



County of San Diego

# STORMWATER INTAKE FORM FOR DEVELOPMENT PROJECTS

This form must be completed in its entirety and accompany applications for any of the discretionary or ministerial permits and approvals referenced in Sections 67.803(c)(1) and 67.803(c)(2) of the County of San Diego Watershed Protection, Stormwater Management and Discharge Control Ordinance (WPO).

## STEP 1: IDENTIFY RELEVANT PROJECT INFORMATION

Applicant Name: <b>WILLIAM DYKE JR.</b>		Contact Information:
Project Address: <b>222 HIGHLINE TRAIL, CREST</b>	APN(s): <b>509-200-11</b>	Permit Application #: <b>TPM 20899</b>

## STEP 2: DETERMINE PRIORITY DEVELOPMENT PROJECT STATUS

WPO Section 67.802(w) defines the criteria for determining whether your project is considered a Priority Development Project (PDP). If you answer "Yes" to any of the questions below, your project is a PDP subject to review and approval of a Major Stormwater Management Plan (SWMP). If you answer "No" to all of the questions below, your project is subject to review and approval of a Minor SWMP.

1. Residential subdivision of 10 or more dwelling units (Single-family, Multi-family, Condo, or Apartment Complex) ..... Yes  No
2. Commercial development that includes development of land area greater than one (1) acre ..... Yes  No
3. Industrial development greater than one (1) acre ..... Yes  No
4. Automotive repair shop ..... Yes  No
5. Restaurant or restaurant facilities with an area of development of 5,000 square feet or greater ..... Yes  No
6. On a steep hillside (>25% natural slope) AND proposes 5,000 square feet of impervious surface or more, or includes grading of any natural slope >25% <sup>(1)</sup> ..... Yes  No
7. Located within 200 feet of an Environmentally Sensitive Area AND creates 2,500 square feet or more of impervious surface or increases the area of imperviousness of a site to more than 10% of its naturally occurring condition <sup>(1) (2)</sup> ..... Yes  No
8. A parking lot that is 5,000 square feet or greater OR proposes at least 15 new parking stalls ..... Yes  No
9. Streets or roads that create a new paved surface that is 5,000 square feet or greater ..... Yes  No
10. Retail gasoline outlet ..... Yes  No

<sup>(1)</sup> In lieu of a Major SWMP, Ministerial Permit Applications for residential dwellings/additions on an existing legal lot answering "Yes" may be able to utilize the Minor Stormwater Management Plan upon approval of a county official. Please note that upon further analysis, staff may determine that a Major SWMP will be required.

<sup>(2)</sup> A County technician will assist you in determining whether your project is located within 200 feet of an Environmentally Sensitive Area.



**If you answered "Yes" to any of the questions, please complete a Major SWMP for your project.**

Instructions and an example of the form can be downloaded from [http://www.co.san-diego.ca.us/dpw/watersheds/land\\_dev/susmp.html](http://www.co.san-diego.ca.us/dpw/watersheds/land_dev/susmp.html)

**If you answered "NO" to all of the questions above, please complete a Minor SWMP for your project.**

Instructions and an example of the form can be downloaded from <http://www.sdcountry.ca.gov/dplu/docs/LUEG-SW.pdf>

## STEP 3: SIGN AND DATE THE CERTIFICATION

**APPLICANT CERTIFICATION:** I have read and understand that the County of San Diego has adopted minimum requirements for managing urban runoff, including stormwater, from construction and land development activities. I certify that this intake form has been completed to the best of my ability and accurately reflects the project being proposed. I also understand that non-compliance with the County's WPO and Grading Ordinance may result in enforcement by the County, including fines, cease and desist orders, or other actions.

Applicant :

*Frank A. Ferrington*

Date: 9.7.08

**Storm Water Management Plan  
For Priority Projects  
(Major SWMP)**

The Major Stormwater Management Plan (Major SWMP) must be completed in its entirety and accompany applications to the County for a permit or approval associated with certain types of development projects. To determine whether your project is required to submit a Major or Minor SWMP, please reference the County's Stormwater Intake Form for Development Projects.

Project Name: <b>DYKE TPM</b>	
Permit Number (Land Development Projects): <b>TPM 20899</b>	
Work Authorization Number (CIP only):	
Applicant: <b>WILLIAM DYKE JR.</b>	
Applicant's Address: <b>222 HIGHLINE TR., CREST, CA 92021</b>	
Plan Prepare By (Leave blank if same as applicant): <b>FARTINGTON ENGINEERING</b>	
Date: <b>9-7-08</b>	
Revision Date (If applicable):	

The County of San Diego Watershed Protection, Storm Water Management, and Discharge Control Ordinance (WPO) (Ordinance No. 9424) requires all applications for a permit or approval associated with a Land Disturbance Activity to be accompanied by a Storm Water Management Plan (SWMP) (section 67.806.b). The purpose of the SWMP is to describe how the project will minimize the short and long-term impacts on receiving water quality. Projects that meet the criteria for a priority development project are required to prepare a Major SWMP.

Since the SWMP is a living document, revisions may be necessary during various stages of approval by the County. Please provide the approval information requested below.

Project Stages	Does the SWMP need revisions?		If YES, Provide Revision Date
	YES	NO	
	<b>X</b>		

Instructions for a Major SWMP can be downloaded at  
<http://www.sdcounty.ca.gov/dpw/watersheds/susmp/susmp.html>

Completion of the following checklists and attachments will fulfill the requirements of a Major SWMP for the project listed above.

## PROJECT DESCRIPTION

Please provide a brief description of the project in the following box. Please include:

- Project Location
- Project Description
- Physical Features (Topography)
- Surrounding Land Use
- Proposed Project Land Use
- Location of dry weather flows (year-round flows in streams, or creeks) within project limits, if applicable.

THE PROPOSED SUBDIVISION OF LAND REFERRED TO AS TPM 20899 IS LOCATED IN THE COMMUNITY OF CREST IN THE UNINCORPORATED PART OF SAN DIEGO COUNTY. THE APPROXIMATE 8.4 ACRE SIZE LOT CONSISTS OF AN EXISTING DWELLING UNIT. PHYSICAL FEATURES OF THE SITE INCLUDE STEEP SLOPES WITH A DIFFERENTIAL ELEVATION OF APPROXIMATELY 150 FEET SCOPING IN A SOUTHEASTLY DIRECTION. WITHIN THIS 8.4 ACRE SITE ARE ROCK OUTCROPPINGS. SURROUNDING LOTS ARE OF SIMILAR SIZE AND RURAL IN NATURE. THE PROPOSED USE OF THE SITE IS TO BUILD AN ADDITIONAL HOUSE ON THE PROPOSED SECOND PARCEL. NO STREAMS EXIST ON THIS SITE.

## PRIORITY DEVELOPMENT PROJECT DETERMINATION

Please check the box that best describes the project. Does the project meet one of the following criteria?

**Table 1**

PRIORITY DEVELOPMENT PROJECT	YES	NO
Redevelopment that creates or adds at least 5,000 net square feet of additional impervious surface area	X	
Residential development of more than 10 units		X
Commercial developments with a land area for development of greater than 1 acre		X
Heavy industrial development with a land area for development of greater than 1 acre		X
Automotive repair shop(s)		X
Restaurants, where the land area for development is greater than 5,000 square feet		X
Hillside development, in an area with known erosive soil conditions, where there will be grading on any natural slope that is twenty-five percent or greater, if the development creates 5,000 square feet or more of impervious surface	X	
Environmentally Sensitive Areas (ESA): All development located within or directly adjacent to or discharging directly to an ESA (where discharges from the development or redevelopment will enter receiving waters within the ESA), which either creates 2,500 square feet of impervious surface on a proposed project site or increases the area of imperviousness of a proposed project site to 10% or more of its naturally occurring condition. "Directly adjacent" means situated within 200 feet of the ESA. "Discharging directly to" means outflow from a drainage conveyance system that is composed entirely of flows from the subject development or redevelopment site, and not commingled with flows from adjacent lands.		X
Parking Lots 5,000 square feet or more or with 15 parking spaces or more and potentially exposed to urban runoff		X
Streets, roads, highways, and freeways which would create a new paved surface that is 5,000 square feet or greater		X
Retail Gasoline Outlets (RGO) that meet the following criteria: (a) 5,000 square feet or more or (b) a projected Average Daily Traffic (ADT) of 100 or more vehicles per day.		X

**Limited Exclusion:** Trenching and resurfacing work associated with utility projects are not considered Priority Development Projects. Parking lots, buildings and other structures associated with utility projects are subject to the WPO requirements if one or more of the criteria above are met.

If you answered **NO** to all the questions, then **STOP**. Please complete a Minor SWMP for your project.

If you answered **YES** to any of the questions, please continue.

## HYDROMODIFICATION DETERMINATION

The following questions provide a guide to collecting information relevant to hydromodification management issues.

**Table 2**

	QUESTIONS	YES	NO	Information
1.	Will the proposed project disturb 50 or more acres of land? (Including all phases of development)		X	If YES, continue to 2. If NO, go to 6.
2.	Would the project site discharge directly into channels that are concrete-lined or significantly hardened such as with rip-rap, sackcrete, etc, downstream to their outfall into bays or the ocean?			If NO, continue to 3. If YES, go to 6.
3.	Would the project site discharge directly into underground storm drains discharging directly to bays or the ocean?			If NO, continue to 4. If YES, go to 6.
4.	Would the project site discharge directly to a channel (lined or un-lined) and the combined impervious surfaces downstream from the project site to discharge at the ocean or bay are 70% or greater?			If NO, continue to 5. If YES, go to 6.
5.	Project is required to manage hydromodification impacts.			Hydromodification Management Required as described in Section 67.812 b(4) of the WPO.
6.	Project is not required to manage hydromodification impacts.			Hydromodification Exempt. Keep on file.

**An exemption is potentially available for projects that are required (No. 5. in Table 2 above) to manage hydromodification impacts:** The project proponent may conduct an independent geomorphic study to determine the project's full hydromodification impact. The study must incorporate sediment transport modeling across the range of geomorphically-significant flows and demonstrate to the County's satisfaction that the project flows and sediment reductions will not detrimentally affect the receiving water to qualify for the exemption.

## STORMWATER QUALITY DETERMINATION

The following questions provide a guide to collecting information relevant to project stormwater quality issues. Please provide the following information in a printed report accompanying this form.

**Table 3**

	QUESTIONS	COMPLETED	NA
1.	Describe the topography of the project area.	X	
2.	Describe the local land use within the project area and adjacent areas.	X	
3.	Evaluate the presence of dry weather flow.		X
4.	Determine the receiving waters that may be affected by the project throughout all phases of development through completion (i.e., construction, long-term maintenance and operation).	X	
5.	For the project limits, list the 303(d) impaired receiving water bodies and their constituents of concern.	X	
6.	Determine if there are any High Risk Areas (which is defined by the presence of municipal or domestic water supply reservoirs or groundwater percolation facilities) within the project limits.		X
7.	Determine the Regional Board special requirements, including TMDLs, effluent limits, etc.		X
8.	Determine the general climate of the project area. Identify annual rainfall and rainfall intensity curves.	X	
9.	Determine the soil classification, permeability, erodibility, and depth to groundwater for Treatment BMP consideration.	X	
10.	Determine contaminated or hazardous soils within the project area.		X
11.	Determine if this project is within the environmentally sensitive areas as defined on the maps in Appendix A of the <i>County of San Diego Standard Urban Storm Water Mitigation Plan for Land Development and Public Improvement Projects</i> .		X
12.	Determine if this is an emergency project.		X

**WATERSHED**

Please check the watershed(s) for the project.

<input type="checkbox"/> San Juan 901	<input type="checkbox"/> Santa Margarita 902	<input type="checkbox"/> San Luis Rey 903	<input type="checkbox"/> Carlsbad 904
<input type="checkbox"/> San Dieguito 905	<input type="checkbox"/> Penasquitos 906	<input checked="" type="checkbox"/> San Diego 907	<input checked="" type="checkbox"/> Sweetwater 909
<input type="checkbox"/> Otay 910	<input type="checkbox"/> Tijuana 911	<input type="checkbox"/> Whitewater 719	<input type="checkbox"/> Clark 720
<input type="checkbox"/> West Salton 721	<input type="checkbox"/> Anza Borrego 722	<input type="checkbox"/> Imperial 723	

Please provide the hydrologic sub-area and number(s)

Number	Name
909.23	DEHESA / MIDDLE SWEETWATER

Please provide the beneficial uses for Inland Surface Waters and Ground Waters. Beneficial Uses can be obtained from the Water Quality Control Plan for the San Diego Basin, which is available at the Regional Board office or at [http://www.waterboards.ca.gov/sandiego/water\\_issues/programs/basin\\_plan/index.shtml](http://www.waterboards.ca.gov/sandiego/water_issues/programs/basin_plan/index.shtml)

SURFACE WATERS	Hydrologic Unit Basin Number	MUN	AGR	IND	PROC	GWR	FRESH	POW	REC1	REC2	BIOL	WARM	COLD	WILD	RARE	SPWN	
		Inland Surface Waters															
SWEETWATER RIVER	909.2	X	X	X	X	X	X		X	X	X	X	X	X	X		
Ground Waters	909.2	X	X	X													

\* Excepted from Municipal

X Existing Beneficial Use

0 Potential Beneficial Use

## POLLUTANTS OF CONCERN

Using Table 4, identify pollutants that are anticipated to be generated from the proposed priority project categories. Pollutants associated with any hazardous material sites that have been remediated or are not threatened by the proposed project are not considered a pollutant of concern.

**Table 4. Anticipated and Potential Pollutants Generated by Land Use Type**

<i><b>PDP Categories</b></i>	<i><b>General Pollutant Categories</b></i>								
	Sediments	Nutrients	Heavy Metals	Organic Compounds	Trash & Debris	Oxygen Demanding Substances	Oil & Grease	Bacteria & Viruses	Pesticides
Detached Residential Development	X	X			X	X	X	X	X
Attached Residential Development	X	X			X	P <sup>(1)</sup>	P <sup>(2)</sup>	P	X
Commercial Development 1 acre or greater	P <sup>(1)</sup>	P <sup>(1)</sup>		P <sup>(2)</sup>	X	P <sup>(5)</sup>	X	P <sup>(3)</sup>	P <sup>(5)</sup>
Heavy industry /industrial development	X		X	X	X	X	X		
Automotive Repair Shops			X	X <sup>(4)(5)</sup>	X		X		
Restaurants					X	X	X	X	
Hillside Development >5,000 ft <sup>2</sup>	X	X			X	X	X		X
Parking Lots	P <sup>(1)</sup>	P <sup>(1)</sup>	X		X	P <sup>(1)</sup>	X		P <sup>(1)</sup>
Retail Gasoline Outlets			X	X	X	X	X		
Streets, Highways & Freeways	X	P <sup>(1)</sup>	X	X <sup>(4)</sup>	X	P <sup>(5)</sup>	X		

X = anticipated  
P = potential  
(1) A potential pollutant if landscaping exists on-site.  
(2) A potential pollutant if the project includes uncovered parking areas.  
(3) A potential pollutant if land use involves food or animal waste products.  
(4) Including petroleum hydrocarbons.  
(5) Including solvents.

**Note:** If other monitoring data that is relevant to the project is available. Please include as Attachment C.

## CONSTRUCTION BMPs

Please check the construction BMPs that may be implemented during construction of the project. The applicant will be responsible for the placement and maintenance of the BMPs incorporated into the final project design.

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Silt Fence                            | <input type="checkbox"/> Desilting Basin                           |
| <input checked="" type="checkbox"/> Fiber Rolls                           | <input checked="" type="checkbox"/> Gravel Bag Berm                |
| <input type="checkbox"/> Street Sweeping and Vacuuming                    | <input type="checkbox"/> Sandbag Barrier                           |
| <input type="checkbox"/> Storm Drain Inlet Protection                     | <input checked="" type="checkbox"/> Material Delivery and Storage  |
| <input checked="" type="checkbox"/> Stockpile Management                  | <input checked="" type="checkbox"/> Spill Prevention and Control   |
| <input checked="" type="checkbox"/> Solid Waste Management                | <input checked="" type="checkbox"/> Concrete Waste Management      |
| <input checked="" type="checkbox"/> Stabilized Construction Entrance/Exit | <input type="checkbox"/> Water Conservation Practices              |
| <input type="checkbox"/> Dewatering Operations                            | <input checked="" type="checkbox"/> Paving and Grinding Operations |
| <input type="checkbox"/> Vehicle and Equipment Maintenance                |  |
- Any minor slopes created incidental to construction and not subject to a major or minor grading permit shall be protected by covering with plastic or tarp prior to a rain event, and shall have vegetative cover reestablished within 180 days of completion of the slope and prior to final building approval.

## EXCEPTIONAL THREAT TO WATER QUALITY DETERMINATION

Complete the checklist below to determine if a proposed project will pose an “exceptional threat to water quality,” and therefore require Advanced Treatment Best Management Practices.

**Table 5**

No.	CRITERIA	YES	NO	INFORMATION
1.	Is all or part of the proposed project site within 200 feet of waters named on the Clean Water Act (CWA) Section 303(d) list of Water Quality Limited Segments as impaired for sedimentation and/or turbidity? Current 303d list may be obtained from the following site: <a href="http://www.swrcb.ca.gov/tmdl/docs/303dlists2006/approved/r9_06_303d_req_tmdls.pdf">http://www.swrcb.ca.gov/tmdl/docs/303dlists2006/approved/r9_06_303d_req_tmdls.pdf</a>		X	If YES, continue to 2. If NO, go to 5.
2.	Will the project disturb more than 5 acres, including all phases of the development?			If YES, continue to 3. If NO, go to 5.
3.	Will the project disturb slopes that are steeper than 4:1 (horizontal: vertical) with at least 10 feet of relief, and that drain toward the 303(d) listed receiving water for sedimentation and/or turbidity?			If YES, continue to 4. If NO, go to 5.
4.	Will the project disturb soils with a predominance of USDA-NRCS Erosion factors $k_f$ greater than or equal to 0.4?			If YES, continue to 6. If NO, go to 5.
5.	Project is not required to use Advanced Treatment BMPs.		X	Document for Project Files by referencing this checklist.
6.	Project poses an “exceptional threat to water quality” and is required to use Advanced Treatment BMPs.		X	Advanced Treatment BMPs must be consistent with WPO section 67.811(b)(20)(D) performance criteria

**Exemption potentially available for projects that require advanced treatment:**

Project proponent may perform a Revised Universal Soil Loss Equation, Version 2 (RUSLE 2), Modified Universal Soil Loss Equation (MUSLE), or similar analysis that shows to the County official’s satisfaction that advanced treatment is not required

Now that the need for treatment BMPs has been determined, other information is needed to complete the SWMP.

## SITE DESIGN

To minimize stormwater impacts, site design measures must be addressed. The following checklist provides options for avoiding or reducing potential impacts during project planning. If YES is checked, it is assumed that the measure was used for this project.

**Table 6**

	OPTIONS	YES	NO	N/A
1.	Has the project been located and road improvements aligned to avoid or minimize impacts to receiving waters or to increase the preservation of critical (or problematic) areas such as floodplains, steep slopes, wetlands, and areas with erosive or unstable soil conditions?	X		
2.	Is the project designed to minimize impervious footprint?	X		
3.	Is the project conserving natural areas where feasible?	X		
4.	Where landscape is proposed, are rooftops, impervious sidewalks, walkways, trails and patios be drained into adjacent landscaping?	X		
5.	For roadway projects, are structures and bridges be designed or located to reduce work in live streams and minimize construction impacts?			X
6.	Can any of the following methods be utilized to minimize erosion from slopes:			
	6.a. Disturbing existing slopes only when necessary?	X		
	6.b. Minimize cut and fill areas to reduce slope lengths?	X		
	6.c. Incorporating retaining walls to reduce steepness of slopes or to shorten slopes?	X		
	6.d. Providing benches or terraces on high cut and fill slopes to reduce concentration of flows?			X
	6.e. Rounding and shaping slopes to reduce concentrated flow?			X
	6.f. Collecting concentrated flows in stabilized drains and channels?	X		

**LOW IMPACT DEVELOPMENT (LID)**

Each numbered item below is a LID requirement of the WPO. Please check the box(s) under each number that best describes the Low Impact Development BMP(s) selected for this project.

**Table 7**

1. Conserve natural Areas, Soils, and Vegetation-County LID Handbook 2.2.1
<input checked="" type="checkbox"/> Preserve well draining soils (Type A or B)
<input type="checkbox"/> Preserve Significant Trees
<input type="checkbox"/> Other. Description:
<input type="checkbox"/> 1. Not feasible. State Reason:
2. Minimize Disturbance to Natural Drainages-County LID Handbook 2.2.2
<input checked="" type="checkbox"/> Set-back development envelope from drainages
Restrict heavy construction equipment access to planned green/open space areas
<input type="checkbox"/> Other. Description:
<input type="checkbox"/> 2. Not feasible. State Reason:
3. Minimize and Disconnect Impervious Surfaces (see 5) -County LID Handbook 2.2.3
<input checked="" type="checkbox"/> Clustered Lot Design
<input type="checkbox"/> Items checked in 5?
<input type="checkbox"/> Other. Description:
<input type="checkbox"/> 3. Not feasible. State Reason:
4. Minimize Soil Compaction-County LID Handbook 2.2.4
Restrict heavy construction equipment access to planned green/open space areas
<input type="checkbox"/> Re-till soils compacted by construction vehicles/equipment
Collect & re-use upper soil layers of development site containing organic materials
<input checked="" type="checkbox"/> Other. Description: USE RETAINING WALLS TO LIMIT SOIL IMPACT
4. Not feasible. State Reason:
5. Drain Runoff from Impervious Surfaces to Pervious Areas-County LID Handbook 2.2.5

LID Street & Road Design
<input checked="" type="checkbox"/> Curb-cuts to landscaping
<input type="checkbox"/> Rural Swales
<input type="checkbox"/> Concave Median
<input type="checkbox"/> Cul-de-sac Landscaping Design
<input type="checkbox"/> Other. Description:
LID Parking Lot Design
<input type="checkbox"/> Permeable Pavements
<input type="checkbox"/> Curb-cuts to landscaping
<input type="checkbox"/> Other. Description:
LID Driveway, Sidewalk, Bike-path Design
<input type="checkbox"/> Permeable Pavements
<input checked="" type="checkbox"/> Pitch pavements toward landscaping
<input type="checkbox"/> Other. Description:
LID Building Design
<input type="checkbox"/> Cisterns & Rain Barrels
<input checked="" type="checkbox"/> Downspout to swale
<input type="checkbox"/> Vegetated Roofs
<input type="checkbox"/> Other. Description:
LID Landscaping Design
<input type="checkbox"/> Soil Amendments
<input checked="" type="checkbox"/> Reuse of Native Soils
<input checked="" type="checkbox"/> Smart Irrigation Systems
<input type="checkbox"/> Street Trees
<input type="checkbox"/> Other. Description:
<input type="checkbox"/> 5. Not feasible. State Reason:

## CHANNELS & DRAINAGES

Complete the following checklist to determine if the project includes work in channels.

**Table 8**

No.	CRITERIA	YES	NO	N/A	COMMENTS
1.	Will the project include work in channels?		X		If YES go to 2 If NO go to 13.
2.	Will the project increase velocity or volume of downstream flow?				If YES go to 6.
3.	Will the project discharge to unlined channels?				If YES go to 6.
4.	Will the project increase potential sediment load of downstream flow?				If YES go to 6.
5.	Will the project encroach, cross, realign, or cause other hydraulic changes to a stream that may affect downstream channel stability?				If YES go to 8.
6.	Review channel lining materials and design for stream bank erosion.				Continue to 7.
7.	Consider channel erosion control measures within the project limits as well as downstream. Consider scour velocity.				Continue to 8.
8.	Include, where appropriate, energy dissipation devices at culverts.				Continue to 9.
9.	Ensure all transitions between culvert outlets/headwalls/wingwalls and channels are smooth to reduce turbulence and scour.				Continue to 10.
10.	Include, if appropriate, detention facilities to reduce peak discharges.				Continue to 11.
11.	“Hardening“ natural downstream areas to prevent erosion is not an acceptable technique for protecting channel slopes, unless pre-development conditions are determined to be so erosive that hardening would be required even in the absence of the proposed development.				Continue to 12.
12.	Provide other design principles that are comparable and equally effective.				Continue to 13.
13.	End				

## SOURCE CONTROL

Please complete the following checklist for Source Control BMPs. If the BMP is not applicable for this project, then check N/A only at the main category.

**Table 9**

BMP		YES	NO	N/A
<b>1.</b>	<b>Provide Storm Drain System Stenciling and Signage</b>			
1.a.	All storm drain inlets and catch basins within the project area shall have a stencil or tile placed with prohibitive language (such as: "NO DUMPING – DRAINS TO _____") and/or graphical icons to discourage illegal dumping.			X
1.b.	Signs and prohibitive language and/or graphical icons, which prohibit illegal dumping, must be posted at public access points along channels and creeks within the project area.			X
<b>2.</b>	<b>Design Outdoors Material Storage Areas to Reduce Pollution Introduction</b>			
2.a.	This is a detached single-family residential project. Therefore, personal storage areas are exempt from this requirement.	X		
2.b.	Hazardous materials with the potential to contaminate urban runoff shall either be: (1) placed in an enclosure such as, but not limited to, a cabinet, shed, or similar structure that prevents contact with runoff or spillage to the storm water conveyance system; or (2) protected by secondary containment structures such as berms, dikes, or curbs.			X
2.c.	The storage area shall be paved and sufficiently impervious to contain leaks and spills.			X
2.d.	The storage area shall have a roof or awning to minimize direct precipitation within the secondary containment area.			X
<b>3.</b>	<b>Design Trash Storage Areas to Reduce Pollution Introduction</b>			
3.a.	Paved with an impervious surface, designed not to allow run-on from adjoining areas, screened or walled to prevent off-site transport of trash; or,	X		
3.b.	Provide attached lids on all trash containers that exclude rain, or roof or awning to minimize direct precipitation.	X		
<b>4.</b>	<b>Use Efficient Irrigation Systems &amp; Landscape Design</b>			
	The following methods to reduce excessive irrigation runoff shall be considered, and incorporated and implemented where determined applicable and feasible.			
4.a.	Employing rain shutoff devices to prevent irrigation after precipitation.	X		
4.b.	Designing irrigation systems to each landscape area's specific water requirements.	X		
4.c.	Using flow reducers or shutoff valves triggered by a pressure drop to control water loss in the event of broken sprinkler heads or lines.	X		
4.d.	Employing other comparable, equally effective, methods to reduce irrigation water runoff.			
<b>5.</b>	<b>Private Roads</b>			

BMP		YES	NO	N/A
	The design of private roadway drainage shall use at least one of the following			
5.a.	Rural swale system: street sheet flows to vegetated swale or gravel shoulder, curbs at street corners, culverts under driveways and street crossings.			
5.b.	Urban curb/swale system: street slopes to curb, periodic swale inlets drain to vegetated swale/biofilter.	X		
5.c.	Dual drainage system: First flush captured in street catch basins and discharged to adjacent vegetated swale or gravel shoulder, high flows connect directly to storm water conveyance system.			
5.d.	Other methods that are comparable and equally effective within the project.			
<b>6.</b>	<b>Residential Driveways &amp; Guest Parking</b>			
	The design of driveways and private residential parking areas shall use one at least of the following features.			
6.a.	Design driveways with shared access, flared (single lane at street) or wheelstrips (paving only under tires); or, drain into landscaping prior to discharging to the storm water conveyance system.	X		
6.b.	Uncovered temporary or guest parking on private residential lots may be: paved with a permeable surface; or, designed to drain into landscaping prior to discharging to the storm water conveyance system.	X		
6.c.	Other features which are comparable and equally effective.			
<b>7.</b>	<b>Dock Areas</b>			X
	Loading/unloading dock areas shall include the following.			
7.a.	Cover loading dock areas, or design drainage to preclude urban run-on and runoff.			
7.b.	Direct connections to storm drains from depressed loading docks (truck wells) are prohibited.			
7.c.	Other features which are comparable and equally effective.			
<b>8.</b>	<b>Maintenance Bays</b>			X
	Maintenance bays shall include the following.			
8.a.	Repair/maintenance bays shall be indoors; or, designed to preclude urban run-on and runoff.			
8.b.	Design a repair/maintenance bay drainage system to capture all wash water, leaks and spills. Connect drains to a sump for collection and disposal. Direct connection of the repair/maintenance bays to the storm drain system is prohibited. If required by local jurisdiction, obtain an Industrial Waste Discharge Permit.			
8.c.	Other features which are comparable and equally effective.			
<b>9.</b>	<b>Vehicle Wash Areas</b>			X
	Priority projects that include areas for washing/steam cleaning of vehicles shall use the following.			
9.a.	Self-contained; or covered with a roof or overhang.			
9.b.	Equipped with a clarifier or other pretreatment facility.			
9.c.	Properly connected to a sanitary sewer.			
9.d.	Other features which are comparable and equally effective.			

BMP		YES	NO	N/A
10.	<b>Outdoor Processing Areas</b>			
	Outdoor process equipment operations, such as rock grinding or crushing, painting or coating, grinding or sanding, degreasing or parts cleaning, waste piles, and wastewater and solid waste treatment and disposal, and other operations determined to be a potential threat to water quality by the County shall adhere to the following requirements.			X
	10.a. Cover or enclose areas that would be the most significant source of pollutants; or, slope the area toward a dead-end sump; or, discharge to the sanitary sewer system following appropriate treatment in accordance with conditions established by the applicable sewer agency.			
	10.b. Grade or berm area to prevent run-on from surrounding areas.			
	10.c. Installation of storm drains in areas of equipment repair is prohibited.			
	10.d. Other features which are comparable or equally effective.			
11.	<b>Equipment Wash Areas</b>			X
	Outdoor equipment/accessory washing and steam cleaning activities shall be.			
	11.a. Be self-contained; or covered with a roof or overhang.			
	11.b. Be equipped with a clarifier, grease trap or other pretreatment facility, as appropriate			
	11.c. Be properly connected to a sanitary sewer.			
	11.d. Other features which are comparable or equally effective.			
12.	<b>Parking Areas</b>			X
	The following design concepts shall be considered, and incorporated and implemented where determined applicable and feasible by the County.			
	12.a. Where landscaping is proposed in parking areas, incorporate landscape areas into the drainage design.			
	12.b. Overflow parking (parking stalls provided in excess of the County's minimum parking requirements) may be constructed with permeable paving.			
	12.c. Other design concepts that are comparable and equally effective.			
13.	<b>Fueling Area</b>			X
	Non-retail fuel dispensing areas shall contain the following.			
	13.a. Overhanging roof structure or canopy. The cover's minimum dimensions must be equal to or greater than the area within the grade break. The cover must not drain onto the fuel dispensing area and the downspouts must be routed to prevent drainage across the fueling area. The fueling area shall drain to the project's treatment control BMP(s) prior to discharging to the storm water conveyance system.			
	13.b. Paved with Portland cement concrete (or equivalent smooth impervious surface). The use of asphalt concrete shall be prohibited.			
	13.c. Have an appropriate slope to prevent ponding, and must be separated from the rest of the site by a grade break that prevents run-on of urban runoff.			

<b>BMP</b>		<b>YES</b>	<b>NO</b>	<b>N/A</b>
13.d.	At a minimum, the concrete fuel dispensing area must extend 6.5 feet (2.0 meters) from the corner of each fuel dispenser, or the length at which the hose and nozzle assembly may be operated plus 1 foot (0.3 meter), whichever is less.			

Please list other project specific Source Control BMPs in the following box. Write N/A if there are none.

## TREATMENT CONTROL

To select a structural treatment BMP using Treatment Control BMP Selection Matrix (Table 10), each priority project shall compare the list of pollutants for which the downstream receiving waters are impaired (if any), with the pollutants anticipated to be generated by the project (as identified in Table 4). Any pollutants identified by Table 4, which are also causing a Clean Water Act section 303(d) impairment of the receiving waters of the project, shall be considered primary pollutants of concern. Priority projects that are anticipated to generate a primary pollutant of concern shall select a single or combination of stormwater BMPs from Table 10, which **maximizes pollutant removal** for the particular primary pollutant(s) of concern.

Priority development projects that are **not** anticipated to generate a pollutant for which the receiving water is CWA 303(d) impaired shall select a single or combination of stormwater BMPs from Table 10, which are effective for pollutant removal of the identified secondary pollutants of concern, consistent with the “maximum extent practicable” standard.

**Table 10. Treatment Control BMP Selection Matrix**

<b>Pollutants of Concern</b>	<b>Bioretention Facilities (LID)*</b>	<b>Settling Basins (Dry Ponds)</b>	<b>Wet Ponds and Wetlands</b>	<b>Infiltration Facilities or Practices (LID)*</b>	<b>Media Filters</b>	<b>High-rate biofilters</b>	<b>High-rate media filters</b>	<b>Trash Racks &amp; Hydro-dynamic Devices</b>
<b>Coarse Sediment and Trash</b>	High	High	High	High	High	High	High	High
<b>Pollutants that tend to associate with fine particles during treatment</b>	High	High	High	High	High	Medium	Medium	Low
<b>Pollutants that tend to be dissolved following treatment</b>	Medium	Low	Medium	High	Low	Low	Low	Low

\*Additional information is available in the County of San Diego LID Handbook.

**NOTES ON POLLUTANTS OF CONCERN:**

In Table 11, Pollutants of Concern are grouped as gross pollutants, pollutants that tend to associate with fine particles, and pollutants that remain dissolved.

**Table 11**

Pollutant	Coarse Sediment and Trash	Pollutants that tend to associate with fine particles during treatment	Pollutants that tend to be dissolved following treatment
Sediment	X	X	
Nutrients		X	X
Heavy Metals		X	
Organic Compounds		X	
Trash & Debris	X		
Oxygen Demanding		X	
Bacteria		X	
Oil & Grease		X	
Pesticides		X	

A Treatment BMP must address runoff from developed areas. Please provide the post-construction water quality treatment volume or flow values for the selected project Treatment BMP(s). Guidelines for design calculations are located in Chapter 5, Section 4.3, Principle 8 of the County SUSMP. Label outfalls on the BMP map. The Water Quality peak rate of discharge flow ( $Q_{wQ}$ ) and the Water Quality storage volume ( $V_{wQ}$ ) is dependent on the type of treatment BMP selected for the project.

Outfall	Tributary Area (acres)	$Q_{wQ}$ (cfs)	$V_{wQ}$ (ft <sup>3</sup> )
A1	1.41	0.41	

Please check the box(s) that best describes the Treatment BMP(s) selected for this project.

<b>Biofilters</b>
<input checked="" type="checkbox"/> Bioretention swale
<input type="checkbox"/> Vegetated filter strip
<input checked="" type="checkbox"/> Stormwater Planter Box (open-bottomed)
<input type="checkbox"/> Stormwater Flow-Through Planter (sealed bottom)
<input type="checkbox"/> Bioretention Area
<input type="checkbox"/> Vegetated Roofs/Modules/Walls
<b>Detention Basins</b>
<input type="checkbox"/> Extended/dry detention basin with grass/vegetated lining
<input type="checkbox"/> Extended/dry detention basin with impervious lining
<b>Infiltration Basins</b>
<input type="checkbox"/> Infiltration basin
<input type="checkbox"/> Infiltration trench
<input type="checkbox"/> Dry well
<input type="checkbox"/> Permeable Paving
<input type="checkbox"/> Gravel
<input type="checkbox"/> Permeable asphalt
<input type="checkbox"/> Pervious concrete
<input type="checkbox"/> Unit pavers, ungrouted, set on sand or gravel
<input type="checkbox"/> Subsurface reservoir bed
<b>Wet Ponds or Wetlands</b>
<input type="checkbox"/> Wet pond/basin (permanent pool)
<input type="checkbox"/> Constructed wetland
<b>Filtration</b>
<input type="checkbox"/> Media filtration
<input type="checkbox"/> Sand filtration
<b>Hydrodynamic Separator Systems</b>
<input type="checkbox"/> Swirl Concentrator
<input type="checkbox"/> Cyclone Separator
<b>Trash Racks and Screens</b>

	COMPLETED	NO
Include Treatment Datasheet as Attachment E. The datasheet should include the following:		
1. Description of how treatment BMP was designed. Provide a description for each type of treatment BMP.		/
2. Engineering calculations for the BMP(s)		/

Please describe why the selected treatment BMP(s) was selected for this project. For projects utilizing a low performing BMP, please provide a detailed explanation.

BIORETENTION SWALES AND STORMWATER PLANTER BOXES WERE SELECTED BECAUSE OF THE STEEP SLOPES OF THE SITE AND MINIMAL DISTURBANCE FOR THE DRIVEWAY AND HOUSE FOOTPRINT. PERVIOUS PAVEMENT AND DETENTION BASINS ARE NOT APPROPRIATE FOR THIS SITE DUE TO STEEP SLOPES. SINCE MINIMAL LANDSCAPING WILL BE DONE, NATIVE PLANTS WILL NOT REQUIRE IRRIGATION OR FERTILIZING.

**MAINTENANCE**

Please check the box that best describes the maintenance mechanism(s) for this project. Guidelines for each category are located in Chapter 5, Section 5.2 of the County SUSMP.

CATEGORY	SELECTED	
	YES	NO
First	X	
Second <sup>1</sup>		X
Third <sup>1</sup>		X
Fourth		X

Note:

1. Projects in Category 2 or 3 may choose to establish or be included in a Stormwater Maintenance Assessment District for the long-term maintenance of treatment BMPs.

**ATTACHMENTS**

Please include the following attachments.

ATTACHMENT		COMPLETED	N/A
A	Project Location Map	X	
B	Site Map	X	
C	Relevant Monitoring Data		X
D	LID and Treatment BMP Location Map		
E	Treatment BMP Datasheets		
F	Operation and Maintenance Program for Treatment BMPs		
G	Fiscal Resources		
H	Certification Sheet		
I	Addendum		

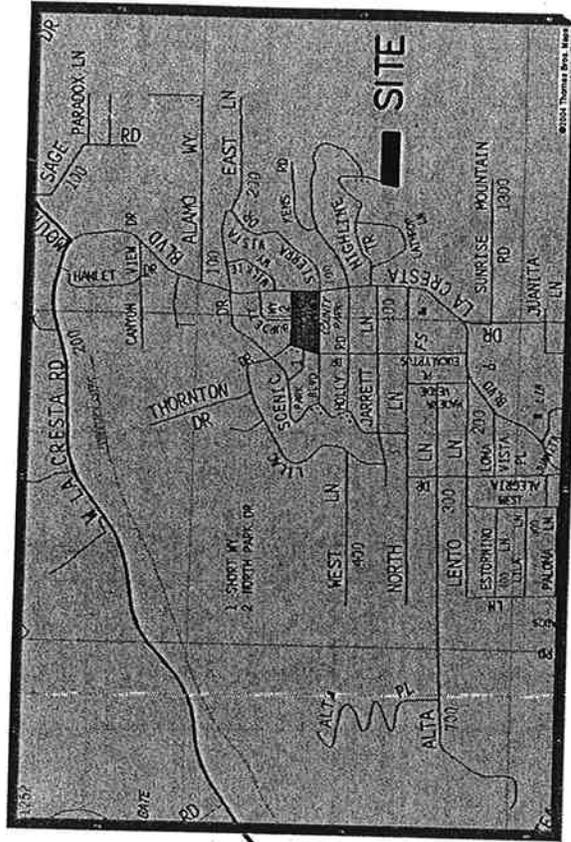
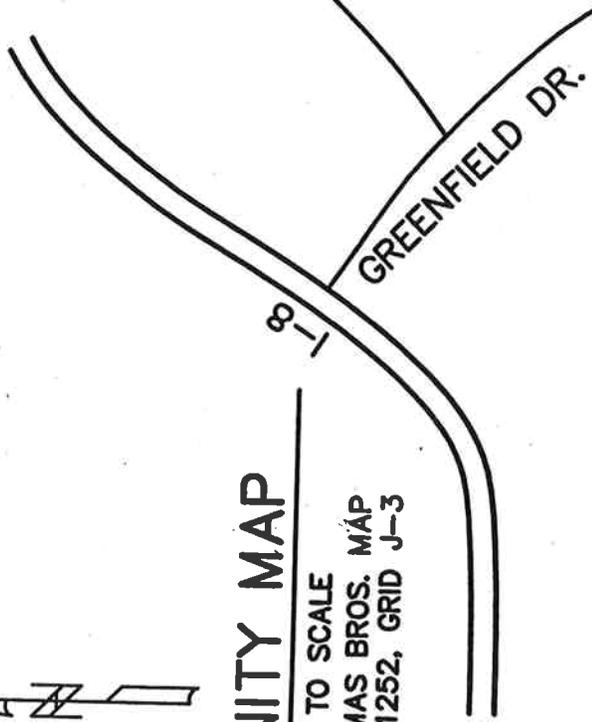
Note: Attachments A and B may be combined.

**ATTACHMENT A**  
**PROJECT LOCATION MAP**



# VICINITY MAP

NOT TO SCALE  
THOMAS BROS. MAP  
PG. 1252, GRID J-3



**ATTACHMENT B**

**SITE MAP**

**GENERAL NOTES**

- APPROVAL OF THIS GRADING PLAN DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREON FOR COUNTY ROAD PURPOSES.
- FINAL APPROVAL OF THESE GRADING PLANS IS SUBJECT TO FINAL APPROVAL OF THE ASSOCIATED IMPROVEMENT PLANS WHERE APPLICABLE. FINISH CURB GRADE ELEVATIONS MAY REQUIRE CHANGES IN THESE PLANS.
- IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
- A CONSTRUCTION, EXCAVATION OR ENCROACHMENT PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS WILL BE REQUIRED FOR ANY WORK IN THE COUNTY RIGHT-OF-WAY.
- ALL SLOPES WILL BE PLANTED IN ACCORDANCE WITH SAN DIEGO COUNTY SPECIFICATIONS.
- THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK. NOTICE OF THE PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES:  
SAN DIEGO GAS & ELECTRIC 1-800-227-2800  
PACIFIC BELL TELEPHONE 1-800-227-2800  
CATV: CABLE USA 760-767-5607  
SEWER: SPRING VALLEY SANITATION DISTRICT 619-660-2007  
WATER: SHEETWATER AUTHORITY 619-420-1413
- A SOILS REPORT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
- APPROVAL OF THESE PLANS BY THE DIRECTOR OF PUBLIC WORKS DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND A VALID GRADING PERMIT HAS BEEN ISSUED.
- THE DIRECTOR OF PUBLIC WORKS' APPROVAL OF THESE PLANS DOES NOT CONSTITUTE COUNTY BUILDING DEPARTMENT APPROVAL OF ANY FOUNDATIONS OR STRUCTURES TO BE PLACED ON THE AREA COVERED BY THESE PLANS. NO WAIVER OF THE GRADING ORDINANCE REQUIREMENTS CONCERNING MINIMUM COVER OVER EXPANSIVE SOILS IS MADE OR IMPLIED (SECTIONS 87.403 & 87.410). ANY SUCH WAIVER MUST BE OBTAINED FROM THE DIRECTOR OF PLANNING AND LAND USE.
- ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED GRADING EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7 A.M. AND 6 P.M. EACH DAY, MONDAY THROUGH SATURDAY, AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON THE PREMISES ON SUNDAYS OR HOLIDAYS.
- ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ADJUTING CUT OR FILL SURFACES.
- NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO THE ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PUBLIC STREET, SIDEWALK, ALLEY, FUNCTION OF ANY SEWAGE DISPOSAL SYSTEM OR ANY OTHER PUBLIC OR PRIVATE PROPERTY WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY FROM SETTLING, CRACKING, EROSION, SILTING, SCOUR OR OTHER DAMAGE WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THIS PLAN. THE COUNTY WILL HOLD THE PERMITEE RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
- SLOPE RATIOS:  
CUT- 1.5:1 FOR MINOR SLOPES; 2:1 FOR MAJOR SLOPES  
FILL 2:1 SLOPES DEVIATING FROM THE ABOVE WILL REQUIRE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS AFTER REVIEW OF A REPORT FROM A SOILS ENGINEER.  
EXCAVATION: 475± C.Y. FILL: 50± C.Y.  
WASTE IMPORT: 425± C.Y. A SEPARATE PERMIT MUST BE OBTAINED FOR A WASTE OR IMPORT AREA.
- SPECIAL CONDITION: IF ANY ARCHAEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING DURING GRADING OPERATIONS, SUCH OPERATIONS WILL CEASE IMMEDIATELY, AND THE PERMITEE WILL NOTIFY THE DIRECTOR OF PUBLIC WORKS OF THE DISCOVERY. GRADING OPERATIONS WILL NOT RECOMMENCE UNTIL THE PERMITEE HAS RECEIVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PUBLIC WORKS TO DO SO.
- ALL GRADING DETAILS WILL BE IN ACCORDANCE WITH SAN DIEGO COUNTY STANDARD DRAWINGS DS-8, DS-10, DS-11, D-75
- THE CONTRACTOR SHALL CALCULATE HIS OWN EARTHWORK QUANTITIES FOR BIDDING PURPOSES.
- NO CHANGES SHALL BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER OF WORK.
- FINISHED GRADING SHALL BE CERTIFIED BY A REGISTERED CIVIL ENGINEER AND INSPECTED BY THE DIRECTOR OF PUBLIC WORKS FOR DRAINAGE CLEARANCE. (APPROVAL OF ROUGH GRADING DOES NOT CERTIFY FINISH GRADING BECAUSE OF POTENTIAL SURFACE DRAINAGE PROBLEMS THAT MAY BE CREATED BY LANDSCAPING ACCOMPLISHED AFTER ROUGH GRADING CERTIFICATION).

**ABBREVIATIONS**

- TC = TOP OF GRATE CATCH BASIN
- FL = FLOW LINE OF PIPE
- FS = FINISH SURFACE ELEVATION OF HARDSCAPE
- FG = FINISH GROUND ELEVATION (EARTH)
- CL = CENTERLINE
- PP = POWER POLE
- O/H = OVERHEAD POWER LINES CAUTION!!!
- TW = TOP OF RETAINING WALL
- BW = BOTTOM OF RETAINING WALL

**GENERAL NOTES (CON'T)**

- THE ACTIVITIES SHOWN ON THESE PLANS ARE SUBJECT TO ENFORCEMENT UNDER PERMITS FROM THE SAN DIEGO REGIONAL WATER QUALITY CONTROL BOARD AND MUST ALSO COMPLY WITH THE REQUIREMENTS OF THE SAN DIEGO COUNTY MUNICIPAL STORMWATER PERMIT. THIS INCLUDES REQUIREMENTS FOR MATERIALS AND WASTES CONTROL, EROSION CONTROL, AND SEDIMENT CONTROL ON PROJECT CONSTRUCTION SITES. THE PERMITEES OF OPERATIONS SHOWN ON THESE PLANS ARE OBLIGATED TO INSURE COMPLIANCE WITH ALL APPLICABLE STORMWATER REGULATIONS AT ALL TIMES. ON PROJECTS OF GREATER THAN 5 ACRES, THE PERMITEE SHALL ALSO KEEP A COPY OF THE SWPPP (STORMWATER POLLUTION PREVENTION PLAN) ON SITE AND AVAILABLE FOR REVIEW BY THE COUNTY.
- THE PERMITEE OF THE GRADING SHOWN ON THESE PLANS ACKNOWLEDGES THAT BMPs (BEST MANAGEMENT PRACTICES) HAVE BEEN INCORPORATED INTO THIS PLAN AND WILL BE IMPLEMENTED AND MAINTAINED TO EFFECTIVELY MINIMIZE THE POTENTIALLY NEGATIVE IMPACTS OF THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORMWATER QUALITY. FURTHER, THAT THE MAINTENANCE OF THE SELECTED STORMWATER BMPs SHOWN ON THIS PLAN IS THEIR RESPONSIBILITY, AND FAILURE TO PROPERLY INSTALL OR MAINTAIN THE BMPs MAY RESULT IN ENFORCEMENT ACTION BY THE COUNTY OF SAN DIEGO OR OTHERS.

**ENGINEER'S NOTES**

- NO REVISIONS SHALL BE MADE TO THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER.
- NEITHER THE OWNER NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS.
- THE CONTRACTOR SHALL CONFORM TO THE LATEST LABOR CODE BY SUBMITTING A DETAILED PLAN SHOWING THE DESIGN OF SHORING, BRACING, SLOPING, OR OTHER PROVISIONS TO BE MADE FOR WORKER PROTECTION FROM THE HAZARD OF CAVING GROUND DURING THE EXCAVATION OF SUCH TRENCH OR TRENCHES OR DURING THE PIPE INSTALLATION THEREIN. THIS PLAN MUST BE PREPARED FOR ALL TRENCHES 5 FEET OR MORE IN DEPTH AND BE APPROVED BY THE GOVERNING AGENCY PRIOR TO EXCAVATION. IF THE PLAN VARIES FROM THE SHORING STANDARDS ESTABLISHED BY THE STATE CONSTRUCTION SAFETY ORDERS, THE PLAN SHALL BE PREPARED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE DIVISION OF INDUSTRIAL SAFETY AND SHALL ADHERE TO ALL PROVISIONS OF THE STATE CONSTRUCTION SAFETY ORDERS.
- A PRECONSTRUCTION CONFERENCE WITH THE ENGINEER OF WORK SHALL BE HELD PRIOR TO BEGINNING CONSTRUCTION.
- ALL PROPERTY CORNERS DISTURBED BY CONSTRUCTION WORK OR IMPROVEMENTS SHALL BE RESET BY THE SURVEYOR OF RECORD AT THE CONTRACTOR'S EXPENSE.
- THE ENGINEER OF WORK IS NOT RESPONSIBLE FOR GRADING OPERATIONS OR GRADING WORK DONE. THE CONTRACTOR IS SOLELY RESPONSIBLE.
- EROSION CONTROL, INCLUDING RIP-RAP, INTERIM SLOPE PROTECTION, SAND BAGS OR OTHER EROSION CONTROL MEASURES SHALL BE PROVIDED AS NECESSARY TO CONTROL SEDIMENTS AND SILT FROM THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL FACILITIES THROUGHOUT THE DEVELOPMENT OF THE PROJECT.
- PRECISE LOCATION AND ELEVATIONS ARE NOT KNOWN FOR THE EXISTING UNDERGROUND UTILITIES. CONTRACTOR SHALL MAKE SUFFICIENT EXPLORATIONS TO LOCATE UTILITIES BEFORE COMMENCING CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF WORK OF ANY POTENTIAL CONFLICTS SUFFICIENTLY IN TIME FOR CONSTRUCTION CHANGES TO BE MADE AND APPROVED. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROTECTION OF EXISTING UTILITIES.
- CONTRACTOR TO MAINTAIN 1% MINIMUM SLOPE ON ALL DITCHES.
- ONLY GRADING AND PRIVATE DRAINAGE FACILITIES ARE APPROVED ON THIS GRADING PLAN. ALL OTHER FEATURES ARE SHOWN ONLY FOR INFORMATION PURPOSES.
- A SOILS REPORT WITH COMPACTION TESTS IS REQUIRED FOR ALL FILL THAT IS OVER 12 INCHES IN DEPTH FORM DPL/CO/73. CERTIFICATION OF FILL COMPACTION, AND THREE (3) COPIES OF THE COMPACTION REPORT FILLED OUT BY A REGISTERED ENGINEER, ARE TO BE SUBMITTED AFTER THE GRADING HAS BEEN DONE.
- ALL GRADING SHALL BE SUPERVISED BY A REGISTERED CIVIL ENGINEER.
- THE FACE OF ALL CUT AND FILL SLOPES SHALL BE PLANTED AND MAINTAINED WITH A GROUND COVER OR OTHER PLANTING TO PROTECT THE SLOPES AGAINST EROSION AND INSTABILITY. PLANTING SHALL COMMENCE AS SOON AS SLOPES ARE COMPLETED AND MUST BE COMPLETED AND ESTABLISHED PRIOR TO ROUGH APPROVAL OF THE GRADING AND BUILDING.
- ALL IMPORT MATERIAL SHALL BE OBTAINED FROM A DESIGNATED LEGAL SITE AND EXCESS DISPOSED OF AT AN IDENTIFIED LEGAL SITE.

**PRELIMINARY GRADING PLAN  
DYKE RESIDENCE**

**GRADING SPECIFICATIONS**

- ALL GRADING SHALL BE DONE UNDER THE OBSERVATION AND TESTING BY A QUALIFIED CIVIL ENGINEER OR GEOTECHNICAL ENGINEER OR, IF REQUIRED, BOTH A QUALIFIED CIVIL ENGINEER OR GEOTECHNICAL ENGINEER AND AN ENGINEERING GEOLOGIST. ALL GRADING MUST BE PERFORMED IN ACCORDANCE WITH APPLICABLE COUNTY ORDINANCE AND THE RECOMMENDATIONS AND SPECIFICATIONS SET FORTH IN THE GEOTECHNICAL INVESTIGATION ENTITLED:  
  
2. ALL FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% OR BETTER AND REPORTS SHALL BE SUBMITTED TO THE COUNTY'S RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE  
  
3. AT THE COMPLETION OF THE GRADING OPERATIONS, AN AS-GRADED SOILS AND GEOTECHNICAL REPORT WILL BE PREPARED. ONE COPY OF THIS REPORT WILL BE SUBMITTED TO THE FIELD INSPECTION SECTION WITHIN 15 DAYS OF THE COMPLETION OF GRADING.  
  
4. THESE GRADING PLANS HAVE BEEN REVIEWED BY THE UNDERSIGNED AND FOUND TO BE IN SUBSTANTIAL CONFORMANCE WITH THE RECOMMENDATIONS AND SPECIFICATIONS OUTLINED IN THE GEOTECHNICAL REPORT PREPARED FOR THIS DEVELOPMENT, DATED: SEPTEMBER 8, 2004.  
  
THE SOILS REPORT SHALL BE CONSIDERED AS PART OF THIS PLAN, AND ALL GRADING WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND RECOMMENDATIONS OF SAID REPORT.

NAME: \_\_\_\_\_ DATE \_\_\_\_\_

NAME: \_\_\_\_\_ DATE \_\_\_\_\_

**DECLARATION OF RESPONSIBLE CHARGE**

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITY FOR PROJECT DESIGN.



MARK A. FARRINGTON R.C.E. 38114 EXP. 3/31/07  
11679 VIA FIRUL  
SAN DIEGO, CA 92128  
(858) 679-9490

**SOLAR CERTIFICATION**

THIS SUBDIVISION HAS A MINIMUM OF 100 SQUARE FEET OF SOLAR ACCESS FOR EACH EXISTING AND/OR PROPOSED DWELLING UNIT AS REQUIRED BY SECTION 81.401(n) OF THE SUBDIVISION ORDINANCE.

MARK A. FARRINGTON R.C.E. 38114 EXP. 3/31/07 DATE \_\_\_\_\_

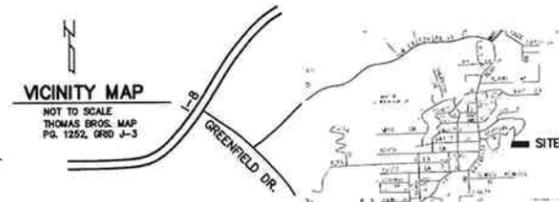
**CONTRACTOR'S NOTE**

Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property; that this requirement shall be made to apply continuously and not be limited to normal working hours, and construction contractor further agrees to defend, indemnify and hold County of San Diego harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting liability arising from the sole negligence of County of San Diego professional.

**ENGINEER'S NOTE**

UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of these plans.

"NOTICE: THE ISSUANCE OF THIS PERMIT /APPROVAL BY THE COUNTY OF SAN DIEGO DOES NOT AUTHORIZE THE APPLICANT FOR SAID PERMIT/APPROVAL TO VIOLATE ANY FEDERAL, STATE, OR COUNTY LAWS, ORDINANCES, REGULATIONS, OR POLICIES INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT AND ANY AMENDMENTS THERETO."



**WORK TO BE DONE**

GRADING AND DRAINAGE WORK CONSIST OF THE FOLLOWING WORK TO BE DONE ACCORDING TO THESE PLANS, THE CURRENT SAN DIEGO AREA REGIONAL STANDARD DRAWINGS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2000 EDITION AND PER SAN DIEGO COUNTY GRADING ORDINANCE.

**STANDARD SPECIFICATIONS**

- STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (2000 EDITION), INCLUDING THE REGIONAL AMENDMENTS.
- SAN DIEGO COUNTY REGIONAL STANDARDS COMMITTEE 1990 EDITION OF THE "WATCH" HANDBOOK, DOCUMENT NO. 769802, FILED JUNE 29, 1992.
- CALIFORNIA DEPARTMENT OF TRANSPORTATION, "MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES," (1990 EDITION), DOCUMENT NO. 769744, FILED NOV. 7, 1990.

**STANDARD DRAWINGS**

- COUNTY OF SAN DIEGO STANDARD DRAWINGS, DOCUMENT NO. 769798, FILED APRIL 23, 1992.
- STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD PLANS (JULY 1992), DOCUMENT NO. 769805, FILED JULY 9, 1992.

**IMPROVEMENTS STD. DWG. LEGEND**

PROJECT BOUNDARY		
EXISTING CONTOUR (CURRENT CONDITIONS)		
EXISTING CONTOUR (NON-PERMITTED GRADING)		
PROPOSED CONTOUR		
CUT SLOPE (2:1 MAX.)		
FILL SLOPE (2:1 MAX.)		
CUT/FILL LINE		
FINISH GRADE ELEVATION (FG)		
MASONRY RETAINING WALL (PER PLAN REFERENCE)		
RIPRAP ENERGY DISSIPATOR (TYPE 2) D-40		
STABILIZED CONSTRUCTION ENTRANCE	CD29A OR ESC 24	
GRAVEL BAGS	CD38 OR ESC 52	
SILT FENCE	CD29A OR ESC 24	
MATERIAL DELIVER STORAGE	WM-1	
CONCRETE WASTE MANAGEMENT	WM-8	
SANITARY/SEPTIC WASTE MANAGEMENT	WM-9	

**PRELIMINARY GRADING PLAN NOTE:**

THIS PLAN IS PROVIDED TO ALLOW FOR FULL AND ADEQUATE DISCRETIONARY REVIEW OF A PROPOSED DEVELOPMENT PROJECT. THE PROPERTY OWNER ACKNOWLEDGES THAT ACCEPTANCE OR APPROVAL OF THIS PLAN DOES NOT CONSTITUTE AN APPROVAL TO PERFORM ANY GRADING SHOWN HEREON, AND AGREES TO OBTAIN A VALID GRADING PERMIT BEFORE COMMENCING SUCH ACTIVITY.

<b>EAST COUNTY FIRE PROTECTION DISTRICT</b>	<b>COUNTY OF SAN DIEGO DEPARTMENT OF PLANNING AND LAND USE</b>	<b>COUNTY APPROVED CHANGES</b>			
APPROVED BY: CHIEF DARRELL JOBS	APPROVED BY: _____	No.	Description	Approved by	Date
DATE: _____	DATE: _____				

**OWNER'S/PERMITEE'S**

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

TELEPHONE NO.: \_\_\_\_\_

SHORT LEGAL DESCRIPTION: \_\_\_\_\_

SITE ADDRESS: \_\_\_\_\_

A.P.N. NO.: \_\_\_\_\_

**PERMITS**

NO. N/A

IMPROVEMENT PLAN NO. N/A

REZONE PERMIT NO. N/A

MAJOR USE PERMIT NO. N/A

**BENCH MARK**

DESCRIPTION: \_\_\_\_\_

LOCATION: \_\_\_\_\_

RECORDED FROM: \_\_\_\_\_

ELEVATION: \_\_\_\_\_ DATUM: \_\_\_\_\_

**PRIVATE CONTRACT**

SHEET 1 OF 2 SHEETS

COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS

GRADING PLANS FOR: CALIFORNIA COORDINATE INDEX: 226-1809

Approved: DOUGLAS M. ISBELL County Engineer

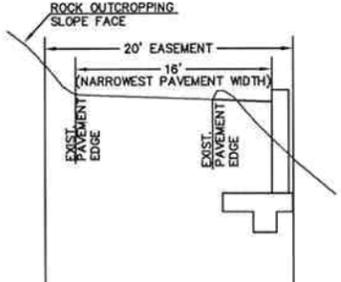
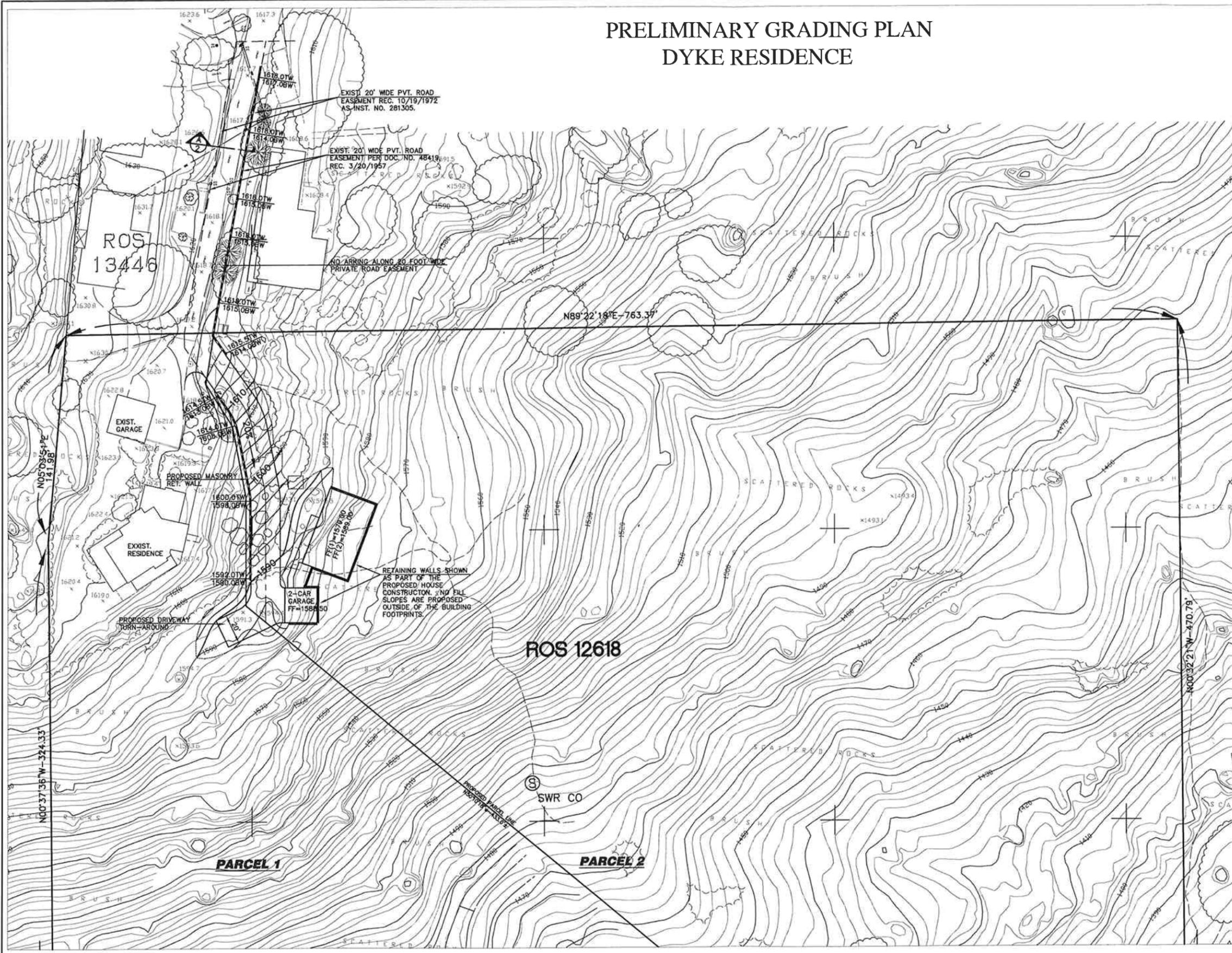
Engineer of work: MARK A. FARRINGTON R.C.E.

By: \_\_\_\_\_

Date: \_\_\_\_\_

Grading Permit No. L-XXXXX

# PRELIMINARY GRADING PLAN DYKE RESIDENCE



**SECTION A-A**  
NOT TO SCALE  
NARROWEST OFFSITE PROPOSED PAVEMENT ACCESS WIDTH

**GRADING DATA:**  
 CUT: 475± C.Y.  
 FILL: 50± C.Y.  
 EXPORT: 425± C.Y.  
 MAXIMUM HEIGHT OF CUT SLOPE: 5 FEET  
 NO FILL SLOPES PROPOSED: FILL UNDER STRUCTURES  
 MAXIMUM RETAINING WALL HEIGHT: 6 FEET



<b>PRIVATE CONTRACT</b>		
SHEET <b>2</b>	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	2 SHEETS
GRADING PLANS FOR:		
CALIFORNIA COORDINATE INDEX: 226-1809		
Approved: DOUGLAS M. ISBELL County Engineer	Engineer of work: MARK A. FARRINGTON, P.E.	
By:	Grading Permit No. <b>L-XXXXX</b>	
Date:		

FILE NO.

# ATTACHMENT C

## RELEVANT MONITORING DATA

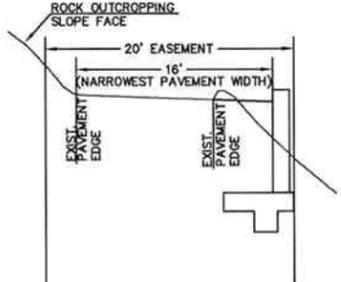
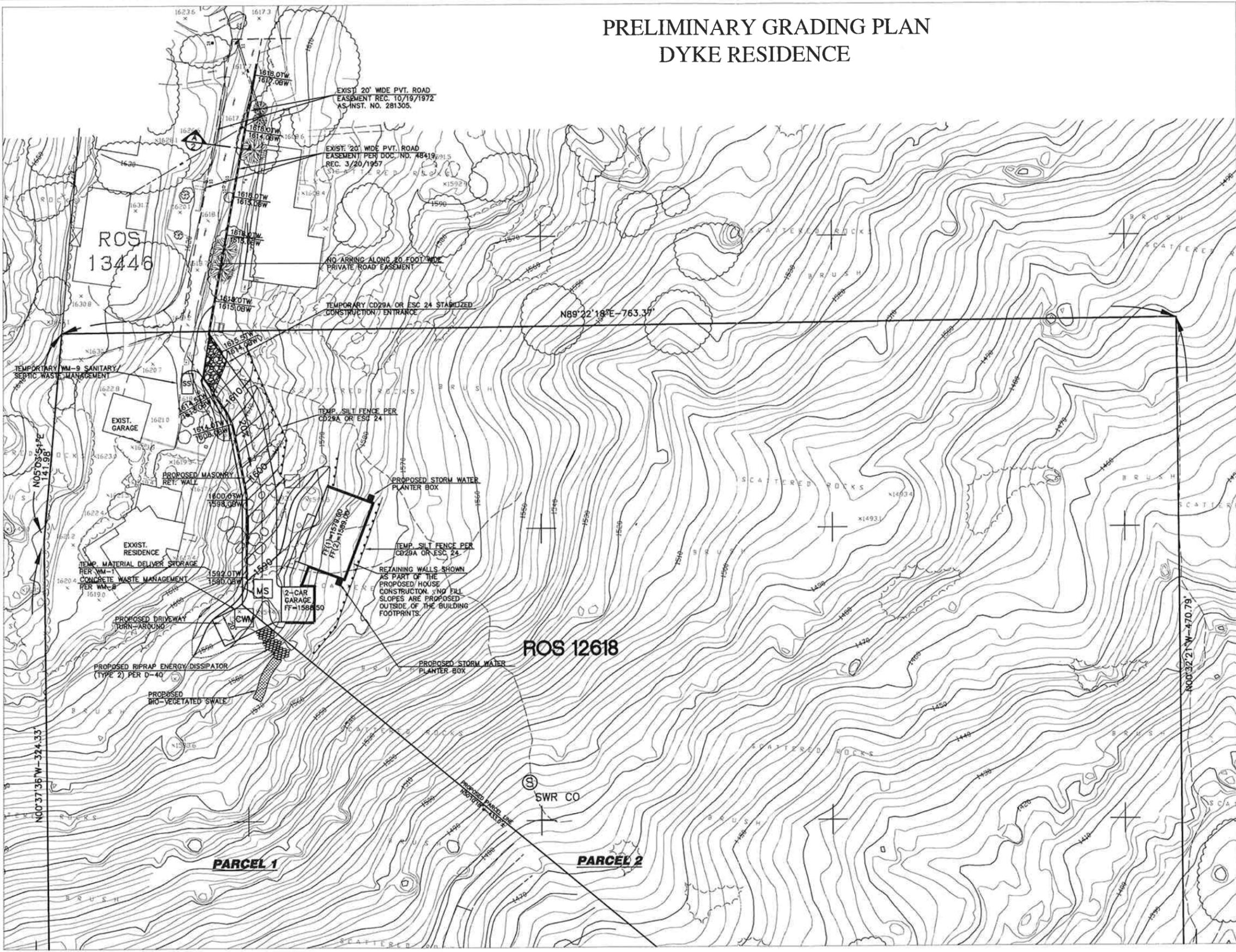
*(NOTE: PROVIDE RELEVANT WATER QUALITY MONITORING DATA IF AVAILABLE.)*

NOT APPLICABLE

# **ATTACHMENT D**

## **LID AND TREATMENT BMP LOCATION MAP**

# PRELIMINARY GRADING PLAN DYKE RESIDENCE



**SECTION A-A**  
NOT TO SCALE  
NARROWEST OFFSITE PROPOSED PAVEMENT ACCESS WIDTH

**GRADING DATA:**  
 CUT: 475± C.Y.  
 FILL: 50± C.Y.  
 EXPORT: 425± C.Y.  
 MAXIMUM HEIGHT OF CUT SLOPE: 5 FEET  
 NO FILL SLOPES PROPOSED; FILL UNDER STRUCTURES  
 MAXIMUM RETAINING WALL HEIGHT: 6 FEET



<b>PRIVATE CONTRACT</b>		
SHEET <b>2</b>	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	2 SHEETS
GRADING PLANS FOR:		
CALIFORNIA COORDINATE INDEX: 226-1809		
Approved: DOUGLAS M. ISBELL County Engineer	Engineer of work: MARK A. FARRINGTON, P.E.	
By:	Grading Permit No. <b>L-XXXXX</b>	
Date:		

FILE NO.

11/2003-177/TPM.DWG

# ATTACHMENT E

## TREATMENT BMP DATASHEET

*(NOTE: POSSIBLE SOURCE FOR DATASHEETS CAN BE FOUND AT  
[WWW.CABMPHANDBOOKS.COM](http://WWW.CABMPHANDBOOKS.COM). INCLUDE ENGINEERING CALCULATIONS FOR SIZING  
THE TREATMENT BMP.)*

NOT APPLICABLE

**ATTACHMENT F**

**OPERATION AND MAINTENANCE PROGRAM FOR  
TREATMENT BMPS**

NOT APPLICABLE

**ATTACHMENT G**

**FISCAL RESOURCES**

NOT APPLICABLE

# ATTACHMENT H

## CERTIFICATION SHEET

This Stormwater Management Plan has been prepared under the direction of the following Registered Civil Engineer. The Registered Civil Engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

Mark A. Farrington

9/7/08

Date



**ATTACHMENT I**

**ADDENDUM**

Not APPLICABLE