

ISSUES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property? (Sources: 1,5,7,14) Discussion: See discussion under item e.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of wastewater (Sources: 1,5,7,14)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Discussion b - e: The project site is located on the Bolsa Chica Mesa. Although the project site is generally flat, portions of the site slope gradually from west to east at elevations ranging from approximately 50 feet above mean sea level (msl) to approximately 38 feet msl. Finished pads on the west side of the project site, adjacent to Bolsa Chica Street, would remain relatively the same as the existing elevation. The eastern portion of the site adjacent to the Shea property would be raised three to nine feet over existing elevations requiring approximately 4,200 cubic yards of cut and 10,700 cubic yards of fill. Approximately 6,500 cubic yards of fill would need to be imported. According to the Geotechnical Feasibility Study (LGC, 2008), over-excavation and recompaction of near surface soils is anticipated to occur during site preparation and grading. Based on other projects in the vicinity, it is anticipated that the depth of over-excavation would not exceed five to 10 feet. According to the geotechnical feasibility study, the on-site soils are considered generally suitable for use as compacted fill and support the planned improvements, including the proposed drainage system. However, a site-specific geotechnical subsurface investigation will further evaluate the underlying soils and provide design recommendations to be implemented with the project.

The project proposes to develop on a currently undeveloped site and would increase the potential for on-site and off-site erosion. Off-site erosion could occur if stormwater were conveyed over the adjacent slope. However, the project is proposing to direct dry weather and low volume storm flows into a planned catch basin that would allow the water to infiltrate back into the ground. Large volume storm flows are proposed to be directed into the existing storm drain in Bolsa Chica Street, which flows into a concrete vault that treats the water before discharging. In addition, the project is required to prepare an erosion control plan subject to review by the Public Works Department.

Earth-disturbing activities associated with construction would be temporary. The State Water Resources Control Board and the City's Municipal Code require erosion and sediment controls for construction projects with land disturbance. The requirements include preparation and implementation of a Storm Water Pollution Prevention Plan (SWPPP), with construction-period and erosion and sediment controls; preparation and implementation of an erosion and sediment control plan, describing both construction-period and permanent erosion and sediment controls; and construction site inspection by the City. The project is subject to the provisions of the General Construction Activity Stormwater Permit adopted by the State Water Resources Control Board (SWRCB). The project applicant must submit a Notice of Intent (NOI) to the SWRCB for coverage under the Statewide General Construction Activity Stormwater Permit and must comply with all applicable requirements, including the preparation of a SWPPP, applicable NPDES Regulations, and best management practices (BMPs). The SWPPP must describe the site, the facility, erosion and sediment controls, runoff water quality monitoring, means of waste disposal, implementation of approved local plans, control of sediment and erosion control measures, maintenance responsibilities, and non-stormwater management controls.

The site has a low to moderate potential for expansive soils. The project is required to comply with

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Section 1802.2.2 Expansive Soils, of the City’s Municipal Code and Title 17 Excavation and Grading Code, in addition to implementing the recommendations of the geotechnical investigation to address potential impacts from expansive soils. In addition, the existing sewer system, constructed in 2006 for the Brightwater Development, would accommodate the proposed project and as such, the project would not require an alternative wastewater disposal system.

Compliance with all applicable codes and requirements, in addition to implementation of site-specific recommendations of a required geotechnical investigation, would ensure less than significant impacts would occur.

IV. HYDROLOGY AND WATER QUALITY. Would the project:

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|--------------------------------------------------------------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|
| a) Violate any water quality standards or waste discharge requirements? (Sources: 1,3,4,8) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Discussion: See discussion under p.

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| b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted? (Sources: 1,3,4,8) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Discussion: See discussion under p.

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| c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on or off-site? (Sources: 1,3,4,8) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Discussion: See discussion under p.

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| d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount or surface runoff in a manner which would result in flooding on or off-site? (Sources: 1,3,4,8) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Discussion: See discussion under p.

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e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff? (Sources: 1,3,4,8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Discussion: See discussion under p.				
f) Otherwise substantially degrade water quality? (Sources: 1,3,4,8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Discussion: See discussion under p.				
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map? (Sources: 1,3,4,8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Discussion: See discussion under j.				
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows? (Sources: 1,3,4,8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Discussion: See discussion under j.				
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam? (Sources: 1,3,4,8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Discussion: See discussion under j.				
j) Inundation by seiche, tsunami, or mudflow? (Sources: 1,3,4,8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Discussion g – j: The proposed project site is designated as Flood Zone X in the Flood Insurance Rate Map (FIRM), which is not subject to Federal Flood Development restrictions. The project site is not situated within the 100-year flood hazard area as mapped in the FIRM. The elevation of the site above mean sea level (ranging from 38’ – 50’) and insulation provided by the inner Bolsa Bay suggest that the probability of experiencing adverse effects from tsunamis and seiches is low at the site. Furthermore, the General Plan Environmental Hazards Element does not identify the subject site within a tsunami run-up area. No impacts would occur.

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k) Potentially impact stormwater runoff from construction activities? (Sources: 1,3,4,8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Discussion: See discussion under p.				
l) Potentially impact stormwater runoff from post-construction activities? (Sources: 1,3,4,8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Discussion: See discussion under p.				
m) Result in a potential for discharge of stormwater pollutants from areas of material storage, vehicle or equipment fueling, vehicle or equipment maintenance (including washing), waste handling, hazardous materials handling or storage, delivery areas, loading docks or other outdoor work areas? (Sources: 1,3,4,8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Discussion: See discussion under p.				
n) Result in the potential for discharge of stormwater to affect the beneficial uses of the receiving waters? (Sources: 1,3,4,8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Discussion: See discussion under p.				
o) Create or contribute significant increases in the flow velocity or volume of stormwater runoff to cause environmental harm? (Sources: 1,3,4,8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Discussion: See discussion under p.				
p) Create or contribute significant increases in erosion of the project site or surrounding areas? (Sources: 1,3,4,8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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Discussion a – f & k – p: The approximately 5-acre project site is currently undeveloped. A portion of the site is currently used for construction staging headquarters for the adjacent Brightwater development. The project proposes construction of a 22 unit single-family planned unit development and associated site improvements, which include infrastructure and street improvements, a 5,776 square foot open space area and a dry weather and low stormwater flow retention/infiltration system. The project site is located on the Bolsa Chica Mesa. Water bodies in the vicinity of the project site include the Bolsa Chica wetlands and the East Garden Grove – Wintersburg Channel. The project does not propose to alter the course of an existing stream or river. After construction, the project site would consist of approximately 51% landscaped area, 3% porous pavement and 46% impervious surface. The project does have the potential to increase runoff rate and volume during construction and post-construction, which could impact water quality. The proposed zoning text amendment will not have any impacts on hydrology and water quality.

Water quality standards and waste discharge requirements will be addressed in the project design and development phase pursuant to a Storm Water Pollution Prevention Plan (SWPPP) and Water Quality Management Plan (WQMP), prepared by a Civil or Environmental Engineer in accordance with the National Pollution Discharge Elimination System (NPDES) regulations and approved by the City of Huntington Beach Department of Public Works.

Construction Runoff and Erosion

The State Water Resources Control Board and the City’s Municipal Code require erosion and sediment controls for construction projects with land disturbance. The requirements include preparation and implementation of a Storm Water Pollution Prevention Plan (SWPPP), with construction-period and erosion and sediment controls; preparation and implementation of an erosion and sediment control plan, describing both construction-period and permanent erosion and sediment controls; and construction site inspection by the City. The project is subject to the provisions of the General Construction Activity Stormwater Permit adopted by the State Water Resources Control Board (SWRCB). The project applicant must submit a Notice of Intent (NOI) to the SWRCB for coverage under the Statewide General Construction Activity Stormwater Permit and must comply with all applicable requirements, including the preparation of a SWPPP, applicable NPDES Regulations, and best management practices (BMP). The SWPPP must describe the site, the facility, erosion and sediment controls, runoff water quality monitoring, means of waste disposal, implementation of approved local plans, control of sediment and erosion control measures, maintenance responsibilities, and non-stormwater management controls. Implementation of a SWPPP and applicable City and SWRCB requirements would ensure that runoff from construction of the project will not result in substantial erosion or flooding on- and off-site and impacts would be less than significant.

Post-construction Runoff and Erosion

The proposed storm drain system for the project incorporates a continuous deflection system (CDS) unit to treat stormwater flows as well as a manhole diversion structure designed to divert the “first flush” storm water runoff and dry weather nuisance flows to the proposed open space area where it will be infiltrated into the ground through a corrugated metal pipe retention system. Surface runoff will flow to catch basins connected to the CDS unit, which will function to remove debris, sediment, oil and grease from the street runoff prior to infiltration into the ground. In addition, porous pavers proposed in the driveways and on-street parking areas will intercept nuisance flows and “first flush” stormwater runoff and pre-treat the runoff prior to retention and infiltration. In addition to capturing runoff, the proposed drainage system would also facilitate water quality enhancement through removal of dissolved nutrients, bacteria and sediment through the soil’s natural filtering ability as well as act as a groundwater recharge system. Larger storm flows are proposed to bypass the retention system and flow into an existing privately owned 24-inch reinforced concrete pipe in Bolsa Chica Street, which would be treated and ultimately discharged into the Bolsa Chica Wetlands.

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In addition, the project is required to submit a Water Quality Management Plan (WQMP) for post-construction compliance with water quality standards and water discharge requirements subject to review and approval by the Department of Public Works. A preliminary WQMP identifies Routine Source Control and Structural BMPs as well as Site Design BMPs to be incorporated into the project.

Although the project does have the potential to contribute additional runoff, which may create other impacts such as flooding, erosion and increased demand on the existing storm drain system, the project's proposed storm drain system would limit the amount of post-construction runoff to ensure that impacts would be less than significant. The proposed storm drain system would function to recharge groundwater thereby limiting the amount of low volume storm flows and dry weather flows that enter the storm drain system. In addition, runoff water from larger volume storm flows would be pre-treated prior to entering the storm drain system, which would limit the amount of polluted runoff that is ultimately discharged into the Bolsa Chica Wetlands during larger storm events. As such, the project, as designed and with implementation of a WQMP, would not result in substantial increases in the rate and volume of post construction runoff, which would impact the beneficial use of downstream waters. Finally, the proposed storm drain system would serve to protect the adjacent slope from runoff that could cause environmental harm to the slope and sensitive resources below the slope. Less than significant impacts would occur.

Due to the relatively small size of the proposed residential project, the potential to substantially deplete groundwater supplies is minimal. Also, as discussed above, the project's retention/infiltration system would function to recharge the groundwater supply. Therefore, impacts to groundwater would be less than significant.

The project's design as well as required SWPPP, WQMP and hydrology and hydraulic studies, to be submitted in accordance with City of Huntington Beach standard development requirements, will identify project design features and BMPs for ensuring no significant impacts associated with polluted runoff and erosion would occur. In addition, the project design and drainage system would function to treat water, which would then recharge the groundwater supply (for dry weather and "first flush" flows) or discharge into downstream waters (larger volume storm flows). As such, impacts to water quality would be less than significant.

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V. AIR QUALITY. The city has identified the significance criteria established by the applicable air quality management district as appropriate to make the following determinations. Would the project:

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| a) Violate any air quality standard or contribute substantially to an existing or projected air quality violation? (Sources:1,9,16)
Discussion: See discussion under e. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b) Expose sensitive receptors to substantial pollutant concentrations? (Sources: 1,9,16)
Discussion: See discussion under e. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c) Create objectionable odors affecting a substantial number of people? (Sources: 1,9,16)
Discussion: See discussion under e. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d) Conflict with or obstruct implementation of the applicable air quality plan? (Sources: 1,9,16)
Discussion: See discussion under e. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| e) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)? (Sources: 1,9,16) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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	Unless Mitigation Incorporated	Unless Mitigation Incorporated	Unless Mitigation Incorporated	Unless Mitigation Incorporated
			Less Than Significant Impact	No Impact

Discussion a – e: The proposed project consists of the subdivision of an approximately 5-acre parcel for the development of 22-single-family homes and associated site improvements. The City of Huntington Beach is located within the South Coast Air Basin, which is regulated by the South Coast Air Quality Management District (SCAQMD). The entire Basin is designated as a national-level nonattainment area for Ozone, Carbon Monoxide (CO), respirable particulate matter (PM₁₀) and fine particulate matter (PM_{2.5}). The Basin is also a State-level nonattainment area for Ozone, PM₁₀ and PM_{2.5}. Sensitive receptors in the area include residents in nearby developments to the north and west. The proposed zoning text amendment will not have any impacts on air quality.

Impacts from objectionable odors could potentially occur during construction of the project. However, impacts would be intermittent and short-term and would not persist once construction was completed. Residential uses in general are not sources of objectionable odors. Potential odors would be limited to typical household wastes, which are stored in refuse containers and picked up on a weekly basis. As such, impacts from odors would be less than significant.

The 2007 Air Quality Management Plan (AQMP) is the region’s applicable air quality plan and was prepared to accommodate growth, to reduce the high levels of pollutants within the areas under jurisdiction of the SCAQMD, to return clean air to the region, and minimize the impact on the economy. Projects that are considered to be consistent with the General Plan are considered to be consistent with the AQMP. Although the proposed project is proposing a general plan amendment to change the land use designation, the growth in population size and number of housing units as a result of the project is consistent with the growth accounted for in the General Plan (refer to discussion under Section II. Population and Housing). Therefore, the proposed project would not conflict with the AQMP and impacts would be less than significant.

Short-term: The construction of the project may result in short-term air pollutant emissions from the following activities: the commute of workers to and from the project site; minimal grading activities, delivery and hauling of construction materials and supplies to and from the project site; fuel combustion by on-site construction equipment; and dust generating activities from soil disturbance. Emissions during construction were calculated using URBEMIS2007 program (version 9.2.4). The allotment of equipment to be utilized during each phase was based on defaults in the URBEMIS2007 program and was modified as needed to represent the specifics of the proposed project.

The URBEMIS model calculates total emissions, on-site and offsite, resulting from each construction activity which are compared to the SCAQMD Regional Thresholds. A comparison of the project’s total emission with the regional thresholds is provided below. A project with daily construction emission rates below these thresholds is considered to have a less than significant effect on regional air quality.

SCAQMD Regional Pollutant Emission Thresholds of Significance						
	Regional Significance Threshold (Lbs/day)					
	CO	VOC	NOx	PM ₁₀	PM _{2.5}	SO ₂
Estimated Construction Emissions for proposed project	14.90	21.72	25.05	26.26	6.37	0.01
Significance Threshold	550	75	100	150	55	150
Exceed Threshold?	NO	NO	NO	NO	NO	NO

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Based on the aforementioned table construction of the project would not exceed the regional emissions thresholds nor would it expose sensitive receptors to substantial pollutant concentrations. Therefore, a less than significant impact is anticipated.

Long-term: Post-construction emissions were also calculated using the URBEMIS2007 program version (9.4.2). The program was set to calculate emissions for the proposed 22-unit single-family development. The default URBEMIS2007 variables were used for the calculations.

SCAQMD Regional Pollutant Emission Thresholds of Significance						
	Regional Significance Threshold (Lbs/day)					
	CO	VOC	NO _x	PM ₁₀	PM _{2.5}	SO ₂
Estimated project Emissions for proposed project	19.94	2.93	2.21	3.45	0.67	0.02
Significance Threshold	550	75	55	150	55	150
Exceed Threshold?	NO	NO	NO	NO	NO	NO

Based on the aforementioned table post-construction emissions from the proposed project would not exceed the regional thresholds nor would it expose sensitive receptors to substantial pollutant concentrations. Therefore, a less than significant impact is anticipated.

In addition, the project does not come close to exceeding established thresholds for any pollutant including the identified nonattainment pollutants (Ozone, CO, PM₁₀ and PM_{2.5}) and ozone precursors (NO_x and VOC) both for construction and post-construction and therefore, would not contribute a cumulatively considerable increase in these pollutants.

Greenhouse Gases

AB 32 codifies the state’s goal to reduce its global warming by requiring that the state’s greenhouse gas (GHG) emissions be reduced to 1990 levels by 2020. This reduction will be accomplished through an enforceable statewide cap on greenhouse gas emissions that will be phased in starting in 2012. In order to effectively implement the cap, AB 32 directs the California Air Resources Board (CARB) to develop appropriate regulations and establish a mandatory reporting system to track and monitor greenhouse gas emissions levels. In addition, the State Office of Planning and Research (OPR) has until January 1, 2010 to adopt CEQA guidelines for evaluation of greenhouses gases. A draft of the proposed amendments to the CEQA guidelines was released in April 2009 and states that a local agency must develop its own significance criteria based on local conditions, data and guidance from other sources.

The proposed project would result in a total of approximately 350.75 tons of CO₂ emissions during construction. Post-construction CO₂ emissions would be approximately 447.57 tons/year. Therefore, the project would produce GHG emissions. Other GHG emissions could result from increases in electricity and natural gas usage and solid waste production, all of which would occur with the proposed project. Although, the amount of post-construction GHG emissions from the project (447.57 tons/yr) represents a negligible percentage of the overall state of California GHG emissions (484,400,000 tons/yr - 2004), since there are no thresholds of significance established yet, any contribution of GHG emissions can be considered significant.

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The proposed project would be the City’s first “green” residential project and as such, incorporates design features that promote energy efficiency and a reduction in GHG emissions, both directly and indirectly. For instance, the project is proposing to utilize Energy Star-rated products in all of the units, a storm drain system designed to capture low-volume flows and allow them to percolate into the ground thereby reducing the amount of water that enters the storm drain system, drought tolerant landscaping, solar roof panels and pervious surfaces for driveways and portions of the street. In addition, the project is required to comply with all applicable City codes and requirements pertaining to energy efficiency and water use efficiency as well as applicable requirements for construction equipment that would limit truck and equipment idling times, exhaust and dust. The identified project design features and applicable requirements are consistent with the GHG reduction strategies recommended by the California Climate Action Team (CCAT), the California Air Pollution Control Officers Association (CAPCOA) and the California Attorney General’s office. Therefore, due to the project’s small contribution to GHG emissions in addition to project design features that would reduce GHG emissions, impacts would be less than significant.

VI. TRANSPORTATION/TRAFFIC. Would the project:

- a) Cause an increase in traffic which is substantial in relation to the existing traffic load and capacity of the street system (e.g., result in a substantial increase in either the number of vehicle trips, the volume to capacity ratio on roads, or congestion at intersections)? (Sources:1,11,18)
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Discussion: See discussion under g.

- b) Exceed, either individually or cumulatively, a level of service standard established by the county congestion management agency for designated roads or highways? (Sources: 1,11,18)
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Discussion: See discussion under g.

- c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks? (Sources: 1,11,18)
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Discussion: See discussion under g.

- d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses? (Sources: 1,11,18)
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Discussion: See discussion under g.

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e) Result in inadequate emergency access? (Sources: 1,11,18)

Discussion: See discussion under g.

f) Result in inadequate parking capacity? (Sources: 1,11,18)

Discussion: See discussion under g.

g) Conflict with adopted policies supporting alternative transportation (e.g., bus turnouts, bicycle racks)? (Sources: 1,11,18)

Discussion a –g: The proposed project is a 22-unit single-family subdivision with associated site improvements. The proposed street configuration is a typical single-family residential street with on-street parking and one travel lane in each direction. The surface for the on-street parking is proposed to have permeable pavers and the street surface would consist of concrete pavers. Existing intersections near the project site include Bolsa Chica Street and Warner Avenue, Warner Avenue and Algonquin Street and Pacific Coast Highway and Warner Avenue. According to the Department of Public Works – Transportation Division, the intersection of Warner Avenue and Pacific Coast Highway is currently experiencing capacity issues. A draft General Plan Circulation Element Update indicates that future intersection capacity improvements will be needed at this intersection. The intersections at Bolsa Chica Street and Warner Avenue and Warner Avenue and Algonquin Street are both operating at acceptable levels based on City standard criteria.

The proposed development will generate an average 264 new daily vehicle trips, of which 17 will occur in the AM peak hour and 22 in the PM peak hour. The intersections of Bolsa Chica Street and Warner Avenue and Algonquin Street and Warner Avenue were evaluated for traffic impacts. The results of the evaluation are summarized in the following tables:

Existing Intersection Capacity Utilization (ICU) and Level of Service (LOS)

Intersection	AM Peak Hour– ICU	LOS	PM Peak Hour– ICU	LOS
Warner/Bolsa Chica	0.73	C	0.71	C
Warner/Algonquin	0.48	A	0.56	A

Project Intersection Capacity Utilization (ICU) and LOS

Intersection	AM Peak Hour– ICU	LOS	PM Peak Hour– ICU	LOS
Warner/Bolsa Chica	0.73	C	0.71	C
Warner/Algonquin	0.48	A	0.56	A

No changes in existing intersection capacity utilization (ICU) or level of service (LOS) would occur at either of

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the intersections with the proposed project. The intersection of Warner Avenue and Pacific Coast Highway is a Caltrans intersection and was not evaluated using City of Huntington Beach criteria. However, given that the two closest signalized intersections would not result in changes to existing intersection operations, similarly, it is expected that no changes in LOS or ICU from the project would occur at the intersection of Warner Avenue and Pacific Coast Highway. Less than significant impacts would occur.

Construction related traffic may have an impact on existing parking, vehicle circulation, and pedestrians by construction vehicles along side, entering, or exiting the project site. Specifically, grading of the site would require approximately 464 truck trips to import the required amount of fill soil for the project. These trips would occur during the grading phase which would be approximately 20 days. As a result, vehicle delays may result along Bolsa Chica Street adjacent to the project site. However, impacts would be temporary and would not impact a large number of surrounding residential uses since the project site is located at the terminus of Los Patos Avenue and near the terminus of Bolsa Chica Street. These potential impacts would be reduced through implementation of code requirements requiring Department of Public Works approval of a construction traffic control plan.

The project is proposing to provide a two- or three-car garage for each dwelling unit in accordance with the provisions of Chapter 231 – Off-Street Parking and Loading of the HBZSO. Of the 22 units, 10 are proposing to provide a required three-car garage with a tandem configuration for two of the spaces. For these 10 units, three open spaces are required, in which one of the required open spaces is proposed to be met through the available street parking. The total number of parking spaces required for the project is provided within the development site in addition to 13 additional on-street parking spaces. As such, the proposed project will not result in significant impacts due to inadequate parking capacity.

The proposed text amendment to the HBZSO would not result in inadequate parking capacity for future PUD developments since the changes do not allow reductions in the overall number of required parking spaces that would be required for a project. In addition, any alternative parking configuration proposed in a future PUD project would be analyzed as part of the development review process for that particular subdivision and any other required entitlements. Less than significant impacts would occur.

The proposed site access and street configuration does not propose privacy gates, sharp curves or dangerous intersections and is designed to comply with City standards. In addition, the project has been reviewed by the Huntington Beach Fire Department for adequate access and is required to comply with City Specification 401, *Minimum Standards for Fire Apparatus Access*. As such, the project would not result in inadequate emergency access. The project does not require bicycle racks since it is a single-family development and would not conflict with policies supporting alternative transportation. Less than significant impacts would occur.

VII. BIOLOGICAL RESOURCES. Would the project:

- a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service? (Sources:1,18)

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Discussion: See discussion under item f.

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- b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game or US Fish and Wildlife Service? (Sources: 1,18)

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Discussion: See discussion under item f.

- c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means? (Sources: 1,18)

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Discussion: See discussion under item f.

- d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites? (Sources: 1,18)

<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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Discussion: See discussion under item f.

- e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? (Sources: 1,18)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Discussion: See discussion under item f.

- f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan? (Sources: 1,18)

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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Discussion a – f: The approximately five acre project site is currently undeveloped except for a portion of the property that is used for construction headquarters for the adjacent Brightwater development, which is under construction. Historically, the site has been used periodically for agricultural purposes but has never been developed. There are no trees or sensitive vegetation existing on the site that would provide habitat for sensitive species or serve in part as a migratory corridor for wildlife or avian species. Sensitive biological resources occur and have the potential to occur on adjacent properties to the east and south. However, the proposed project would not impact any sensitive biological resource on adjacent properties. A designated

ISSUES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Mitigation Incorporated	Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
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wetlands area is located approximately 200 feet east of the subject property at the closest point. The subject property is entirely outside of the required buffer area for the adjacent wetlands designation. To the east of the proposed project on the Shea property is a stand of eucalyptus trees that have been determined by the California Coastal Commission to be an environmentally sensitive habitat area (ESHA) because of their value to raptors for nesting and perching. As part of the approval of a Land Use Plan for the Shea property in 2008, the Coastal Commission required that 23 acres surrounding the ESHA be designated as buffer/open space to maintain foraging habitat for raptors and to protect against any significant disruption of habitat values. The 23 acres includes the land between the proposed project and the eucalyptus trees, as shown on the proposed tentative tract map for the project (Refer to Attachment 2). The property boundary for the proposed project is approximately 140 feet from the closest point of the ESHA. The closest residential lot is 160 feet from the ESHA and the farthest is approximately 250 feet. In addition, there is a significant topographic separation between the proposed project and the eucalyptus trees. The pad elevations at the eastern edge of the proposed project are at elevation 49 and the eucalyptus trees are at elevation five. The height of the ESHA is approximately 40 feet on average so the tops of the trees are approximately at the proposed pad elevation. Given the 23 acres that have been designated as open space for raptor foraging habitat on the Shea property and the distance of the proposed residential lots from the ESHA coupled with the topographical separation, the impacts to the ESHA are less than significant. The proposed project does not conflict with any adopted Habitat Conservation Plan or Natural Community Conservation Plan as no such plan exists for the City of Huntington Beach. Less than significant impacts would occur. The proposed zoning text amendment will not have any impacts on biological resources.

VIII. MINERAL RESOURCES. Would the project:

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| a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? (Sources:1)
Discussion: See discussion under item b. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan? (Sources:1) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Discussion a & b: Although Huntington Beach has been the site of oil and gas extraction since the 1920s, oil production has decreased over the years, and today, oil producing wells are scattered throughout the City. The subject site has historically been used for agricultural purposes and as such, would not result in the loss of a known mineral resource or recovery site. No impacts would occur. The proposed zoning text amendment will not have any impacts on mineral resources.

IX. HAZARDS AND HAZARDOUS MATERIALS.

Would the project:

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| a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials? (Sources:1,3,18) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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ISSUES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
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Discussion: See discussion under b.

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| b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? (Sources: 1,3,18) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Discussion a & b: The proposed project involves the subdivision of an approximately 5-acre site for the construction of 22 single-family dwellings and associated improvements. The site was historically used for agricultural purposes and, as such, may contain traces of pesticides in the soil. The site is currently undeveloped, except for a portion of the site that is used for temporary construction headquarters for the adjacent Brightwater development. The proposed residential units do not represent uses that involve the routine use or transport of hazardous materials beyond typical household wastes and cleaning products.

To the extent possible, on-site soils will be used for grading, however, all fill soil (on-site and imported) shall meet City Specification #431-92 – Soil Cleanup Standards and would be submitted to the Fire Department for review and joint approval with the Public Works Department prior to issuance of a grading permit. Discovery of additional soil contamination during ground disturbing activities is required to be reported to the Fire Department immediately and the approved work plan modified accordingly in compliance with City Specification #431-92. Less than significant impacts would occur. The proposed zoning text amendment will not have any impacts on hazards and hazardous materials.

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| c) Emit hazardous emissions or handle hazardous or acutely hazardous material, substances, or waste within one-quarter mile of an existing or proposed school? (Sources: 1,3,18) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Discussion: The proposed project involves the subdivision of an approximately 5-acre site for the construction of 22 single-family dwellings and associated improvements. The nearest school, Marine View Middle School, is located approximately ½ mile from the project site. The proposed residential units do not represent uses that involve the routine use or transport of hazardous materials beyond typical household wastes and cleaning products. Less than significant impacts would occur.

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| d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? (Sources:1,3,13,18) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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Discussion: The proposed project involves the subdivision of an approximately 5-acre site for the construction of 22 single-family dwellings and associated improvements. The project site is not listed on any list of hazardous sites. As such, no impacts would occur.

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| e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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ISSUES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
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miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area? (Sources: 1,3,18)
Discussion: See discussion under f.

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| f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area? (Sources: 1,3,18) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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Discussion e & f: The proposed project involves the subdivision of an approximately 5-acre site for the construction of 22 single-family dwellings and associated improvements. The City is located within the Airport Environs Land Use Plan for the Joint Forces Training Base Los Alamitos, but is not located within two miles of a public or private airport. However, given the nature and size of the proposed project, no impacts would occur.

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| g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? (Sources:1,3,18) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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Discussion: The proposed project involves the subdivision of an approximately 5-acre site for the construction of 22 single-family dwellings and associated improvements. The site was historically used for agricultural purposes and is currently undeveloped, except for a portion of the site that is used for temporary construction headquarters for the adjacent Brightwater development. The project site does not serve any role in the implementation of an emergency response plan nor would the proposed project impair an emergency evacuation plan. No impacts would occur.

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| h) Expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands? (Sources: 1,3,18) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Discussion: The proposed project involves the subdivision of an approximately 5-acre site for the construction of 22 single-family dwellings and associated improvements. The site was historically used for agricultural purposes and is currently undeveloped, except for a portion of the site that is used for temporary construction headquarters for the adjacent Brightwater development. The site is also disced twice a year for fire protection. The project site and surrounding properties are not considered wildlands and are not located within a Very High Fire Hazard Severity Zone as mapped by the State Department of Forestry and Fire Protection. Less than significant impacts would occur.

X. NOISE. Would the project result in:

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| a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? (Sources:1,15) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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ISSUES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
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Discussion: See discussion under item d.

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| b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels? (Sources: 1,15) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Discussion: See discussion under item d.

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| c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project? (Sources: 1,15) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Discussion: See discussion under item d.

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| d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project? (Sources: 1,15) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Discussion a – d: The proposed project involves the subdivision of an approximately 5-acre site for the construction of 22 single-family dwellings and associated improvements. The project site is located at the southeast corner of Bolsa Chica Street and Los Patos Avenue. The project site was historically used for agricultural purposes and is currently undeveloped, except for a portion of the site that is used for temporary construction headquarters for the adjacent Brightwater development. Surrounding land uses include multi-family residential to the north and northwest and single-family residential to the west. Properties to the south and east are undeveloped, although single-family residential and open space/conservation uses are approved for property east of the project site. Existing sources of noise and groundborne vibration in the area include motor vehicle traffic on the surrounding roads as well as construction noise from the adjacent Brightwater development. Applicable City regulations include the General Plan Noise Element, which identifies goals, policies and objectives to ensure that new development does not create an unacceptable noise environment through siting, design and land use compatibility, and the City’s Noise Ordinance, which regulates noise produced by uses, equipment, construction and people. The proposed zoning text amendment will not have any impacts on noise.

The project will generate short-term noise impacts during construction, including noise generated by earth-moving equipment, haul trucks and power tools. However, the project will be subject to compliance with Chapter 8.40 – Noise, of the Huntington Beach Municipal Code which restricts all construction activities to the hours between 7:00 AM and 8:00 PM Monday - Saturday. Construction activities are prohibited Sundays and Federal holidays. In addition, the project applicant is proposing to utilize noise mufflers on all heavy construction equipment. Accordingly, construction related noise impacts would be less than significant. Noise generated by the proposed residential uses would not be significantly different than existing conditions in the area and would likely generate less noise than the multi-family residential uses to the north and northwest. As such, the proposed project will not result in exposure of persons to excessive temporary or permanent noise levels or groundborne vibration exceeding existing levels or as established by the General Plan Noise Element and the City’s Noise Ordinance. Less than significant impacts would occur.

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| e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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ISSUES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
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miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? (Sources: 1,15)

Discussion: See discussion under item f.

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| f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels? (Sources: 1,15) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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Discussion e & f: The proposed project involves the subdivision of an approximately 5-acre site for the construction of 22 single-family dwellings and associated improvements. The project site is located at the southeast corner of Bolsa Chica Street and Los Patos Avenue. The site is located within the Airport Environs Land Use Plan for the Joint Forces Training Base Los Alamitos, but is not located within two miles of a public or private airport. Less than significant impacts would occur.

XI. PUBLIC SERVICES. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:

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|-------------------------------------------------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|
| a) Fire protection? (Sources:1)
Discussion: See discussion under item e. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b) Police Protection? (Sources:1)
Discussion: See discussion under item e. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c) Schools? (Sources:1)
Discussion: See discussion under item e. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d) Parks? (Sources:1,2)
Discussion: See discussion under item e. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| e) Other public facilities or governmental services? (Sources:1,2) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion a – e: The proposed project involves the subdivision of an approximately 5-acre site for the construction of 22 single-family dwellings and associated improvements. The proposed residential development is proposing to provide a 5,776 square foot open space area. The project site is currently undeveloped, except for a portion of the site that is used for temporary construction headquarters for the adjacent Brightwater development. The nearest police station is the Harbour Substation, located approximately half a mile from the project site at 16889 Algonquin Street. The nearest Fire Station is Station No. 7 located at 3831 Warner Avenue at the intersection of Warner Avenue and Pacific Coast Highway. The

ISSUES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
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project site is located within the Ocean View School District (grades K-8) and the Huntington Beach Union High School District. Five City parks, Bolsa Chica State Beach and the Bolsa Chica Ecological Reserve are all located within one mile of the project site. The proposed zoning text amendment will not have any impacts on public resources.

The Fire and Police departments have reviewed the proposed development and have not indicated that the project would impact acceptable service levels. The Community Services Department has reviewed the request to amend the General Plan land use designation from Open Space – Parks to Low Density Residential and has determined that impacts to parks would be less than significant due to the proximity of other parks within the area of the project site as well as the relatively small number of units proposed. In addition, although the project is proposing to amend the general plan and zoning land use designations, the increase in population and housing is within the allowable growth considered in the General Plan. Although the proposed project would not create a substantial increase in demand for public services, the project would be required to pay park (in accordance with Ch. 254 of the HBZSO), school and library fees to offset any additional increase in demand for services. Less than significant impacts would occur.

XII. UTILITIES AND SERVICE SYSTEMS. Would the project:

- a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board? (Sources:1,3)

Discussion: See discussion under item b.

- b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects? (Sources:1,3)

Discussion a & b: The proposed project involves the subdivision of a 5-acre parcel for the construction of a 22-unit single-family planned unit development and associated improvements including a 5,776 square foot open space area. The proposed zoning text amendment will not have any impacts on utilities and service systems. The project will take access from Bolsa Chica Street, which was extended in 2006 for the Brightwater development. When the extension of Bolsa Chica Street was constructed in 2006, sewer, domestic water and storm drain improvements were constructed in the street for the Brightwater development. Those existing sewer, water and storm drain lines are readily available in Bolsa Chica Street and have adequate capacity to serve the proposed project. The Orange County Sanitation District (OCSD) provides regional wastewater collection, treatment and disposal services for the City of Huntington Beach. Based on current OCSD flow factors, the proposed project would generate approximately 1,488 gallons of wastewater per day per acre.

All connections to existing wastewater infrastructure will be designed and constructed in accordance with the requirements and standards of the City of Huntington Beach and the OCSD. Compliance with applicable Waste Discharge Requirements, as monitored and enforced by the OCSD, would ensure that the proposed project would not exceed applicable wastewater treatment requirements of the Santa Ana Regional Water Quality Control Board (SARWQCB) with respect to discharges to the sewer system. Less than significant

ISSUES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
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impacts would occur.

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| c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects? (Sources:1,3,4) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Discussion: As discussed in Section IV. Hydrology and Water Quality, the project is proposing a storm drain system that would divert the “first flush” storm water runoff and dry weather nuisance flows to the proposed open space area where it will be infiltrated into the ground through a corrugated metal pipe retention system. Surface runoff will flow to catch basins connected to the CDS unit, which will function to remove debris, sediment, oil and grease from the street runoff prior to infiltration into the ground. In addition, porous pavers proposed in the driveways and on-street parking areas will intercept nuisance flows and “first flush” stormwater runoff and pre-treat the runoff prior to retention and infiltration. In addition to capturing runoff, the proposed drainage system would also facilitate water quality enhancement through removal of dissolved nutrients, bacteria and sediment through the soil’s natural filtering ability as well as act as a groundwater recharge system. This system would be constructed with the project and would not create additional construction impacts beyond those already being considered with the project. Less than significant impacts would occur.

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| d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed? (Sources:1,3) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Discussion: The Public Works Department has reviewed the project plans and did not identify any concerns regarding impacts to water supplies due to the relatively small number of units. The project would not result in an increase in water consumption such that it would present a significant impact to water supplies. In addition, the project is subject to compliance with the City's Water Ordinance, including the Water Efficient Landscape Requirements, as well as Title 24 conservation measures such as low flow fixtures, which ensure water consumption is minimized. In addition, the project is proposing the homes to be Energy-star rated, which maximizes appliance efficiency. The water demand for the proposed project can be accommodated by the City’s water service capacity and less than significant impacts would occur.

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| e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project’s projected demand in addition to the provider’s existing commitments? (Sources:1,3) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Discussion: See discussion under item a.

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| f) Be served by a landfill with sufficient permitted capacity to accommodate the project’s solid waste disposal needs? (Sources:1,3) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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ISSUES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
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Discussion: See discussion under item g.

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| g) Comply with federal, state, and local statutes and regulations related to solid waste? (Sources:1,3,15) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Discussion f & g: The proposed project involves the subdivision of a 5-acre parcel for the construction of a 22-unit single-family planned unit development and associated improvements including a 5,776 square foot open space area. Solid waste collection service for the City of Huntington Beach is provided by Rainbow Disposal, under an exclusive contract with the City. Collected solid waste is transported to a transfer station where the solid waste is sorted and processed through a Materials Recovery Facility where recyclable materials are removed. The remaining solid waste is transferred to the Orange County landfill system, which has capacity to operate until 2067. Even so, given the size and use of the project, it is not expected to generate a substantial amount of daily waste products in the long term nor as a result of construction. Accordingly, the project is not anticipated to noticeably impact the capacity of existing landfills that will serve the use. The project is subject to compliance with all federal, state, and local statutes and regulations related to solid waste and no exceptions to those standards are proposed. Less than significant impacts would occur.

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| h) Include a new or retrofitted storm water treatment control Best Management Practice (BMP), (e.g. water quality treatment basin, constructed treatment wetlands?) (Sources:1,3,4,15) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Discussion: Refer to item XII. c. above. In addition, a preliminary Water Quality Management Plan (WQMP) for the project identifies Best Management Practices (BMPs) to reduce impacts to water quality. However, the proposed storm drain system and identified BMPs would not create additional environmental impacts as discussed in this section and in Section IV. Hydrology and Water Quality. Less than significant impacts would occur.

XIII. AESTHETICS. Would the project:

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| a) Have a substantial adverse effect on a scenic vista? (Sources:1,18) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Discussion: See discussion under item d.

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| b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway? (Sources:1,18) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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Discussion: See discussion under item d.

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| c) Substantially degrade the existing visual character or quality of the site and its surroundings? (Sources:1,3,18) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
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Discussion: See discussion under item d.

ISSUES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area? (Sources:1,3,18)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Discussion a – d: The project consists of a 22-unit single-family planned unit development and associated improvements on an existing 5-acre lot. The project proposes an architectural design character of an “American Seaside Village” with six coastal architectural styles including: Light Craftsman, Light Victorian, American Traditional, The Hamptons, Laguna Beach Cottage and Florida Seaside. These styles present a quality architectural design utilizing various exterior colors and materials finishes. The project site is located on the Bolsa Chica Mesa and is currently undeveloped, although a portion of the site is currently being used as a construction staging site for the adjacent Brightwater development. The project site is not located along a state scenic highway. There are no historic resources, rock outcroppings or trees on the project site. The Bolsa Chica Mesa and slope is identified as a visual resource in the Coastal Element and existing policies in the Coastal Element call for the preservation of public views to and from the slope.

Construction of the project would permanently alter the existing visual environment of the project site. The undeveloped character of the site would be developed under the proposed project. Views of the project site from the flood control channel east of the project site and Pacific Coast Highway (PCH) further in the distance would be altered. However, views of the project site from the channel and PCH, which are at a lower elevation, can be considered in the context of the overall view of the Bolsa Chica Mesa and slope. Currently, views looking toward the project site consist of the slope, open space and residential uses. Development of the project site would maintain existing views of the slope, in accordance with Coastal Element policies, and would bring residential uses into a closer context, but the overall view from the channel and PCH would essentially remain the same. Therefore, the proposed project would not substantially affect scenic views of the project site from off-site vantage points.

In addition, improvement of an existing undeveloped 30-foot wide City-owned parcel north of the project site would provide public access to an informal path on the adjacent Shea property from Bolsa Chica Street and would also provide public views from the slope edge at the eastern point of the site.

Since the project site is currently undeveloped, the project would introduce a new source of light and glare in the area due to lighting from the residences, car lights and nighttime street lights. However, the project is proposing single-family residential uses in an area that is developed with single- and multi-family uses and light sources from the project would be similar to existing light sources in the area. The proposed lighting plan for the project indicates that all lighting will be shielded to minimize light cast onto adjacent properties. In addition, the project site lighting will include “dark sky” features that were implemented in the adjacent Brightwater residential project and have already been determined to be appropriate for and sensitive to the Bolsa Chica area.

The project is proposing two story homes at approximately 25 to 30 feet in height. Existing residential uses north and west of the project site are two and three stories in height and private views from these residential uses would be impacted by the project. However, neither the General Plan Coastal Element nor the Coastal Act protect private views. Nevertheless, the project site is separated from adjacent multi-family residential properties to the north with a 30-foot wide parcel. The 30-foot wide area would be improved with a 6-foot wide path and a landscape buffer. Distances from the proposed residences to the multi-family residential units to the north would range from 40 – 90 feet. These distances combined with landscaping proposed for the 30-foot wide area would function to buffer aesthetic impacts to existing residential units from development on the

ISSUES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Potentially Significant Less Than Significant Impact	No Impact
----------------------------------------------	--------------------------------------	--------------------------------------------------------------------	------------------------------------------------------------------	-----------

project site. In addition, the project is required to comply with the City’s design guidelines and is subject to review by the Design Review Board to ensure that the project’s design, architecture and landscaping for the project is compatible with and would enhance the area.

In conjunction with other past, present and future projects, the proposed project would incrementally contribute to aesthetic changes in the area and the change from an undeveloped to a developed condition may be viewed by some people as a negative impact. However, aesthetic impacts are somewhat subjective and others may view the development of new homes, landscaping and a 30-foot wide coastal access link as an improvement from the undeveloped condition of the property. The proposed project presents a high quality architectural design with a large amount of landscaping that is compatible with the surrounding uses. In addition, the adjacent slope would be preserved as a significant scenic resource and the project would provide for public views from the project site via the proposed 30-foot wide access path.

The proposed zoning text amendment would provide options for parking in PUD developments that may have an aesthetic impact. For instance, dwelling units that would require a three-car garage may be designed with a tandem configuration such that the garage appears as a two-car garage. Aesthetically, this would be a benefit to projects since the options provide greater design flexibility; front yards could be emphasized and garages would not dominate the street scene in a development. Required parking spaces could be provided in driveways and on the street. This would allow less driveway space to occupy the front yard of a unit, but may also result in more on-street parking spaces being occupied more often. However, any parking configurations proposed under the proposed zoning text amendment would be analyzed for appropriateness as well as aesthetics as individual PUD developments are proposed. Less than significant impacts would occur.

Based on the analysis above, aesthetic impacts from the proposed project would be less than significant.

XIV. CULTURAL RESOURCES. Would the project:

- | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|
| a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?
(Sources:6)
Discussion: See discussion under d. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?
(Sources:6)
Discussion: See discussion under d. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| c) Directly or indirectly destroy a unique paleontological resource or site unique geologic feature? (Sources:6)
Discussion: See discussion under d. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| d) Disturb any human remains, including those interred outside of formal cemeteries? (Sources:6) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

		Potentially Significant		
	Potentially Significant Impact	Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
ISSUES (and Supporting Information Sources):				

Discussion a – d: The proposed project involves the subdivision of an approximately 5-acre site for the construction of 22 single-family dwellings and associated improvements including a 5,776 square foot open space area. The project site was historically used for agricultural purposes and is currently undeveloped, except for a portion of the site that is used for temporary construction headquarters for the adjacent Brightwater development. The proposed zoning text amendment will not have any impacts on cultural resources.

An archeological report was prepared by Scientific Resource Surveys (SRS), Inc. in May 2009 and discusses previous investigations of the archeological site, CA-ORA-86. According to the report, the project site contained remnants of CA-ORA-86, which has been the subject of 33 separate archeological investigations, including nine surveys, five site form recordations, five surface collections, five excavation programs, one grading monitoring program, two site inspections, one research design and nine evaluations of the site for significance. CA-ORA-86 has been modified in size and shape through time and is frequently combined with CA-ORA-144 “The Water Tower Site” and CA-ORA-83 “The Cogged Stone Site”, although it is recorded as a distinct site. The site was first formally mapped in 1961 along the slope edge east of Bolsa Chica Street on the subject site and extending northeast where residential development is now located. CA-ORA-86 was first formally recorded in 1964 and showed essentially the same boundaries as the 1961 map. Since the site was first recorded, it has been disturbed through agricultural activities, a soils enhancement program in which peat deposits were mixed into the sediments, and residential construction in the northern portion of the site (north of Los Patos). In the 1960s and 1970s, several investigations were conducted west of Bolsa Chica Road to verify that the site boundaries were confined to the slope edge east of Bolsa Chica Street. However, investigations in the 1980s and early 1990s re-recorded the site and extended the boundaries west of Bolsa Chica Street and east of the slope edge down into the lowlands. Subsequent archeological investigations in 1999 showed that the property west of Bolsa Chica Street (now the Sandover residential development) did not contain intact deposits of CA-ORA-86.

In 2001, CA-ORA-86 was investigated and the entire project site was subjected to a multistaged program that included a surface survey, surface artifact collection, a systematic auger program, backhoe trenching and hand excavations. One small deposit was found in the southeast corner of the property on the slope edge. Geophysical investigations revealed an oval depression at the deposit site that was identified as the subterranean remains of a single structure. The subsurface remains of the structure were completely removed by hand excavation, which recovered the entire small deposit. No other intact deposits of CA-ORA-86 were found on the project site.

Because the project site was previously investigated for presence of archeological site CA-ORA-86, it is not anticipated that significant deposits will be discovered during construction of the project. However, the following mitigation measures shall be implemented in the event that unanticipated resources are encountered during grading and construction:

CR-1: *The Applicant shall arrange for a qualified professional archaeological monitor to be present during all project-related ground-disturbing activities. The Applicant shall also arrange for a qualified Native American monitor or a rotation of monitors from the interested bands to be present during all project-related ground-disturbing construction activities. In addition, all construction personnel shall be informed of the need to stop work on the project site in the event of a potential find, until a qualified archaeologist has been provided the opportunity to assess the significance of the find and implement appropriate measures to protect or scientifically remove the find. Construction personnel shall also be informed that unauthorized collection of cultural resources is prohibited. If archaeological resources are discovered during ground-disturbing activities, all construction activities within 50 feet of the find shall cease until the archaeologist evaluates the significance of the resource.*

ISSUES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Potentially Significant Less Than Significant Impact	No Impact
----------------------------------------------	--------------------------------	--------------------------------------------------------	------------------------------------------------------	-----------

In the absence of a determination, all archaeological resources shall be considered significant. If the resource is determined to be significant, the archaeologist shall prepare a research design and recovery plan for the resources.

CR-2: If human remains are discovered during construction or any earth-moving activities, no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the human remains are determined to be prehistoric, the Coroner must notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendent (MLD). The MLD shall complete the inspection of the site and may recommend scientific removal and nondestructive analysis of human remains and items associated with Native American burials.

With implementation of mitigation measures CR-1 and CR-2, potential impacts to cultural resources would be less than significant.

XV. RECREATION. Would the project:

- | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|
| a) Would the project increase the use of existing neighborhood, community and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated? (Sources:1)
Discussion: See discussion under c. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment? (Sources:1,18)
Discussion: See discussion under c. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c) Affect existing recreational opportunities? (Sources:1) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion a – c: The project consists of the development of 22 single-family homes and associated site improvements including a 5,776 square foot (0.13 acres) open space area that would primarily serve the development. The project does have the potential to increase usage of recreational facilities in the City due to the introduction of new housing and potentially new residents to the area. The established standard for parks per the City’s General Plan is five acres for every 1,000 residents. The proposed development would require 0.29 acres of parkland to meet the established standard for the project. The project is required to pay park fees and/or provide dedication of land in accordance with Chapter 254 of the HBZSO. The proposed zoning text amendment will not have any impacts on recreation.

The project, as part of its public benefit, is proposing to improve an existing 30-foot wide parcel located immediately north of the project site, with a landscaped trail that would provide access from Bolsa Chica Street to an existing informal path on the adjacent Shea property, which ultimately connects to the wetlands. In this respect, the project would further recreational opportunities in the Bolsa Chica area.

The project site has an existing General Plan Land Use designation of Open Space – Parks (OS-P), which is

ISSUES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Potentially Significant Less Than Significant Impact	No Impact
----------------------------------------------	--------------------------------------	--------------------------------------------------------------------	------------------------------------------------------------------	-----------

proposed to be amended to RL (Residential Low Density). However, the site is not developed with a park or recreational facility and is not listed on the City’s inventory of parks. The site is privately owned and, according to the Community Services Department, no such facilities are planned for the project site. In addition, the Community Services Department has reviewed the proposed General Plan Amendment and, due to the small size of the project and the proximity of four parks within a half-mile of the project site, has indicated that the proposed change in land use designation would not present a significant impact in terms of existing or planned parks and recreational facilities. Therefore, the project’s impacts on parks and recreational facilities, including existing recreational opportunities, would be less than significant.

XVI. AGRICULTURE RESOURCES. In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. Would the project:

- | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|
| a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use? (Sources:1,2)
Discussion: See discussion under c. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Conflict with existing zoning for agricultural use, or a Williamson Act contract? (Sources:1,2)
Discussion: See discussion under c. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| c) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use? (Sources:1,2) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Discussion a – c: Much of Huntington Beach was developed with agricultural fields for many years until approximately the late 1950s when the City started to experience tremendous growth. Today, there is little land zoned or used for agricultural purposes. Most of the remaining agriculturally zoned property is limited to the existing Southern California Edison Right-of-Ways, which are generally utilized for commercial nursery operations.

The proposed zoning text amendment will not have any impacts on agricultural resources. The project includes development of a 5-acre site with 22 single-family homes and associated site improvements. The property is currently undeveloped except for a portion in the southwest corner that is used for temporary construction headquarters for the adjacent Brightwater development. Historically, the property has been used intermittently over the years for agricultural purposes, but has ceased agricultural operations for the last five years. The site is not shown on any map of the California Resources Agency as important, unique or prime farmland. The project site is currently zoned Residential Agricultural (RA) and allows agricultural uses, single-family dwellings, nurseries

ISSUES (and Supporting Information Sources):	Potentially Significant Impact	Potentially Significant Unless Mitigation Incorporated	Less Than Significant Impact	No Impact
		Potentially Significant		

and temporary uses such as storage yards. The proposed zoning map amendment to RL (Residential – Low Density) would result in the conversion of land zoned for agricultural uses. However, as mentioned, the site is not currently used for agricultural purposes. According to the HBZSO, the intent of the RA zoning district is to provide a “transition or holding zone” for properties with “current” agricultural uses. Since the property is no longer used for agriculture, the RA zoning designation is no longer the appropriate zoning designation and impacts from the change in zoning designation from RA to RL would be considered less than significant.

XVII. MANDATORY FINDINGS OF SIGNIFICANCE.

- a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory? (Sources:1-19)
-

Discussion: As discussed in Section XIV. Cultural Resources, the project site is within a recorded archeological site. Although, it is not anticipated that intact resources exist at the site, due to previous excavation, mitigation measures have been incorporated to address impacts to cultural resources in the event that intact deposits are encountered during project grading and construction. As discussed throughout this initial study, potential impacts that would degrade the quality of the environment would be less than significant.

- b) Does the project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.) (Sources:1-19)
-

Discussion: As discussed in Sections I to XVI, the project is not anticipated to have significant cumulatively considerable impacts due to the relatively small scale and nature of the project as well as implementation of project design features and standard City codes and policies that would further reduce impacts. Although the project is proposing to amend the General Plan land use designation, the project is consistent with the General Plan in terms of foreseeable growth in the City. It does not represent a significant negative impact to the environment or goals of the City. Less than significant impacts are anticipated.

- c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly? (Sources: 1-19)
-

Discussion: As discussed in Sections I to XVI, all potential impacts that could have environmental effects on humans as a result of the project have been found to be less than significant due to the relatively small scale and nature of the project as well as implementation of project design features and standard City codes as well as other applicable codes and policies. As such, impacts would be less than significant.

XVIII. EARLIER ANALYSIS.

Earlier analyses may be used where, pursuant to tiering, program EIR, or other CEQA process, one or more effects have been adequately analyzed in an earlier EIR or negative declaration. Section 15063 (c)(3)(D).

Earlier Documents Prepared and Utilized in this Analysis:

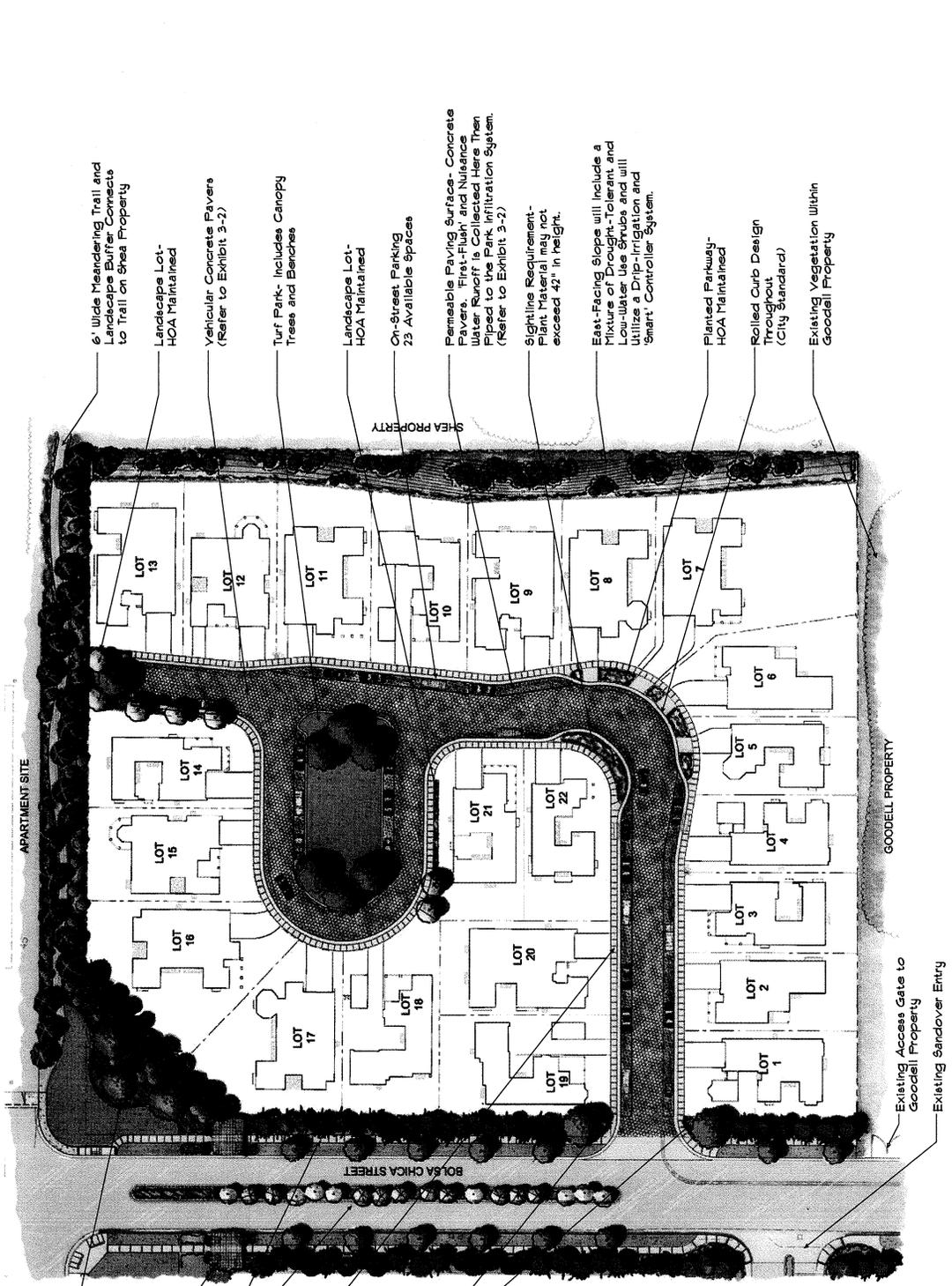
<u>Reference #</u>	<u>Document Title</u>	<u>Available for Review at:</u>
1	City of Huntington Beach General Plan	City of Huntington Beach Planning Dept., Planning/Zoning Information Counter, 3rd Floor 2000 Main St. Huntington Beach
2	City of Huntington Beach Zoning and Subdivision Ordinance	“
3	The Ridge Permit Documentation (March 10, 2009)	“
4	Conceptual Water Quality Management Plan (October 31, 2008)	“
5	Geotechnical Feasibility Study (October 31, 2008)	“
6	Archeological Abstract CA-ORA-86 Scientific Resources Surveys, Inc. (May 2009)	“
7	City of Huntington Beach Geotechnical Inputs Report	“
8	FEMA Flood Insurance Rate Map (February 18, 2004)	“
9	CEQA Air Quality Handbook South Coast Air Quality Management District (1993)	“
10	City of Huntington Beach CEQA Procedure Handbook	“
11	Trip Generation Handbook, 7 th Edition, Institute of Traffic Engineers	“
12	Airport Environs Land Use Plan for Joint Forces Training Base Los Alamitos (Oct. 17, 2002)	“
13	Hazardous Waste and Substances Sites List	“
14	State Seismic Hazard Zones Map	“
15	City of Huntington Beach Municipal Code	“
16	URBEMIS Air Quality Assessment (July 2009)	“

17	Summary of Mitigation Measures	Attachment No. 1
18	Reduced Project Plans (June 2, 2009)	Attachment No. 2
19	Code Requirements Letter (November 25, 2008)	Attachment No. 3
20	Draft proposed Zoning Text Amendment No. 09-008	Attachment No. 4

Attachment No. 1

Summary of Mitigation Measures

<u>Description of Impact</u>	<u>Mitigation Measures</u>
<ul style="list-style-type: none">▪ Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5 ▪ Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5 ▪ Disturb any human remains, including those interred outside of formal cemeteries	<p>CR-1: The Applicant shall arrange for a qualified professional archaeological monitor to be present during all project-related ground-disturbing activities. The Applicant shall also arrange for a qualified Native American monitor or a rotation of monitors from the interested bands to be present during all project-related ground-disturbing construction activities. In addition, all construction personnel shall be informed of the need to stop work on the project site in the event of a potential find, until a qualified archaeologist has been provided the opportunity to assess the significance of the find and implement appropriate measures to protect or scientifically remove the find. Construction personnel shall also be informed that unauthorized collection of cultural resources is prohibited. If archaeological resources are discovered during ground-disturbing activities, all construction activities within 50 feet of the find shall cease until the archaeologist evaluates the significance of the resource. In the absence of a determination, all archaeological resources shall be considered significant. If the resource is determined to be significant, the archaeologist shall prepare a research design and recovery plan for the resources.</p> <p>CR-2: If human remains are discovered during construction or any earth-moving activities, no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the human remains are determined to be prehistoric, the Coroner must notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendent (MLD). The MLD shall complete the inspection of the site and may recommend scientific removal and nondestructive analysis of human remains and items associated with Native American burials.</p>



Existing Bolsa Chica/ Los Patos Corner Landscape

Existing Bolsa Chica Street Monumentation

Existing Bolsa Chica Streetscape and Median Landscaping

Sidewalk

Community Monumentation (Refer to Exhibit 3-3)

6' Wide Meandering Trail and Landscape Buffer Connects to Trail on Shea Property

Landscape Lot- HOA Maintained

Vehicular Concrete Pavement (Refer to Exhibit 3-2)

Turf Park- Includes Canopy Trees and Benches

Landscape Lot- HOA Maintained

On-Street Parking 23 Available Spaces

Permeable Paving Surface- Concrete Pavers, 'First-Flush' and Nuisance Water Runoff is Collected Here Then Piped to the Park Infiltration System. (Refer to Exhibit 3-2)

Sightline Requirement- Plant Material may not exceed 42" in height.

East-Facing Slope will include a Mixture of Drought-Tolerant and Low-Water Use Shrubs and will utilize a Drip-Irrigation and 'Smart' Controller System.

Planted Parkway- HOA Maintained

Rollled Curb Design Throughout (City Standard)

Existing Vegetation Within Goodsell Property

Existing Access Gate to Goodsell Property

Existing sandover Entry

Exhibit 3-1
 Landscape Concept and Features



THE RIDGE
 City of Huntington Beach



ROSSMAN LACON
 2008 1203



HUNTINGTON BEACH FIRE DEPARTMENT PROJECT IMPLEMENTATION CODE REQUIREMENTS

DATE: DECEMBER 1, 2008
PROJECT NAME: HEARTHSIDE HOMES
ENTITLEMENTS: PLANNING APPLICATION NO. 08-046
PROJECT LOCATION: HUNTINGTON BEACH, CA
PLANNER: JENNIFER VILLASENOR, ASSOCIATE PLANNER
TELEPHONE/E-MAIL: (714) 374-6611/ jvillasenor@surfcity-hb.org
PLAN REVIEWER-FIRE: DARIN MARESH, FIRE DEVELOPMENT SPECIALIST
TELEPHONE/E-MAIL: (714) 536-5531/ leadwell@surfcity-hb.org
PROJECT DESCRIPTION: TO PERMIT A SMALL LOT DEVELOPMENT FOR 22 SFR ON 5 ACRES, ACROSS FROM THE SANDOVER AND BRIGHTWATER RESIDENTIAL DEVELOPMENTS.

The following is a list of code requirements deemed applicable to the proposed project based on plans received and dated November 10, 2008. The list is intended to assist the applicant by identifying requirements which must be satisfied during the various stages of project permitting and implementation. A list of conditions of approval adopted by the Planning Commission in conjunction with the requested entitlement(s), if any, will also be provided upon final project approval. If you have any questions regarding these requirements, please contact the Plan Reviewer- Fire: DARIN MARESH, FIRE DEVELOPMENT SPECIALIST.

PRIOR TO DEMOLITION, GRADING, SITE DEVELOPMENT, ISSUANCE OF GRADING PERMITS, BUILDING PERMITS, AND/OR CONSTRUCTION, THE FOLLOWING SHALL BE REQUIRED:

Environmental SOIL SAMPLING SCHEDULES

Imported Soil Plan. All imported soil shall meet *City Specification #431-92, Soil Cleanup Standards*. When required by the Fire Department, off-site soil importation exceeding 50 cubic yards requires an "Imported Soil Plan" to be submitted to the Fire Department for review and joint approval with the Public Works Department prior to soil importation onto the site.

Initial sample schedule:

- 1 sample per 1000 cubic yards of imported fill (prior to import).

ATTACHMENT NO. 3.1

Public Works may also have plan requirements for grading, stockpiling, haul routes, storm water pollution prevention, erosion and/or dust control.

Note: Grading Plans must be approved by the Fire Department prior to issuance of a Public Works grading permit. Standard Fire Department notes are required to be on the plans on oil industry impacted sites. Additional requirements will be necessary for the development of former oilfield property.

Soil testing results must be submitted, and approved by the Fire Department prior to issuance of a building permit. (FD)

SITE DEVELOPMENT

Fire Apparatus Access

Small Lot Development - Fire Access Roads shall be provided and maintained in compliance with City Specification # 401, *Minimum Standards for Fire Apparatus Access*. Driving surface shall be capable of supporting a fire apparatus (75,000 lbs and 12,000 lb point load). Minimum fire access road width for declared small lot development is thirty-six feet (36') wide, curb to curb, with thirteen feet six inches (13' 6") vertical clearance.

NOTE: All buildings or structures within the declared small lot development must be protected with automatic fire sprinklers throughout. For Fire Department approval, reference and demonstrate compliance with City Specification # 401 *Minimum Standards for Fire Apparatus Access* on the plans. (FD)

Fire Lanes, as determined by the Fire Department, shall be posted, marked, and maintained per City Specification #415, *Fire Lanes Signage and Markings on Private, Residential, Commercial and Industrial Properties*. The site plan shall clearly identify all red fire lane curbs, both in location and length of run. The location of fire lane signs shall be depicted. No parking shall be allowed in the designated 24 foot wide fire apparatus access road or supplemental fire access per City Specification # 415. For Fire Department approval, reference and demonstrate compliance with City Specification # 401 *Minimum Standards for Fire Apparatus Access* on the plans. (FD)

Secured Vehicle Entries shall utilize KNOX® activated access switches (Knox switches for automated gates, Knox padlocks for manual gates), and comply with City Specification #403, *Fire Access for Pedestrian or Vehicular Security Gates & Buildings*. Reference compliance in the plan notes. (FD)

Secured Automated Vehicle Entry Gates (Residential) shall utilize a combination "Strobe-Activated Switch" and "Knox Manual Key Switch", and comply with *City Specification # 403, Fire*

ATTACHMENT NO. 3.2

Access for Pedestrian or Vehicular Security Gates & Buildings. Reference compliance with City Specification # 403 Fire Access for Pedestrian or Vehicular Security Gates & Buildings in the plan notes. (FD)

+++++

Fire Hydrants and Water Systems

Fire Hydrants are required. 3 hydrants are required – Please contact use for recommended locations. Hydrants must be portrayed on the site plan. Hydrants shall be installed and in service **before** combustible construction begins. Installation of hydrants and service mains shall meet NFPA 13 and 24, 2002 Edition, Huntington Beach Fire Code Appendix B and C, and City Specification # 407 Fire Hydrant Installation Standards requirements. Maximum allowed velocity of fire flow in supply piping is 12 fps. Plans shall be submitted to Public Works and approved by the Public Works and Fire Departments. For Fire Department approval, portray the fire hydrants and reference compliance with NFPA 13 and 24, 2002 Edition, Huntington Beach Fire Code Appendix B and C, and City Specification #407 Fire Hydrant Installation Standards in the plan notes. (FD)

Fire Suppression Systems

Fire Alarms

Fire Alarm System is required. For Fire Department approval, shop drawings shall be submitted to the Fire Department as separate plans for permits and approval. For Fire Department approval, reference and demonstrate compliance with *UBC 305.9* on the plans. A C-10 electrical contractor, certified in fire alarm systems, must certify the system is operational annually. (FD)

Fire Sprinklers

Small Lot Developments (SFD) - Residential (NFPA 13D) Automatic Fire Sprinklers are required for "Small Lot Developments". NFPA 13D automatic fire sprinkler systems are required per Huntington Beach Fire Code for new residential one and two family dwellings and manufactured homes with a declared Small Lot Development designation.

Separate plans (three sets) shall be submitted to the Fire Department for permits and approval.

Automatic fire sprinkler systems must be maintained operational at all times.

For Fire Department approval, reference that a fire sprinkler system will be installed in compliance with the Huntington Beach Fire Code, NFPA 13, and City Specification # 420 - *Automatic Fire Sprinkler Systems* in the plan notes.

ATTACHMENT NO. 3.3

NOTE: When buildings under construction are more than one (1) story in height and required to have automatic fire sprinklers, the fire sprinkler system shall be installed and operational to protect all floors lower than the floor currently under construction. Fire sprinkler systems for the current floor under construction shall be installed, in-service, inspected and approved prior to beginning construction on the next floor above. **(FD)**

Modification, additions, or deletions to an existing automatic fire sprinkler system or fire alarm system shall require that separate plans (three sets) shall be submitted to the Fire Department for permits and approval. Any extended interruption of the fire sprinkler system operation will require a "fire watch", approved by the Fire Department. Reference compliance with City Specification # 420 - Automatic Fire Sprinkler Systems and NFPA 13 in the plan notes. **(FD)**

Residential (NFPA 13D) Automatic Fire Sprinklers Systems Supply. Residential NFPA 13D fire sprinkler systems supply shall be a minimum of a one inch (1") water meter service, installed per Fire Department, Public Works, and Water Division Standards. Depending on fire sprinkler system demands, larger water service may be required. Separate plans shall be submitted to the Public Works Department for approval and permits, and must be completed prior to issuance of a grading permit. The water service improvements shall be shown on a precise grading plan, prepared by a Licensed Civil Engineer. Contact Huntington Beach Public Works Department (714-536-5431) for water meter requirements. **(FD)**

Fire Sprinkler Underground

On-Site Fire Service Piping (FSP) Application for permit shall be made for on-site Fire Service Piping (FSP), including but not limited to, private fire service mains and underground sprinkler laterals. Maximum allowed velocity of fire flow in supply piping is 12 fps. Additionally, application for permit shall be made for fire protections systems (sprinklers, alarms, chemical, fire pumps, etc.) as applicable.

Permits may be obtained at the City of Huntington Beach Department Fire Department by completing a Fire Permit Form (available at Fire Administration) and submitting such plans and specifications as required by the bureau of fire prevention. A permit constitutes permission to begin work in accordance with approved plans and specifications. The permit fee includes plan checking and inspections by an authorized fire prevention inspector. Development reviews/approvals by the bureau of fire prevention during planning do not constitute approval to perform FSP or fire protection system work, unless otherwise noted. **(FD)**

Connection to the Public Water Supply - Separate plans shall be submitted to the Public Works Department detailing the connection, piping, valves and back-flow prevention assembly (DDCA) for approval and permits. Approval by Public Works and the Fire Department must be completed prior to issuance of a grading permit. The dedicated private fire water service off-site

ATTACHMENT NO. 3.4

improvements shall be shown on a precise grading plan, prepared by a Licensed Civil Engineer.
(FD)

Fire Personnel Access

Main Secured Building Entries shall utilize a KNOX[®] Fire Department Access Key Box, installed and in compliance with City Specification #403, Fire Access for Pedestrian or Vehicular Security Gates & Buildings. Please contact the Huntington Beach Fire Department Administrative Office at (714) 536-5411 for information. Reference compliance with City Specification #403 - KNOX[®] Fire Department Access in the building plan notes. **(FD)**

Addressing and Street Names

Residential (SFD) Address Numbers shall be installed to comply with City Specification #428, Premise Identification. Number sets are required on front of the structure in a contrasting color with the background and shall be a minimum of four inches (4") high with one and one half inch (1/2") brush stroke. For Fire Department approval, reference compliance with City Specification #428, Premise Identification in the plan notes and portray the address location on the building.
(FD)

GIS Mapping Information

- a. **GIS Mapping Information** shall be provided to the Fire Department in compliance with GIS Department CAD Submittal Guideline requirements. Minimum submittals shall include the following:
 - Site plot plan showing the building footprint.
 - Specify the type of use for the building
 - Location of electrical, gas, water, sprinkler system shut-offs.
 - Fire Sprinkler Connections (FDC) if any.
 - Knox Access locations for doors, gates, and vehicle access.
 - Street name and address.

Final site plot plan shall be submitted in the following digital format and shall include the following:

- Submittal media shall be via CD rom to the Fire Department.
- Shall be in accordance with County of Orange Ordinance 3809.
- File format shall be in .shp, AutoCAD, AUTOCAD MAP (latest possible release) drawing file - .DWG (preferred) or Drawing Interchange File - .DXF.

- Data should be in NAD83 State Plane, Zone 6, Feet Lambert Conformal Conic Projection.
- Separate drawing file for each individual sheet.
In compliance with Huntington Beach Standard Sheets, drawing names, pen colors, and layering convention. and conform to *City of Huntington Beach Specification # 409 – Street Naming and Addressing*.

For specific GIS technical requirements, contact the Huntington Beach GIS Department at (714) 536-5574.

For Fire Department approval, reference compliance with *GIS Mapping Information* in the building plan notes. **(FD)**

THE FOLLOWING CONDITIONS SHALL BE MAINTAINED DURING CONSTRUCTION:

- a. Fire/Emergency Access And Site Safety shall be maintained during project construction phases in compliance with HBFC Chapter 14, Fire Safety During Construction And Demolition. **(FD)**
- b. Fire/Emergency Access And Site Safety shall be maintained during project construction phases in compliance with City Specification #426, Fire Safety Requirements for Construction Sites. **(FD)**

OTHER:

- a. Discovery of additional soil contamination or underground pipelines, etc., must be reported to the Fire Department immediately and the approved work plan modified accordingly in compliance with City Specification #431-92 Soil Clean-Up Standards. **(FD)**
- b. Outside City Consultants The Fire Department review of this project and subsequent plans may require the use of City consultants. The Huntington Beach City Council approved fee schedule allows the Fire Department to recover consultant fees from the applicant, developer or other responsible party. **(FD)**

Fire Department City Specifications may be obtained at:

Huntington Beach Fire Department Administrative Office

City Hall 2000 Main Street, 5th floor

Huntington Beach, CA 92648

or through the City's website at www.surfcity-hb.org

If you have any questions, please contact the Fire Prevention Division at (714) 536-5411.

ATTACHMENT NO. 3.6



**HUNTINGTON BEACH
PUBLIC WORKS DEPARTMENT
SUGGESTED CONDITIONS OF APPROVAL**

DATE: DECEMBER 9, 2008
PROJECT NAME: THE RIDGE RESIDENTIAL DEVELOPMENT
ENTITLEMENTS: GPA 08-011, ZMA 08-007, EA 08-016, CUP 08-046, CDP 08-022, TTM 08-125
PLNG APPLICATION NO. 2008-0220
DATE OF PLANS: OCTOBER 31, 2008
PROJECT LOCATION: 17202 BOLSA CHICA ST. APN: 110-016-35 SOUTHEAST4990 "A" STREET, "B" STREET AND "C" STREET (EAST SIDE OF BOLSA CHICA, SOUTH OF LOS PATOS)
PLANNER JENNIFER VILLASENOR, ASSOCIATE PLANNER
TELEPHONE/E-MAIL: 714-374-1661/ JVILLASENOR@SURFCITY-HB.ORG
PLAN REVIEWER: STEVE BOGART, SENIOR CIVIL ENGINEER
TELEPHONE/E-MAIL: 714-374-1692 / DDEBOW@SURFCITY-HB.ORG
PROJECT DESCRIPTION: HEARTHSIDE HOMES HAS SUBMITTED A REQUEST TO AMEND THE ZONING MAP AND GENERAL PLAN LAND USE DESIGNATIONS FROM RESIDENTIAL AGRICULTURAL AND OPEN SPACE-PARKS, RESPECTIVELY TO RESIDENTIAL - LOW DENSITY FOR THE CONSTRUCTION OF A 22 SINGLE-FAMILY RESIDENTIAL PLANNED UNIT DEVELOPMENT (PUD). THE 5 ACRE SITE IS LOCATED ACROSS FROM THE SANDOVER AND BRIGHTWATER RESIDENTIAL DEVELOPMENTS.

THE FOLLOWING CONDITION IS REQUIRED TO BE COMPLETED PRIOR TO ISSUANCE OF A PRECISE GRADING PERMIT:

1. The developer shall design and improve, and "The Ridge" Homeowners Association (HOA) shall maintain the linear open space along the north property line to the City of Huntington Beach design and maintenance standards for landscaped areas. The soil within the linear open space shall be tested and the results shall be acceptable to the City for landscape improvements. If the soil tests reveal unacceptable and/or un-mitigable agricultural soil conditions, the developer shall remove all soil within the linear open space area to a depth of thirty six inches and replace that soil with Class A topsoil that has been tested and approved by an approved testing laboratory and by the City for importation. All materials used for irrigation and planting shall be approved by the City, and all installation shall be reviewed and approved by the City prior to final inspection of the first dwelling unit within the tract.

ATTACHMENT NO. 3.7



HUNTINGTON BEACH PUBLIC WORKS DEPARTMENT

PROJECT IMPLEMENTATION CODE REQUIREMENTS

DATE: DECEMBER 9, 2008

PROJECT NAME: THE RIDGE RESIDENTIAL DEVELOPMENT

ENTITLEMENTS: GPA 08-011, ZMA 08-007, EA 08-016, CUP 08-046, CDP 08-022,
TTM 08-125

PLNG APPLICATION NO. 2008-0220

DATE OF PLANS: OCTOBER 31, 2008

PROJECT LOCATION: 17202 BOLSA CHICA ST. APN: 110-016-35 SOUTHEAST4990 "A"
STREET, "B" STREET AND "C" STREET (EAST SIDE OF BOLSA
CHICA, SOUTH OF LOS PATOS)

PLANNER JENNIFER VILLASENOR, ASSOCIATE PLANNER

TELEPHONE/E-MAIL: 714-374-1661/ JVILLASENOR@SURFCITY-HB.ORG

PLAN REVIEWER: STEVE BOGART, SENIOR CIVIL ENGINEER

TELEPHONE/E-MAIL: 714-374-1692 / DDEBOW@SURFCITY-HB.ORG

PROJECT DESCRIPTION: HEARTHSIDE HOMES HAS SUBMITTED A REQUEST TO AMEND THE
ZONING MAP AND GENERAL PLAN LAND USE DESIGNATIONS
FROM RESIDENTIAL AGRICULTURAL AND OPEN SPACE-PARKS,
RESPECTIVELY TO RESIDENTIAL -LOW DENSITY FOR THE
CONSTRUCTION OF A 22 SINGLE-FAMILY RESIDENTIAL PLANNED
UNIT DEVELOPMENT (PUD). THE 5 ACRE SITE IS LOCATED ACROSS
FROM THE SANDOVER AND BRIGHTWATER RESIDENTIAL
DEVELOPMENTS.

The following is a list of code requirements deemed applicable to the proposed project based on plans as stated above. The items below are to meet the City of Huntington Beach's Municipal Code (HBMC), Zoning and Subdivision Ordinance (ZSO), Department of Public Works Standard Plans (Civil, Water and Landscaping) and the American Public Works Association (APWA) Standards Specifications for Public Works Construction (Green Book), the Orange County Drainage Area management Plan (DAMP), and the City Arboricultural and Landscape Standards and Specifications. The list is intended to assist the applicant by identifying requirements which shall be satisfied during the various stages of project permitting, implementation and construction. If you have any questions regarding these requirements, please contact the Plan Reviewer.

ATTACHMENT NO. 3.8

THE FOLLOWING DEVELOPMENT REQUIREMENTS SHALL BE COMPLETED PRIOR TO DEEMING THE APPLICATION COMPLETE:

1. The developer shall submit detailed geological, sewer, drainage, flood control, soils, traffic and other reports deemed necessary by the City Engineer to permit a complete review of the design and improvements for the subdivision. The developer shall also submit a fiscal impact report prepared by an independent economic analyst, evaluating the projected impacts the development may have on city services. This report shall also include marketing and cost benefit information for the project. (ZSO 252.04)

THE FOLLOWING DEVELOPMENT REQUIREMENTS SHALL BE COMPLETED PRIOR TO RECORDATION OF A FINAL VESTING TRACT MAP UNLESS OTHERWISE STATED:

2. The site plan received and dated October 31, 2008 shall be the conditionally approved layout except for:
 - a. The proposed 4-inch deviated wedge curb shall be replaced with City of Huntington Beach Standard Plan No. 216. Curb height shall be determined pursuant to the approved hydrology and hydraulic study.
 - b. Sewer and Water pipeline design shall be shown in "C" Street.
 - c. Design and specifications for all public facilities including but not limited to on and off-site sewer, water, drainage, roads and other improvements.
3. Final Vesting Tract Map shall be submitted to the City of Huntington Beach Public Works Department for review and approval and shall include a title report to indicate the fee title owner(s) as shown on a title report for the subject properties. The title report shall not be more than six (6) weeks old at the time of submittal of the final Vesting Tract Map.
4. The Final Vesting Tract Map shall be consistent with the approved Vesting Tentative Tract map. (ZSO 253.14)
5. The following dedications to the City of Huntington Beach shall be shown on the Final Vesting Tract Map. (ZSO 230.84A & 253.10K)
 - a. A utility easement, covering the public water and sewer facilities and appurtenances located within "A" Street, "B" Street and "C" Street. The water easement shall be a minimum total width of 10-feet clear (5-feet either side of the water pipeline or appurtenance), unobstructed paved or landscaped surface, pursuant to Water Division standards. Where access is restricted or impacted by structures, walls, curbs, etc., the easement width shall be 20-feet to allow for equipment access and maintenance operations. The sewer easement shall be per Huntington Beach Standard Plan No. 500. The City shall have access to public sewer and water facilities and appurtenances at all times, with access rights in, over, across, upon and through "A" Street, "B" Street and "C" Street for the purpose of maintaining, servicing, cleaning, repairing and replacing the sewer and water system as dedicated to the City.
 - b. An easement over "A" Street, "B" Street and "C" Street for Police and Fire Departments access.
 - c. A pedestrian easement at the entrance of "A" Street and Bolsa Chica Street for north/south pedestrian path of travel.)

ATTACHMENT NO. 3.9