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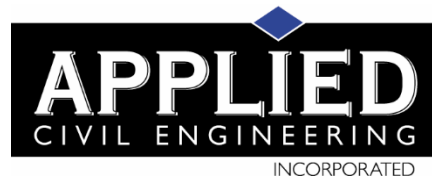
Stormwater Control Plan

Stormwater Control Plan for a Regulated Project

A&B Vineyards LLC
5215 Solano Avenue, Napa County
Napa, CA 94558
APN 34-190-040

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1/06/2023

Date



This Stormwater Control Plan was prepared using the template by Dan Cloak Environmental Consulting dated July 2014.

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Project Data

Table I. Project Data Form

Project Name/Number	A&B Vineyards Winery
Application Submittal Date	January 2023
Project Location	5215 Solano Avenue Napa, CA 94558 APN 034-190-040
Project Phase No.	2
Project Type and Description	New winery fermentation, barrel storage, and tasting room added to building with associated site improvements.
Total Project Site Area (acres)	2 +/- (total disturbed area)
Total New and Replaced Impervious Surface Area	0.07 acres (approximate)
Total Pre-Project Impervious Surface Area	1.31 acres (approximate)
Total Post-Project Impervious Surface Area	1.38 acres (approximate)

I. Setting

I.A. Project Location and Description



Figure I: Location Map

A & B Vineyards LLC is applying for a Use Permit Modification to add features to the winery facility and utility infrastructure in construction at their property located at 5215 Solano Avenue in Napa County, California. The subject property, known as Napa County Assessor's Parcel Number 034-190-040, is located along the southwest side of Solano Avenue, North of the City of Napa, approximately 740 feet south of the intersection of Solano Avenue and Darms Lane.

The roughly 10.1 acre parcel is zoned Agricultural Preserve (AP). Topography can be described as gentle with average slopes less than 5%. The United States Department of Agriculture Soil Conservation Service Soils Map for Napa County shows two soil types mapped on the property. The northeasterly areas with flatter topography are mapped as Cortina very stony loam, 0 to 5 percent slopes. The northerly areas along Dry Creek are mapped as Riverwash and the remainder of the property is mapped as Pleasanton loam, 0 to 2 percent slopes. All proposed above ground site improvements are located within the Pleasanton soils area (HSG C).

Existing development on the property includes groundwater wells, vineyards and the access and utility infrastructure typical of this type of agricultural development.

Runoff from the property generally flows from west to east. Runoff concentrates in a roadside swale at Solano Avenue that runs northerly and is tributary to Dry Creek which is tributary to the Napa River.

Proposed onsite improvements include additional barrel storage and fermentation rooms, a tasting room, covered patio, and changes to the mechanical yard.

Please see the A & B Vineyards LLC Use Permit Modification Conceptual Site Improvement Plans for approximate locations of existing and proposed features.

I.B. Opportunities and Constraints for Stormwater Control

Opportunities for stormwater control include:

1. The moderately sloping topography will allow roof and impervious area runoff to be routed to treatment areas at lower elevations
2. Large vegetated buffers between all site improvements and drainage ways.

Constraints for stormwater control include:

1. The near surface soils have a slow infiltration rate (HSG C).
2. Existing vineyard areas to be preserved.

II. Low Impact Development Design Strategies

II.A. Optimization of Site Layout

II.A.1. Limitation of development envelope

- The original winery building footprint and outdoor patio areas are being developed on areas that are already improved with agricultural development.
- Nearly all of the new impervious surfaces were accounted for in previous approvals for the winery, reserving areas for these additions to the winery. Since an increase of 50% of impervious surface is not proposed, a hydromodification analysis has not been prepared.
- The proposed buildings and access roads have been carefully designed to preserve natural vegetation and vineyards on the property and no tree removal is proposed.

II.A.2. Preservation of natural drainage features

All natural drainage features on the property will be preserved. Proposed work within the creek setback will be minimized and generally involve new landscape planting.

II.A.3. Setbacks from creeks, wetlands, and riparian habitats

The project has been designed with respect to stream setbacks as required by the Napa County Conservation Regulations. A setback is shown along Dry Creek located just north of the winery.

II.A.4. Minimization of imperviousness

All access ways and parking areas have been designed to the minimum Napa County width standards and will not be excessively large. This ensures that excess impervious surfaces are not created. The new buildings have been carefully designed to house the required functions with the minimum footprint necessary.

II.A.5. Use of drainage as a design element

Drainage design has been coordinated with the landscape design to provide an aesthetically pleasing site layout that addresses stormwater control requirements.

II.B. Use of Permeable Pavements

Permeable pavements are not proposed, however the use of DG for convenience paths instead of concrete is noted on landscape plans.

II.C. Dispersal of Runoff to Pervious Areas

The site layout and topography will allow for dispersal of runoff from impervious surfaces to pervious areas.

II.D. Stormwater Control Measures

Runoff from all impervious areas at the building site, including roofs and paved areas in the immediate vicinity of the winery facility, will be routed to a single bioretention facility as shown on the Stormwater Control Plan Exhibit. The facility will be designed and constructed to the criteria in the BASMAA Post-Construction Manual (2019), including the following features:

- Surrounded by a compacted soil berm.
- Each layer built to the elevations specified in the plans and referenced details:
 - Bottom of Gravel Layer (BGL)
 - Top of Gravel Layer (TGL)
 - Top of Soil Layer (TSL)
 - Overflow Grate
 - Facility Rim
- 12 inches of Class 2 permeable rock, Caltrans specification 68-2.02F(3)
- 18 inches sand/compost mix meeting BASMAA specifications
- 6-inch-deep reservoir between top of soil elevation and overflow elevation
- Drain inlet with frame overflow structure, with grate set to specified elevation, connected to storm drain (overflow used where storm drain connection is available and omitted where no storm drain exists)
- Plantings selected for water conservation
- Irrigation system on a separate zone, with drip emitters and “smart” irrigation controllers

- Sign identifying the facility as a stormwater treatment facility.

III. Documentation of Drainage Design

III.A. Descriptions of Each Drainage Management Area

III.A.1. Table of Drainage Management Areas

DMA Name	Surface Type	Area (square feet)
DMA #1	Winery building roofs, asphalt some roadway improvements, and concrete production areas	38,868 +/-
DMA #2	Rear yard mechanical area	5,310 +/-
DMA #3	Front parking area	6,660 +/-
DMA #4	Driveway	17,829 +/-

III.A.2. Drainage Management Area Descriptions

DMA #1, totaling 38,868 square feet, consists of the winery building roofs, driveway turnaround, concrete work areas, a portion of the winery driveway, and landscape areas. DMA #1 drains to Bioretention Area #1.

DMA #2, totaling 5,310 square feet, consists of rear yard mechanical yard and access areas that cannot be intercepted at Bioretention Area #1 due to the elevation of the surfaces and linear and scattered nature. DMA #2 drains to Vegetated Receiving Area #2.

DMA #3, totaling 6,660 square feet, consists of the winery parking area that cannot be intercepted at Bioretention Area #1 due to the geometric constraints on the size of the bioretention area. DMA #4 drains to Vegetated Receiving Area #3.

DMA #4, totaling 17,829 square feet, consists of the winery driveway that cannot be intercepted at Bioretention Area #1 due to the elevation of the road and linear nature. DMA #4 drains to Vegetated Receiving Area #4.

III.B. Tabulation and Sizing Calculations

III.B.1. Information Summary for Bioretention Facility Design

DMA #1	38,868 +/-
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III.B.2. Self-Treating Areas

DMA Name	Area (square feet)
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N/A	
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III.B.3. Self-Retaining Areas

DMA Name	Area (square feet)
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N/A	

III.B.4. Vegetated Receiving Areas

DMA Name	Area (square feet)
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VRA #2	2,655
VRA #3	3,265
VRA #4	12,918

Areas Draining to Self-Retaining Areas

DMA Name	Area (square feet)	Post-project surface type	Runoff factor	Product (Area x runoff factor)[A]	Receiving self-retaining DMA	Receiving self-retaining DMA Area (square feet) [B]	Ratio [A]/[B]
None							

III.B.5. Areas Draining to Bioretention Facilities

DMA Name	DMA Area (square feet)	Post-project surface type	DMA Runoff factor	DMA Area x runoff factor	Facility Name		
					Bioretention Area #1		
DMA #1	32,961	Impervious	1.0	32,961	Sizing factor	Min Facility Size	(P) Facility Size
DMA #1	5,910	Permeable	0.1	591			
Total=				33,552	0.04	1342	1350

Areas Draining to Vegetated Receiving Areas

DMA Name	Area (square feet)	Post-project surface type	Runoff factor	Product (Area x runoff factor)[A]	Vegetated receiving area DMA	Receiving self-retaining DMA Area (square feet) [B]	Ratio [A]/[B]<2
DMA#2	5,310	Imperv	1	5,310	VRA#2	2,731	1.9
DMA#3	6,660	Imperv	1	6,660	VRA#3	3,265	2
DMA#4	17,829	Imperv	1	17,829	VRA#4	12,918	1.4

IV. Source Control Measures

IV.A. Site activities and potential sources of pollutants

IV.B. Source Control Table

Potential source of runoff pollutants	Permanent source control BMPs	Operational source control BMPs
<input checked="" type="checkbox"/> Storm Drain Inlets	<input checked="" type="checkbox"/> Mark all inlets with the words "No Dumping! Drains to Waterway" or similar.	<input checked="" type="checkbox"/> Maintain and periodically repaint or replace inlet markings. <input checked="" type="checkbox"/> Provide stormwater pollution prevention information to all onsite personnel. <input checked="" type="checkbox"/> See applicable BMPs in Fact Sheet SC-44, "Drainage System Maintenance" in the CASQA Stormwater Quality Handbook at: www.casqa.org/resources/bmp-handbooks <input checked="" type="checkbox"/> Include the following in lease agreements (if facility is leased): "Tenant shall not allow anyone to discharge anything to the storm drains or to store or deposit materials so as to create a potential discharge to storm drains."
<input checked="" type="checkbox"/> Interior Floor Drains and Elevator Shaft Pumps	<input checked="" type="checkbox"/> All interior floor drains will be plumbed to the sanitary sewer.	<input checked="" type="checkbox"/> Inspect and maintain drains to prevent blockage and overflow.

<input type="checkbox"/> Interior Parking Garages	<input type="checkbox"/> Parking garage floor drains will be plumbed to the sanitary sewer	<input type="checkbox"/> Inspect and maintain drains to prevent blockage and overflow.
<input checked="" type="checkbox"/> Indoor and Structural Pest Control	<input checked="" type="checkbox"/> Buildings will be designed to meet applicable code requirements to discourage entry of pests.	<input checked="" type="checkbox"/> Provide Integrated Pest Management information to Owners, lessees and operators.
<input checked="" type="checkbox"/> Landscape / Outdoor Pesticide Use / Building and Grounds Maintenance	<p><input checked="" type="checkbox"/> Landscape will be designed to accomplish the following:</p> <p>Preserve existing native trees, shrubs and groundcover to the maximum extent practicable.</p> <p>Minimize irrigation and runoff, promote surface infiltration where appropriate and to minimize the use of fertilizers and pesticides that can contribute to stormwater pollution.</p> <p>Where landscape areas are used to retain or detain stormwater plants that are tolerant of saturated soil conditions will be used.</p> <p>Pest resistant plants will be specified where practicable.</p> <p>Plants will be selected for site soils, slopes, climate, sun, wind, rain, land use, air movement, ecological consistency and plant interactions.</p>	<p><input checked="" type="checkbox"/> Maintain landscaping using the minimum required or no pesticides and fertilizers.</p> <p><input checked="" type="checkbox"/> See applicable operational BMPs in Fact Sheet SC-4I, "Building and Grounds Maintenance" in the CASQA Stormwater Quality Handbook at: www.casqa.org/resources/bmp-handbooks</p> <p><input checked="" type="checkbox"/> Provide IPM information to new owners, lessees and operators.</p>

<input checked="" type="checkbox"/> Pools, Spas, Ponds, Decorative Fountains and other Water Features	<input checked="" type="checkbox"/> Do not connect to onsite wastewater disposal systems. Drain to landscape area for infiltration	<input checked="" type="checkbox"/> See applicable operational BMPs in Fact Sheet SC-72, "Fountain and Pool Maintenance" in the CASQA Stormwater Quality Handbook at: www.casqa.org/resources/bmp-handbooks
<input type="checkbox"/> Food Service	<input type="checkbox"/> Restaurants, grocery stores and other food service operations will have a floor sink or other area for cleaning floor mats, containers and equipment located either indoors or in a covered area outdoors.	<input type="checkbox"/> Drain must be connected to grease interceptor and grease interceptor must be pumped whenever solids accumulate to 35% of total tank capacity.
<input checked="" type="checkbox"/> Refuse Areas	<input checked="" type="checkbox"/> Refuse and recycling will be collected in the trash enclosure. The enclosure will be fenced to prevent dispersal of materials. If covered, the area will be drained to the sanitary sewer system. If not covered, all bins will have water tight lids. Adjacent areas will be graded to prevent run-on.	<input checked="" type="checkbox"/> Refuse area must be patrolled and cleaned regularly.
<input checked="" type="checkbox"/> Industrial Processes	<input checked="" type="checkbox"/> All winery processing activities to be performed indoors or outdoors under roof. No processes to drain to exterior or to storm drain system.	<input checked="" type="checkbox"/> See Fact Sheet SC-10, "Non-Stormwater Discharges" in the CASQA Stormwater Quality Handbooks at: www.casqa.org/resources/bmp-handbooks

<input checked="" type="checkbox"/> Outdoor Storage (Equipment or Materials)	<input checked="" type="checkbox"/> All winemaking materials to be used onsite are to be unloaded and immediately moved to a covered area to minimize exposure to rainfall. <input checked="" type="checkbox"/> Material deliveries shall be scheduled for times when it is not raining to minimize exposure to rainfall. <input checked="" type="checkbox"/> Facility shall comply with Napa County requirements for Hazardous Waste Generation, Storage and Disposal, Hazardous Materials Release Response and Inventory, California Accidental Release (CalARP) and Uniform Fire Code Article 80 Section 103(b) & (c) 1991	<input checked="" type="checkbox"/> See the Fact Sheets SC-31, "Outdoor Liquid Container Storage" and SC-33, "Outdoor Storage of Raw Materials" in the CASQA Stormwater Quality Handbooks at: www.casqa.org/resources/bmp-handbooks
<input checked="" type="checkbox"/> Vehicle and Equipment Cleaning	<input checked="" type="checkbox"/> No vehicle or equipment washing will be performed onsite. All employees will be informed that car washing is prohibited.	<input checked="" type="checkbox"/> Not Applicable
<input checked="" type="checkbox"/> Vehicle and Equipment Repair and Maintenance	<input checked="" type="checkbox"/> No vehicle or equipment repairs will be performed onsite. All employees will be	<input checked="" type="checkbox"/> Notify all future owners, lessees and operators that the following restrictions apply to this site:

	<p>informed that vehicle maintenance onsite is prohibited.</p>	<p><input checked="" type="checkbox"/> No person shall dispose of, nor permit the disposal, directly or indirectly of vehicle fluids, hazardous materials, or rinse water from parts cleaning into storm drains.</p> <p><input checked="" type="checkbox"/> No vehicle fluid removal shall be performed outside a building, nor on asphalt or ground surfaces, whether inside or outside a building, except in such a manner as to ensure that any spilled fluid will be in an area of secondary containment. Leaking vehicle fluids shall be contained or drained from the vehicle immediately.</p> <p><input checked="" type="checkbox"/> No person shall leave unattended parts or other open containers containing vehicle fluid, unless such containers are in use or in an area of secondary containment.</p>
<p><input type="checkbox"/> Fuel Dispensing Areas</p>	<p>No vehicle fueling will be performed onsite. All employees will be informed that vehicle fueling onsite is prohibited.</p>	<p><input type="checkbox"/> The property owner, lessee or operator, as applicable, shall dry sweep the fueling area routinely.</p> <p><input type="checkbox"/> See the Business Guide Sheet, “Automotive Service—Service Stations” in the CASQA Stormwater Quality Handbooks at: www.casqa.org/resources/bmp-handbooks</p>
<p><input type="checkbox"/> Loading Docks</p>	<p><input type="checkbox"/> Loading docks shall be covered and graded to minimize run-on to and runoff from the loading area.</p> <p><input type="checkbox"/> Roof downspouts shall be positioned to direct stormwater away from the loading area.</p> <p><input type="checkbox"/> Water from loading dock areas shall be drained to a containment system that is pumped</p>	<p><input type="checkbox"/> Move loaded and unloaded items indoors as soon as possible. See Fact Sheet SC-30, “Outdoor Loading and Unloading” in the CASQA Stormwater Quality Handbooks at: www.casqa.org/resources/bmp-handbooks</p>

	regularly to avoid overflows.	
<input checked="" type="checkbox"/> Fire Sprinkler Test Water	<input checked="" type="checkbox"/> Provide a means to drain fire sprinkler test water to infiltrate into landscaping and not discharge to the storm drain.	<input checked="" type="checkbox"/> See the note in Fact Sheet SC-41, "Building and Grounds Maintenance," in the CASQA Stormwater Quality Handbooks at: www.casqa.org/resources/bmp-handbooks
Miscellaneous Drain, Wash Water or Other Sources <input checked="" type="checkbox"/> Boiler Drain Lines <input checked="" type="checkbox"/> Condensate Drain Lines <input checked="" type="checkbox"/> Rooftop Equipment <input type="checkbox"/> Drainage Sumps <input checked="" type="checkbox"/> Roofing, Gutters and Trim <input type="checkbox"/> Other:	<input checked="" type="checkbox"/> Boiler drain lines shall be directly or indirectly connected to the sanitary sewer system and may not discharge to the storm drain system. <input checked="" type="checkbox"/> Condensate drain lines may discharge to landscaped areas if the flow is small enough that runoff will not occur. <input checked="" type="checkbox"/> Condensate drain lines may not discharge to the storm drain system. <input checked="" type="checkbox"/> Rooftop equipment with potential to produce pollutants shall be roofed and/or have secondary containment. <input type="checkbox"/> Any drainage sumps on-site shall feature a sediment sump to reduce	If architectural copper is used, implement the following BMPs for management of rinsewater during installation: <input type="checkbox"/> If possible, purchase copper materials that have been pre-patinated at the factory. <input type="checkbox"/> If patination is done on-site, prevent rinse water from entering storm drains by discharging to landscaping or by collecting in a tank and hauling off-site. <input type="checkbox"/> Consider coating the copper materials with an impervious coating that prevents further corrosion and runoff. <input type="checkbox"/> Implement the following BMPs during routine maintenance: <input type="checkbox"/> Prevent rinse water from entering storm drains by discharging to landscaping or by collecting in a tank and hauling offsite.

	the quantity of sediment in pumped water. <input type="checkbox"/> Include controls for other sources as specified by local agency.	
<input checked="" type="checkbox"/> Plazas, Sidewalks and Parking Lots	None.	<input checked="" type="checkbox"/> Sweep plazas, sidewalks, and parking lots regularly to prevent accumulation of litter and debris. Collect debris from pressure washing to prevent entry into the storm drain system. Collect washwater containing any cleaning agent or degreaser and haul offsite to municipal waste treatment plant for disposal, do not discharge to a storm drain.

IV.C. Features, Materials, and Methods of Construction of Source Control BMPs

Full design specifications for all source control BMPs will be submitted with the building permit drawing package.

V. Stormwater Facility Maintenance

V.A. Ownership and Responsibility for Maintenance in Perpetuity

The Applicant must commit to executing a Post Construction Stormwater BMP Maintenance Agreement which will be recorded with Napa County. This agreement will obligate the applicant to accept responsibility for operation and maintenance of stormwater treatment and flow-control facilities in perpetuity or until such time as this responsibility is formally transferred to a subsequent property owner.

V.B. Summary of Maintenance Requirements for Each Stormwater Facility

The bioretention facilities will be maintained on the following schedule at a minimum. Details of maintenance responsibilities and procedures will be included in a Stormwater Facility Operation and Maintenance Plan to be submitted for approval prior to the completion of construction.

At no time will synthetic pesticides or fertilizers be applied, nor will any soil amendments, other than aged compost mulch or sand/compost mix, be introduced.

Daily: The facilities will be examined for visible trash during regular policing of the site, and trash will be removed.

After Significant Rain Events: A significant rain event is one that produces approximately a half-inch or more rainfall in a 24-hour period. Within 24 hours after each such event, the following will be conducted:

The surface of the facility will be observed to confirm there is no ponding.

- Inlets and outlets will be inspected, and any accumulations of trash or debris will be removed.
- The surface of the mulch layer will be inspected for movement of material. Mulch will be replaced and raked smooth if needed.

Prior to the Start of the Rainy Season: In September or each year, the facility will be inspected to confirm there is no accumulation of debris that would block flow, and that growth and spread of plantings does not block inlets or the movement of runoff across the surface of the facility.

Annual Landscape Maintenance: In December – February of each year, vegetation will be cut back as needed, debris removed, and plants and mulch replaced as needed. The concrete work will be inspected for damage. The elevation of the top of soil and mulch layer will be confirmed to be consistent with the 6-inch reservoir depth.

VI. Construction Checklist

Stormwater
Control

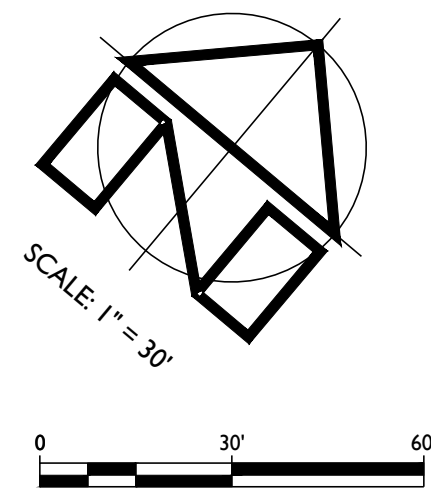
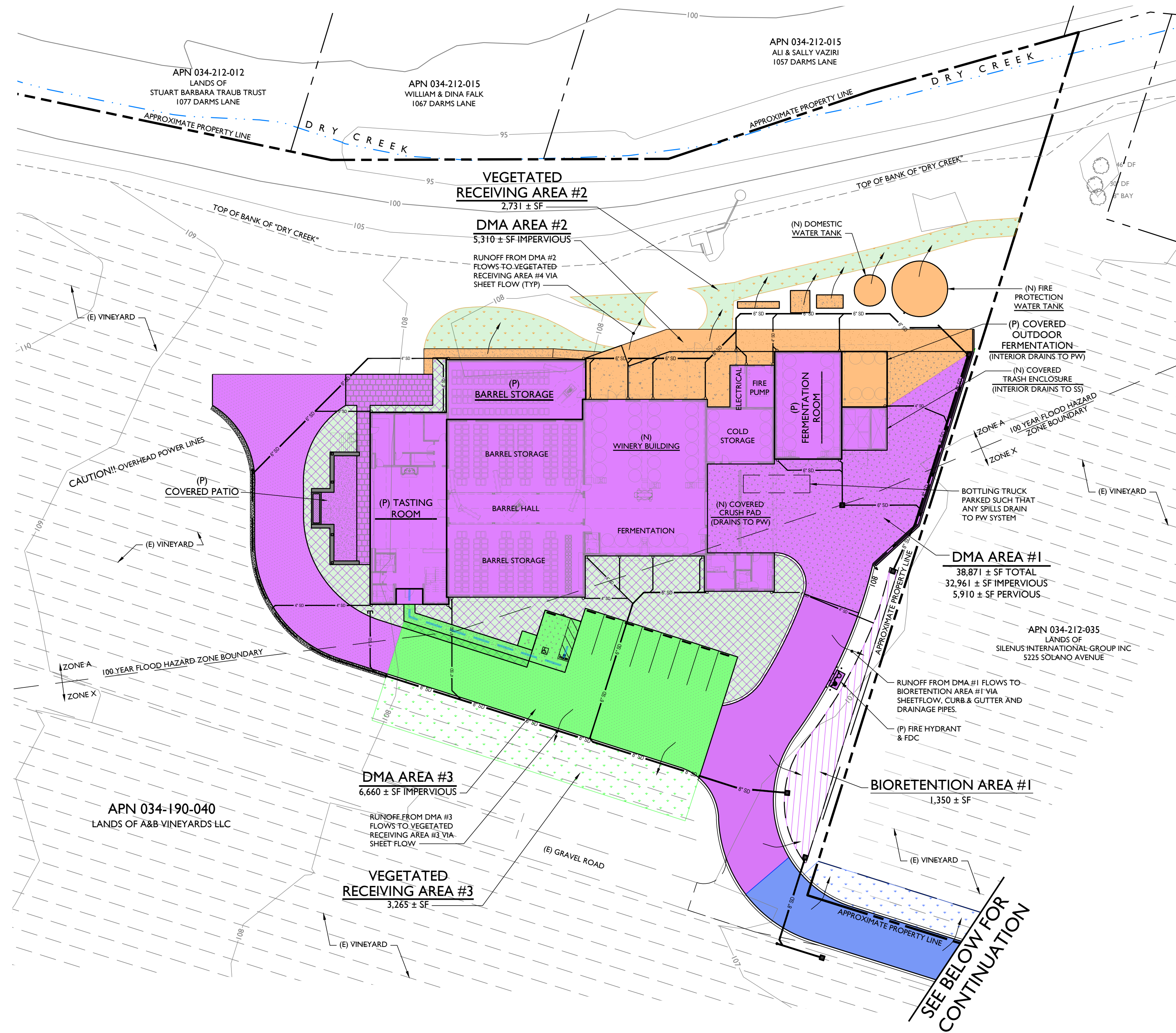
Plan Source Control or Treatment Control
Page # Measure

I	Bioretention Area #1	
I	Storm Drain Inlets	
I	Interior Floor Drains and Elevator Shaft Pumps	
N/A	Interior Parking Garages	
I	Indoor and Structural Pest Control	
I	Landscape / Outdoor Pesticide Use / Building and Grounds Maintenance	
N/A	Pools, Spas, Ponds, Decorative Fountains and other Water Features	
N/A	Food Service	
I	Refuse Areas	
I	Industrial Processes	

I	Outdoor Storage (Equipment or Materials)	
N/A	Vehicle and Equipment Cleaning	
N/A	Vehicle and Equipment Repair and Maintenance	
N/A	Fuel Dispensing Areas	
N/A	Loading Docks	
I	Fire Sprinkler Test Water	
I	Miscellaneous Drain, Wash Water or Other Sources Boiler Drain Lines Condensate Drain Lines Rooftop Equipment Drainage Sumps Roofing, Gutters and Trim Other:	
I	Plazas, Sidewalks and Parking Lots	

VII. Certifications

This preliminary design of stormwater treatment facilities and other stormwater pollution control measures in this plan are intended to be in accordance with the current edition of the BASMAA Post-Construction Manual as required by Napa County.

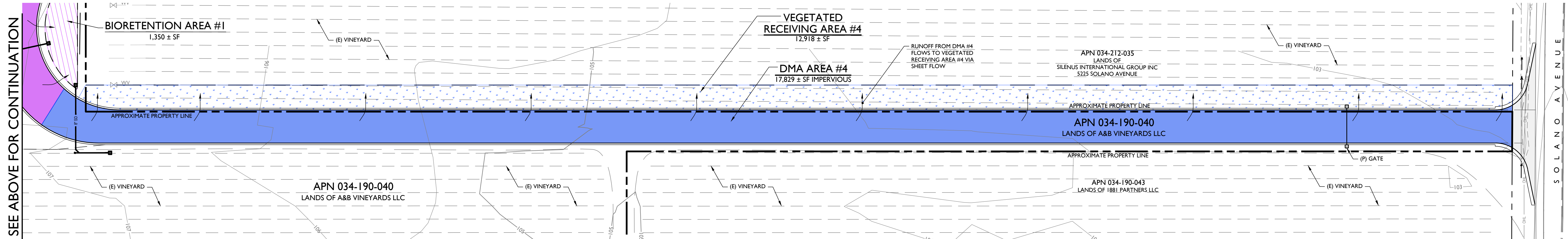
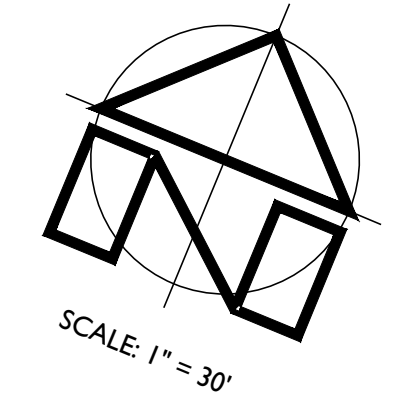


DMA LEGEND:

- SHEET FLOW DIRECTION
- IMPERVIOUS AREA (COLOR VARIES BY DMA)
- PERVIOUS AREA (COLOR VARIES BY DMA)
- VEGETATED RECEIVING AREA (COLOR VARIES BY DMA)
- BIORETENTION AREA (COLOR VARIES BY DMA)

SURFACE LEGEND:

- PROPOSED HEAVY DUTY PCC PAVING
- PROPOSED LIGHT DUTY PCC PAVING
- PROPOSED GRAVEL PAVING
- PROPOSED CHIP SEAL PAVING
- PROPOSED ASPHALT CONCRETE PAVING
- PROPOSED DECOMPOSED GRANITE PAVING
- PROPOSED ROCK
- PROPOSED PAVERS SET IN CONCRETE



STORMWATER CONTROL PLAN

SCALE: 1" = 30'

PREPARED UNDER THE DIRECTION OF:



DRAWN BY: PowerCAD LLC

CHECKED BY: MRM

DATE: MARCH 10, 2023

REVISIONS: 3/10/2023 BY: YMS
PERMIT SUBMITTAL

JOB NUMBER: 20-139

FILE: 20-139EXH-SCP.DWG

ORIGINAL SIZE: 24" X 36"

SHEET NUMBER:

C7

OF

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