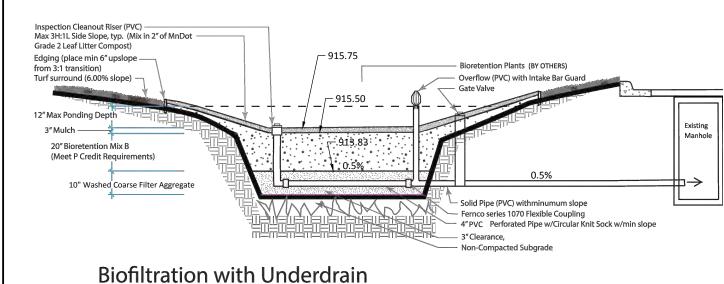


Not To Scale



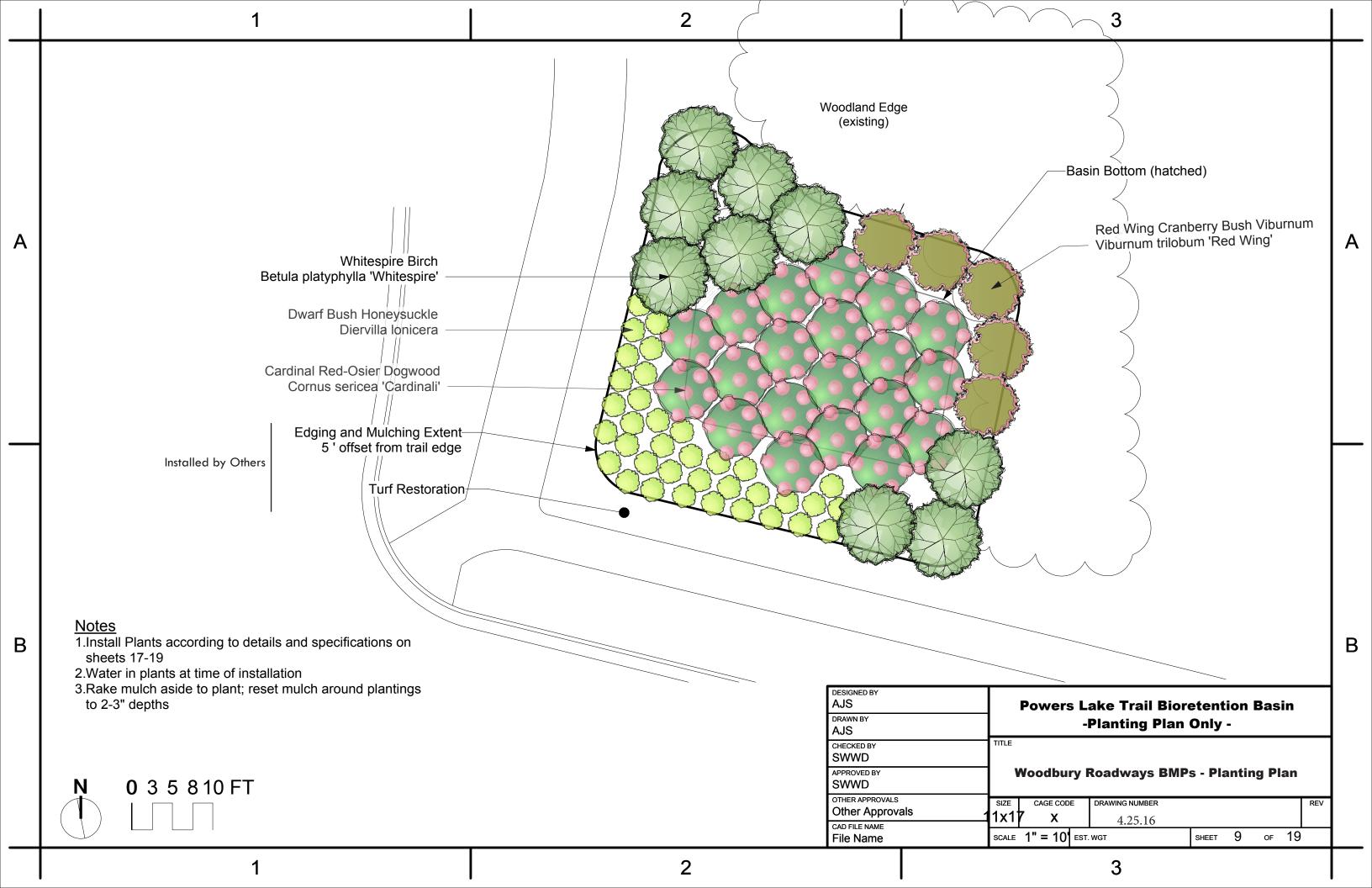
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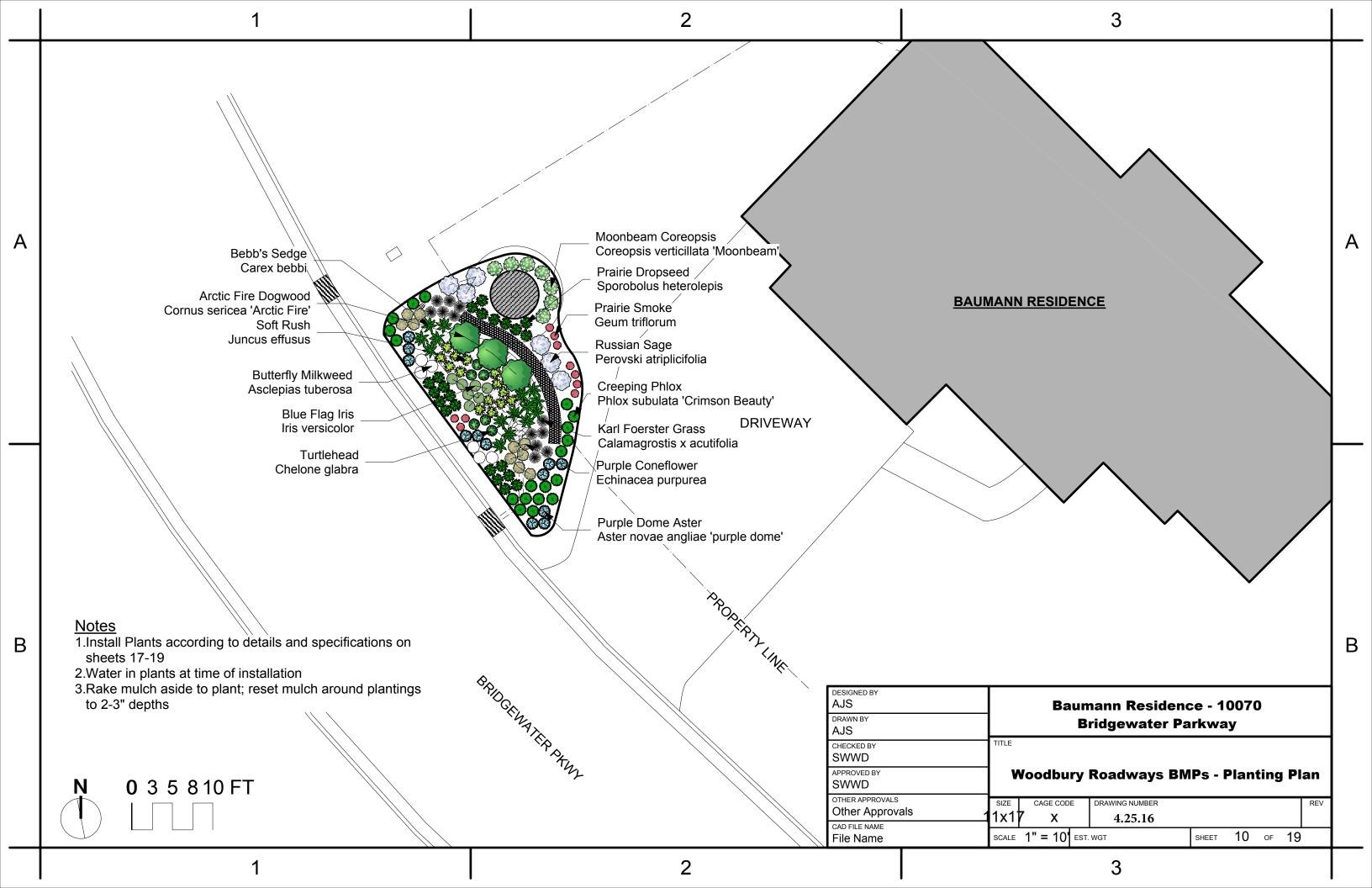
**BOLTON & MENK, INC.** 

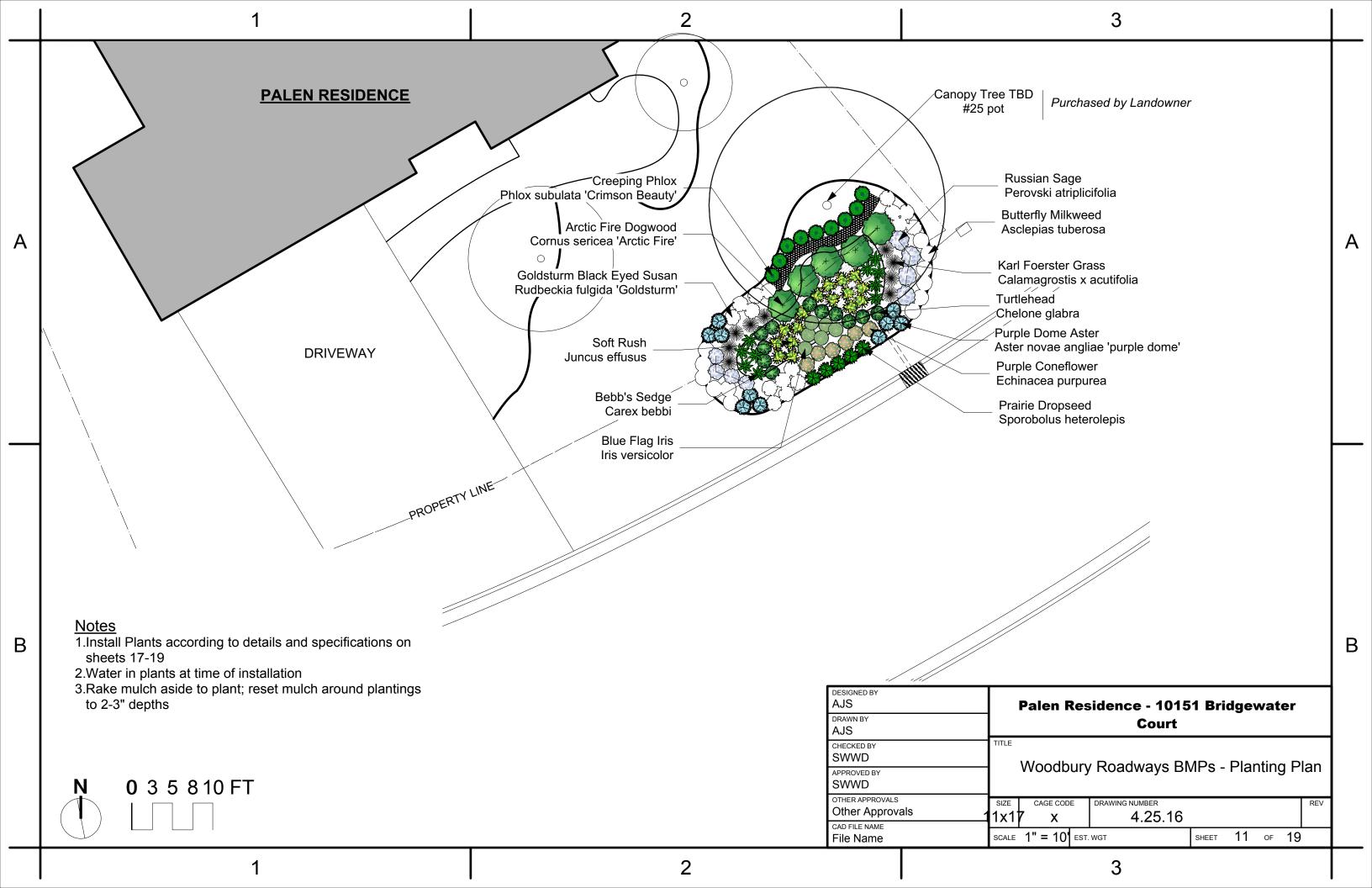
Consulting Engineers & Surveyors 2035 County Road D East, Suite B - Maplewood, Minnesota 55109 Phone: 651-704-9970 Email: Maplewood@bolton-menk.com www.bolton-menk.com

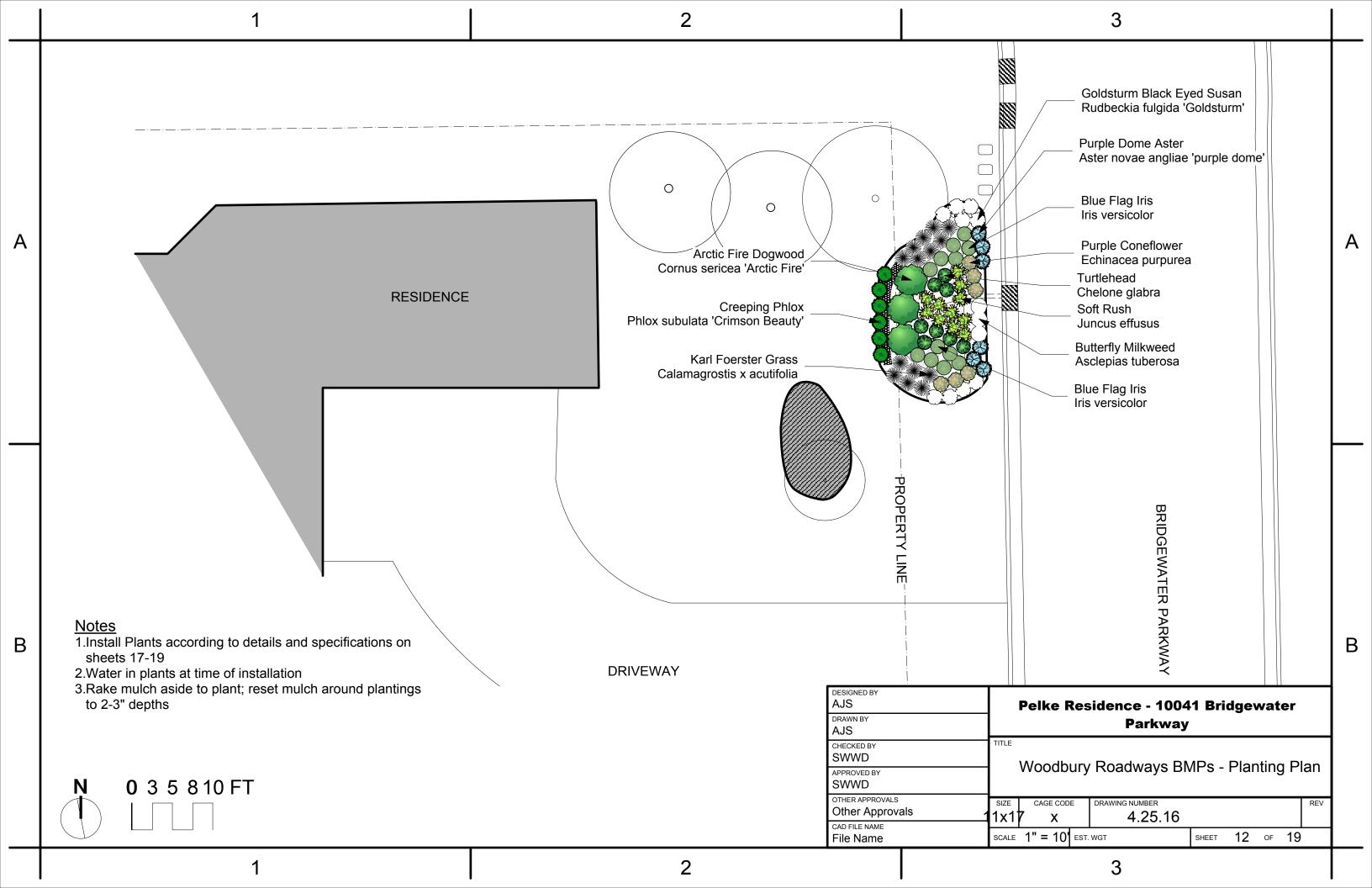
BY	DATE	WOODBURY, MINNESOTA	SHEET	
		2016 ROADWAY REHABILITATION PROJECT - RESIDENTIAL AREA	C5 16	l
		UNDER DRAIN DETAIL	C3.10	l
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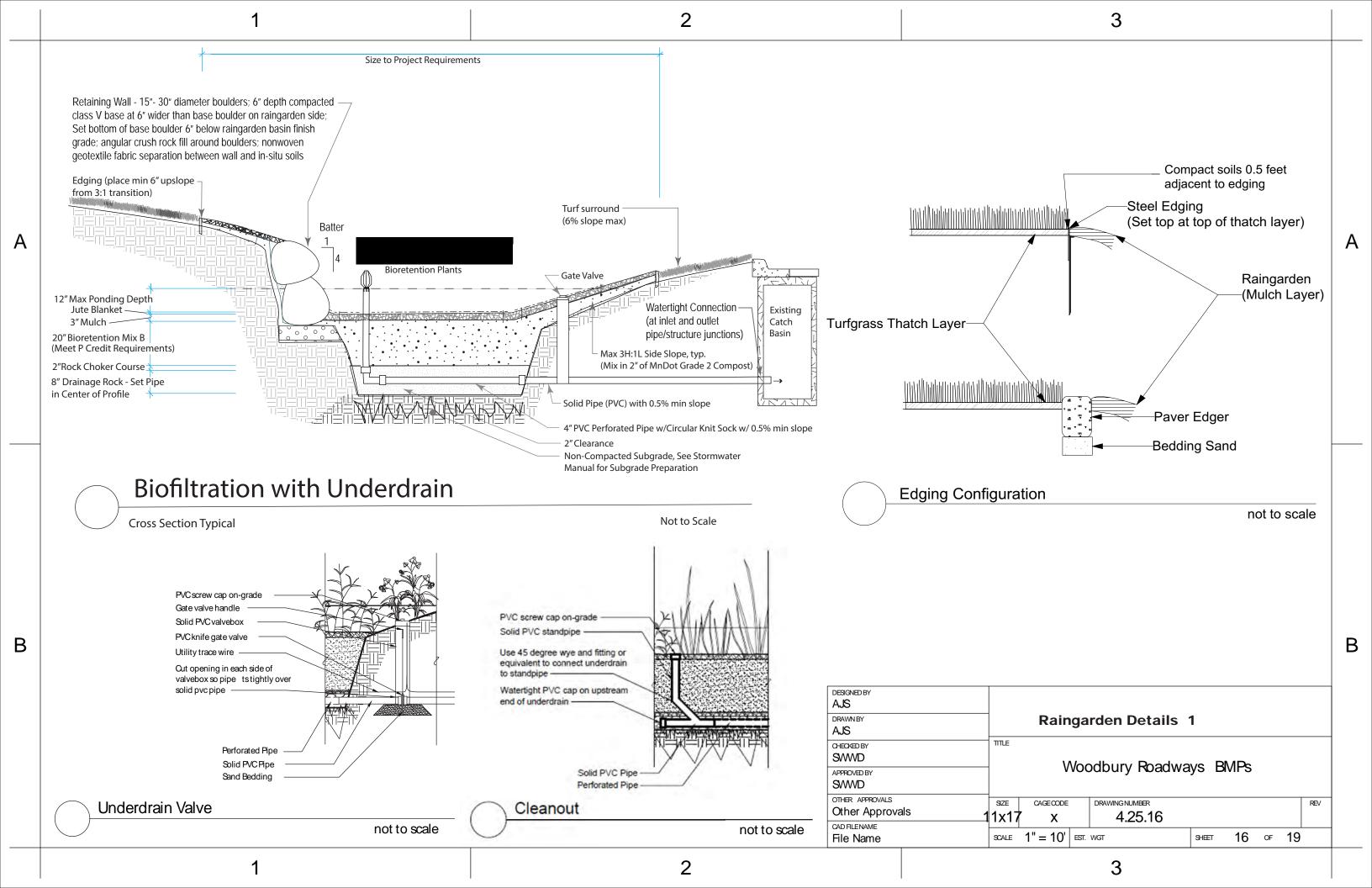
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	Plant Schedule - All Locations*				
	ID Qty Latin Name	Common Name	Scheduled Size	Spacing	
	AnPD 54 Aster novae angliae 'purple dom		#1	24"	
Α	At 51 Asclepias tuberosa	Butterfly Milkweed	4" pot	24"	
	BpW 9 Betula platyphylla 'Whitespire'	Whitespire Birch	#15 - TF	96"	A
	Cb 58 Carex bebbi	Bebb's Sedge	4" pot	24"	
	Cg 34 Chelone glabra	Turtlehead	4" pot	24"	
	CsAF-1 22 Cornus sericea 'Arctic Fire'	Arctic Fire Dogwood	#2	48"	
	CSC 20 Cornus sericea 'Cardinali'	Cardinal Red-Osier Dogwood	#2	72-84"	
	CvM 7 Coreopsis verticillata 'Moonbean		#1	24"	
	<b>Ep</b> 55 Echinacea purpurea	Purple Coneflower	4" pot	24"	
	ET 70 Calamagrostis x acutifolia	Karl Foerster Grass	#1	24"	
	Gt 56 Rudbeckia fulgida 'Goldsturm'	Goldsturm Black Eyed Susan	#1	24"	
	Gtr 10 Geum triflorum	Prairie Smoke	4" pot	18"	
	iv 80 Iris versicolor	Blue Flag Iris	4" pot	24"	<u> </u>
	<b>Je</b> 94 Juncus effusus	Soft Rush	4" pot	24"	
	MS 02 43 Diervilla lonicera	Dwarf Bush Honeysuckle	#1	36"	
	Pa 24 Perovski atriplicifolia	Russian Sage	#1	30"	
	PsCB 48 Phlox subulata 'Crimson Beauty'	Creeping Phlox	#1	24"	
	Sh 63 Sporobolus heterolepis	Prairie Dropseed	4" pot	24"	
	ToB 3 Thuja occidentalis 'Bobozam'	Mr. Bowling Ball Arborvitae	#2	36"	
	VTRW 5 Viburnum trilobum 'Red Wing'	Red Wing Cranberry Bush Viburnum	#5	72"-84"	
	*Includes plant quantities from three raingarden loc	ations not in Powers Lake neighborhood.			
_					
В					В
				<u>_</u>	
			DESIGNED BY AJS		
			DRAWN BY AJS	PLANT SCHEDU	JLE
			CHECKED BY SWWD	TITLE	
			APPROVED BY SWWD	Woodbury Roadway	/s BMPs
			OTHER APPROVALS		REV
			Other Approve CAD FILE NAME	/als 1x17 x 4.25.16	
			File Name		ынеет <b>8</b> оғ <b>19</b>
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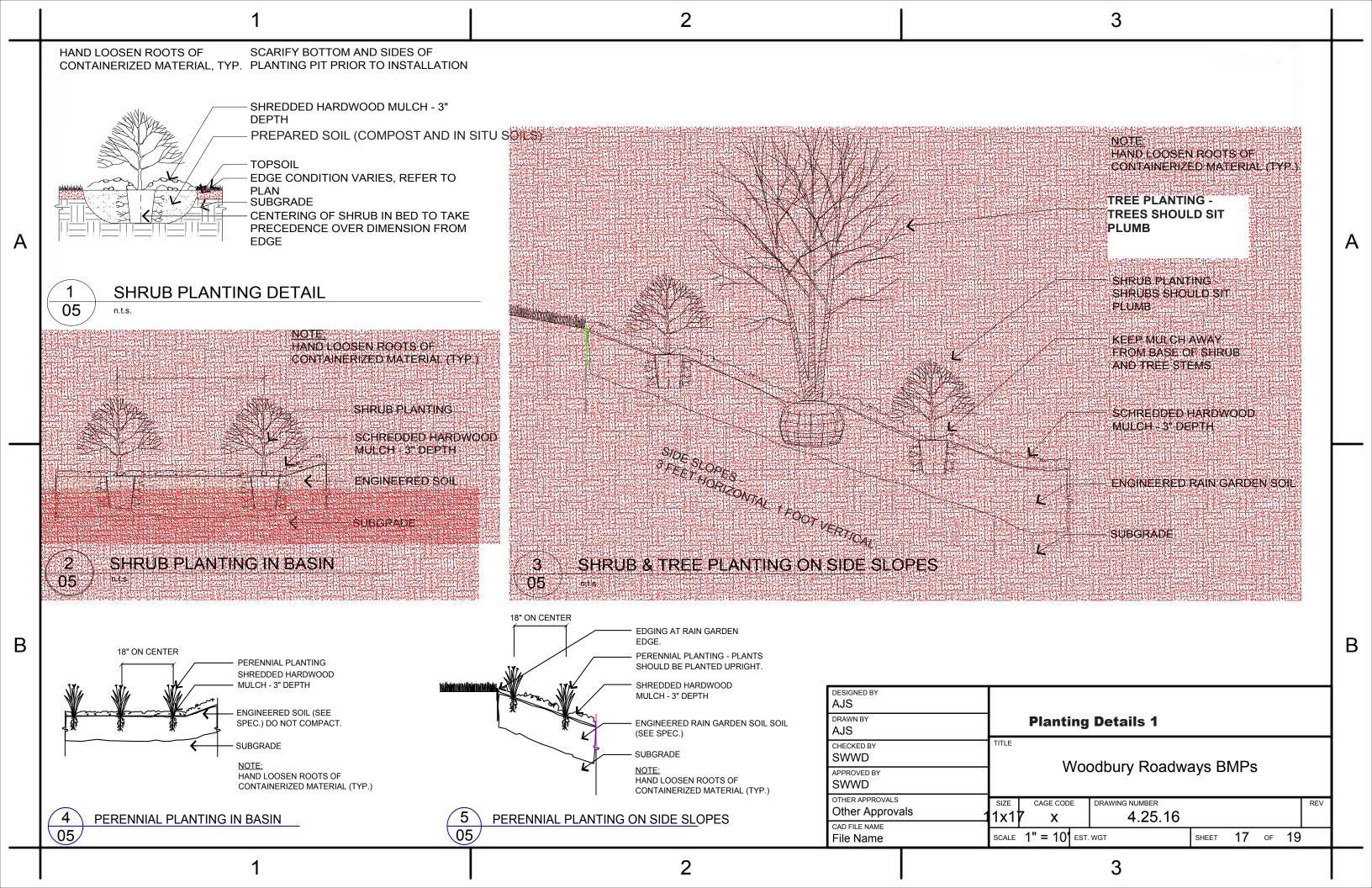


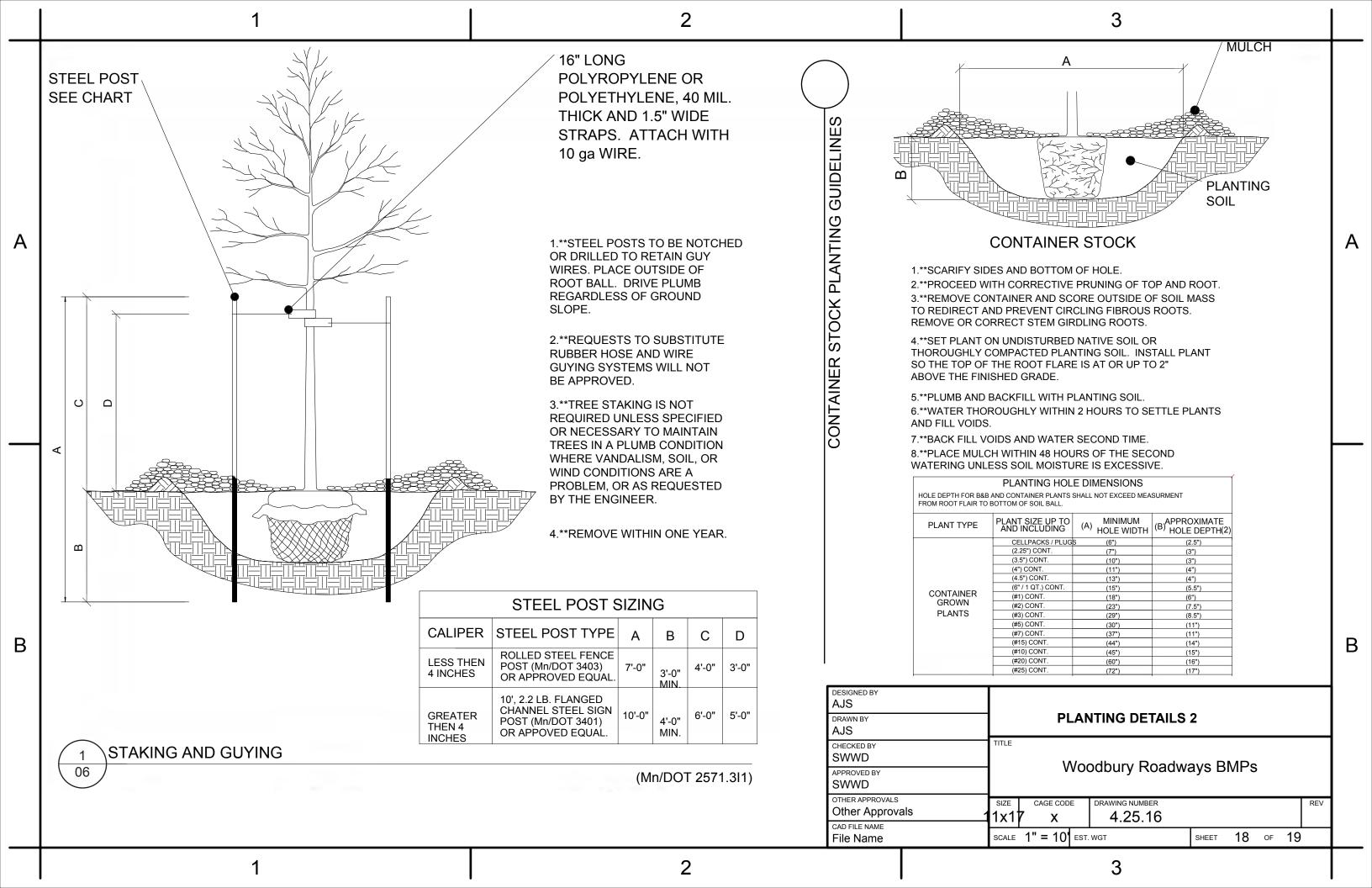












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	Bioretention Installation Notes		Planting Notes			
	<ol> <li>The South Washington Watershed District (SWWD) is providing quality of bioretention installations. Call the SWWD at (651) 714-3717 to schedule any work and/or installing any concrete, mulch and/or plant materials.</li> <li>The project area must be staked off and marked to keep all construction stockpiles out of the proposed bioretention areas.</li> <li>Bioretention practices shall not be excavated until the contributing drainad been fully stabilized. Divert upland drainage areas to prevent runoff from the work area. Do not use bioretention cells as temporary sediment basis the cell.</li> </ol>	traffic, equipment and material age areas with exposed soils have a entering the excavated cell or into	They shall be sound, hea shall be free of disease a root systems.  2. Upon Contract award, address of all source nurs	al of their species or variety and shall have a normal habit of growth. althy, vigorous, well branched, and densely foliated when in leaf. They and insect pests, eggs or larvae. They shall have healthy, well developed the CONTRACTOR shall provide written indication of the name and series from which plant stock is supplied. We clearly marked labels stating botanical and common plant name and		
Α	4 ) Deliver sample materials onsite for SWWD prior approval. Prior to begin material quantities shall be onsite to complete the installation and stabilized.		Plant Care and Handling:  4 Container Plants shall be		Α	
	<ol> <li>Care must be taken to avoid contamination of engineered soils with sedin after installation. Materials must be segregated.</li> </ol>	ment, in-situ or topsoil during and	<ol> <li>Container Plants shall be adequately protected at all times from sun, drying winds and frost.</li> <li>All plants which cannot be planted on the day of delivery shall be placed on unpaved ground (in shade, if possible) and shall have their root zones completely covered with continuously moist</li> </ol>			
	6 ) Installation with dry soil conditions is critical to prevent smearing and conperiods of dry weather. Do not work if soil conditions are wet. Excaval stabilization of perimeter slopes with must be completed before the next	tion, soil placement and rapid	soil, mulch or other acce 6. Handle plants with extre			
	7 ) Do not leave infiltration areas and/or perimeter slopes exposed overnight precipitation damages at the end of every work day. In the event of rain away from the work area and temporarily cover of all exposed soils with sheeting.	n, take action to divert stormwater	cracked or broken ball of	f earth shall not be used. Potted plants shall be tight in their container. ed from wind and direct sunlight during transport.		
_	8 ) SWWD field observation of excavation and soil placement is required. No backhoe with tooth bucket for cell excavation to avoid compacting or sme steer for excavation within the cell). Use tooth bucket to scarify (rip) under compaction. Gently mix the first lift of engineered soils with the loosened stratification and promote permeability. Use excavator bucket to loosely steer to place or spread materials within the cell). Leveling and final grad completed by hand.	earing of soils. (Do not use skid erlying soils 9" deep to remove d underlying soils to avoid place materials. (Do not use skid	<ul><li>8. Planting pits shall be ex chart shown in the Plans</li><li>9. Excess soil from crown of</li><li>10. Plants shall be set in</li></ul>	cavated with vertical side slopes and according to the hole dimension (Exhibit B, sheet 6) f plants root ball shall be removed to reveal proper planting depth. center of pits, plumb and straight, and at such a level that (after if the plant will be equal to or one (1) inch higher than the surrounding		
	9 ) The sand / compost mixture shall be Minnesota Stormwater Manual 4.1.2 Modified to be a well-blended mixture of 75% ASTM C-33 Coarse Washed MnDot 3890 Grade 2 Leaf Litter Compost AND/OR a mixture of MnDot 3 and Sphagnum Peat mix meeting phosphorus index requirements descri	ed Sand (MnDot 3126) and 25% 3890 Grade 2 Leaf Litter Compost	cautious not to over-cor parts of the plant and ha 12. Remove excess soil and a	the roots or balls shall be hand tamped and watered while being mpact. Watering-in of the plants means water has reached all rooting as saturated a 6" diameter surrounding the rootball.  any debris from site and dispose of properly.		
The material supplier shall provide documentation that the compost/compost peat mix has been sampled and tested as required by the Seal of Testing Assurance (STA) Program of the United States Composting Council (USCC); provide a soil mixture with a phosphorus index of between 10 and 30 millegrams per kilogram (using Mehlich-3 or equivalent test); and provide a gradation sieve analysis for the washed sand. Prior to placement, the SWWD will field test the saturated hydraulic conductivity (Ksat) of the sand / compost/compost peat mixture. Acceptable Ksat values must be at least 20 inches per hour or greater.		) inch layer of wood mulch (unless otherwise noted in the Plans). The				
	THE ENGINEERED SOIL SHALL NOT CONTAIN ANY TOPSOIL OR FI		DESIGNED BY AJS DRAWN BY	RAINGARDEN AND PLANTING SPECIFICATIONS		
	<ol> <li>Perforated under-drains shall be slotted PVC with circular knit sock. (Mn woven fabric shall NOT be used.)</li> </ol>	nDot 3733 Type I sewn seam non-	AJS CHECKED BY SWWD	TITLE		
	11 ) Notify the SWWD prior to placing any mulch or installing any plantings. elevations, soil compaction and permeability. Note: Depending on condition removal by hand may be needed prior to placing mulch and/or after plant	itions observed, compaction	APPROVED BY SWWD OTHER APPROVALS	SIZE CAGE CODE DRAWING NOWIBER		
	12 ) Keep bioretention systems off-line by restricting stormwater inflow until vicell and all up gradient areas have been stabilized.	regetation is well established in the	Other Approve CAD FILE NAME File Name	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
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