



# SHUSWAP NORTH OKANAGAN RAIL TRAIL

## RE-VEGETATION GUIDELINES - STATION POINTS 00+000 TO 37+770

2024.12.31





# SECTIONS

- PROJECT OVERVIEW + REVEGETATION GUIDELINES INTENT
- PLANT PALETTE - INTEGRATION OF INDIGENOUS PLANTS AND TRADITIONAL KNOWLEDGE
- 3D VISUALIZATIONS OF NORTH OKANAGAN RAIL TRAIL THROUGH ENDERBY TEST SECTION
- ENDERBY NORTH OKANAGAN RAIL TRAIL SECTION - ISSUED FOR TENDER DOCUMENTS
- SICAMOUS NARROWS NORTH OKANAGAN RAIL TRAIL SECTION - ISSUED FOR TENDER DOCUMENTS
- BASELINE CASE STUDIES: REVEGETATION OF 3 TYPICAL TREATMENT SECTIONS TO BE APPLIED TO OTHER SECTIONS
- NEXT STEPS



## SHUSWAP NORTH OKANAGAN RAIL TRAIL RE-VEGETATION GUIDELINES

ENDERBY - SICAMOUS, BRITISH COLUMBIA | DECEMBER 31, 2024



# RAIL TRAIL RE-VEGETATION PROJECT OVERVIEW

- Re-establish indigenous native plant habitats and improving overall ecosystem health along the rail trail corridor;
- Meaningful engagement with the Splatshin te Secwepemc to appropriately incorporate cultural values within the rail trail corridor;
- Develop three baseline conceptual re-vegetation prescriptions:
  - Natural Areas
  - Highly Impacted Areas (Enderby - Linear Park)
  - Impacted Areas adjacent to private homes (Sicamous Narrows)
- Cost effective, easily implementable, low maintenance design options;
- Explore the potential for phasing and grant funding applications
- Long term strategy for invasive plant mitigation and ongoing maintenance; and
- Target strategic re-vegetation (Spring 2024/25) precedent for future projects and as an example for fundraising.



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ENDERBY - SICAMOUS, BRITISH COLUMBIA | DECEMBER 31, 2024



# RAIL TRAIL RE-VEGETATION GUIDELINES

## CONSISTENCY AND IN ALIGNMENT WITH OTHER RAIL TRAIL PLANS:










- + Shuswap North Okanagan Rail Trail Development Plan (STA 2021)
- + Construction and Signage Plan (Urban Systems)
- \* Riparian Areas Protection Regulation Assessment Report (QEP Assessment)
- + Maintenance Standards (2022)
- + Preliminary Trailhead Parking and Staging Area – Phase 1 (2022/23)
- + Sicamous to Armstrong Rail Trail Development Agricultural Assessment (2020)














# INDIGENOUS PLANT PALETTE

The following are visual representations of some of the vegetation species re-vegetation guidelines. LARCH met collaboratively with Splatins Representatives to expand appropriate species for the Shuswap North Okanagan Rail Trail. This plant palette is intended for visual purposes and not intended to be considered a comprehensive list. Refer to Detailed Plant Schedules within tender packages. Where possible, consider local, acclimatized plant sources. Contact Landscape Architect or Splatins Representative to substitute species based on availability.





**Mock Orange**  
*Philadelphus lewisii*

**Oregon Grape**  
*Mahonia aquifolium*

**Kinnikinnick**  
*Arctostaphylos uva-ursi*

**Dwarf Arctic Willow**  
*Salix purpurea 'Gracilis'*

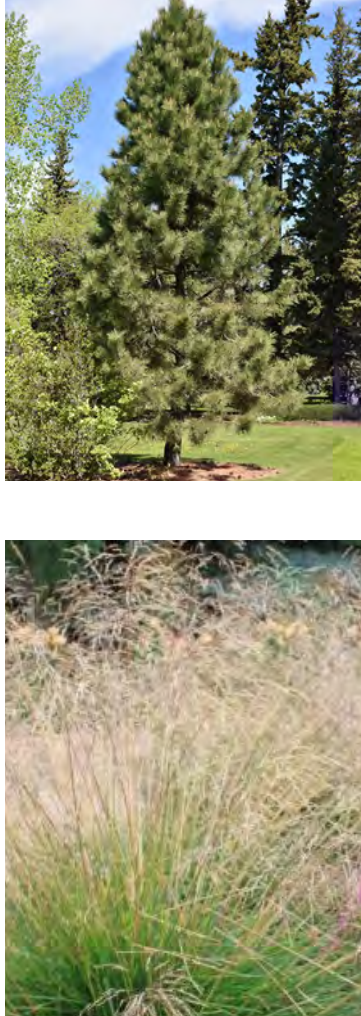



**Prickly Wild Rose**  
*Rosa acicularis*

**Douglas Fir**  
*Pseudotsuga menziesii*

**Birch Leaf Spirea**  
*Spiraea betulifolia*

**Golden Rod**  
*Asteraceae Solidago*

**Lily**  
*Erythronium grandiflorum*



**Coyote Willow**  
*Salix exigua*

**Saskatoon**  
*Amelanchier alnifolia*





**Snowberry**  
*Symphoricarpos albus*

**Trembling Aspen**  
*Populus tremuloides*

**Rocky Mountain Maple**  
*Acer glabrum*

**Ponderosa Pine**  
*Pinus ponderosa*

**Tufted Hairgrass**  
*Deschampsia cespitosa*



**Mallow Ninebark**  
*Physocarpus malvaceus*

**Paper Birch**  
*Betula papyrifera*

**Red Osier Dogwood**  
*Cornus sericea*

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*Cornus sericea*

**Arnica + Balsmaroot**  
*Asteraceae*

**Blue Oat Grass**  
*Helictotrichon sempervirens*

**Coppertina Ninebark**  
*Physocarpus opulifolius*

**Mugo Pine**  
*Pinus mugo*







LOOKING NORTH AT RAILWAY ST + CLIFF AVE



# SHUSWAP NORTH OKANAGAN RAIL TRAIL RE-VEGETATION GUIDELINES

ENDERBY - SICAMOUS, BRITISH COLUMBIA | DECEMBER 31, 2024





LOOKING NORTH ADJACENT TO RAILWAY ST



# SHUSWAP NORTH OKANAGAN RAIL TRAIL RE-VEGETATION GUIDELINES

ENDERBY - SICAMOUS, BRITISH COLUMBIA | DECEMBER 31, 2024





LOOKING NORTH AT GRANVILLE AVE



# SHUSWAP NORTH OKANAGAN RAIL TRAIL RE-VEGETATION GUIDELINES

ENDERBY - SICAMOUS, BRITISH COLUMBIA | DECEMBER 31, 2024





LOOKING SOUTH AT VISITOR CENTRE



# SHUSWAP NORTH OKANAGAN RAIL TRAIL RE-VEGETATION GUIDELINES

ENDERBY - SICAMOUS, BRITISH COLUMBIA | DECEMBER 31, 2024





AXONOMETRIC VIEW AT VISITOR CENTRE



# SHUSWAP NORTH OKANAGAN RAIL TRAIL RE-VEGETATION GUIDELINES

ENDERBY - SICAMOUS, BRITISH COLUMBIA | DECEMBER 31, 2024



# SHUSWAP NORTH OKANAGAN RAIL TRAIL

ENDERBY TEST SECTION - STATION POINTS 35+800 TO 37+770

**RE-VEGETATION PLAN** - ISSUED FOR TENDER

## DRAWING LIST:

L1.0 REVEGETATION PLAN

L1.1 REVEGETATION PLAN

L1.2 REVEGETATION PLAN

L2.0 PLANT SCHEDULE

L2.1 REVEGETATION DETAILS

2023.07.11





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1 REVEGATATION GUIDELINES PLAN - STATION POINTS 37+480 - 37+800  
L1.0 1:500



2 REVEGATATION GUIDELINES PLAN - STATION POINTS 37+470 - 37+050  
L1.1 1:500

**LEGEND**

- EXISTING UNDERGROUND UTILITIES PER CSRD DATA
- EXISTING OVERHEAD UTILITIES PER CSRD DATA
- EXISTING TREES TO REMAIN - PROTECT IN PLACE
- PROPOSED VEGETATION REFER TO PLANT SCHEDULE
- POTENTIAL FUTURE BACKED BENCH LOCATIONS PER RAIL TRAIL DEVELOPMENT PLAN STANDARD - NOT IN SCOPE
- POTENTIAL FUTURE LOCATION FOR BEAR PROOF GARBAGE AND RECYCLING BINS - NOT IN SCOPE
- PROPOSED RECLAMATION SEED MIX AREAS - 150mm TOPSOIL AND HYDROSEED - REFER TO L2.0 QTY: 1,980 m2 (21,000 t2) APPLY TACKIFIER OR BIODEGRADABLE EROSION CONTROL MATTING ON ANY SLOPES EXCEEDING 3:1
- POTENTIAL MICROFOREST PLANTING SITE IN COLLABORATION WITH SMALL WETLANDS ASSOCIATION
- PROPOSED COURSE CEDAR MULCH OR ANGULAR CHARCOAL ROCK MULCH TO 75mm (3" DEPTH) WITH TYPAR WEED BARRIER FABRIC OR APPROVED EQUIVALENT APPROX. AREA: 400m2 (4,300 t2)
- PROPOSED BOULDER - LOCAL STONE APPROX. 500mm HT x 1000mm L x 500mm W BURIED APPROX. 1/3 DEPTH QTY: 50

- GENERAL NOTES:**
- CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING UTILITIES AND SERVICES, BC ONE CALL 1-800-474-6886.
  - ALL WORK AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE CITY OF ENDERBY CONSTRUCTION STANDARDS, AND THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) REQUIREMENTS.
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  - THE LANDSCAPE ARCHITECT WILL BE NOTIFIED MIN. 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
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  - ANY CHANGES OR ALTERATIONS TO DRAWINGS SHALL BE APPROVED BY LANDSCAPE ARCHITECT.
  - CONTRACTOR TO CONFIRM ELEVATION, LOCATION, AND GRADIENT OF SURROUNDING GRADES AND PROVIDE A SMOOTH TRANSITION.
  - CONTRACTOR TO BE REGISTERED WITH WORKSAFE BC.
- PLANTING NOTES:**
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  - CONFINE EQUIPMENT AND WORKERS TO LIMIT OF DISTURBANCE WITHIN PROJECT BOUNDARY.
  - MINIMUM 150mm OF TOPSOIL AND SEED MIX TO BE PLANTED ADJACENT TO DISTURBED AREAS AND OTHER AREAS OF NEW CONSTRUCTION.
  - PLANT MATERIAL SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITION OF THE CANADIAN NURSERY TRADES ASSOCIATION GUIDE SPECIFICATIONS FOR NURSERY STOCK UNLESS OTHERWISE SPECIFIED.
  - SUPPLY 75mm OF NATURAL COLOUR CEDAR BARK MULCH OR ANGULAR ROCK MULCH TO ALL PROPOSED TREE AND SHRUB BEDS.
  - INSTALL TREE GATOR BAG - SLOW RELEASE WATERING SYSTEM (OR APPROVED EQUIVALENT) ON ALL PROPOSED DECIDUOUS TREES AND TREE GATOR JR. PRO LOW PROFILE - SLOW RELEASE WATERING SYSTEM (OR APPROVED EQUIVALENT) ON ALL PROPOSED CONIFEROUS TREES.
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  - PH VALUE RANGING FROM 5.9 TO 7.0.
  - NON-TOXIC TO PLANT GROWTH.
  - E.C. - SALINITY READING NOT EXCEEDING 1.5.
  - SOIL TEXTURE: LOAM SOIL AS DEFINED BY CANADIAN SYSTEM OF SOIL CLASSIFICATION.
- PEAT MOSS:** DECOMPOSED PLANT MATERIAL, FAIRLY ELASTIC AND HOMOGENEOUS, FREE OF DECOMPOSED COLLOIDAL RESIDUE, WOOD, SULPHUR, AND IRON. MINIMUM OF 80% ORGANIC MATTER BY MASS; PH VALUE BETWEEN 4.5 AND 6.0.

**PROJECT:**  
**SHUSWAP NORTH OKANAGAN TRAIL**

**LOCATION:**  
ENDERBY, BC

**KEY MAP:**

**SCALE:** NTS

**CLIENTS:**

**LANDSCAPE ARCHITECT**

**LARCH**  
LANDSCAPE ARCHITECTURE | AUTHENTIC MOUNTAIN DESIGN  
GOLDEN, BC 250.938.7337

**STAMP**

**ISSUED FOR:** TENDER

**DATE:** 2023-07-11

**NOT FOR CONSTRUCTION**

REVISIONS:	NO.	DESCRIPTION.	DATE.	BY.
1.	PRELIMINARY DISCUSSION		2022-11-02	EL/JJ
2.	PRELIMINARY CONCEPT		2022-12-19	EL/JJ
3.	SPLATINS ENGAGEMENT		2023-02-03	EL/JJ
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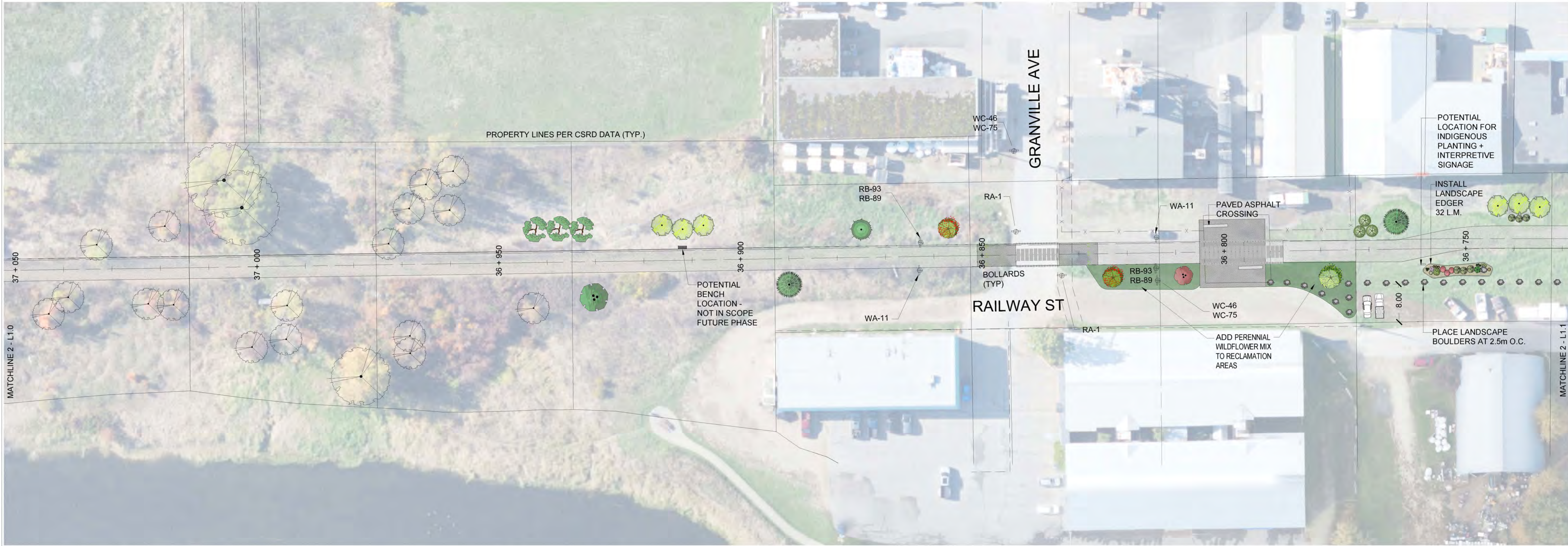
DESIGNED BY: JJ

**DRAWING TITLE :**  
**REVEGETATION PLAN**

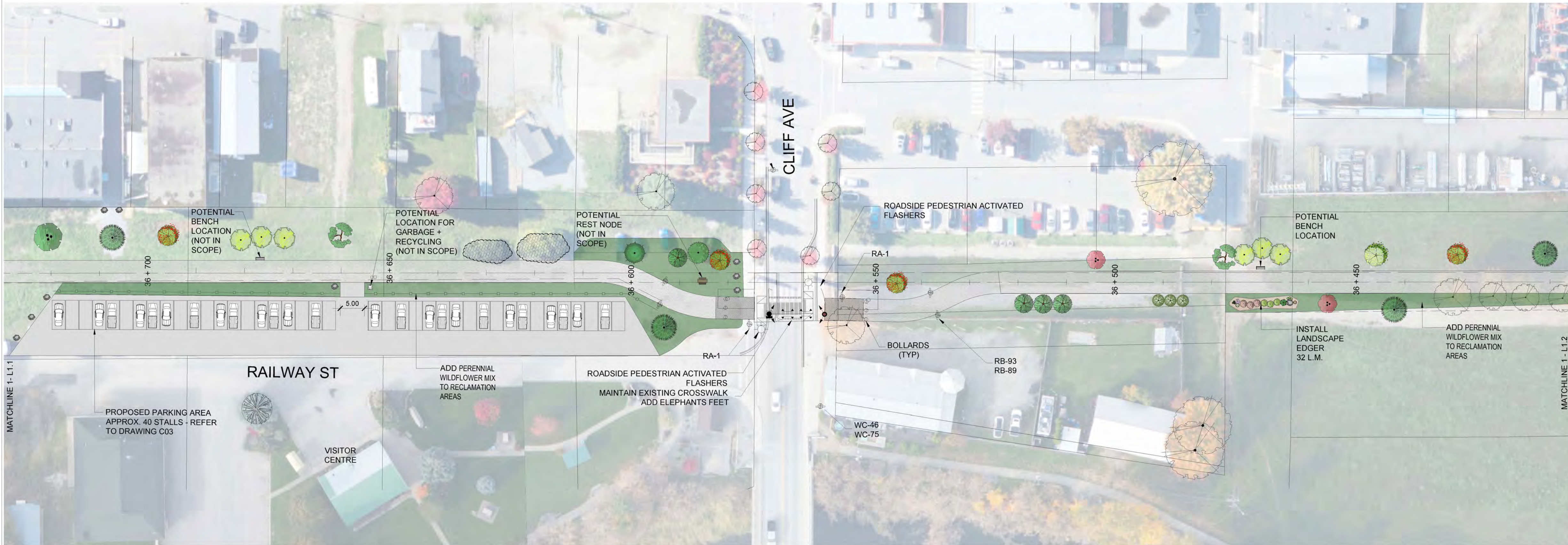
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1 REVEGETATION GUIDELINES PLAN - STATION POINTS 37+050 - 36+730  
L1.1 1:500



2 REVEGETATION GUIDELINES PLAN - STATION POINTS 36+740 - 36+410  
L1.1 1:500

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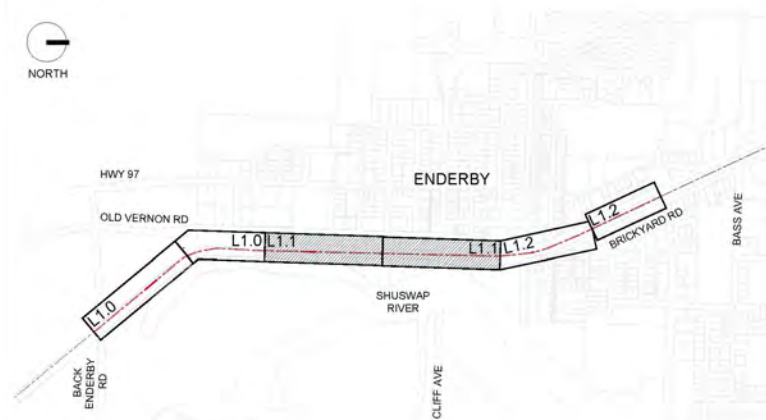
#### PROJECT:

### SHUSWAP NORTH OKANAGAN TRAIL

#### LOCATION:

ENDERBY, BC

#### KEY MAP:



SCALE: NTS

#### CLIENTS:



#### LANDSCAPE ARCHITECT



#### STAMP



0 5.0 15.0 25m  
NORTH SCALE 1:500 NOTE: ORIGINAL SIZE ARCH D (24x36")

#### ISSUED FOR: TENDER

DATE: 2023-07-11

### NOT FOR CONSTRUCTION

#### REVISIONS:

NO.	DESCRIPTION.	DATE.	BY.
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DESIGNED BY: JJ

#### DRAWING TITLE :

### REVEGETATION PLAN

# L-1.1



36 + 400

36 + 350

36 + 300

36 + 250

36 + 200

36 + 150

36 + 100

RA-1

WA-11

WB-93

WB-89

WB-1

WB-12T

RB-93

RB-89

WB-121

RA-1

WA-11

BOLLARDS TYP

INSTALL LANDSCAPE EDGER 32 L.M.

STATION 36+110 TO 36+030 SEE TYP SECTION 2

STATION 37+390 TO 38+110 SEE TYPICAL SECTION 1

REGENT AVE

BRICKYARD RD

HOWARD AVE

MATCHLINE 2 - L1.1

MATCHLINE 2 - L1.2

L1.2 1:500



L1.2 1:500

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## L-1.2



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PLANT SCHEDULE

	TREES	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	QTY
	ACE GIN	Acer ginnala `Flame` / Flame Amur Maple Multi-Stem	-	60mm		3
	ACE SIL	Acer saccharinum 'Silver Cloud' / Silver Cloud Silver Maple	-	60mm		5
	ACE A12	Acer x freemanii `Jeffsred` / Autumn Blaze Maple	-	60mm		17
	BET PAP	Betula papyrifera / Paper Birch Multi-Stem 3-5 Trunks	-	60mm		3
	BET FAR	Betula platyphylla `Fargo` TM / Dakota Pinnacle Asian White Birch	-	50mm		9
	FRA PRA	Fraxinus pennsylvanica `Prairie Spire` / Prairie Spire Ash	-	60mm		6
	LAR OCC	Larix occidentalis / Western Larch	-		2.0m HT.	6
	PIN PON	Pinus ponderosa / Ponderosa Pine	-		2.0m HT.	19
	PIN SYL	Pinus sylvestris / Scotch Pine	-		2.0m HT.	18
	POP TRE	Populus tremuloides / Trembling Aspen	-	60mm		30
	PSE DOU	Pseudotsuga menziesii / Douglas Fir	-		2.0m HT.	4
	TIL CO3	Tilia cordata `Corzam` / Corinthian Littleleaf Linden	-	60mm		5
	SHRUBS ACE GLA	BOTANICAL / COMMON NAME Acer glabrum / Rocky Mountain Maple	CONT #5 CONT.			21
	AME SER	Amelanchier alnifolia / Saskatoon	#2 CONT.			9
	CAL KAR	Calamagrostis x acutiflora `Karl Foerster` / Feather Reed Grass	#2 CONT.			5
	COR MID	Cornus sanguinea 'Midwinter Fire' / Midwinter Fire Bloodtwig Dogwood	#5 CONT.			6
	COR RE5	Cornus sericea / Red Osier Dogwood	#2 CONT.			15
	DES BRO	Deschampsia cespitosa `Bronzeschleier` / Tufted Hair Grass	#2 CONT.			4
	MAH AQU	Mahonia aquifolium / Oregon Grape	#2 CONT.			6
	MON CAM	Monarda x `Cambridge Scarlet` / Red Bee Balm	#2 CONT.			6
	PER ATR	Perovskia atriplicifolia / Russian Sage	#2 CONT.			4
	PHI BLI	Philadelphus lewisii `Blizzard` / Blizzard Mockorange	#5 CONT.			12
	PHY COP	Physocarpus opulifolius `Coppertina` / Coppertina Ninebark	#5 CONT.			6
	PIN CO2	Pinus mugo `Compacta` / Dwarf Mugo Pine	#5 CONT.			4
	RUD GO2	Rudbeckia fulgida sullivantii `Goldsturm` / Black-eyed Susan	#1 CONT.			15
	SAL PUR	Salix purpurea `Nana` / Dwarf Arctic Willow	#2 CONT.			10
	SAL CAR	Salvia nemorosa `Caradonna` / Cardonna Perennial Salvia	#1 CONT.			9



PROPOSED NATIVE RECLAMATION SEED MIX


TUPI MOUNTAIN NATIVE RECLAMATION GRASS SEED MIX TO BE HYDROSEEDDED WITH TACKIFIER AT 200 KG/HECTARE, FERTILIZER AT 250KG/HECTARE.

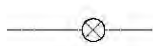
ADD COMBINED WITH WEST COAST SEEDS - PERENNIAL WILDFLOWER MIX 625 GRAMS INTO NATURAL SEED MIX IN AREAS NOTED ON REVEGETATION DRAWINGS


ALTERNATIVE MIX OR APPROVED EQUIVALENT:


REVEGETATION MIX BY TOP CROP CRANBROOK  
ITEM# FRXT6108


LEGEND


 EXISTING UNDERGROUND UTILITIES PER CSRD DATA


 EXISTING OVERHEAD UTILITIES PER CSRD DATA


 EXISTING TREES TO REMAIN - PROTECT IN PLACE


 PROPOSED VEGETATION REFER TO PLANT SCHEDULE


 POTENTIAL FUTURE BACKED BENCH LOCATIONS PER RAIL TRAIL DEVELOPMENT PLAN STANDARD - NOT IN SCOPE

 POTENTIAL FUTURE LOCATION FOR BEAR PROOF GARBAGE AND RECYCLING BINS - NOT IN SCOPE

 PROPOSED RECLAMATION SEED MIX AREAS - 150mm TOPSOIL AND HYDROSEED - REFER TO L2.0 QTY: 1,990 m2 (21,000 t2) APPLY TACKIFIER OR BIODEGRADABLE EROSION CONTROL MATTING ON ANY SLOPES EXCEEDING 3:1

 POTENTIAL MICROFOREST PLANTING SITE IN COLLABORATION WITH SMALL WETLANDS ASSOCIATION

 PROPOSED COURSE CEDAR MULCH OR ANGULAR CHARCOAL ROCK MULCH TO 75mm (3" DEPTH) WITH TYPAR WEED BARRIER FABRIC OR APPROVED EQUIVALENT APPROX. AREA: 400m2 (4,300 t2)

 PROPOSED BOULDER - LOCAL STONE APPROX. 500mm HT x 1000mm L x 500mm W BURIED APPROX. 1/3 DEPTH QTY: 50

GENERAL NOTES:

- CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING UTILITIES AND SERVICES, BC ONE CALL 1-800-474-6886.
- ALL WORK AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE CITY OF ENDERBY CONSTRUCTION STANDARDS, AND THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) REQUIREMENTS.
- CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO DEMOLITION OR CONSTRUCTION.
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO ENGINEER OR LANDSCAPE ARCHITECT. PROPERTY LINES TO BE VERIFIED PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE THE STAGING OF CONSTRUCTION ACTIVITIES AND WORK WITH ALL OTHER CONTRACTORS ONSITE, INCLUDING SLEEVINGS AND WEeping TILE DOWNSPOUT LOCATIONS PRIOR TO HARDSCAPE /SOFTSCAPE INSTALLATION.
- THE LANDSCAPE ARCHITECT WILL BE NOTIFIED MIN. 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- THE QUANTITIES LISTED ARE ESTIMATES. CONTRACTOR TO VERIFY ALL QUANTITIES THROUGH SITE SURVEY AND REPORT ANY DISCREPANCIES TO ENGINEER OR LANDSCAPE ARCHITECT.
- ANY CHANGES OR ALTERATIONS TO DRAWINGS SHALL BE APPROVED BY LANDSCAPE ARCHITECT.
- CONTRACTOR TO CONFIRM ELEVATION, LOCATION, AND GRADIENT OF SURROUNDING GRADES AND PROVIDE A SMOOTH TRANSITION.
- CONTRACTOR TO BE REGISTERED WITH WORKSAFE BC.

PLANTING NOTES:

- REFER TO PLANT SCHEDULE FOR DETAILED SPECIES INFORMATION. NO PLANT SUBSTITUTIONS ARE PERMITTED WITHOUT WRITTEN APPROVAL BY LANDSCAPE ARCHITECT.
- CONFINE EQUIPMENT AND WORKERS TO LIMIT OF DISTURBANCE WITHIN PROJECT BOUNDARY.
- MINIMUM 150mm OF TOPSOIL AND SEED MIX TO BE PLANTED ADJACENT TO DISTURBED AREAS AND OTHER AREAS OF NEW CONSTRUCTION.
- PLANT MATERIAL SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITION OF THE CANADIAN NURSERY TRADES ASSOCIATION GUIDE SPECIFICATIONS FOR NURSERY STOCK UNLESS OTHERWISE SPECIFIED.
- SUPPLY 75mm OF NATURAL COLOUR CEDAR BARK MULCH OR ANGULAR ROCK MULCH TO ALL PROPOSED TREE AND SHRUB BEDS.
- INSTALL TREE GATOR BAG - SLOW RELEASE WATERING SYSTEM (OR APPROVED EQUIVALENT) ON ALL PROPOSED DECIDUOUS TREES AND TREE GATOR JR. PRO LOW PROFILE - SLOW RELEASE WATERING SYSTEM (OR APPROVED EQUIVALENT) ON ALL PROPOSED CONIFEROUS TREES.
- TREES AND SHRUBS TO BE GUARANTEED FOR 1 FULL GROWING SEASONS BY CONTRACTOR. ALL REPLACEMENTS TO BE AT CONTRACTOR'S EXPENSE. SUBSTITUTIONS TO BE APPROVED BY LANDSCAPE ARCHITECT.

TOPSOIL NOTES:

- GROWING MEDIUM FOR ALL TREE, SHRUB, ANDPERENNIAL BEDS IS TO MEET THE CANADIAN LANDSCAPE SPECIFICATION UNDER THE DESIGNATION 2P.
- GROWING MEDIUM SHOULD BE CERTIFIED TO IT'S ORIGIN AND VIRTUALLY FREE OF INVASIVE PLANT SEEDS, THEIR REPRODUCTIVE PARTS AND ROOTS, BUILDING MATERIALS, INVASIVE OR NOXIOUS PLANTS, NON COMPOSTED WOOD, WOOD WASTE, INSECT PESTS, PLANT PATHOGENIC ORGANISMS, CHEMICAL POLLUTANTS OR SUBSTANCES AT LEVELS TOXIC TO PLANTS, AND OTHER EXTRANEOUS MATERIALS THAT DETRACT FROM DESIRABLE PHYSICAL AND CHEMICAL PROPERTIES REQUIRED FOR LANDSCAPING PURPOSES.

LOAM: NATURAL, FERTILE, FRIABLE, AGRICULTURAL SOIL MEETING FOLLOWING REQUIREMENTS:

- NOT LESS THAN 6% ORGANIC MATERIAL.
- PH VALUE RANGING FROM 5.9 TO 7.0.
- NON-TOXIC TO PLANT GROWTH.
- E.C. SALINITY READING NOT EXCEEDING 1.5.
- SOIL TEXTURE: LOAM SOIL AS DEFINED BY CANADIAN SYSTEM OF SOIL CLASSIFICATION.

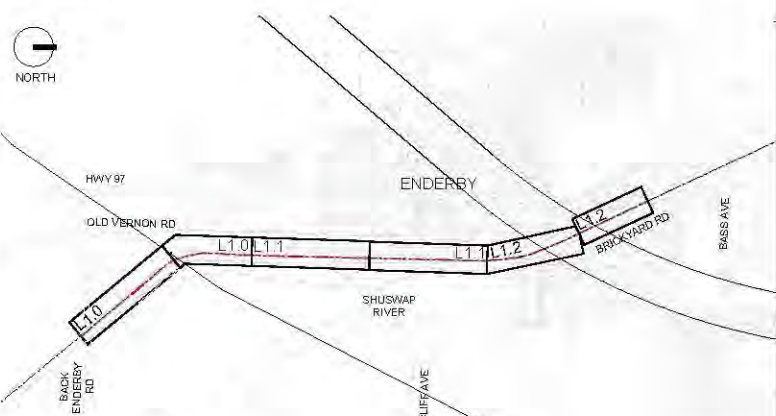
PEAT MOSS: DECOMPOSED PLANT MATERIAL, FAIRLY ELASTIC AND HOMOGENEOUS, FREE OF DECOMPOSED COLLOIDAL RESIDUE, WOOD, SULPHUR, AND IRON. MINIMUM OF 80% ORGANIC MATTER BY MASS; PH VALUE BETWEEN 4.5 AND 6.0.

PROJECT:

**SHUSWAP NORTH OKANAGAN TRAIL**




LOCATION:  
ENDERBY, BC

KEY MAP:




SCALE: NTS

CLIENTS:




LANDSCAPE ARCHITECT



LANDSCAPE ARCHITECTURE | AUTHENTIC MOUNTAIN DESIGN  
GOLDEN, BC 250.938.7337

STAMP





0 5.0 15.0 25m

NORTH SCALE 1:500 NOTE: ORIGINAL SIZE ARCH D (24x36")

ISSUED FOR: TENDER

DATE: 2023-07-11

**NOT FOR CONSTRUCTION**

NO.	DESCRIPTION	DATE	BY
1.	PRELIMINRY DISCUSSION	2022-11-02	EL/JJ
2.	PRELIMINRY CONCEPT	2022-12-19	EL/JJ
3.	SPLATSIN ENGAGEMENT	2023-02-03	EL/JJ
4.	COMMITTEE REVIEW	2023-03-02	EL/JJ
5.	ISSUED FOR TENDER	2023-07-11	EL/JJ

DESIGNED BY: JJ

DRAWING TITLE :

**PLANT SCHEDULE**

**L-2.0**







# Shuswap North Okanagan Rail Trail

Project #

Issued for Tender - Unit Price Schedule

2023-09-20

City of Enderby

619 Cliff Avenue, Enderby, BC V0E 1V0

Item / Description	Unit	Qty	Unit Cost	Total
<b>1. CONTRACTOR USE OF SITE, SITE ACCESS, AND SITE SURVEY</b>				
i. Contractor mobilization, establishment of site security fencing, secure staging compound, installation of stockpile areas, tree protection fencing, maintain temporary access routes, safety signage, detours, and haul roads as required. Reinstatement of all areas, surfaces and utilities disturbed. Remove construction debris and demobilization. Contractor to submit location of staging area, stockpile location and sizes, haul routes to City of Enderby representatives and Landscape Architect for approval prior to mobilization.	l.sum	1		
<b>Sub-Total Section 1</b>				
<b>2. REVEGETATION + LANDSCAPE</b>				
<b>A. Trees</b>				
i. Acer ginnala 'Flame' / Flame Amur Maple				
*Per Landscape drawings and specifications.	ea.	3		
ii. Acer saccharinum 'Silver Cloud' / Silver Cloud Silver Maple				
*Per Landscape drawings and specifications.	ea.	5		
iii. Acer x freemanii 'Jeffsred' / Autumn Blaze Maple				
*Per Landscape drawings and specifications.	ea.	17		
iv. Betula papyrifera / Paper Birch				
*Per Landscape drawings and specifications.	ea.	3		
v. Betula platyphylla 'Fargo' TM / Dakota Pinnacle Asian White Birch				
*Per Landscape drawings and specifications.	ea.	9		
vi. Fraxinus pennsylvanica 'Prairie Spire' / Prairie Spire Ash				
*Per Landscape drawings and specifications.	ea.	6		
vii. Larix occidentalis / Western Larch				
*Per Landscape drawings and specifications.	ea.	6		
viii. Pinus ponderosa / Ponderosa Pine				
*Per Landscape drawings and specifications.	ea.	19		
ix. Pinus sylvestris / Scotch Pine				
*Per Landscape drawings and specifications.	ea.	18		
x. Populus tremuloides / Trembling Aspen				
*Per Landscape drawings and specifications.	ea.	30		
xi. Pseudotsuga menziesii / Douglas Fir				
*Per Landscape drawings and specifications.	ea.	4		
xii. Tilia cordata 'Corzam' / Corinthian Littleleaf Linden				
*Per Landscape drawings and specifications.	ea.	5		



# Shuswap North Okanagan Rail Trail

Project #

Issued for Tender - Unit Price Schedule

2023-09-20

City of Enderby

619 Cliff Avenue, Enderby, BC V0E 1V0

Item / Description	Unit	Qty	Unit Cost	Total
<b>B. Shrubs, Grasses, Perennials</b>				
i. Acer glabrum / Rocky Mountain Maple				
*Per Landscape drawings and specifications.	ea.	21		
ii. Amelanchier alnifolia / Saskatoon				
*Per Landscape drawings and specifications.	ea.	9		
iii. 'Karl Foerster' Feather Reed Grass				
*Per Landscape drawings and specifications.	ea.	5		
iv. Cornus sanguinea 'Midwinter Fire' / Midwinter Fire Bloodtwig Dogwood				
*Per Landscape drawings and specifications.	ea.	6		
v. Cornus sericea / Red Osier Dogwood				
*Per Landscape drawings and specifications.	ea.	15		
vi. Deschampsia cespitosa 'Bronzeschleier' / Tufted Hair Grass				
*Per Landscape drawings and specifications.	ea.	4		
vii. Mahonia aquifolium / Oregon Grape				
*Per Landscape drawings and specifications.	ea.	6		
viii. Monarda x 'Cambridge Scarlet' / Red Bee Balm				
*Per Landscape drawings and specifications.	ea.	6		
ix. Perovskia atriplicifolia / Russian Sage				
*Per Landscape drawings and specifications.	ea.	4		
x. Philadelphus lewisii 'Blizzard' / Blizzard Mockorange				
*Per Landscape drawings and specifications.	ea.	12		
xi. Physocarpus opulifolius 'Coppertina' / Coppertina Ninebark				
*Per Landscape drawings and specifications.	ea.	6		
xii. Pinus mugo 'Compacta' / Dwarf Mugo Pine				
*Per Landscape drawings and specifications.	ea.	4		
xiii. Rudbeckia fulgida sullivantii 'Goldsturm' / Black-eyed Susan				
*Per Landscape drawings and specifications.	ea.	15		
xiv. Salix purpurea 'Nana' / Dwarf Arctic Willow				
*Per Landscape drawings and specifications.	ea.	10		
xv. Salvia nemorosa 'Caradonna' / Cardonna Perennial Salvia				
*Per Landscape drawings and specifications.	ea.	9		



# Shuswap North Okanagan Rail Trail

Project #

Issued for Tender - Unit Price Schedule

2023-09-20

City of Enderby

619 Cliff Avenue, Enderby, BC V0E 1V0

Item / Description	Unit	Qty	Unit Cost	Total
<b>C. Landscape Items</b>				
i. Feature Boulders				
*Per Landscape drawings. Supply and install local source feature boulders approx. 1000mm L x 500mm H x 500mm W.	ea.	50		
ii. Landscape Edger				
*Per Landscape drawings. Supply and install Permaloc cleanline black metal edger or approved equivalent.	l.m.	130		
iii. Tree Gator Watering Bag (Deciduous Trees)				
*Per Landscape drawings. Supply and install Gator Bag Pro or approved equivalent.	e.a.	78		
iv. Tree Gator Jr. Watering Bag (Coniferous Trees)				
*Per Landscape drawings. Supply and install Gator Bag Pro or approved equivalent.	e.a.	47		
<b>D. Planting Medium - Topsoil</b>				
i. Planting Medium for Tree and Shrub Beds				
*Supply and install screened topsoil to 1000mm depth per specifications including soil amendments per landscape drawings and specifications to all planting areas.	cu.m	250		
ii. Topsoil for reclamation areas				
*Supply and install screened topsoil to 150mm depth in reclamation seed mix areas.	cu.m	275		
<b>E. Landscape Mulch</b>				
i. Bark Mulch				
*Supply and installation of coarse natural colour cedar bark or rock mulch including TYPAR landscape fabric underlay (or approved equivalent) per landscape drawings and specifications.	sq.m	250		
<b>Sub-Total Section 2</b>				
<b>Total</b>				

NOTE:

\* Contractor is to ensure all items listed above are supplied, installed, and maintained in accordance with City of Enderby Development Guidelines & Standard Specifications and MMCD (Current Edition)

\* All quantities and areas are to be confirmed prior to construction



# RAIL TRAIL RE-VEGETATION PROJECT OBJECTIVES

- Develop three baseline conceptual re-vegetation prescriptions:
  - Highly Impacted Areas (Enderby - Linear Park)
  - **Impacted Areas adjacent to private homes (Sicamous Narrows)**
  - Natural Areas (Remote Rail Trail Locations)
- Re-establish indigenous native plant habitats and improving overall ecosystem health along the rail trail corridor;
- Meaningful engagement with the Splatshin te Secwepemc to appropriately incorporate cultural values within the rail trail corridor;
- Cost effective, easily implementable, low maintenance design options;
- Explore the potential for phasing and grant funding applications
- Long term strategy for invasive plant mitigation and ongoing maintenance; and
- Target re-vegetation (Spring 2025) precedent for future projects and as an example for fundraising.



## SHUSWAP NORTH OKANAGAN RAIL TRAIL RE-VEGETATION GUIDELINES

ENDERBY - SICAMOUS, BRITISH COLUMBIA | DECEMBER 31, 2024



# SICAMOUS NARROWS RAIL TRAIL RE-VEGETATION DIRECTION

The following represents a summary of the direction provided by the Technical Rail Trail Operating Committee for the Revegetation Plan for the Sicamous Narrows trail corridor section moving forward toward Tender Documents.

- The Rail Trail Corridor runs through Indigenous Traditional Territory
  - All disturbance requires archaeological assessment (cultural artifacts)
  - Increase awareness of Splatstin presence
  - Utilize vegetation to protect sensitive areas and habitat
  - Re-establish indigenous native plant habitats and improving overall ecosystem health along the rail trail corridor;
- This corridor will be disturbed during construction, it represents an opportunity address areas of encroachment within the corridor. It is incumbent on land owners to protect and restore the corridor and sensitive riparian habitat from encroachment and disturbance;
- The Revegetation Plan will be respectful of access and existing views wherever possible;
- Opportunities for homeowners to explore bylaw applications for variances within the corridor



SHUSWAP NORTH OKANAGAN RAIL TRAIL RE-VEGETATION GUIDELINES

ENDERBY - SICAMOUS, BRITISH COLUMBIA | DECEMBER 31, 2024



# SHUSWAP NORTH OKANAGAN RAIL TRAIL

SICAMOUS SECTION - STATION POINTS 0+500 TO 1+500

**RE-VEGETATION PLAN** - ISSUED FOR TENDER

## DRAWING LIST:

L1.0 REVEGETATION PLAN

L1.1 REVEGETATION PLAN

L1.2 REVEGETATION PLAN

L2.0 PLANT SCHEDULE

L2.1 REVEGETATION DETAILS

2024.07.02





**MARA LAKE**

**NOTE: ALL EXISTING VEGETATION TO BE PROTECTED IN PLACE UNLESS SPECIFIED**

**FUTURE DIRECTIONAL SIGNAGE TBD BY OWNER - START OF CONSTRUCTION AT STATION 0+050**

**CONGREVE ROAD**

**OLD SPALLUMCHEEN ROAD**

**HWY 1**

**NOTE: ONLY REVEGETATION/ PLANTING AREAS SHOWN. REFER TO CONTINUOUS STATION POINTS ON CIVIL AND LANDSCAPE**

NOTE: ALL EXISTING VEGETATION TO BE PROTECTED IN PLACE UNLESS SPECIFIED

MARA LAKE

LIMIT OF CONSTRUCTION 0+050

1.0m MIN. CLEARANCE FOR MOW STRIP

EXISTING GRAVEL PILES TO BE REDISTRIBUTED FOR RAIL TRAIL BASE OR REMOVED FROM SITE AND RECLAIMED

LOT 2 - RARI/OEP REPORT INVASIVE PLANT SPECIES TO BE REMOVED:  
RED CLOVER, TANSY RAGWORT, REED CANARY GRASS




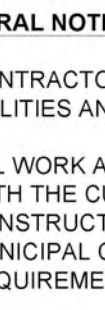
LOT 3 - RARI/OEP REPORT INVASIVE PLANT SPECIES TO BE REMOVED:  
INVASIVE PLANT SPECIES TO BE REMOVED:  
RED CLOVER, WHITE SWEET CLOVER, TANSY RAGWORT, REED CANARY GRASS

LOT 4 RARI/OEP REPORT INVASIVE PLANT SPECIES TO BE REMOVED:  
CHICORY, REED CANARY GRASS

LOT 5 RARI/OEP REPORT INVASIVE PLANT SPECIES TO BE REMOVED:  
WHITE SWEET CLOVER, RED CLOVER, TANSY RAGWORT, GOATS BEARD, REED CANARY GRASS, PINEAPPLE WEED

LOT 6

NOTE: ONLY REVEGETATION/PLANTING AREAS SHOWN. REFER TO CONTINUOUS STATION POINTS ON CIVIL AND LANDSCAPE

<h1>LEGEND</h1>	
	EXISTING LOT LINES, UTILITIES, UNDERGROUND SERVICES PER CSRD DATA
	EXISTING TREES AND VEGETATION TO REMAIN - PROTECT IN PLACE
	PROPOSED VEGETATION REFER TO PLANT SCHEDULE
	PROPOSED RECLAMATION SEED MIX AREAS - 150mm TOPSOIL AND HYDROSEED - REFER TO L2.0 QTY: 2,850 m <sup>2</sup> (30,700 LBS) APPLY TACKIFIER OR BIODEGRADABLE EROSION CONTROL MATTING ON ANY SLOPES EXCEEDING 3:1
<b>GENERAL NOTES:</b>	
1.	CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING UTILITIES AND SERVICES, BC ONE CALL 1-800-474-6886.
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5.	CONTRACTOR IS RESPONSIBLE TO COORDINATE THE STAGING OF CONSTRUCTION ACTIVITIES AND WORK WITH ALL OTHER CONTRACTORS ONSITE, INCLUDING SLEEVING AND WEEPING TIE DOWNSPLOOT LOCATIONS PRIOR TO HARDCAPE/SOFTSCAPE INSTALLATION.
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9.	CONTRACTOR TO CONFIRM ELEVATION, LOCATION, AND GRADIENT OF SURROUNDING GRADES AND PROVIDE A SMOOTH TRANSITION.
10.	CONTRACTOR TO BE REGISTERED WITH WORKSAFE BC.

### PLANTING NOTES:

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2. CONFINE EQUIPMENT AND WORKERS TO LIMIT OF DISTURBANCE WITHIN PROJECT BOUNDARY.
3. MINIMUM 150mm OF TOPSOIL AND SEED MIX TO BE PLANTED ADJACENT TO DISTURBED AREAS AND OTHER AREAS OF NEW CONSTRUCTION.
4. PLANT MATERIAL SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITION OF THE CANADIAN NURSERY TRADES ASSOCIATION GUIDE SPECIFICATIONS FOR NURSERY STOCK UNLESS OTHERWISE SPECIFIED.
5. SUPPLY 75mm OF NATURAL COLOUR CEDAR BARK MULCH OR ANGULAR ROCK MULCH TO ALL PROPOSED TREE AND SHRUB BEDS.
6. INSTALL TREE GATOR BAG - SLOW RELEASE WATERING SYSTEM (OR APPROVED EQUIVALENT) ON ALL PROPOSED DECIDUOUS TREES AND TREE GATOR JR. PRO LOW PROFILE - SLOW RELEASE WATERING SYSTEM (OR APPROVED EQUIVALENT) ON ALL PROPOSED CONIFEROUS TREES.
7. TREES AND SHRUBS TO BE GUARANTEED FOR 1 FULL GROWING SEASONS BY CONTRACTOR. ALL REPLACEMENTS TO BE AT CONTRACTOR'S EXPENSE. SUBSTITUTIONS TO BE APPROVED BY LANDSCAPE ARCHITECT.

## TOPSOIL NOTES:

1. GROWING MEDIUM FOR ALL TREE, SHRUB, AND PERENNIAL BEDS IS TO MEET THE CANADIAN LANDSCAPE SPECIFICATION UNDER THE DESIGNATION 2P.
2. GROWING MEDIUM SHOULD BE CERTIFIED TO ITS ORIGIN AND VIRTUALLY FREE OF INVASIVE PLANT SEEDS, THEIR REPRODUCTIVE PARTS AND ROOTS, BUILDING MATERIALS, INVASIVE OR NOXIOUS PLANTS, NON COMPOSTED WOOD, WOOD WASTE, INSECT PESTS, PLANT PATHOGENIC ORGANISMS, CHEMICAL POLLUTANTS OR SUBSTANCES AT LEVELS TOXIC TO PLANTS AND OTHER EXTRANEALOUS MATERIALS THAT DEDUCT FROM DESIRABLE PHYSICAL AND CHEMICAL PROPERTIES REQUIRED FOR LANDSCAPING PURPOSES.

LOAM: NATURAL, FERTILE, FRIABLE, AGRICULTURAL SOIL MEETING FOLLOWING REQUIREMENTS:

- NOT LESS THAN 8% ORGANIC MATERIAL.
- PH VALUE RANGING FROM 5.9 TO 7.0.
- NON-TOXIC TO PLANT GROWTH.
- E.C - SALINITY READING NOT EXCEEDING 1.5.
- SOIL TEXTURE: LOAM SOIL AS DEFINED BY CANADIAN SYSTEM OF SOIL CLASSIFICATION.

PEAT MOSS: DECOMPOSED PLANT MATERIAL, FAIRLY ELASTIC AND HOMOGENEOUS, FREE OF DECOMPOSED COLLOIDAL RESIDUE, WOOD, SULPHUR, AND IRON. MINIMUM OF 80% ORGANIC MATTER BY MASS; PH VALUE BETWEEN 4.5 AND 6.0.

CLIENTS:



LANDSCAPE ARCHITECT



STAMP



ORIGINAL SHEET SIZE ARCH D 24X36

0 15 45 75m  
SCALE 1:1500

ISSUED FOR: DRAFT ISSUED FOR TENDER

DATE: 2024-07-02

NOT FOR CONSTRUCTION

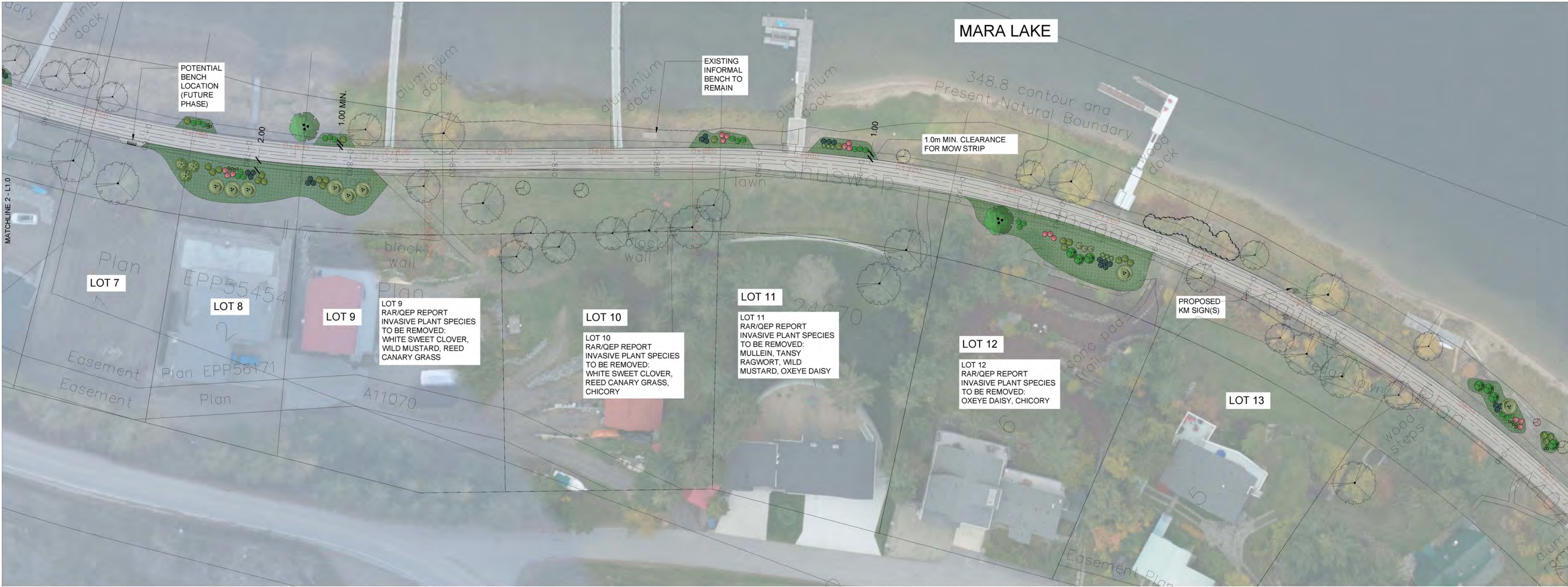
REVISIONS: NO. DESCRIPTION.	DATE.	BY.
1. PRELIMINARY SITE REVIEW	2022-11-02	EL/JJ
2. PRELIMINARY CONCEPT	2022-12-19	EL/JJ
3. SPLATSIN ENGAGEMENT	2023-02-03	EL/JJ
4. COMMITTEE REVIEW	2024-01-17	JJ
5. DRAFT ISSUED FOR TENDER DESIGNED BY: JJ	2024-07-02	JJ

DRAWING TITLE :  
**REVEGETATION PLAN**

L-1.0



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All references to Larch Landscape - Authentic Mountain Design and their employees and all professional seals shall be removed prior to any reuse, modification or alteration to this document.\*



#### LEGEND

- EXISTING LOT LINES, UTILITIES, UNDERGROUND SERVICES PER CSRD DATA
- EXISTING TREES AND VEGETATION TO REMAIN - PROTECT IN PLACE
- PROPOSED VEGETATION REFER TO PLANT SCHEDULE
- PROPOSED RECLAMATION SEED MIX AREAS - 150mm TOPSOIL AND HYDROSEED - REFER TO L2.0 QTY: **2,860 m2 (30,700 ft2)** APPLY TACKIFIER OR BIODEGRADABLE EROSION CONTROL MATTING ON ANY SLOPES EXCEEDING 3:1

#### GENERAL NOTES:

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- SUPPLY 75mm OF NATURAL COLOUR CEDAR BARK MULCH OR ANGULAR ROCK MULCH TO ALL PROPOSED TREE AND SHRUB BEDS.
- INSTALL TREE GATOR BAG - SLOW RELEASE WATERING SYSTEM (OR APPROVED EQUIVALENT) ON ALL PROPOSED DECIDUOUS TREES AND TREE GATOR JR. PRO LOW PROFILE - SLOW RELEASE WATERING SYSTEM (OR APPROVED EQUIVALENT) ON ALL PROPOSED CONIFEROUS TREES.
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  - NON-TOXIC TO PLANT GROWTH.
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PEAT MOSS: DECOMPOSED PLANT MATERIAL, FAIRLY ELASTIC AND HOMOGENEOUS, FREE OF DECOMPOSED COLLOIDAL RESIDUE, WOOD, SULPHUR, AND IRON. MINIMUM OF 80% ORGANIC MATTER BY MASS; PH VALUE BETWEEN 4.5 AND 6.0.

## 1 REVEGETATION GUIDELINES PLAN - STATION POINTS 0+760 - 1+060

L1.1 1:500



## 2 REVEGETATION GUIDELINES PLAN - STATION POINTS 1+060 - 1+380

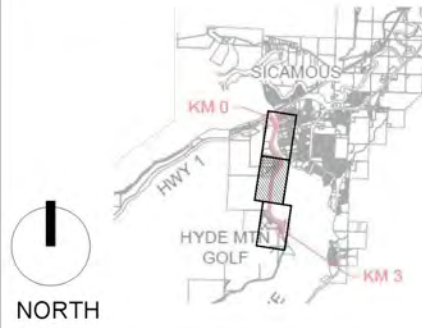
L1.1 1:500

#### PROJECT:

**SHUSWAP NORTH OKANAGAN TRAIL 0km-3km SICAMOUS - ARMSTRONG**

LOCATION:  
SICAMOUS, BC

KEY MAP:



CLIENTS:



LANDSCAPE ARCHITECT



STAMP



ORIGINAL SHEET SIZE ARCH D 24X36

0 15 45 75m  
SCALE 1:1500

ISSUED FOR: DRAFT ISSUED FOR TENDER

DATE: 2024-07-02

**NOT FOR CONSTRUCTION**

REVISIONS:	NO.	DESCRIPTION	DATE	BY
	1.	PRELIMINARY SITE REVIEW	2022-11-02	ELJJ
	2.	PRELIMINARY CONCEPT	2022-12-19	ELJJ
	3.	SPLATSIV ENGAGEMENT	2023-02-03	ELJJ
	4.	COMMITTEE REVIEW	2024-01-17	JJ
	5.	DRAFT ISSUED FOR TENDER	2024-07-02	JJ

DESIGNED BY: JJ

DRAWING TITLE :

**REVEGETATION PLAN**

**L-1.1**



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1 REVEGATATION GUIDELINES PLAN - STATION POINTS 1+380 - 1+640  
L1.2 1:500

LEGEND

- EXISTING LOT LINES, UTILITIES, UNDERGROUND SERVICES PER CSRD DATA
- EXISTING TREES AND VEGETATION TO REMAIN - PROTECT IN PLACE
- PROPOSED VEGETATION REFER TO PLANT SCHEDULE
- PROPOSED RECLAMATION SEED MIX AREAS - 150mm TOPSOIL AND HYDROSEED - REFER TO L2.0 QTY: **2,860 m2 (30,700 ft2)** APPLY TACKIFIER OR BIODEGRADABLE EROSION CONTROL MATTING ON ANY SLOPES EXCEEDING 3:1

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PROJECT:

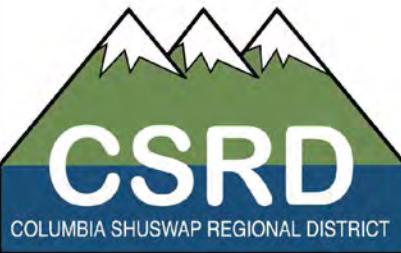
**SHUSWAP NORTH  
OKANAGAN TRAIL 0km-3km  
SICAMOUS - ARMSTRONG**

LOCATION:  
SICAMOUS, BC

KEY MAP:



CLIENTS:



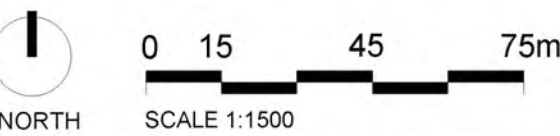
LANDSCAPE ARCHITECT



STAMP



ORIGINAL SHEET SIZE ARCH D 24X36



ISSUED FOR: DRAFT ISSUED FOR TENDER

DATE: 2024-07-02

**NOT FOR CONSTRUCTION**

REVISIONS:			
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4.	COMMITTEE REVIEW	2024-01-17	JJ
5.	DRAFT ISSUED FOR TENDER	2024-07-02	JJ
DESIGNED BY: JJ			

DRAWING TITLE :  
**REVEGETATION PLAN**

**L-1.2**



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PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	CAL	QTY
--------	------	-------------------------	------	-----	-----

TREES

	BET PAP	Betula papyrifera / Paper Birch	-	60mm	8
	BET FAR	Betula platyphylla `Fargo` TM / Dakota Pinnacle Asian White Birch	-	50mm	6
	POP TRE	Populus tremuloides / Trembling Aspen	-	60mm	3

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	QTY
--------	------	-------------------------	------	-----

SHRUBS

	ACE GLA	Acer glabrum / Rocky Mountain Maple	#5 CONT.		31
	AME SER	Amelanchier alnifolia / Saskatoon	#2 CONT.		18
	COR RE5	Cornus sericea / Red Osier Dogwood	#2 CONT.		89
	DES BRO	Deschampsia cespitosa `Bronzeschleier` / Tufted Hair Grass	#2 CONT.		6
	MAH AQU	Mahonia aquifolium / Oregon Grape	#2 CONT.		55
	PHI BLI	Philadelphus lewisii `Blizzard` / Blizzard Mockorange	#5 CONT.		73
	ROS NUT	Rosa nutkana / Nootka Rose	#2 CONT.		95
	SAL PUR	Salix purpurea `Nana` / Dwarf Arctic Willow	#2 CONT.		73
	SPI BET	Spiraea betulifolia / Birch Leaf Spirea	#5 CONT.		6
	SYM ALB	Symphoricarpos albus / Common White Snowberry	#2 CONT.		12






PROPOSED NATIVE RECLAMATION SEED MIX

TIPI MOUNTAIN NATIVE RECLAMATION GRASS SEED MIX TO BE HYDROSEEDDED WITH TACKIFIER AT 200 KG/HECTARE, FERTILIZER AT 250KG/HECTARE.

ALTERNATIVE MIX OR APPROVED EQUIVALENT:

REVEGETATION MIX BY TOP CROP CRANBROOK  
ITEM# FRXT6108

LEGEND

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PROJECT:

**SHUSWAP NORTH  
OKANAGAN TRAIL 0km-3km  
SICAMOUS - ARMSTRONG**

LOCATION:  
SICAMOUS, BC

KEY MAP:



NORTH

CLIENTS:



LANDSCAPE ARCHITECT



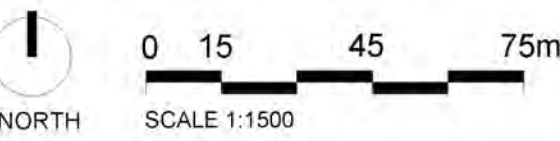
GOLDEN, BC

250.938.7337

STAMP



ORIGINAL SHEET SIZE ARCH D 24X36



NORTH

SCALE 1:1500

ISSUED FOR: DRAFT ISSUED FOR TENDER

DATE: 2024-07-02

**NOT FOR CONSTRUCTION**

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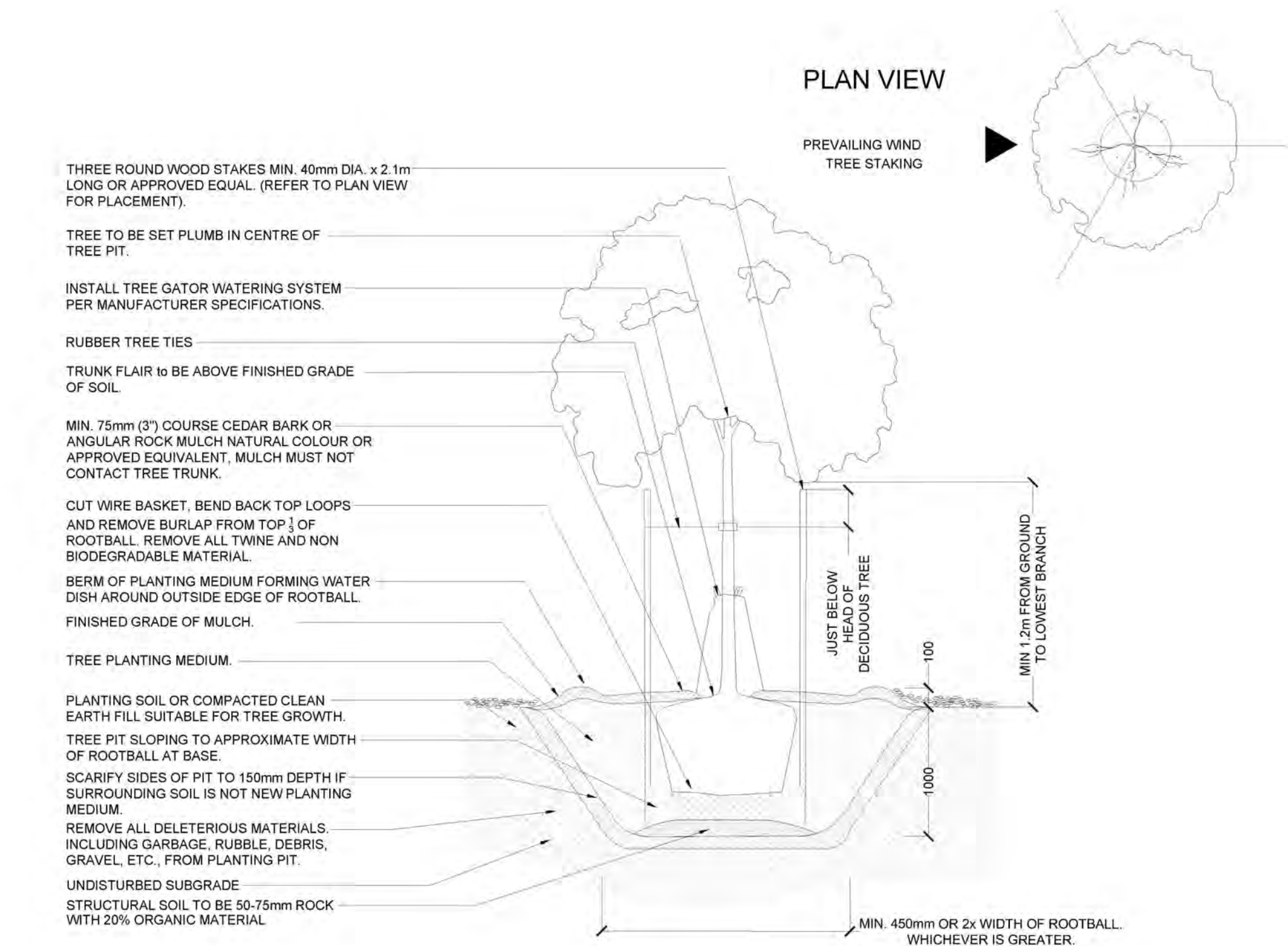
DRAWING TITLE :

**PLANT SCHEDULE**

L-2.0



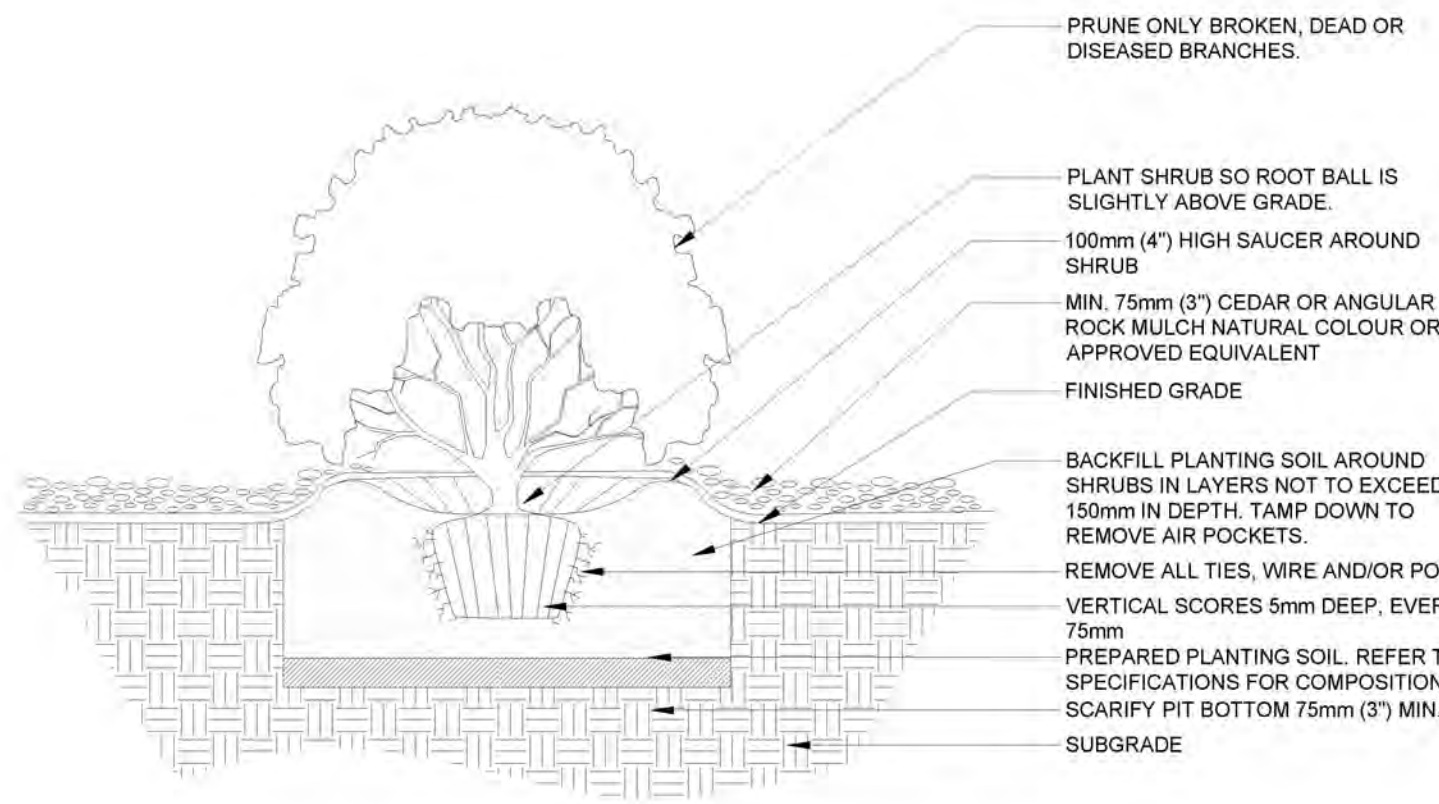
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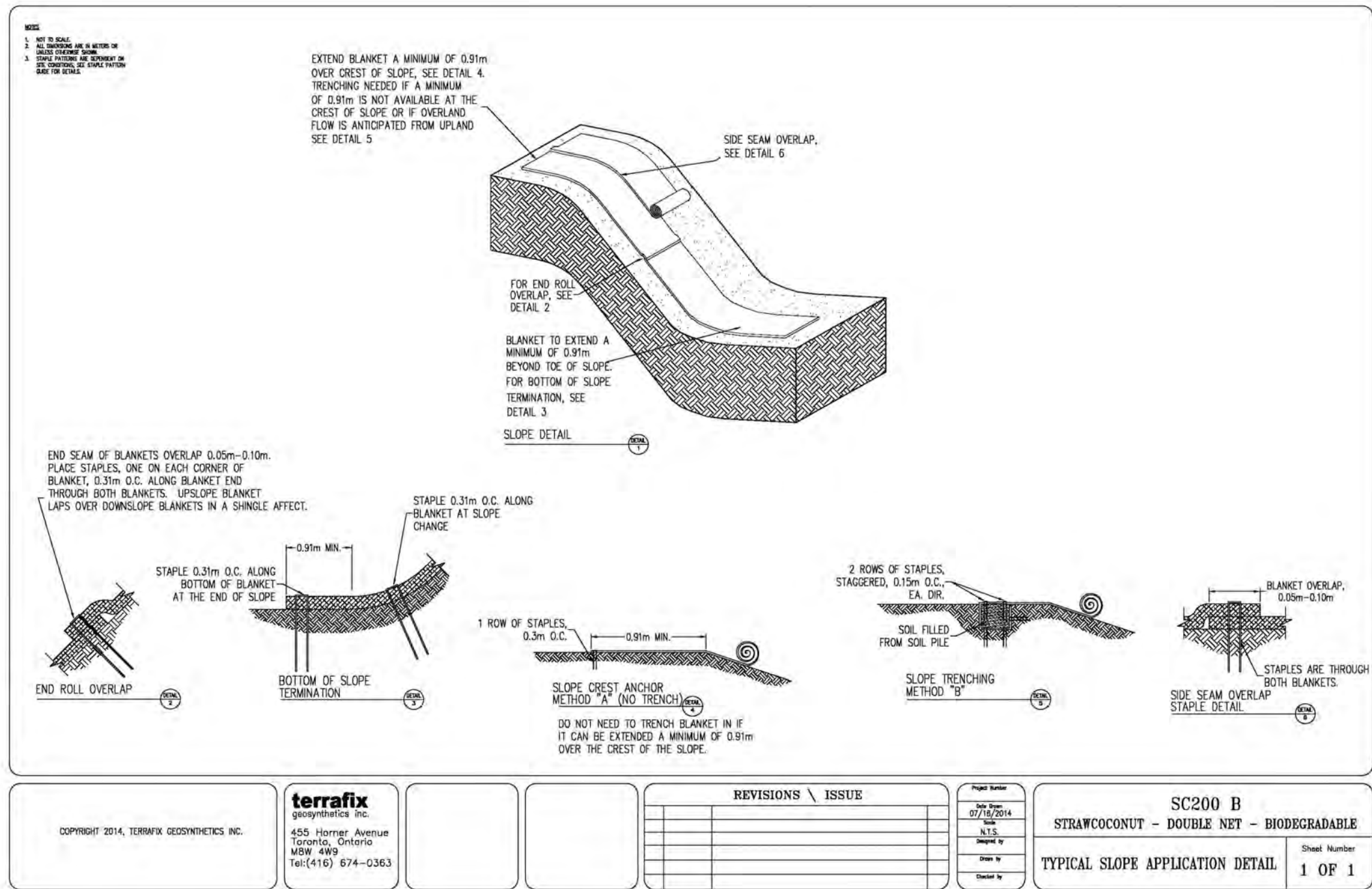
NOTES:

1. WATER THOROUGHLY AFTER INSTALLATION.
2. INSTALL TREE STAKES IF REQUIRED BY CLIENT.
3. REMOVE TREE RINGS AND STAKES TWO YEARS AFTER INSTALLATION.
4. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
5. POSITION CROWN OF ROOT BALL 50mm ABOVE FINISHED GRADE TO ALLOW FOR SETTLEMENT.
6. DEPTH OF ROOTBALL TO MATCH ORIGINAL ROOTBALL DEPTH ESTABLISHED IN THE NURSERY. ANY TREES PLANTED TOO LOW WILL BE RAISED AT THE CONTRACTOR'S EXPENSE.
7. DO NOT DAMAGE OR CUT LEADER.
8. IF STAKING IS DEEMED NECESSARY REFER TO TREE STAKING DETAIL.
9. DO NOT WRAP TRUNK.
10. INSTALL TREE GATOR WATERING SYSTEM PER MANUFACTURER SPECIFICATIONS.
11. ALL TREE AND SHRUB PLANTING TO MEET THE CANADIAN LANDSCAPE STANDARD SPECIFICATIONS, CURRENT EDITION.

1 TREE PLANTING DETAIL  
L2.1 1:30



2 SHRUB PLANTING DETAIL  
L2.1 1:30



3 BIODEGRADABLE EROSION CONTROL MATTING INFORMATION  
L2.1 OR APPROVED EQUIVALENT

PRODUCT SPECIFICATIONS  
Filtrex SiltSoxx® NATURAL ORIGINAL

**PURPOSE & DESCRIPTION**  
Filtrex SiltSoxx NATURAL ORIGINAL is a pre-filled compost filter sock comprised of mesh material and certified FilterMedia™. Filtrex SiltSoxx NATURAL ORIGINAL mesh is 100% natural and biodegradable, eliminating the need for field removal. Leave in place for ongoing, natural protection.

**APPLICATIONS**

- Perimeter Control
- Inlet Protection
- Check Dams
- Slope Interruption

**FOR ADDITIONAL INFORMATION**  
Refer to the [Filtrex Catalog](#) for full item listings.

Refer to [Filtrex Design Specifications](#) for complete application, design, installation, maintenance, and removal documentation at [www.filtrex.com/specs](http://www.filtrex.com/specs)

FIELD APPLICATION PHOTO REFERENCES



Filtrex SiltSoxx NATURAL ORIGINAL used as Slope Interruption.

Filtrex SiltSoxx is in compliance with most state & federal agencies including:



Filtrex SiltSoxx NATURAL ORIGINAL Specifications:

Product Name	Filtrex SiltSoxx NATURAL ORIGINAL
Mesh Material Type	All Natural Biodegradable Cotton Fiber
Uses	leave on site; short-term
Mesh Opening Size	1/8"
Diameters	5", 8", 12"
Functional Longevity/Project Duration¹	up to 12 mo
Tensile Strength (ASTM D4595)²	MD: 193 lbs TD: 158 lbs
Fill Material	Locally sourced FilterMedia
Mesh Color	beige
Mesh Sample	
FilterMedia Sample	

¹Functional longevity ranges are estimates only. Site specific environmental conditions may result in significantly shorter or longer time periods.  
²Tensile Strength is based on 12" diameter using ASTM D4595. See Filtrex TechLink #3343 for full tensile strength testing.

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6. TREES AND SHRUBS TO BE GUARANTEED FOR 1 FULL GROWING SEASONS BY CONTRACTOR. ALL REPLACEMENTS TO BE AT CONTRACTOR'S EXPENSE. SUBSTITUTIONS TO BE APPROVED BY LANDSCAPE ARCHITECT.

TOPSOIL NOTES:

1. GROWING MEDIUM FOR ALL TREE, SHRUB, AND PERENNIAL BEDS IS TO MEET THE CANADIAN LANDSCAPE SPECIFICATION UNDER THE DESIGNATION 2P.
  2. GROWING MEDIUM SHOULD BE CERTIFIED TO ITS ORIGIN AND VIRTUALLY FREE OF INVASIVE PLANT SEEDS, THEIR REPRODUCTIVE PARTS AND ROOTS, BUILDING MATERIALS, INVASIVE OR NOXIOUS PLANTS, NON-COMPOSTED WOOD, WOOD WASTE, INSECT PESTS, PLANT PATHOGENIC ORGANISMS, CHEMICAL POLLUTANTS OR SUBSTANCES AT LEVELS TOXIC TO PLANTS, AND OTHER EXTRANEOUS MATERIALS THAT DETRACT FROM DESIRABLE PHYSICAL AND CHEMICAL PROPERTIES REQUIRED FOR LANDSCAPING PURPOSES.
- LOAM: NATURAL, FERTILE, FRIABLE, AGRICULTURAL SOIL MEETING FOLLOWING REQUIREMENTS:
- NOT LESS THAN 6% ORGANIC MATERIAL.
  - PH VALUE RANGING FROM 5.9 TO 7.0.
  - NON-TOXIC TO PLANT GROWTH.
  - E.C. - SALINITY READING NOT EXCEEDING 1.5.
  - SOIL TEXTURE: LOAM SOIL AS DEFINED BY CANADIAN SYSTEM OF SOIL CLASSIFICATION.

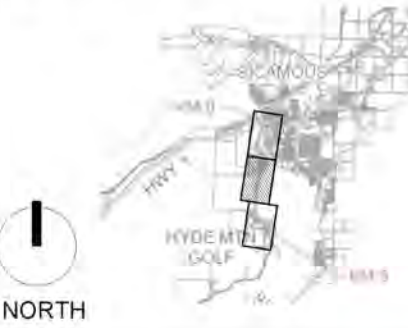
PEAT MOSS: DECOMPOSED PLANT MATERIAL, FAIRLY ELASTIC AND HOMOGENEOUS. FREE OF DECOMPOSED COLLOIDAL RESIDUE, WOOD, SULPHUR, AND IRON. MINIMUM OF 80% ORGANIC MATTER BY MASS; PH VALUE BETWEEN 4.5 AND 6.0.

PROJECT:

**SHUSWAP NORTH  
OKANAGAN TRAIL 0km-3km  
SICAMOUS - ARMSTRONG**

LOCATION:  
SICAMOUS, BC

KEY MAP:



CLIENTS:



LANDSCAPE ARCHITECT



STAMP



ORIGINAL SHEET SIZE ARCH D 24X36

0 15 45 75m  
SCALE 1:1500

ISSUED FOR: DRAFT ISSUED FOR TENDER

DATE: 2024-07-02

**NOT FOR CONSTRUCTION**

REVISIONS:	NO.	DESCRIPTION	DATE	BY
1.	PRELIMINARY SITE REVIEW		2022-11-02	ELJJ
2.	PRELIMINARY CONCEPT		2022-12-19	ELJJ
3.	SPLATSIN ENGAGEMENT		2023-02-03	ELJJ
4.	COMMITTEE REVIEW		2024-01-17	JJ
5.	DRAFT ISSUED FOR TENDER		2024-07-02	JJ

DESIGNED BY: JJ

DRAWING TITLE :  
**LANDSCAPE DETAILS**

L-2.1



Shuswap North Okanagan Rail Trail

Project #

Issued for Tender - Unit Price Schedule  
District of Sicamous

2024-07-02

Item / Description	Unit	Qty	Unit Cost	Total
1. CONTRACTOR USE OF SITE, SITE ACCESS, AND SITE SURVEY				
i. Contractor mobilization, establishment of site security fencing, secure staging compound, installation of stockpile areas, tree protection fencing, maintain temporary access routes, safety signage, detours, and haul roads as required. Reinstatement of all areas, surfaces and utilities disturbed. Remove construction debris and demobilization. Contractor to submit location of staging area, stockpile location and sizes, haul routes to City of Enderby representatives and Landscape Architect for approval prior to mobilization.	l.sum	1		
			Sub-Total Section 1	
2. REVEGETATION + LANDSCAPE				
A. Trees				
i. Betula papyrifera / Paper Birch				
*Per Landscape drawings and specifications.	ea.	8		
ii. Betula platyphylla `Fargo` TM / Dakota Pinnacle Asian White Birch				
*Per Landscape drawings and specifications.	ea.	9		
iii. Populus tremuloides / Trembling Aspen				
*Per Landscape drawings and specifications.	ea.	3		



Shuswap North Okanagan Rail Trail

Project #

Issued for Tender - Unit Price Schedule  
District of Sicamous

2024-07-02

Item / Description	Unit	Qty	Unit Cost	Total
<b>B. Shrubs, Grasses, Perennials</b>				
i. Acer glabrum / Rocky Mountain Maple				
*Per Landscape drawings and specifications.	ea.	34		
ii. Amelanchier alnifolia / Saskatoon				
*Per Landscape drawings and specifications.	ea.	22		
iii. Cornus sericea / Red Osier Dogwood				
*Per Landscape drawings and specifications.	ea.	95		
iv. Deschampsia cespitosa `Bronzeschleier` / Tufted Hair Grass				
*Per Landscape drawings and specifications.	ea.	6		
v. Mahonia aquifolium / Oregon Grape				
*Per Landscape drawings and specifications.	ea.	61		
vi. Philadelphus lewisii `Blizzard` / Blizzard Mockorange				
*Per Landscape drawings and specifications.	ea.	80		
vii. Rosa nutka / Nutka Rose				
*Per Landscape drawings and specifications.	ea.	108		
viii. Salix purpurea `Nana` / Dwarf Arctic Willow				
*Per Landscape drawings and specifications.	ea.	79		
ix. Spiraea betulifolia / Birch Leaf Spirea				
*Per Landscape drawings and specifications.	ea.	6		
x. Symphoricarpos albus / Common White Snowberry				
*Per Landscape drawings and specifications.	ea.	12		



Shuswap North Okanagan Rail Trail

Project #

Issued for Tender - Unit Price Schedule  
District of Sicamous

2024-07-02

Item / Description	Unit	Qty	Unit Cost	Total
<b>C. Landscape Items</b>				
i. Feature Boulders				
*Per Landscape drawings. Supply and install local source feature boulders approx. 1000mm L x 500mm H x 500mm W.				
	ea.	5		
ii. Tree Gator Watering Bag (Deciduous Trees)				
*Per Landscape drawings. Supply and install Gator Bag Pro or approved equivalent.				
	e.a.	17		
<b>D. Planting Medium - Topsoil</b>				
i. Planting Medium for Tree and Shrub Beds				
*Supply and install screened topsoil to 1000mm depth per specifications including soil amendments per landscape drawings and specifications to all planting areas.				
	cu.m	560		
ii. Topsoil for reclamation areas				
*Supply and install screened topsoil to 150mm depth in reclamation seed mix areas.				
	cu.m	430		
<b>E. Landscape Mulch</b>				
i. Bark Mulch				
*Supply and installation of course natural colour cedar bark or rock mulch including TYPAR landscape fabric underlay (or approved equivalent) per landscape drawings and specifications.				
	sq.m	300		
Sub-Total Section 2				
Total				

NOTE:

\* Contractor is to ensure all items listed above are supplied, installed, and maintained in accordance with District of Sicamous Development Guidelines & Standard Specifications and MMCD (Current Edition)

\* All quantities and areas are to be confirmed prior to construction



# SHUSWAP NORTH OKANAGAN RAIL TRAIL

## BASELINE TREATMENTS FOR RAIL TRAIL RE-VEGETATION PLAN

ISSUED FOR: **TENDER**

### DRAWING LIST:

- L1.0 REVEGETATION PLAN - HOT DRY RURAL AGRICULTURAL SITE
- L1.1 REVEGETATION PLAN - HOT DRY RURAL AGRICULTURAL SITE
- L1.2 PLANT SCHEDULE - HOT DRY RURAL AGRICULTURAL SITES
- L1.3 REVEGETATION DETAILS - HOT DRY RURAL AGRICULTURAL SITES
- L2.0 REVEGETATION PLAN - PROTECTION OF ARCH RESOURCES + RIPARIAN IMPROVEMENTS
- L2.1 PLANT SCHEDULE - RIPARIAN IMPROVEMENTS
- L2.2 REVEGETATION DETAILS - RIPARIAN IMPROVEMENTS
- L3.0 REVEGETATION PLAN - SEMI-WET SITE
- L3.1 REVEGETATION PLAN - SEMI-WET SITE
- L3.2 PLANT SCHEDULE -- SEMI-WET SITE

2024.11.19





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- EXISTING TREES AND VEGETATION TO REMAIN - PROTECT IN PLACE
- PROPOSED VEGETATION REFER TO PLANT SCHEDULE
- PROPOSED RECLAMATION SEED MIX AREAS - 150mm TOPSOIL AND HYDROSEED - REFER TO L2.0 QTY: 2,850 m<sup>2</sup> (30,700 ft<sup>2</sup>) APPLY TACKIFIER OR BIODEGRADABLE EROSION CONTROL MATTING ON ANY SLOPES EXCEEDING 3:1

**GENERAL NOTES:**

- CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING UTILITIES AND SERVICES, BC ONE CALL 1-800-474-6886.
- ALL WORK AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE CITY OF SICAMOUS CONSTRUCTION STANDARDS, AND THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) REQUIREMENTS.
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- ANY CHANGES OR ALTERATIONS TO DRAWINGS SHALL BE APPROVED BY LANDSCAPE ARCHITECT.
- CONTRACTOR TO CONFIRM ELEVATION, LOCATION, AND GRADIENT OF SURROUNDING GRADES AND PROVIDE A SMOOTH TRANSITION.
- CONTRACTOR TO BE REGISTERED WITH WORKSAFE BC.

**PLANTING NOTES:**

- REFER TO PLANT SCHEDULE FOR DETAILED SPECIES INFORMATION. NO PLANT SUBSTITUTIONS ARE PERMITTED WITHOUT WRITTEN APPROVAL BY LANDSCAPE ARCHITECT.
- CONFINE EQUIPMENT AND WORKERS TO LIMIT OF DISTURBANCE WITHIN PROJECT BOUNDARY.
- MINIMUM 150mm OF TOPSOIL AND SEED MIX TO BE PLANTED ADJACENT TO DISTURBED AREAS AND OTHER AREAS OF NEW CONSTRUCTION.
- PLANT MATERIAL SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITION OF THE CANADIAN NURSERY TRADES ASSOCIATION GUIDE SPECIFICATIONS FOR NURSERY STOCK UNLESS OTHERWISE SPECIFIED.
- SUPPLY 75mm OF NATURAL COLOUR CEDAR BARK MULCH OR ANGULAR ROCK MULCH TO ALL PROPOSED TREE AND SHRUB BEDS.
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**HOT DRY REVEGETATION NOTES:**

- THE PROPOSED SPECIES SELECTION IS BASED ON COLLABORATION WITH SPLATSIN CULTURAL AND INDIGENOUS PLANT KNOWLEDGE KEEPERS. NO SUBSTITUTIONS WITHOUT THE WRITTEN CONSENT OF THE SPLATSIN REPRESENTATIVE AND LANDSCAPE ARCHITECT.
- BLEND SEAMLESSLY INTO EXISTING NATIVE VEGETATION - SUPPLY AND INSTALL SIMILAR NATIVE SPECIES WHERE POSSIBLE/PRACTICAL.
- SOURCE NATIVE PLANT MATERIAL AS LOCALLY AS POSSIBLE/PRACTICAL.

**LOAM:** NATURAL, FERTILE, FRIABLE, AGRICULTURAL SOIL MEETING FOLLOWING REQUIREMENTS:

- NOT LESS THAN 6% ORGANIC MATERIAL
- PH VALUE RANGING FROM 5.9 TO 7.0
- NON-TOXIC TO PLANT GROWTH
- E.C. - SALINITY READING NOT EXCEEDING 1.5
- SOIL TEXTURE: LOAM SOIL AS DEFINED BY CANADIAN SYSTEM OF SOIL CLASSIFICATION.

**PEAT MOSS:** DECOMPOSED PLANT MATERIAL, FAIRLY ELASTIC AND HOMOGENEOUS, FREE OF DECOMPOSED COLLOIDAL RESIDUE, WOOD, SULPHUR, AND IRON. MINIMUM OF 80% ORGANIC MATTER BY MASS; PH VALUE BETWEEN 4.5 AND 6.0.

**PROJECT:**  
**SHUSWAP NORTH OKANAGAN RAIL TRAIL BASELINE TREATMENTS**

**LOCATION:**  
SICAMOUS - ENDERBY, BC

**KEY MAP:**

**CLIENTS:**

**LANDSCAPE ARCHITECT:**

**STAMP:**

**ORIGINAL SHEET SIZE ARCH D 24X36**  
0 2.5 7.5 12.5m  
SCALE 1:250

**ISSUED FOR: TENDER**

**DATE: 2024-11-19**  
**NOT FOR CONSTRUCTION**

REVISIONS:	NO.	DESCRIPTION	DATE	BY:
1.	SPLATSIN ENGAGEMENT	2023-02-03	ELUJ	
2.	COMMITTEE REVIEW	2024-07-30	JJ	
3.	ISSUED FOR TENDER	2024-11-19	JJ	

**DESIGNED BY: JJ**

**DRAWING TITLE:**  
**REVEGETATION PLAN**  
**HOT DRY AGRICULTURAL**  
**BASELINE CONCEPT**  
**L-1.0**



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**LEGEND**

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- EXISTING TREES AND VEGETATION TO REMAIN - PROTECT IN PLACE
- PROPOSED VEGETATION REFER TO PLANT SCHEDULE
- PROPOSED RECLAMATION SEED MIX AREAS - 150mm TOPSOIL AND HYDROSEED - REFER TO L2.0 QTY: 2,850 m<sup>2</sup> (30,700 ft<sup>2</sup>) APPLY TACKIFIER OR BIODEGRADABLE EROSION CONTROL MATTING ON ANY SLOPES EXCEEDING 3:1

**GENERAL NOTES:**

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**SHUSWAP NORTH OKANAGAN RAIL TRAIL BASELINE TREATMENTS**

**LOCATION:**  
SICAMOUS - ENDERBY, BC

**KEY MAP:**

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**LANDSCAPE ARCHITECT**

**STAMP**

ORIGINAL SHEET SIZE ARCH D 24X36

NORTH  
SCALE 1:250

**ISSUED FOR: TENDER**

**DATE: 2024-11-19**

**NOT FOR CONSTRUCTION**

REVISIONS:	NO.	DESCRIPTION	DATE	BY:
1.	SPLATSIN ENGAGEMENT	2023-02-03	ELUJJ	
2.	COMMITTEE REVIEW	2024-07-30	JJ	
3.	ISSUED FOR TENDER	2024-11-19	JJ	

**DESIGNED BY: JJ**








**DRAWING TITLE:**  
**REVEGETATION PLAN  
HOT DRY AGRICULTURAL  
BASELINE CONCEPT**












**L-1.1**





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PLANT SCHEDULE HOT DRY PLANT TYPOLOGY PER 500 - 1000 METERS

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	QTY
TREES						
	BET PAP	Betula papyrifera / Paper Birch	-	60mm		1
	FRA PRA	Fraxinus pennsylvanica 'Prairie Spire' / Prairie Spire Ash	-	60mm		9
	MAL HON	Malus domestica / Apple	-	50mm		2
	PIN PON	Pinus ponderosa / Ponderosa Pine	-		2.0m HT.	3
	POP SAR	Populus sargentii / Plains Cottonwood	-	60mm		3
	POP TRE	Populus tremuloides / Trembling Aspen	-	60mm		9
	PRU SPP	Prunus domestica / Local Variety Plum	-	50mm		1

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT		QTY
SHRUBS					
	ACE GLA	Acer glabrum / Rocky Mountain Maple	#5 CONT.		5
	AME SER	Amelanchier alnifolia / Saskatoon	#2 CONT.		10
	COR RE5	Cornus sericea / Red Osier Dogwood	#2 CONT.		9
	MAH AQU	Mahonia aquifolium / Oregon Grape	#2 CONT.		14
	PHI BLI	Philadelphus lewisii 'Blizzard' / Blizzard Mockorange	#5 CONT.		6
	PHY COP	Physocarpus opulifolius / Indigenous Ninebark	#5 CONT.		5
	ROS COM	Rosa acicularis / Prickly Rose	#2 CONT.		3
	ROS NUT	Rosa nutkana / Nootka Rose	#2 CONT.		9
	SAL PUR	Salix purpurea `Nana` / Dwarf Arctic Willow	#2 CONT.		5
	SHE ARG	Shepherdia argentea / Silver Buffaloberry	#2 CONT.		5
	VIB AM2	Viburnum trilobum / Indigenous Highbush Cranberrybush	#2 CONT.		2

	PROPOSED HOT DRY SITE RECLAMATION SEED MIX
	TIPI MOUNTAIN NATIVE RECLAMATION GRASS SEED MIX TO BE HYDROSEEDED WITH TACKIFIER AT 200 KG/HECTARE, FERTILIZER AT 250KG/HECTARE.
	ALTERNATIVE MIX OR APPROVED EQUIVALENT:
	REVEGETATION MIX BY TOP CROP CRANBROOK ITEM# FRXT6108

LEGEND

-  EXISTING LOT LINES, UTILITIES, UNDERGROUND SERVICES PER CSRD DATA
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- GROWING MEDIUM SHOULD BE CERTIFIED TO IT'S ORIGIN AND VIRTUALLY FREE OF INVASIVE PLANT SEEDS, THEIR REPRODUCTIVE PARTS AND ROOTS, BUILDING MATERIALS, INVASIVE OR NOXIOUS PLANTS, NON COMPOSTED WOOD, WOOD WASTE, INSECT PESTS, PLANT PATHOGENIC ORGANISMS, CHEMICAL POLLUTANTS OR SUBSTANCES AT LEVELS TOXIC TO PLANTS, AND OTHER EXTRANEIOUS MATERIALS THAT DETRACT FROM DESIRABLE PHYSICAL AND CHEMICAL PROPERTIES REQUIRED FOR LANDSCAPING PURPOSES.
- LOAM: NATURAL, FERTILE, FRIABLE, AGRICULTURAL SOIL MEETING FOLLOWING REQUIREMENTS:
  - NOT LESS THAN 6% ORGANIC MATERIAL.
  - PH VALUE RANGING FROM 5.9 TO 7.0.
  - NON-TOXIC TO PLANT GROWTH.
  - E.C. - SALINITY READING NOT EXCEEDING 1.5.
  - SOIL TEXTURE: LOAM SOIL AS DEFINED BY CANADIAN SYSTEM OF SOIL CLASSIFICATION.
- PEAT MOSS: DECOMPOSED PLANT MATERIAL, FAIRLY ELASTIC AND HOMOGENEOUS, FREE OF DECOMPOSED COLLOIDAL RESIDUE, WOOD, SULPHUR, AND IRON, MINIMUM OF 80% ORGANIC MATTER BY MASS; PH VALUE BETWEEN 4.5 AND 6.0.

PROJECT:

**SHUSWAP NORTH OKANAGAN RAIL TRAIL BASELINE TREATMENTS**

LOCATION:

SICAMOUS - ENDERBY, BC

KEY MAP:



CLIENTS:



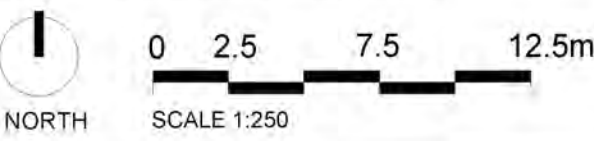
LANDSCAPE ARCHITECT



STAMP



ORIGINAL SHEET SIZE ARCH D 24X36



ISSUED FOR: TENDER

DATE: 2024-11-19

**NOT FOR CONSTRUCTION**

REVISIONS:	NO.	DESCRIPTION:	DATE:	BY:
	1.	SPLATSHIN ENGAGEMENT	2023-02-03	ELJJ
	2.	COMMITTEE REVIEW	2024-07-30	JJ
	3.	ISSUED FOR TENDER	2024-11-19	JJ

DESIGNED BY: JJ

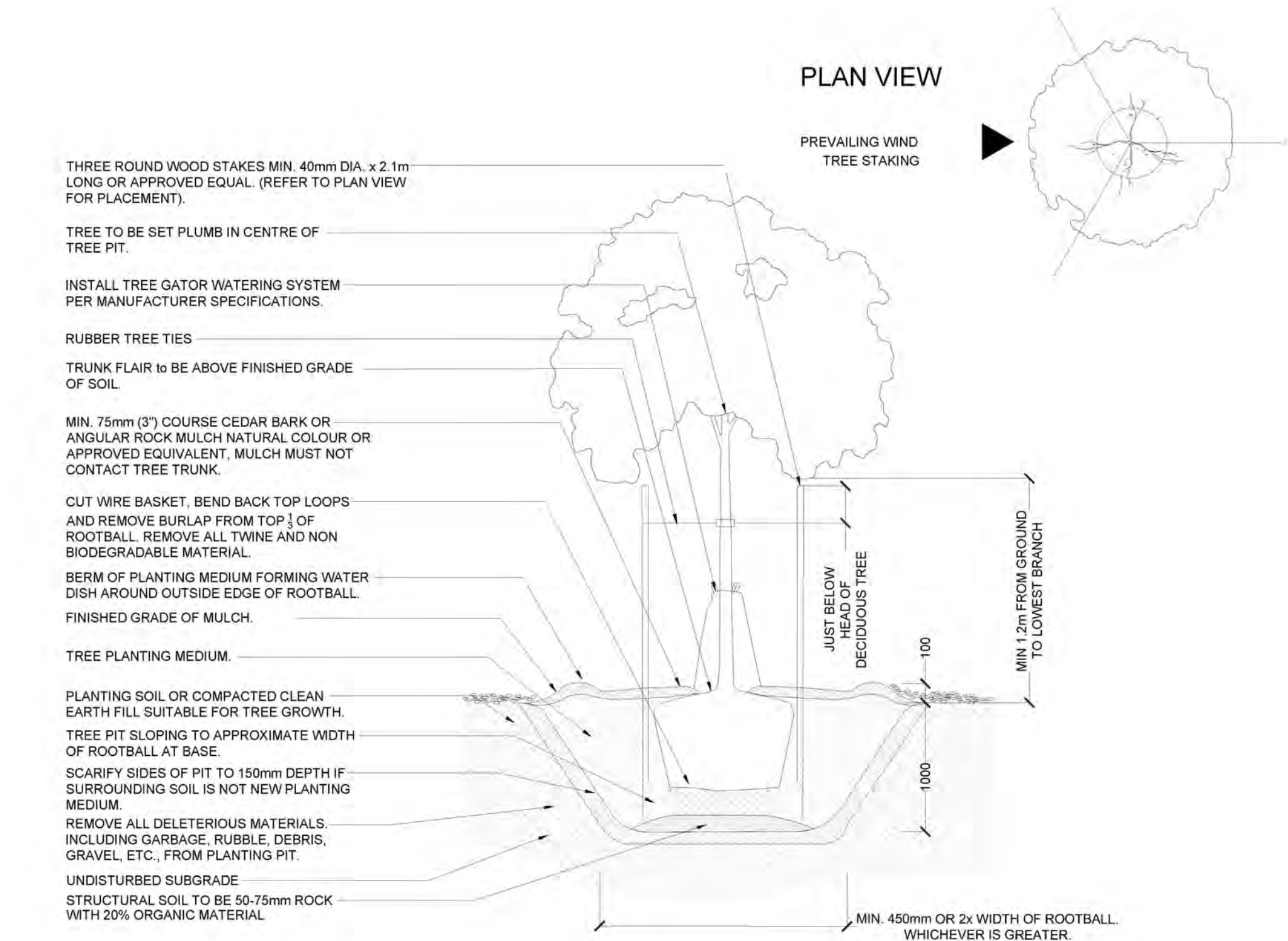
DRAWING TITLE :

**REVEGETATION PLAN  
HOT DRY AGRICULTURAL  
PLANT TYPOLOGY**

**L-1.2**



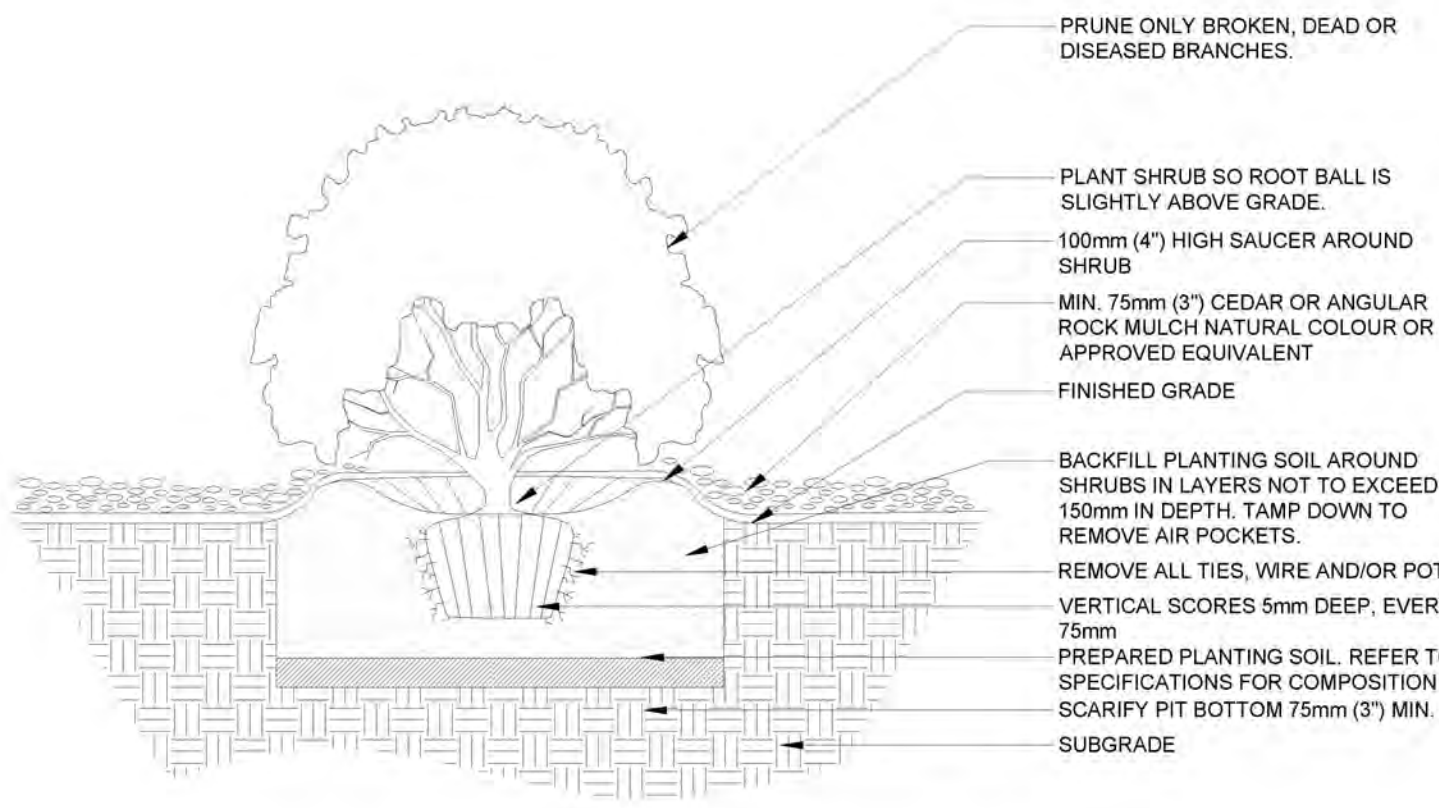
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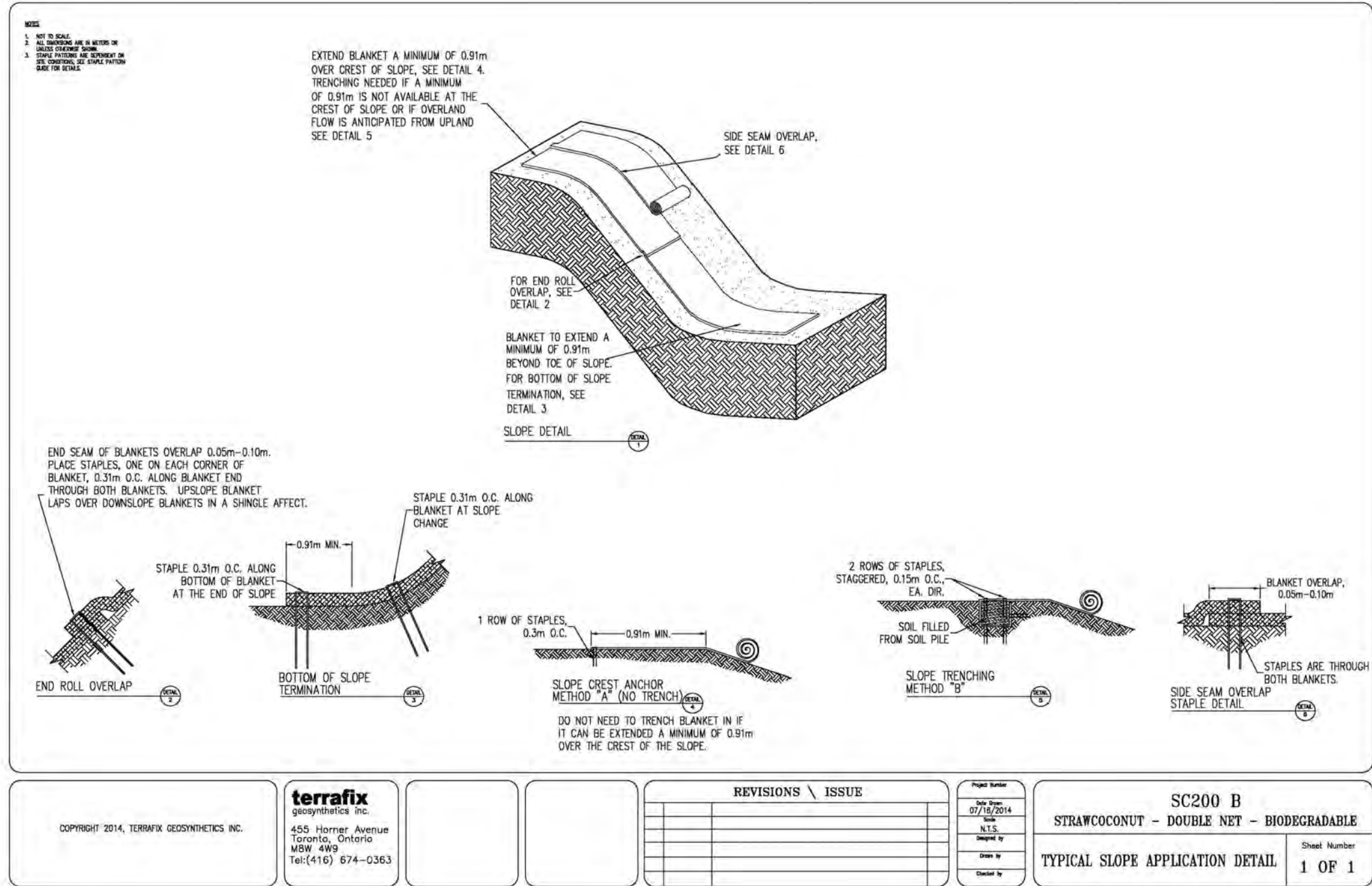
NOTES:

1. WATER THOROUGHLY AFTER INSTALLATION.
2. INSTALL TREE STAKES IF REQUIRED BY CLIENT.
3. REMOVE TREE RINGS AND STAKES TWO YEARS AFTER INSTALLATION.
4. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
5. POSITION CROWN OF ROOT BALL 50mm ABOVE FINISHED GRADE TO ALLOW FOR SETTLEMENT.
6. DEPTH OF ROOTBALL TO MATCH ORIGINAL ROOTBALL DEPTH ESTABLISHED IN THE NURSERY. ANY TREES PLANTED TOO LOW WILL BE RAISED AT THE CONTRACTOR'S EXPENSE.
7. DO NOT DAMAGE OR CUT LEADER.
8. IF STAKING IS DEEMED NECESSARY REFER TO TREE STAKING DETAIL.
9. DO NOT WRAP TRUNK.
10. INSTALL TREE GATOR WATERING SYSTEM PER MANUFACTURER SPECIFICATIONS.
11. ALL TREE AND SHRUB PLANTING TO MEET THE CANADIAN LANDSCAPE STANDARD SPECIFICATIONS, CURRENT EDITION.

1 TREE PLANTING DETAIL  
L1.3 1:30



2 SHRUB PLANTING DETAIL  
L1.3 1:30



3 BIODEGRADABLE EROSION CONTROL MATTING INFORMATION  
L1.3 OR APPROVED EQUIVALENT

PRODUCT SPECIFICATIONS

Filtrex SiltSoxx® NATURAL ORIGINAL

PURPOSE & DESCRIPTION

Filtrex SiltSoxx NATURAL ORIGINAL is a pre-filled compost filter sock comprised of mesh material and certified FilterMedia™. Filtrex SiltSoxx NATURAL ORIGINAL mesh is 100% natural and biodegradable, eliminating the need for field removal. Leave in place for ongoing, natural protection.

APPLICATIONS

- Perimeter Control
- Inlet Protection
- Check Dams
- Slope Interruption

FOR ADDITIONAL INFORMATION

Refer to the [Filtrex Catalog](#) for full item listings.

Refer to [Filtrex Design Specifications](#) for complete application, design, installation, maintenance, and removal documentation at [www.filtrex.com/specs](http://www.filtrex.com/specs)

FIELD APPLICATION PHOTO REFERENCES



Filtrex SiltSoxx NATURAL ORIGINAL used as Slope Interruption.

Filtrex SiltSoxx is in compliance with most state & federal agencies including:



Filtrex SiltSoxx NATURAL ORIGINAL Specifications:

Product Name	Filtrex SiltSoxx NATURAL ORIGINAL
Mesh Material Type	All Natural Biodegradable Cotton Fiber
Uses	leave on site; short-term
Mesh Opening Size	1/8"
Diameters	5", 8", 12"
Functional Longevity/Project Duration¹	up to 12 mo
Tensile Strength (ASTM D4595)²	MD: 193 lbs TD: 158 lbs
Fill Material	Locally sourced FilterMedia
Mesh Color	beige
Mesh Sample	
FilterMedia Sample	

¹Functional longevity ranges are estimates only. Site specific environmental conditions may result in significantly shorter or longer time periods.  
²Tensile Strength is based on 12" diameter using ASTM D4595. See Filtrex TechLink #3343 for full tensile strength testing.

LEGEND

- EXISTING LOT LINES, UTILITIES, UNDERGROUND SERVICES PER CSRD DATA
- EXISTING TREES TO REMAIN - PROTECT IN PLACE
- PROPOSED VEGETATION REFER TO PLANT SCHEDULE

GENERAL NOTES:

1. CONTRACTOR TO LOCATE AND PROTECT ALL EXISTING UTILITIES AND SERVICES, BC ONE CALL 1-800-474-6886.
  2. ALL WORK AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE CITY OF SICAMOUS CONSTRUCTION STANDARDS, AND THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD) REQUIREMENTS.
  3. CONTRACTOR SHALL VERIFY SITE CONDITIONS PRIOR TO DEMOLITION OR CONSTRUCTION.
  4. CONTRACTOR TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO ENGINEER OR LANDSCAPE ARCHITECT. PROPERTY LINES TO BE VERIFIED PRIOR TO CONSTRUCTION.
  5. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE STAGING OF CONSTRUCTION ACTIVITIES AND WORK WITH ALL OTHER CONTRACTORS ONSITE, INCLUDING SLEEVING AND WEEPING TILE DOWNSPOUT LOCATIONS PRIOR TO HARDSCAPE /SOFTSCAPE INSTALLATION.
  6. THE LANDSCAPE ARCHITECT WILL BE NOTIFIED MIN. 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
  7. THE QUANTITIES LISTED ARE ESTIMATES. CONTRACTOR TO VERIFY ALL QUANTITIES THROUGH SITE SURVEY AND REPORT ANY DISCREPANCIES TO ENGINEER OR LANDSCAPE ARCHITECT.
  8. ANY CHANGES OR ALTERATIONS TO DRAWINGS SHALL BE APPROVED BY LANDSCAPE ARCHITECT.
  9. CONTRACTOR TO CONFIRM ELEVATION, LOCATION, AND GRADIENT OF SURROUNDING GRADES AND PROVIDE A SMOOTH TRANSITION.
  10. CONTRACTOR TO BE REGISTERED WITH WORKSAFE BC.
- PLANTING NOTES:
1. REFER TO PLANT SCHEDULE FOR DETAILED SPECIES INFORMATION. NO PLANT SUBSTITUTIONS ARE PERMITTED WITHOUT WRITTEN APPROVAL BY LANDSCAPE ARCHITECT.
  2. CONFINE EQUIPMENT AND WORKERS TO LIMIT OF DISTURBANCE WITHIN PROJECT BOUNDARY.
  3. MINIMUM 150mm OF TOPSOIL AND SEED MIX TO BE PLANTED ADJACENT TO DISTURBED AREAS AND OTHER AREAS OF NEW CONSTRUCTION.
  4. PLANT MATERIAL SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITION OF THE CANADIAN NURSERY TRADES ASSOCIATION GUIDE SPECIFICATIONS FOR NURSERY STOCK UNLESS OTHERWISE SPECIFIED.
  5. SUPPLY 75mm OF NATURAL COLOUR CEDAR BARK MULCH OR ANGULAR ROCK MULCH TO ALL PROPOSED TREE AND SHRUB BEDS.
  6. INSTALL TREE GATOR BAG - SLOW RELEASE WATERING SYSTEM (OR APPROVED EQUIVALENT) ON ALL PROPOSED DECIDUOUS TREES AND TREE GATOR JR. PRO LOW PROFILE - SLOW RELEASE WATERING SYSTEM (OR APPROVED EQUIVALENT) ON ALL PROPOSED CONIFEROUS TREES.
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PROJECT:

SHUSWAP NORTH OKANAGAN RAIL TRAIL BASELINE TREATMENTS

LOCATION:

SICAMOUS - ENDERBY, BC

KEY MAP:



CLIENTS:



LANDSCAPE ARCHITECT



STAMP



ORIGINAL SHEET SIZE ARCH D 24X36

0 15 45 75m  
SCALE 1:1500

ISSUED FOR: TENDER

DATE: 2024-11-19

NOT FOR CONSTRUCTION

REVISIONS:	NO.	DESCRIPTION	DATE	BY
1.	SPLATINA ENGAGEMENT		2023-02-03	ELJJ
2.	COMMITTEE REVIEW		2024-07-30	JJ
3.	ISSUED FOR TENDER		2024-11-19	JJ

DESIGNED BY: JJ

DRAWING TITLE :

LANDSCAPE DETAILS

L-1.3



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#### ARCHEOLOGICAL RESOURCE PROTECTION NOTES:

1. THE PROPOSED ARCH PROTECTION LOCATION AND ACCESS ROUTE IS THEORETICAL AS NO ARCH LOCATIONS WERE PROVIDED DURING DESIGN.
2. SURVEY, CONTRACTOR, PROJECT ENGINEER TO WORK CLOSELY WITH ARCHEOLOGIST TO ENSURE ARCHEOLOGICAL SITES ARE LOCATED, NOT DISTURBED, AND ARE SUITABLY PROTECTED.
3. PLANT LOCATIONS TO BE ADAPTED AS REQUIRED TO FIELD CONDITIONS. COORDINATE WITH LANDSCAPE ARCHITECT WITH FINAL PLACEMENT.

#### RIPARIAN RESTORATION NOTES:

1. RIPARIAN SEED MIX PER MASSE ENVIRONMENTAL RIPARIAN ASSESSMENT REPORT.
2. SITE SELECTION FOR RIPARIAN IMPROVEMENTS AND LIVE STAKING TO BE UNDERTAKEN ON A SITE BY SITE BASIS BY QUALIFIED PROFESSIONALS AND FIRST NATIONS REPRESENTATIVES.
3. REFER TO LIVE STAKING DETAIL AND SPACING.
4. PROPOSED RIPARIAN IMPROVEMENTS AREA - INSTALL PREPARED LIVE STAKES/CUTTINGS OF LOCAL INDIGENOUS WILLOW, RED OSIER DOGWOOD CUTTINGS, AND COTTONWOOD.

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#### LEGEND

- EXISTING LOT LINES, UTILITIES, UNDERGROUND SERVICES PER CSRD DATA
- EXISTING TREES AND VEGETATION TO REMAIN - PROTECT IN PLACE
- PROPOSED VEGETATION REFER TO PLANT SCHEDULE
- PROPOSED RECLAMATION/RIPARIAN SEED MIX AREAS - 150mm TOPSOIL AND HYDROSEED - APPLY TACKIFIER OR BIODEGRADABLE EROSION CONTROL MATTING ON ANY SLOPES EXCEEDING 3:1

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#### PROJECT:

### SHUSWAP NORTH OKANAGAN RAIL TRAIL BASELINE TREATMENTS

#### LOCATION:

SICAMOUS - ENDERBY, BC

#### KEY MAP:



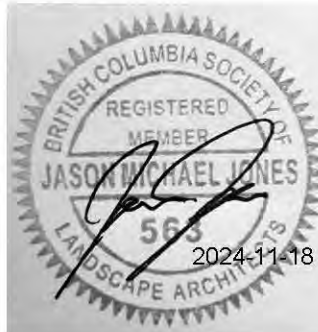
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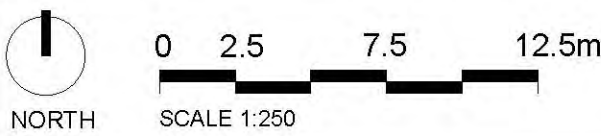
#### LANDSCAPE ARCHITECT



#### STAMP



ORIGINAL SHEET SIZE ARCH D 24X36



ISSUED FOR: TENDER

DATE: 2024-11-19

NOT FOR CONSTRUCTION

REVISIONS:	NO.	DESCRIPTION:	DATE:	BY:
1.	SPLATNIN ENGAGEMENT		2023-02-03	ELUJJ
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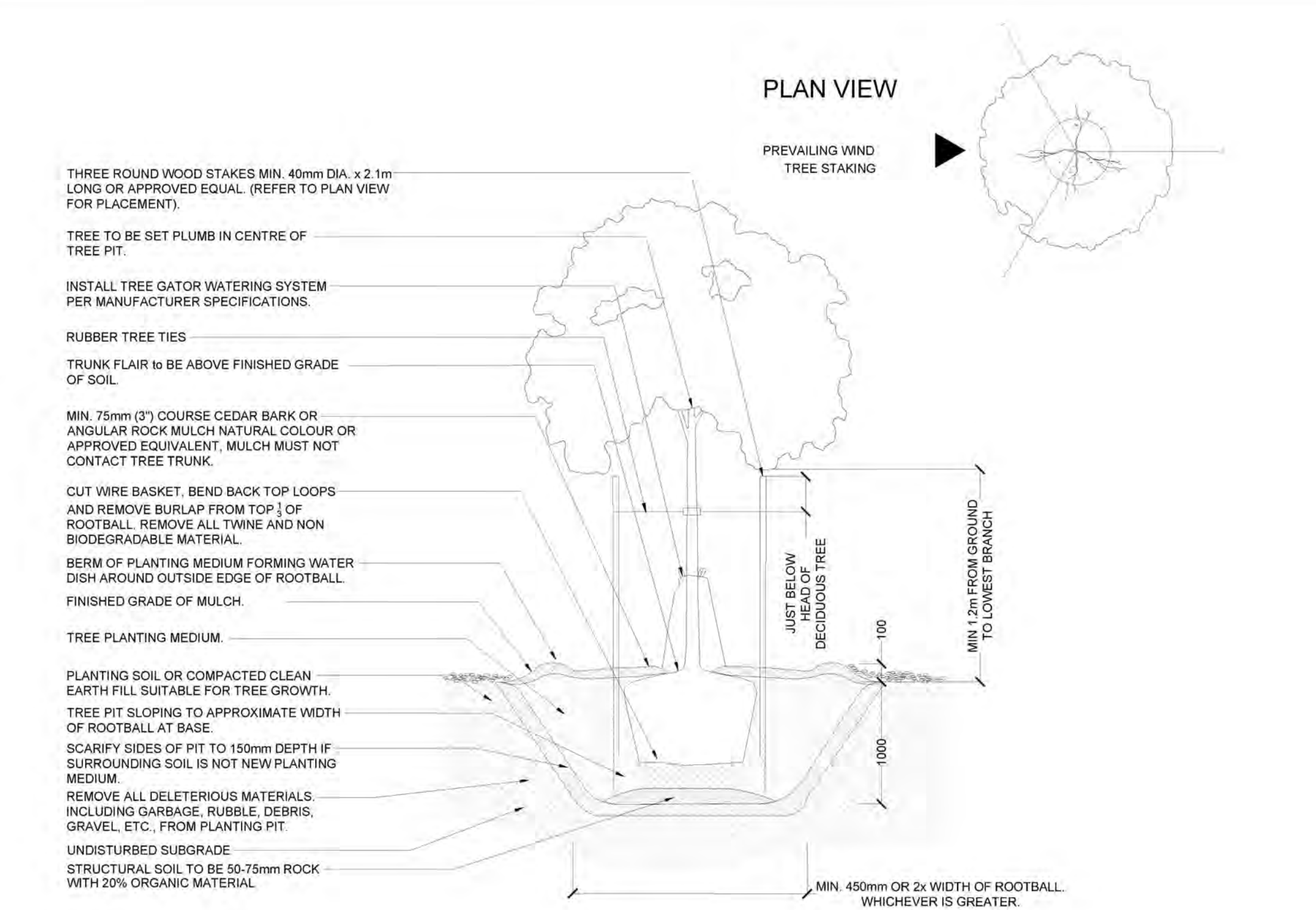
#### DRAWING TITLE:

REVEGETATION PLAN  
PROTECTION OF ARCH  
RESOURCES

L-2.0



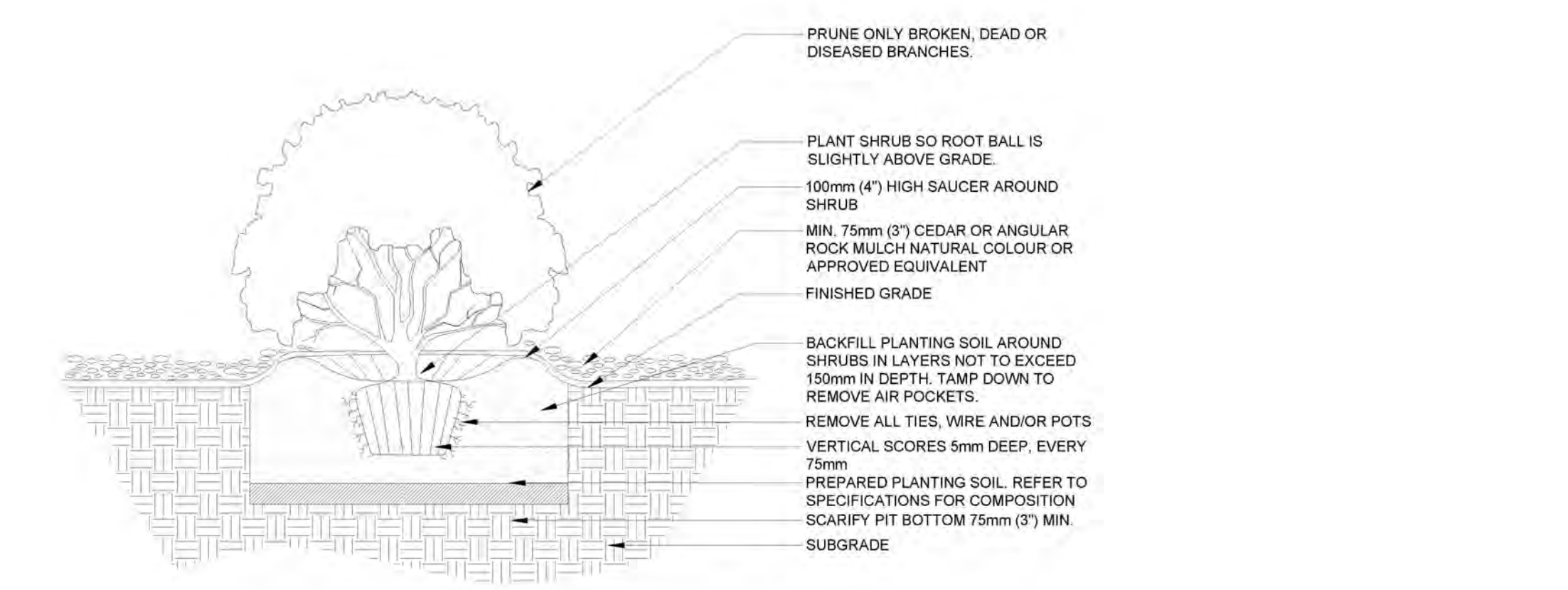
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- NOTES:
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  2. INSTALL TREE STAKES IF REQUIRED BY CLIENT.
  3. REMOVE TREE RINGS AND STAKES TWO YEARS AFTER INSTALLATION.
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  5. POSITION CROWN OF ROOT BALL 50mm ABOVE FINISHED GRADE TO ALLOW FOR SETTLEMENT.
  6. DEPTH OF ROOTBALL TO MATCH ORIGINAL ROOTBALL DEPTH ESTABLISHED IN THE NURSERY. ANY TREES PLANTED TOO LOW WILL BE RAISED AT THE CONTRACTOR'S EXPENSE.
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  8. IF STAKING IS DEEMED NECESSARY REFER TO TREE STAKING DETAIL.
  9. DO NOT WRAP TRUNK.
  10. INSTALL TREE GATOR WATERING SYSTEM PER MANUFACTURER SPECIFICATIONS.
  11. ALL TREE AND SHRUB PLANTING TO MEET THE CANADIAN LANDSCAPE STANDARD SPECIFICATIONS, CURRENT EDITION.

## 1 TREE PLANTING DETAIL

L2.1 1:30



## 2 SHRUB PLANTING DETAIL

L2.1 1:30

### PLANT SCHEDULE RIPARIAN PROTECTION PER 500 - 1000 METERS

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	QTY
TREES						
	BET PAP	Betula papyrifera / Paper Birch	-	60mm		4
	PIN PON	Pinus ponderosa / Ponderosa Pine	-		2.0m HT.	1
	POP TRE	Populus tremuloides / Trembling Aspen	-	60mm		3
	POP TRI	Populus trichocarpa / Black Cottonwood	2.0m HT.			4
SHRUBS						
	ACE GLA	Acer glabrum / Rocky Mountain Maple	#5 CONT.			5
	AME SER	Amelanchier alnifolia / Saskatoon	#2 CONT.			18
	COR RE5	Cornus sericea / Red Osier Dogwood	#2 CONT.			12
	OPL HOR	Oplopanax horridus / Devil's Club	#2 CONT.			26
	PHI BLI	Philadelphus lewisii 'Blizzard' / Blizzard Mockorange	#5 CONT.			3
	RIB OXY	Ribes oxycanthoides / Northern Gooseberry	#2 CONT.			17
	ROS COM	Rosa acicularis / Prickly Rose	#2 CONT.			11
	SAL PUR	Salix purpurea 'Nana' / Dwarf Arctic Willow	#2 CONT.			9
	SHE ARG	Shepherdia argentea / Silver Buffaloberry	#2 CONT.			3
	VIB AM2	Viburnum trilobum / Indigenous Highbush Cranberrybush	#2 CONT.			3

PROPOSED NATIVE RECLAMATION SEED MIX

TIPi MOUNTAIN NATIVE RECLAMATION GRASS SEED MIX TO BE HYDROSEEDDED WITH TACKIFIER AT 200 KG/HECTARE, FERTILIZER AT 250KG/HECTARE.

ALTERNATIVE MIX OR APPROVED EQUIVALENT:

REVEGETATION MIX BY TOP CROP CRANBROOK  
ITEM# FRXT6108

PROPOSED NATIVE RIPARIAN SEED MIX WITH LIVE STAKING

- SOURCE LIVE STAKES AS LOCALLY AS POSSIBLE.
- LIVE STAKES MUST BE HARVESTED AND PLANTED DURING DORMANT PERIOD (OCTOBER - MARCH).
- MAKE PILOT HOLE IN GROUND USING IRON STAKE OR BAR BEFORE PLANTING LIVE STAKE.
- PLANT STAKES WITH BUTT END IN GROUND AND BUDS OR LEAF BUD SCARS POINTING UP.
- TAKE CARE NOT TO DAMAGE BUDS, STRIP BARK OR SPLIT STAKE DURING PLANTING.
- STAKES SHALL BE SPACED RANDOMLY AT A MINIMUM RATE OF 6 STAKES PER m2 IN AREAS IDENTIFIED AS APPROPRIATE.
- STAKES SHALL BE 300MM (12") IN LENGTH AND EMBEDDED TO 80% OF STAKE LENGTH.
- AT LEAST 2 BUDS AND/OR LEAF BUD SCARS SHALL BE VISIBLE ABOVE GROUND AFTER PLANTING.
- TRIM STAKE MAKING A DIAGONAL CUT AT TOP OF STAKE JUST ABOVE TOP BUD AND A HORIZONTAL CUT AT BOTTOM OF STAKE JUST BELOW BOTTOM BUD.

LEGEND

- EXISTING LOT LINES, UTILITIES, UNDERGROUND SERVICES PER CSRD DATA
- EXISTING TREES AND VEGETATION TO REMAIN - PROTECT IN PLACE
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3. MINIMUM 150mm OF TOPSOIL AND SEED MIX TO BE PLANTED ADJACENT TO DISTURBED AREAS AND OTHER AREAS OF NEW CONSTRUCTION.
4. PLANT MATERIAL SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITION OF THE CANADIAN NURSERY TRADES ASSOCIATION GUIDE SPECIFICATIONS FOR NURSERY STOCK UNLESS OTHERWISE SPECIFIED.
5. SUPPLY 75mm OF NATURAL COLOUR CEDAR BARK MULCH OR ANGULAR ROCK MULCH TO ALL PROPOSED TREE AND SHRUB BEDS.
6. INSTALL TREE GATOR BAG - SLOW RELEASE WATERING SYSTEM (OR APPROVED EQUIVALENT) ON ALL PROPOSED DECIDUOUS TREES AND TREE GATOR JR. PRO LOW PROFILE - SLOW RELEASE WATERING SYSTEM (OR APPROVED EQUIVALENT) ON ALL PROPOSED CONIFEROUS TREES.
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TOPSOIL NOTES:

1. GROWING MEDIUM FOR ALL TREE, SHRUB, ANDPERENNIAL BEDS IS TO MEET THE CANADIAN LANDSCAPE SPECIFICATION UNDER THE DESIGNATION 2P.
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LOAM: NATURAL, FERTILE, FRIABLE, AGRICULTURAL SOIL MEETING FOLLOWING REQUIREMENTS:

- NOT LESS THAN 6% ORGANIC MATERIAL.
- PH VALUE RANGING FROM 5.9 TO 7.0.
- NON-TOXIC TO PLANT GROWTH.
- E.C. - SALINITY READING NOT EXCEEDING 1.5.
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PEAT MOSS: DECOMPOSED PLANT MATERIAL, FAIRLY ELASTIC AND HOMOGENEOUS, FREE OF DECOMPOSED COLLOIDAL RESIDUE, WOOD, SULPHUR, AND IRON, MINIMUM OF 80% ORGANIC MATTER BY MASS; PH VALUE BETWEEN 4.5 AND 6.0.

PROJECT: SHUSWAP NORTH OKANAGAN RAIL TRAIL BASELINE TREATMENTS

LOCATION: SICA MOUS - ENDERBY, BC

KEY MAP:

CLIENTS:

CSRD

COLUMBIA SHUSWAP REGIONAL DISTRICT

REGIONAL DISTRICT NORTH OKANAGAN

LANDSCAPE ARCHITECT

STAMP

ORIGINAL SHEET SIZE ARCH D 24X36

0 2.5 7.5 12.5m

NORTH SCALE 1:250

ISSUED FOR: TENDER

DATE: 2024-11-19

NOT FOR CONSTRUCTION

REVISIONS:	NO.	DESCRIPTION:	DATE:	BY:
1.	SPLAT'SIN ENGAGEMENT		2023-02-03	ELJ/JJ
2.	COMMITTEE REVIEW		2024-07-30	JJ
3.	ISSUED FOR TENDER		2024-11-19	JJ

DESIGNED BY: JJ

DRAWING TITLE : REVEGETATION PLAN ARCH + RIPARIAN RESOURCES

L-2.1







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PROJECT:

## SHUSWAP NORTH OKANAGAN RAIL TRAIL BASELINE TREATMENTS

LOCATION:

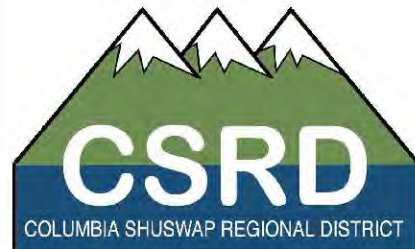
SICAMOUS - ENDERBY, BC

KEY MAP:



NORTH

CLIENTS:



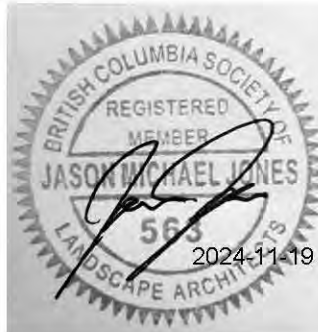
LANDSCAPE ARCHITECT



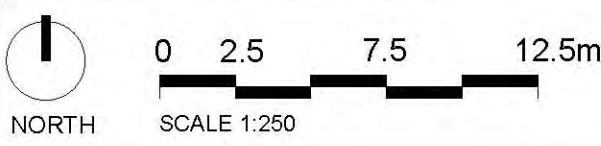
GOLDEN, BC

250.938.7337

STAMP



ORIGINAL SHEET SIZE ARCH D 24X36



ISSUED FOR: TENDER

DATE: 2024-11-19

NOT FOR CONSTRUCTION

REVISIONS:	NO.	DESCRIPTION	DATE	BY
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2.	COMMITTEE REVIEW		2024-07-30	JJ
3.	ISSUED FOR TENDER		2024-11-19	JJ

DESIGNED BY: JJ

DRAWING TITLE:  
REVEGETATION PLAN  
SEMI-WET SITES

L-3.0

1

L3.0

REVEGETATION GUIDELINES PLAN - BASELINE CONCEPT - SEMI-WET SEASONALLY INUNDATED SITES

1:250



NORTH



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PROJECT:

## SHUSWAP NORTH OKANAGAN RAIL TRAIL BASELINE TREATMENTS

LOCATION:

SICAMOUS - ENDERBY, BC

KEY MAP:



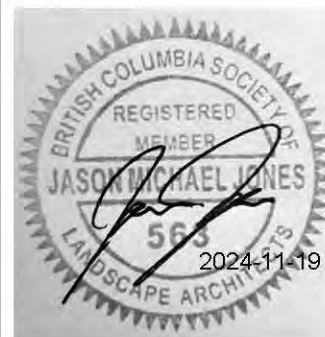
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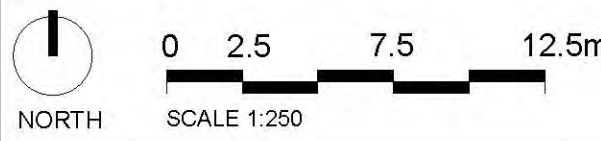
LANDSCAPE ARCHITECT



STAMP



ORIGINAL SHEET SIZE ARCH D 24X36



ISSUED FOR: TENDER

DATE: 2024-11-19

**NOT FOR CONSTRUCTION**

REVISIONS:	NO.	DESCRIPTION	DATE	BY
1.	SPLATSN ENGAGEMENT		2023-02-03	ELUJJ
2.	COMMITTEE REVIEW		2024-07-30	JJ
3.	ISSUED FOR TENDER		2024-11-19	JJ

DESIGNED BY: JJ

DRAWING TITLE:  
**REVEGETATION PLAN  
SEMI-WET SITES**

# L-3.1

1

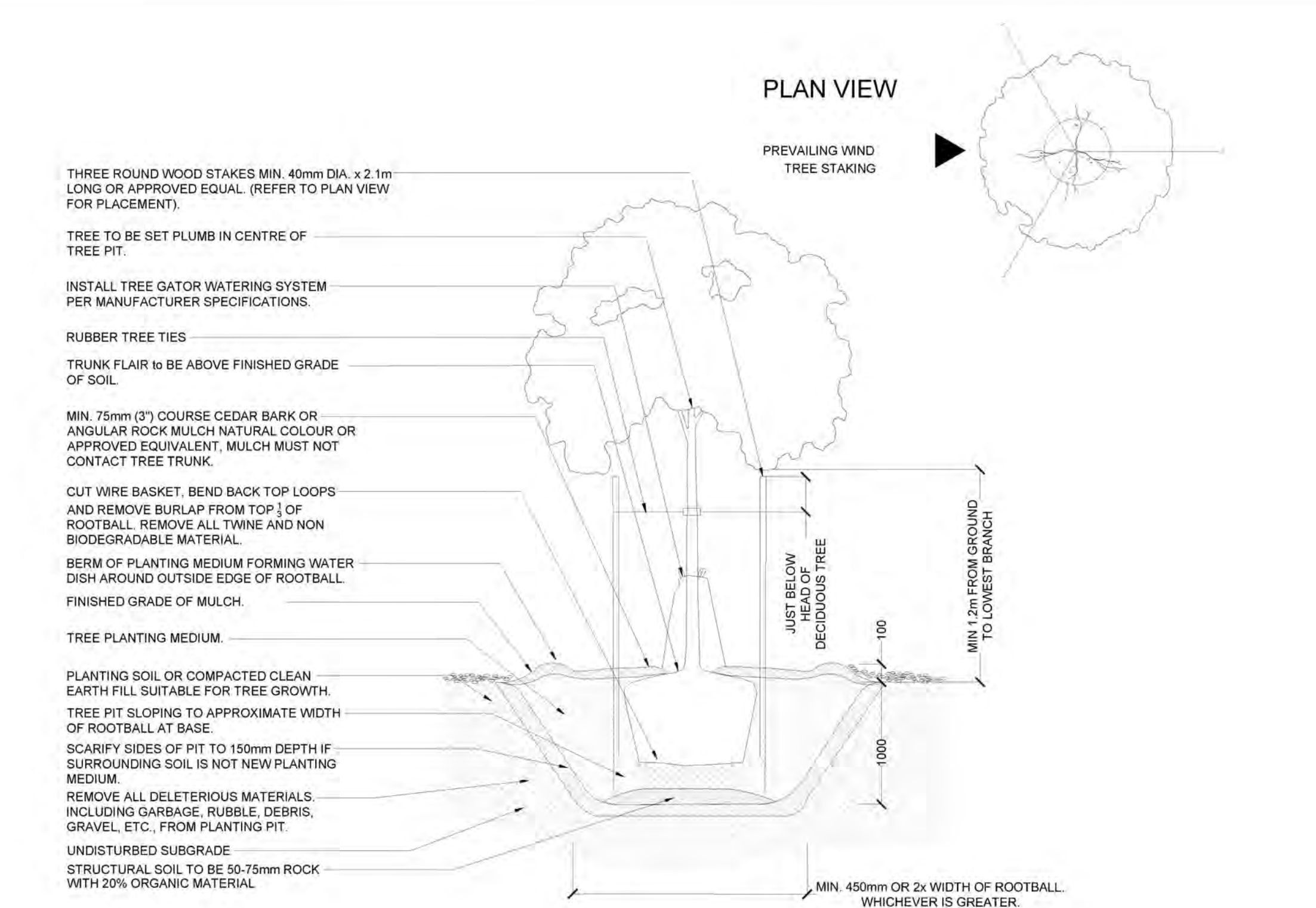
L3.1

REVEGETATION GUIDELINES PLAN - BASELINE CONCEPT - SEMI-WET SEASONALLY INUNDATED SITES

1:250



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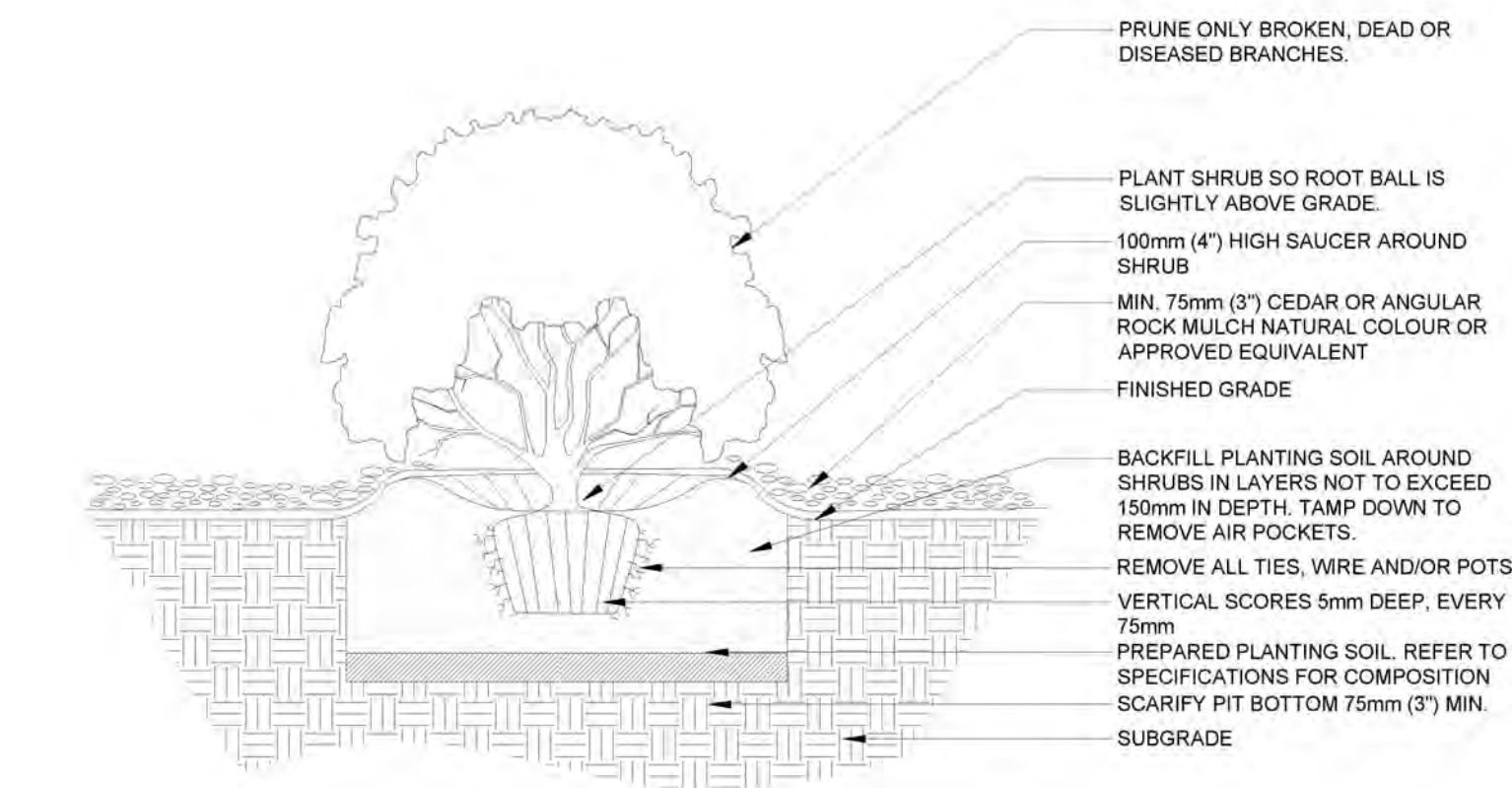


#### NOTES:

1. WATER THOROUGHLY AFTER INSTALLATION.
2. INSTALL TREE STAKES IF REQUIRED BY CLIENT.
3. REMOVE TREE RINGS AND STAKES TWO YEARS AFTER INSTALLATION.
4. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.
5. POSITION CROWN OF ROOT BALL 50mm ABOVE FINISHED GRADE TO ALLOW FOR SETTLEMENT.
6. DEPTH OF ROOTBALL TO MATCH ORIGINAL ROOTBALL DEPTH ESTABLISHED IN THE NURSERY. ANY TREES PLANTED TOO LOW WILL BE RAISED AT THE CONTRACTOR'S EXPENSE.
7. DO NOT DAMAGE OR CUT LEADER.
8. IF STAKING IS DEEMED NECESSARY REFER TO TREE STAKING DETAIL.
9. DO NOT WRAP TRUNK.
10. INSTALL TREE GATOR WATERING SYSTEM PER MANUFACTURER SPECIFICATIONS.
11. ALL TREE AND SHRUB PLANTING TO MEET THE CANADIAN LANDSCAPE STANDARD SPECIFICATIONS, CURRENT EDITION.

## 1 TREE PLANTING DETAIL

L3.2 1:30



## 2 SHRUB PLANTING DETAIL

L3.2 1:30

### PLANT SCHEDULE SEMI-WET AREAS PER 500 - 1000 METERS

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	QTY
TREES						
	BET PAP	Betula papyrifera / Paper Birch	-	60mm		5
	PIN PON	Pinus ponderosa / Ponderosa Pine	-		2.0m HT.	7
	POP TRE	Populus tremuloides / Trembling Aspen	-	60mm		15
	POP TRI	Populus trichocarpa / Black Cottonwood	2.0m HT.			11
SHRUBS						
	ACE GLA	Acer glabrum / Rocky Mountain Maple	#5 CONT.			8
	AME SER	Amelanchier alnifolia / Saskatoon	#2 CONT.			13
	COR RE5	Cornus sericea / Red Osier Dogwood	#2 CONT.			34
	MAH AQU	Mahonia aquifolium / Oregon Grape	#2 CONT.			16
	PHI BLI	Philadelphus lewisii 'Blizzard' / Blizzard Mockorange	#5 CONT.			10
	ROS COM	Rosa acicularis / Prickly Rose	#2 CONT.			30
	ROS NUT	Rosa nutkana / Nootka Rose	#2 CONT.			25
	SAL PUR	Salix purpurea 'Nana' / Dwarf Arctic Willow	#2 CONT.			5
	SAM RED	Sambucus racemosa / Red Elderberry	#2 CONT.			4
	SCH TST	Schoenoplectus acutus occidentalis / IndigenousTule - Bull Rush	#1 CONT.			11
	SHE ARG	Shepherdia argentea / Silver Buffaloberry	#2 CONT.			3
	SPI BET	Spiraea betulifolia / Birch Leaf Spirea	#5 CONT.			5
	VIB AM2	Viburnum trilobum / Indigenous Highbush Cranberrybush	#2 CONT.			7

### PROPOSED HOT DRY SITE RECLAMATION SEED MIX

TIPI MOUNTAIN NATIVE RECLAMATION GRASS SEED MIX TO BE HYDROSEEDDED WITH TACKIFIER AT 200 KG/HECTARE, FERTILIZER AT 250KG/HECTARE.

ALTERNATIVE MIX OR APPROVED EQUIVALENT:

REVEGETATION MIX BY TOP CROP CRANBROOK ITEM# FRXT6108

#### LEGEND

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#### PROJECT:

### SHUSWAP NORTH OKANAGAN RAIL TRAIL BASELINE TREATMENTS

#### LOCATION:

SICAMOUS - ENDERBY, BC

#### KEY MAP:



NORTH

CLIENTS:



#### LANDSCAPE ARCHITECT



#### STAMP



ORIGINAL SHEET SIZE ARCH D 24X36

0 2.5 7.5 12.5m  
SCALE 1:250  
NORTH

ISSUED FOR: TENDER

DATE: 2024-11-19

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DESIGNED BY: JJ

DRAWING TITLE :  
REVEGETATION PLAN  
SEMI-WET SITES

L-3.2



Item / Description	Unit	Qty	Unit Cost	Total
1. CONTRACTOR USE OF SITE, SITE ACCESS, AND SITE SURVEY				
i. Contractor mobilization, establishment of site security fencing, secure staging compound, installation of stockpile areas, tree protection fencing, maintain temporary access routes, dust control, erosion and sediment control, safety signage, detours, and haul roads as required. Reinstatement of all areas, surfaces and utilities disturbed. Remove construction debris and demobilization. Contractor to submit location of staging area, stockpile location and sizes, haul routes to Client representatives and Landscape Architect for approval prior to mobilization.	l.sum	1		
			Sub-Total Section 1	
2. REVEGETATION + LANDSCAPE				
A. Trees				
i. Betula papyrifera / Paper Birch				
*Per Landscape drawings and specifications.	ea.	2		
ii. Fraxinus pennsylvanica `Prairie Spire` / Prairie Spire Ash				
*Per Landscape drawings and specifications.	ea.	9		
iii. Malus domestica / Local Acclimatized Apple Species				
*Per Landscape drawings and specifications.	ea.	2		
iv. Pinus ponderosa / Ponderosa Pine				
*Per Landscape drawings and specifications.	ea.	3		
v. Populus sargentii / Plains Cottonwood				
*Per Landscape drawings and specifications.	ea.	3		
vi. Populus tremuloides / Trembling Aspen				
*Per Landscape drawings and specifications.	ea.	9		
vii. Pseudotsuga menziesii / Douglas Fir				
*Per Landscape drawings and specifications.	ea.	3		



Item / Description	Unit	Qty	Unit Cost	Total
<b>B. Shrubs, Grasses, Perennials</b>				
i. Acer glabrum / Rocky Mountain Maple				
*Per Landscape drawings and specifications.	ea.	5		
ii. Amelanchier alnifolia / Saskatoon				
*Per Landscape drawings and specifications.	ea.	10		
iii. Cornus sericea / Red Osier Dogwood				
*Per Landscape drawings and specifications.	ea.	9		
iv. Mahonia aquifolium / Oregon Grape				
*Per Landscape drawings and specifications.	ea.	14		
v. Philadelphus lewisii `Blizzard` / Blizzard Mockorange				
*Per Landscape drawings and specifications.	ea.	6		
vi. Physocarpus opulifolius / Indigenous Ninebark				
*Per Landscape drawings and specifications.	ea.	5		
vii. Rosa acicularis / Prickly Rose				
*Per Landscape drawings and specifications.	ea.	3		
viii. Rosa nutkana / Nootka Rose				
*Per Landscape drawings and specifications.	ea.	9		
ix. Salix purpurea `Nana` / Dwarf Arctic Willow				
*Per Landscape drawings and specifications.	ea.	5		
x. Shepherdia argentea /Silver Buffaloberry				
*Per Landscape drawings and specifications.	ea.	5		
xi. Viburnum trilobum / Indigenous Highbush Cranberry				
*Per Landscape drawings and specifications.	ea.	2		



Item / Description	Unit	Qty	Unit Cost	Total
<b>C. Landscape Items</b>				
i. Feature Boulders				
<div>*Per Landscape drawings, spaced approximately every 200m.</div> <div>Supply and install local source feature boulders approx.</div> <div>1000mm L x 500mm H x 500mm W.</div>	ea.	5		
ii. Tree Gator Watering Bag (Deciduous Trees)				
<div>*Per Landscape drawings. Supply and install Gator Bag Pro or approved equivalent.</div>	e.a.	24		
iii. Tree Gator Jr. Watering Bag (Coniferous Trees)				
<div>*Per Landscape drawings. Supply and install Gator Bag Pro or approved equivalent.</div>	e.a.	6		
iv. Biodegradable Erosion Control Matting				
<div>*Supply and installation of 100% Biodegradable erosion control matting and wattles per specifications.</div>	sm.	100		
<b>D. Planting Medium - Topsoil</b>				
i. Planting Medium for Tree and Shrub Beds				
<div>*Supply and install screened topsoil to 1000mm depth per specifications including soil amendments per landscape drawings and specifications to all planting areas.</div>	cu.m	125		
ii. Topsoil for reclamation areas				
<div>*Supply and install screened topsoil to 150mm depth in reclamation seed mix areas.</div>	cu.m	415		
<b>E. Landscape Mulch</b>				
i. Bark Mulch				
<div>*Supply and installation of course natural colour cedar bark or non-flammable mulch per landscape drawings and specifications.</div>	sq.m	75		
Sub-Total Section 2				
<b>3. LANDSCAPE MAINTENANCE - 1 GROWING SEASON FROM SUBSTANTIAL COMPLETION</b>				
i. Landscape Maintenance				
<div>*Contractor to perform landscape maintenance, watering, and removal of noxious and invasive species per landscape drawings and specifications.</div>	l.sum	1		
Sub-Total Section 3				
Total				

NOTE:

\* Contractor is to ensure all items listed above are supplied, installed, and maintained in accordance with City of Enderby, District of Sicamous, and Development Guidelines & Standard Specifications and MMCD (Current Edition)

\* All quantities and areas are to be confirmed prior to construction



Shuswap North Okanagan Rail Trail: Baseline Treatments

Project #

Issued for Tender - Unit Price Schedule2024-11-19

PROTECTION OF ARCH RESOURCES / RIPARIAN SITE - PER BASELINE (500 - 1000m)

Sicamous - Enderby, BC V0E 1V0

Item / Description	Unit	Qty	Unit Cost	Total
1. CONTRACTOR USE OF SITE, SITE ACCESS, AND SITE SURVEY				
i. Contractor mobilization, establishment of site security fencing, secure staging compound, installation of stockpile areas, tree protection fencing, maintain temporary access routes, safety signage, detours, and haul roads as required. Reinstatement of all areas, surfaces and utilities disturbed. Remove construction debris and demobilization. Contractor to submit location of staging area, stockpile location and sizes, haul routes to Client representatives and Landscape Architect for approval prior to mobilization.	l.sum	1		
			Sub-Total Section 1	
2. REVEGETATION + LANDSCAPE				
A. Trees				
i. Betula papyrifera / Paper Birch				
*Per Landscape drawings and specifications.	ea.	4		
ii. Pinus ponderosa / Ponderosa Pine				
*Per Landscape drawings and specifications.	ea.	2		
iii. Populus tricarpa / Black Cottonwood				
*Per Landscape drawings and specifications.	ea.	3		
iv. Populus tremuloides / Trembling Aspen				
*Per Landscape drawings and specifications.	ea.	5		
v. Pseudotsuga menziesii / Douglas Fir				
*Per Landscape drawings and specifications.	ea.	1		



Shuswap North Okanagan Rail Trail: Baseline Treatments

Project #

Issued for Tender - Unit Price Schedule

2024-11-19

PROTECTION OF ARCH RESOURCES / RIPARIAN SITE - PER BASELINE (500 - 1000m)

Sicamous - Enderby, BC V0E 1V0

Item / Description	Unit	Qty	Unit Cost	Total
<b>B. Shrubs, Grasses, Perennials</b>				
i. Acer glabrum / Rocky Mountain Maple				
*Per Landscape drawings and specifications.	ea.	5		
ii. Amelanchier alnifolia / Saskatoon				
*Per Landscape drawings and specifications.	ea.	18		
iii. Cornus sericea / Red Osier Dogwood				
*Per Landscape drawings and specifications.	ea.	12		
iv. Oplopanax horridus / Devil's Club				
*Per Landscape drawings and specifications.	ea.	12		
v. Philadelphus lewisii `Blizzard` / Blizzard Mockorange				
*Per Landscape drawings and specifications.	ea.	5		
vi. Ribes oxycanthoides / Gooseberry				
*Per Landscape drawings and specifications.	ea.	7		
vii. Rosa acicularis / Prickly Rose				
*Per Landscape drawings and specifications.	ea.	17		
viii. Rosa nutkana / Nootka Rose				
*Per Landscape drawings and specifications.	ea.	9		
ix. Salix purpurea `Nana` / Dwarf Arctic Willow				
*Per Landscape drawings and specifications.	ea.	9		
x. Shepherdia argentea / Silver Buffaloberry				
*Per Landscape drawings and specifications.	ea.	9		
xi. Viburnum trilobum / Indigenous Highbush Cranberry				
*Per Landscape drawings and specifications.	ea.	3		
<b>C. RIPARIAN IMPROVEMENTS</b>				
i. Live staking				
*Site specific, requires fine scale study. Native, site appropriate live stake cuttings prepared, installed, and spaced per specifications.	sm.	750		
ii. Biodegradable Erosion Control Matting				
*Supply and installation of 100% Biodegradable erosion control matting and wattles per specifications.	sm.	750		



Shuswap North Okanagan Rail Trail: Baseline Treatments

Project #

Issued for Tender - Unit Price Schedule

2024-11-19

PROTECTION OF ARCH RESOURCES / RIPARIAN SITE - PER BASELINE (500 - 1000m)

Sicamous - Enderby, BC V0E 1V0

Item / Description	Unit	Qty	Unit Cost	Total
<b>D. Landscape Items</b>				
i. Feature Boulders				
*Per Landscape drawings, spaced approximately every 200m. Supply and install local source feature boulders approx. 1000mm L x 500mm H x 500mm W.				
	ea.	5		
ii. Tree Gator Watering Bag (Deciduous Trees)				
*Per Landscape drawings. Supply and install Gator Bag Pro or approved equivalent.				
	e.a.	12		
iii. Tree Gator Jr. Watering Bag (Coniferous Trees)				
*Per Landscape drawings. Supply and install Gator Bag Pro or approved equivalent.				
	e.a.	3		
<b>E. Planting Medium - Topsoil</b>				
i. Planting Medium for Tree and Shrub Beds				
*Supply and install screened topsoil to 1000mm depth per specifications including soil amendments per landscape drawings and specifications to all planting areas.				
	cu.m	125		
ii. Topsoil for reclamation areas				
*Supply and install screened topsoil to 150mm depth in reclamation seed mix areas.				
	cu.m	325		
<b>F. Landscape Mulch</b>				
i. Bark Mulch				
*Supply and installation of course natural colour cedar bark or non-flammable mulch per landscape drawings and specifications.				
	sq.m	165		
Sub-Total Section 2				
<b>3. LANDSCAPE MAINTENANCE - 1 GROWING SEASON FROM SUBSTANTIAL COMPLETION</b>				
i. Landscape Maintenance				
*Contractor to perform landscape maintenance, watering, and removal of noxious and invasive species per landscape drawings and specifications.				
	l.sum	1		
Sub-Total Section 3				
Total				

NOTE:

\* Contractor is to ensure all items listed above are supplied, installed, and maintained in accordance with City of Enderby, District of Sicamous, and Development Guidelines & Standard Specifications and MMCD (Current Edition)

\* All quantities and areas are to be confirmed prior to construction



Shuswap North Okanagan Rail Trail: Baseline Treatments

Project #

Issued for Tender - Unit Price Schedule  
SEMI-WET SITE - PER BASELINE (500 - 1000m)  
Sicamous - Enderby, BC V0E 1V0

2024-11-19

Item / Description	Unit	Qty	Unit Cost	Total
1. CONTRACTOR USE OF SITE, SITE ACCESS, AND SITE SURVEY				
i. Contractor mobilization, establishment of site security fencing, secure staging compound, installation of stockpile areas, tree protection fencing, maintain temporary access routes, safety signage, detours, and haul roads as required. Reinstatement of all areas, surfaces and utilities disturbed. Remove construction debris and demobilization. Contractor to submit location of staging area, stockpile location and sizes, haul routes to Client representatives and Landscape Architect for approval prior to mobilization.	l.sum	1		
Sub-Total Section 1				
2. REVEGETATION + LANDSCAPE				
A. Trees				
i. Betula papyrifera / Paper Birch				
*Per Landscape drawings and specifications.	ea.	5		
ii. Pinus ponderosa / Ponderosa Pine				
*Per Landscape drawings and specifications.	ea.	7		
iii. Populus tricarpa / Black Cottonwood				
*Per Landscape drawings and specifications.	ea.	11		
iv. Populus tremuloides / Trembling Aspen				
*Per Landscape drawings and specifications.	ea.	15		
v. Pseudotsuga menziesii / Douglas Fir				
*Per Landscape drawings and specifications.	ea.	3		



Shuswap North Okanagan Rail Trail: Baseline Treatments

Project #

Issued for Tender - Unit Price Schedule  
SEMI-WET SITE - PER BASELINE (500 - 1000m)  
Sicamous - Enderby, BC V0E 1V0

2024-11-19

Item / Description	Unit	Qty	Unit Cost	Total
<b>B. Shrubs, Grasses, Perennials</b>				
i. Acer glabrum / Rocky Mountain Maple				
*Per Landscape drawings and specifications.	ea.	8		
ii. Amelanchier alnifolia / Saskatoon				
*Per Landscape drawings and specifications.	ea.	13		
iii. Cornus sericea / Red Osier Dogwood				
*Per Landscape drawings and specifications.	ea.	34		
iv. Mahonia aquifolium / Oregon Grape				
*Per Landscape drawings and specifications.	ea.	16		
v. Philadelphus lewisii `Blizzard` / Blizzard Mockorange				
*Per Landscape drawings and specifications.	ea.	10		
vi. Rosa acicularis / Prickly Rose				
*Per Landscape drawings and specifications.	ea.	30		
vii. Rosa nutkana / Nootka Rose				
*Per Landscape drawings and specifications.	ea.	25		
ix. Salix purpurea `Nana` / Dwarf Arctic Willow				
*Per Landscape drawings and specifications.	ea.	5		
x. Sambucus racemosa / Indigenous Elderberry				
*Per Landscape drawings and specifications.	ea.	4		
xi. Schoenoplectus acutus occidentalis / Indigenous Tule - Bull Rush				
*Per Landscape drawings and specifications.	ea.	11		
xii. Shepherdia argentea /Silver Buffaloberry				
*Per Landscape drawings and specifications.	ea.	9		
xiii. Spiraea betulifolia / Birch Leaf Spirea				
*Per Landscape drawings and specifications.	ea.	5		
xiv. Viburnum trilobum / Indigenous Highbush Cranberry				
*Per Landscape drawings and specifications.	ea.	7		



Item / Description	Unit	Qty	Unit Cost	Total
<b>C. RIPAIRAN IMPROVEMENTS</b>				
i. Live staking				
*Site specific, requires fine scale study. Native, site appropriate live stake cuttings prepared, installed, and spaced per specifications.				
	sm.	100		
ii. Biodegradable Erosion Control Matting				
*Supply and installation of 100% Biodegradable erosion control matting and wattles per specifications.				
	sm.	100		
<b>D. Landscape Items</b>				
i. Feature Boulders				
*Per Landscape drawings, spaced approximately every 200m. Supply and install local source feature boulders approx. 1000mm L x 500mm H x 500mm W.				
	ea.	5		
iii. Tree Gator Watering Bag (Deciduous Trees)				
*Per Landscape drawings. Supply and install Gator Bag Pro or approved equivalent.				
	e.a.	31		
iv. Tree Gator Jr. Watering Bag (Coniferous Trees)				
*Per Landscape drawings. Supply and install Gator Bag Pro or approved equivalent.				
	e.a.	7		
<b>E. Planting Medium - Topsoil</b>				
i. Planting Medium for Tree and Shrub Beds				
*Supply and install screened topsoil to 1000mm depth per specifications including soil amendments per landscape drawings and specifications to all planting areas.				
	cu.m	175		
ii. Topsoil for reclamation areas				
*Supply and install screened topsoil to 150mm depth in reclamation seed mix areas.				
	cu.m	330		
<b>F. Landscape Mulch</b>				
i. Bark Mulch				
*Supply and installation of course natural colour cedar bark or non-flammable mulch per landscape drawings and specifications.				
	sq.m	150		
Sub-Total Section 2				
<b>3. LANDSCAPE MAINTENANCE - 1 GROWING SEASON FROM SUBSTANTIAL COMPLETION</b>				
i. Landscape Maintenance				
*Contractor to perform landscape maintenance, watering, and removal of noxious and invasive species per landscape drawings and specifications.				
	l.sum	1		
Sub-Total Section 3				
Total				

NOTE:

\* Contractor is to ensure all items listed above are supplied, installed, and maintained in accordance with City of Enderby, District of Sicamous, and Development Guidelines & Standard Specifications and MMCD (Current Edition)

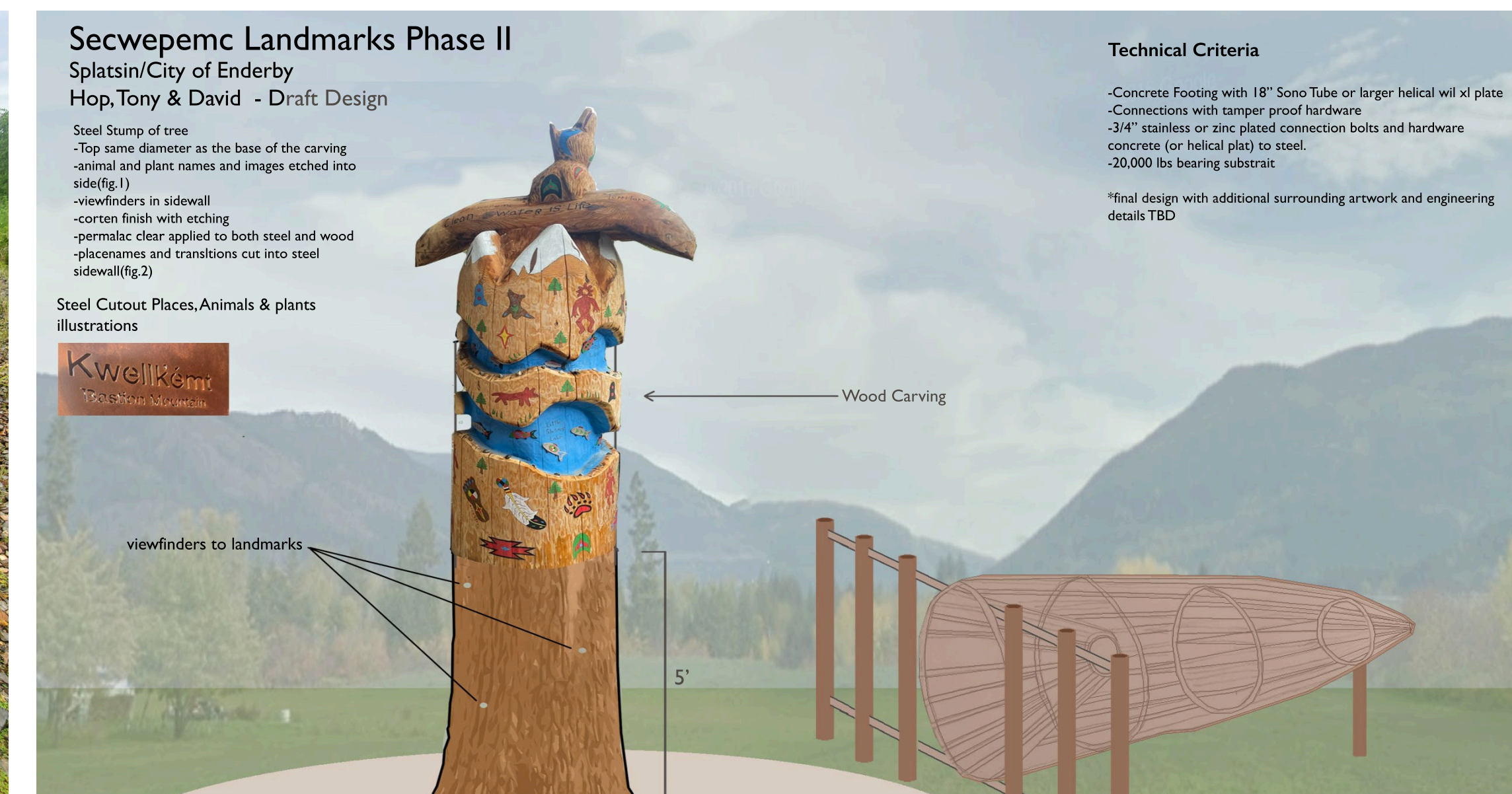
\* All quantities and areas are to be confirmed prior to construction

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# NEXT STEPS

- FINAL PLANTINGS ENDERBY TEST SECTION (Spring 2025)  
+ Volunteer/Collaboration Opportunities
- REVEGETATION IMPLEMENTATION (Spring 2025)  
+ Impacted Areas adjacent to private homes (Sicamous Narrows)
- RE-VEGETATION PRESCRIPTION IMPLEMENTATION:  
+ Natural Areas / Remote Areas Baseline Planting (Spring 2025/26+)
- PHASING AND GRANT FUNDING APPLICATIONS (Feb 2025)
- LONG TERM STRATEGY FOR INVASIVE PLANT MITIGATION AND ONGOING MAINTENANCE



## SHUSWAP NORTH OKANAGAN RAIL TRAIL RE-VEGETATION GUIDELINES

ENDERBY - SICAMOUS, BRITISH COLUMBIA | DECEMBER 31, 2024