

PRIORITY DEVELOPMENT PROJECT (PDP) STORM WATER QUALITY MANAGEMENT PLAN (SWQMP) FOR

SUNROAD CENTRUM 6 VTM No. 2003387/ PDP No. 2003388 PTS No. 565879

ENGINEER OF WORK:



Bryan T. Hill, R.C.E. 69339 Provide Wet Signature and Stamp Above Line

PREPARED FOR: SUNROAD ENTERPRISES 4445 EASTGATE MALL, SUITE 400 SAN DIEGO, CA 92121 (858)362-8500

PREPARED BY:



STEVENS CRESTO ENGINEERING, INC. 9665 CHESAPEAKE DRIVE, SUITE 200 SAN DIEGO, CA 92123 (858)694-5660

> **DATE:** May 21, 2018

Approved by: City of San Diego

Date

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ACRONYMS

APN ASBS	Assessor's Parcel Number Area of Special Biological Significance
BMP	Best Management Practice
CEQA	California Environmental Quality Act
CGP	Construction General Permit
DCV	Design Capture Volume
DMA	Drainage Management Areas
ESA	Environmentally Sensitive Area
GLU	Geomorphic Landscape Unit
GW	Ground Water
HMP	Hydromodification Management Plan
HSG	Hydrologic Soil Group
HU	Harvest and Use
INF	Infiltration
LID	Low Impact Development
LUP	Linear Underground/Overhead Projects
MS4	Municipal Separate Storm Sewer System
N/A	Not Applicable
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
PDP	
PDP PE	Priority Development Project
PE POC	Professional Engineer Pollutant of Concern
SC	Source Control
SC SD	
	Site Design
SDRWQCB SIC	San Diego Regional Water Quality Control Board Standard Industrial Classification
	Stormwater Pollutant Protection Plan
SWPPP	
SWQMP	Storm Water Quality Management Plan
TMDL	Total Maximum Daily Load
WMAA	Watershed Management Area Analysis
WPCP	Water Pollution Control Program
WQIP	Water Quality Improvement Plan



CERTIFICATION PAGE

Project Name:SUNROAD CENTRUM 6Permit Application Number:VTM No.2003387/ PDP No. 2003388, PTS No.565879

I hereby declare that I am the Engineer in Responsible Charge of design of storm water BMPs for this project, and 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 the requirements of the Storm Water Standards, which is based on the requirements of SDRWQCB Order No. R9-2013-0001 as amended by R9-2015-0001 and R9-2015-0100 (MS4 Permit).

I have read and understand that the City Engineer has adopted minimum requirements for managing urban runoff, including storm water, from land development activities, as described in the Storm Water Standards. I certify that this PDP SWQMP has been completed to the best of my ability and accurately reflects the project being proposed and the applicable source control and site design BMPs proposed to minimize the potentially negative impacts of this project's land development activities on water quality. I understand and acknowledge that the plan check review of this PDP SWQMP by the City Engineer is confined to a review and does not relieve me, as the Engineer in Responsible Charge of design of storm water BMPs for this project, of my responsibilities for project design.

EXP 6/30/18

Engineer of Work's Signature, PE Number & Expiration Date

Bryan T. Hill, R.C.E. 69339 Print Name

STEVENS CRESTO ENGINEERING, INC. Company

May 21, 2018

Date



SUBMITTAL RECORD

Use this Table to keep a record of submittals of this PDP SWQMP. Each time the PDP SWQMP is re-submitted, provide the date and status of the project. In last column indicate changes that have been made or indicate if response to plancheck comments is included. When applicable, insert response to plancheck comments.

Submittal Number	Date	Project Status	Changes
1	7/28/17	 ● Preliminary Design/Planning/CEQA ● Final Design 	Initial Submittal
2	03/02/18	 Preliminary Design/Planning/CEQA Final Design 	Addressing minor review comments
3	03/30/18	 Preliminary Design/Planning/CEQA Final Design 	Addressing minor review comments
4	5/21/18	 Preliminary Design/Planning/CEQA Final Design 	Addressing minor review comments

PROJECT VICINITY MAP

Project Name:SUNROAD CENTRUM 6Permit Application Number:VTM No.2003387/ PDP No. 2003388, Project No.565879





City of San Diego **Development Services** 1222 First Ave., MS-302 San Diego, CA 92101 (619) 446-5000

	FORM
Storm Water Requirements	DS-56
Applicability Checklist	OCTOBER 201

S-560 **CTOBER 2016**

Project Address: SE Corner of Lightwave Ave and Kearny Villa Rd, San Diego, CA 92123 Project Number (for City Use Only):
SECTION 1. Construction Storm Water BMP Requirements:
All construction sites are required to implement construction BMPs in accordance with the performance standards in the <u>Storm Water Standards Manual</u> . Some sites are additionally required to obtain coverage under the State Construction General Permit (CGP) ¹ , which is administered by the State Water Resources Control Board.
For all projects complete PART A: If project is required to submit a SWPPP or WPCP, continue to PART B.
PART A: Determine Construction Phase Storm Water Requirements.
 Is the project subject to California's statewide General NPDES permit for Storm Water Discharges Associated with Construction Activities, also known as the State Construction General Permit (CGP)? (Typically projects with land disturbance greater than or equal to 1 acre.)
Yes; SWPPP required, skip questions 2-4 No; next question
2. Does the project propose construction or demolition activity, including but not limited to, clearing, grading, grubbing, excavation, or any other activity resulting in ground disturbance and contact with storm water runoff?
Yes; WPCP required, skip 3-4 No; next question
 Does the project propose routine maintenance to maintain original line and grade, hydraulic capacity, or origi- nal purpose of the facility? (Projects such as pipeline/utility replacement)
Yes; WPCP required, skip 4 No; next question
4. Does the project only include the following Permit types listed below?
 Electrical Permit, Fire Alarm Permit, Fire Sprinkler Permit, Plumbing Permit, Sign Permit, Mechanical Permit, Spa Permit.
 Individual Right of Way Permits that exclusively include only ONE of the following activities: water service, sewer lateral, or utility service.
 Right of Way Permits with a project footprint less than 150 linear feet that exclusively include only ONE of the following activities: curb ramp, sidewalk and driveway apron replacement, pot holing, curb and gutter replacement, and retaining wall encroachments.
Yes; no document required
Check one of the boxes below, and continue to PART B:
If you checked "Yes" for question 1, a SWPPP is REQUIRED. Continue to PART B
If you checked "No" for question 1, and checked "Yes" for question 2 or 3, a WPCP is REQUIRED. If the project proposes less than 5,000 square feet of ground disturbance AND has less than a 5-foot elevation change over the entire project area, a Minor WPCP may be required instead. Continue to PART B.
If you checked "No" for all questions 1-3, and checked "Yes" for question 4 PART B does not apply and no document is required. Continue to Section 2.
 More information on the City's construction BMP requirements as well as CGP requirements can be found at: www.sandiego.gov/stormwater/regulations/index.shtml
Printed on recycled paper. Visit our web site at www.sandiego.gov/development-services . Upon request, this information is available in alternative formats for persons with disabilities.

DS-560 (10-16)

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PART B: Determine Construction Site Priority

This prioritization must be completed within this form, noted on the plans, and included in the SWPPP or WPCP. The city reserves the right to adjust the priority of projects both before and after construction. Construction projects are assigned an inspection frequency based on if the project has a "high threat to water quality." The City has aligned the local definition of "high threat to water quality" to the risk determination approach of the State Construction General Permit (CGP). The CGP determines risk level based on project specific sediment risk and receiving water risk. Additional inspection is required for projects within the Areas of Special Biological Significance (ASBS) watershed. **NOTE:** The construction priority does **NOT** change construction BMP requirements that apply to projects; rather, it determines the frequency of inspections that will be conducted by city staff.

Cor	nplete P	ART B and continued to Section 2	
1.		ASBS	
		a. Projects located in the ASBS watershed.	
2.		High Priority	
		a. Projects 1 acre or more determined to be Risk Level 2 or Risk Level 3 per the Cons General Permit and not located in the ASBS watershed.	struction
		b. Projects 1 acre or more determined to be LUP Type 2 or LUP Type 3 per the Consi General Permit and not located in the ASBS watershed.	truction
3.	X	Medium Priority	
		a. Projects 1 acre or more but not subject to an ASBS or high priority designation.	
		b. Projects determined to be Risk Level 1 or LUP Type 1 per the Construction Generation for the ASBS watershed.	al Permit and
4.		Low Priority	
		 Projects requiring a Water Pollution Control Plan but not subject to ASBS, high, or priority designation. 	medium
SE	CTION 2.	Permanent Storm Water BMP Requirements.	
Ad	ditional in	formation for determining the requirements is found in the <u>Storm Water Standards N</u>	<u>Ianual</u> .
Pro vel	jects that	termine if Not Subject to Permanent Storm Water Requirements. are considered maintenance, or otherwise not categorized as "new development pro rojects" according to the <u>Storm Water Standards Manual</u> are not subject to Permaner	
lf ' ne	ʻyes" is c nt Storn	hecked for any number in Part C, proceed to Part F and check "Not Subje Water BMP Requirements".	ect to Perma-
lf '	'no" is ch	ecked for all of the numbers in Part C continue to Part D.	
1.	Does the existing	e project only include interior remodels and/or is the project entirely within an enclosed structure and does not have the potential to contact storm water?	Yes XNo
2.	Does the creating	e project only include the construction of overhead or underground utilities without new impervious surfaces?	Yes 🛛 No
3.	roof or e lots or e	e project fall under routine maintenance? Examples include, but are not limited to: exterior structure surface replacement, resurfacing or reconfiguring surface parking xisting roadways without expanding the impervious footprint, and routine nent of damaged pavement (grinding, overlay, and pothole repair).	Yes 🛛 No

City of San Diego • Development Services • Storm Water Requirements Applicability Checklist Pa	age 3 of 4
PART D: PDP Exempt Requirements.	
PDP Exempt projects are required to implement site design and source control E	3MPs.
If "yes" was checked for any questions in Part D, continue to Part F and check th "PDP Exempt."	e box labeled
If "no" was checked for all questions in Part D, continue to Part E.	
1. Does the project ONLY include new or retrofit sidewalks, bicycle lanes, or trails that	:
 Are designed and constructed to direct storm water runoff to adjacent vegetated non-erodible permeable areas? Or; 	Concel for all shows . See 19 . Concerning of the
 Are designed and constructed to be hydraulically disconnected from paved street Are designed and constructed with permeable pavements or surfaces in accordan Green Streets guidance in the City's Storm Water Standards manual? 	
Yes; PDP exempt requirements apply	
Does the project ONLY include retrofitting or redeveloping existing paved alleys, streets or and constructed in accordance with the Green Streets guidance in the <u>City's Storm Water S</u>	roads designed Standards Manual?
Yes; PDP exempt requirements apply X No; project not exempt.	
 PART E: Determine if Project is a Priority Development Project (PDP). Projects that match one of the definitions below are subject to additional requirements includ a Storm Water Quality Management Plan (SWQMP). If "yes" is checked for any number in PART E, continue to PART F and check the k ority Development Project". 	
If "no" is checked for every number in PART E, continue to PART F and check the "Standard Development Project".	box labeled
 New Development that creates 10,000 square feet or more of impervious surfaces collectively over the project site. This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land. 	Yes 🛛 No
 Redevelopment project that creates and/or replaces 5,000 square feet or more of impervious surfaces on an existing site of 10,000 square feet or more of impervious surfaces. This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land. 	⊠Yes □No
 New development or redevelopment of a restaurant. Facilities that sell prepared food and drinks for consumption, including stationary lunch counters and refreshment stands prepared foods and drinks for immediate consumption (SIC 5812), and where the land development creates and/or replace 5,000 square feet or more of impervious surface. 	ds selling Yes 🛛 No
4. New development or redevelopment on a hillside. The project creates and/or replaces 5,000 square feet or more of impervious surface (collectively over the project site) and where the development will grade on any natural slope that is twenty-five percent or greater.	s ere □Yes ⊠No
 New development or redevelopment of a parking lot that creates and/or replaces 5,000 square feet or more of impervious surface (collectively over the project site). 	Yes XNo
 New development or redevelopment of streets, roads, highways, freeways, and driveways. The project creates and/or replaces 5,000 square feet or more of impervious surface (collectively over the project site). 	⊠Yes □No

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7.	New development or redevelopment discharging directly to an Environmentally Sensitive Area. The project creates and/or replaces 2,500 square feet of impervious surface (collectively over project site), and discharges directly to an Environmentally Sensitive Area (ESA). "Discharging directly to" includes flow that is conveyed overland a distance of 200 feet or less from the project to the ESA, or conveyed in a pipe or open channel any distance as an isolated flow from the project to the ESA (i.e. not commingled with flows from adjacent lands).	Yes	× No
8.	New development or redevelopment projects of a retail gasoline outlet (RGO) that create and/or replaces 5,000 square feet of impervious surface. The development project meets the following criteria: (a) 5,000 square feet or more or (b) has a projected Average Daily Traffic (ADT) of 100 or more vehicles per day.	Yes	No
9.	New development or redevelopment projects of an automotive repair shops that creates and/or replaces 5,000 square feet or more of impervious surfaces. Development projects categorized in any one of Standard Industrial Classification (SIC) codes 5013, 5014, 5541, 7532-7534, or 7536-7539.	Yes	× No
10	Other Pollutant Generating Project. The project is not covered in the categories above, results in the disturbance of one or more acres of land and is expected to generate pollutants post construction, such as fertilizers and pesticides. This does not include projects creating less than 5,000 sf of impervious surface and where added landscaping does not require regular use of pesticides and fertilizers, such as slope stabilization using native plants. Calculation of the square footage of impervious surface need not include linear pathways that are for infreque vehicle use, such as emergency maintenance access or bicycle pedestrian use, if they are built with pervious surfaces of if they sheet flow to surrounding pervious surfaces.		X No
	RT F: Select the appropriate category based on the outcomes of PART C through PA	ART E.	
1.	The project is NOT SUBJECT TO PERMANENT STORM WATER REQUIREMENTS.		
2.	The project is a STANDARD DEVELOPMENT PROJECT . Site design and source control BMP requirements apply. See the <u>Storm Water Standards Manual</u> for guidance.		
3.	The project is PDP EXEMPT . Site design and source control BMP requirements apply. See the <u>Storm Water Standards Manual</u> for guidance.		
4.	The project is a PRIORITY DEVELOPMENT PROJECT . Site design, source control, and structural pollutant control BMP requirements apply. See the <u>Storm Water Standards Manual</u> for guidance on determining if project requires a hydromodification plan management		X
Na	aig Bachman Director of Construction me of Owner or Agent (<i>Please Print</i>) Title Title The The The The The The The The The The	Opera	ation

Applicability of Permaner	ni. Posi-Con	STELDIG RECTRE
Storm Wate:		
(Storm Water Intake Form for all Develop		
Project Id	dentification	
Project Name: SUNROAD CENTRUM 6		
Permit Application Number: VTM No. 2003387, Pr		
	of Requiremen	
The purpose of this form is to identify permanent, p This form serves as a short <u>summary</u> of applicable req will serve as the backup for the determination of requ	uirements, in so irements.	ome cases referencing separate forms that
Answer each step below, starting with Step 1 and pro Refer to Part 1 of Storm Water Standards sections an		
Step	Answer	Progression
Step 1: Is the project a "development project"? See Section 1.3 of the BMP Design Manual (Part 1 of	⊙ Yes	Go to Step 2.
Storm Water Standards) for guidance.	O No	Stop. Permanent BMP requirements do not apply. No SWQMP will be required. Provide discussion below.
Discussion / justification if the project is <u>not</u> a "dever remodels within an existing building): Click or tap here to enter text.	iopinent projec	i (eg, ne project metado <u>om</u> , metad
remodels within an existing building):	iopinent projec	e (og, no project mendeo <u>om</u> j meno
remodels within an existing building): Click or tap here to enter text. Step 2: Is the project a Standard Project, Priority Development Project (PDP), or exception to PDP definitions?	0 Standard	Stop. Standard Project requirements apply.
remodels within an existing building): Click or tap here to enter text. Step 2: Is the project a Standard Project, Priority Development Project (PDP), or exception to PDP definitions? To answer this item, see Section 1.4 of the BMP	O Standard Project	Stop.
remodels within an existing building): Click or tap here to enter text. Step 2: Is the project a Standard Project, Priority Development Project (PDP), or exception to PDP definitions? To answer this item, see Section 1.4 of the BMP Design Manual (Part 1 of Storm Water Standards) <u>in its entirety</u> for guidance, AND complete Storm	0 Standard	Stop. Standard Project requirements apply. PDP requirements apply, including PDP SWQMP.
remodels within an existing building): Click or tap here to enter text. Step 2: Is the project a Standard Project, Priority Development Project (PDP), or exception to PDP definitions? To answer this item, see Section 1.4 of the BMP Design Manual (Part 1 of Storm Water Standards)	O Standard Project O PDP O PDP Exempt	Stop. Standard Project requirements apply. PDP requirements apply, including PDP SWQMP. Go to Step 3. Stop. Standard Project requirements apply. Provide discussion and list any additional requirements below.

-

Form I	-1 Page 2	
Step	Answer	Progression
Step 3. Is the project subject to earlier PDP requirements due to a prior lawful approval? See Section 1.10 of the BMP Design Manual (Part 1 of Storm Water Standards) for guidance.	O Yes	Consult the City Engineer to determine requirements. Provide discussion and identify requirements below. Go to Step 4.
	• No	BMP Design Manual PDP requirements apply. Go to Step 4.
Discussion / justification of prior lawful approval, an <u>approval does not apply</u>): Click or tap here to enter text.	id identify requi	rements (<u>not required if prior lawful</u>
Step 4. Do hydromodification control requirements apply? See Section 1.6 of the BMP Design Manual (Part 1 of Storm Water Standards) for guidance.	⊙ Yes	PDP structural BMPs required for pollutant control (Chapter 5) and hydromodification control (Chapter 6). Go to Step 5.
	O No	Stop. PDP structural BMPs required for pollutant control (Chapter 5) only. Provide brief discussion of exemption to hydromodification control below.
Discussion / justification if hydromodification contro Click or tap here to enter text.	oi requirements	
Step 5. Does protection of critical coarse sediment yield areas apply? See Section 6.2 of the BMP Design Manual (Part 1 of Storm Water Standards) for guidance.	Ö Yes	Management measures required for protection of critical coarse sediment yield areas (Chapter 6.2). Stop.
	🛈 No	Management measures not required for protection of critical coarse sediment yield areas. Provide brief discussion below. Stop.
Discussion / justification if protection of critical coar According to map in Appendix H: Guidance for Yield Areas, project is not located in a Potential O See Exhibit 2b in Attachment 2.	or Investigatio	n Potential Critical Coarse Sedimen

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	rmation Checklist For PDPs Form I-3B
Project Name	SUNROAD CENTRUM 6
Project Address	KEARNY VILLA RD AND SPECTRUM CENTER BLVD, SAN DIEGO, CA 92123
Assessor's Parcel Number(s) (APN(s))	369-230-01, 02, 03, 04 & 14
Permit Application Number	VTM No. 2003387/ PDP No. 2003388
Project Watershed	Select One: O San Dieguito River O Penasquitos O Mission Bay O San Diego River O San Diego Bay O Tijuana River
Hydrologic subarea name with Numeric Identifier up to two decimal paces (9XX.XX)	TECOLOTE 906.50
Project Area (total area of Assessor's Parcel(s) associated with the project or total area of the right-of-way)	8.57 Acres ([SQFT] Square Feet)
Area to be disturbed by the project (Project Footprint)	5.61 Acres (244,525 Square Feet)
(rioject Pooprint) Project Proposed Impervious Area (subset of Project Footprint)	5.14 Acres (224,107 Square Feet)
Project Proposed Pervious Area (subset of Project Footprint)	0.47 Acres (20,418 Square Feet)
Note: Proposed Impervious Area + Proposed Perv. This may be less than the Project Area.	ious Area = Area to be Disturbed by the Project.
The proposed increase or decrease in impervious area in the proposed condition as compared to the pre-project condition.	Minimal change: Redevelopment of highly impervious General Dynamics facility. %

Form I-3B Page 2 of 11
Description of Existing Site Condition and Drainage Patterns
Current Status of the Site (select all that apply): Existing development
⊠ Previously graded but not built out
□ Agricultural or other non-impervious use
□ Vacant, undeveloped/natural
Description / Additional Information:
The project site was previously developed as a highly impervious General Dynamics facility. The site was mass graded, and redevelopment began in late 2006 with the construction of the first Centrum building. Sunroad Centrumplace 6 is the next phase of the multi-phased master planned development which has been under construction since that time.
Existing Land Cover Includes (select all that apply):
⊠ Vegetative Cover
□ Non-Vegetated Pervious Areas
🗵 Impervious Areas
Description / Additional Information:
The project site was mass graded in anticipation of development. Portions of the hardscape and drive
lanes constructed with the adjacent Centrum building will be removed and replaced with the proposed
project.
Underlying Soil belongs to Hydrologic Soil Group (select all that apply):
\Box NRCS Type B
\square NRCS Type C
\boxtimes NRCS Type D
Approximate Depth to Groundwater (GW):
○ GW Depth < 5 feet
○ 5 feet < GW Depth < 10 feet
○ 10 feet < GW Depth < 20 feet
● GW Depth > 20 feet
Existing Natural Hydrologic Features (select all that apply):
□ Watercourses
□ Seeps
□ Springs □ Wetlands
⊠ None
Description / Additional Information:
Site has been graded in anticipation of development; see description above.



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Description of Existing Site Topography and Drainage:

How is storm water runoff conveyed from the site? At a minimum, this description should answer:

- 1. Whether existing drainage conveyance is natural or urban;
- 2. If runoff from offsite is conveyed through the site? If yes, quantification of all offsite drainage areas, design flows, and locations where offsite flows enter the project site and summarize how such flows are conveyed through the site;
- 3. Provide details regarding existing project site drainage conveyance network, including storm drains, concrete channels, swales, detention facilities, storm water treatment facilities, and natural and constructed channels;
- 4. Identify all discharge locations from the existing project along with a summary of the conveyance system size and capacity for each of the discharge locations. Provide summary of the pre-project drainage areas and design flows to each of the existing runoff discharge locations.

Description / Additional Information:

In the existing condition, the site's stormwater is captured by onsite drainage swales and storm drains, making the existing drainage conveyance urban. The project does not receive any off site run-on. Minor flows from the existing Centrum development will, however, comingle with Sunroad Centrum 6 runoff. Design of the project attempts to minimize the comingling of flows. Storm water runoff from the project site is collected in private drainage facilities for conveyance to public storm drain systems in Lightwave Avenue and Spectrum Center Boulevard. The proposed Sunroad Centrum 6 project is tributary to storm drain systems constructed per City of San Diego DWG. 34009-D and supported by the "Drainage Study for Centrum 12," dated 06/27/06. The Sunroad Centrum 6 project conforms to the calculations and conclusions presented in the approved Centrum 12 study. See the Preliminary Drainage Study for Sunroad Centrum 6 for additional detail; the study is provided for reference in Attachment 5.

Description of Proposed Site Development and Drainage Patterns Project Description / Proposed Land Use and/or Activities: Sunroad Centrum 6 proposes a high density residential podium structure with subterranean parking, and a drivelane, adjacent to the existing Sunroad Centrum Building located within San Diego Spectrum.
Sunroad Centrum 6 proposes a high density residential podium structure with subterranean parking, and a drivelane, adjacent to the existing Sunroad Centrum Building located within San Diego
and a drivelane, adjacent to the existing Sunroad Centrum Building located within San Diego
Spectrum.
List/describe proposed impervious features of the project (e.g., buildings, roadways, parking lots, courtyards,
athletic courts, other impervious features):
Sunroad Centrum 6 proposes a high density residential podium structure, with associated walkways,
patios, and a drivelane/firelane with adjacent surface parking (approximately 10 stalls).
•
List/describe proposed pervious features of the project (e.g., landscape areas):
Landscape areas and biofiltration planters
Does the project include grading and changes to site topography?
• Yes
Ö No
Description / Additional Information:
The site will be fine graded for the proposed development.
The one will be the graded for the proposed development.

Form I-3B Page 5 of 11

Does the project include changes to site drainage (e.g., installation of new storm water conveyance systems)? • Yes

O No

If yes, provide details regarding the proposed project site drainage conveyance network, including storm drains, concrete channels, swales, detention facilities, storm water treatment facilities, natural and constructed channels, and the method for conveying offsite flows through or around the proposed project site. Identify all discharge locations from the proposed project site along with a summary of the conveyance system size and capacity for each of the discharge locations. Provide a summary of pre and post-project drainage areas and design flows to each of the runoff discharge locations. Reference the drainage study for detailed calculations.

Description / Additional Information:

The majority of the proposed residential podium structure will discharge runoff directly to one of three proposed biofiltration planters. The biofiltration planters will provide both water quality and hydromodification mitigation. Approximatley 1.1 acres of the eastern portion of the residential podium structure will discharge to proprietary biofiltration systems P-BF2 and P-BF3 for water quality mitigation. Hydromodification mitigation for this area will be provided through 1:1 mitigation of an existing parking structure located immediatley to the south. A biofiltration planter (BF-2) is proposed to provide both water quality mitigation and hydromodification mitigation for the existing structure.

Runoff from the proposed drive lane and adjacent hardscape will be conveyed via overland flow to a proprietary biofiltration system P-BF1, for water quality mitigation. From there, storm drain conveys treated flows to an underground detention system for hydromodification mitigation.

Discharge from the biofiltration planters and underground detention system will be collected in private storm drain for conveyance to public storm drain in Lightwave Avenue and Spectrum Center Boulevard. The proposed Sunroad Centrum 6 project is tributary to storm drain systems constructed per City of San Diego DWG. 34009-D and supported by the "Drainage Study for Centrum 12," dated 06/27/06. The Sunroad Centrum 6 project conforms to the calculations and conclusions presented in the approved Centrum 12 study. See the Preliminary Drainage Study for Sunroad Centrum 6 for additional detail; the study is provided for reference in Attachment 5.

Form I-3B Page 6 of <u>11</u>
Identify whether any of the following features, activities, and/or pollutant source areas will be present (select
all that apply):
I On-site storm drain inlets
Interior floor drains and elevator shaft sump pumps
Interior parking garages
🖾 Need for future indoor & structural pest control
🛛 Landscape/Outdoor Pesticide Use
□ Pools, spas, ponds, decorative fountains, and other water features
\Box Food service
□ Refuse areas
□ Industrial processes
Outdoor storage of equipment or materials
□ Vehicle and Equipment Cleaning
U Vehicle/Equipment Repair and Maintenance
□ Fuel Dispensing Areas
□ Loading Docks
⊠ Fire Sprinkler Test Water
□ Miscellaneous Drain or Wash Water
I Plazas, sidewalks, and parking lots
□ Large Trash Generating Facilities
□ Animal Facilities
□ Plant Nurseries and Garden Centers
□ Automotive-related Uses
Description / Additional Information:
Click or tap here to enter text.
Shen of up here to enter tent.

Form I-3B Page 7 of 11
Identification and Narrative of Receiving Water
Narrative describing flow path from discharge location(s), through urban storm conveyance system, to receiving creeks, rivers, and lagoons and ultimate discharge location to Pacific Ocean (or bay, lagoon, lake or reservoir, as applicable)
Stormwater is collected onsite by a private storm drain system, then enters the City of San Diego public storm drain system offsite in the adjacent streets. The public storm drain system conveys the runoff west across SR-163, then northwest until discharging into Rose Canyon where flows enter Rose Creek and are conveyed in the southwest direction to Mission Bay, and ultimately discharging to the Pacific Ocean.
Provide a summary of all beneficial uses of receiving waters downstream of the project discharge locations.
For inland surface and ground water, the beneficial uses are municipal and domestic supply, agricultural supply, industrial service supply, contact water recreation, non-contact water recreation, warm freshwater habitat, cold freshwater habitat, wildlife habitat, and rare, threatened, or endangered.
Identify all ASBS (areas of special biological significance) receiving waters downstream of the project discharge locations. N/A
Provide distance from project outfall location to impaired or sensitive receiving waters. 5.3 miles to Rose Creek
Sumarize information regarding the proximity of the permanent, post-construction storm water BMPs to the City's Multi-Habitat Planning Area and environmentally sensitive lands
The proximity of the permanent, post-construction storm water BMPs to the City of San Diego's Multi-Habitat Planning Area is approximately 0.5 miles.

	Form I-3B Page 8 of 11	
Identifica	ation of Receiving Water Pollutants of	f Concern
(or bay, lagoon, lake or reservoir, a	es within the path of storm water from s applicable), identify the pollutant(s), it Priority Pollutants from the WQIP	/stressor(s) causing impairment, and
303(d) Impaired Water Body	Pollutant(s)/Stressor(s)	TMDLs/ WQIP Highest Priority Pollutant
Rose Creek	Selenium and Toxicity	Est. TMDL Completion: 2021
Mission Bay	Eutrophic and Lead	Est. TMDL Completion: 2019
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I	dentification of Project Site Pollutant	s*

*Identification of project site pollutants is only required if flow-thru treatment BMPs are implemented onsite in lieu of retention or biofiltration BMPs (note the project must also participate in an alternative compliance program unless prior lawful approval to meet earlier PDP requirements is demonstrated)

Identify pollutants anticipated from the project site based on all proposed use(s) of the site (see BMP Design Manual (Part 1 of Storm Water Standards) Appendix B.6):

Pollutant	Not Applicable to the Project Site	Anticipated from the Project Site	Also a Receiving Water Pollutant of Concern
Sediment	0	۲	0
Nutrients	0	0	۲
Heavy Metals	0	0	٥
Organic Compounds	0	۲	0
Trash & Debris	0	۲	0
Oxygen Demanding Substances	0	۲	0
Oil & Grease	0	۲	0
Bacteria & Viruses	0	۲	0
Pesticides	0	۲	0

PDP SWQMP Template Date: January, 2016 PDP SWQMP Submittal Date: May 21, 2018

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Hydromodification Management Requirements
Do hydromodification management requirements apply (see Section 1.6 of the BMP Design Manual)?
• Yes, hydromodification management flow control structural BMPs required. • No, the project will discharge runoff directly to existing underground storm drains discharging directly to
water storage reservoirs, lakes, enclosed embayments, or the Pacific Ocean.
• No, the project will discharge runoff directly to conveyance channels whose bed and bank are concrete-
lined all the way from the point of discharge to water storage reservoirs, lakes, enclosed embayments, or
the Pacific Ocean.
• No, the project will discharge runoff directly to an area identified as appropriate for an exemption by the
WMAA for the watershed in which the project resides.
Description / Additional Information (to be provided if a 'No' answer has been selected above):
Click or tap here to enter text.
Critical Coarse Sediment Yield Areas*
*This Section only required if hydromodification management requirements apply
Based on Section 6.2 and Appendix H does CCSYA exist on the project footprint or in the upstream area
draining through the project footprint? O Yes
 Yes No, No critical coarse sediment yield areas to be protected based on WMAA maps
= 100, 100 childar coarse sediment yield areas to be protected based on wiviely maps
Discussion / Additional Information:
See Exhibit 2b in Attachment 2

Form I-3B Page 10 of 11
Flow Control for Post-Project Runoff*
*This Section only required if hydromodification management requirements apply
List and describe point(s) of compliance (POCs) for flow control for hydromodification management (see
Section 6.3.1). For each POC, provide a POC identification name or number correlating to the project's HMP
Exhibit and a receiving channel identification name or number correlating to the project's HMP Exhibit.
The first point of compliance, POC 1, is located at the downstream end of biofiltration facility BF 1,
which serves as both a pollutant and flow control facility. POC 2 is located at the downstream end of
biofiltration facility BF 2, which serves as both a pollutant and flow control facility. POC 3 is located
at the downstream end of biofiltration facility BF 3, which serves as both a pollutant and flow control
facility. POC 4 is located at the downstream end of biofiltration facility BF 4, which serves as both a
pollutant and flow control facility. The fifth point of compliance, POC 5, is downstream of P-BF 1
and ST 1 at the outlet of the underground detention system.
Has a geomorphic assessment been performed for the receiving channel(s)?
• No, the low flow threshold is 0.1Q2 (default low flow threshold)
• Yes, the result is the low flow threshold is 0.1Q2
• Yes, the result is the low flow threshold is 0.3Q2
• Yes, the result is the low flow threshold is 0.5Q2
• Tes, the result is the low now intesticid is 0.502
If a comparative according to the been performed provide title date and property
If a geomorphic assessment has been performed, provide title, date, and preparer: HYDROMODIFICATION SCREENING FOR SUNROAD CENTRUM 2
May 29, 2015, by Chang Consultants: The study, approved with the SCR for Centrumplace, is provided
for reference in Attachment 2
Discussion / Additional Information: (optional)
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Form I-3B Page 11 of 11

Other Site Requirements and Constraints

When applicable, list other site requirements or constraints that will influence storm water management design, such as zoning requirements including setbacks and open space, or local codes governing minimum street width, sidewalk construction, allowable pavement types, and drainage requirements.

Setbacks, fire lane requirements, access/sidewalk requirements, minimum tree requirements, and existing improvements to remain are among the site constraints impacting storm water management design. The drive lane and adjacent walkways function as a firelane, limiting locations where biofiltration planters can be placed. Additionally, the site has minimum sidewalk width requirements and tree planting requirements. The biofiltration planters are located in the remaining planter areas.

Optional Additional Information or Continuation of Previous Sections As Needed

This space provided for additional information or continuation of information from previous sections as needed.

1:1 mitigation for a portion of the proposed high density residential podium structure (POC 2): the project proposes to provide 1:1 hydromodification mitigation for a portion of the proposed structure and sidewalk by mitigating runoff generated by an existing parking structure at the northwest corner of Spectrum Center Blvd and Sunroad Centrum Lane. As previously discussed, Sunroad Centrum 6 is part of a phased Master Planned development and, as such, the project is reliant upon utility infrastructure and drive lanes constructed in prior phases. Master site planning began approximately 20 years ago and has been under construction for nearly 10, when the first Centrum building was permitted. The Master Plan of the site has always been a highly impervious development that never anticipated the need for onsite detention, including hydromodification. As a result, Sunroad Centrum 6 is a highly constrained project which requires creative implementation of BMPs to achieve full hydromodification mitigation of the proposed development. The high density podium structure, proposed in a location consistent with the long term vision and planning of the site, has limited opportunity to provide that mitigation. The high density podium structure is pinned on all sides by Lightwave Avenue, Kearny Villa Road, private drive lanes, and the existing Centrum building. As an alternative, Sunroad Centrum 6 proposes mitigation of an area equivalent to a portion of the high density podium. Sunroad Centrum 6 proposes to retrofit the existing parking structure onsite to provide hydromodification mitigation for it. Since hydromodification mitigation is a land use, and not routing based, calculation, and runoff from both DMAs comingle in a storm drain system prior to discharge to a natural channel (see exhibit that follows), treating runoff from the existing parking structure adequately addresses hydromodification mitigation compliance for a portion of the proposed podium building.

See the attached exhibit showing the routing and confluence of the downstream storm drain systems, to support the use of 1:1 mitigation for hydromodification mitigation of the project.





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	SCHEDULE SCHEDULE SCHEDULE	P (TYPE A) DE	R RSD SDC-110 C	G-139/A) AND	SDG-137	
	š		R RSD SDG-130, Si ROSS GUTTER	DG-132(A) AND	SDG-137	
	5 CURB RAM	NTEGRAL TO C	ROSS GUTTER	DG—132(A) AND	SDG-137	
	5 CURB RAM 6 6" CURB II 7 CONCRETE 8 4" P.C.C. I	NTEGRAL TO CO CROSS GUTTER	Ross gutter R Per G-12 PUS SIDEWALK PER F	RSD G-7, G-9	AND G-11.	
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PRIVATE UTILITY CONSTRUCTION NOTES

1 P.O.C. FOR ROOF DRAIN - SEE PLUMBING PLANS FOR CONTINUATION.

- (2) PRIVATE STORM DRAIN CLEANOUT PER RSD S-3. TYPE B.
- (3) STUB OUT FOR FUTURE CONNECTION.
- (4) PROVIDE 6" STUB FOR ROOF DRAIN CONNECTION.
- 5 PRECAST CONCRETE CATCH BASIN PER DETAIL C (DB1212 U.N.O.) USE TYPE 1 OUTLET UNLESS NOTED OTHERWISE.
- 6 P.O.C. FOR BUILDING SEWER (5' OUTSIDE BUILDING ENVELOPE) SEE PLUMBING PLANS FOR CONTINUATION.
- (7) PRIVATE PLASTIC CATCH BASIN, SEE DETAIL (H)
- (8) PRIVATE SEWER AND WATER BY SEPARATE PERMIT. SEE PRIVATE SITE UTILITY PLAN WITHIN ARCHITECTURAL SET (BLDG, DEPT. PROJ. NO. PTS 84081). SEE PRIVATE WATER, SEWER AND FIRE SERVICE NOTE AT BOTTOM (THIS SHEET).

Ω	S	TORM	DRAIN DA	ATA (PVT.)
NO.	LENGTH	SLOPE	SIZE	REMARKS
50	14.75'	1.00%	12"	HDPE
51	52.25'	1.00%	18"	HDPE
52	4.25'	1.00%	18"	HDPE
53	172.88'	1.00%	18"	HDPE
54	21.56'	1.00%	18"	HDPE
55	14.75'	1.00%	12"	HDPE
56	60.77'	1.00%	18"	HDPE
57	13.63'	1.00%	24"	HDPE
59	50.00'	1.00%	24*	HDPE
60	4.00'	0.50%	30"	HDPE
61	71.60'	0.50%	30"	HDPE, R=795.00'
62				
63				
64				
65				

-ALL PVC STORM DRAIN PIPE SHALL CONFORM TO SDR-35. -PIPE LENGTHS SHOWN ARE TO INSIDE FACE OF STRUCTURE FOR CAST-IN-PLACE STRUCTURES AND TO CENTER OF PRECAST CATCH BASINS.

-HDPE PIPE SHALL HAVE WATER-TIGHT JOINTS.

-ALL BEDDING FOR STORM DRAIN PIPE SHALL BE PER RSD S-4 (TYPE C).



BENCH MARK BRASS PLUG IN TOP OF CURB INLET AT THE NE CORNER OF KEARNY VILLA ROAD AND BALBOA AVENUE ELEV: 414.797 M.S.L






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Source Control BMP Checklist			
for All Development Projects		Form I-	4
Source Control BMPs			
All development projects must implement source control BMPs SC-1 thro feasible. See Chapter 4 and Appendix E of the BMP Design Manual (Part 1 of information to implement source control BMPs shown in this checklist.			
Answer each category below pursuant to the following.			
• "Yes" means the project will implement the source control BMP as Appendix E of the BMP Design Manual. Discussion / justification is	not require	d.	
 "No" means the BMP is applicable to the project but it is not feasily justification must be provided. 	ible to impl	lement. D	iscussion /
• "N/A" means the BMP is not applicable at the project site because feature that is addressed by the BMP (e.g., the project has no o Discussion / justification may be provided.	the project utdoor mat	does not erials stor	include the cage areas).
Source Control Requirement		Applied)
SC-1 Prevention of Illicit Discharges into the MS4	⊙ Yes	0 _{No}	O _{N/A}
Discussion / justification if SC-1 not implemented:	L		
Click or tap here to enter text.			
•			
SC-2 Storm Drain Stenciling or Signage	• Yes	ONo	O _{N/A}
Discussion / justification if SC-2 not implemented:			
Click or tap here to enter text.			
SC-3 Protect Outdoor Materials Storage Areas from Rainfall, Run-On,	OYes	O _{No}	⊙ _{N/A}
Runoff, and Wind Dispersal	~ 105	- 110	*** 1N/11
Discussion / justification if SC-3 not implemented:			
Click or tap here to enter text.			
SC-4 Protect Materials Stored in Outdoor Work Areas from Rainfall, Run-	OYes	ONo	ON /A
On, Runoff, and Wind Dispersal	✓ Yes	VINO	⊙ _{N/A}
Discussion / justification if SC-4 not implemented:			
Click or tap here to enter text.			
SC 5 Drotort Treach Stormon Aroan From Dainfall Down On Down of a 1387. 1			
SC-5 Protect Trash Storage Areas from Rainfall, Run-On, Runoff, and Wind Dispersal	OYes	ONo	⊙ _{N/A}
Discussion / justification if SC-5 not implemented:	<u> </u>		
Click or tap here to enter text.			
1			

Form I-4 Page 2 of 2			
Source Control Requirement		Applied	
SC-6 Additional BMPs Based on Potential Sources of Runoff Pollutants (must answer for each source listed below)			
On-site storm drain inlets	⊙ Yes	O_{No}	O _{N/A}
Interior floor drains and elevator shaft sump pumps	• Yes	ONo	O _{N/A}
Interior parking garages	• Yes	ONo	O _{N/A}
Need for future indoor & structural pest control	• Yes	ONo	O _{N/A}
Landscape/Outdoor Pesticide Use	• Yes	ONo	O _{N/A}
Pools, spas, ponds, decorative fountains, and other water features	O Yes	ONo	⊙N/A
Food service	O Yes	ONo	⊙ N/A
Refuse areas	O Yes	ONo	⊙ N/A
Industrial processes	OYes	ONo	⊙ N/A
Outdoor storage of equipment or materials	O Yes	ONo	⊙ N/A
Vehicle/Equipment Repair and Maintenance	OYes	ONo	⊙ N/A
Fuel Dispensing Areas	OYes	ONo	⊙ N/A
Loading Docks	OYes	ONo	⊙ N/A
Fire Sprinkler Test Water	• Yes	ONo	O _{N/A}
Miscellaneous Drain or Wash Water	• Yes	ONo	O _{N/A}
Plazas, sidewalks, and parking lots	• Yes	ONo	O _{N/A}
SC-6A: Large Trash Generating Facilities	OYes	ONo	⊙ N/A
SC-6B: Animal Facilities	OYes	ONo	⊙ N/A
SC-6C: Plant Nurseries and Garden Centers	O Yes	ONo	⊙ N/A
SC-6D: Automotive-related Uses	O Yes	ONo	⊙ N/A

Discussion / justification if SC-6 not implemented. Clearly identify which sources of runoff pollutants are discussed. Justification must be provided for <u>all</u> "No" answers shown above. Click or tap here to enter text.

All development projects must implement site design DMDs CD 1 the CT		Form 1-:	
All development projects must implement site design BMPs SD-1 through SD-8 where applicable and feasible. See Chapter 4 and Appendix E of the BMP Design Manual (Part 1 of Storm Water Standards) for information to implement site design BMPs shown in this checklist.			
 Answer each category below pursuant to the following. "Yes" means the project will implement the site design BMP as described in Chapter 4 and/or Appendix E of the BMP Design Manual. Discussion / justification is not required. "No" means the BMP is applicable to the project but it is not feasible to implement. Discussion / justification must be provided. "N/A" means the BMP is not applicable at the project site because the project does not include the feature that is addressed by the BMP (e.g., the project site has no existing natural areas to conserve). Discussion / justification may be provided. 			
A site map with implemented site design BMPs must be included at the end o	f this check	list.	
Site Design Requirement		Applied?	
SD-1 Maintain Natural Draiange Pathways and Hydrologic Features	OYes	ONo	⊙ _{N/A}
1-1 Are existing natural drainage pathways and hydrologic features	O Yes	O _{No}	0) 7 ()
mapped on the site map?	✓ res	V INO	⊙n/A
1-2 Are street trees implemented? If yes, are they shown on the site map?	O Yes	O _{No}	⊙ N/A
1-3 Implemented street trees meet the design criteria in SD-1 Fact Sheet (e.g. soil volume, maximum credit, etc.)?	OYes	O _{No}	⊙ N/A
1-4 Is street tree credit volume calculated using Appendix B.2.2.1 and SD-1 Fact Sheet in Appendix E?	OYes	O _{No}	⊙ N/A
SD-2 Have natural areas, soils and vegetation been conserved? Discussion / justification if SD-2 not implemented: Site has been rough graded for development.	OYes	ONo	⊙ N/A

Form I-5 Page 2 of 4			
Site Design Requirement		Applied?	-
SD-3 Minimize Impervious Area	\odot_{Yes}	ONo	O _{N/A}
Discussion / justification if SD-3 not implemented: Click or tap here to enter text.			
	-		
SD-4 Minimize Soil Compaction Discussion / justification if SD-4 not implemented:	• Yes	O _{No}	O _{N/A}
Click or tap here to enter text.			
SD-5 Impervious Area Dispersion	OYes	ΟNο	O _{N/A}
Discussion / justification if SD-5 not implemented: Although impervious surfaces do drain to pervious areas, the flow Biofiltration is the primary treatment method proposed at Sun impervious area dispersion per SD-5 is not relied upon for treatmen	road Cent		
5-1 Is the pervious area receiving runon from impervious area identified on the site map?	OYes	⊙ No	
5-2 Does the pervious area satisfy the design criteria in SD-5 Fact Sheet in Appendix E (e.g. maximum slope, minimum length, etc.)	O Yes	• No	
5-3 Is impervious area dispersion credit volume calculated using Appendix B.2.1.1 and SD-5 Fact Sheet in Appendix E?	OYes	⊙ No	

Form I-5 Page 3 of 4			
Site Design Requirement		Applied?	-
SD-6 Runoff Collection	• Yes	ONo	O _{N/A}
Discussion / justification if SD-6 not implemented: Click or tap here to enter text.			
6a-1 Are green roofs implemented in accordance with design criteria in SD-6A Fact Sheet? If yes, are they shown on the site map?	OYes	⊙ No	O _{N/A}
6a-2 Is green roof credit volume calculated using Appendix B.2.1.2 and SD-6A Fact Sheet in Appendix E?	O Yes	⊙ _{No}	O _{N/A}
6b-1 Are permeable pavements implemented in accordance with design criteria in SD-6B Fact Sheet? If yes, are they shown on the site map?	O Yes	⊙ No	O _{N/A}
6b-2 Is permeable pavement credit volume calculated using Appendix B.2.1.3 and SD-6B Fact Sheet in Appendix E?	OYes	⊙ _{No}	O _{N/A}
SD-7 Landscaping with Native or Drought Tolerant Species	⊙ Yes	ONo	O _{N/A}
SD-8 Harvesting and Using Precipitation	OYes	⊙ No	O _{N/A}
Discussion / justification if SD-8 not implemented: There are two significant opportunities for using stormwater at Sunroad Centrum 6; landscape irrigation and toilet flushing. Per the calculations in attachment B.3-1, the demand for landscape irrigation alone is not significant enough to justify harvesting. Toilet flushing could potentially use stormwater, however, use of storm water for this purpose is currently not approved by the County Department of Health. Stormwater harvesting and use is not a feasible option at Sunroad Centrum 6.			
8-1 Are rain barrels implemented in accordance with design criteria in SD-8 Fact Sheet? If yes, are they shown on the site map?	OYes	⊙ No	O _{N/A}
8-2 Is rain barrel credit volume calculated using Appendix B.2.2.2 and SD-8 Fact Sheet in Appendix E?	O Yes	⊙ No	O _{N/A}



- PROPOSED BUILDING/: MULTI-STORY MINIMIZES AREA (SD-3 MINIMIZE IMPERVIOUS AREA)
- PROPOSED IMPERVIOUS: MINIMUM WIDTHS USED (SD-3 MINIMIZE IMPERVIOUS AREA)
- LANDSCAPE: PLANTER (SD-4 MINIMIZE SOIL COMPACTION) (SD-7 LANDSCAPE/PLANTER AREA WITH DROUGHT TOLERANT SPECIES)
- EXISTING BUILDING
- EXISTING IMPERVIOUS

Signal Stevens - Cresto Engineering, INC	CIVIL ENGINEERS. LAND PLANNERS. SURVEYORS	0 9465 CHEXPEARE DRIVE PHONE: 838.694.5640 SUITE 200 FAX: 838.694.5661 SAN DIEGO, CA 92123-1352 www.scengr.com
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SUNROAD CENTRUM SAN DIEGO, CALIFORNIA		
EXHIBIT I-5	SITE MAD	
<u> </u>	CITE MAD	22/18

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Summary of PDP Structural BMPs Form 1-6
PDP Structural BMPs All PDPs must implement structural BMPs for storm water pollutant control (see Chapter 5 of the BMP Design Manual, Part 1 of Storm Water Standards). Selection of PDP structural BMPs for storm water pollutant control must be based on the selection process described in Chapter 5. PDPs subject to hydromodification management requirements must also implement structural BMPs for flow control for hydromodification management (see Chapter 6 of the BMP Design Manual). Both storm water pollutant control and flow control for hydromodification management can be achieved within the same structural BMP(s).
PDP structural BMPs must be verified by the City at the completion of construction. This includes requiring the project owner or project owner's representative to certify construction of the structural BMPs (complete Form DS-563). PDP structural BMPs must be maintained into perpetuity (see Chapter 7 of the BMP Design Manual).
Use this form to provide narrative description of the general strategy for structural BMP implementation at the project site in the box below. Then complete the PDP structural BMP summary information sheet (page 3 of this form) for each structural BMP within the project (copy the BMP summary information page as many times as needed to provide summary information for each individual structural BMP).
Describe the general strategy for structural BMP implementation at the site. This information must describe how the steps for selecting and designing storm water pollutant control BMPs presented in Section 5.1 of the BMP Design Manual were followed, and the results (type of BMPs selected). For projects requiring hydromodification flow control BMPs, indicate whether pollutant control and flow control BMPs are integrated or separate.
After calculating the DCV for each DMA, a feasibility analysis was performed for infiltration potential and "No Infiltration Condition" was selected in Worksheet C.4-1, provided in Attachment 1d and Attachment 6; see Nova Services' "Preliminary Geotechnical Investigation," dated November 14, 2017, for additional information. As a result, biofiltration BMPs, per fact sheet BF-1, were selected for use at the site. The project proposes 4 total biofiltration facilities. All 4 of the proposed biofiltration facilities are designed to provide both hydromodification mitigation and pollutant control mitigation. See Attachment 2 for hydromodification mitigation calculations.
Proprietary Biofiltration: A proprietary biofiltration system, P-BF1, is proposed for use in the project drive lane. Due to horizontal and vertical constraints associated with the need for the drive lane to provide connectivity between existing Sunroad Centrum Lane, the existing parking structure, the existing Centrum 12 building, and the proposed Sunroad Centrum 6 project, along with the need to provide a firelane for Centrum 12, the ability to control drainage within the drivelane is limited. Grades and physical constraints do not allow the incorporation of a non-proprietary biofiltration system. As such, a modular wetland system, or approved equivalent, is proposed within the drivelane to provide pollutant control mitigation. Flows treated by the proprietary biofiltration system will be routed to an underground detention system for hydromodification mitigation. P-BF2 and P-BF3 are also proposed for water quality mitigation for approximately 1:1 acres of the proposed residential podium structure. Hydromodification BF-2 will provide water quality and hydromodification mitigation for the

existing structure.

(Continue on page 2 as necessary.)

	Copy as many as needed)	
Structural BMP ID No. BF1		
Construction Plan Sheet No. Click or tap here to enter text.		
Type of structural BMP:		
• Retention by harvest and use (HU-1)		
O Retention by infiltration basin (INF-1)		
O Retention by bioretention (INF-2)		
O Retention by permeable pavement (INF-3)		
• Partial retention by biofiltration with partial retentio	n (PR-1)	
• Biofiltration (BF-1)		
• Flow-thru treatment control with prior lawful approval to meet earlier PDP requirements (provide (BMP type/description in discussion section below)		
Flow-thru treatment control included as pre-treatment/forebay for an onsite retention or biofiltration O BMP (provide BMP type/description and indicate which onsite retention or biofiltration BMP it serves in discussion section below)		
• Flow-thru treatment control with alternative compl	iance (provide BMP type/description in discussion	
O Detention pond or vault for hydromodification ma	inagement	
Other (describe in discussion section below)		
Purpose: O Pollutant control only O Hydromodification control only O Combined pollutant control and hydromodification control		
• Pre-treatment/forebay for another structural BMP		
O Other (describe in discussion section below)		
Who will certify construction of this BMP? Provide name and contact information for the party responsible to sign BMP verification form DS-563	Bryan Hill Stevens Cresto Engineering 9665 Chesapeak Drive, Suite 200 San Diego, CA 92123	
Who will be the final owner of this BMP?	SUNROAD ENTERPRISES 4445 Eastgate Mall, Suite 400 San Diego, CA 92121	
Who will maintain this BMP into perpetuity?	SUNROAD ENTERPRISES 4445 Eastgate Mall, Suite 400 San Diego, CA 92121	
What is the funding mechanism for maintenance?	Private maintenance will be budgeted with other site costs.	

	Copy as many as needed)	
Structural BMP Summary Information Structural BMP ID No. BF2		
Construction Plan Sheet No. Click or tap here to enter text.		
Type of structural BMP:		
• Retention by harvest and use (HU-1)		
• Retention by infiltration basin (INF-1)		
• Retention by bioretention (INF-2)		
O Retention by permeable pavement (INF-3)		
O Partial retention by biofiltration with partial retentio	n (PR-1)	
• Biofiltration (BF-1)		
• Flow-thru treatment control with prior lawful appr (BMP type/description in discussion section below	oval to meet earlier PDP requirements (provide)	
 Flow-thru treatment control included as pre-treatment/forebay for an onsite retention or biofiltration O BMP (provide BMP type/description and indicate which onsite retention or biofiltration BMP it serves in discussion section below) 		
• Flow-thru treatment control with alternative compl	iance (provide BMP type/description in discussion	
O Detention pond or vault for hydromodification ma	anagement	
O Other (describe in discussion section below)		
Purpose: O Pollutant control only O Hydromodification control only		
• Combined pollutant control and hydromodification	n control	
© Pre-treatment/forebay for another structural BMP		
O Other (describe in discussion section below)		
Who will certify construction of this BMP? Provide name and contact information for the party responsible to sign BMP verification form DS-563	Bryan Hill Stevens Cresto Engineering 9665 Chesapeak Drive, Suite 200 San Diego, CA 92123	
Who will be the final owner of this BMP?	SUNROAD ENTERPRISES 4445 Eastgate Mall, Suite 400 San Diego, CA 92121	
Who will maintain this BMP into perpetuity?	SUNROAD ENTERPRISES 4445 Eastgate Mall, Suite 400 San Diego, CA 92121	
What is the funding mechanism for maintenance?	Private maintenance will be budgeted with other site costs.	

Form I-6 Page 3 of X (C Structural BMP Sur	Copy as many as needed) mmary Information	
Structural BMP ID No. BF3		
Construction Plan Sheet No. Click or tap here to enter text.		
Type of structural BMP:		
O Retention by harvest and use (HU-1)		
O Retention by infiltration basin (INF-1)		
© Retention by bioretention (INF-2)		
© Retention by permeable pavement (INF-3)		
• Partial retention by biofiltration with partial retentio	n (PR-1)	
• Biofiltration (BF-1)		
• Flow-thru treatment control with prior lawful appr (BMP type/description in discussion section below	oval to meet earlier PDP requirements (provide	
 Flow-thru treatment control included as pre-treatment/forebay for an onsite retention or biofiltration BMP (provide BMP type/description and indicate which onsite retention or biofiltration BMP it serves in discussion section below) 		
• Flow-thru treatment control with alternative compl	iance (provide BMP type/description in discussion	
O Detention pond or vault for hydromodification ma	inagement	
O Other (describe in discussion section below)		
D		
Purpose: O Pollutant control only		
• Hydromodification control only		
	a control	
 Combined pollutant control and hydromodification control Pre-treatment/forebay for another structural BMP 		
O Other (describe in discussion section below)		
	D 77/11	
Who will certify construction of this BMP?	Bryan Hill Stevens Cresto Engineering	
Provide name and contact information for the party	9665 Chesapeak Drive, Suite 200	
responsible to sign BMP verification form DS-563	San Diego, CA 92123	
Who will be the final owner of this BMP?	SUNROAD ENTERPRISES	
who will be the link owner of this Divir?	4445 Eastgate Mall, Suite 400 San Diego, CA 92121	
	SUNROAD ENTERPRISES	
Who will maintain this BMP into perpetuity?	4445 Eastgate Mall, Suite 400	
	San Diego, CA 92121	
What is the funding mechanism for maintenance?	Private maintenance will be budgeted with other site costs.	

(),	Copy as many as needed)	
Structural BMP Summary Information Structural BMP ID No. BF4		
Construction Plan Sheet No. Click or tap here to enter text. Type of structural BMP:		
• Retention by harvest and use (HU-1)		
O Retention by infiltration basin (INF-1)		
• Retention by bioretention (INF-2)		
• Retention by permeable pavement (INF-3)		
O Partial retention by biofiltration with partial retentio	n (PR-1)	
• Biofiltration (BF-1)		
• Flow-thru treatment control with prior lawful appr (BMP type/description in discussion section below	oval to meet earlier PDP requirements (provide	
 Flow-thru treatment control included as pre-treatment/forebay for an onsite retention or biofiltration O BMP (provide BMP type/description and indicate which onsite retention or biofiltration BMP it serves in discussion section below) 		
• Flow-thru treatment control with alternative compl	iance (provide BMP type/description in discussion	
O Detention pond or vault for hydromodification ma	inagement	
O Other (describe in discussion section below)		
Purpose: O Pollutant control only O Hydromodification control only		
• Combined pollutant control and hydromodification	n control	
• Pre-treatment/forebay for another structural BMP		
O Other (describe in discussion section below)		
	Duran II:11	
Who will certify construction of this BMP? Provide name and contact information for the party responsible to sign BMP verification form DS-563	Bryan Hill Stevens Cresto Engineering 9665 Chesapeak Drive, Suite 200 San Diego, CA 92123	
Who will be the final owner of this BMP?	SUNROAD ENTERPRISES 4445 Eastgate Mall, Suite 400 San Diego, CA 92121	
Who will maintain this BMP into perpetuity?	SUNROAD ENTERPRISES 4445 Eastgate Mall, Suite 400 San Diego, CA 92121	
What is the funding mechanism for maintenance?	Private maintenance will be budgeted with other site costs.	

Form I-6 Page 3 of X (Copy as many as needed)		
Structural BMP Summary Information		
Structural BMP ID No. PBF1		
Construction Plan Sheet No. Click or tap here to enter text.		
Type of structural BMP:		
O Retention by harvest and use (HU-1)		
O Retention by infiltration basin (INF-1)		
O Retention by bioretention (INF-2)		
O Retention by permeable pavement (INF-3)		
O Partial retention by biofiltration with partial retention	on (PR-1)	
O Biofiltration (BF-1)		
• Flow-thru treatment control with prior lawful approval to meet earlier PDP requirements (provide (BMP type/description in discussion section below)		
 Flow-thru treatment control included as pre-treatment/forebay for an onsite retention or biofiltration O BMP (provide BMP type/description and indicate which onsite retention or biofiltration BMP it serves in discussion section below) 		
O Flow-thru treatment control with alternative compl	liance (provide BMP type/description in discussion	
O Detention pond or vault for hydromodification ma	anagement	
• Other (describe in discussion section below)		
Purpose:		
Pollutant control only		
O Hydromodification control only		
O Combined pollutant control and hydromodification	n control	
O Pre-treatment/forebay for another structural BMP		
O Other (describe in discussion section below)		
Who will certify construction of this BMP?	Bryan Hill	
Provide name and contact information for the party	Stevens Cresto Engineering	
responsible to sign BMP verification form DS-563	9665 Chesapeak Drive, Suite 200	
	San Diego, CA 92123 SUNROAD ENTERPRISES	
Who will be the final owner of this BMP?	4445 Eastgate Mall, Suite 400	
	San Diego, CA 92121	
W/I II I D C I	SUNROAD ENTERPRISES	
Who will maintain this BMP into perpetuity?	4445 Eastgate Mall, Suite 400	
	San Diego, CA 92121	
What is the funding mechanism for maintenance?	Private maintenance will be budgeted with other site costs.	

Form I-6 Page 4 of X (Copy as many as needed)

Structural BMP ID No. PBF1

Construction Plan Sheet No. Click or tap here to enter text.

Discussion (as needed):

PBF1 is a proprietary, or compact, biofiltration system. Required retention volume will be provided by tree wells adjacent to the drive lane. See Attachment 1e for calculations and additional detail.

Form 1-6 Page 3 of X (Copy as many as needed)				
Structural BMP Summary Information				
Structural BMP ID No. PBF2				
Construction Plan Sheet No. Click or tap here to ent	er text.			
Type of structural BMP:				
© Retention by harvest and use (HU-1)				
O Retention by infiltration basin (INF-1)				
O Retention by bioretention (INF-2)				
O Retention by permeable pavement (INF-3)				
O Partial retention by biofiltration with partial retention (PR-1)				
O Biofiltration (BF-1)				
O Flow-thru treatment control with prior lawful approval to meet earlier PDP requirements (provide (BMP type/description in discussion section below)				
 Flow-thru treatment control included as pre-treatment/forebay for an onsite retention or biofiltration BMP (provide BMP type/description and indicate which onsite retention or biofiltration BMP it serves in discussion section below) 				
O Flow-thru treatment control with alternative compliance (provide BMP type/description in discussion				
O Detention pond or vault for hydromodification ma	anagement			
• Other (describe in discussion section below)				
 Purpose: Pollutant control only Hydromodification control only Combined pollutant control and hydromodification control 				
O Pre-treatment/forebay for another structural BMP				
Other (describe in discussion section below)				
Who will certify construction of this BMP? Provide name and contact information for the party responsible to sign BMP verification form DS-563	Bryan Hill Stevens Cresto Engineering 9665 Chesapeak Drive, Suite 200 San Diego, CA 92123			
Who will be the final owner of this BMP?	SUNROAD ENTERPRISES 4445 Eastgate Mall, Suite 400 San Diego, CA 92121			
Who will maintain this BMP into perpetuity?	SUNROAD ENTERPRISES 4445 Eastgate Mall, Suite 400 San Diego, CA 92121			
What is the funding mechanism for maintenance?	Private maintenance will be budgeted with other site costs.			

Form I-6 Page 4 of X (Copy as many as needed)

Structural BMP ID No. PBF2

Construction Plan Sheet No. Click or tap here to enter text.

Discussion (as needed):

PBF2 is a proprietary, or compact, biofiltration system. Required retention volume will be provided by raised planters on the podium deck of the proposed building. See Attachment 1e for calculations and additional detail.

Form I-6 Page 3 of X (Form I-6 Page 3 of X (Copy as many as needed)				
Structural BMP Summary Information					
Structural BMP ID No. PBF3					
Construction Plan Sheet No. Click or tap here to enter text.					
Type of structural BMP:					
O Retention by harvest and use (HU-1)					
O Retention by infiltration basin (INF-1)					
O Retention by bioretention (INF-2)					
O Retention by permeable pavement (INF-3)					
O Partial retention by biofiltration with partial retention (PR-1)					
O Biofiltration (BF-1)					
O Flow-thru treatment control with prior lawful approval to meet earlier PDP requirements (provide (BMP type/description in discussion section below)					
 Flow-thru treatment control included as pre-treatment/forebay for an onsite retention or biofiltration O BMP (provide BMP type/description and indicate which onsite retention or biofiltration BMP it serves in discussion section below) 					
O Flow-thru treatment control with alternative comp	liance (provide BMP type/description in discussion				
O Detention pond or vault for hydromodification management					
• Other (describe in discussion section below)					
Purpose:					
• Pollutant control only					
O Hydromodification control only					
O Combined pollutant control and hydromodification	n control				
© Pre-treatment/forebay for another structural BMP					
O Other (describe in discussion section below)					
Who will contife construction of this DMD	Bryan Hill				
Who will certify construction of this BMP? Provide name and contact information for the party	Stevens Cresto Engineering				
responsible to sign BMP verification form DS-563	9665 Chesapeak Drive, Suite 200 San Diego, CA 92123				
	SUNROAD ENTERPRISES				
Who will be the final owner of this BMP?	4445 Eastgate Mall, Suite 400				
	San Diego, CA 92121				
Who will maintain this DMD is a second second	SUNROAD ENTERPRISES				
Who will maintain this BMP into perpetuity?	4445 Eastgate Mall, Suite 400 San Diego, CA 92121				
	0 mi Diego, 0/1 /2/21				
What is the funding mechanism for maintenance?	Private maintenance will be budgeted with other site costs.				

Form 1-6 Page 4 of X (Copy as many as needed)

Structural BMP ID No. PBF3

Construction Plan Sheet No. Click or tap here to enter text.

Discussion (as needed):

PBF3 is a proprietary, or compact, biofiltration system. Required retention volume will be provided by raised planters on the podium deck of the proposed building. See Attachment 1e for calculations and additional detail.



City of San Diego Development Services 1222 First Ave., MS-501 San Diego, CA 92101

Permanent BMP Construction DS-563 Self Certification Form

FORM

			December 2016
Date Prepared:	Pro	ject No./Drawing No.:	
Project Applicant:	Pho	one:	
Project Address:			
Project Name:			
The purpose of th structed in confo	is form is to verify that the site improv ormance with the approved Storm	ements for the project, identified above Water Standards Manual documents	e, have been con- s and drawings.
This form must be Completion and su City's Storm Water or release of gradi the City of San Die	ubmittal of this form is required for Pr ordinances and applicable San Diego l ng or public improvement bonds may	itted prior to final inspection of the cor iority Development Projects in order to Regional MS4 Permit. Final inspection fo be delayed if this form is not submitted	nstruction permit. comply with the or occupancy and/ and approved by
Certification: As the professiona structed Low Imp BMP's required pe with the approved I understand that t	ll in responsible charge for the design of act Development (LID) site design, so r the Storm Water Standards Manual; a plans and all applicable specifications, his BMP certification statement does n	of the above project, I certify that I have urce control, hydromodification, and t and that said BMP's have been construct permits, ordinances and San Diego Regi ot constitute an operation and maintena	inspected all con- reatment control ted in compliance onal MS4 Permit. ance verification.
Signature:			
Date of Signature:			
Printed Name:			
Title:			
Phone No			
		Engineer's Stamp	

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