

PARKS CANADA

ROUGE NATIONAL URBAN PARK TRAIL CONSTRUCTION

SOLICITATION NO. SP201-18-0184/A
WSP PROJECT No. 17M-01916-00
FALL 2018

DRAWING INDEX

L-200 KEY MAP

L-210 SEEDING PLAN

L-305 LAYOUT PLAN L-310 LAYOUT PLAN

L-310 LAYOUT PLAN
L-315 LAYOUT PLAN

L-320 LAYOUT PLAN

L-325 LAYOUT PLAN

L-330 LAYOUT PLAN

L-335 LAYOUT PLAN

L-340 LAYOUT PLAN

L-400 AREA ENLARGEMENT DETAILS

L-410 AREA ENLARGEMENT DETAILS

L-420 AREA ENLARGEMENT DETAILS

L-430 AREA ENLARGEMENT DETAILS

L-440 AREA ENLARGEMENT DETAILS
L-450 AREA ENLARGEMENT DETAILS

L-460 AREA ENLARGEMENT DETAILS

L-500 DETAILS

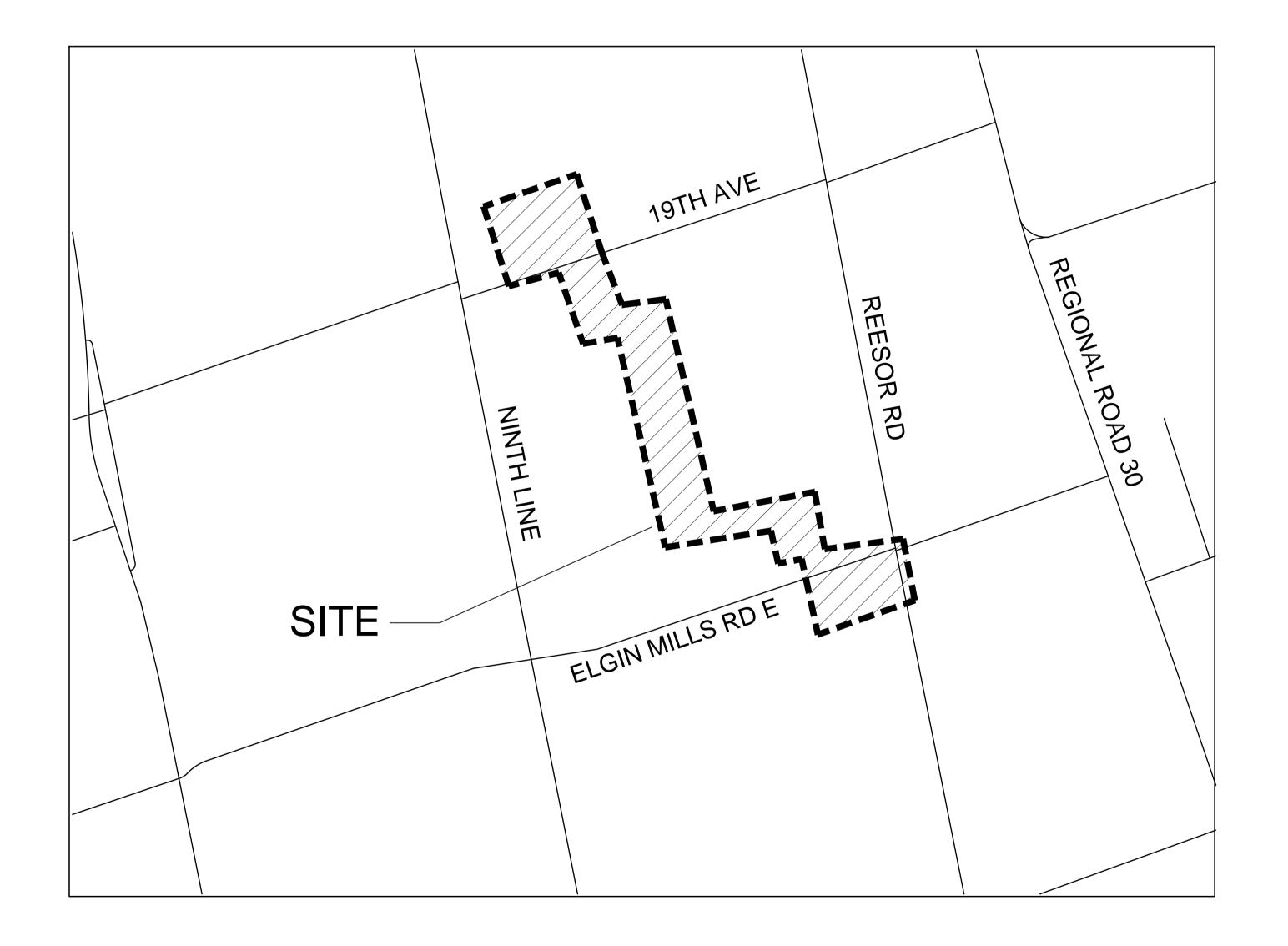
L-510 DETAILS

L-520 DETAILS

L-530 DETAILS

L-540 DETAILS

SITE AND ADJACENT PROPERTY CONTEXT:





GENERAL NOTES:

- ALL EXCAVATION WORK AND EQUIPMENT MOVEMENT SHALL BE RESTRICTED TO PARKING LOT WORK AREAS AND TRAIL
- CORRIDOR (2.4M WIDE TRAIL BED WHEREVER POSSIBLE, 6.0M TRAIL CORRIDOR MAXIMUM)
- CONTRACTOR TO REMOVE AND DISPOSE OF OFF-SITE AT NO ADDITIONAL COST TO THE CONTRACT ITEMS NOTED FOR REMOVAL INCLUDING BUT NOT LIMITED TO ALL ASPHALT PAVING, CONCRETE PAVING, AND SIGNAGE AS REQUIRED TO FACILITATE THE IMPLEMENTATION OF CHANGES AS PER PLANS AND DETAILS. ANY SIGNAGE OR ANY OTHER ITEMS IDENTIFIED BY THE PCA REPRESENTATIVE TO BE SALVAGED, SHALL BE STORED AT A LOCATION ON-SITE AS IDENTIFIED BY THE PCA REPRESENTATIVE.
- CONTRACTOR TO MAKE GOOD TO PCA REPRESENTATIVE'S APPROVAL ALL DAMAGES THAT OCCUR DURING CONSTRUCTION. • CONTRACTOR TO REVIEW DRAWINGS AND REPORT ANY ERRORS, OMISSIONS, AND / OR DISCREPANCIES TO PCA
- REPRESENTATIVE IN WRITING PRIOR TO CONSTRUCTION. PROPERTY LINES TO BE VERIFIED PRIOR TO INITIATING ANY
- EXTENT OF WORK SHOWN IS TO CONVEY INTENT ONLY. EXTENT OF CONSTRUCTION IS TO BE VERIFIED ON SITE PRIOR TO CONSTRUCTION. IF THERE IS AMBIGUITY OR LACK OF INFORMATION, THE CONTRACTOR SHALL IMMEDIATELY INFORM THE PCA REPRESENTATIVE. THE CONTRACTOR MAY BE HELD RESPONSIBLE TO REMOVE ANY CHANGES MADE WITHOUT WRITTEN PERMISSION OF THE PCA REPRESENTATIVE.
- ALL CONSTRUCTION TO BE CARRIED OUT IN ACCORDANCE WITH THE MOST CURRENT DESIGN STANDARDS, CRITERIA, AND SPECIFICATIONS FORM THE ONTARIO BUILDING CODE, THE ONTARIO PROVINCIAL STANDARD DETAIL, THE ONTARIO PROVINCIAL STANDARD SPECIFICATION AND LANDSCAPE ONTARIO.
- CONTRACTOR TO ENSURE PROPER DEPTH OF EXCAVATIONS ACCOMMODATE HARD SURFACE AND LANDSCAPING AS SPECIFIED ON THESE DRAWINGS.
- CONTRACTOR IS RESPONSIBLE FOR ALL FEES ARISING FROM THE COMPLETION OF WORKS CONVEYED BY THESE DRAWINGS AND IN THE SPECIFICATION PACKAGE. FEES INCLUDE BUT ARE NOT LIMITED TO SECURITIES, PERMIT FEES,
- DEPOSITS, APPLICATION FEES, LETTERS OF CREDIT, OR ANY OTHER RELATED FUNDING REQUIREMENTS. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ALL UNDERGROUND SERVICES INCLUDING LIGHT STANDARD ELECTRICAL
- LINES. • QUALIFIED REGISTERED LAND SURVEYOR (OLS), ACCEPTABLE TO PCA REPRESENTATIVE. TO LOCATE, CONFIRM AND PROTECT CONTROL POINTS PRIOR TO STARTING SITE WORK. PRESERVE PERMANENT REFERENCE POINTS DURING
- CONSTRUCTION. ESTABLISH TWO PERMANENT BENCH MARKS ON SITE, REFERENCED TO ESTABLISHED BENCH MARKS BY SURVEY CONTROL
- POINTS. RECORD LOCATIONS, WITH HORIZONTAL AND VERTICAL DATA IN PROJECT RECORD DOCUMENTS. ESTABLISH LINES AND LEVELS, LOCATED AND LAY OUT, BY INSTRUMENTATION.
- THE CONTRACTOR SHALL RETAIN AN INDEPENDENT INSPECTION AND TESTING COMPANY TO ENSURE THAT ALL WORK IS
- DONE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
- SUBSTITUTIONS FROM SPECIFIED PRODUCTS AND MATERIALS MUST BE APPROVED BY THE PCA REPRESENTATIVE PRIOR TO
- THE ORDERING OF MATERIALS.
- THESE DESIGN DRAWINGS ARE PREPARED SOLELY FOR THE USE BY THE PARTY WITH WHOM THE DESIGN PROFESSIONAL HAS ENTERED INTO A CONTRACT WITH.

UNDERGROUND SERVICING AND UTILITIES:

- ALL UNDERGROUND SERVICE INFORMATION IS DERIVED FROM RECORDS AND SERVICES HAVE NOT BEEN LOCATED BY THE UTILITY COMPANIES OR BY DAYLIGHTING. WSP CANADA GROUP LIMITED ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY, CORRECTNESS AND COMPLETENESS
- OF THE UNDERGROUND SERVICE INFORMATION SHOWN ON THE FACE OF THIS PLAN. UTILITIES MUST BE LOCATED BY THE UTILITY COMPANIES BEFORE CONSTRUCTION BEGINS. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES WHICH OCCUR TO EXISTING SERVICES DURING CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY LOCATES. CONTRACTOR TO VERIFY LOCATION AND PROTECT ALL SERVICES PRIOR TO ANY EXCAVATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CALL A PRIVATE LOCATING COMPANY AND PAY ALL COSTS RELATING TO ALL SERVICES NOT STAKED OUT BY GAS, HYDRO, BELL, AND CABLE.
- CONTRACTOR MUST CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB, REPORTING ALL DISCREPANCIES TO THE PCA REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING SERVICES WHEN EXCAVATING.

SEDIMENTATION CONTROL:

- ALL SILTATION CONTROL (FILTREXX SILT SOXX OR APPROVED EQUAL) SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF EXCAVATION OR GRADING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SILTATION CONTROL DEVICES IN GOOD WORKING
- ORDER AT ALL TIMES. CONTRACTOR SHALL INSPECT SUCH DEVICES DAILY AND AFTER EACH RAINFALL EVENT. FOLLOWING COMPLETION OF CONSTRUCTION AND ONCE DISTURBED AREAS HAVE BECOME STABILIZED WITH
- VEGETATION, SILT SOXX SHALL BE SLIT OPEN TO PROMOTE DECOMPOSTION. ALL ON-SITE STORAGE OF GRANULAR MATERIALS WILL BE ISOLATED AND SECURED WITH SNOW FENCING
- SURROUNDED BY FILTREXX SILT SOXX OR APPROVED EQUAL.
- FOLLOWING THE COMPLETION OF CONSTRUCTION ALL SNOW FENCING AND POSTS SURROUNDING MATERIAL STAGING AREAS WILL BE REMOVED AND DISPOSED OF OFF-SITE.
- NO IN-WATER WORKS ARE PERMITTED.
- NO VEHICLES OR EQUIPMENT MAY BE REFUELLED WITHIN 30 METRES OF ANY WATERCOURSES. EQUIPMENT WILL NOT TRAVERSE ANY WATERCOURSES.
- THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO PREVENT SEDIMENT RELEASES TO THE NATURAL ENVIRONMENT. THE PCA REPRESENTATIVE SHOULD BE IMMEDIATELY CONTACTED SHOULD THE EROSION AND SEDIMENT CONTROL PLANS CHANGE FROM THE APPROVED PLANS. FAILED EROSION AND SEDIMENTATION CONTROL MEASURES SHOULD BE REPAIRED IMMEDIATELY.
- IN ORDER TO RESPOND TO ANY FUEL SPILLS, A SPILL RESPONSE PLAN WILL BE IN PLACE. A SPILL KIT WILL BE AVAILABLE AT ALL TIMES AND STAFF WILL BE TRAINED TO DEPLOY IT. ANY FUEL SPILLS SHALL BE IMMEDIATELY REPORTED TO THE ONTARIO MINISTRY OF ENVIRONMENT SPILLS REPORTING LINE (1-800-268-6060) AND ENVIRONMENT CANADA (613-239-6065).

SITE PREPARATION NOTES:

- CONTRACTOR TO ENSURE POSITIVE DRAINAGE OF ALL AREAS WITHIN THE LIMIT OF THE CONTRACT.
- CONTRACTOR TO WORK WITHIN GUIDELINES FOR THE MUNICIPALITY'S NOISE BY-LAWS.
- ANY REFUSE, GARBAGE, OR OTHER DEBRIS WITHIN WORK AREA AND/OR WITHIN 10M OF PROPOSED TRAIL CORRIDORS SHALL BE REMOVED AND DISPOSED OF OFF SITE AS PART OF THE CONTRACT, AT NO ADDITIONAL COST TO THE PROJECT. THIS INCLUDES OLD WIRE FENCING AS NOTED FOR REMOVAL ON L-305-L-340
- THE CONTRACTOR TO PROVIDE A WASTE MANIFEST TO ENSURE THAT CONSTRUCTION AND OTHER GENERAL WASTES WILL BE DISPOSED OF AT AN APPROVED AND APPROPRIATED LANDFILL FACILITY
- HAZARD TREES WITHIN THE FALL ZONE OF PROPOSED TRAILS AND PARKING LOTS SHALL BE REMOVED.
- TREES TO BE REMOVED SHALL BE FELLED INTO THE WORK AREA TO AVOID DAMAGE TO SURROUNDING VEGETATION 25% (APPROXIMATELY) OF CUT BRANCHES AND TRUNKS SHALL BE SCATTERED IN THE SURROUNDING AREA (WITHIN 20M EITHER SIDE OF PROPOSED TRAILS) AND ALLOWED TO DECOMPOSE OVER TIME THE REMAINING 75% OF CUT BRANCHES AND TRUNKS SHALL BE CHIPPED, AND CHIPPINGS SHALL BE SCATTERED IN THE SURROUNDING AREA (WITHIN 20M) OF
- HAZARD TREES TO BE RETAINED AS WILDLIFE HABITAT POSTS SHALL BE CUT OFF AT 5m ABOVE GROUND. HABITAT POSTS ARE FLAGGED IN THE FIELD BY PCA REPRESENTATIVE

ARCHAEOLOGY NOTES:

• ALTHOUGH THE AREA HAS BEEN TESTED FOR ARCHAEOLOGICAL RESOURCES, IT IS POSSIBLE THAT CULTURAL FEATURES AND/OR ARTIFACT CONCENTRATIONS MAY BE ENCOUNTERED DURING CONSTRUCTION. IF ANY FEATURES SUCH AS STRUCTURAL REMAINS OR ARTIFACT CONCENTRATIONS ARE ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY STOP WORKING IN THE AREA AND INFORM THE PCA REPRESENTATIVE FOR DIRECTION ON HOW TO

GRADING NOTES:

- CONTRACTOR TO ENSURE POSITIVE DRAINAGE OF ALL AREAS WITHIN THE LIMIT OF THE WORK.
- ENSURE TRANSITION OF EXISTING AND NEW GRADE ELEVATIONS IS SMOOTH.
- MINIMUM PERMITTED HARDSCAPE SLOPE IS 2%; MAXIMUM PERMITTED IS 5%. • MINIMUM GROUND SLOPE TO BE 2%, MAXIMUM PERMITTED 33%.
- NOTIFY PCA REPRESENTATIVE IMMEDIATELY, IN WRITING, IF ANY DISCREPANCIES WITH STATED REQUIREMENTS ARE DISCOVERED.

LAYOUT NOTES:

- LAYOUT TO BE STAKED BY CONTRACTOR AND APPROVED BY THE PCA REPRESENTATIVE. CONTRACTOR TO REVIEW DRAWINGS AND REPORT ANY ERRORS, OMISSIONS, OR DISCREPANCIES TO THE PCA
- REPRESENTATIVE IN WRITING.
- NOTIFY PCA REPRESENTATIVE IMMEDIATELY. IN WRITING, IF ANY DISCREPANCIES WITH STATED REQUIREMENTS. ARE DISCOVERED.
- THE FLAGS CURRENTLY IN THE FIELD (ORANGE) ARE NOT TO BE REMOVED THE THE CONTRACTOR UNTIL THE FINAL LAYOUT/STAKEOUT IS APPROVED BY PCA REPRESENTATIVE.
- CONTRACTOR TO COORDINATE WITH PCA REPRESENTATIVE REGARDING THE ERECTION OF ALL CONSTRUCTION FENCING. THE PCA REPRESENTATIVE MUST BE PRESENT ON SITE DURING THE ERECTION OF THE CONSTRUCTION FENCING.

WORKING AROUND WILDLIFE PROTOCOL:

- TO COMPLY WITH FEDERAL AT RISK LEGISLATION, WILD ANIMALS THAT MAY BE PRESENT ON SITE DURING PROJECT ACTIVITIES SHALL NEVER BE HARMED OR HARASSED. IF WILD ANIMALS DO NOT OR CANNOT LEAVE THE WORK AREA IN TIME TO ALLOW WORK TO PROCEED, THE PCA REPRESENTATIVE MUST BE CONSULTED AND MAY DECIDE EITHER TO STOP / DELAY WORK OR MOVE AN ANIMAL (WITH THE ASSISTANCE OF WILDLIFE AUTHORITIES) IF IT IS APPROPRIATE AND POSSIBLE TO DO SO WITHOUT CAUSING HARM TO THAT ANIMAL OR OTHER WILDLIFE.
- IN THE EVENT THAT A NEST, DEN, OR OTHER SENSITIVE WILDLIFE FEATURE IS PRESENT IN THE AREA TO BE IMPACTED BY CONSTRUCTION, THE PCA REPRESENTATIVE MUST BE NOTIFIED. THE PCA REPRESENTATIVE WILL CONSULT APPROPRIATE STAFF AND PARTNERS TO DECIDE UPON MEASURES TO PROTECT THE FEATURE THAT ARE APPROPRIATE TO THE SPECIES.
- IN ORDER TO COMPLY WITH THE MIGRATORY BIRDS CONVENTION ACT, TREE TRIMMING AND/OR REMOVALS MUST BE COMPLETED PRIOR TO APRIL 1, OR AFTER AUGUST 30TH. ANY TREE REMOVALS OR TRIMMING BETWEEN APRIL 1 AND AUGUST 30 MUST BE COMPLETED UNDER THE SUPERVISION OF PARKS CANADA RESOURCE CONSERVATION STAFF
- THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE PCA REPRESENTATIVE IF SPECIES AT RISK ARE ENCOUNTERED WITHIN, OR IN THE IMMEDIATE VICINITY OF ANY ACTIVE CONSTRUCTION AREA OR MATERIAL STAGING AREA, AND SHALL CEASE WORK IN THE AREA UNTIL DIRECTION IS PROVIDED BY THE PCA
- MANY SPECIES AT RISK MAY BE PRESENT IN THE GENERAL VICINITY OF THE WORK AREA AND COULD BE OBSERVED ON OR NEAR THE SITE, INCLUDING, BUT NOT LIMITED TO: BUTTERNUT TREES, MONARCHS, BOBOLINKS, BARN SWALLOWS, WOOD THRUSHES, EASTERN WOOD-PEWEES, EASTERN MEADOWLARKS, BANK SWALLOWS, GRASSHOPPER SPARROWS, LITTLE BROWN MYOTIS, NORTHERN MYOTIS, TRICOLOURED BATS. BLANDING'S TURTLES, SNAPPING TURTLES, EASTERN MILKSNAKES AND YELLOW-BANDED BUMBLE BEES. ON-SITE WORKERS MUST BE MADE AWARE OF AND SUBSEQUENTLY REPORT ANY INCIDENTAL SIGHTINGS OF SPECIES AT RISK IMMEDIATELY TO PCA REPRESENTATIVE.
- IF WILDLIFE ARE OBSERVED AT OR NEAR THE WORK SITE, ALLOW THE ANIMAL(S) THE OPPORTUNITY TO LEAVE THE WORK AREA.
- ALERT THE PCA REPRESENTATIVE IMMEDIATELY OF ANY POTENTIAL WILDLIFE CONFLICT (E.G., AGGRESSIVE BEHAVIOUR, PERSISTENT INTRUSION), DISTRESS OR MORTALITY. IN THE CASE OF AGGRESSIVE BEHAVIOUR OR PERSISTENT INTRUSION, STOP WORK AND EVACUATE THE AREA.

CLEAN EQUIPMENT PROTOCOL:

- BRINGING EQUIPMENT ON SITE FOR TREATMENT AND OTHER VEHICLES ACCESSING THE SITE PROVIDES OPPORTUNITIES FOR THE SPREAD OF INVASIVE SPECIES. IMPLEMENTING CLEAN EQUIPMENT PROTOCOLS WILL BE AN IMPORTANT PART OF THE MANAGEMENT PLAN AND CONTROLLING ESTABLISHED POPULATIONS.
- THOROUGH INSPECTIONS SHOULD BE DONE BEFORE AND AFTER A VEHICLE OR PIECE OF EQUIPMENT ENTERS THE SITE, INSPECT THE VEHICLE/EQUIPMENT INSIDE AND OUT FOR DIRT, PLANT MATERIAL AND SEEDS THAT MAY BE STUCK ON SURFACES.
- REMOVE ANY GUARDS, COVERS OR PLATES THAT ARE EASILY REMOVED AND PAY SPECIAL ATTENTION TO THE UNDERSIDE OF THE VEHICLE/EQUIPMENT, RADIATORS, SPARE TIRES, FOOT WELLS AND BUMPER BARS. • IF ANYTHING IS IDENTIFIED, THE VEHICLE/EQUIPMENT WILL NEED TO BE CLEANED IN AN AREA WHERE
- SEED SPREAD IS NOT POSSIBLE. NOTE THAT THIS PROJECT IS LOCATED IN AN AREA WHERE INVASIVE PLANT SPECIES ARE PREVALENT [ESPECIALLY THE EUROPEAN COMMON REED (PHRAGMITES AUSTRALIS), DOG-STRANGLING VINE (CYNANCHUM ROSSICUM)], EUROPEAN BUCKTHORN (RHAMNUS CATHARTICA) AND JAPANESE KNOTWEED
- (FALLOPIA JAPONICA). TO PREVENT THE SPREAD OF INVASIVE SPECIES ALL CONSTRUCTION EQUIPMENT MUST BE CLEANED PRIOR TO ENTERING OR LEAVING THE SITE, ACCORDING TO THE ONTARIO INVASIVE PLANT COUNCIL'S CLEAN EQUIPMENT PROTOCOL FOR INDUSTRY (2016). • TO MINIMIZE THE SPREAD OF INVASIVE PLANT SPECIES IN THIS ZONES NOTED ON L-305 TO L-345, SOIL FROM ANY EXCAVATION WITHIN THIS ZONE SHALL NOT BE PLACED OUTSIDE THE ZONE (I.E. DO NOT

SPREAD SEEDS, SEEDBANK, ROOTS OR STEMS). LIKEWISE, ANY BRUSH, BRANCHES, STEMS OR WOOD

CHIPPINGS FROM PLANTS WITHIN THIS ZONE MUST BE DISTRIBUTED WITHIN THE ZONE. • ALL SOIL EXCAVATED FROM INVASIVE SPECIES ZONE IN PROPOSED PARKING LOT AT ELGIN MILLS ROAD AND REESOR ROAD SHALL BE REMOVED FROM SITE AND DISPOSED OF IN AN APPROVED LANDFILL (REFER TO DRAWINGS L-340, L-450 AND L460)

SEEDING:

- SEEDING SHALL BE APPLIED TO ALL AREAS DISTURBED BY THE CONSTRUCTION OPERATION THAT WILL NOT BE COVERED WITH GRANULAR TRAIL OR PARKING LOT SURFACING.
- IN PREPARATION FOR SEEDING, ALL SURFACE AREAS MUST BE UNIFORMLY GRADED AND SHALL BE FREE OF EROSION. CONCRETE. METAL. GLASS OR OTHER NON-ORGANIC DEBRIS AND UNWANTED MATERIALS. EXISTING SURFACE SOIL SHALL BE UNIFORMLY CULTIVATED TO A MINIMUM DEPTH
- 50mm TO PROVIDE A LOOSE AND FRIABLE SEEDBED TO ACCELERATE GERMINATION OF SEED. SEEDING SHALL BE BY MECHANICAL BROADCAST METHOD (E.G. HAND HELD OR WALK-BEHIND SPREADER) ON TO PREPARED SURFACE AND LIGHTLY HAND RAKED FOLLOWING APPLICATION TO
- ENSURE SEED CONTACT WITH SOIL. ALL SEED TO BE INSTALLED IN ACCORDANCE WITH SUPPLIER'S INSTRUCTIONS.
- ALL SEED NATIVE SEED MIXES TO BE BY ST. WILLIAMS NURSERY AND ECOLOGY CENTRE OR APPROVED EQUAL. ALL SEED BAGS / CONTAINERS TO BE SEALED UPON ARRIVAL AT SITE WITH ORIGINAL SUPPLIER'S SEED MIX NAME AND COMPOSITION CLEARLY LABELED ON OUTSIDE OF
- SEED SHALL NOT BE APPLIED UNTIL CONTAINER AND LABELING HAS BEEN REVIEWED AND APPROVED BY PCA REPRESENTATIVE

SEED MIXES:

MIX 1: ST. WILLIAMS - BOBOLINK & MEADOWLARK SEED MIX

COMMON NAME	SPECIES	PERCENT %
RIVERBANK RYE	ELYMUS RIPARIUS	30
VIRGINIA RYE	ELYNUS VIRGINICUS	30
BIG BLUE STEM	ANDROPOGON GERARDII	10
CANADA RYE	ELYMUS CANADENSIS	10
SWITCH GRASS	PANICUM VIRGATUM	5
GOLD FRUITED SEDGE	CAREX AUREA	3
FRINGED SEDGE	CAREX CRINITA	2
ROUGH DROPSEED	SPOROBOLUS ASPER	2
COMMON MILKWEED	ASCLEPIAS SYRIACA	2
BLUE VERVAIN	VERBENA HASTATA	2
VIRGINIA MOUNTAIN MINT	PYCNANTHEMUM VIRGINIANUM	2
GREEN HEADED CONEFLOWER	RUDBECKIA LACINIATA	1
BLUEJOINT	CALAMAGROSTIS CANADENSIS	1

SEED AT RATE OF 10KG/HA

MIX 2: ST. WILLIAMS - STREAM CHANNEL AND WETLAND EDGE MIX

COMMON NAME	SPECIES	PERCENT %
RIVERBANK RYE	ELYMUS RIPARIUS	35
VIRGINIA RYE	ELYMUS VIRGINICUS	35
SWITCH GRASS	PANICUM VIRGATUM	8
GOLD FRUITED SEDGE	CAREX AUREA	3
BLUE VERVAIN	VERBENA HASTATA	3
HOP SEDGE	CAREX LUPINA	3
SWAMP MILKWEED	ASCELPIAS INCARNATA	2
TALL SUNFLOWER	HELIANTHUS GIGANTEA	2
FRINGED SEDGE	CAREX CRINATA	2
SOFT RUSH	JUNCUS EFFUSES	2
VIRGINIA MOUNTAIN MINT	PYCNANTHEMUM VIRGINIANUM	2
GREEN HEADED CONEFLOWER	RUDBECKIA LACINIATA	1
SNEEZEWEED	HELENIUM AUTUMNALE	1
GREEN HEADED CONEFLOWER	RUDBECKIA LACINATA	1
TALL MANNA GRASS	GLYCERIA GRANDIS	1
GREAT ST. JOHNS WORT	HYPERICUM ASCYRON	1

SEED AT RATE OF 10KG/HA.

MIX 3: ST. WILLIAMS - SEMI-SHADE FOREST EDGE MIX

COMMON NAME	SPECIES	PERCENT %
BOTTLE BRUSH GRASS	ELYMUS HYSTRIX	30
SILKY RYE	ELYMUS VILLOSUS	30
INDIAN GRASS	SORGHASTRUM NUTANS	10
BIG BLUESTEM	ANDROPOGON GERARDII	10
WILD COLUMBINE	AQUILEGIA CANADENSIS	8
GIANT YELLOW HYSSOP	AGASTACHE NEPETOIDES	3
SWITCH GRASS	PANICUM VIRGATUM	3
WHITE VERVAIN	VERBENA URTRICULATA	2
VIRGINIA MOUNTAIN MINT	PYCNANTHEMUM VIRGINIANUM	2
DWARF BLAZING STAR	LIATRIS CYLINDRACEA	2

SEED AT RATE OF 10KG/HA

SEEDING SCHEDULE:

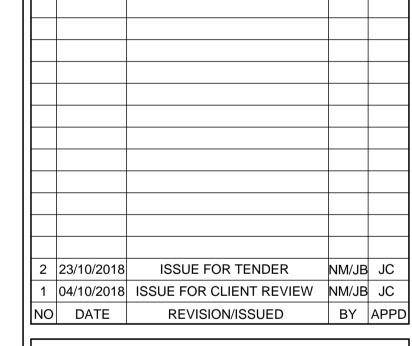
- SEED TO BE APPLIED WITHIN 7 DAYS OF COMPLETION OF FINE GRADING
- FOR SEEDING BETWEEN MARCH 15 AND OCTOBER 31 IN ANY CALENDAR YEAR, APPLY SEED MIXES 1. 2 AND 3 BY ST. WILLIAMS NURSERY TO UPLAND, LOWLAND, AND FORESTED AREAS RESPECTIVELY
- FOR SEEDING BETWEEN OCTOBER 1 AND MARCH 15 OF ANY CALENDAR YEAR, APPLY WINTER WHEAT SEED MIX (WINTER WHEAT (75%), CRIMSON CLOVER (15%), HAIRY VETCH (5%) BRASSICA MUSTARD (5%)) AT A RATE OF 25KG/HA

KEY MAP

DIGITAL DATA DISCLAIMER

BY USING OR REFERENCING THIS DIGITAL DATA, THE RECIPIENT OR THEIR SUB-CONTRACTOR(S) WILL **OBLIGE TO THE FOLLOWING TERMS:**

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- WSP RESERVES THE RIGHT TO REMOVE ALL INDICES OF ITS OWNERSHIP AND/OR INVOLVEMENT IN MATERIAL FROM EACH ELECTRONIC MEDIUM NOT HELD IN ITS POSSESSION.
- THIS MATERIAL SHALL NOT BE USED BY ANY UNAUTHORIZED PARTY OR TRANSFERRED TO ANY OTHER PARTY FOR USE IN ANY OTHER PROJECTS. ADDITIONS TO THE CURRENT PROJECT, OR FOR ANY OTHER PURPOSE FOR WHICH THE MATERIAL WAS NOT STRICTLY INTENDED BY WSP WITHOUT OUR EXPRESS WRITTEN PERMISSION.
- ANY UNAUTHORIZED MODIFICATION OR REUSE OF THE MATERIAL SHALL BE AT YOUR SOLE RISK, AND YOU AGREE TO DEFEND, INDEMNIFY, AND HOLD WSP HARMLESS FOR ALL CLAIMS, INJURIES, DAMAGES, LOSSES, EXPENSES, AND ATTORNEYS FEES ARISING OUT OF THE UNAUTHORIZED MODIFICATION OR USE OF THESE MATERIALS WSP ASSUMES NO OBLIGATION OR LIABILITY FOR
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Landscape Architecture



ROUGE NATIONAL URBAN PARK NORTHERN AREA TRAILS

SITE ADDRESS:

10725 REESOR ROAD MARKHAM, ON

DRAWING TITLE: NOTES



CHECKED JC DESIGNED JC/NM DRAWN DATE OCTOBER 2018

DWG. NUMBER

PROJECT NUMBER SP201-18-0184/A WSP- 17M-01916-00

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L-300

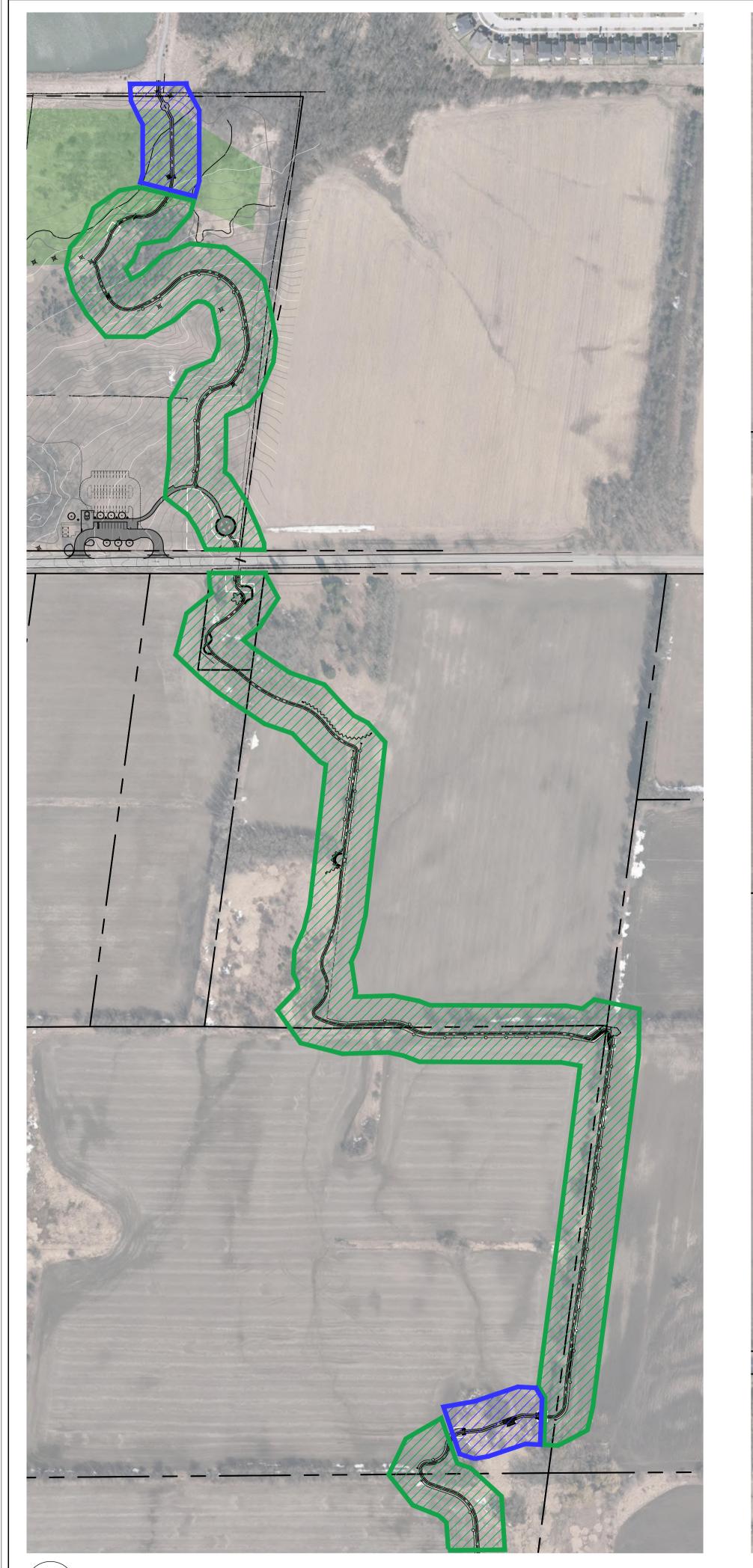
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SP201-18-0184/A
WSP- 17M-01916-00

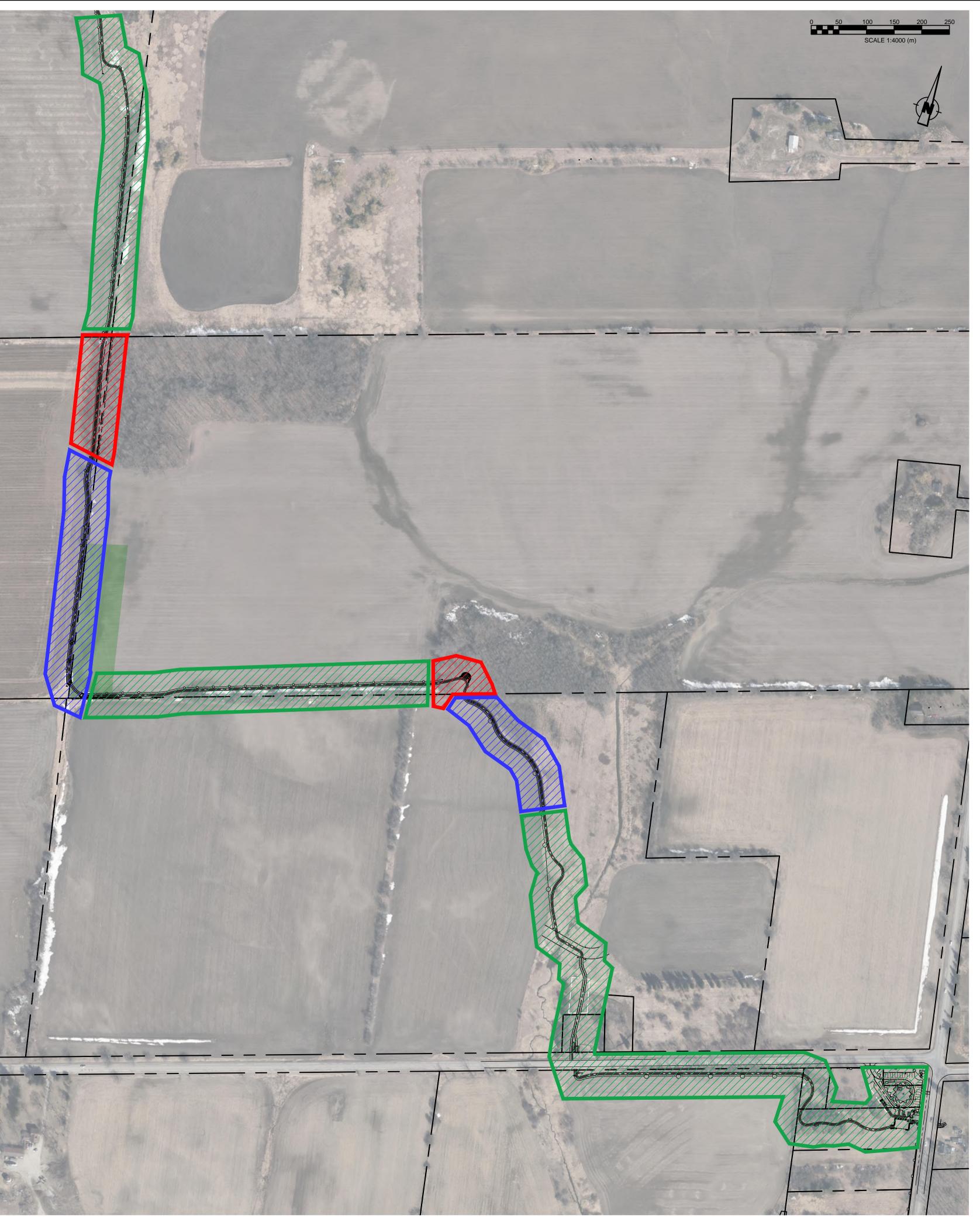
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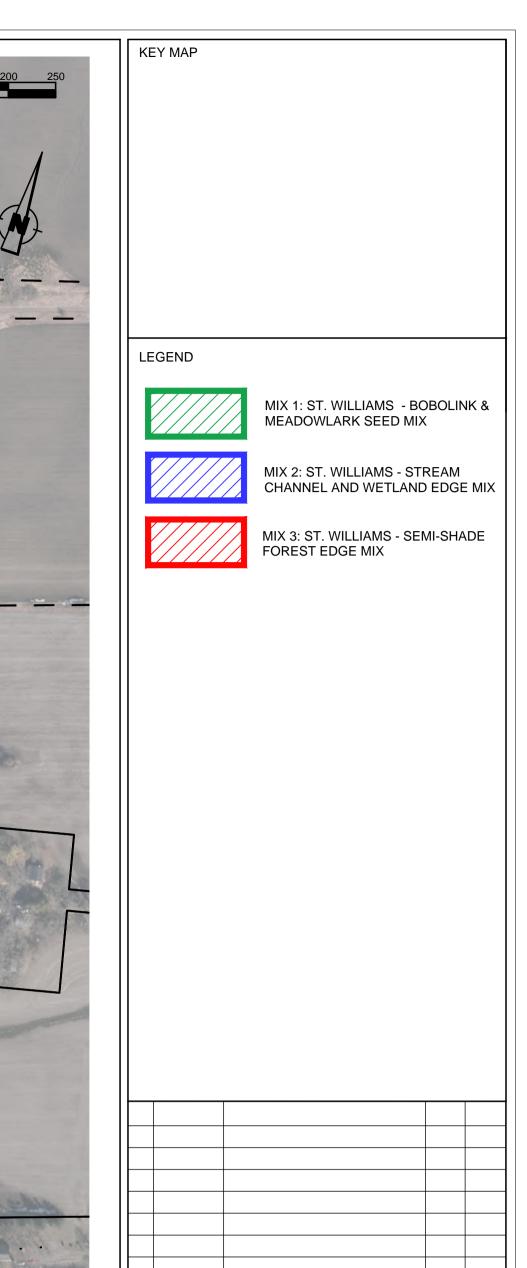
DATE OCTOBER 2018

DWG. NUMBER L-200

BY APPD







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ROUGE NATIONAL URBAN PARK NORTHERN AREA TRAILS

ISSUE FOR TENDER

1 04/10/2018 ISSUE FOR CLIENT REVIEW NM/JB JC REVISION/ISSUED

SITE ADDRESS:

10725 REESOR ROAD MARKHAM, ON

DRAWING TITLE:

SEEDING PLAN



CHECKED JC DESIGNED JC/NM DRAWN NM

SCALĀS SHOWN

PROJECT NUMBER

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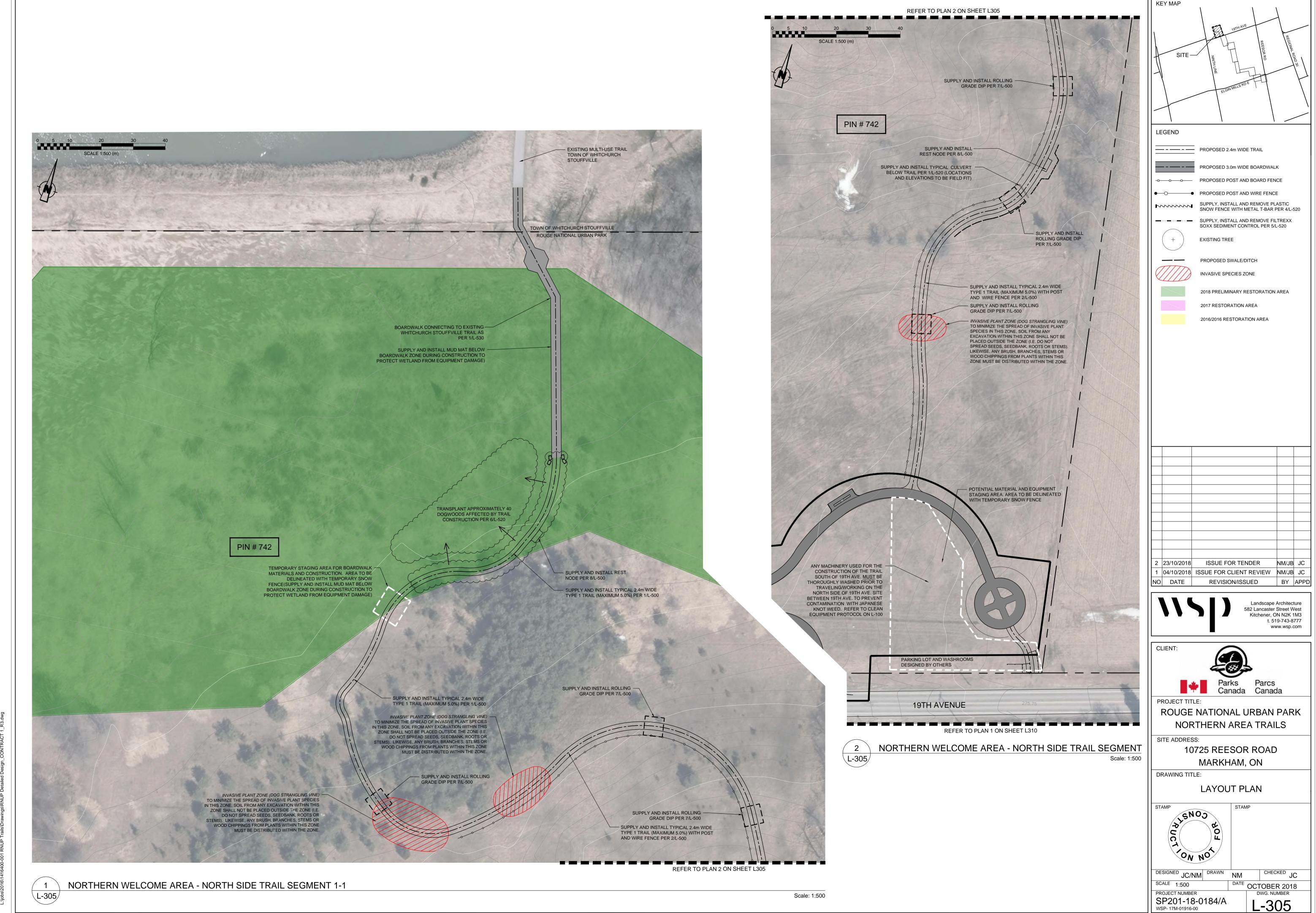
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DATE OCTOBER 2018

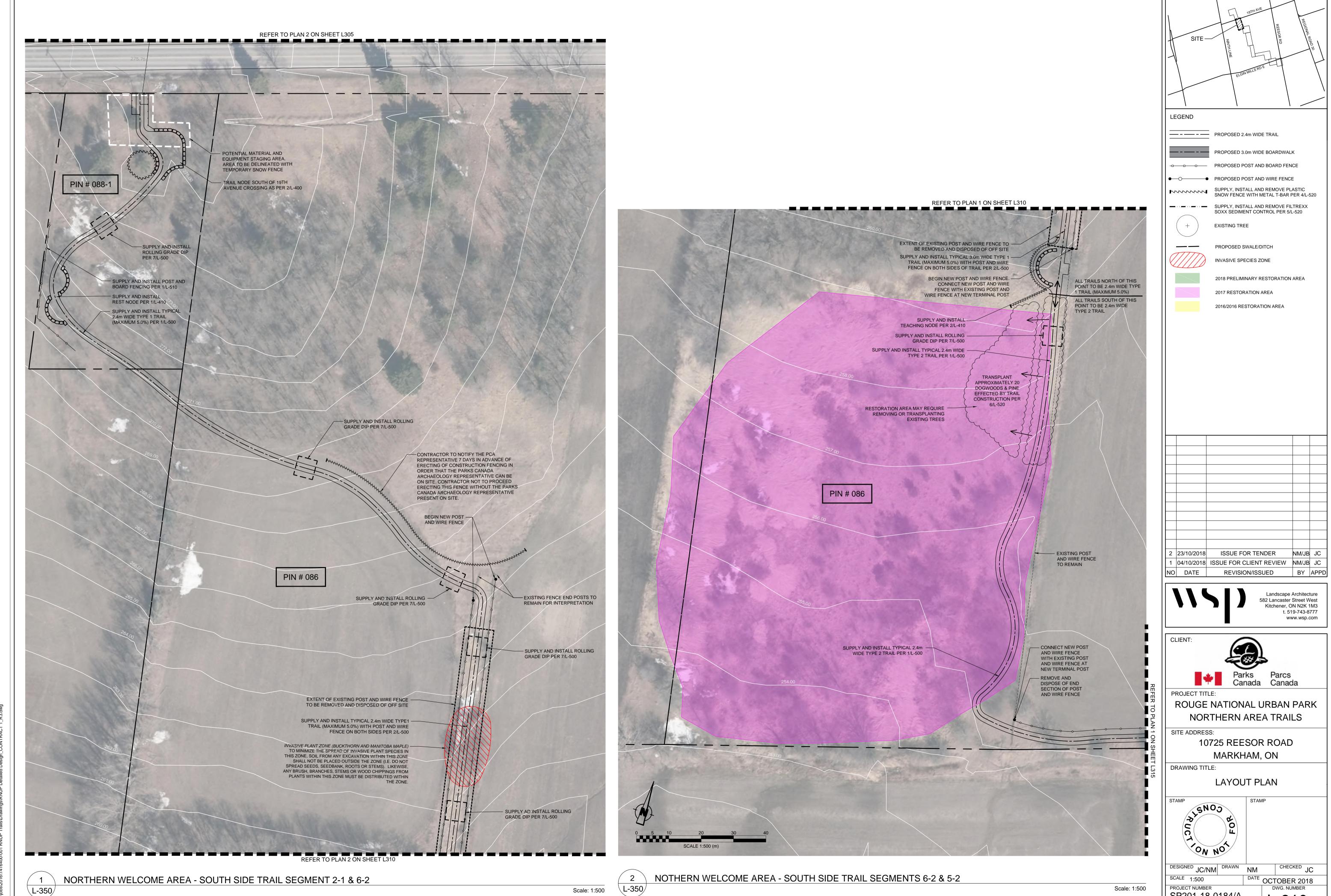
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L-300



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KEY MAP

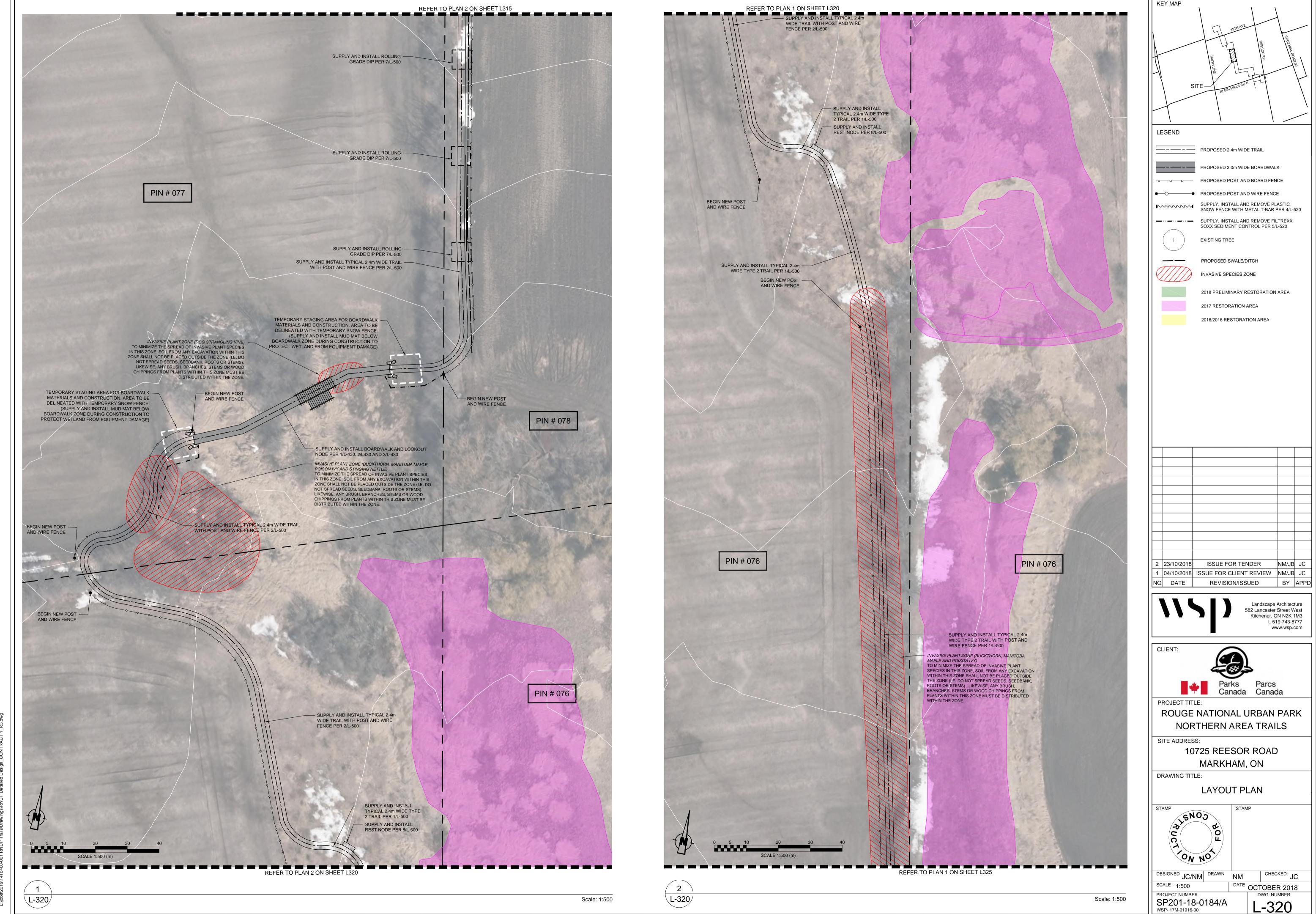
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L-310

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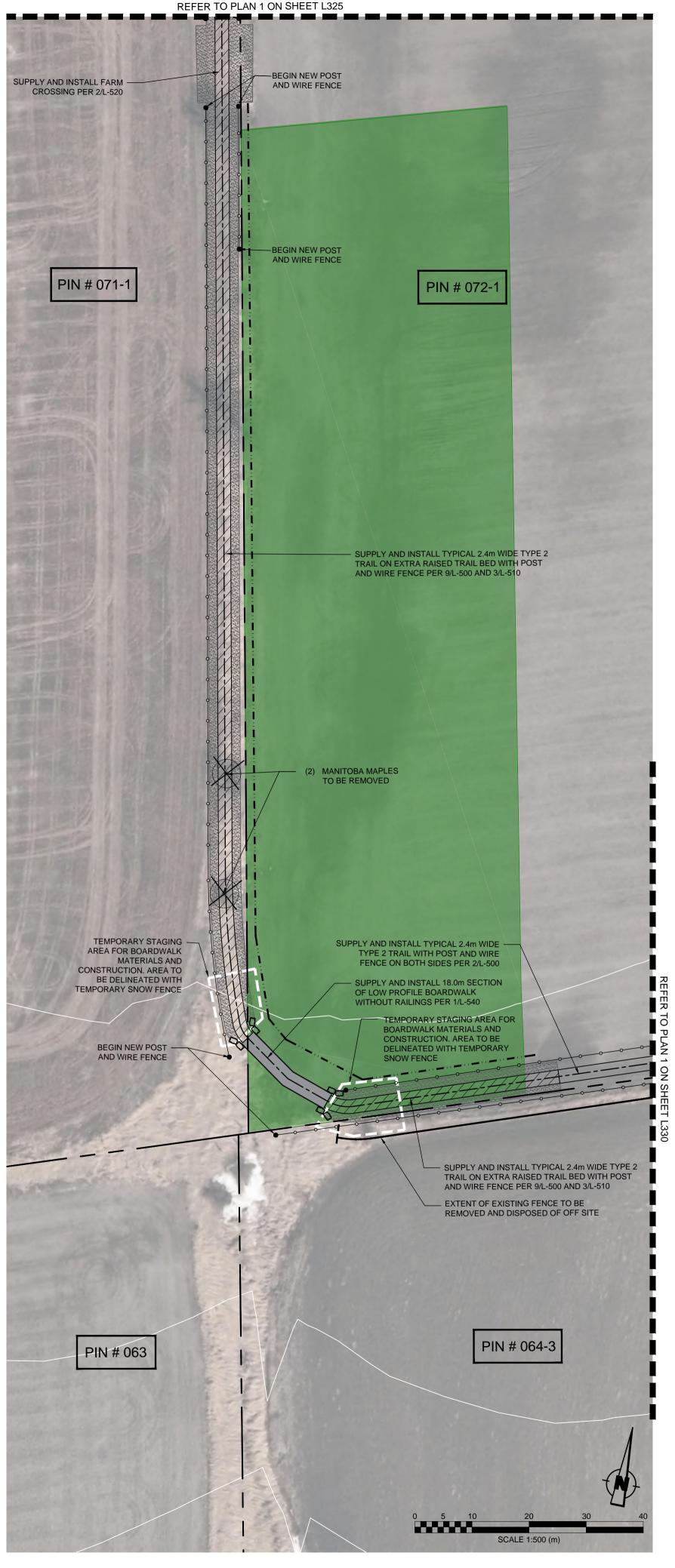
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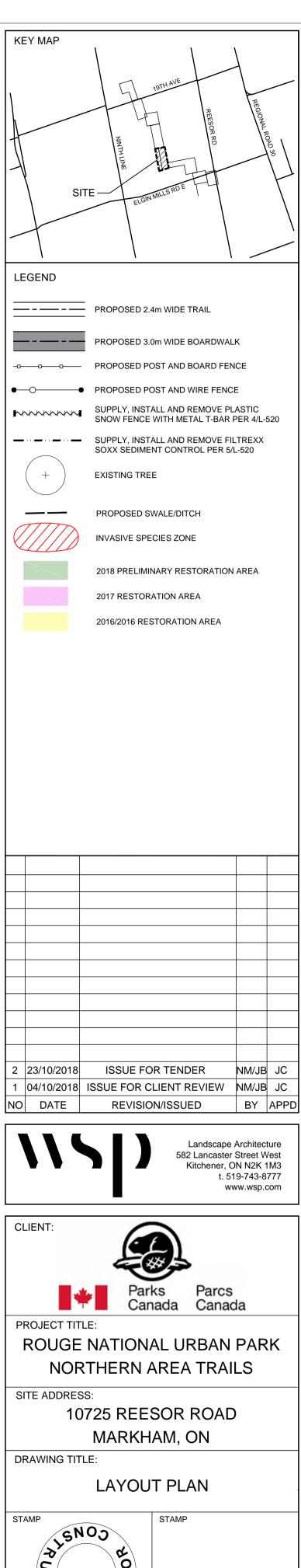


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L-325







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L-325

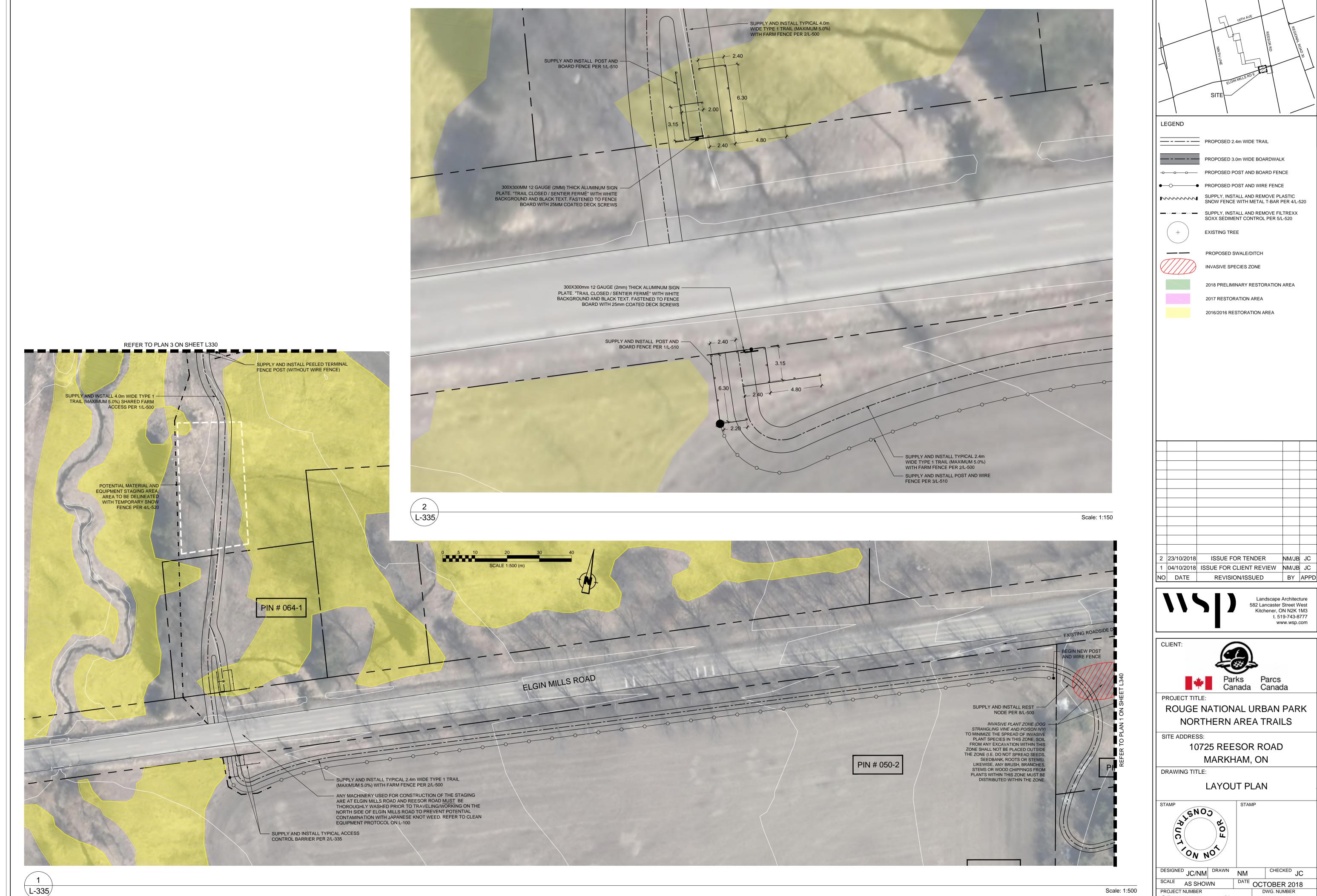
PROJECT NUMBER SP201-18-0184/A WSP- 17M-01916-00

L-325/

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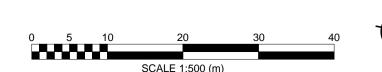
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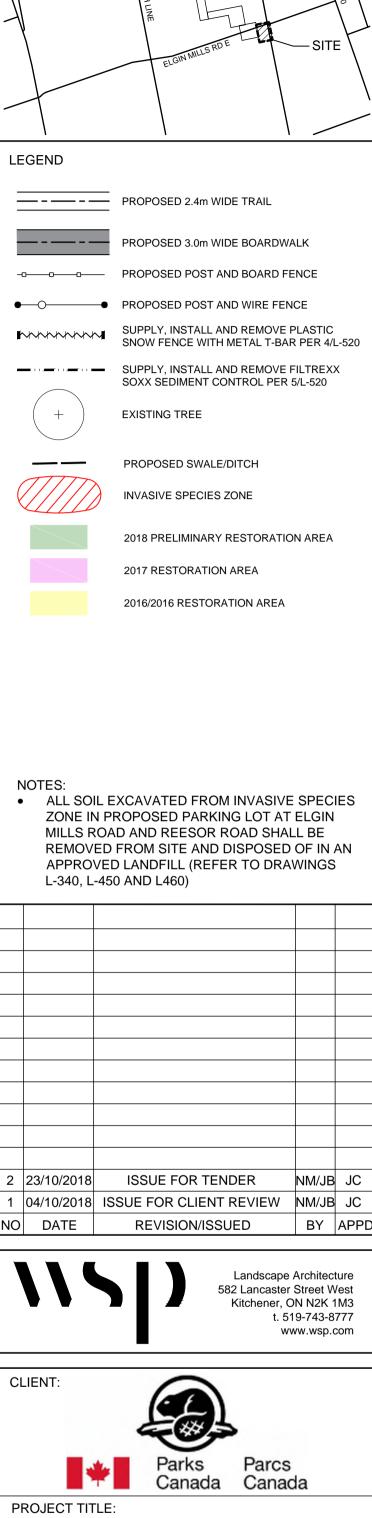




DATE OCTOBER 2018 Scale: 1:500 PROJECT NUMBER DWG. NUMBER SP201-18-0184/A WSP- 17M-01916-00 L-335

KEY MAP





KEY MAP

ROUGE NATIONAL URBAN PARK NORTHERN AREA TRAILS

SITE ADDRESS: 10725 REESOR ROAD MARKHAM, ON

DRAWING TITLE:

LAYOUT PLAN

L-340

DESIGNED JC/NM DRAWN CHECKED JC SCALE 1:500 DATE OCTOBER 2018
DWG. NUMBER

PROJECT NUMBER SP201-18-0184/A WSP- 17M-01916-00





LEGEND PROPOSED 3.0m WIDE BOARDWALK PROPOSED POST AND WIRE FENCE SUPPLY, INSTALL AND REMOVE PLASTIC SNOW FENCE WITH METAL T-BAR PER 4/L-520 SUPPLY, INSTALL AND REMOVE FILTREXX SOXX SEDIMENT CONTROL PER 5/L-520 **EXISTING TREE** PROPOSED SWALE/DITCH INVASIVE SPECIES ZONE 2 | 23/10/2018 | ISSUE FOR TENDER 1 04/10/2018 ISSUE FOR CLIENT REVIEW NM/JB JC REVISION/ISSUED BY APPD



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Landscape Architecture



rks Parcs Inada Canada

PROJECT TITLE:

ROUGE NATION

ROUGE NATIONAL URBAN PARK NORTHERN AREA TRAILS

SITE ADDRESS:

CLIENT:

10725 REESOR ROAD MARKHAM, ON

DRAWING TITLE:

AREA ENLARGEMENT DETAILS



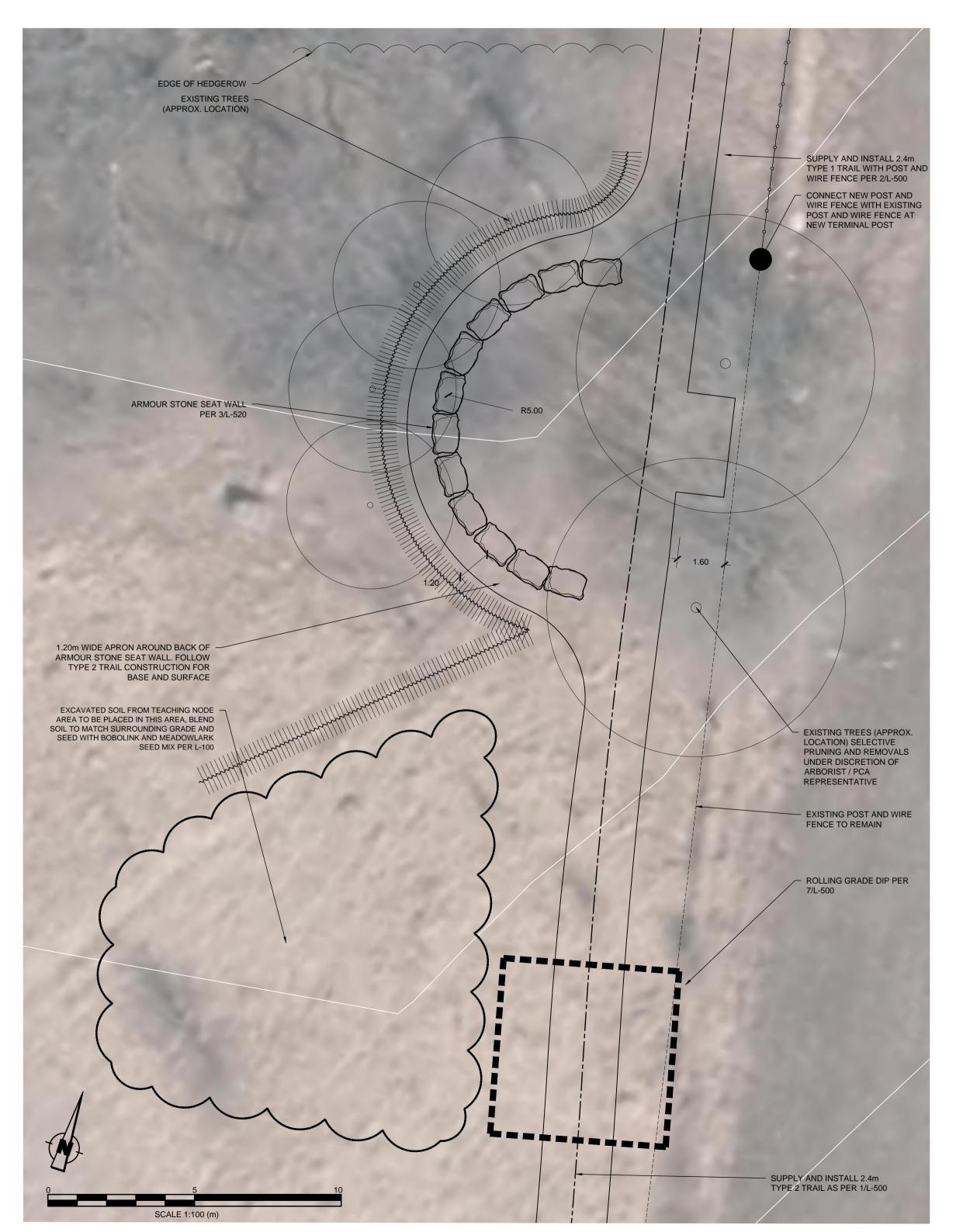
DESIGNED JC/NM DRAWN NM CHECKED JC

SCALE 1:500 DATE OCTOBER 2018
PROJECT NUMBER DWG. NUMBER

PROJECT NUMBER
1416400-001

0-001 L-400

obs∖2016∖1416400-001 RNUP Trails∖Drawings∖RNUP Detailed Design



L-410

TEACHING NODE SOUTH OF 19th AVENUE (PIN 086)

LEGEND

PROPOSED 3.0m WIDE BOARDWALK

PROPOSED 2.4m WIDE TRAIL

PROPOSED POST AND WIRE FENCE

SUPPLY, INSTALL AND REMOVE PLASTIC SNOW FENCE WITH METAL T-BAR PER 4/L-520 SUPPLY, INSTALL AND REMOVE FILTREXX SOXX SEDIMENT CONTROL PER 5/L-520

EXISTING TREE



PROPOSED SWALE/DITCH

INVASIVE SPECIES ZONE

2 | 23/10/2018 | ISSUE FOR TENDER NM/JB JC 1 04/10/2018 ISSUE FOR CLIENT REVIEW NM/JB JC REVISION/ISSUED BY APPD



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CLIENT:

ROUGE NATIONAL URBAN PARK NORTHERN AREA TRAILS

SITE ADDRESS:

PROJECT TITLE:

10725 REESOR ROAD MARKHAM, ON

DRAWING TITLE:

Scale: 1:100

AREA ENLARGEMENT DETAILS



CHECKED JC DESIGNED JC/NM DRAWN

SCALE 1:500 DATE OCTOBER 2018

DWG. NUMBER PROJECT NUMBER

L-410 1416400-001

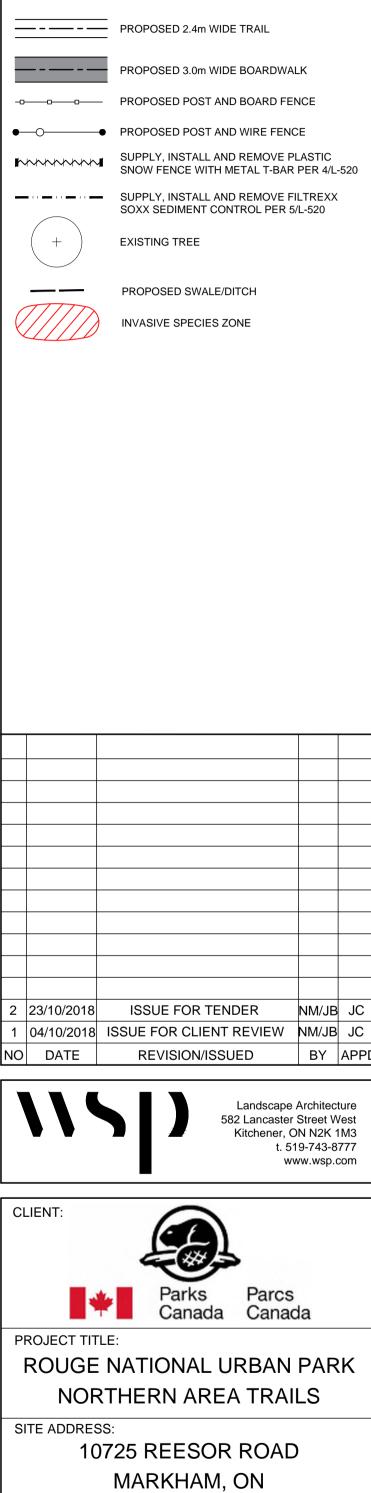
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LOOKOUT NODE ON SOUTH SIDE OF 19th AVENUE (PIN 086)

Scale: 1:100

LOOKOUT PLATFORM IN CORNER OF HEDGEROW SOUTH OF 19th AVENUE (PIN 086/078)



DRAWING TITLE:

ON NO

DESIGNED JC/NM DRAWN

SCALE 1:500

PROJECT NUMBER

1416400-001

AREA ENLARGEMENT DETAILS

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DATE OCTOBER 2018

DWG. NUMBER

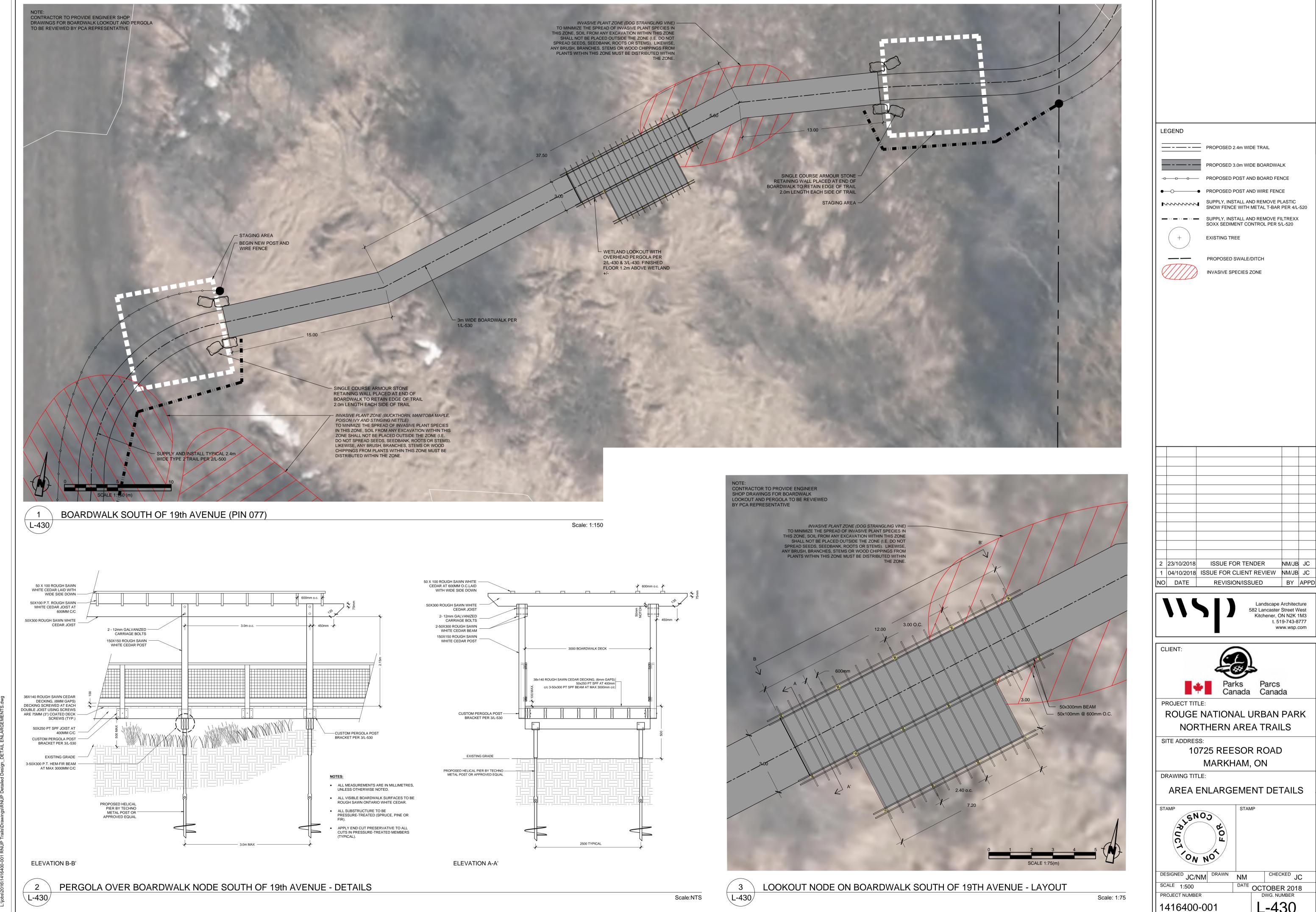
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LEGEND

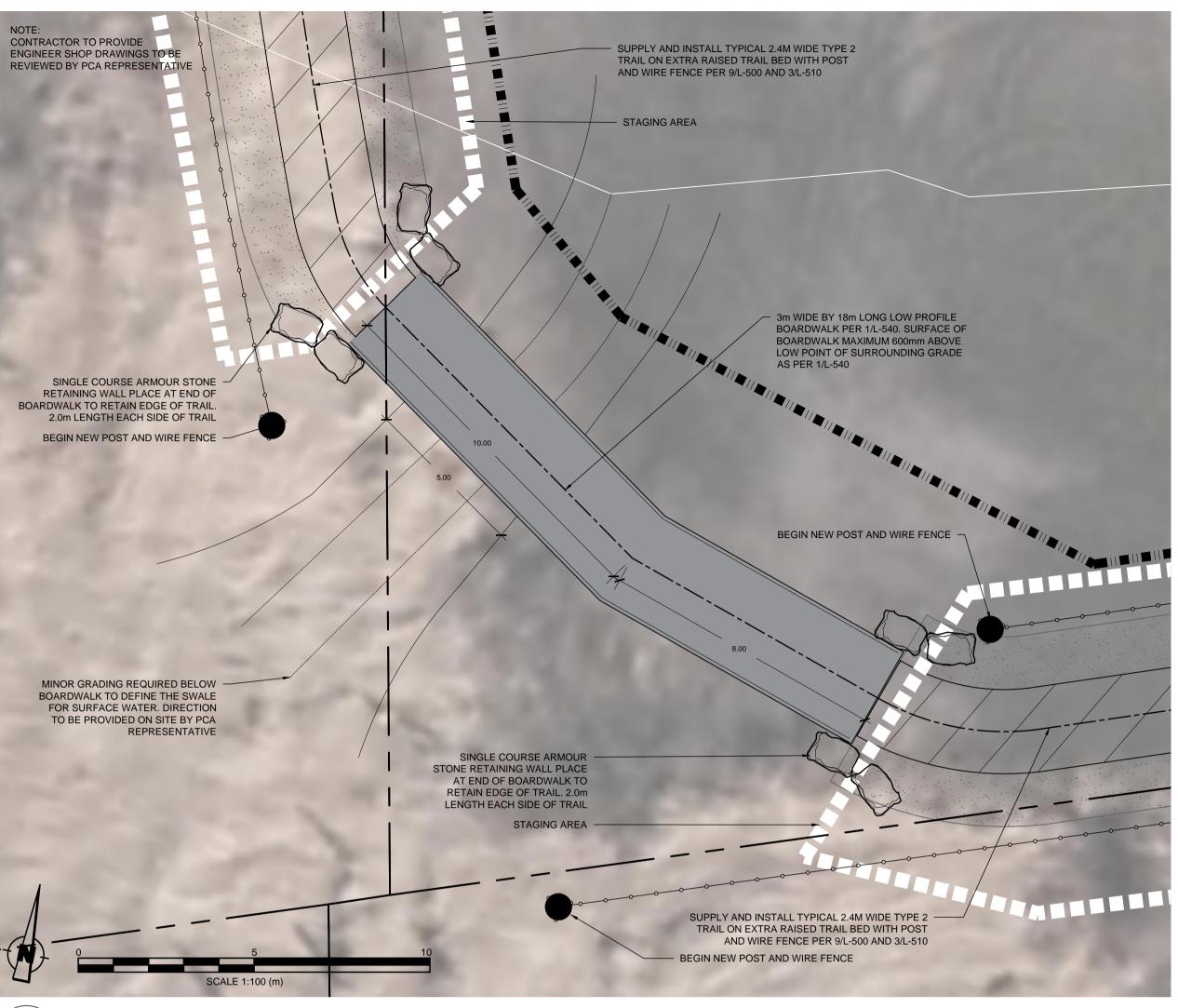
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L-420



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LOW PROFILE BOARDWALK OVER SWALE (CORNER OF PIN 071-1, 072-1)

INVASIVE PLANT ZONE (MANITOBA MAPLE AND BUCKTHORN)
TO MINIMIZE THE SPREAD OF INVASIVE PLANT SPECIES IN THIS ZONE, SOIL FROM ANY EXCAVATION WITHIN THIS ZONE SHALL NOT BE PLACED OUTSIDE THE ZONE (I.E. DO NOT SPREAD SEEDS, SEEDBANK, ROOTS OR STEMS). LIKEWISE, ANY BRUSH, BRANCHES, STEMS OR WOOD CHIPPINGS FROM PLANTS WITHIN THIS ZONE MUST BE DISTRIBUTED WITHIN THE ZONE. - SUPPLY AND INSTALL PEELED CEDAR TERMINAL FENCE POST (NO WIRE FENCE ATTACHED) - EXISTING CULVERT REINFORCED TRAIL BASE PER 10/L-500 FARM VEHICLE ACCESS REINFORCED TRAIL BASE PER 10/L-500 - SUPPLY AND INSTALL PEELED CEDAR TERMINAL FENCE POST (NO WIRE FENCE ATTACHED) - 4.0m WIDE TYPE 1 TRAIL / SHARED FARM VEHICLE ACCESS.
CONSTRUCT 4m WIDE TRAIL PER
TYPE 1 DETAILS 1/L-500

L-440

FARM ACCESS NORTH OF ELGIN MILLS RD.

- SUPPLY AND INSTALL TYPICAL 2.4 WIDE TYPE 1 TRAIL PER 2/L-500

Scale: 1:250

LEGEND

PROPOSED 3.0m WIDE BOARDWALK

SUPPLY, INSTALL AND REMOVE PLASTIC SNOW FENCE WITH METAL T-BAR PER 4/L-520

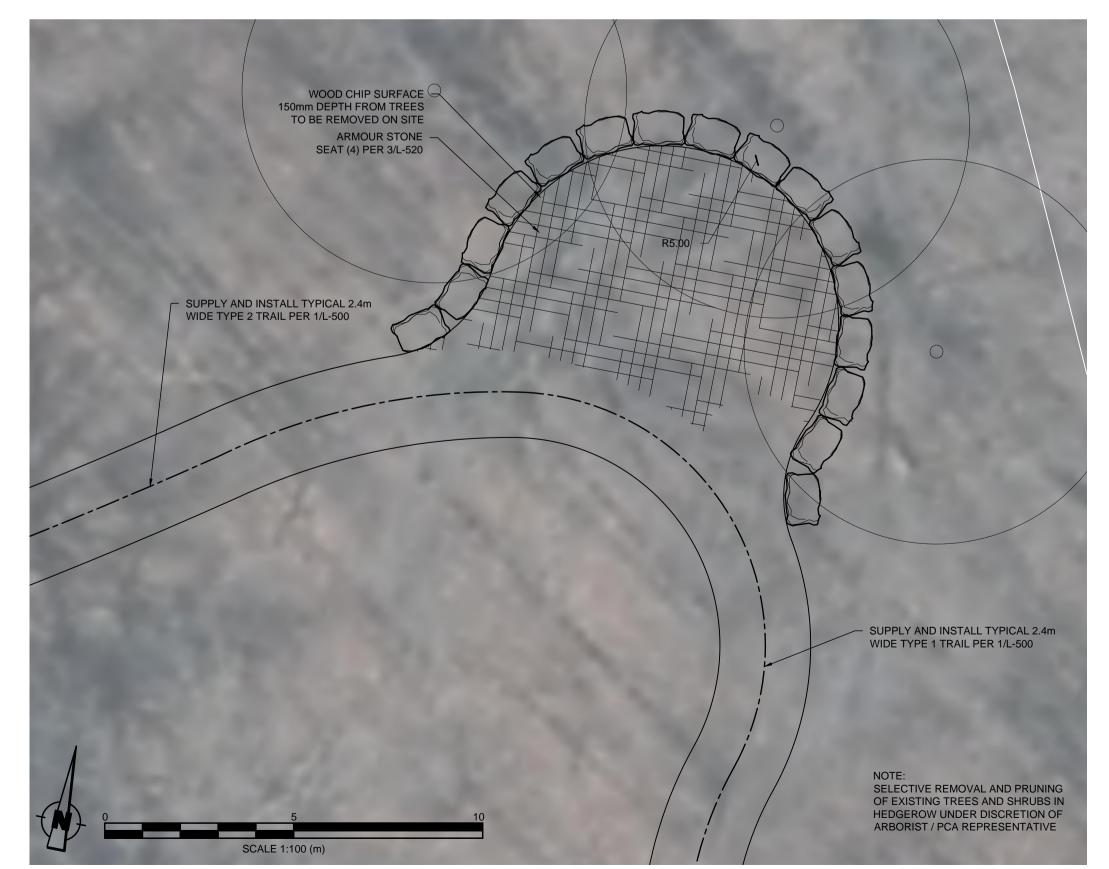
SUPPLY, INSTALL AND REMOVE FILTREXX SOXX SEDIMENT CONTROL PER 5/L-520

PROPOSED SWALE/DITCH

INVASIVE SPECIES ZONE

PROPOSED POST AND WIRE FENCE

EXISTING TREE



TRAIL NODE IN FOREST NORTHWEST OF REESOR NORTH

2 23/10/2018 ISSUE FOR TENDER NM/JB JC 1 04/10/2018 ISSUE FOR CLIENT REVIEW NM/JB JC NO DATE REVISION/ISSUED BY APPD Landscape Architecture 582 Lancaster Street West Kitchener, ON N2K 1M3 t. 519-743-8777 www.wsp.com CLIENT: PROJECT TITLE: ROUGE NATIONAL URBAN PARK NORTHERN AREA TRAILS SITE ADDRESS: 10725 REESOR ROAD MARKHAM, ON DRAWING TITLE: AREA ENLARGEMENT DETAILS COUSTO ON NO CHECKED JC DESIGNED JC/NM DRAWN SCALE 1:500 DATE OCTOBER 2018

PROJECT NUMBER

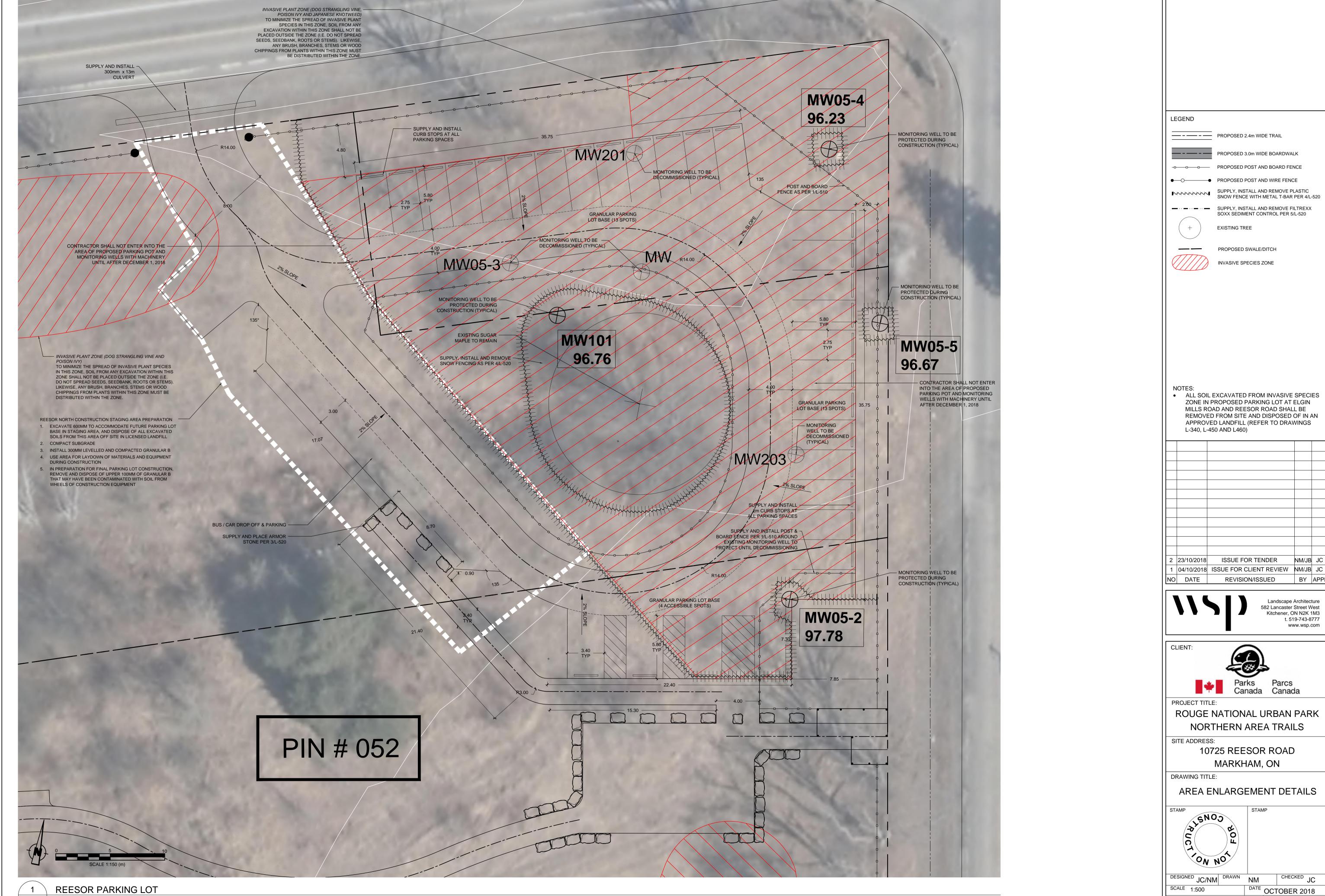
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DWG. NUMBER

L-440

Scale: 1:100

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L-450

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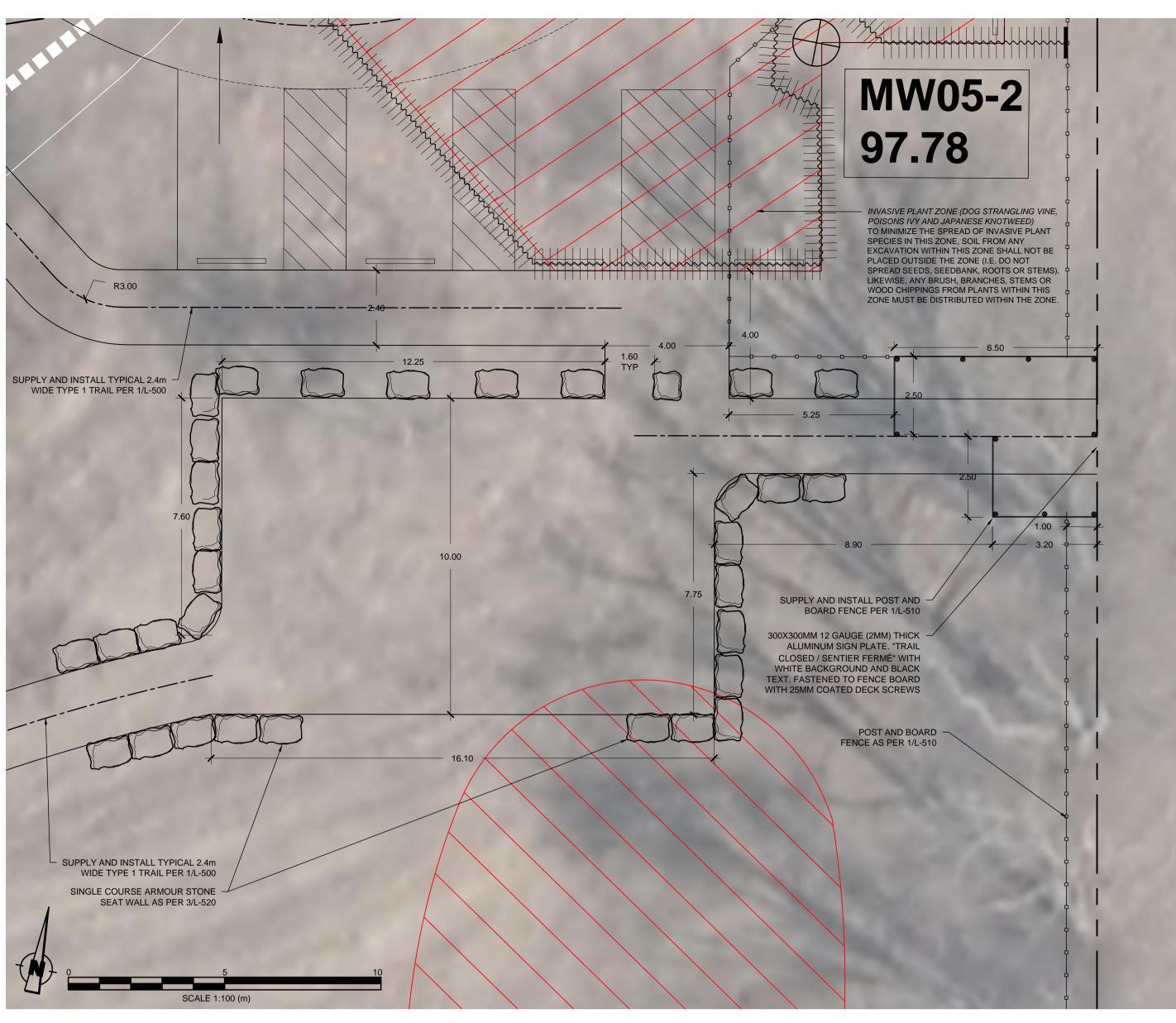
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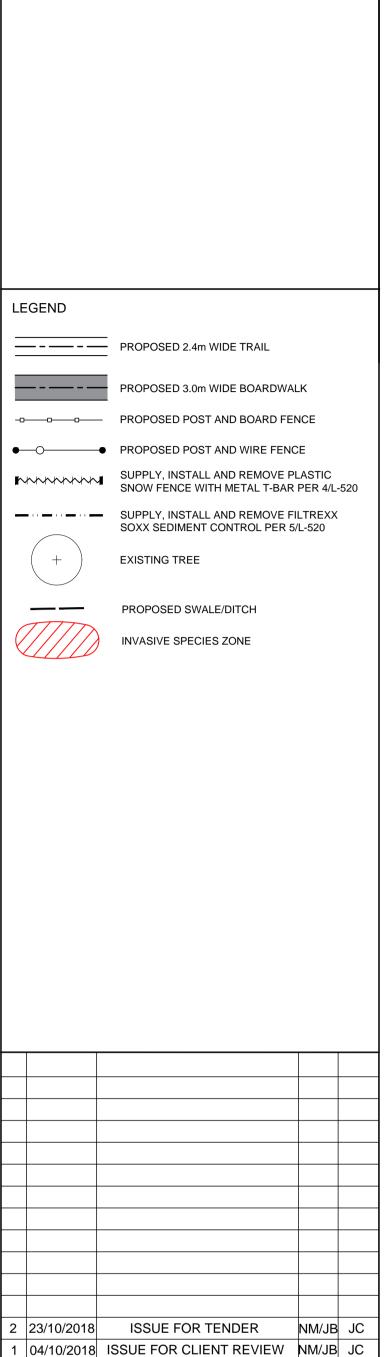
PROJECT NUMBER

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TRAIL NODE AT REESOR NORTH PARKING LOT

Scale: 1:100





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NO DATE



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PROJECT TITLE:

ROUGE NATIONAL URBAN PARK NORTHERN AREA TRAILS

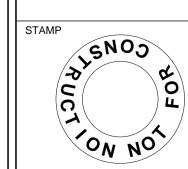
REVISION/ISSUED

SITE ADDRESS:

10725 REESOR ROAD MARKHAM, ON

DRAWING TITLE:

AREA ENLARGEMENT DETAILS



NM CHECKED JC

DESIGNED JC/NM DRAWN NM CHECKED JC

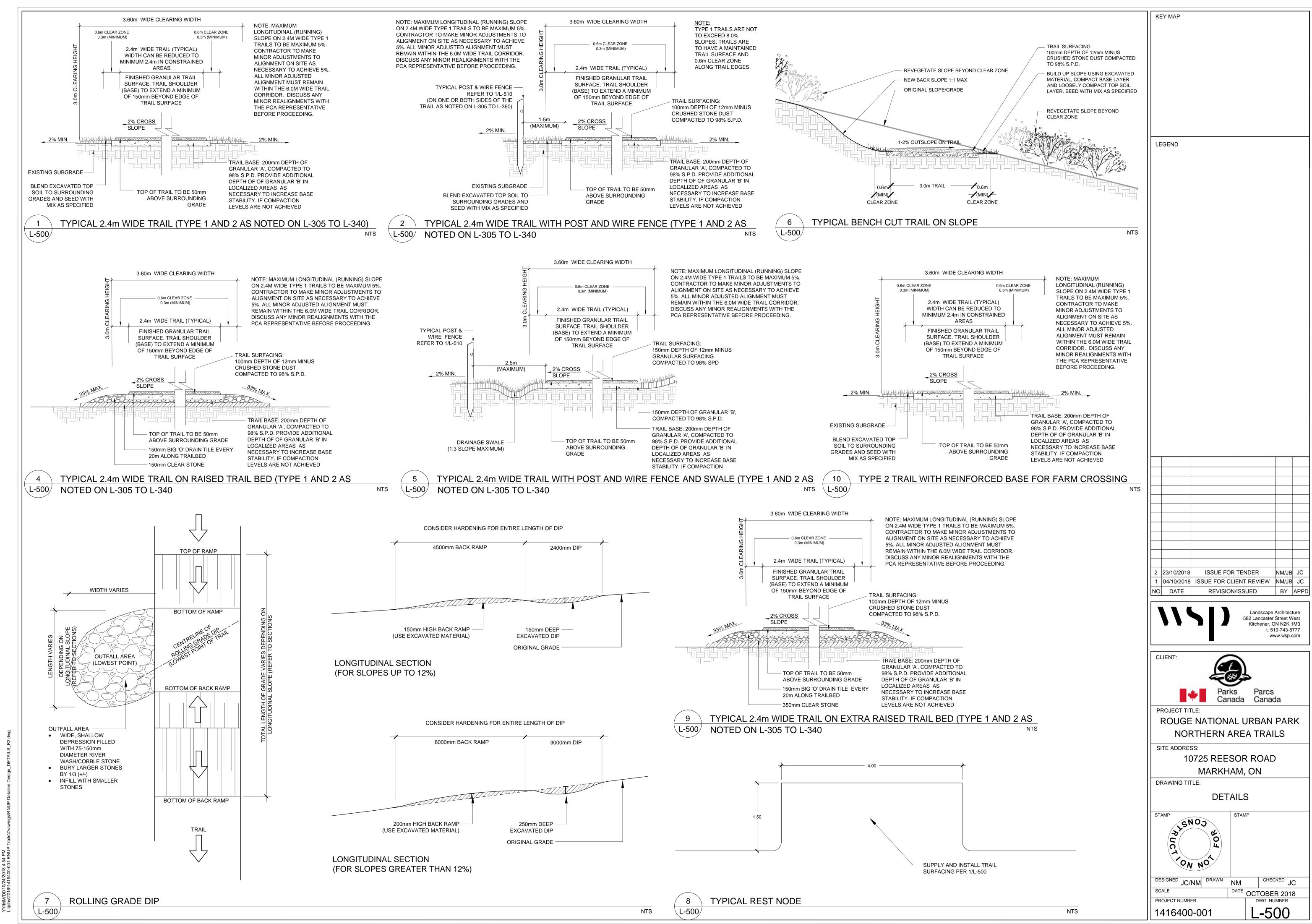
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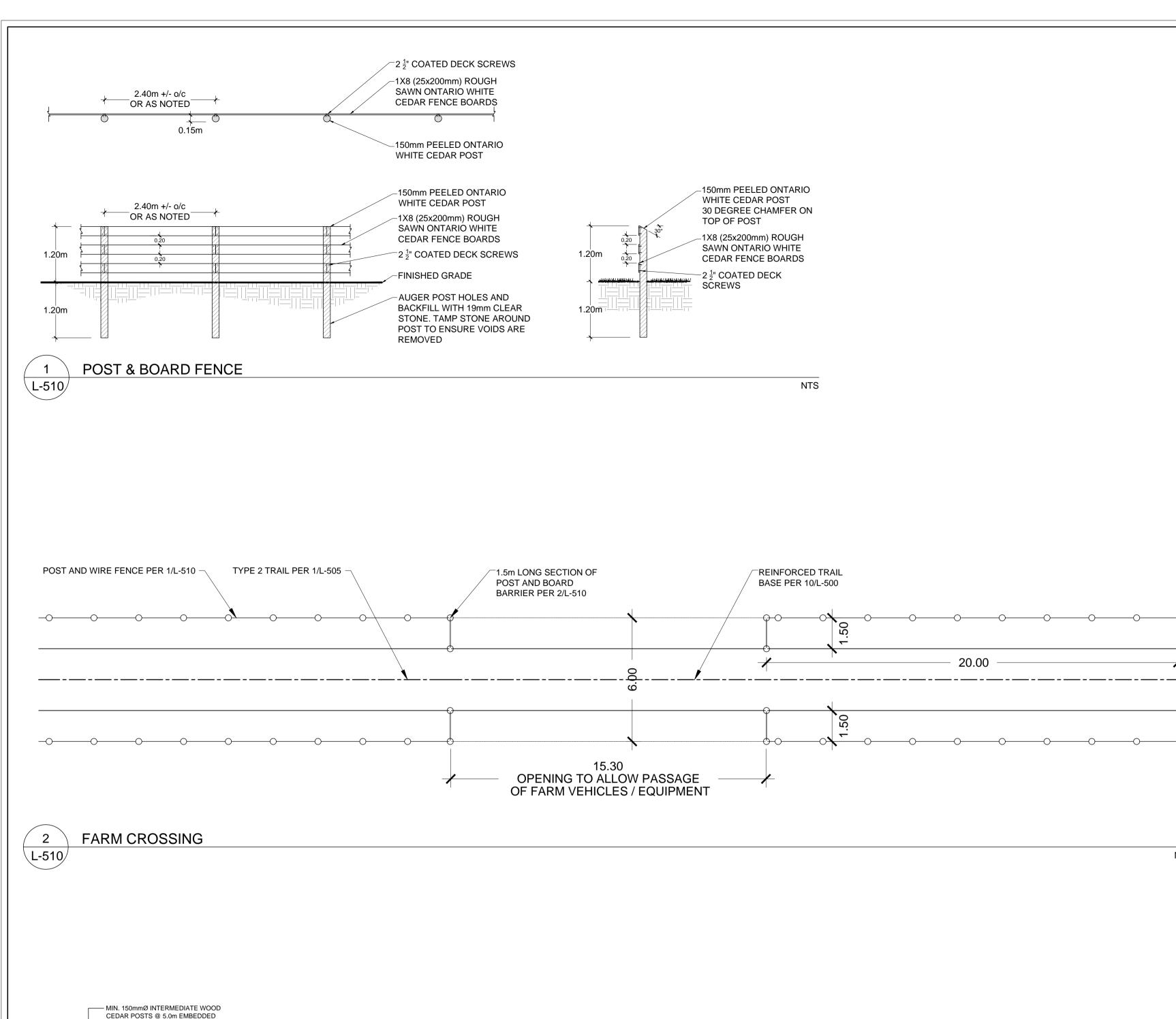
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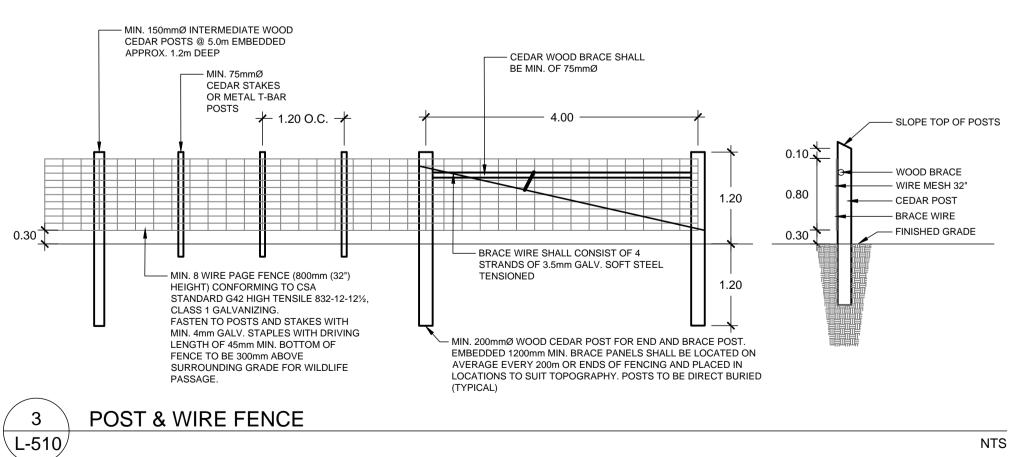
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L-460

L-460

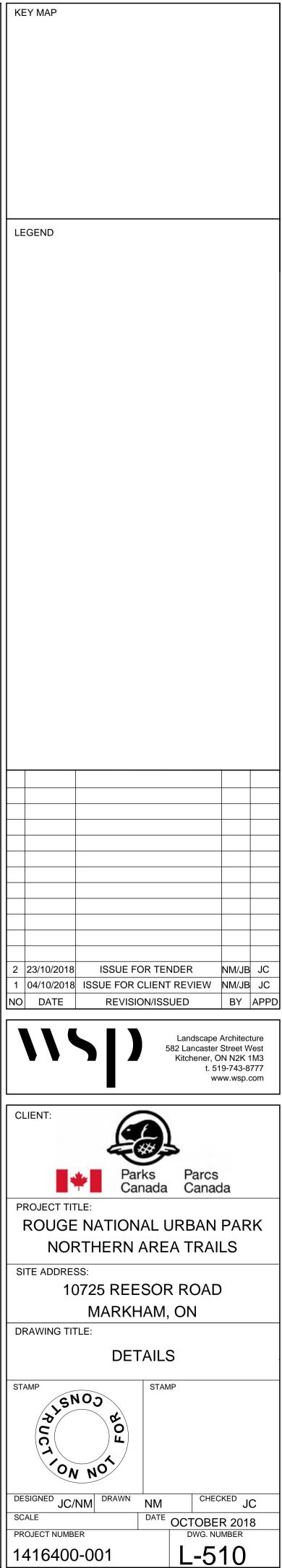






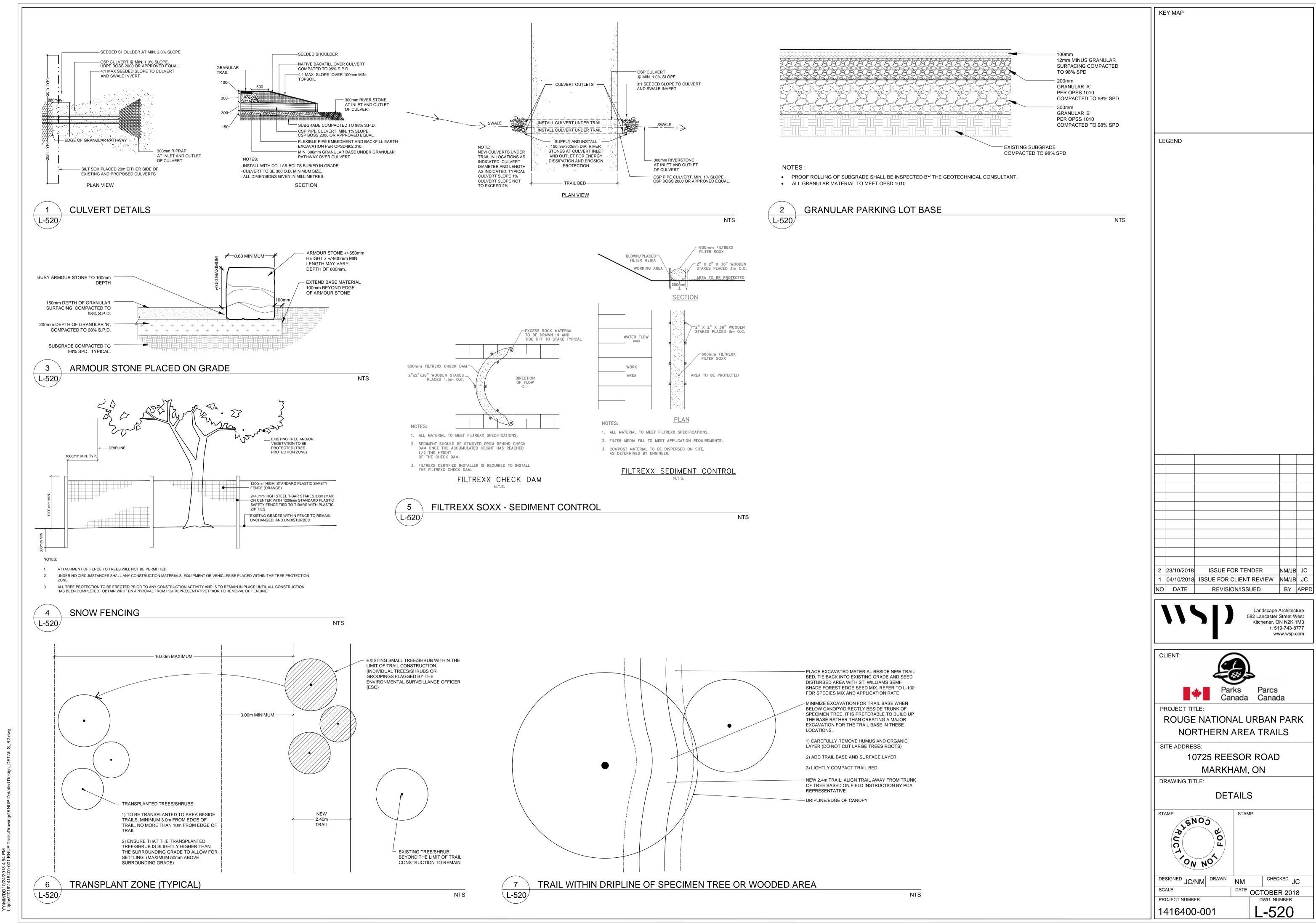
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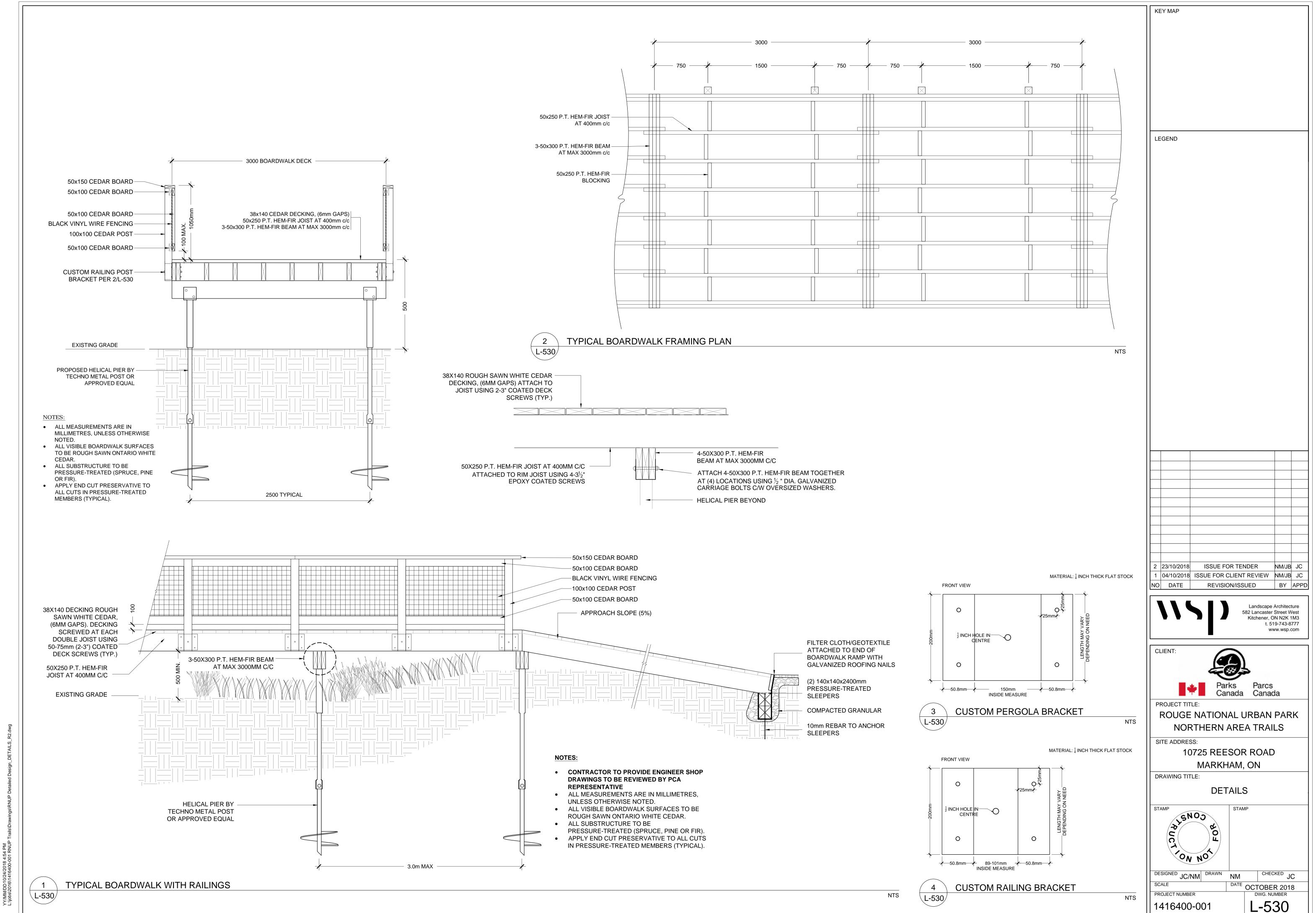
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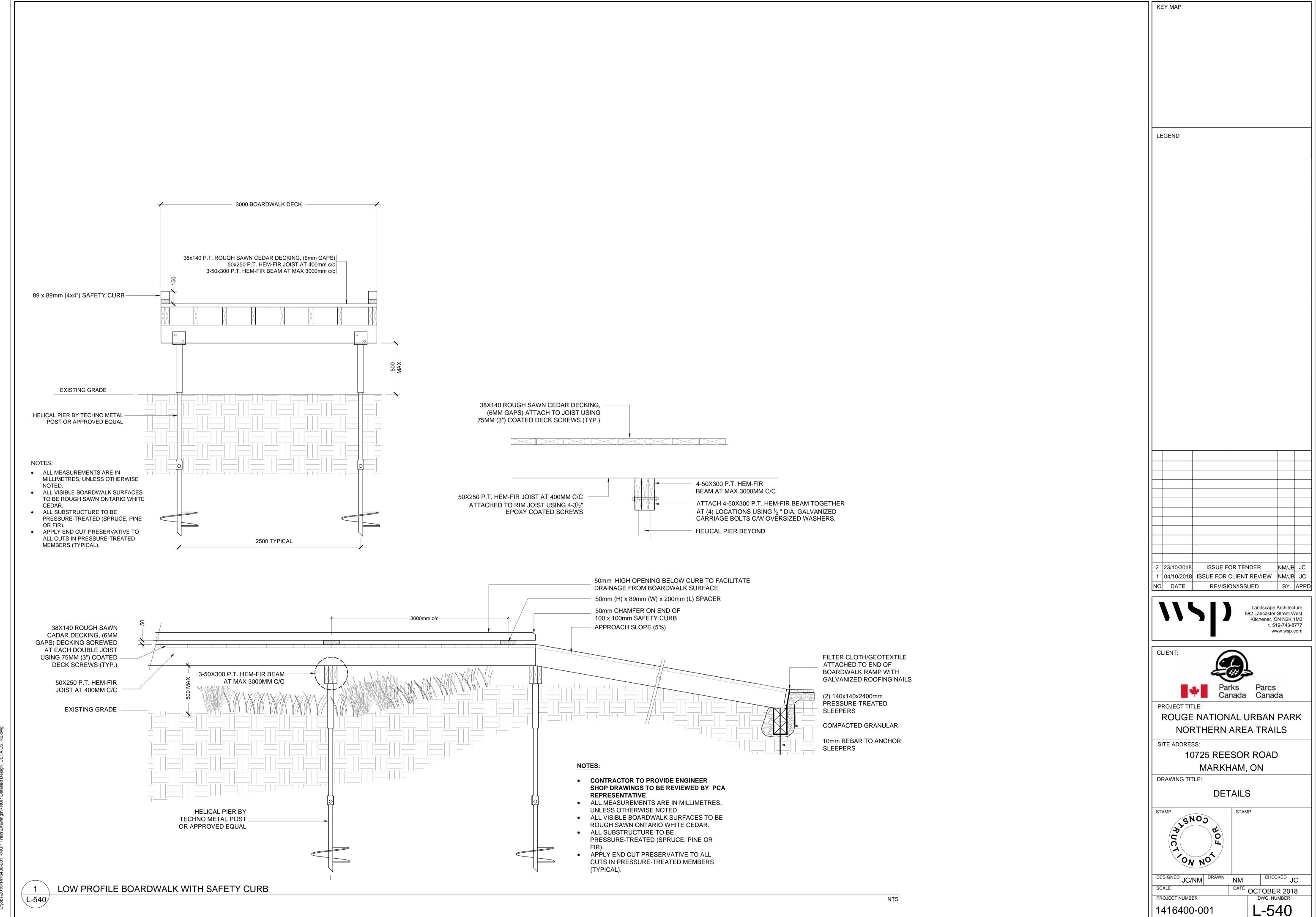


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