

CALIFORNIA COASTAL COMMISSION

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STAFF REPORT: CONSENT CALENDAR

Application No.: 5-14-1790

Applicant: Rico Garcia

Agent: Gregory Reid, P.E.

Location: 4011 Ondine Circle, Huntington Beach, Orange County
(APN 178-363-08)

Project Description: Repairs to an existing approximately 103 linear foot long seawall/bulkhead consisting of removal of seawall cut-off wall for access to and repair of timber piles; removal of 38.56 sq. ft. of existing concrete overpour along the toe of the bulkhead footing to allow for installation of 103 linear feet of marine grade vinyl ester resin sheet pile panels along the toe of the seawall footing imbedded into the harbor bottom and flush along the vertical face of the seawall footing thereby avoiding fill of open coastal waters, and injection of grout to fill the voids behind the seawall and around the repaired wood piles on a single family residential lot.

Staff Recommendation: Approval with conditions

SUMMARY OF STAFF RECOMMENDATION:

The issues raised by the proposed project and addressed in this staff report relate to impacts to the marine environment due to soft bottom habitat impacts and the use of plastic materials in the marine environment. The project will result in a net impact of 5.56 square feet of soft bottom habitat that will be mitigated through the restoration of 33.00 square feet of soft bottom habitat on-site, of which a minimum of 11.12 square feet (2:1 mitigation ratio) will be used for mitigation for the subject project. The 21.88 sq. ft. of excess soft bottom habitat created will be reserved by the applicant for mitigation of future, similar work onsite. No rock/toe-stone is proposed. The project

has been conditioned to monitor the plastic sheet pile panels and to amend this permit or apply for a new permit if new information identifies an environmentally superior alternative to plastic. As conditioned, the project will not result in significant adverse impacts on water quality or marine habitat. In addition, due to the absence of eelgrass in the project area, and as conditioned, adverse impacts upon eelgrass are not anticipated. A *Caulerpa taxifolia* survey was conducted at the site and none was found.

Staff is recommending **approval** of the proposed coastal development permit with **nine (9)** special conditions. The special conditions would require: **1) Bulkhead Monitoring Plan; 2) Alternatives to Plastic; 3) Soft Bottom Mitigation; 4) Construction Responsibilities and Debris Removal; 5) Pre- and Post-Construction Eelgrass Surveys; 6) Pre-Construction *Caulerpa taxifolia* Survey; 7) Conformance with Proposed Plan; 8) Public Rights; and 9) Assumption of Risk, Waiver of Liability and Indemnity.**

The City of Huntington Beach has a certified Local Coastal Program (“LCP”). However, the proposed project is located seaward of the mean high tide line and thus is within the Coastal Commission’s original permit jurisdiction area. Therefore, pursuant to Section 30519 of the Coastal Act, the standard of review is the Chapter 3 policies of the Coastal Act. The certified LCP may be used for guidance in evaluating the proposed project for consistency with the Chapter 3 policies of the Coastal Act.

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EXHIBITS

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I. MOTION AND RESOLUTION

Motion:

*I move that the Commission **approve** the coastal development permit applications included on the consent calendar in accordance with the staff recommendations.*

Staff recommends a **YES** vote. Passage of this motion will result in approval of all of the permits included on the consent calendar. The motion passes only by affirmative vote of a majority of the Commissioners present.

Resolution:

The Commission hereby approves a coastal development permit for the proposed development 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 and will not prejudice the ability of the local government having jurisdiction over the area to prepare a Local Coastal Program conforming to the provisions of Chapter 3. 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 Acknowledgment.** 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 or 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. **Bulkhead Monitoring Plan.** The permittee shall maintain the bulkhead reinforcement in good condition throughout the life of the development. PRIOR TO ISSUANCE OF THE COASTAL DEVELOPMENT PERMIT, the applicants shall submit to the Executive Director for review and approval a Bulkhead Monitoring Plan. The permittees, and their successors in interest, shall be responsible for carrying out all provisions of the approved Monitoring Plan for as long as the bulkhead reinforcement remains in place. The monitoring plan, at a minimum, shall provide for: (a) regular inspections by a qualified person familiar with bulkhead structures who is able to document via photos and provide written descriptions based on personal observation whether any cracks, breaks or deterioration have occurred. These inspections shall be performed at least every 2 years; (b) inspections shall examine the exposed portions of the bulkhead reinforcement (to the mud line) for signs of weakness or possible failure, including, but not limited to, cracking, bending, splitting, splintering, or flaking. All weak or potential failure areas should be marked on an as-built plan of the bulkhead reinforcement, and there should be photographs and text to explain the nature and extent of each weakness.

Inspection reports shall be prepared and conveyed to the Executive Director within 30 days of the inspection work. These reports shall provide information on and photographs from the date of the inspection, the name and qualifications of the person performing the inspection, and an overall assessment of the continued integrity of the bulkhead reinforcement. If the inspection identifies any areas where the bulkhead reinforcement has been damaged, the report shall identify alternatives to remedy the damage.

In the event that any sections of the bulkhead reinforcement are damaged or flaking, the permittees shall notify the Commission within 10 days; and in such event, within 30 days of such notification, submit to the Commission a complete application for any coastal development permit amendment, or new permit, necessary for the repair or replacement of the bulkhead reinforcement.

2. **Alternatives to Plastic.** By acceptance of this permit, the applicant agrees to submit an application for an amendment to this permit or a new coastal development permit if new information becomes available that indicates that plastic has harmful effects on the marine environment, and that environmentally superior, feasible alternative(s) are available. The amendment or new coastal development shall include measures to eliminate or significantly reduce the adverse impacts of the plastic including, if necessary, the replacement of the bulkhead.

3. **Soft Bottom Mitigation.** By acceptance of this permit, the applicant shall assure that the soft bottom mitigation shall be carried out as proposed by the restoration of 33.00 sq. ft. of soft bottom habitat with the removal of concrete overpour at the existing bulkhead toe at the subject site and furthermore agrees that the 21.88 sq. ft. of excess mitigation credit area at the project site (i.e., 33.00 sq.ft. of restored soft bottom habitat minus 11.12 sq. ft. of required 2:1 soft bottom mitigation for the proposed project's 5.56 sq. ft. of impact under CDP no. 5-14-1790) shall be reserved as mitigation for potential future development that may be needed to maintain the bulkhead at 4011 Ondine Circle which may result in soft bottom habitat impacts requiring mitigation. Within 30 days of completion of the mitigation of soft bottom habitat, the applicant shall submit, to the Executive Director for review and approval, a post-construction monitoring report from a qualified biologist who verifies that the applicant has created the proposed 33.00 sq. ft. of soft bottom habitat mitigation.

No future development on the subject site including, but not limited to, development on the bulkhead or soft bottom area on the subject site shall occur without a Coastal Commission approved amendment to this Coastal Development Permit unless the Executive Director determines that no amendment is legally required.

4. **Construction Responsibilities and Debris Removal.** The permittee shall comply with the following construction related requirements:
 - A. No demolition or construction materials, equipment, debris, or waste shall be placed or stored 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 project site within 24 hours of completion of the project;
 - 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 the intertidal zone;
 - E. If turbid conditions are generated during construction a silt curtain will be utilized to control turbidity;
 - F. 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;
 - G. Non buoyant debris discharged into coastal waters will be recovered by divers as soon as possible after loss;

- H. The applicant shall provide adequate disposal facilities for solid waste, including excess concrete, produced during demolition or construction;
 - I. 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;
 - J. 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;
 - K. Sand from the beach, cobbles, or shoreline rocks shall not be used for construction material;
 - L. 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;
 - M. The discharge of any hazardous materials into any receiving waters shall be prohibited;
 - N. 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;
 - O. 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
 - P. All BMPs shall be maintained in a functional condition throughout the duration of construction activity.
5. **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. If any portion of the project commences in a previously undisturbed area after the last valid eelgrass survey expires, a new survey is required prior to commencement of work in that area. The survey shall be prepared in full compliance with the “*Southern California Eelgrass Mitigation Policy*” Revision 8 (except as modified by this special condition) adopted by the National Marine Fisheries Service and shall be prepared in consultation with the California Department of Fish and Game. The applicant shall submit the eelgrass survey for the review

and approval by 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.

Post-Construction Eelgrass Survey. If any eelgrass is identified in the project area by the survey required by this special condition, 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*” Revision 8 (SCEMP) (except as modified by this special condition) adopted by the National Marine Fisheries Service and shall be prepared in consultation with the California Department of Fish and Game. The applicant shall submit the post-construction eelgrass survey for the review and approval by 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 1.2:1 ratio on-site, or at another location, in accordance with the SCEMP. All impacts to eelgrass habitat shall be mitigated at a minimum ratio of 1.2:1 (mitigation:impact). The exceptions to the required 1.2:1 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 legally required.

6. **Pre-Construction *Caulerpa taxifolia* Survey.** Not earlier than 90 days nor later than 30 days prior to commencement or re-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 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. If any portion of the project commences in a previously undisturbed area after the last valid *Caulerpa taxifolia* survey expires, a new survey is required prior to commencement of work in that area.

The survey protocol shall be prepared in consultation with the Regional Water Quality Control Board, the California Department of Fish and Game, and the National Marine Fisheries Service. Within five (5) business days of completion of the survey, the applicant shall submit the survey:

- (1) for the review and approval by 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 & Game (858/467-4218) or Robert Hoffman, National Marine Fisheries Service (562/980-4043), or their successors.

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 *Caulerpa taxifolia* discovered within the project and 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 *Caulerpa 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.

7. **Conformance with Proposed Plan.** The applicant shall conform to the plans dated 9/25/2014, received in the Commission's office on 11/5/2014, including the restoration of 33.00 square feet of soft bottom habitat at 4011 Ondine Circle (to be used as mitigation for soft bottom impacts at the subject site) as described in the *Pre-Construction Marine Biological Assessment for a Seawall Repair Project at 4011 Ondine Circle, Huntington Harbour, CA*, prepared by Coastal Resources Management, Inc., dated 9/19/2014. Any proposed changes to the approved plan shall be reported to the Executive Director. No changes to the approved plan shall occur without a Commission amendment to this coastal development permit unless the Executive Director determines that no amendment is legally required.
8. **Public Rights.** The Coastal Commission's approval of this permit shall not constitute a waiver of any public rights that exist or may exist on the property. The permittee shall not use this permit as evidence of a waiver of any public rights that may exist on the property.
9. **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 waves, storm waves, 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.

IV. FINDINGS AND DECLARATIONS:

A. PROJECT LOCATION & DESCRIPTION

The proposed project is the repair of an existing concrete bulkhead. The bulkhead wall is supported by untreated timber piles that extend below the bulkhead footing. In the past 40-50 years since the creation of the Harbor, sediments have settled or eroded away from the toe of the bulkhead and from beneath the bulkhead footing exposing the timber piles. The applicant's engineering consultant has indicated that undermining of the bulkhead footings does not affect the structural integrity of the wall. However, the exposure allows access to the timber piles by marine wood boring organisms.

The wood boring organisms house themselves and feed on the wood piles, which decreases the cross section of the pile, and decreases the pile's ability to support the bulkhead. If protective measures are not implemented, damage to the bulkhead could result, leading to failure of the bulkhead and damage to the residences landward of the bulkhead.

During a preliminary dive inspection of the seawall, the applicant's marine engineer discovered voids beneath the seawall footing, exposing the existing timber piles that provide support to the 103 foot long concrete bulkhead to potential deterioration. The applicant proposes to remove a concrete cut-off wall for full access to the timber piles in order to conduct a thorough inspection of the timber piles and repair any damaged piles. Following repair of any damaged piles, the applicant proposes removal of existing concrete overpour along the toe of the seawall/bulkhead footing to allow the installation of panels (sheet piles) flush along the vertical face of the seawall footing to seal off the voids and prevent future development of voids beneath the seawall footing. After installation of the panels, grout will be injected into the voids beneath the footing and around the timber piles supporting the seawall thereby sealing the untreated timber piles and protecting them from marine boring organisms, ensuring the necessary support to the bulkhead.

The proposed bulkhead foundation repair includes installation of 7/16th inch thick, 7' 6" tall, marine grade carbon fiber reinforced vinyl ester resin sheet pile panels immediately adjacent to the existing foundation footing of the existing 104 foot long bulkhead. The sheet pile panels are connected by 2 inch by 2 inch carbon fiber reinforced vinyl ester resin interlocks at the toe of the existing bulkhead footing, and the top of each panel of sheet pile is proposed to be anchored with bolts into the bulkhead footing to provide support. Grout will then be injected behind the sheet pile to fill the voids beneath the bulkhead foundation footing and around the untreated timber piles. Due to the voids and varying mudline depth along the toe of the bulkhead, the actual depth that the panels will extend into the harbor bottom below the bottom of the concrete bulkhead footing will vary. The minimum amount of panel penetration into the harbor bottom for structural stability has been determined to be at least 3.5 feet. Project Plans are included as **Exhibit 2**. No rock/toe-stone is proposed as part of the bulkhead repair as has been the case in other bulkhead repair projects within Huntington Harbor.

The proposed sheet pile panels will be installed using a modified driving hammer from a waterside work platform. No spuds or anchors or other bottom disturbing activities are associated with the work platform. The hammer size and impact is less than that needed to drive steel or PVC sheet piles due to the material properties of the carbon fiber reinforced vinyl ester resin sheet piles. Each sheet pile has an interlocking mechanism that acts as a guide to keep the sheet pile aligned while driving and provides for a mechanical attachment at each joint. The sheet piles will attach to the wall footing and extend the entire length of the property. The piles will terminate at each end of the property. Due to the relatively thin nature of the sheet piles (7/16th inch thick), no special termination or transition is required. Any future protection, repair, or replacement of the bulkheads at the adjacent properties can progress unimpeded by the protective measures proposed at the subject site.

The proposed project site is located at 4011 Ondine Circle in Huntington Harbor in the City of Huntington Beach, Orange County (**Exhibit 1**). Huntington Harbor was developed in the 1960s and constructed using cast in place, reinforced concrete seawall/bulkheads with foundations supported on vertical and battered (i.e., angled) untreated timber piles. Single family residences are located

behind the bulkhead and private boat docks associated with the residences are located seaward of the bulkhead. The bulkhead at the subject site is approximately 103 feet long.

The City has a certified Local Coastal Program. However, because the proposed development is located seaward of the mean high tide line (seaward of the existing bulkhead), the project falls within the Commission's retained permit jurisdiction. No public access currently exists at the project site. The nearest public access in the area is at a small pocket beach located at the Davenport Drive bridge (approximately 1,150 feet to the south).

B. MARINE ENVIRONMENT

Fill of Coastal Waters – Soft Bottom Impacts

The proposed development will occur in the waters of Huntington Harbour, in an area that is entirely submerged. The proposed placement of the sheet pile panels and interlocks would result in the permanent coverage of 5.56 square feet of soft bottom habitat and associated benthic (bottom-dwelling) organisms. The impacted habitat consists of soft bottom sediments containing amphipods and hydroids. These species are common to soft bottom habitat throughout the harbor. No sensitive plant or wildlife species are known to occur within this habitat at the subject site.

To mitigate the permanent coverage of 5.56 square feet of soft bottom habitat, the applicant proposes to remove existing concrete overpour adjacent to the bulkhead which dates from the time of the bulkhead's original construction in the 1960s. The area of existing concrete overpour at the subject site proposed to be removed is 38.56 sq. ft. The area of concrete overpour was determined through field measurements by the applicant taken along the bulkhead footings (**Exhibit 3**). Since the area of concrete overpour proposed for removal exceeds the area of sheet pile being installed, there will be an increase in soft bottom of 33.00 sq. ft. (38.56 sq.ft. overpour area removed minus 5.56 sq. ft. taken up by proposed new sheet piles).

In similar circumstances, the Commission has found a mitigation ratio of 2:1 (mitigation to impact) to be acceptable and prefers that mitigation occur on-site and if not possible in the vicinity. The required soft bottom mitigation at the subject site (at a 2:1 mitigation ratio) requires creation of 11.12 sq. ft. of newly created soft bottom habitat; as proposed, the project would result in an increase of soft bottom habitat of 33.00 sq. ft. in Huntington Harbor, exceeding the required mitigation by 21.88 sq ft. The proposed project and mitigation have been reviewed and accepted by the California Department of Fish & Game.

The applicant proposes to reserve the 21.88 sq. ft. of excess soft bottom habitat created by this project (33.00 sq.ft. restored soft bottom habitat minus 11.12 sq. ft. of soft bottom mitigation) as a credit area to mitigate potential future development that may be needed to maintain the seawall structure at the site that may require soft bottom habitat mitigation. As proposed, future development that may be needed to maintain the seawall means work that impacts the soft bottom along the toe of the bulkhead at this property and does not include any impacts associated with off-site projects. The Commission imposes **Special Condition 3** to limit the use of the excess mitigation credit area for future, similar projects onsite only and require the submission of a post-construction monitoring report verifying the amount of soft bottom mitigation area created.

Thus, the proposed project as conditioned to carry out the proposed mitigation is consistent with the requirements of Section 30233 regarding fill of coastal waters in that the project be an allowable use, the least environmentally damaging feasible alternative, and provides adequate mitigation.

Shoreline Protection

The proposed project involves the fill of coastal waters in the form of the 103 linear feet of 7/16th inch thick sheet piles with 2-inch by 2-inch interlocks for a total fill amount of 5.56 sq. ft. The purpose of the proposed fill is to protect the existing residence, which is not one of the seven allowable uses enumerated for allowable fill under section 30233 of the Coastal Act. However, Section 30235 of the Coastal Act requires the Commission to approve seawalls and other similar structures when such protection structures are necessary to protect existing primary structures and provided that the protection structures are designed to eliminate or mitigate adverse impacts on local shoreline sand supply.

Alternatives considered were: 1) installation of driven sheet piles with rip rap rock at the base; 2) concrete encasement of the existing wood piles in place; 3) the use of steel sheet piles rather than plastic (ester vinyl resin); 4) placement of filter fabric across the void to be held in place by new rock; and 5) repair of individual piles as they become damaged (do nothing alternative). All of the alternatives other than the proposed project would result in greater impacts to the marine environment. Thus, the proposed project is the least environmentally damaging feasible alternative.

The proposed bulkhead reinforcement is necessary to maintain the existing bulkhead and thus to protect the adjacent single family residence. Therefore, the Commission finds that the proposed project is consistent with Section 30235 of the Coastal Act.

Water Quality and Construction Impacts

Due to the proposed project's location in the water, the proposed work may have adverse impacts upon water quality and the marine environment. To address potential adverse impacts to water quality the applicant has proposed a number of Best Management Practices including: monitoring for adherence to the Regional Water Quality Control Board specifications for discharges limiting the dispersion of any turbidity plume for the duration of construction; if regulatory levels are exceeded, work shall stop until turbidity decreases and corrective actions (including reducing the rate of construction activities) are implemented; disposal of all debris and trash in suitable containers on land at the end of each construction day; and prohibition of the discharge of hazardous materials into the waters of Huntington Harbor. In addition, **Special Condition 4** prohibits the improper storage of construction equipment and materials during construction and requires specific construction responsibilities and debris removal procedures. Thus, the proposed project is consistent with the requirements of Sections 30230 and 30231 regarding protection of coastal waters.

Plastics in the Marine Environment

The Commission has expressed concern about the use of plastic in the marine environment. In past actions, the Commission has accepted plastic for the proposed purpose when monitoring is included and when future alternatives are considered. Consequently the plastic sheet piles must be monitored to ensure that they are maintained in an environmentally safe operating condition and replaced when damage or degradation has occurred. To minimize the potential of the plastic sheet piles breaking apart and entering the water due to damage or deterioration, a special condition is imposed which requires that the project be carefully monitored at least once every two years for the life of

the project. Further, the project has been conditioned to require the applicant to submit an application for an amendment to this permit or a new coastal development permit if new information becomes available that indicates that plastic has harmful effects on the marine environment, and that environmentally superior, feasible alternative(s) are available. The Commission has found such conditions necessary in past actions (5-12-173 (Sackin & Pryor); 5-10-106 (Hernandez); 5-03-078 & 5-03-078-A1 (Buchanan), 5-06-436 & 5-06-438 (Tetra Tech, et al)).

Eelgrass

An eelgrass survey was conducted on September 14, 2014 as part of the Pre-Construction Biological Survey Assessments prepared by Coastal Resources Management and submitted with the CDP application. The survey found no eelgrass within the project vicinity. Due to the ephemeral nature of eelgrass, however, an eelgrass certification is only valid until the next period of active growth. More than a year may elapse before construction commences. Even though the eelgrass inspection indicates that no eelgrass is present, and therefore eelgrass is not expected to be impacted by the proposed project, eelgrass may have established within the project area between the time the survey was conducted and commencement of construction. If eelgrass is present in the project area, adverse impacts from the proposed project could result. Therefore, measures to avoid or minimize such potential impacts must be in place in order for the project to be found consistent with Section 30230 of the Coastal Act. The Commission imposes **Special Condition 5** which requires that a current pre-construction eelgrass survey be conducted within the boundaries of the proposed project during the period of active growth of eelgrass (typically March through October), and which identifies steps to be taken should eelgrass be found onsite via a future survey.

Caulerpa taxifolia

The Pre-Construction Marine Biological Survey Assessment prepared by Coastal Resources Management also surveyed the site for *Caulerpa taxifolia*. None was found at the subject site. However, *Caulerpa taxifolia* surveys are valid for a limited period of time (90 days for *Caulerpa taxifolia*). Due to the potential that commencement of construction may not occur during the period the survey remains valid, the Commission imposes **Special Condition 6** which requires a *Caulerpa taxifolia* survey not more than 90 days prior to commencement of construction. If construction does not occur within the respective time periods, subsequent surveys will be required. A special condition is imposed that identifies the procedures necessary to be completed prior to beginning construction in case the survey expires prior to commencement of construction. In addition, the special condition identifies post-construction procedures.

Conclusion

The proposed bulkhead repair project is necessary to protect the existing residence. Section 30235 of the Coastal Act requires the Commission to approve such projects when necessary to protect existing structures and when designed to eliminate or mitigate adverse impacts. A number of alternatives were considered, and the proposed alternative has been found to be the least environmentally damaging alternative. The proposed project includes on-site mitigation that exceeds the typically required 2:1 mitigation ratio. As proposed, and as conditioned, measures will be in place to protect water quality during and after construction. Also, as conditioned, surveys will be conducted pre- and post-construction to assure that any unanticipated impacts to eelgrass that may occur are addressed and to assure that the project will not result in the spread of the invasive algae *Caulerpa taxifolia*. Therefore, as conditioned, the Commission finds that the project is consistent with Sections 30210 and 30231 regarding protection of the marine environment.

C. PUBLIC ACCESS

The proposed development will not affect the public's ability to gain access to, and/or to use the coast and nearby recreational facilities. Therefore, as conditioned, the development conforms to Sections 30210 through 30214, Sections 30220 through 30224, and 30252 of the Coastal Act.

D. LOCAL COASTAL PROGRAM

Coastal Act section 30604(a) states that, prior to certification of a local coastal program ("LCP"), a coastal development permit can only be issued upon a finding that the proposed development is in conformity with Chapter 3 of the Act and that the permitted development will not prejudice the ability of the local government to prepare an LCP that is in conformity with Chapter 3. The Land Use Plan for the Sunset Beach was effectively certified on in 1982 and updated in 1992, however, Sunset Beach was annexed into the City of Huntington Beach effective August 2011. The City of Huntington Beach has since submitted an LCP Amendment to incorporate the Sunset Beach area into the City of Huntington Beach LCP. In the interim, Chapter 3 of the Coastal Act is the standard of review and the previously certified Sunset Beach LCP may be used as guidance. As conditioned, the proposed development is consistent with Chapter 3 of the Coastal Act. Approval of the project, as conditioned, will not prejudice the ability of the local government to prepare an LCP that is in conformity with the provisions of Chapter 3 of the Coastal Act.

E. CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

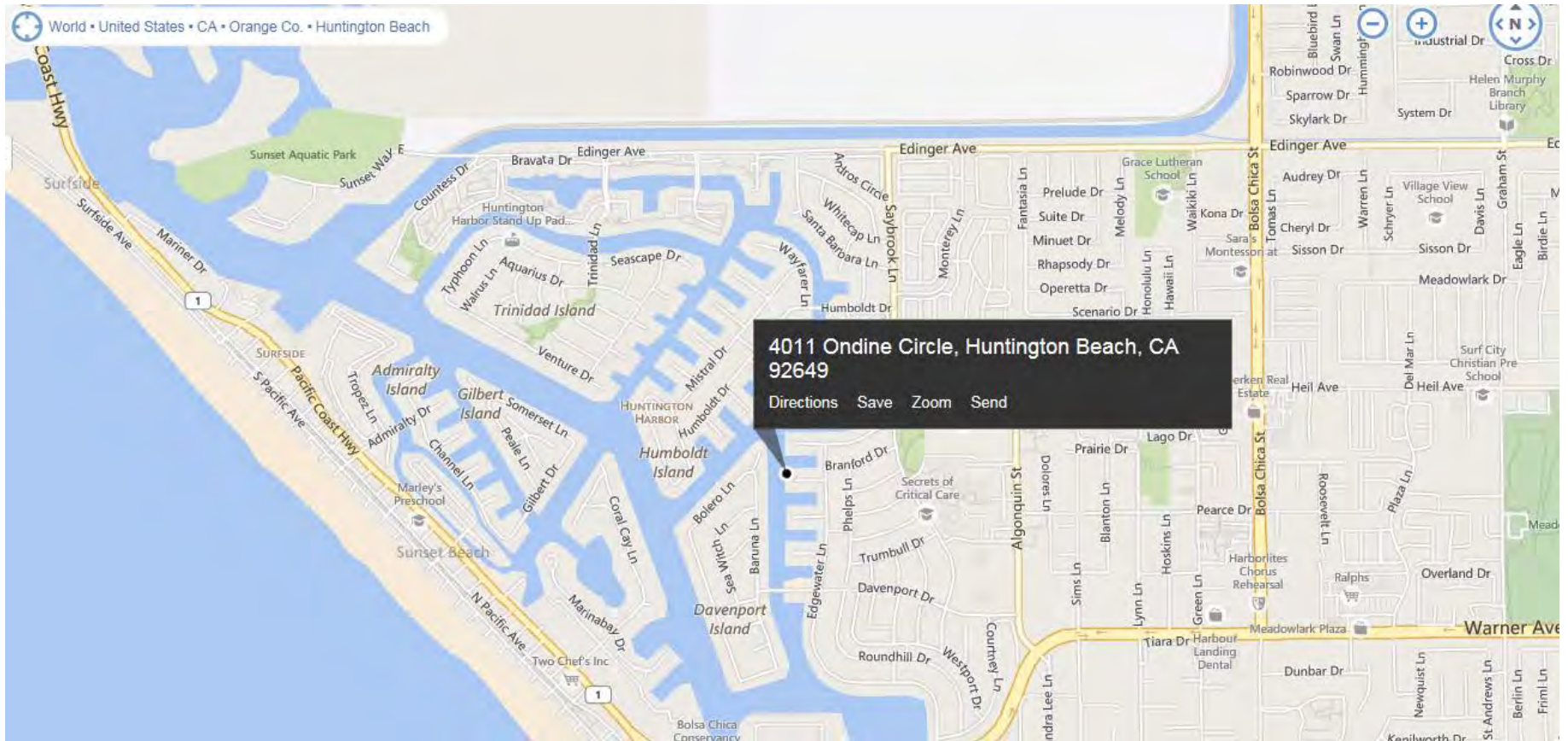
Section 13096 of the Commission's regulations requires Commission approval of Coastal Development Permit applications to be supported by a finding showing the application, as conditioned by any conditions of approval, to be consistent with any applicable requirements of the California Environmental Quality 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 which the activity may have on the environment.

The City of Huntington Beach is the lead agency responsible for CEQA review. As determined by the City, this project is categorically exempt from CEQA as a Class 1; Section 15301 exemption. As conditioned, there are no additional feasible alternatives or additional feasible mitigation measures available that would substantially lessen any significant adverse effect that the activity may have on the environment. Therefore, the Commission finds that the proposed project, as conditioned to mitigate the identified impacts, is the least environmentally damaging feasible alternative and can be found consistent with the requirements of the Coastal Act to conform to CEQA.

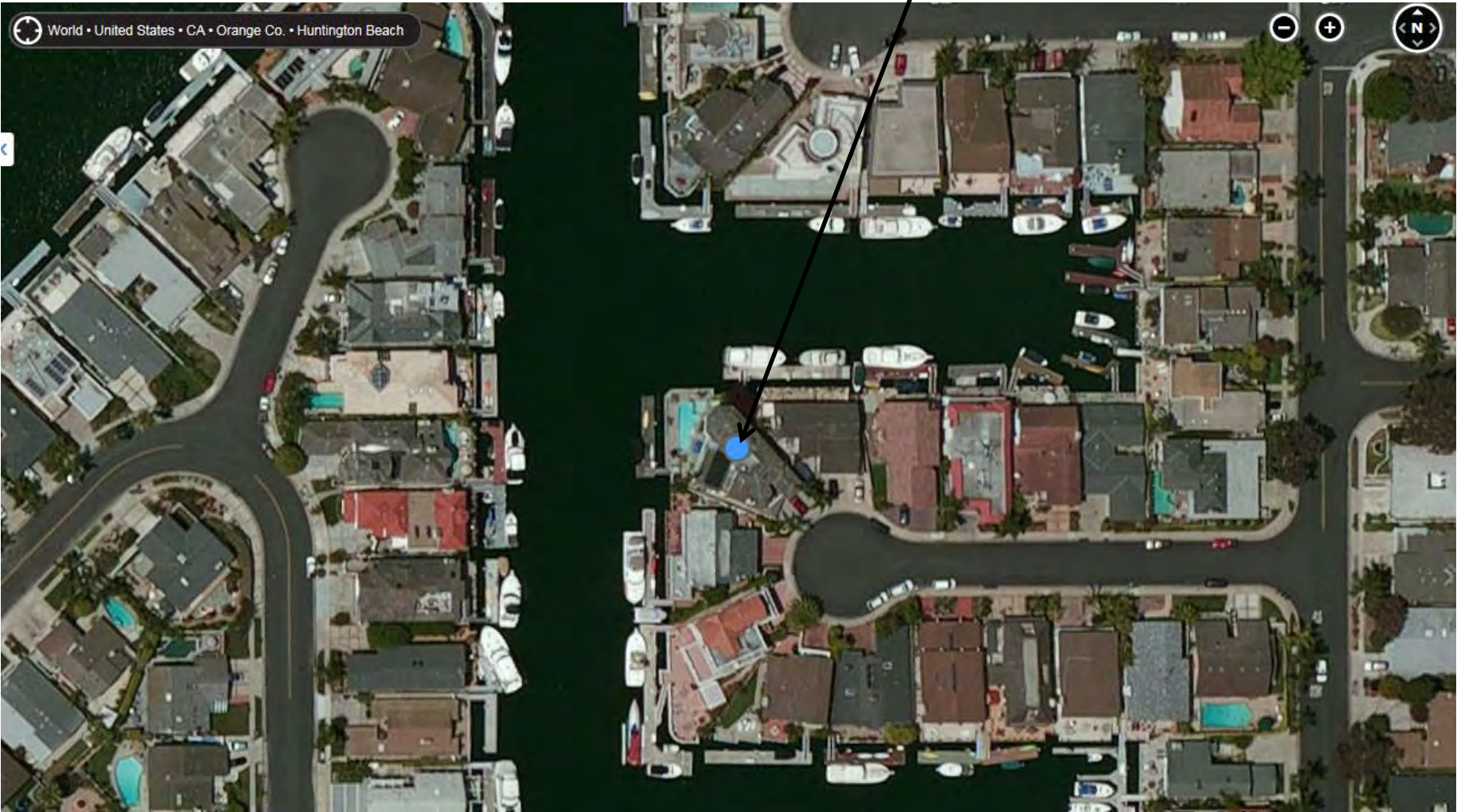
Appendix A - Substantive File Documents

- 1) City of Huntington Beach Local Coastal Program
- 2) City of Huntington Beach Approval in Concept dated 10/31/14
- 3) City of Huntington Beach CEQA Exemption, Class 1; Section 15301 filed 11/4/14
- 4) Coastal Resources Management, Inc., 19 September 2014, "Pre-Construction Marine Biological Assessment for a Seawall Repair Project at 4011 Ondine Circle, Huntington Harbour, CA"

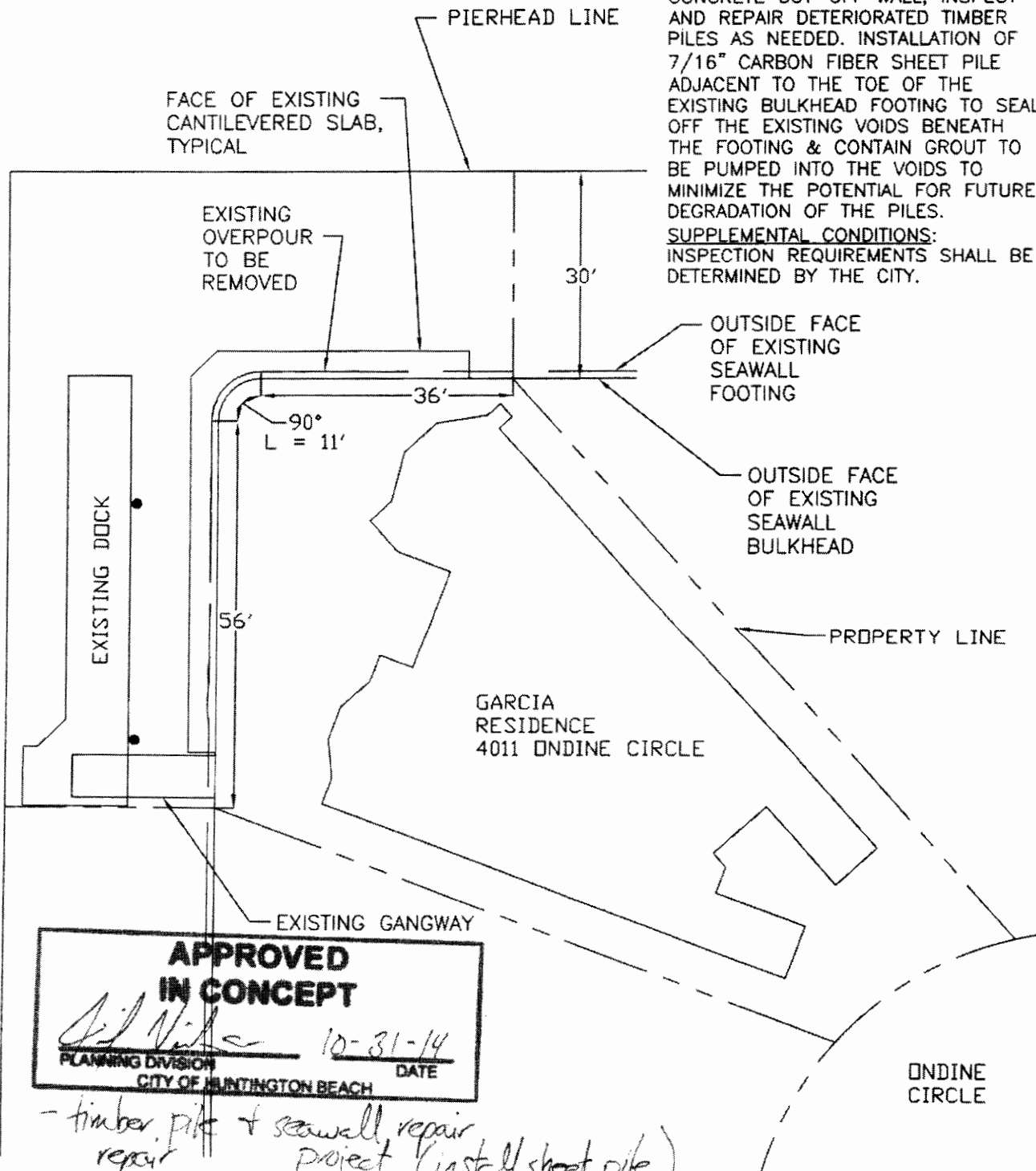
4011 Ondine Circle, Huntington Beach



4011 Ondine Circle,
Huntington Beach



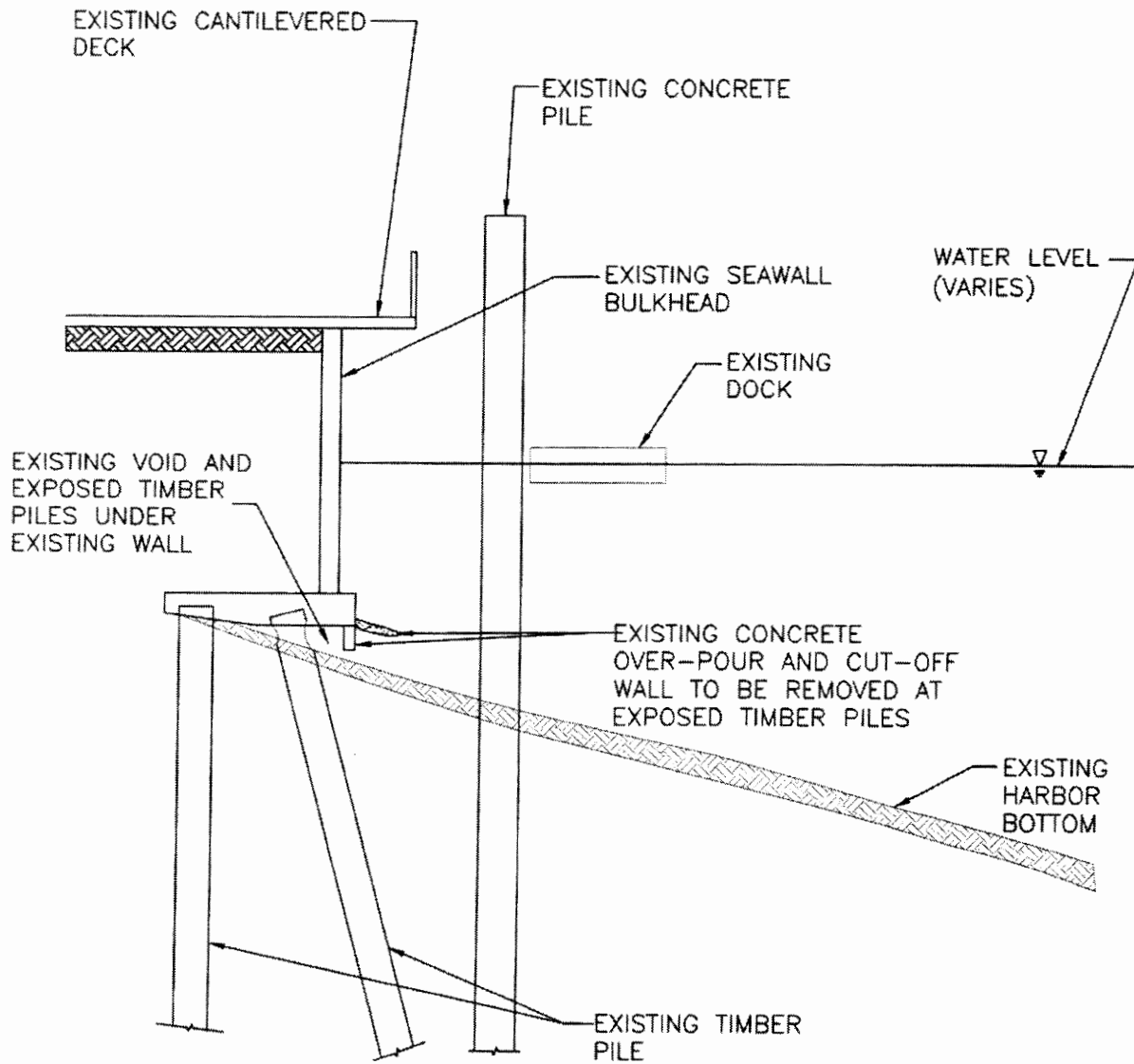
OWNER: RICO GARCIA
 4011 ONDINE CIRCLE,
 HUNTINGTON BEACH, CA 92649
PROJECT DESCRIPTION: REMOVAL OF
 CONCRETE CUT-OFF WALL, INSPECT
 AND REPAIR DETERIORATED TIMBER
 PILES AS NEEDED. INSTALLATION OF
 7/16" CARBON FIBER SHEET PILE
 ADJACENT TO THE TOE OF THE
 EXISTING BULKHEAD FOOTING TO SEAL
 OFF THE EXISTING VOIDS BENEATH
 THE FOOTING & CONTAIN GROUT TO
 BE PUMPED INTO THE VOIDS TO
 MINIMIZE THE POTENTIAL FOR FUTURE
 DEGRADATION OF THE PILES.
SUPPLEMENTAL CONDITIONS:
 INSPECTION REQUIREMENTS SHALL BE
 DETERMINED BY THE CITY.



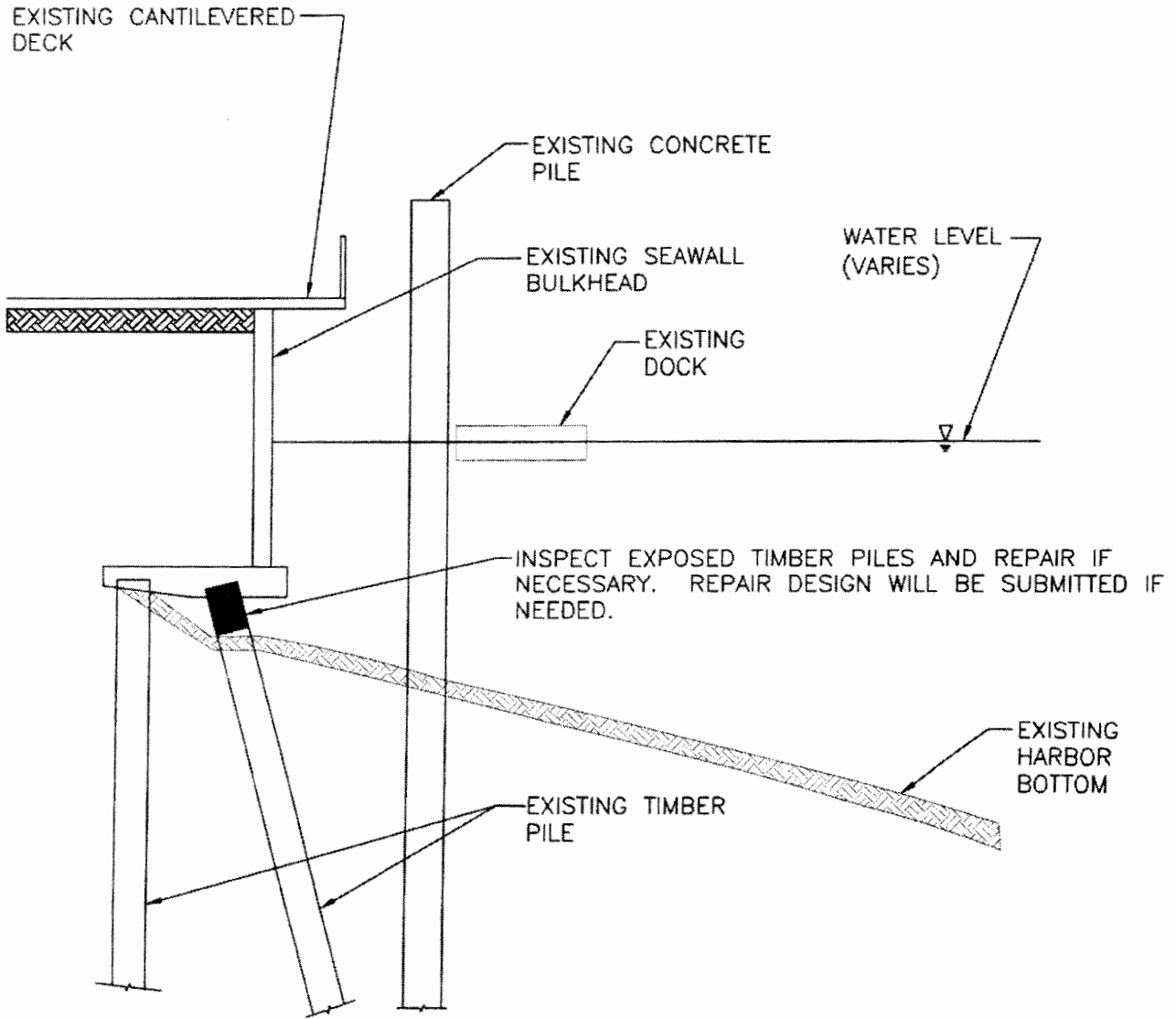
**APPROVED
 IN CONCEPT**
[Signature] 10-31-14
 PLANNING DIVISION DATE
 CITY OF HUNTINGTON BEACH

*- timber pile & seawall repair
 repair project (install sheet pile)*

StreamlinewEST ENGINEERING LLC	GARCIA SEAWALL HUNTINGTON BEACH, CA.	Designed by: GSR	Date: 9/16/2014	Job No. 14009
	EXISTING SITE PLAN	Drawn by: GSR	Scale: 1"=20'	PAGE 1 of 5



Streamlinewest ENGINEERING LLC	GARCIA SEAWALL HUNTINGTON BEACH, CA.	Designed by:	Date:	Job No.
		GSR	9/16/2014	14009
	EXISTING ELEVATION	Drawn by:	Scale:	PAGE
	GSR	1"=10'	2 of 5	
		Rev.		



Streamlinewest ENGINEERING LLC	GARCIA SEAWALL HUNTINGTON BEACH, CA.	<i>Designed by:</i> GSR	<i>Date:</i> 9/16/2014	<i>Job No.</i> 14009
		ELEVATION 2	<i>Drawn by:</i> GSR	<i>Scale:</i> 1"=10'
				<i>Rev.</i>

GENERAL NOTES:

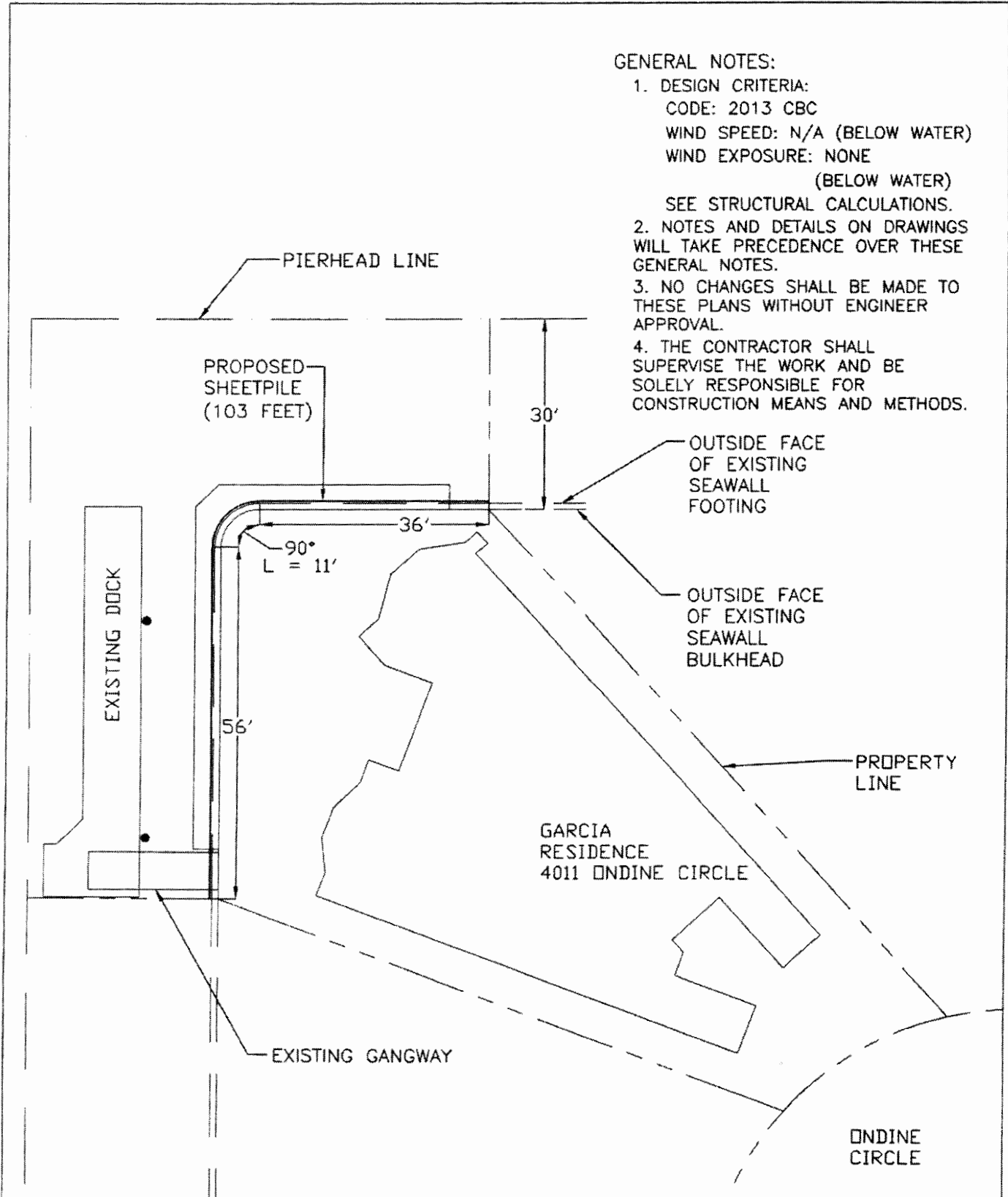
1. DESIGN CRITERIA:
 CODE: 2013 CBC
 WIND SPEED: N/A (BELOW WATER)
 WIND EXPOSURE: NONE
 (BELOW WATER)

SEE STRUCTURAL CALCULATIONS.

2. NOTES AND DETAILS ON DRAWINGS WILL TAKE PRECEDENCE OVER THESE GENERAL NOTES.

3. NO CHANGES SHALL BE MADE TO THESE PLANS WITHOUT ENGINEER APPROVAL.

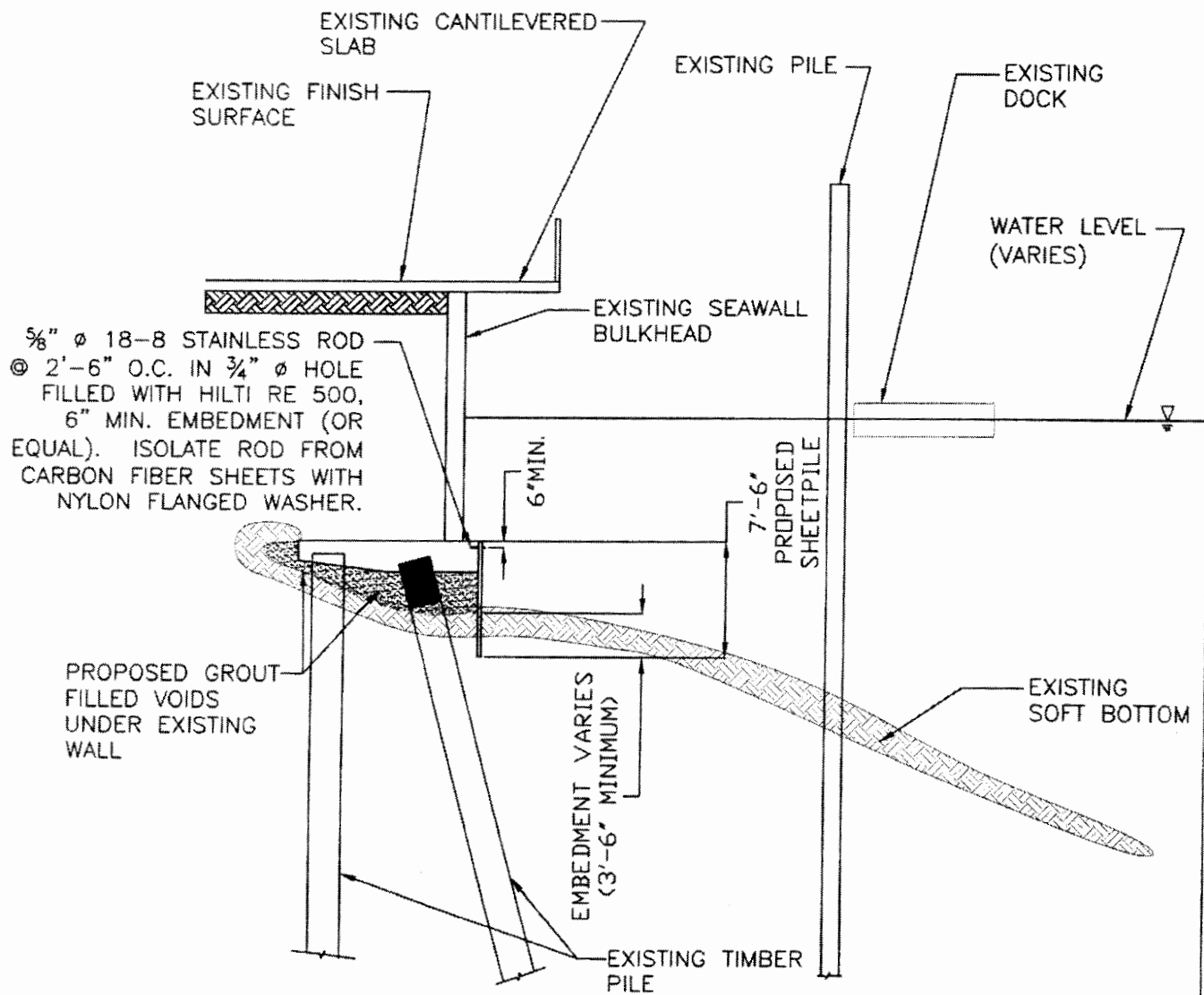
4. THE CONTRACTOR SHALL SUPERVISE THE WORK AND BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS.



StreamlinewEST ENGINEERING LLC	GARCIA SEAWALL HUNTINGTON BEACH, CA.	<i>Designed by:</i> GSR	<i>Date:</i> 9/16/2014	<i>Job No.</i> 14009
	PROPOSED SITE PLAN	<i>Drawn by:</i> GSR	<i>Scale:</i> 1"=20'	<i>PAGE</i> 4 of 5

GENERAL NOTES (CONT.):

5. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND GRADES. ANY CHANGES TO THE DIMENSION SHOWN ON THE PLANS SHALL BE BROUGHT TO THE ENGINEER FOR APPROVAL OR REDESIGN IF NECESSARY. ANY REDESIGN SHALL BE PROVIDED TO THE CITY PRIOR TO CONSTRUCTION.
6. ANY DISCREPANCIES FOUND BY THE CONTRACTOR WITHIN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ENGINEER FOR CLARIFICATION.
7. FIELD VERIFY AND PROTECT ALL UTILITIES AND EXISTING IMPROVEMENTS. ANY DAMAGE RESULTING FROM THE WORK OF THE CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL COST.
8. ALL WORK AND BMP'S SHALL BE PERFORMED IN CONFORMANCE WITH ALL PERMIT CONDITIONS.
9. SHEETPILE ARE TO BE 7/16" CARBON FIBER REINFORCED SHEETS.



Streamlinewest ENGINEERING LLC	GARCIA SEAWALL HUNTINGTON BEACH, CA.	Designed by: GSR	Date: 9/16/2014	Job No. 14009
	REPAIR ELEVATION 3	Drawn by: GSR	Scale: 1"=10' Rev.	PAGE 5 of 5

Project: Garcia Seawall Repair
Location: 4011 Ondine Circle, Huntington Beach, CA 92649
Date: 9/8/2014

Sheetpile Area Calculations			
Length of seawall footing (ft):	103		
Length of sheetpile (ft):	2.67		
# of Sheets:	38.63		
	Use:	39	
Area per Sheet (in ²)=	16.53	=	0.11 ft ²
Interlock area (ft ²):	0.028		
Area of impact (ft²) =	5.56		

OVER-POUR MEASUREMENTS						
Station 1		Station 2		Over-Pour Width (IN)	Distance (FT)	Over-Pour Area (SF)
Sta (FT)	Sta (IN)	Sta (FT)	Sta (IN)			
0	0	1	6	2	1.50	0.25
1	7	3	5	4.5	1.83	0.69
3	6	17	0	2	13.50	2.25
17	1	18	0	10	0.92	0.76
18	1	25	2	2	7.08	1.18
25	3	27	0	7	1.75	1.02
27	1	28	6	2	1.42	0.24
30	3	50	0	2	19.75	3.29
50	1	53	9	3	3.67	0.92
53	10	55	3	10.5	1.42	1.24
55	4	55	8	1.5	0.33	0.04
55	5	57	5	32	2.00	5.33
57	6	60	0	28	2.50	5.83
60	1	61	7	13	1.50	1.63
61	8	62	8	2	1.00	0.17
62	8	65	8	6	3.00	1.50
69	9	70	9	3	1.00	0.25
72	0	76	6	10	4.50	3.75
72	6	79	0	3	6.50	1.63
79	1	83	0	6	3.92	1.96
87	1	103	0	3.5	15.92	4.64

Total: 38.56

Impact/Credit Area Summary

Property	Proposed Sheetpile Areas (SF)	Proposed Rock Footprint (SF)	Over-Pour Removal Area (SF)	Credit (+)/Impact (-) Area (SF)
Garcia	5.56	0.00	38.56	33.00

Note: The project results in a decrease in the size of the seawall structure and an increase in soft bottom habitat.