


Deb Hartley
112 5th St. W
Carver, MN 55315

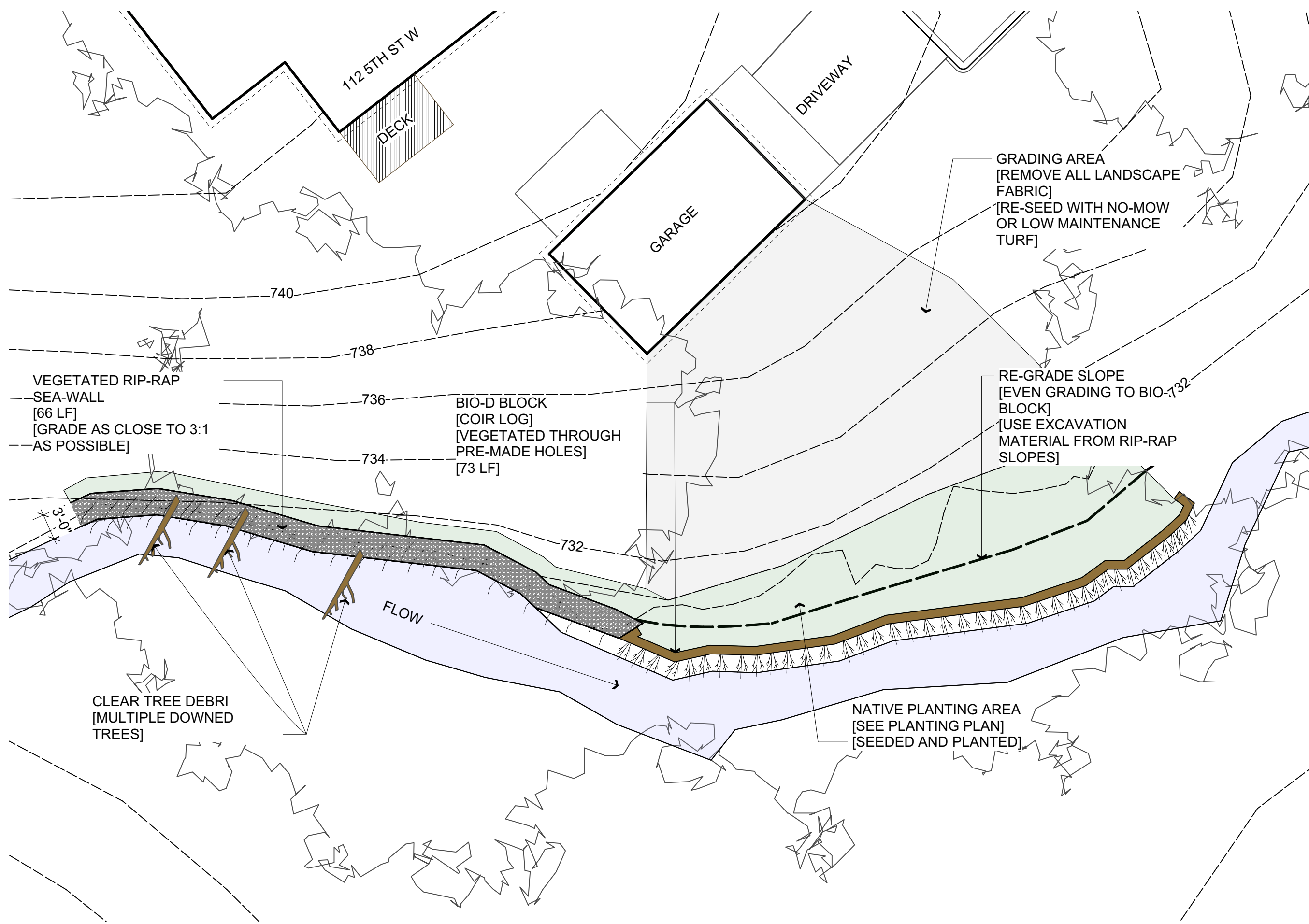
Provided By:

CO.CARVER.MN.US/SWCD

DESIGNER: SETH RISTOW
DATE: 11/08/18
REVISION:
REVISION:

NOTES:
- CALL GOPHER 1 PRIOR TO DIGGING
- KILL EXISTING NON-NATIVE VEGETATION AT LEAST 1 WEEK PRIOR TO PLANTING
- CONTACT SETH RISTOW WITH QUESTIONS (952) 466-5264
- USE COIR LOGS AS NEEDED
- PLANTS NEED TO BE WATERED REGULARLY DURING FIRST YEAR

SCALE: 3/32"=1' 



112 5TH ST W

DECK

DRIVEWAY

GARAGE

GRADING AREA
[REMOVE ALL LANDSCAPE FABRIC]
[RE-SEED WITH NO-MOW OR LOW MAINTENANCE TURF]

740

738

736

734

BIO-D BLOCK
[COIR LOG]
[VEGETATED THROUGH PRE-MADE HOLES]
[73 LF]

732

RE-GRADE SLOPE
[EVEN GRADING TO BIO-D BLOCK]
[USE EXCAVATION MATERIAL FROM RIP-RAP SLOPES]

VEGETATED RIP-RAP
SEA-WALL
[66 LF]
[GRADE AS CLOSE TO 3:1 AS POSSIBLE]

FLOW

CLEAR TREE DEBRI
[MULTIPLE DOWNED TREES]

NATIVE PLANTING AREA
[SEE PLANTING PLAN]
[SEEDED AND PLANTED]

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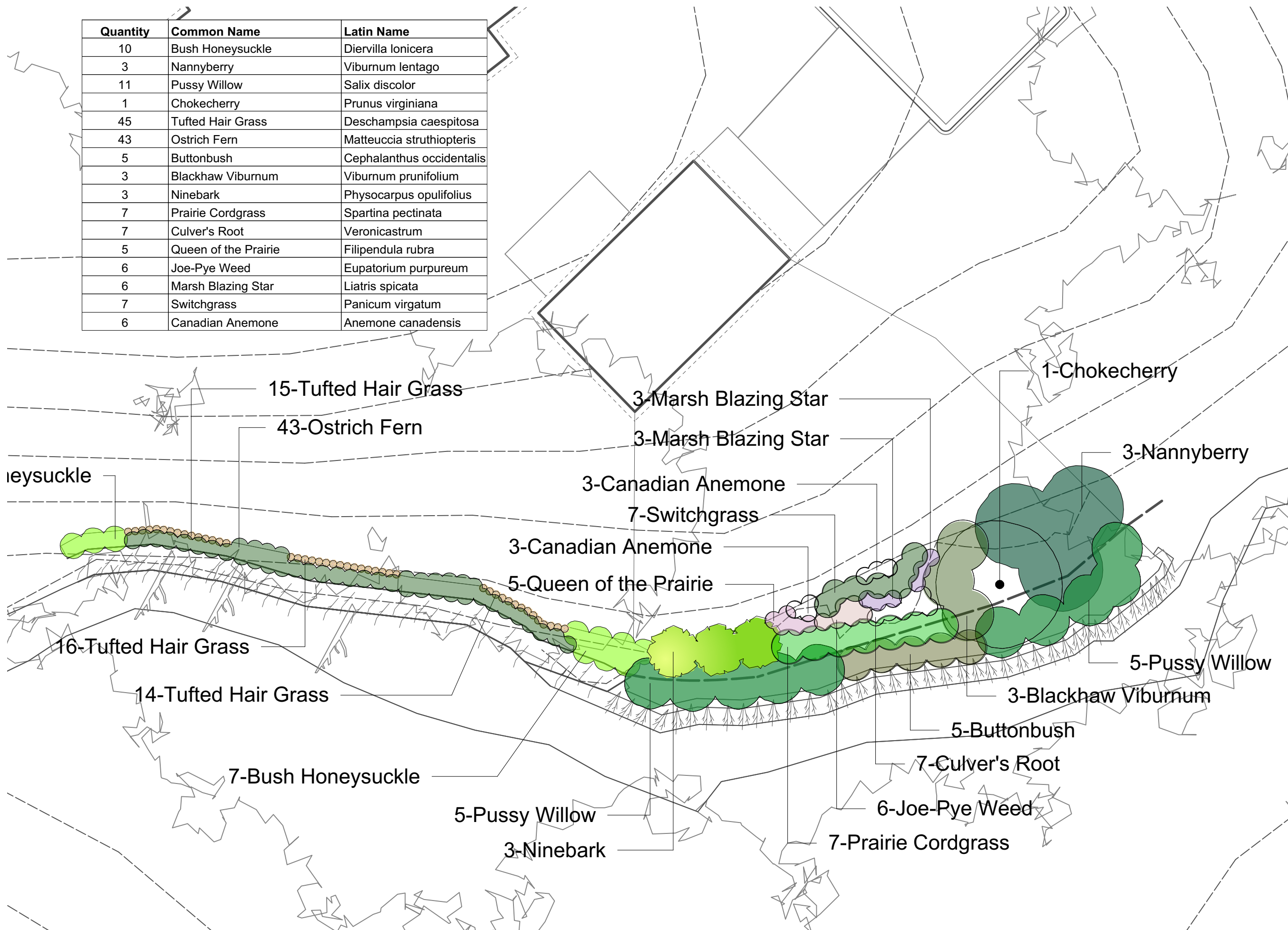
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Quantity	Common Name	Latin Name
10	Bush Honeysuckle	Diervilla lonicera
3	Nannyberry	Viburnum lentago
11	Pussy Willow	Salix discolor
1	Chokecherry	Prunus virginiana
45	Tufted Hair Grass	Deschampsia caespitosa
43	Ostrich Fern	Matteuccia struthiopteris
5	Buttonbush	Cephalanthus occidentalis
3	Blackhaw Viburnum	Viburnum prunifolium
3	Ninebark	Physocarpus opulifolius
7	Prairie Cordgrass	Spartina pectinata
7	Culver's Root	Veronicastrum
5	Queen of the Prairie	Filipendula rubra
6	Joe-Pye Weed	Eupatorium purpureum
6	Marsh Blazing Star	Liatris spicata
7	Switchgrass	Panicum virgatum
6	Canadian Anemone	Anemone canadensis



CARVER SWCD MATERIAL & COST ESTIMATE

Hartley LF: 140
SF: NA
 Streambank Stabilization Date: 21-Nov-18

Materials: Streambank Stabilization

Item	Qty	Unit	Unit Cost	Amount	Potential Source
Twice-Shredded Hardwood Mulch (3" depth)	8.0	cu-yd	\$ 30.00	\$ 240.00	Hedberg, Frador, Local Supplier
Non-Woven Geotextile (Geotex 401, Mirfani 140N, or equal)	200	sq-ft	\$ 0.07	\$ 14.00	Brock White, (651) 647-0950
C125BN (6.5' x 108.5')	1,390	sq-ft	\$ 0.22	\$ 305.80	Brock White, (651) 647-0950
Bio D Block 12 (10')	8	each	\$ 126.00	\$ 1,008.00	Rolanka
Wood Stakes (2" x 4" x 48" - hardwood)	40	each	\$ 1.00	\$ 40.00	Brock White, (651) 647-0950
Aggregate: Buff Limestone (18"-24")	15.0	Tons	\$ 30.00	\$ 450.00	Hedberg, Frador, Local Supplier
Materials Subtotal				\$ 2,057.80	

Plants: Streambank Stabilization

Item	Qty	Unit	Unit Cost	Amount	Potential Source
Native Plant: Plug	132	each	\$ 2.00	\$ 264.00	Native Plant Supplier
Native Shrub: 1 Gallon	36	each	\$ 15.00	\$ 540.00	Native Plant Supplier
Native Seed (Moist Meadow) 1/4LB	1.00	each	\$ 125.00	\$ 125.00	Native Plant Supplier
No Mow Seed	2.00	lb	\$ 7.00	\$ 14.00	Native Plant Supplier
Plants Subtotal				\$ 943.00	

Labor: Streambank Stabiliza

Mobilization	1.00	job	\$ 250.00	\$ 250.00	Landscape/Excavation Contractor
Deliveries (Mulch, Plants, Rock, Soil, etc)	2	job	\$ 150.00	\$ 300.00	Suppliers/Contractors
Disposal	1.00	job	\$ 500.00	\$ 500.00	Landscape/Excavation Contractor
Grading (<u>Tracked Equipment Only</u> - no wheeled vehicles in excavation area)	5	hrs	\$ 85.00	\$ 425.00	Landscape/Excavation Contractor
Material Installation (4 person crew/ 10hr day)	4.50	job	\$ 2,500.00	\$ 11,250.00	Landscape/Excavation Contractor
Subtotal				\$ 12,725.00	

Project Total: Raingarden #4

Materials Estimate:	\$ 2,057.80
Plants Estimate:	\$ 943.00
Labor Estimate:	\$ 12,725.00
Project Estimate:	\$ 15,725.80
:-10%	\$ 14,153.22
:+10%	\$ 17,298.38

SPRING CREEK [CITY OF CARVER]

404 BROADWAY ST.
CARVER, MN 55315

Provided By:



CO.CARVER.MN.US/SWCD

DESIGNER: SETH RISTOW

DATE: 02/12/19

REVISION:

REVISION:

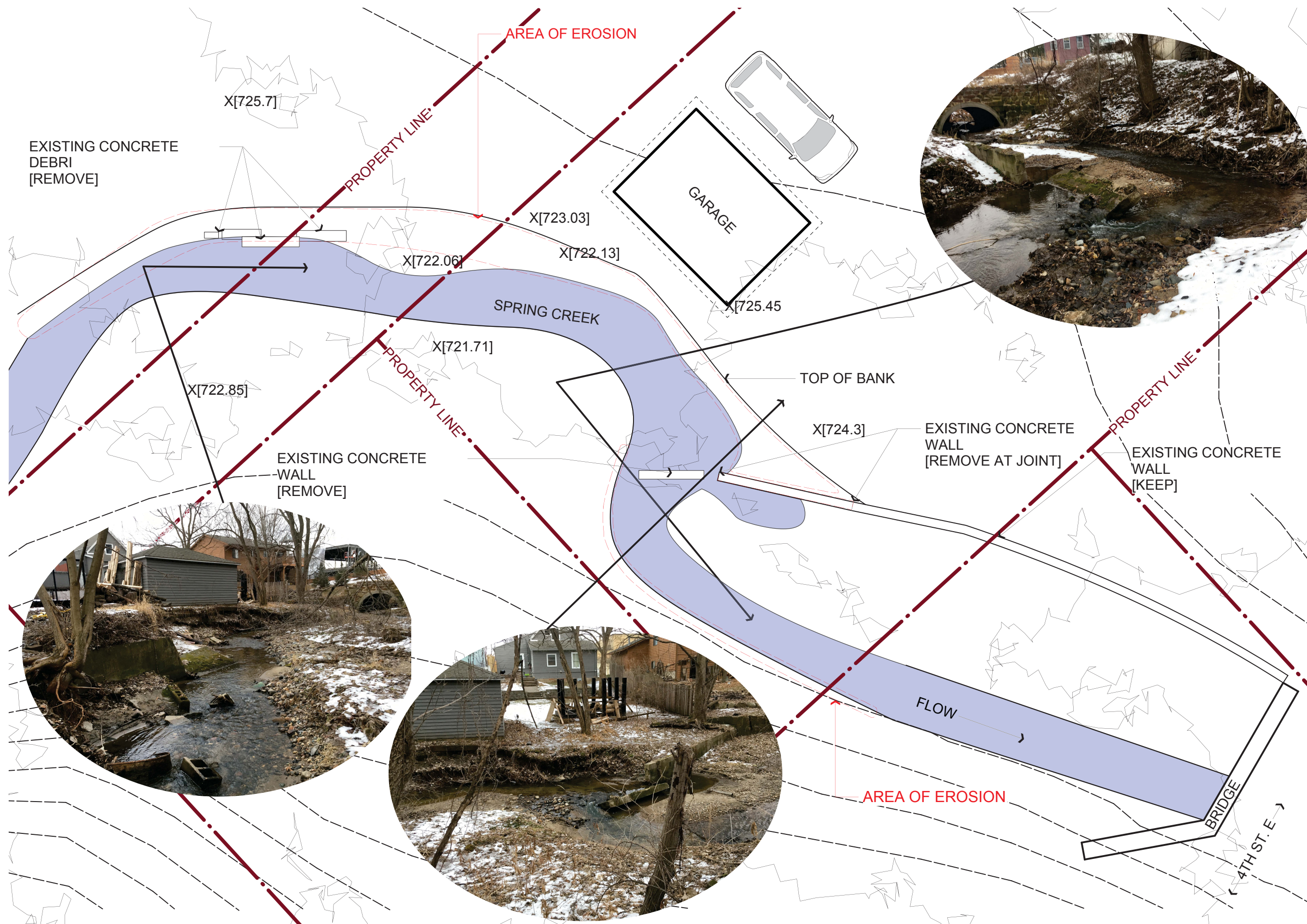
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L 1.0 EXISTING SITE



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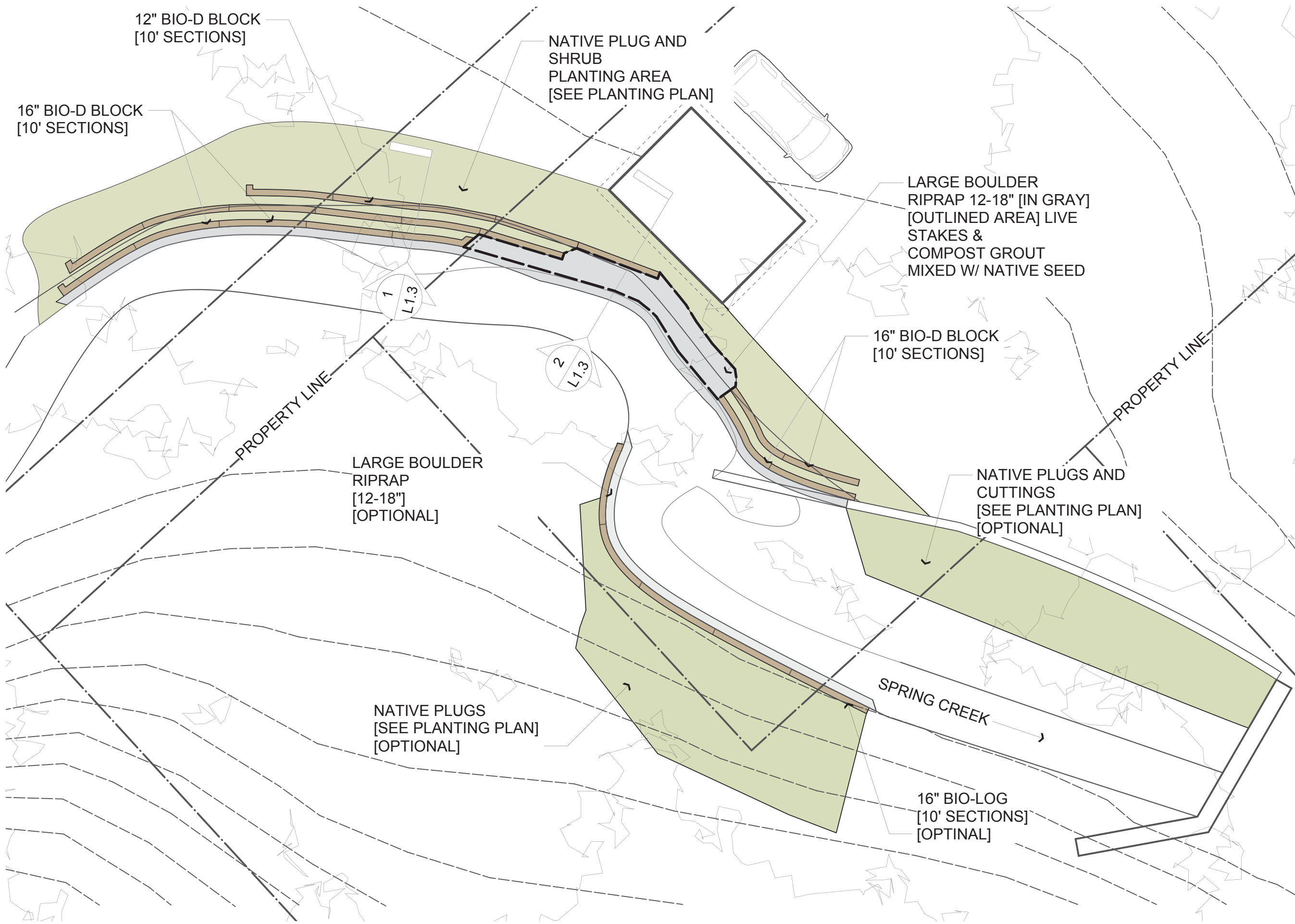
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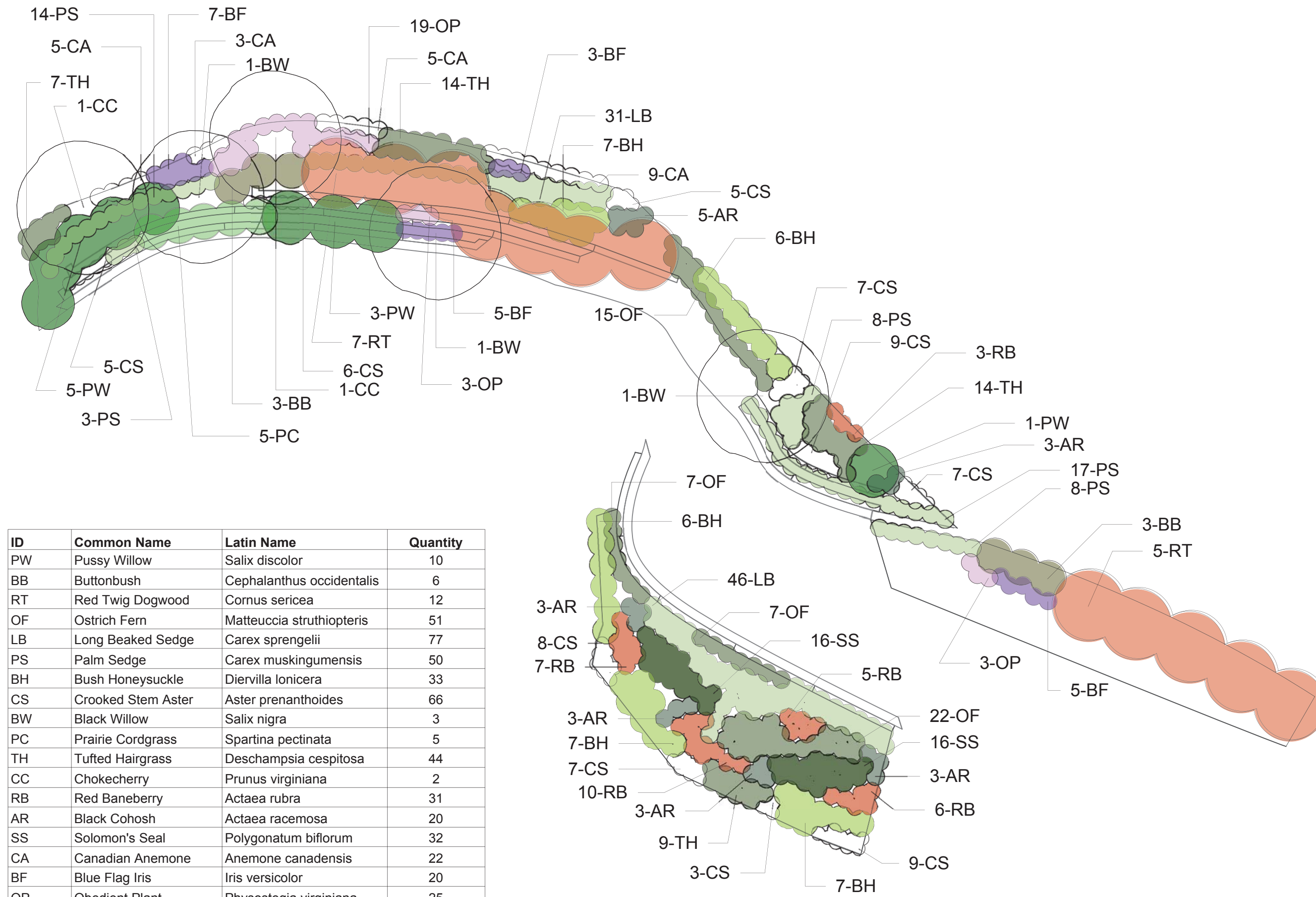
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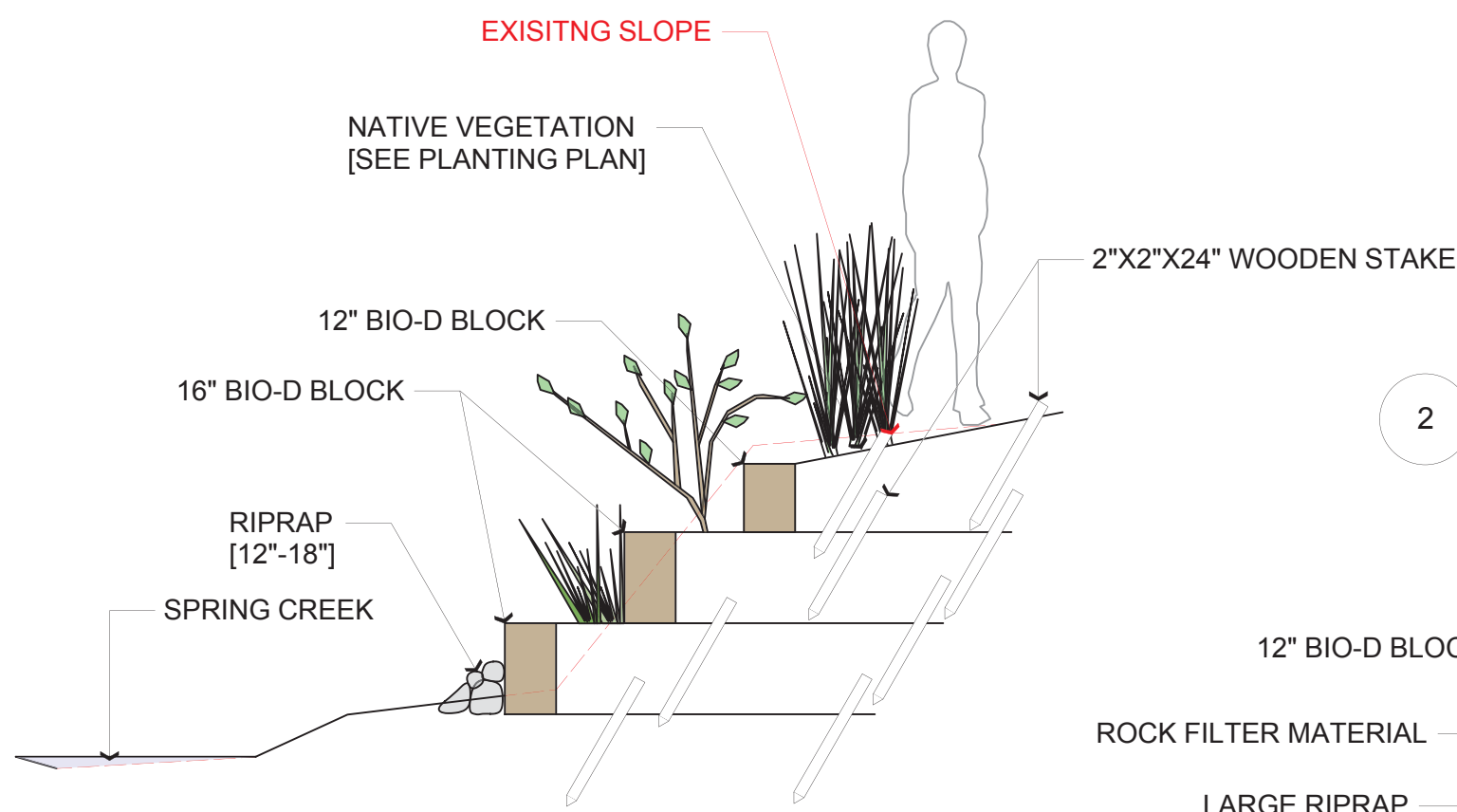
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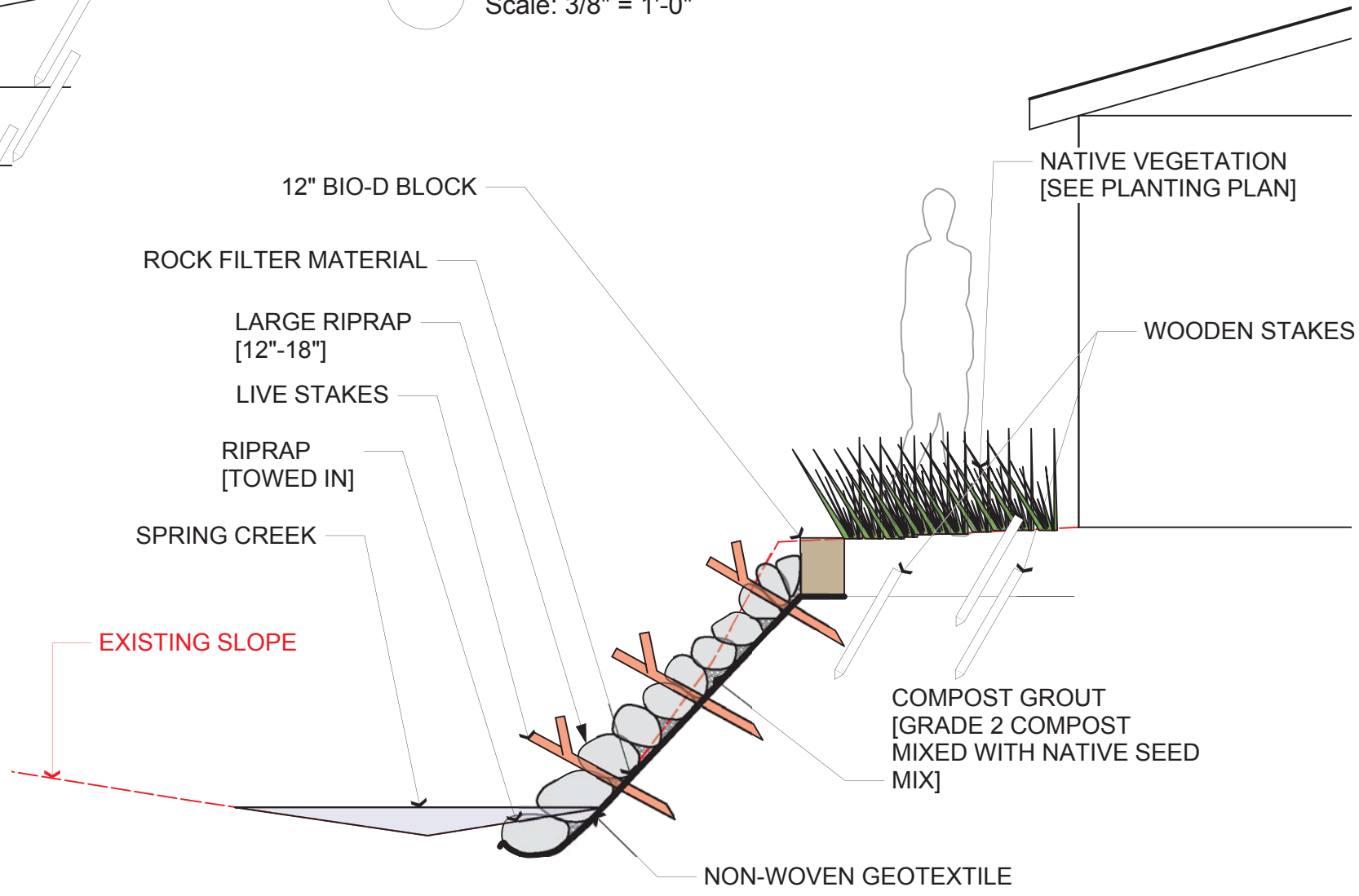


ID	Common Name	Latin Name	Quantity
PW	Pussy Willow	Salix discolor	10
BB	Buttonbush	Cephalanthus occidentalis	6
RT	Red Twig Dogwood	Cornus sericea	12
OF	Ostrich Fern	Matteuccia struthiopteris	51
LB	Long Beaked Sedge	Carex sprengelii	77
PS	Palm Sedge	Carex muskingumensis	50
BH	Bush Honeysuckle	Diervilla lonicera	33
CS	Crooked Stem Aster	Aster prenanthoides	66
BW	Black Willow	Salix nigra	3
PC	Prairie Cordgrass	Spartina pectinata	5
TH	Tufted Hairgrass	Deschampsia cespitosa	44
CC	Chokecherry	Prunus virginiana	2
RB	Red Baneberry	Actaea rubra	31
AR	Black Cohosh	Actaea racemosa	20
SS	Solomon's Seal	Polygonatum biflorum	32
CA	Canadian Anemone	Anemone canadensis	22
BF	Blue Flag Iris	Iris versicolor	20
OP	Obedient Plant	Physostegia virginiana	25

1 SECTION 1
Scale: 3/8" = 1'-0"



2 SECTION 2
Scale: 3/8" = 1'-0"



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SCALE: 3/32"=1'

CARVER SWCD
MATERIAL & COST ESTIMATE

Spring Creek

LF: 185

Streambank Stabilization

Date: 12-Feb-19

Materials: Streambank Stabilization						
Item	Qty	Unit	Unit Cost	Amount	Potential Source	
Twice-Shredded Hardwood Mulch (3" depth)	12.0	cu-yd	\$ 30.00	\$ 360.00	Hedberg, Frador, Local Supplier	
Non-woven Geo-textile	300	sq-ft	\$ 0.10	\$ 30.00	Brock White, (651) 647-0950	
Compost Grout	2	cu-yd	\$ 30.00	\$ 60.00	NRG, Windscapes, MN Mulch & Soil	
Bio Log 16" (10')	5	each	\$ 165.00	\$ 825.00	Rolanka	
Bio D Block 16" (10')	15	each	\$ 175.00	\$ 2,625.00	Rolanka	
Bio D Block 12 (10')	5	each	\$ 126.00	\$ 630.00	Rolanka	
Wood Stakes (2" x 4" x 48" - hardwood)	150	each	\$ 1.00	\$ 150.00	Brock White, (651) 647-0950	
Aggregate: Buff Limestone (18"-24")	12.5	ton	\$ 35.00	\$ 437.50	Hedberg, Frador, Local Supplier	
				Materials Subtotal	\$ 5,117.50	

Plants: Streambank Stabilization						
Item	Qty	Unit	Unit Cost	Amount	Potential Source	
Native Plant: Plug	443	each	\$ 1.50	\$ 664.50	Native Plant Supplier	
Native Shrub: 1 Gallon	66	each	\$ 15.00	\$ 990.00	Native Plant Supplier	
Shady Woodland Mix 500ft2	1.00	each	\$ 84.00	\$ 84.00	Prairie Moon	
Short Sedge Meadow Mix 1000ft2	1.00	each	\$ 47.00	\$ 47.00	Native Plant Supplier	
				Plants Subtotal	\$ 1,785.50	

Labor: Streambank Stabiliza						
Mobilization	1.00	job	\$ 1,000.00	\$ 1,000.00	Landscape/Excavation Contractor	
Deliveries (Mulch, Plants, Rock, Soil, etc)	4	job	\$ 150.00	\$ 600.00	Suppliers/Contractors	
Disposal	1.00	job	\$ 1,000.00	\$ 1,000.00	Landscape/Excavation Contractor	
Grading (<u>Tracked Equipment Only</u> - no wheeled vehicles in excavation area)	8	hrs	\$ 85.00	\$ 680.00	Landscape/Excavation Contractor	
Material Installation (4 person crew/ 10hr day)	6.00	job	\$ 2,500.00	\$ 15,000.00	Landscape/Excavation Contractor	
				Subtotal	\$ 18,280.00	

Project Total: Streambank Stabilization		
	Materials Estimate:	\$ 5,117.50
	Plants Estimate:	\$ 1,785.50
	Labor Estimate:	\$ 18,280.00
	Project Estimate:	\$ 25,183.00
	:-10%	\$ 22,664.70
	:+10%	\$ 27,701.30