

Quick Reference Guide

Item	Project Information
Project Name	Vista Way Homes
Application Number(s)	T21-00002
Project Address	3710 Vista Way
Total Parcel Area	85,813.2 sq. ft.
Project Description	The project is located at 3710 Vista Way adjacent to 78 Freeway. The project is located along the north side of Vista Way, at the northwest corner of Vista Way and North Way. The 78 freeway runs parallel with Vista Way's southerly right-of-way. Access to the site is from Vista Way. There are duplexes located adjacent to the westerly and northerly boundary of the site. These lots drain away from this site onto the existing frontage streets (Lille St. to the west and Gail dr. to the north). The project proposes the construction of 18 residential units. This project is proposed to be a "Common Interest Development for Senior Housing". This 1.97-acre project will include affordable housing. This site was previously a part of a residential development with homes and streets, these improvements have been removed from the site.
Proposed Disturbed Area	71,003 sq. ft.
Created or Replaced Impervious	30,389 sq. ft.
Project Hydrologic Unit Watershed	☐ Santa Maria ☐ San Luis Rey ☒ Carlsbad
Required to implement HMP	☒ Yes ☐ No

Total impervious needs to be updated to reflect revised numbers



Summary of Comments on Microsoft Word - 2022 V Way PDP SWQMP.docx

Page: 2

 Number: 1 Author: bryan Subject: Callout Date: 9/23/2022 7:11:52 PM

Total impervious needs to be updated to reflect revised numbers

Select "New Development" instead of Redevelopment¹

Project Type Determination Checklist			Form I-2
Project Information			
Project Name: Vista Way Homes			
Permit Application Number: TM T21-00002			
Project Type Determination: Standard Project or PDP			
The project is (select one): ☐ New Development ☒ Redevelopment			
The total proposed newly created or replaced impervious area is: 58,387 ft ² (1.340) acres			
Is the project in any of the following categories, (a) through (f)?			
Yes ☒	No ☐	(a)	New development projects that create 10,000 square feet or more of impervious surfaces (collectively over the entire project site). This includes commercial, industrial, residential, mixed-use, and public development projects on public or private land.
Yes ☐	No ☒	(b)	Redevelopment projects that create and/or replace 5,000 square feet or more of impervious surface (collectively over the entire project site 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 ☒	(c)	New and redevelopment projects that create 5,000 square feet or more of impervious surface (collectively over the entire project site), and support one or more of the following uses: (i) Restaurants. This category is defined as a facility that sells prepared foods and drinks for consumption, including stationary lunch counters and refreshment stands selling prepared foods and drinks for immediate consumption SIC code 5812). (ii) Hillside development projects. This category includes development on any natural slope that is twenty-five percent or greater. (iii) Parking lots. This category is defined as a land area or facility for the temporary parking or storage of motor vehicles used personally, for business, or for commerce. (iv) Streets, roads, highways, freeways, and driveways. This category is defined as any paved impervious surface used for the transportation of automobiles, trucks, motorcycles, and other vehicles.



Select "New Development" instead of Redevelopment

Source Control BMP Checklist for All Development Projects (Standard Projects and PDPs)		Form I-4	
Project Identification			
Project Name: Vista Way Homes			
Permit Application Number: TM T21-00002			
Source Control BMPs			
All development projects must implement source control BMPs SC-1 through SC-6 where applicable and feasible. See Chapter 4 and Appendix E of the manual for information to implement source control BMPs shown in this checklist. Answer each category below: "Yes" means the project will implement the source control BMP as described in Chapter 4 and/or Appendix E of the 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 has no outdoor materials storage areas). Discussion / justification may be provided.			
Source Control Requirement		Implemented?	
SC-1 Prevention of Illicit Discharges into the MS4		☒ Yes	☐ No ☐ N/A
Discussion / justification if SC-1 not implemented:			
SC-2 Storm Drain Stenciling or Signage		☒ Yes	☐ No ☐ N/A
Discussion / justification if SC-2 not implemented:			
SC-3 Protect Outdoor Materials Storage Areas from Rainfall, Run-On, Runoff, and Wind Dispersal		☐ Yes	☐ No ☒ N/A
Discussion / justification if SC-3 not implemented:			



Form I-4 Page 3 of 3

SC-6 Additional BMPs Based on Potential Sources of Runoff Pollutants (must answer for each source listed below)	Implemented?		
Onsite storm drain inlets	☒ Yes	☐ No	☐ N/A
Interior floor drains and elevator shaft sump pumps	☐ Yes	☐ No	☒ N/A
Interior parking garages	☐ Yes	☐ No	☒ N/A
Need for future indoor & structural pest control	☒ Yes	☐ No	☐ N/A
Landscape/outdoor pesticide use	☒ Yes	☐ No	☐ N/A
Pools, spas, ponds, decorative fountains, and other water features	☐ Yes	☐ No	☒ N/A
Food service	☐ Yes	☐ No	☒ N/A
Refuse area	☐ Yes	☐ No	☒ N/A
Industrial processes	☐ Yes	☐ No	☒ N/A
Outdoor storage of equipment or materials	☐ Yes	☐ No	☒ N/A
Vehicle and equipment cleaning	☒ Yes	☐ No	☐ N/A
Vehicle/equipment repair and maintenance	☐ Yes	☐ No	☒ N/A
Fuel dispensing areas	☒ Yes	☐ No	☐ N/A
Loading docks	☐ Yes	☐ No	☒ N/A
Fire sprinkler test water	☐ Yes	☐ No	☒ N/A
Miscellaneous drain or wash water	☐ Yes	☐ No	☒ N/A
Plazas, sidewalks, and parking lots	☒ Yes	☐ No	☐ 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. Revise to be consistent with Form I-3B			



 Number: 1	Author: bryan	Subject: Callout	Date: 9/23/2022 7:18:05 PM
N/A			
 Number: 2	Author: bryan	Subject: Callout	Date: 9/23/2022 7:17:30 PM
N/A			
 Number: 3	Author: bryan	Subject: Callout	Date: 9/23/2022 7:16:56 PM
Revise to be consistent with Form I-3B			

Site Design BMP Checklist for All Development Projects (Standard Projects and PDPs)		Form I-5	
Project Identification			
Project Name: Oceanside Vista Way Homes			
Permit Application Number: TM T21-00002			
Site Design BMPs			
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 manual for information to implement site design BMPs shown in this checklist. TEMPLATE DIRECTIONS ARE DATED. PLEASE PROVIDE DISCUSSION/JUSTIFICATION FOR ALL SITE DESIGN BMPs ¹			
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 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.			
Site Design Requirement		Applied?	
SD-1 Maintain Natural Drainage Pathways and Hydrologic Features		☐ Yes	☐ No ☒ N/A
Discussion / justification if SD-1 not implemented:			
SD-2 Conserve Natural Areas, Soils, and Vegetation		☐ Yes	☐ No ☒ N/A
Discussion / justification if SD-2 not implemented:			
SD-3 Minimize Impervious Area		☒ Yes	☐ No ☐ N/A
Discussion / justification if SD-3 not implemented: The development will not exceed allowable building square footages and will provide landscape in accordance with code requirements. Impervious areas were minimized where possible.			
SD-4 Minimize Soil Compaction		☐ Yes	☒ No ☒ N/A
Discussion / justification if SD-4 not implemented: The project includes grading for paved surfaces which will require compaction based on the soils engineer's recommendations. SD-4 is specific to landscaped areas; will landscaped planters be tilled and amended? ²			



Number: 1 Author: bryan Subject: Text Box Date: 9/26/2022 7:46:47 PM
TEMPLATE DIRECTIONS ARE DATED. PLEASE PROVIDE DISCUSSION/JUSTIFICATION FOR ALL SITE DESIGN BMPs

Number: 2 Author: bryan Subject: Text Box Date: 9/26/2022 7:40:00 PM
SD-4 is specific to landscaped areas; will landscaped planters be tilled and amended?

Form I-5 Page 2 of 2

Site Design Requirement	Applied?		
SD-5 Impervious Area Dispersion	☐ Yes	☒ No	☐ N/A
Discussion / justification if SD-5 not implemented: New paved surfaces will be directed towards landscaped areas, impervious area dispersion requirements cannot be met in every scenario, so this DCV discount will not be utilized for this project			
SD-6 Runoff Collection	☒ Yes	☐ No	☐ N/A
Discussion / justification if SD-6 not implemented:			
SD-7 Landscaping with Native or Drought Tolerant Species	☒ Yes	☐ No	☐ N/A
Discussion / justification if SD-7 not implemented:			
SD-8 Harvesting and Using Precipitation	☐ Yes	☐ No	☒ N/A
Discussion / justification if SD-8 not implemented:			

Harvest and use appears to be viable. Narrative/ justification needs to be provided.

1



Harvest and use appears to be viable. Narrative/ justification needs to be provided.

Summary of PDP Structural BMPs	Form I-6 (PDPs)
Project Identification	
Project Name: Vista Way Homes	
Permit Application Number: TM T21-00002	
PDP Structural BMPs	
All PDPs must implement structural BMPs for storm water pollutant control (see Chapter 5 of the manual). 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 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 local jurisdiction at the completion of construction. This may include requiring the project owner or project owner's representative to certify construction of the structural BMPs (see Section 1.12 of the manual). PDP structural BMPs must be maintained into perpetuity, and the local jurisdiction must confirm the maintenance (see Section 7 of the 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 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. The proposed area of disturbance has been delineated as drainage management areas (DMAs), there are small self-mitigating areas within the DMA, The DCV was estimated by adjusting the runoff factor to account for pervious surfaces that drain to the treatment facility. Harvesting was determined to be unfeasible due to the lack of landscaped areas. The project proposes the use of a proprietary Biofiltration BMPs consisting of a treatment system and below ground storage system. These devices comply with treatment and flow sizing requirements. Additionally, within the storage system a concrete box with a weir wall and orifice have been proposed to comply with flow control requirements. The weir wall will retain storm events up to the 100-year and the orifice has been sized to comply with pre-developed project site conditions. The treated and stored storm water will be discharge at two locations along Vista Way. (Continue on page 2 as necessary)	
Form I-6 Page 2 of 4	

Please show self
mitigating areas on DMA
Exhibit or revise text



Please show self mitigating areas on DMA Exhibit or revise text

Form I-6 Page 3 of 4 (Copy as many as needed)	
Structural BMP Summary Information (Copy this page as needed to provide information for each individual proposed structural BMP)	
Structural BMP ID No. BMP 1	
Construction Plan Sheet No. TM	
Type of structural BMP: ☐ Retention by harvest and use (HU-1) ☐ Retention by infiltration basin (INF-1) ☐ Retention by bioretention (INF-2) ☐ Retention by permeable pavement (INF-3) ☐ Partial retention by biofiltration with partial retention (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 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 compliance (provide BMP type/description in discussion section below) ☒ Detention pond or vault for hydromodification management ☐ Other (describe in discussion section below)	
Purpose: ☒ Pollutant control only ☐ Hydromodification control only ☐ Combined pollutant control and hydromodification control ☐ 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 forms if required by the [City Engineer] (See Section 1.12 of the manual)	ALTA Consultants 619-749-8818
Who will be the final owner of this BMP?	Property Owner
Who will maintain this BMP into perpetuity?	Property Owner
What is the funding mechanism for maintenance?	Property Owner

Revise so MWS-1, MWS-2, UG-1, and UG-2 all have their own sheets



Revise so MWS-1, MWS-2, UG-1, and UG-2 all have their own sheets



Modular Wetlands[®] Linear

A Stormwater Biofiltration Solution



[Move to Attachment 1f](#)

SIZING CHART

FLOW-BASED DESIGNS

The Modular Wetlands® Linear can be used in stand-alone applications to meet treatment flow requirements, and since it is the only biofiltration system that can accept inflow pipes several feet below the surface, it can be used in decentralized design applications as well as large central end-of-the-line applications.

Model #	Dimensions	WetlandMEDIA Surface Area (sq.ft.)	Treatment Flow Rate (cfs)
MWS-L-4-4	4'x4'	23	0.052
MWS-L-4-6	4'x6'	32	0.073
✓ MWS-L-4-8	4'x8'	50	0.115 ✓
MWS-L-8-8	8'x8'	100	0.230
✓ MWS-L-8-12	8'x12'	151	0.346 ✓
MWS-L-8-16	8'x16'	201	0.462
MWS-L-8-20	8'x20'	252	0.577
MWS-L-8-24	8'x24'	302	0.693

APPLICATIONS



The Modular Wetlands® Linear has been successfully used on numerous new construction and retrofit projects. The system’s superior versatility makes it beneficial for a wide range of stormwater and waste water applications.

INDUSTRIAL

The Modular Wetlands has helped various sites meet difficult EPA-mandated effluent limits for dissolved metals and other pollutants.

RESIDENTIAL

Low to high density developments can benefit from the versatile design of the Modular Wetlands. The system can be used in both decentralized LID design and cost-effective end-of-the-line configurations.

STREETS

The Modular Wetlands is extremely space efficient, and adept to meeting special constraints of existing utilities on retrofit projects.

PARKING LOTS

Parking lots are designed to maximize space and the Modular Wetlands’ 4 ft. standard planter width allows for easy integration into parking lot islands and other landscape medians.

COMMERCIAL

Compared to bioretention systems, the Modular Wetlands can treat far more area in less space, meeting treatment and volume control requirements.

More applications include:

- Agriculture
- Reuse
- Low Impact Development
- Waste Water
- Mixed Use

[Move to Attachment 1f](#)

Attachment 1e

Form I-8, Categorization of Infiltration Feasibility Condition

TO BE PROVIDED ON NEXT SUBMITTAL

Along with Form I-8, provide an assessment of infiltration feasibility from the soils engineer, including Worksheet C.4-1.

1





Along with Form I-8, provide an assessment of infiltration feasibility from the soils engineer, including Worksheet C.4-1.

Automated Worksheet B.1: Calculation of Design Capture Volume (V2.0)

Category	#	Description	<i>i</i>	<i>ii</i>	Units
Standard Drainage Basin Inputs	1	Drainage Basin ID or Name	DMA A	DMA B&C	unitless
	2	85th Percentile 24-hr Storm Depth	0.62	0.62	inches
	3	Impervious Surfaces <u>Not Directed to Dispersion Area</u> (C=0.90)	17,481	40,906	sq-ft
	4	Semi-Pervious Surfaces <u>Not Serving as Dispersion Area</u> (C=0.30)			sq-ft
	5	Engineered Pervious Surfaces <u>Not Serving as Dispersion Area</u> (C=0.10)	13,846	13,058	sq-ft
	6	Natural Type A Soil <u>Not Serving as Dispersion Area</u> (C=0.10)			sq-ft
	7	Natural Type B Soil <u>Not Serving as Dispersion Area</u> (C=0.14)			sq-ft
	8	Natural Type C Soil <u>Not Serving as Dispersion Area</u> (C=0.23)			sq-ft
	9	Natural Type D Soil <u>Not Serving as Dispersion Area</u> (C=0.30)			sq-ft
Dispersion Area, Tree Well & Rain Barrel Inputs (Optional)	10	Does Tributary Incorporate Dispersion, Tree Wells, and/or Rain Barrels?	No	No	yes/no
	11	Impervious Surfaces Directed to Dispersion Area per SD-B (Ci=0.90)			sq-ft
	12	Semi-Pervious Surfaces Serving as Dispersion Area per SD-B (Ci=0.30)			sq-ft
	13	Engineered Pervious Surfaces Serving as Dispersion Area per SD-B (Ci=0.10)			sq-ft
	14	Natural Type A Soil Serving as Dispersion Area per SD-B (Ci=0.10)			sq-ft
	15	Natural Type B Soil Serving as Dispersion Area per SD-B (Ci=0.14)			sq-ft
	16	Natural Type C Soil Serving as Dispersion Area per SD-B (Ci=0.23)			sq-ft
	17	Natural Type D Soil Serving as Dispersion Area per SD-B (Ci=0.30)			sq-ft
	18	Number of Tree Wells Proposed per SD-A			#
	19	Average Mature Tree Canopy Diameter			ft
	20	Number of Rain Barrels Proposed per SD-E			#
Initial Runoff Factor Calculation	21	Average Rain Barrel Size			gal
	22	Total Tributary Area	31,327	53,964	sq-ft
	23	Initial Runoff Factor for Standard Drainage Areas	0.55	0.71	unitless
	24	Initial Runoff Factor for Dispersed & Dispersion Areas	0.00	0.00	unitless
	25	Initial Weighted Runoff Factor	0.55	0.71	unitless
Dispersion Area Adjustments	26	Initial Design Capture Volume	890	1,980	cubic-feet
	27	Total Impervious Area Dispersed to Pervious Surface	0	0	sq-ft
	28	Total Pervious Dispersion Area	0	0	sq-ft
	29	Ratio of Dispersed Impervious Area to Pervious Dispersion Area	n/a	n/a	ratio
	30	Adjustment Factor for Dispersed & Dispersion Areas	1.00	1.00	ratio
	31	Runoff Factor After Dispersion Techniques	0.55	0.71	unitless
Tree & Barrel Adjustments	32	Design Capture Volume After Dispersion Techniques	890	1,980	cubic-feet
	33	Total Tree Well Volume Reduction	0	0	cubic-feet
Results	34	Total Rain Barrel Volume Reduction	0	0	cubic-feet
	35	Final Adjusted Runoff Factor	0.55	0.71	unitless
	36	Final Effective Tributary Area	17,230	38,314	sq-ft
	37	Initial Design Capture Volume Retained by Site Design Elements	0	0	cubic-feet
	38	Final Design Capture Volume Tributary to BMP	890	1,980	cubic-feet

No Warning Messages

Demonstrate that minimum site retention is provided, use the County of San Diego Automated Stormwater Pollutant Control Worksheets V2.0 to calculate retention volume.



Number: 1

Author: bryan

Subject: Text Box

Date: 9/26/2022 7:24:13 PM

Demonstrate that minimum site retention is provided, use the County of San Diego Automated Stormwater Pollutant Control Worksheets V2.0 to calculate retention volume.

Indicate which Items are Included:

Attachment Sequence	Contents	Checklist
Attachment 2a	1. Hydromodification Management Exhibit (Required)	☒ Included See Hydromodification Management Exhibit Checklist.
Attachment 2b	Management of Critical Coarse Sediment Yield Areas (WMAA Exhibit is required, additional analyses are optional) See Section 6.2 of the BMP Design Manual.	☒ Exhibit showing project drainage boundaries marked on WMAA Critical Coarse Sediment Yield Area Map (Required) Optional analyses for Critical Coarse Sediment Yield Area Determination ☐ 6.2.1 Verification of Geomorphic Landscape Units Onsite ☐ 6.2.2 Downstream Systems Sensitivity to Coarse Sediment ☐ 6.2.3 Optional Additional Analysis of Potential Critical Coarse Sediment Yield Areas Onsite
Attachment 2c	Geomorphic Assessment of Receiving Channels (Optional) See Section 6.3.4 of the BMP Design Manual.	☒ Not performed ☐ Included ☐ Submitted as separate stand-alone document
Attachment 2d	Flow Control Facility Design and Structural BMP Drawdown Calculations (Required) Overflow Design Summary for each structural BMP See Chapter 6 and Appendix G of the BMP Design Manual	☐ Included ☒ Submitted as separate stand-alone document Check "included" ¹
Attachment 2e	Vector Control Plan (Required when structural BMPs will not drain in 96 hours)	☐ Included ☒ Not required because BMPs will drain in less than 96 hours



Check "included"

Areas Draining to BMP						HMP Sizing Factors	Minimum BMP Size
DMA Name	Area (sf)	Pre Project Soil Type	Pre-Project Slope	Post Project Surface Type	Area Weighted Runoff Factor (Table G.2-1) ¹	Volume	Volume (CF)
DMA 1 impervious	17,481	D	Moderate	Concrete	1.0	0.12	2098
DMA 1 pervious	13,846	D	Moderate	Landscape	0.1	0.12	166
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						0	0
						Minimum BMP Size	2264
						Proposed BMP Size*	3150
Standard Cistern Depth (Overflow Elevation)						3.5	ft
Provided Cistern Depth (Overflow Elevation)						3.5	ft
Minimum Required Cistern Footprint)						647	CF

Notes:

1. Runoff factors which are used for hydromodification management flow control (Table G.2-1) are different from the runoff factors used for pollutant control BMP sizing (Table B.1-1). Table references are taken from the San Diego Region Model BMP Design Manual, I

Describe the BMP's in sufficient detail in your PDP SWQMP to demonstrate the area, volume, and other criteria can be met within the constraints of the site.

BMP's must be adapted and applied to the conditions specific to the development project such as unstable slopes or the lack of available head.
Designated Staff have final review and approval authority over the project design.

This BMP Sizing Spreadsheet has been updated in conformance with the San Diego Region Model BMP Design Manual, May 2018. For questions or concerns please contact the jurisdiction in which your project is located.

Please provide naming consistent with the rest of the report

BMP Sizing Spreadsheet V3.1			
Project Name:	Vista Way Oceanside	Hydrologic Unit:	904.21
Project Applicant:	AP Consulting	Rain Gauge:	Oceanside
Jurisdiction:	City of Oceanside	Total Project Area:	85,813
Parcel (APN):	165-493-47	Low Flow Threshold:	0.1Q2
BMP Name	BMP 1	BMP Type:	Cistern

DMA Name	Rain Gauge	Pre-developed Condition		Unit Runoff Ratio (cfs/ac)	DMA Area (ac)	Orifice Flow - %Q ₂ (cfs)	Orifice Area (in ²)
		Soil Type	Slope				
DMA 1 impervious	Oceanside	D	Moderate	0.575	0.401	0.023	0.34
DMA 1 pervious	Oceanside	D	Moderate	0.575	0.318	0.018	0.27

3.50	0.041	0.61	0.88
Max Orifice Head (feet)	Max Tot. Allowable Orifice Flow (cfs)	Max Tot. Allowable Orifice Area (in ²)	Max Orifice Diameter (in)
Provide Hand Calc.	0.026	0.38	0.700
Average outflow during surface drawdown (cfs)	Max Orifice Outflow (cfs)	Actual Orifice Area (in ²)	Selected Orifice Diameter (in)

Drawdown (Hrs)	Provide Hand Calculation
----------------	--------------------------

Provide drawdown calculations

Provide drawdown calculations

BMP Sizing Spreadsheet V3.1			
Project Name:	Vista Way Oceanside	Hydrologic Unit:	904.21
Project Applicant:	AP Consulting	Rain Gauge:	Oceanside
Jurisdiction:	City of Oceanside	Total Project Area:	85,813
Parcel (APN):	165-493-47	Low Flow Threshold:	0.1Q2
BMP Name	BMP 2	BMP Type:	Cistern

[illegible]

Please provide naming consistent with the rest of the report

3.50	0.071	1.05	1.16
Max Orifice Head (feet)	Max Tot. Allowable Orifice Flow (cfs)	Max Tot. Allowable Orifice Area (in ²)	Max Orifice Diameter (in)

Provide Hand Calc.	0.064	0.95	1.100
Average outflow during surface drawdown (cfs)	Max Orifice Outflow (cfs)	Actual Orifice Area (in ²)	Selected Orifice Diameter (in)

Drawdown (Hrs)	Provide Hand Calculation
----------------	--------------------------

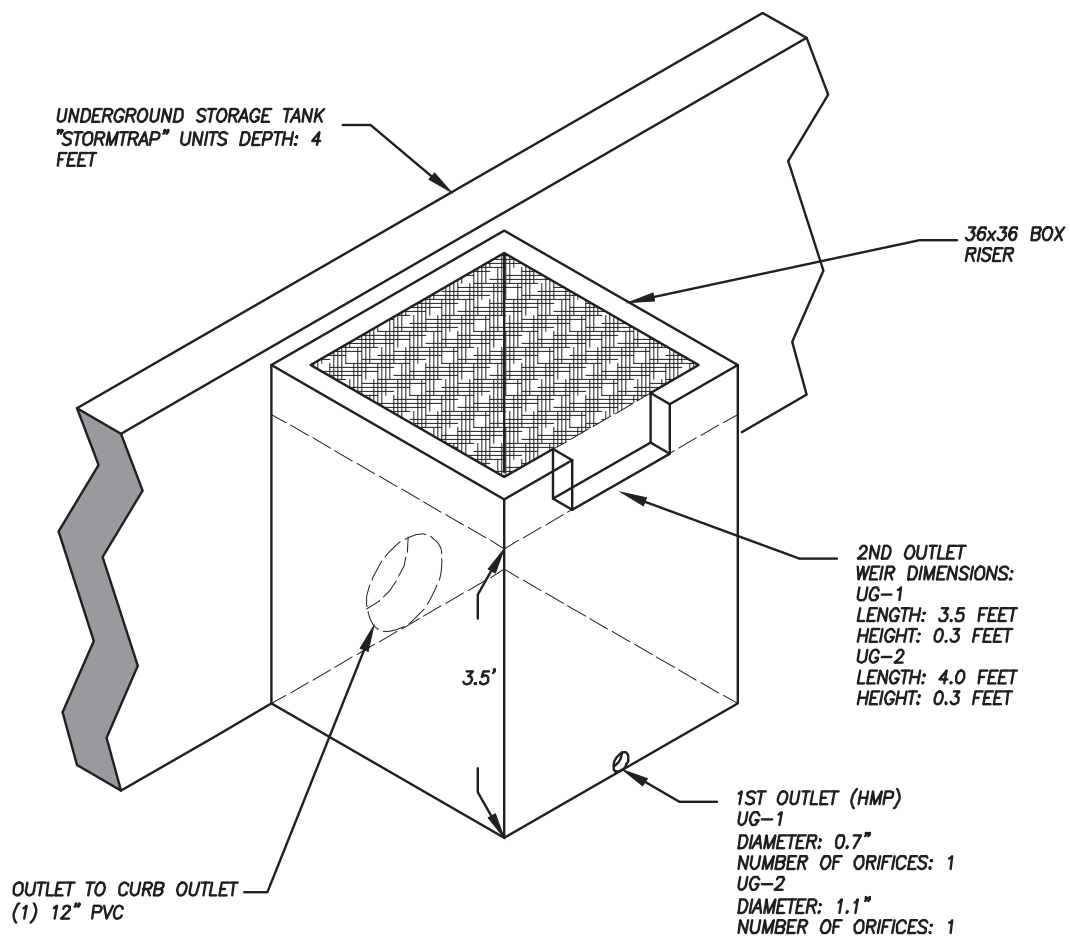
Provide drawdown calculations

☰ Number: 1 Author: bryan Subject: Callout Date: 9/26/2022 7:28:49 PM

Please provide naming consistent with the rest of the report

☰ Number: 2 Author: bryan Subject: Callout Date: 9/26/2022 7:28:39 PM

Provide drawdown calculations



OUTLET DETAIL
NTS

Informational comment: at final engineering, this structure will need to be accessible for maintenance



Informational comment: at final engineering, this structure will need to be accessible for maintenance



City of Oceanside – Engineering Division – Clean Water Program
**STORM WATER QUALITY ASSESSMENT FOR PLANNING,
ENGINEERING, AND BUILDING PERMIT APPLICATIONS**

Section 3 – Identify Projects Not Subject to Permanent Stormwater Requirements (Check All Boxes that Apply)	
☐	The project consists of work entirely within an existing structure.
☐	The project consists of construction of overhead or underground utilities (no new impervious surfaces).
☐	The project consists of routine maintenance.
☐	The project consists of less than 50 yards of grading and presents no opportunities to improve water quality.
Section 4 – Project Category Determination	
☒	Priority Development Project: If any item in Section 2 is applicable, the project is a Priority Development Project. <u>Please prepare a PDP SWQMP for the project.</u>
☐	Standard Development Project: If none of the items in Section 2 or 3 are applicable, the project is a Standard Development Project. <u>Please prepare an SDP SWQMP.</u>
☐	Project Not Subject to Permanent Stormwater Requirements: If any item in Section 3 is applicable, the project is not subject to Permanent Stormwater Requirements. <u>Please submit the project plans with this form.</u> Note: Projects in this category are subject to typical pollution prevention measures outlined by the pollution prevention checklist on the following page.
Section 5 – Applicant Certification	
Name of Responsible Party: NEPTUNE INVESTMENTS LLC - REZA SHERA	Title: PRESIDENT
Email Address (optional)	Phone Number: 858-401-9090
I understand and acknowledge the City of Oceanside has adopted minimum requirements, as mandated by the San Diego Regional Water Quality Control Board – Order No. R9-2013-0001, as amended by Order Nos. R9-2015-0001 and R9-2015-0100 (NPDES NO. CAS0109266) for mitigating impacts associated with urban runoff, including storm water from construction and land development activities. I certify this assessment has been accurately completed to the best of my knowledge and is consistent with the proposed project. I acknowledge that non-compliance with the City Best Management Practice (BMP) Design Manual, Grading Ordinance, and Erosion Control Ordinance may result in enforcement action by the City, the California State Water Resources Control Board, and/or the San Diego Regional Water Quality Control Board. Enforcement action may include stop work orders, notice of violation, fines, or other actions.	
Applicant Signature:	Date: 05/23/2022

Provide signed form ¹



Number: 1

Author: bryan

Subject: Text Box

Date: 9/26/2022 7:33:01 PM

Provide signed form