

**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: 45 Port of Spain Dock Replacement Project  
Certification Number R9-2018-0136  
WDID: 9 000003327**

Reg. Meas. ID: 422793  
Place ID: 849181  
Party ID: 581110  
Person ID: 581115

**APPLICANT: Nannette Netal  
45 Port of Spain Road  
Coronado, CA 92118**

**ACTION:**

<input type="checkbox"/> Order for Low Impact Certification	<input type="checkbox"/> Order for Denial of Certification
<input checked="" 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**

A revised application dated August 16, 2018 was submitted by Nannette Netal (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 45 Port of Spain Dock Replacement Project (Project). The California Regional Water Quality Control Board, San Diego Region (San Diego Water Board) deemed the application to be complete on September 14, 2018. The Applicant proposes to discharge dredged or fill material to waters of the United States and/or State associated with construction activity at the Project site. The Applicant has also applied under the Rivers and Harbors Act section 10 for coverage by Regional General Permit No. 85 (SPL-2015-00366) (USACE File No. SPL-2018-00162-SRR).

The Project is located within the City of Coronado, San Diego County, California at 45 Port of Spain Road. The Project center reading is located at latitude 32.620975 and longitude -117.132967. The Applicant has paid all required application fees for this Certification in the amount of \$1,500.00. On September 18, 2018, 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 replace a private dock at the residence that was previously removed as part of Phase I implementation of a larger project for Trinidad Village. Phase III had included the re-installation of several private docks, which was not fully implemented before the expiration of the previous permit approvals. In addition, the associated gangways, pilings, and utilities (electrical service, communication, potable water and a fire suppression system) will also be replaced.

Installation of the new dock system will include the installation of approximately 0.0054 acre (237 square feet) of new floating dock and gangway area and 2 16-inch diameter concrete piles with a total fill area of approximately 0.0001 acre (2.79 square feet). No eelgrass was found within the Project area during a survey conducted on March 1, 2018.

The replacement dock will be built on the contractor's premises, towed over land to a San Diego Bay marina, launched from the marina boat ramp and then floated to the Project site. It will be assembled at the Project site using pre-drilled holes. Two 14 inch round concrete marina guide piles will be brought to the Project site by barge and installed using the jetting method. Silt curtains and a boom will be used throughout the installation activity. A Vessel Pollution Response Plan has been prepared for the Project and will be followed.

The previous dock, prior to its removal, had a total area of approximately 0.0081 acre (351 square feet) of occupied surface area coverage of waters of the U.S. and/or State and include 2 piles of unknown size. After the Project is implemented, the new dock system will result in an approximate net decrease of 0.0026 acre (111 square feet) of overall occupied surface area coverage and the number of piles will remain the same.

Under the terms of this Certification, the Applicant must ensure that the design, operation, and degree of treatment expected to be attained from equipment, facilities, or activities (including construction) will adequately treat waste and reduce other effluents which may be discharged. Compliance with the Certification conditions will help ensure that construction and post-construction discharges from the Project will not cause or contribute to exceedances of water quality standards in the *Water Quality Control Plan for the San Diego Basin (9)* (Basin Plan).

Project construction will result in permanent impacts of 0.0055 acre (10 linear feet) to San Diego Bay waters of the United States and/or State. The Applicant reports that the Project purpose cannot be practically accomplished in a manner which would avoid or result in less adverse impacts to aquatic resources considering all potential practicable alternatives, such as the potential for alternate available locations, designs, reductions in size, configuration or density. Compensatory mitigation is not required as this Project will result in a net decrease of occupied surface area coverage within San Diego Bay.

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

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### Attachments:

1. Definitions
2. Project Figures and Plans

The San Diego Water Board has independently reviewed the record of the Project to analyze the extent and nature of proposed Project impacts to the water quality and beneficial uses of waters of the United States and/or State and associated compensatory mitigation required to offset impacts attributed to the Project. In accordance with this Certification, the Applicant may proceed with the Project under the following terms and conditions:

## 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. R9-2018-0136 (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/go\\_wdr401regulated\\_projects.pdf](http://www.waterboards.ca.gov/water_issues/programs/cwa401/docs/generalorders/go_wdr401regulated_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](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 San Diego Bay;
  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](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. **General Construction Storm Water Permit.** Prior to start of Project construction, the Applicant must, as applicable, obtain coverage under, and comply with, the requirements of State Water Resources Control Board Water Quality Order No. 2009-0009-DWQ, the *General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activity*, (General Construction Storm Water Permit) and any reissuance. If Project construction activities do not require coverage under the General Construction Storm Water Permit, the Applicant must develop and implement a runoff management plan (or equivalent construction BMP plan) to prevent the discharge of sediment and other pollutants during construction activities.
- E. **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.

- F. **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.
- G. **Construction Equipment.** All equipment must be washed prior to transport to the Project site and must be free of sediment, debris, and foreign matter. All equipment used in direct contact with surface water shall be steam cleaned prior to use. All equipment using gas, oil, hydraulic fluid, or other petroleum products shall be inspected for leaks prior to use and shall be monitored for leakage. Stationary equipment (e.g., motors, pumps, generator, etc.) shall be positioned over drip pans or other types of containment.
- H. **Process Water.** Water containing mud, silt, or other pollutants from equipment washing or other activities, must not be discharged to waters of the United States and/or State or placed in locations that may be subjected to storm water runoff flows.
- I. **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.
- J. **Limits of Disturbance.** The Applicant shall clearly define the limits of Project disturbance to waters of the United States and/or State using highly visible markers such as flag markers, construction fencing, or silt barriers prior to commencement of Project construction activities within those areas.
- K. **Silt Curtain Deployment.** The Applicant shall deploy and maintain a continuous length of silt curtain, fully surrounding active discharge activities, including pile driving, in conformance with the following requirements:
1. The silt curtains must restrict the surface visible turbidity plume or surface debris to the area of construction and dredging and must control and contain the migration of re-suspended sediments or debris at the water surface and at depth;
  2. The bottom of the silt curtains must be weighted with ballast weights or rods affixed to the base of the fabric to resist the natural buoyancy of the silt curtain fabric and lessen its tendency to move in response to currents. Where feasible and applicable, the floating silt curtains must be anchored and deployed from the surface of the water to just above the substrate;
  3. The silt curtain must be monitored for damage, dislocation or gaps and must be immediately repaired where it is no longer continuous or where it has loosened; and



4. The silt curtain must not be removed until the visible turbidity plume has dissipated and/or surface debris is skimmed and removed.

L. **Protection of Eelgrass Beds.** As required in section V.C. of this certification, a pre-construction eelgrass survey must be completed in accordance with the requirements of the *California Eelgrass Mitigation Policy (CEMP)*<sup>1</sup> by a qualified biologist, prior to initiation of construction activities at the site. If eelgrass is found during the pre-construction survey, the Applicant shall also comply with the following requirements:

1. Prior to construction, the boundaries of adjacent eelgrass beds must be staked with ridged PVC markers or self-centering buoys visible at all tide heights. The PVC markers or self-centering buoys must be protected, replaced, and maintained as needed to ensure that they remain in place and properly stake at the boundaries of the eelgrass beds; and
2. Any silt curtains must be kept a minimum of 30 feet away from staked eelgrass beds in order to prevent damage to eelgrass beds from curtain drag or movement.

M. **On-site Qualified Biologist.** If eelgrass is found during the pre-construction eelgrass survey, the Applicant shall designate an on-site qualified biologist to monitor Project construction activities within or adjacent to waters of the United States and/or State to ensure compliance with the Certification requirements. The biologist shall be given the authority to stop all work on-site if a violation of this Certification occurs or has the potential to occur. Records, field notes, and/or field logs created by biologist(s) for the purpose of documenting construction activities shall be submitted with the Annual Project Progress Report.

N. **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 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 VII.B of this Certification. Associated Project activities may not resume without approval from the San Diego Water Board.

#### IV. POST-CONSTRUCTION BEST MANAGEMENT PRACTICES

A. **Post-Construction Discharges.** The Applicant shall not allow post-construction discharges from the Project site to cause or contribute to on-site or off-site erosion or damage to properties or Bay habitats.

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<sup>1</sup> National Oceanic and Atmospheric Administration, National Marine Fisheries, West Coast Region. California Eelgrass Mitigation Policy and Implementing Guidelines, October 2014. An electronic copy can be found at the following web page: [http://www.westcoast.fisheries.noaa.gov/publications/habitat/california\\_eelgrass\\_mitigation/Final%20CEMP%20October%2014/cemp\\_oct\\_2014\\_final.pdf](http://www.westcoast.fisheries.noaa.gov/publications/habitat/california_eelgrass_mitigation/Final%20CEMP%20October%2014/cemp_oct_2014_final.pdf)

**V. PROJECT IMPACTS AND COMPENSATORY MITIGATION**

**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.

**B. Project Impacts and Compensatory Mitigation.** Unavoidable Project impacts to San Diego Bay must not exceed the type and magnitude of impacts described in the table below. At a minimum, compensatory mitigation required to offset unavoidable temporary and permanent Project impacts to waters of the United States and/or State must be achieved as described in the table below:

	Impacts (acres)	Impacts (linear ft.)	Mitigation for Impacts (acres)	Mitigation Ratio (area mitigated :area impacted)	Mitigation for Impacts (linear ft.)	Mitigation Ratio (linear feet mitigated :linear feet impacted)
<b>Permanent Impacts</b>						
San Diego Bay	0.0001 <sup>a</sup>	a	b	b	b	b
	0.0054 <sup>c</sup>	10 <sup>c</sup>	b	b	b	b

- a. Total permanent impacts of 0.0001 acre (2.79 square feet; 2.67 linear feet) from the fill of waters of the United States and/or State for the installation of 2 new 16-inch diameter guide piles. The linear-foot impacts of fill attributable to guide pile installations are within the shoreline lengths described for occupied surface area coverage impacts.
- b. Once implemented, the Project will provide an overall decrease of 0.0026 acre (111 square feet) in occupied surface area coverage in San Diego Bay from the previous dock. The number of guide piles used at the facility will remain the same. Therefore, no compensatory mitigation is required for this Project; however, if eelgrass is impacted, the Applicant will provide compensatory mitigation in accordance with the terms of the California Eelgrass Mitigation Policy.
- c. Total permanent impacts of 0.0054 acre (237 square feet; 10 linear feet of shoreline) due to occupied surface area coverage of waters of the United States and/or State from placement of new floating docks and gangway.

**C. Eelgrass.** A pre-construction eelgrass survey must be completed in accordance with the requirements of the California Eelgrass Mitigation Policy (CEMP; National Marine Fisheries Service 2014)<sup>2</sup> by a qualified biologist, prior to initiation of construction activities at the site. This survey must include both aerial and density characterization of the beds. If eelgrass is found during the pre-construction survey, a post-construction survey must be performed by a qualified biologist within 30 days following project

<sup>2</sup> National Oceanic and Atmospheric Administration, National Marine Fisheries, West Coast Region. California Eelgrass Mitigation Policy and Implementing Guidelines, October 2014. An electronic copy can be found at the following web page: [http://www.westcoast.fisheries.noaa.gov/publications/habitat/california\\_eelgrass\\_mitigation/Final%20CEMP%20October%2014/cemp\\_oct\\_2014\\_final.pdf](http://www.westcoast.fisheries.noaa.gov/publications/habitat/california_eelgrass_mitigation/Final%20CEMP%20October%2014/cemp_oct_2014_final.pdf)

completion to quantify any unanticipated losses to eelgrass habitat. Impacts must then be determined from a comparison of pre- and post-construction survey results. Impacts to eelgrass, if any, must be mitigated through conformance with the CEMP, which defines the mitigation ratio and other requirements to achieve mitigation for significant eelgrass impacts. If required following the post-construction survey, the CEMP defined mitigation must be developed; submitted and approved by the San Diego Water Board, U.S. Army Corps of Engineers, and National Marine Fisheries Service; and implemented to offset losses to eelgrass.

- D. Compensatory Mitigation Site Design.** If compensatory mitigation for eelgrass impacts is required, the compensatory mitigation site(s) shall be designed to be self-sustaining once performance standards have been achieved.
- E. Temporary Project Impact Areas.** The Applicant must restore all areas of temporary impacts and all other areas of temporary disturbance which could result in a discharge or a threatened discharge of pollutants to waters of the United States and/or State. Restoration must include grading of disturbed areas to pre-project contours and re-vegetation with native species. The Applicant must implement all necessary BMPs to control erosion and discharge from areas associated with the Project.
- F. Long-Term Management and Maintenance.** If compensatory mitigation for eelgrass impacts is required, the compensatory mitigation site(s) must be managed, protected, and maintained, in perpetuity, in conformance with long-term management provisions and the final ecological success performance standards identified in an approved mitigation plan. The aquatic habitats that comprise the mitigation site(s) must be protected in perpetuity from land-use and maintenance activities that may threaten water quality or beneficial uses within the mitigation area(s) in a manner consistent with the following requirements:
- a. Any maintenance activities on the mitigation site(s) that do not contribute to the success of the mitigation site(s) and enhancement of beneficial uses and ecological functions and services are prohibited;
  - b. Maintenance activities must be limited to the removal of trash and debris, removal of exotic plant species, replacement of dead native plant species, and remedial measures deemed necessary for the success of the compensatory mitigation project; and
  - c. If at any time a catastrophic natural event (e.g., fire, flood) causes damage(s) to the mitigation site(s) or other deficiencies in the compensatory mitigation project, the Applicant must take prompt and appropriate action to repair the damage(s) including replanting the affected area(s) and address any other deficiencies. The San Diego Water Board may require additional monitoring by the Applicant to assess how the compensatory mitigation site(s) or project is responding to a catastrophic natural event.

- G. Timing of Mitigation Site Construction.** If compensatory mitigation for eelgrass impacts is required, the construction of proposed mitigation must be completed no later than 9 months following the earliest time of either the direct impact to eelgrass beds or as directed in accordance with CEMP. Delays in implementing mitigation must be compensated for by an increased mitigation implementation of 10% of the cumulative compensatory mitigation for each month of delay.
- H. Mitigation Site(s) Preservation Mechanism.** If compensatory mitigation for eelgrass impacts is required, the Applicant must provide the San Diego Water Board with a draft preservation mechanism (e.g. deed restriction, conservation easement, etc.) **within 90 days from the Project completion date** that will protect all mitigation areas and their buffers in perpetuity. The Applicant must submit proof of a completed final preservation mechanism that will protect all mitigation areas and their buffers in perpetuity. The conservation easement, deed restriction, or other legal limitation on the mitigation properties must be adequate to demonstrate that the sites will be maintained without future development or encroachment on the sites which could otherwise reduce the functions and values of the sites for the variety of beneficial uses of waters of the United States and/ or State that it supports. The legal limitation must prohibit, without exception, all residential, commercial, industrial, institutional, and transportation development, and any other infrastructure development that would not maintain or enhance the wetland and streambed functions and values of the sites. The preservation mechanism must clearly prohibit activities that would result in soil disturbance or vegetation removal, other than the removal of non-native vegetation. Other infrastructure development to be prohibited includes, but is not limited to, additional utility lines, maintenance roads, and areas of maintained landscaping for recreation.

## **VI. MONITORING AND REPORTING REQUIREMENTS**

- A. Representative Monitoring.** Samples and measurements taken for the purpose of monitoring under this Certification shall be representative of the monitored activity.
- B. Monitoring Reports.** Monitoring results shall be reported to the San Diego Water Board at the intervals specified in section VI of this Certification.
- C. Monitoring and Reporting Revisions.** The San Diego Water Board may make revisions to the monitoring program at any time during the term of this Certification and may reduce or increase the number of parameters to be monitored, locations monitored, the frequency of monitoring, or the number and size of samples collected.
- D. Records of Monitoring Information.** Records of monitoring information shall include:
1. The date, exact place, and time of sampling or measurements;
  2. The individual(s) who performed the sampling or measurements;
  3. The date(s) analyses were performed;

4. The individual(s) who performed the analyses;
5. The analytical techniques or methods used; and
6. The results of such analyses.

**E. Receiving Water Visual Observation Monitoring.** The Applicant must conduct visual observation monitoring of the Project activities in the San Diego Bay prior to, during, and after each period of project construction. The visual observation monitoring documentation must be included in the Receiving Water Visual Observation Monitoring Report(s).

1. **Parameters.** The following parameters shall be visually monitored immediately outside of the construction area:
  - a. No floating particulates, suspended materials, grease, or oil; and
  - b. No significant discoloration of the water surface.
2. **Field Documentation.** All visual observations shall be recorded throughout Project construction activities. In addition to the requirements listed in section VI.D., monitoring field logs shall include, but is not limited to, observations of water quality conditions including sheen, color, odor, floating particulates, condition of silt curtain, surface visible turbidity plume. Logs shall also include observations of sensitive biological resources and weather conditions, such as wind speed/direction and cloud cover.

If photo documentation is used in support of visual observations of water quality conditions, it should be conducted in accordance with guidelines posted at [http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/401\\_certification/docs/401c/401PhotoDocRB9V713.pdf](http://www.waterboards.ca.gov/sandiego/water_issues/programs/401_certification/docs/401c/401PhotoDocRB9V713.pdf). In addition, photo documentation should include Global Positioning System (GPS) coordinates for each of the photo points referenced; and,

3. **Response Actions.** If the condition of the silt curtain is observed to be damaged, has become dislocated, or has gaps where a visible turbidity plume is forming outside of the silt curtain at the Project Site, a response action shall be taken immediately to correct the situation. Response actions may include, but are not limited to, work stoppage until silt curtain repair is completed, implementation of operational modifications, work stoppage due to the presence of sensitive species until area is vacated, and/or implementation of additional BMPs (e.g., a second silt curtain). Response actions, if needed, shall be documented in the monitoring field log.

**F. Annual Project Progress Reports.** The Applicant must submit annual Project Progress Reports until this certification has expired or been terminated. The Project Progress Reports must describe the status of BMP implementation, compensatory mitigation (if required by CEMP), and compliance with all requirements of this Certification to the San Diego Water Board prior to **March 1** of each year following the issuance of this Certification, until the Project has reached completion. The Annual Project Progress Reports must contain compensatory mitigation monitoring information sufficient to demonstrate how the compensatory mitigation project is progressing towards accomplishing its objectives and meeting its performance standards. Annual Project Progress Reports must be submitted even if Project construction has not begun. The monitoring period for each Annual Project Progress Report shall be January 1<sup>st</sup> through December 31<sup>st</sup> of each year. If all Project components are complete, including any compensatory mitigation as required by CEMP, the final Annual Project Progress Report may be submitted with the Final Project Completion Report for the purpose of completing all of the necessary requirements of the permit. Annual Project Progress Reports must include, at a minimum, the following:

1. **Project Status and Compliance Reporting.** The Annual Project Progress Report must include the following Project status and compliance information:
  - a. The following identification numbers included at the end of the header or subject line content: Certification No. R9-2018-0136:849181:lhonma;
  - b. The names, qualifications, and affiliations of the persons contributing to the report;
  - c. The status, progress, and anticipated schedule for completion of Project construction activities including the installation and operational status of best management practices project features for erosion and storm water quality treatment;
  - d. A description of Project construction delays encountered or anticipated that may affect the schedule for construction completion;
  - e. A description of each incident of noncompliance during the annual monitoring period and its cause, the period of the noncompliance including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance; and
  - f. The pre- and post- construction eelgrass surveys, as applicable, required under section V.C of this Certification, including a description of any additional actions that will be taken by the Applicant to mitigate for impact to eelgrass habitat beyond what is expected.

2. **Receiving Water Visual Observation Monitoring Reporting.** The Applicant shall prepare monitoring reports that contain the results of visual observation monitoring activities for each week of monitoring. The reports must include, at a minimum:
  - a. The names, qualifications, and affiliations of the persons contributing to the report;
  - b. Copies of records, field notes/logs, and/or photo documentation of the visual observations required under section VI.E; and
  - c. A summary, evaluation, and interpretation of the visual observations recorded and any response actions taken as required under section VI.E, including interpretations and conclusions as to whether applicable receiving water limitations were attained at the site.
  
3. **Compensatory Mitigation Monitoring Reporting.** If compensatory mitigation for eelgrass impacts is required, mitigation monitoring information must be submitted as part of the Annual Project Progress Report for a period of not less than five years, sufficient to demonstrate that the compensatory mitigation project has accomplished its objectives and met ecological success performance standards contained in the Mitigation Plan. Monitoring shall be conducted in accordance with the standards of the CEMP. Following Project implementation, the San Diego Water Board may reduce or waive compensatory mitigation monitoring requirements upon a determination that performance standards have been achieved. Conversely, the San Diego Water Board may extend the monitoring period beyond five years upon a determination that the performance standards have not been met or the compensatory mitigation project is not on track to meet them. The Annual Project Progress Report must include the following compensatory mitigation monitoring information:
  - a. Names, qualifications, and affiliations of the persons contributing to the report;
  - b. An evaluation, interpretation, and tabulation of the parameters being monitored, including the results of the Mitigation Plan monitoring program, and all quantitative and qualitative data collected in the field;
  - c. Monitoring data interpretations and conclusions as to how the compensatory mitigation project(s) is progressing towards meeting performance standards and whether the performance standards have been met;
  - d. A description of the progress toward implementing a plan to manage the compensatory mitigation project after performance standards have been achieved to ensure the long-term sustainability of the resource in perpetuity, including a discussion of long-term financing mechanisms, the party responsible for long-term management, and a timetable for future steps;

- e. Qualitative and quantitative comparisons of current mitigation conditions with pre-construction conditions and previous mitigation monitoring results;
  - f. As-built drawings of the compensatory mitigation project site(s), no bigger than 11"X17"; and
  - g. A survey report documenting boundaries of the compensatory mitigation site(s).
- G. 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, at a minimum:
1. Date of construction initiation; and
  2. Date of construction completion.
- H. 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.
- I. 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](mailto: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. R9-2018-0136:849181: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. R9-2018-0136:849181:lhonma.
- J. 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.

- K. **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."*

## VII. NOTIFICATION REQUIREMENTS

- A. **Commencement of Construction Notification.** The Applicant must notify the San Diego Water Board in writing at least 5 days prior to the start of initial Project construction ground disturbance
- B. **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.

- C. **Caulerpa Taxifolia.** The Applicant must conduct a surveillance-level survey for *Caulerpa taxifolia*, in accordance with the requirements in the National Marine Fisheries Service's *Caulerpa* Control Protocol (version 4), dated February 25, 2008, not more than 90 days before the initiation of construction to determine presence/absence of this species within the immediate vicinity of the project. If *Caulerpa taxifolia* is identified during a survey, or at any other time before, during, or within 120 days following completion of authorized activities, both National Marine Fisheries Service and California Department of Fish and Wildlife must be contacted within 24 hours of first noting the occurrence. In the event *Caulerpa taxifolia* is detected, all disturbing activity must cease until such time as the infestation has been isolated and treated, or the risk of spread from the disturbing activity is eliminated in accordance with the *Caulerpa* Control Protocol.
- D. **Hazardous Substance Discharge.** Except as provided in Water Code section 13271(b), 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.
- E. **Oil or Petroleum Product Discharge.** Except as provided in Water Code section 13272(b), 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.
- F. **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.

**G. 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.**
2. **Transfer of Mitigation Responsibility:** Any notification of transfer of responsibilities to satisfy the mitigation requirements set forth in this Certification must include a signed statement from an authorized representative of the new party (transferee) demonstrating acceptance and understanding of the responsibility to comply with and fully satisfy the mitigation conditions and agreement that failure to comply with the mitigation conditions and associated requirements may subject the transferee to enforcement by the San Diego Water Board under Water Code section 13385, subdivision (a). Notification of transfer of responsibilities meeting the above conditions must be provided to the San Diego Water Board **within 10 days of the transfer date.**
3. **Transfer of Post-Construction BMP Maintenance Responsibility:** The Applicant assumes responsibility for the inspection and maintenance of all post-construction structural BMPs until such responsibility is legally transferred to another entity. At the time maintenance responsibility for post-construction BMPs is legally transferred the Applicant must submit to the San Diego Water Board a copy of such documentation and must provide the transferee with a copy of a long-term BMP maintenance plan that complies with manufacturer specifications. The Applicant must provide such notification to the San Diego Water Board **within 10 days** of the transfer of BMP maintenance responsibility.

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.

## VIII. CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE

- A. The City of Coronado 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. The Lead Agency has determined the Project is categorically exempt.<sup>3</sup>
- 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, as proposed, is categorically exempt because the Project consists of reconstruction of existing structures where the new structures will be located on the same site as the structure replaced and will have substantially the same purpose and capacity as the structure replaced.<sup>4</sup>
- C. As a Responsible Agency under CEQA, the San Diego Water Board will file a Notice of Exemption in accordance with CEQA Guidelines section 15062.

## IX. SAN DIEGO WATER BOARD CONTACT PERSON

Lisa Honma, Environmental Scientist  
Telephone: 619-521-3367  
Email: [Lisa.Honma@waterboards.ca.gov](mailto:Lisa.Honma@waterboards.ca.gov)

## X. WATER QUALITY CERTIFICATION

I hereby certify that the proposed discharge from the 45 Port of Spain Dock Replacement Project (Certification No. R9-2018-0136) 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 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.

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<sup>3</sup> California Code of Regulations (CCR), Title 14, section 15302

<sup>4</sup> 14 CCR section 15302

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. R9-2018-0136 issued on November 1, 2018.



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DAVID W. GIBSON  
Executive Officer  
San Diego Water Board

1 November 2018  
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.

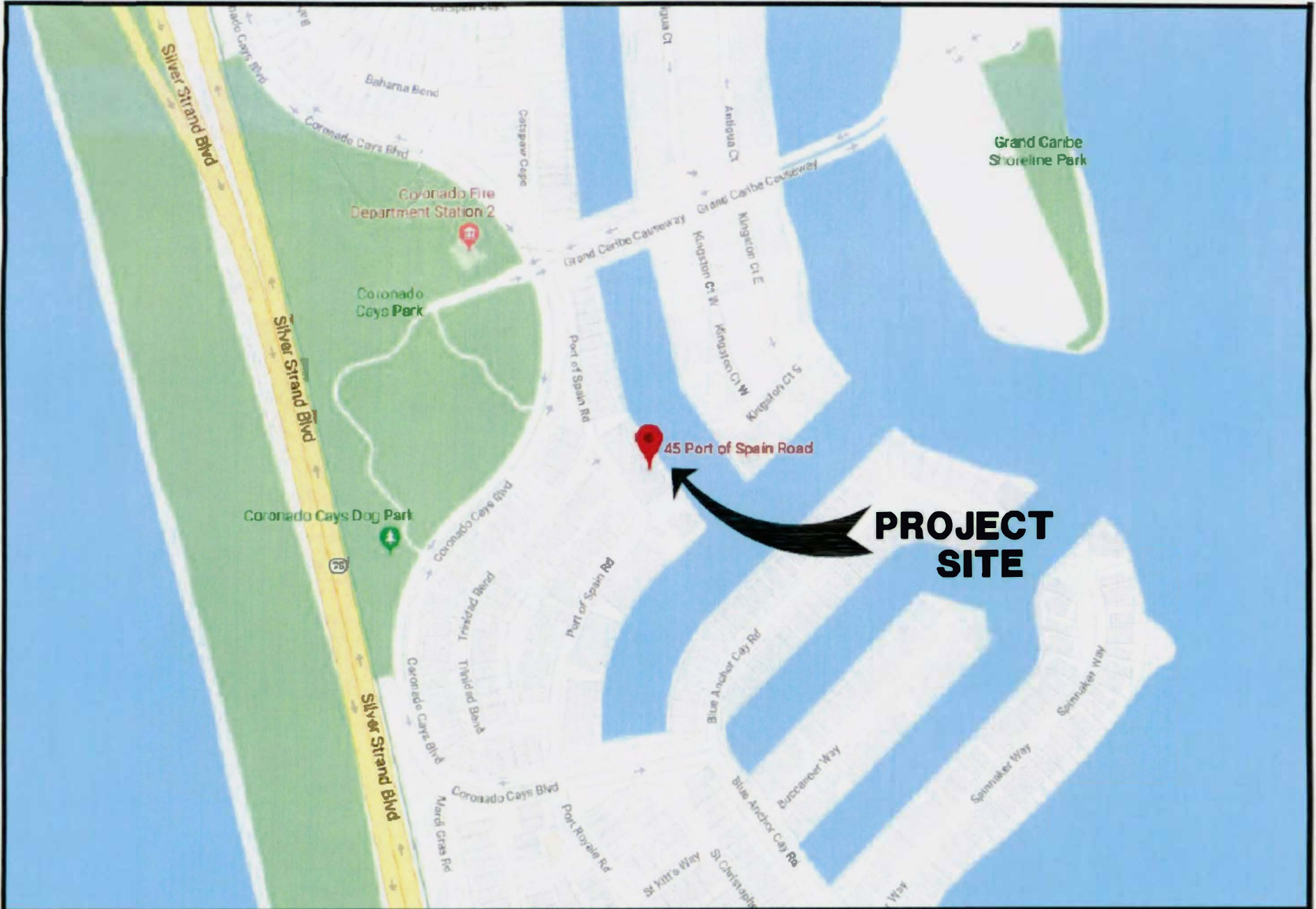
**Waters of the State** - means any surface water or groundwater, including saline waters, within the boundaries of the State. [Water Code section 13050, subd. (e)].



Ms. Nannette Netal  
45 Port of Spain Dock Replacement Project  
Certification No. R9-2018-0136

**ATTACHMENT 2**  
**PROJECT FIGURES AND PLANS**





Figure 1 – Vicinity Map  
Figure 2 – Project Location  
Installation Plans, Sheets S-1 through S-4



**FIGURE 1 - VICINITY MAP**

**Figure 2 - Project Location**  
**45 Port of Spain - old dock with common head dock**

**Legend**

-  45 Port of Spain Rd
-  Coronado Cays Association
-  Feature 1
-  Mike Peppard & Associates
-  Park



# STRUCTURAL GENERAL NOTES

## GENERAL REQUIREMENTS

- CONSTRUCTION SHALL BE IN CONFORMITY WITH THE 2016 EDITION OF THE CALIFORNIA BUILDING CODE (CBC) AND ALL APPLICABLE LOCAL AND STATE CODES AND ORDINANCES.
- SITE INSPECTION: THE CONTRACTOR SHALL EXAMINE THE PROJECT SITE & SHALL VERIFY ALL DIMENSIONS, LOCATIONS & ELEVATIONS OF THE EXISTING CONSTRUCTION. THE CONTRACTOR SHALL ALSO DILIGENTLY INVESTIGATE THE SITE FOR THE POSSIBLE EXISTENCE & LOCATION OF UNDERGROUND UTILITIES. PRIOR TO ORDERING ANY MATERIAL AND/OR COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES TO "PMA CONSULTING, INC." HEREINAFTER CALLED "THE ENGINEER". CONTRACTOR SHALL PROVIDE BARRICADES AND PEDESTRIAN PROTECTION AS REQUIRED BY STATE AND LOCAL CODES.
- CONTRACTOR SHALL CONSULT WITH REPRESENTATIVES OF CITY AND UTILITY COMPANIES CONCERNING AVAILABLE FACILITIES BEFORE COMMENCING WORK OR CONNECTING TO SEWER, PIPING OR WIRING, ETC., AND REPORT ANY PROBLEMS TO THE ENGINEER.
- CONTRACTOR SHALL FULLY PROTECT ALL ADJACENT PROPERTIES BEFORE COMMENCING ANY WORK.
- OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL INSTALL TEMPORARY TOILETS BEFORE START OF JOB.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.
- TYPICAL DETAILS SHOWN SHALL APPLY WHERE NO SPECIAL DETAIL IS SHOWN. WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION, OR A NOTE IS SHOWN FOR ONE CONDITION, IT SHALL ALSO APPLY FOR ALL LIKE OR SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
- DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS. DETAILED DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE OVER GENERAL DRAWINGS AND SPECIFICATIONS.
- WRITTEN DIMENSIONS (NOT SCALED DIMENSIONS) SHALL BE USED.
- WRITTEN ERECTION BRACING AND SHORING SHALL BE PROVIDED AS REQUIRED ON ALL STRUCTURES, ADEQUATE TO PROVIDE FULL STRUCTURAL STABILITY AND SAFETY. BRACING SHALL NOT BE REMOVED UNTIL THE ELEMENTS ARE FULLY CONNECTED AND ARE CAPABLE OF SUPPORTING THE DESIGN LOADING.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION NOT TO UNDERMINE ANY ADJACENT STRUCTURE DURING THE COURSE OF CONSTRUCTION.
- CLEAN UP: NO PAINT, PLASTER, CEMENT, SOIL, MORTAR OR OTHER RESIDUE SHALL BE ALLOWED TO ENTER THE BAY, STREETS, GUTTERS OR STORM DRAINS. ALL MATERIALS & WASTE SHALL BE REMOVED FROM THE SITE, NBMC 17.32.020.
- DEMOLITION: ALL MATERIAL FROM THE EXISTING BULKHEAD THAT IS NOT USED AS FILL SHALL BE REMOVED FROM THE SITE & DISPOSED OF IN AN OFFICIAL DUMP SITE.
- SEE THE LATEST "GENERAL GRADING SPECIFICATIONS" OF THE BUILDING DEPARTMENT FOR THE CITY'S: GENERAL NOTES, EROSION CONTROLS, REQUIRED SPECIFICATIONS, GRADING FILLS/CUTS & ALL NECESSARY DOCUMENTATION.
- POOLS, SPAS, FENCES, PATIO COVERS AND OTHER FREESTANDING STRUCTURES REQUIRE SEPARATE REVIEWS AND PERMITS.
- ALL A.S.T.M. SPECIFICATIONS NOTED ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF THE A.S.T.M.
- OBSERVATION VISITS TO THE PROJECT SITE BY THE ENGINEER SHALL NOT BE CONSTRUED AS ANY INSPECTION AS REQUIRED BY CODE.

## FOUNDATIONS

- PILING DESIGN IS BASED ON THE RECOMMENDATIONS CONTAINED IN TABLE 1806.2 OF THE CBC.

## SOLID SAWN MEMBERS AND GLU-LAM BEAMS

- ALL WOOD-CONSTRUCTION FINGERS SHALL HAVE FRAMING THAT INCLUDES CROSS-MEMBERS THAT PROVIDE RIGID CONNECTION TO THE FULL-LENGTH STRINGERS. ALL CONNECTIONS SHALL BE MADE USING THRU-BOLTS.
  - COMMERCIAL DOCK FRAMING: FOR INDEPENDENT LONG DOCKS THAT FLOAT FREELY AND DO NOT HAVE DOCKS AND/OR FINGERS ATTACHED FOR STABILITY, ALL PRIMARY LOAD CARRYING FRAMING MEMBERS SHALL BE FABRICATED FROM GLUED-LAMINATED BEAM CONSTRUCTION TO PREVENT WARPAGE OF THE MAJOR MEMBERS, CONTRIBUTING TO DOCK INSTABILITY.
  - ALLOWABLE STRESSES FOR HARBOR STRUCTURES SHALL NOT EXCEED THOSE STATED IN THE "CALIFORNIA BUILDING CODE".
  - TIMBER USED FOR WALKING DECKS SHALL HAVE A MINIMUM NET THICKNESS OF 1½ INCHES.
  - TIMBER FOR WALKING SURFACES SHALL BE DOUGLAS FIR, SELECT STRUCTURAL. SAWN TIMBER FOR OTHER FRAMING MEMBERS SHALL BE DOUGLASS FIR, No.1 MINIMUM.
  - GLUED-LAMINATED TIMBER SHALL BE DOUGLASS FIR 24F-V8, INDUSTRIAL GRADE FOR APPLICATION IN WET ENVIRONMENT. FABRICATION SHALL COMPLY WITH PRODUCT STANDARD PS 56-73, "STRUCTURAL GLUED LAMINATED TIMBER".
  - WALKING SURFACES SHALL HAVE A NON-SKID FINISH AND BE MAINTAINED PERIODICALLY OR WHEN WORN AND UNSAFE. TREATED TIMBER DECKING REQUIRES NO FURTHER NON-SKID FINISH.
  - DIMENSIONAL LUMBER IS NOT REQUIRED TO BE PAINTED, HOWEVER, IF THE APPLICANT CHOOSES TO PAINT, SUCH PAINT SHALL BE MAINTAINED TO GOOD CONDITION AND APPEARANCE.
  - PLYWOOD UTILIZED WITHIN DOCK FRAMING SYSTEM SHALL BE EXTERIOR GRADE MATERIAL. PLYWOOD SHALL NOT BE USED AS THE WALKING SURFACE FOR A DOCK SYSTEM, UNLESS THE PRODUCT CAN BE DEMONSTRATED TO THE CITY OF NEWPORT BEACH BUILDING DEPARTMENT THAT IT IS PROVIDED WITH A FACTORY-APPLIED PROTECTIVE, NON-SKID WALKING SURFACE THAT WILL BE DURABLE AND HAS A PROVEN PROCESS FOR PATCHING AND TOUCH-UP. INTERNAL PLYWOOD MEMBERS SHALL BE PROVIDED IN SUCH A MANNER THAT WATER CAN BE EASILY CONVEYED OFF THE TOP SURFACE OF THE PLYWOOD AND NOT POND OR GET TRAPPED, LEADING TO EARLY DETERIORATION AND DRY ROT.
  - WEIGHT OF TREATED DOUGLAS FIR SHALL BE ASSUMED TO BE 35 POUNDS PER CUBIC FOOT.
  - ALL TIMBER SHALL BE MARKED WITH THE APPROPRIATE GRADE OF MATERIAL AND PRESERVATIVE TREATMENT, OR MAY BE SUBJECT TO REJECTION BY THE CITY INSPECTOR.
    - ALL TIMBER PRODUCTS SHALL BE COATED WITH PRESERVATIVE TREATMENT TO RETENTION LIMITS RECOMMENDED BY THE AMERICAN WOOD PRESERVERS ASSOCIATION STANDARD M4 "STANDARD FOR THE CARE OF PRESERVATIVE-TREATED WOOD PRODUCTS" AND AWP STANDARD C2 "LUMBER, TIMBER, BRIDGE TIES & MINE TIES - PRESERVATIVE TREATMENT BY PRESSURE PROCESSES".
    - CURRENT STATE AND FEDERAL ENVIRONMENTAL REQUIREMENTS AND GUIDELINES FOR THE TYPE AND APPLICATION OF PRESERVATIVE TREATMENTS WILL BE STRICTLY ENFORCED.
    - ALL LUMBER MUST BEAR A STAMP BY THE AMERICAN LUMBER STANDARDS COMMITTEE FOR CONFORMANCE TO THE AMERICAN PRESERVERS ASSOCIATION STANDARDS.
    - FIELD CUTS AND BORED SHALL RECEIVE FIELD-APPLIED PRESERVATIVE TREATMENT IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES. PRESERVATIVE TREATMENT CHEMICALS SHALL NOT BE ALLOWED TO ENTER HARBOR WATERS.
- ALL BOLT HOLES IN WOOD MEMBERS SHALL BE A MINIMUM OF 3/8" TO A MAXIMUM OF 1/2" LARGER THAN THE BOLT DIAMETER. WOOD MEMBERS WITH HOLES NOT MEETING THE ABOVE CRITERIA SHALL BE REMOVED AND REPLACED.

## STEEL

- STRUCTURAL STEEL SHAPES AND PLATES SHALL CONFORM TO A.S.T.M. A572 GRADE 50 OR A992 WITH Fy = 50 KSI.
- STEEL PIPE COLUMNS AND OTHER STEEL PIPE STRUCTURAL MEMBERS SHALL CONFORM TO A.S.T.M. A53, GRADE B.
- STRUCTURAL STEEL TUBING SHALL CONFORM TO A.S.T.M. A500, GRADE B, Fy = 46 KSI.
- BOLTS SHALL CONFORM TO A.S.T.M. A307, UNLESS NOTED OTHERWISE. WHERE HIGH STRENGTH (H.S.) BOLTS ARE SPECIFIED, THEY SHALL BE MINIMUM 3/4" DIAMETER AND CONFORM TO A.S.T.M. A325 SC CLASS A UNLESS NOTED OTHERWISE ON THE PLANS. THE INSTALLATION OF H.S. BOLTS SHALL BE INSPECTED BY A REGISTERED DEPUTY INSPECTOR APPROVED BY THE BUILDING DEPARTMENT.
- ALL BOLTS HOLES IN STEEL MEMBERS SHALL BE STANDARD HOLES, U.N.O.
- STRUCTURAL STEEL "NELSON" STUDS SHALL BE MANUFACTURED FROM C1015, C1017 AND C1018 COLD DRIVEN STEEL CONFORMING TO A.S.T.M. A108-58T.
- LIGHT GAUGE STEEL MEMBERS SHALL CONFORM TO A.S.T.M. STANDARDS AS FOLLOWS:
  - FOR 18 GA. THICK AND LIGHTER STEEL : A446, GRADE A (GALVANIZED) OR A570, GRADE 33 OR A611, GRADE C - ALL HAVING MINIMUM OF 33 KSI YIELD STRENGTH.
  - FOR 16 GA. THICK AND HEAVIER STEEL : A446, GRADE D (GALVANIZED) OR A570, GRADE 50 OR A607, GRADE 50 - ALL HAVING MINIMUM OF 50 KSI YIELD STRENGTH.
- FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST EDITION OF A.I.S.C. SPECIFICATIONS.
- ALL HOLES FOR BOLTS IN STRUCTURAL STEEL SHALL BE DRILLED OR PUNCHED. BURNING OF HOLES SHALL NOT BE PERMITTED.
- ALL STEEL SHALL BE STAINLESS, HOT DIP GALVANIZED OR EPOXY COATED.

## STRUCTURAL ALUMINUM

- FABRICATION AND ERECTION OF STRUCTURAL ALUMINUM SHALL CONFORM TO THE ALUMINUM DESIGN MANUAL 2010 EDITION.
- ALL MATERIAL SHALL ME MARINE GRADE 6061-T6 SERIES ALUMINUM, UNLESS OTHERWISE NOTED.
- ALL FASTENERS SHALL BE 316SS AND SHALL CONFORM TO ASTM F593 AND F594, UNLESS OTHERWISE SPECIFIED.
- WELDS AND WELDING PROCEDURES SHALL CONFORM TO STRUCTURAL WELDING CODE AWS D1.2 OF THE AMERICAN WELDING SOCIETY AND WELDING SHALL BE PERFORMED BY WELDERS PRE-QUALIFIED FOR WELDING PROCEDURES TO BE USED.
- ALL WELDS SHALL BE CONTINUOUS 1/4" FILLET USING 4043 FILLER METAL, UNLESS OTHERWISE NOTED.
- ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE ARE EPOXY COATED.
- IN ORDER TO AVOID BIMETALLIC (GALVANIC) CORROSION RISK BY CONTACT OF DISSIMILAR MATERIALS, SUCH AS STEEL AND ALUMINUM, IT IS RECOMMENDED THAT RUBBER, PLASTIC, OR CERAMIC GASKETS SHALL BE UTILIZED AS REQUIRED.
- ALL MEASUREMENTS NEED TO BE FIELD VERIFIED PRIOR TO FABRICATION.

## WELDING

- ALL WELDING SHALL BE DONE USING THE SHIELDED ELECTRIC ARC PROCESS BY CERTIFIED WELDERS, USING E70XX ELECTRODES.
- WELDING OF STEEL REINFORCING BARS SHALL BE DONE WITH LOW HYDROGEN ELECTRODES, A233, CLASS E70XX SERIES.
- WELDS REQUIRING CONTINUOUS OR PERIODIC SPECIAL INSPECTION NEED NOT HAVE SPECIAL INSPECTION WHEN WELDING IS DONE IN AN APPROVED FABRICATOR'S SHOP. HOWEVER, THE APPROVED FABRICATOR MUST SUBMIT A CERTIFICATE OF COMPLIANCE IN ACCORDANCE WITH THE SECTION 1704.2.2 OF THE CBC.
- SPECIAL INSPECTION IS REQUIRED FOR ALL FIELD WELDINGS.

## CONCRETE

- ALL CONCRETE MIX DESIGNS, CONFORMING TO CBC SECTIONS 1904 & 1905, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL BEFORE ANY CONCRETE IS PLACED. ALL CONCRETE MIXES SHALL HAVE A MINIMUM CEMENT CONTENT OF 6.0 SACKS OF CEMENT PER CUBIC YARD OF MIX. ALL CONCRETE MIXES SHALL BE CERTIFIED BY A CONCRETE TESTING LABORATORY AND SIGNED BY A CALIFORNIA REGISTERED CIVIL ENGINEER.
- CONCRETE SHALL HAVE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 6000 PSI AND A 0.40 WATER-CEMENT RATIO.
- CONCRETE GROUT SHALL HAVE THE SAME COMPRESSIVE STRENGTH AS THE OTHER CONCRETE AND SHALL BE A SUITABLE MIX CONSISTING OF PEA GRAVEL, SAND, CEMENT AND WATER. MAXIMUM SLUMP SHALL BE 5 INCHES. AN APPROVED SUPERPLASTICIZER ADMIXTURE MAY BE ADDED TO INCREASE THE SLUMP TO MAXIMUM 7.5 INCHES. GROUT UNDER STEEL COLUMN BASE PLATES SHALL BE "RAPID-SET" OR "FIVE STAR GROUT" OR APPROVED EQUAL.
- CONCRETE SHALL BE DESIGNED FOR PERMEABILITY, STRENGTH, CHEMICAL STABILITY AND ABRASION RESISTANCE, APPROPRIATE FOR ITS APPLICATION. PORTLAND CEMENT SHALL CONFORM TO ASTM C 150 TYPE I OR TYPE II MODIFIED, AND LOW ALKALI. CHEMICAL ADMIXTURES SHALL CONFORM TO ASTM C 494. CHEMICALS DESIGNED TO LIMIT CORROSION OF INTERNAL REINFORCING MAY BE USED. AIR ENTRAINMENT ADMIXTURES SHALL CONFORM TO ASTM C 260. COARSE AND FINE AGGREGATE SHALL CONFORM TO ASTM C 33, AND ASTM C 330 WHERE LIGHTWEIGHT AGGREGATES ARE USED. LIGHTWEIGHT AGGREGATE, IF USED, SHALL CONSIST OF EXPANDED AND COATED SHALE OR EQUIVALENT MATERIAL OF SUFFICIENT STRENGTH AND DURABILITY TO PROVIDE CONCRETE OF THE REQUIRED STRENGTH.
- CONCRETE TEST SAMPLES SHALL BE TAKEN IN ACCORDANCE WITH A.S.T.M. AND CBC STANDARDS. RESULTS OF THE 7 & 28 DAY TESTS SHALL BE SUBMITTED TO THE ENGINEER FOR HIS RECORDS. SLUMP TESTS ARE REQUIRED FOR ALL TEST SAMPLES AND MUST ALSO BE REPORTED. ADDITIONALLY, ALL LIGHT WEIGHT CONCRETE SAMPLES MUST HAVE THEIR IN-PLACE DENSITIES DETERMINED AND REPORTED.
- SIDES OF FOOTING PADS MAY BE POURED AGAINST STABLE EARTH.
- SLURRY CONCRETE, WHERE SPECIFIED OR USED, SHALL HAVE A MINIMUM CEMENT CONTENT OF 1.5 SACKS OF CEMENT PER CUBIC YARD OF MIX.
- SEE ARCHITECTURAL NOTES FOR COLORED OR TEXTURED CONCRETE.
- CONCRETE FORM WORK TOLERANCES SHALL BE IN ACCORDANCE WITH CBC AND A.C.I. STANDARDS.
- ALL STEEL REINFORCING, ANCHOR BOLTS, DOWELS AND OTHER INSERTS SHALL BE SECURED IN POSITION AND INSPECTED BY THE LOCAL BUILDING DEPARTMENT INSPECTOR, PRIOR TO THE PLACING OF ANY CONCRETE.
- ALL NECESSARY BRACES, STRONGBACKS, PICK-UP INSERTS, BOLTS, ETC., FOR PRECAST CONCRETE PANELS SHALL BE DESIGNED BY OTHERS FOR SAFE ERECTION OF THE PANELS.
  - NO CALCIUM CHLORIDE SHALL NOT BE USED IN ANY CONCRETE.
  - ALL CONCRETE TO BE CURED FOR A MINIMUM OF 3 DAYS BY A METHOD ACCEPTABLE TO THE ENGINEER. FORMS MAY BE STRIPPED ONLY AFTER THE CONCRETE HAS ATTAINED MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
  - CHAMFER EXPOSED CORNERS 3/4" U.N.O.

## NAILING AND FASTENERS

- ALL NAILS AND FASTENERS SHALL BE CORROSION RESISTANT MEETING ASTM A153 CLASS D, HOT DIP GALVANIZED AND BE ACRYLIC ADHESIVE OR THERMAL PLASTIC RESIN LATEX ADHESIVE COATED.
- ALL NAILS SHALL BE 16d (0.148" DIAMETER) HELICAL THREAD NAILS, WITH MINIMUM BENDING YIELD STRENGTH OF F18 = 90,000 PSI, U.N.O.
- NAILING OTHER THAN ROOF OR FLOOR DIAPHRAGM SHOWN ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH TABLE 2304.9.1 OF THE CBC.
- NAILS FOR ROOF AND FLOOR SHEATHING SHALL HAVE A MIN OF 1½" PENETRATION INTO THE FRAMING MEMBERS.
- ALL HARDWARE SHALL BE CORROSION-RESISTANT COMPLYING WITH HDG G185 FINISH AND BE MANUFACTURED BY "SIMPSON STRONG-TIE CO., INC." (OR APPROVED EQUAL), AND SHALL HAVE A VALID ICC NUMBER ON THE PRODUCT, ANY DEVIATION FROM THE APPROVED PRODUCTS MUST BE APPROVED BY THE BUILDING DEPARTMENT, NOT BY THE FIELD INSPECTOR.
- ALL HARDWARE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. BLIND NAILING SHALL NOT BE ACCEPTABLE AND WILL BE REJECTED.
- WHERE MECHANICAL OR ADHESIVE ANCHORS/DOWELS ARE INDICATED ON DRAWINGS:
  - MECHANICAL ANCHORS SHALL BE HILTI KWIK BOLT KB-12 AND BE INSTALLED IN ACCORDANCE WITH ICC ESR-1917
  - ADHESIVE ANCHORS SHALL BE HILTI "HIT-HY 200 MAX-SD" ADHESIVE INSTALLED IN ACCORDANCE WITH ICC ESR-3187 OR SIMPSON STRONG-TIE "SET-XP EPOXY" ADHESIVE INSTALLED IN ACCORDANCE WITH ICC ESR-2508.
  - HOLES SHALL BE DRILLED WITH NON-REBAR-CUTTING DRILL BITS.
  - CONTINUOUS INSPECTION IS REQUIRED FOR THE INSTALLATION OF THE ALL ANCHORS/DOWELS BY A REGISTERED SPECIAL INSPECTOR APPROVED BY THE BUILDING DEPARTMENT. THE INSPECTOR SHALL VERIFY THE INSTALLATION OF ANCHORS/DOWELS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS INCLUDING CLEANLINESS OF DRILL HOLES AND PROPER EMBEDMENT.
  - UNLESS NOTED OTHERWISE ON THE DRAWINGS, USE MINIMUM 3/8" DIAMETER AT 24" ON CENTER WITH A MINIMUM OF 5" EMBEDMENT.

## ABBREVIATIONS

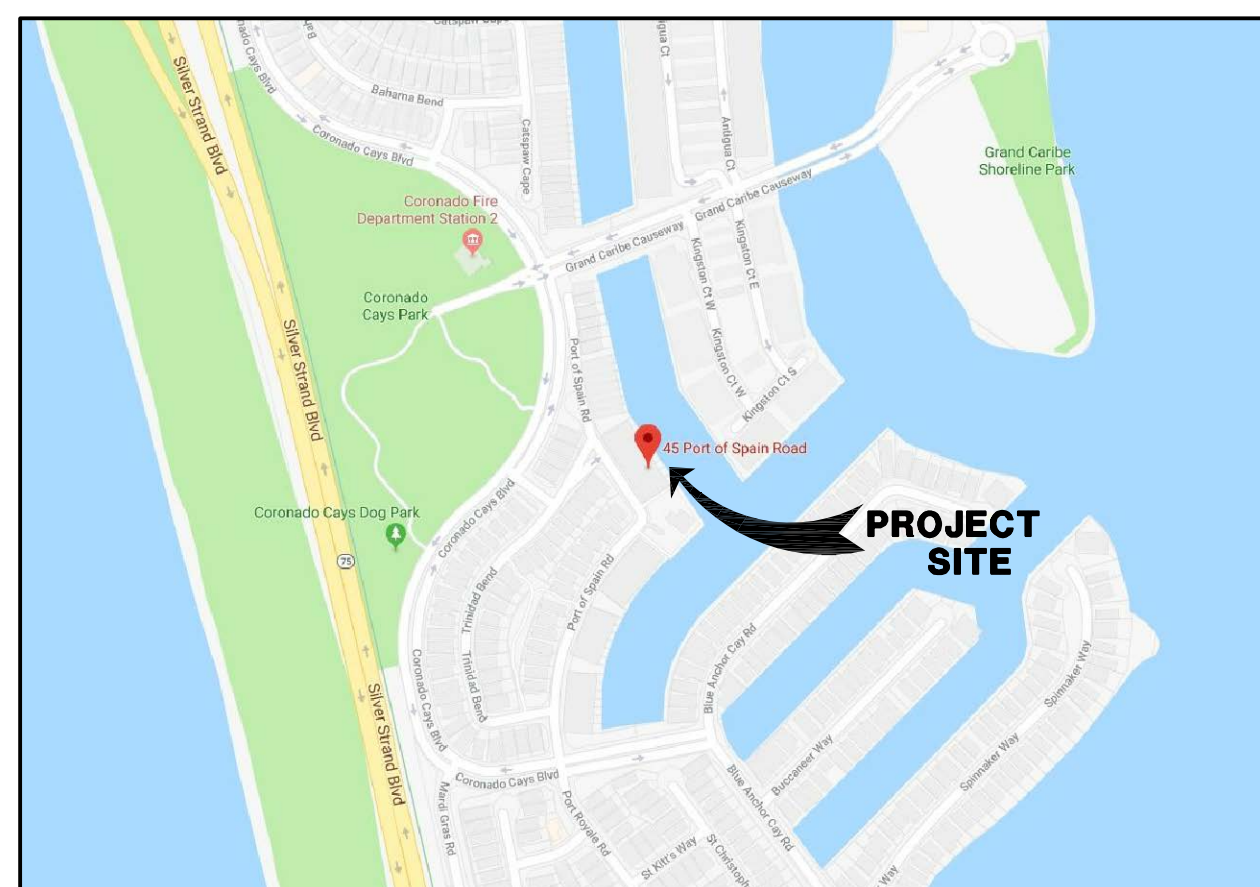
A.B. .... ANCHOR BOLT	DN ..... DOWN	HT ..... HEIGHT	OFF ..... OFFICE	T.F. .... TOP OF FOOTING
A.C. .... ASPHALT CONCRETE	DP ..... DEEP	H.S. .... HIGH STRENGTH	OPNG ..... OPENING	T.B. .... TOP OF BEAM
A/C ..... AIR CONDITIONING	D.S. .... DOWNSPOUT	HVAC ..... HEATING/VENTILATING & AIR CONDITIONING	OPP HD ..... OPPOSITE HAND	T.G. .... TOP OF GIRDER
A.C.P. .... ASPHALT CONCRETE PAVING	DWGS ..... DRAWINGS	IN ..... INCH	O.S.F. .... OUTSIDE FACE	THK ..... THICK
ADDL ..... ADDITIONAL	(E) ..... EXISTING	INFO ..... INFORMATION	P.C. .... PIPE COLUMN	THRU ..... THROUGH
A.F.F. .... ABOVE FINISH FLOOR	EA ..... EACH	INT ..... INTERIOR	PEN ..... PENETRATION	T.L. .... TOP OF LEDGER
ALUM ..... ALUMINUM	E.F. .... EACH FACE	J.B. .... JOIST BEARING	PL ..... PLATE OR PROPERTY LINE	T.N. .... TOP OF NAILER
ALT ..... ALTERNATE	ELEC ..... ELECTRICAL	J.C. .... JOIST GIRDER	PILAS ..... PLASTER	T.O. .... TOP OF
AND ..... ANOIZED	ELEV ..... ELEVATION	J.S. .... JOIST	PLYWD ..... PLYWOOD	T.O.P. .... TOP OF PARAPET/PANEL
ARCHT ..... ARCHITECTURAL	EMBD ..... EMBEDMENT, EMBEDDED	JST ..... JOIST	PSF ..... POUNDS PER SQUARE FOOT	T.O.S. .... TOP OF STEEL
B.B. .... BOTTOM OF BEAM	E.N. .... EDGE NAILING	JT ..... JOINT	PSI ..... POUNDS PER SQUARE INCH	T.O.T. .... TOTAL
BET ..... BETWEEN	EQ ..... EQUAL	K.O. .... KNOCK OUT	P.T. .... PRESERVATIVE TREATED	TRANSF ..... TRANSFER
BLOC ..... BUILDING	E.S. .... EACH SIDE	L ..... ANGLE	R.D. .... ROOF DRAIN	TRANSV ..... TRANSVERSE
BLKG ..... BLOCKING	E.W. .... EACH WAY	LAT ..... LATERAL	REBAR ..... REINFORCING BAR	TS ..... TUBE STEEL
BM ..... BEAM	EXIST ..... EXISTING	LDR ..... LEDGER	R.B. .... ROOF BEAM	T.S. .... TOP OF SLAB
B.N. .... BOUNDARY NAILING	EXP ..... EXPANSION	LO ..... LONG	REGD ..... REQUIRED	T.W. .... TOP OF WALL
BOT ..... BOTTOM	EXT ..... EXTERIOR	LH ..... LONG LEG HORIZONTAL	RENF ..... REINFORCING	TYP ..... TYPICAL
B.W. .... BOTTOM OF WALL	F.D. .... FLOOR DRAIN	LLV ..... LONG LEG VERTICAL	REF ..... REFERENCE	U.N.O. .... UNLESS NOTED OTHERWISE
CH ..... CHANNEL	FDN ..... FOUNDATION	LONGIT ..... LONGITUDINAL	REV ..... REVISION	VERT ..... VERTICAL
CANT ..... CANTILEVER	F.F. .... FINISH FLOOR	L.P. .... LOW POINT	R.I. .... ROOF JOIST	V.I.F. .... VERIFY IN FIELD
C.G. .... CENTER OF GRAVITY	F.G. .... FINISH GRADE	LT ..... LIGHT	RM ..... ROOM	W/ ..... WITH
C.J. .... CONSTRUCTION JOINT OR CEILING JOIST	FIN ..... FINISH	MATL ..... MATERIAL	R.O. .... ROUGH OPENING	WD ..... WOOD
CL ..... CENTER LINE	F.J. .... FLOOR JOIST	MAX ..... MAXIMUM	SCH ..... SCHEDULE	W ..... WIDE FLANGE
CLC ..... CEILING	FLG ..... FLANGE	M.B. .... MACHINE BOLT	SECT ..... SECTION	W/O ..... WITHOUT
CLF ..... CLEAR	FLR ..... FLOOR	MATL ..... MATERIAL	SHT ..... SHEET	W.P. .... WORK POINT
C.M.U. .... CONCRETE MASONRY UNIT	F.O.C. .... FACE OF CONCRETE	MAX ..... MAXIMUM	SM ..... SIMILAR	W.R. .... WATER RESISTANT
COL ..... COLUMN	F.O.M. .... FACE OF MASONRY	M.B. .... MACHINE BOLT	S.J. .... SAWCUT JOINT	WT ..... WEIGHT
COMPO ..... COMPOSITION	F.O.S. .... FACE OF STUD	MECH ..... MECHANICAL	S.P. .... SPLICE POINT	W.W.F. .... WELDED WIRE FABRIC
CONC ..... CONCRETE	F.H. .... FIELD NAILING	MEZZ ..... MEZZANINE	SPA ..... SPACING	X ..... EXTRA STRONG
CONN ..... CONNECTION	F.S. .... FAR SIDE	MFR ..... MANUFACTURED	SPCS ..... SPECIFICATIONS	XX ..... DOUBLE EXTRA STRONG
CONT ..... CONTINUOUS	FTG ..... FEET OR FOOT	MFR ..... MANUFACTURER	SD ..... SQUARE	
CONST ..... CONSTRUCTION	FTG ..... FOOTING	MIN ..... MINIMUM	STAG ..... STAGGERED	
CORR ..... CORRIDOR	GALV ..... GALVANIZED	MISC ..... MISCELLANEOUS	STD ..... STANDARD	
CTR ..... CENTER	GA ..... GAUGE	M.F.O. .... METAL FRAMED OPENING	STIFF ..... STIFFER	
DBL ..... DOUBLE	G.I. .... GALVANIZED IRON	MLB ..... MICRO-LAM BEAM	STL ..... STEEL	
DF ..... DOUGLAS FIR	GLB ..... GLU-LAM BEAM	M.P.H. .... MILES PER HOUR	S.S. .... SELECT STRUCTURAL OR STAINLESS STEEL	
D.F. .... DRINKING FOUNTAIN	GLP ..... GLU-LAM PURLIN	MTL ..... METAL		
DIAG ..... DIAGONAL	GYP BD ..... GYPSUM BOARD	(N) ..... NEW	STRUCT ..... STRUCTURAL	
DIAPH ..... DIAPHRAGM	HDR ..... HEADER	N.I.C. .... NOT IN CONTRACT	SYM ..... SYMMETRICAL	
DIA ..... DIAMETER	HGR ..... HANGER	NO. .... NUMBER	T & B ..... TOP & BOTTOM	
DIM ..... DIMENSION	HK ..... HOOK	N.S. .... NELSON STUD OR NEAR SIDE	T & G ..... TONGUE & GROVE	
	HORIZ ..... HORIZONTAL	N.T.S. .... NOT TO SCALE	TEMP ..... TEMPERED	
	H.P. .... HIGH POINT	O.C. .... ON CENTER		

## GENERAL SPECIAL INSPECTIONS

- PERIODIC (NON-CONTINUOUS) OR CONTINUOUS SPECIAL INSPECTION BY A CITY CERTIFIED DEPUTY INSPECTOR IS REQUIRED FOR THE FOLLOWING:
  - SITE CONCRETE WORK (COPING & ANCHOR BEAM) : .....NON-CONTINUOUS.
  - INSPECT SHEET PILE FOR LENGTH & DAMAGE : .....NON-CONTINUOUS.
  - T & G LOCKING OF PANELS : .....NON-CONTINUOUS.
  - ANCHOR ROD TENSIONING : .....NON-CONTINUOUS.
  - GROUTING OF PVC SLEEVES : .....NON-CONTINUOUS.
  - PILING INSTALLATION : .....NON-CONTINUOUS.
  - HELICAL ANCHORS INSTALLATION IN ACCORDANCE WITH SECTION 2.4.2. OF ICC ER-2794: .....NON-CONTINUOUS.
- CONTINUOUS SPECIAL INSPECTIONS IS REQUIRED FOR THE INSTALLATION OF ANCHOR BOLTS, ADHESIVE ANCHOR BOLTS, ADHESIVE DOWELS AND MECHANICAL ANCHORS IN ALL CONCRETE AND MASONRY WORKS.
- SPECIAL INSPECTIONS SHALL BE DONE BY ONE OR MORE REGISTERED DEPUTY (SPECIAL) INSPECTORS, APPROVED BY THE BUILDING DEPARTMENT ONLY, HIRED AND PAID FOR BY THE OWNER.
- SITE VISITS CONDUCTED BY THE ENGINEER ARE MERELY FOR OBSERVATION PURPOSE ONLY AND DO NOT CONSTITUTE AN INSPECTION.
- TWO (2) PROPERLY COMPLETED AND SIGNED COPIES OF THE SPECIAL INSPECTION AGREEMENT MUST BE SUBMITTED TO THE PERMIT SERVICES DIVISION PRIOR TO ISSUANCE OF THE PERMIT.
- AS A MINIMUM, THE DEPTH OF THE SEAWALL EMBEDMENT INTO THE GROUND SHALL BE AS SHOWN ON ELEVATIONS ON (S-1) AND MUST BE ACCURATELY MEASURED BY THE DEPUTY INSPECTOR. A COPY OF THE MEASUREMENT MUST BE SUBMITTED TO THE CITY & THE ENGINEER OF RECORD.
- SPECIAL INSPECTION IS REQUIRED FOR ALL NEW CONCRETE AND MASONRY CONSTRUCTION, INCLUDING REINFORCING STEEL.

ISSUANCE OF A BUILDING PERMIT BY THE CITY OF DOES NOT RELIEVE APPLICANTS OF THE LEGAL REQUIREMENTS TO OBSERVE COVENANTS, CONDITIONS AND RESTRICTIONS WHICH MAY BE RECORDED AGAINST THE PROPERTY OR TO OBTAIN PLANS. YOU SHOULD CONTACT YOUR COMMUNITY ASSOCIATION PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION AUTHORIZED BY THIS PERMIT.

PRIOR TO PERFORMING ANY WORK IN THE CITY RIGHT-OF-WAY AN ENCROACHMENT PERMIT MUST BE OBTAINED FROM THE PUBLIC WORKS DEPARTMENT.



## VICINITY MAP

## SCOPE OF WORK:

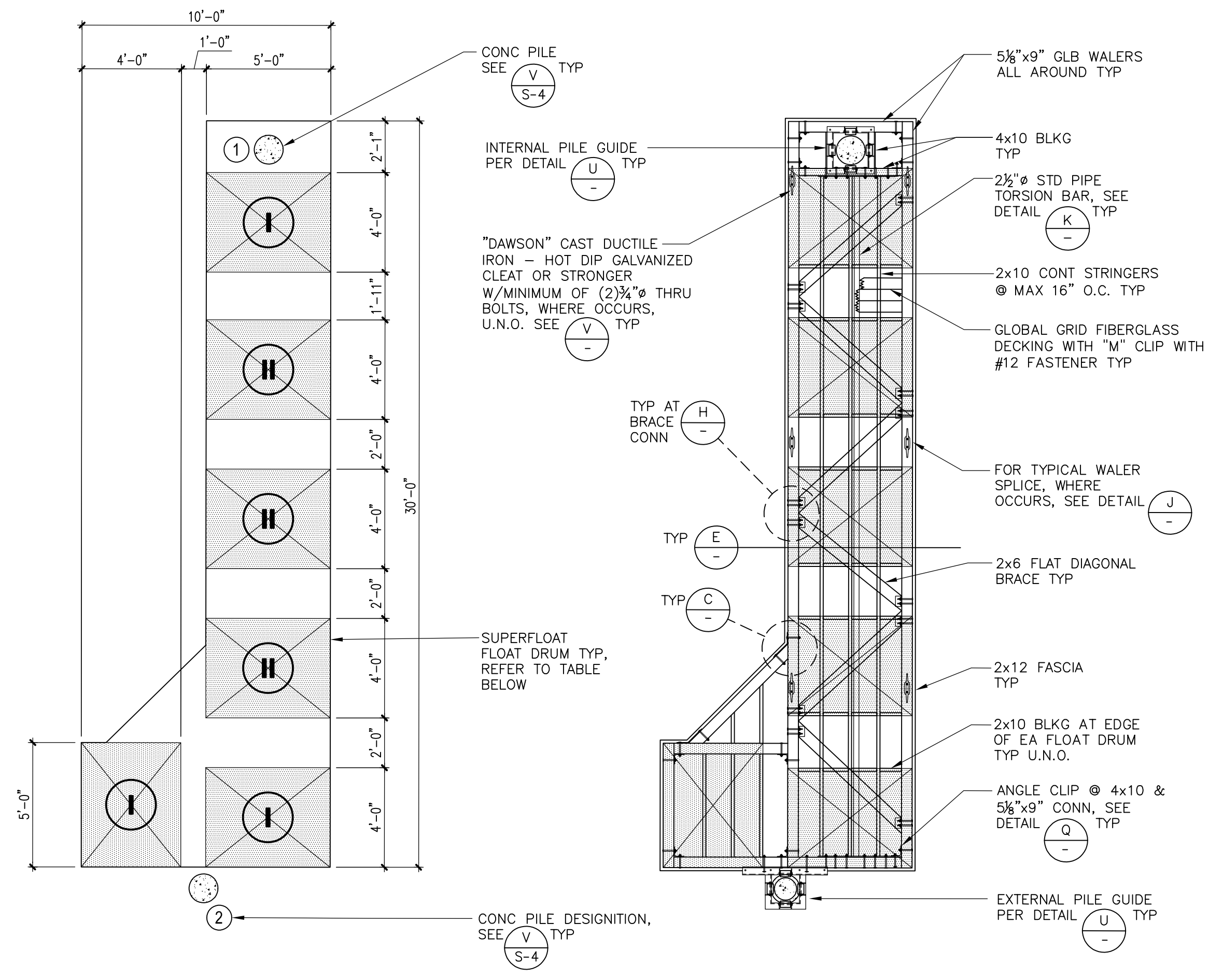
- TO BUILD AND INSTALL NEW FLOATING DOCK, GANGWAY AND CONCRETE PILES AS SHOWN ON S-2.

## NOTE TO THE BIDDERS:

- AFTER THOROUGHLY EXAMINING THE CONSTRUCTION DOCUMENTS AND THE SITE:
- NOTIFY THE ARCHITECT AND/OR THE ENGINEER IN WRITING, REGARDING ALL DISCREPANCIES REQUIRING CLARIFICATION, PRIOR TO THE "BID SUBMITTAL".
- IF THE ARCHITECT AND/OR THE ENGINEER IS NOT NOTIFIED, AS REQUIRED PER ITEM #1 ABOVE, IT SHALL MEAN THAT THE CONTRACTOR HAS CONSIDERED ADEQUATE CONTINGENCY IN HIS BID TO COVER ALL COSTS TO COMPLY WITH THE MOST STRINGENT CONDITIONS.
- THE CONTRACTOR SHALL NOT BE ENTITLED TO ANY ADDITIONAL COMPENSATION FOR ANY DISCREPANCY DISCOVERED AFTER THE "CLOSE OF THE BID".

DATE	02/08/2018	REVISIONS	NO	NO	NO	NO
JOB NO.	21517	OWNER / APPLICANT	Nannette Netal			
DRAWN	M. PETROVA	OWNER / APPLICANT	Nannette Netal			
CHECKED	P. PETROV	OWNER / APPLICANT	Nannette Netal			
SHEET	OF	OWNER / APPLICANT	Nannette Netal			
PILING, GANGWAY & FLOATING DOCK INSTALLATION LOCATED AT:		45 Port of Spain Road Coronado, CA 92118				
STRUCTURAL GENERAL NOTES & VICINITY MAP		45 Port of Spain Road Coronado, CA 92118				
PMA CONSULTING, INC.		PMA CONSULTING, INC.				
REGISTERED PROFESSIONAL ENGINEER		REGISTERED PROFESSIONAL ENGINEER				
No. C 66947		No. C 66947				
CIVIL		CIVIL				
28161 Custas Ct., Laguna Niguel, CA 92677		28161 Custas Ct., Laguna Niguel, CA 92677				
Phone: (714) 717-2742		Phone: (714) 717-2742				
E-Mail: P.Petrov@PMAV18C.com		E-Mail: P.Petrov@PMAV18C.com				

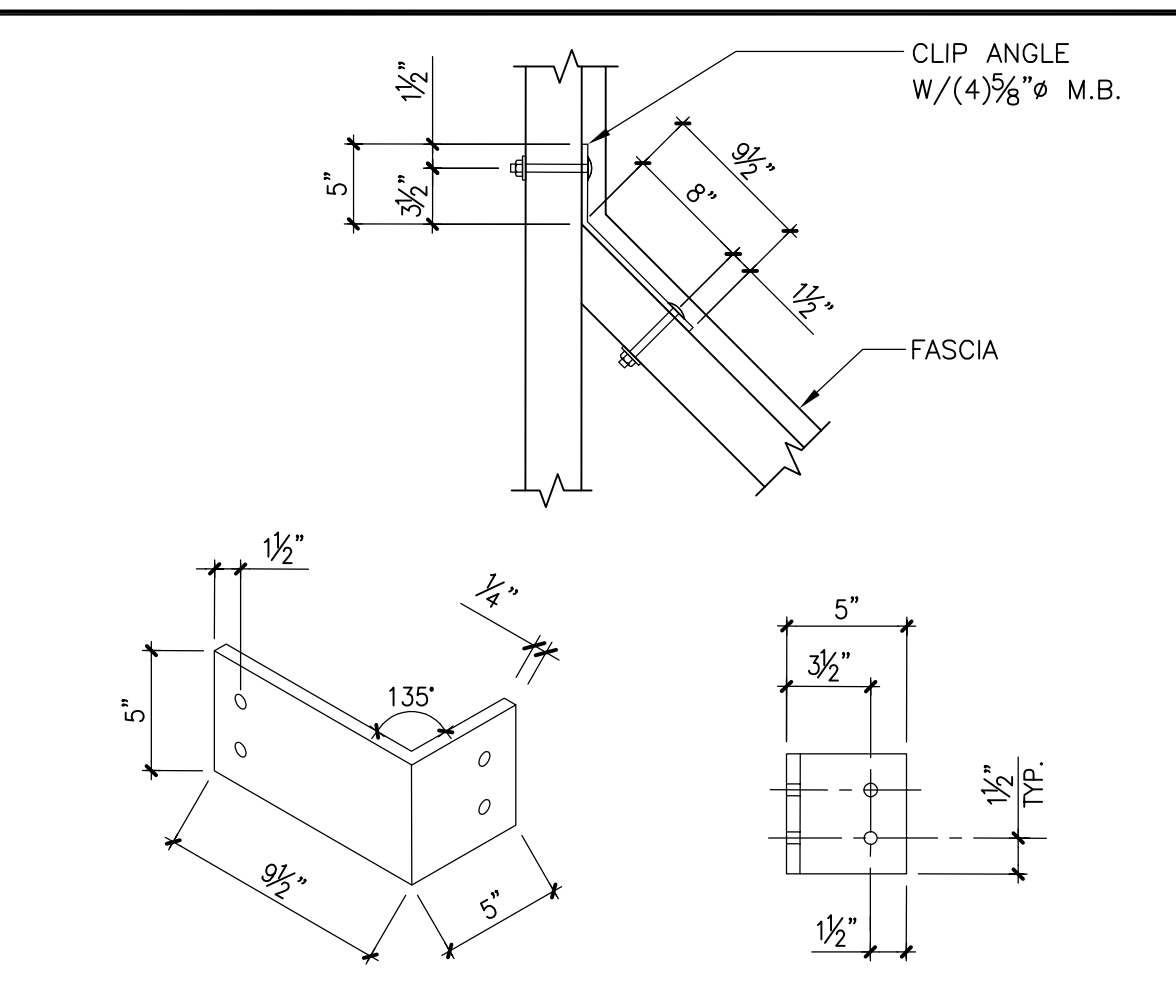




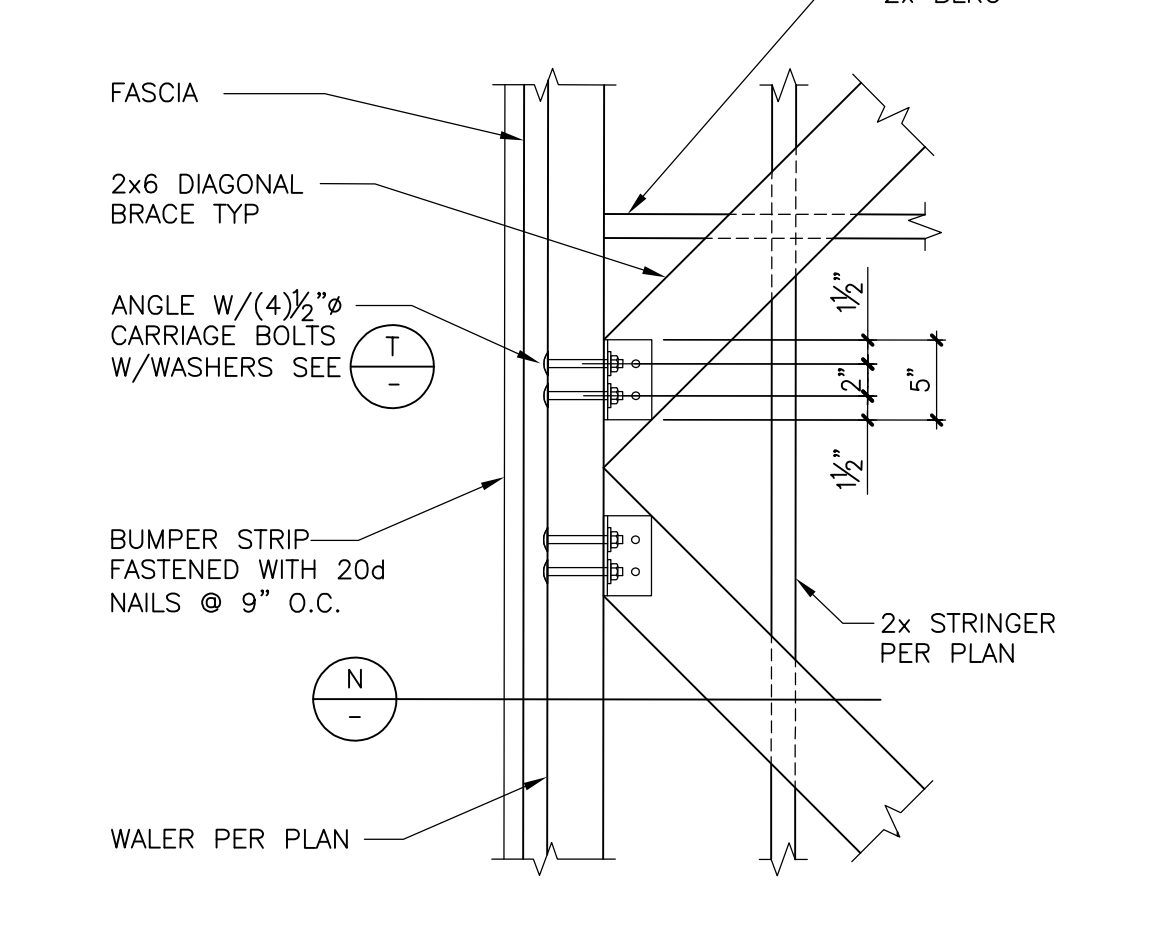
**FLOAT DRUMS PLAN**

**DOCK FRAMING PLAN**

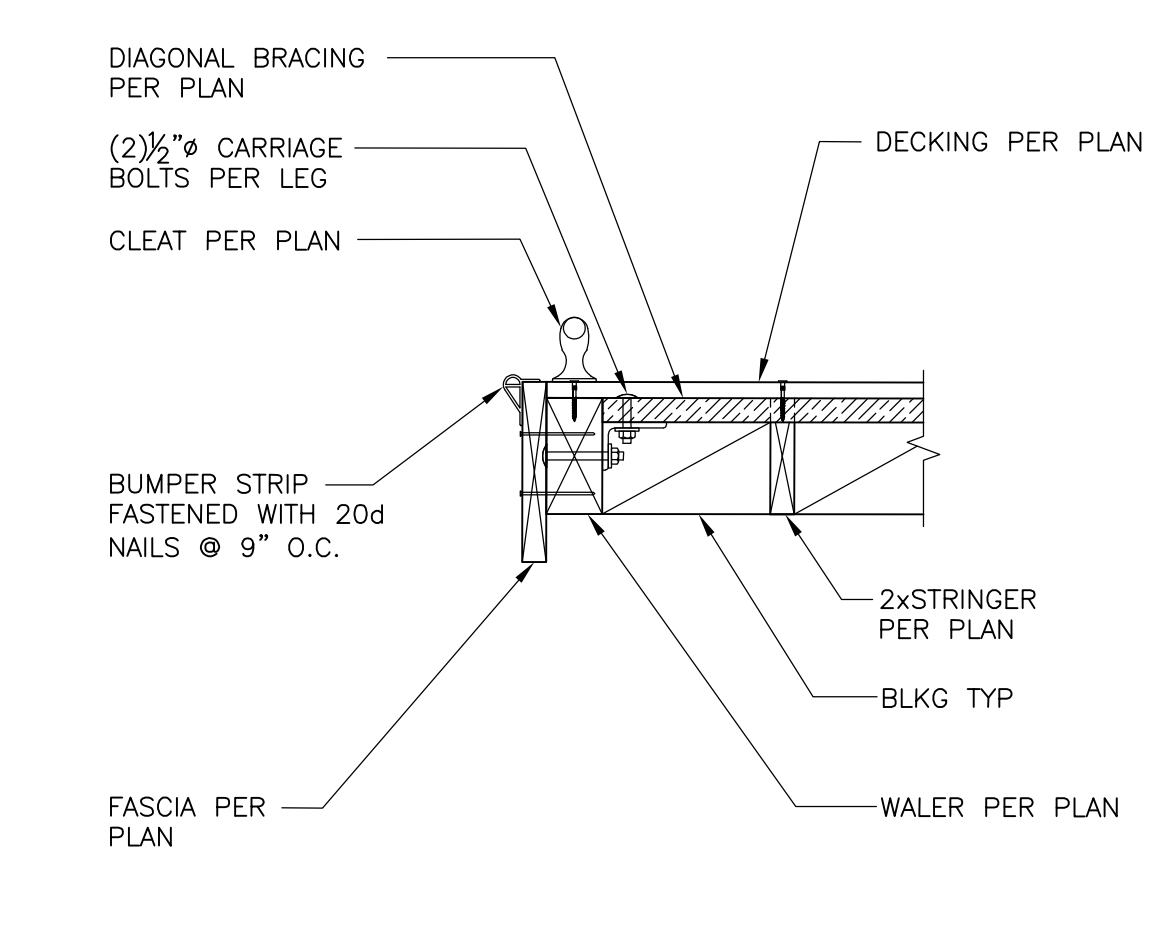
FLOAT DRUM SCHEDULE			
FLOAT DRUM TYPE	WIDTH	LENGTH	DEPTH
I	48"	60"	20"
II	48"	60"	16"



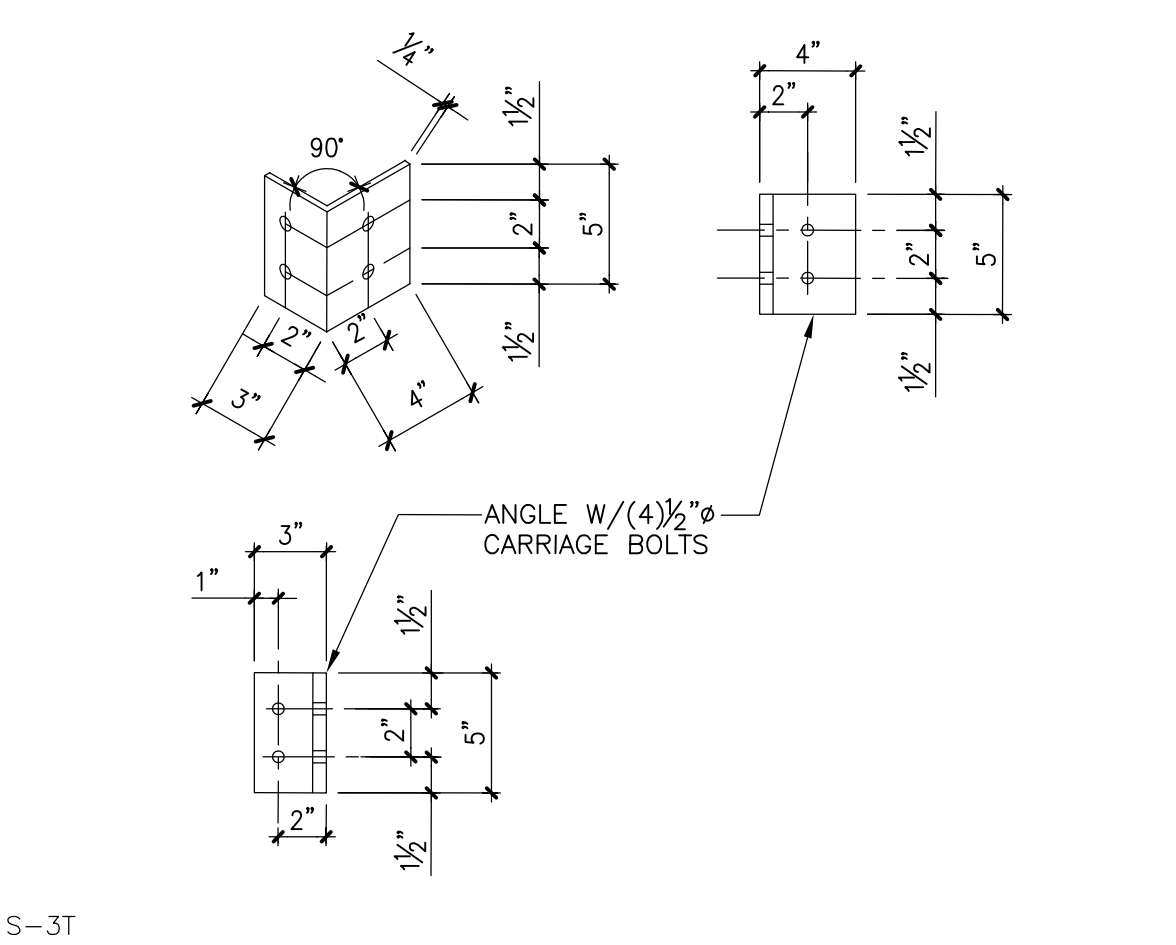
**CLIP ANGLE DETAIL**



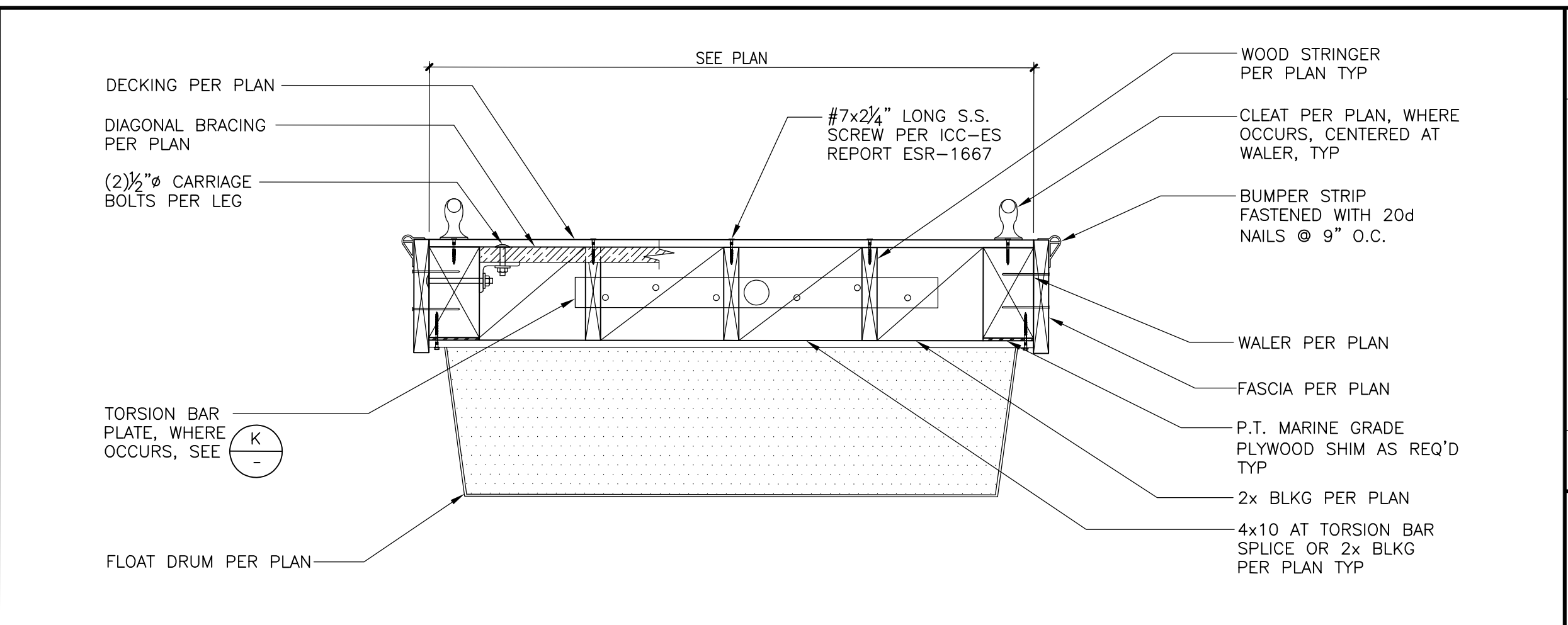
**CONNECTION DETAIL**



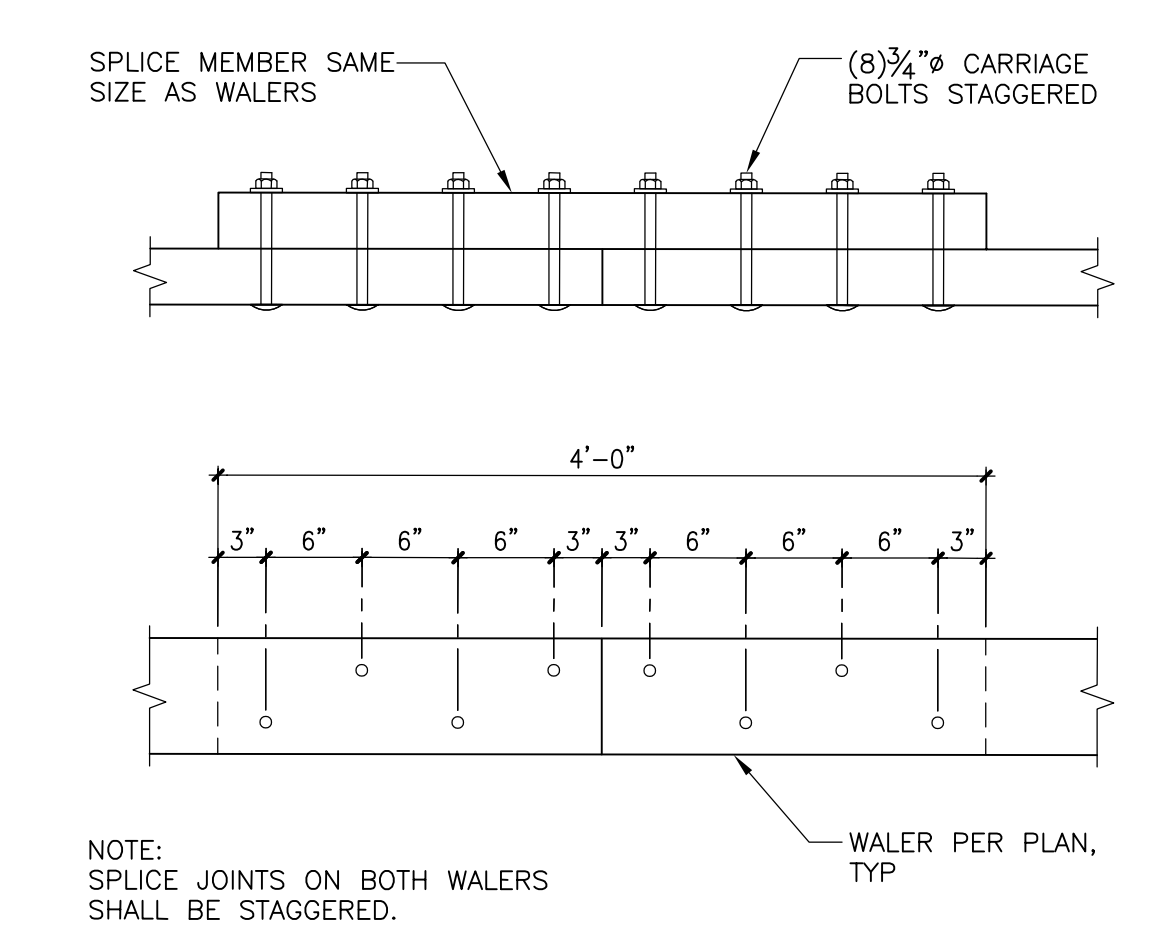
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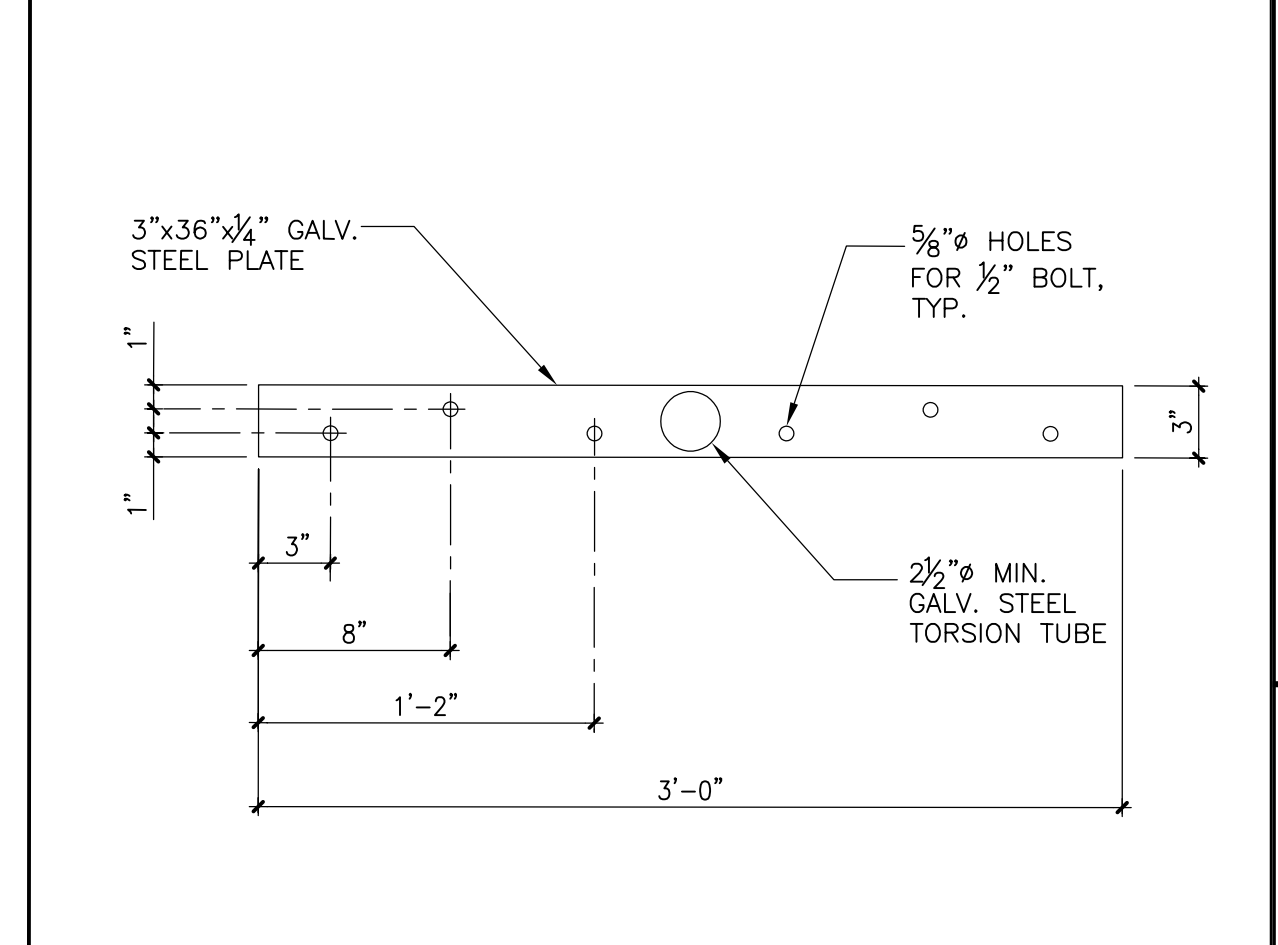
**CLIP ANGLE DETAIL**



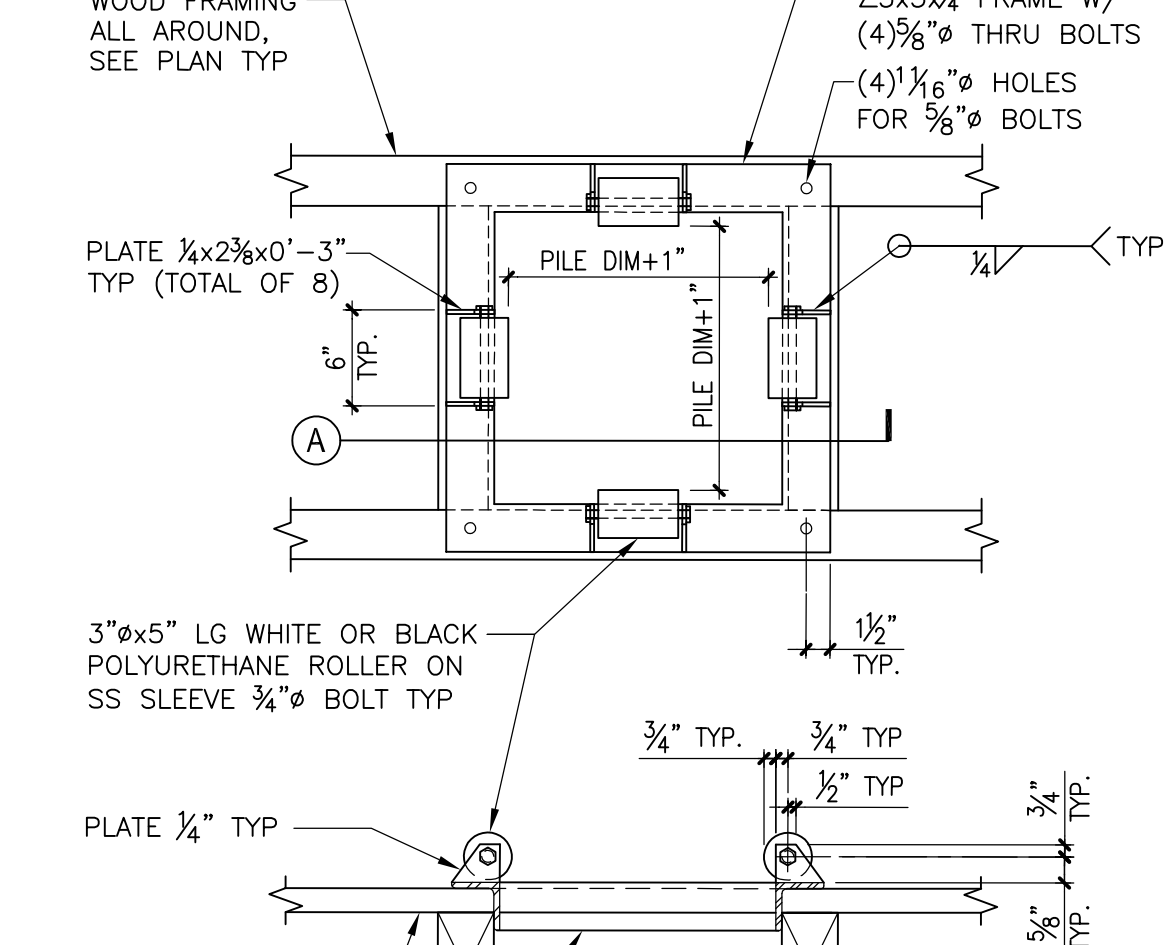
**SECTION AT FLOAT DRUM**



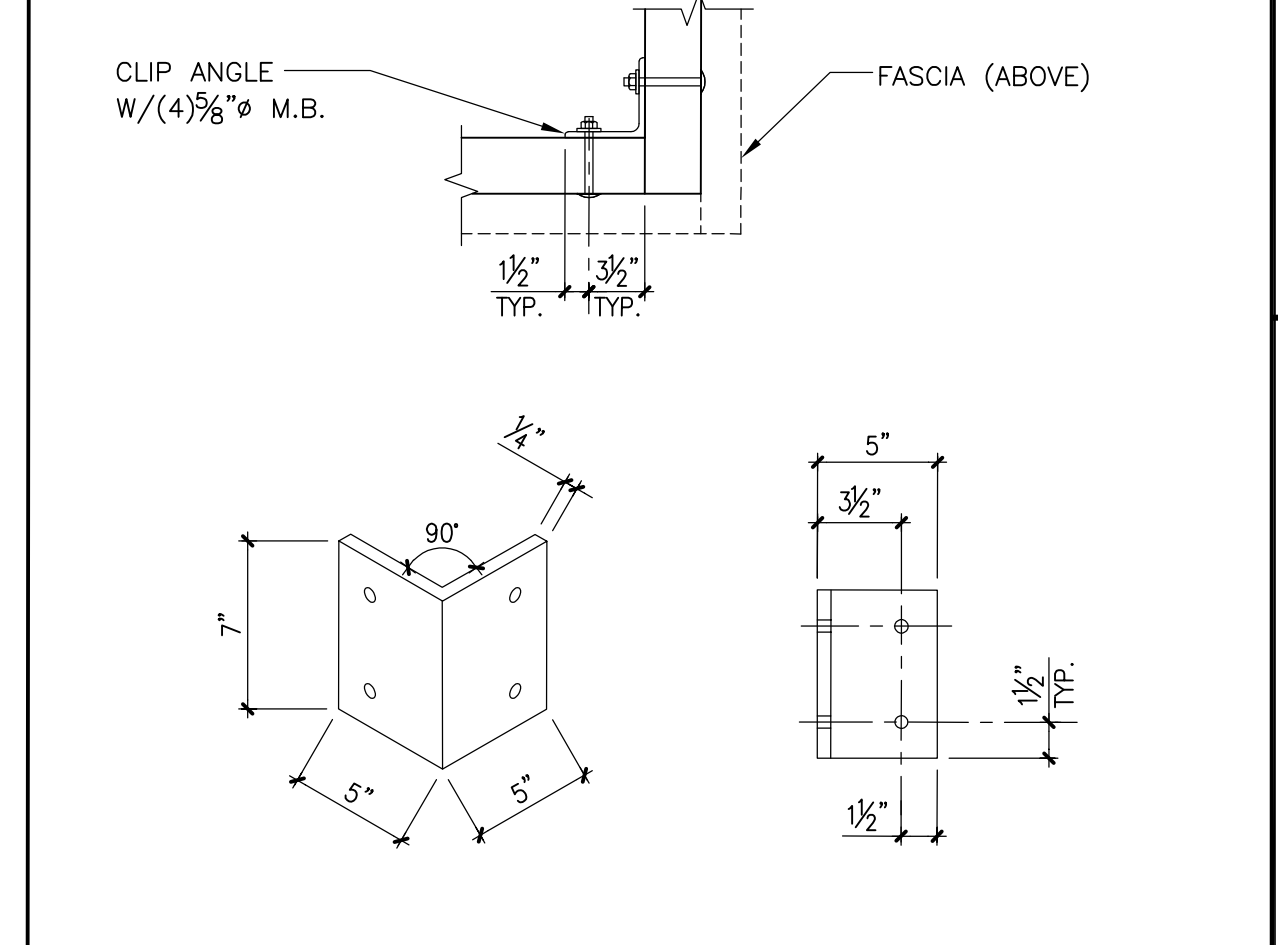
**TYPICAL SPLICE DETAIL**



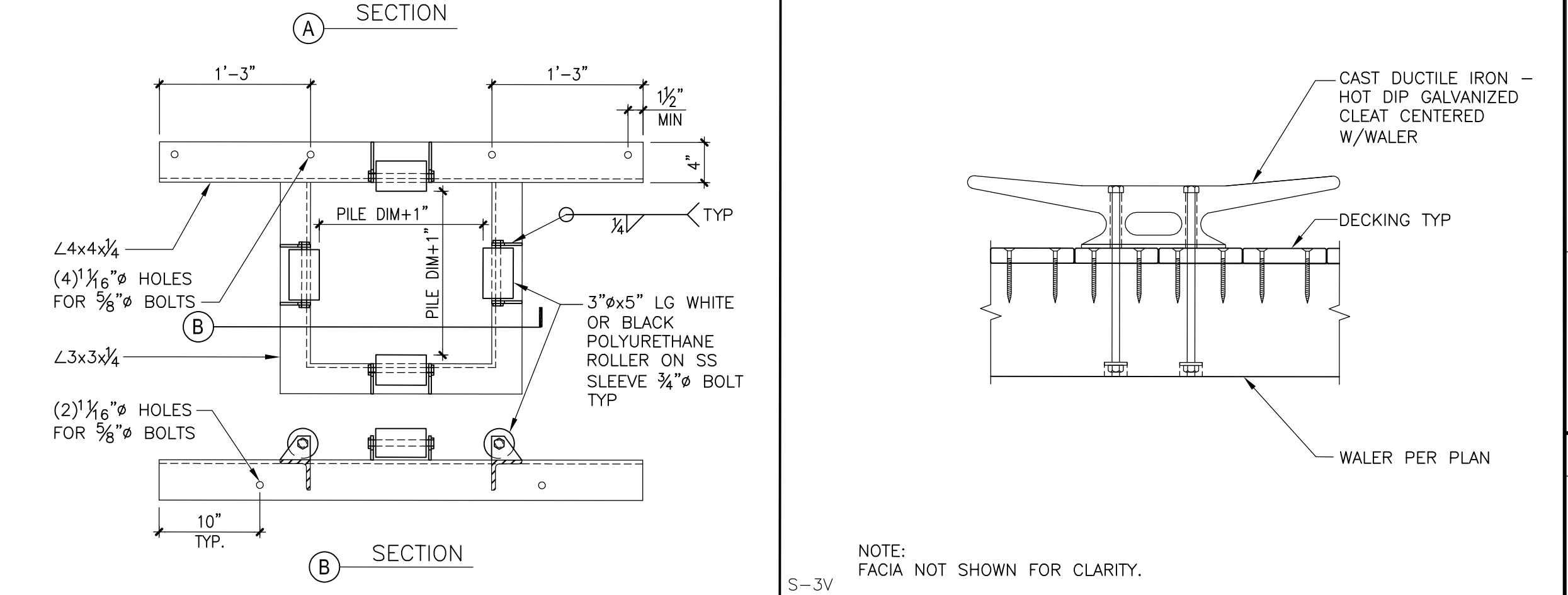
**TORSION TUBE PLATE DETAIL**



**PILE GUIDES DETAIL**



**CLIP ANGLE DETAIL**



**CLEAT DETAIL**

S-3S

S-3T

S-3V

FLOAT DRUMS PLAN & DOCK FRAMING PLAN	1/4"=1'-0"	S	CLIP ANGLE DETAIL	N.T.S.	1/2"=1'-0"	T	PILE GUIDES DETAIL	N.T.S.	U	CLEAT DETAIL	N.T.S.	1/2"=1'-0"	V
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REVISIONS

NO	DATE	REVISIONS

REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 No. C 66947  
 State of California  
 PMA Consulting, Inc.  
 Consulting Structural Engineers  
 28161 Coastway Ct., Laguna Hills, CA 92653  
 Phone: (714) 717-2542  
 E-Mail: P.Petrov@PMAV8C.com

OWNER / APPLICANT  
**Nannete Netal**  
 45 Port of Spain Road  
 Coronado, CA 92118

**PILING, GANGWAY & FLOATING DOCK  
 INSTALLATION LOCATED AT:  
 45 Port of Spain Road  
 Coronado, CA 92118**

FLOATING DOCK PLAN AND DETAILS

DATE: 02/08/2018  
 JOB NO.: 21517  
 DRAWN: M. PETROVA  
 CHECKED: P. PETROV

SHEET OF

**S-3**

