

ROSEDALE & SCARLETT BERMS

ISSUED FOR TENDER
06 November 2024

DRAWING LIST

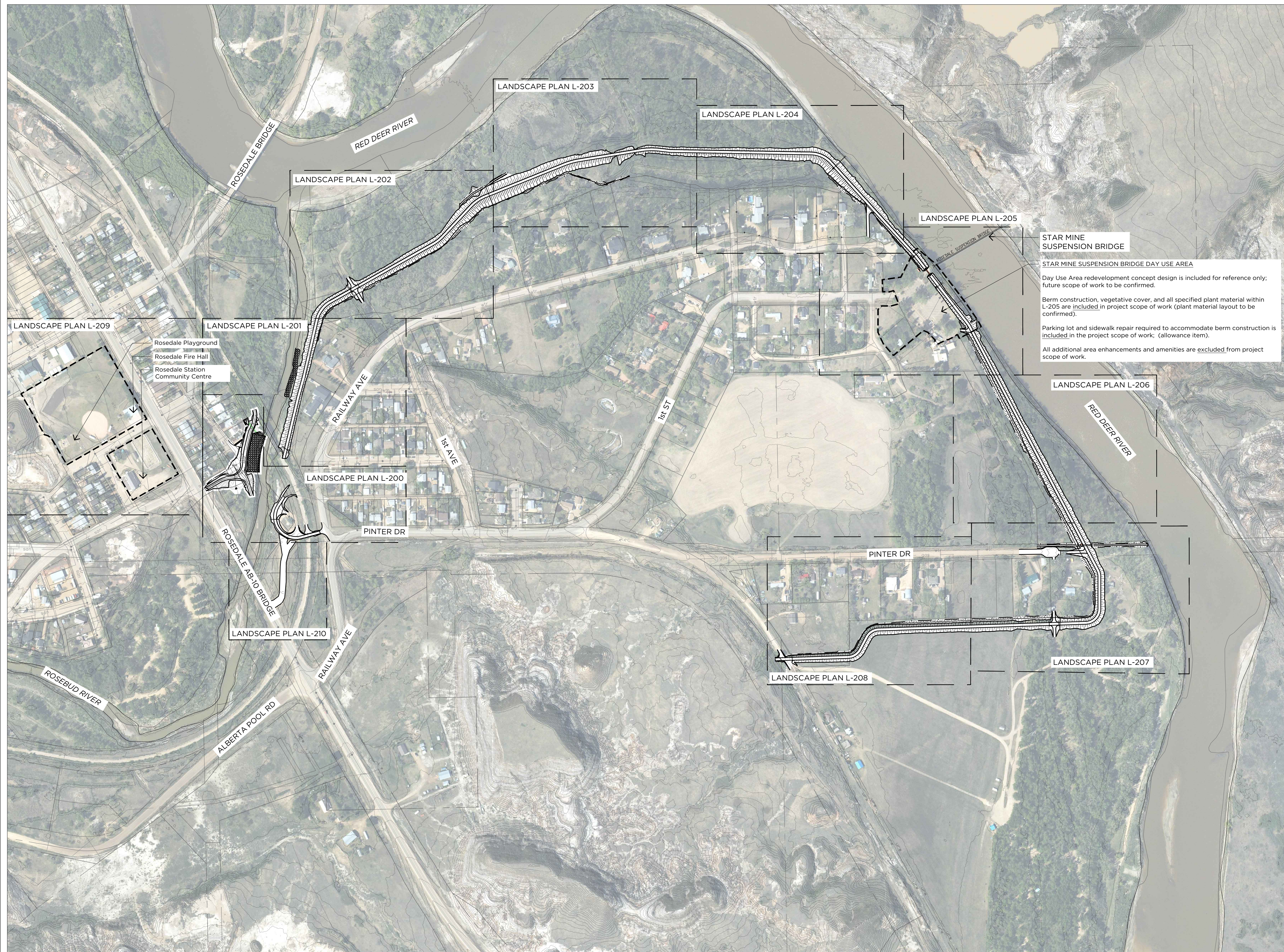
Sheet Number	Sheet Name
L-000	LANDSCAPE KEY PLAN
L-001	LEGEND & NOTES
L-100	SITE & SOIL PREPARATION PLAN
L-200	LANDSCAPE PLAN
L-201	LANDSCAPE PLAN
L-202	LANDSCAPE PLAN
L-203	LANDSCAPE PLAN
L-204	LANDSCAPE PLAN
L-205	LANDSCAPE PLAN
L-206	LANDSCAPE PLAN
L-207	LANDSCAPE PLAN
L-208	LANDSCAPE PLAN
L-209	LANDSCAPE PLAN
L-210	LANDSCAPE PLAN
L-300	LANDSCAPE DETAILS
L-301	LANDSCAPE DETAILS

NOTE:

EXISTING VEGETATION LOCATION AND EXTENTS ARE BASED ON AERIAL IMAGERY AND ARE APPROXIMATE ONLY.

EXISTING VEGETATION IS SHOWN TO PROVIDE RELEVANT CONTEXT FOR THE FOLLOWING:

- PROTECTING EXISTING VEGETATION WHERE POSSIBLE; AND
- LOCATING PROPOSED PLANT MATERIAL.



A1 KEY PLAN
L-100 Scale 1:3000



Rev	Date	Des	Dwn	Chk	Description
A	2024-11-06	G3	JAB	AK	ISSUED FOR TENDER

DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE
RESILIENCY AND FLOOD MITIGATION PROGRAM

ROSEDALE & SCARLETT BERM
LANDSCAPE KEY PLAN

Project No. 3446-005	Drawing No. L-000	Rev. A
Group LANDSCAPE		

100
 50
 0
 millimetres
 Saved: 2024/11/05, 11:55 AM
 Paper Size = ANSI D
 At Full Size, this border measures 520 mm x 800 mm
 D
 C
 B
 A

Tree Harvest

Intent: To harvest trees designated for removal for future reuse on properties within the Drumheller Valley that have been designated as Environmental Reserve lands. Harvested trees will be used strategically to control access, create pollinator habitat, encourage habitat diversity, and to slow water flows in riparian zones during flood events.

Prior to mobilization of tree removal equipment, the Contractor shall coordinate a site review with the Consultant to select and mark approximately 30 large caliper trees designated for removal to be allocated for harvest purposes.

Selected trees shall be removed per removal specifications and shall be transported to a site designated by the Owner (site to be confirmed, within 15km of removal site).

Site + Soil Preparation Notes

Soil Decompaction

Application: For all previously-developed or highly compacted areas, including areas formerly covered by structures, paving, heavily-used pathways, and those uses for construction staging and access.

Intent: To facilitate restoration of soil structure, enhancing the soil hydrological function and aeration that is critical to plant root system development, vegetation establishment, and successful long-term revegetation.

References:

David Polster, NAIT, *Boreal Reclamation Program - Technical Note: Making Site Rough and Loose: A Soil Adjustment Technique*, June 2023.

Natural Resources Canada, *Silviculture Knowledge for Reclamation of Oil and Gas Disturbances: Soil Decompaction*, 2016.

Canadian Society of Landscape Architects & Canadian Nursery Landscape Association, *Canadian Landscape Standard: The Guide for Landscape Construction Projects Across Canada*, Current Edition.

Design Criteria:

Decompact all areas that meet the above criteria to a minimum depth of 750mm throughout compacted areas.

Select a technique that is suitable for the on-site soil conditions, grades, equipment availability, and access considerations. Obtain Consultant approval prior to proceeding.

Techniques: Refer to Reference Documents for options, which include:

- Winged Subsoiler Technique
- Straight Ripper Shank Technique
- Standard Mounding Technique
- Rough and Loose Mounding Technique
- Discing Technique

Grade all areas following decompaction per Drawings and as required to suit intended application / vegetative cover prior to installation of growing media.

Finalize soil / growing media installation, grading, and preparation, as well as installation of seed, sod or other plant material, as soon as possible following subgrade and soil decompaction to minimize weed establishment.

Soil Roughening / Texturing

Application: For all areas prepared for seed installation.

Intent: To supplement specification requirements for soil / growing media installation and fine grading, roughening the soil / growing media surface prior to seeding naturalized areas will optimize germination and vegetation establishment by improving seed - soil contact, facilitating proper seeding depth, and enhancing soil moisture and microclimate.

References:

Ann Smreciu, Heather Sinton, David Walker, and Jeanie Bietz, Alberta Agriculture, Food and Rural Development, *Establishing Native Plant Communities*, 2003.

United States Environmental Protection Agency, *Stormwater Best Management Practice: Soil Roughening*, December 2021.

Government of Alberta, *Field Guide for Erosion and Sediment Control - Section 7: Erosion and Sediment Control Methods*, June 2011.

Design Criteria:

Roughen soils after final grading has been approved by Consultant.

Select a technique that is suitable for the on-site soil conditions, grades, equipment availability, and access considerations. Obtain Consultant approval prior to proceeding.

Technique: Grooving

- Create a series of ridges and depressions along the contour of the slope.
- Equipment options may include: disks, tillers, spring harrows, teeth on front-end loader bucket.
- Groove depth: 25-50mm
- Groove spacing: 75-150mm

Ensure soils are not compacted during soil roughening operations.

Install amendments, seed, and erosion control materials as soon as possible following soil preparation to minimize erosion, dust, and weed establishment.

Planting Notes

Advance procurement of all sod products and plant material is required. Contractor shall source and procure/reserve all products within sixty (60 days) of contract award.

Plant material list was prepared for estimating purposes only. Contractor shall make their own quantity take-offs from Landscape Drawings and shall report any discrepancies prior to bid submission.

All construction activities within six (6) meters of existing vegetation must be supervised by an ISA (International Society of Arboriculture) certified arborist.

No bark mulch shall be used on wet side of berm construction.

All pruning of existing vegetation, if required, must be supervised by an ISA certified arborist and completed in accordance with all regulations.

Refer to Technical Specifications for detailed supply and installation requirements.

Planting Layout Notes

Final layout of all plant material shall be reviewed on-site and approved by the Consultant prior to excavation and installation - trees locations shall be staked, planting beds shall be marked, and container plant material shall be placed.

Plant material installed without review and approval may require relocation or replacement as directed by the Consultant at the Contractor's sole expense.

Locations of all trees and shrubs shown on Landscape Plans illustrate the planting design intent and reflect the following layout criteria:

Existing Vegetation - approximate extents/types per aerial imagery:

Where existing vegetation is removed to accommodate berm footprint, construction extents, and/or construction access, new plant material may be specified and located to provide similar long-term ecosystem and/or aesthetic benefits.

Where existing vegetation is protected and will remain following berm construction, new plant material may be located to avoid conflicts with, and/or to enhance and supplement, this vegetation.

Landowner Input

Proposed plant material located within 5m of private property or between private property and the Red Deer River may require on-site consultation with landowner to finalize location prior to installation.

For all plant material installed on private property, Contractor shall coordinate directly with landowners. Refer to specifications for additional details.

Setbacks

Plant material shall be located relative to the setback criteria established by geotechnical engineering requirements, utility providers, and transportation safety requirements. Measurements reflect minimum dimensions and shall be made from centre of plant material.

Berm geometry setbacks - per Geotechnical Engineering requirements.

- Trees 5m from toe of berm
- Shrubs 2m from toe of berm

Best practice setbacks

- Deciduous Trees 1m from pathway / hardscape edge
- Coniferous Trees ½ mature spread from pathway / hardscape edge
- Shrubs ½ mature spread from pathway / hardscape edge

Utility setbacks - per City of Calgary Parks and Open Spaces Development Guidelines and Standard Specifications: Landscape Construction, Current Edition.

- Trees 3m from Sanitary Line
3m from Storm Line
2.5m from Water Line
2.5m from Fire Hydrant
2.0m from Power/Electrical Line
7.5m from Overhead Power/Electrical Line

The Contractor shall ensure compliance with all setback requirements.

Planting Schedule

	code	botanical / common name	quantity	height	spread	size	spacing	remarks
trees	pipu	<i>picea pungens</i> colorado spruce	6	20m	5m	2m ht.	shown	
	pisy	<i>pinus sylvestris</i> scotch pine	2	12m	5m	3m ht.	shown	ornamental
	frprer	<i>fraxinus pennsylvanica</i> 'Rugby' prairie spire green ash	9	10m	5m	50mm cal.	shown	
mass	<i>malus x 'spring snow'</i> spring snow flowering crab	6	8m	5m	50mm cal.	shown	flowering ornamental	
math	<i>malus x 'thunderchild'</i> thunderchild crabapple	4	5m	4m	50mm cal.	shown	sunny well drained soil, hardy dark pink	
poba	<i>populus balsamifera</i> balsam poplar	28	20m	15m	50mm cal.	shown		
pode	<i>populus deltoides</i> plains cottonwood	87	30m	20m	#15 cont.	shown	male variety only	
prvi	<i>prunus virginiana 'schubert'</i> schubert chokecherry	9	5m	3m	50mm cal.	shown	ornamental	
ulam	<i>ulmus americana</i> american elm	5	24m	15m	75mm cal.	shown		

total quantity of trees = 156

	code	botanical / common name	quantity	height	spread	size	spacing	remarks
shrubs	amal	<i>amelanchier alnifolia</i> saskatoon	27	3m	2m	#2 cont.	±1.8m o.c.	ornamental, edible fruit
	elco	<i>elaeagnus commutata</i> wolf willow	28	2m	2m	#2 cont.	±1.8m o.c.	
	roac	<i>rosa acicularis</i> prickly rose	48	1m	1m	#2 cont.	±0.8m o.c.	
	sain	<i>salix interior</i> sandbar willow	32	2m	2m	#2 cont.	±1.8m o.c.	reclamation planting
	syprd	<i>syringa x prestoniae</i> 'Donald wyman' donald wyman preston lilac	33	3m	1.8m	#5 cont.	shown	

total quantity of shrubs = 168

Seed Mix Schedule

Seed Mix 4 - Multipurpose Mix

Botanical Name	Common Name	Target Cover	Seed Mix (PLS)
<i>Bouteloua gracilis</i>	Blue Grama Grass	10%	3%
<i>Elymus canadensis</i>	Canada Wild Rye	17%	39%
<i>Poa palustris</i>	Fowl Bluegrass	10%	1%
<i>Nassella/Stipa viridula</i>	Green Needle Grass	10%	16%
<i>Festuca idahoensis</i>	Idaho Fescue	10%	6%
<i>Koeleria macrantha</i>	June Grass	5%	0.7%
<i>Artemisia frigida</i>	Prairie Sagewort	5%	0.3%
<i>Festuca saximontana</i>	Rocky Mountain Fescue	15%	6%
<i>Elymus trachycaulus ssp. trachycaulus</i>	Slender Wheatgrass	18%	28%
	Total	100%	100%
Cover Crop			
<i>Lolium multiflorum</i>	Annual Ryegrass		

Application Rates:
seed mix = 60 kg (PLS) / ha
cover crop = 5 kg (PLS) / ha

Seeding Notes

Advance procurement of seed is required. Contractor shall source and procure/reserve all seed within sixty (60 days) of contract award.

Seed installation timing is critical to the successful establishment of vegetative cover. Refer to Technical Specifications for recommendations and parameters.

Refer to Technical Specifications for additional detailed supply and installation requirements.

Legend

construction extents (approximate)
 property lines
 approximate limit of berm construction
 2m offset from toe of berm
 5m offset from toe of berm

Existing Utilities

refer to civil engineering drawings

water line
 storm line
 electrical line
 gas line

Civil

refer to civil engineering drawings

1:2 high water mark
 rip rap
 gravel surfacing

Subgrade & Soil Preparation

exposed and/or steep slopes
 biodegradable erosion control blanket
 for erosion control and shaded microclimate

existing compacted areas
 subgrade decompaction | rough and loose
 tracked growing medium

all other seeded areas
 tracked growing medium

Planting

seed mix 4

specialty sod

wood mulch

proposed trees

proposed shrubs

As-Built Documentation

The Contractor shall be responsible for documenting any on-site changes to seed and sod areas and extents.

The Contractor shall be responsible for final survey of planting beds and installed trees (location and species).



Seal:

Rev	Date	Des	Dwn	Chk	Description	Rev	Date	Des	Dwn	Chk	Description
A	2024-11-06	G3	JAB	AK	ISSUED FOR TENDER						

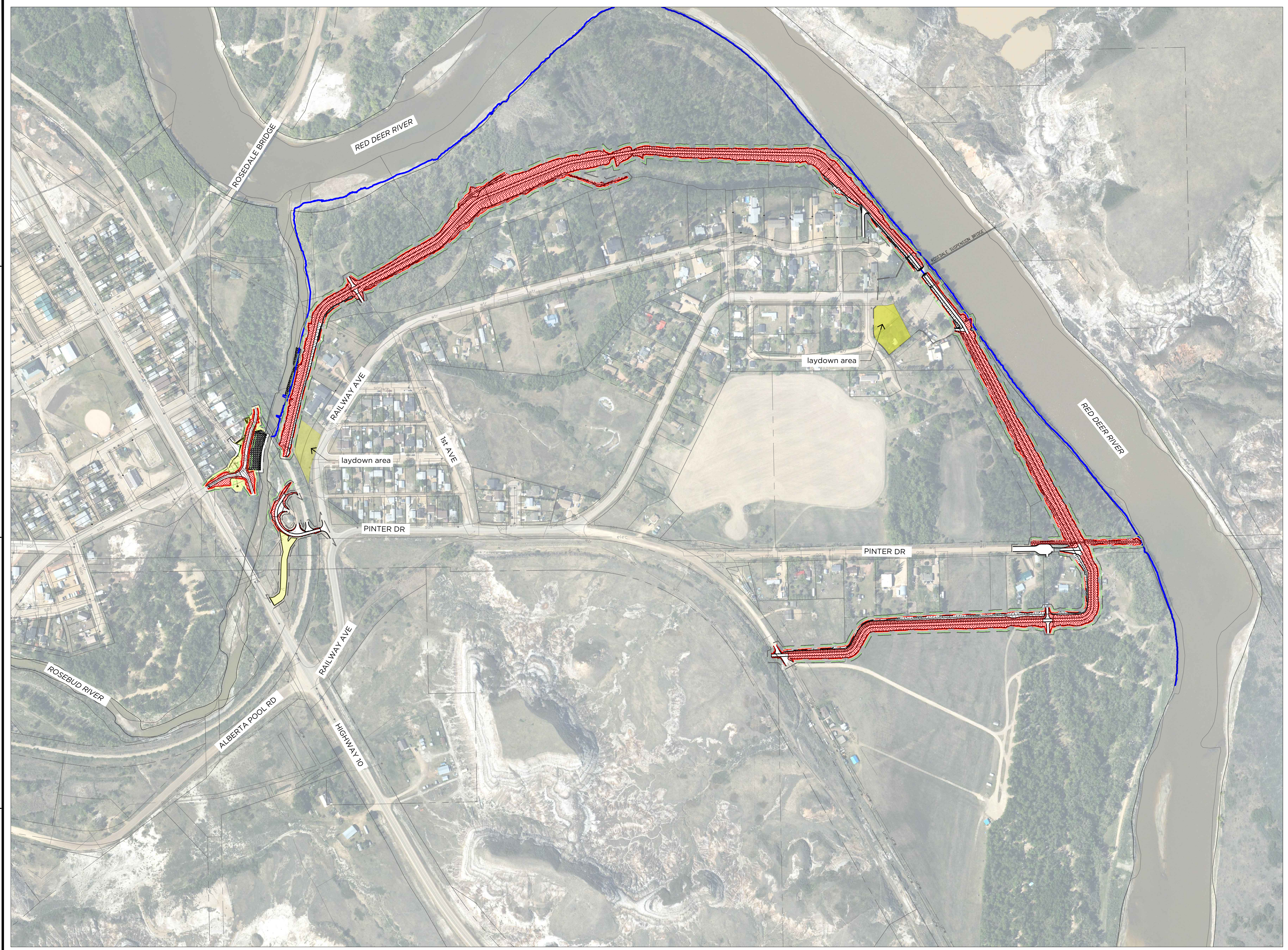
DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE
RESILIENCY AND FLOOD MITIGATION PROGRAM

ROSDALE & SCARLETT BERM
LEGEND & NOTES

Project No. 3446-005 Drawing No. L-001 Rev. A
Group LANDSCAPE

SAVED 2024/11/05 11:55 AM

100
50
0
millimetres
Paper Size = ANSI D
At Full Size, this border measures 50 mm x 80 mm



Legend

- construction extents (approximate)
- property lines

Site & Soil Preparation

- soil roughening / texturing
- soil decompaction

note: for estimating purposes, edge of construction disturbance is shown as "approximate limit of berm construction" line, +/- 2m from civil earthworks

A1 SITE & SOIL PREPARATION PLAN

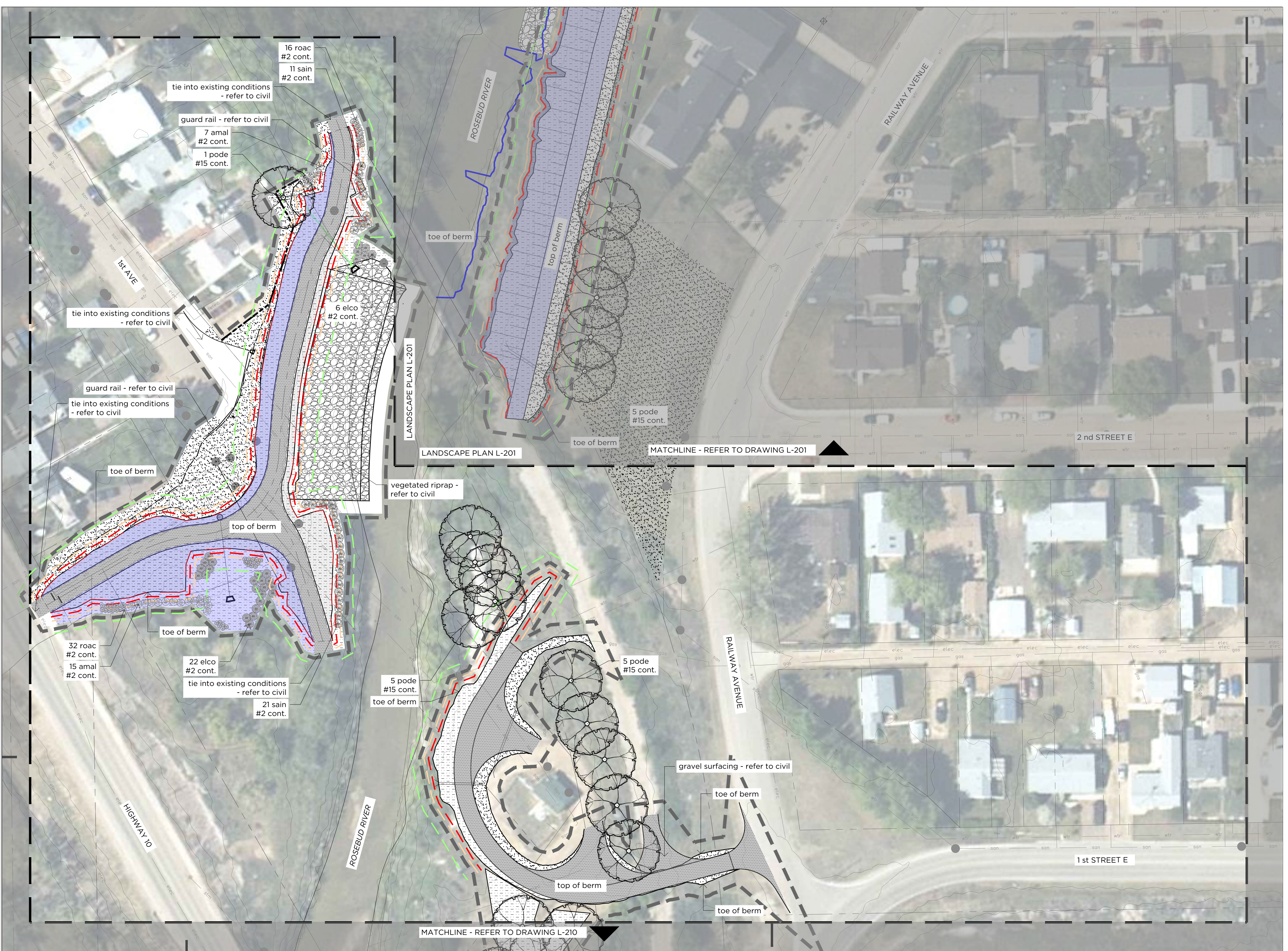
L-100 Scale 1:3000



Seal:

Rev	Date	Des	Dwn	Chk	Description	Rev	Date	Des	Dwn	Chk	Description
A	2024-11-06	G3	JAB	AK	ISSUED FOR TENDER						

DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE RESILIENCY AND FLOOD MITIGATION PROGRAM		
ROSEDALE & SCARLETT BERM SITE & SOIL PREPARATION PLAN		
Project No.	3446-005	Drawing No.
Group	LANDSCAPE	
		L-100
		A



Legend

- construction extents (approximate)
- - - property lines
- - - approximate limit of berm construction
- - - 2m offset from toe of berm
- - - 5m offset from toe of berm

Existing Utilities

refer to civil engineering drawings

- wtr water line
- san storm line
- elec electrical line
- gas gas line

Civil

refer to civil engineering drawings

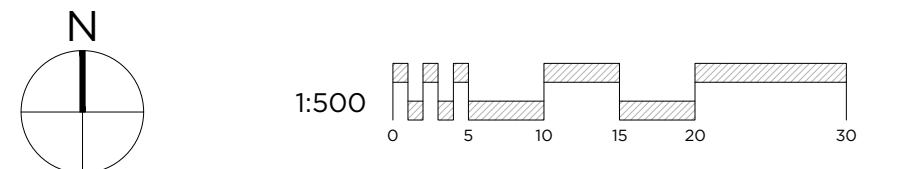
- 1:2 high water mark
- rip rap
- gravel surfacing

Subgrade & Soil Preparation

- exposed and/or steep slopes
biodegradable erosion control blanket for erosion control and shaded microclimate

Planting

- seed mix 4
- specialty sod
- wood mulch
- proposed trees
- proposed shrubs



A1 LANDSCAPE PLAN

L-200 Scale 1:500



Rev	Date	Des	Dwn	Chk	Description	Rev	Date	Des	Dwn	Chk	Description
A	2024-11-06	G3	JAB	AK	ISSUED FOR TENDER						

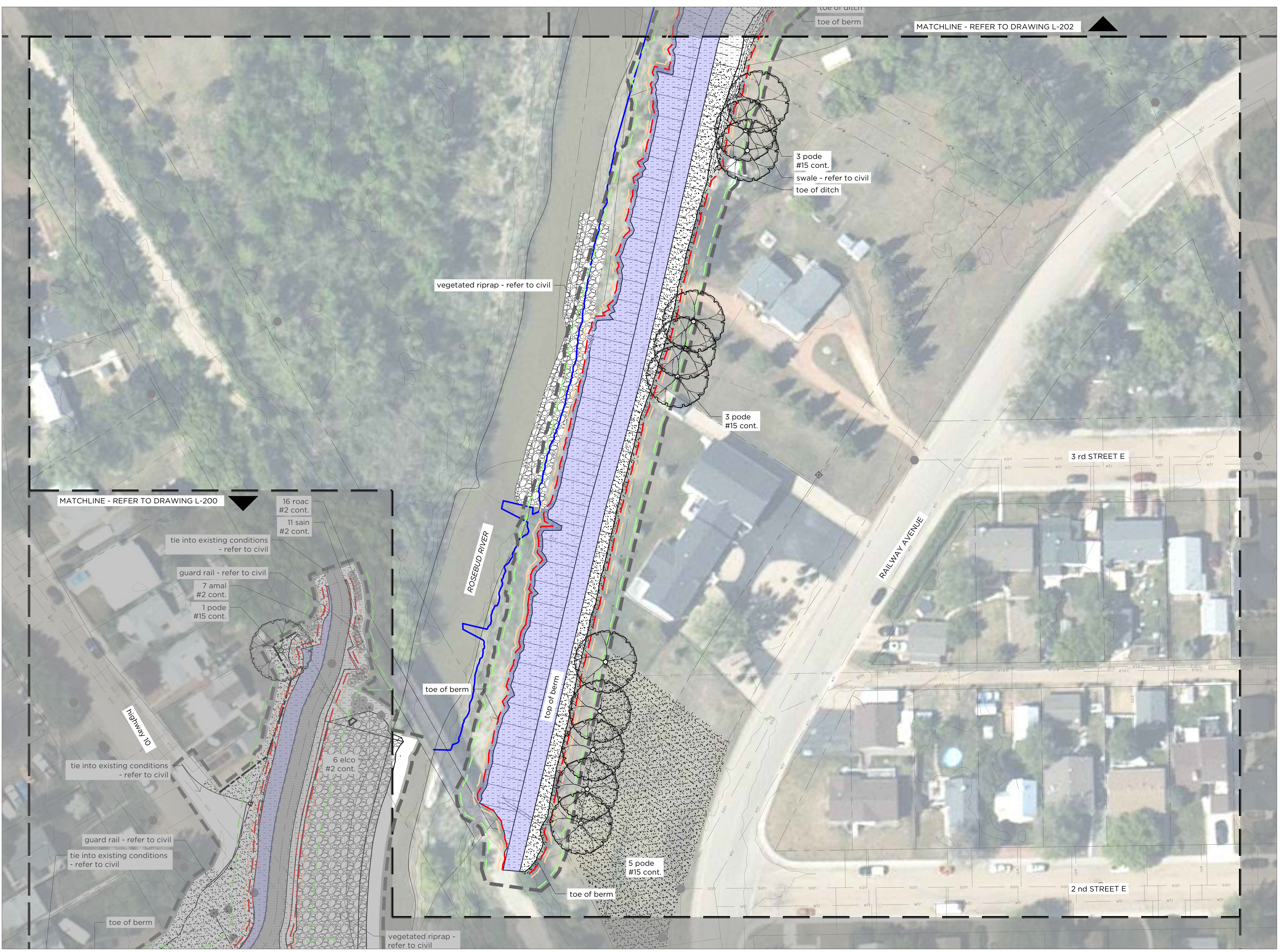
**DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE
RESILIENCY AND FLOOD MITIGATION PROGRAM**

**ROSEDALE & SCARLETT BERM
LANDSCAPE PLAN**

Project No. **3446-005** Drawing No. **L-200** Rev. **A**

Group **LANDSCAPE**

100
 50
 0
 millimetres
 100
 50
 0
 metres
 SAVED: 2024/11/05 11:55 AM
 Page Size - ANSI D
 At Full Size, this border measures 20 mm x 800 mm



Legend

	construction extents (approximate)
	property lines
	approximate limit of berm construction
	2m offset from toe of berm
	5m offset from toe of berm

Existing Utilities

refer to civil engineering drawings

	wtr	water line
	san	storm line
	elec	electrical line
	gas	gas line

Civil

refer to civil engineering drawings

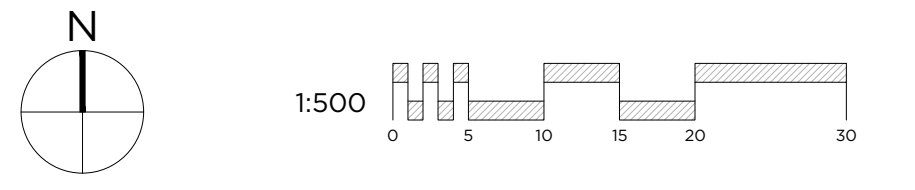
	1:2 high water mark
	rip rap
	gravel surfacing

Subgrade & Soil Preparation

	exposed and/or steep slopes biodegradable erosion control blanket for erosion control and shaded microclimate
--	---

Planting

	seed mix 4
	specialty sod
	wood mulch
	proposed trees
	proposed shrubs



A1 LANDSCAPE PLAN
L-201 Scale 1:500

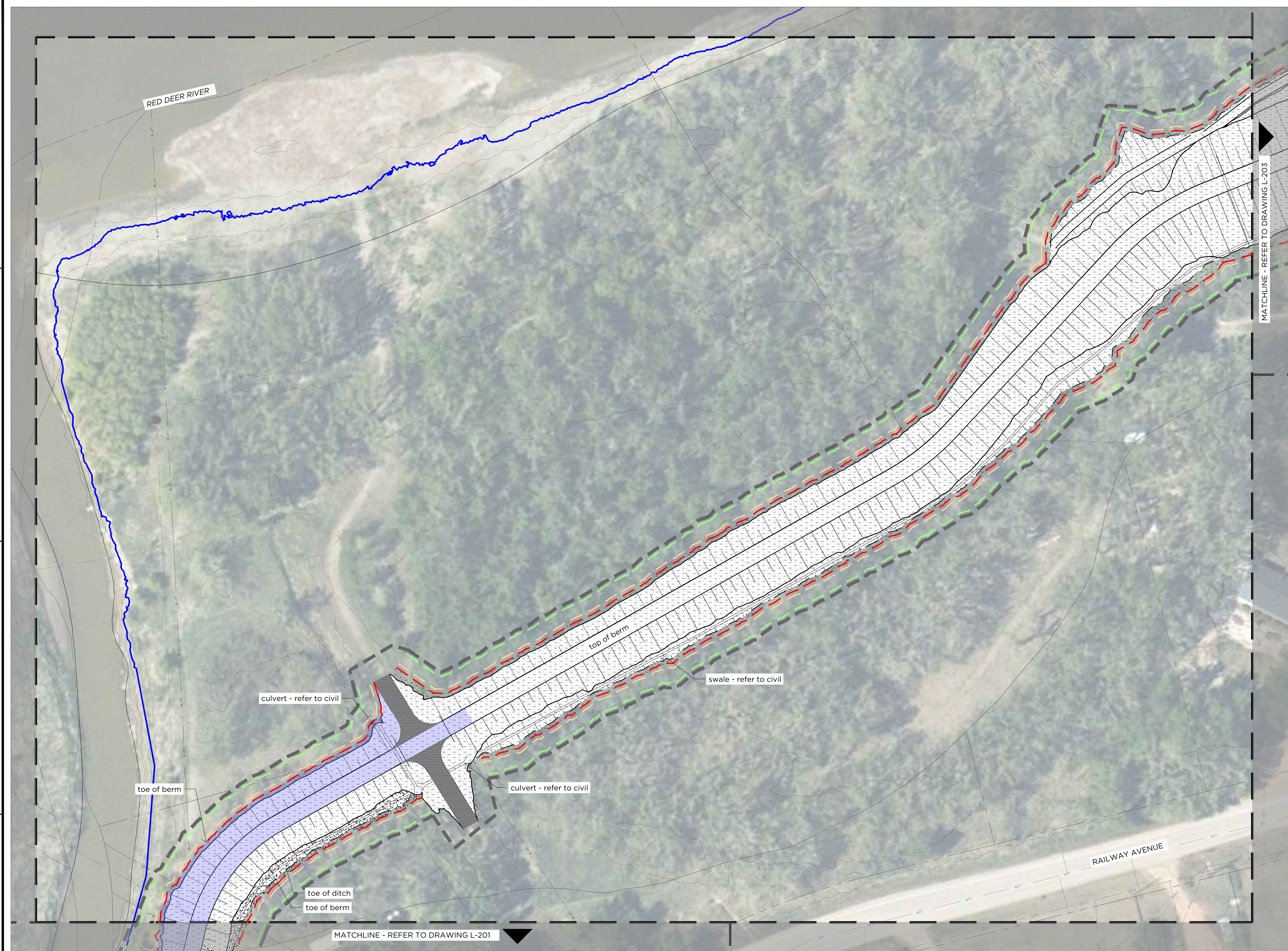


Rev	Date	Des	Dwn	Chk	Description	Rev	Date	Des	Dwn	Chk	Description
A	2024-11-06	G3	JAB	AK	ISSUED FOR TENDER						

DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE RESILIENCY AND FLOOD MITIGATION PROGRAM			
ROSDALE & SCARLETT BERM LANDSCAPE PLAN			
Project No.	3446-005	Drawing No.	L-201
Group	LANDSCAPE	Rev.	A

SAVED 2024/11/05 11:55 AM

100
75
50
25
0
millimetres



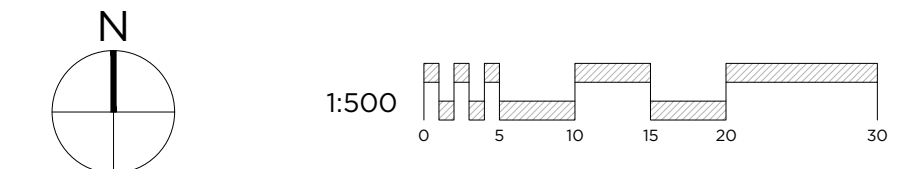
- ### Legend
- construction extents (approximate)
 - property lines
 - approximate limit of berm construction
 - 2m offset from toe of berm
 - 5m offset from toe of berm

- ### Existing Utilities
- refer to civil engineering drawings
- water line
 - storm line
 - electrical line
 - gas line

- ### Civil
- refer to civil engineering drawings
- 1:2 high water mark
 - rip rap
 - gravel surfacing

- ### Subgrade & Soil Preparation
- exposed and/or steep slopes
biodegradable erosion control blanket
for erosion control and shaded microclimate

- ### Planting
- seed mix 4
 - specialty sod
 - wood mulch
 - proposed trees
 - proposed shrubs



A1 LANDSCAPE PLAN

L-202 Scale 1:500



Rev	Date	Des	Dwn	Chk	Description	Rev	Date	Des	Dwn	Chk	Description
A	2024-11-06	G3	JAB	AK	ISSUED FOR TENDER						

**DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE
RESILIENCY AND FLOOD MITIGATION PROGRAM**

**ROSDALE & SCARLETT BERM
LANDSCAPE PLAN**

Project No. **3446-005** Drawing No. **L-202** Rev. **A**

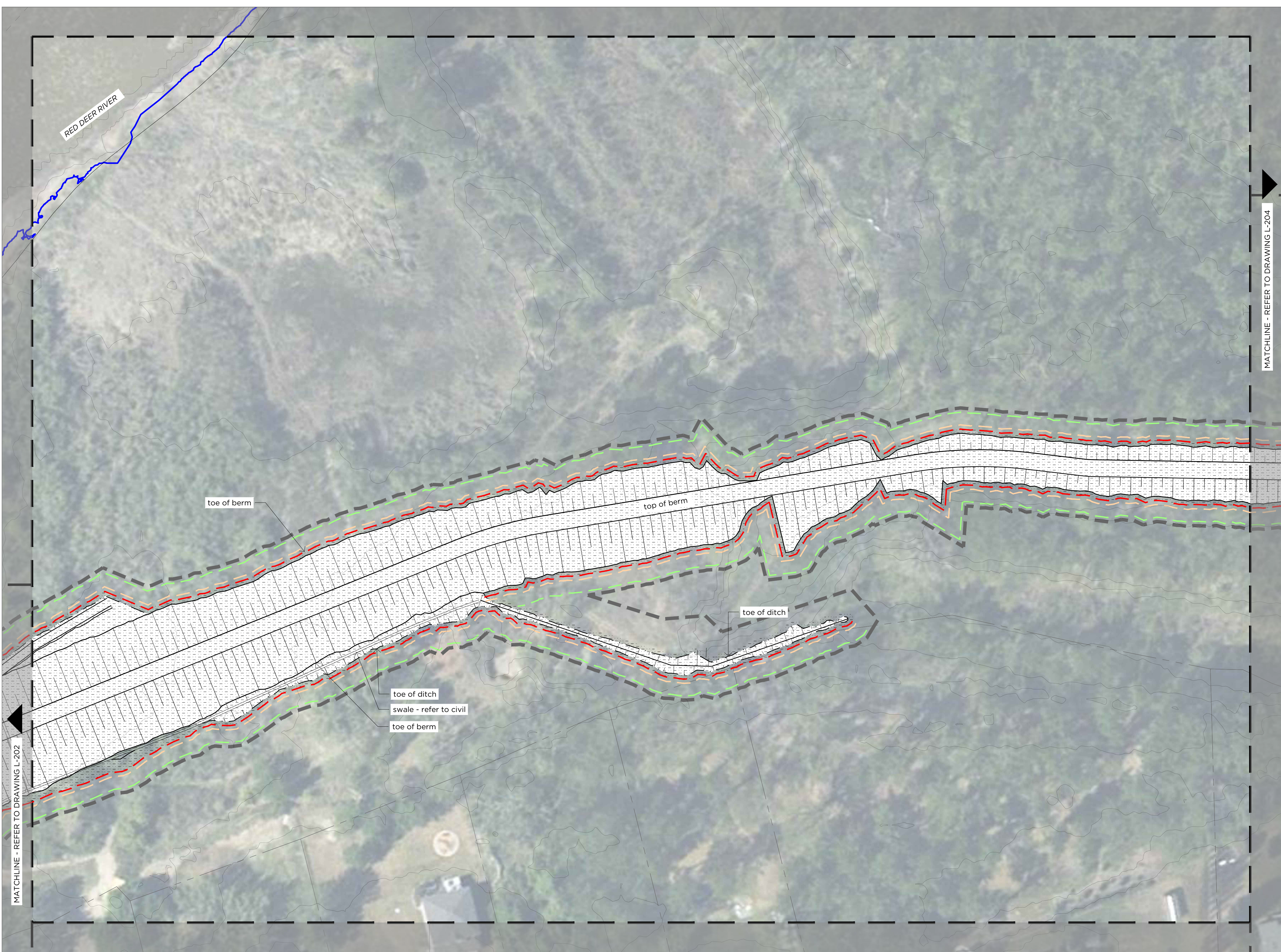
Group **LANDSCAPE**

SAVED 2024/11/05 11:55 AM

100
 Paper Size = ANSI D
 At Full Size, this border measures 50 mm x 80 mm

100
 50
 0
 millimetres

A



Legend

- construction extents (approximate)
- property lines
- approximate limit of berm construction
- 2m offset from toe of berm
- 5m offset from toe of berm

Existing Utilities
 refer to civil engineering drawings

- water line
- storm line
- electrical line
- gas line

Civil
 refer to civil engineering drawings

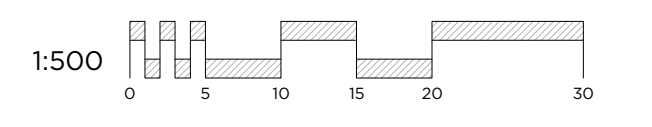
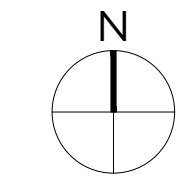
- 1:2 high water mark
- rip rap
- gravel surfacing

Subgrade & Soil Preparation

- exposed and/or steep slopes
 biodegradable erosion control blanket
 for erosion control and shaded microclimate

Planting

- seed mix 4
- specialty sod
- wood mulch
- proposed trees
- proposed shrubs



A1 LANDSCAPE PLAN

L-203 Scale 1:500



Seal:

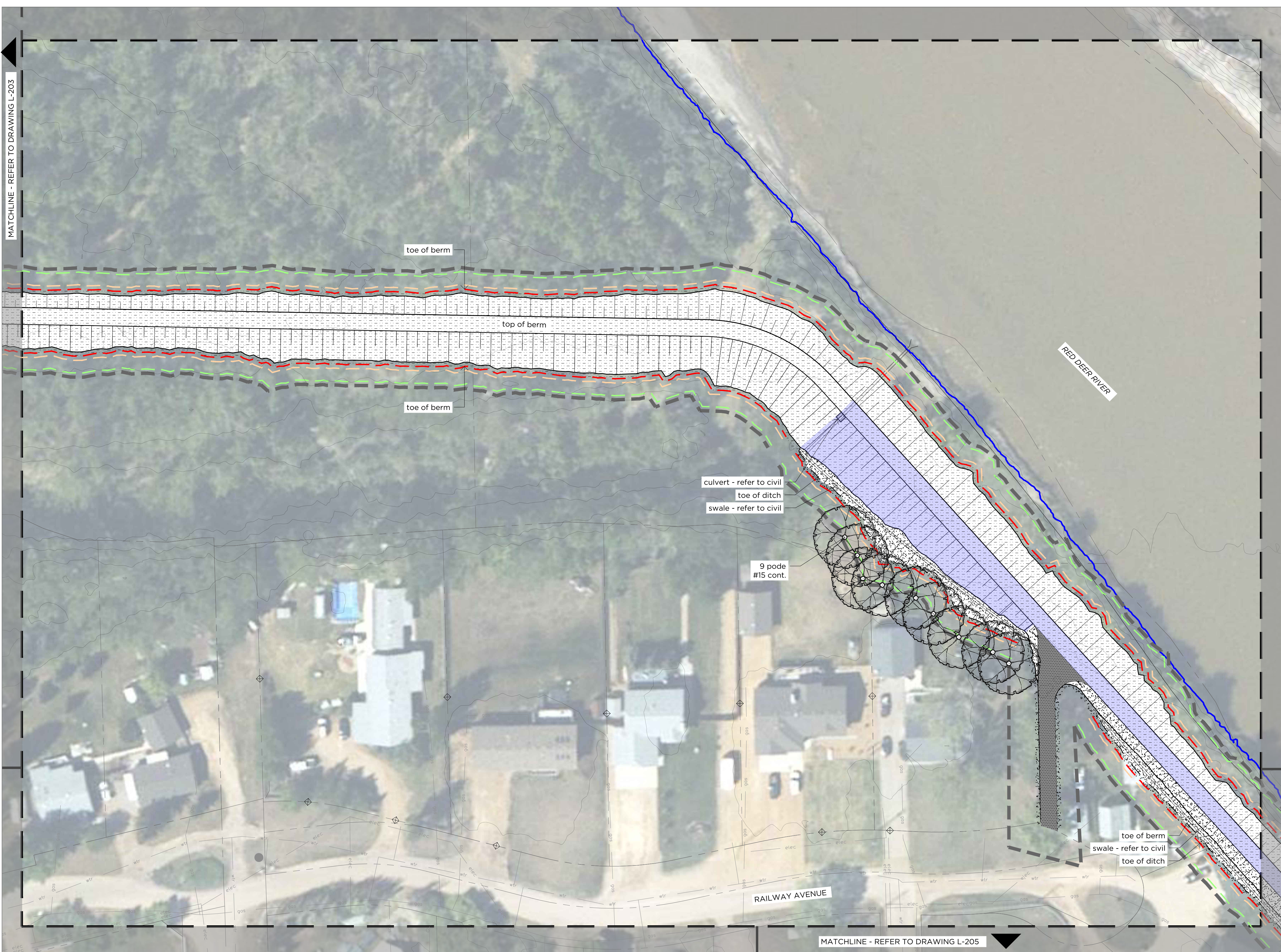
Rev	Date	Des	Dwn	Chk	Description
A	2024-11-06	G3	JAB	AK	ISSUED FOR TENDER

Rev	Date	Des	Dwn	Chk	Description

**DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE
 RESILIENCY AND FLOOD MITIGATION PROGRAM**

**ROSDALE & SCARLETT BERM
 LANDSCAPE PLAN**

Project No. 3446-005	Drawing No. L-203	Rev. A
Group LANDSCAPE		



Legend

	construction extents (approximate)
	property lines
	approximate limit of berm construction
	2m offset from toe of berm
	5m offset from toe of berm

Existing Utilities
refer to civil engineering drawings

		water line
		storm line
		electrical line
		gas line

Civil
refer to civil engineering drawings

	1:2 high water mark
	rip rap
	gravel surfacing

Subgrade & Soil Preparation

	exposed and/or steep slopes biodegradable erosion control blanket for erosion control and shaded microclimate
--	---

Planting

	seed mix 4
	specialty sod
	wood mulch
	proposed trees
	proposed shrubs

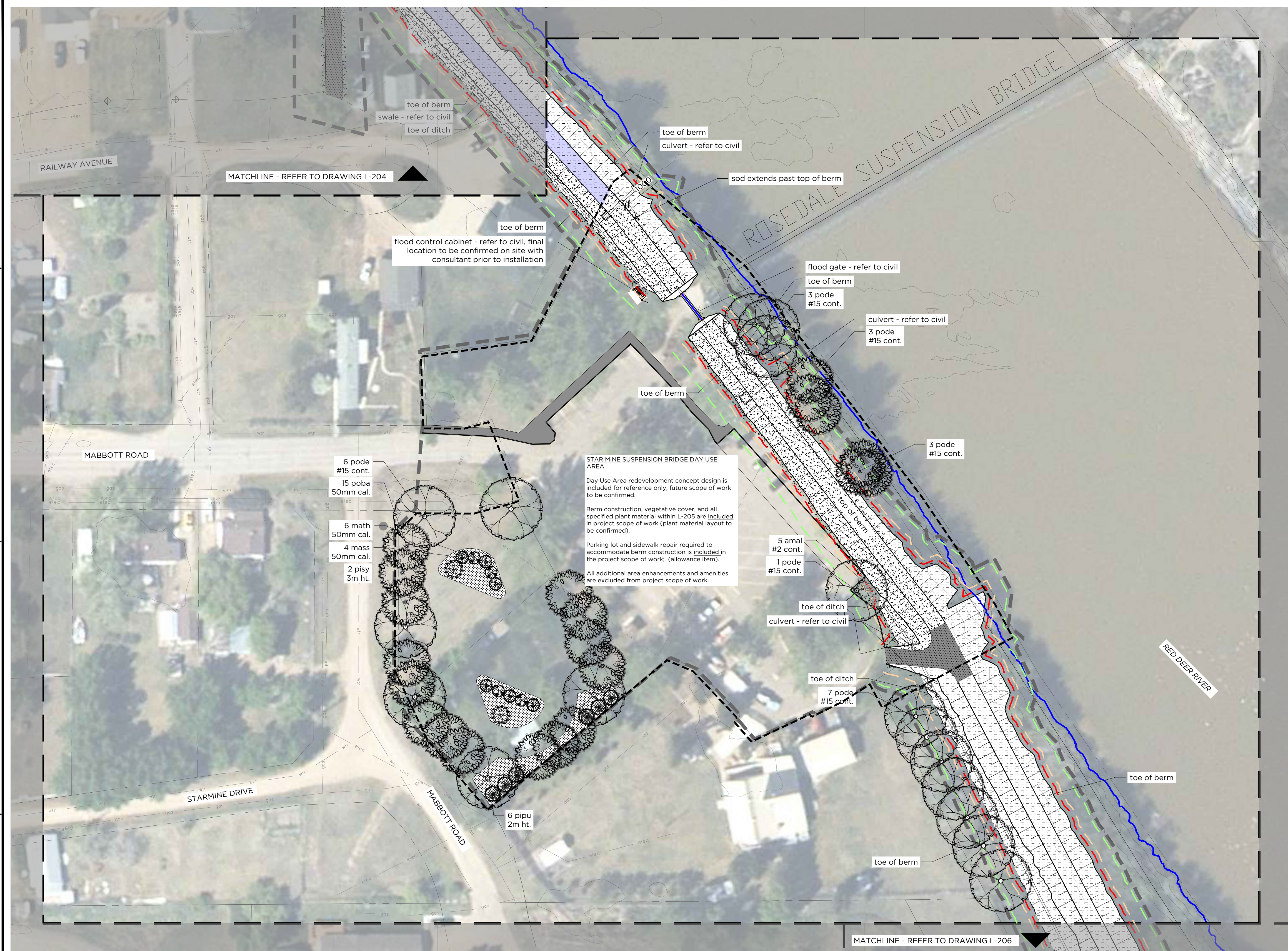
A1 LANDSCAPE PLAN

L-204 Scale 1:500



Rev	Date	Des	Dwn	Chk	Description	Rev	Date	Des	Dwn	Chk	Description
A	2024-11-06	G3	JAB	AK	ISSUED FOR TENDER						

DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE RESILIENCY AND FLOOD MITIGATION PROGRAM		
ROSEDALE & SCARLETT BERM LANDSCAPE PLAN		
Project No. 3446-005	Drawing No. L-204	Rev. A
Group LANDSCAPE		



Legend

- construction extents (approximate)
- - - property lines
- - - approximate limit of berm construction
- - - 2m offset from toe of berm
- - - 5m offset from toe of berm

Existing Utilities

refer to civil engineering drawings

- wtr water line
- san storm line
- elec electrical line
- gas gas line

Civil

refer to civil engineering drawings

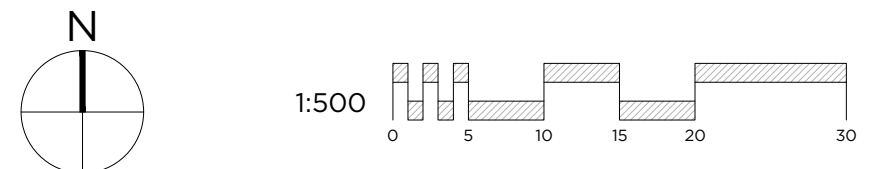
- 1:2 high water mark
- rip rap
- gravel surfacing

Subgrade & Soil Preparation

- exposed and/or steep slopes
biodegradable erosion control blanket for erosion control and shaded microclimate

Planting

- seed mix 4
- specialty sod
- wood mulch
- proposed trees
- proposed shrubs



A1 LANDSCAPE PLAN

L-205 Scale 1:500



Rev	Date	Des	Dwn	Chk	Description	Rev	Date	Des	Dwn	Chk	Description
A	2024-11-06	G3	JAB	AK	ISSUED FOR TENDER						

**DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE
RESILIENCY AND FLOOD MITIGATION PROGRAM**

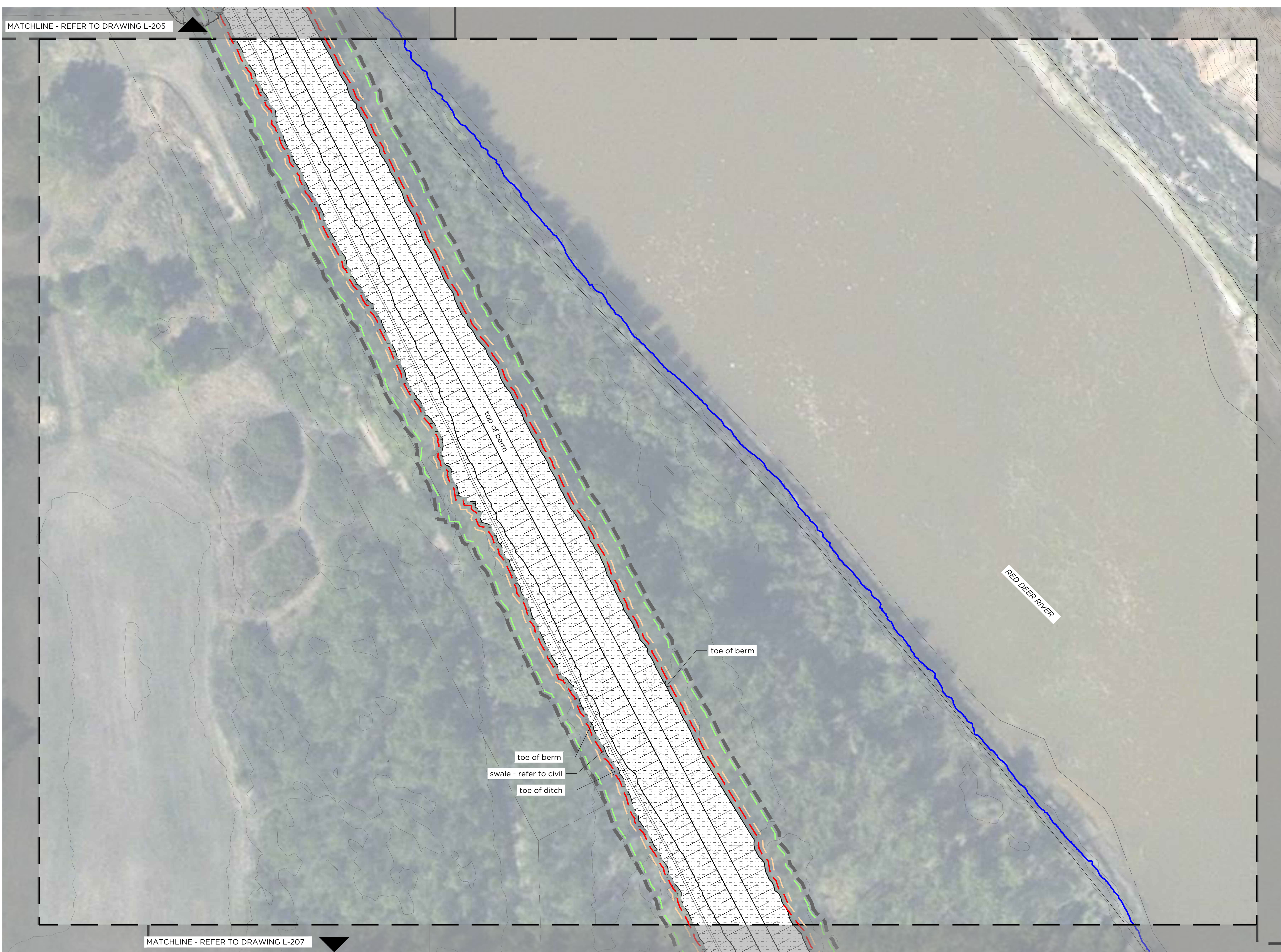
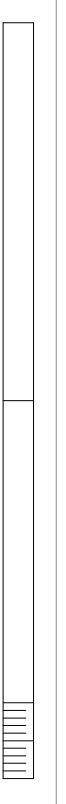
**ROSEDALE & SCARLETT BERM
LANDSCAPE PLAN**

Project No. **3446-005** Drawing No. **L-205** Rev. **A**

Group **LANDSCAPE**

SAVED 2024/11/05 11:55 AM

100
 Paper Size = ANSI D
 At Full Size, this border measures 20 mm x 80 mm



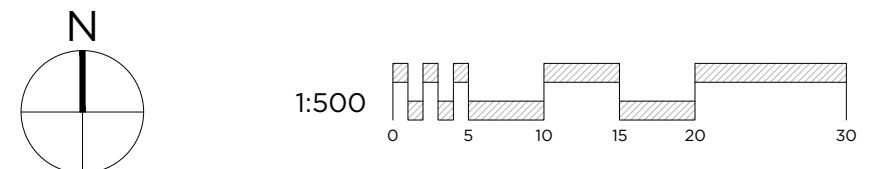
- Legend**
- construction extents (approximate)
 - property lines
 - approximate limit of berm construction
 - 2m offset from toe of berm
 - 5m offset from toe of berm

- Existing Utilities**
 refer to civil engineering drawings
- water line
 - storm line
 - electrical line
 - gas line

- Civil**
 refer to civil engineering drawings
- 1:2 high water mark
 - rip rap
 - gravel surfacing

- Subgrade & Soil Preparation**
- exposed and/or steep slopes
 biodegradable erosion control blanket
 for erosion control and shaded microclimate

- Planting**
- seed mix 4
 - specialty sod
 - wood mulch
 - proposed trees
 - proposed shrubs



A1 LANDSCAPE PLAN

L-206 Scale 1:500



Seal:

Rev	Date	Des	Dwn	Chk	Description	Rev	Date	Des	Dwn	Chk	Description
A	2024-11-06	G3	JAB	AK	ISSUED FOR TENDER						

**DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE
 RESILIENCY AND FLOOD MITIGATION PROGRAM**

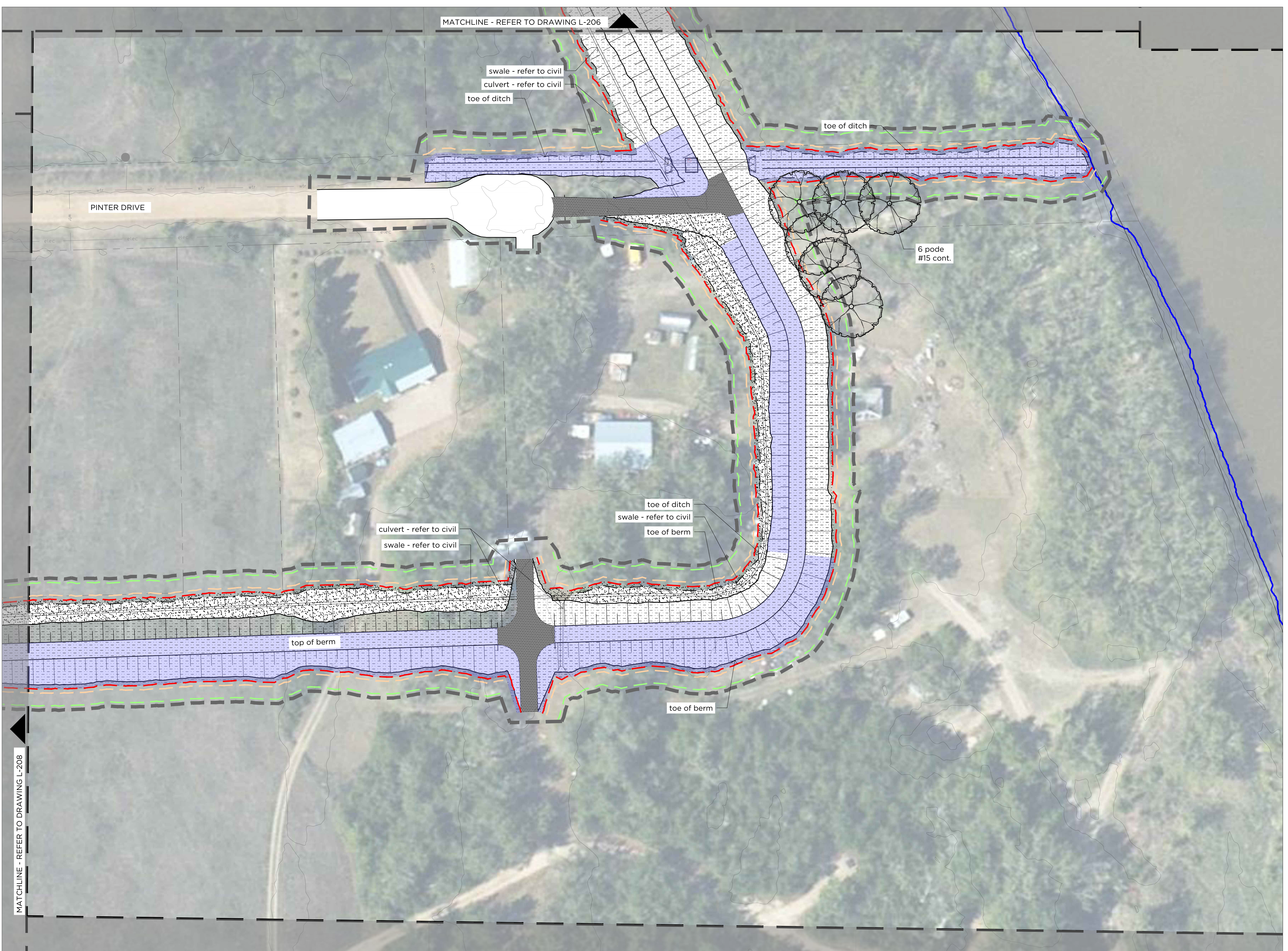
**ROSEDALE & SCARLETT BERM
 LANDSCAPE PLAN**

Project No.	3446-005	Drawing No.	L-206	Rev.	A
Group	LANDSCAPE				

SAVED: 2024/11/05, 1:17 PM

Page Size = ANSI D
At Full Size, this border measures 20 mm x 800 mm

100
50
0
millimetres



Legend

	construction extents (approximate)
	property lines
	approximate limit of berm construction
	2m offset from toe of berm
	5m offset from toe of berm

Existing Utilities
refer to civil engineering drawings

	water line
	storm line
	electrical line
	gas line

Civil
refer to civil engineering drawings

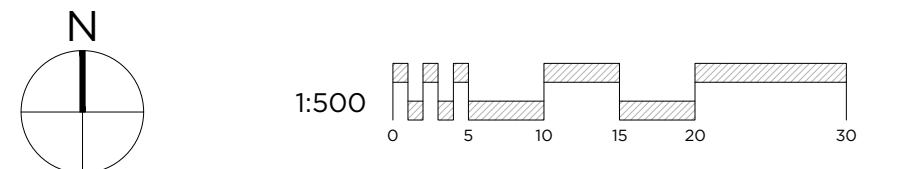
	1:2 high water mark
	rip rap
	gravel surfacing

Subgrade & Soil Preparation

	exposed and/or steep slopes biodegradable erosion control blanket for erosion control and shaded microclimate
--	---

Planting

	seed mix 4
	specialty sod
	wood mulch
	proposed trees
	proposed shrubs



A1 LANDSCAPE PLAN

L-207 Scale 1:500



Seal:

Rev	Date	Des	Dwn	Chk	Description	Rev	Date	Des	Dwn	Chk	Description
A	2024-11-06	G3	JAB	AK	ISSUED FOR TENDER						

**DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE
RESILIENCY AND FLOOD MITIGATION PROGRAM**

**ROSDALE & SCARLETT BERM
LANDSCAPE PLAN**

Project No. 3446-005	Drawing No. L-207	Rev. A
Group LANDSCAPE		

SAVED 2024/11/05 11:55 AM

100
50
0
millimetres
Paper Size = ANSI D
At Full Size, this border measures 50 mm x 80 mm

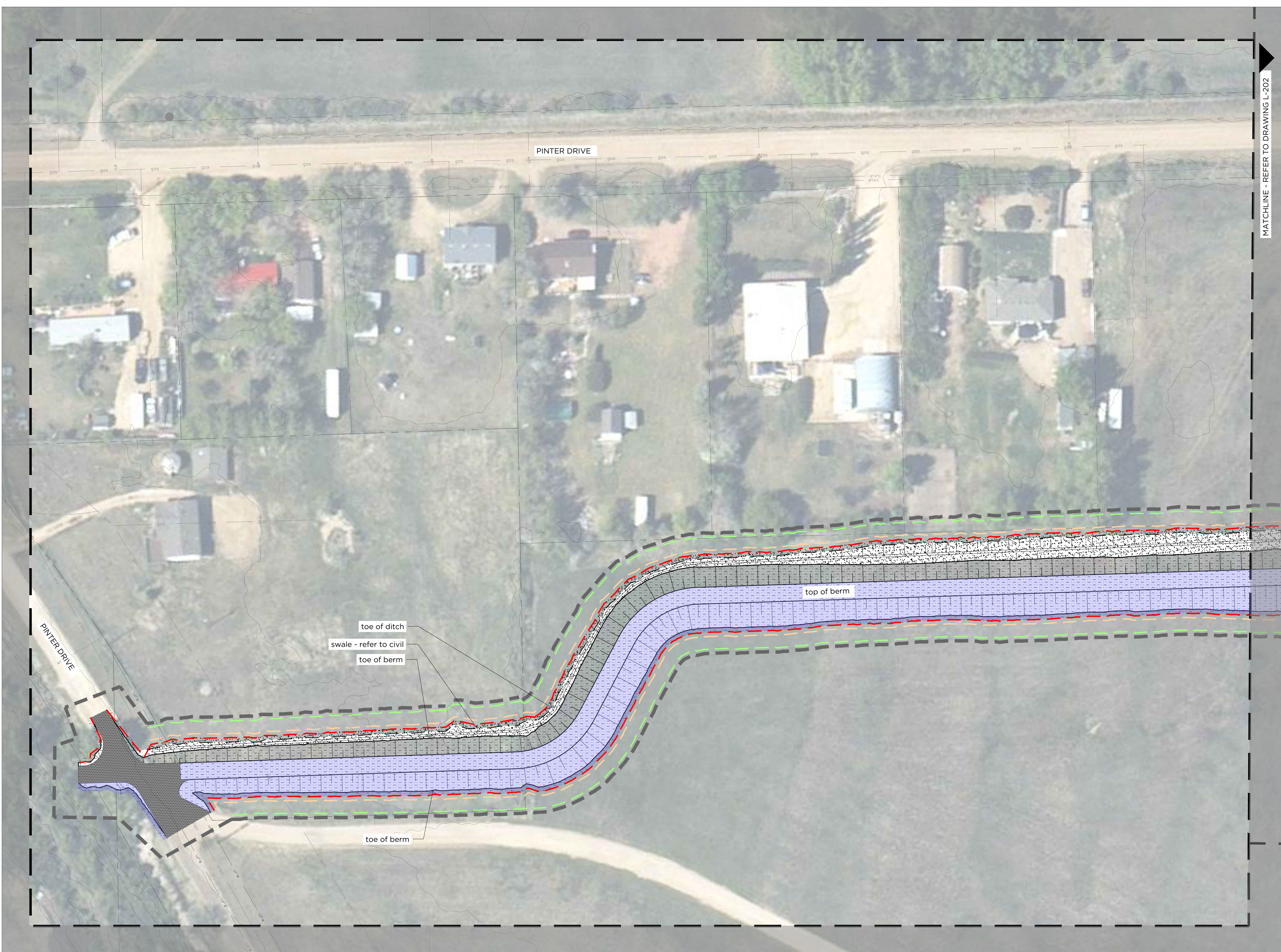
100
50
0
millimetres

A

B

C

D



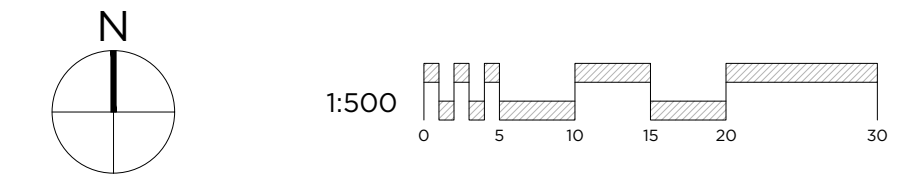
- Legend**
- construction extents (approximate)
 - property lines
 - approximate limit of berm construction
 - 2m offset from toe of berm
 - 5m offset from toe of berm

- Existing Utilities**
refer to civil engineering drawings
- water line
 - storm line
 - electrical line
 - gas line

- Civil**
refer to civil engineering drawings
- 1:2 high water mark
 - rip rap
 - gravel surfacing

- Subgrade & Soil Preparation**
- exposed and/or steep slopes
biodegradable erosion control blanket
for erosion control and shaded microclimate

- Planting**
- seed mix 4
 - specialty sod
 - wood mulch
 - proposed trees
 - proposed shrubs



A1 LANDSCAPE PLAN

L-208 Scale 1:500



Seal:

Rev	Date	Des	Dwn	Chk	Description
A	2024-11-06	G3	JAB	AK	ISSUED FOR TENDER

Rev	Date	Des	Dwn	Chk	Description

**DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE
RESILIENCY AND FLOOD MITIGATION PROGRAM**

**ROSDALE & SCARLETT BERM
LANDSCAPE PLAN**

Project No. **3446-005** Drawing No. **L-208** Rev. **A**

Group **LANDSCAPE**



Legend

	construction extents (approximate)
	property lines
	approximate limit of berm construction
	2m offset from toe of berm
	5m offset from toe of berm

Existing Utilities
 refer to civil engineering drawings

	wtr	water line
	san	storm line
	elec	electrical line
	gas	gas line

Civil
 refer to civil engineering drawings

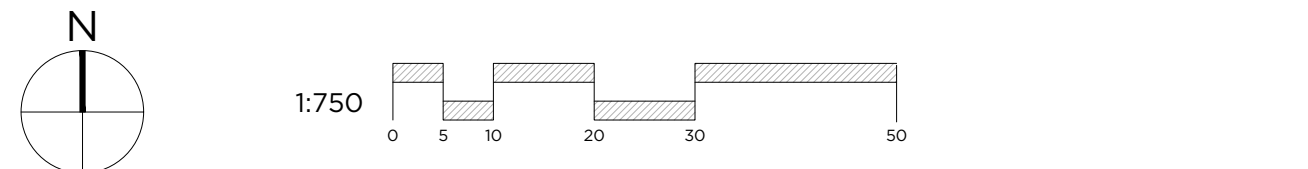
	1:2 high water mark
	rip rap
	gravel surfacing

Subgrade & Soil Preparation

	exposed and/or steep slopes biodegradable erosion control blanket for erosion control and shaded microclimate
--	---

Planting

	seed mix 4
	specialty sod
	wood mulch
	proposed trees
	proposed shrubs



A1 LANDSCAPE PLAN

L-209 Scale 1:750



Rev	Date	Des	Dwn	Chk	Description
A	2024-11-06	G3	JAB	AK	ISSUED FOR TENDER

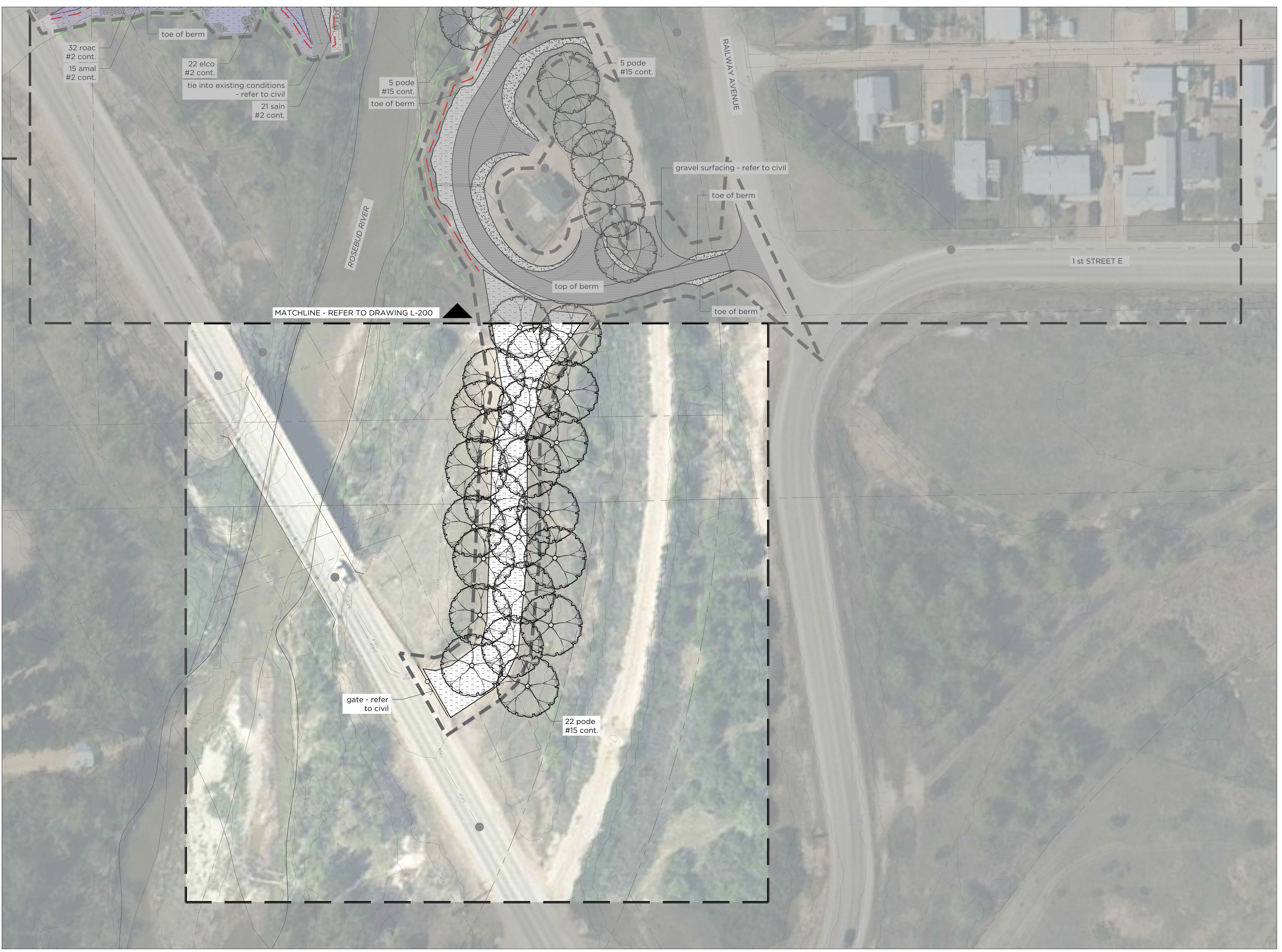
Rev	Date	Des	Dwn	Chk	Description

DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE
 RESILIENCY AND FLOOD MITIGATION PROGRAM

ROSDALE & SCARLETT BERM
 LANDSCAPE PLAN

Project No. 3446-005	Drawing No. L-209	Rev. A
Group LANDSCAPE		

100
 50
 25
 0
 millimetres
 Saved: 2024-11-05 11:55 AM
 Page Size = ANSI D
 At Full Size, this border measures 50 mm x 800 mm



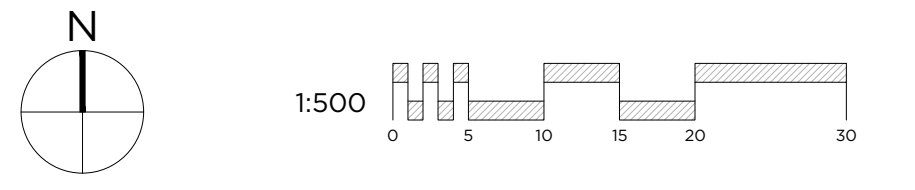
- ### Legend
- construction extents (approximate)
 - property lines
 - approximate limit of berm construction
 - 2m offset from toe of berm
 - 5m offset from toe of berm

- ### Existing Utilities
- refer to civil engineering drawings
- wtr water line
 - san storm line
 - elec electrical line
 - gas gas line

- ### Civil
- refer to civil engineering drawings
- 1:2 high water mark
 - rip rap
 - gravel surfacing

- ### Subgrade & Soil Preparation
- exposed and/or steep slopes
biodegradable erosion control blanket
for erosion control and shaded microclimate

- ### Planting
- seed mix 4
 - specialty sod
 - wood mulch
 - proposed trees
 - proposed shrubs



A1 LANDSCAPE PLAN
L-210 Scale 1:500



Rev	Date	Des	Dwn	Chk	Description	Rev	Date	Des	Dwn	Chk	Description
A	2024-11-06	G3	JAB	AK	ISSUED FOR TENDER						

DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE
RESILIENCY AND FLOOD MITIGATION PROGRAM

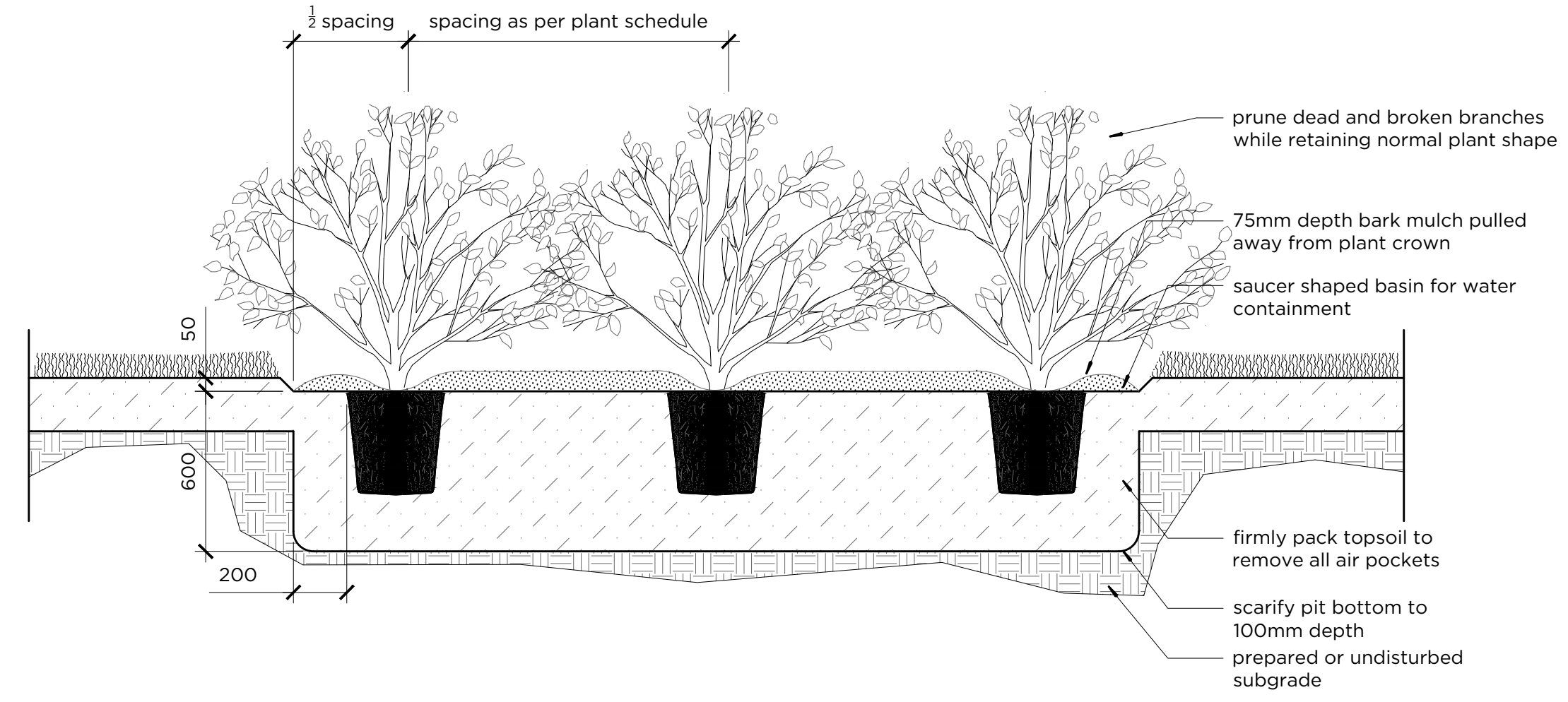
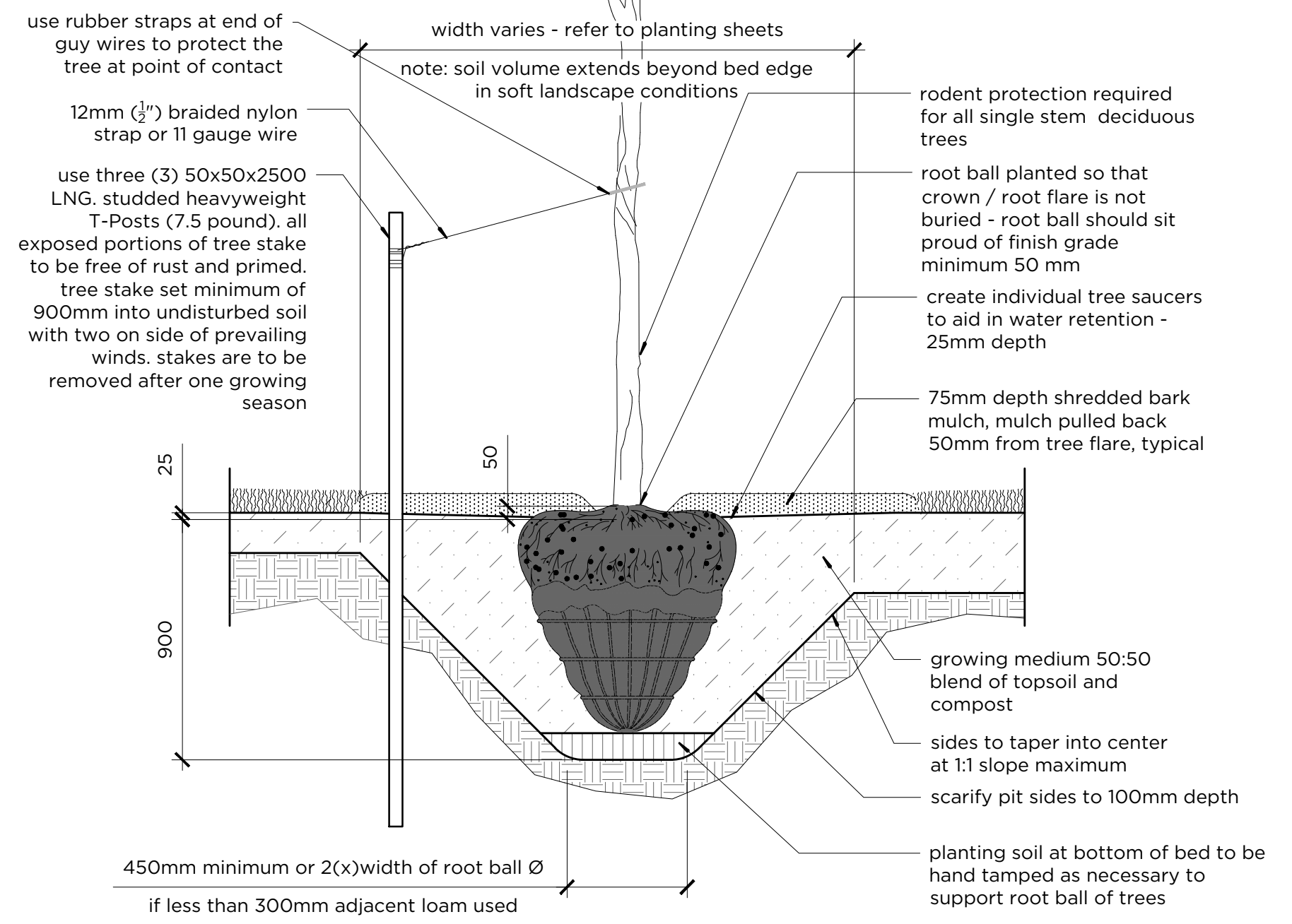
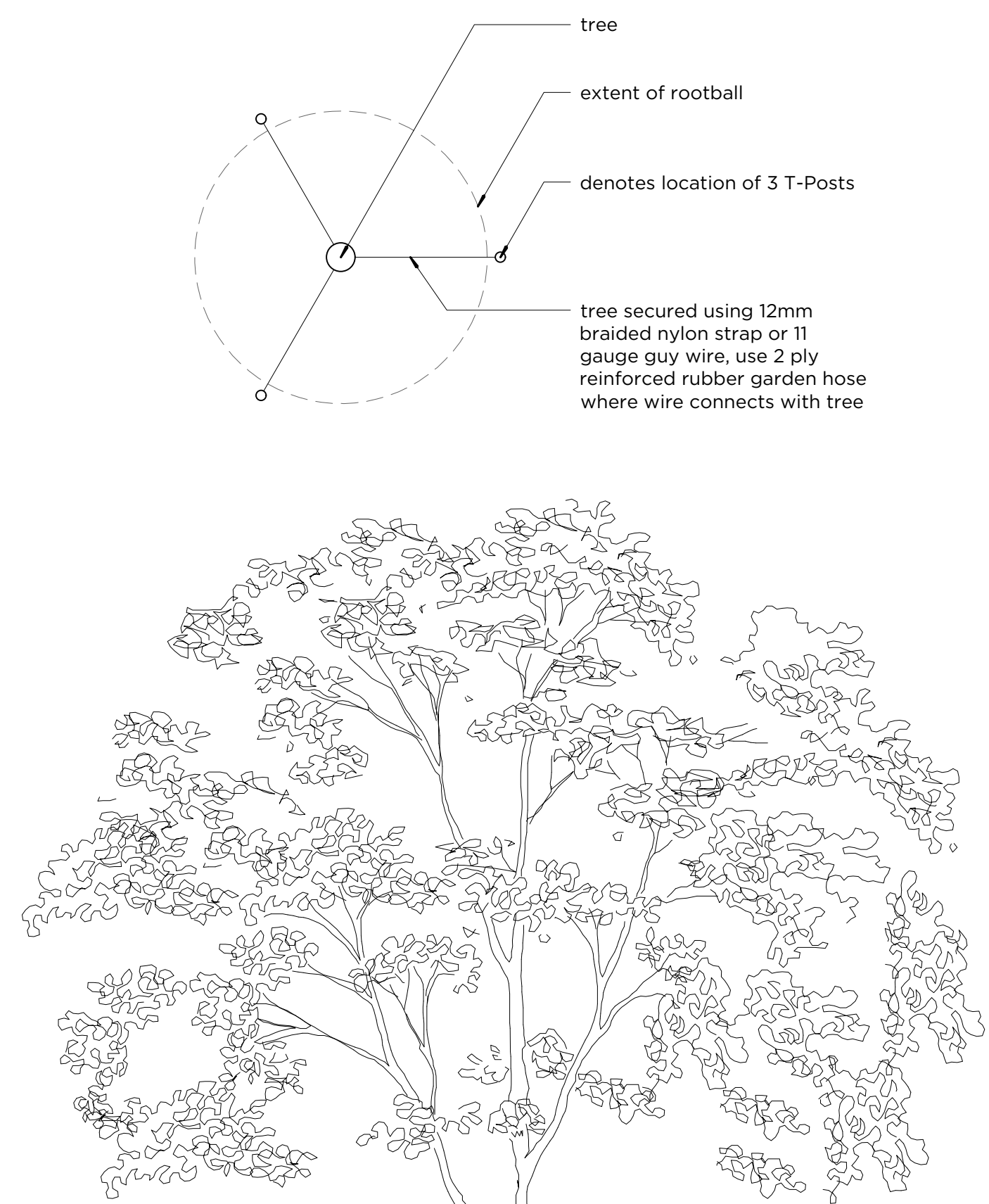
ROSEDALE & SCARLETT BERM
LANDSCAPE PLAN

Project No. **3446-005** Drawing No. **L-210** Rev. **A**
Group **LANDSCAPE**

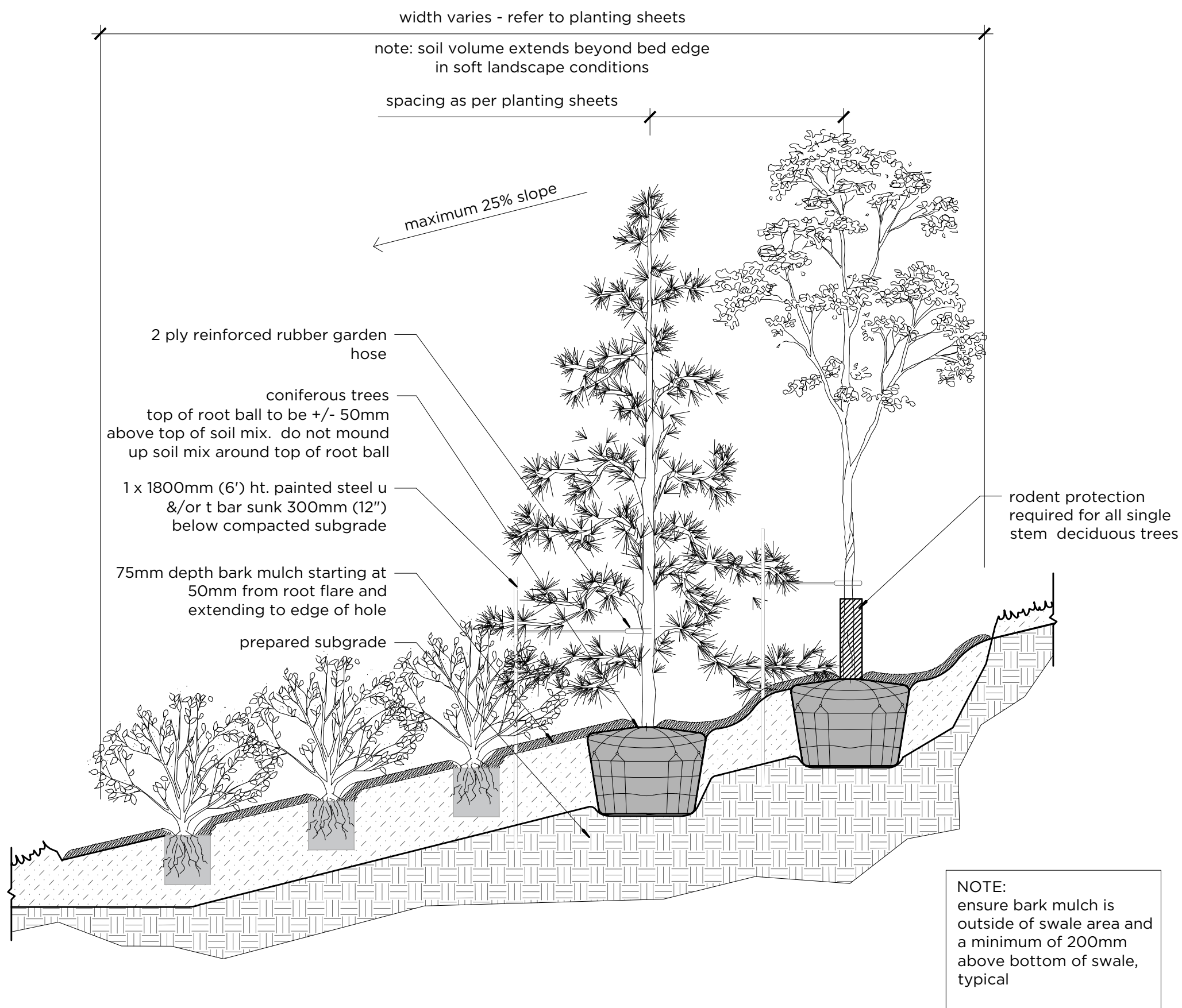
SAVED 2024/11/05 11:55 AM

Paper Size = ANSI D
At Full Size, this border measures 50 mm x 80 mm

100
50
0
millimetres



C3 SHRUB PLANTING
L-300 Scale 1:20



A3 PLANTING ON SLOPE
L-300 Scale 1:40

Notes

- bark mulch shall not be used for trees and shrubs on the wet side of the flood protection berms or within drainage ditches / swales.

A1 TREE PLANTING
L-300 Scale 1:20



Rev	Date	Des	Dwn	Chk	Description
A	2024-11-06	G3	JAB	AK	ISSUED FOR TENDER

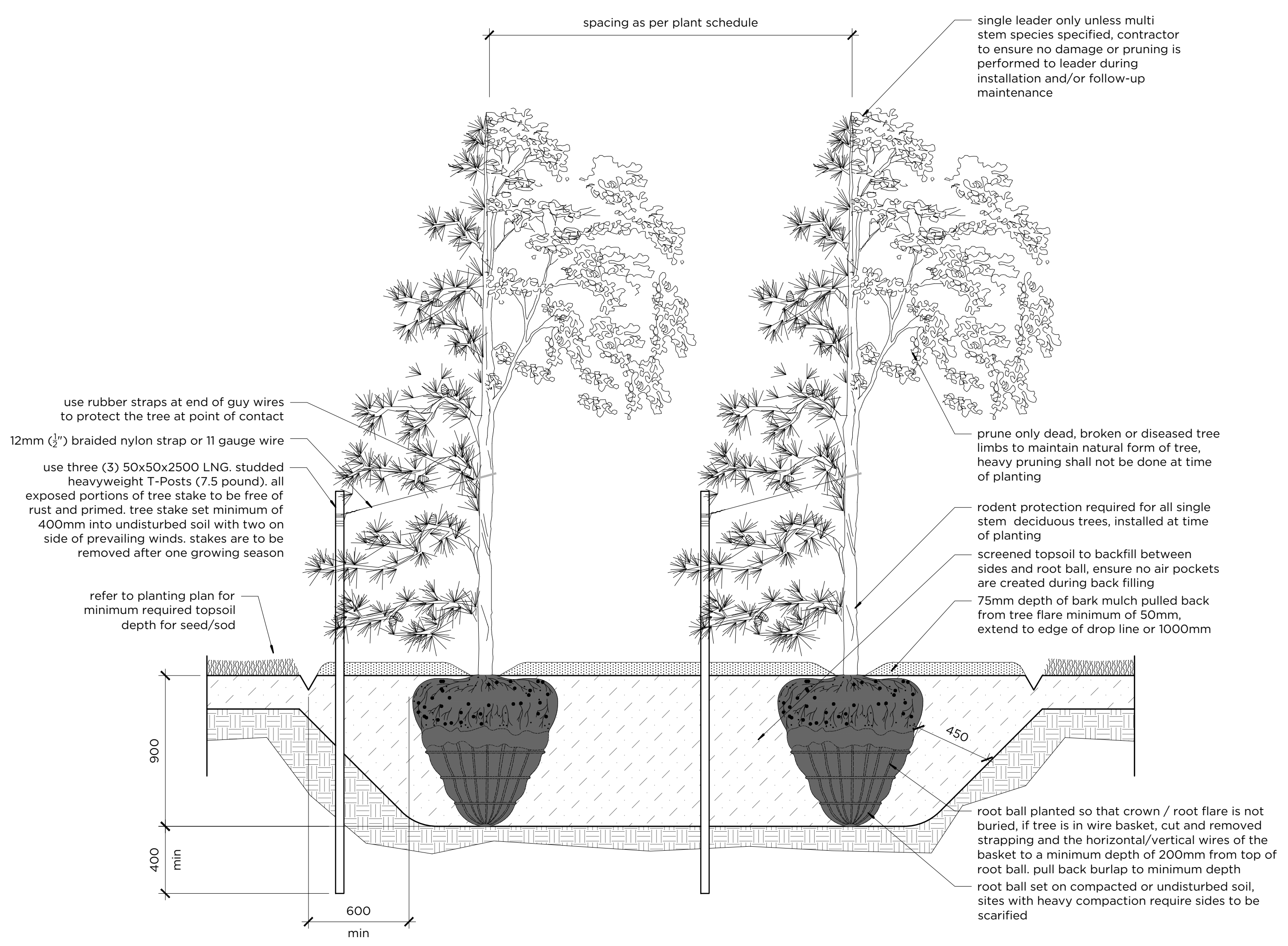
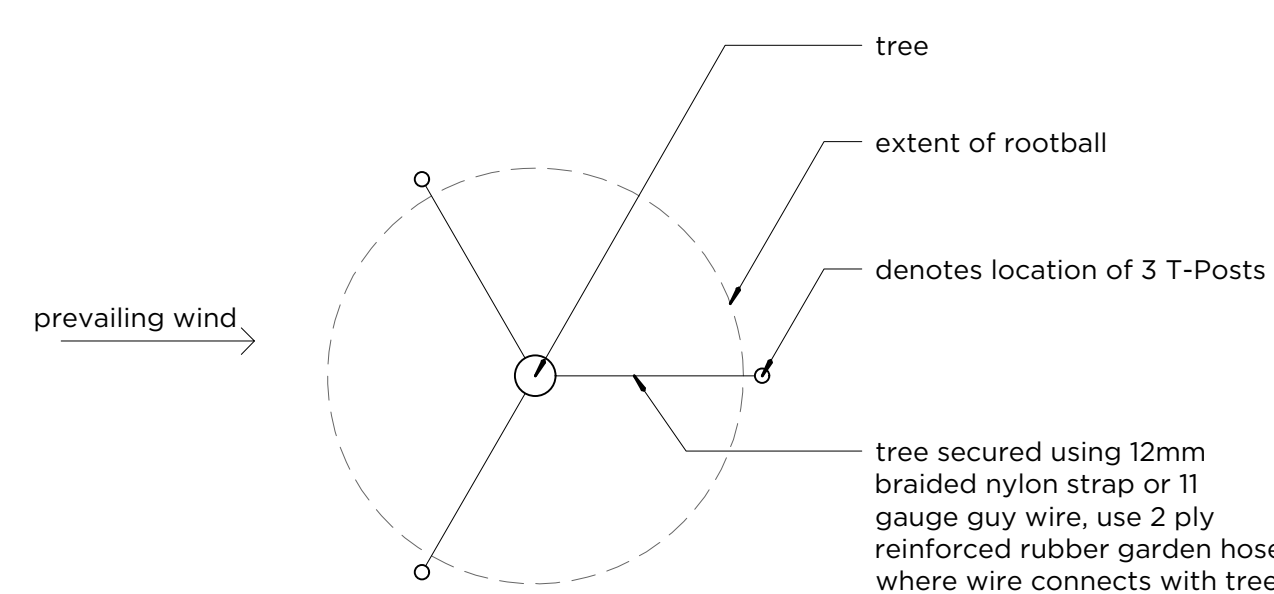
Rev	Date	Des	Dwn	Chk	Description

**DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE
RESILIENCY AND FLOOD MITIGATION PROGRAM**

**ROSDALE & SCARLETT BERM
LANDSCAPE DETAILS**

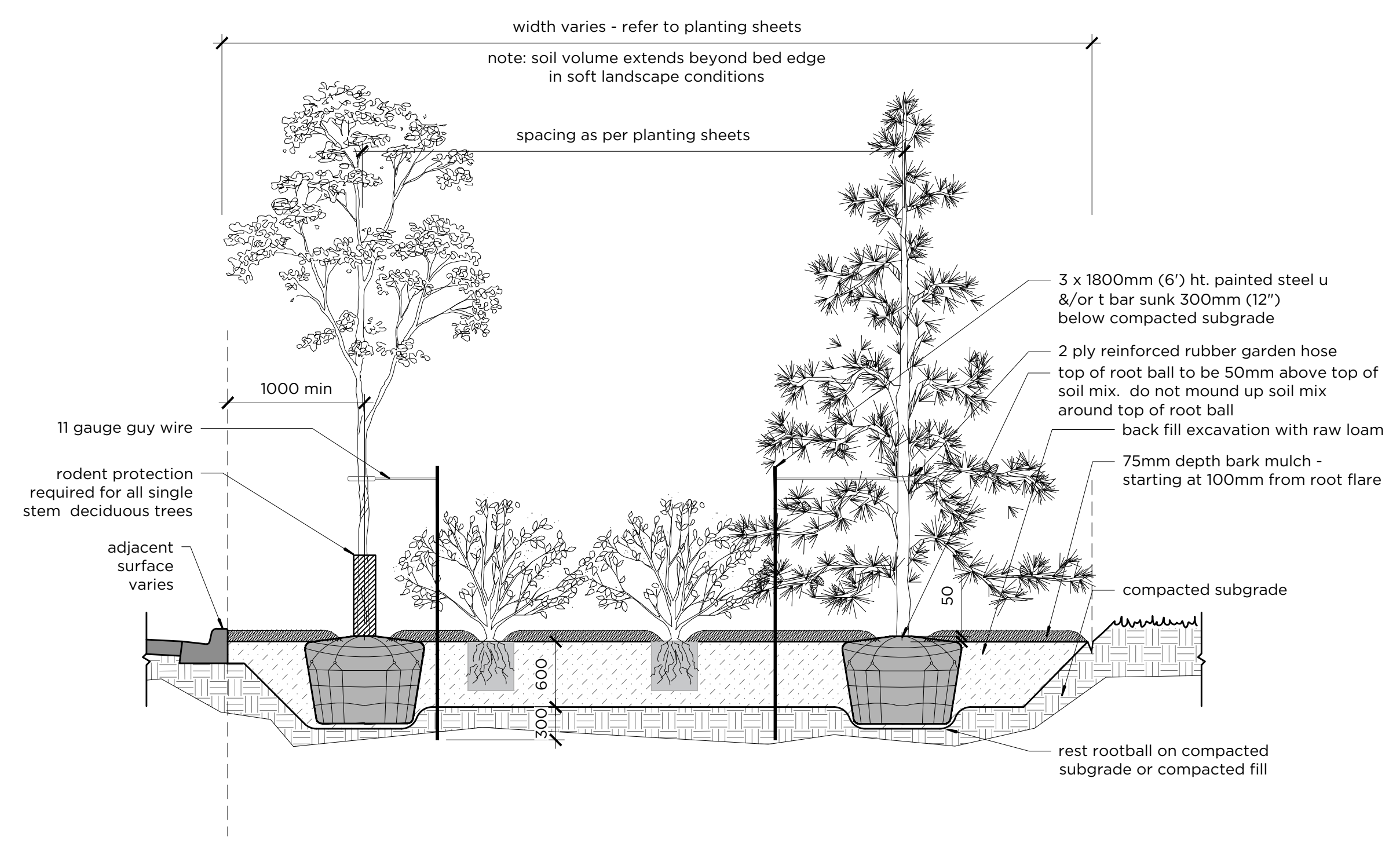
Project No. **3446-005** Drawing No. **L-300** Rev. **A**

Group **LANDSCAPE**



A1 GROUPED TREE PLANTING BED

L-301 Scale 1:20



A4 GROUPED TREE AND SHRUB PLANTING BED

L-301 Scale 1:40

Seal:

Rev	Date	Des	Dwn	Chk	Description
A	2024-11-06	G3	JAB	AK	ISSUED FOR TENDER

Rev	Date	Des	Dwn	Chk	Description



DRUMHELLER RESILIENCY & FLOOD MITIGATION OFFICE
RESILIENCY AND FLOOD MITIGATION PROGRAM

ROSEDALE & SCARLETT BERM
LANDSCAPE DETAILS

Project No.	3446-005	Drawing No.	L-301	Rev.	A
Group	LANDSCAPE				