

Appendix E: Standard Drawings and General Notes

Details are currently available in pdf and AutoCAD format and may be downloaded from Rogue Valley Sewer Services website.

General Notes

General Notes for Vegetated BMPs: These notes must be included on the plans for any Vegetated BMPs in series 3 through 8.

General Notes for Pervious Surfacing: These notes must be included on the plans for any Pervious surfaces in BMPs 2.01 through 2.04.

List of Standard Drawings

BMP 1.01 Tree Protection

BMP 1.02 Tree Protection – Temporary Access Road

BMP 1.03 Tree Planting

BMP 1.04 Tree Planting on Slope

BMP 2.01 Pervious Concrete Pavement

BMP 2.02 Porous Asphalt Pavement

BMP 2.03 Permeable Pavers

BMP 2.04 Vehicular Permeable Paver Edges

BMP 3.01 Infiltration Rain Garden

BMP 3.02 Lined Filtration Rain Garden with Rock Trench

BMP 3.03 Lined Filtration Rain Garden

BMP 3.04 Rain Garden Planting Schematic

BMP 4.01 Infiltration Stormwater Planter with Area Drain

BMP 4.02 Infiltration Stormwater Planter with Amended or Imported Soil and Area Drain

BMP 4.03 Lined Filtration Stormwater Planter

BMP 4.04 Infiltration Stormwater Planter with Rock Trench

BMP 4.05 Stormwater Planter Planting Schematic

BMP 5.01 Infiltration LID Swale with Amended Planting Soil and Rock Trench

BMP 5.02 Infiltration LID Swale -- Lowest Elevation Cell with Area Drain

BMP 5.03 LID Swale Planting Schematic

BMP 6.01 Soakage Trench in Landscape Area

BMP 6.02 Soakage Trench under Impervious Pavement Surface

BMP 7.01 Vegetated Filter Strip with Amended Planting Soil

BMP 8.01 Water Quality Conveyance Swale with Amended Planting Soil

BMP 8.02 Water Quality Conveyance Swale: Fully or Partially Lined

BMP 8.03 Water Quality Conveyance Swale: Planting Schematic

BMP 9.01 Roadway Curb Opening

GENERAL NOTES FOR PERVIOUS SURFACING

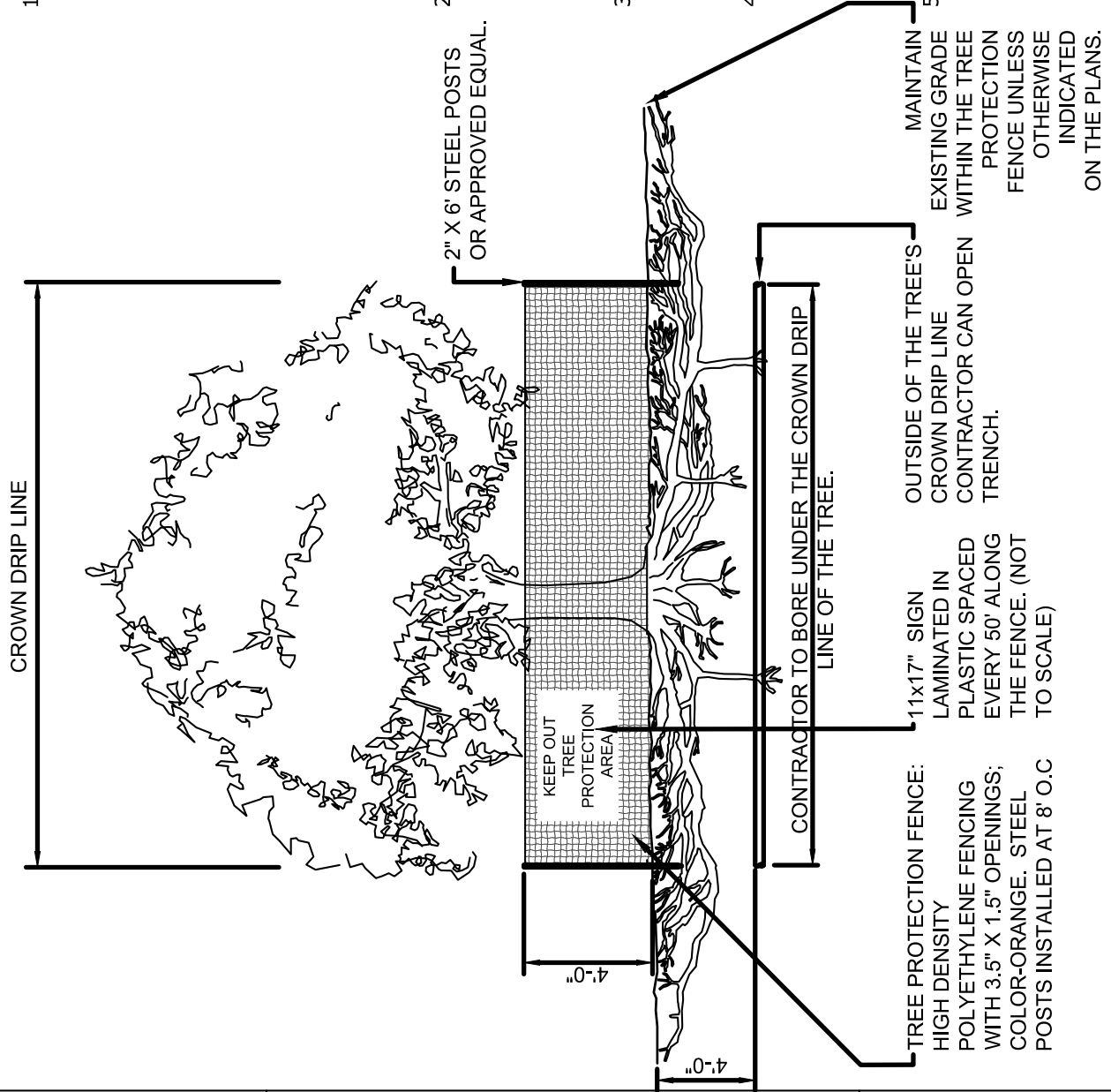
1. Excluding construction of the facility itself, exposed treatment area subgrade shall be fenced to prohibit impacts from construction (including materials and equipment storage).
2. If unprotected soil has been exposed to rainfall, scarify the surface to a depth of 4 inches to restore infiltration capacity.
3. Contractor shall contact the approving agency 48 hours prior to placing geotextile fabric. The approving agency may call the engineer of record in advance of construction of this facility so construction observation may be performed to identify variations in the field that may affect design and verify proper construction.
4. Base rock shall be delivered clean and must pass visual inspection by Agency's inspection prior to placement.

General Notes for Vegetated BMPs

1. Excluding construction of the facility itself, exposed stormwater treatment area subgrade shall be fenced to prohibit impacts from construction (including materials and equipment storage).
2. Build and vegetate as early as possible to establish plantings prior to directing stormwater runoff to the BMP. Call the reviewing agency 48 hours in advance of constructing this facility so construction observation may be performed to identify variations in the field that may affect design and verify proper construction.
3. Over-excavate within the BMP to allow for placement of amended or imported soil up to final grade.
4. Amended native or imported soil mix shall be the "Water Quality Mixture" specified in Oregon Standard Specification for Construction Special Provision Section 01012.12
 - a. Conduct excavation, fine grading and placement work only when the facility and the soil to be placed is dry. Do not place if soil is saturated.
 - b. If unprotected soil has been exposed to rainfall, scarify the surface to a depth of 4 inches to restore filtration capacity. Place soil in 8 inch maximum lifts (i.e. depths).
 - c. Lightly compact each lift, (e.g. a water filled landscape roller) to achieve 85% compaction. Do not compact with heavy machinery or vibratory compaction.
5. Placement of amended native or imported soil mix shall occur as follows:
 - a. Conduct excavation, fine grading and placement work only when the facility and soil to be placed is dry. Do not place if soil is saturated.
 - b. If unprotected soil has been exposed to rainfall, scarify the surface to a depth of 4 inches to restore filtration capacity.
 - c. Place soil in 8 inch maximum lifts (i.e. depths).
 - d. Lightly compact each lift, (e.g. a water filled landscape roller) to achieve 85% compaction. Do not compact with heavy machinery or vibratory compaction.
6. If soil is placed during the wet season and the facility will not be planted within one week of soil installation, install Oregon Standard Specifications for Construction, Special Provision 00280 Type E erosion control matting.
7. Contact approving jurisdiction 48 hours in advance of planting so that the jurisdiction can review soil installation and plant placement prior to plant installation.
8. Mulch shall be:
 - a. Placed in areas shown on the approved plan
 - b. Shredded wood chips or course compost
 - c. Dye, pesticide and weed free
 - d. Spread in a minimum two inch layer over bare soil or in a ring around plants
 - e. Not touching plant stems
9. Side slopes outside of flow area must be permanently stabilized with mulch and vegetation.
10. The approving jurisdiction may request evidence the the amended native or imported soil mix meets specification prior to placement.
11. If requested test data for the soil mix shall be provided by an accredited laboratory with current certification. The date of the analysis must be no more than 90 days prior to submittal. The report must include the following:
 - a. name and address of the laboratory
 - b. phone, contact and email address of the laboratory
 - c. test data, including date and name of test procedure
 - d. source of the topsoil

TREE PROTECTION NOTES:

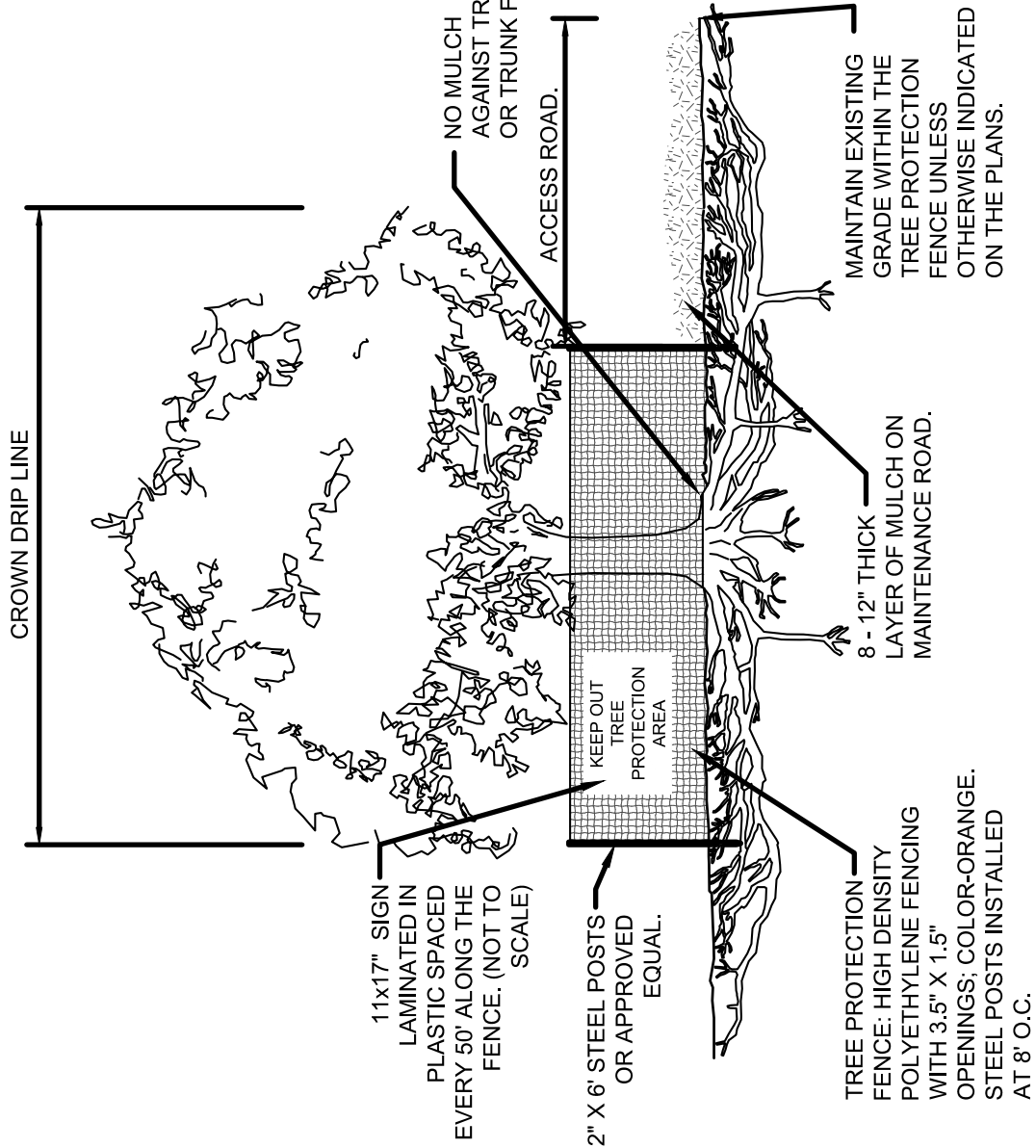
1. EXISTING TREES SHOWN TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION. CHAINLINK FENCING (MIN. 4'-0" HEIGHT) SHALL BE INSTALLED AT THE DRIP LINE OF ALL TREES OR TREE GROUPS TO REMAIN. PARKING OF VEHICLES OR PERFORMING WORK WITHIN THESE AREAS OTHER THAN SHOWN ON THE PLAN, WILL NOT BE ALLOWED. THE TREE PROTECTION SHALL REMAIN DURING CONSTRUCTION. OTHER TREE PROTECTION MEASURES SHALL BE IN ACCORDANCE WITH THE CITY'S STANDARDS AND ORDINANCES.
2. DISPOSAL OF ANY WASTE MATERIAL SUCH AS, BUT NOT LIMITED TO, PAINT, ASPHALT, OIL SOLVENTS, CONCRETE, MORTAR, ETC. WITHIN THE CANOPY AREA OF THE EXISTING TREES SHALL NOT BE ALLOWED.
3. NO ATTACHMENTS OR WIRES OF ANY KIND OTHER THAN THOSE OF A PROTECTIVE NATURE, SHALL BE ATTACHED TO ANY TREE.
4. NO FILL OR EXCAVATION OF ANY NATURE SHALL OCCUR WITHIN THE DRIP LINE OF A TREE TO BE PRESERVED, UNLESS THERE IS A SPECIFIED WELL OR RETAINING WALL SHOWN ON THE GRADING PLAN.
5. NO MATERIALS SHALL BE STORED WITHIN THE DRIP LINE AREA OF A TREE TO BE PRESERVED.



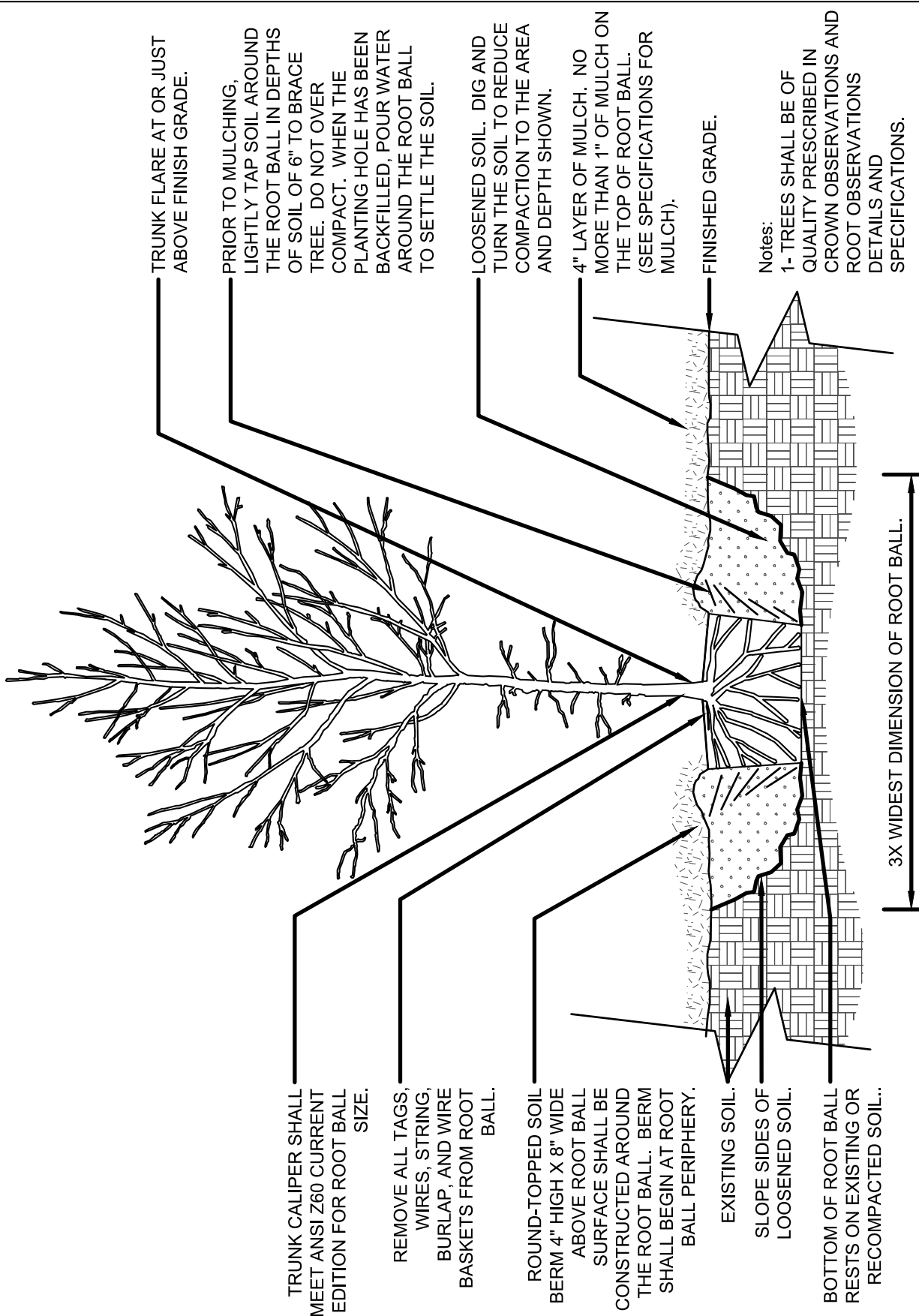
SECTION VIEW

TREE PROTECTION NOTES:

1. EXISTING TREES SHOWN TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION. CHAINLINK FENCING (MIN. 4'-0" HEIGHT) SHALL BE INSTALLED AT THE DRIP LINE OF ALL TREES OR TREE GROUPS TO REMAIN. PARKING OF VEHICLES OR PERFORMING WORK WITHIN THESE AREAS OTHER THAN SHOWN ON THE PLAN, WILL NOT BE ALLOWED. THE TREE PROTECTION SHALL REMAIN DURING CONSTRUCTION. OTHER TREE PROTECTION MEASURES SHALL BE IN ACCORDANCE WITH THE CITY'S STANDARDS AND ORDINANCES.
2. DISPOSAL OF ANY WASTE MATERIAL SUCH AS, BUT NOT LIMITED TO, PAINT, ASPHALT, OIL SOLVENTS, CONCRETE, MORTAR, ETC. WITHIN THE CANOPY AREA OF THE EXISTING TREES SHALL NOT BE ALLOWED.
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5. NO MATERIALS SHALL BE STORED WITHIN THE DRIP LINE AREA OF A TREE TO BE PRESERVED.



SECTION VIEW



TRUNK FLARE AT OR JUST ABOVE FINISH GRADE.

PRIOR TO MULCHING, LIGHTLY TAP SOIL AROUND THE ROOT BALL IN DEPTHS OF SOIL OF 6" TO BRACE TREE. DO NOT OVER COMPACT. WHEN THE PLANTING HOLE HAS BEEN BACKFILLED, POUR WATER AROUND THE ROOT BALL TO SETTLE THE SOIL.

LOOSENED SOIL. DIG AND TURN THE SOIL TO REDUCE COMPACTION TO THE AREA AND DEPTH SHOWN.

4" LAYER OF MULCH. NO MORE THAN 1" OF MULCH ON THE TOP OF ROOT BALL. (SEE SPECIFICATIONS FOR MULCH).

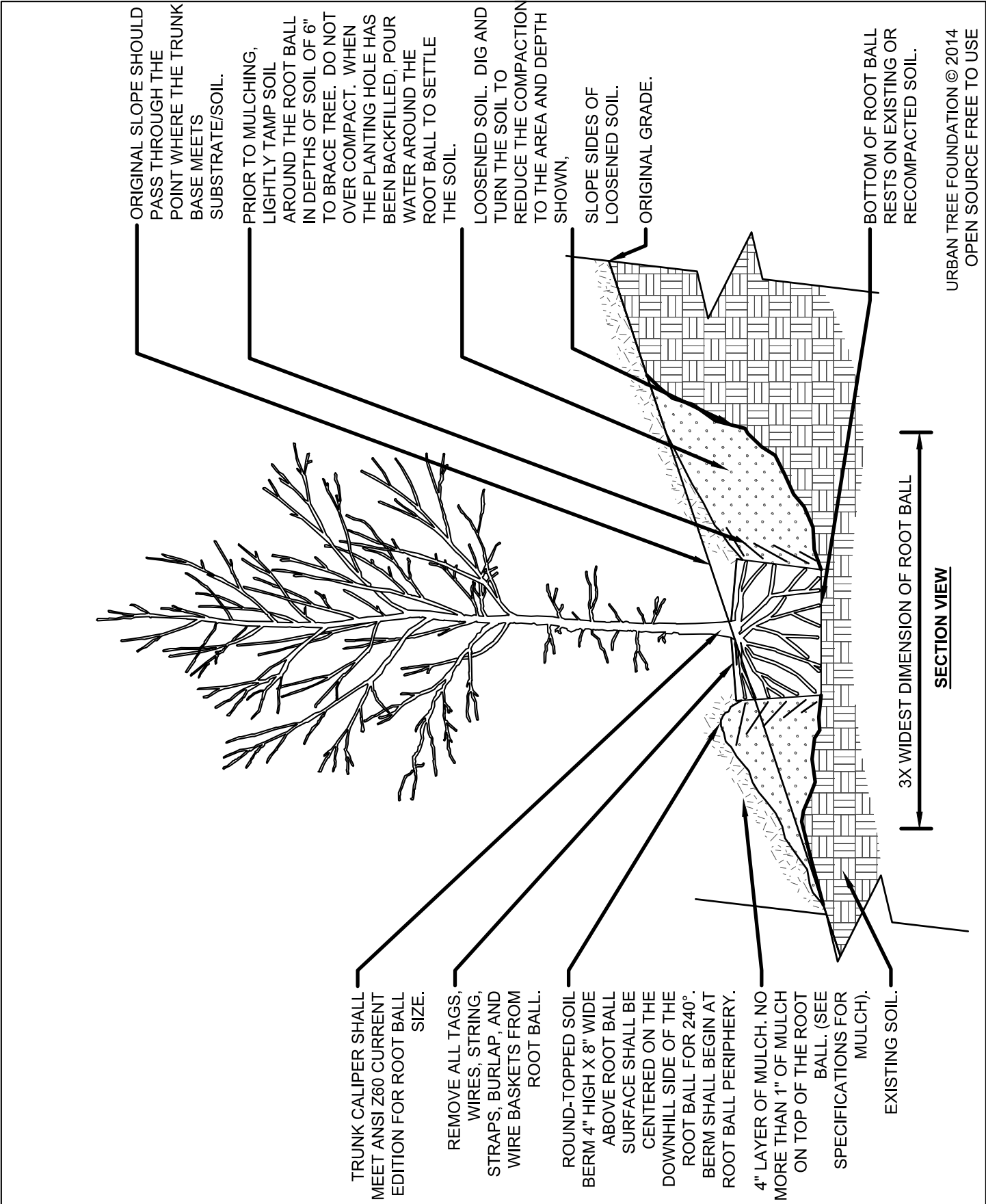
FINISHED GRADE.

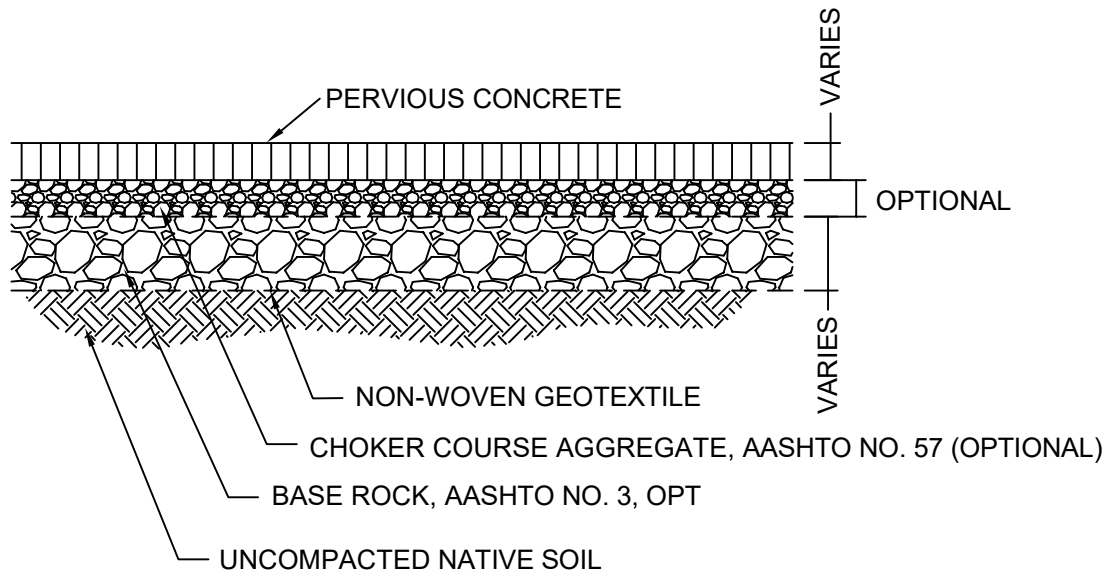
Notes:

1- TREES SHALL BE OF QUALITY PRESCRIBED IN CROWN OBSERVATIONS AND ROOT OBSERVATIONS DETAILS AND SPECIFICATIONS.

2- SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

3X WIDEST DIMENSION OF ROOT BALL.





NOTES

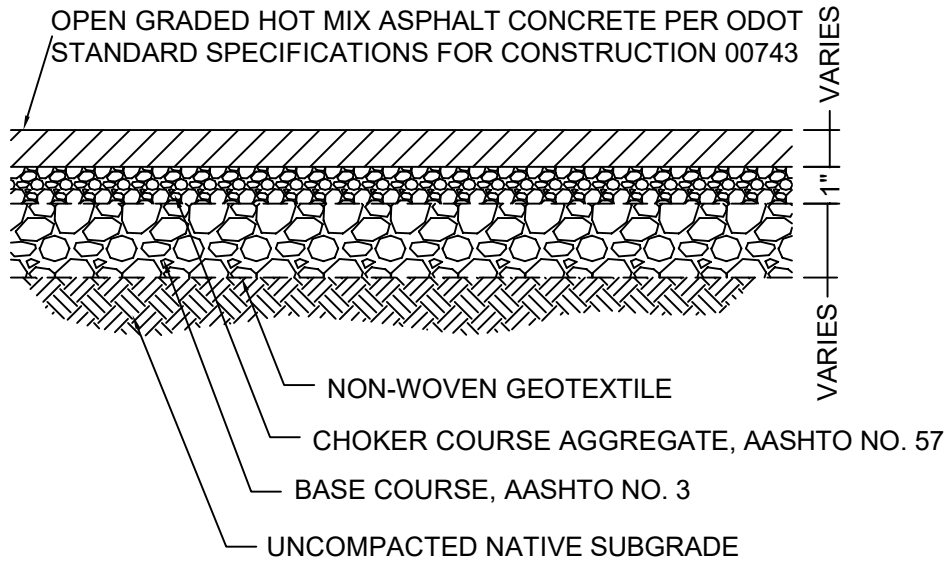
1. DESIGN AND INSTALL PERVIOUS CONCRETE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE SPECIFICATION 522 AND THE NATIONAL READY MIXED CONCRETE ASSOCIATIONS (NRMCA) RECOMMENDATIONS.
2. UNLESS OTHERWISE APPROVED BY THE ENGINEER, BASE ROCK SHALL BE OPEN GRADED AASHTO NO. 3.

U.S. STANDARD SIEVE SIZE	PERCENT PASSING
2 1/2" (63 MM)	100
2" (50 MM)	90-100
1 1/2" (37.5 MM)	35-70
1" (25 MM)	0-15
1/2" (12.5 MM)	0-5

IF THE ABOVE CANNOT BE MET, OPEN GRADED AASHTO NO. 5 IS ACCEPTABLE WITH THE APPROVAL OF THE ENGINEER.

U.S. STANDARD SIEVE SIZE	PERCENT PASSING
1 1/2" (37.5 MM)	100
1" (25 MM)	90-100
3/4" (19MM)	20-55
1/2" (12.5 MM)	0-10
3/8" (9.5 MM)	0-5

* GENERAL PERVIOUS SURFACING NOTES MUST ACCOMPANY THIS DETAIL.



NOTES

1. FOLLOW ODOT SPECIFICATION 00743 POROUS ASPHALT CONCRETE.
2. MUST USE ELASTOMERIC BINDER PG7022ER.
3. MUST PROVIDE THE JOB MIX FORMULA TO THE APPROVING AGENCY PRIOR TO CONSTRUCTION.
4. UNLESS OTHERWISE APPROVED BY THE ENGINEER, BASE ROCK SHALL OPEN GRADED AASHTO NO. 3.

U.S. STANDARD SIEVE SIZE	PERCENT PASSING
2 1/2" (63 MM)	100
2" (50 MM)	90-100
1 1/2" (37.5 MM)	35-70
1" (25 MM)	0-15
1/2" (12.5 MM)	0-5

IF THE ABOVE CANNOT BE MET, OPEN GRADED AASHTO NO. 5 IS ACCEPTABLE WITH THE APPROVAL OF THE ENGINEER.

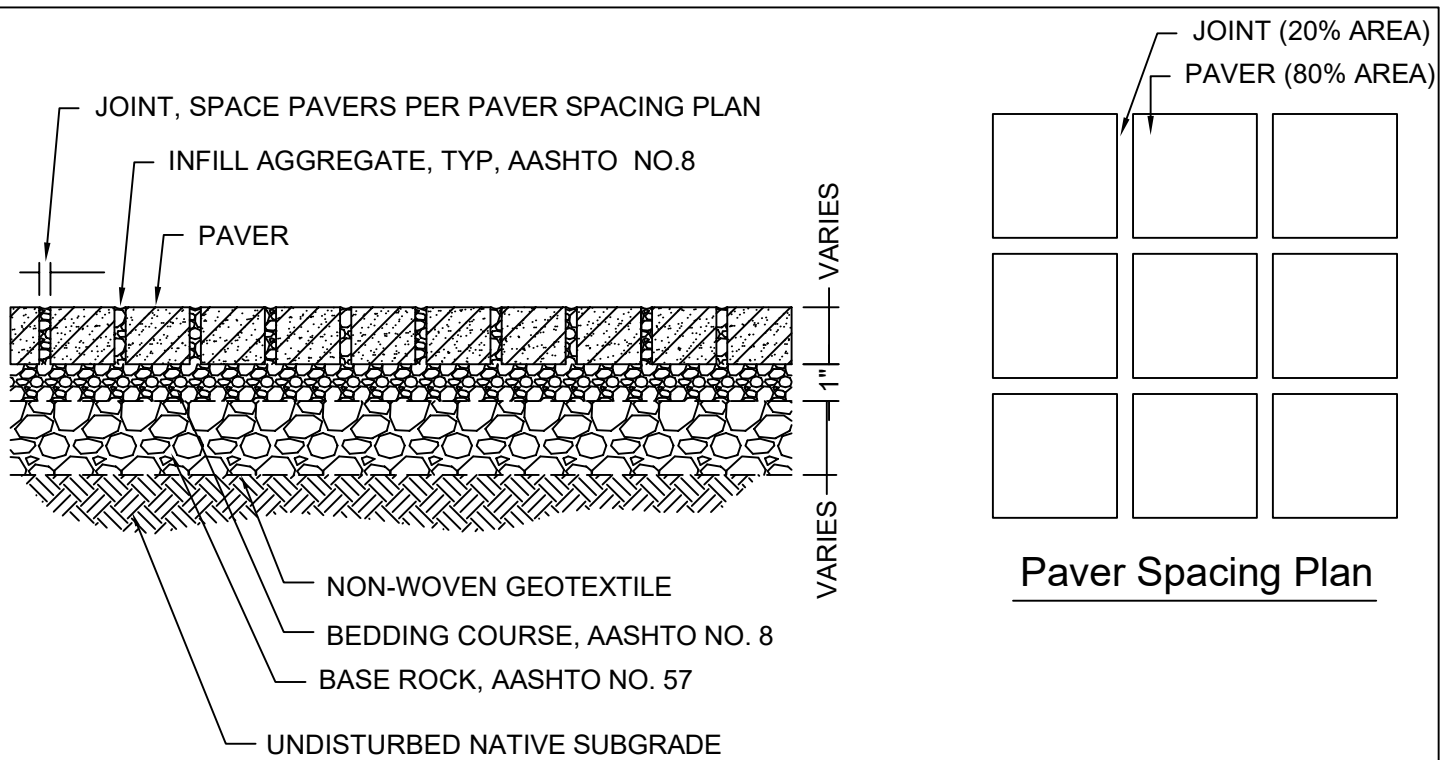
U.S. STANDARD SIEVE SIZE	PERCENT PASSING
1 1/2" (37.5 MM)	100
1" (25 MM)	90-100
3/4" (19 MM)	20-55
1/2" (12.5 MM)	0-10
3/8" (9.5 MM)	0-5

CHOKER COURSE AGGREGATE SHALL BE AASHTO NO. 57.

U.S. STANDARD SIEVE SIZE	PERCENT PASSING
1 1/2" (37.5 MM)	100
1" (25 MM)	95-100
1/2" (12.5 MM)	25-60
4 (4.75 MM)	0-10
8 (2.36 MM)	0-5

* GENERAL PERVIOUS SURFACING NOTES MUST ACCOMPANY THIS DETAIL.

Rogue Valley Stormwater Design Manual	Porous Asphalt Pavement	Dwg BMP 2.02 1 of 1
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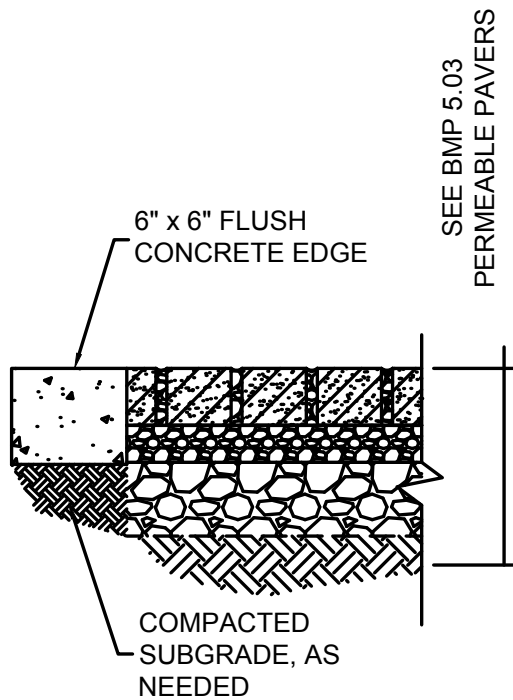
- DESIGN & INSTALL CONCRETE PAVERS IN ACCORDANCE WITH THE INTERLOCKING CONCRETE PAVEMENT INSTITUTE (ICPI) SPECIFICATIONS & THE MANUFACTURER'S RECOMMENDATIONS.
- IF USING SALVAGED AND POURED CONCRETE PAVERS, CONFIRM THAT THE PAVER MATERIAL AND CONDITION IS SUITABLE FOR ITS INTENDED USE.
- UNLESS OTHERWISE APPROVED BY THE ENGINEER, BASE ROCK SHALL BE OPEN GRADED AASHTO NO. 57.

U.S. STANDARD SIEVE SIZE	PERCENT PASSING
1 $\frac{1}{2}$ " (37.5 MM)	100
1" (25 MM)	95-100
$\frac{1}{2}$ " (12.5 MM)	25-60
4 (4.75 MM)	0-10
8 (2.36 MM)	0-5

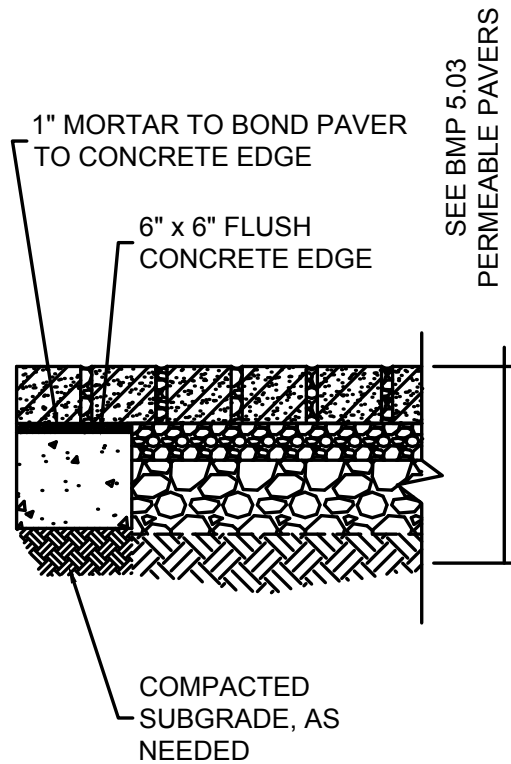
- UNLESS OTHERWISE APPROVED BY THE ENGINEER, THE BEDDING COURSE SHALL BE OPEN GRADED AASHTO NO. 8.

U.S. STANDARD SIEVE SIZE	PERCENT PASSING
$\frac{1}{2}$ " (12.5 MM)	100
$\frac{3}{8}$ " (9.5 MM)	85-100
4 (4.75 MM)	10-30
8 (2.36 MM)	0-10
16 (1.18 MM)	0-5

* GENERAL PERVIOUS SURFACING NOTES MUST ACCOMPANY THIS DETAIL.



FLUSH CURB



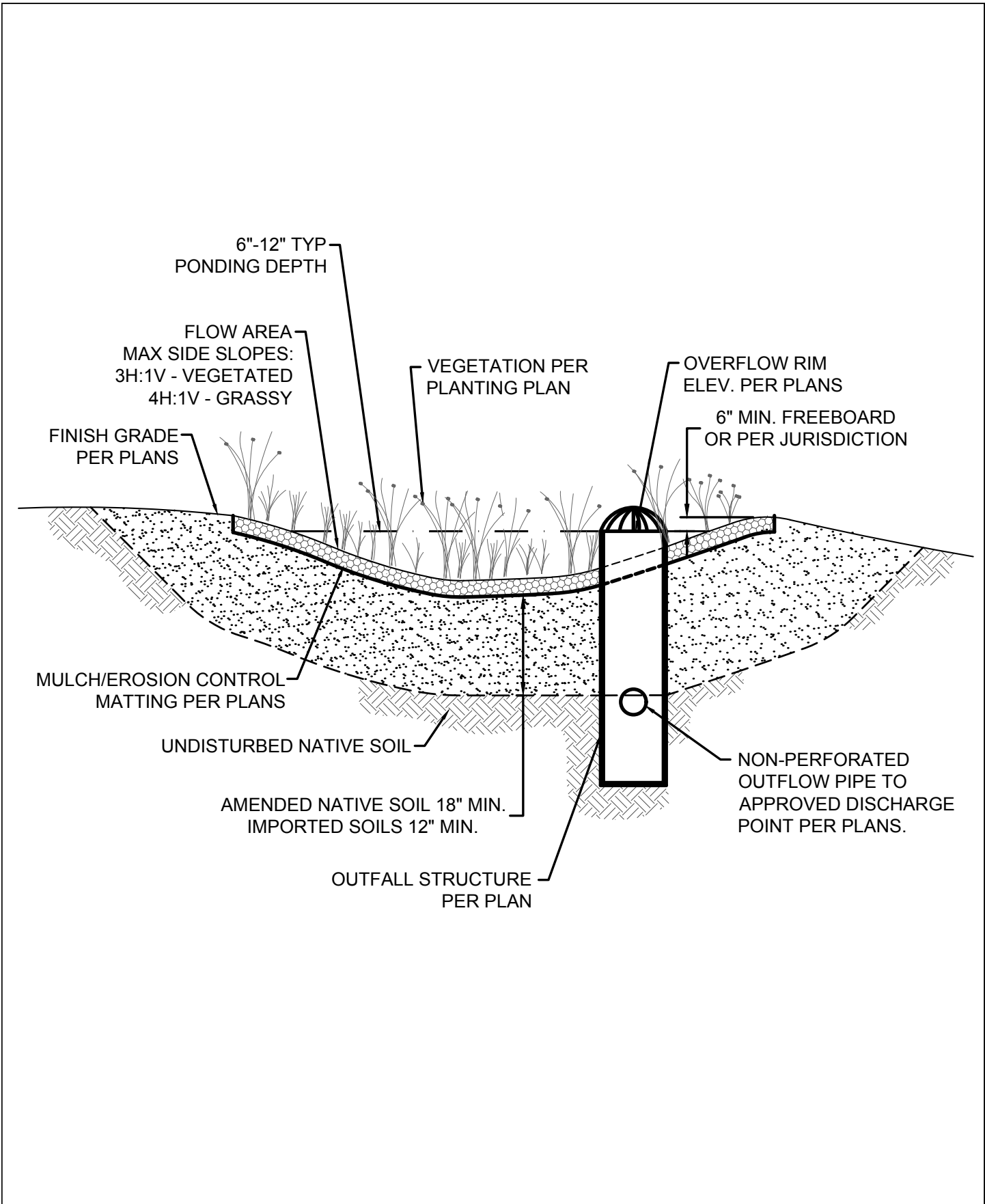
HIDDEN CURB

NOTES

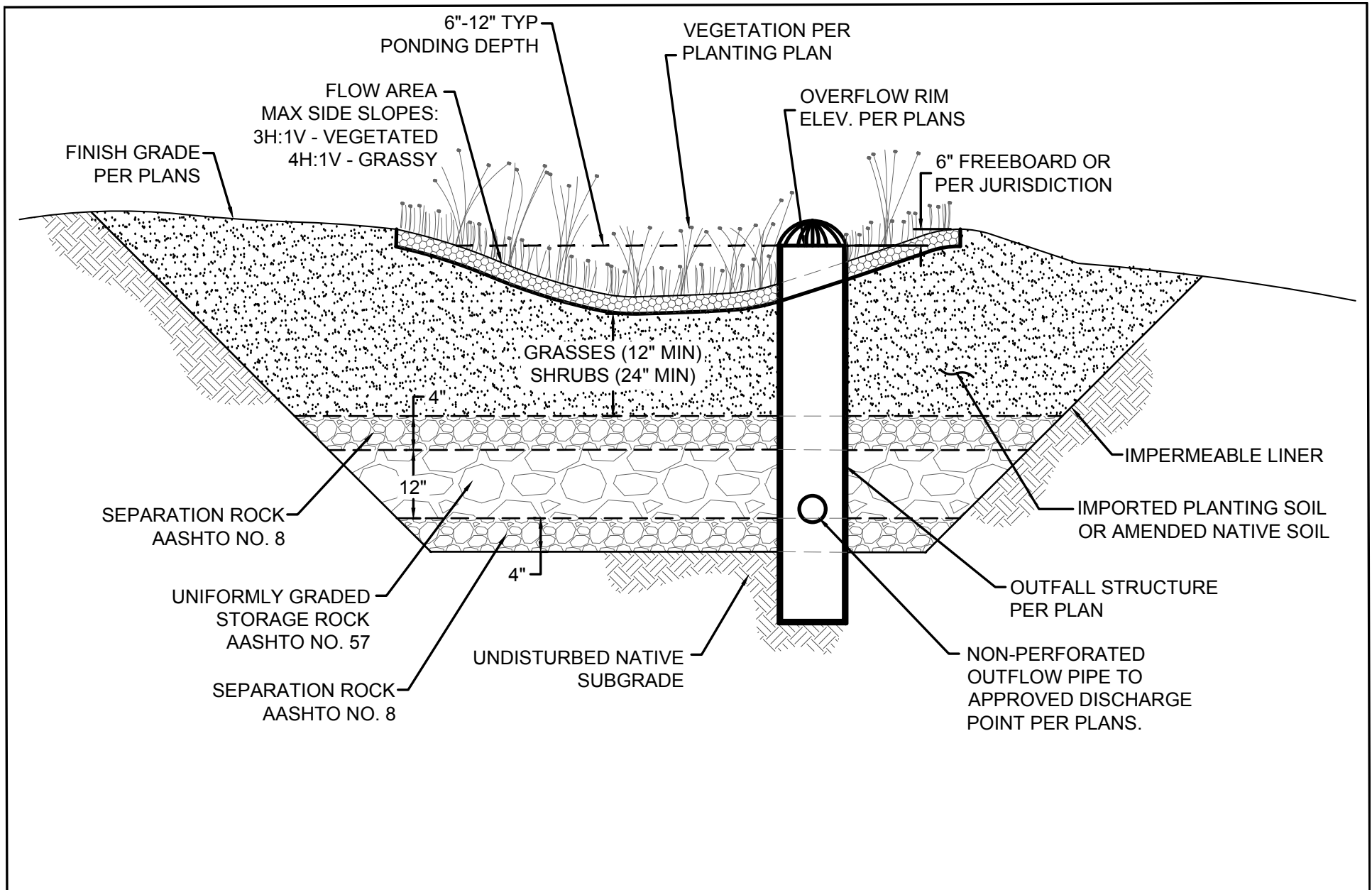
1. DURING INSTALLATION OF CURB, PROTECT PERMEABLE PAVER AREA FROM COMPACTION.

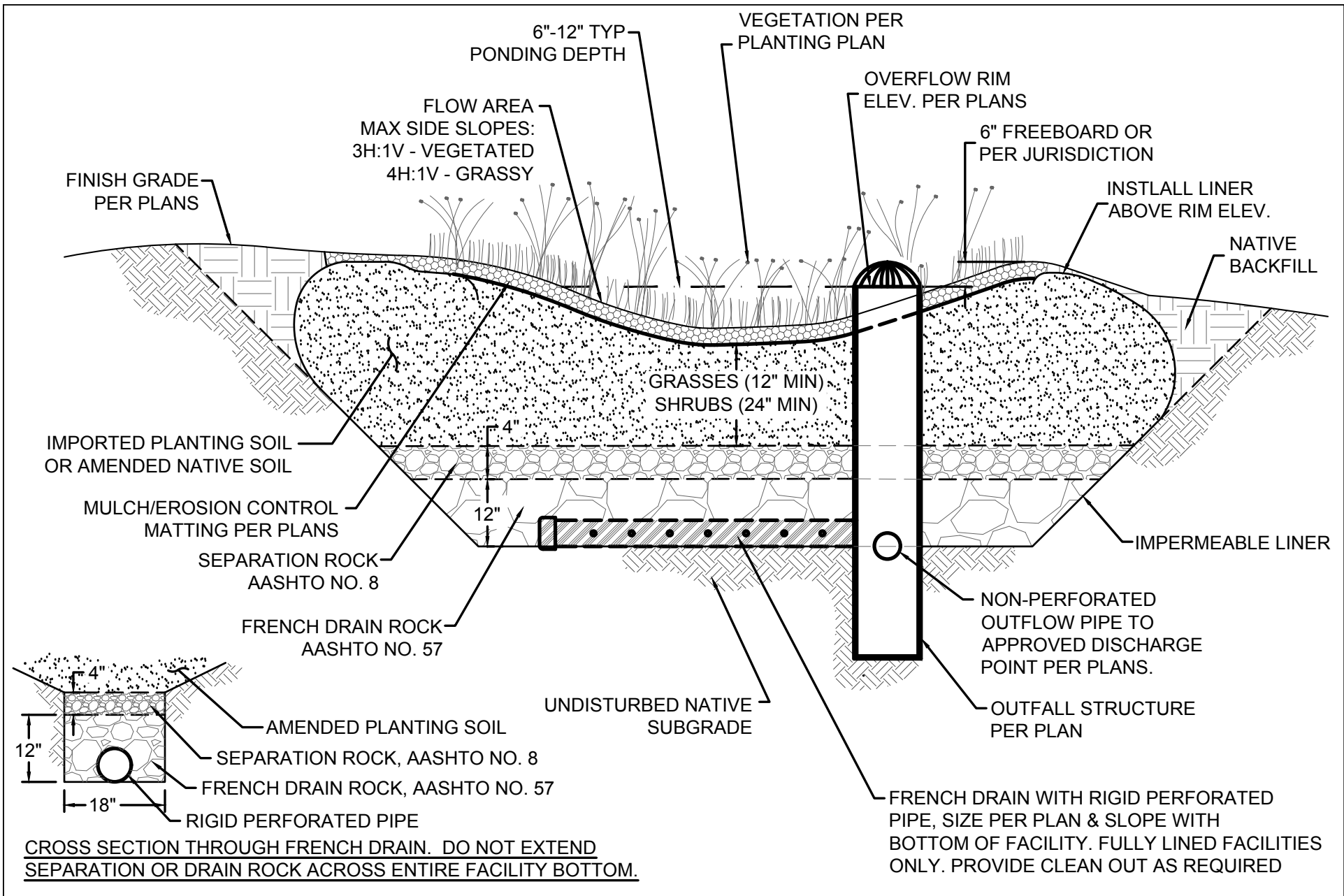
* GENERAL PERVIOUS SURFACING NOTES MUST ACCOMPANY THIS DETAIL.

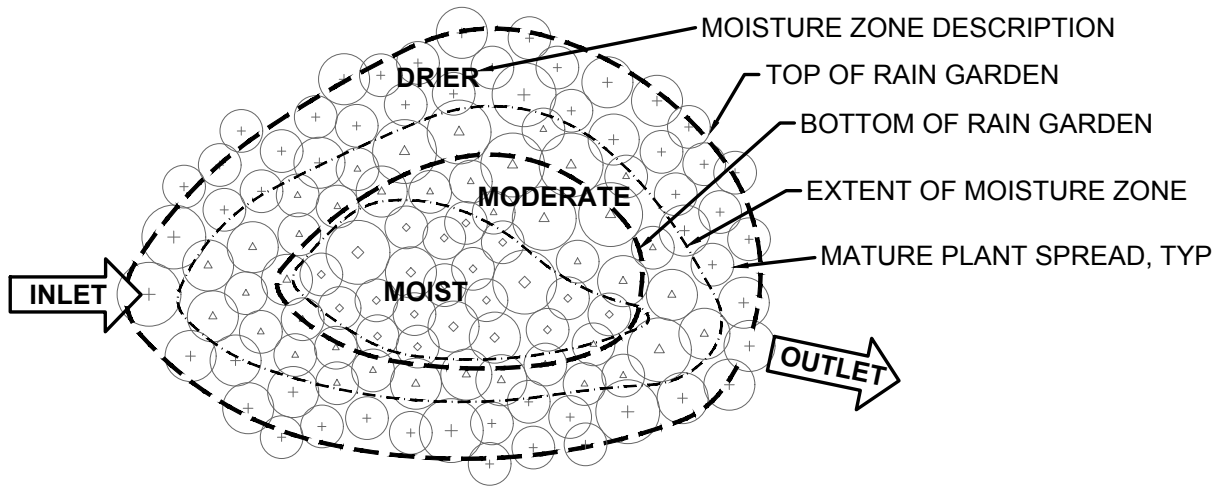
<p>Rogue Valley Stormwater Design Manual</p>	<p>Vehicular Permeable Paver Edges</p>	<p>Dwg BMP 2.04 1 of 1</p>
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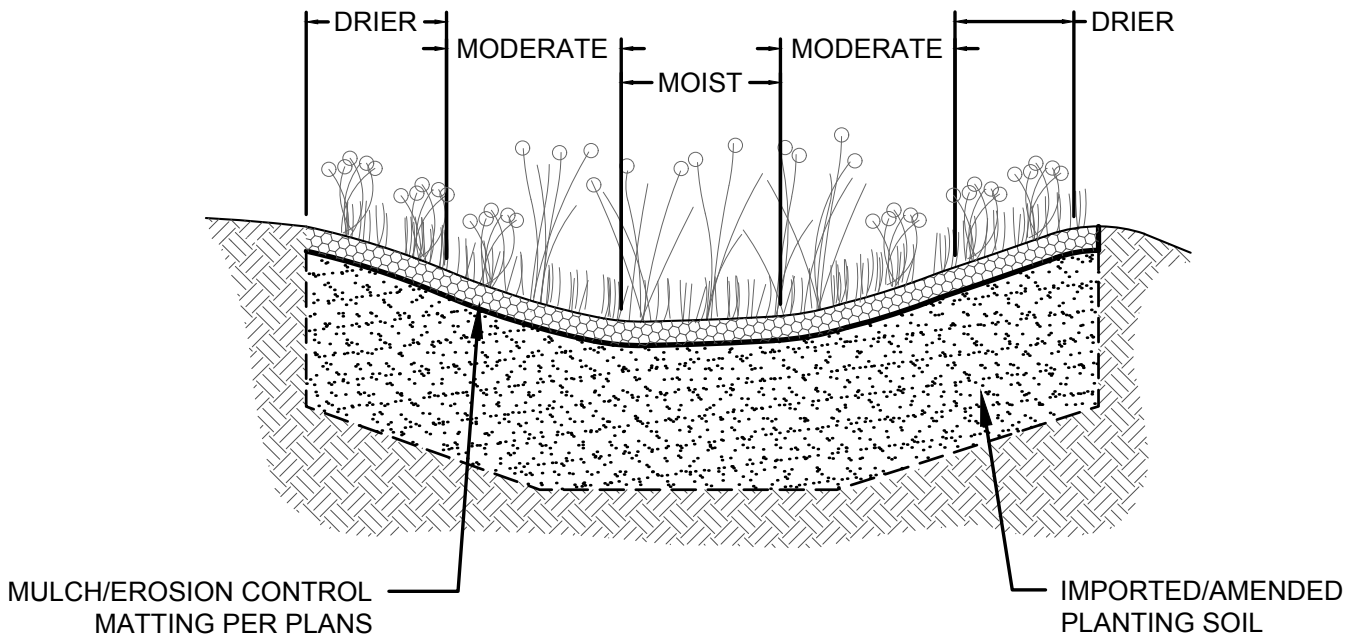
<p>Rogue Valley Stormwater Design Manual</p>	<p>Infiltration Rain Garden</p>	<p>BMP 3.01 1 of 1 Scale: NTS</p>
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PROFILE VIEW



LEGEND:

— — CONTOUR LINE

- - - MOISTURE ZONE

PLANT SPECIES APPROPRIATE FOR MOISTURE ZONE:

⊕ DRIER

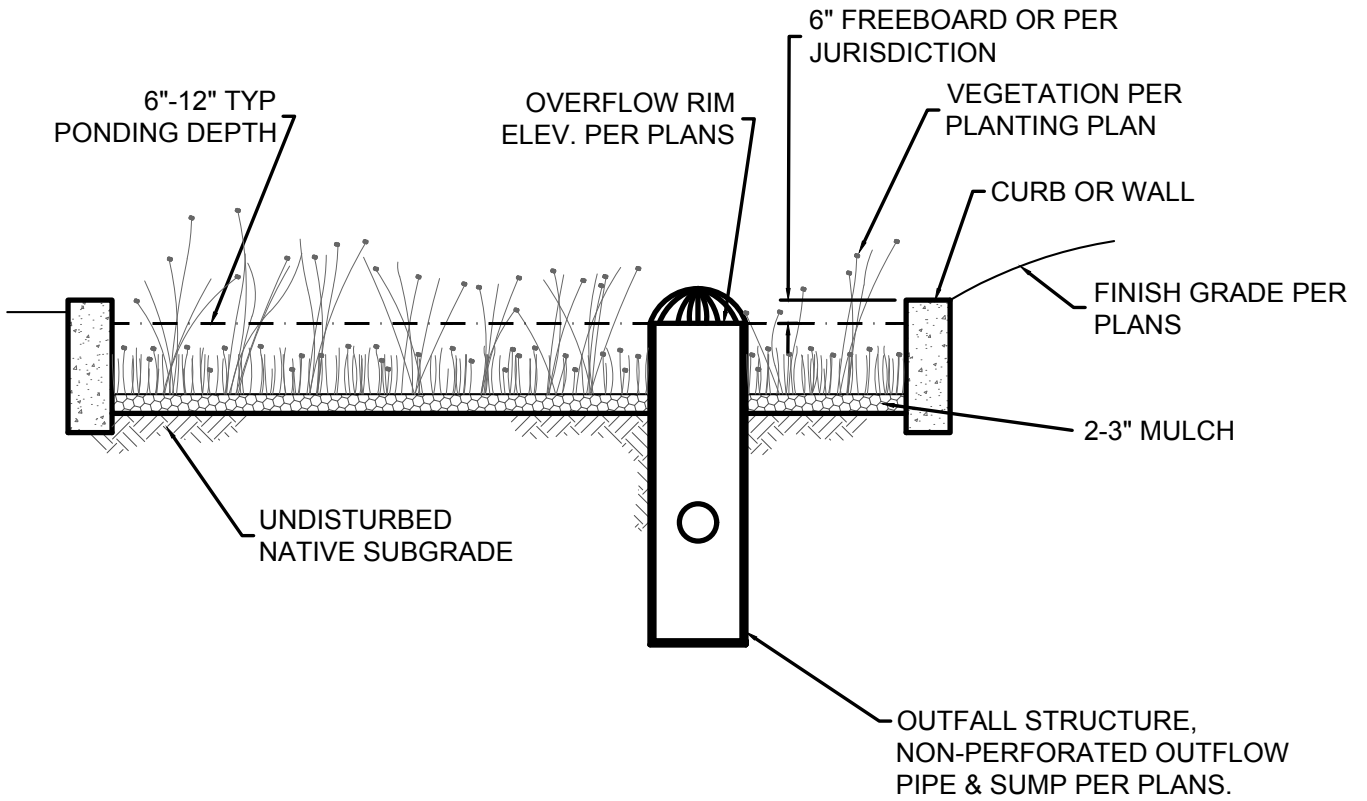
△ MODERATE

◇ MOIST

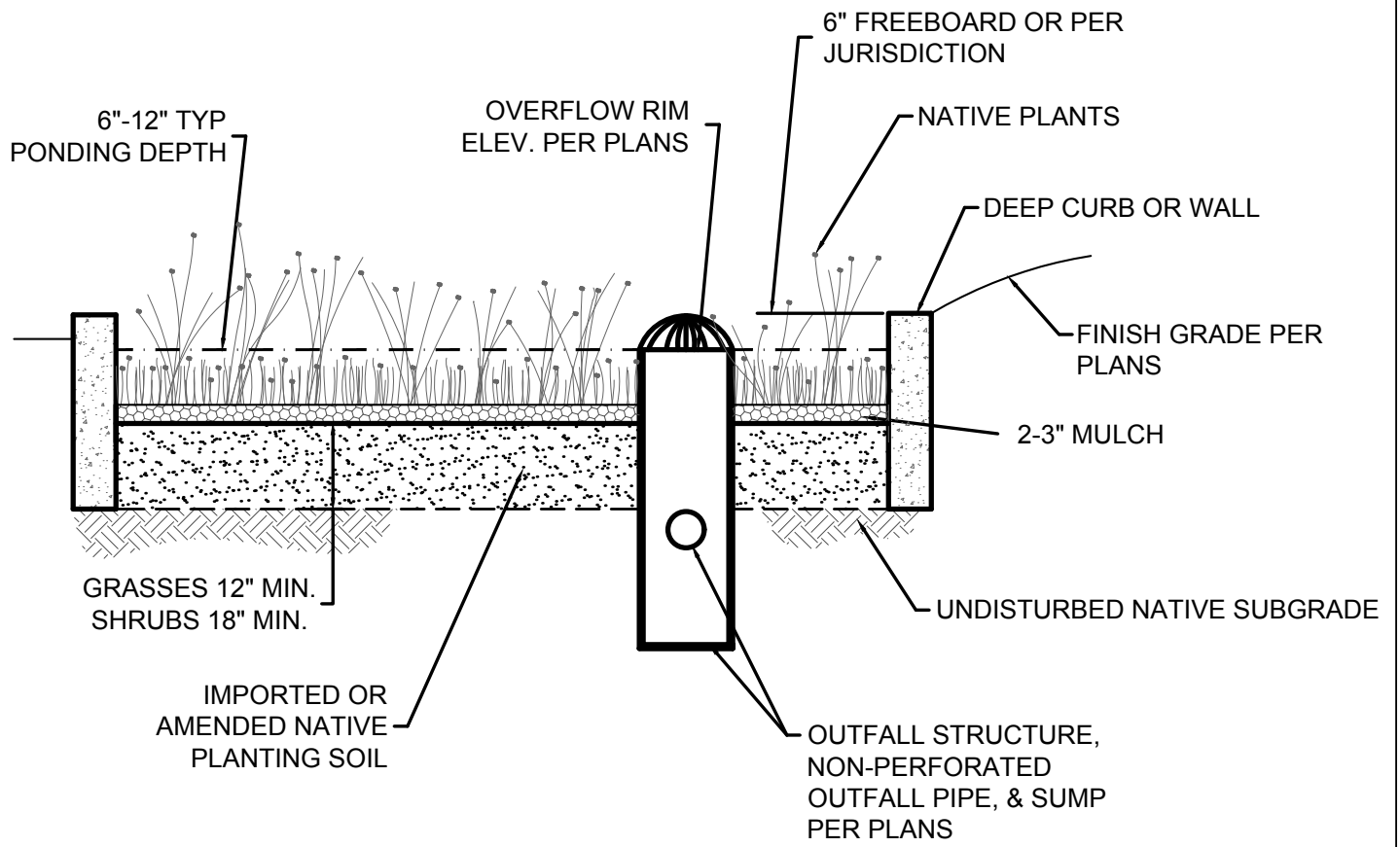
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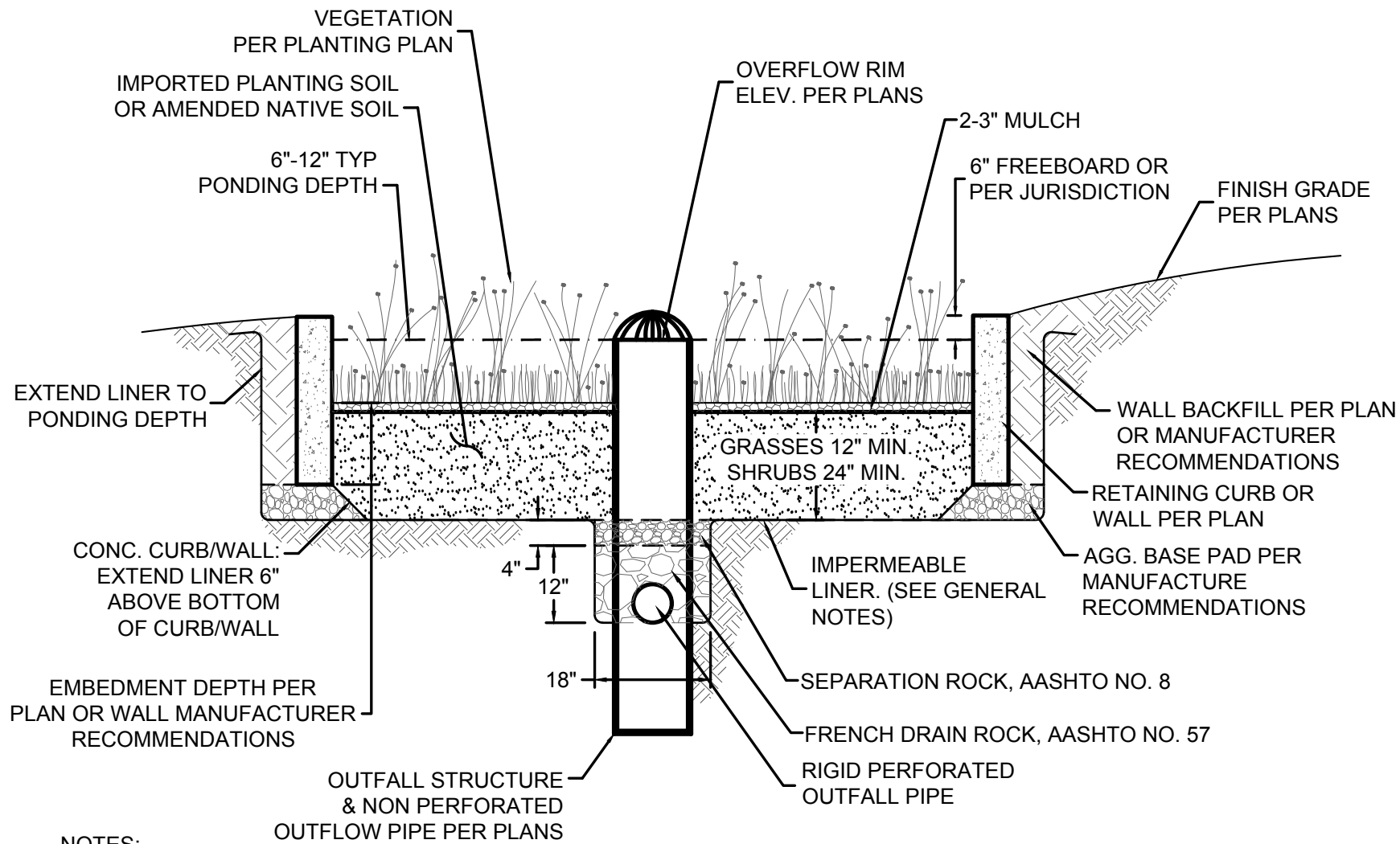
1. THIS DETAIL IS PROVIDED AS A SCHEMATIC EXAMPLE OF THE RANDOM PLANT PLACEMENT AND 95% COVERAGE AFTER ESTABLISHMENT PERIOD DESIRED TO REDUCE EROSION AND WEEDS.
2. INSTALL PLANTS PER PLANS, ACCORDING TO LANDSCAPE DESIGN PLANT TABLE, WHICH SHOULD INCLUDE PLANT SPECIES, SPACING, AND QUANTITIES IN EACH MOISTURE ZONE.
3. MOISTURE ZONES VARY FROM THOSE SHOWN DEPENDING ON GRADING PLAN, LOCATION OF INLET (S) AND OUTLET(S) AND FACILITY SHAPE.

<p>Rogue Valley Stormwater Design Manual</p>	<p>Rain Garden Planting Schematic</p>	<p>BMP 3.04 1 of 1 Scale: NTS</p>
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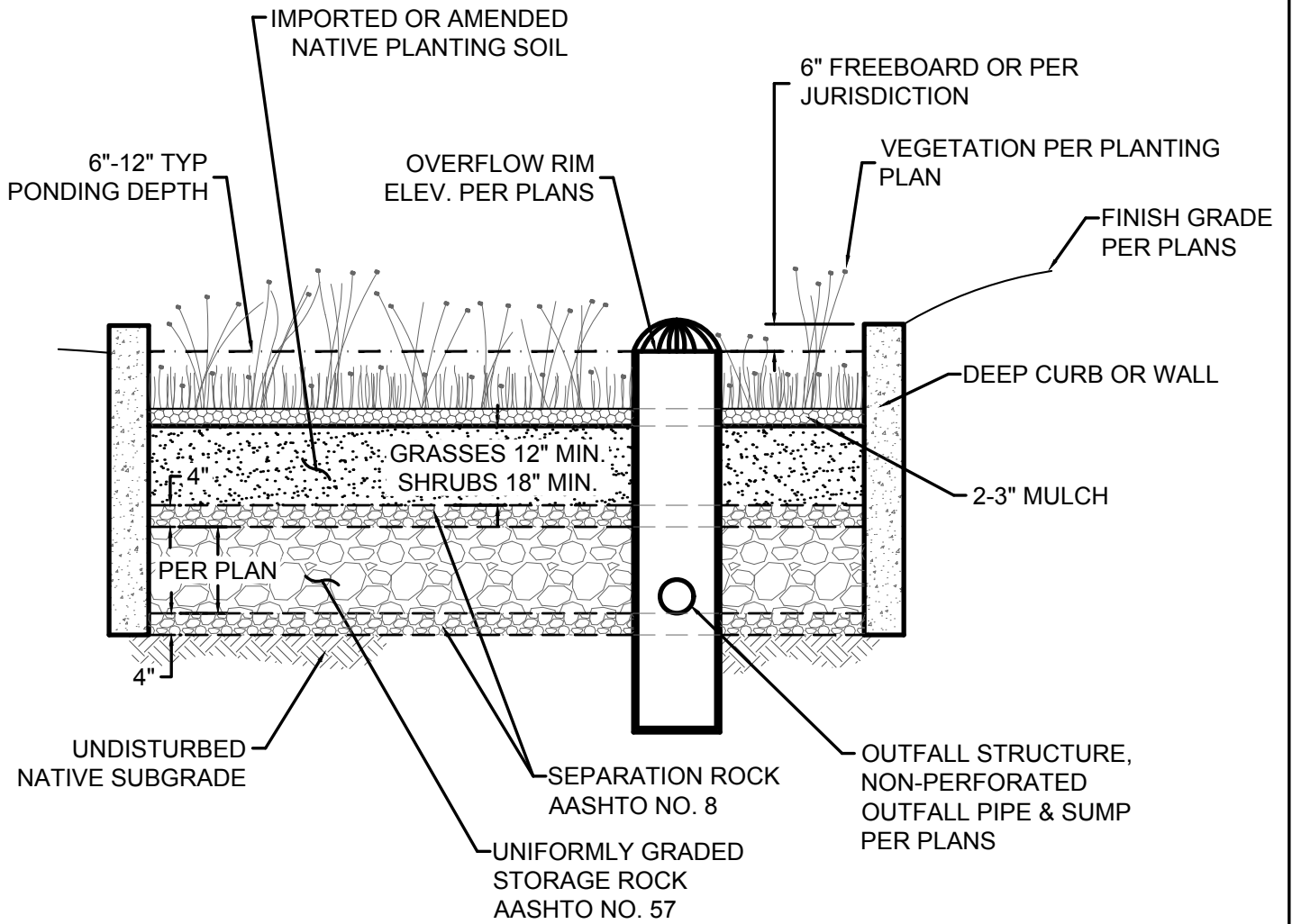
<p>Rogue Valley Stormwater Design Manual</p>	<p>Infiltration Stormwater Planter with Area Drain</p>	<p>BMP 4.01 1 of 1 Scale: NTS</p>
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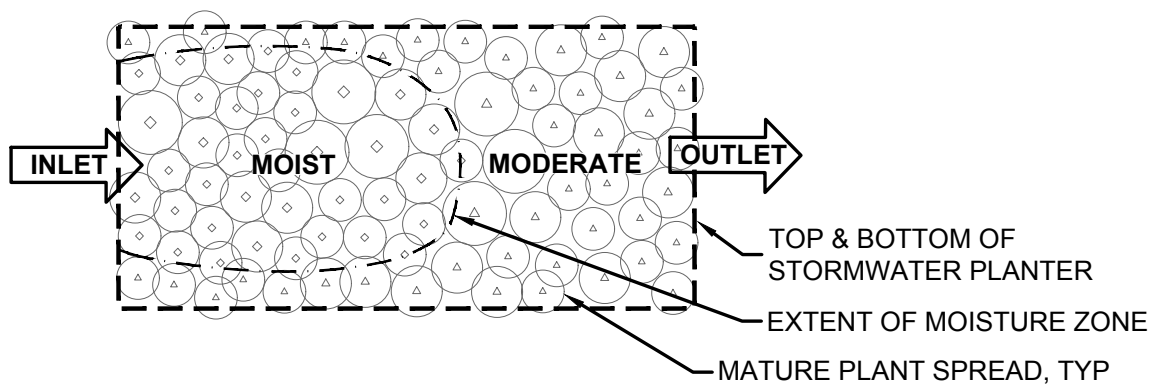




NOTES:

1. IF MONOLITHICALLY POURED CONCRETE PLANTER, NO ADDITIONAL LINER IS REQUIRED.





LEGEND:

--- CONTOUR LINE

- - - MOISTURE ZONE

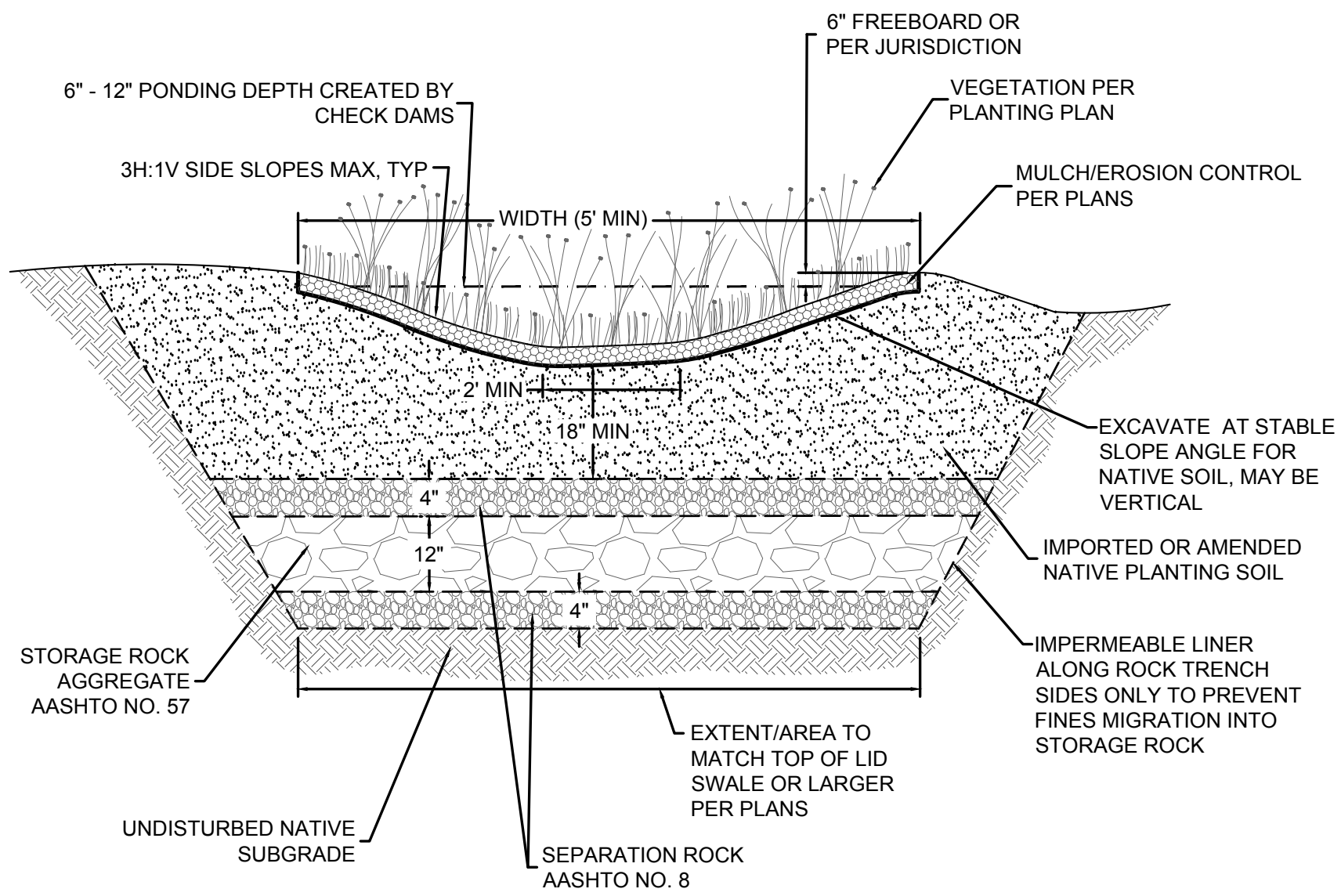
PLANT SPECIES APPROPRIATE FOR MOISTURE ZONE:

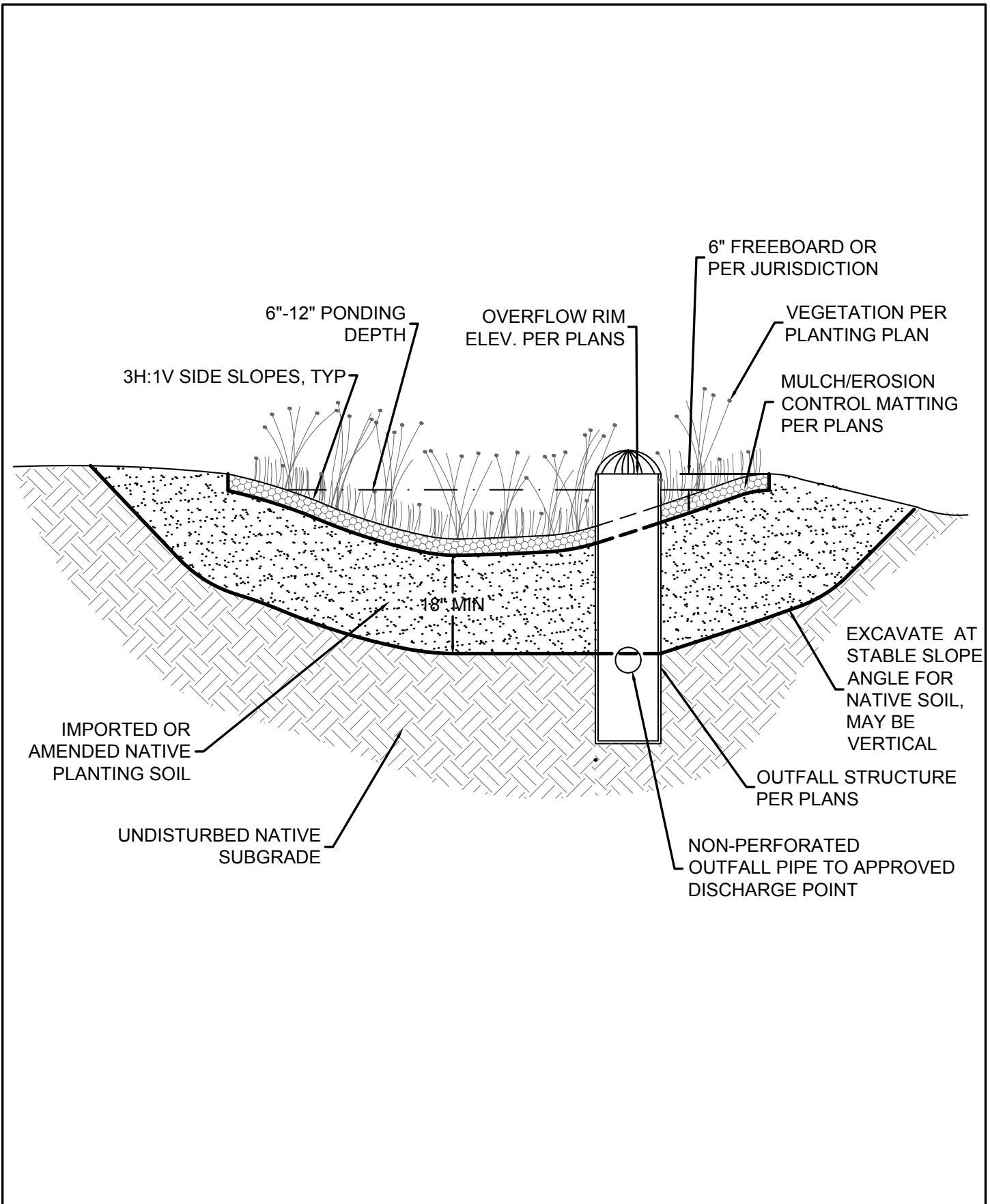
△ MODERATE

◇ MOIST

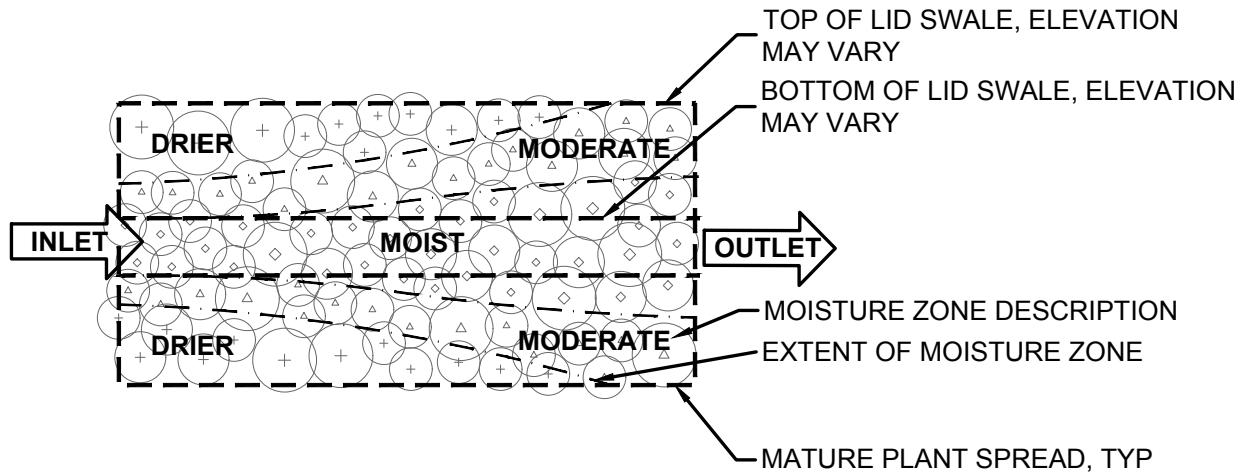
NOTES:

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2. INSTALL PLANTS PER PLANS, ACCORDING TO LANDSCAPE DESIGN PLANT TABLE , WHICH SHOULD INCLUDE PLANT SPECIES, SPACING, AND QUANTITIES IN EACH MOISTURE ZONE.
3. MOISTURE ZONES VARY FROM THOSE SHOWN DEPENDING ON GRADING PLAN, LOCATION OF INLET (S) AND OUTLET(S) AND FACILITY SHAPE.

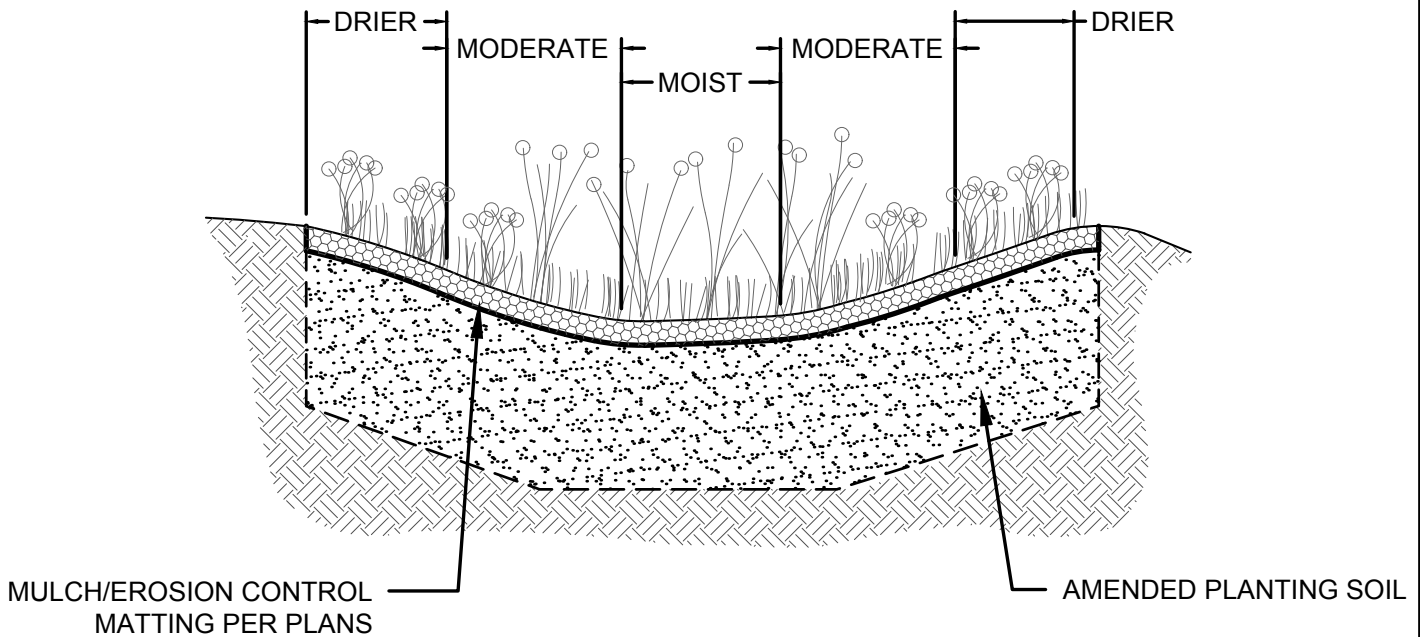




<p>Rogue Valley Stormwater Design Manual</p>	<p>Infiltration LID Swale with Planting Soil -- Lowest Elevation Cell with Area Drain</p>	<p>BMP 5.02 1 of 1 Scale: NTS</p>
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PROFILE VIEW



LEGEND:

--- CONTOUR LINE

- · - MOISTURE ZONE

PLANT SPECIES APPROPRIATE FOR MOISTURE ZONE:

⊕ DRIER

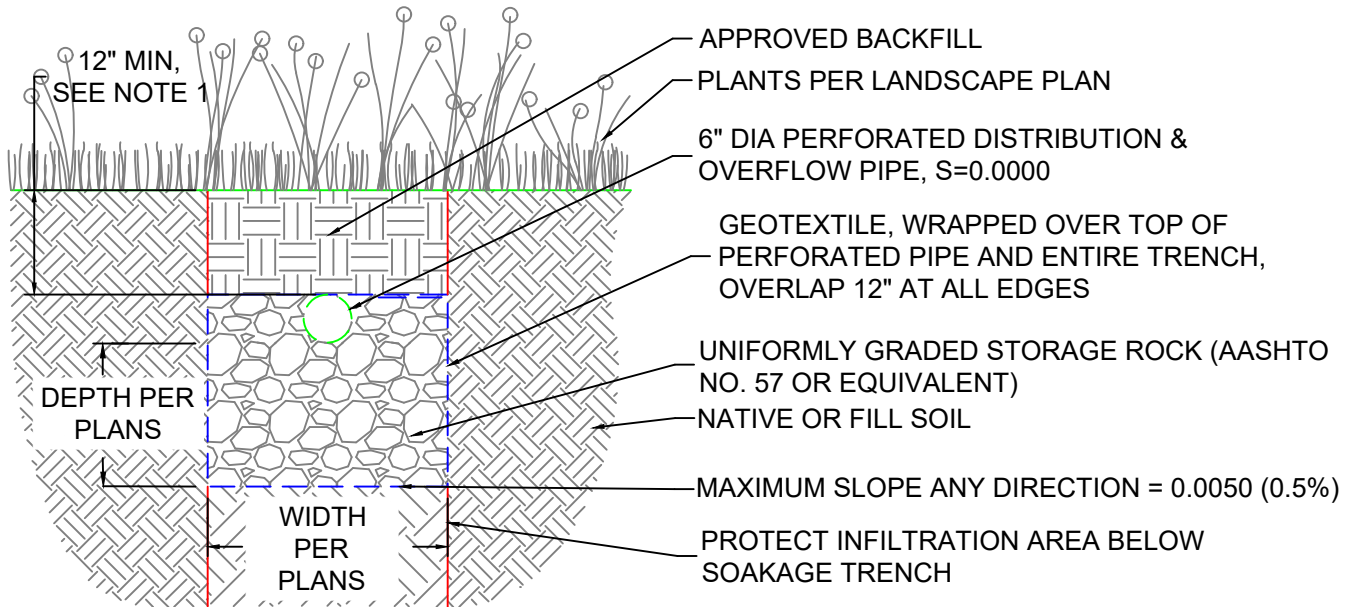
△ MODERATE

◇ MOIST

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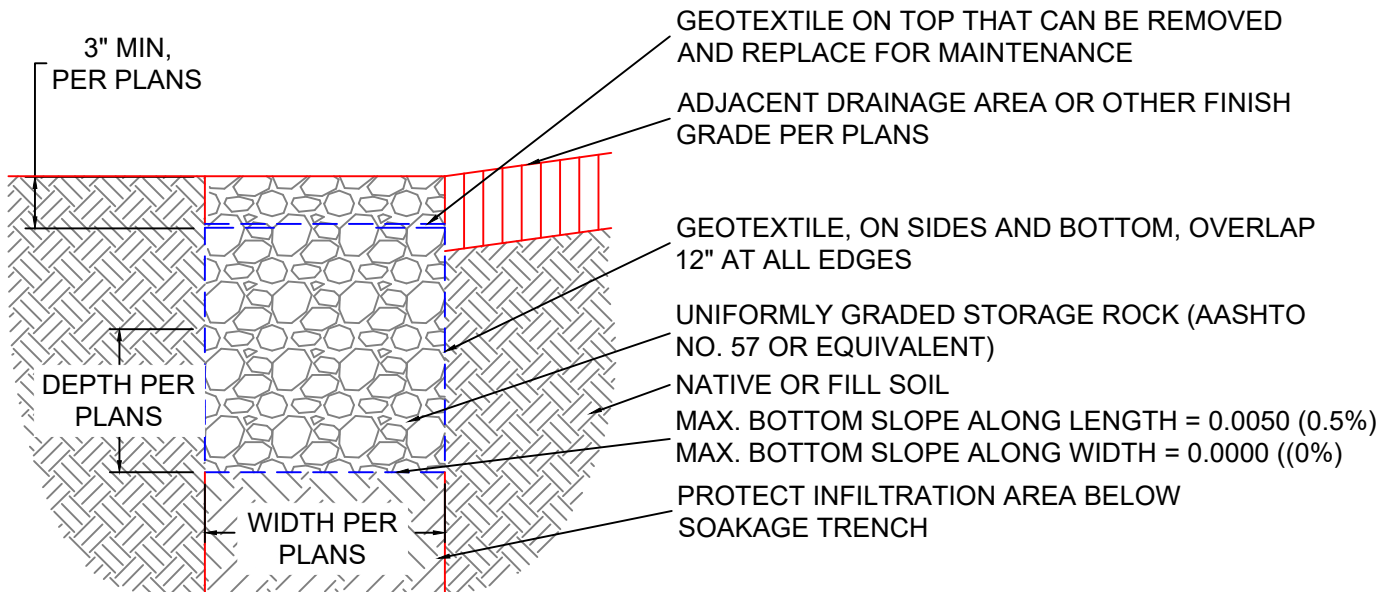
Soakage Trench in Landscape Area



NOTES

1. DEPTH TO PIPE MUST BE 12" MINIMUM FOR ADEQUATE SOIL DEPTH PER PLANT CHOICES:
 12" FOR LAWN
 18" FOR TALL GRASSES
 24" FOR SHRUBS
 36" FOR MOST TREES

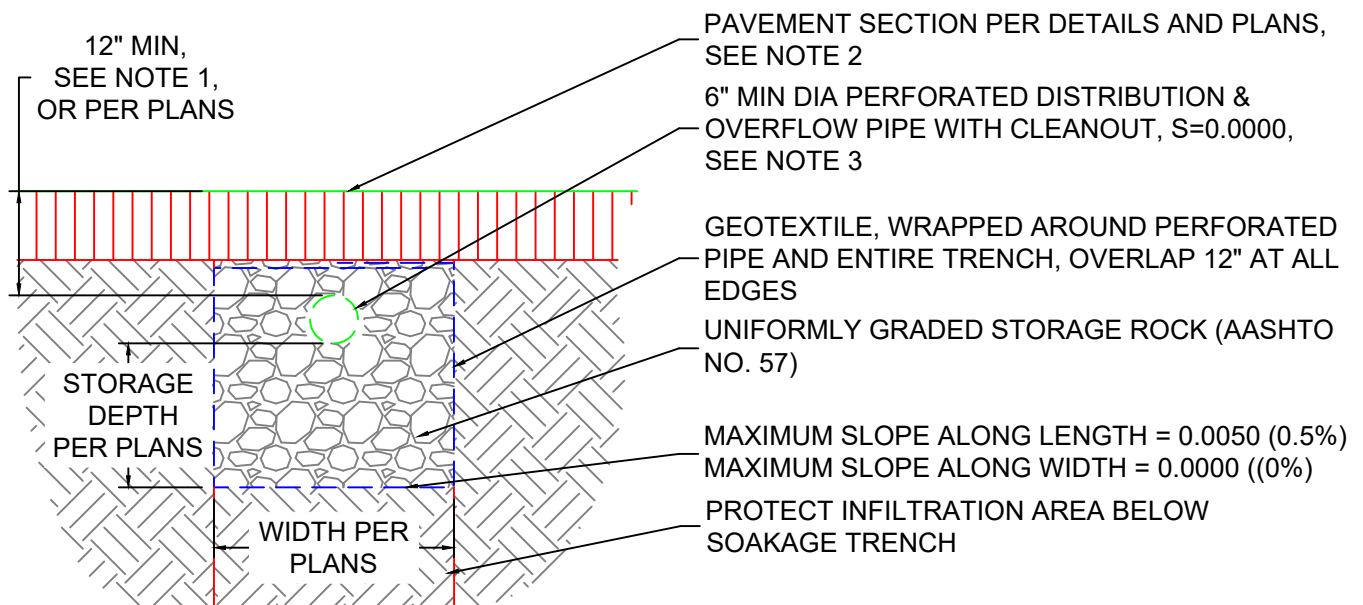
Soakage Trench at Surface



UIC AUTHORIZATION (NOT ALWAYS REQUIRED):

IF WATER IS DIRECTLY DISCHARGED TO THE SUBSURFACE, THE FACILITY MAY BE CONSIDERED A UIC AND MIGHT REQUIRE DEQ AUTHORIZATION. CONTACT DEQ TO FIND OUT ABOUT CURRENT UIC REGULATIONS AND WHETHER AUTHORIZATION WILL BE REQUIRED. DEQ'S UIC WEBPAGE: [HTTP://WWW.OREGON.GOV/DEQ/WQ/WQPERMITS/PAGES/UIC.ASPX](http://www.oregon.gov/DEQ/WQ/WQPERMITS/PAGES/UIC.ASPX).

Rogue Valley Stormwater Design Manual	Soakage Trench in Landscape Area	BMP 6.01 1 of 1 Scale: NTS
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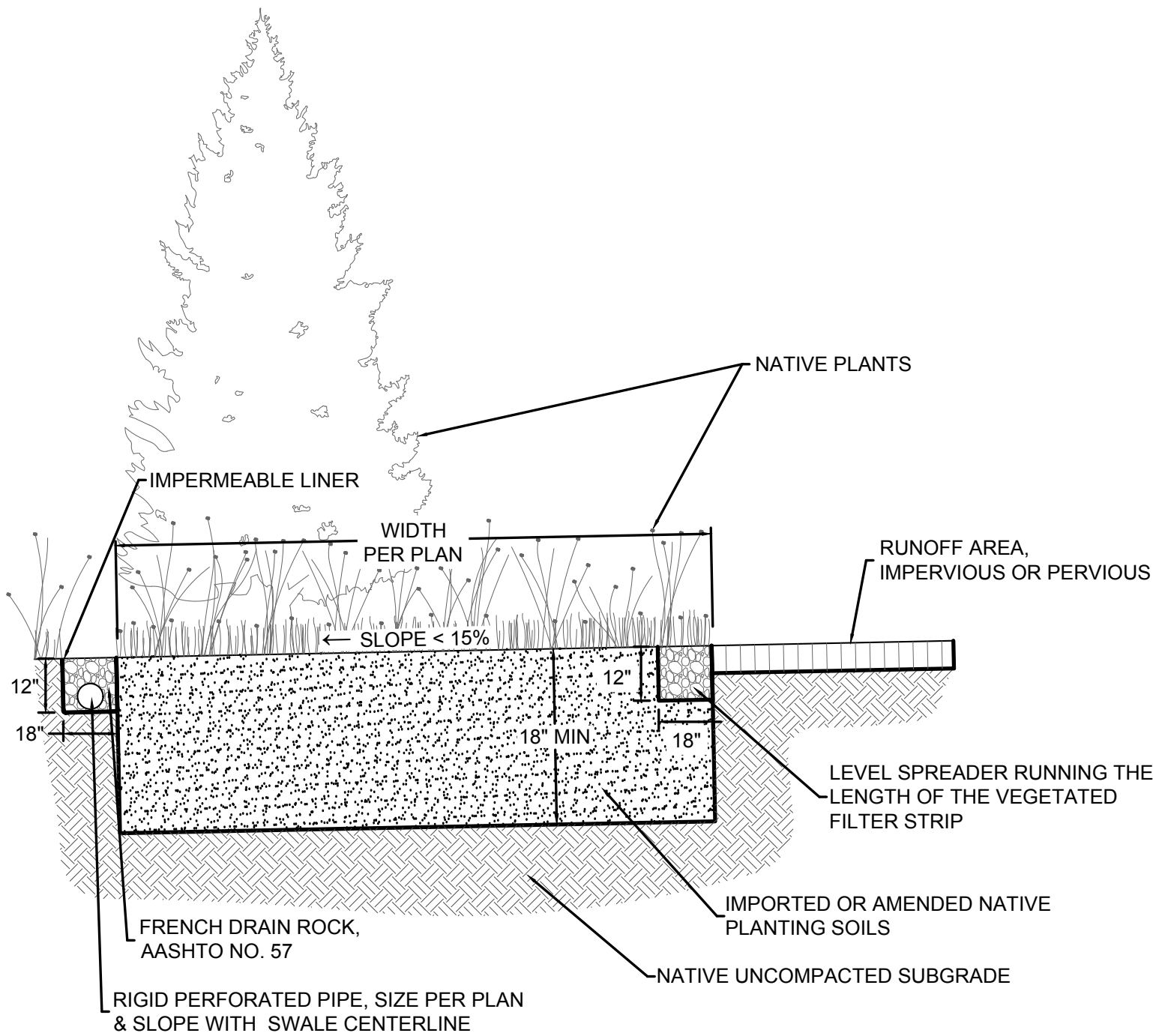


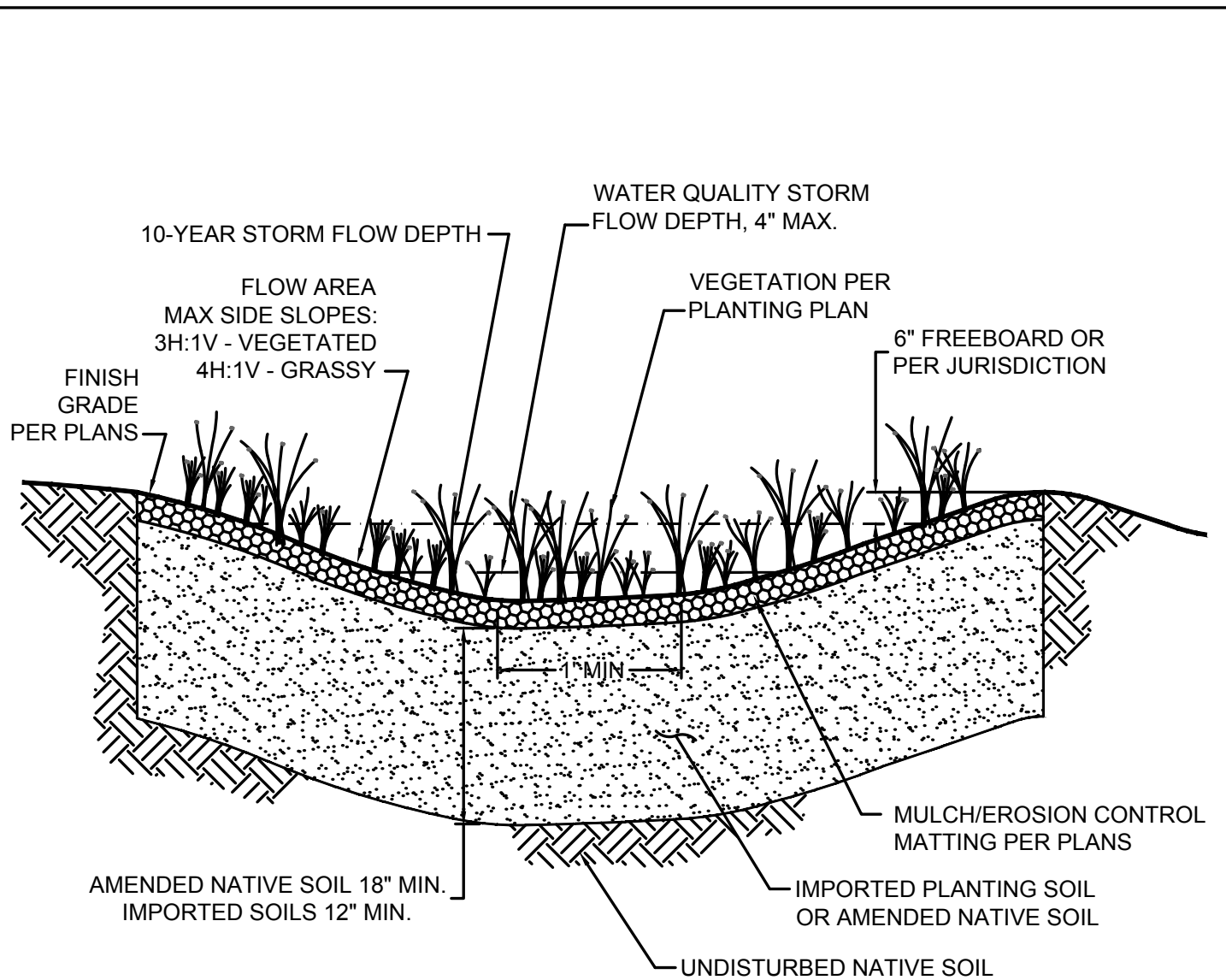
NOTES

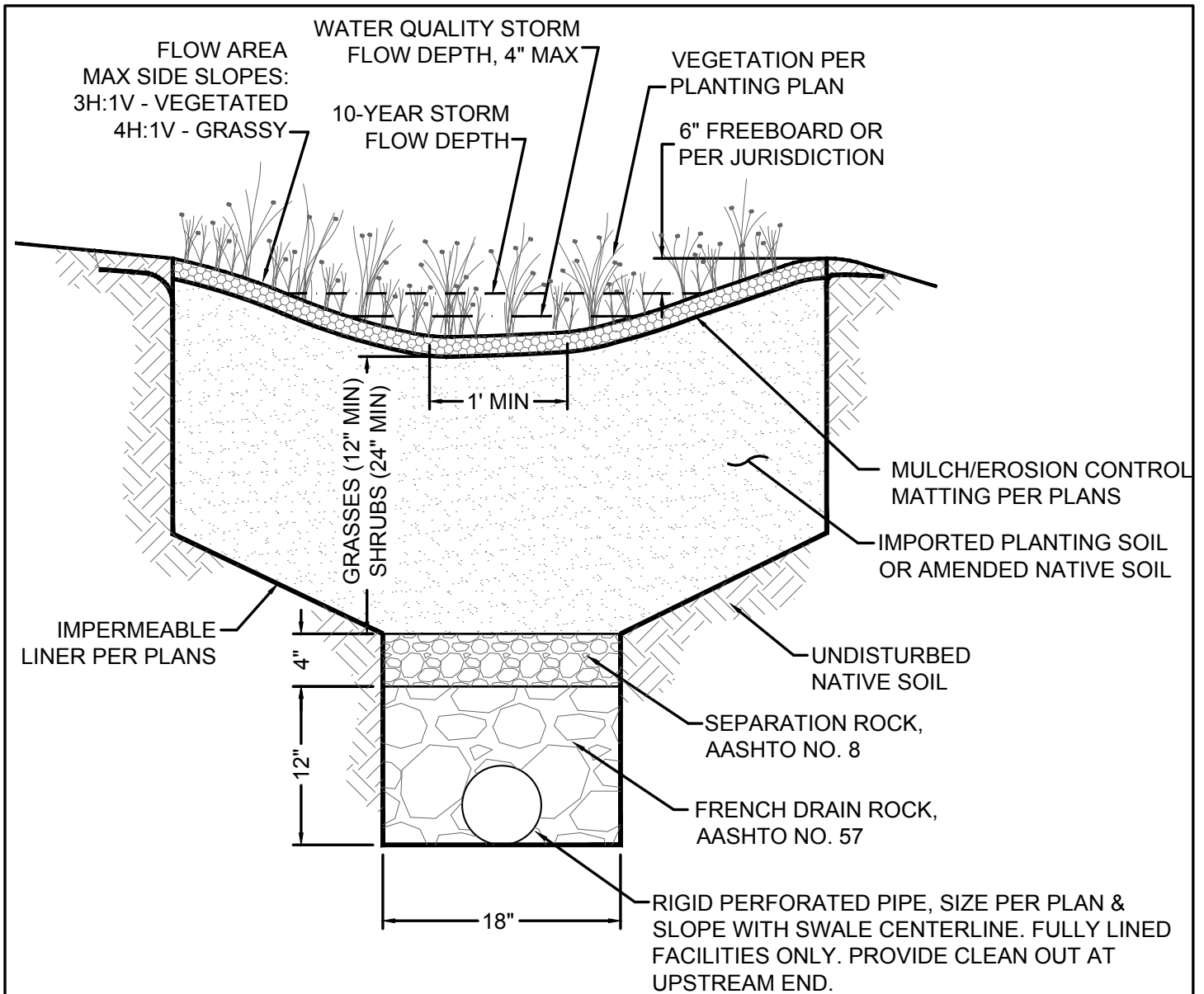
1. PROVIDE DEPTH TO PIPE NEEDED FOR ADEQUATE COVER BASED ON VEHICULAR LOADING, WHICH VARIES WITH PIPE MANUFACTURER.
2. PAVEMENT SECTION (DEPTH AND TYPE OF IMPERVIOUS PAVEMENT SURFACE, OPEN GRADED BASE ROCK) TO BE DESIGNED BY A GEOTECHNICAL ENGINEER TO SUPPORT PREDICTED TRAFFIC LOADING BASED ON UNDERLYING NATIVE SOILS IN A WET, UNCOMPACTED CONDITION. DO NOT COMPACT
3. IF PERFORATED DISTRIBUTION PIPE WILL BE LOCATED ON THE BOTTOM OF THE TRENCH TO ACHIEVE ADEQUATE COVER, INCORPORATE A CATCH BASIN CONTROL STRUCTURE (SEE BMP 8.01) OR EQUIVALENT DEVICE TO ENSURE WATER BACKS UP INTO STORAGE ROCK DEPTH.

UIC AUTHORIZATION (NOT ALWAYS REQUIRED):

IF WATER IS DIRECTLY DISCHARGED TO THE SUBSURFACE, THE FACILITY MAY BE CONSIDERED A UIC AND MIGHT REQUIRE DEQ AUTHORIZATION. CONTACT DEQ TO FIND OUT ABOUT CURRENT UIC REGULATIONS AND WHETHER AUTHORIZATION WILL BE REQUIRED. DEQ'S UIC WEBPAGE: [HTTP://WWW.OREGON.GOV/DEQ/WQ/WQPERMITS/PAGES/UIC.ASPX](http://www.oregon.gov/deq/wq/wqpermits/pages/uic.aspx).

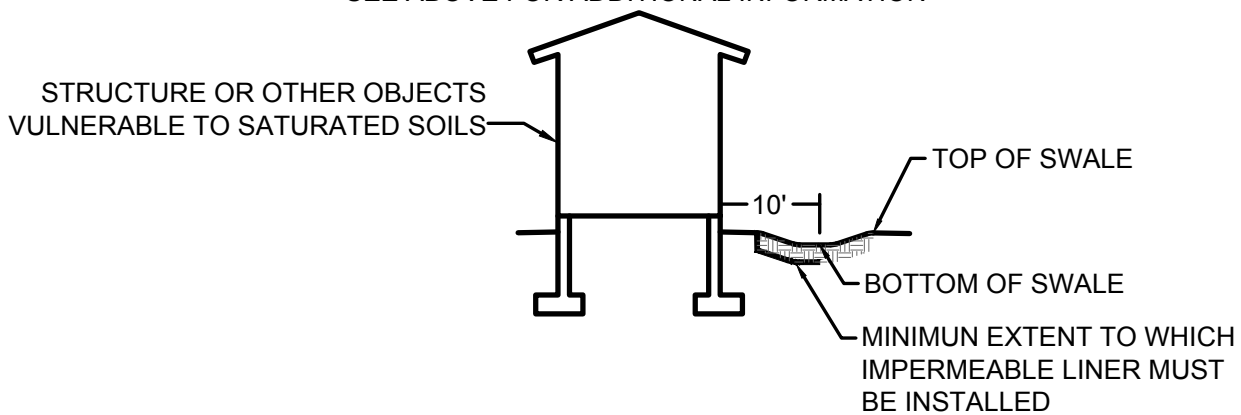






PARTIALLY LINED FACILITY

SEE ABOVE FOR ADDITIONAL INFORMATION



NOTES:

1. DEPTH OF SOIL VARIES WITH PROPOSED VEGETATION TYPE:
 - GRASSES 12"
 - SHRUBS 24"

- * GENERAL WATER QUALITY CONVEYANCE SWALE NOTES MUST ACCOMPANY THIS DETAIL

MATERIAL SPECIFICATIONS

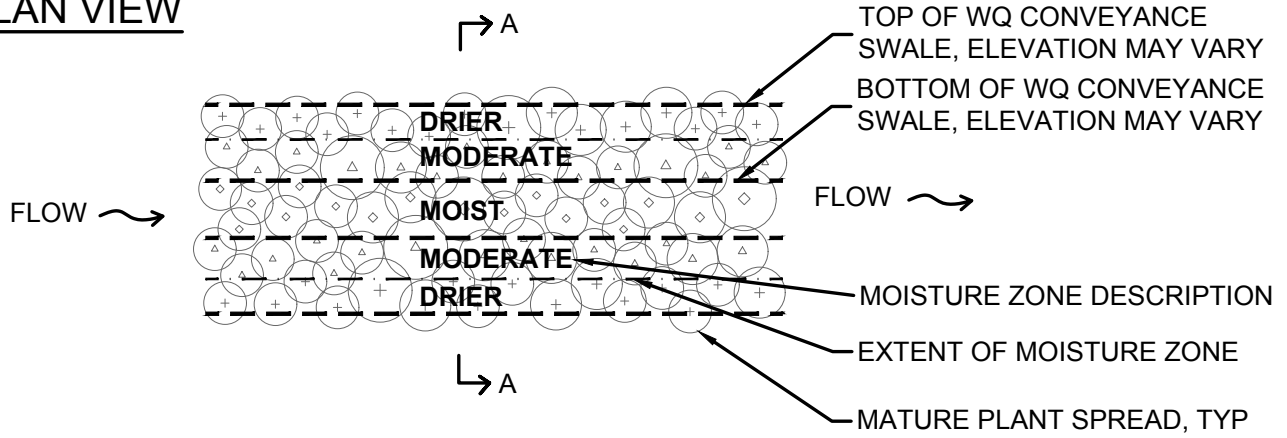
OPEN GRADED AASHTO NO. 8	
U.S. STANDARD SIEVE SIZE	PERCENT PASSING
½" (12.5 MM)	100
¾" (19.0 MM)	85-100
4 (4.75 MM)	10-30
8 (2.36 MM)	0-10
16 (1.18 MM)	0-5

DRAINAGE ROCK AASHTO NO. 57	
U.S. STANDARD SIEVE SIZE	PERCENT PASSING
1 ½" (37.5 MM)	100
1" (9.5 MM)	95-100
½" (12.5 MM)	25-60
4 (4.75 MM)	0-10
8 (2.36 MM)	0-5

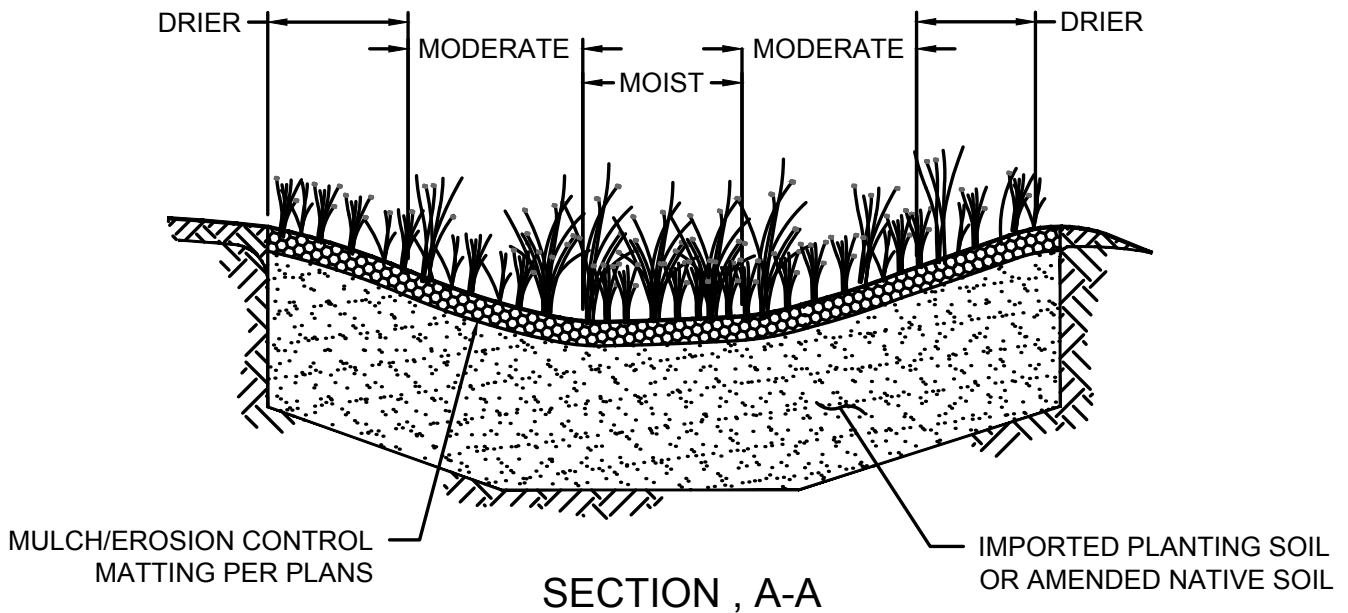
IMPERMEABLE LINER SPECIFICATIONS

1. MATERIAL SPECIFICATIONS. IMPERMEABLE LINERS MAY BE A 30 MIL (MINIMUM) LOW DENSITY POLYETHYLENE (LDPE), 30 MIL (MINIMUM) ETHYLENE PROPYLENE DIENE MONOMER (EPDM) OR BENTONITE CLAY MAT PER MANUFACTURER GUIDANCE.
2. PLACEMENT. INSTALL THE LINER SECURELY AT A HEIGHT EQUAL TO THE DEPTH OF WATER THAT MAY BE PONDED OR FLOWING DURING 25 YEAR STORM.

PLAN VIEW



PROFILE VIEW



LEGEND:

— — INDICATES GRADE BREAK

- - - MOISTURE ZONE

PLANT SPECIES APPROPRIATE FOR MOISTURE ZONE:

- ⊕ DRIER
- △ MODERATE
- ◇ MOIST

NOTES:

1. THIS DETAIL IS PROVIDED AS A SCHEMATIC EXAMPLE OF THE RANDOM PLANT PLACEMENT AND 90% COVERAGE AFTER ESTABLISHMENT PERIOD DESIRED TO REDUCE EROSION AND WEEDS.
2. INSTALL PLANTS PER PLANS, ACCORDING TO LANDSCAPE DESIGN PLANT TABLE, WHICH SHOULD INCLUDE PLANT SPECIES, SPACING, AND QUANTITIES IN EACH MOISTURE ZONE.
3. MOISTURE ZONES VARY FROM THOSE SHOWN DEPENDING ON GRADING PLAN, LOCATION OF INLET(S) AND OUTLET(S) AND FACILITY SHAPE.

