CALIFORNIA COASTAL COMMISSION

SOUTH CENTRAL COAST AREA 89 SOUTH CALIFORNIA ST., SUITE 200 VENTURA, CA 93001 (805) 585-1800

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STAFF REPORT: REGULAR CALENDAR

Application No.: 4-15-1991

Applicant: Ventura Harbor Boatyard, Inc.

Agent: Richard Parsons

Project Location: Ventura Harbor, 1415 Spinnaker Drive, Ventura

Project Description: Demolish and reconstruct a travelift pier and replace an adjoining

gangway and floating docks damaged in a boating accident.

Staff Recommendation: Approval with conditions

SUMMARY OF STAFF RECOMMENDATION

Staff recommends **approval** of the proposed development with six (6) special conditions regarding (1) eelgrass survey(s), (2) pre-construction *Caulerpa taxifolia* survey, (3) construction responsibilities and debris removal, (4) inspection and maintenance, (5) conformance with the requirements of other resource agencies, and (6) assumption of risk.

The Ventura Harbor Boatyard, Inc. is proposing to demolish and reconstruct one of two fingers of a travel lift pier used to transfer boats from the water to the boatyard. The subject 61 ft. long by 8 ft. wide north finger of the travelift pier was substantially damaged in a boating accident and is no longer safe to operate. The applicant also proposes to replace an adjoining 40 ft. x 4 ft. gangway and floating docks containing boat slips A3, A4, and A5 destroyed in the same accident, in approximately the same development footprint and same slip size. This project also includes the installation of 12 precast, pre-stressed concrete piles that will be used to anchor both the new north finger of the travelift pier and the adjoining timber docks in place. In order to securely anchor the north finger of the travelift pier, the new pier will extend two feet further

north than the existing pier. The floating docks will be manufactured offsite and comprised of a timber deck and supporting concrete floats.

In order to avoid impacts to public access during construction, the applicant proposes to re-route the existing sidewalk adjacent to the boatyard on a temporary basis on Monday-Friday during construction. There will be fencing between the temporary sidewalk and the work area with signage to assure public safety. The existing sidewalk will be open on weekends and after construction work hours.

The proposed project constitutes an allowable fill of coastal waters as the project was designed to be the least environmentally damaging option and adequate mitigation measures have been provided. However, any fill has the potential to impact coastal and marine resources and the biological productivity of coastal waters. Special Conditions 1 through 6 will ensure that the proposed project will result in minimal impacts to the Ventura Harbor marine environment.

Although the Commission has previously certified a Local Coastal Program (LCP) for the City of Ventura, the proposed project will be located within an area where the Commission has retained jurisdiction over the issuance of coastal development permits. Thus, the standard of review for this project is the Chapter Three policies of the Coastal Act, with the applicable policies of the City of Ventura LCP as guidance. As conditioned, the proposed project is consistent with all applicable Chapter Three policies of the Coastal Act.

TABLE OF CONTENTS

I.	MOTION AND RESOLUTION	4
	STANDARD CONDITIONS	
III.	SPECIAL CONDITIONS	5
IV.	FINDINGS AND DECLARATIONS	9
	A. Project Description and Background	9
	B. COMMERCIAL AND RECREATIONAL BOATING AND PUBLIC ACCESS	10
	C. MARINE RESOURCES AND WATER QUALITY	11
	D. DIKING, FILLING, AND DREDGING WITHIN OPEN COASTAL WATERS	15
	E. Hazards	
	F. CALIFORNIA ENVIRONMENTAL QUALITY ACT	18

APPENDICES

<u>Appendix A – Substantive File Documents</u>

EXHIBITS

Exhibit 1 – Vicinity Map

Exhibit 2 – Harbor Map

Exhibit 3 – Project Plans

I. MOTION AND RESOLUTION

Staff recommends that the Commission adopt the following resolution:

Motion:

I move that the Commission **approve** Coastal Development Permit Application No. 4-15-1991 pursuant to the staff recommendation.

Staff recommends a **YES** vote. Passage of this motion will result in approval of the permit as conditioned and adoption of the following resolution and findings. The motion passes only by affirmative vote of a majority of the Commissioners present.

Resolution:

The Commission hereby approves a coastal development permit and adopts the findings set forth below on grounds that the development as conditioned will be in conformity with the policies of Chapter 3 of the Coastal Act. Approval of the permit complies with the California Environmental Quality Act because either 1) feasible mitigation measures and/or alternatives have been incorporated to substantially lessen any significant adverse effects of the development on the environment, or 2) there are no further feasible mitigation measures or alternatives that would substantially lessen any significant adverse impacts of the development on the environment.

II. STANDARD CONDITIONS

This permit is granted subject to the following standard conditions:

- 1. **Notice of Receipt and Acknowledgement.** The permit is not valid and development shall not commence until a copy of the permit, signed by the permittee or authorized agent, acknowledging receipt of the permit and acceptance of the terms and conditions is returned to the Commission office.
- 2. **Expiration.** If development has not commenced, the permit will expire two years from the date on which the Commission voted on the application. Development shall be pursued in a diligent manner and completed in a reasonable period of time. Application for extension of the permit must be made prior to the expiration date.
- 3. **Interpretation.** Any questions of intent of interpretation of any condition will be resolved by the Executive Director of the Commission.
- 4. **Assignment.** The permit may be assigned to any qualified person, provided assignee files with the Commission an affidavit accepting all terms and conditions of the permit.

5. **Terms and Conditions Run with the Land.** These terms and conditions shall be perpetual, and it is the intention of the Commission and the permittee to bind all future owners and possessors of the subject property to the terms and conditions.

III. SPECIAL CONDITIONS

This permit is granted subject to the following special conditions.

- 1. Pre and Post-Construction Eelgrass Survey(s)
 - A. **Pre-Construction Eelgrass Survey**. A valid pre-construction eelgrass (*Zostera marina*) survey shall be completed during the period of active growth of eelgrass (typically March through October). The pre-construction survey shall be completed prior to the beginning of construction and shall be valid until the next period of active growth. The survey shall be prepared in full compliance with the "Southern California Eelgrass Mitigation Policy" dated October 2014 (except as modified by this special condition) adopted by the National Marine Fisheries Service (see
 - http://www.westcoast.fisheries.noaa.gov/habitat/habitat_types/seagrass_info/calif ornia_eelgrass.html) and shall be prepared in consultation with the California Department of Fish and Wildlife. The applicant shall submit the eelgrass survey for the review and approval of the Executive Director within five (5) business days of completion of each eelgrass survey and in any event no later than fifteen (15) business days prior to commencement of any development. If the eelgrass survey identifies any eelgrass within the project area which would be impacted by the proposed project, the development shall require an amendment to this permit from the Coastal Commission or a new coastal development permit in order to address and allow eelgrass mitigation measures, as described in subsection B, below. However, no amendment or new permit is needed if the Executive Director determines that no amendment or new permit is required.
 - В. Post-Construction Eelgrass Survey. If any eelgrass is identified in the project area by the survey required in subsection A of this condition above, within one month after the conclusion of construction, the applicant shall survey the project site to determine if any eelgrass was adversely impacted. The survey shall be prepared in full compliance with the "Southern California Eelgrass Mitigation Policy" dated October 2014 (except as modified by this special condition) adopted by the National Marine Fisheries Service (see http://www.westcoast.fisheries.noaa.gov/habitat/habitat types/seagrass info/calif ornia eelgrass.html) and shall be prepared in consultation with the California Department of Fish and Wildlife. The applicant shall submit the post-construction eelgrass survey for the review and approval of the Executive Director within thirty (30) days after completion of the survey. If any eelgrass has been impacted, the applicant shall replace the impacted eelgrass at a minimum 1.38:1 ratio onsite, or at another location, in accordance with the Southern California Eelgrass Mitigation Policy (SCEMP). All impacts to eelgrass habitat shall be mitigated at a

minimum ratio of 1.38:1 (mitigation:impact). The exceptions to the required 1.38:1 mitigation ratio found within SCEMP shall not apply. Implementation of mitigation shall require an amendment to this permit or a new coastal development permit unless the Executive Director determines that no amendment or new permit is required.

2. Pre-Construction Caulerpa Taxifolia Survey

- A. Not earlier than ninety (90) days and no later than thirty (30) days prior to commencement of any development authorized under this coastal development permit (the "project"), the applicant shall undertake a survey of the project area and a buffer area at least ten (10) meters beyond the project area to determine the presence of the invasive alga *Caulerpa taxifolia*. The survey shall include a visual examination of the substrate.
- B. The survey protocol shall be prepared in consultation with the Regional Water Quality Control Board, the California Department of Fish and Wildlife, and the National Marine Fisheries Service.
- C. Within five (5) business days of completion of the survey, the applicant shall submit the survey:
 - (1) for the review and approval of the Executive Director; and
 - (2) to the Surveillance Subcommittee of the Southern California Caulerpa Action Team (SCCAT). The SCCAT Surveillance Subcommittee may be contacted through William Paznokas, California Department of Fish & Wildlife (858-467-4218), William.Paznokas@wildlife.ca.gov) or Bryant Chesney, National Marine Fisheries Service (562-980-4037, Bryant.Chesney@noaa.gov), or their successors.
- D. If *Caulerpa taxifolia* is found within the project or buffer areas, the applicant shall not proceed with the project until: (1) the applicant provides evidence to the Executive Director that all *C. taxifolia* discovered within the project and/or buffer area has been eliminated in a manner that complies with all applicable governmental approval requirements, including but not limited to those of the California Coastal Act, or (2) the applicant has revised the project to avoid any contact with *C. taxifolia*. No revisions to the project shall occur without a Coastal Commission approved amendment to this coastal development permit unless the Executive Director determines that no amendment is legally required.
- 3. Construction Responsibilities and Debris Removal. By acceptance of this permit, the applicant agrees to comply with the following construction-related requirements:
 - A. No demolition or construction materials, equipment, debris, or waste shall be placed or stored in the water, or where it may enter sensitive habitat, receiving waters or a storm drain, or be subject to wave, wind, rain, or tidal erosion and dispersion;

- B. Any and all debris resulting from demolition or construction activities, and any remaining construction material, shall be removed from the water as quickly as possible in order to prevent the spread of invasive aquatic plant species (including but not limited to Japanese kelp), but in no case later than the end of each day;
- C. Demolition or construction debris and sediment shall be removed from work areas each day that demolition or construction occurs to prevent the accumulation of sediment and other debris that may be discharged into coastal waters;
- D. Machinery or construction materials not essential for project improvements will not be allowed at any time in water areas;
- E. If turbid conditions are generated during construction, a silt curtain will be utilized to control turbidity;
- F. Eelgrass shall not be disturbed. Anchors shall not be placed in eelgrass areas.
- G. Floating booms will be used to contain debris discharged into coastal waters and any debris discharged will be removed as soon as possible but no later than the end of each day;
- H. Non buoyant debris discharged into coastal waters will be recovered by divers as soon as possible after loss;
- I. All trash and debris shall be disposed in the proper trash and recycling receptacles at the end of every construction day;
- J. The applicant shall provide adequate disposal facilities for solid waste, including excess concrete, produced during demolition or construction;
- K. Debris shall be disposed of at a legal disposal site or recycled at a recycling facility. If the disposal site is located in the coastal zone, a coastal development permit or an amendment to this permit shall be required before disposal can take place unless the Executive Director determines that no amendment or new permit is legally required;
- L. All stock piles and construction materials shall be covered, enclosed on all sides, shall be located as far away as possible from drain inlets and any waterway, and shall not be stored in contact with the soil;
- M. Machinery and equipment shall be maintained and washed in confined areas specifically designed to control runoff. Thinners or solvents shall not be discharged into sanitary or storm sewer systems;
- N. The discharge of any hazardous materials into any receiving waters shall be prohibited;
- O. Spill prevention and control measures shall be implemented to ensure the proper handling and storage of petroleum products and other construction materials.

- Measures shall include a designated fueling and vehicle maintenance area with appropriate berms and protection to prevent any spillage of gasoline or related petroleum products or contact with runoff. The area shall be located as far away from the receiving waters and storm drain inlets as possible;
- P. Best Management Practices (BMPs) and Good Housekeeping Practices (GHPs) designed to prevent spillage and/or runoff of demolition or construction-related materials, and to contain sediment or contaminants associated with demolition or construction activity, shall be implemented prior to the on-set of such activity; and
- Q. Any wood treatment used shall conform to the specifications of the American Wood Preservation Association for saltwater use. Wood treated with Creosote, CCA (Chromated Copper Arsenate), or ACA (Ammoniacal Copper Arsenate) is prohibited. No wood treated with ACZA (Ammoniacal Copper Zinc Arsenate) shall be used where it could come into direct contact with the water. All treated timber shall be free of chromium and arsenic.
- R. All BMPs shall be maintained in a functional condition throughout the duration of construction activity.
- 4. **Inspection and Maintenance Program.** Throughout the life of the development approved by this permit, the permittee shall exercise due diligence in periodically inspecting (at least once per year) the facilities that are subject to this coastal development permit. The permittees shall immediately undertake any repairs necessary to maintain the structural integrity of the docks, pilings, and utility connections, prevent leaks, and to ensure that debris does not enter the environment.
- 5. Conformance with the Requirement of Other Resource Agencies. The applicant shall comply with all permit requirements, and mitigation measures of the California Department of Fish and Wildlife, State Water Quality Control Board, Regional Water Quality Control Board, U.S. Army Corps of Engineers, and the U.S. Fish and Wildlife Service with respect to preservation and protection of water quality and the marine environment. Any change in the approved project which may be required by the above-stated agencies shall be submitted to the Executive Director in order to determine if the proposed change shall require a permit amendment pursuant to the requirements of the Coastal Act and the California Code of Regulations.
- 6. **Assumption of Risk, Waiver of Liability and Indemnity.** By acceptance of this permit, the applicant acknowledges and agrees (i) that the site may be subject to hazards from storm waves, tsunami, surges, and flooding; (ii) to assume the risks to the applicant and the property that is the subject of this permit of injury and damage from such hazards in connection with this permitted development; (iii) to unconditionally waive any claim of damage or liability against the Commission, its officers, agents, and employees for injury or damage from such hazards; and (iv) to indemnify and hold harmless the Commission, its officers, agents, and employees with respect to the Commission's approval of the project against any and all liability, claims, demands, damages, costs (including costs and fees

incurred in defense of such claims), expenses, and amounts paid in settlement arising from any injury or damage due to such hazards.

Prior to commencement of development, the applicant shall submit a written agreement, in a form and content acceptable to the Executive Director, incorporating all of the above terms of this condition.

IV. FINDINGS AND DECLARATIONS

A. PROJECT DESCRIPTION AND BACKGROUND

The Ventura Harbor Boatyard, Inc. is proposing to demolish and reconstruct one of two fingers of a travel lift pier used to transfer boats from the water to the boatyard. The subject 61 ft. long by 8 ft. wide by 1.5 ft. thick north finger of the travelift pier was substantially damaged in a boating accident and is no longer safe to operate. The applicant also proposes to replace an adjoining 40 ft. x 4 ft. gangway and floating docks containing boat slips A3, A4, and A5 destroyed in the same accident, in approximately the same development footprint. This project also includes the installation of 12 precast, pre-stressed concrete piles that will be used to anchor both the new north finger of the travelift pier and the adjoining timber docks in place. In order to securely anchor the north finger of the travelift pier, the new pier will extend two feet further north than the existing pier. The floating docks will be manufactured offsite and comprised of a timber deck and supporting concrete floats.

The City of Ventura's certified Land Use Plan (LUP) divides the Ventura Harbor into four areas: South Peninsula Harbor Area, Southwest Harbor Area, Central Harbor Area, and the Northeast Harbor Area. The Ventura Harbor Boatyard, Inc. is located within the Southwest Harbor Area. The Ventura Harbor consists of 200 acres of land and 120 acres of water. Development of the harbor began in 1960. The entire harbor supports approximately 1,400 boat berths, a boat launching facility, public restrooms, a boat repair yard, fuel docks, charter fishing operations, commercial fishing support facilities, and the Harbor Patrol. The Ventura Harbor Boatyard, Inc was constructed in 1981 primarily to service recreational boating and commercial fishing vessels. Central to the operations is a pier extending from the boatyard to the water which is split into two "fingers" (north and south fingers) and contains two travelifts, – one designed for smaller vessels, and the other, for larger vessels – and supporting docks which allow Ventura Harbor Boatyard, Inc. to remove and deploy vessels from and into the water respectively. The application for the proposed project concerns the smaller, northernmost of the two travelift piers.

The proposed project was necessitated after a vessel lost control and collided into the north finger of the travelift pier and adjoining timber docks. As a result, the concrete guide piles supporting the subject travelift pier suffered structural damage (as indicated by several horizontal cracks) and the adjoining timber docks containing boat slips A3, A4, and A5 were completely obliterated. The adjoining gangway also suffered some minor damage and was removed from the water for repair. All of the debris resulting from the accident was immediately removed from the marine environment.

Demolition of the existing north finger of the travelift pier will consist of saw cutting the deck into large-sized pieces. Each saw-cut piece will be removed intact by a 110-ton crawler crane, positioned onto the existing landslide apron of the travelift pier. Concrete rubble will be loaded onto trucks and hauled away to the local recycling plant. The precast concrete guide piles will be removed by saw-cutting two feet below the existing mudline. The cut piles will also be loaded onto trucks and hauled to the recycling plant. Reconstruction of the subject travelift pier and adjoining timber docks will begin with the placement of unpreserved, precast, pre-stressed concrete piles. The concrete deck portion of the pier will be constructed by the cast-in-place method. The floating dock assemblies will be manufactured off site and delivered by a truck to a designated staging area where they will be off-loaded by a small shore-based crane, placed directly into the water, and assembled by hand. The concrete used for the floating docks will be six-sided precast concrete shells that encase polystyrene foam floation billets. The dock modules will be connected together with treated timber wales. The wales will be treated with Ammoniacal Copper Zinc Arsenate (AZCA) and will not be in contact with the water.

In order to avoid impacts to public access during construction, the applicant proposes to re-route the existing sidewalk adjacent to the boatyard on a temporary basis on Monday-Friday during construction. There will be fencing between the temporary sidewalk and the work area with signage to assure public safety. The existing sidewalk will be open on weekends and after construction work hours.

Although the Commission has previously certified a Local Coastal Program (LCP) for the City of San Buenaventura (Ventura), the proposed project will be located within an area where the Commission has retained jurisdiction over the issuance of coastal development permits. Thus, the standard of review for this project is the Chapter Three policies of the Coastal Act, with the applicable policies of the City of Ventura LCP as guidance.

B. COMMERCIAL AND RECREATIONAL BOATING

Section 30234 of the Coastal Act states:

Facilities serving the commercial fishing and recreational boating industries shall be protected and, where feasible, upgraded. Existing commercial fishing and recreational boating harbor space shall not be reduced unless the demand for those facilities no longer exists or adequate substitute space has been provided. Proposed recreational boating facilities shall, where feasible, be designed and located in such a fashion as not to interfere with the needs of commercial fishing.

Section 30234.5 of the Coastal Act states:

The economic, commercial, and recreational importance of fishing activities shall be recognized and protected.

Coastal Act Section 30234 and 30234.5 requires that facilities serving the commercial fishing and recreational boating industries shall be protected and where feasible, upgraded.

The purpose of the proposed project is to reconstruct the small travelift pier and adjoining docks so that the Ventura Harbor Boatyard, Inc. can continue to service recreational boating and commercial fishing vessels. While the small travelift pier has been out of service, the Ventura Harbor Boatyard, Inc. has been using their larger travelift pier - at a higher operating cost as the larger travelift pier is designed to lift larger vessels weighing up to 150 tons - to provide the same services that the small travelift pier provided. The primary purpose of docks adjoining the small travelift pier was solely for the support of the travelift pier operations. The slips were, on occasion, temporarily rented to the public whenever the Ventura Harbor Boatyard, Inc. had availability. The slips are proposed to be replaced in kind in the same approximate footprint and with the same slip length as the previously existing slips. As such, the proposed project will not affect the existing mix of slip sizes within Ventura Harbor. As such, the replacement of slips will not adversely impact commercial fishing or recreational boating opportunities for a mix of vessel sizes. The proposed project will serve to repair and replace the boatyard's facilities for the support of commercial and recreation boating through the maintanence and repair of boats.

Therefore, the Commission finds that the proposed project is consistent with Coastal Act policies 30234 and 30234.5.

C. MARINE RESOURCES AND WATER QUALITY

Section 30230 of the Coastal Act states:

Marine resources shall be maintained, enhanced, and where feasible, restored. Special protection shall be given to areas and species of special biological or economic significance. Uses of the marine environment shall be carried out in a manner that will sustain the biological productivity of coastal waters that will maintain healthy populations of all species of marine organisms adequate for long-term commercial, recreational, scientific, and educational purposes.

Section 30231 of the Coastal Act states:

The biological productivity and the quality of coastal waters, streams, wetlands, estuaries, and lakes appropriate to maintain optimum populations of marine organisms and for the protection of human health shall be maintained and, where feasible, restored through, among other means, minimizing adverse effects of waste water discharges and entrainment, controlling runoff, preventing depletion of ground water supplies and substantial interference with surface water flow, encouraging waste water reclamation, maintaining natural vegetation buffer areas that protect riparian habitats, and minimizing alteration of natural streams.

Section 30240 of the Coastal Act states:

- (a) Environmentally sensitive habitat areas shall be protected against a significant disruption of habitat values, and only uses dependent on those resources shall be allowed within those areas.
- (b) Development in areas adjacent to environmentally sensitive habitat areas and parks and recreation areas shall be sited and designed to prevent

impacts which would significantly degrade those areas, and shall be compatible with the continuance of those habitat and recreation areas.

Section 30230 requires that uses of the marine environment be carried out in a manner that will sustain the biological productivity of coastal waters for long-term commercial, recreational, scientific, and educational purposes. Further, Section 30231 requires that the biological productivity and quality of coastal waters be maintained. In addition, Section 30240 of the Coastal Act states that environmentally sensitive habitat areas shall be protected and that development within or adjacent to such areas must be designed to prevent impacts which could degrade those resources.

Eelgrass

Eelgrass (*Zostera marina*) is an aquatic plant consisting of tough cellulose leaves which grows in dense beds in shallow, subtidal or intertidal unconsolidated sediments. Eelgrass is considered worthy of protection because it functions as important habitat and foraging area for a variety of fish and other wildlife, according to the Southern California Eelgrass Mitigation Policy (SCEMP) adopted by the National Marine Fisheries Service (NMFS), the U.S. Fish and Wildlife Service (USFWS), and the California Department of Fish and Wildlife (CDFW). For instance, eelgrass beds provide areas for fish egg laying, juvenile fish rearing, and waterfowl foraging. Sensitive species, such as the California least tern, a federally listed endangered species, utilize eelgrass beds as foraging grounds.

Development contemplated in the proposed travelift pier replacement project has the potential to directly impact sensitive resources, including eelgrass, which may be present in the project area. Construction of the proposed travelift pier and adjoining timber docks includes installation of eight precast, pre-stressed, concrete foundation piles and four precast, pre-stressed guide piles into the seafloor as well as placement of docks into the waters of the Ventura Harbor. Installation and driving of piles can directly remove and disturb eelgrass. In addition, the docks located above these resources can reduce the light available to eelgrass and kelp by shading portions of the ocean floor. Finally, the proposed dewatering of the entire area during construction could remove or adversely impact eelgrass habitat. While there is potential for eelgrass habitat within the project area, it was not identified during a 2015 Essential Fish Habitat Evaluation completed by Pi Environmental, LLC. However, the evaluation indicates that the conditions present at the time of the survey, were not ideal for completing a thorough evaluation. Additionally, it is possible that eelgrass has established in portions of the project site since the survey was conducted. Staff notes that the Commission has routinely required surveys for eelgrass to be carried out just prior to construction of marina improvements, as a condition of approval, in order to ensure that, if eelgrass is present, mitigation measures are incorporated into the project.

Therefore, **Special Condition Two (2)** requires the applicant, within 60 days and no later than thirty (30) days prior to construction, to conduct a survey of the project area for eelgrass during the period of active growth of eelgrass (typically March through October). If the survey identifies any eelgrass within the project area which would be impacted by the proposed project, the Executive Director must be notified prior to construction. If any eelgrass is identified in the project area prior to construction, the development shall require an amendment to this permit from the Coastal Commission or a new coastal development permit. If any eelgrass is identified in the project area by the pre-construction eelgrass survey the applicants shall conduct a second

eelgrass survey within 30 days after the conclusion of construction to determine if any eelgrass was adversely impacted. All impacts to eelgrass habitat shall be mitigated at a minimum ratio of 1.38:1. Implementation of mitigation shall require an amendment to this permit or a new coastal development permit unless the Executive Director determines that no amendment or new permit is required.

Caulerpa taxifolia

The Commission further finds that the driving of piles on the sea floor could disturb and cause the spread of non-native and invasive plant species, such as Caulerpa taxifolia. C. taxifolia is a tropical green marine alga that spreads as exually from fragments and creates a dense monoculture displacing native plant and animal species. Because of toxins in its tissues, C. taxifolia is not eaten by herbivores in areas where it has invaded. The infestation of C. taxifolia has had serious negative economic and social consequences because of impacts to tourism, recreational diving, and commercial fishing in places such as the Mediterranean. 1 Because of the grave risk to native habitats, in 1999 C. taxifolia was designated a prohibited species in the United States under the Federal Noxious Weed Act. In addition, in September 2001, the Governor signed into law AB 1334 which made it illegal in California for any person to sell, possess, import, transport, transfer, release alive in the state, or give away without consideration various Caulerpa species.

In June 2000, C. taxifolia was discovered in Aqua Hedionda Lagoon in San Diego County, and in August of that year an infestation was discovered in Huntington Harbor in Orange County. Genetic studies show that this is the same clone as that released in the Mediterranean. Other infestations are likely. Although a tropical species, C. taxifolia has been shown to tolerate water temperatures down to at least 50°F. Although warmer southern California habitats are most

¹ References:

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Ceccherelli, G. and F. Cinelli. 1999. The role of vegetative fragmentation in dispersal of the invasive alga Caulerpa taxifolia in the Mediterranean. Marine Ecology Progress Series 182:299-303

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Komatsu, T. A. Meinesz, and D. Buckles. 1997. Temperature and light responses of the alga Caulerpa taxifolia introduced into the Mediterranean Sea. Marine Ecology Progress Series 146:145-153.

Gacia, E. C. Rodriquez-Prieto, O. Delgado, and E. Ballesteros. 1996. Seasonal light and temperature responses of Caulerpa taxifolia from the northwestern Mediterranean. Aquatic Botany 53:215-225.

Belsher, T. and A. Meinesz. 1995. Deep-water dispersal of the tropical alga Caulerpa taxifolia introduced into the Mediterranean. Aquatic Botany 51:163-169.

vulnerable, until better information if available, it must be assumed that the whole California coast is at risk. All shallow marine habitats could be impacted.

In response to the threat that *C. taxifolia* poses to California's marine environment, the Southern California Caulerpa Action Team, SCCAT, was established to respond quickly and effectively to the discovery of *C. taxifolia* infestations in Southern California. The group consists of representatives from several States, federal, local and private entities. The goal of SCCAT is to completely eradicate all *C. taxifolia* infestations.

On December 30, 2015, Pi Environmental, LLC conducted an essential fish habitat evaluation to assess the potential of the proposed construction activities to impact sensitive marine species. The survey did not identify any C. taxifolia or other invasive species within the area of potential effect. Although the survey was conducted near the end of December 2015, the circumstances of the area could change, particularly if the applicant does not commence construction in a timely manner. In order to ensure that the proposed development does not inadvertently induce the dispersal of *C. taxifolia*, the Commission imposes **Special Condition Two (2)**, which requires the applicant to survey the project area for the presence of *C. taxifolia*, just prior to construction of the proposed project. If *C. taxifolia* is present in the project area, no work may commence until the applicant has either: 1) provided evidence that all *C. taxifolia* discovered within the project area has been eliminated in a manner that complies with all applicable governmental approval requirements; or (2) has revised the project to avoid any contact with *C. taxifolia*.

Construction Impacts and Maintenance Responsibilities

The proposed project is located in and over the waters of the Ventura Harbor. The associated dock structures and concrete guide piles necessary for construction of the project would be manufactured off-site and subsequently assembled on-site. Installation of the guide piles would occur from a shore-based crane. Small support skiffs and other watercraft would be utilized to install the dock structures and utilities. Construction of any kind, adjacent to or in coastal waters, has the potential to adversely impact marine resources and water quality through the introduction of pollutants associated with construction. Treatment materials have not been proposed for the concrete piles.

Storage or placement of construction materials, debris, or waste in a location subject to erosion and dispersion or which may be discharged into coastal water via rain, surf, or wind would result in adverse impacts upon the marine environment that would reduce the biological productivity of coastal waters. For instance, construction debris entering coastal waters may cover and displace soft bottom habitat. In addition, the use of machinery in coastal waters not designed for such use may result in the release of lubricants or oils that are toxic to marine life. Sediment discharged into waters may cause turbidity, which can shade and reduce the productivity of foraging avian and marine species by interfering with their ability to see food in the water column. In order to avoid adverse construction-related impacts upon marine resources, **Special Condition Three (3)** outlines construction-related requirements to provide for the safe storage of construction materials. Further, **Special Condition Three (3)** requires that the applicant dispose of all demolition and construction debris at an appropriate location. In addition, this condition also requires the incorporation of silt curtains and/or floating booms when necessary to control turbidity and debris discharge. Divers shall immediately remove any non-floatable debris not contained in such structures that sink to the ocean bottom. Lastly, **Special Condition Four (4)**

requires that the permittee inspect the facilities that are subject to this coastal development permit at least once a year. The permittee shall immediately undertake any repairs necessary to maintain the structural integrity of the docks, pilings, and utility connects, prevent leaks, and to ensure that debris does not enter the environment.

Marine resources and water quality can also be adversely affected by the use of toxic chemicals to treat wood products that come into contact with the water. The toxic chemicals can leach out of treated wood and poison marine organisms. Some wood treatments can be used if the wood does not come into contact with the water. Therefore, **Special Condition Three (3)** also requires that any wood treatment used shall conform to the specifications of the American Wood Preservation Association for saltwater use. Wood treated with Creosote, CCA (Chromated Copper Arsenate), or ACA (Ammoniacal Copper Arsenate) is prohibited, and all treated timber shall be free of chromium and arsenic. No wood treated with ACZA (Ammoniacal Copper Zinc Arsenate) shall be used where it could come into direct contact with the water. The applicant proposes to use timber treated with ACZA for the docks adjoining the travelift pier, and has indicated that the docks will not be in contact with the water. The proposed foundation and guide piles and the dock supporting the north finger of the travelift pier will be composed of precast, pre-stressed concrete materials.

Finally, **Special Condition Five (5)** is required to ensure that the permittee complies with all permit requirements and mitigation measures of the California Department of Fish and Wildlife, Regional Water Quality Control Board, U.S. Army Corps of Engineers, and the U.S. Fish and Wildlife Service with respect to preservation and protection of water quality and marine environment. Any change in the approved project which may be required by the above-stated agencies shall be submitted to the Executive Director in order to determine if the proposed change shall require a permit amendment pursuant to the requirements of the Coastal Act and the California Code of Regulations.

Therefore, the Commission finds that the proposed project, as conditioned, is consistent with Coastal Act Sections 30230, 30231, and 30240.

D. DIKING, FILLING, AND DREDGING WITHIN OPEN COASTAL WATERS

Section 30233 of the Coastal Act states, in relevant part, that:

- (a) The diking, filling, or dredging of open coastal waters, wetlands, estuaries, and lakes shall be permitted in accordance with other applicable provisions of this division, where there is no feasible less environmentally damaging alternative, and where feasible mitigation measures have been provided to minimize adverse environmental effects, and shall be limited to the following:
- (1) New or expanded port, energy, and coastal-dependent industrial facilities, including commercial fishing facilities.

(3) In open coastal waters, other than wetlands, including streams, estuaries, and lakes, new or expanded boating facilities and the placement of structural pilings

15

for public recreational piers that provide public access and recreational opportunities.

..

Resources Element Policy 15.7 of City of Ventura LUP states, in relevant part, that:

- A. The diking, filling or dredging of open coastal waters, wetlands, estuaries and lakes may be permitted in accordance with other applicable provisions of this Plan where there is no feasible less environmentally damaging alternative and where mitigation measures have been provided to minimize adverse environmental effects. Diking, filling or dredging shall be limited to the following:
- 1) New or expanded port, energy, and coastal dependent industrial facilities, including commercial fishing facilities.

...

3) The provision of new or expanded boating facilities in open coastal waters and streams and estuaries which do not involve any wetlands.

...

Coastal Act Section 30233 and City of Ventura LUP Policy 15.7(A) limit the types of development that fill open coastal waters. Both policies allow new or expanded commercial fishing and boating facilities in open coastal waters such as the Ventura Harbor, provided that these uses incorporate the least environmentally damaging designs and all feasible mitigation measures.

The proposed project includes replacement of the entire north finger of the travelift pier and adjoining gangway and floating docks. The proposed project also includes the installation of twelve new precast, pre-stressed concrete piles.

Allowable Use

Section 30233(a)(1)(3) of the Coastal Act and City of Ventura LUP Policy 15.7(A)(1)(3) allows the fill of open coastal waters, other than wetlands, such as the Ventura Harbor waterways where the subject site is located, for new or expanded boating and commercial fishing facilities. No wetlands were found on the project site. The proposed project, replacement of a public travelift pier and associated docks, constitutes a new recreational boating and commercial fishing facility. Thus, the project is an allowable use under Coastal Act Section 30233(a)(1)(3) and City of Ventura LUP Policy 15.7(A)(1)(3).

Least Environmentally Damaging Alternative

Coastal Act Section 30233(a) and City of Ventura LUP Policy 15.7(A) permit the fill of open coastal waters for specific enumerated uses where there is no least environmentally damaging alternative. The applicant is proposing to reconstruct the travelift pier and adjoining floating docks which would include the removal of 8 existing concrete piles and the placement of 12 new precast, pre-stressed concrete piles. This is the minimum number of piles necessary to support the north finger of the travelift pier and the adjoining docks. The footprint of the north finger of the travelift pier will increase by two linear feet to the north to provide support for the new piles. The adjoining floating docks will reside in the same footprint as the preexisting docks. The proposed project will use the minimum amount of fill needed to support the proposed allowable

use. As such, the proposed project provides the fewest amounts of impacts to the marine environment.

Adequate Mitigation

Additionally, Coastal Act Section 30233(a) and City of Ventura LUP Policy 15.7(A) also permits the fill of open coastal waters for specific enumerated uses when the proposed project provides adequate mitigation. Given the density of development throughout the Ventura Harbor, there are no alternative locations available for the proposed project that would provide fewer environmental impacts. Additionally, the proposed project will fill approximately the same development footprint as the preexisting travelift pier and adjoining docks. Additionally, **Special Condition One (1)** requires surveys for Eelgrass, **Special Condition Two (2)** requires surveys for *Caulerpa taxifolia*, and **Special Condition Three (3)** requires that the applicant comply with construction and debris removal responsibilities. These special conditions will assure that the construction, including the placement of pilings, will result in minimal impacts to the harbor floor and marine environment.

As such, the Commission finds that the project includes development that is allowed in open coastal waters, that it is the least environmentally damaging alternative, and that, as conditioned, all feasible mitigation measures have been included. For the reasons discussed above, the Commission finds that the project, as conditioned, is consistent with Coastal Act Section 30233 and City of Ventura LUP Policy 15.7(A). Placement of the proposed piles will displace a small amount of bottom habitat area. However, the proposed project is the least environmentally damaging, feasible design, and includes feasible mitigation measures.

E. HAZARDS

Section 30253 of the Coastal Act states, in relevant part, the new development shall:

- (1) Minimize risks to life and property in areas of high geologic, flood, and fire hazard.
- (2) Assure stability and structural integrity, and neither create or contribute significantly to erosion, instability, or destruction of the site or surrounding area or in any way require the construction or protective devices that would substantially alter natural landforms along bluffs and cliffs.

Policy 15.3 of the City of Ventura LUP states:

New development shall be sited and designed to minimize risks to life and property in areas of high geologic, flood, and fire hazards. All new development will be evaluated in conjunction with the City's Safety Element of this Comprehensive Plan, and for its impacts to and from geologic hazards (including seismic safety, landslides, expansive soils, subsidence, etc.), flood hazards, and fire hazards. Feasible mitigation measures shall be required where necessary.

Section 30253 of the Coastal Act indicates that new development shall minimize risks to life and property in areas of high geologic and flood hazard. Policy 15.3 of the certified LUP requires that new development be sited and designed to provide geologic stability and structural integrity, and minimize risks to life and property in areas of high geologic and flood hazard.

The proposed project has been designed to maximize the safety and stability of the travelift pier and adjoining gangway and docks. However, given that the project is located within the Ventura Harbor, a coastal area subject to natural processes such as wave action, seiches and surges, risks from potential hazards are inherent. The Coastal Act recognizes that certain types of development, such as the proposed project to replace boatyard facilities, may involve the taking of some risk. Coastal Act policies require the Commission to establish the appropriate degree of risk acceptable for the proposed development and to determine who should assume the risk. When development in areas of identified hazards is proposed, the Commission considers the hazard associated with the project site and the potential cost to the public, as well as the owner's property rights. As such, the Commission finds that due to the unforeseen possibility of storm waves, seiches, and surges, the applicant shall assume these risks as a condition of approval. Therefore, Special Condition Six (6) has been included to require that the applicant assume the risks of injury and damage as well as waive any claim of liability against the Commission for damage to life or property that may occur as a result of the permitted development.

For the reasons discussed above, the Commission finds that the proposed project, as conditioned, is consistent with Coastal Act Section 30253 and City of Ventura LUP Policy 15.3.

F. CALIFORNIA ENVIRONMENTAL QUALITY ACT

Section 13096(a) of the Commission's administrative regulations requires Commission approval of a Coastal Development Permit application to be supported by a finding showing the application, as conditioned by any conditions of approval, to be consistent with any applicable requirements of the California Environmental Quality Act (CEQA). Section 21080.5(d)(2)(A) of CEQA prohibits a proposed development from being approved if there are feasible alternatives or feasible mitigation measures available which would substantially lessen any significant adverse effect that the activity may have on the environment.

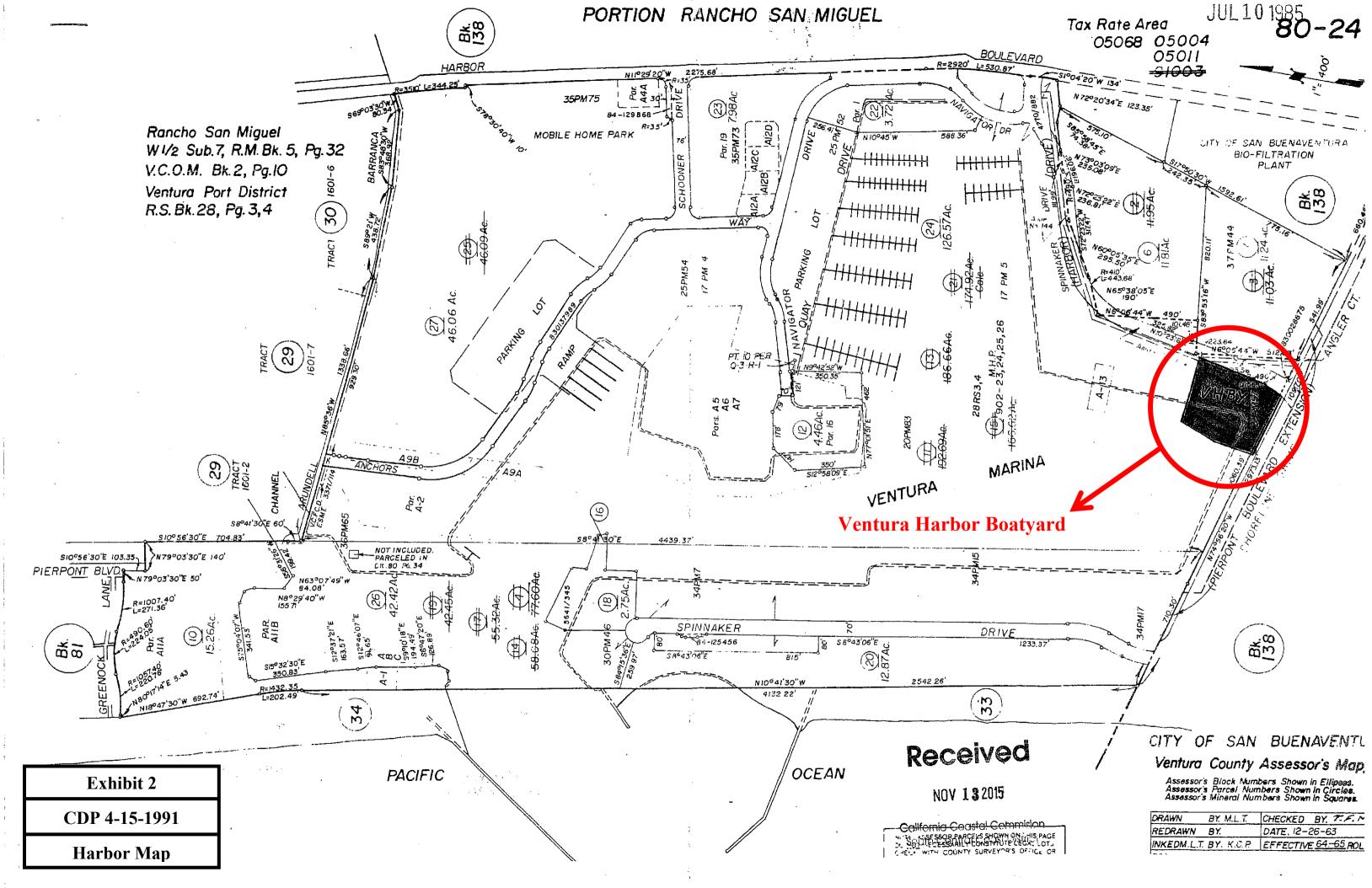
The Commission incorporates its findings on Coastal Act consistency at this point as if set forth in full. These findings address and respond to any public comments regarding potential significant adverse environmental effects of the project that were received prior to preparation of the staff report. As discussed in detail above, the proposed project, as conditioned, is consistent with the policies of the Coastal Act. Feasible mitigation measures, which will minimize all adverse environmental effects, have been required as special conditions.

As conditioned, there are no feasible alternatives or feasible mitigation measures available, beyond those required which would substantially lessen any significant adverse impact that the activity may have on the environment. Therefore, the Commission finds that the proposed project, as conditioned to mitigate the identified impacts, can be found to be consistent with the requirements of the Coastal Act to conform to CEQA.

APPENDIX A – SUBSTANTIVE FILE DOCUMENTS

Ventura Harbor Boatyard Travelift Pier Replacement Essential Fish Habitat Assessment, prepared by Pi Environmental, LLC, dated January 2016; Ventura Harbor Boatyard Travelift Pier Emergency Condition Assessment, prepared by Moffatt & Nichol, dated August 25, 2015; Ventura Harbor Boatyard Travelift Pier Construction BMPs, prepared by Noble Consultants, Inc., dated December 1, 2015; Ventura Harbor and Channel Islands Vacancy Slips, dated March 22, 2016.











NG MAPS. SCALE - 1"=20'±

PROJECT DRAWINGS

FOR

TRAVELIFT PIER REPAIR

VENTURA HARBOR BOATYARD 1415 SPINNAKER DRIVE, VENTURA, CA. 93001

INDEX OF SHEETS

SHEET NO. SHEET TITLE

- TITLE SHEET 1
- 2 CONSTRUCTION NOTES
- 3 SITE SURVEY AND PROJECT CONTROL
- SOIL BORING LOGS 4
- 5 **DEMOLITION PLAN**
- 6 EXISTING PIER RECORD DRAWINGS
- 7 EXISTING PIER PILE DETAILS
- 8 **EXISTING PIER DETAILS**
- 9 PROJECT PLAN
- 10 PILE PLAN
- **DECK PLAN** 11
- **DETAILS** 12
- 13 **FABRICATED METAL**





RADIUS; RIGHT REINFORCED CONCRETE PIPE SCHEDULE STAINLESS STEE STATION TOP OF CUR TOC TOP OF GUTTER TYPICAL UHMW ULTA HIGH MOLECULAR WEIGHT PLASTIC UNG LINLESS NOTED OTHERWISE

WELDED WIRE MES VENTURA HARBOR BOATYARI

DIAMETER EXISTING HORIZONTA NUMBER

VERTICAL

CLR CLEAR

CONC CONCRETE CONTINUOUS

CONT

DIAM

ASBESTOS-CEMENT AMERICAN CONCRETE INSTITUTE AMERICAN SOCIETY FOR TESTING AND MATERIALS AWWA AMERICAN WATER WORKS ASSOCIATION

DOUGLAS FIR

DUCTILE IRON DIAGONAL DIAMETER

EACH FACE

FLANGE END

FLATHEAD FLOW LINE

GLULAM GLUED LAMINATED TIMBER

HOT MIX ASPHALT HOLLOW STRUCTURAL SECTION

ANGLE, LEFT; LENGTH

MHHW MEAN HIGHER HIGH WATER

MEAN HIGH WATER

MEAN TIDE LEVEL

MEAN LOWER LOW WATER MEAN LOW WATER

NAVD88 NORTH AMERICAN VERTICAL DATUM OF 1988 NGVD29 NATIONAL GEODETIC VERTICAL DATUM OF 1929

> PORTLAND CEMENT CONCRETE PLAIN END PLATE PUSH ON POUNDS PER SQUARE INCH POLYVINYL CHLORIDE

HIGH WATER INCHES

LOW WATER

MINIMUM MECHANICAL JOINT

NUMBER ON CENTER

DOINT

MATT MATERIAL MAXIMUM

MAX

MILLW

MLW

PCC

HOT DIPPED GALVANIZED HIGH DENSITY POLYETHYLENE

FEET

FT-LBS FOOT-POUNDS

FO SP FOLIALLY SPACED EACH WAY

EL; ELEVATION

CAUFORNIA BUILDING CODE

PIPE DIMENSION RATIO (DIAMETER/WALL THICKNESS)

PLUS OR MINUS/APPROXIMATELY

NOBLE GEC

1029-02 TITLE SHEET SCALE AS SHOWN 4 DEC 2015

SHEET ____1__ or ___13_

Exhibit 3

CDP 4-15-1991

Project Plans

GENERAL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE 2012 EDITION OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (SSPWC) EXCEPT AS MODIFIED OR SPECIFICALLY NOTED OTHERWISE BY THESE PLANS AND SPECIFICATIONS
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE JOB SITE CONDITIONS OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS RESPONSIBILITY SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL
 UTILITIES PER AVAILABLE RECORD DRAWNOS OBTAINED DURING DESIGN.
 THE CONTRACTOR SHALL CONTRACT PAPPOPRATE ASCRICIES TO OBTAIN
 REVISED, UPDATED OR AS—BUILT INFORMATION AVAILABLE JUST PRIOR
 TO.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ALL UTILITIES AND ALL STRUCTURES FOUND AT THE SITE.
- THE CONTRACTOR SHALL NOTIFY THE VENTURA HARBOR BOATYARD (VHBY) 48 HOURS PRIOR TO STARTING WORK SO THAT INSPECTION CAN BE PROVIDED.
- 6. THE CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS SHOWN WHEN IT IS OBVIOUS THAT UNKNOWN CONDITIONS AND/OR OBJECTS EXIST THAT MAY NOT HAVE BEEN KNOWN DURING THE PREPARATION OF THESE PLANS AND BROUGHT TO THE ATTENTION OF THE VHBY. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
- SITE ACCESS IS LIMITED. THE CONTRACTOR SHALL VERIFY ACCESSIBILITY AND MAKE ALLOWANCES IN HIS BID FOR REQUIRED CONSTRUCTION EQUIPMENT AND MATERIALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENFORCEMENT OF SAFETY MEASURES AND REGULATIONS. THE CONTRACTOR SHALL DESIGN. CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES INCLUDING SHORING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMAN TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS
- UPON COMPLETION OF EACH DAY'S WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING THE WORK AREA FREE OF HAZARDS AND SHALL PROVIDE ALL INECESSARY TEMPORARY SIGNS, WARNING DEVISES. AND BARRICADES.
- 10. THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE WORK SITE CLEAN AND FREE FROM RUBBISH AND DEBRIS. THE CONTRACTOR SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING, SPRINKLING WITH WATER, USING DUST FENCES, OR OTHER METHODS AS DIRECTED BY THE VHBY THROUGHOUT THE CONSTRUCTION OPERATION.
- 11. THE CONTRACTOR SHALL KEEP ACCURATE, LEGIBLE, AND STRICT RECORDS OF ALL CHANGES OF WORK WHICH OCCUR DURING CONSTRUCTION ON A SET OF PROJECT PRINTS. PRIOR TO FINAL ACCEPTANCE, OF THE PROJECT, THE CONTRACTOR SHALL DELIVER AN APPROVED SET OF CERTIFIED "AS-BUILT" PLANS TO THE VHBY.
- ANY AND ALL DAMAGE CAUSED TO VHBY FACILITIES, PUBLIC STREETS INCLUDING HAUL ROUTES, OR PRIVATE PROPERTY SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR TO THE ENGINEER'S SATISFACTION

PERMIT REQUIREMENTS:

- THE CONTRACTOR SHALL FULLY COMPLY WITH ALL OF THE REQUIREMENTS AND SPECIAL CONDITIONS OF VHBY'S DEPARTMENT OF THE ARMY, CALIFORNIA COASTAL COMMISSION, AND CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD REGULATORY PERMITS.
- IN ACCORDANCE WITH THE APPLICABLE SPECIAL CONDITION OF VHBY'S COASTAL DEVELOPMENT PERMIT, VHBY SHALL CONDUCT ALL EEL GRASS SURVEYS AS REQUIRED.
- 3. THE VHBY SHALL PERFORM A PRE-CONSTRUCTION CAULERPA TAXIFOLIA SURVEY OF THE PROJECT SITE AS REQUIRED BY REQUILATORY PERMITS. THE SURVEY SHALL BE PERFORMED NO EARLIER THAN INNETY (90) DAYS AND NO LATER THAN THIRTY (30) DAYS PRIOR TO THE SCHEDULED DATE FOR ISSUANCE OF THE CONTRACTOR'S NOTICE TO PROCEED. CAULERPA HAS NEVER BEEN FOLIND. IN VENTILBA HABBOR
- IF CAULERPA IS FOUND TO BE PRESENT, THE VHEY RESERVES THE RIGHT TO TERMINATE THE CONTRACT AT NO COST TO VHBY, NO PAYMENT SHALL BE MADE FOR LOST PROFIT ON THE JOB.

NPDES NOTES

- IN CASE OF EMERGENCY, CALL THE VENTURA PORT DISTRICT HARBOR PATROL OFFICE PHONE NUMBER AT 805-642-8618.
- MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TRACKING, OR WIND.
- FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL
 IMPLEMENT AND MAINTAIN THE FOLLOWING BEST MANAGEMENT
 PRACTICES (BMP⊕) AS DESCRIBED IN THE BMP FACT SHEETS
 PUBLISHED BY THE CALIFORNIA STORMWARTER QUALITY ASSOCIATION'S
 (CASQA) CONSTRUCTION BMP HANDBOOK AND AS MODIFIED BY
 ATTACHMENT A OF THE LOS ANGELES REGIONAL WATER QUALITY
 CONTROL BOARD'S CERTIFICATION (FILE NO. 12-115):

TEMPORARY NON-STORMWATER NS-1, NS-6, NS-8, NS-9, NS-10, NS-11, NS-12, NS-14, NS-15;

TEMPORARY MATERIALS MANAGEMENT WM-1, WM-2, WM-4, WM-5, WM-8, WM-9.

- 4. ALL CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE OF THE REQUIRED BEST MANAGEMENT PRACTICES AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS.
- 5. CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN ANTICIPATED STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. DISCHARGES OF MATERIAL OTHER THAN STORMWATER ONLY WHEN NECESSARY FOR PERFORMANCE AND COMPLETION OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT: CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD: CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAINAMINION, OR NUISANCE: OR CONTAIN A HAZDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR PARTS 117 AND 302.
- G. POTENTIAL POLUTANTS INCLUDE BUT ARE NOT LIMITED TO. SOULD OR LIQUID CHEMICAL SPILLS, WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LMES, PERSON, SEED SEARCH PROPERTY, PROPERTY OF STANDAY OF THE PAINTS OF THE PAINTS
- DURING CONSTRUCTION, THE CONTRACTOR SHALL DISPOSE OF SUCH MATERIALS IN A SPECIHED AND CONTROLLED TEMPORARY AREA ON-SHE, PHYSICALLY SEPARATIED FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO INSURE THAT NO ONE DUMPS CHEMICALS INTO THE STORM DRAIN SYSTEM OR THE WATERSHED SHALL AT ANYTIME.
- 9. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IN IMMINENT.

SITE ACCESS

 REPRESENTATIVES OF THE VHBY, ITS CONSULTANTS, AND THE VENTURA PORT DISTRICT SHALL BE ALLOWED ACCESS TO ALL PARTS OF THE CONSTRUCTION WORK AT ANY AND ALL TIMES.

CONCRETE PILES

- . CONCRETE PILES SHALL BE MANUFACTURED BY OLDCASTLE PRECAST, FONTANA, CA.
- PILES SHALL HAVE A TWENTY-EIGHT DAY COMPRESSIVE STRENGTH OF 6,000 POUNDS PER SQUARE INCH. THE WATER-TO-CEMENT RATIO SHALL NOT EXCEED CAJ. CONCRETE FOR PILES SHALL CONTAIN DCI CORROSION INTERIOR MANUFACTURED BY WAR. GRACE & COMPANY AT A BATE OF TWO GALLONS PER CUBIC YARD OF CONCRETE.
- 3. STEEL SHALL BE:
 - A. PRESTRESSING STRAND 7-WIRE STRESS RELIEVED PER ASTM A416.
 - B. SPIRAL CONFORM TO ASTM 82.
 - C. TIES CONFORM TO ASTM AG15.
 - D. LIFTING LOOPS, ANCHORAGES, END FITTINGS CONFORM TO ACI 318 FOR POST TENSIONED ASSEMBLIES.

- IT IS RECOMMENDED THAT THE CONTRACTOR USE A JET PUMP MEETING THE FOLLOWING REQUIREMENTS: 1,000 GPM AT 300 PSI, JET PILES TO WITHIN EIGHT (8) FEET OF SPECIFIED TIP ELEVATION.
- DRIVE PILES TO FINAL TIP ELEVATION OR PRACTICAL REFUSAL WITH AN IMPACT HAMMER WHOSE RAM WEIGHT IS NOT BE LESS THAN 25% OF THE CONCRETE PILE'S WEIGHT TO BE DRIVEN.
- 5. TOLERANCES IN PILE DRIVING SHALL BE: NOT MORE THAN ONE PERCENT FROM VERTICAL OR BATTER ANGLE; BUTTS SHALL BE WITHIN TWO INCHES OF LOCATION INDICATED ON THE PLANS.

CAST-IN-PLACE CONCRETE

- CAST-IN-PLACE CONCRETE SHALL:
 - A. CONTAIN TYPE II/V PORTLAND CEMENT.
 - B. CONTAIN DCI CORROSION INHIBITOR AS MANUFACTURED BY W.R. GRACE & COMPANY AT A RATE OF FOUR GALLONS PER CUBIC YARD.
 - C. HAVE GRADING C AGGREGATES PER SECTION 201-1.3.2 OF THE SSPWC.
 - D. HAVE A 28-DAY COMPRESSIVE STRENGTH OF 5,000 PSI.
 - E. HAVE A WATER-TO-CEMENT RATIO NO GREATER THAN 0.40.
 - F. POZZOLAN MAY BE USED TO REPLACE A MAXIMUM OF TWENTY
 (20) PERCENT OF THE REQUIRED PORTLAND CEMENT IN THE
 CONCRETE AT A RATIO OF 1.1 POUNDS OF POZZOLAN FOR EVERY
 POUND OF COMENT REPLACED. POZZOLAN SHALL CONFORM TO
 ASTM C618, CLASS F, EXCEPT THAT LOSS OF IGNITION SHALL NOT
 EXCEED FOUR (4) PERCENT. ALL POZZOLAN USED SHALL BE
 MADE BY THE SAME MANUFACTURED.
- REINFORCING STEEL SHALL BE GRADE 60 BILLET STEEL PER ASTM A615. EPOXY COAT ALL BARS PER ASTM A775. ALL TIES SHALL BE NON-METALLIC OR EPOXY COATED.
- PERFORM ALL CONCRETE WORK PER SECTIONS 303-1 AND 303-5 OF THE SSPWC EXCEPT AS MODIFIED BY THESE PLANS.

STRUCTURAL STEEL

- ANGLE FOR CURB SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36. ALL CURB SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION AND FINISHED WITH TWO COATS OF AN APPROVED SAFETY YELLOW MARINE GRADE EXTERIOR PAINT.
- ALL PLATE AND BAR FOR THE EXPANSION JOINT ASSEMBLY THAT IS TO BE WELDED SHALL BE TYPE 316L STANLESS STEEL IN CONFORMANCE WITH ASTM A240. ALL OTHER PLATE AND SHAPES SHALL BE TYPE 316 STANLESS STEEL PER ASTM A240.
- ALL MACHINE BOLTS AND HARDWARE SHALL BE TYPE 316 STAINLESS STEEL.

CONCRETE CRACK REPAIR

- NEATLY SEAL AND PORT ENTIRE LENGTH OF CRACK TO BE REPAIRED WITH APPROVED EPOXY AND INJECTION PORTS PER MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- INJECT CRACK COMPLETELY FULL WITH APPROVED INJECTION EPOXY DESIGNED FOR CONCRETE CRACK REPAIR OF OVERHEAD SURFACES. ENSURE THAT NO MATERIAL DRAINS FROM SOFFIT PORTS AFTER INJECTING CRACK COMPLETELY FULL.
- 3. REMOVE INJECTION PORTS AFTER SET OF INTERNAL CRACK REPAIR EPOXY

POST-INSTALLED REINFORCEMENT BAR CONNECTIONS

- ADHESIVE FOR POST-INSTALLED REBAR IN APRON EXTENSION AND DOWELS IN PILES SHALL BE HILTI HIT-RE 500-SD EPOXY ADHESIVE.
- DRILL HOLES, APPLY ADHESIVE, AND INSTALL REBAR IN STRICT CONFORMANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AS SUMMARIZED BELOW:
- A APRON EXTENSION
- 1) DRILL 30 HOLE FOR \$5 REBAR TO SPECIFIED DEPTH.
- 2) CLEAN HOLE DUST FREE WITH 90 PSI OIL-FREE COMPRESSED
- BRUSH HOLE TWO TIMES IN TWISTING MOTION WITH ROUND STEEL BRUSH THAT HAS A DIAMETER LARGER THAN THE HOLE DIAMETER.
- 4) REPEAT STEP A2.

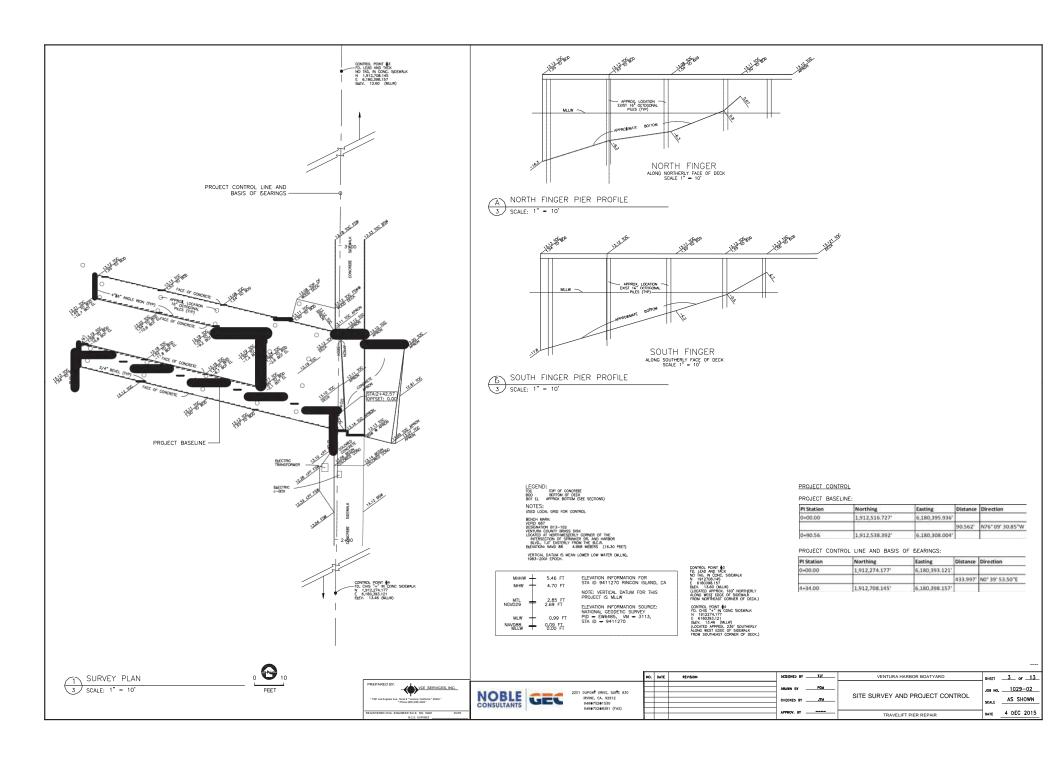
- 5) INJECT EPOXY INTO HOLE STARTING AT THE BACK WITHOUT FORMING AIR VOIDS. FILL § FULL OR AS REQUIRED TO ENSURE THAT ANNULAR SPACE BETWEEN CONCRETE AND REBAR IS COMPLETELY FULL ALONG THE EMBEDMENT DEPTH.
- 6) INSERT REBAR
- B. PILE DOWEL
 - PREPARE DOWEL TUBE, APPLY ADHESIVE, AND INSERT #8 REBAR PER STEP NOS. AZ THROUGH A6 ABOVE. VACUUM TUBE AS NECEASSARY TO REMOVE ALL DUST, DEBRIS, AND FOREIGN MATERIAL.
- CONTRACTOR SHALL READ AND FAMILIARIZE HIMSELF WITH MANUFACTURER'S COMPLETE WRITTEN INSTRUCTIONS ON INSTALLATION OF SPECIFIED POST—INSTALLED REINFORCEMENT USING SPECIFIED ADHESIVE AND REQUIRED APPLICATION EQUIPMENT.
- HOLES AND DOWELS TUBES SHALL BE DRY PRIOR TO APPLICATION OF ADHESIVE AND INSTALLATION OF REBAR.

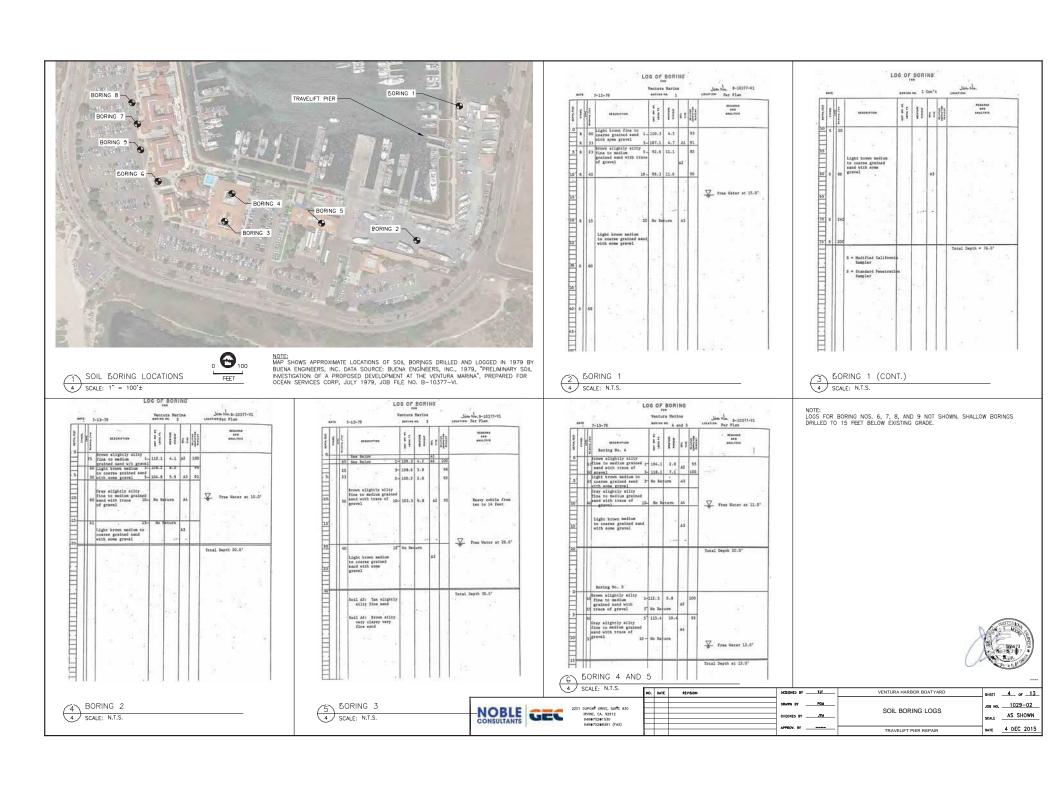


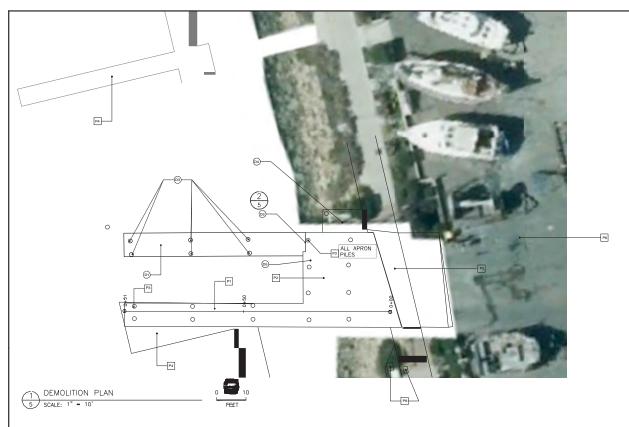


2201 DUPONT DRIVE, SUITE 830 IRVINE, CA. 92612 9498-75291530 9498-75285381 (FAX) NO. DATE REVISION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DE DESCRIPTION DE

S SHOWN
DATE 4 DEC 2015







DEMOLITION SCHEDULE

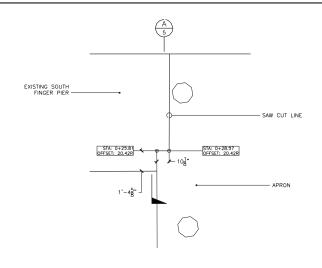
- NO. ITEM
- D1 REMOVE AND DISPOSE OF ALL REINFORCED
 CONCRETE NORTH FINGER PIER, METAL CURB,
 AND ALL ASSOCIATED HARDWARE WITHIN THE
 LIMITS SHOWN.
- D2 NEATLY SAW CUT DEMOLITION LIMIT LINE.
- COMPLETELY REMOVE AND DISPOSE OF PRESTRESSED CONCRETE PILES TO DEPTH OF D3 TWO (2) FEET BELOW EXISTING MUDLINE
- COMPLETELY REMOVE AND DISPOSE OF TIMBER GANGWAY LANDING, TIMBER AND METAL DECK FRAMING, DUARDRAIL, GANGWAY HANGER, AND ASSOCIATED HARDWARE. CORE AND REMOVE THREADED INSERTS FOR HANGER BRACKETS ON APRON DECK TO DEPTH OF 3 INCHES AND FILL HOLES WITH NON-SHRINK GROUT.
- REMOVE L6x4 CURB APPROACH. CORE AND REMOVE 1014 ANCHOR BOLTS TO DEPTH OF 3
 INCHES BELOW DECK SURFACE AND FILL HOLE
 WITH NON-SHRINK GROUT.

ITEMS TO PROTECT IN PLACE

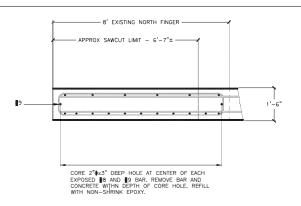
- NO. ITEM
- P1 EXISTING SOUTH FINGER PIER
- P2 EXISTING APRON
- EXISTING SOUTH FINGER PIER AND APRON FOUNDATION PILES P3
- EXISTING TIMBER FLOATING DOCKS/GUIDE PILES
- PG EXISTING BOATYARD IMPROVEMENTS
- P7 EXISTING LANDSCAPE
- EXISTING VALVE BOXES, TRANSFORMER, AND P8 UTILITIES

DEMOLITION NOTES:

- CONTRACTOR SHALL PROVIDE AND PLACE SHORING AS REQUIRED TO PREVENT DAMAGE OR MOVEMENT TO STRUCTURES AND IMPROVEMENTS THAT ARE TO REMAIN.
- CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN BARRICADES, GUARD RAILS, AND FENCING TO PROTECT THE GENERAL PUBLIC, WORKERS, AND ADJACENT PROPERTY TO COMPLY WITH ALL APPLICABLE SAFETY LAWS AND REGULATIONS.
- REMOVE EXISTING NORTH FINGER PIER, FOUNDATION PILES TWO FOOT BELOW EXISTING MUDLINE ELEVATION, DEBRIS, AND MISCELLANEOUS METAL IN THEIR ENTIRETY BAYWARD OF THE SAW CUT LINE AS SHOWN.
- 4. NEAT STRAIGHT LINE SAWCUTS SHALL BE PROVIDED FOR ANY REMOVAL OF CONCRETE PAVEMENT, GUTTER, OR STAIRS.
- 5. REMOVE AND TRANSPORT DEBRIS AND RUBBISH IN A MANNER REMOVE AND TRANSPORT DEBRIS AND RUBBISH IN A MANNER HAT WILL PREVENT SPILLAGE ON BEACH, STREETS, AND ADJACENT AREAS. DEMOLSHED ITEMS AND DEBRIS OTHER HAN SOL STALL NOT BE LEFT ON THE JOB STIE FOR MORE HAN THREE DAYS. ALL REMOVED MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR. CONTRACTOR SHALL DISPOSE OF SUCH MATERIALS OFF THE JOB STIE AT CONTRACTOR SHALL PROPERTY OF THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE. WASTE MANAGEMENT REQUIREMENTS.
- 6. DEBRIS SHALL NOT BE ALLOWED TO FALL INTO THE WATER AT ANY TIME. IMMEDIATELY RECOVER AND DISPOSE OF ANY MATERIAL.







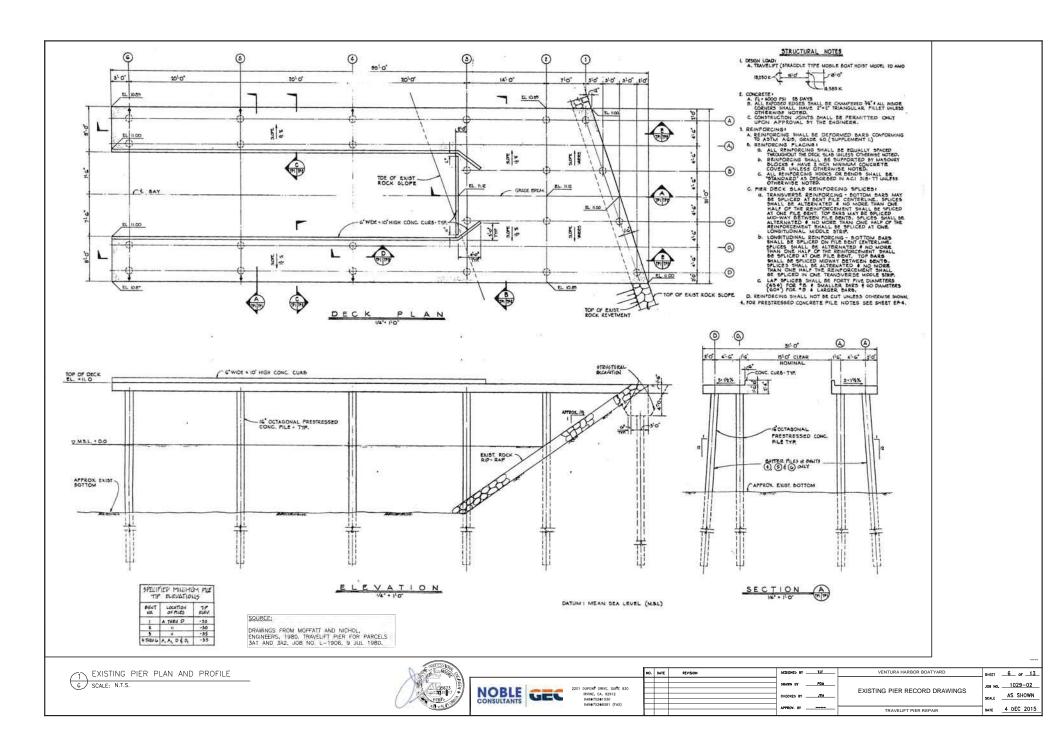


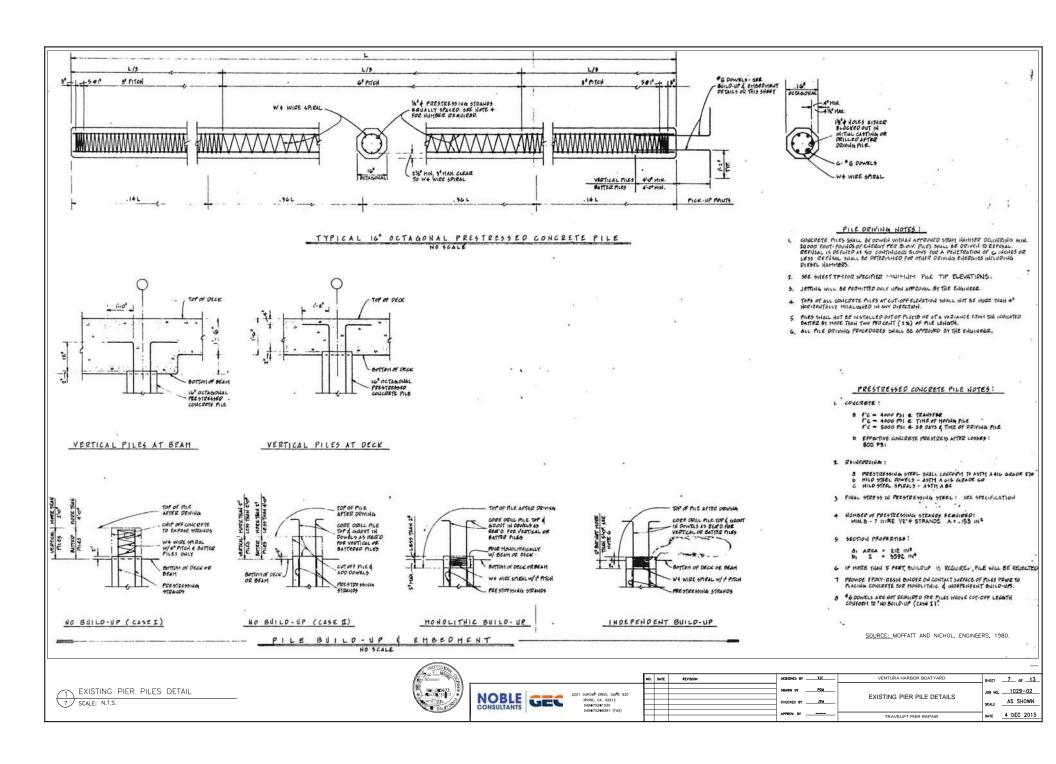


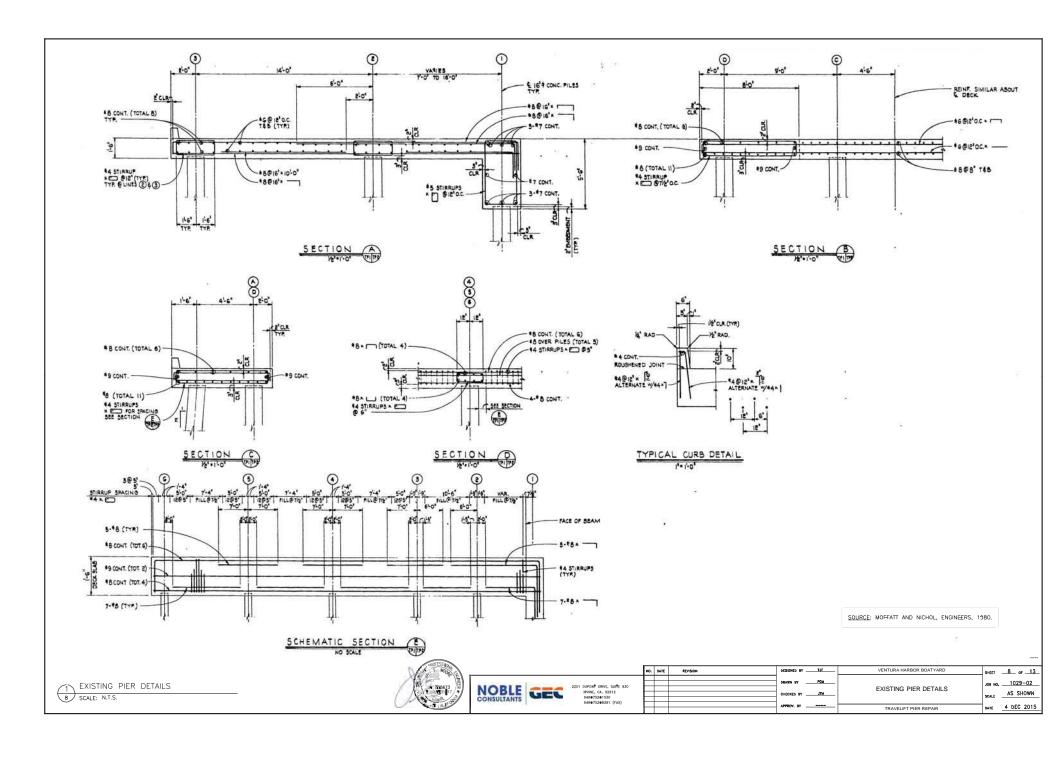


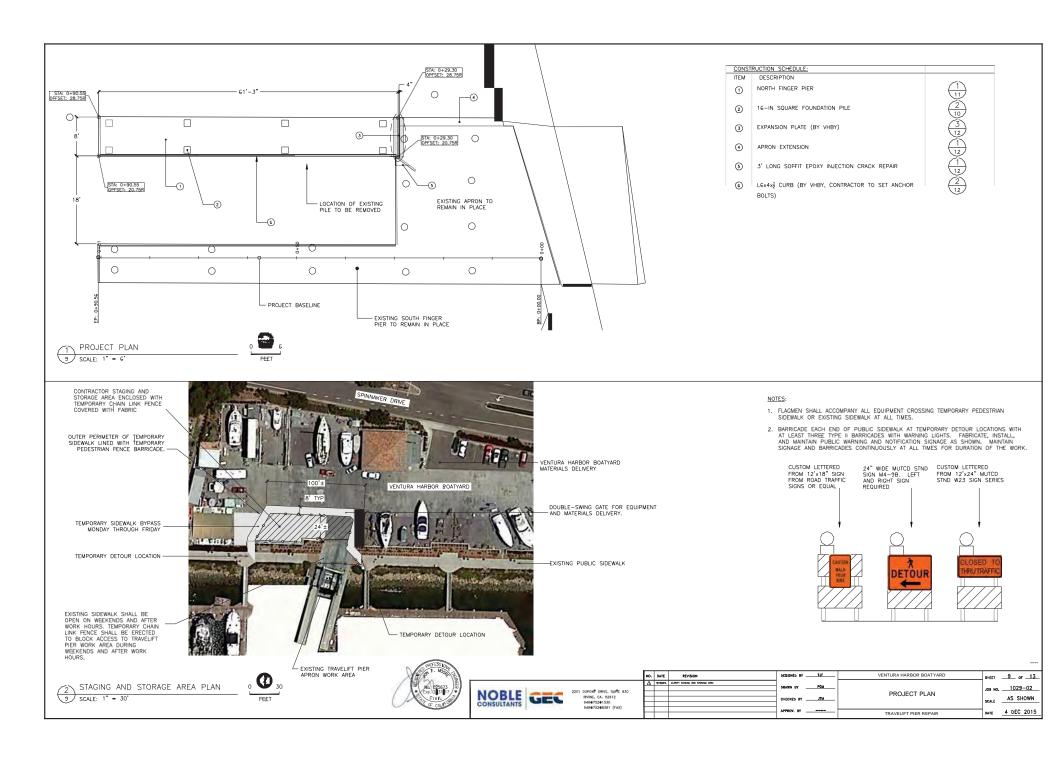
2201 DUPONT DRIVE, SUITE 830 IRVINE, CA. 92612 949075201530 949075208381 (FAX)

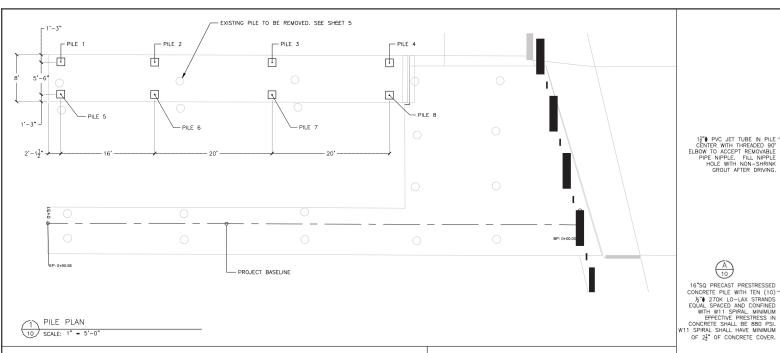
NO.	DATE	REVISION	DESIGNED BYTJF	VENTURA HARBOR BOATYARD	SHEET	5 or 13
Е			DRAWN BY PGH		JOB NO.	1029-02
E			CHECKED BY	DEMOLITION PLAN	SCALE	AS SHOWN
			APPROV. BY	TRAVELIFT PIER REPAIR	DATE	4 DEC 2015
_						







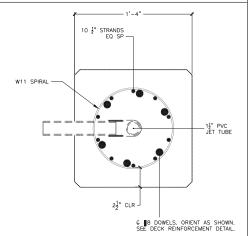




PILE SCHEDULE

PILE NO.	STATION	OFFSET	NORTHING	EASTING	APPROX. MUDLINE ELEV	BUTTELEV	TIP ELEV	PILE LENGTH
1	0+88.43	27.50	1,912,564.583	8,180,316,656	-16	1166	43,32	55
2	0+72.43	27.50	1,912.580.755	6,180,332.192	-10	11.68	43.32	55
3	0+52.43	27,50	1,912,555,970	6,180,351.611	-7	11,68	-33,32	45
4	0+32.43	27.50	1,912,551.185	6,180,371,030	.0	11,88	-33.32	45
5	0+88 43	22 00	1,912,559.242	6,180,315,340	~16	11.68	43.12	55
6	0+72.43	22.00	1,912,555.415	6,180,330,876	-10	11.68	43.32	55
7	0+52.43	22.00	1,912,550.630	9,180,350.295	7	11.68	-33.32	45
8	0+32.43	22.00	1,912,545.845	6,180,369 714	. 0	11.68	-33.32	45

- REMOVE AND REPLACE EXISTING SLOPE PROTECTION STONE AS REQUIRED TO UNOBSTRUCT DRIVING FOR PILE NOS. 4 AND 8.
- JET PILE TO WITHIN EIGHT (8) FEET OF SPECIFIED TIP ELEVATION THEN DRIVE TO SPECIFIED TIP ELEVATION WITH APPROVED IMPACT HAMMER THAT HAS SUFFICIENT RAM WEIGHT AS SPECIFIED ON SHEET 2.









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NOBLE	GE
CONSULTANTS	

	_	
DRIVE, SUITE 830		
CA. 92612		
5201530		
5208381 (FAX)		

HO. DATE

DESIGNED BYTJF	VENTURA HARBOR BOATYARD	SHEET	_10_ or _13_
DRAWN BY PGM	BU 5 BL 44		1029-02
CHECKED BYJTM	PILE PLAN	SCALE	AS SHOWN
APPROV. 8Y	TRAVELIFT PIER REPAIR	DATE	4 DEC 2015

BUTT ELEV = +11.85'

7' LONG DOWEL TUBES

VARIES FROM 45 TO 55 FEET. SEE PILE SCHEDULE.

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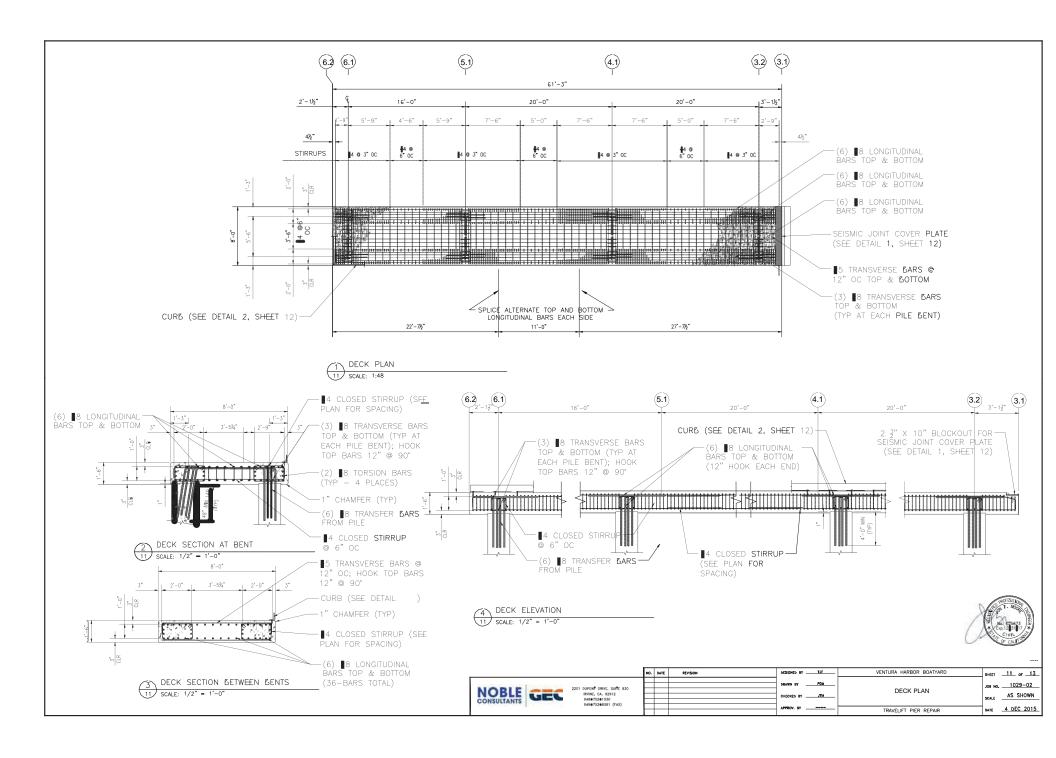
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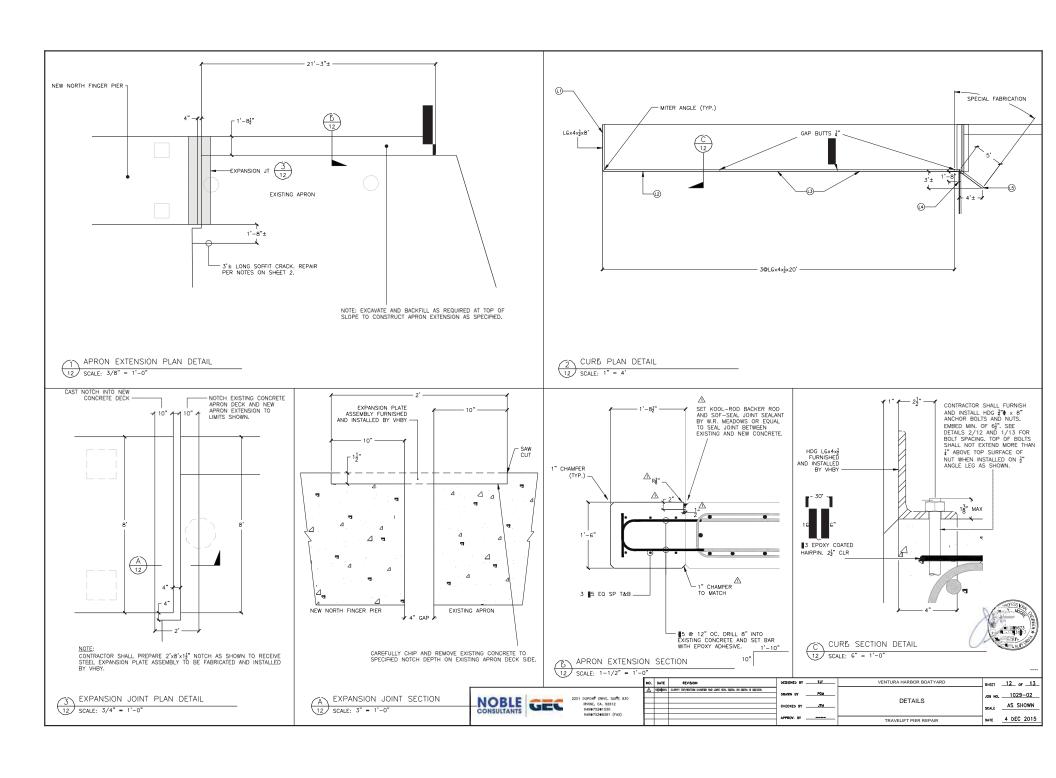
L/3 @ 2"

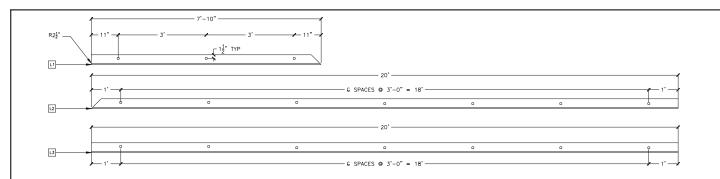
BALANCE @ 6"

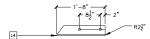
L/3 @ 3"

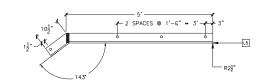
5 @ 1"











CURB ANGLE DETAIL

13 SCALE: 1" = 1'-0"

NOTES:

- ALL ANGLE SHALL BE L6x4x² CONFORMING TO ASTM A36. HOT DIP GALVANIZE AFTER FABRICATION.
- 2. ALL ANGLE SHALL BE FURNISHED AND INSTALLED BY VHBY.
 CONTRACTOR SHALL SET ALL CAST—IN—PLACE ₹ ANCHOR
 BOLTS TO MATCH THE BOLT PATTERN SHOWN.
- 3. ALL HOLES ("● FOR " BOLTS.







	HO.	DATE	REVISION	DESIGNED BYTJF	VENTURA HARBOR BOATYARD	SHEET	_13_ or _13_		
1				DRAWN BY PGM	5.55.0.755.455.4	J08 NO.	1029-02		
ı				снескеь ву	FABRICATED METAL	SCALE	AS SHOWN		
				APPROV. 8Y	TRAVELIFT PIER REPAIR	DATE	4 DEC 2015		

