



Model Water Efficient Landscape Ordinance (MWELO)

What is MWELO?

The Model Water Efficient Landscape Ordinance is a statewide water conservation law for new and renovated landscapes. The ordinance applies to any single-family or multi-family residential, public, institutional, or commercial project that requires a permit, plan check or design review from the local reviewing agency and meets one of the following size thresholds:

- **New construction projects** with a total landscape area greater than **500 sq ft**
- **Rehabilitations of existing landscape** with a total landscape area greater than **2,500 sq ft**

Submittal Requirements

Prescriptive Compliance Option

If your development proposes less than 2,500 square feet of total landscape area you can use the prescriptive compliance option. **Before construction**, submit the following documents to the local reviewing agency:

- Landscape Design Plan
- Project Information
- Prescriptive Path (Appendix D) Checklist

At the final inspection, submit the following document to the property owner:

- Certificate of Completion
- Certificate of Installation
- Irrigation Schedule
- Schedule of landscape and Irrigation Maintenance

Performance Compliance Option

Prior to landscape construction, submit a signed **Landscape Documentation Package** along with your building permit application.

This includes:

- Project Information
- Water Budget/Water Use Calculator
- Soil Management Report
- Landscape Design Plan, Plant Legend and Specifications
- Irrigation Plan
- Hydrozone Plan
- Grading Plan

After the permit is approved and the landscape installed, submit a **Certificate of Completion** which includes:

- Project Information
- Certification that landscape is built per plans
- As-built drawings (if necessary to show major changes)
- Irrigation diagram showing hydrozones
- Irrigation scheduling parameters
- Landscape and Irrigation Maintenance Schedule
- Irrigation Audit Report
- Soil Report (if not submitted during design)
- Verification of implementation of report recommendations



COUNTY OF HUMBOLDT
PLANNING AND BUILDING DEPARTMENT
BUILDING DIVISION

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MWELo PERFORMANCE COMPLIANCE

**APPLICATION SECTION FOR LANDSCAPE DOCUMENTATION PACKAGE
(REQUIRED FOR MWELo)**

SECTION IV
LANDSCAPE DOCUMENTATION

Currently, this project **does not** include irrigated landscaping. I am aware that future landscape installations may be required to comply with the Model Water Efficient Landscape Ordinance (MWELo) requirements per California Code of Regulations, Title 23, Division 2, Chapter 2.7.

This project **does** incorporate irrigated landscaping. Please provide the information below specific to the landscape area which will be completed as part of this project and specify the compliance method to be used:

Total Landscape Area (sq. ft.)(Turf+Non-Turf+Special): _____

Turf Area (sq. ft.): _____

Non-Turf Plan Area (sq. ft.): _____

Special Landscape Area (sq. ft.): _____

Water Type (*potable, recycled, well*): _____

Name of water purveyor (*If not served by private well*): _____

Compliance Method

- Less than 500 square feet of irrigated landscaping (exempt from MWELo)
- No irrigation system proposed (exempt from MWELo)
- Prescriptive (500 - 2,500 square feet)
- Performance (2,500 square feet or greater)

Signature

I certify the above information is correct and agree to comply with the requirements of the MWELo.

Signature of property owner or authorized representative

Date



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Instruction

1. Complete the "Landscape Documentation Review Package (A - Q)" before permit issuance as part of your submittal package.
2. After permit issuance and during construction, keep this document on-site for inspection. Be aware of the "Additional Submittals" described in Section Q of the Landscape Documentation Review Package.
3. Provide "Additional Submittals" as required by Section Q of the Landscape Documentation Review Package.
4. Note Required Changes, Questions, and Comments (pg. 12).
5. Complete the "Certificate of Completion (A- H)".
6. At final inspection complete the "Irrigation Audit (A - G)".

Note: Use the "Applicant" checkbox on the left side of the checklist to certify compliance. Leave the "Reviewer" checkboxes at the right side of the checklist blank.



Landscape Documentation Package Review

A. Project Location

Project Street Address _____
Project City, State, Zip _____
Parcel or lot number(s) if available _____

B. Application Information

Submittal Date _____
Application Number _____

C. Applicant Information

Applicant Name _____
Title _____
Company _____
Phone Number _____
Email Address _____
Street Address _____
City, State, Zip _____

D. Property Owner (or Designee) Information

Name _____
Title _____
Company _____
Phone Number _____
Fax Number _____
Email Address _____
Street Address _____
City, State, Zip _____



E. Project Type & Size

The information in this section must be provided in an annual report from the permitting agency to the State Department of Water Resources.

Total Landscape Area _____

- New Construction or Renovation/Rehabilitation
- Public or Private
- Single-family Residential
- Stand-alone Dwelling
- Landscape Architect/Designer
- Home Owner Installed
- Production Homes, Number of Units: _____
- Commercial/Institutional
- Cemetery
- Multifamily Residential Number of Units: _____

F. Water Supply Type

Types of water used for irrigation (Check all that apply)

- Potable
- Recycled water from a municipal source
- Well water
- On-site greywater
- On-site rainwater

Name of Water Purveyor (if applicable) _____



G. Landscape Documentation Package Submittals

APPLICANT	ITEM	REVIEWER		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. Project Information	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	2. Water Budget/Water Use Calculator	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	3. Soil Management Report (if significant mass grading is planned, submit after construction)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	4. Landscape Design Plan, plant legend and specifications	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. The following statement is on the plan and signed by the appropriate party: "I have complied with the criteria of the ordinance and applied them for the efficient use of water in the Landscape Design Plan."	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	5. Irrigation Design Plan	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. The following statement is on the plan and signed by the appropriate party: "I have complied with the criteria of the ordinance and applied them for the efficient use of water in the Irrigation Design Plan."	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	6. Hydrozone Plan (see Irrigation Design Plan or Landscape Design Plan)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	7. Grading Design Plan	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. The following statement is on the plan and signed by the appropriate party: "I have complied with the criteria of the ordinance and applied them for the efficient use of water in the grading design plan."	<input type="checkbox"/>	<input type="checkbox"/>	

"I agree to comply with the requirements of the Water Efficient Landscape Ordinance and submit a complete Landscape Documentation Package"

Signature: _____

Signed by licensed landscape architect or licensed landscape contractor



H. Water Use Worksheet/ Calculator

APPLICANT	ITEM	REVIEWER		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. The Estimated Total Water Use (ETWU) does not exceed the Maximum Applied Water Allowance (MAWA) § 492.6 (a)(1)(A)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	2. ET adjustment factor (ETAF) is 0.55 for residential projects or 0.45 for non-residential projects	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	3. Reference Evapotranspiration (ET _o) is correct for geographic area (Appendix A - Reference Evapotranspiration (ET _o) Table § 492.4 (a)(1))	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	4. Majority of landscape area should have plant factors of low to moderate (0.1 - 0.6)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	5. Verify that Special Landscape Areas (SLA's) have an ETAF of 1.0	<input type="checkbox"/>	<input type="checkbox"/>	
	6. Cross check that the irrigation efficiency (IE) used on the worksheet matches the irrigation being used in the irrigation plan (drip = .81 and spray = .75)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	7. Cross check that SLA's are identified on the landscape plans as areas dedicated solely to edible plants, recreational areas, or areas/water features irrigated with recycled water.	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	8. If swimming pools are in landscape plans, verify the following in the water budget/water use calculator for:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. Residential single family homes: Check that plant factor used = 1.0 and irrigation efficiency = 1.0	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. Non-residential projects and recreational areas of common interest residential developments: Pools may be included as an SLA	<input type="checkbox"/>	<input type="checkbox"/>	

I. Soil Management Report

APPLICANT	ITEM	REVIEWER		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. Attach soil analysis report of the soil in planting areas from a soil lab if there is no mass grading during construction (otherwise submit report after construction with Certificate of Completion)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	2. The soil sample follows laboratory protocol and includes:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. Soil texture	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. Infiltration rate	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	c. pH	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	d. Total soluble salts	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	e. Sodium	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	f. Percent soil organic matter	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	g. Amendment recommendations	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	i. Including use of compost at a minimum of 4 cubic yards per 1,000 sf, OR at a rate sufficient to bring soil organic matter up to 6% by dry weight	<input type="checkbox"/>	<input type="checkbox"/>	



J. Hydrozones (see Landscape Design Plan or Irrigation Design Plan)

APPLICANT	ITEM	REVIEWER		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. Hydrozone information on the water use worksheet/calculator matches landscape plans	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. Hydrozones are delineated and marked by number, letter or other designation	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. Hydrozones are identified as low, moderate, high water or mixed water use	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	c. No hydrozone has a mix of high (PF = 0.7 – 1.0) and low (PF= 0.1 – 0.3) water use plants.	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	d. No plant with a plant factor 0.7 or greater is located in street medians	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	2. Water features shown on landscape plans are included as high water use hydrozones in the plans and in the water budget/water use calculator	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	3. Temporarily irrigated areas are included in the low water use hydrozones on the plans and on the water budget/water use calculator	<input type="checkbox"/>	<input type="checkbox"/>	

K. Landscape Design Plan

APPLICANT	ITEM	REVIEWER		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. Plant legend lists common name, botanical name, quantities, mature plant size, water use or plant factor of each plant, and source of information for plant water use	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	2. Hardscapes are labeled as pervious or non-pervious	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	3. Stormwater treatment areas, including type, size and installation details, are labeled as applicable	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	4. Rain harvesting or catchment technologies are labeled as applicable	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	5. Graywater discharge piping, system components and area(s) of distribution are labeled as applicable	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	6. If SLA's are on the water budget/water use calculator, verify that the plans note the following:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. Recreational areas (excluding private single family residential areas)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. Areas dedicated solely to edible plants	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	c. Areas irrigated with recycled water, if applicable	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	7. Invasive Plants: Plant legend shows no plant species listed by the California Invasive Plant Council's "Don't Plant a Pest" brochure as invasive in the San Francisco Bay Area http://cal-ipc.org/landscaping/dpp/	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	8. Plant factors used on the plant legend are noted from WUCOLS or approved horticultural researchers	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	9. Mature plant spread is noted for each species as well as the published third-party reference	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	10. Plants located adjacent to buildings, sidewalks, roads or obstructions are installed to accommodate their minimum spread according to the plant legend	<input type="checkbox"/>	<input type="checkbox"/>	



L. Water Features (skip if not included)

APPLICANT	ITEM	REVIEWER		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. Water features are shown, including type and surface area	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	2. Notes state "recirculating water systems shall be used for water features"	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	3. Use of recycled water is noted if used	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	4. Single-family residential projects only: new swimming pools are shown as water features and included in water use calculations as a high water use hydrozone	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	5. All other projects: new swimming pools are shown as water features and identified as an SLA	<input type="checkbox"/>	<input type="checkbox"/>	

M. Soil, Compost and Mulch

APPLICANT	ITEM	REVIEWER		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. Mulch: Check that 3 inches of recycled content mulch is specified on planting soil in plans or notes. Exceptions:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. Up to 5% of the landscape area may be left bare to provide habitat for ground dwelling pollinators	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. No mulch is required in turf areas or direct seeding applications	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	c. If hydroseeding, the mulching portion of the slurry meets the mulch requirement	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	d. If wood mulches are prohibited by local fire regulations	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	2. Recycled content mulch is tree trimmings, arbor mulch, pallet mulch or composted mulch.	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	3. Compost: Check notes or specifications to verify compost is applied at a minimum rate of 4 CY/1,000 sf or at a rate to bring soil organic matter up to 6% by dry weight as indicated in Soil Report	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. Construction documents specify that compost is incorporated at least 6 inches deep	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. Check notes or specifications to verify quality organic compost (CDFA-registered Organic Compost or OMRI-certified Compost) is applied.	<input type="checkbox"/>	<input type="checkbox"/>	

N. Irrigation Design Plan

APPLICANT	ITEM	FOR REVIEWER		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. Check for the following notes on the irrigation plans:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. "Pressure regulating devices are required if water pressure is below or exceeds the recommended pressure of the specified irrigation devices."	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. "Check valves or anti-drain valves are required on all sprinkler heads where low point drainage could occur."	<input type="checkbox"/>	<input type="checkbox"/>	



APPLICANT	ITEM	FOR REVIEWER		NOTES
		PASS	FAIL	
<input type="checkbox"/>	c. "Irrigation system is designed to prevent runoff, low head drainage, overspray, or other similar conditions where irrigation water flows onto non-targeted areas."	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	2. Automatic irrigation controllers that are ET-based or soil moisture-based	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	3. Sensors that shut off the irrigation controller during unfavorable weather conditions - sensors for rain, freezing temperatures (if necessary), and wind (if necessary)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	4. Manual shut-off valve (gate, ball, butterfly valve) located as close as possible to the point of connection	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	5. Master shut-off valve. Exception: Individual control of individually pressurized sprinklers in a system with low pressure shut down features	<input type="checkbox"/>	<input type="checkbox"/>	
	6. Check that a dedicated water meter or submeter for the landscape is installed as applicable. Applicability:			
<input type="checkbox"/>	a. Non-residential projects: Greater than 1,000 sf landscape area	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. Residential projects: Greater than 5,000 sf landscape area	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	7. Check for flow sensors for landscapes 5,000 sf or greater	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	8. Check for static water pressure at point of connection	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	9. Location, type and size of the following:			
<input type="checkbox"/>	a. Water meters	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. Backflow prevention devices	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. Main lines	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	c. Lateral lines	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	d. Valves (stations), including:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	i. Flow rate (gpm)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	ii. Application rates (in/hr)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	iii. Design operating pressure (pounds per square inch) for each station	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	e. Sprinkler heads	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	10. No spray heads are located within 24 inches of non-permeable surface	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	11. Sprinkler heads and other emission devices have matched precipitation rates	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	12. Swing joints or other riser protection provided in high traffic areas and areas near hardscape	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	13. Cross-check landscape plan and irrigation plan to verify that low volume irrigation (drip, drip lines, and bubblers) are used in mulched planting areas (no spray irrigation)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	14. Check that planting areas less than 10 feet in width are irrigated with subsurface irrigation or other means that produce no runoff or overspray	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	15. Trees are on separate valves	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	16. Biotreatment areas are on separate valves	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	17. Irrigation design matches hydrozones shown on Landscape Design Plan	<input type="checkbox"/>	<input type="checkbox"/>	

"I have complied with the criteria of the ordinance and applied them accordingly for the efficient use of water in the Irrigation Design Plan."

Signature: _____
Signed by licensed landscape architect, certified irrigation designer or licensed landscape contractor



O. Grading Design Plan

APPLICANT	ITEM	REVIEWER		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. Check the grading plan for the finished configurations and elevations of the landscape area including:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. Height of graded slopes	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. Drainage patterns	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	c. Pad elevations	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	d. Finish grade	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	e. Stormwater retention improvements (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	2. On slopes greater than 25%, cross-check the Irrigation Design Plan to verify:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. Slopes are not irrigated with an application rate exceeding 0.75 inches per hour	<input type="checkbox"/>	<input type="checkbox"/>	

P. Required Statements and Certification

APPLICANT	ITEM	REVIEWER		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. Check for the following notes on plans:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. "A diagram of the irrigation plan showing hydrozones shall be kept with the irrigation controller for subsequent management purposes."	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. "A Certificate of Completion shall be filled out and certified by either the designer of the landscape plans, the designer of the irrigation plans, or the licensed landscape contractor for the project."	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	c. "An irrigation audit report shall be completed at the time of final inspection."	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	d. "A landscape waste diversion plan shall be completed and submitted with the Certificate of Completion."	<input type="checkbox"/>	<input type="checkbox"/>	



Q. Additional Submittals

Applicant: Be prepared to provide these additional submittals at completion of landscape construction:

1. Certificate of Completion
2. Completed Irrigation Audit and documents verifying that recommended repairs were completed.
2. Landscape Waste Diversion Report (can be submitted separately if building construction is a part of the project)
3. "As-builts" or record drawings, if changes were made to approved landscape documents
4. Irrigation schedule, landscape maintenance schedule, landscape irrigation audit report
5. Soil Management Report if not submitted previously and provide documents that soil analysis recommendations were used to amend the planting soil, such as delivery tags and receipts for compost and mulch



Certificate of Completion

A. Project Information

Date _____

Project Name _____

Project Street Address, City and Zip _____

Parcel or Lot Number(s) (if available) _____

Applicant Name _____

Applicant Job Title _____

Applicant Company Name _____

Phone Number _____

Email Address _____

Street Address, City and Zip _____

Property Owner Name _____

Phone Number _____

Email Address _____

Street Address, City and Zip _____

Property Owner:

“I/we certify that I/we have received copies of all the documents within the Landscape Documentation Package and the Certificate of the Completion and that it is our responsibility to see that the project is maintained in accordance with the Landscape and Irrigation Maintenance Schedule.”

Property Owner

Date



B. Certificate of Installation

To be signed by the signer of the Landscape Design Plan or the Irrigation Design Plan or by the licensed landscape contractor

“I/we certify that based upon periodic site observations, the work has been completed in accordance with the ordinance and that the landscape planting and irrigation installation conform with the criteria and specifications of the approved Landscape Documentation Package. As-built drawings have been provided to document any major modifications of the approved Landscape Documentation Package. Significant changes made during construction comply with the ordinance.”

Contractor/Professional Signature

Date

Print Name

License Number



C. Irrigation Scheduling

APPLICANT	ITEM	REVIEWER		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. Irrigation scheduling is regulated by automatic irrigation controller	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	2. Overhead irrigation is scheduled between 8 p.m. and 10 a.m.	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	3. Settings for the irrigation controller for each station include the following:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. Irrigation days	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. Run times	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	c. Number of cycle starts per watering event to avoid run off	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	d. Amount of applied water on a monthly basis	<input type="checkbox"/>	<input type="checkbox"/>	

D. Schedule of Landscape and Irrigation Maintenance

APPLICANT	ITEM	REVIEWER		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. Attach schedule of maintenance for the landscape and irrigation system per ordinance to ensure water efficiency. The attached schedule of landscape maintenance includes:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. Routine inspection, auditing, adjusting and repair of the irrigation system	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. Aerating and dethatching turf areas	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	c. Topdressing planting areas with compost as needed	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	d. Replenishing mulch	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	e. Pruning and weeding	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	f. Routine inspection, auditing, adjusting and repair of the irrigation system	<input type="checkbox"/>	<input type="checkbox"/>	
	<i>(Bay-Friendly Landscape maintenance manual used for the site would satisfy this requirement)</i>			
<input type="checkbox"/>	2. Attach landscape irrigation audit report	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	3. Attach landscape irrigation audit checklist	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	4. The irrigation audit was conducted by a third-party certified Irrigation Auditor professional who is not a part of the design team	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	5. Irrigation items identified for repair in the audit are fixed	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	6. In large project or projects with multiple landscape installations (i.e. production home developments) an auditing rate of 1 in 7 lots or 15% is conducted	<input type="checkbox"/>	<input type="checkbox"/>	



Complete the following sections ONLY if project has submitted the Landscape Documentation Package.

E. Irrigation Audit Report

APPLICANT	ITEM	REVIEWER		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. Audit completed	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	2. Any recommended repairs have been completed	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	3. The Irrigation Audit Report includes:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. Inspection for leaks	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. System tune-up	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	c. Reporting overspray or run off	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	d. An irrigation schedule including configuring controller with application rate, soil types, plant factors, slope, exposure and other factors needed to increase water efficiency	<input type="checkbox"/>	<input type="checkbox"/>	

F. Soil Management Report

APPLICANT	ITEM	REVIEWER		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. Attach soil analysis report of the soil in planting areas from a soil lab if not previously submitted with the Landscape Documentation Package per ordinance.	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	2. The soil sample follows laboratory protocol and includes:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. Soil texture	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. Infiltration rate	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	c. pH	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	d. Total soluble salts	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	e. Sodium	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	f. Percent organic matter	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	g. Amendment recommendations	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	3. Attach document(s) showing that soil analysis report recommendations were used to amend the planting soil, such as delivery tags and receipts for compost and mulch.	<input type="checkbox"/>	<input type="checkbox"/>	



G. Landscape Diversion Report

APPLICANT	ITEM	REVIEWER		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. Attach a construction waste management report for the project that shows at least 50% diversion of construction and demolition debris and 100% diversion of excavated soil and land clearing debris through recycling or reuse. Building debris can be used in calculations.	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	2. Confirm that diversion facilities where collected construction waste material was taken are identified in the waste management report.	<input type="checkbox"/>	<input type="checkbox"/>	

H. Additional Modifications

Applicant: If major modifications were made in construction from the submitted plans, attach record drawings (as-builts)

- No major modifications
- Record drawings (as-builts) attached



Irrigation Audit Checklist

A. Project & Auditor Information

Inspection Date _____

Project Name _____

Project Address _____

Application Number _____

Irrigation Auditor Name _____

Irrigation Auditor Company _____

Irrigation Auditor Address _____

Irrigation Auditor Phone Number _____

Irrigation Auditor Email _____

Auditor Certified by:

- Irrigation Association
- EPA WaterSense program
- Other: _____

Note: For large projects or projects with multiple landscape installations (i.e. production home developments), an auditing rate of 1 in 7 lots or approximately 15% satisfies the audit requirement.



B. Audit Report

APPLICANT	ITEM	AUDITOR		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. Separate landscape customer service water meter or private submeter has been installed as applicable:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. Non-residential projects: Greater than 1,000 sf landscape area	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. Residential projects: Greater than 5,000 sf landscape area	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	2. The irrigation audit report includes:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. System inspection	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. Inspect for leaks	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	c. System tune-up	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	d. Test the operating pressure of the irrigation system	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	e. Test to determine distribution uniformity	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	f. Test to determine precipitation rate of representative overhead irrigation valves	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	g. Confirm matched precipitation rates on valves with sprinkler heads, rotors and other emission devices	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	h. Report of any overspray or broken irrigation equipment	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	i. Report of overspray or run off that causes overland flow	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	j. Written recommendations to improve performance of the irrigation system	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	k. Preparation of an irrigation schedule, including configuring irrigation controllers with application rate, soil types, plant factors, slope, exposure and any other factors necessary for accurate programming	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	l. Other:	<input type="checkbox"/>	<input type="checkbox"/>	



C. Irrigation Equipment

APPLICANT	ITEM	AUDITOR		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. Irrigation equipment is installed (location, type and size) as shown in the approved plans:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. Automatic controller is ET-based or soil moisture-based and includes:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	I. Irrigation scheduling parameters	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	II. Hydrozone map	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. Sensors installed include rain, frost (if necessary) and wind sensors (if necessary)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	c. Point of connection includes:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	I. Backflow prevention devices (if necessary)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	II. Manual shut-off valve (gate, ball, butterfly valve)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	III. Master shut-off valve	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	IV. Flow sensor for landscapes over 5,000 sf only	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	d. Valves (station)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	I. Flow rate (gpm)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	II. Application rates (in/hr)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	III. Design operating pressure:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	e. If static pressure is above or below required dynamic pressure of the system, pressure-regulating devices are installed	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	2. Main and lateral lines	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	3. Sprinkler heads	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. No spray heads within 24 inches of non-permeable surface	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. Sprinkler heads and other emission devices have matched precipitation rates	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	c. Swing joints or other riser protection provided in high traffic areas and areas near hardscape	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	4. Low volume irrigation (drip, drip lines, and bubblers) is used in mulched planting areas (no spray irrigation) and in areas less than 10 feet wide	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	5. Slopes greater than 25% are irrigated with an application rate not exceeding 0.75 inches per hour	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	6. Runoff, low head drainage, overspray, or other similar conditions where irrigation water flows onto non-targeted areas are prevented	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	7. Check valves or anti-drain valves are installed to prevent low head drainage	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	8. Pressure regulating devices are used if the static water pressure at the connection of the public water system does not match the water pressure needs of the irrigation system	<input type="checkbox"/>	<input type="checkbox"/>	



D. Hydrozones

APPLICANT	ITEM	AUDITOR		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. Match on the landscape plan and irrigation plan	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	2. Are irrigated by valves with similar site, slope, sun exposure, soil conditions, and plant materials with similar water use	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	3. Trees are on separate valves	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	4. Biotreatment areas are on separate valves	<input type="checkbox"/>	<input type="checkbox"/>	

E. Water Features

APPLICANT	ITEM	AUDITOR		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. Use recirculating water systems	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	2. Use recycled water if available	<input type="checkbox"/>	<input type="checkbox"/>	



F. Irrigation Schedules

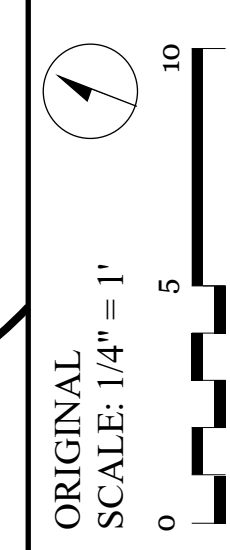
APPLICANT	ITEM	AUDITOR		NOTES
		PASS	FAIL	
<input type="checkbox"/>	1. Irrigation schedules have been developed, managed, and evaluated to utilize the minimum amount of water required to maintain plant health. Irrigation schedules shall meet the following criteria:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. Irrigation scheduling is regulated by automatic irrigation controllers	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. Overhead irrigation is scheduled between 8:00 p.m. and 10:00 a.m. unless weather conditions prevent it	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	c. Irrigation schedules shall be regulated by automatic irrigation controllers using current reference evapotranspiration data (e.g., CIMIS) or soil moisture sensor data	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	2. The irrigation schedules have been developed to include the parameters used to set the automatic controller and are submitted for each of the following:	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. Plant establishment period	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. Established landscape	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	c. Temporarily irrigated areas	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	3. Each irrigation schedule includes the following that apply for each station (valve):	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	a. Irrigation interval (days between irrigation)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	b. Irrigation run times (hours or minutes per irrigation event to avoid runoff)	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	c. Number of cycle starts required for each irrigation event to avoid runoff	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	d. Amount of applied water scheduled to be applied on a monthly basis	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	e. Application rate setting	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	f. Root depth setting	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	g. Plant type setting	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	h. Soil type	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	i. Slope factor setting	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	j. Shade factor setting	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	k. Irrigation uniformity or efficiency setting	<input type="checkbox"/>	<input type="checkbox"/>	



G. Reviewer Comments



DESIGNER CONTACT INFORMATION

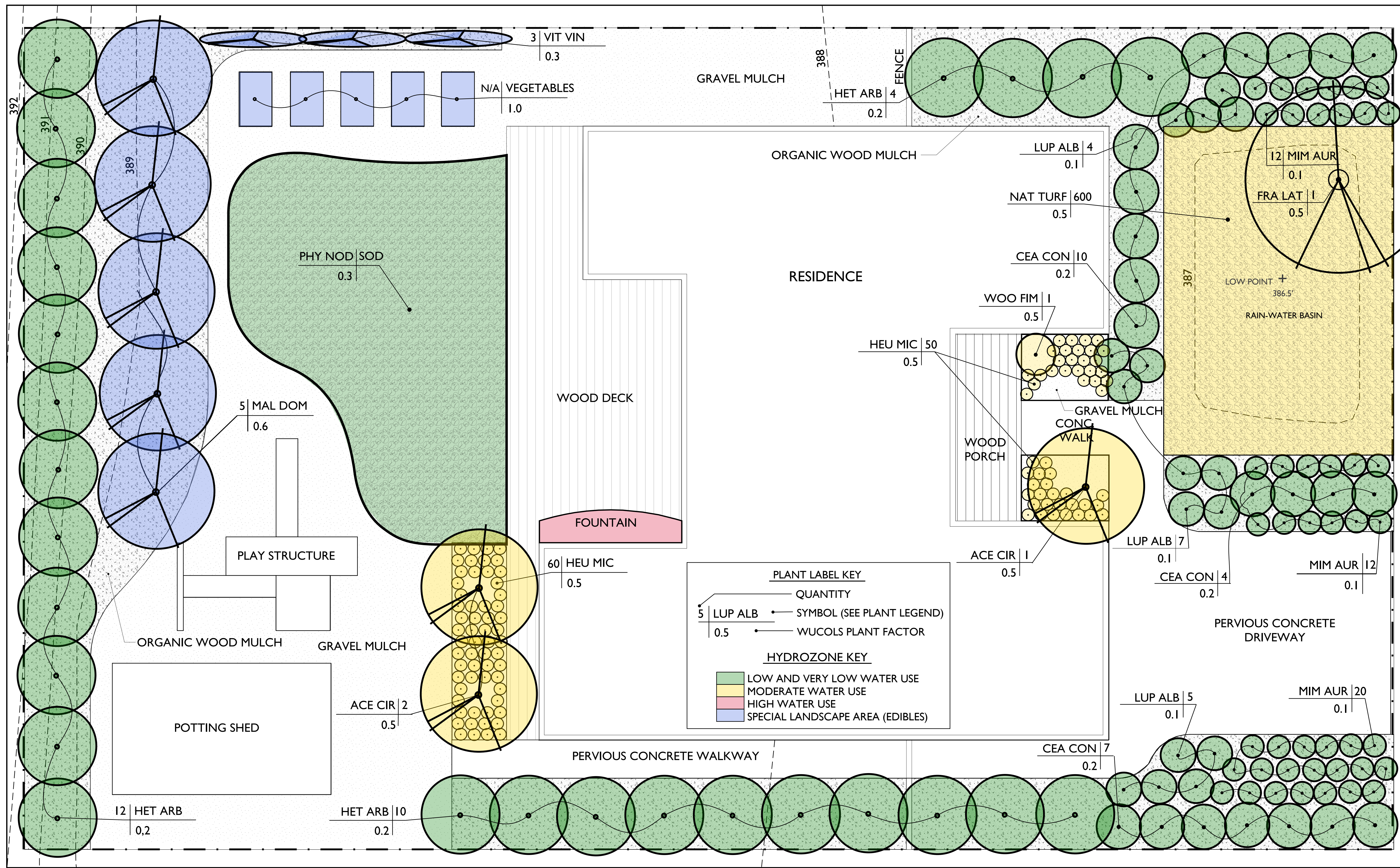


PROJECT TITLE AND SITE ADDRESS

PLANTING AND HYDROZONE PLAN

DATE:
REVISIONS:

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1.0





DESIGNER CONTACT
INFORMATION

PROJECT TITLE AND SITE ADDRESS

PLANT LEGEND, NOTES
AND DETAILS

DATE

REVISIONS:

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1.1

SAMPLE PLANT LEGEND

(BOTANICAL NAME AND WATER USE DESIGNATION REQUIRED)

SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	NOTES	WUCOLS
TREES:						
ACE CIR	ACER CIRCINATUM	VINE MAPLE	3	15 GAL.	NATIVE, MULTI-STEM	M
FRA LAT	FRAXINUS LATIFOLIA	OREGON ASH	1	24" BOX	NATIVE, STANDARD	M
MAL DOM	MALUS DOMESTICA 'FUJI'	FUJI APPLE	4	15 GAL.	EDIBLE, STANDARD	M
SHRUBS:						
CEA CON	CEANOTHUS CONCHA	MOUNTAIN LILAC	20	5 GAL.	NATIVE, REDUCED SUMMER WATER	L
HET ARB	HETEROMELES ALBUTIFOLIA	TOYON	16	5 GAL.	NATIVE, REDUCED SUMMER WATER	L
LUP ALB	LUPINUS ALBIFRONS	SILVER BUSH LUPINE STICKY MONKEY	17	1 GAL.	NATIVE, REDUCED SUMMER WATER	VL
MIM AUR	MIMULUS AURANTIACUS	FLOWER	29	1 GAL.	NATIVE, REDUCED SUMMER WATER	VL
VIT VIN	VITIS CALIFORNICA 'RODGER'S RED'	WILD GRAPE	3	1 GAL.	NATIVE HYBRID	L
WOO FIM	WOODWARDIA FIMBRIATA	GIANT CHAIN FERN	1	5 GAL.	NATIVE	M
GROUNDCOVERS:						
HEU MAX	HEUCHERA MICRANTHA	CREVICE ALUM ROOT	110	4 INCH	NATIVE	M
PHY NOD	PHYLA NODIFLORA	KURAPIA	675 SF	SOD	NATIVE CULTIVAR	L
NAT TURF	F.OCCIDENTALLIS, F. RUBRA, F. IDAHOENSIS	NATIVE FESCUE BLEND	600 SF	SOD	NATIVE	L

SAMPLE NOTES

(REQUIRED MEASURES)

PLANTING

- 1) TURF IS LIMITED TO 25 PERCENT OF THE TOTAL IRRIGATED AREA (EXCEPT WHERE NON-RESIDENTIAL PLAY FIELDS ARE A PROGRAM REQUIREMENT) AND NOT PLANTED ON AREAS SLOPING MORE THAN 25 PERCENT.
- 2) PLANTINGS MUST BE GROUPE INTO HYDROZONES BASED ON MICROCLIMATE, SOIL TYPE, PLANT TYPE, AND WATER USE CLASSIFICATION (SEE WUCOLS: WWW.UCNR.EDU/SITES/WUCOLS/).

IRRIGATION

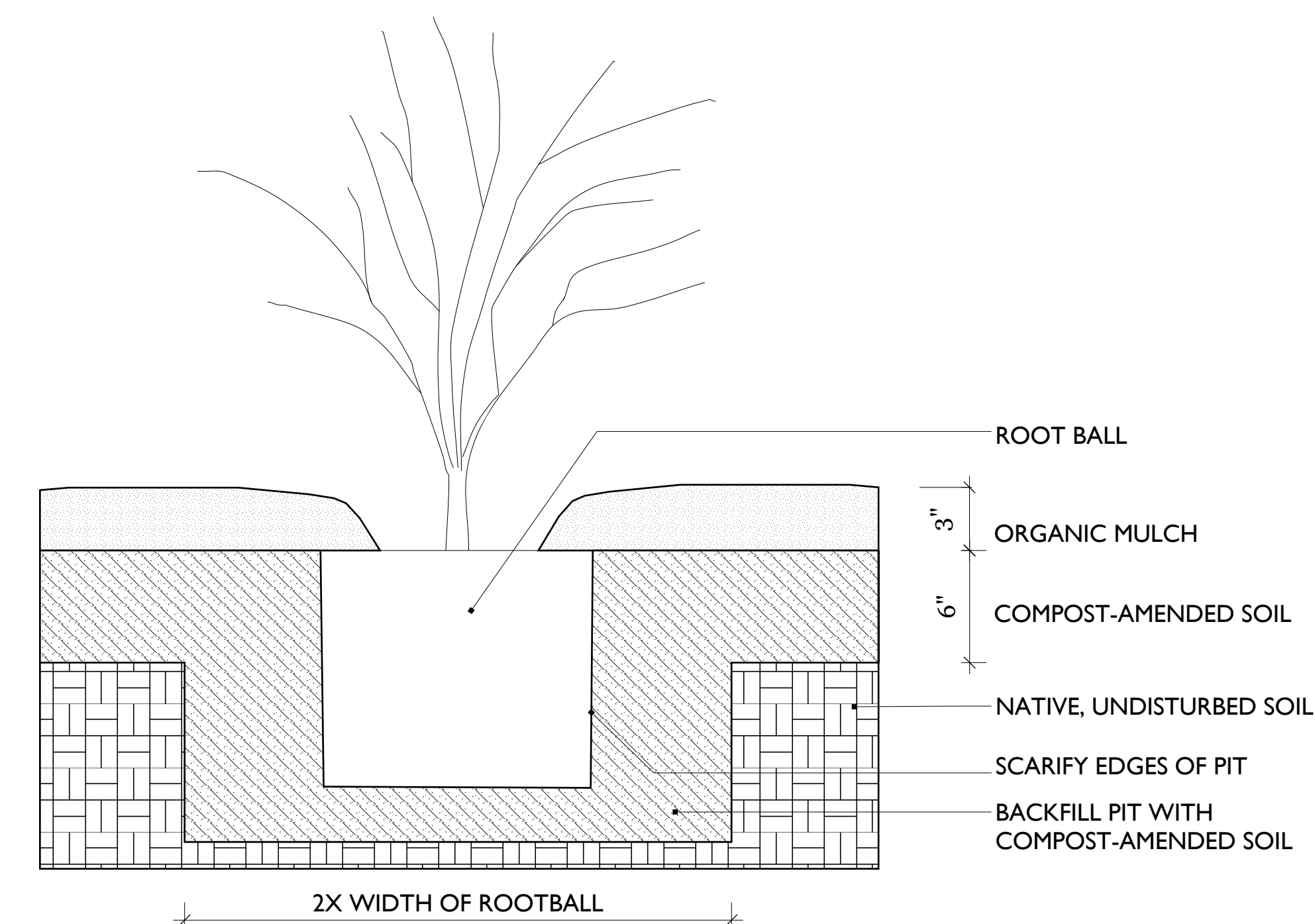
- 3) PRECIPITATION RATES MUST BE UNIFORM ACROSS EACH ZONE.
- 4) EMITTERS MUST BE FIXED RATE AND OF THE SAME TYPE WITHIN A ZONE. NO VARIABLE OR ADJUSTABLE FLOW RATE EMITTERS ARE ALLOWED. MIXING EMITTERS WITHIN A ZONE IS NOT ALLOWED.
- 5) OVERHEAD SPRAY IS NOT ALLOWED IN AREAS LESS THAN TEN FEET ACROSS IN ANY DIMENSION.
- 6) OVERHEAD SPRAY NOZZELS MUST BE SET BACK A MINIMUM OF TWO FEET FROM ADJACENT IMPERVIOUS SURFACES.

COMPOST

- 7) INCORPORATE COMPOST AT A RATE OF FOUR (4) CUBIC YARDS PER 1,000 SQUARE FEET INTO THE TOP SIX (6) INCHES OF SOIL OR COMPOST PER HORITICULTURAL SOIL REPORT RECOMMENDATIONS.

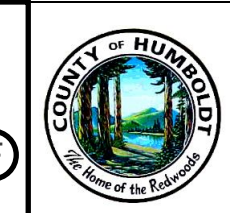
MULCH

- 8) APPLY ORGANIC MULCH TO A MINIMUM DEPTH OF THREE (3) INCHES ON ALL EXPOSED SOIL IN THE PLANTED AREA EXCEPT WHERE CONTRAINDICATED.

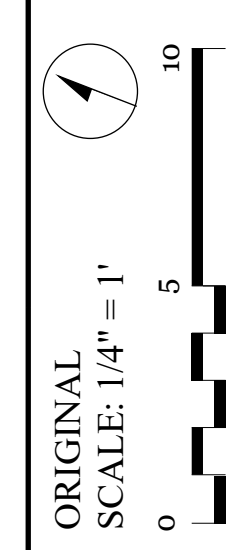


SAMPLE PLANTING DETAIL

NOT TO SCALE



DESIGNER CONTACT INFORMATION



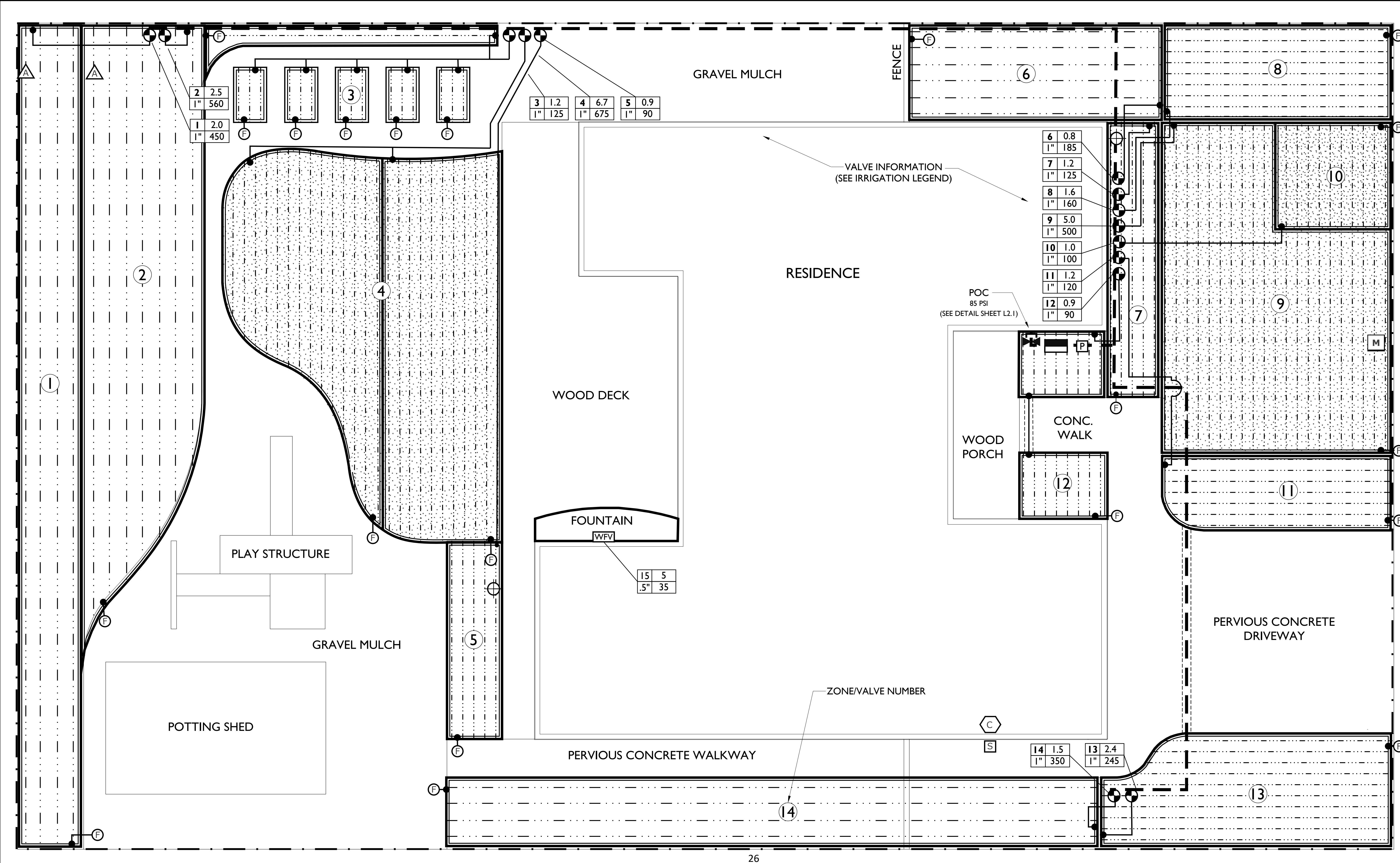
PROJECT TITLE AND SITE ADDRESS

IRRIGATION PLAN

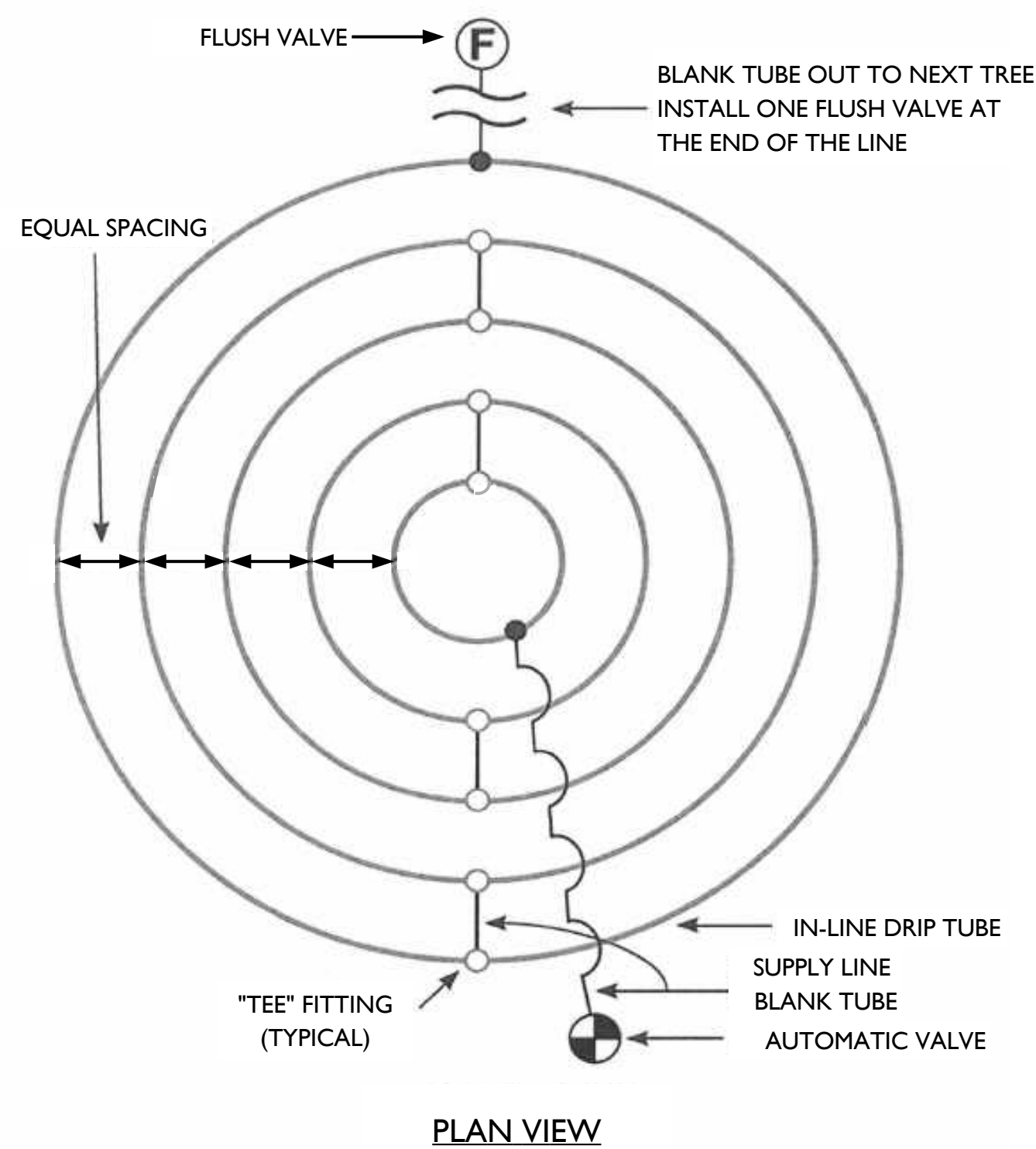
DATE:
REVISIONS:

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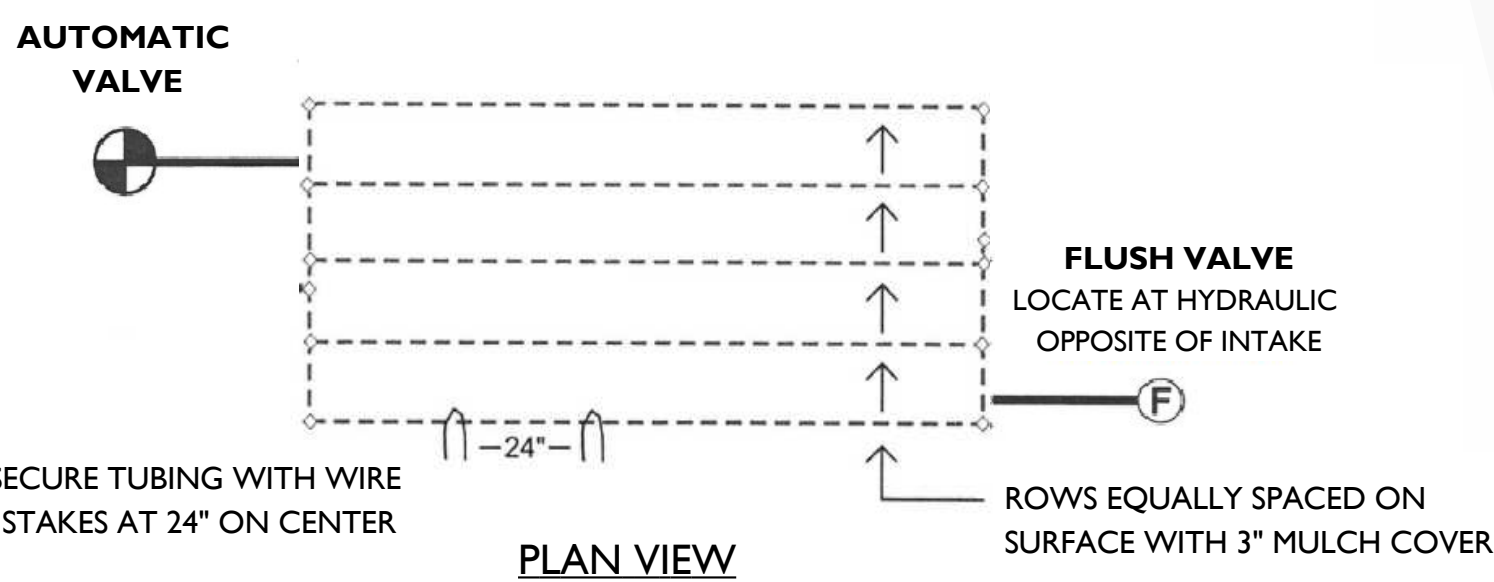
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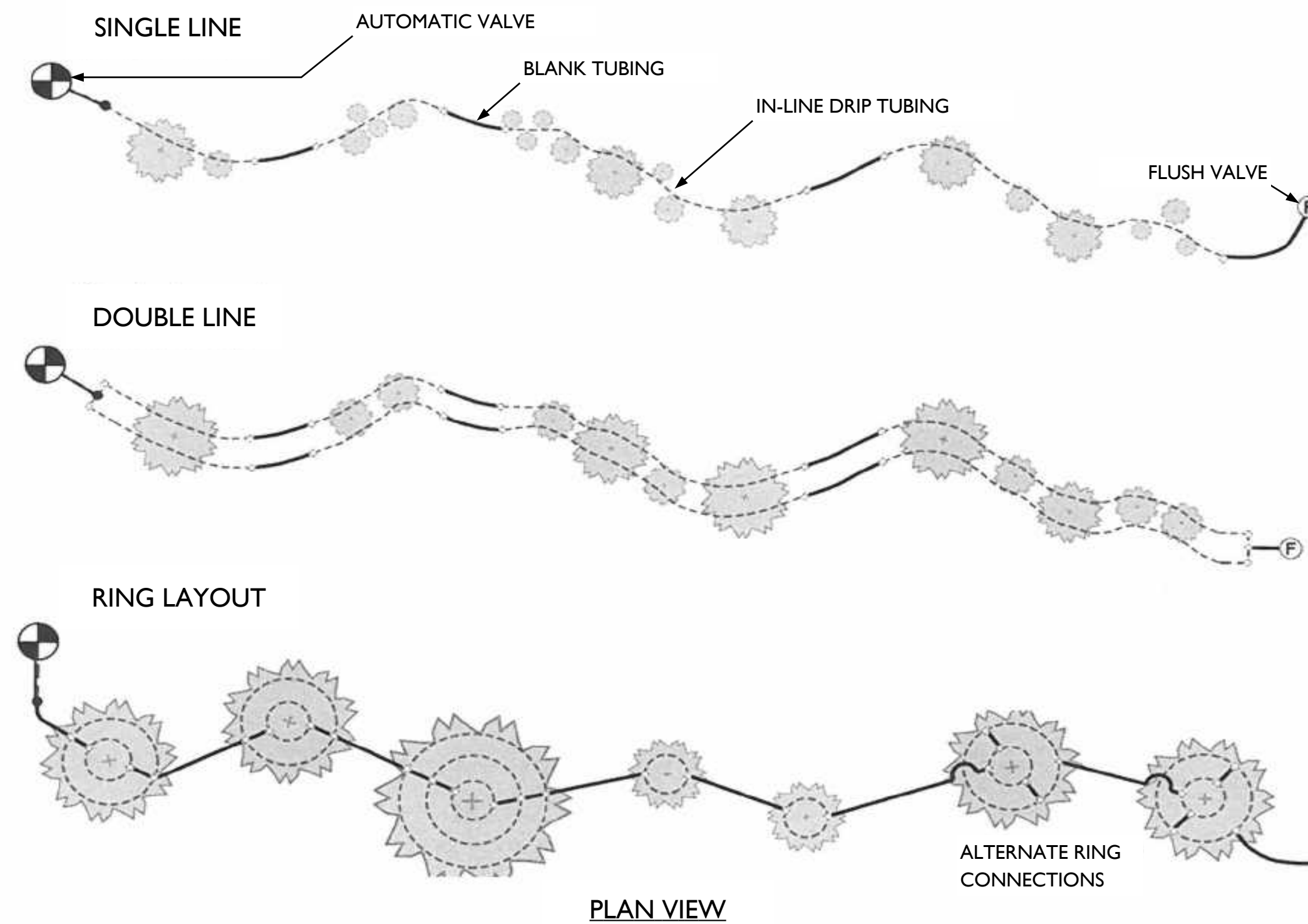
SAMPLE DRIP IRRIGATION DETAILS



IN-LINE DRIP RING LAYOUT



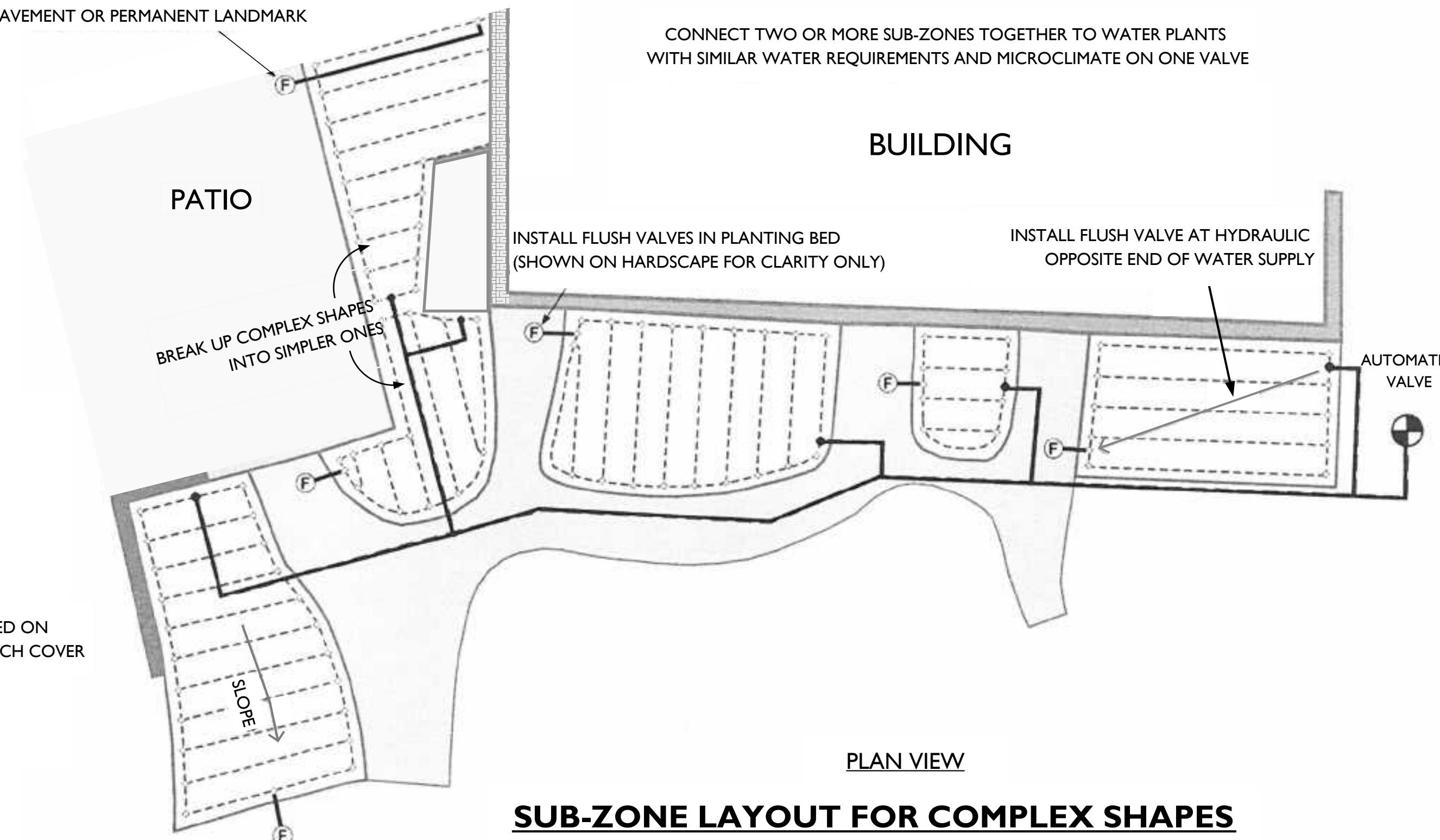
IN-LINE DRIP TUBING ZONE LAYOUT



IN-LINE DRIP SNAKE LAYOUTS

USE BLANK TUBING TO EXTEND FLUSH OUT TO CONVENIENT, ACCESSIBLE LOCATION NEAR EDGE OF PAVEMENT OR PERMANENT LANDMARK

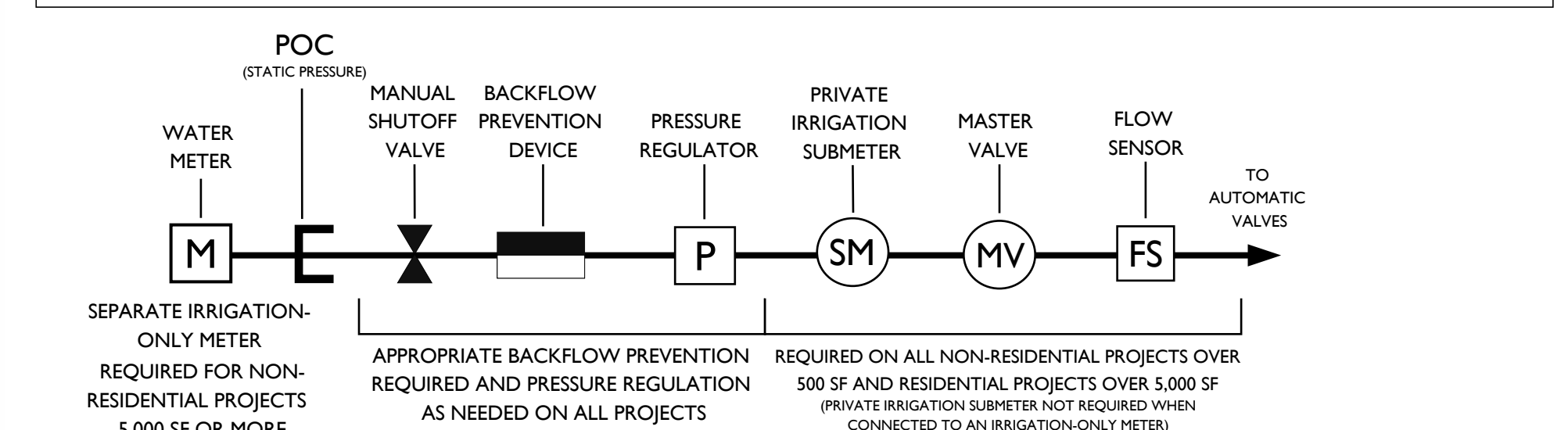
CONNECT TWO OR MORE SUB-ZONES TOGETHER TO WATER PLANTS WITH SIMILAR WATER REQUIREMENTS AND MICROCLIMATE ON ONE VALVE



SUB-ZONE LAYOUT FOR COMPLEX SHAPES

SAMPLE IRRIGATION LEGEND (MAKE AND MODEL OF EACH COMPONENT REQUIRED)

SYMBOL	COMPONENT MAKE, MODEL, TYPE, AND DESCRIPTION
M	INSTALLED WATER METER
C	WEATHER-BASED, AUTOMATIC IRRIGATION CONTROLLER
S	RAIN (OR SOIL) SENSOR
POC (STATIC PRESSURE)	POINT OF CONNECTION AND STATIC PRESSURE
Valve symbol	MANUAL BALL (OR GATE) VALVE
Backflow symbol	REDUCED PRESSURE BACKFLOW PREVENTION DEVICE (ANTI-SIPHON VALVES MAY BE SUBSTITUTED IF INSTALLED PROPERLY; DOUBLE CHECK VALVES ARE NOT ALLOWED)
P	PRESSURE REGULATOR (IF CONDITIONS REQUIRE)
Automatic valve symbol	AUTOMATIC VALVE
Valve/zone number symbol	VALVE/ZONE NUMBER FLOW RATE IN GALLONS PER MINUTE ZONE AREA IN SQUARE FEET VALVE SIZE
Main line symbol	MAIN LINE DIAMETER AND TYPE
Lateral line symbol	LATERAL LINE DIAMETER AND TYPE
Sleeve symbol	SLEEVE DIAMETER AND TYPE
Surface 1/2" symbol	SURFACE 1/2" IN-LINE DRIP TUBING 0.6 GPH, 12" EMITTER SPACING, 12" ROW SPACING (MINIMUM SPACING RECOMMENDED FOR WELL DRAINED SOIL, RAISED BEDS AND STORMWATER TREATMENT FACILITIES)
Sub-surface 1/2" symbol	SUB-SURFACE 1/2" IN-LINE DRIP TUBING 0.6 GPH, 12" EMITTER SPACING, 12" ROW SPACING (MINIMUM SPACING RECOMMENDED FOR WELL DRAINED SOIL, RAISED BEDS AND STORMWATER TREATMENT FACILITIES)
Surface 1/2" 18" symbol	SURFACE 1/2" IN-LINE DRIP TUBING 0.6 GPH, 18" EMITTER SPACING, 18" ROW SPACING (MINIMUM SPACING RECOMMENDED FOR WELL DRAINED SOIL, RAISED BEDS AND STORMWATER TREATMENT FACILITIES)
F	FLUSH VALVE AND POP-UP DRIP ZONE INDICATOR
A	AIR VACUUM RELIEVE VALVE (IF CONDITIONS REQUIRE)
WFV	WATER FEATURE VALVE TYPE (I.E. FLOAT VALVE) AND FLOW RATE
Hose bib symbol	HOSE BIB



TYPICAL IRRIGATION POINT OF CONNECTION



DESIGNER CONTACT INFORMATION

PROJECT TITLE AND SITE ADDRESS

IRRIGATION LEGEND, NOTES AND DETAILS

DATE:
REVISIONS:

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2.1