

Quantity	Code	Scientific Name	Common Name	Size	Condition	Spacing
			Trees - Container			T
102	n/a	Acer rubrum	Red Maple	2 gallon	CONTAINER	1.5M O.C.
120	n/a	Acer saccharum	Sugar Maple	2 gallon	CONTAINER	1.5M O.C.
84	n/a	Betula alleghaniensis	Yellow Birch	2 gallon	CONTAINER	1.5M O.C.
120	n/a	Betula papyrifera	White Birch	2 gallon	CONTAINER	1.5M O.C.
72	n/a	Carya cordiformis	Bitternut hickory	2 gallon	CONTAINER	1.5M O.C.
102	n/a	Populus balsamifera	Balsam Poplar	2 gallon	CONTAINER	1.5M O.C.
72	n/a	Populus tremuloides	Trembling Aspen	2 gallon	CONTAINER	1.5M O.C.
48	n/a	Thuja occidentalis	Eastern White Cedar	2 gallon	CONTAINER	1.5M O.C.
80	n/a	Tilia americana	Basswood	2 gallon	CONTAINER	1.5M O.C.
800	Total Container Trees					
			Shrubs			
68	n/a	Cornus amomum	Silky Dogwood	2 gallon	CONTAINER	1M O.C.
96	n/a	Cornus racemosa	Gray Dogwood	2 gallon	CONTAINER	1M O.C.
228	n/a	Cornus sericea	Red-osier Dogwood	2 gallon	CONTAINER	1M O.C.
160	n/a	Rhus typhina	Staghorn Sumac	2 gallon	CONTAINER	1M O.C.
56	n/a	Ribes americanum	Wild Black Currant	2 gallon	CONTAINER	1M O.C.
160	n/a	Rubus occidentalis	Black Raspberry	2 gallon	CONTAINER	1M O.C.
96	n/a	Rubus odoratus	Purple Flowering Raspberry	2 gallon	CONTAINER	1M O.C.
68	n/a	Salix discolor	Pussy Willow	2 gallon	CONTAINER	1M O.C.
56	n/a	Sambucus canadensis	Common Elderberry	2 gallon	CONTAINER	1M O.C.
96	n/a	Sambucus racemosa	Red Elderberry	2 gallon	CONTAINER	1M O.C.
56	n/a	Viburnum opulus var. americanum	American Highbush Cranberry	2 gallon	CONTAINER	1M O.C.
1140	Total Shr	rubs				•
			Herbaceous			
66	n/a	Elodea canadensis	Broad Waterweed	submergent	PLUG	0.5M O.C.
66	n/a	Nuphar variegata	Pond-lily	floating-leaf	CONTANER	0.5M O.C.
66	n/a	Nymphaea odorata	Fragrant Water-lily	floating-leaf	CONTAINER	0.5M O.C.
66	n/a	Potamogeton natans	Floating Pondweed	floating-leaf	PLUG	0.5M O.C.
66	n/a	Stuckenia pectinata	Sago Pondweed	submergent	PLUG	0.5M O.C.
330	Total Herbaceous					

TABLE 2

SWM PLANTING ZONES				
ZONE	DESCRIPTION	INSTRUCTION		
	Water depths from 2 m to 0.5 m.	Module planting, excluding forebay - see Detail 9 on sheet D3.		
	Water depths from 0.5 m to the permanent pool level.	Apply Standard OBL Wetland Native Seed Mixture 8185 from OSC or approved equivalent at a rate of 22-25 kg / ha - See OPSS.MUNI 804 for seeding instruction.		
3	Between the permanent pool level and the 5-year storm level, including the extended detention level.	Module planting - See Detail 7 on Sheet D2. Apply Zone 3 seeding mix - See OPSS.MUNI 804 for seeding instruction with special provision for seedmix provided in Table 8.		
4	All areas above the 5-year storm level.	Module planting - See Detail 8 on Sheet D2. Apply Zone 4 seeding mix - See OPSS.MUNI 804 for seeding instruction with special provision for seedmix provided in Table 9.		

		ZONE 1		
TOTAL				
MODULES	QTY/MODULE	Botanical Name	Common Name	SPACING
			·	·
	3	Elodea canadensis	Broad Waterweed	0.50M O.C.
	3	Stuckenia pectinata	Sago Pondweed	0.50M O.C.
22	3	Nuphar variegata	Pond-lily	0.50M O.C.
	3	Nymphaea odorata	Fragrant Water-lily	0.50M O.C.
	3	Potamogeton natans	Floating Pondweed	0.50M O.C.
TOTAL PLANTS PER MODULE	15			

TABLE 4

		ZONE 3		
TOTAL MODULES	QTY/MODULE	Botanical Name	Common Name	SPACIN
	3	Betula alleghaniensis	Yellow Birch	1.5M O.
	3	Thuja occidentalis	Eastern White Cedar	1.5M O.
28	2	Ribes americanum	American Black Currant	1M O.0
	2	Sambucus canadensis	Common Elderberry	1M O.0
	2	Viburnum opulus var. americanum	American Highbush Cranberry	1M O.
TOTAL PLANTS PER MODULE	12			·
	3	Acer rubrum	Red Maple	1.5M O
	3	Populus balsamifera	Balsam Poplar	1.5M O
35	2	Cornus amomum	Silky Dogwood	1M O.
	2	Cornus sericea	Red Osier Dogwood	1M O.
	2	Salix discolor	Pussy Willow	1M O.
TOTAL PLANTS PER MODULE	12			

TABLE 5

TOTAL				
MODULES	QTY/MODULE	Botanical Name	Common Name	SPACING
		T		
	3	Acer saccharum	Sugar Maple	1.5M O.C
	3	Betula papyrifera	White Birch	1.5M O.C
40	2	Tilia americana	Basswood	1.5M O.C
40	4	Cornus sericea	Red Osier Dogwood	1M O.C.
	4	Rhus typhina	Staghorn Sumac	1M O.C.
	4	Rubus occidentalis	Black Raspberry	1M O.C.
			- · - · · · · · - - · · · /	1 111 0.0.
OTAL PLANTS ER MODULE	20		,	11110101
	20	Carya cordiformis	Bitternut hickory	
		Carya cordiformis Populus tremuloides		1.5M O.C
ER MODULE	3		Bitternut hickory	1.5M O.C 1.5M O.C
	3 3	Populus tremuloides	Bitternut hickory Trembling Aspen	1.5M O.C 1.5M O.C
ER MODULE	3 3 2	Populus tremuloides Thuja occidentalis	Bitternut hickory Trembling Aspen Eastern White Cedar	1.5M O.C 1.5M O.C 1.5M O.C

TABLE 6

MODULE QUANTITIES - TOTAL				
	22			
ZONE 3	62			
ZONE 4	64			

- LANDSCAPE ARCHITECT. CONTRACTOR IS NOT TO PROCEED IN UNCERTAINTY.
- 3. CONTRACTOR SHALL VISIT THE SITE TO CONFIRM ALL SITE CONDITIONS PRIOR TO SUBMITTING BIDS. DISCREPANCIES TO BE REPORTED TO THE LANDSCAPE ARCHITECT FOR CLARIFICATION.
- 4. UPON COMPLETION EACH DAY, REMOVE ALL DEBRIS, GARBAGE AND SURPLUS MATERIAL FROM THE SITE. KEEP THE SITE CLEAN AND USABLE AT ALL
- 5. CONTRACTOR SHALL SUPPLY ALL PLANTS AND MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE WORK SHOWN ON SHEET L1..
- 6. PLANT MATERIALS COLLECTED FROM WILD SOURCES WILL NOT BE ACCEPTED. THE CONTRACT ADMINISTRATOR MAY REQUIRE THAT SUPPLIER'S INVOICES FOR PLANT MATERIALS BE SUBMITTED FOR INSPECTION.
- 7. ANY SUBSTITUTION OF PLANT MATERIAL WILL REQUIRE THE WRITTEN APPROVAL OF LANDSCAPE ARCHITECT.

ZONE 3 SEEDING MIX

Canada Anemone

Devil's Beggarticks Fowl Bluegrass

Fox Sedge

Dudley's Rush

Torrey's Rush

Panicled Aster

Blue Vervain

Virginia Wild Rye

Dark-green Bulrush

New England Aster

TOTAL 1

Lamp Rush

Nodding Bur Marigold

Spotted Joe-pye Weed

Grass-leaved Goldenrod

TABLE 7

Botanical Name

Bidens cernua Bidens frondosa

Poa palustris

Carex vulpinoidea

Juncus dudleyi

Elymus virginicus

Scirpus atrovirens

Verbena hastata

Euthamia graminifolia

Juncus effusus ssp. solutus Juncus torreyi

Symphyotrichum lanceolatum

Symphyotrichum novae-angliae

NOTE: To be applied at a rate of 22-25kg/ha (20-23lbs/acre).

Eupatorium maculatum ssp. maculatum

Anemone canadensis

- 8. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REFUSE ACCEPTANCE OF ANY PLANT DISPLAYING POOR GROWTH HABITS, INJURY OR DISEASE. ANY PLANT MATERIAL THAT IS REJECTED BY THE LANDSCAPE ARCHITECT WILL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
- 2 DEANTING SHALL TAKE DEACE WITHIN 7 DAYS OF COMPLETION OF FINAL GRADING. IF PLANTING CANNOT TAKE PLACE IN THIS PERIOD, A TEMPORARY COVER CROP (TO BE APPROVED BY LANDSCAPE ARCHITECT) SHALL BE SEEDED.
- 3. ALL PLANTS SHALL BE PLANTED IN ACCORDANCE WITH THE APPROPRIATE PLANTING DETAILS ON THE DRAWINGS AND WRITTEN SPECIFICATIONS. 4. ALL PLANTS ARE TO BE PLANTED IN 600MM APPROVED TOP SOIL,

SCREENED AND FREE FROM WEEDS, SUBSOIL, ROOTS, STONES, LUMPS OF

- CLAY AND TOXIC MATERIAL AND IN ACCORDANCE WITH MUNICIPAL GUIDELINES FOR SCREENED TOPSOIL COMPOSITION. 5. PLANT SO THAT NURSERY SOIL LINE MATCHES FINISHED GRADE AFTER

7. GENTLY TAMP TOPSOIL WHEN BACKFILLING TO REMOVE AIR POCKETS.

- 8. BUILD A SOIL SAUCER AROUND OUT EDGE OF PLANTING HOLE. SAUCER SHALL BE SOAKED WITH WATER AND COVERED WITH MULCH IMMEDIATELY
- FOLLOWING PLANTING. . ALL INDIVIDUAL TREE WHIPS AND SHRUBS ARE TO BE MULCHED USING
- SHREDDED BARK MULCH AS PER DETAILS AND PLANTING SPECIFICATIONS. 10. ALL PLANTS TO BE TREATED WITH RODENT REPELLENT AS PER SPECIFICATIONS.
- 11. INSTALL PLASTIC PERFORATED SPIRALED STRIP TRUNK PROTECTION ON ALL 6. SHOULD PLANTS ALREADY BE INSTALLED PRIOR TO SEEDING, AN

- 13. ALL PLANTS ARE TO RECEIVE MAINTENANCE IN ACCORDANCE WITH WRITTEN SPECIFICATIONS THROUGHOUT THE WARRANTY PERIOD.
- 14. FOLLOW-UP REPLACEMENT PLANTINGS WILL BE REQUIRED FOR ALL TREES AND/OR SHRUBS THAT DO NOT SURVIVE.

NOTE 3: SEEDING

TABLE 9

ZONE 4

TABLE 10

Botanical Name

Avena sativa

Elymus canadensis

Agrostis stolonifera

Carex granularis

SEEDING AREA - TOTAL (m2)

TEMPORARY STABILIZATION SEEDING MIX

Common Name

Canada Wild Rye

Creeping Bent Grass

Meadow/Open Field Sedge

Annual Oats

* To be used to stabilize short term exposed or disturbed soils such as interim condition

stormwater management facilities, ditch lines, swales, and fill/soil piles.

- 1. ALL AREAS OF DISTURBANCE WITHIN SWM AREA TO BE SEEDED. THESE AREAS, ACCORDING TO THE LIMITS OF GRADING, ARE: **24120**m²
- 2. AREA FOR PAYMENT SHALL BE SURVEYED ON SITE BY THE CONTRACTOR AND APPROVED BY LANDSCAPE ARCHITECT.
- 3. CONTRACTOR SHALL FOLLOW OPSS.MUNI 804: CONSTRUCTION SPECIFICATION FOR SEED AND COVER (METRIC VERSION) WITH SPECIAL PROVISION FOR SEED MIX PROVIDED FOR A. COVER CROP, B. ZONE 2 SEED MIX, C. ZONE 3 SEED MIX, AND D. ZONE 4 SEED MIX (SHOWN ON THIS SHEET). ANY SUBSTITUTION OF SEED MATERIAL WILL REQUIRE THE WRITTEN APPROVAL OF LANDSCAPE ARCHITECT.
- 4. ALL SEEDING TO BE COMPLETED BEFORE INUNDATION OF SWM FACILITY.
- 5. ALL HYDROSEEDING TO BE COMPLETED PRIOR TO PROCEEDING WITH THE PLANTING WORKS.
- ALTERNATIVE SEEDING METHOD TO HYDROSEDING MUST BE USED. CONFIRM

SWM PLANTING PLAN - SOUTH

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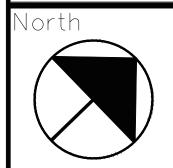
Revisions

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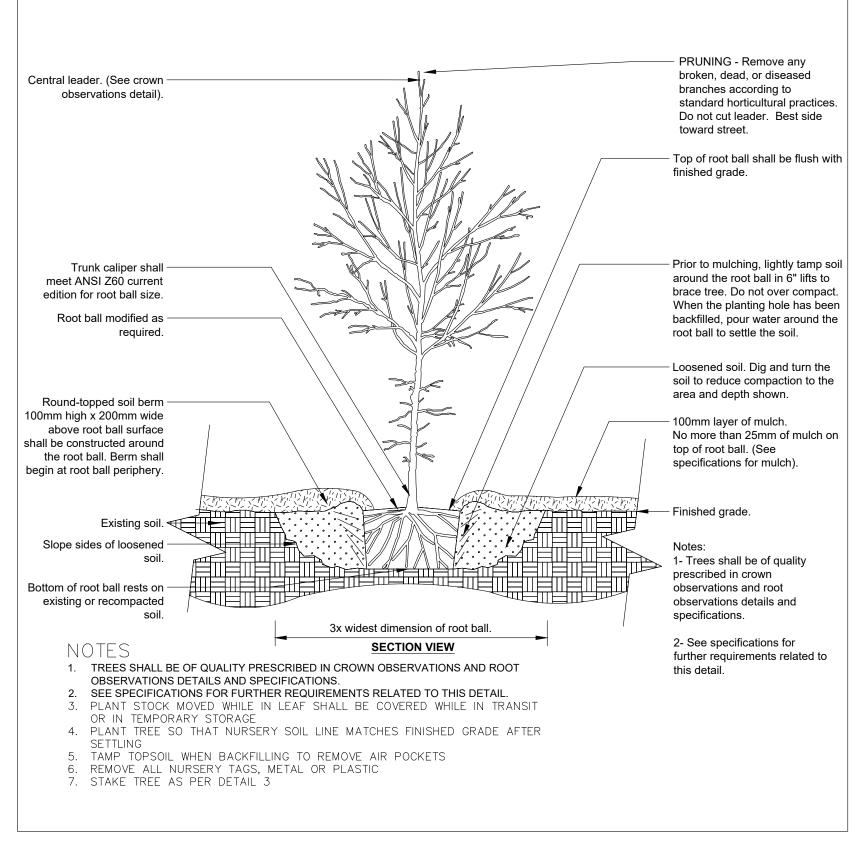
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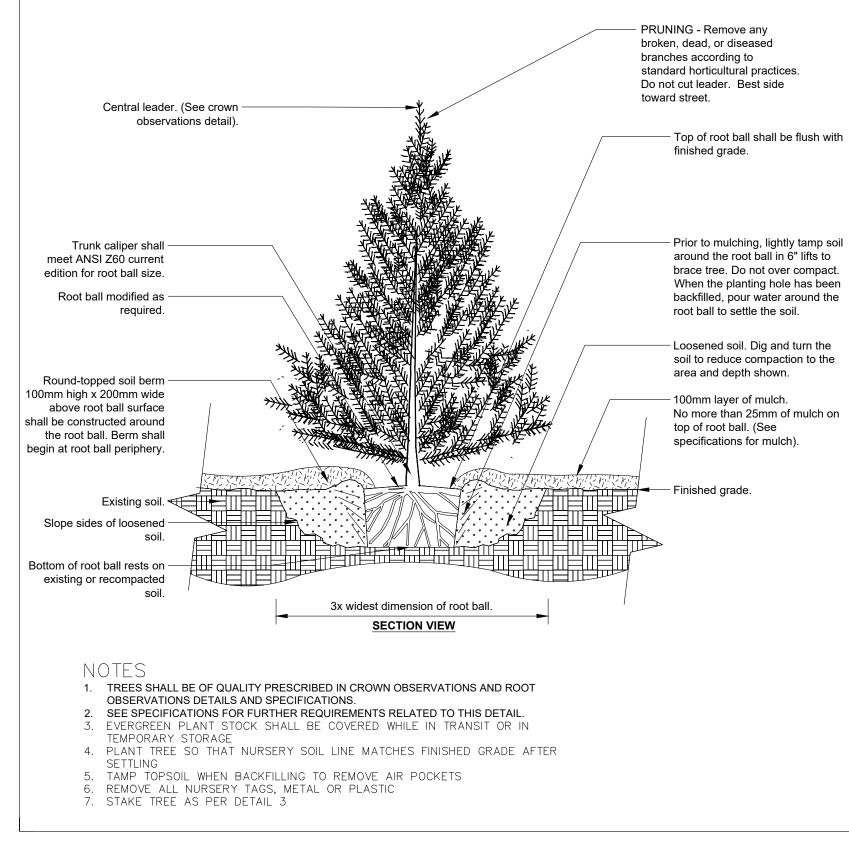
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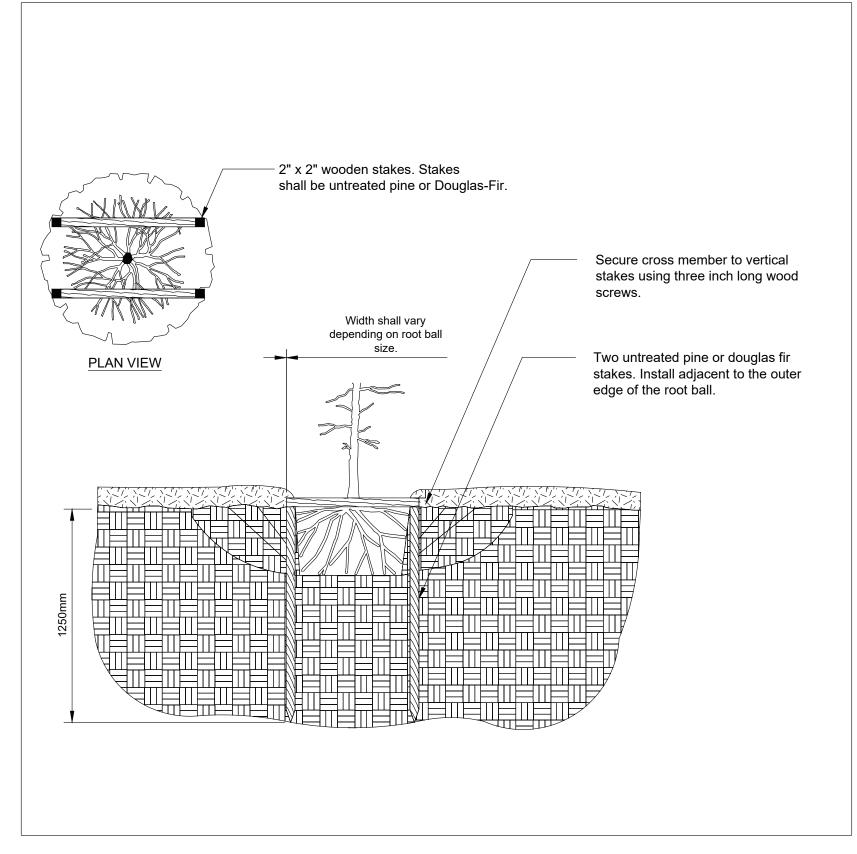
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TABLE 8

ZONE 4 SEEDING MIX				
Botanical Name	Common Name	QTY (
Solidago altissima var. altissima	Late Goldenrod	5%		
Solidago canadensis var. canadensis	Canada Goldenrod	2%		
Aster cordifolius	Heart Leaved Aster	2%		
Asclepias syriaca	Common Milkweed	5%		
Rudbeckia hirta	Black-eyed Susan	10%		
Symphyotrichum lanceolatum	Panicled Aster	1%		
Symphyotrichum novae-angliae	New England Aster	1%		
Anemone canadensis	Canada Anemone	2%		
Carex graminifolia	Meadow/Open Field Sedge	10%		
Juncus dudleyi	Dudley's Rush	10%		
Elymus riparius	Riverbank Wild Rye	30%		
Monarda fistulosa	Virgin's Bower	2%		
Oenethera biennis	Evening Primrose	15%		
Euthamia graminifolia	Grass-leaved Goldenrod	5%		
	TOTAL	100%		
NOTE: Dry seed mix to be applied at a rate of 22-25kg/ha (20-23lbs/acre).				
, , , , , ,				



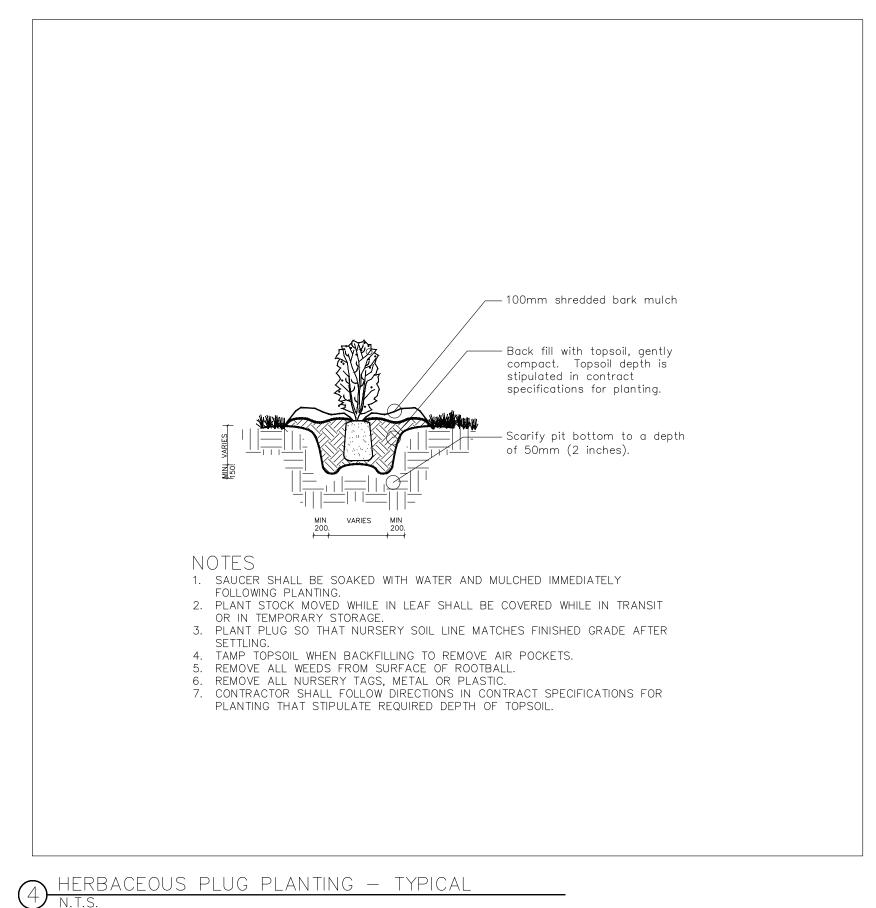


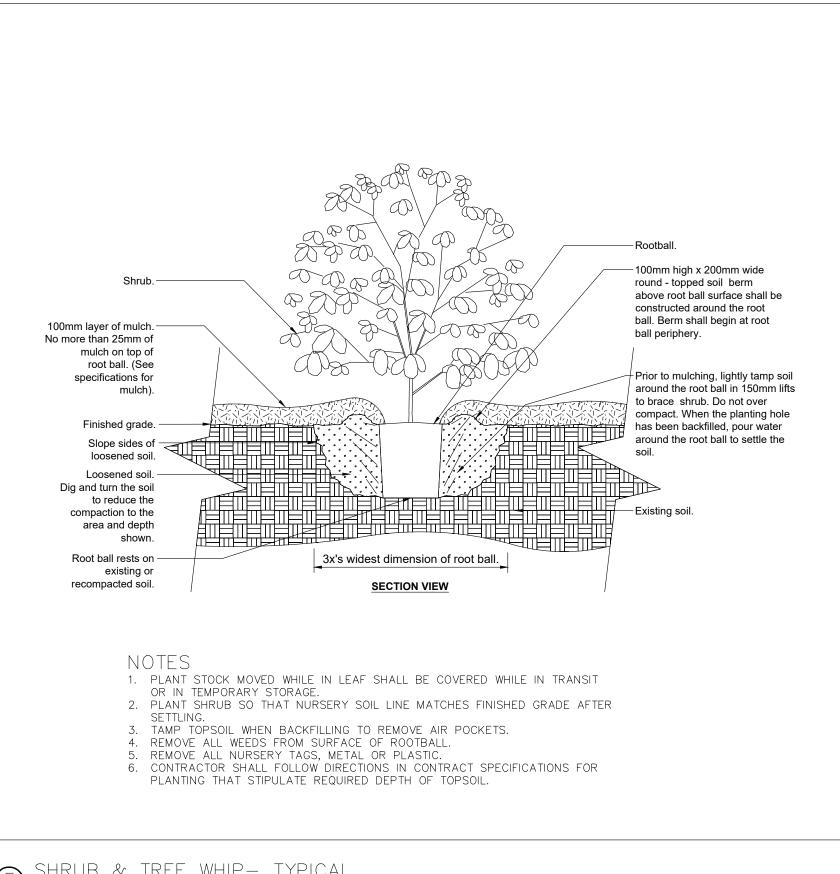


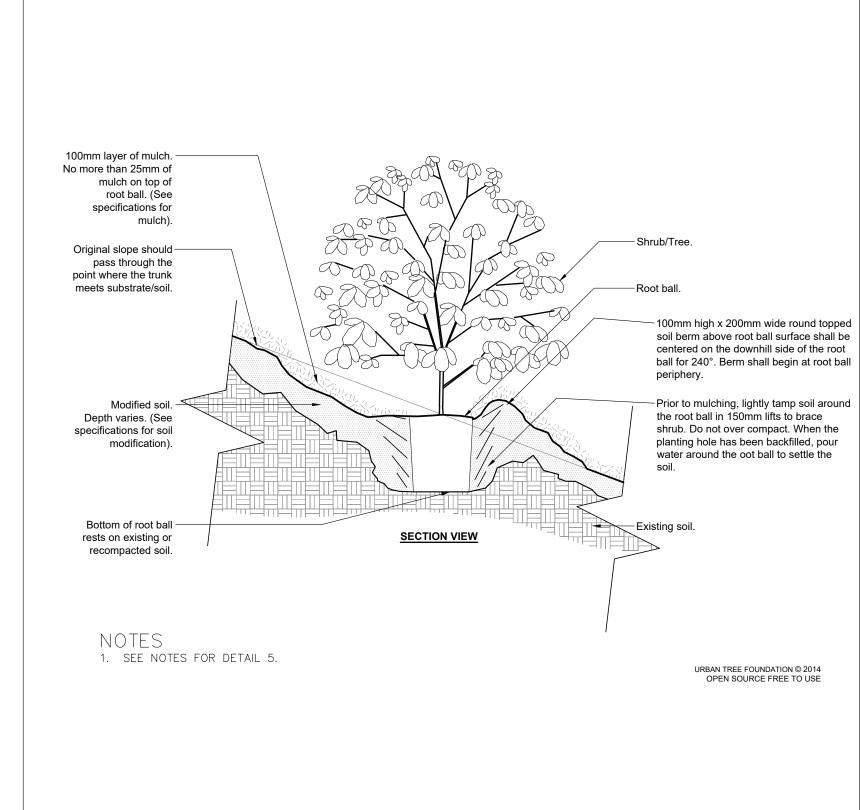
DECIDUOUS TREE - TYPICAL

CONIFEROUS TREE - TYPICAL

TREE STAKING - STAPLE
N.T.S.







6 SHRUB & TREE WHIP ON SLOPE 5% (20:1) TO 50% (2:1)

ball for 240°. Berm shall begin at root ball

SHRUB & TREE WHIP— TYPICAL

N.T.S.

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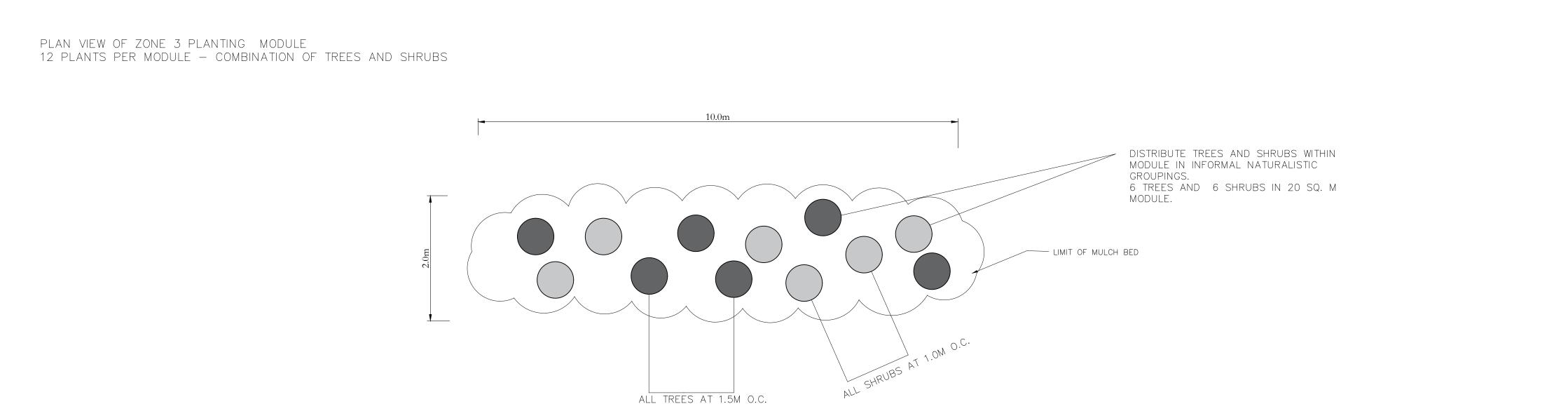
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Revisions

Description

PLANTING DETAILS



- 1. THE ACTUAL PHYSICAL LOCATION OF EACH PLANT WILL DEPEND UPON SITE CONDITIONS AT TIME OF PLANTING. ACTUAL SITE CONDITIONS MAY REQUIRE MODIFICATION TO THE PLANT MATERIAL LOCATIONS AS SHOWN. THE CONTRACTOR SHOULD RESPECT THE PLANT GROUPINGS, AND SPACING AND ADHERE TO THE DESIGN INTENT WHEN LAYING OUT THE PLANT
- RESPECT THE PLANT GROUPINGS, AND SPACING AND ADHERE TO THE DESIGN INTENT WHEN LAYING OUT THE PLAN MATERIAL LOCATIONS.

 2. ALL PLANTING MODULES SHALL CONSIST OF SHRUBS PLACED 1.0 M O.C. AND TREES PLACED AT 1.5 M O.C.

 3. REFER TO TABLE 4 ON SHEET L1 FOR PLANT MATERIAL DESCRIPTIONS.

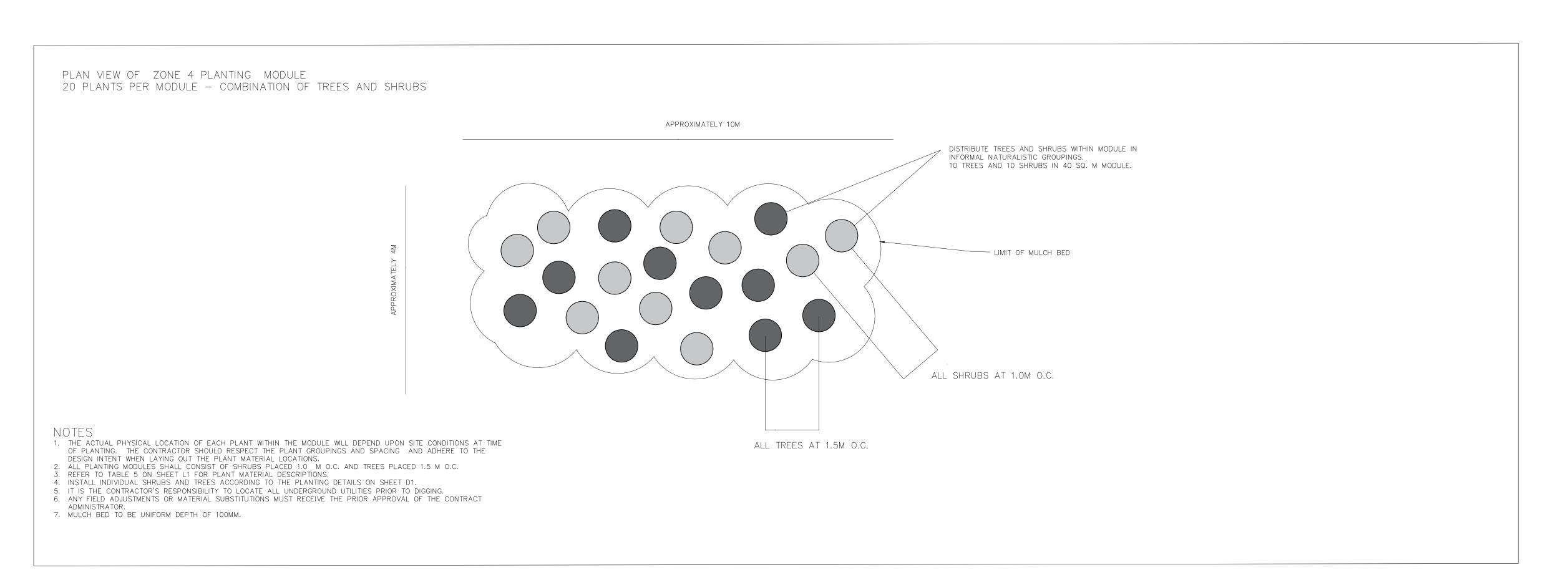
 4. INSTALL INDIVIDUAL SHRUBS AND TREES ACCORDING TO THE PLANTING DETAILS ON SHEET D1.

 5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO DIGGING.

 6. ANY FIELD ADJUSTMENTS OR MATERIAL SUBSTITUTIONS MUST RECEIVE THE PRIOR APPROVAL OF THE CONTRACT

- ADMINISTRATOR.
- 7. MULCH BED TO BE UNIFORM DEPTH OF 100MM.

ZONE 3 MODULE PLANTING LAYOUT



/YYY/MM/DD XX Description

Revisions

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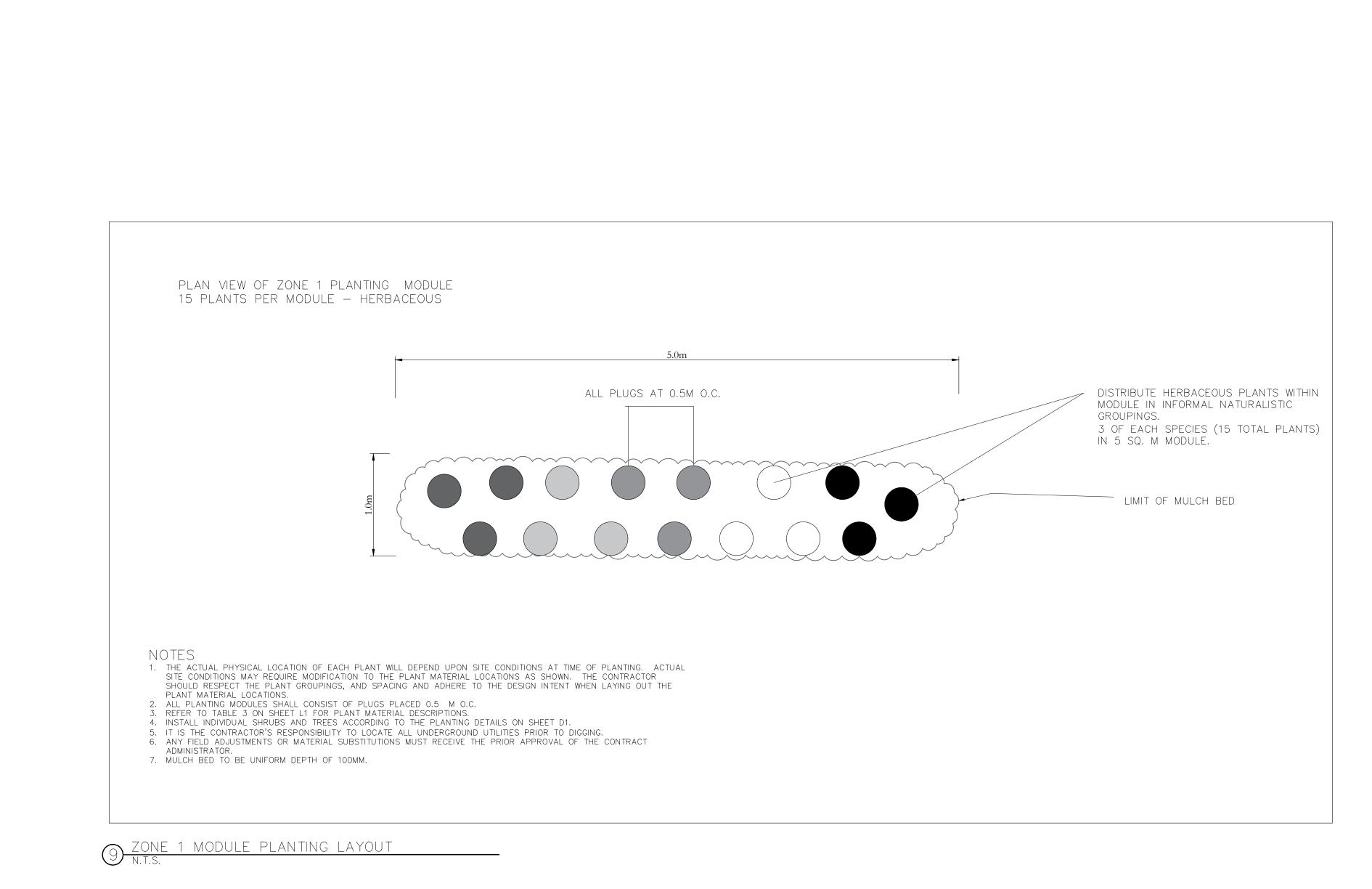


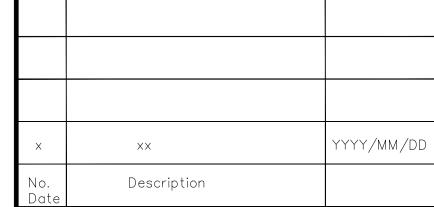
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PLANTING DETAILS

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