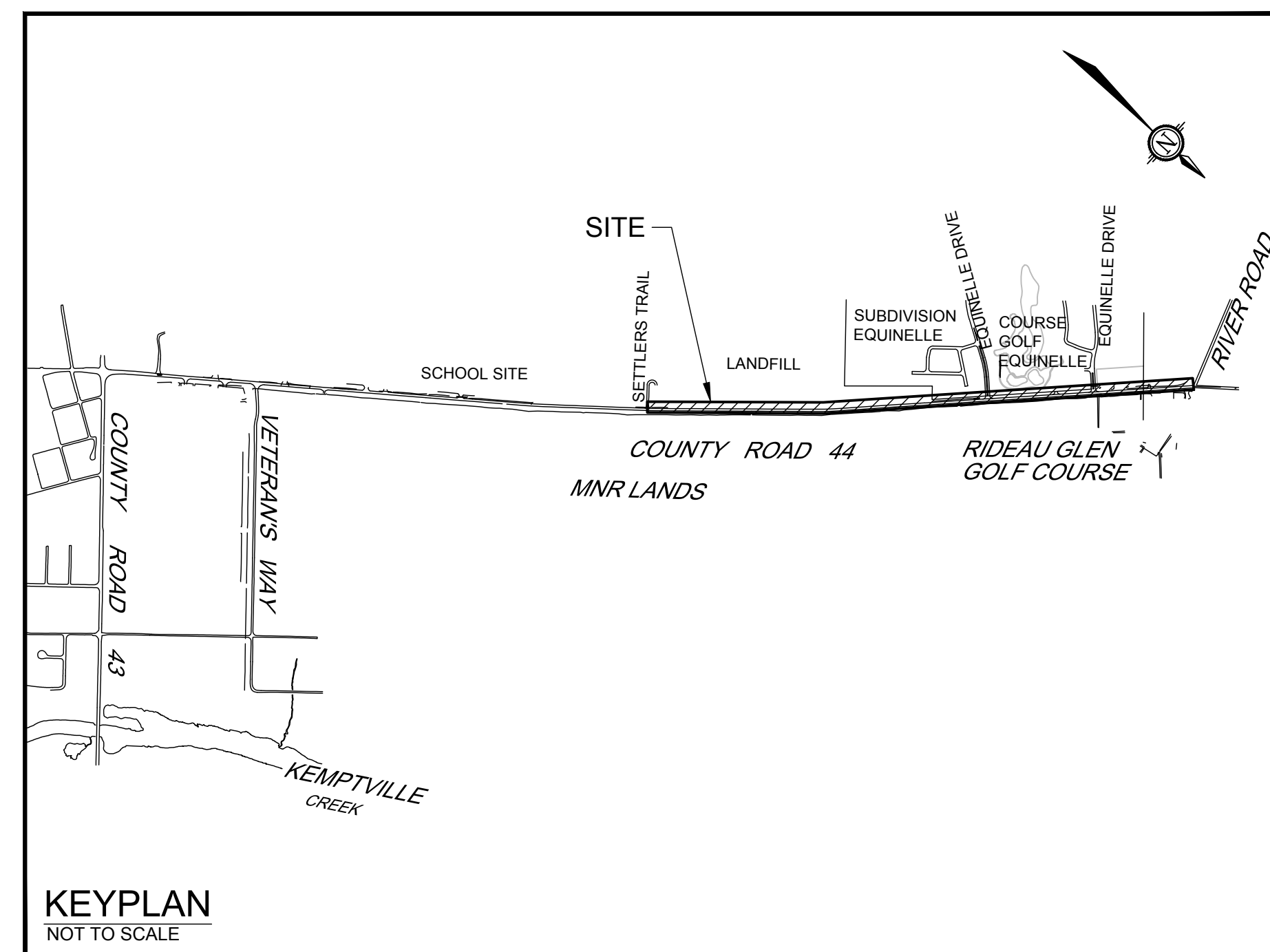


COUNTY ROAD 44 MULTI USE PATHWAY

MUNICIPALITY OF NORTH GRENVILLE

ASPHALT PATHWAY



NOVATECH

Engineers, Planners & Landscape Architects
Suite 200, 240 Michael Cowpland Drive
Ottawa, Ontario, Canada K2M 1P6

Telephone (613) 254-9643
Facsimile (613) 254-5867
Website www.novatech-eng.com

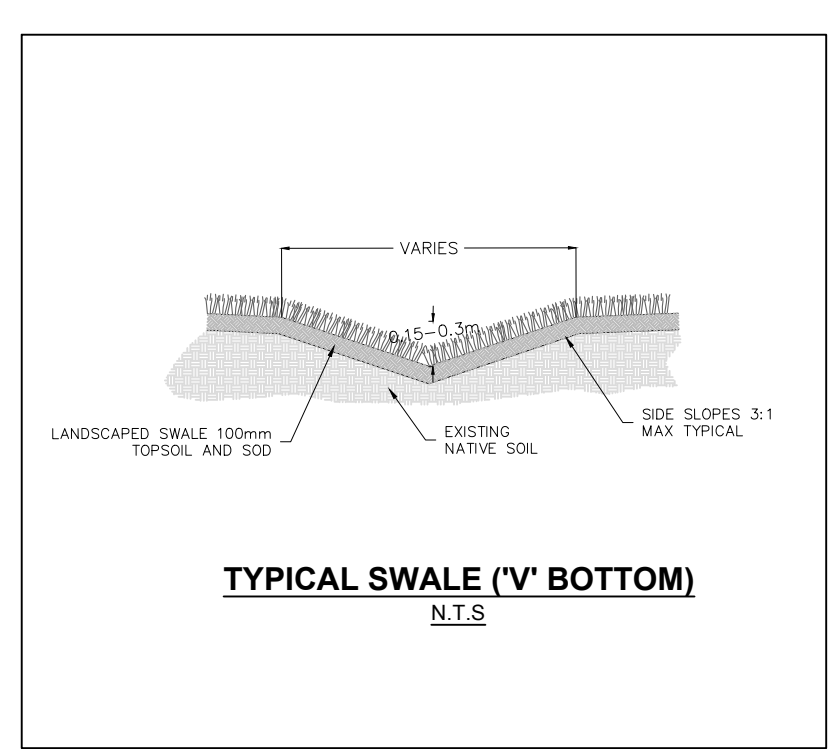
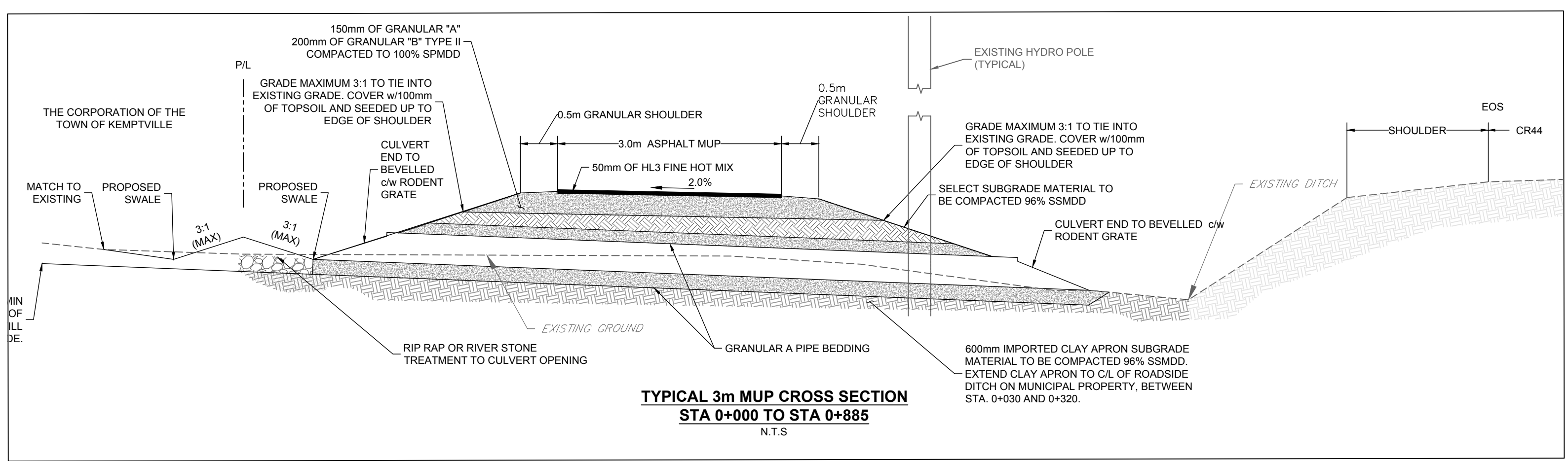
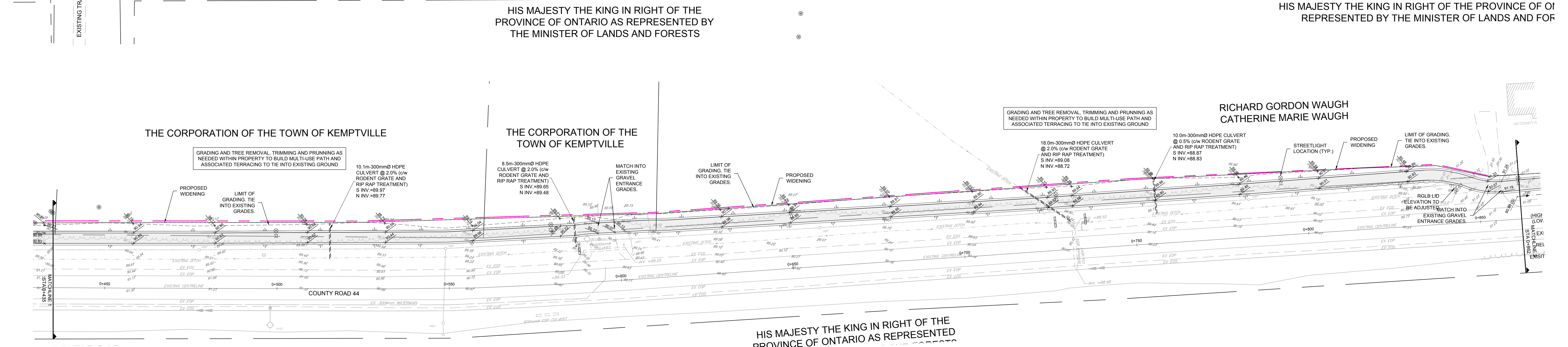
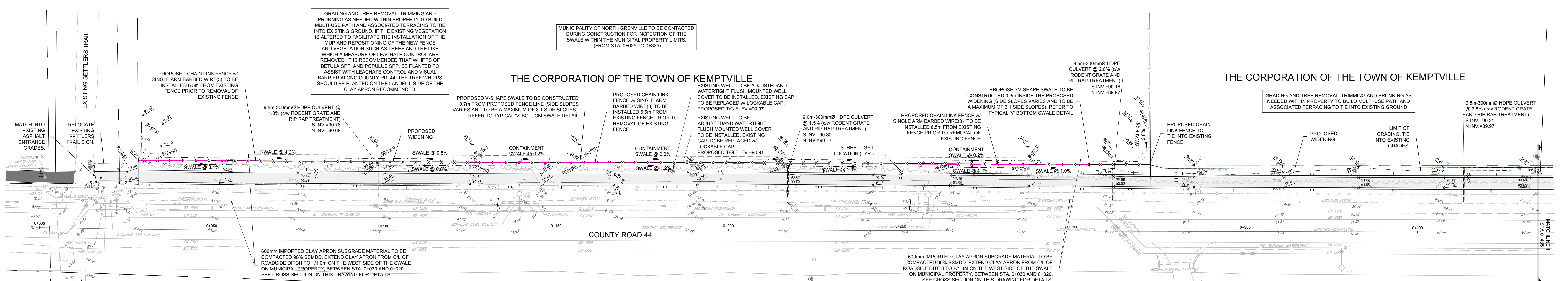
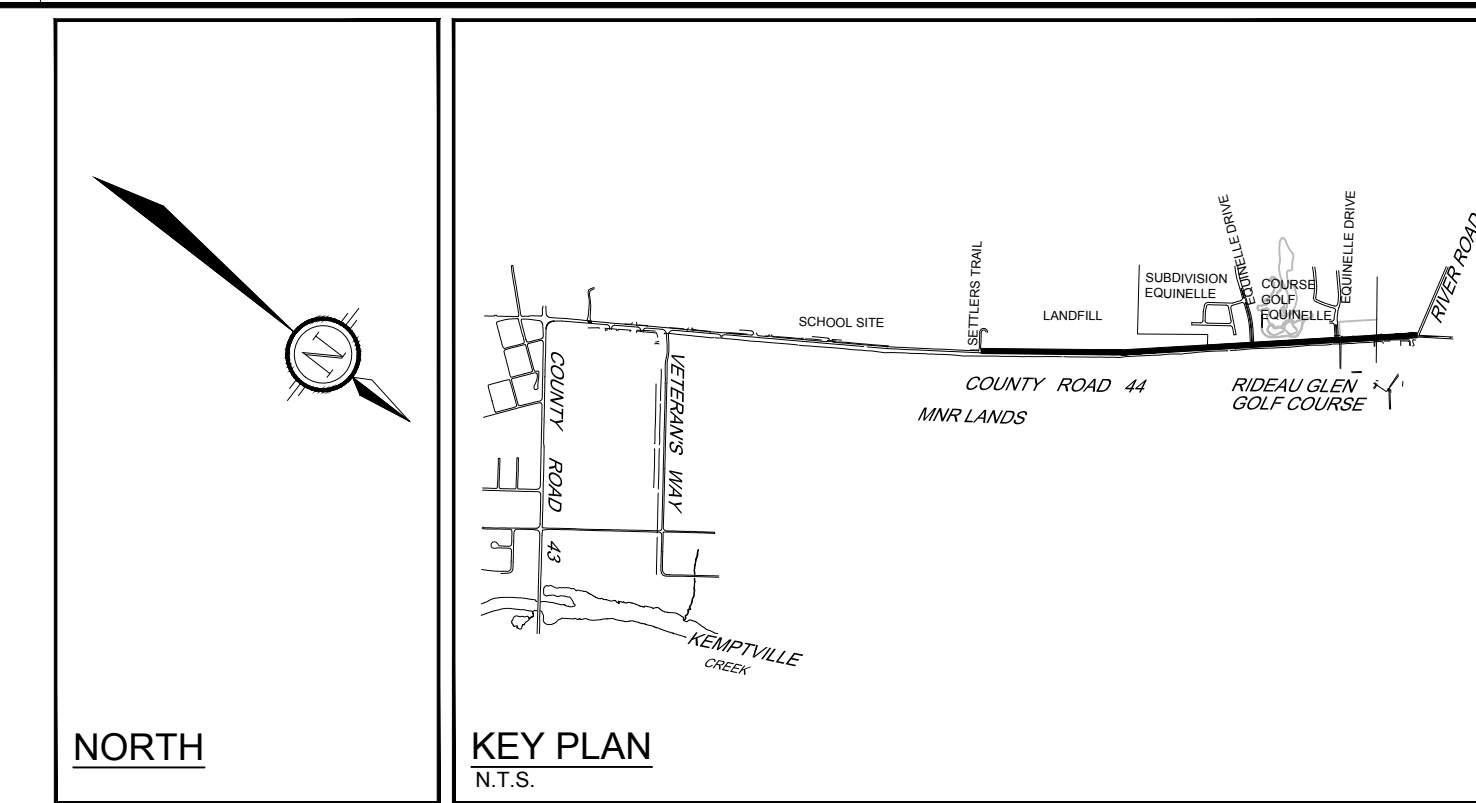


PROJECT No. 123066

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123066-GR1	COUNTY RD 44 MULTI USE PATH	STATION 0+000 to STATION 0+855
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123066-GR3	COUNTY RD 44 MULTI USE PATH	STATION 1+100 to STATION 1+418
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123066-SL3	STREETLIGHT LOCATION PLAN	STATION 2+450 to STATION 3+665

ISSUED FOR TENDER



LEGEND

90.70	PROPOSED ELEVATION	---	PROPOSED SILT FENCE	---	EXISTING BUSHES AND VEGETATION
90.70(S)	EXISTING ELEVATION	---	PROPOSED RETAINING WALL	○	EXISTING WELL
90.70(TC)	PROPOSED SWALE ELEVATION	---	STRAIN BALE CHECK DAM OPSD 218 180	○	EXISTING WATER SAMPLING LOCATION
2.0%	PROPOSED TOP OF CURB ELEVATION	---	PROPOSED STREETLIGHT	○	EXISTING SANITARY MANHOLE
2.0%	GRADE AND DIRECTION	---	EXISTING CHAIN LINK FENCE	○	EXISTING TOP OF GRAVE
---	PROPOSED BARRIER CURB	---	EXISTING WOODEN FENCE	○	EXISTING VALVE & VALVE BOX
---	PROPOSED SUBGRAN/CB LEAD	---	EXISTING WOODEN GUARDRAIL	○	EXISTING LIGHT STANDARD
---	PROPOSED CULVERT	---	EXISTING OVERHEAD WIRES	○	EXISTING GAS
---	PROPOSED FENCE	---	EXISTING UTILITY POLE C/W GUY WIRES	○	EXISTING HYDRANT
---	PROPOSED DITCH DIRECTION OF FLOW	---	EXISTING DITCH DIRECTION OF FLOW	○	EXISTING GUY WIRE
---	PROPERTY LINE	---	EXISTING EDGE OF SHOULDER	---	---
---	ADJUSTED PROPERTY LINE	---	EXISTING EDGE OF PAVEMENT	---	---
---	PROPOSED LIMIT OF GRADING	---	EXISTING WATERBRAIN	---	---
---	3.0m ASPHALT MULTI-USE PATHWAY (w/ 0.5m SHOULDER)	---	EXISTING WATERBRAIN	---	---
---	3.0m ASPHALT MULTI-USE PATHWAY (w/ MOUNTABLE CURB)	---	EXISTING SANITARY MANHOLE	---	---
---	CB 1	---	EXISTING CENTRELINE	---	---
---	PROPOSED CATCHBASIN / LAWN CATCHBASIN	---	EXISTING EDGE OF PAVEMENT	---	---
---	DICB	---	EXISTING DITCH	---	---
---	PROPOSED DITCH	---	EXISTING GRAVEL PATH	---	---
---	RIP RAP TREATMENT FOR END CULVERT AND TRANSITIONS	---	---	---	---

FOR STREETLIGHT DETAILS REFER TO:

- 123066-SL1
- 123066-SL2
- 123066-SL3

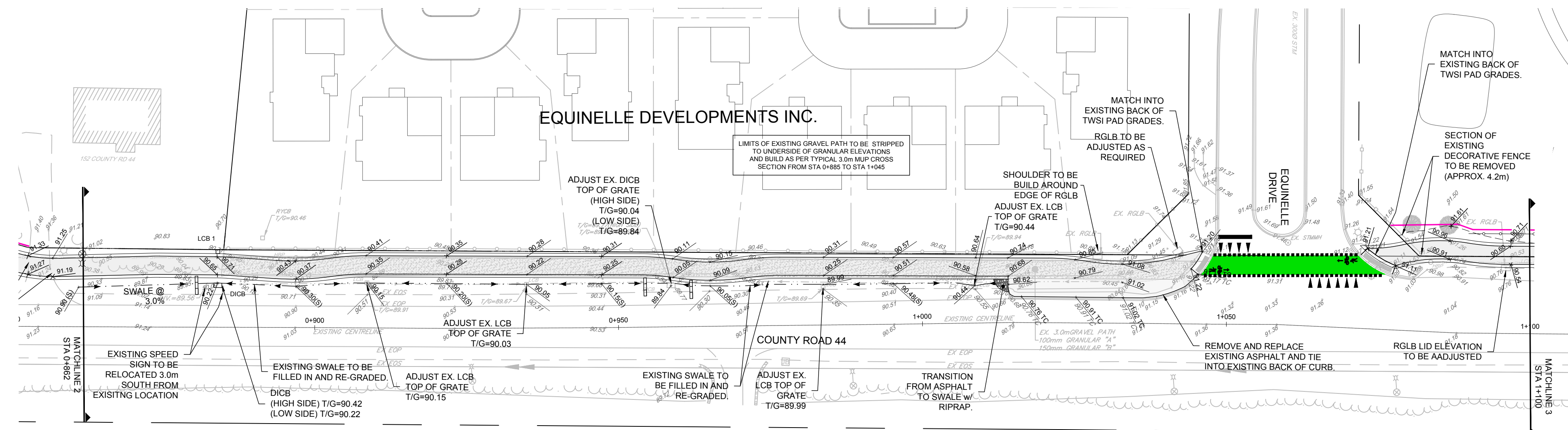
REFER TO 123066-ND FOR ADDITIONAL NOTES

NOTE:
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SCALE		FOR REVIEW ONLY	
1:500		DESIGN	CJR
1:500		CHECKED	CJR
0 5 10 15 20		DRAWN	LPA
		CHECKED	JLS
		APPROVED	CJR
No.	REVISION	DATE	BY
2	ISSUED FOR TENDER	JAN 31/25	CJR
1	PRELIMINARY DRAWINGS ISSUED TO MUNICIPALITY	AUG 23/24	CJR

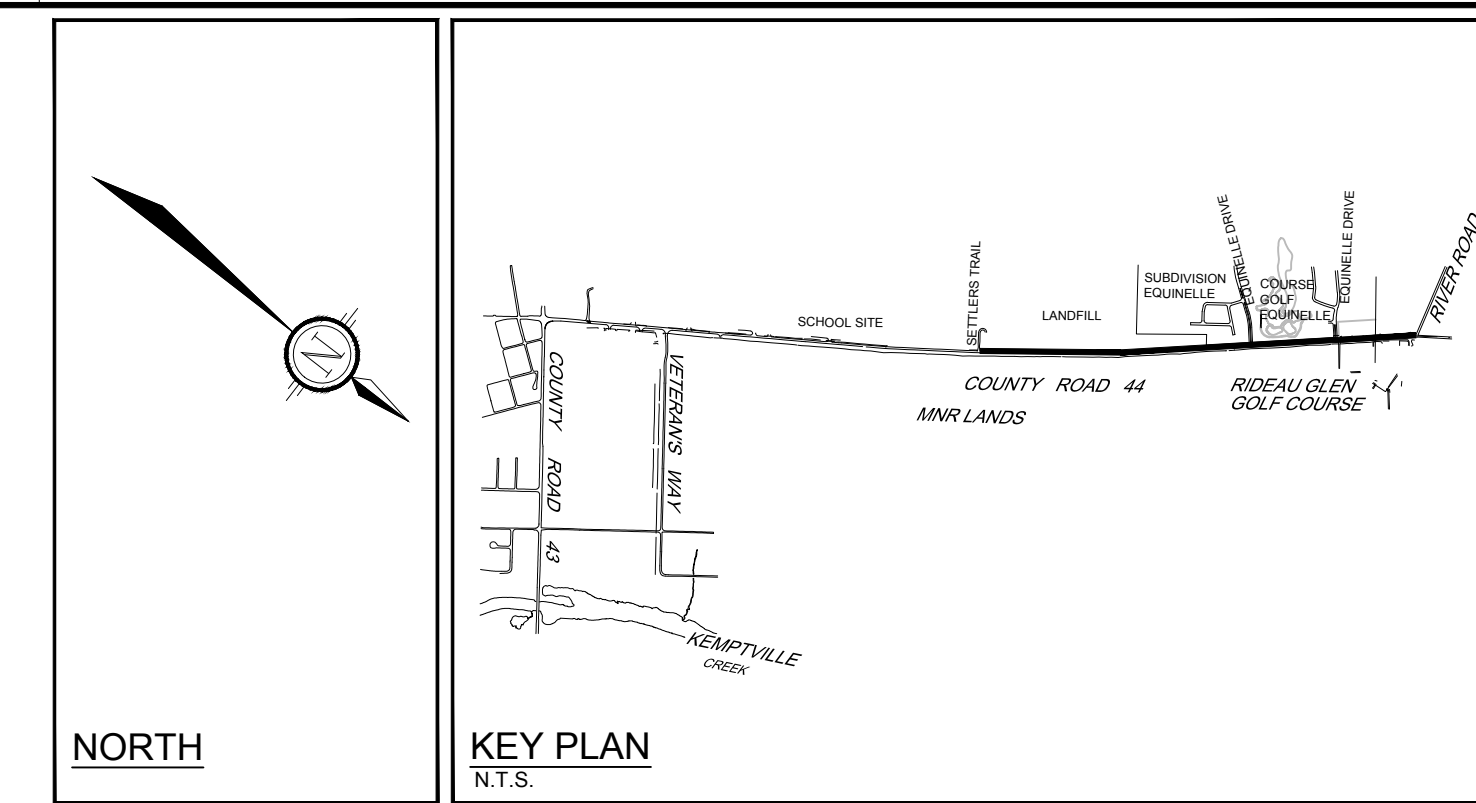
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LOCATION TOWN OF KEMPTVILLE MUNICIPALITY OF NORTH GRENVILLE		PROJECT NO.	123066
DRAWING NAME COUNTY RD 44 MULTI USE PATH STA 0+000 TO STA 0+855		REV	REV # 2
		DRAWING NO.	123066-GR1



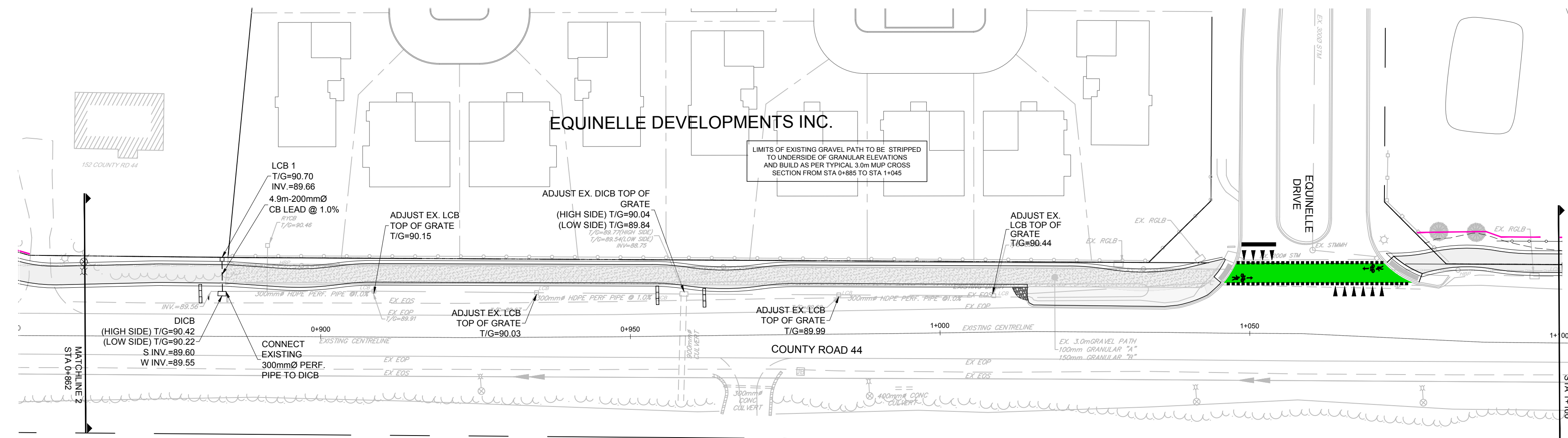
HIS MAJESTY THE KING IN RIGHT OF THE PROVINCE OF ONTARIO AS REPRESENTED BY THE MINISTER OF LANDS AND FORESTS

GRADING PLAN
STA. 0+862 TO STA. 1+100



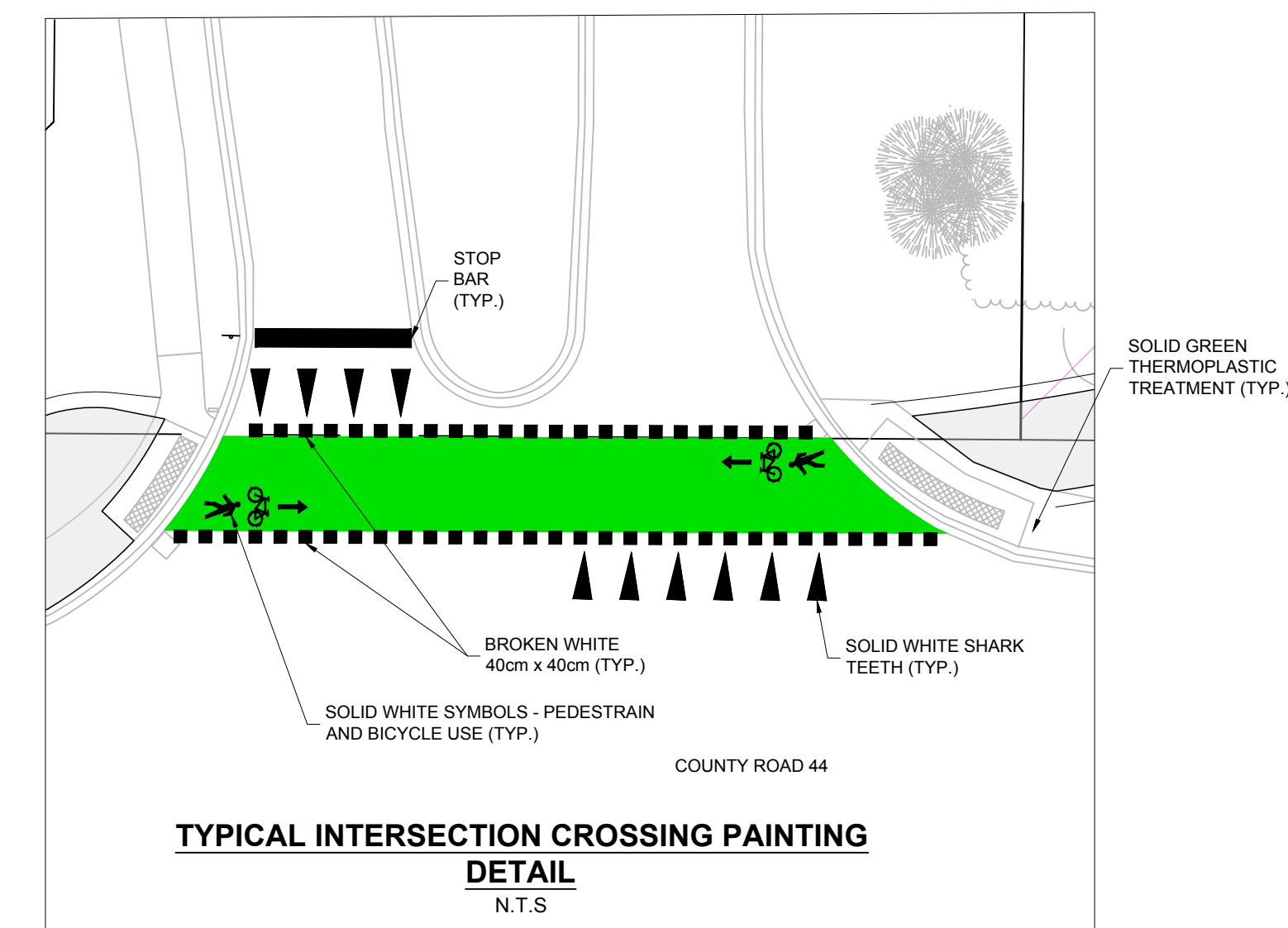
LEGEND

PROPOSED ELEVATION	PROPOSED SILT FENCE	EXISTING BUSHES AND VEGETATION
EXISTING ELEVATION	PROPOSED RETAINING WALL	EXISTING WELL
PROPOSED SWALE ELEVATION	STRAW BALE CHECK DAM OPSD 219.180	EXISTING WATER SAMPLING LOCATION
PROPOSED TOP OF CURB ELEVATION	PROPOSED STREETLIGHT	EXISTING STORM MANHOLE
GRADE AND DIRECTION	EXISTING CHAIN LINK FENCE	EXISTING SANITARY MANHOLE
PROPOSED BARRIER CURB	EXISTING WOODEN FENCE	EXISTING CATCHBASIN
PROPOSED SUBDRAIN / CB LEAD	EXISTING WOODEN GUARDRAIL	EXISTING TOP OF GRATE
PROPOSED FENCE	EXISTING OVERHEAD WIRES	EXISTING VALVE & VALVE BOX
PROPOSED DITCH DIRECTION OF FLOW	EXISTING GAS	EXISTING LIGHT STANDARD
PROPERTY LINE	EXISTING DITCH DIRECTION OF FLOW	EXISTING UTILITY POLE CW GUY WIRES
ADJUSTED PROPERTY LINE	EXISTING EDGE OF SHOULDER	EXISTING HYDRANT
PROPOSED LIMIT OF GRADING	EXISTING EDGE OF SHOULDER	EXISTING GUY WIRE
3.0m ASPHALT MULTI-USE PATHWAY (w/ 0.5m SHOULDER)	EXISTING EDGE OF PAVEMENT	
3.0m ASPHALT MULTI-USE PATHWAY (w/ MOUNTABLE CURB)	EXISTING WATERMAIN	
CB 1	EXISTING SANITARY MAIN	
DICB	EXISTING CENTRALINE	
PROPOSED CATCHBASIN / LAWN CATCHBASIN	EXISTING EDGE OF PAVEMENT	
PROPOSED DICB	EXISTING GRAVEL PATH	
RIP RAP TREATMENT FOR END CULVERT AND TRANSITIONS		

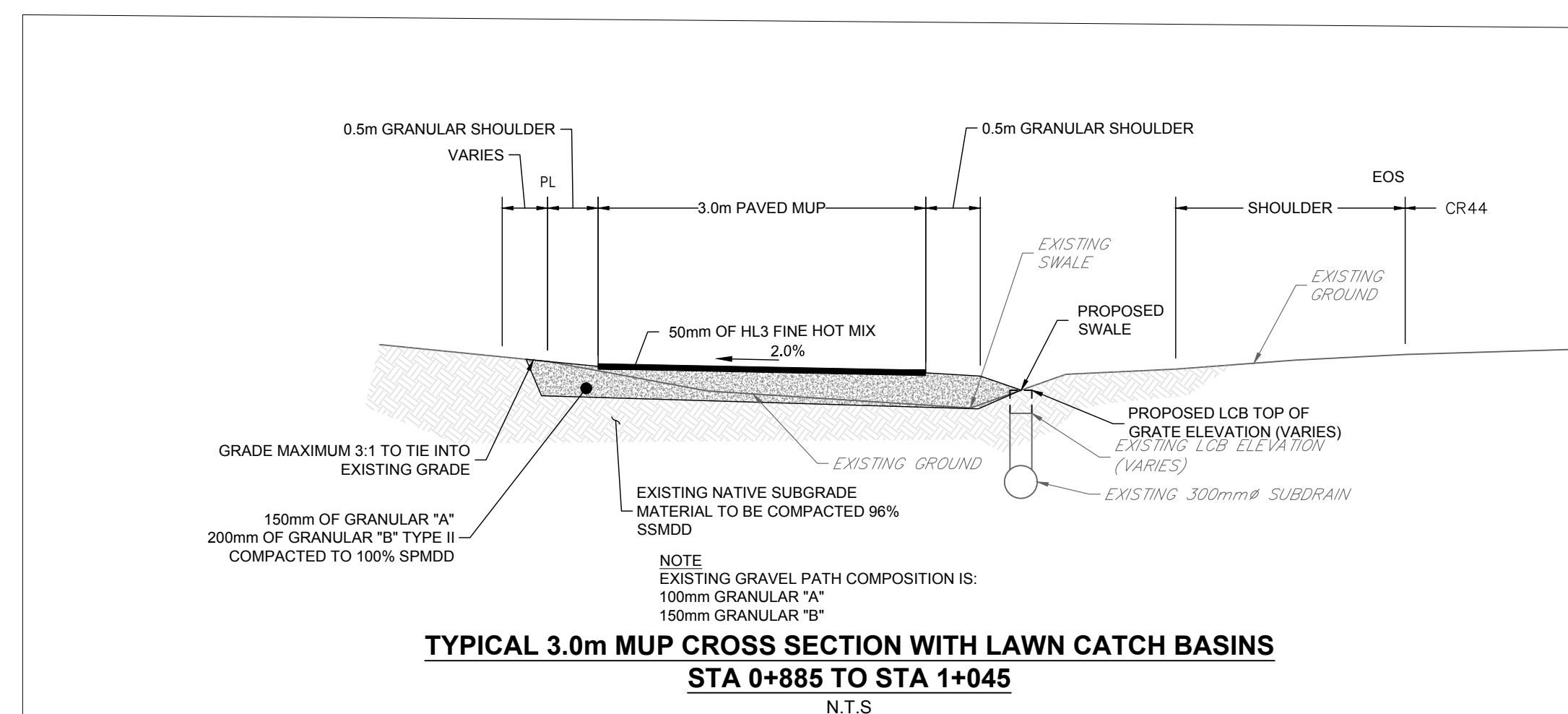


HIS MAJESTY THE KING IN RIGHT OF THE PROVINCE OF ONTARIO AS REPRESENTED BY THE MINISTER OF LANDS AND FORESTS

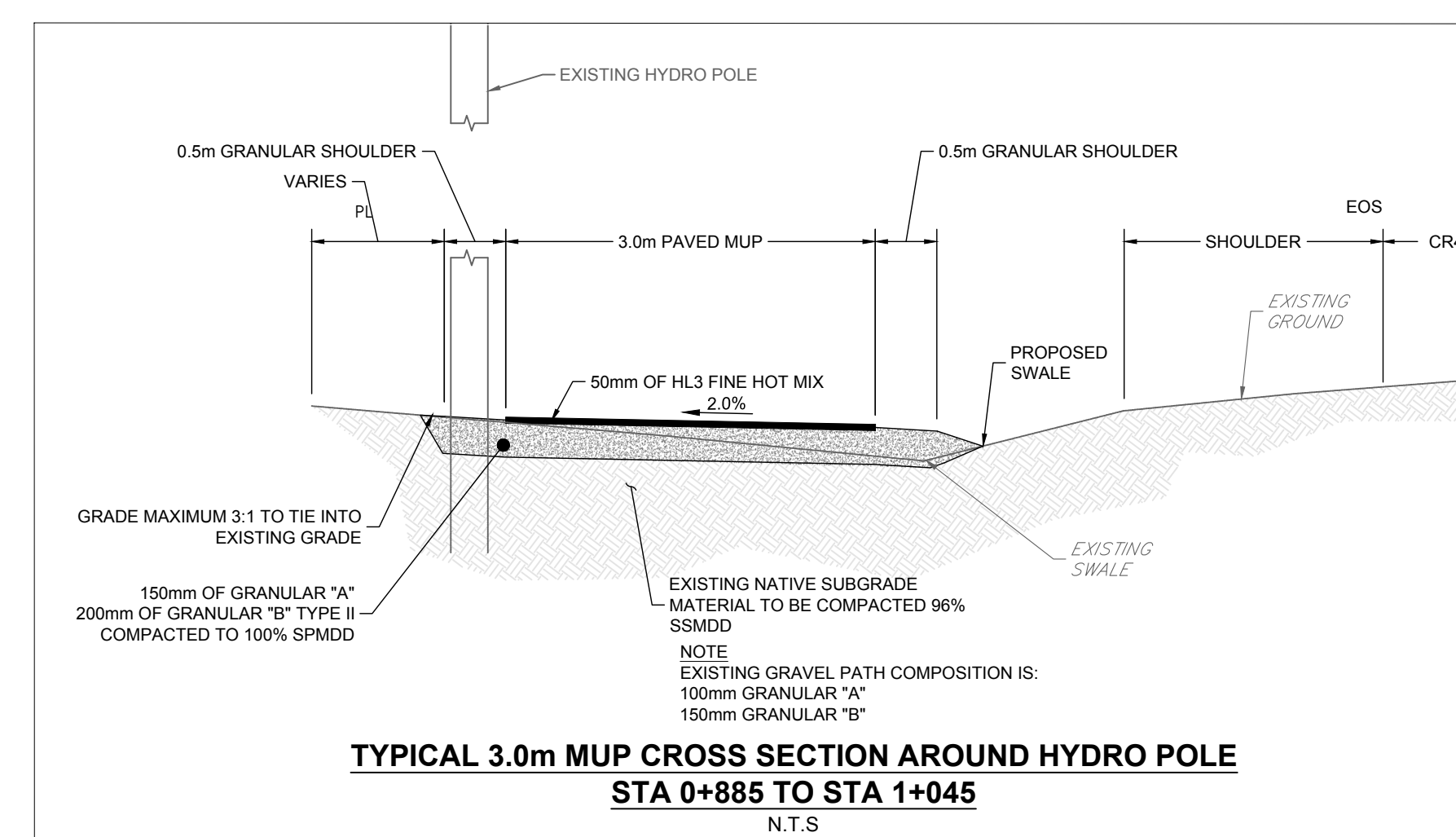
SERVICING PLAN
STA. 0+862 TO STA. 1+100



TYPICAL INTERSECTION CROSSING PAINTING
DETAIL
N.T.S.



TYPICAL 3.0m MUP CROSS SECTION WITH LAWN CATCH BASINS
STA 0+885 TO STA 1+045
N.T.S.



TYPICAL 3.0m MUP CROSS SECTION AROUND HYDRO POLE
STA 0+885 TO STA 1+045
N.T.S.

- FOR STREETLIGHT DETAILS REFER TO:
- 123066-SL1
 - 123066-SL2
 - 123066-SL3

REFER TO 123066-ND FOR ADDITIONAL NOTES

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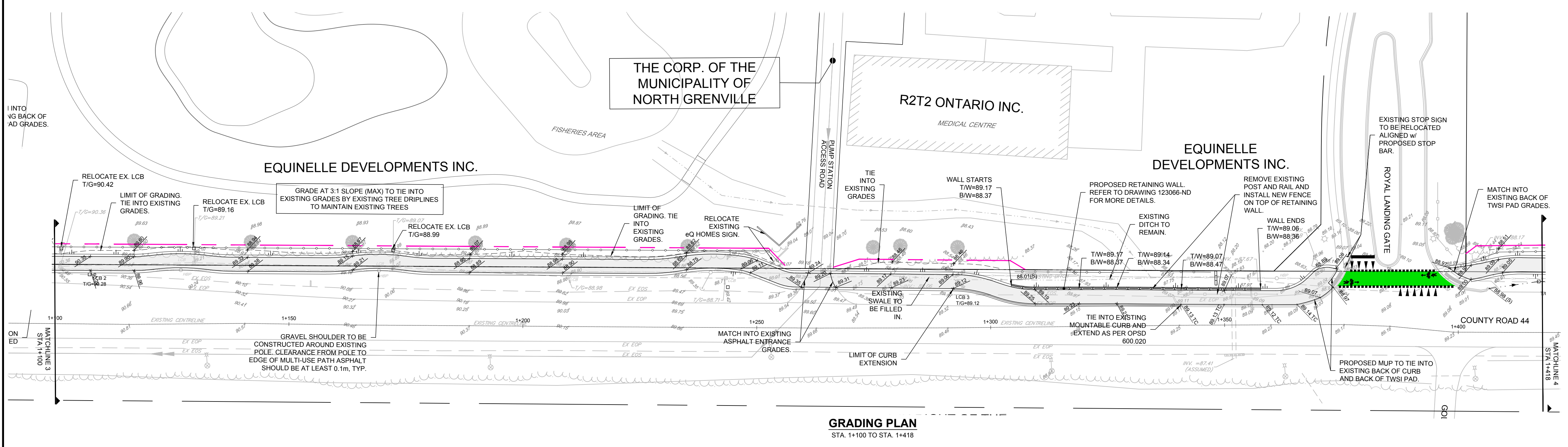
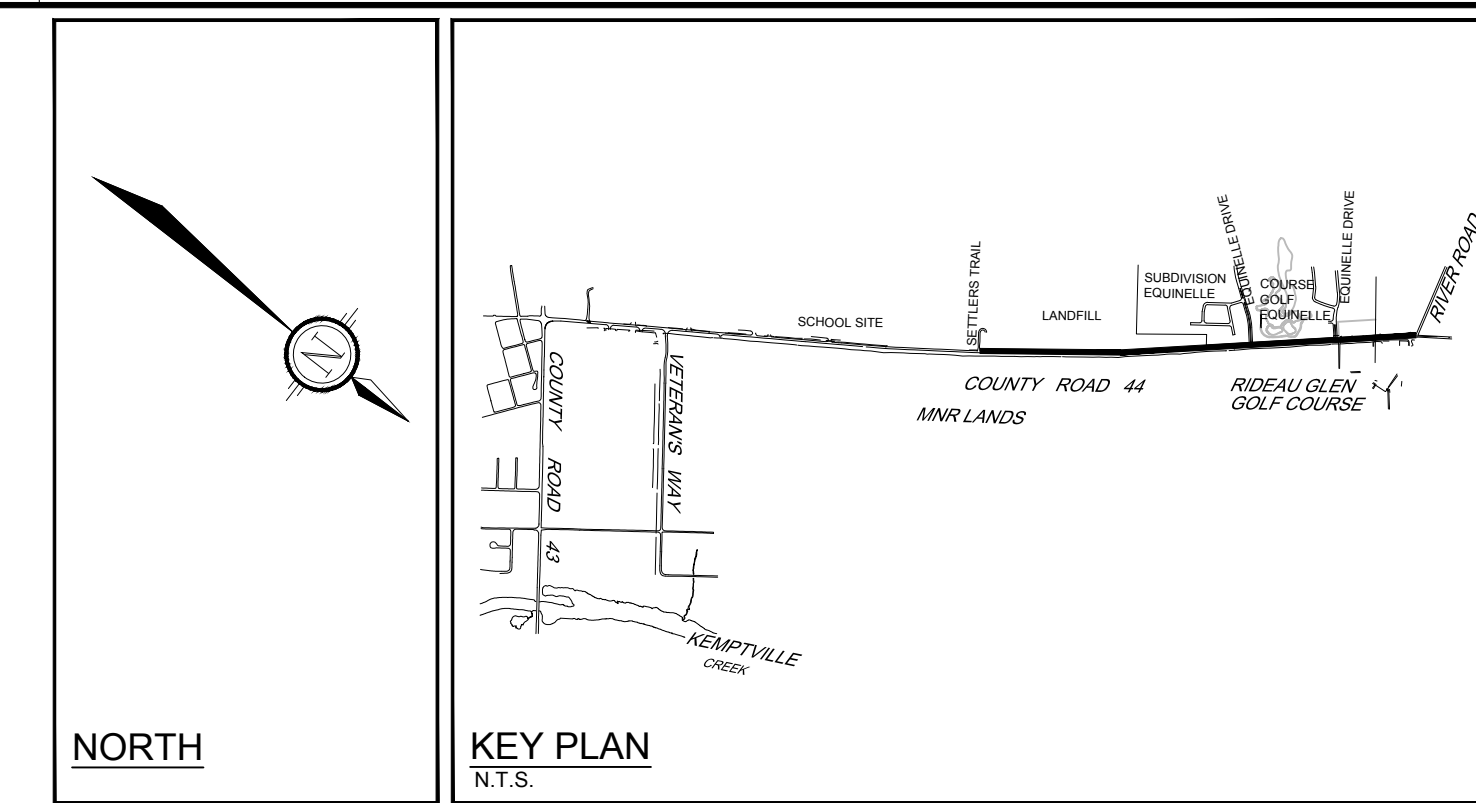
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1. PRELIMINARY DRAWINGS ISSUED TO MUNICIPALITY AUG 23/24 CJR		CJR	
No. REVISION DATE BY		APPROVED JLS	

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LOCATION
TOWN OF KEMPTVILLE
MUNICIPALITY OF NORTH GRENVILLE

DRAWING NAME
COUNTY RD 44 MULTI USE PATH
STA 0+855 TO STA 1+100

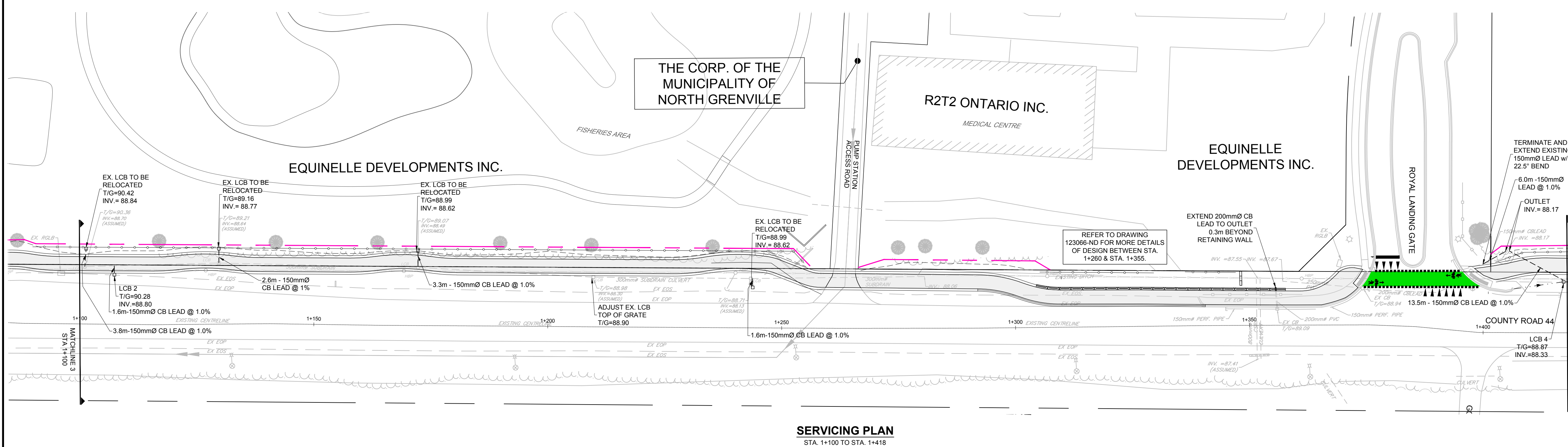
PROJECT No. 123066
REV # 2
DRAWING No. 123066-GR2



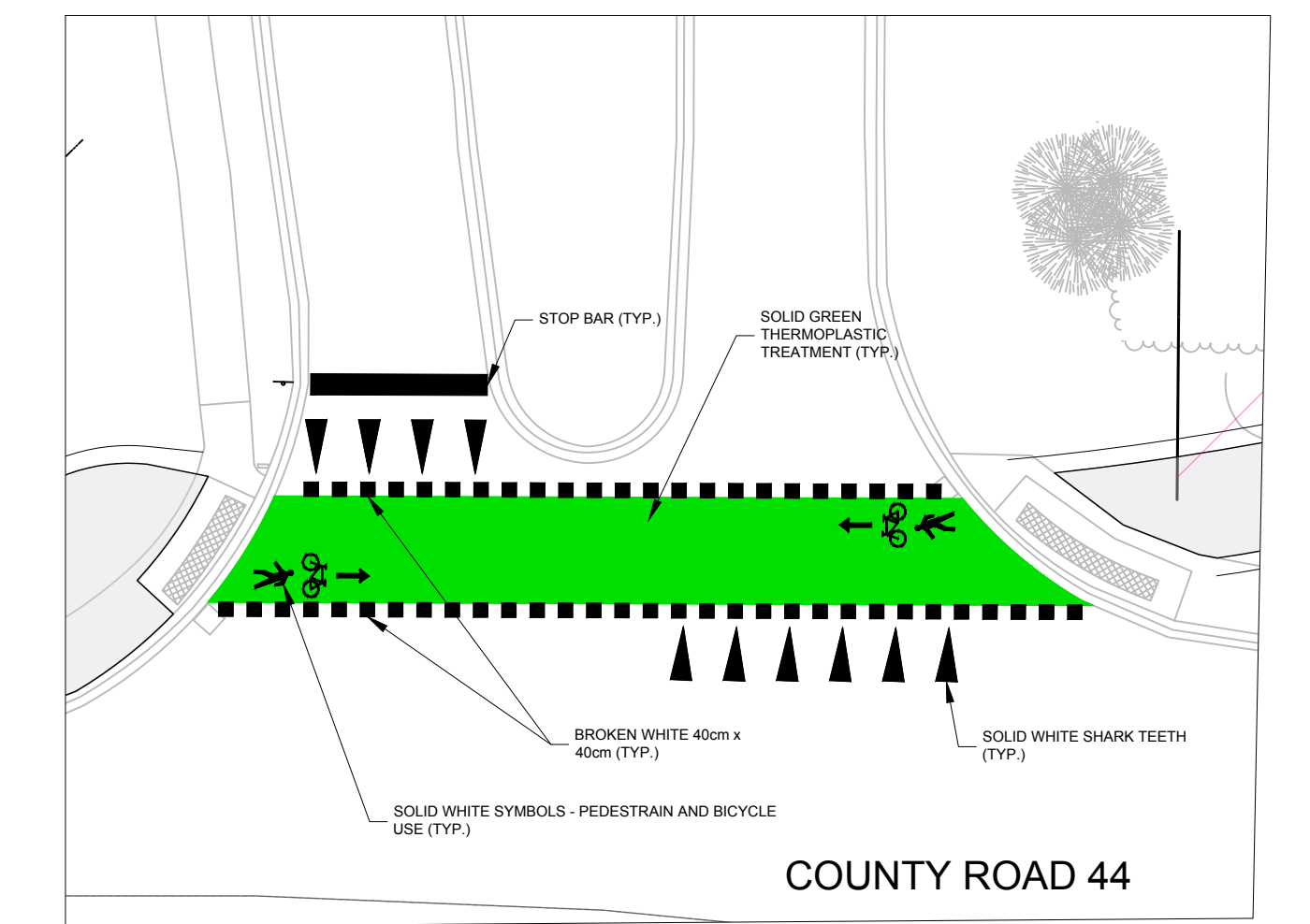
LEGEND

90 TO 90 TO (B)	PROPOSED ELEVATION	PROPOSED SILT FENCE	EXISTING BUSHES AND VEGETATION
90 TO 1C	EXISTING ELEVATION	PROPOSED RETAINING WALL	EXISTING WELL
2.0%	PROPOSED SWALE ELEVATION	STRAW BALE CHECK DAM OPSD 219.180	EXISTING WATER SAMPLING LOCATION
	PROPOSED TOP OF CURB ELEVATION	PROPOSED STREETLIGHT	EXISTING STORM MANHOLE
	PROPOSED GRADE AND DIRECTION	EXISTING CHAIN LINK FENCE	EXISTING SANITARY MANHOLE
	PROPOSED BARRIER CURB	EXISTING WOODEN FENCE	EXISTING CATCHBASIN
	PROPOSED SUBDRAIN / CB LEAD	EXISTING WOODEN GUARDRAIL	EXISTING TOP OF GRATE
	PROPOSED CULVERT	EXISTING OVERHEAD WIRES	EXISTING VALVE & VALVE BOX
	PROPOSED FENCE	EXISTING GAS	EXISTING LIGHT STANDARD
	PROPOSED DITCH DIRECTION OF FLOW	EXISTING DITCH DIRECTION OF FLOW	EXISTING UTILITY POLE CW GUY WIRES
	PROPERTY LINE	EXISTING EDGE OF SHOULDER	EXISTING HYDRANT
	ADJUSTED PROPERTY LINE	EXISTING EDGE OF PAVEMENT	EXISTING GUY WIRE
	ADJUSTED LIMIT OF GRADING	EXISTING WATERMAIN	
	3.0m ASPHALT MULTI-USE PATHWAY (c/w 0.5m SHOULDER)	EXISTING SANITARY MAIN	
	3.0m ASPHALT MULTI-USE PATHWAY (c/w MOUNTABLE CURB)	EXISTING CENTRELINE	
	PROPOSED CATCHBASIN / LAWN CATCHBASIN	EXISTING EDGE OF PAVEMENT	
	PROPOSED DICB	EXISTING GRAVEL PATH	
	RIP RAP TREATMENT FOR END CULVERT AND TRANSITIONS		

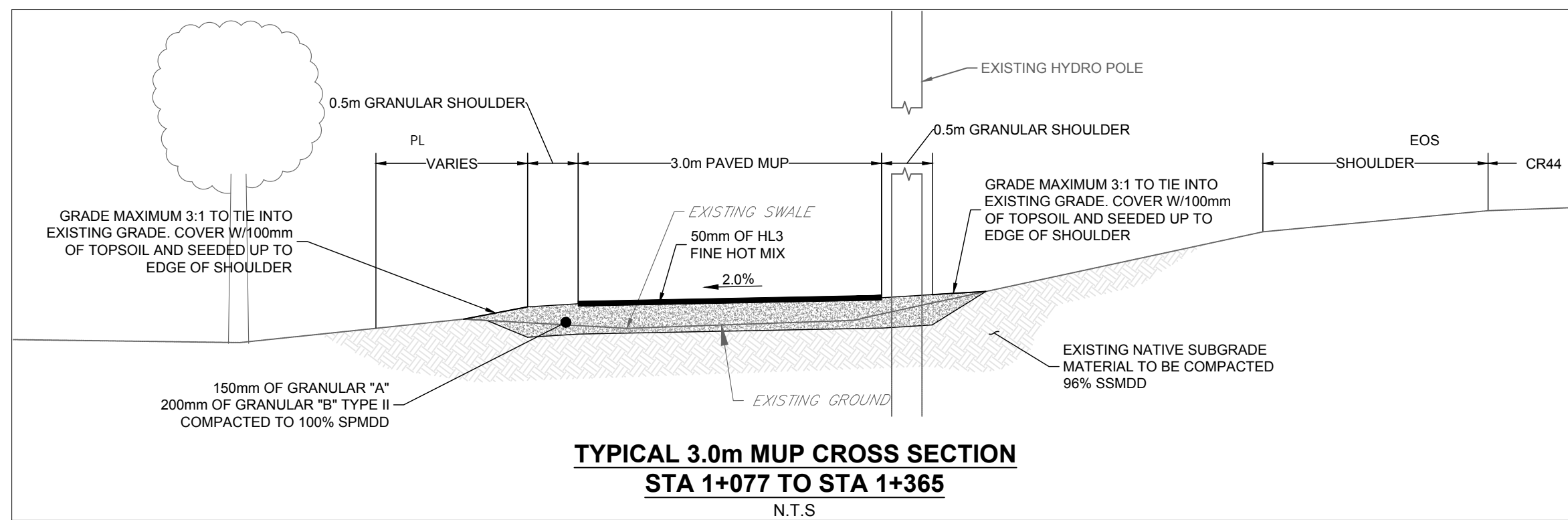
GRADING PLAN
STA. 1+100 TO STA. 1+418



SERVICING PLAN
STA. 1+100 TO STA. 1+418



TYPICAL INTERSECTION CROSSING PAINTING DETAIL
N.T.S.



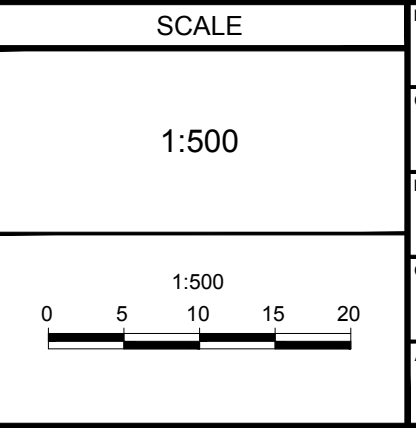
TYPICAL 3.0m MUP CROSS SECTION
STA 1+077 TO STA 1+365
N.T.S.

FOR STREETLIGHT DETAILS REFER TO:
 • 123066-SL1
 • 123066-SL2
 • 123066-SL3

REFER TO 123066-ND FOR ADDITIONAL NOTES

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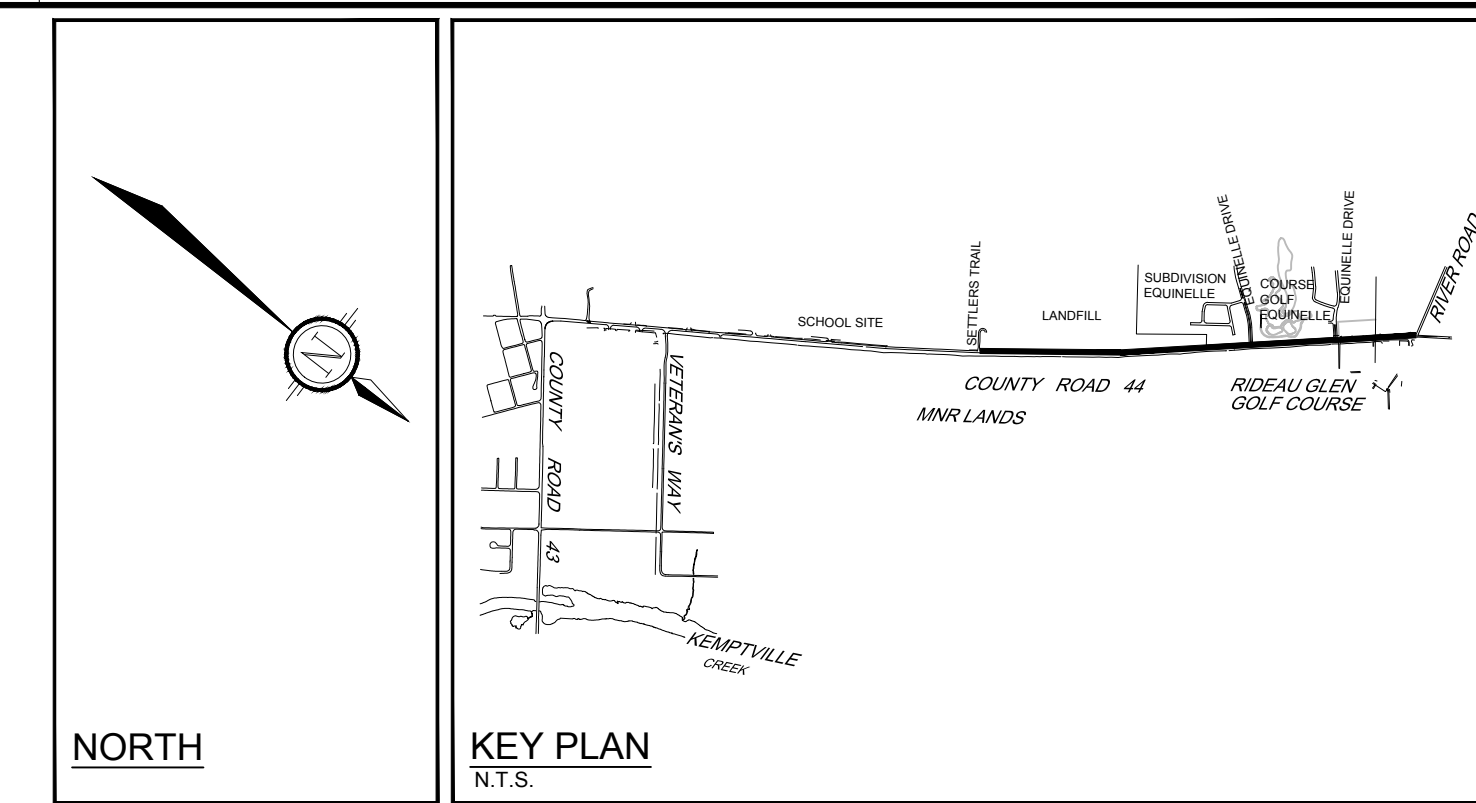
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1	PRELIMINARY DRAWINGS ISSUED TO MUNICIPALITY	AUG 23/24	CJR



DESIGN	FOR REVIEW ONLY
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CJR	
LPA	
CJR	
JLS	

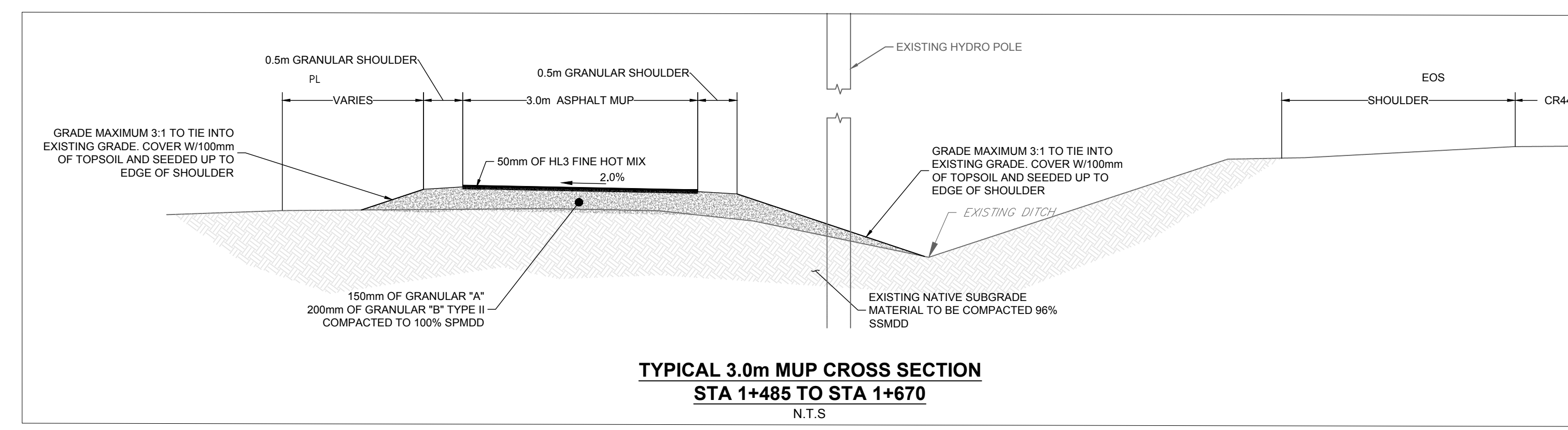
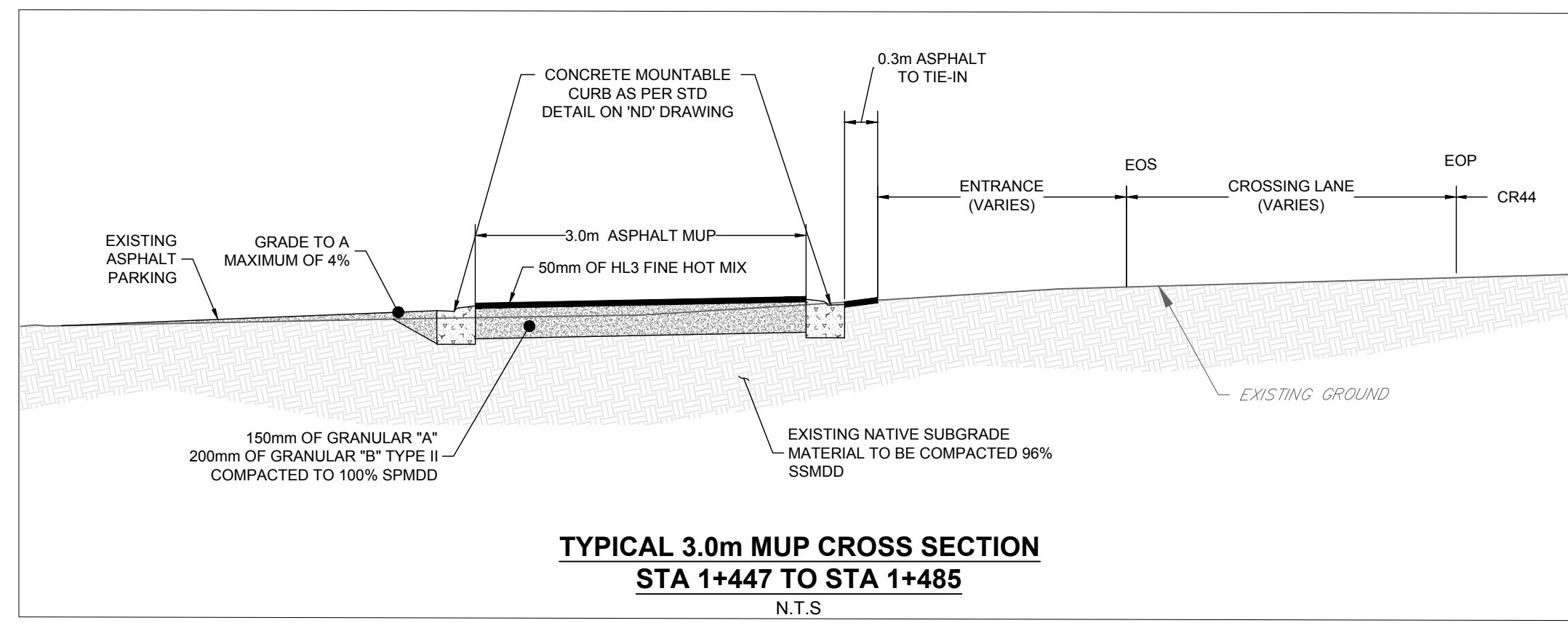
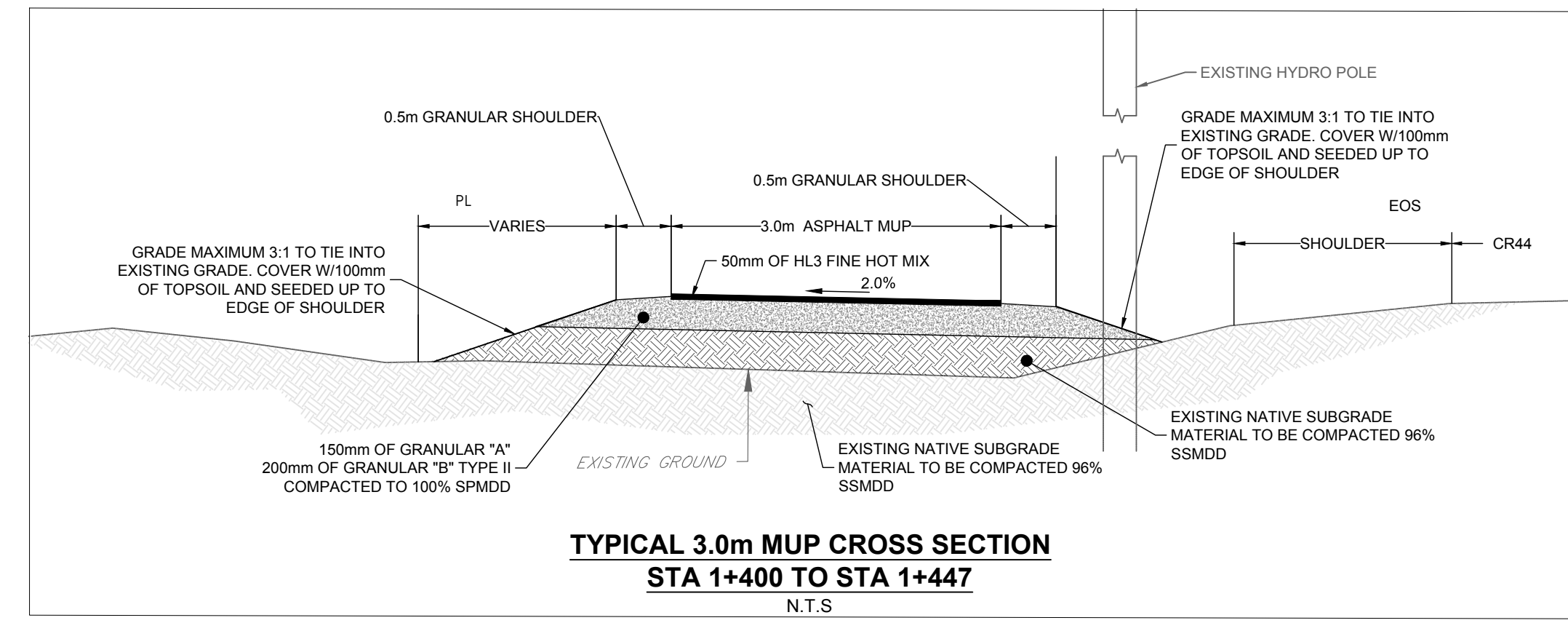
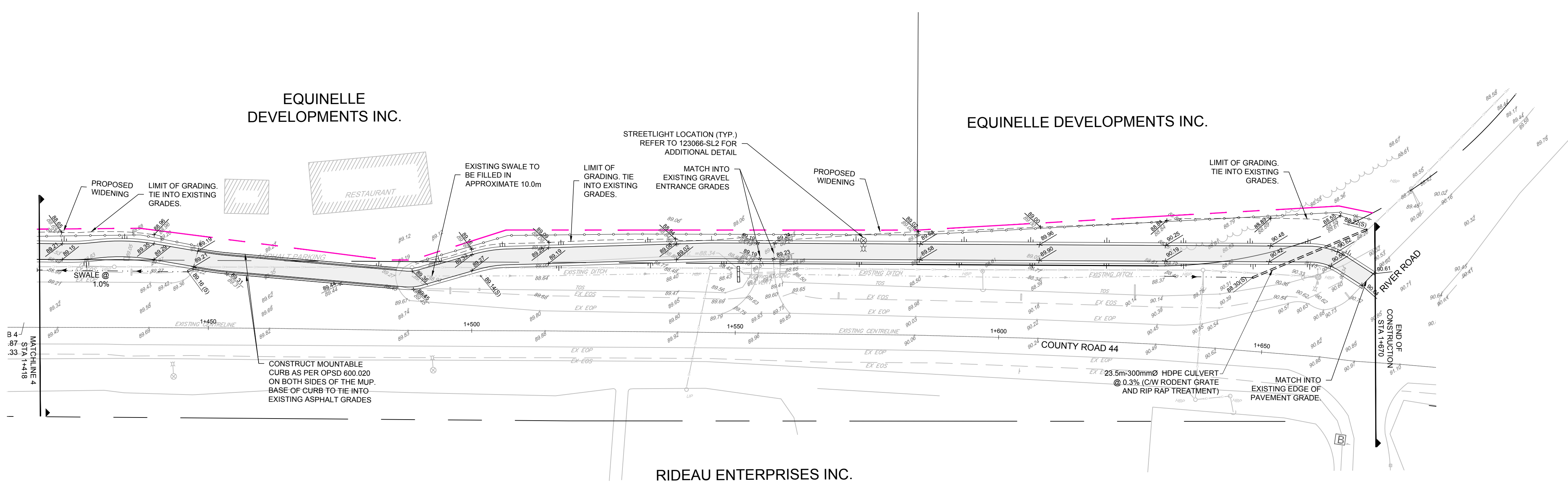
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LOCATION TOWN OF KEMPTVILLE MUNICIPALITY OF NORTH GRENVILLE	PROJECT NO. 123066
DRAWING NAME COUNTY RD 44 MULTI USE PATH STA 1+100 TO STA 1+418	REV # 2
	DRAWING NO. 123066-GR3



LEGEND

	PROPOSED ELEVATION		PROPOSED RETAINING WALL		EXISTING BUSHES AND VEGETATION
	EXISTING ELEVATION		STRAW BALE CHECK DAM OPSD 219.180		EXISTING WELL
	PROPOSED SWALE ELEVATION		PROPOSED STREETLIGHT		EXISTING WATER SAMPLING LOCATION
	PROPOSED TOP OF CURB ELEVATION		EXISTING CHAIN LINK FENCE		EXISTING STORM MANHOLE
	GRADE AND DIRECTION		EXISTING WOODEN FENCE		EXISTING SANITARY MANHOLE
	PROPOSED BARRIER CURB		EXISTING WOODEN GUARDRAIL		EXISTING CATCHBASIN
	PROPOSED SUBDRAIN / CB LEAD		EXISTING OVERHEAD WIRES		EXISTING TOP OF GRATE
	PROPOSED CULVERT		EXISTING GAS		EXISTING VALVE & VALVE BOX
	PROPOSED DITCH DIRECTION OF FLOW		EXISTING DITCH DIRECTION OF FLOW		EXISTING LIGHT STANDARD
	PROPERTY LINE		EXISTING EDGE OF SHOULDER		EXISTING UTILITY POLE CW GUY WIRES
	ADJUSTED PROPERTY LINE		EXISTING EDGE OF PAVEMENT		EXISTING HYDRANT
	PROPOSED LIMIT OF GRADING		EXISTING WATERMAIN		EXISTING GUY WIRE
	3.0m ASPHALT MULTI-USE PATHWAY (w/ 0.5m SHOULDER)		EXISTING SANITARY MAIN		
	3.0m ASPHALT MULTI-USE PATHWAY (w/ MOUNTABLE CURB)		EXISTING EDGE OF PAVEMENT		
	CB 1		EXISTING CENTRELINE		
	PROPOSED CATCHBASIN / LAWN CATCHBASIN		EXISTING EDGE OF PAVEMENT		
	PROPOSED DITCH		EXISTING GRAVEL PATH		
	RIP RAP TREATMENT FOR END CULVERT AND TRANSITIONS				

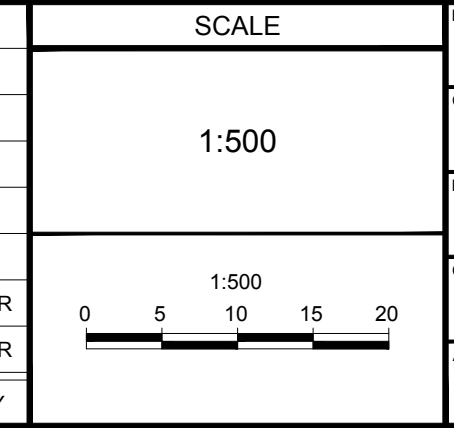


FOR STREETLIGHT DETAILS REFER TO:
 • 123066-SL1
 • 123066-SL2
 • 123066-SL3

REFER TO 123066-ND FOR ADDITIONAL NOTES

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DESIGN	FOR REVIEW ONLY
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CJR	
LPA	
CJR	
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LOCATION
 TOWN OF KEMPTVILLE
 MUNICIPALITY OF NORTH GRENVILLE

DRAWING NAME
 COUNTY RD 44 MULTI USE PATH
 STA 1+418 TO STA 1+670

PROJECT NO: 123066
 REV # 2
 DRAWING NO: 123066-GR4

C:\Users\123066\OneDrive\Desktop\123066-GR4.dwg, 08/24/2024, 1:29pm, chesler

NOTES: GENERAL

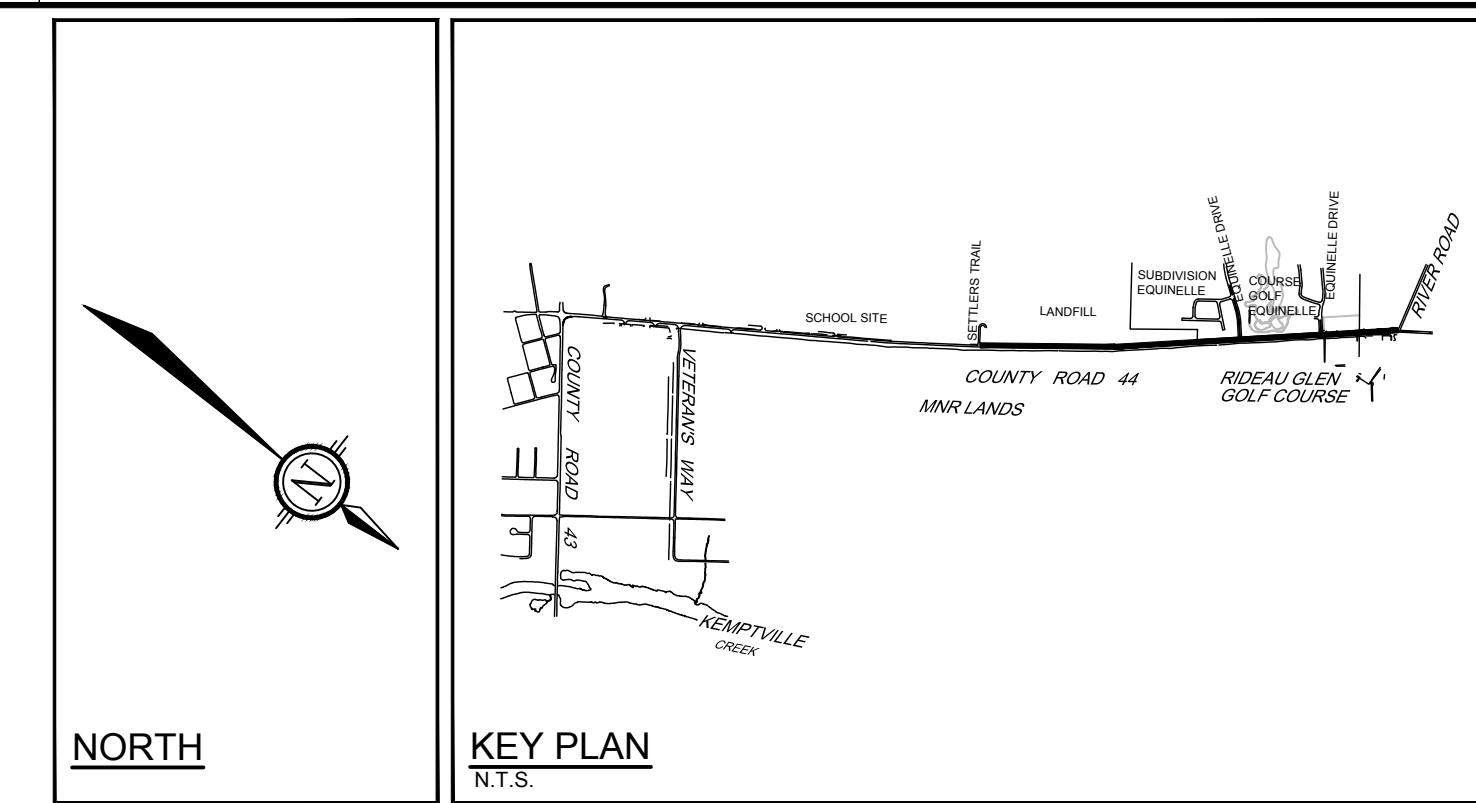
- ALL WORK TO BE COMPLETED IN ACCORDANCE WITH TOWN OF KEMPTVILLE (MUNICIPALITY OF NORTH GRENVILLE) AND OPSD DRAWINGS AND SPECIFICATIONS, UNLESS OTHERWISE NOTED.
- CONTRACTOR IS TO PROCURE COPIES OF THE STANDARDS AND KEEP ON SITE.
- DIMENSIONS AND LAYOUT INFORMATION SHALL BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE ORIGINAL TOPOGRAPHY AND GROUND ELEVATIONS, SERVICING AND SURVEY INFORMATION SHOWN ON THIS PLAN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF ALL INFORMATION OBTAINED FROM THIS PLAN.
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADERS AND CONTRACTORS.
- BEFORE COMMENCING CONSTRUCTION, PROVIDE PROOF OF COMPREHENSIVE ALL RISK AND OPERATIONAL LIABILITY INSURANCE INCLUDING BLASTING INSURANCE POLICY TO NAME THE OWNER, ENGINEER, MUNICIPALITY AND THE COUNTY AS CO-INSURED. AMOUNT OF INSURANCE TO BE SPECIFIED BY OWNER'S AGENT.
- PRIOR TO ANY ROCK EXCAVATION, CONTRACTOR IS REQUIRED TO COMPLETE A PRE-CONSTRUCTION SURVEY.
- DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME ALL RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THESE DRAWINGS.
- OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPALITY OF NORTH GRENVILLE BEFORE COMMENCING CONSTRUCTION.
- RESTORE ALL SURFACE FEATURES TO EXISTING CONDITIONS OR BETTER AND TO THE SATISFACTION OF THE MUNICIPALITY OF NORTH GRENVILLE AUTHORITIES.
 - THICKNESS OF GRANULAR MATERIAL AND ASPHALT LAYERS SHALL BE IN ACCORDANCE WITH EXISTING PAVEMENT STRUCTURE. TIE IN AT 3:1 SLOPES.
 - BOULEVARDS SHALL BE REINSTATE WITH 100mm OF TOPSOIL AND SEED AND MULCH.
- ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
- REFER TO GEOTECHNICAL REPORT #100011070, PROPOSED COUNTY ROAD 44 MULTI-USE PATHWAY, PREPARED BY GEMTEC, DATED SEPTEMBER 3, 2024 FOR SUBSURFACE CONDITIONS AND CONSTRUCTION RECOMMENDATIONS. SIDE SLOPES FOR ALL EXCAVATIONS ARE TO BE IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT (ONTARIO REGULATION 213/91).
- ALL EXCESS MATERIAL IS TO BE DISPOSED OF OFF-SITE.

NOTES: EROSION AND SEDIMENT CONTROL

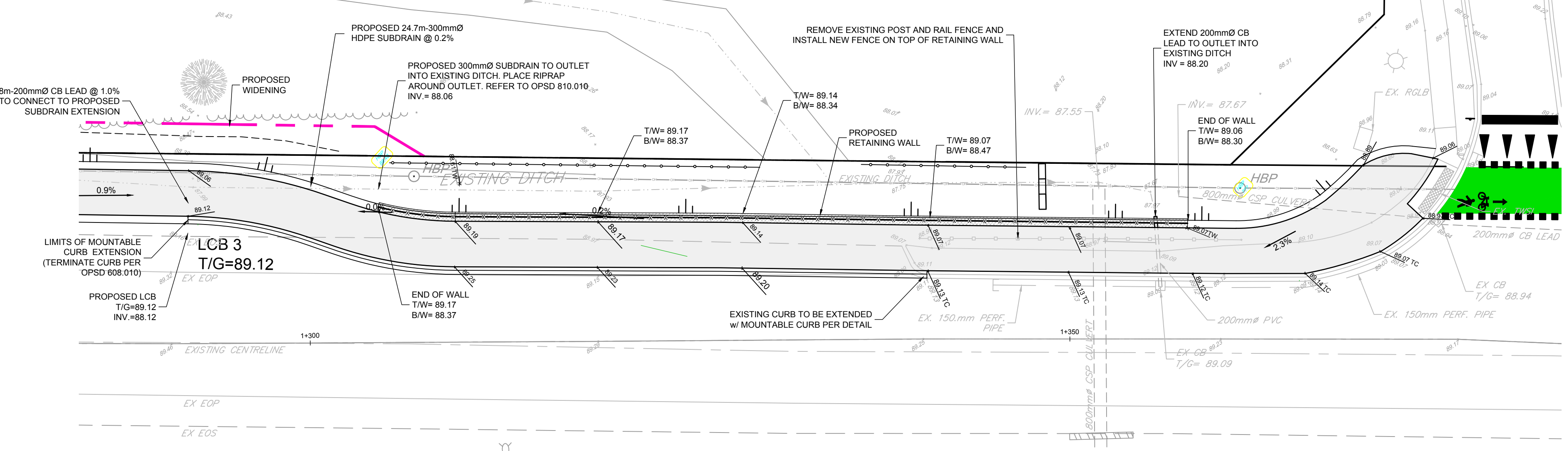
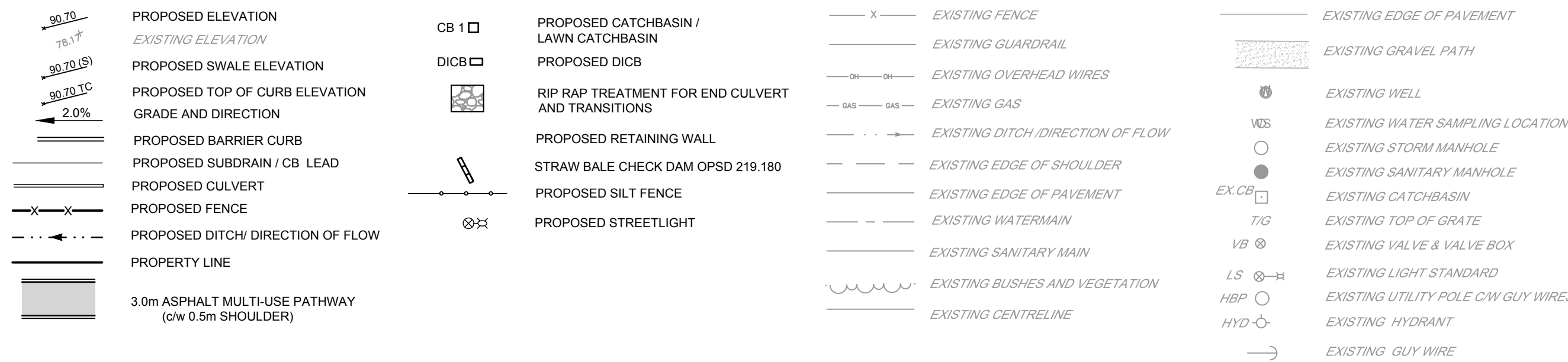
- ALL EROSION AND SEDIMENT CONTROLS ARE TO BE INSTALLED TO THE SATISFACTION OF THE MUNICIPALITY, APPROPRIATE TO THE SITE CONDITIONS, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.) AND DURING ALL PHASES OF SITE PREPARATION AND CONSTRUCTION IN ACCORDANCE WITH THE CURRENT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL, SUCH AS BUT NOT LIMITED TO INSTALLING FILTER CLOTHS ACROSS MANHOLE/CATCHBASIN LIDS TO PREVENT SEDIMENTS FROM ENTERING STRUCTURES AND INSTALL AND MAINTAIN A LIGHT DUTY SILT FENCE BARRIER AS REQUIRED.
- TO PREVENT SURFACE EROSION FROM ENTERING THE STORM SYSTEM DURING CONSTRUCTION, FILTER CLOTH WILL BE PLACED UNDER ALL PROPOSED CATCHBASINS AND MANHOLES. THE FILTER CLOTH WILL REMAIN IN PLACE UNTIL VEGETATION HAS BEEN ESTABLISHED AND CONSTRUCTION COMPLETE.
- ANY ON-SITE STOCKPILES SHALL BE LOCATED IN AREAS TO BE DESIGNATED BY THE ENGINEER AND WELL AWAY FROM DRAINAGE SWALES, OUTLET DITCHES AND REARWARD CATCHBASINS.
- CONTRACTOR IS TO INSTALL LIGHT DUTY SILT FENCE AS PER OPSD 219.10 AS SHOWN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SILT FENCE TO BE INSTALLED EITHER ALONG THE PROPERTY LINE OR ALONG BOUNDARIES OF VEGETATION TO REMAIN. THE SILT FENCE IS TO BE MAINTAINED TO THE SATISFACTION OF THE ENGINEER FOR THE DURATION OF THE CONTRACT, THROUGHOUT CONSTRUCTION. ADDITIONAL SILT FENCE MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER.
- CONTRACTOR IS TO INSTALL STRAW BALES AS PER OPSD 219.100 AS INDICATED AND DIRECTED BY THE ENGINEER PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. STRAW BALES ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION. CONTRACTOR IS TO ENSURE THAT DRAINAGE CONTINUES TO FLOW.
- ALL STREETS ARE TO BE SWEEP ONCE ROADWAYS ARE PAVED AND TO CONTINUE FOR THE DURATION OF HOUSING CONSTRUCTION ACTIVITY. STREETS ARE TO BE SWEEP REGULARLY AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

GRADING NOTES:

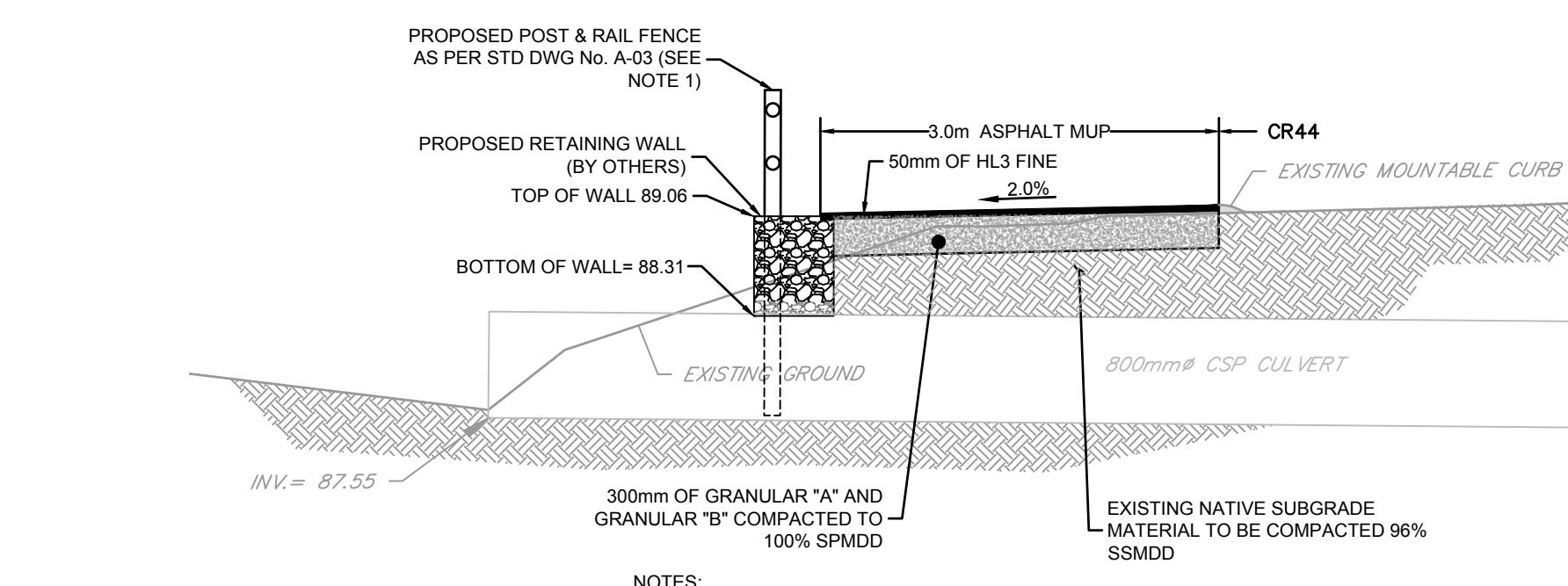
- ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE PROPOSED PAVED AREAS.
- EXPOSED SUBGRADES IN PROPOSED PAVED AREAS SHOULD BE PROOF ROLLED WITH A LARGE STEEL DRUM ROLLER AND INSPECTED BY THE GEOTECHNICAL CONSULTANT.
- ANY SOFT AREAS EVIDENT FROM THE PROOF ROLLING SHOULD BE SUBEXCAVATED AND REPLACED WITH SUITABLE MATERIAL THAT IS FROST COMPATIBLE WITH THE EXISTING SOILS.
- THE GRANULAR BASE SHOULD BE COMPACTED TO AT LEAST 100% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE. ANY ADDITIONAL GRANULAR FILL USED BELOW THE PROPOSED PAVEMENT SHOULD BE COMPACTED TO AT LEAST 100% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE.
- GRADE AND/OR FILL WHERE REQUIRED TO PROVIDE POSITIVE DRAINAGE.
- MINIMUM OF 2% GRADE FOR ALL GRASS AREAS UNLESS OTHERWISE NOTED.
- ALL CURBS SHALL BE BARRIER CURB (150mm) UNLESS OTHERWISE NOTED AND CONSTRUCTED AS PER MUNICIPALITY OF NORTH GRENVILLE STANDARDS.
- CONTRACTOR REQUIRED TO PROVIDE ELEVATION AS-BUILT GRADES AT ALL DESIGN GRADE ELEVATIONS.
- CULVERTS TO BE 300mmØ MAX WITH MINIMUM 300mm COVER. INVERTS SHOWN ARE ESTIMATED AND ARE TO BE CONFIRMED PRIOR TO CONSTRUCTION.
- MUP GRANULARS ARE TO BE TAPERED UP OR DOWN AT 5H:1V (OR FLATTER) TO MATCH GRANULAR THICKNESS OF EXISTING TRAIL AND SIDEWALK.



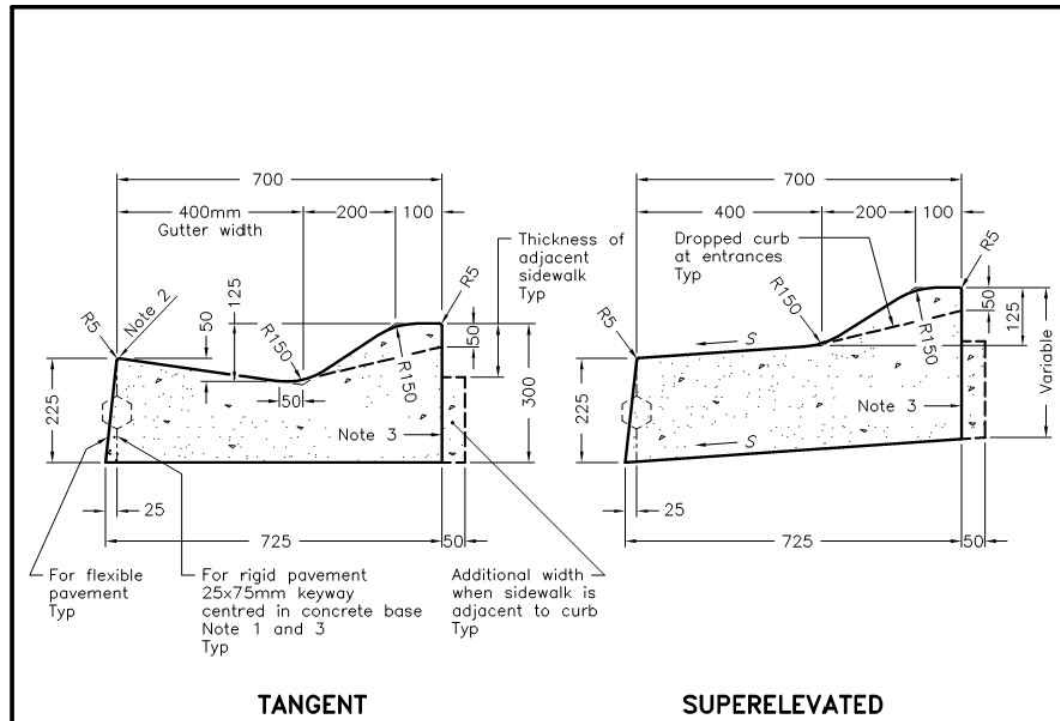
LEGEND



GRADING DETAIL
STA 1+310 TO STA 1+376
SCALE 1:200



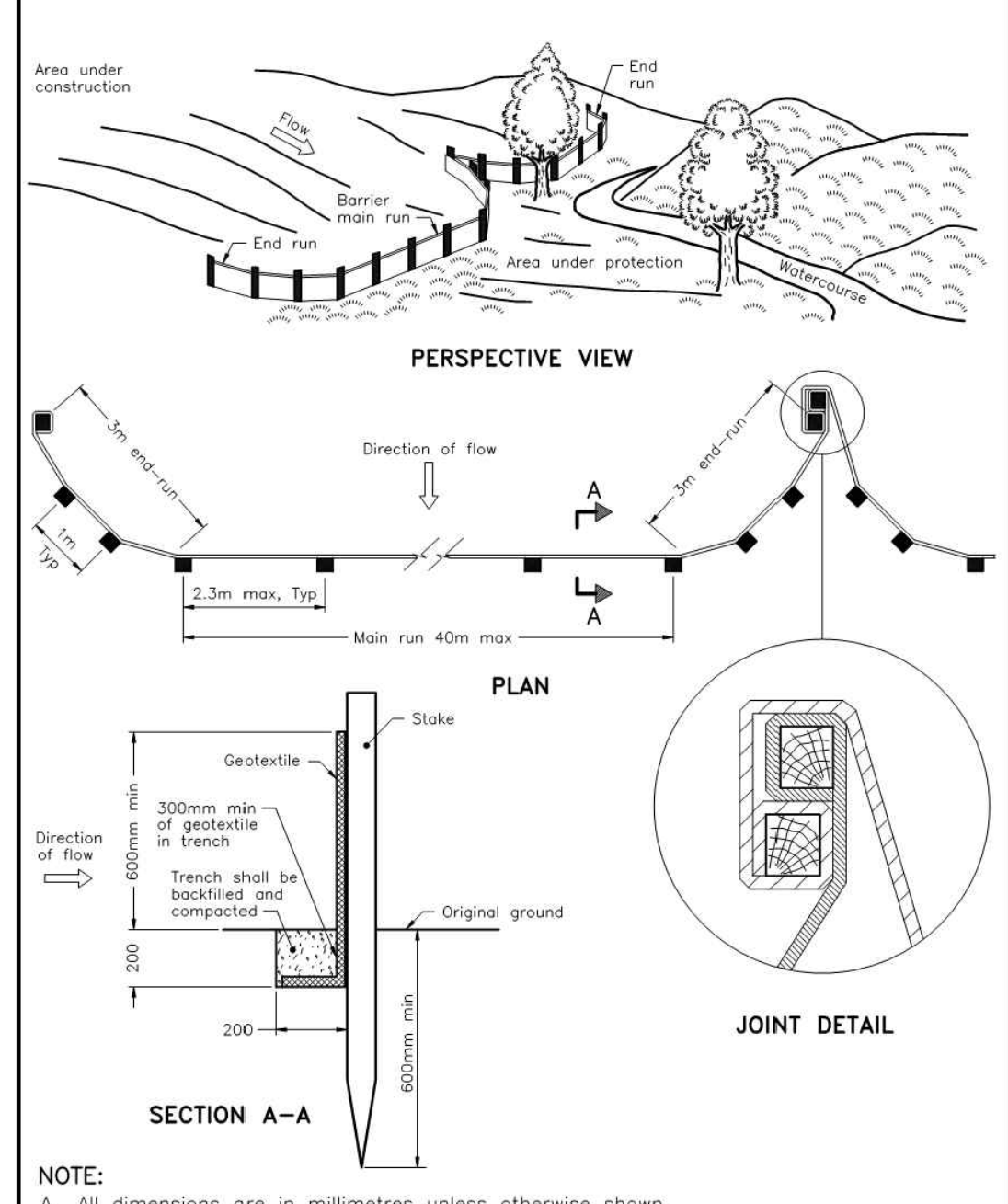
SECTION A-A - GRADING DETAIL
STA 1+352
SCALE 1:50



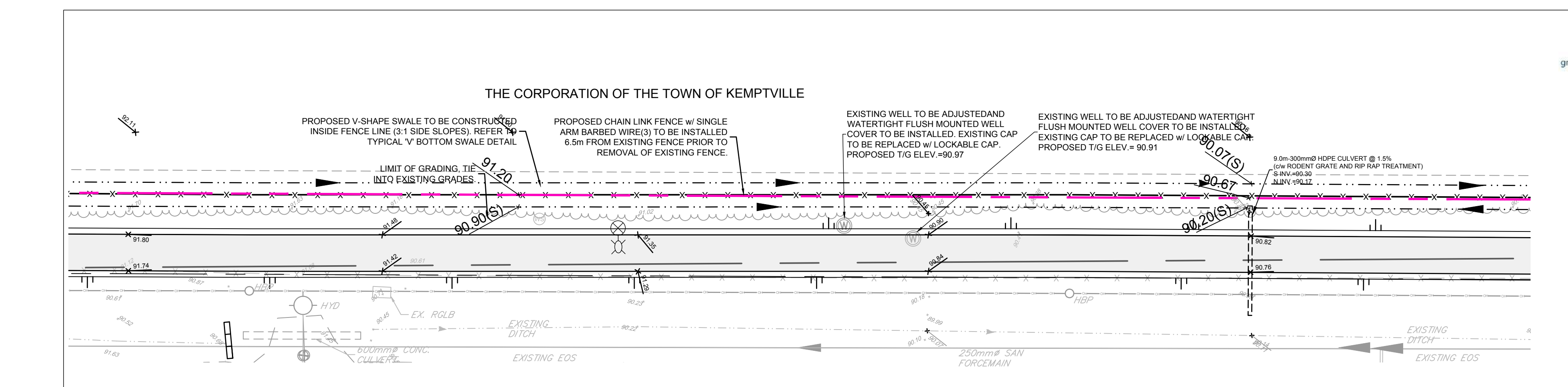
LEGEND:
S - Rate of pavement superlevation in percent, %.

NOTES:
1 When curb and gutter is adjacent to concrete pavement or base, this drawing shall be used in conjunction with OPSD 552.010 and 552.020.
2 Flexible and composite pavement shall be placed 5mm above the adjacent edge of gutter.
3 For slipforming procedure a 5% batter is acceptable.
A Treatment at entrances shall be according to OPSD 351.010.
B Outlet treatment shall be according to the OPSD 610 Series.
C The transition from one curb type to another shall be a minimum length of 3.0m, except in conjunction with guide rail where it shall be according to the OPSD 900 Series.
D All dimensions are in millimetres unless otherwise shown.

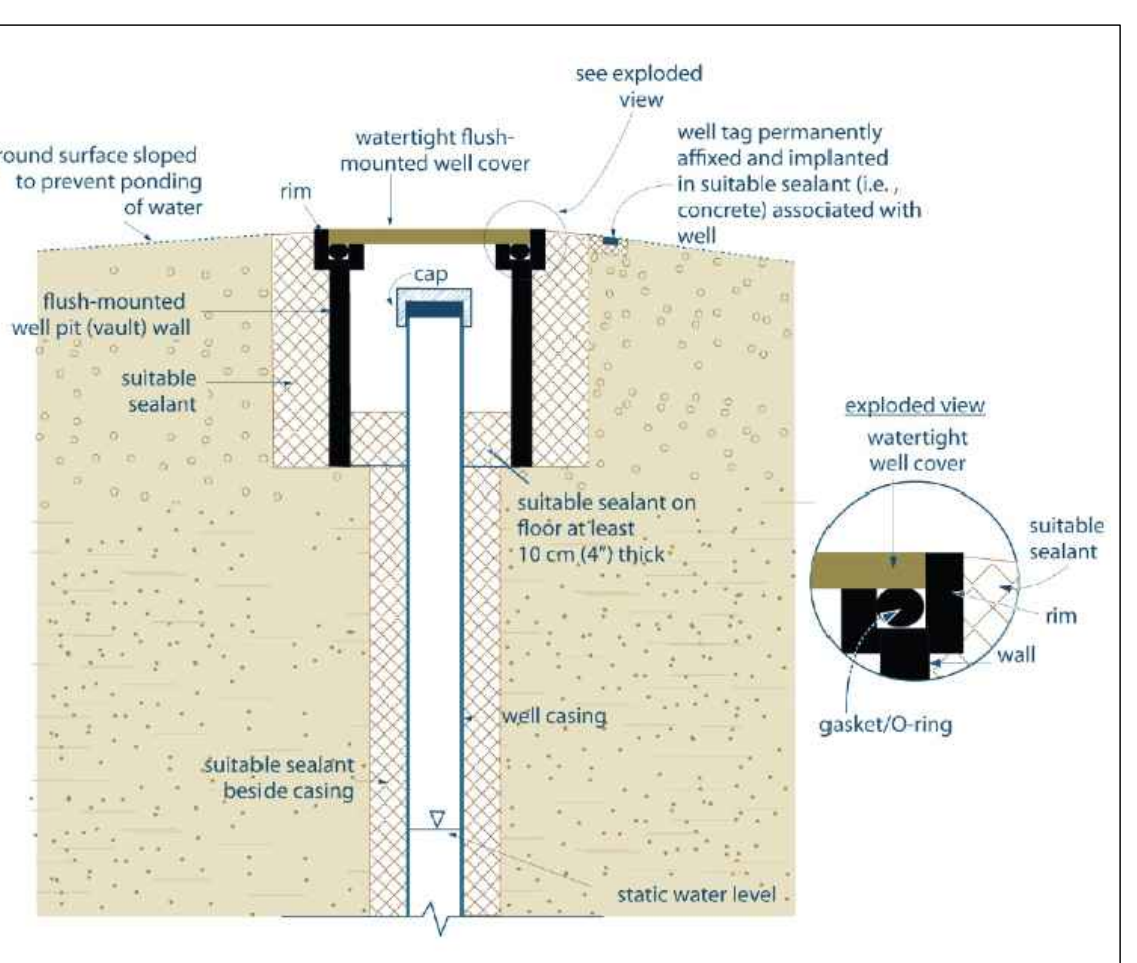
ONTARIO PROVINCIAL STANDARD DRAWING Nov 2012 Rev 2
CONCRETE SEMI-MOUNTABLE CURB WITH WIDE GUTTER
OPSD 600.020



NOTE: A All dimensions are in millimetres unless otherwise shown.
ONTARIO PROVINCIAL STANDARD DRAWING Nov 2021 Rev 1
LIGHT-DUTY SILT FENCE BARRIER
OPSD 219.110



LANDFILL SWALE AND WELLS DETAIL
SCALE 1:500



FLUSH MOUNTED WELL COVER DETAIL
SCALE N.T.S.

NOTE:
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SCALE		REVISION
AS NOTED		
2	ISSUED FOR TENDER	JAN 31/25 CJR
1	PRELIMINARY DRAWINGS ISSUED TO MUNICIPALITY	AUG 23/24 CJR
No.	REVISION	DATE BY

FOR REVIEW ONLY	
CJR	CHECKED
CJR	DRAWN
LPA	CHECKED
CJR	APPROVED
JLS	APPROVED

FOR GRADING PLAN DETAILS REFER TO:
123066-GR1, 123066-GR2, 123066-GR3 & 123066-GR4

NOVATECH
Engineers, Planners & Landscape Architects
Suite 200, 240 Michael Cowpland Drive
Ottawa, Ontario, Canada K2M 1P6
Telephone: (613) 254-9643
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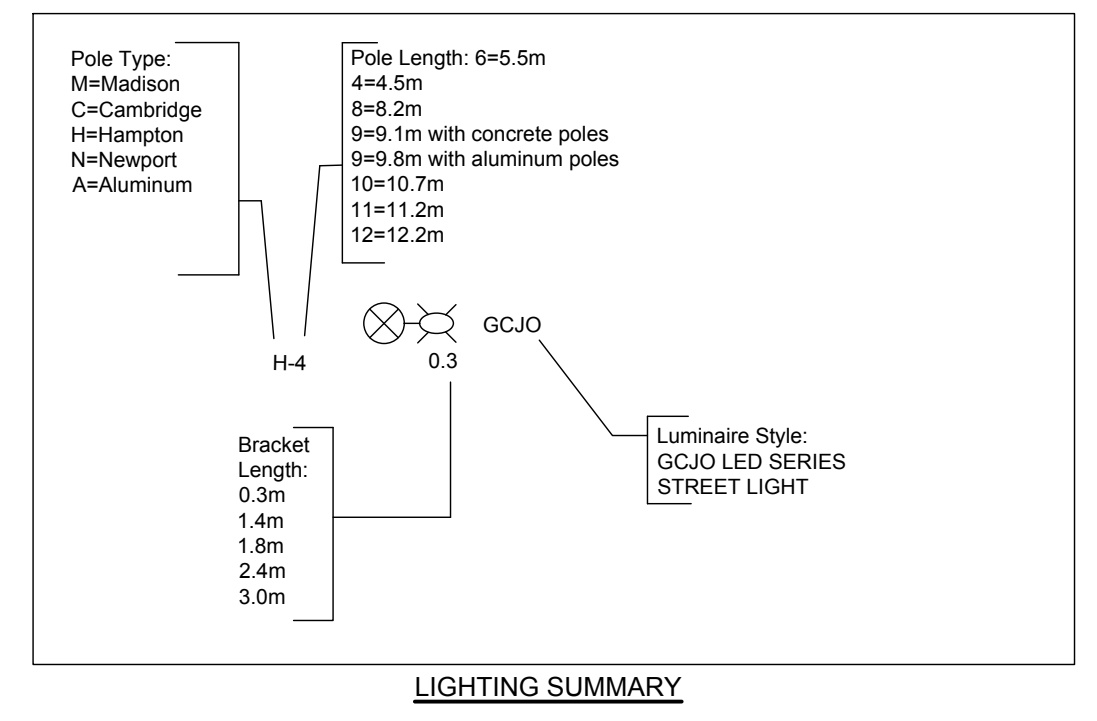
LOCATION TOWN OF KEMPTVILLE MUNICIPALITY OF NORTH GRENVILLE		PROJECT NO.:	123066
DRAWING NAME NOTES AND DETAILS		REV	REV # 2
		DRAWING NO.	123066-ND

STREETLIGHTING NOTES:

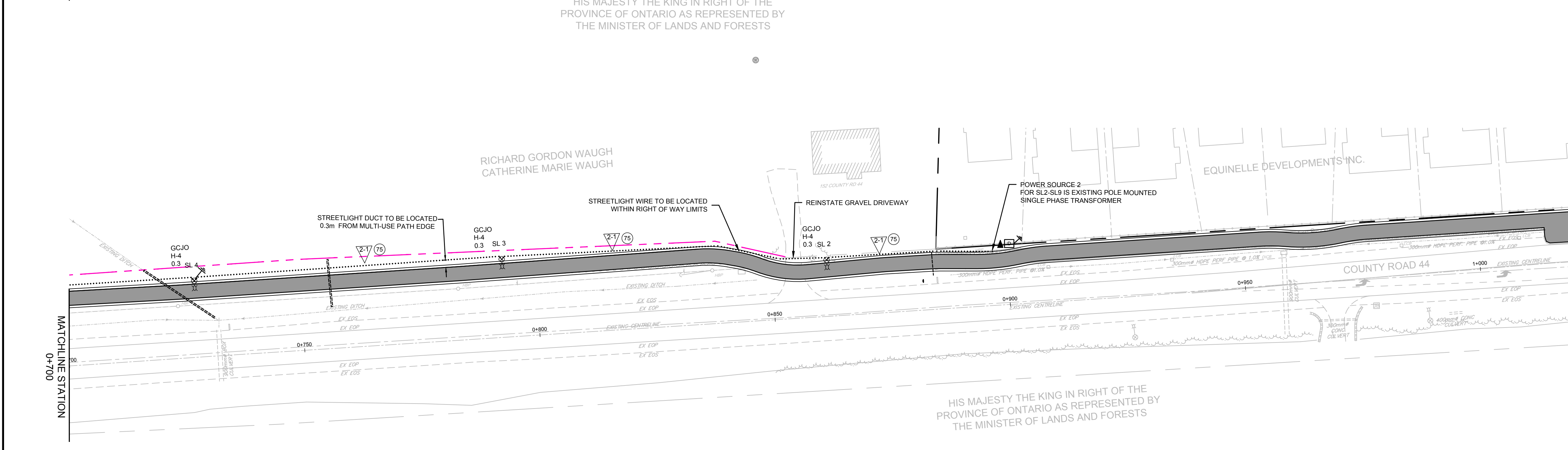
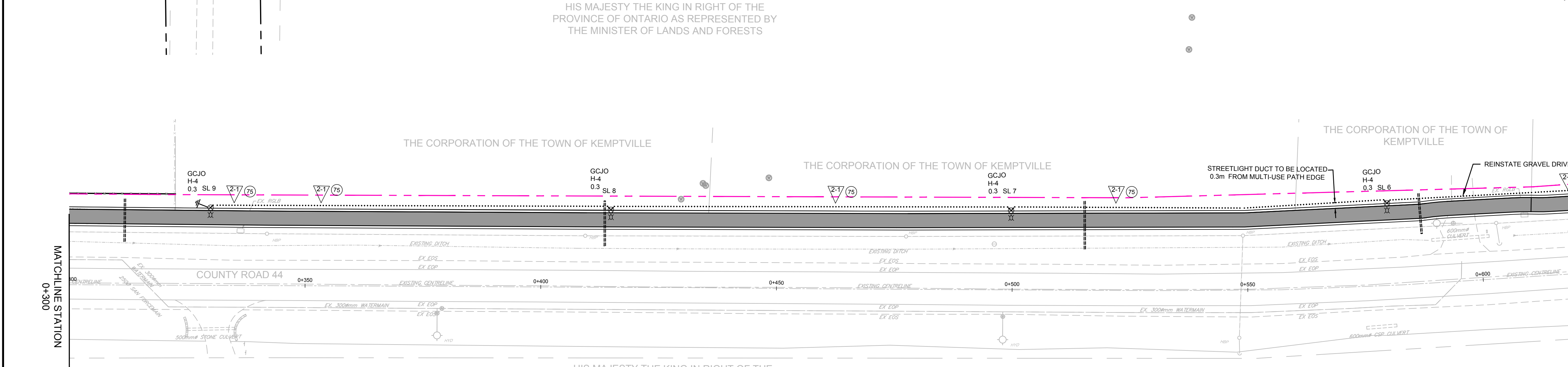
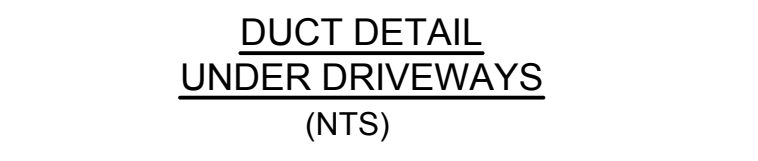
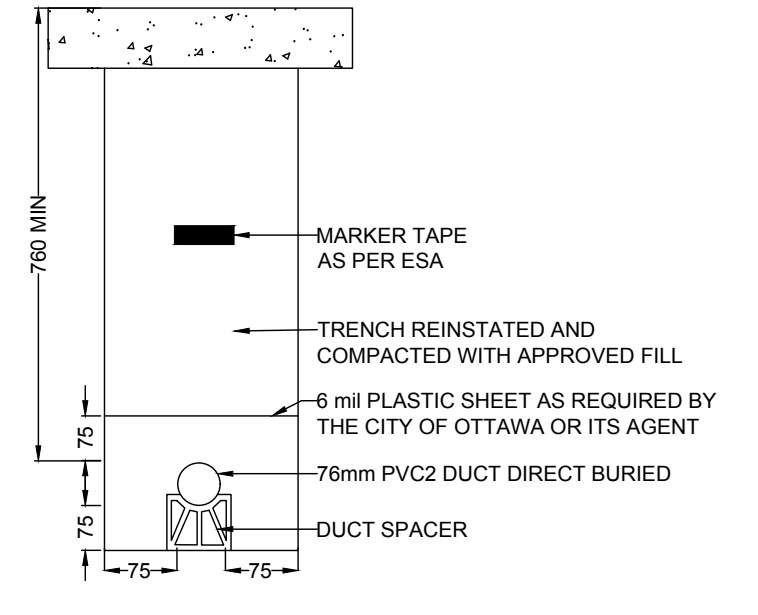
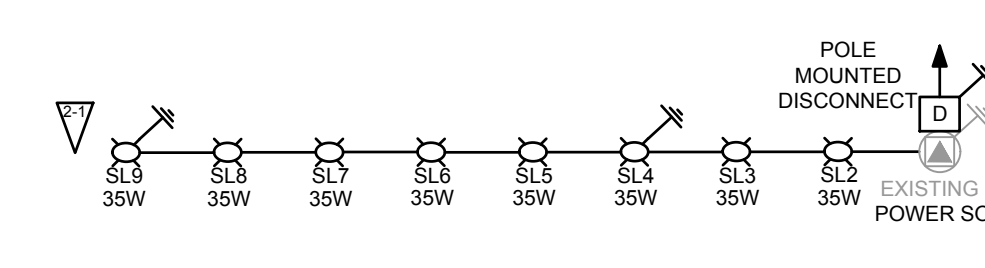
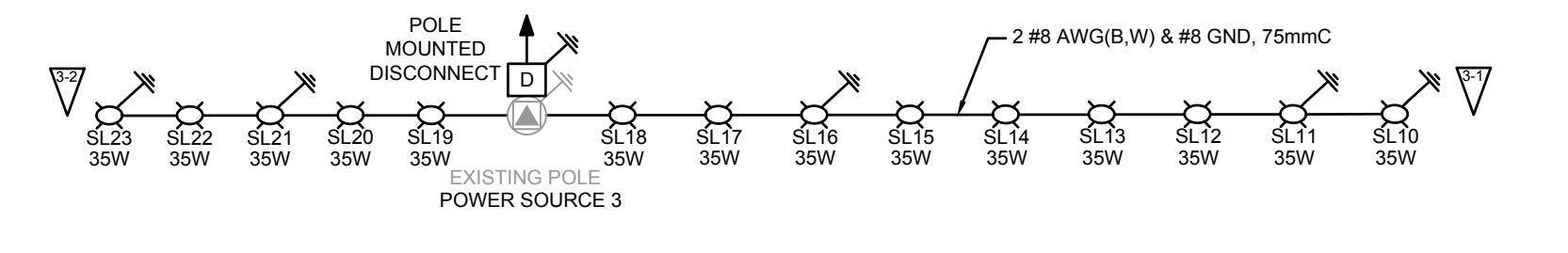
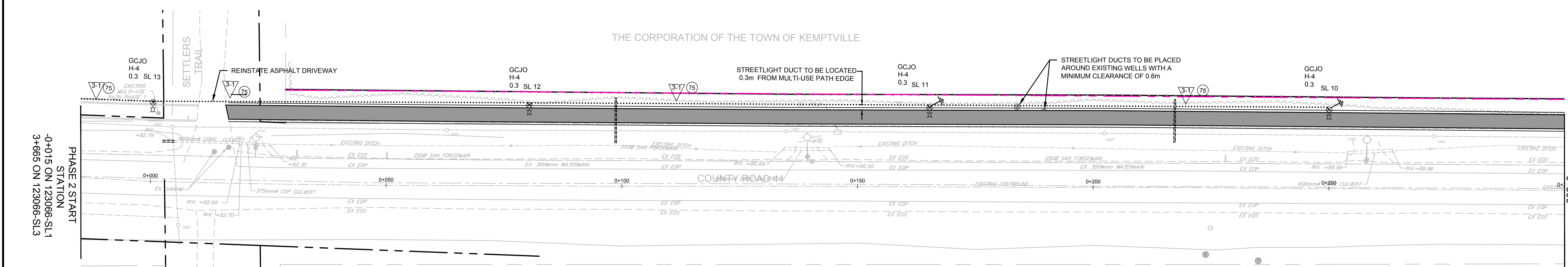
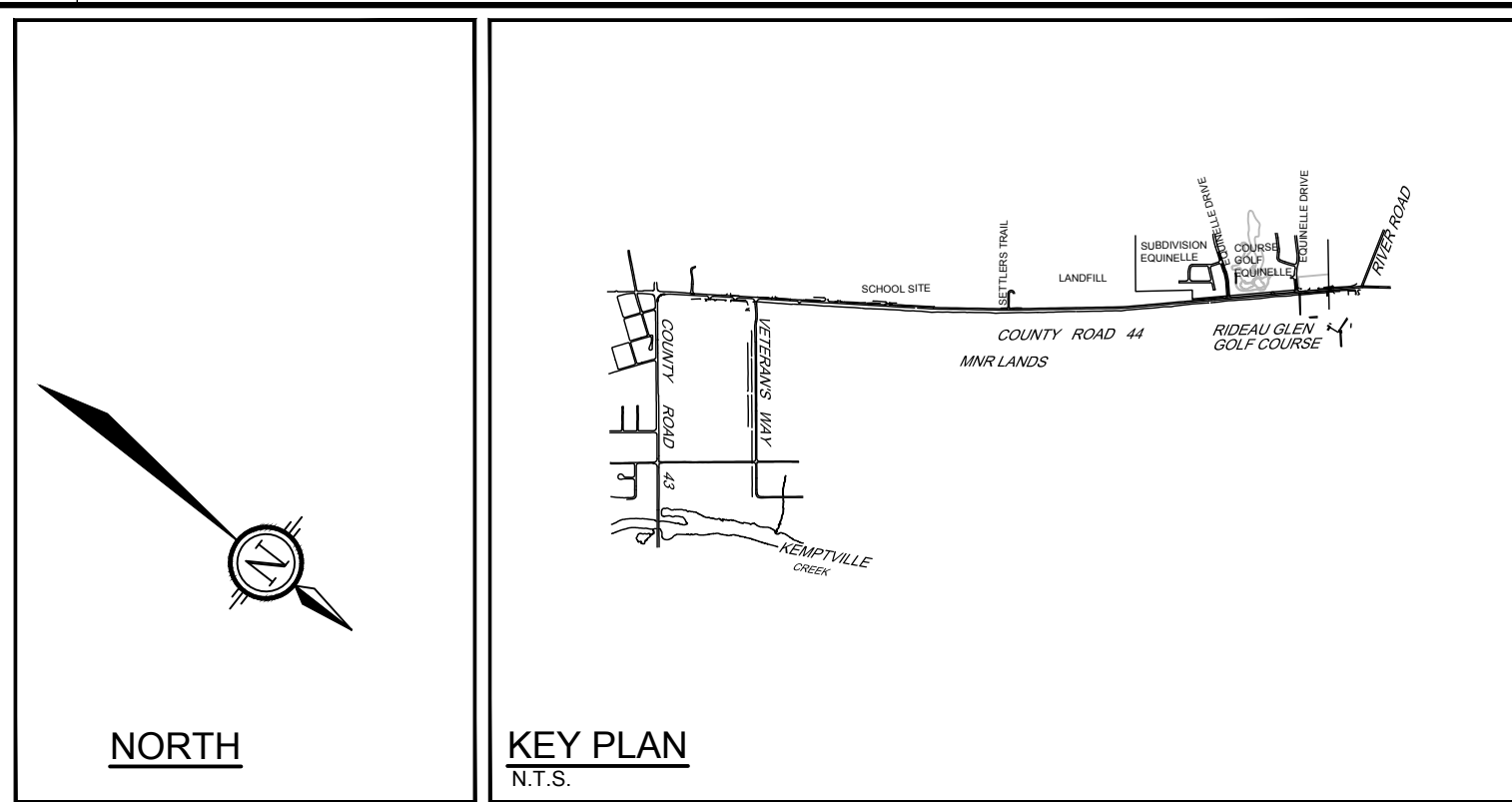
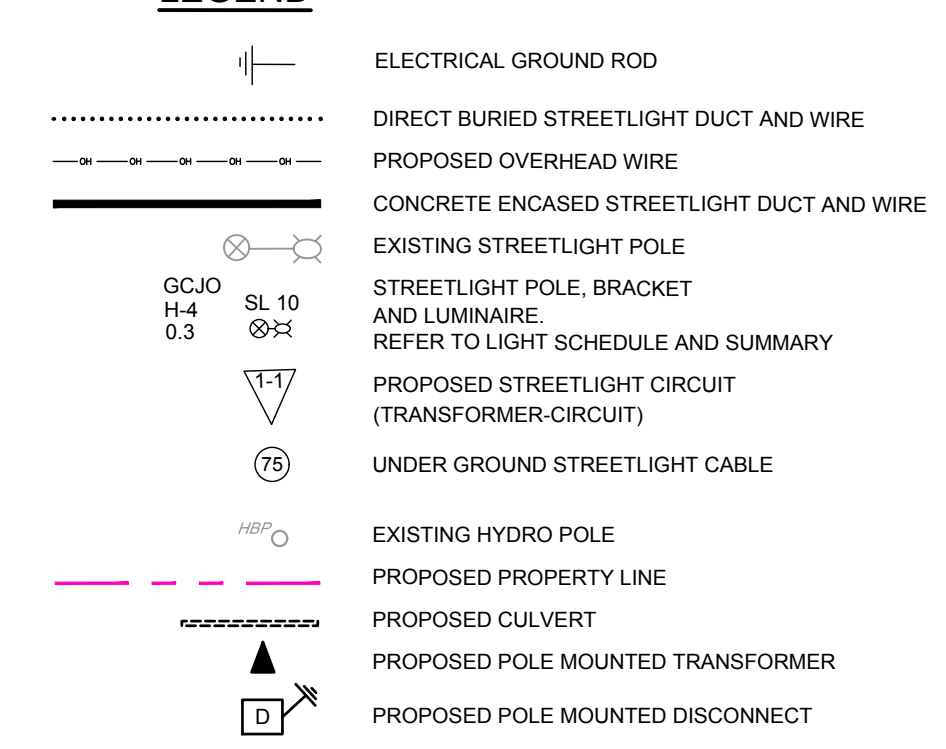
- HYDRO ONE WILL PROVIDE CONNECTION OF SECONDARY FEEDER TO STREETLIGHT DISCONNECT.
- DISCONNECT SWITCH AND ITS INSTALLATION SHALL STRICTLY CONFORM TO CITY OF OTTAWA DESIGN STANDARDS.
- ALL WIRING TO BE INSTALLED IN CONTINUOUS 3" (76mm) PVC STREETLIGHT DUCT.
- EACH CIRCUIT PROTECTED BY MAIN FUSE IN DISCONNECT SWITCH AND EACH LUMINAIRE ADDITIONALLY PROTECTED BY INDIVIDUAL FUSE IN POLE HANDLE.
- EACH SYSTEM TO BE EQUIPPED WITH APPROVED GROUNDING ROD AT DISCONNECT SWITCH, PROPER BONDING CONDUCTOR, AND APPROVED GROUNDING ROD AT EVERY FIFTH POLE AND LAST POLE IN CIRCUIT.
- WIRING FROM POLE HANDHOLE/IN-LINE FUSING TO LUMINAIRE TO BE MIN. 2#10+GND.
- LUMINAIRES TO BE LEVELLED IN TWO DIRECTIONS USING BUBBLE LEVELING PAD ON THE LUMINAIRE.
- INSTALLATION OF WIRING IN TRENCHES TO CONFORM TO APPROVED CITY OF OTTAWA DETAILS.
- ALL STREETLIGHTS TO BE COMPLIANT WITH THE CITY OF OTTAWA GUIDELINES FOR THE CONTROL OF LIGHT POLLUTION TO ENSURE THE CONSERVATION OF THE NIGHT SKY ENVIRONMENT.
- STREETLIGHT DUCTS TO BE LOCATED 0.3m FROM THE MULTI-USE PATH EDGE (WITHIN RIGHT OF WAY). STREET LIGHT NETWORK SHOWN SCHEMATICALLY ON DRAWINGS.
- STREETLIGHTS TO BE LOCATED 0.6m FROM THE MULTI-USE PATH EDGE.

STREET LIGHT SCHEDULE

TYPE	VOLTAGE	LAMP	DESCRIPTION
GCJO H4 0.3	120V	35W LED	PROPOSED LEOTEK GREENCOBRA J. LED STREET LIGHT ON A 0.3m BRACKET AND 4.5m HAMPTON POLE, REFER TO THE FOLLOWING CATALOGUE NUMBERS: • GCJO-15H-MV-WW-2R-GY-700-PCRT-CR (LUMINAIRE) • 0.3m (BRACKET) • HA-200-B-1-PG-X (POLE)

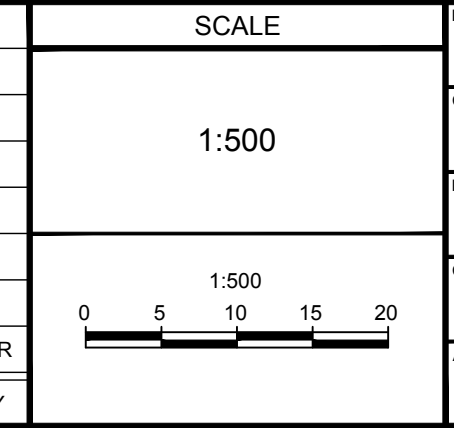


LEGEND



NOTE:
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NO.	REVISION	DATE	BY
1.	ISSUED FOR TENDER	JAN 31/25	CJR



DESIGN	MWB
CHECKED	MWB
DRAWN	LP
CHECKED	CJR
APPROVED	



LOCATION MUNICIPALITY OF NORTH GREENVILLE COUNTY ROAD 44	PROJECT NO. 123066
DRAWING NAME STREETLIGHT LOCATION PLAN STA -0+015 TO STA 1+150	REV # 1 123066-SL-1

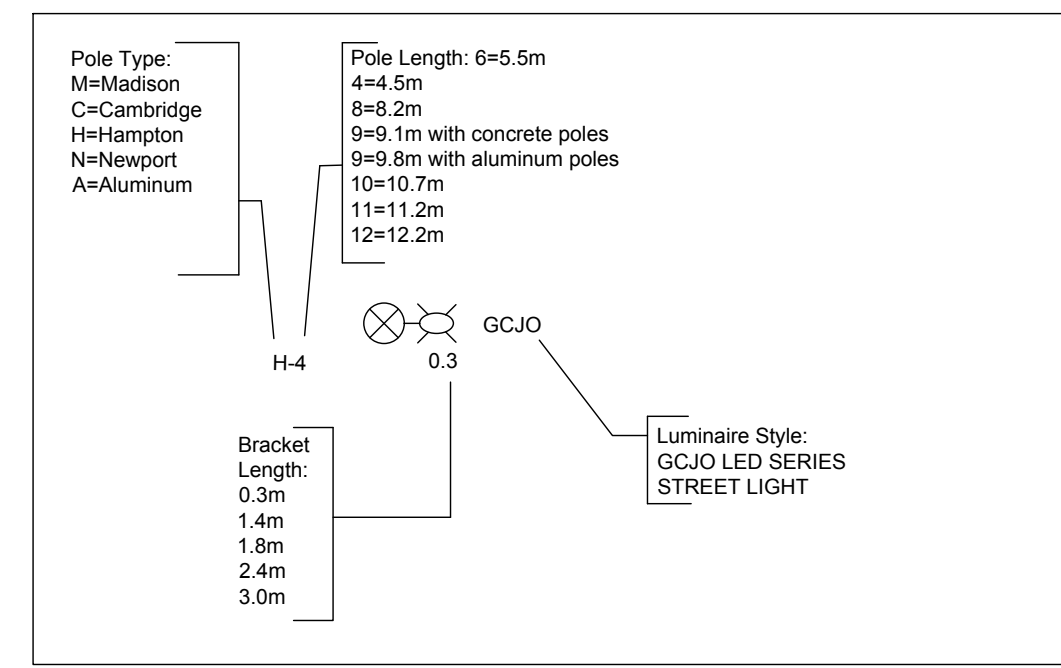
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STREETLIGHTING NOTES:

- HYDRO ONE WILL PROVIDE CONNECTION OF SECONDARY FEEDER TO STREETLIGHT DISCONNECT.
- DISCONNECT SWITCH AND ITS INSTALLATION SHALL STRICTLY CONFORM TO CITY OF OTTAWA DESIGN STANDARDS.
- ALL WIRING TO BE INSTALLED IN CONTINUOUS 3" (75mm) PVC STREETLIGHT DUCT.
- EACH CIRCUIT PROTECTED BY MAIN FUSE IN DISCONNECT SWITCH AND EACH LUMINAIRE ADDITIONALLY PROTECTED BY INDIVIDUAL FUSE IN POLE HANDLE.
- EACH SYSTEM TO BE EQUIPPED WITH APPROVED GROUNDING ROD AT DISCONNECT SWITCH, PROPER BONDING CONDUCTOR, AND APPROVED GROUNDING ROD AT EVERY FIFTH POLE AND LAST POLE IN CIRCUIT.
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- STREETLIGHTS TO BE LOCATED 0.6m FROM THE MULTI-USE PATH EDGE.

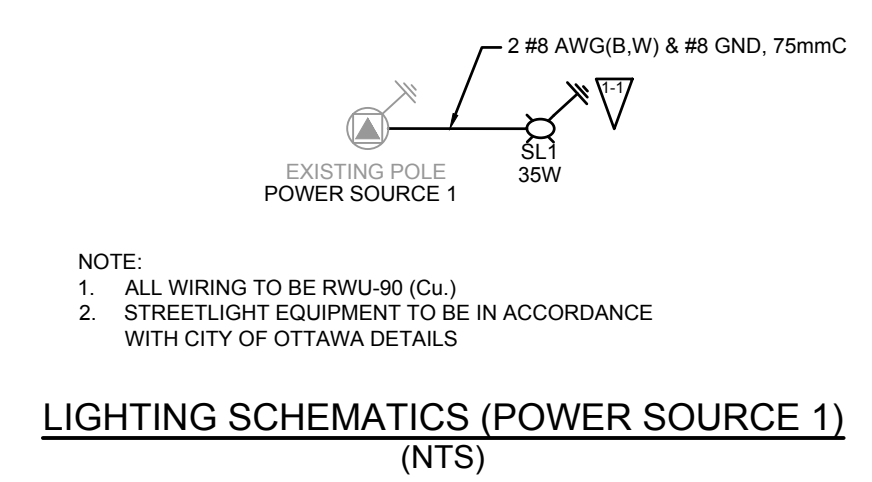
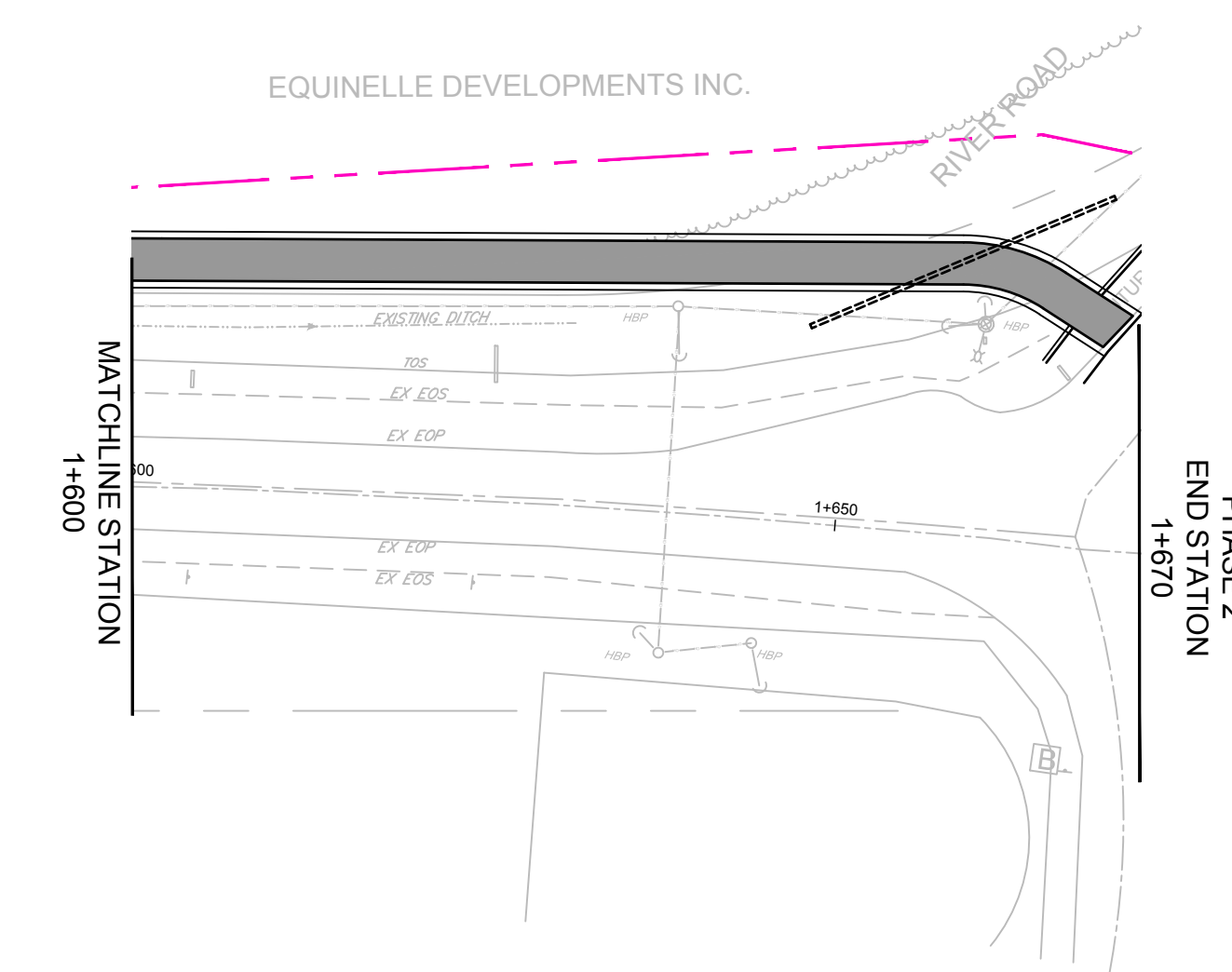
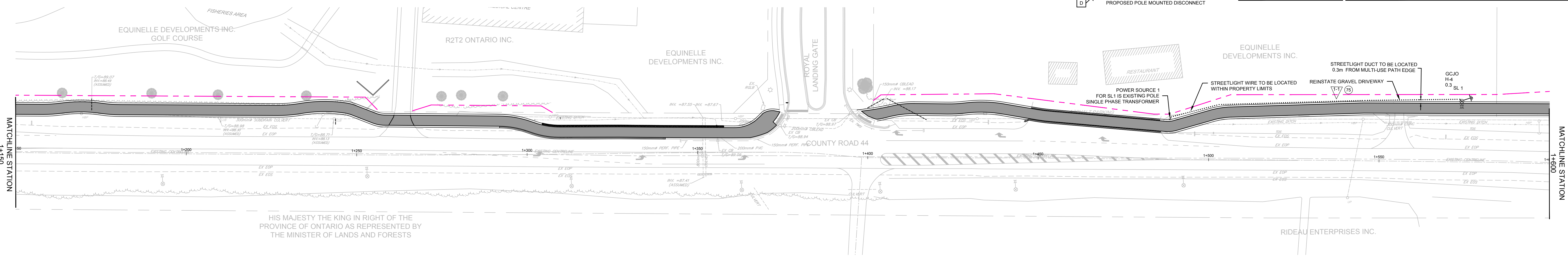
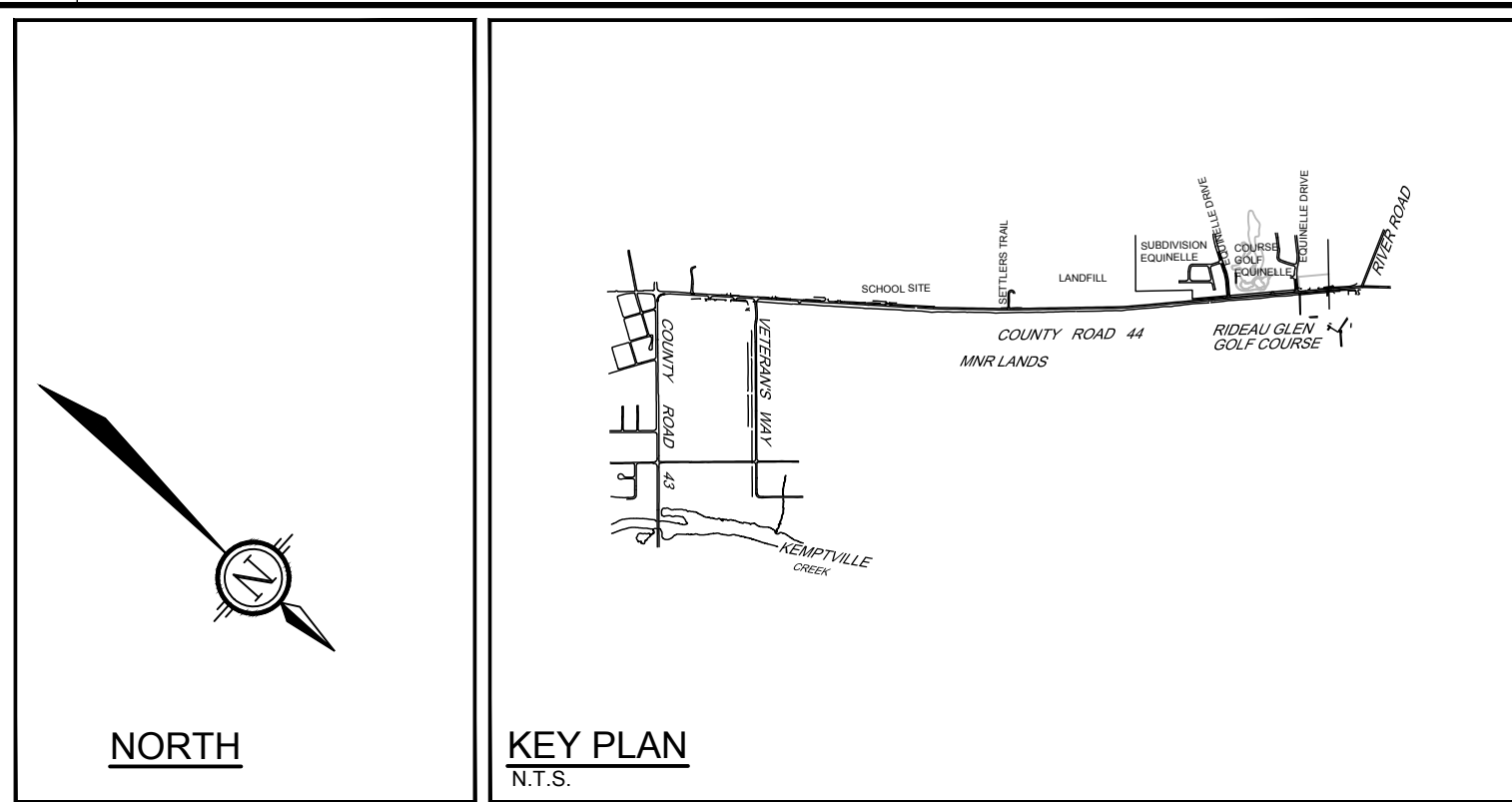
STREET LIGHT SCHEDULE

TYPE	VOLTAGE	LAMP	DESCRIPTION
GCJO H-4 0.3	120V	35W LED	PROPOSED LEOTEK GREENCOBRA Jr. LED STREET LIGHT ON A 0.3m BRACKET AND 4.5m HAMPTON POLE, REFER TO THE FOLLOWING CATALOGUE NUMBERS: <ul style="list-style-type: none"> GCJO-15H-MV-WW-2R-GY-700-PCRT-CR (LUMINAIRE) 0.3m (BRACKET) HA-200-B-1-PG-X (POLE)

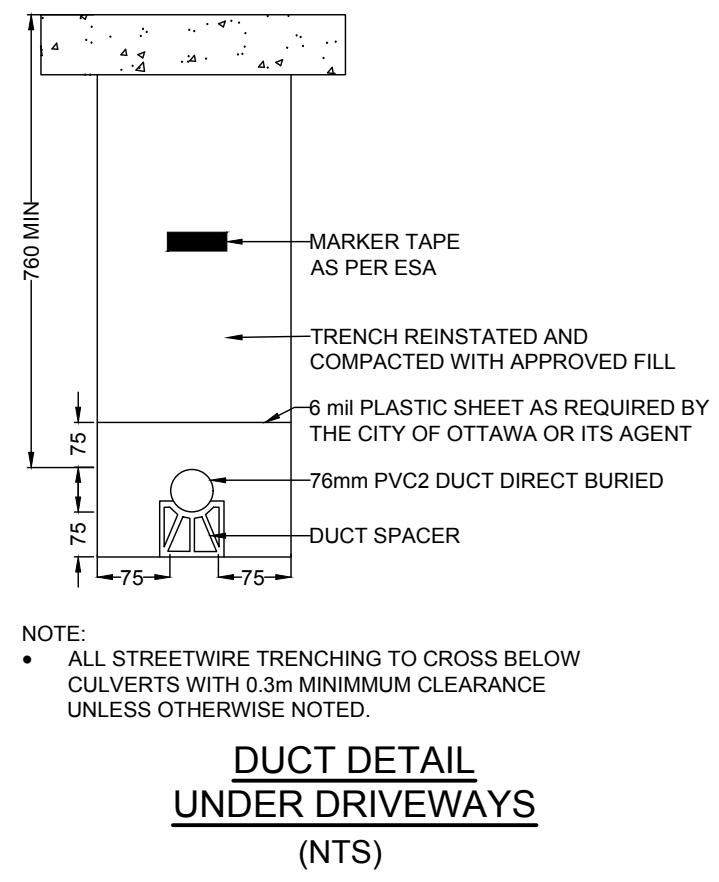


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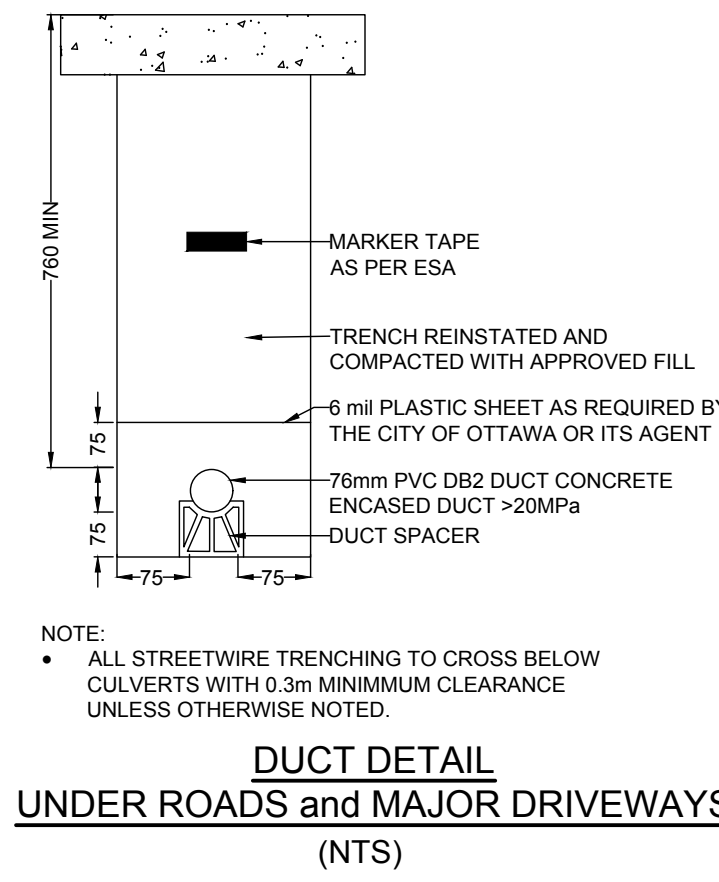
- Electrical Ground Rod
- Direct Buried Streetlight Duct and Wire
- Proposed Overhead Wire
- Concrete Encased Streetlight Duct and Wire
- Existing Streetlight Pole
- Streetlight Pole, Bracket and Luminaire
- Proposed Streetlight Pole and Summary
- Proposed Streetlight Circuit (Transformer-Circuit)
- Under Ground Streetlight Cable
- Existing Hydro Pole
- Proposed Property Line
- Proposed Culvert
- Proposed Pole Mounted Transformer
- Proposed Pole Mounted Disconnect



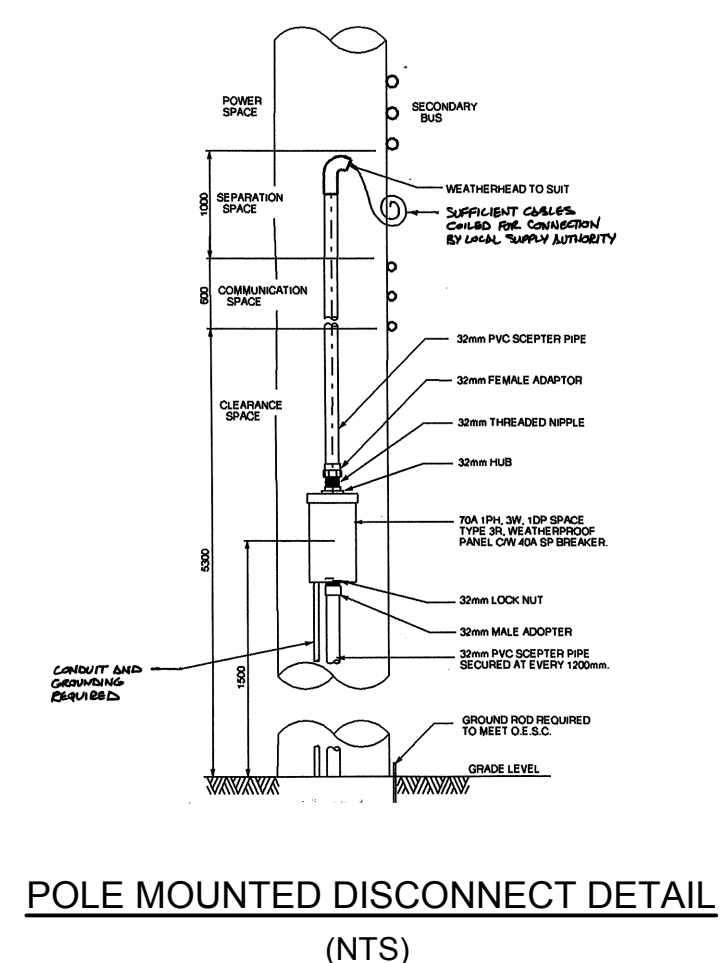
LIGHTING SCHEMATICS (POWER SOURCE 1)
(NTS)



DUCT DETAIL UNDER DRIVEWAYS
(NTS)



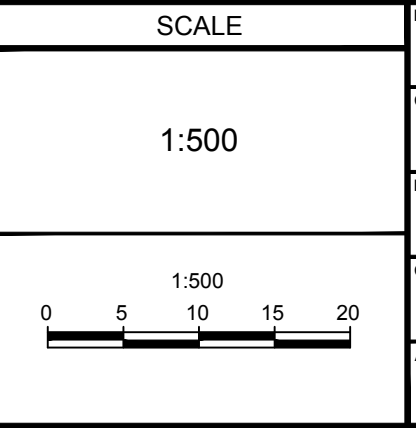
DUCT DETAIL UNDER ROADS and MAJOR DRIVEWAYS
(NTS)



POLE MOUNTED DISCONNECT DETAIL
(NTS)

NOTE:
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NO.	REVISION	DATE	BY
1.	ISSUED FOR TENDER	JAN 31/25	CJR



DESIGN	DATE	BY
CHECKED	MWB	
DRAWN	MWB	
CHECKED	LP	
APPROVED	CJR	

NOVATECH
Engineers, Planners & Landscape Architects
Suite 200, 240 Michael Cowpland Drive
Ottawa, Ontario, Canada K2M 1P6
Telephone: (613) 254-9643
Facsimile: (613) 254-5867
Website: www.novatech-eng.com

LOCATION MUNICIPALITY OF NORTH GRENVILLE COUNTY ROAD 44	DRAWING NAME STREETLIGHT LOCATION PLAN STA 1+150 TO STA 1+670	PROJECT NO. 123066
		REV # 1
		DRAWING NO. 123066-SL2

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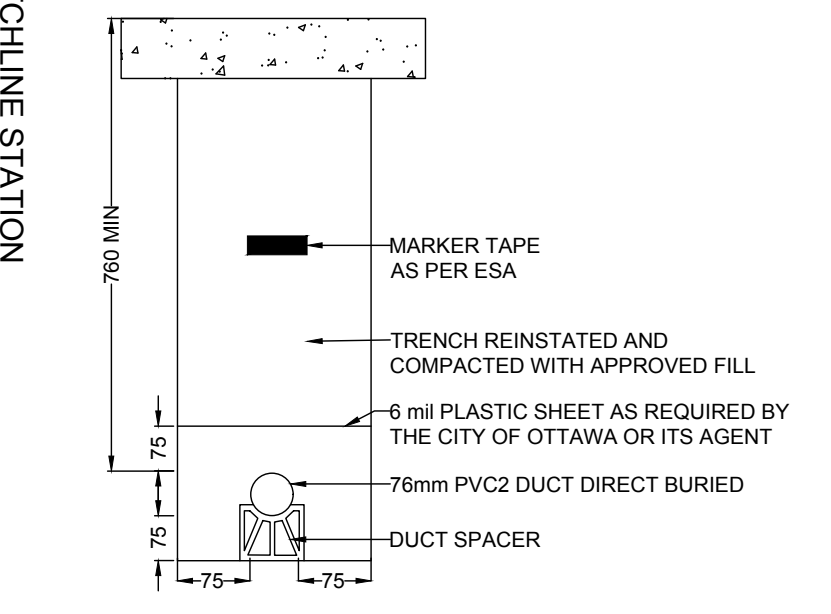
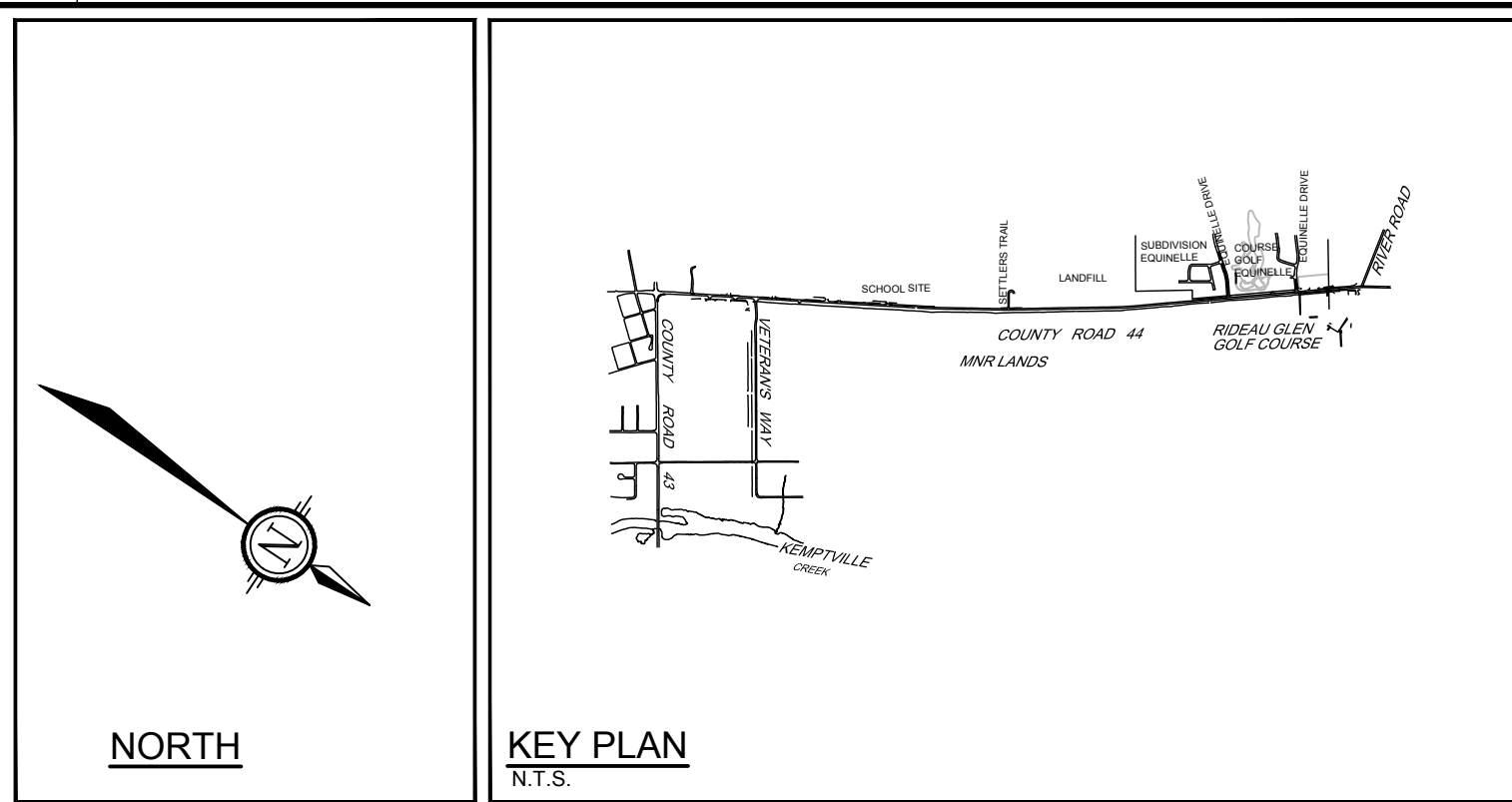
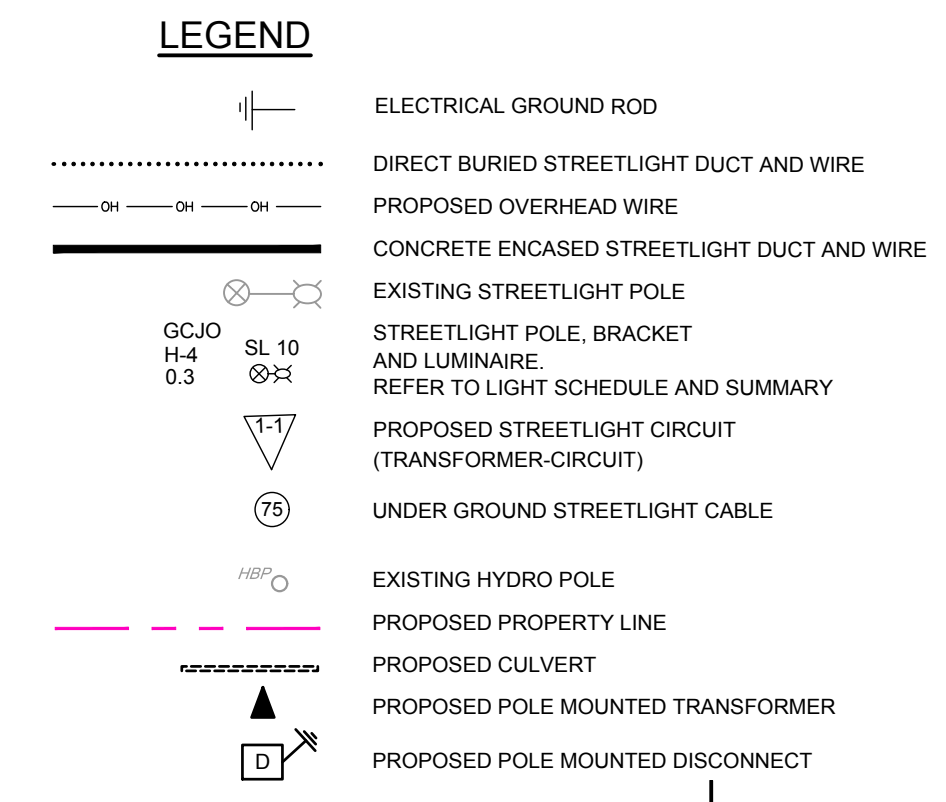
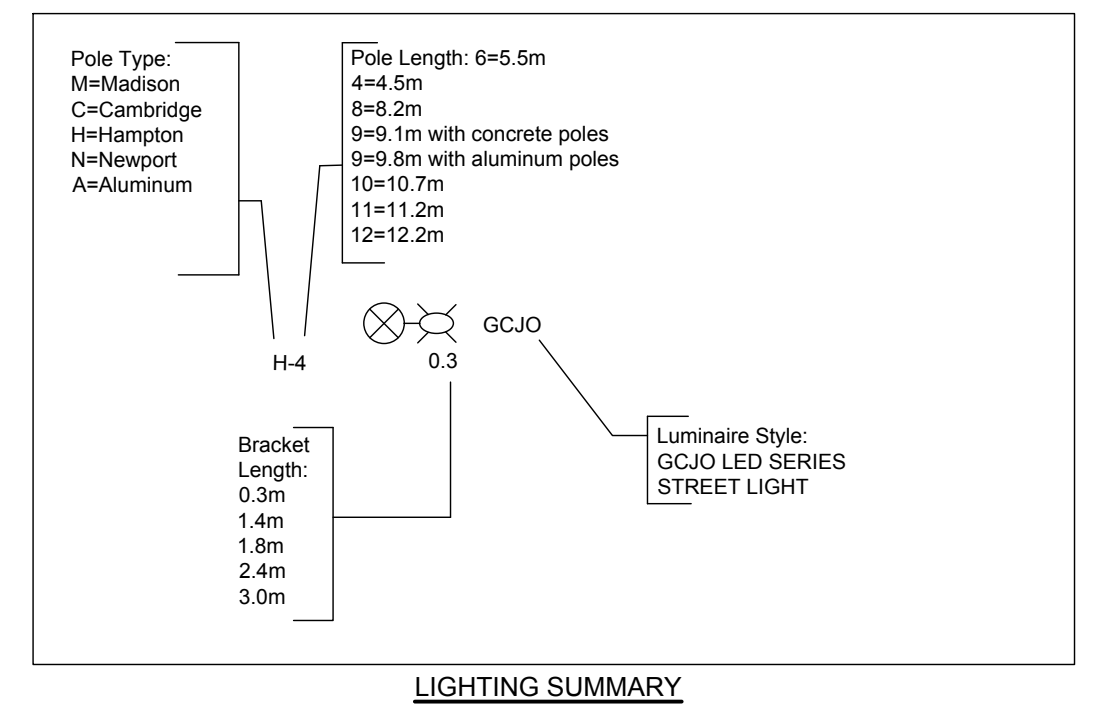
PL-487-2017-0389m-01m

STREETLIGHTING NOTES:

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- DISCONNECT SWITCH AND ITS INSTALLATION SHALL STRICTLY CONFORM TO CITY OF OTTAWA DESIGN STANDARDS.
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STREET LIGHT SCHEDULE

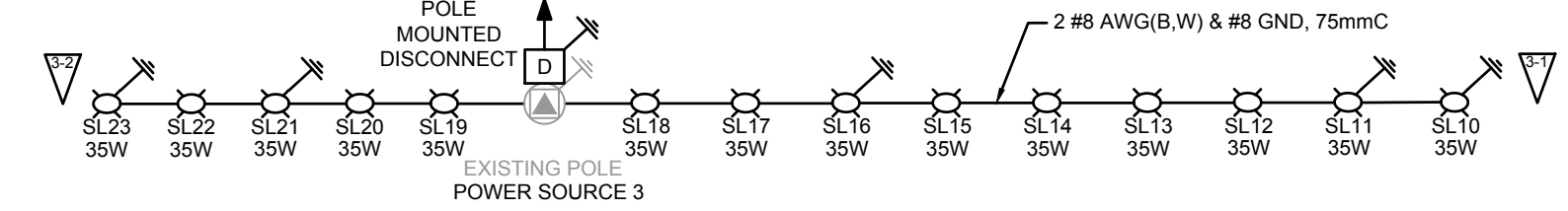
TYPE	VOLTAGE	LAMP	DESCRIPTION
GCJO H-4 0.3	120V	35W LED	PROPOSED LEOTEK GREENCOBRA JR. LED STREET LIGHT ON A 0.3m BRACKET AND 4.5m HAMPTON POLE, REFER TO THE FOLLOWING CATALOGUE NUMBERS: • GCJO - 15H-MV-WW-2R-GY-700-PCRT-CR (LUMINAIRE) • 0.3m (BRACKET) • HA-200-B-1-PG-X (POLE)



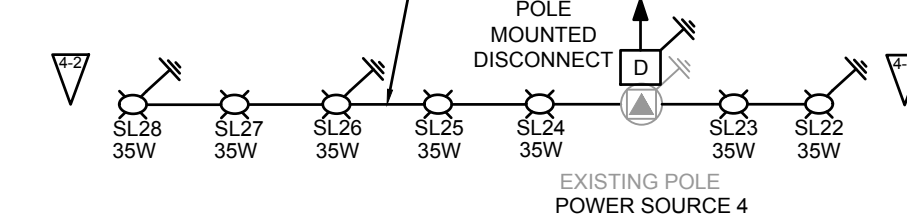
NOTE: ALL STREETWIRE TRENCHING TO CROSS BELOW CULVERTS WITH 0.3m MINIMUM CLEARANCE UNLESS OTHERWISE NOTED.



NOTE: ALL STREETWIRE TRENCHING TO CROSS BELOW CULVERTS WITH 0.3m MINIMUM CLEARANCE UNLESS OTHERWISE NOTED.



NOTE:
1. ALL WIRING TO BE RWU-90 (Cu.)
2. STREETLIGHT EQUIPMENT TO BE IN ACCORDANCE WITH MUNICIPALITY OF NORTH GRENVILLE DETAILS.



NOTE:
1. ALL WIRING TO BE RWU-90 (Cu.)
2. STREETLIGHT EQUIPMENT TO BE IN ACCORDANCE WITH CITY OF OTTAWA DETAILS.

NOTE:
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SCALE		DESIGN
1:500		MWB
1:500		MWB
0 5 10 15 20		LP
		CJR
		APPROVED

NO.	REVISION	DATE	BY
1.	ISSUED FOR TENDER	JAN 31/25	CJR

LOCATION	
MUNICIPALITY OF NORTH GRENVILLE COUNTY ROAD 44	
DRAWING NAME STREETLIGHT LOCATION PLAN STA 2+450 TO STA 3+665	

NOVATECH
Engineers, Planners & Landscape Architects
Suite 200, 240 Michael Copland Drive
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Telephone: (613) 254-9643
Facsimile: (613) 254-5867
Website: www.novatech-eng.com

PROJECT NO.	REV	REV #
123066		1
123066-SL3		

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