths to be field verified to be properly recessed where necessary.
3. The appropriate size plate and cut washers are required depending upon the diameter of the steel rod used. In all cases washers and lock washers are required on all nuts and bolts bearing either on steel or wood. The following galvanized iron, round plate washers and lock washers are required on all steel rods bearing on wood.
5/8" Steel Rod - Use 2-1/2" diameter round plate washer
3/4" Steel Rod - Use 3" diameter round plate washer
4. Cut washers and lock washers are to be used in all locations bearing on steel.
5. All nails and screws shall be Type 316 stainless or hot dipped galvanized and sized for the application. Submit materials and cost for approval.

L. SUPPLEMENTAL FLOATATION

1. Supplemental floatation shall consist of EPS foam, totally encased in a seamless UV rated material such as "SUPERFLOAT" as supplied by Henderson Marine or approved equal.
2. Sizes, quantity, and number of additional floatation units shall be determined by field conditions and approved by the Owner and Engineer.

M. CONCRETE FLOATS

1. All concrete units shall be supplied & installed free of defects with no signs of cracking or spalling. Any units damaged prior to installation shall be rejected and removed from the job site.
2. The concrete floats shall be delivered to the job site when the site has been prepared for in-water assembly. Minimize on-site storage.
3. Float dimensions and freeboard shall match the existing float to be replaced. Field verify all dimensions prior to fabrication.
4. Concrete floats shall be fabricated by firms with a minimum of five (5) years experience in the manufacture units similar to those shown on plans.
5. Before delivery of floats, shop drawings, manufacturer's

- certificates of compliance and mix designs shall be submitted and approved for all materials used within the float.
6. Concrete deck surfaces shall be broom finished in the direction parallel to the thru-bolt in the float.
 7. Each float shall be marked to identify the mfr., fabrication date and float number correlated with the location to be installed.

EXECUTION

A. INSTALLATION

1. Completed repaired and/or reassembled floats sections shall be level including but not limited to work associated with floatation adjustments, lumber replacement, steel rod replacement, steel frames and covers.
2. Concrete deck repairs shall be flush with the deck and finished to match the existing deck and whaler surface.
3. Abutting ends of lumber shall have a one-eighth inch (1/8") gap and shall occur at the centerline of float units at staggered intervals, with no two abutting ends occur on the same float unit. Whaler integrity shall be continuous throughout length of all fingers and walkways.
4. The length of each whaler shall be as long as possible but at no time will whalers be secured to the floats with less than two (2) steel rods.
5. Top of whalers and trim lumber adjacent to the floats shall all be flush with the finished concrete deck surface.
6. When triangle frames and pile guide assemblies are used adjacent to the floats all surfaces shall be flush with the finished deck surface.
7. Lumber joints of wood members abutting at ninety degrees (90°) shall be cut and assembled true and level. Lumber joints at other then ninety degrees (90°) shall be mitered to provide a true and level joint.
8. Structural steel fabrication and installation shall conform to the requirements of AISC Specifications for the design, fabrication and erection of structural steel.
9. Fabricated steel components shall be designed for the application plus provide support for such items as power centers, locker boxes and fire hose cabinets, foot traffic and opening around concrete pile. Galvanizing of steel fabricated components shall be after fabrication.
10. Fabricated steel components used to secure concrete pile shall provide means for positive adjustment to accommodate pile location.
11. All welding shall be performed by certified welders, and shall conform to the current specifications of the American Welding Society.
12. Bolts shall be of the size required, with adequate thread length. All screws shall be pre-bored and turned into place. Driving screws will not be allowed.
13. Field welding is not allowed unless approved by the Owner and Engineer. Damaged galvanizing shall be repaired utilizing approved methods and materials. The Contractor shall submit repair procedures and materials for approval prior to performing repairs.

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NOT FOR CONSTRUCTION

PROJECT NUMBER: 14014

MARINA DOCK REPAIR

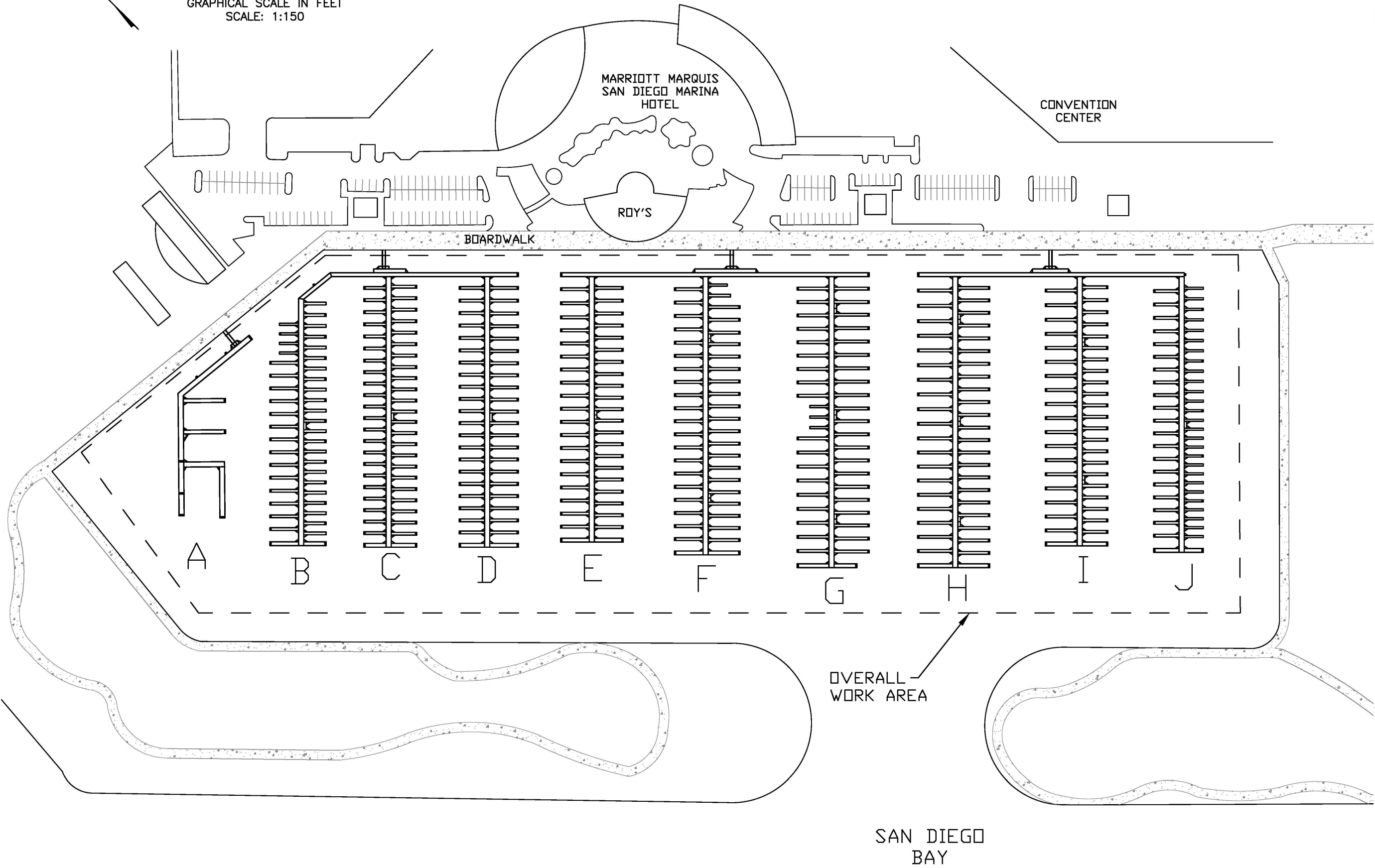
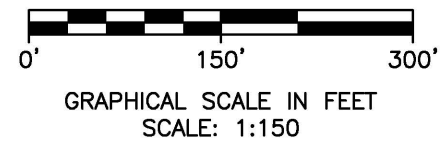
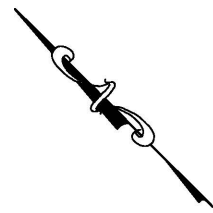
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GENERAL NOTES & MATERIALS

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OVERALL DOCK LAYOUT

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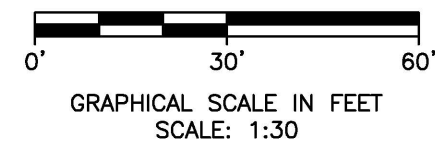
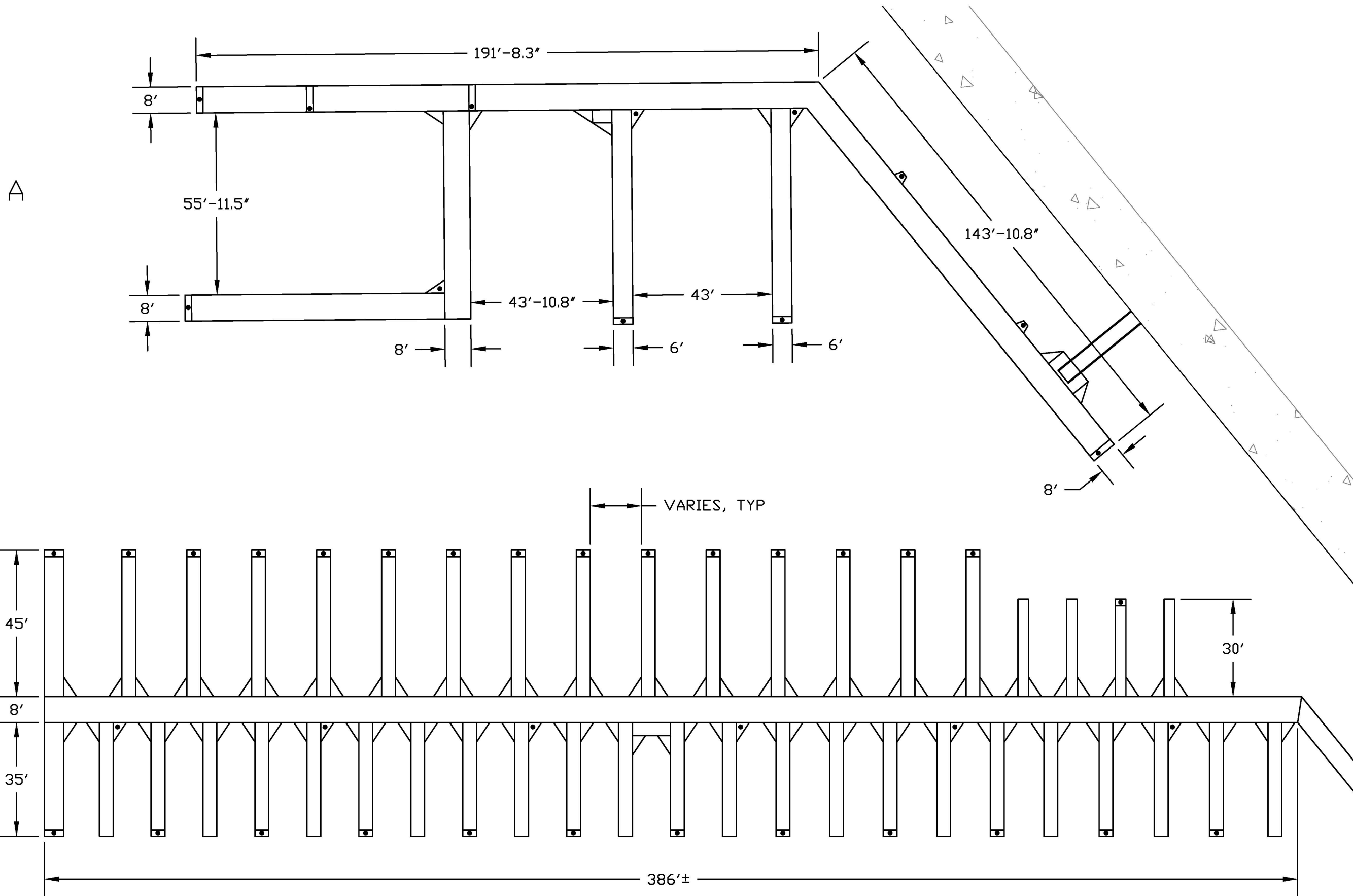
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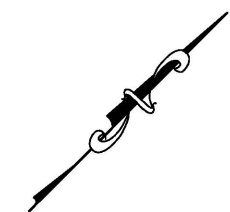
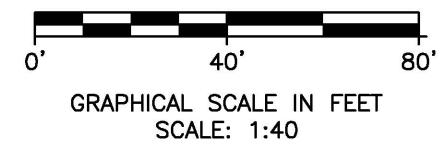
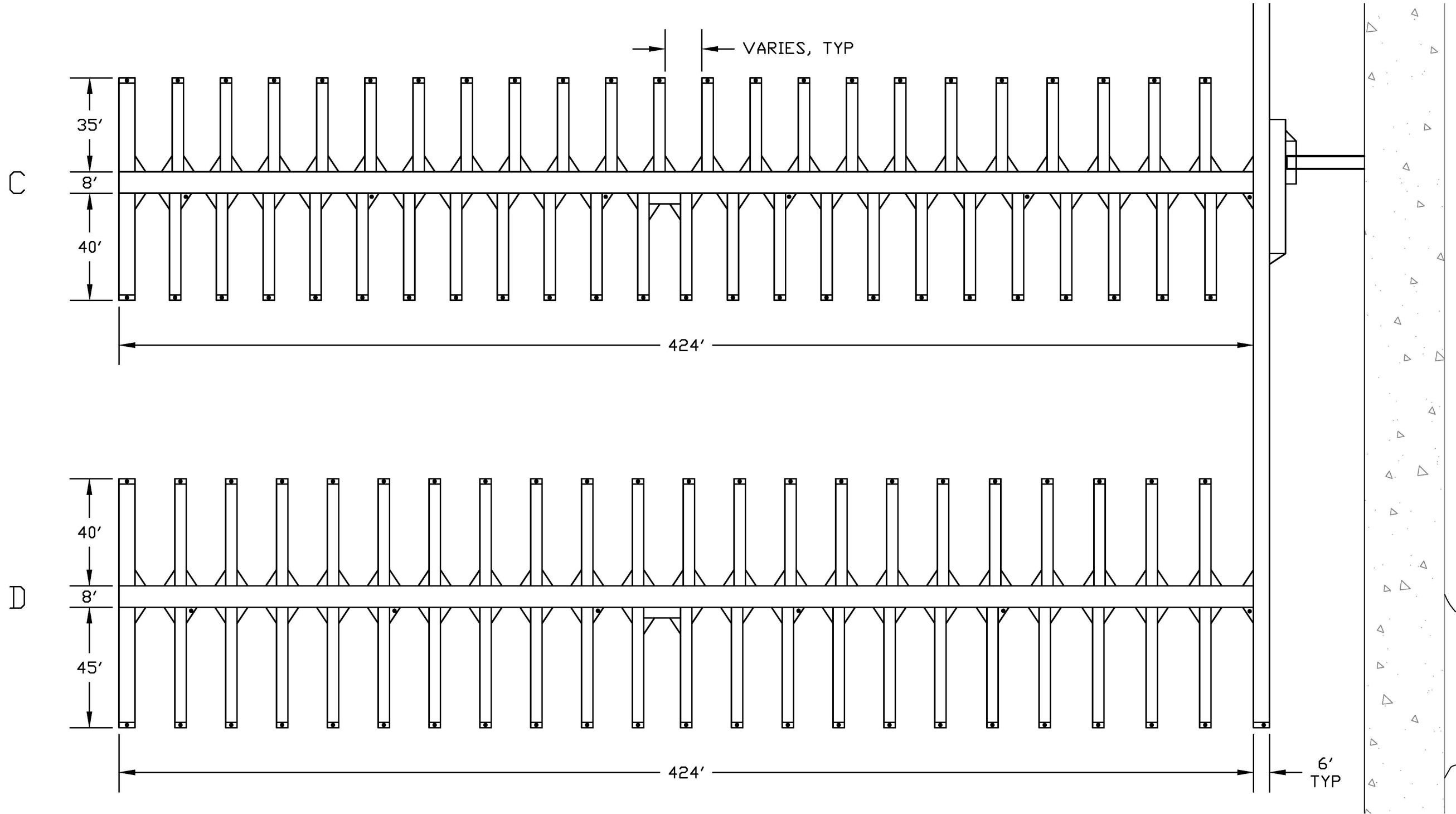
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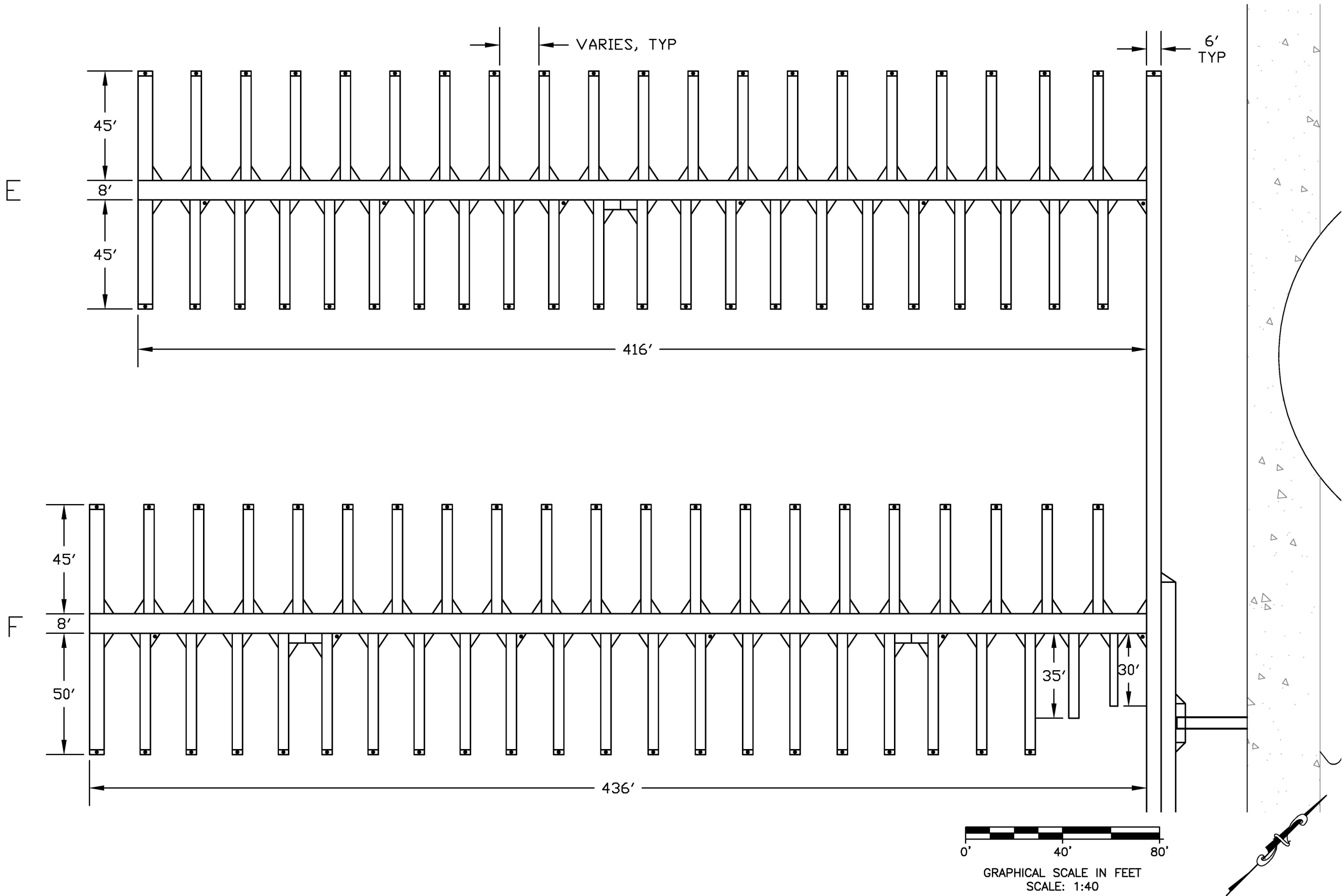
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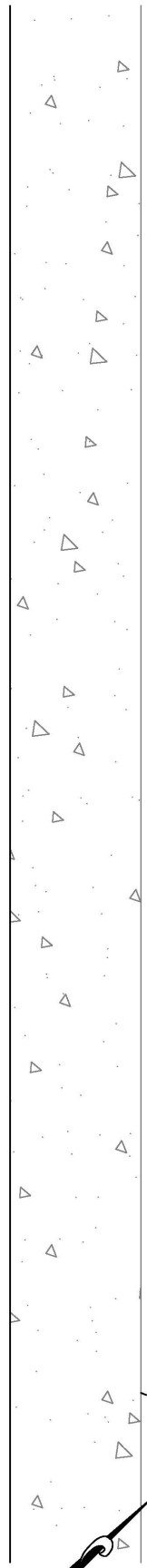
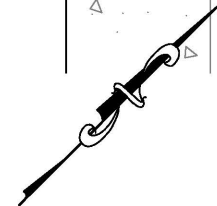
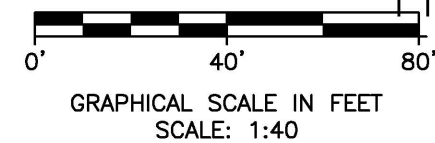
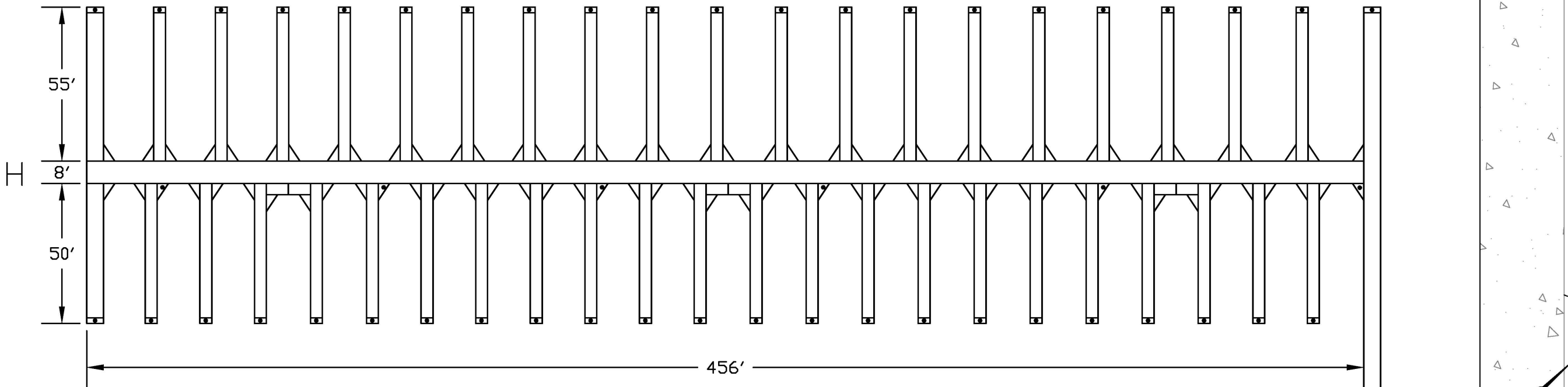
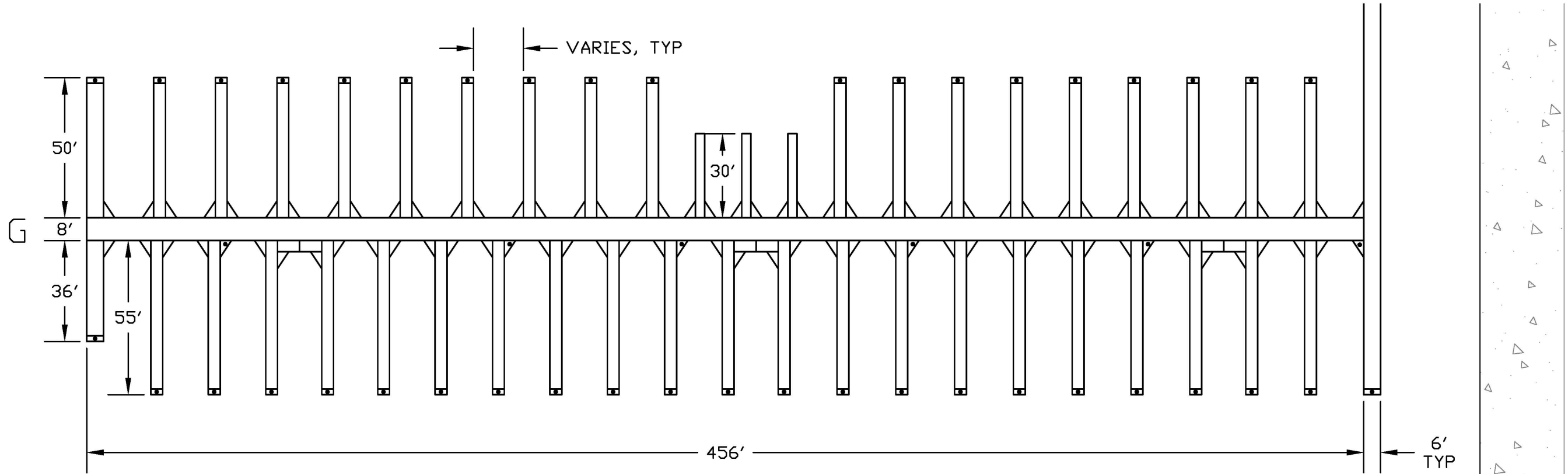
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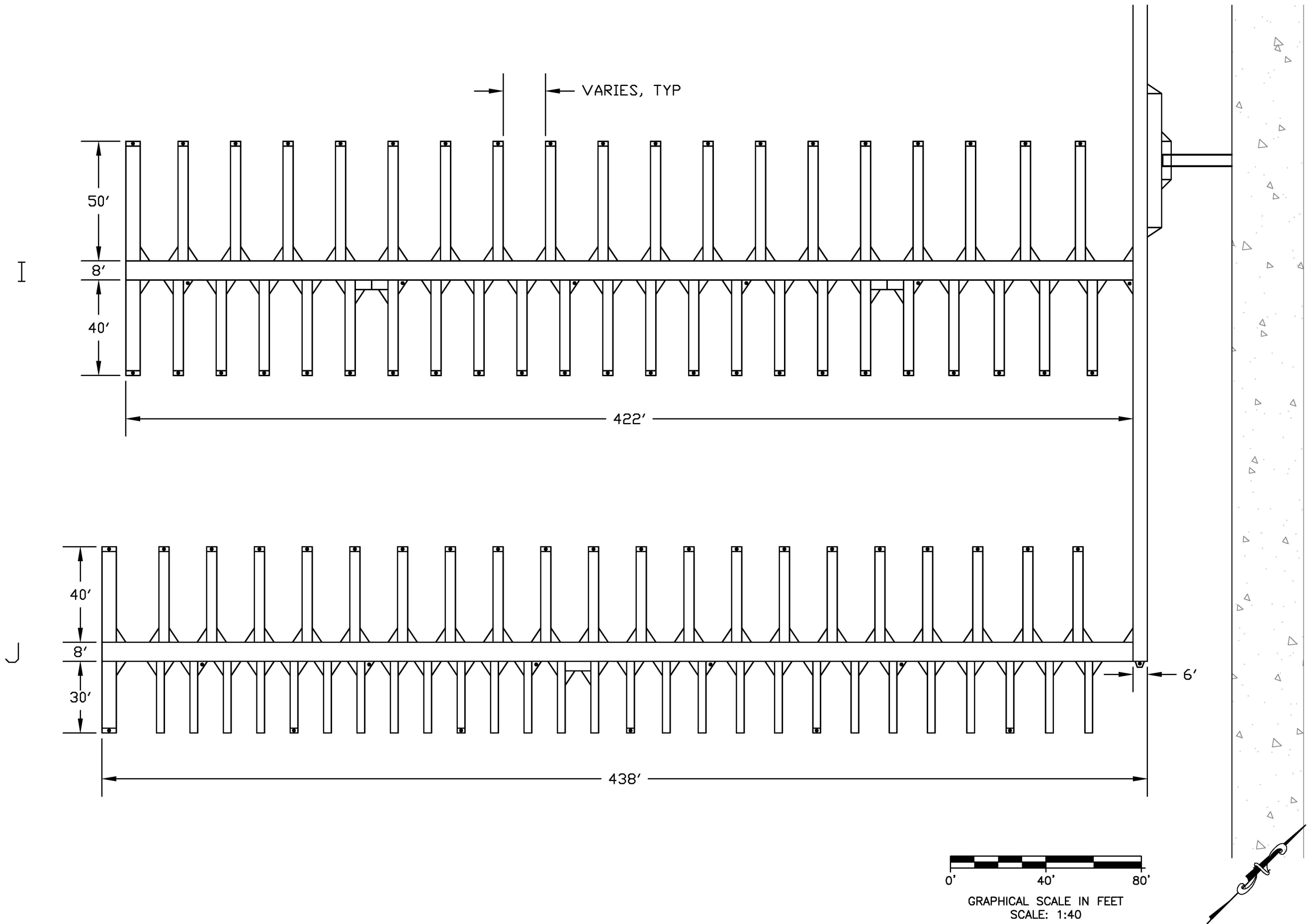
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SHEET NOTES

(SHEET SPECIFIC)

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|--|--|---|
| <p>1 REPAIR EXISTING GANGWAY
REPLACE CORRODED HARDWARE AND DETERIORATED LUMBER
(SEE DETAIL 5 & 8 SHEET 307)</p> <p>2 REMOVE PLYWOOD COVER & INSPECT STEEL ANGEL FRAMES (81)
REPLACE CORRODED AND DELAMINATED ANGLE FRAMES
REPLACE BROKEN OR DETERIORATED PLYWOOD COVERS
(SEE DETAILS 1 & 2 SHEET 302)</p> <p>3 REPLACE CORRODED AND DELAMINATED STEEL BRACKETS, TYP
(SEE DETAILS 3 & 6 SHEET 302)</p> <p>4 REPAIR EXISTING CONCRETE CRACKING & SPALLS ON ALL FLOATS
APPLY CORROSION INHIBITOR, SURFACE CRACK SEALER AND NON-SKID
SURFACE TO ALL FLOATS
(SEE SHEETS 002, 301 & 303)</p> <p>5 REMOVE COVER ON WALKWAY PILE GUIDE ASSEMBLIES (2)
REPLACE ONLY CORRODED, DETERIORATED OR DAMAGED COMPONENTS
(SEE DETAILS 6 & 7 SHEET 307)</p> | <p>6 REPLACE ALL 3/4" STEEL RODS USING TYPICAL ROD LAYOUT
(SEE DETAILS 4 & 5 SHEET 302)
(SEE DETAIL 1 SHEET 305 & DETAIL 1 SHEET 306)</p> <p>7 REPLACE RUB STRIPS AND CORNERS BUMPERS ON ALL
FINGERS & WALKWAYS
(SEE DETAIL 1 & 5 SHEET 304)</p> <p>8 REPLACE ALL CLEATS
(SEE DETAIL 1 & 5 SHEET 304)</p> <p>9 INSPECT & REPLACE SPLIT AND BROKEN WHALERS, TYP
(SEE DETAILS 2, 3 & 4 SHEET 304)
(SEE DETAIL 1 SHEET 306)</p> <p>10 REMOVE COVER ON END PILE GUIDE ASSEMBLIES (33)
REPLACE ONLY CORRODED, DELAMINATED AND DAMAGED
COMPONENTS
(SEE DETAILS 1 & 3 SHEET 307)</p> | <p>11 REMOVE COVER ON TRIANGLE PILE GUIDE ASSEMBLIES (7)
REPLACE ONLY CORRODED, DELAMINATED AND DAMAGED COMPONENTS
(SEE DETAILS 2 & 4 SHEET 307)</p> <p>12 REMOVE ALL CORNER ROLLER FENDERS WHERE PRESENT
DO NOT REPLACE
(SEE DETAIL 7 SHEET 302)</p> <p>13 INSPECT SIDE PILE GUIDE ASSEMBLIES (2)
REPLACE ONLY CORRODED, DELAMINATED AND DAMAGED COMPONENTS
(SEE DETAIL 9 SHEET 307)</p> <p>14 IDENTIFY & REPAIR MAJOR LISTING FLOATS, TYP
REPLACE WARPED WOOD WALERS</p> <p>15 REPLACE ALL STEEL RODS USING TYPICAL ROD LAYOUT
(SEE DETAILS 4 & 5 SHEET 302)
(SEE DETAIL 1 SHEET 305 & DETAIL 1 SHEET 306)</p> |
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**MARINA
DOCK REPAIR**

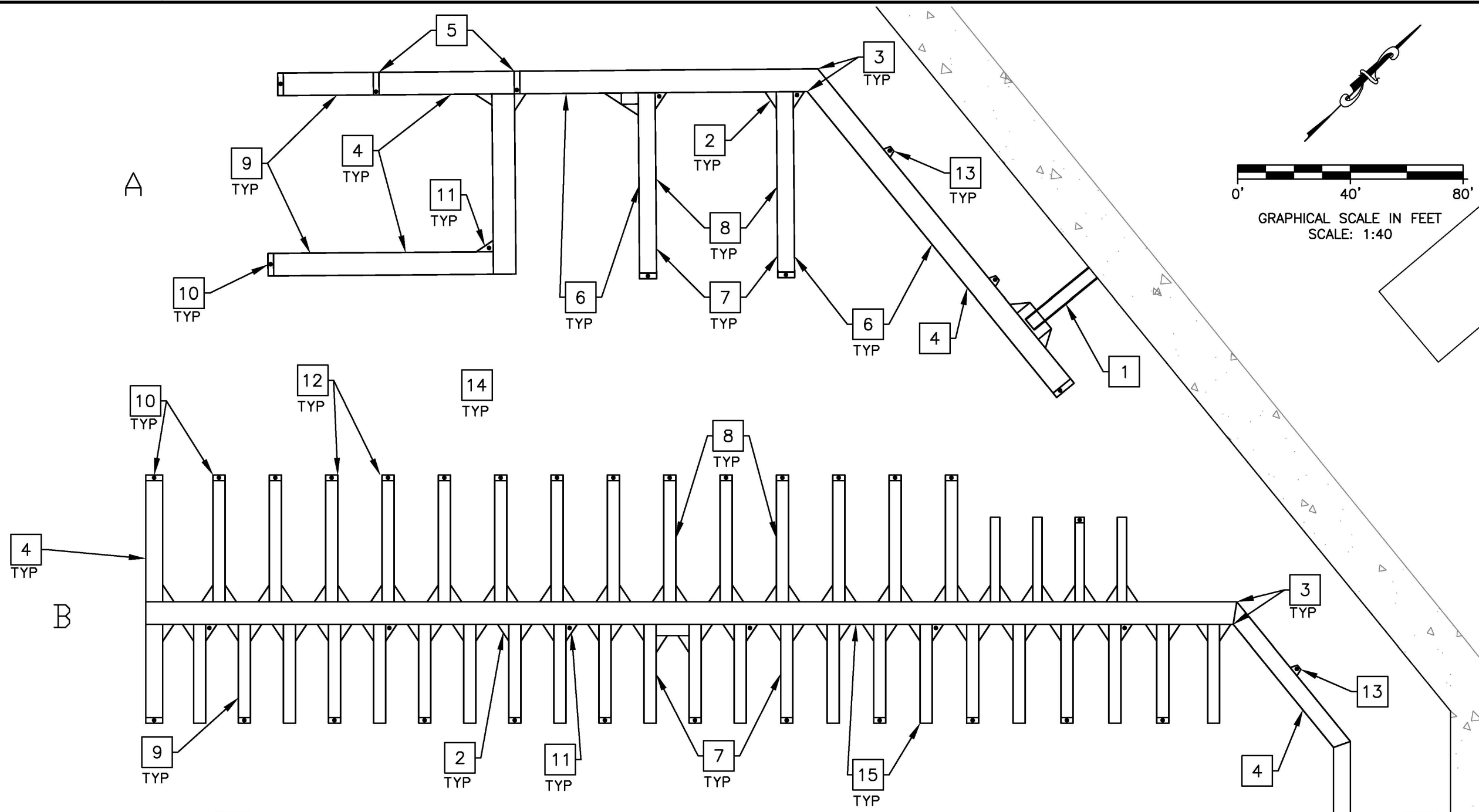
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**DOCK A & B
REPAIR PLAN**

201



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SHEET NOTES

(SHEET SPECIFIC)

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| <p>1 REPAIR EXISTING GANGWAY
REPLACE CORRODED HARDWARE AND DETERIORATED LUMBER
(SEE DETAIL 5 & 8 SHEET 307)</p> <p>2 REMOVE PLYWOOD COVER & INSPECT STEEL ANGEL FRAMES (172)
REPLACE CORRODED AND DELAMINATED ANGLE FRAMES
REPLACE BROKEN OR DETERIORATED PLYWOOD COVERS
(SEE DETAILS 1 & 2 SHEET 302)</p> <p>3 NOT USED</p> <p>4 REPAIR EXISTING CONCRETE CRACKING & SPALLS ON ALL FLOATS
APPLY CORROSION INHIBITOR, SURFACE CRACK SEALER AND
NON-SKID SURFACE TO ALL FLOATS
(SEE SHEETS 002, 301 & 303)</p> <p>5 REPLACE ALL END FINGER STEEL RODS
(SEE DETAILS 4 & 5 SHEET 302)
(SEE DETAIL 2 SHEET 306)</p> | <p>6 REPLACE ALL STEEL RODS USING TYPICAL ROD LAYOUT
(SEE DETAILS 4 & 5 SHEET 302)
(SEE DETAIL 1 SHEET 305 & DETAIL 1 SHEET 306)</p> <p>7 REPLACE RUB STRIPS AND CORNER BUMPERS
ON ALL FINGERS & WALKWAYS
(SEE DETAIL 1 & 5 SHEET 304)</p> <p>8 REPLACE ALL CLEATS
(SEE DETAIL 1 & 5 SHEET 304)</p> <p>9 INSPECT & REPLACE SPLIT AND BROKEN WHALERS, TYP
(SEE DETAILS 2, 3 & 4 SHEET 304)
(SEE DETAIL 1 SHEET 306)</p> <p>10 REMOVE COVER ON END PILE GUIDE ASSEMBLIES (92)
REPLACE ONLY CORRODED, DELAMINATED AND DAMAGED
COMPONENTS
(SEE DETAILS 1 & 3 SHEET 307)</p> | <p>11 REMOVE COVER ON TRIANGLE PILE GUIDE ASSEMBLIES (12)
REPLACE ONLY CORRODED, DELAMINATED AND DAMAGED COMPONENTS
(SEE DETAILS 2 & 4 SHEET 307)</p> <p>12 REMOVE ALL CORNER ROLLER FENDERS WHERE PRESENT
DO NOT REPLACE
(SEE DETAIL 7 SHEET 302)</p> <p>13 IDENTIFY & REPAIR MAJOR LISTING FLOATS, TYP
REPLACE WARPED WOOD WALERS</p> |
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ENGINEERING LLC
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greg@streamlinewest.com



Expires: 12/31/15

NOT FOR CONSTRUCTION

PROJECT NUMBER: 14014

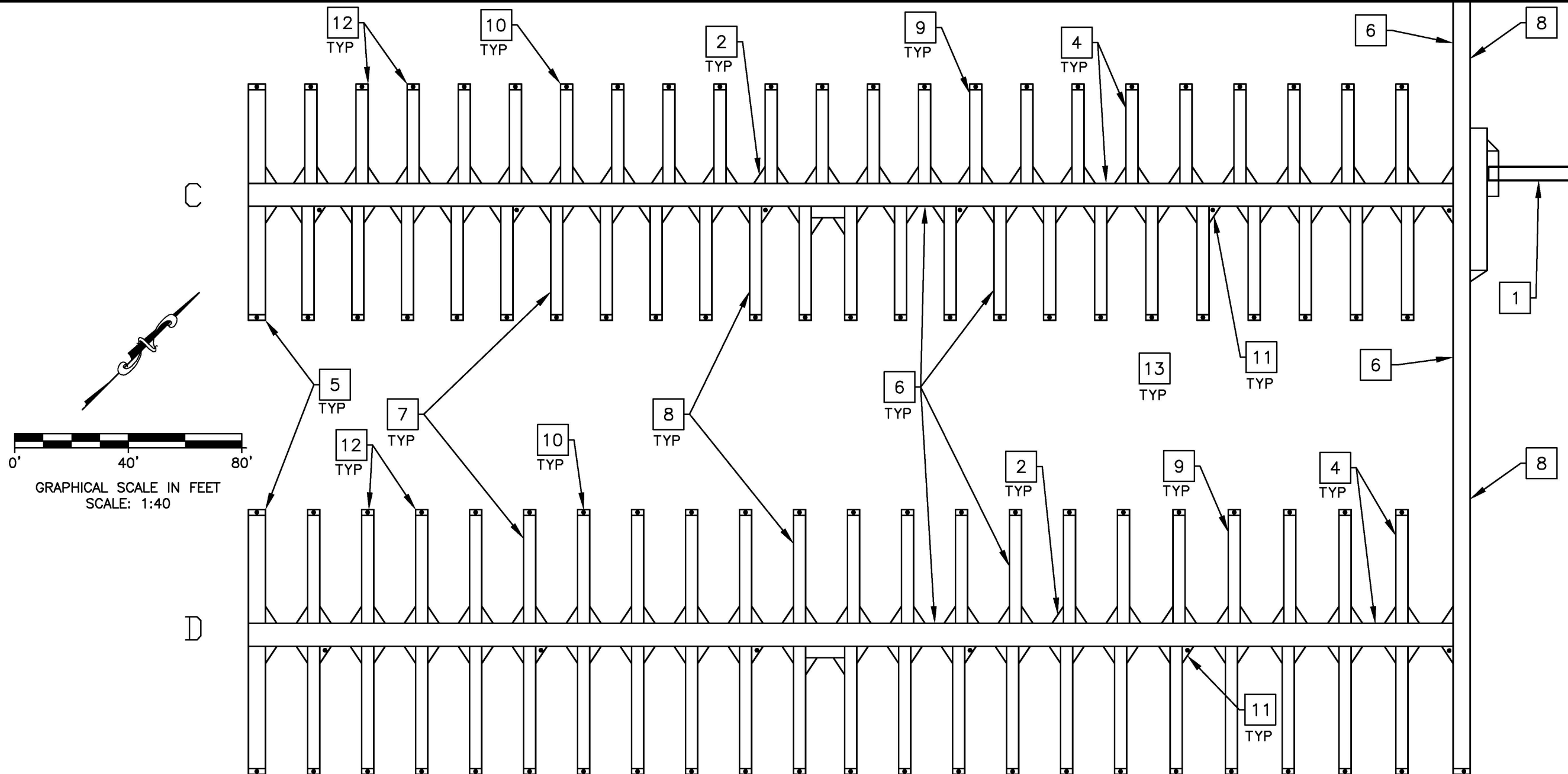
MARINA DOCK REPAIR

REVISION:

DRAWN BY: GSR
ISSUE DATE: June 22, 2015
FILE NAME: Marquis Repair Plans.dwg

SHEET:
DOCK C & D REPAIR PLAN

202



SHEET NOTES

(SHEET SPECIFIC)

- | | | |
|--|--|---|
| <p>1 REMOVE PLYWOOD COVER & INSPECT STEEL ANGEL FRAMES (78)
REPLACE CORRODED AND DELAMINATED ANGLE FRAMES
REPLACE BROKEN OR DETERIORATED PLYWOOD COVERS
(SEE DETAILS 1 & 2 SHEET 302)</p> <p>2 NOT USED</p> <p>3 REPAIR EXISTING CONCRETE CRACKING & SPALLS ON ALL FLOATS
APPLY CORROSION INHIBITOR, SURFACE CRACK SEALER AND
NON-SKID SURFACE TO ALL FLOATS
(SEE SHEETS 002, 301 & 303)</p> <p>4 REPLACE END FINGER STEEL RODS
(SEE DETAILS 4 & 5 SHEET 302)
(SEE DETAIL 2 SHEET 306)</p> | <p>5 REPLACE ALL STEEL RODS USING TYPICAL ROD LAYOUT
(SEE DETAILS 4 & 5 SHEET 302)
(SEE DETAIL 1 SHEET 305 & DETAIL 1 SHEET 306)</p> <p>6 REPLACE RUB STRIP ALONG ALL SLIPS & WALKWAYS
(SEE DETAIL 1 & 5 SHEET 304)</p> <p>7 REPLACE ALL CLEATS
(SEE DETAIL 1 & 5 SHEET 304)</p> <p>8 INSPECT & REPLACE SPLIT AND BROKEN WHALERS, TYP
(SEE DETAILS 2, 3 & 4 SHEET 304)
(SEE DETAIL 1 SHEET 306)</p> <p>9 REMOVE COVER ON END PILE GUIDE ASSEMBLIES (43)
REPLACE ONLY CORRODED, DELAMINATED AND DAMAGED
COMPONENTS
(SEE DETAILS 1 & 3 SHEET 307)</p> | <p>10 REMOVE COVER ON TRIANGLE PILE GUIDE ASSEMBLIES (6)
REPLACE ONLY CORRODED, DELAMINATED AND DAMAGED COMPONENTS
(SEE DETAILS 2 & 4 SHEET 307)</p> <p>11 REMOVE ALL CORNER ROLLER FENDERS WHERE PRESENT
DO NOT REPLACE
(SEE DETAIL 7 SHEET 302)</p> <p>12 IDENTIFY & REPAIR MAJOR LISTING FLOATS, TYP
REPLACE WARPED WOOD WALERS</p> |
|--|--|---|

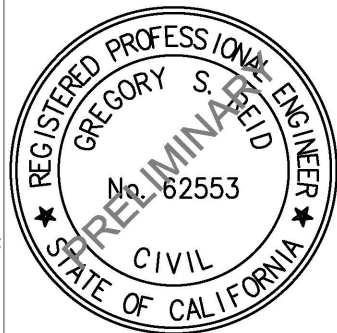
CLIENT:



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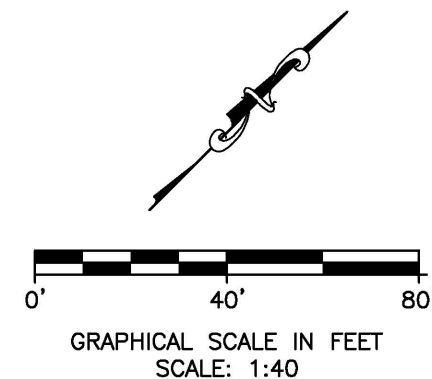
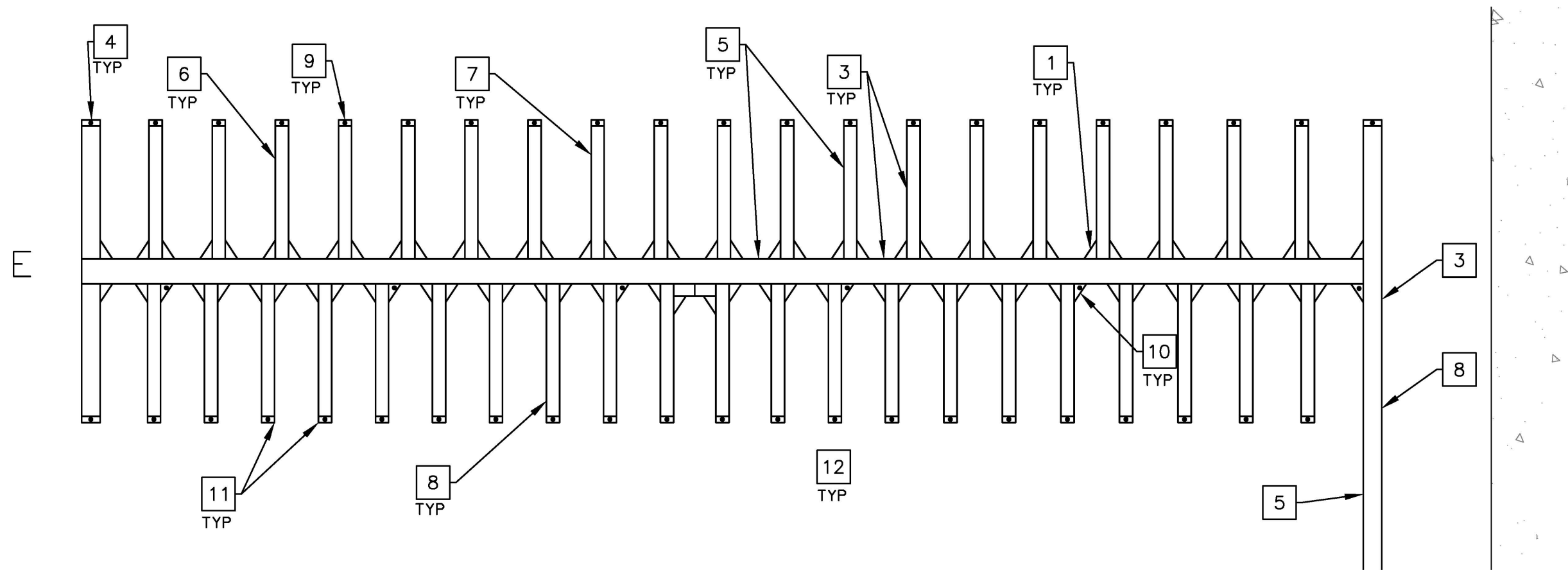
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**MARINA
DOCK REPAIR**

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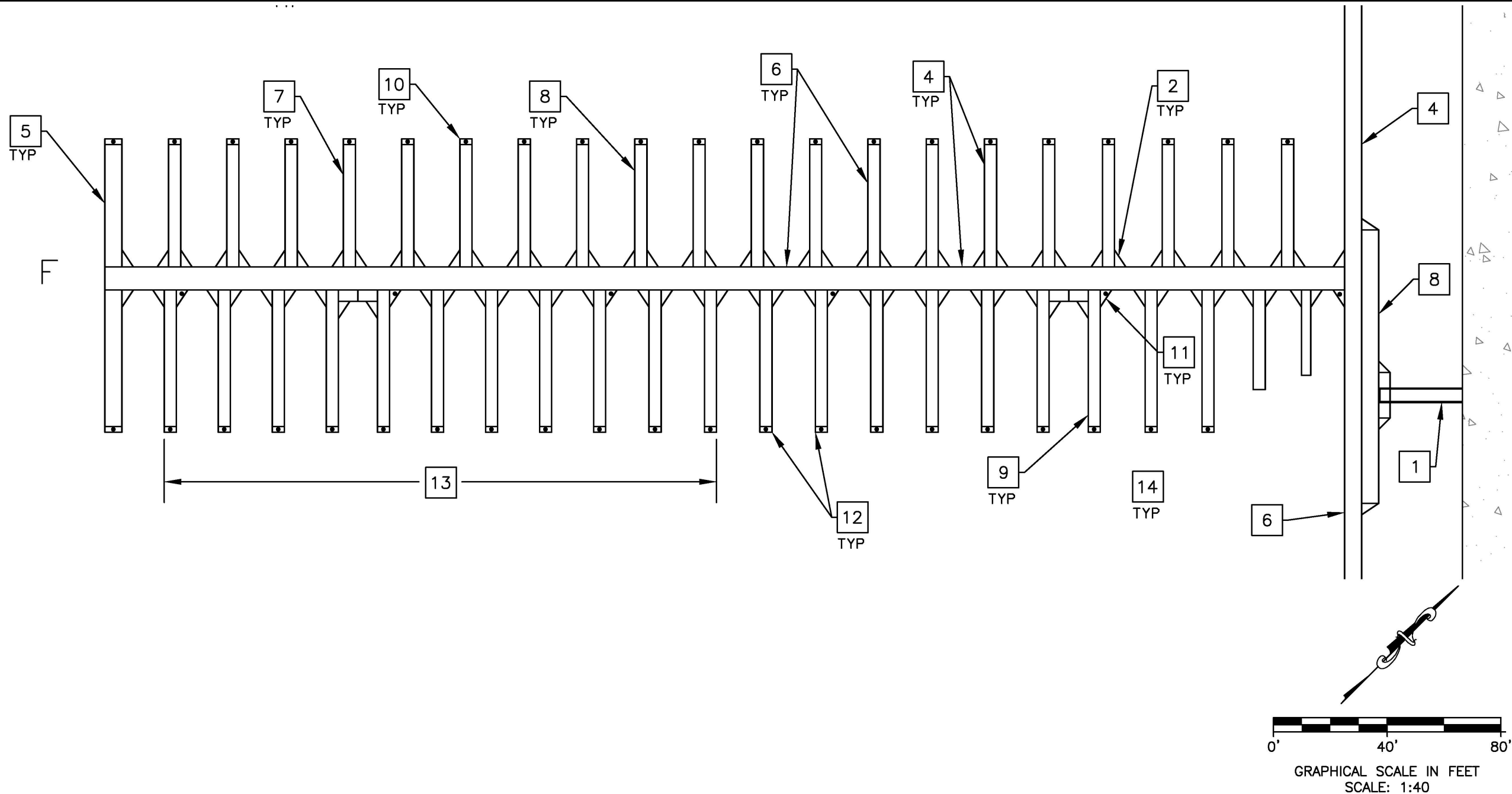
SHEET:
**DOCK E REPAIR
PLAN**



SHEET NOTES

(SHEET SPECIFIC)

- | | | |
|---|--|---|
| <p>1 REPAIR EXISTING GANGWAY
REPLACE CORRODED HARDWARE AND DETERIORATED LUMBER
(SEE DETAIL 5 & 8 SHEET 307)</p> <p>2 REMOVE PLYWOOD COVER & INSPECT STEEL ANGEL FRAMES (86)
REPLACE CORRODED AND DELAMINATED ANGLE FRAMES
REPLACE BROKEN OR DETERIORATED PLYWOOD COVERS
(SEE DETAILS 1 & 2 SHEET 302)</p> <p>3 NOT USED</p> <p>4 REPAIR EXISTING CONCRETE CRACKING & SPALLS ON ALL FLOATS
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NON-SKID SURFACE TO ALL FLOATS
(SEE SHEETS 002, 301 & 303)</p> <p>5 REPLACE END FINGER STEEL RODS
(SEE DETAILS 4 & 5 SHEET 302)
(SEE DETAIL 2 SHEET 306)</p> | <p>6 REPLACE ALL STEEL RODS USING TYPICAL ROD LAYOUT
EXCEPT WHERE NOTED OTHERWISE
(SEE DETAILS 4 & 5 SHEET 302)
(SEE DETAIL 1 SHEET 305 & DETAIL 1 SHEET 306)</p> <p>7 REPLACE RUB STRIP & CORNER BUMPERS
ON ALL SLIPS & WALKWAYS
(SEE DETAIL 1 & 5 SHEET 304)</p> <p>8 REPLACE ALL CLEATS
(SEE DETAIL 1 & 5 SHEET 304)</p> <p>9 INSPECT & REPLACE SPLIT AND BROKEN WHALERS, TYP
(SEE DETAILS 2, 3 & 4 SHEET 304)
(SEE DETAIL 1 SHEET 306)</p> <p>10 REMOVE COVER ON END PILE GUIDE ASSEMBLIES (42)
REPLACE ONLY CORRODED, DELAMINATED AND DAMAGED COMPONENTS
(SEE DETAILS 1 & 3 SHEET 307)</p> | <p>11 DISASSEMBLE EXISTING TRIANGLE PILE GUIDE ASSEMBLIES (6)
REPLACE CORRODED, DELAMINATED AND DAMAGED COMPONENTS
(SEE DETAILS 2 & 4 SHEET 307)</p> <p>12 REMOVE ALL CORNER ROLLER FENDERS WHERE PRESENT
DO NOT REPLACE
(SEE DETAIL 7 SHEET 302)</p> <p>13 REPLACE STEEL RODS USING ENHANCED ROD LAYOUT
(SEE DETAILS 4 & 5 SHEET 302)
(SEE DETAIL 2 SHEET 305 & DETAIL 1 SHEET 306)</p> <p>14 IDENTIFY & REPAIR MAJOR LISTING FLOATS, TYP
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|---|--|---|



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PROJECT NUMBER: 14014

**MARINA
DOCK REPAIR**

REVISION:

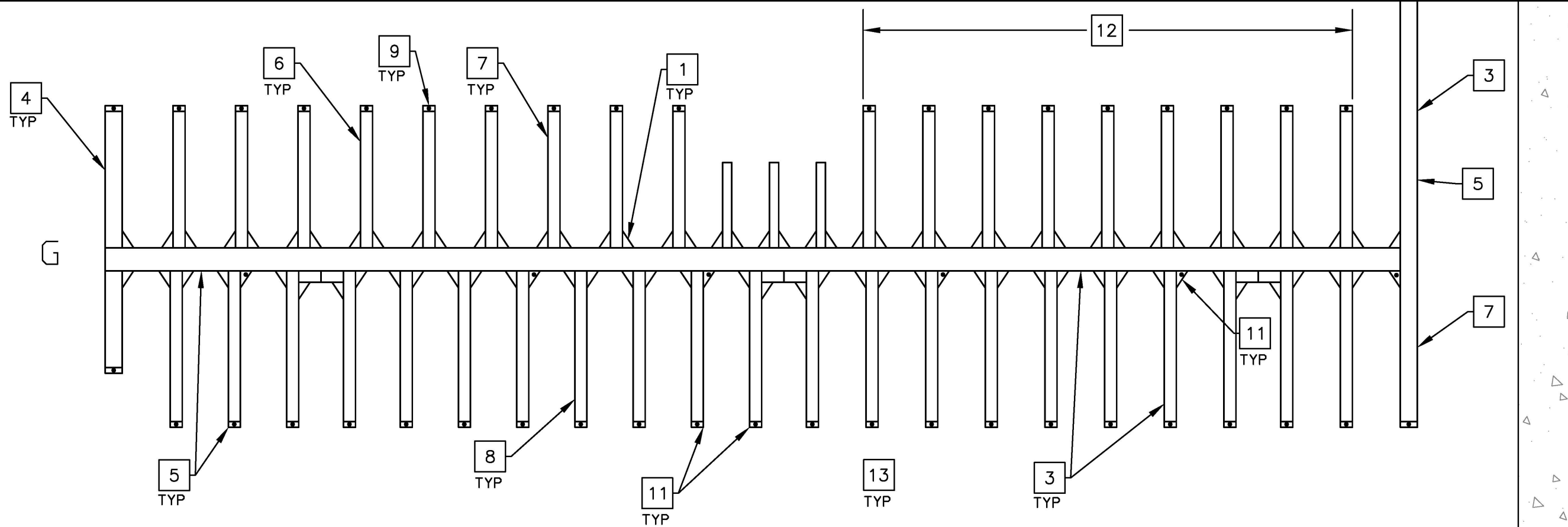
DRAWN BY: GSR
ISSUE DATE: June 22, 2015
FILE NAME: Marquis Repair Plans.dwg

SHEET:
**DOCK F REPAIR
PLAN**

SHEET NOTES

(SHEET SPECIFIC)

- | | | |
|--|---|--|
| <p>1 REMOVE PLYWOOD COVER & INSPECT STEEL ANGEL FRAMES (86)
REPLACE CORRODED AND DELAMINATED ANGLE FRAMES
REPLACE BROKEN OR DETERIORATED PLYWOOD COVERS
(SEE DETAILS 1 & 2 SHEET 302)</p> <p>2 REPLACE CORRODED AND DELAMINATED STEEL BRACKETS, TYP
(SEE DETAILS 3 & 6 SHEET 302)</p> <p>3 REPAIR EXISTING CONCRETE CRACKING & SPALLS ON ALL FLOATS
APPLY CORROSION INHIBITOR, SURFACE CRACK SEALER AND
NON-SKID SURFACE TO ALL FLOATS
(SEE SHEETS 002, 301 & 303)</p> <p>4 REPLACE END FINGER STEEL RODS
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(SEE DETAIL 2 SHEET 306)</p> | <p>5 REPLACE ALL STEEL RODS USING ENHANCED ROD LAYOUT
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(SEE DETAILS 4 & 5 SHEET 302)
(SEE DETAIL 2 SHEET 305 & DETAIL 1 SHEET 306)</p> <p>6 REPLACE RUB STRIP & CORNER BUMPERS
ON ALL FINGERS & WALKWAYS
(SEE DETAIL 1 & 5 SHEET 304)</p> <p>7 REPLACE ALL CLEATS
(SEE DETAIL 1 & 5 SHEET 304)</p> <p>8 INSPECT & REPLACE SPLIT AND BROKEN WHALERS, TYP
(SEE DETAILS 2, 3 & 4 SHEET 304)
(SEE DETAIL 1 SHEET 306)</p> <p>9 REMOVE COVER ON END PILE GUIDE ASSEMBLIES (43)
REPLACE ONLY CORRODED, DELAMINATED AND DAMAGED
COMPONENTS
(SEE DETAILS 1 & 3 SHEET 307)</p> | <p>10 REMOVE COVER ON TRIANGLE PILE GUIDE ASSEMBLIES (6)
REPLACE ONLY CORRODED, DELAMINATED AND DAMAGED COMPONENTS
(SEE DETAILS 2 & 4 SHEET 307)</p> <p>11 REMOVE ALL CORNER ROLLER FENDERS WHERE PRESENT
DO NOT REPLACE
(SEE DETAIL 7 SHEET 302)</p> <p>12 REPLACE STEEL RODS USING TYPICAL ROD LAYOUT
(SEE DETAILS 4 & 5 SHEET 302)
(SEE DETAIL 1 SHEET 305 & DETAIL 1 SHEET 306)</p> <p>13 IDENTIFY & REPAIR MAJOR LISTING FLOATS, TYP
REPLACE WARPED WOOD WALERS</p> |
|--|---|--|



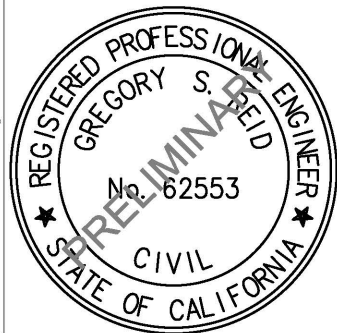
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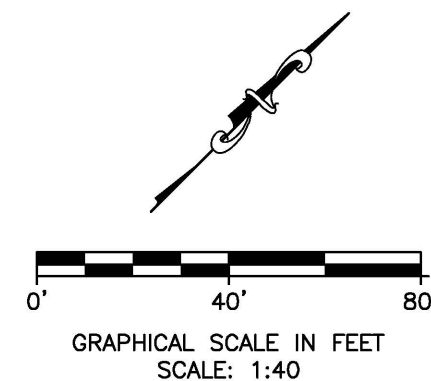
PROJECT NUMBER: 14014

MARINA DOCK REPAIR

REVISION:

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SHEET:
DOCK G REPAIR PLAN



SHEET NOTES

(SHEET SPECIFIC)

- | | | |
|--|--|--|
| <p>1 REMOVE PLYWOOD COVER & INSPECT STEEL ANGEL FRAMES (80)
REPLACE CORRODED AND DELAMINATED ANGLE FRAMES
REPLACE BROKEN OR DETERIORATED PLYWOOD COVERS
(SEE DETAILS 1 & 2 SHEET 302)</p> <p>2 NOT USED</p> <p>3 REPAIR EXISTING CONCRETE CRACKING & SPALLS ON ALL FLOATS
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(SEE DETAILS 4 & 5 SHEET 302)
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(SEE DETAIL 1 & 5 SHEET 304)</p> <p>7 REPLACE ALL CLEATS
(SEE DETAIL 1 & 5 SHEET 304)</p> <p>8 INSPECT & REPLACE SPLIT AND BROKEN WHALERS, TYP
(SEE DETAILS 2, 3 & 4 SHEET 304)
(SEE DETAIL 1 SHEET 306)</p> <p>9 REMOVE COVER ON END PILE GUIDE ASSEMBLIES (44)
REPLACE ONLY CORRODED, DELAMINATED AND DAMAGED
COMPONENTS
(SEE DETAILS 1 & 3 SHEET 307)</p> | <p>10 REMOVE COVER ON TRIANGLE PILE GUIDE ASSEMBLIES (6)
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REPLACE WARPED WOOD WALERS</p> |
|--|--|--|

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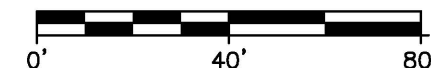
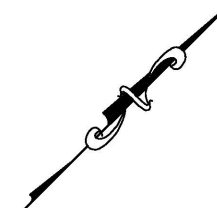
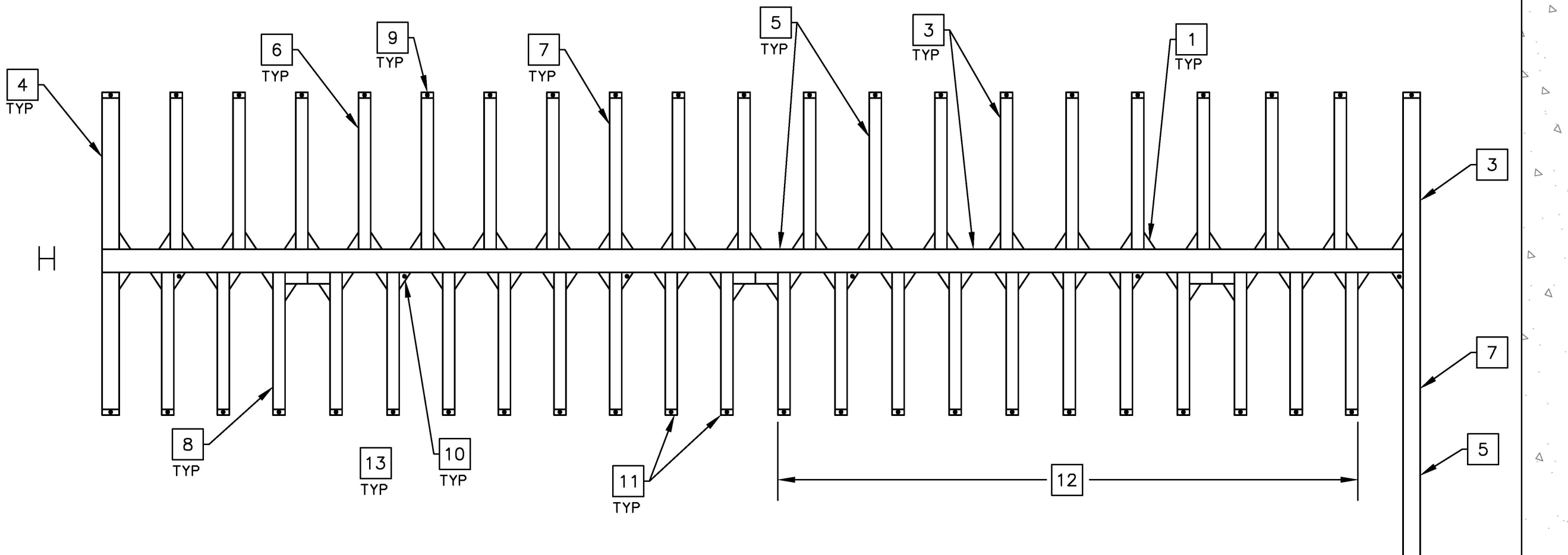
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**MARINA
DOCK REPAIR**

REVISION:

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SHEET:
**DOCK H REPAIR
PLAN**



GRAPHICAL SCALE IN FEET
SCALE: 1:40

SHEET NOTES

(SHEET SPECIFIC)

- | | | |
|---|--|---|
| <p>1 REPAIR EXISTING GANGWAY
REPLACE CORRODED HARDWARE AND DETERIORATED LUMBER
(SEE DETAIL 5 & 8 SHEET 307)</p> <p>2 REMOVE PLYWOOD COVER & INSPECT STEEL ANGEL FRAMES (82)
REPLACE CORRODED AND DELAMINATED ANGLE FRAMES
REPLACE BROKEN OR DETERIORATED PLYWOOD COVERS
(SEE DETAILS 1 & 2 SHEET 302)</p> <p>3 NOT USED</p> <p>4 REPAIR EXISTING CONCRETE CRACKING & SPALLS ON ALL FLOATS
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EXCEPT WHERE NOTED OTHERWISE
(SEE DETAILS 4 & 5 SHEET 302)
(SEE DETAIL 1 SHEET 305 & DETAIL 1 SHEET 306)</p> <p>7 REPLACE RUB STRIP & CORNER BUMPERS
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(SEE DETAILS 2, 3 & 4 SHEET 304)
(SEE DETAIL 1 SHEET 306)</p> <p>10 REMOVE COVER ON END PILE GUIDE ASSEMBLIES (42)
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COMPONENTS
(SEE DETAILS 1 & 3 SHEET 307)</p> | <p>11 REMOVE COVER ON TRIANGLE PILE GUIDE ASSEMBLIES (6)
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(SEE DETAIL 2 SHEET 305 & DETAIL 1 SHEET 306)</p> <p>14 IDENTIFY & REPAIR MAJOR LISTING FLOATS, TYP
REPLACE WARPED WOOD WALERS</p> |
|---|--|---|

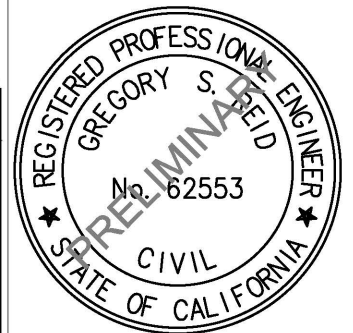
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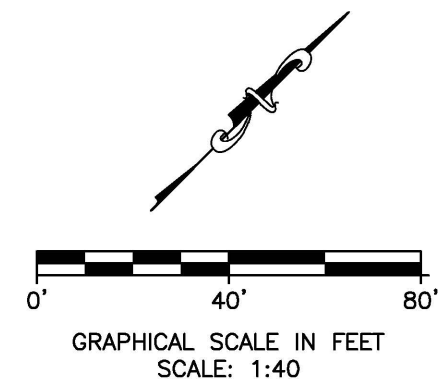
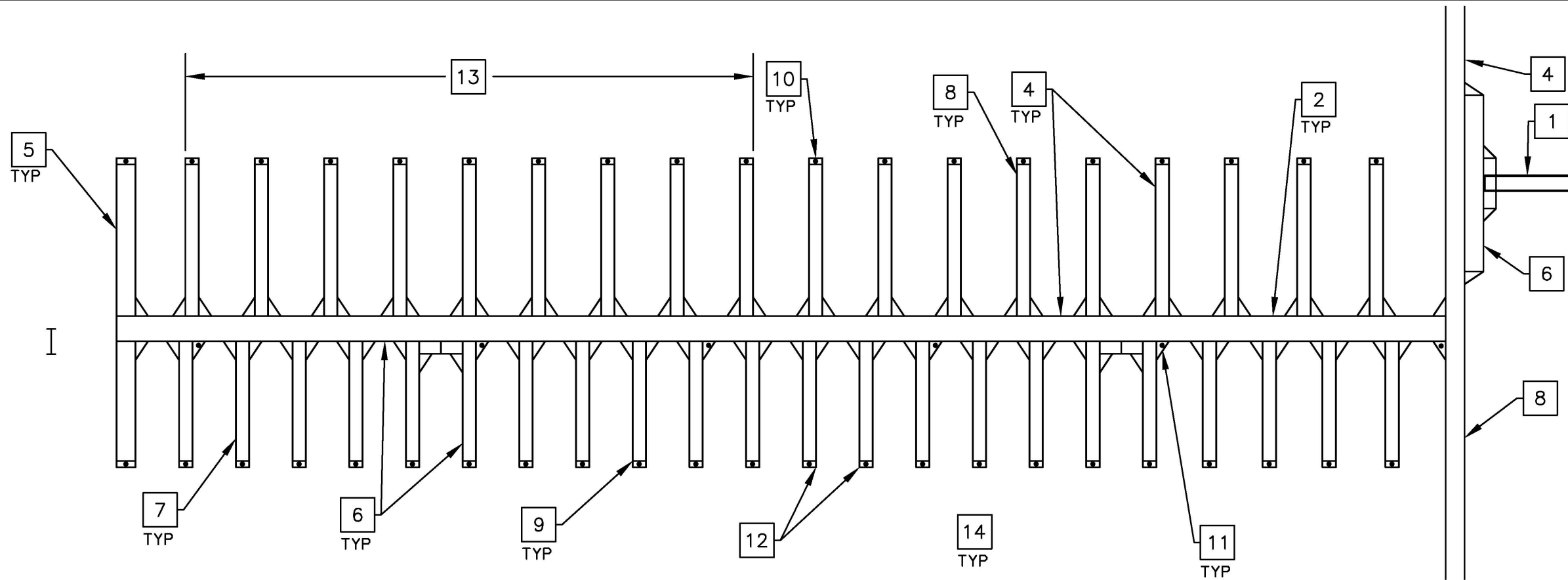
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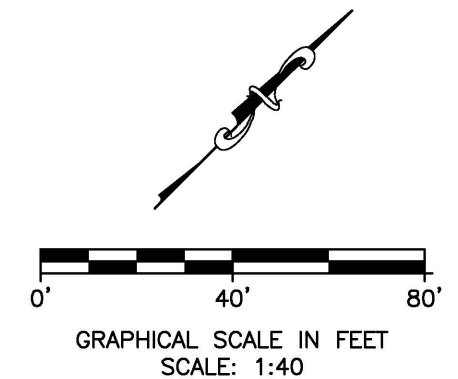
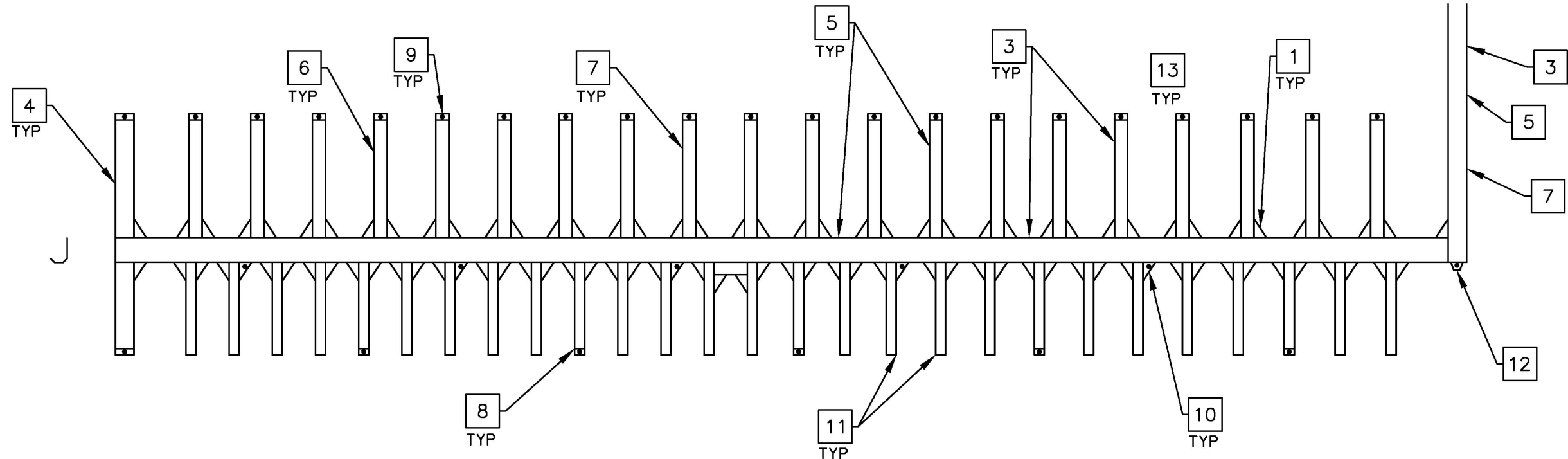
SHEET:
DOCK I REPAIR PLAN



SHEET NOTES

(SHEET SPECIFIC)

- | | | |
|--|---|--|
| <p>1 REMOVE PLYWOOD COVER & INSPECT STEEL ANGEL FRAMES (92)
REPLACE CORRODED AND DELAMINATED ANGLE FRAMES
REPLACE BROKEN OR DETERIORATED PLYWOOD COVERS
(SEE DETAILS 1 & 2 SHEET 302)</p> <p>2 NOT USED</p> <p>3 REPAIR EXISTING CONCRETE CRACKING & SPALLS ON ALL FLOATS
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(SEE DETAIL 2 SHEET 306)</p> | <p>5 REPLACE ALL STEEL RODS USING TYPICAL ROD LAYOUT
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(SEE DETAIL 1 SHEET 305 & DETAIL 1 SHEET 306)</p> <p>6 REPLACE RUB STRIPS & CORNER BUMPERS
ON ALL SLIPS & WALKWAYS
(SEE DETAIL 1 & 5 SHEET 304)</p> <p>7 REPLACE ALL CLEATS
(SEE DETAIL 1 & 5 SHEET 304)</p> <p>8 INSPECT & REPLACE SPLIT AND BROKEN WHALERS, TYP
(SEE DETAILS 2, 3 & 4 SHEET 304)
(SEE DETAIL 1 SHEET 306)</p> <p>9 REMOVE COVER ON END PILE GUIDE ASSEMBLIES (27)
REPLACE ONLY CORRODED, DELAMINATED AND DAMAGED
COMPONENTS
(SEE DETAILS 1 & 3 SHEET 307)</p> | <p>10 REMOVE COVER ON TRIANGLE PILE GUIDE ASSEMBLIES (5)
REPLACE ONLY CORRODED, DELAMINATED AND DAMAGED COMPONENTS
(SEE DETAILS 2 & 4 SHEET 307)</p> <p>11 REMOVE ALL CORNER ROLLER FENDERS WHERE PRESENT
DO NOT REPLACE
(SEE DETAIL 7 SHEET 302)</p> <p>12 INSPECT SIDE PILE GUIDE ASSEMBLIES (1)
REPLACE CORRODED, DELAMINATED AND DAMAGED COMPONENTS
(SEE DETAIL 9 SHEET 307)</p> <p>13 IDENTIFY & REPAIR MAJOR LISTING FINGERS, TYP
REPLACE WARPED WOOD WALERS</p> |
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**MARINA
DOCK REPAIR**

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SHEET:
**DOCK J REPAIR
PLAN**

208

CLIENT:



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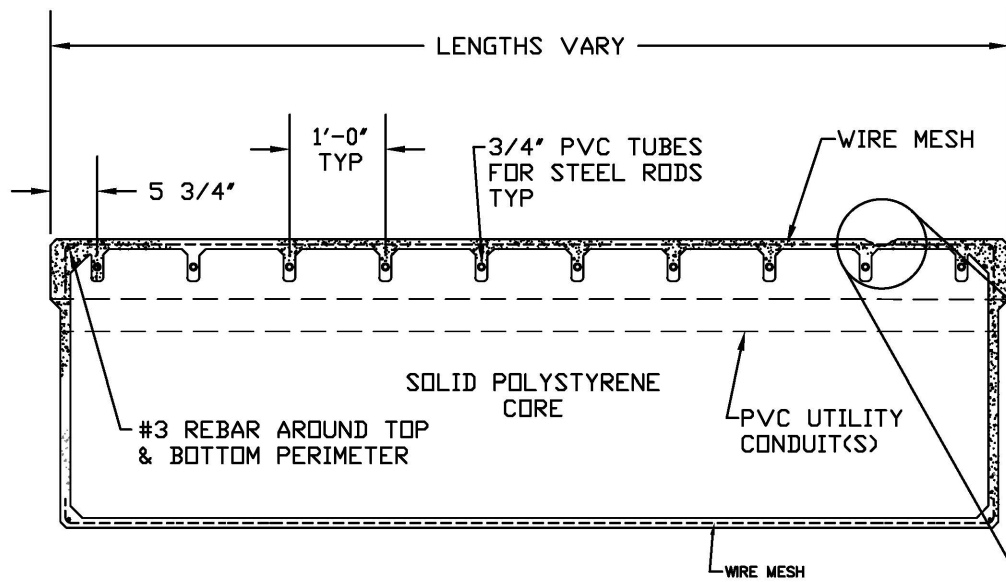
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MARINA DOCK REPAIR

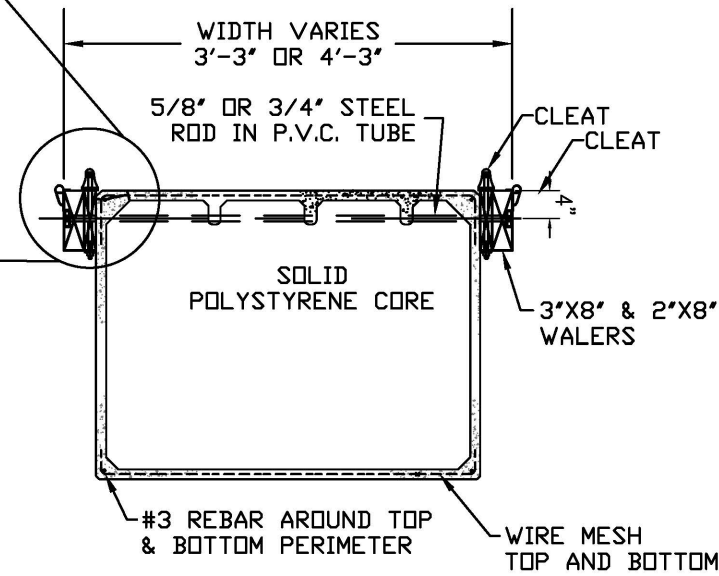
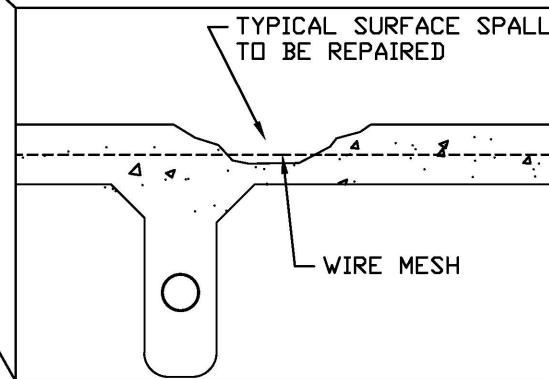
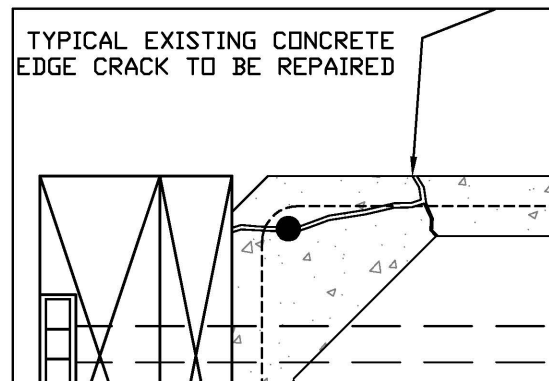
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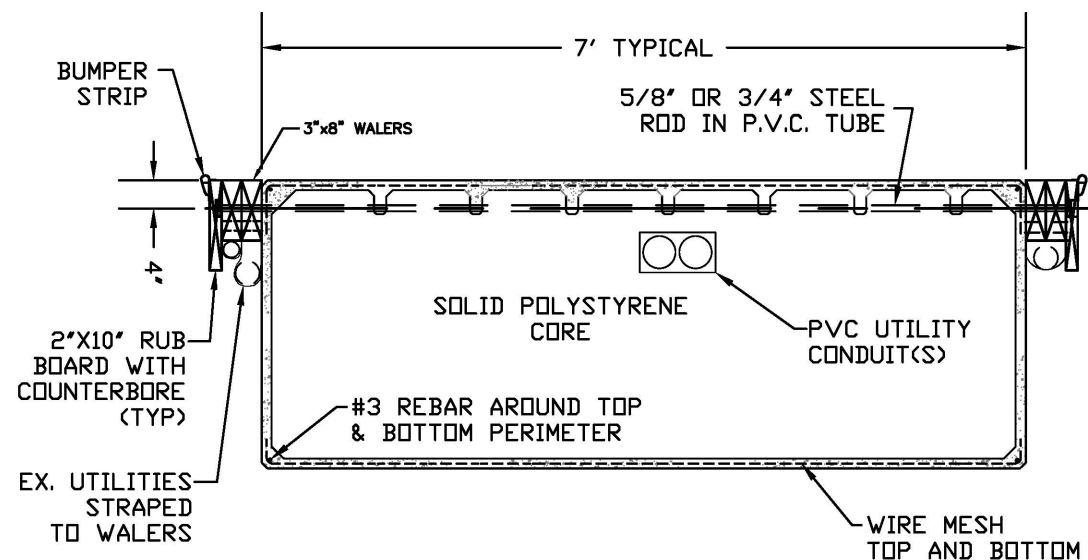
SHEET:
EXISTING DOCK SECTIONS



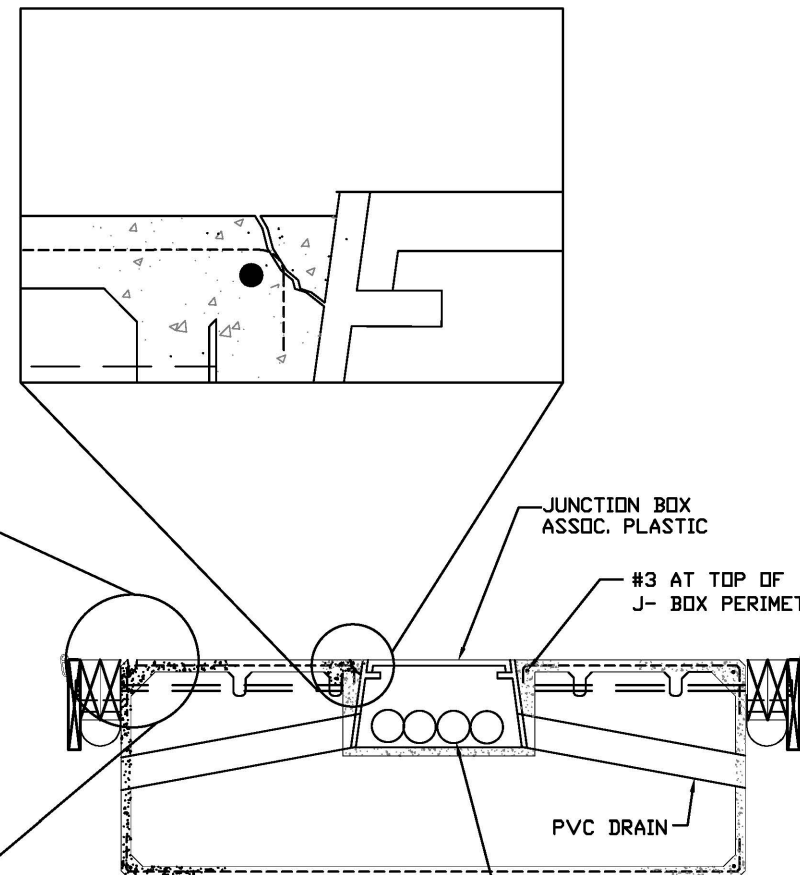
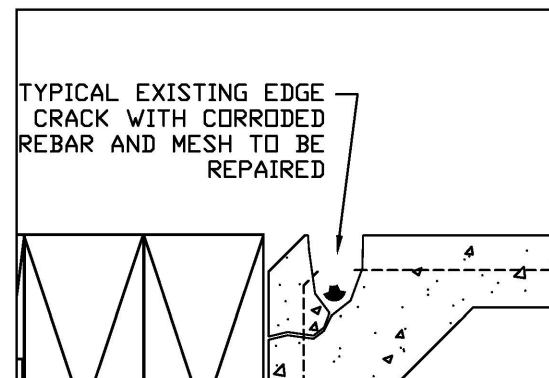
LONGITUDINAL WALKWAY SECTION 1
SCALE: 1/2" = 1'-0"



FINGER SECTION 3
SCALE: 1/2" = 1'-0"



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



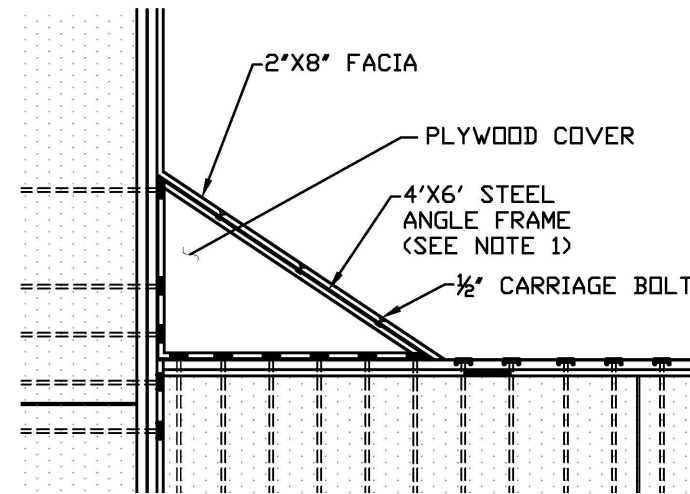
WALKWAY SECTION @ J-BOX 1
SCALE: 1/2" = 1'-0"

GENERAL NOTES

1. SEE THE INTER-CONTINENTAL MARINA - NAVY FIELD DESIGN PLANS BY BELLINGHAM MARINE DATED 8-23-82 FOR ADDITIONAL INFORMATION INCLUDING STEEL ROD, BRACKET AND FRAME DETAILS & DIMENSIONS. FIELD VERIFY ACTUAL DETAILS AND DIMENSIONS PRIOR TO FABRICATION.

GENERAL NOTES

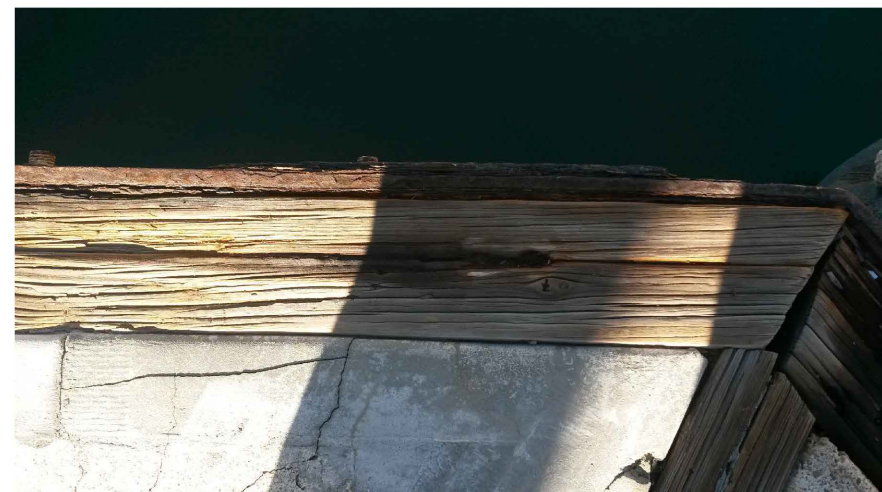
1. FIELD VERIFY ANGLE DIMENSIONS. 4'X4' ANGLES USED IN SOME LOCATIONS.



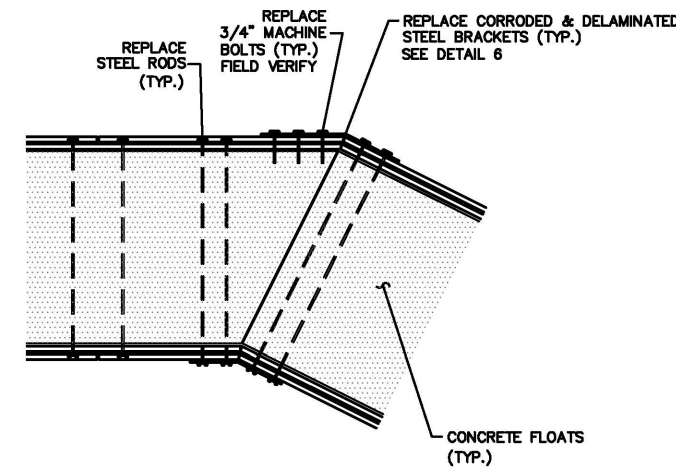
TYPICAL STEEL ANGLE FRAME REPAIR ①
SCALE: 3" = 1'-0"



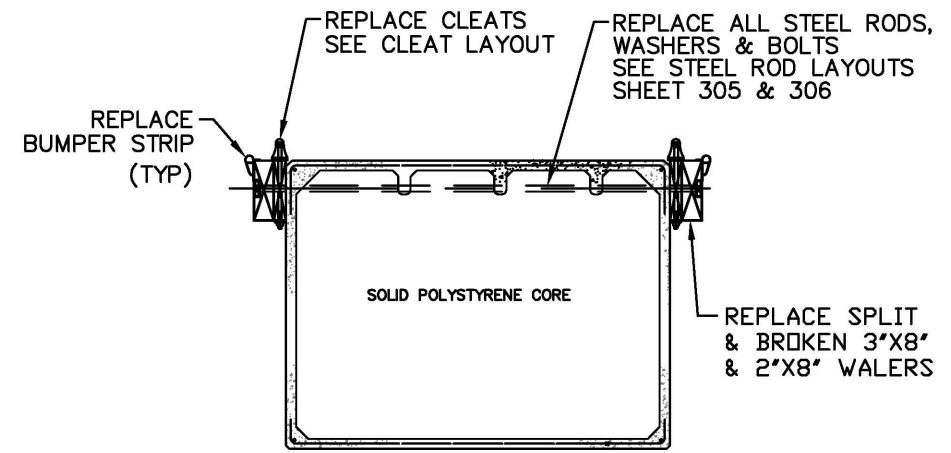
CORRODED AND DELAMINATED ANGLE FRAME ②



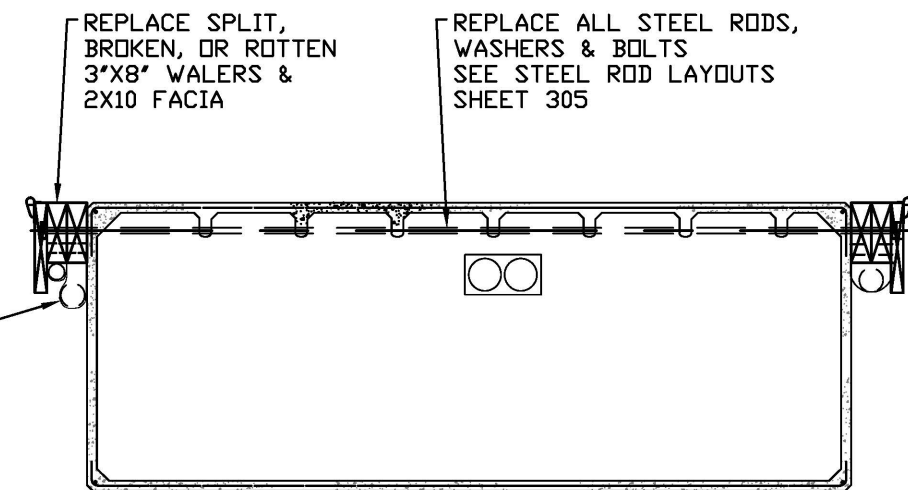
CORRODED AND DELAMINATED STEEL BRACKET ③



TYPICAL STEEL BRACKET REPAIR ⑥
SCALE: 1-1/2" = 1'-0"



FINGER STEEL ROD & WALER REPAIRS ④
SCALE: 1/2" = 1'-0"



WALKWAY STEEL ROD & WALER REPAIRS ⑤
SCALE: 1/2" = 1'-0"



CORNER ROLLER FENDER ⑦

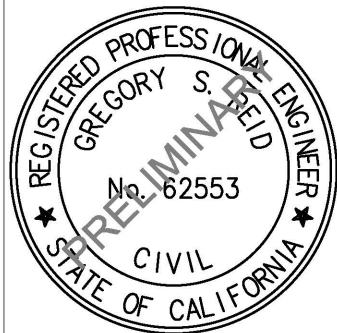
CLIENT:



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MARINA DOCK REPAIR

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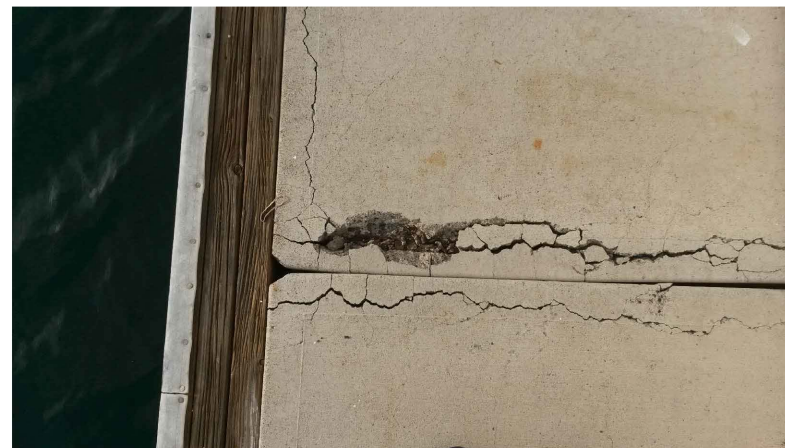
SHEET:
STEEL RODS, BRACKETS & FRAMES



TYPICAL J-BOX REPAIRS ①
SCALE: NTS



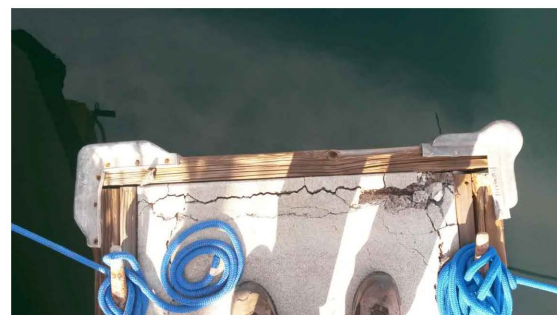
TYPICAL SURFACE SPALL ⑤
SCALE: NTS



TYPICAL EDGE CRACKING 1 ②
SCALE: NTS



TYPICAL EDGE CRACKING 2 ③
SCALE: NTS

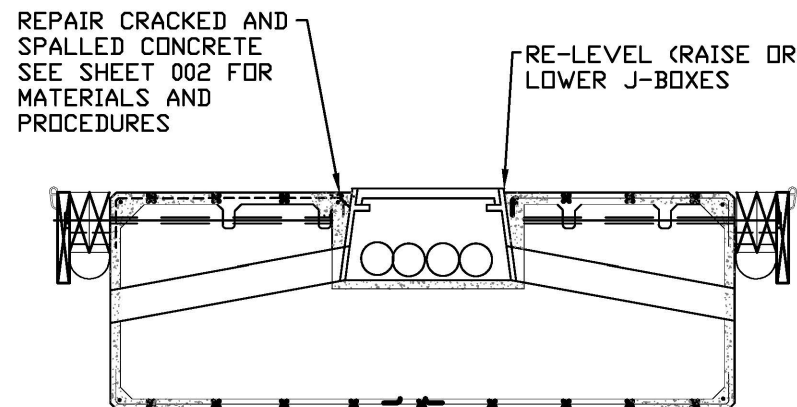


TYPICAL FINGER END REPAIRS ④
SCALE: NTS

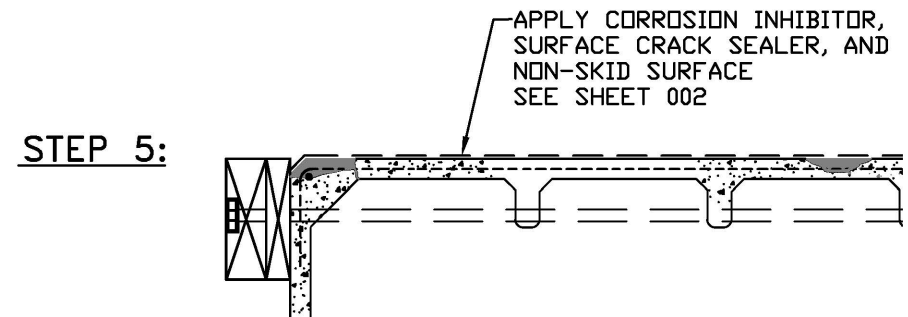
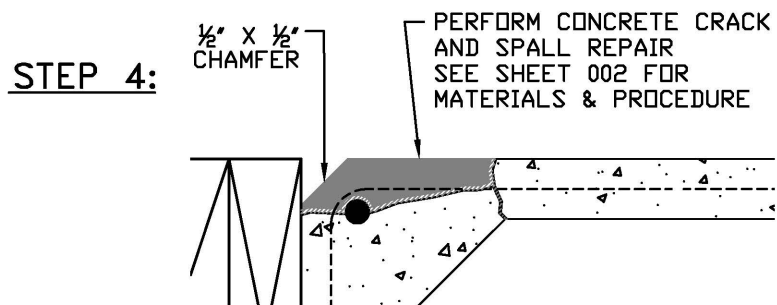
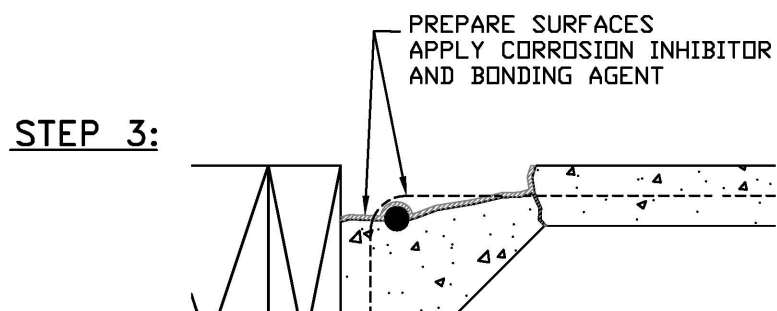
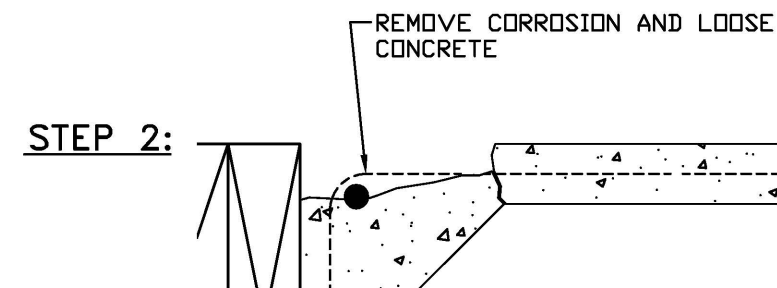
CONCRETE FLOAT REPAIR SEQUENCE

1. IMPLEMENT BEST MANAGEMENT PRACTICES (BMP'S) PER SHEET 401.
2. PERFORM STEEL ROD AND WALER REPLACEMENT
3. TIGHTEN STEEL RODS, CONNECTIONS AND WALERS. DO NOT OVER-TIGHTEN RODS.
4. PROVIDE FORMS BETWEEN FLOATS AND CONTAINMENT THROUGHOUT CONCRETE REPAIRS.
5. REMOVE CRACKED AND SPALLED CONCRETE & PREPARE SURFACES PER MANUFACTURERS RECOMMENDATIONS.
6. PLACE REPLACEMENT INSERTS AND FORMS WHERE NEEDED
7. PERFORM CONCRETE REPAIRS. SEE CONCRETE REPAIR MATERIALS AND PROCEDURES ON SHEET 002.
8. COMPLETE ROD TIGHTENING AFTER CONCRETE REPAIR HAS CURED.

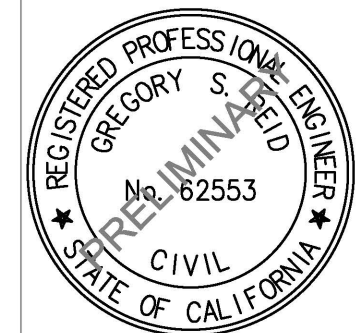
CONCRETE REPAIR SEQUENCE ⑥



CONCRETE REPAIR & J-BOX LEVELING ⑦
SCALE: 1" = 1'-0"



TYPICAL CONCRETE REPAIR STEPS ⑧
SCALE: VARIES



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SHEET:
CONCRETE REPAIRS

CLIENT:



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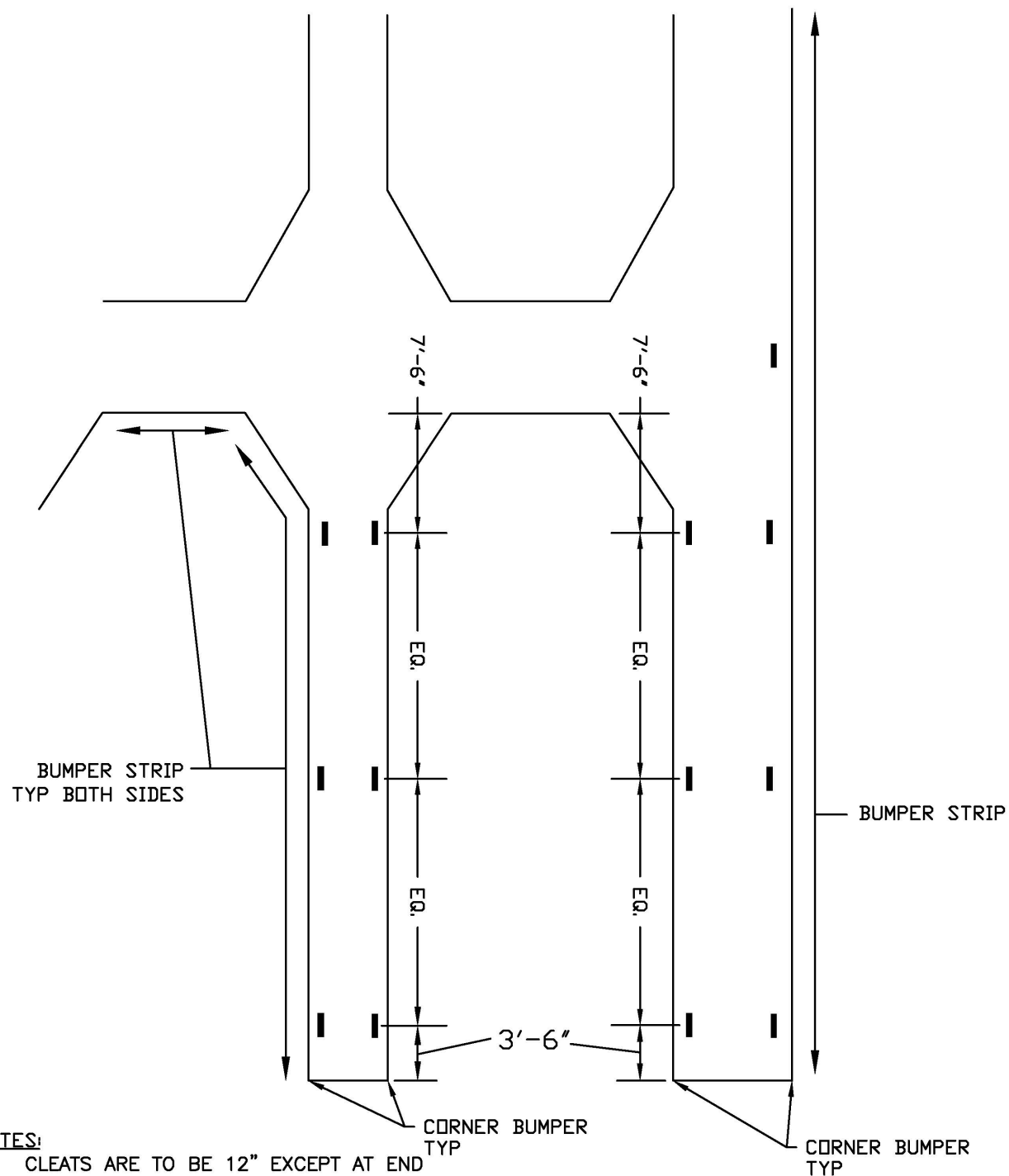
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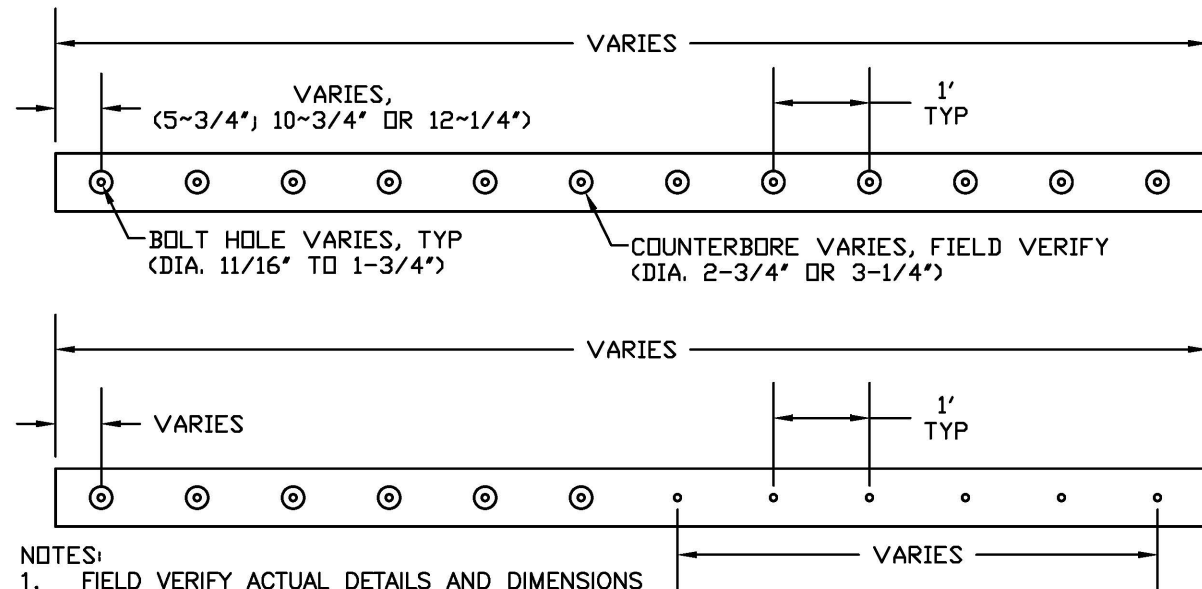
SHEET:
CLEATS, BUMPER STRIPS & WALERS



- NOTES:**
1. CLEATS ARE TO BE 12" EXCEPT AT END FINGERS & FINGERS 50 FEET OR LONGER WHICH SHALL HAVE 14" CLEATS.
 2. MATCH CLEATS AND BUMPER STRIP TO OPPOSITE FINGER.
 3. INSTALL CLEATS ON INSIDE WALER.
 4. AVOID CONFLICTS AND DAMAGING UNDERLYING UTILITIES DURING INSTALLATION OF WALKWAY CLEATS.
 5. DO NOT STRADLE STEEL RODS WITH CLEATS BOLTS. SEE SHEET 305.
 6. AVOID LOCATING CLEATS AT FLOAT JOINTS. SEE SHEET 305.
 7. DO NOT CONNECT CLEATS WITH LAG BOLTS.

BERTH SIZE	CLEAT SIZE	BOLT SIZE	TOTAL PER SIDE
UP TO 45'	12"	MFR.	3
50' TO 60'	14"	MFR.	3

CLEAT & BUMPER STRIP LAYOUT ①



- NOTES:**
1. FIELD VERIFY ACTUAL DETAILS AND DIMENSIONS PRIOR TO FABRICATION.
 2. FIELD CUTS AND HOLES TO BE TREATED WITH WOOD PRESERVATIVE PRIOR TO ASSEMBLY.
 3. BOLT HOLES TO BE 1 1/8" DIAMETER FOR 5/8" STEEL RODS AND 1 3/8" DIAMETER FOR 3/4" STEEL RODS.
 4. COUNTERBORE TO ACCOMMODATE WASHERS.

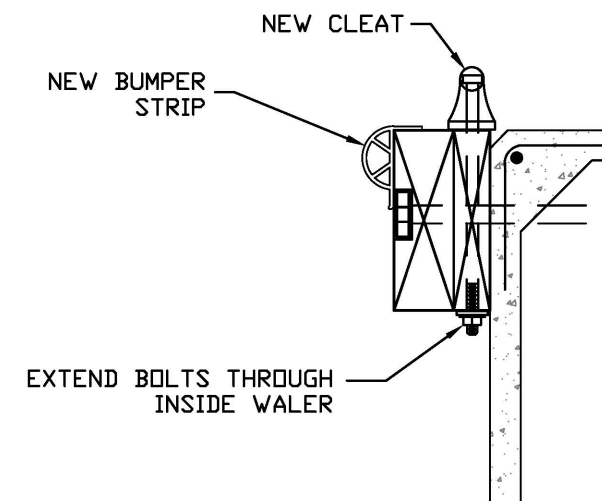
TYPICAL WALER DETAIL ②
SCALE: 6"=1'-0"



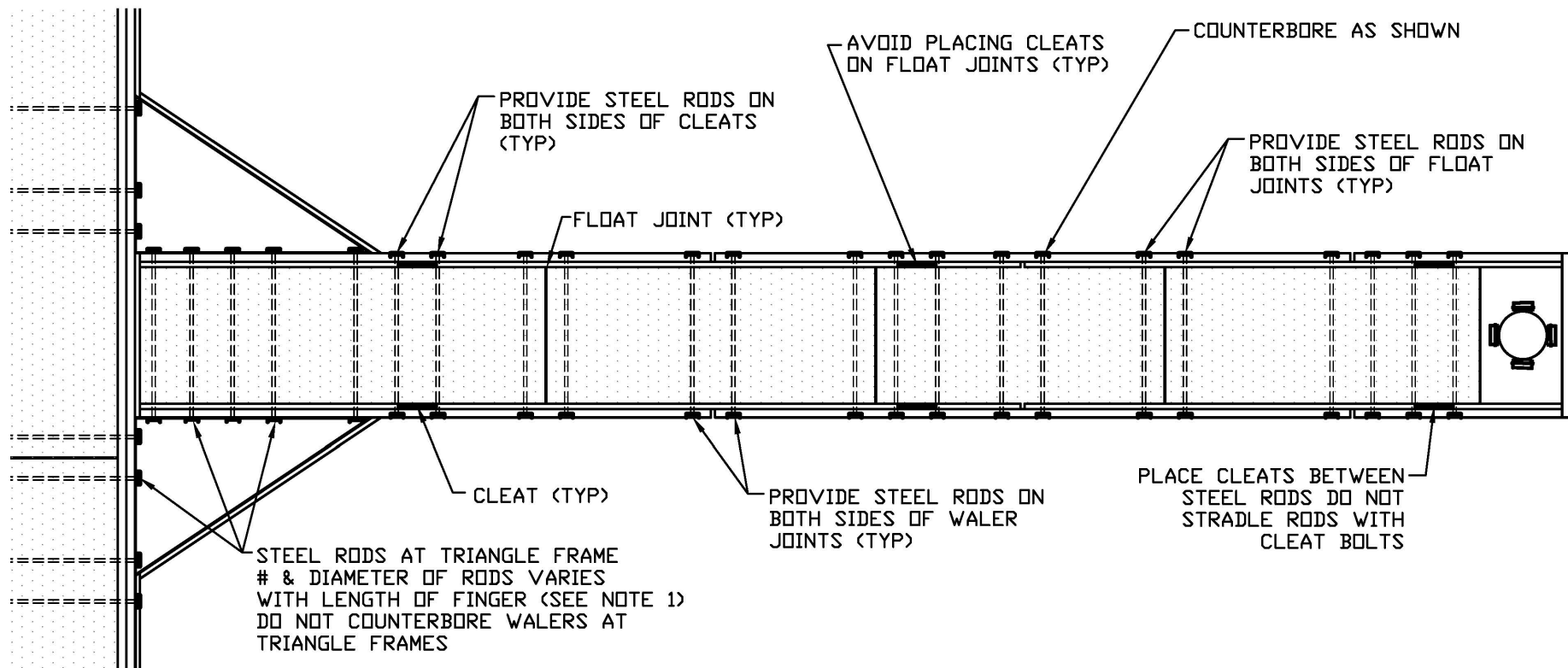
TYPICAL SPLIT WALER AT FINGER END PILE ③



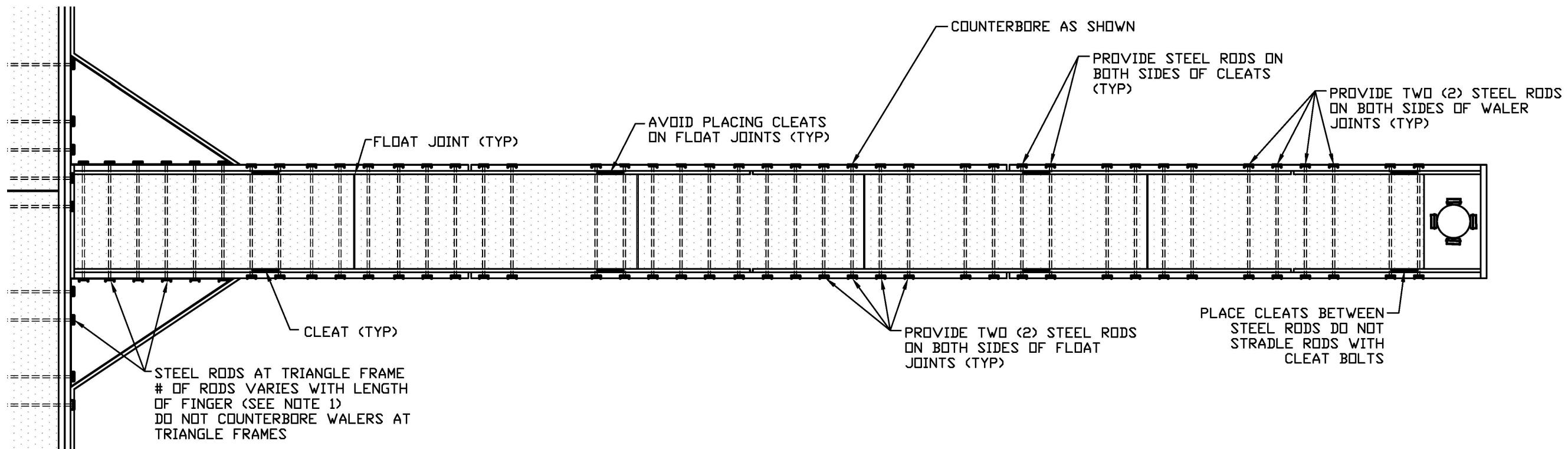
TYPICAL SPLIT INSIDE WALER AT CLEAT ④



TYPICAL CLEAT & BUMPER STRIP ⑤
SCALE: 1-1/2"=1'-0"



TYPICAL FINGER STEEL ROD REPLACEMENT ①
SCALE: NTS



ENHANCED FINGER STEEL ROD REPLACEMENT ②
SCALE: NTS

GENERAL NOTES

1. DIAMETER OF STEEL RODS TO MATCH EXISTING. PROVIDE ADDITIONAL STEEL RODS AS INDICATED BY THESE PLANS.
2. PROVIDE DRILL HOLES AND COUNTERBORE TO MATCH STEEL ROD DIAMETERS.

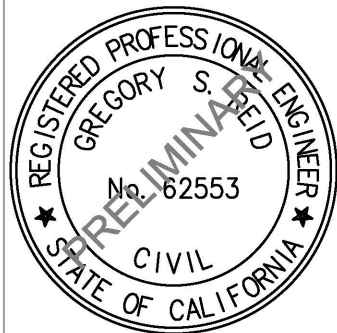
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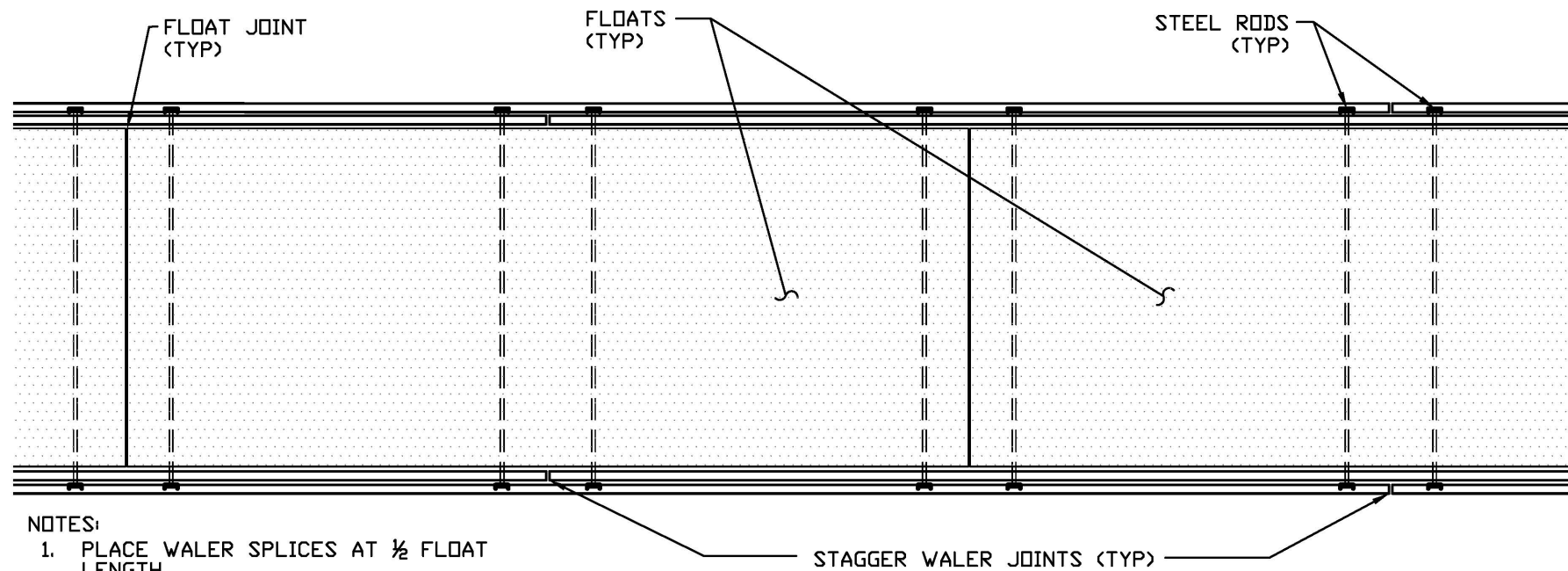
MARINA DOCK REPAIR

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SHEET:

FINGER STEEL ROD LAYOUT

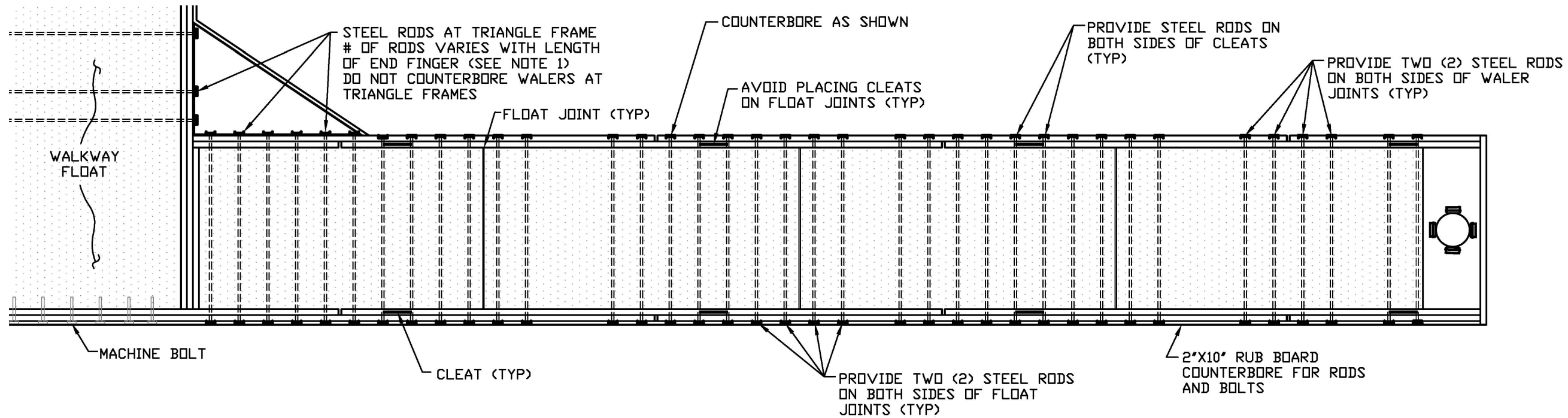


- NOTES:
1. PLACE WALER SPLICES AT 1/2 FLOAT LENGTH.
 2. NO TWO WALERS SPLICED AT THE SAME POINT.
 3. NO SPLICES AT FLOAT JOINTS.
 4. WALKWAY ROD LAYOUT SHALL MATCH EXISTING CONDITIONS.
 5. SEE SHEET 305 AND DETAIL 2 BELOW FOR ADDITIONAL STEEL RODS TO BE INSTALLED AT FINGER CONNECTIONS.

GENERAL NOTES

1. DIAMETER OF STEEL RODS TO MATCH EXISTING. PROVIDE ADDITIONAL STEEL RODS AS INDICATED BY THESE PLANS.
2. PROVIDE DRILL HOLES AND COUNTERBORE TO MATCH STEEL ROD DIAMETERS.

TYPICAL WALER SPLICE & WALKWAY STEEL ROD LAYOUT ①
SCALE: NTS



TYPICAL END FINGER STEEL ROD REPLACEMENT ②
SCALE: NTS



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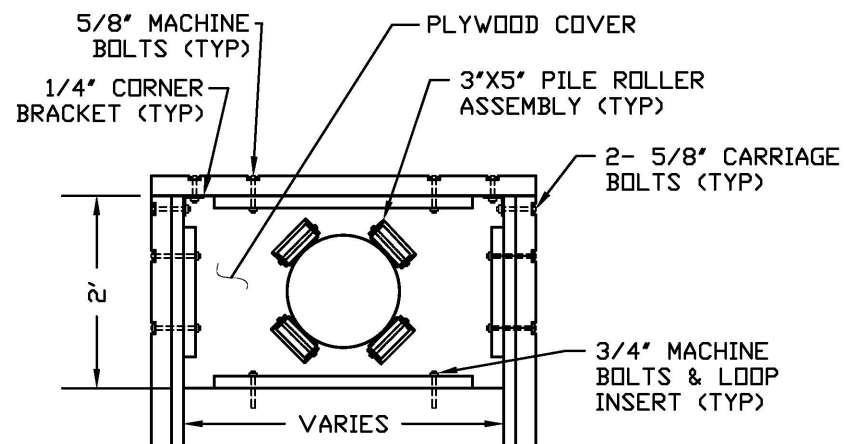
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SHEET:
END FINGER ROD & WALER SPLICE LAYOUT



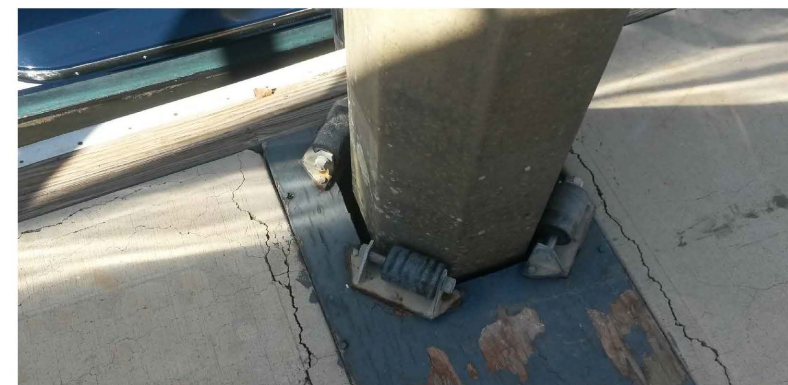
TYPICAL FINGER END PILE GUIDE ①
SCALE: 6" = 1'-0"



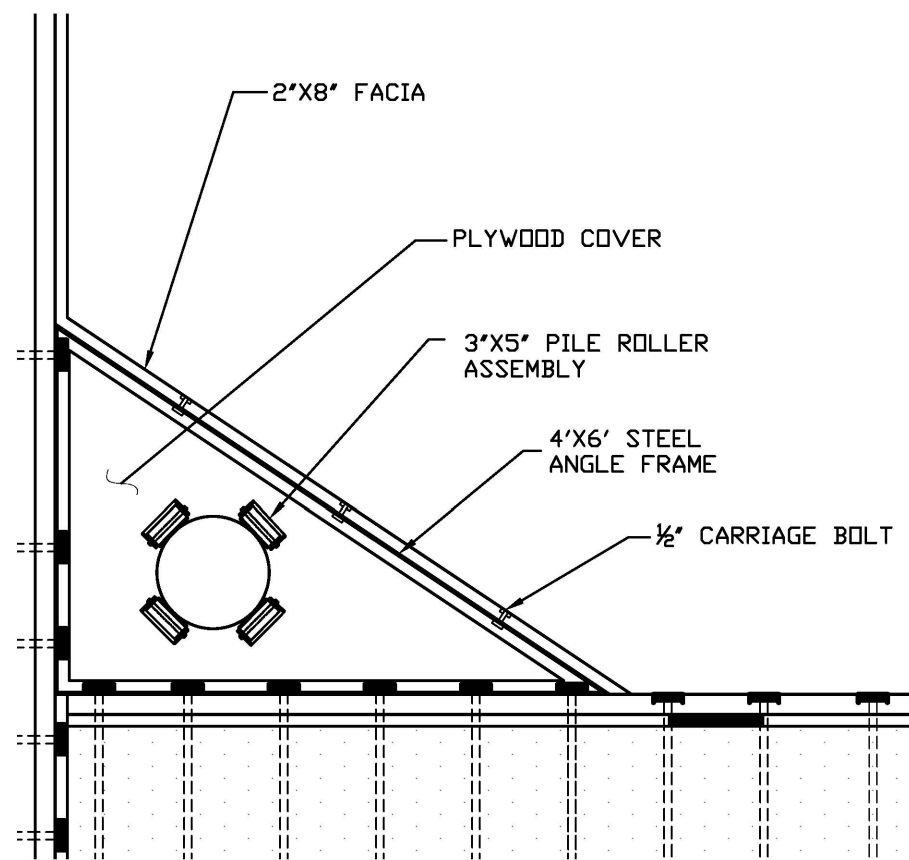
TYPICAL FINGER END PILE GUIDE TO REPAIR ③



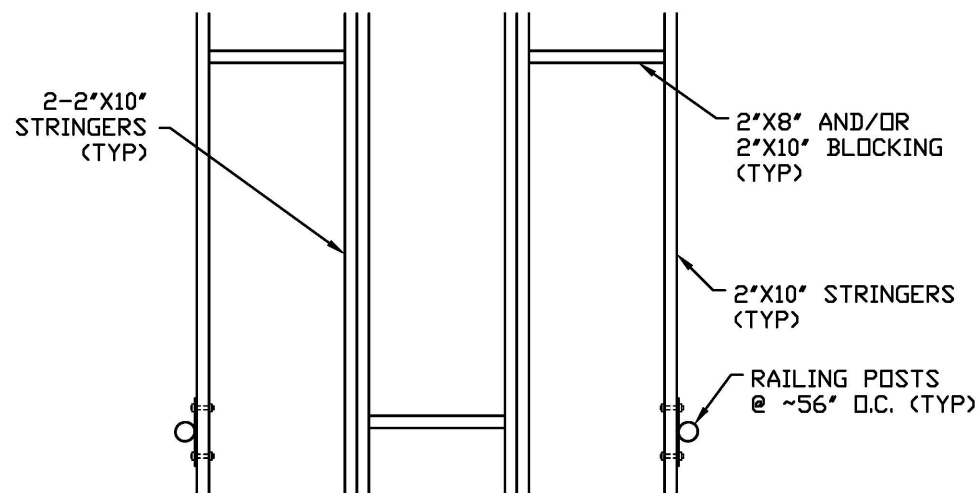
TYPICAL TRIANGLE FRAME PILE GUIDE ④



TYPICAL WALKWAY PILE GUIDE ⑦



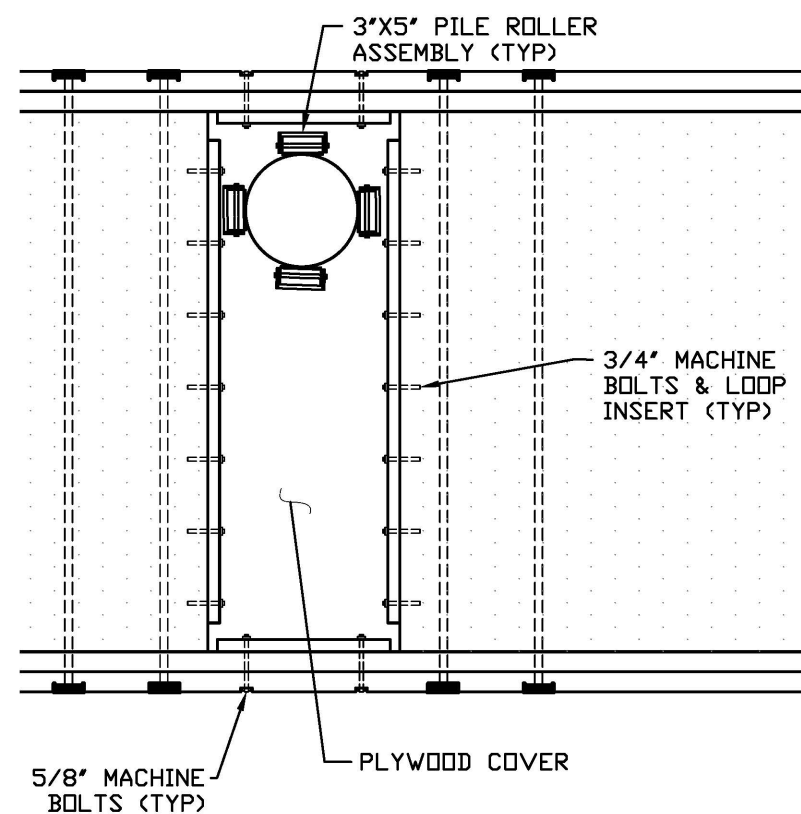
TYPICAL STEEL BRACKET REPAIR ②
SCALE: 6" = 1'-0"



TYPICAL GANGWAY ⑤
SCALE: 6" = 1'-0"



GANGWAY WHEEL ASSEMBLY ⑧



WALKWAY PILE GUIDE ⑥
SCALE: 6" = 1'-0"



TYPICAL SIDE PILE GUIDES ⑨

GENERAL NOTES

1. CONTRACTOR TO PROTECT ALL EXISTING FEATURES & IMPROVEMENTS TO REMAIN.
2. ALL PLYWOOD TO BE M.D.O., HAVE TWO COATS NON-SKID FINISH & CUT FOR TIGHT FIT, 1/8" GAP MAX.
3. INSPECT GANGWAY HINGES, WOOD MEMBERS, WHEELS AND HARDWARE. REPLACE DETERIORATED MATERIALS AND HARDWARE IN KIND, REINFORCE WHEEL ASSEMBLY WHERE WOOD IS SPLIT & SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL.



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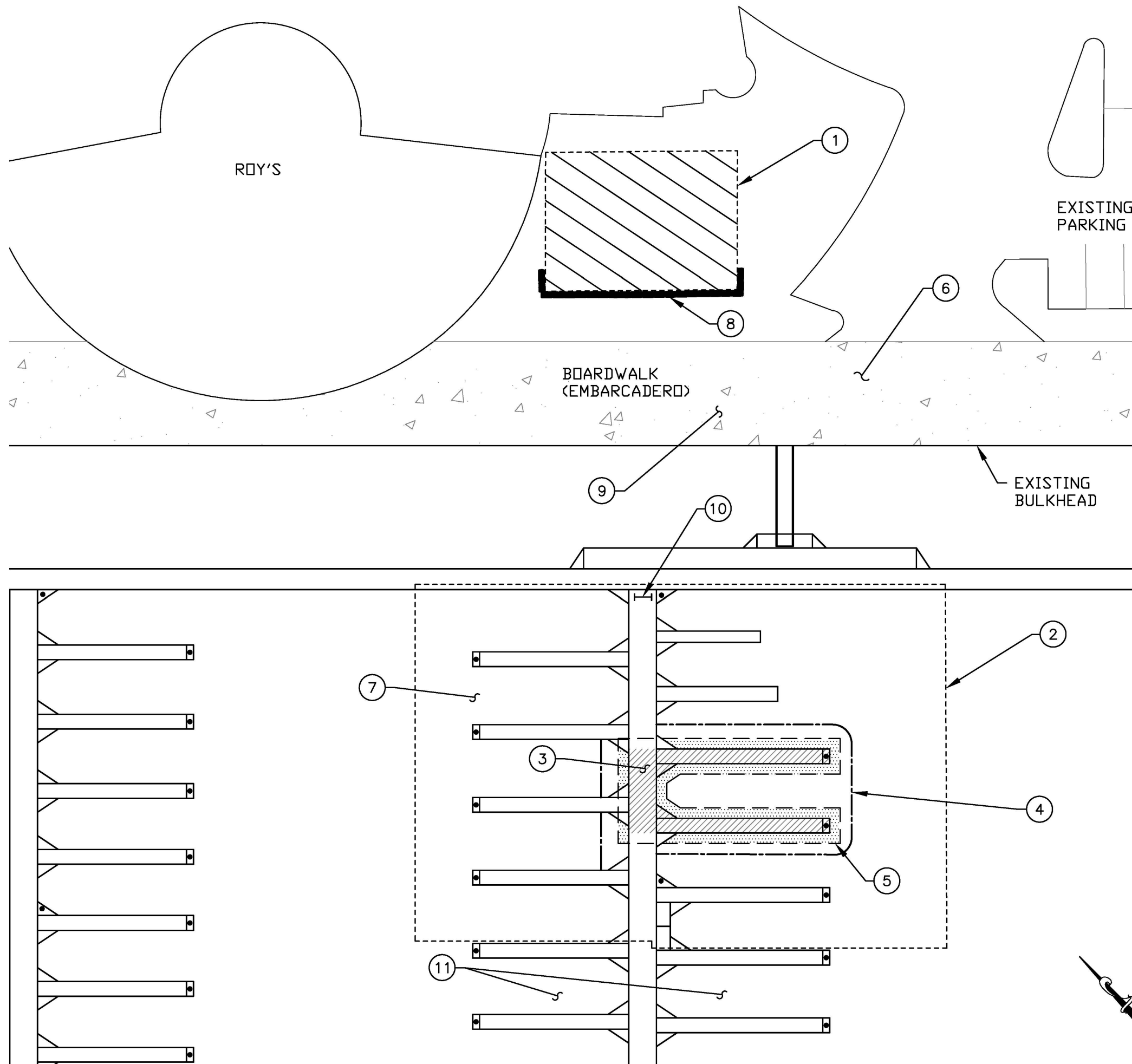
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SHEET:
PILE GUIDE ASSEMBLIES & GANGWAY



SHEET NOTES

(SHEET SPECIFIC)

- ① MATERIALS AND EQUIPMENT STORAGE & ASSEMBLY AREA INSTALL FREE STANDING FENCE AROUND PERIMETER & SECURE
- ② TYPICAL PHASED DOCK REPAIR AREA ALL BOATS TO BE REMOVED AND PEDESTRIAN ACCESS RESTRICTED
- ③ TYPICAL ACTIVE WORK (STEEL ROD REPLACEMENT, CONCRETE REPAIR, ETC.) AREA WITHIN PHASED REPAIR AREA
- ④ PROVIDE FLOATING DEBRIS (WOOD WALERS, RUB STRIPS, ETC.) BOOM AROUND ACTIVE WORK AREA. SUBMIT PRODUCT DATA SHEET FOR REVIEW AND APPROVAL
- ⑤ PROVIDE CONTAINMENT FOR CONCRETE AND OTHER SINKABLE DEBRIS UTILIZING TARPS, FILTER FABRIC OR OTHER MATERIALS TO PREVENT DEBRIS FROM ENTERING WATER. SUBMIT CONTAINMENT MATERIALS AND METHODS FOR REVIEW AND APPROVAL. PROPERLY DISPOSE OF ALL CONSTRUCTION DEBRIS
- ⑥ PROVIDE PEDESTRIAN TRAFFIC CONTROL UTILIZING CAUTION SIGNAGE AND FLAGGERS WHILE TRANSPORTING MATERIALS ACROSS THE BOARDWALK ENSURE PUBLIC SAFETY AT ALL TIMES AROUND THE ACTIVE WORK AND EQUIPMENT STAGING AREAS. SUBMIT PEDESTRIAN TRAFFIC CONTROL PLAN AND SIGNAGE FOR APPROVAL
- ⑦ NO ANCHORS OR SPUDS ALLOWED WORK VESSEL(S), DEBRIS BOOM AND OTHER CONSTRUCTION RELATED ITEMS TO BE SECURED TO DOCKS AND/OR EXISTING PILES
- ⑧ UTILIZE SAND BAGS ALONG DOWN SLOPE SIDE TO CONTAIN MATERIAL DEBRIS WITHIN THE STORAGE AND ASSEMBLY AREA CLEAN-UP AND PROPERLY DISPOSE OF DEBRIS
- ⑨ IMMEDIATELY CLEAN-UP ANY MATERIALS OR DEBRIS DISPLACED ONTO THE BOARDWALK FROM THE STORAGE AREA OR DURING MATERIALS OR EQUIPMENT TRANSPORT
- ⑩ RESTRICT PUBLIC ACCESS TO PHASED DOCK REPAIR AREA
- ⑪ SLIPS BEYOND PHASED DOCK REPAIR AREA TO REMAIN EMPTY UNTIL ENTIRE WALKWAY REPAIR WORK IS COMPLETE

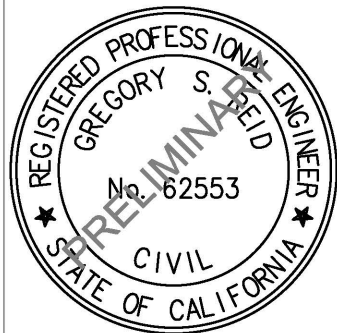
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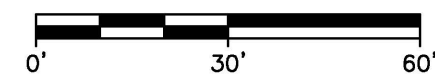
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SHEET:

**WORK
CONTAINMENT**

401



GRAPHICAL SCALE IN FEET
SCALE: 1:30