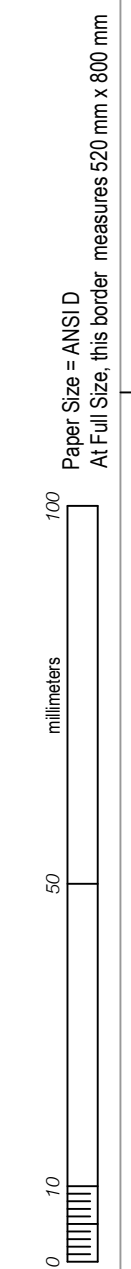
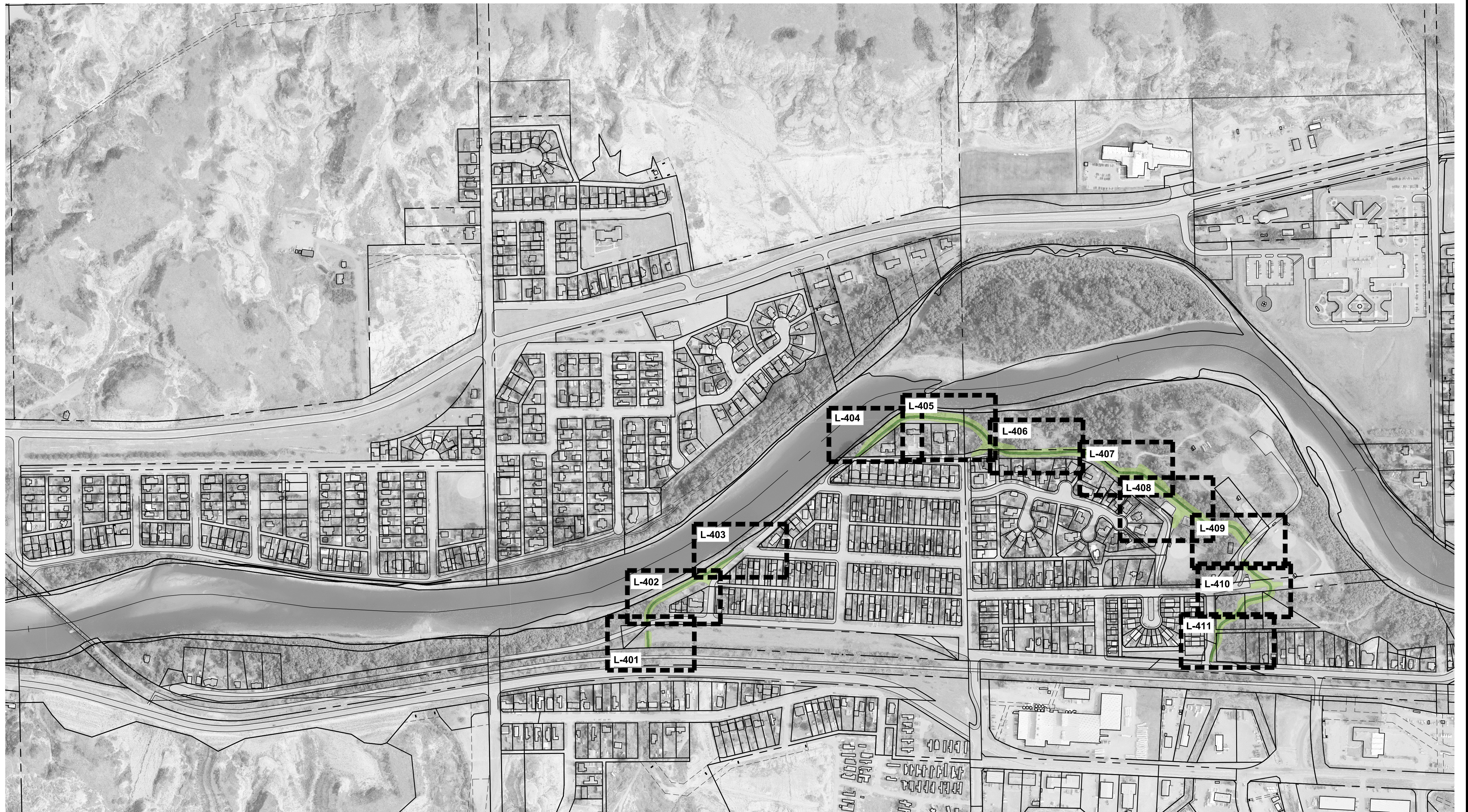


TOWN OF DRUMHELLER

NEWCASTLE DIKE LANDSCAPE PLANTING TENDER PACKAGE

DRAWING LIST

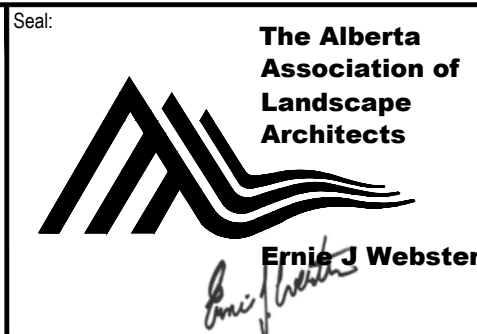
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L-100	LANDSCAPE COVER SHEET & KEY PLAN
L-401	PLANTING PLAN
L-402	PLANTING PLAN
L-403	PLANTING PLAN
L-404	PLANTING PLAN
L-405	PLANTING PLAN
L-406	PLANTING PLAN
L-407	PLANTING PLAN
L-408	PLANTING PLAN
L-409	PLANTING PLAN
L-410	PLANTING PLAN
L-411	PLANTING PLAN
L-412	PLANTING PLAN



PLAN
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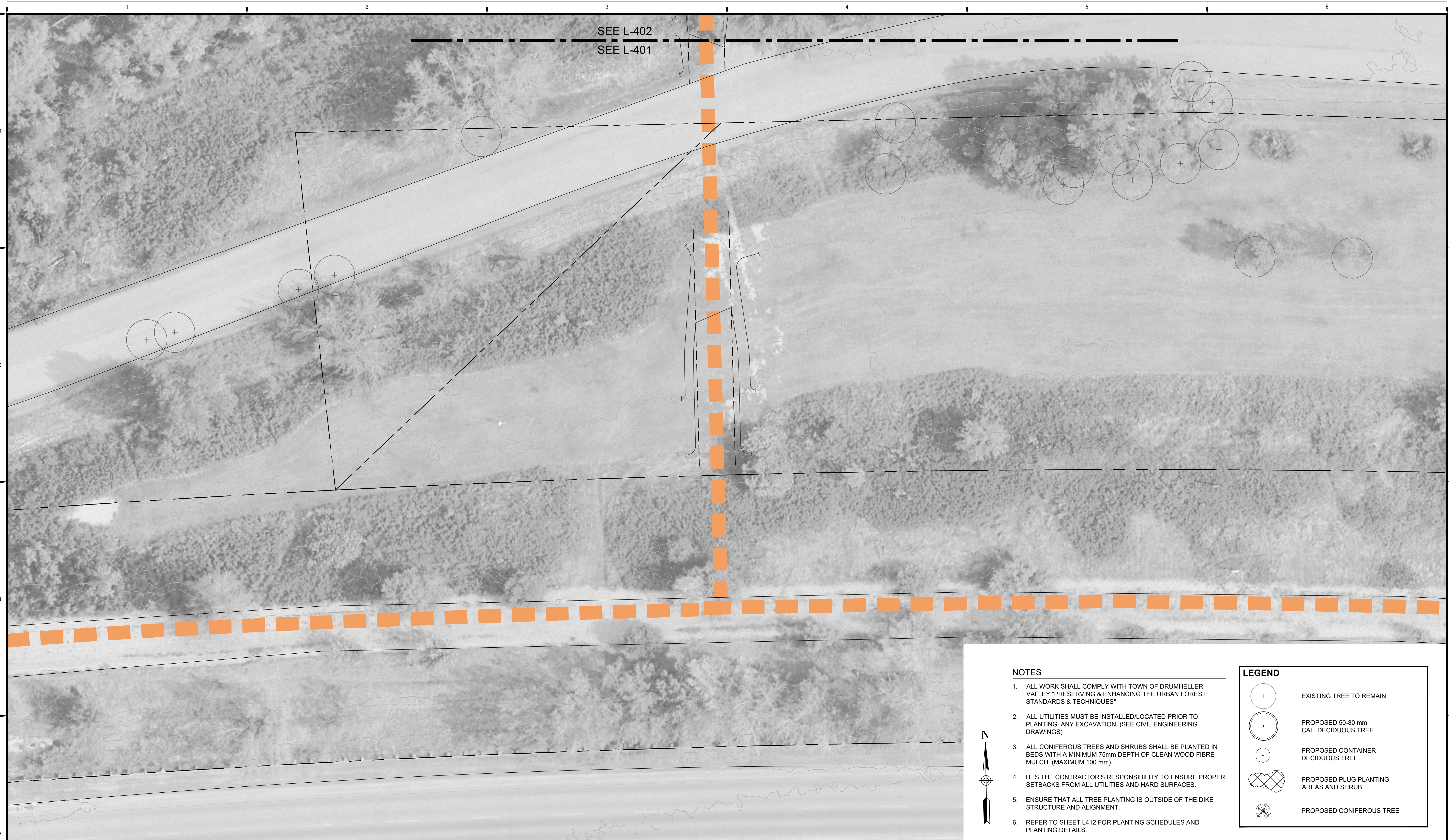
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TOWN OF DRUMHELLER NEWCASTLE DIKE	
LANDSCAPE PLANTING COVER SHEET & KEY PLAN	
Project No. 133142	Drawing No. L-100
Group LANDSCAPE	Rev. 0

SEE L-402
SEE L-401



NOTES

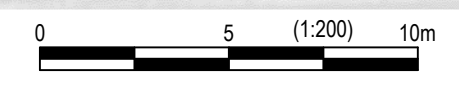
1. ALL WORK SHALL COMPLY WITH TOWN OF DRUMHELLER VALLEY "PRESERVING & ENHANCING THE URBAN FOREST: STANDARDS & TECHNIQUES"
2. ALL UTILITIES MUST BE INSTALLED/LOCATED PRIOR TO PLANTING ANY EXCAVATION. (SEE CIVIL ENGINEERING DRAWINGS)
3. ALL CONIFEROUS TREES AND SHRUBS SHALL BE PLANTED IN BEDS WITH A MINIMUM 75mm DEPTH OF CLEAN WOOD FIBRE MULCH. (MAXIMUM 100 mm).
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE PROPER SETBACKS FROM ALL UTILITIES AND HARD SURFACES.
5. ENSURE THAT ALL TREE PLANTING IS OUTSIDE OF THE DIKE STRUCTURE AND ALIGNMENT.
6. REFER TO SHEET L412 FOR PLANTING SCHEDULES AND PLANTING DETAILS.

LEGEND

- EXISTING TREE TO REMAIN
- PROPOSED 50-80 mm CAL. DECIDUOUS TREE
- PROPOSED CONTAINER DECIDUOUS TREE
- PROPOSED PLUG PLANTING AREAS AND SHRUB
- PROPOSED CONIFEROUS TREE

PLAN

Scale 1:200



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TOWN OF DRUMHELLER
NEWCASTLE DIKE

PLANTING PLAN

Project No. **133142**
Group **LANDSCAPE**

Drawing No.

L-401 Rev. **0**



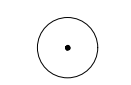




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PLAN
Scale 1:200

LEGEND

-  EXISTING TREE TO REMAIN
-  PROPOSED 50-80 mm CAL. DECIDUOUS TREE
-  PROPOSED CONTAINER DECIDUOUS TREE
-  PROPOSED PLUG PLANTING AREAS AND SHRUB
-  PROPOSED CONIFEROUS TREE



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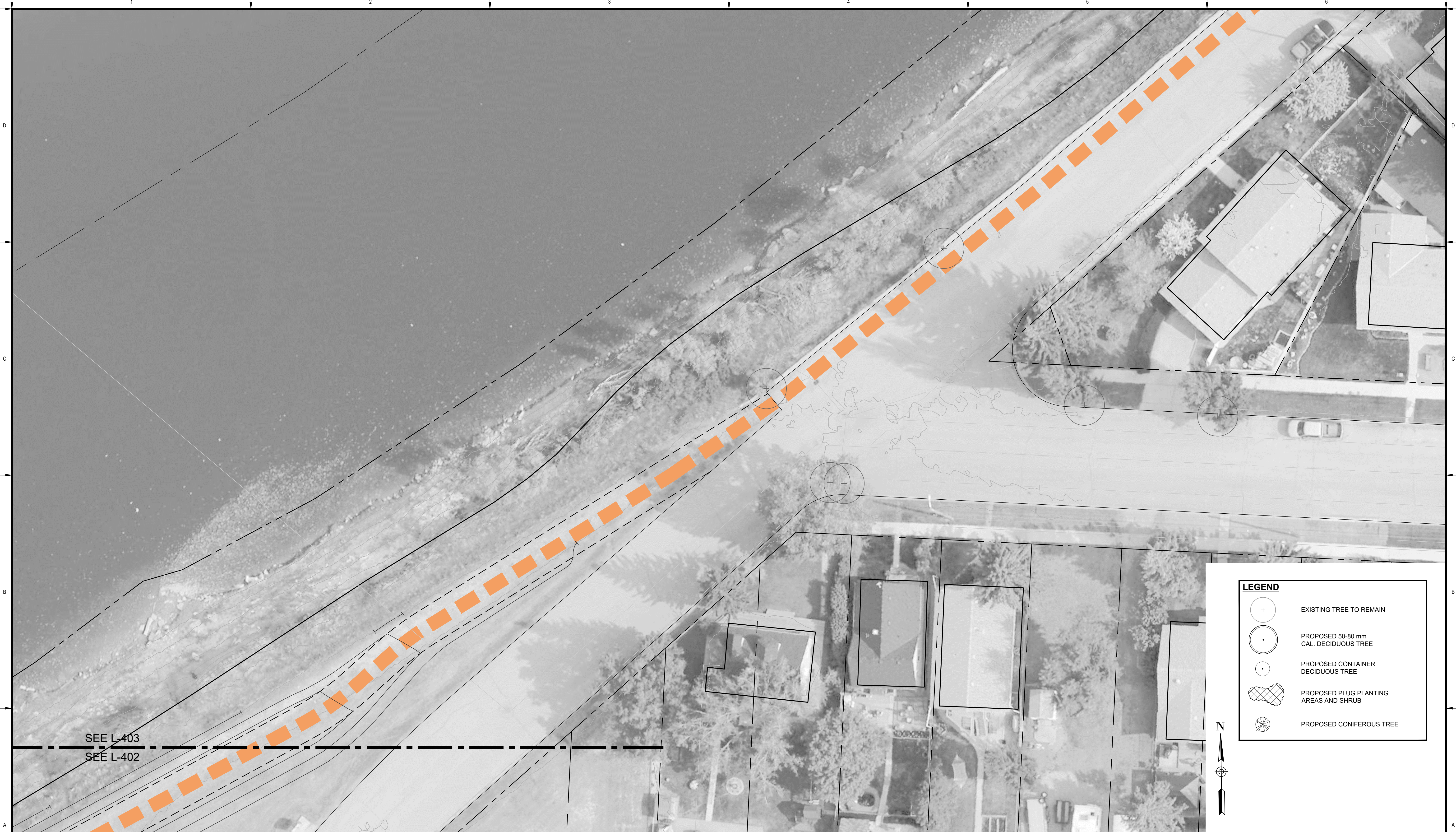
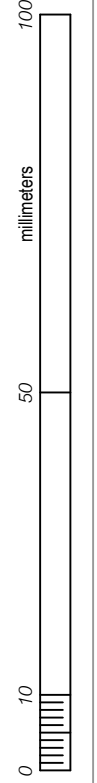
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**TOWN OF DRUMHELLER
NEWCASTLE DIKE**

PLANTING PLAN

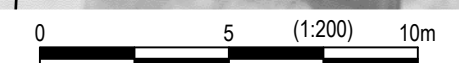
Project No. **133142** Drawing No. **L-402** Rev. **0**
 Group **LANDSCAPE**



SEE L-403
 SEE L-402

LEGEND	
	EXISTING TREE TO REMAIN
	PROPOSED 50-80 mm CAL. DECIDUOUS TREE
	PROPOSED CONTAINER DECIDUOUS TREE
	PROPOSED PLUG PLANTING AREAS AND SHRUB
	PROPOSED CONIFEROUS TREE

PLAN
 Scale 1:200



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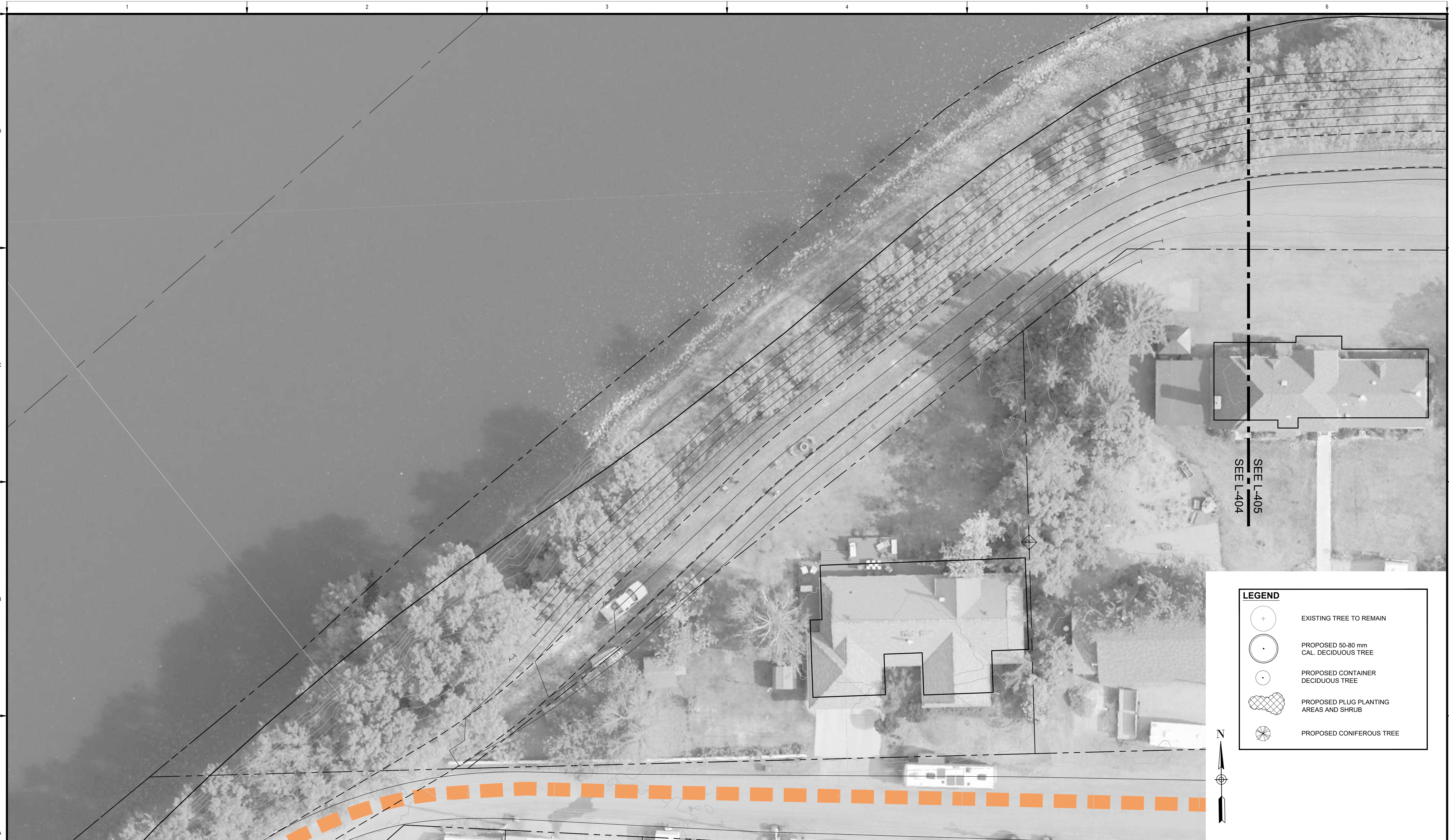
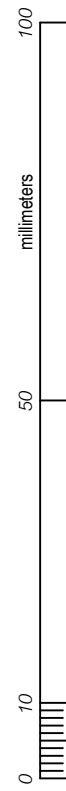


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TOWN OF DRUMHELLER
 NEWCASTLE DIKE

PLANTING PLAN

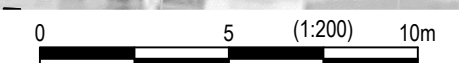
Project No. **133142** Drawing No. **L-403** Rev. **0**
 Group **LANDSCAPE**



SEE L-405
 SEE L-404

LEGEND	
	EXISTING TREE TO REMAIN
	PROPOSED 50-80 mm CAL. DECIDUOUS TREE
	PROPOSED CONTAINER DECIDUOUS TREE
	PROPOSED PLUG PLANTING AREAS AND SHRUB
	PROPOSED CONIFEROUS TREE

PLAN
 Scale 1:200



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TOWN OF DRUMHELLER
 NEWCASTLE DIKE

PLANTING PLAN

Project No. 133142	Drawing No. L-404	Rev. 0
Group LANDSCAPE		



LEGEND

- EXISTING TREE TO REMAIN
- PROPOSED 50-80 mm CAL. DECIDUOUS TREE
- PROPOSED CONTAINER DECIDUOUS TREE
- PROPOSED PLUG PLANTING AREAS AND SHRUB
- PROPOSED CONIFEROUS TREE



PLAN
 Scale 1:200



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**TOWN OF DRUMHELLER
 NEWCASTLE DIKE**

PLANTING PLAN

Project No. **133142** Drawing No. **L-405** Rev. **0**
 Group **LANDSCAPE**



FIELD FIT NEW PLANTING WITH EXISTING MATURE VEGETATION

10 BLACK COTTONWOOD
9 EASTERN COTTONWOOD (#15 CONT.)

4 BLACK COTTONWOOD (70mm CAL.)

4 BLACK COTTONWOOD
6 MANITOBA MAPLE (#15 CONT.)

(32m²) SEEDLING / SHRUB MIXTURE:
13 MANITOBA MAPLE
9 RED OSIER DOGWOOD
10 SASKATOON

FIELD FIT NEW PLANTING WITH EXISTING MATURE VEGETATION

5 BLACK COTTONWOOD (#15 CONT.)
1 COLORADO SPRUCE (1.5m HT.)

5 EASTERN COTTONWOOD (70mm CAL.)

FIELD FIT NEW PLANTING WITH EXISTING MATURE VEGETATION

5 MANITOBA MAPLE
8 EASTERN COTTONWOOD (#15 CONT.)

(32m²) SEEDLING / SHRUB MIXTURE:
11 BLACK COTTONWOOD
7 SASKATOON
14 SILVER BUFFALOBERRY

1 EASTERN COTTONWOOD (70mm CAL.)

(32m²) SEEDLING / SHRUB MIXTURE:
7 EASTERN COTTONWOOD
12 BLACK COTTONWOOD
13 SILVER BUFFALOBERRY

LEGEND

- EXISTING TREE TO REMAIN
- PROPOSED 50-80 mm CAL. DECIDUOUS TREE
- PROPOSED CONTAINER DECIDUOUS TREE
- PROPOSED PLUG PLANTING AREAS AND SHRUB
- PROPOSED CONIFEROUS TREE

PLAN

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**TOWN OF DRUMHELLER
NEWCASTLE DIKE**

PLANTING PLAN

Project No. **133142**
Group **LANDSCAPE**

Drawing No.

L-406 Rev. **0**



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 SEE L-406
 SEE L-407
 SEE L-408
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PLAN
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TOWN OF DRUMHELLER NEWCASTLE DIKE	
PLANTING PLAN	
Project No. 133142	Drawing No. L-407
Group LANDSCAPE	Rev. 0



PLAN
 Scale 1:200



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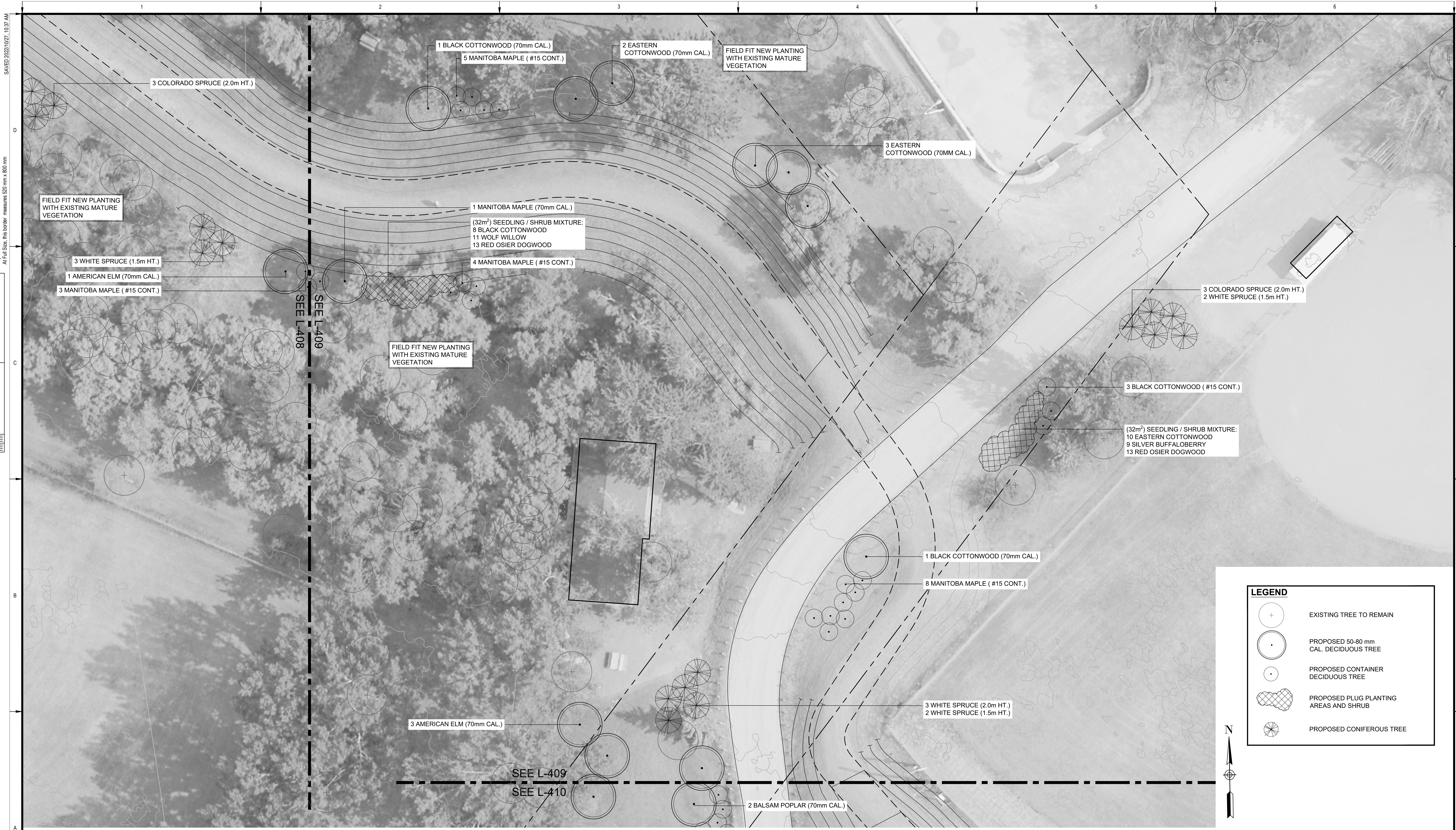
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Rev	Date	Des	Dwn	Chk	Description

**TOWN OF DRUMHELLER
 NEWCASTLE DIKE**

PLANTING PLAN

Project No. **133142** Drawing No. **L-408** Rev. **0**
 Group **LANDSCAPE**



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PLAN

Scale 1:200



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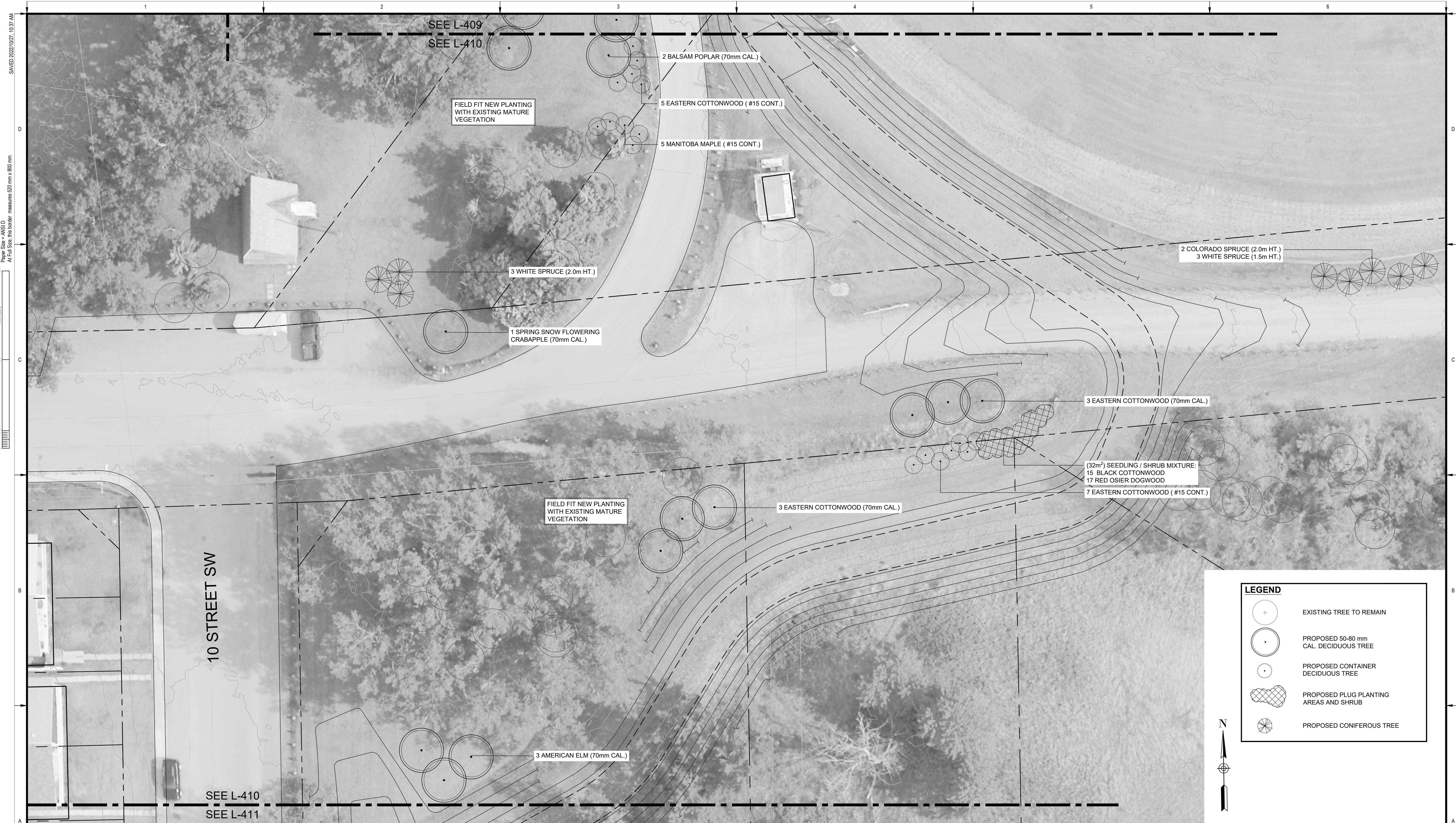


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**TOWN OF DRUMHELLER
NEWCASTLE DIKE**

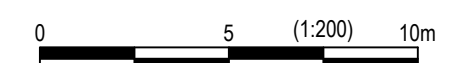
PLANTING PLAN

Project No. **133142** Drawing No. **L-409** Rev. **0**
 Group **LANDSCAPE**



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PLAN
Scale 1:200



LEGEND	
	EXISTING TREE TO REMAIN
	PROPOSED 50-80 mm CAL. DECIDUOUS TREE
	PROPOSED CONTAINER DECIDUOUS TREE
	PROPOSED PLUG PLANTING AREAS AND SHRUB
	PROPOSED CONIFEROUS TREE



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TOWN OF DRUMHELLER NEWCASTLE DIKE	
PLANTING PLAN	
Project No. 133142	Drawing No. L-410
Group LANDSCAPE	Rev. 0



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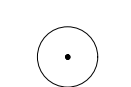


SEE L-410
SEE L-411

5 BLACK COTTONWOOD (#15 CONT.)

5 EASTERN COTTONWOOD
8 BLACK COTTONWOOD (#15 CONT.)

5 BALSAM POPLAR (70mm CAL.)

LEGEND

-  EXISTING TREE TO REMAIN
-  PROPOSED 50-80 mm CAL. DECIDUOUS TREE
-  PROPOSED CONTAINER DECIDUOUS TREE
-  PROPOSED PLUG PLANTING AREAS AND SHRUB
-  PROPOSED CONIFEROUS TREE



PLAN
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**TOWN OF DRUMHELLER
NEWCASTLE DIKE**

PLANTING PLAN

Project No. **133142** Drawing No. **L-411** Rev. **0**
 Group **LANDSCAPE**

TREE PLANTING SCHEDULE

Table with columns: QTY., BOTANICAL NAME, COMMON NAME, SIZE, CONDITION. Lists various tree species like Picea glauca, Acer negundo, Fraxinus pennsylvanica, etc.

SHRUB AND TREE SEEDLING SCHEDULE

Table with columns: QTY., BOTANICAL NAME, COMMON NAME, SIZE, CONDITION, SPACING. Lists seedlings like Acer negundo, Populus trichocarpa, etc.

TREE PLANTING STRATEGY

TOTAL NUMBER OF FAIR, GOOD AND VERY GOOD TREES TO BE REMOVED = 89
TOTAL NUMBER OF NEW TREES AND SHRUBS REQUIRED IN LIEU OF REMOVALS = 445

(AS PER THE TOWN OF DRUMHELLER "PRESERVING AND ENHANCING THE URBAN FOREST STANDARDS AND TECHNIQUES", WHERE A 5:1 RATIO OF PLANTING REPLACEMENT IS SPECIFIED, FOR EVERY 1 FAIR, GOOD, OR VERY GOOD TREE THAT IS REMOVED, 5 TREES/SHRUBS WILL BE PLANTED)

TOTAL REPLACEMENT PLANTS = 778 (333 ADDITIONAL PLANTS COMPENSATE FOR MIDLAND SHORTFALL)

BREAKDOWN:
MED-LARGE TREES (50-70mm CAL.) = 128 (16%)
SMALL CONTAINER GROWN TREES = 179 (23%)
SEEDLING TREES = 195 (25%)
SHRUBS = 276 (36%)

EXISTING TREE REMOVALS - NEWCASTLE

- EXISTING TREE TO BE REMOVED - VERY GOOD HEALTH QTY: 11
EXISTING TREE TO BE REMOVED - GOOD HEALTH QTY: 36
EXISTING TREE TO BE REMOVED - FAIR HEALTH QTY: 42
EXISTING TREE TO BE REMOVED - POOR HEALTH QTY: 57
EXISTING TREE TO BE REMOVED - VERY POOR HEALTH QTY: 44

NOTES

- ALL SHRUB AND TREE BEDS ARE TO BE LAID OUT IN THE FIELD AFTER COMPLETION OF THE DIKE GRADING...
ANY PROPOSED ALTERNATE PLANT MATERIALS SHOULD COME FROM THE LIST ABOVE AND BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO ORDERING.

Wet Tolerant Seed Mix 1 - Below 1:2-year high water mark - Application rate of 58 kg / ha.

Table with columns: BOTANICAL NAME, COMMON NAME, TARGET COVER, % OF SEED MIX (PLS), Kg REQUIRED (PLS). Lists grasses like Deschampsia cespitosa, Western Wheatgrass, etc.

Cover crop for Wet Tolerant Seed Mix 1: Add a cover crop of Beckmannia Syzigachne (Slough Grass) at 5 kg / ha in areas of highwater erosion prone areas.

Upland Seed Mix 2A - Upland Areas - Application rate of 58 kg / ha.

Table with columns: BOTANICAL NAME, COMMON NAME, TARGET COVER, % OF SEED MIX (PLS), Kg REQUIRED (PLS). Lists grasses like Northern Wheatgrass, Slender Wheatgrass, etc.

Cover Crop for Upland Seed Mix 2: Add a cover crop of Lolium multiflorum (Annual Ryegrass) at 5 kg / ha for entirety of Upland Seed Mix areas.

Seed Mix 3 - Top of Berm - Application rate of 50 kg / ha.

Table with columns: BOTANICAL NAME, COMMON NAME, TARGET COVER, % OF SEED MIX (PLS), Kg REQUIRED (PLS). Lists grasses like Northern Wheatgrass, Blue Grama, etc.

Cover crop for Top of Berm Seed Mix 3: Add a cover crop of Lolium multiflorum (Annual Ryegrass) at 5 kg / ha for entirety of Top of Berm Seed Mix areas.

Site Characteristics

Table with columns: Seeding Method, Habitat Type, Natural Subregion, Incorporation Method, Depth of Incorporation.

Site Characteristics

Table with columns: Seeding Method, Habitat Type, Natural Subregion, Incorporation Method, Depth of Incorporation.

Site Characteristics

Table with columns: Seeding Method, Habitat Type, Natural Subregion, Incorporation Method, Depth of Incorporation.

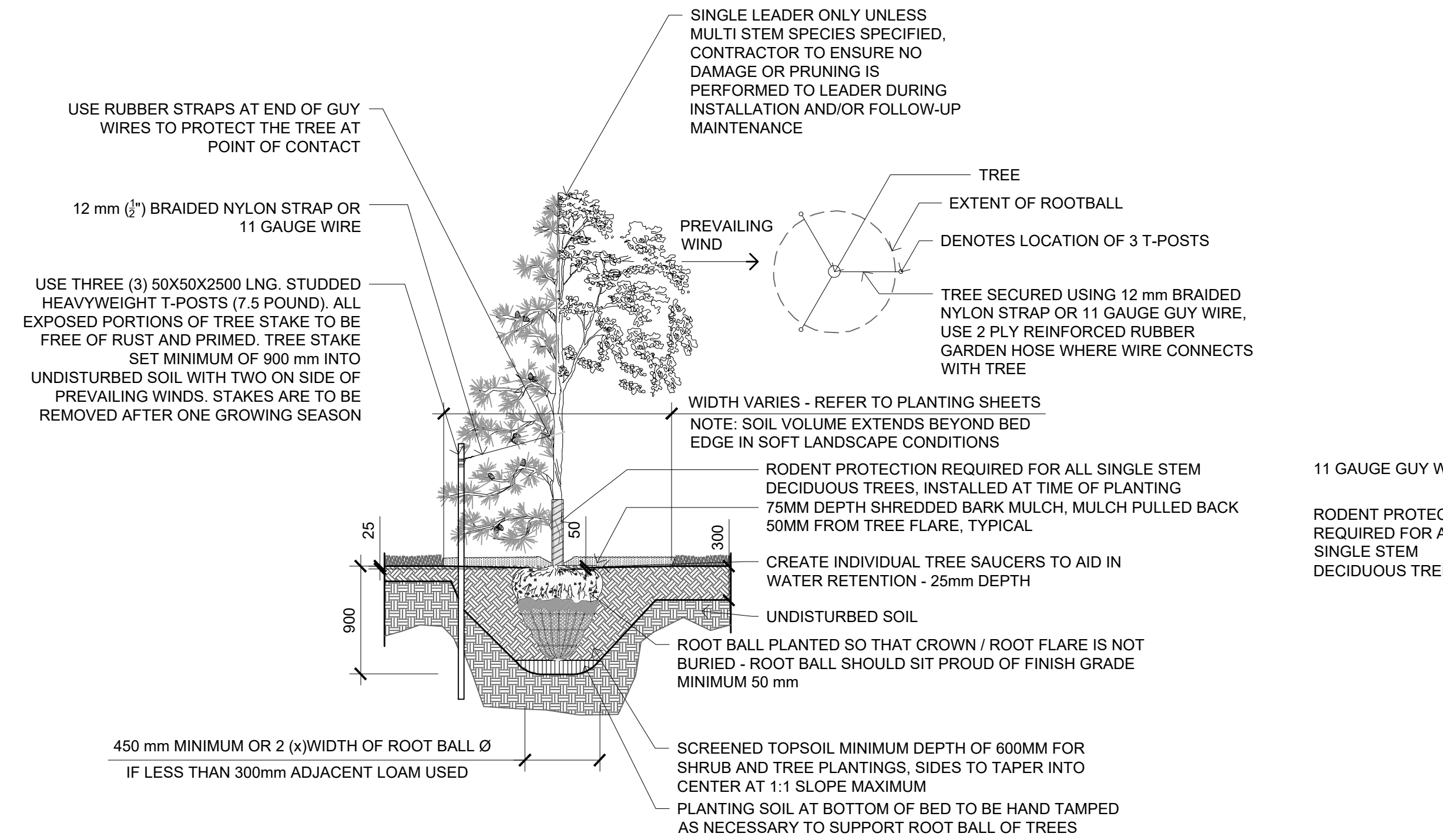
SEED MIX SCHEDULES AND SEEDING NOTES PROVIDED FOR REFERENCE ONLY, FOR AREAS REQUIRING REPAIR AND REHABILITATION AS PART OF THIS SCOPE OF WORK, REFER TO SPECIFICATIONS IN CONTRACT 1 - BERM CONSTRUCTION + SODDING/SEEDING.

SEEDING NOTES

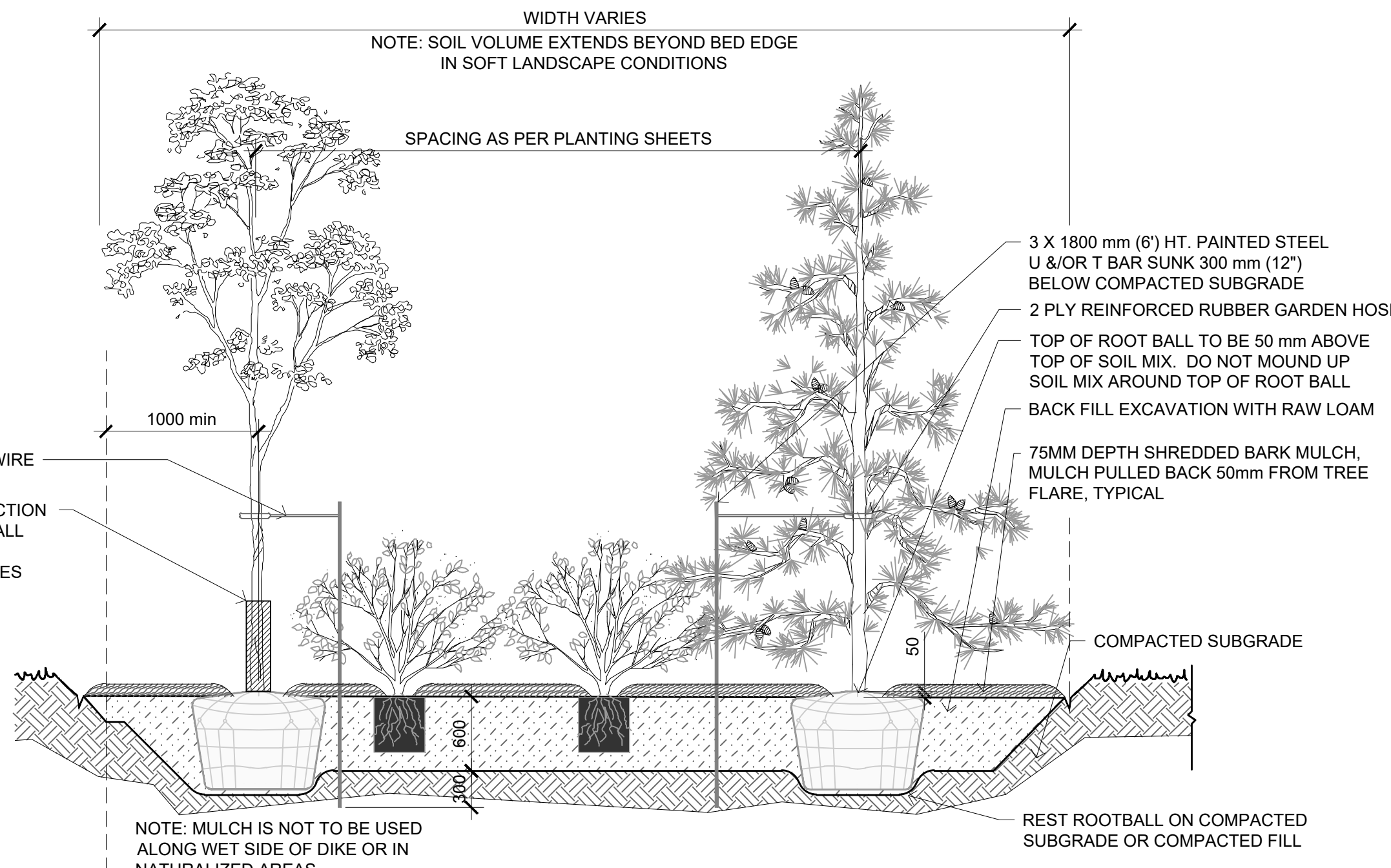
- ENSURE SEED MIXTURE IS FREE OF ANY WEED SEEDS LISTED AS "PROHIBITED NOXIOUS" OR "NOXIOUS" UNDER THE WEED CONTROL ACT...
FOR SLOPES 2:1 OR FLATTER AREAS TO BE SEED...
FOR STEEPER THAN 2:1 SLOPES OR SLOPES THAT ARE NOT EASILY ACCESSIBLE...
OPTIMAL SEEDING PERIODS FOR NATIVE GRASSES: 7.1. MID TO LATE MAY, EARLY JUNE - NO LATER THAN JUNE 15TH. 7.2. LATE SEPTEMBER - AFTER FIRST HARD FROST...

PLANTING NOTES

- ALL PLANT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE GUIDELINES AND SPECIFICATIONS OF DRUMHELLER VALLEY...
PLANT MATERIAL LIST WAS PREPARED FOR ESTIMATING PURPOSES ONLY...
THE OWNER'S REPRESENTATIVE WILL INSPECT PLANTS AT THE FOLLOWING STAGES...
STAKE OUT LOCATIONS OF TREES, SHRUBS AND PLANTING BEDS...
ENSURE ALL TREES AND SHRUBS ARE INSTALLED OUTSIDE OF DIKE EXTENTS...
CONTRACTOR SHALL VERIFY THAT ALL MINIMUM CLEARANCES ARE PROVIDED...
PART OF PLANT MATERIAL INSTALLATION SHALL INCLUDE SUFFICIENT PROTECTION TO PREVENT BARK AND TREE DAMAGE...
DISTURBANCES TO ADJACENT AREAS SHALL BE REPAIRED...
EROSION CONTROL MATTING REQUIRED ON ALL SLOPES GREATER THAN 3:1...
SLOPES > 3:1 AND < 2:1...
SLOPES > 2:1...
SC150 COCONUT AND STRAW FIBRE EROSION CONTROL MATTING...
ALL DEVELOPMENT AND CONSTRUCTION ACTIVITIES WITHIN 6 METERS OF EXISTING VEGETATION MUST BE SUPERVISED BY AN ISA...
ALL PRUNING OF EXISTING VEGETATION MUST BE SUPERVISED BY AN ISA CERTIFIED ARBORIST.



A STANDARD TREE PLANTING
SCALE 1:40



B MIXED PLANTING BED WITH MULCH
SCALE 1:40



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Revision table with columns: Rev, Date, Des, Dwn, Chk, Description. Row 0: 2022-10-28, EJV, MD, EJV, ISSUED FOR TENDER

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TOWN OF DRUMHELLER
NEWCASTLE DIKE
PLANTING PLAN
Project No: 133142
Group: LANDSCAPE
Drawing No: L-412
Rev: 0