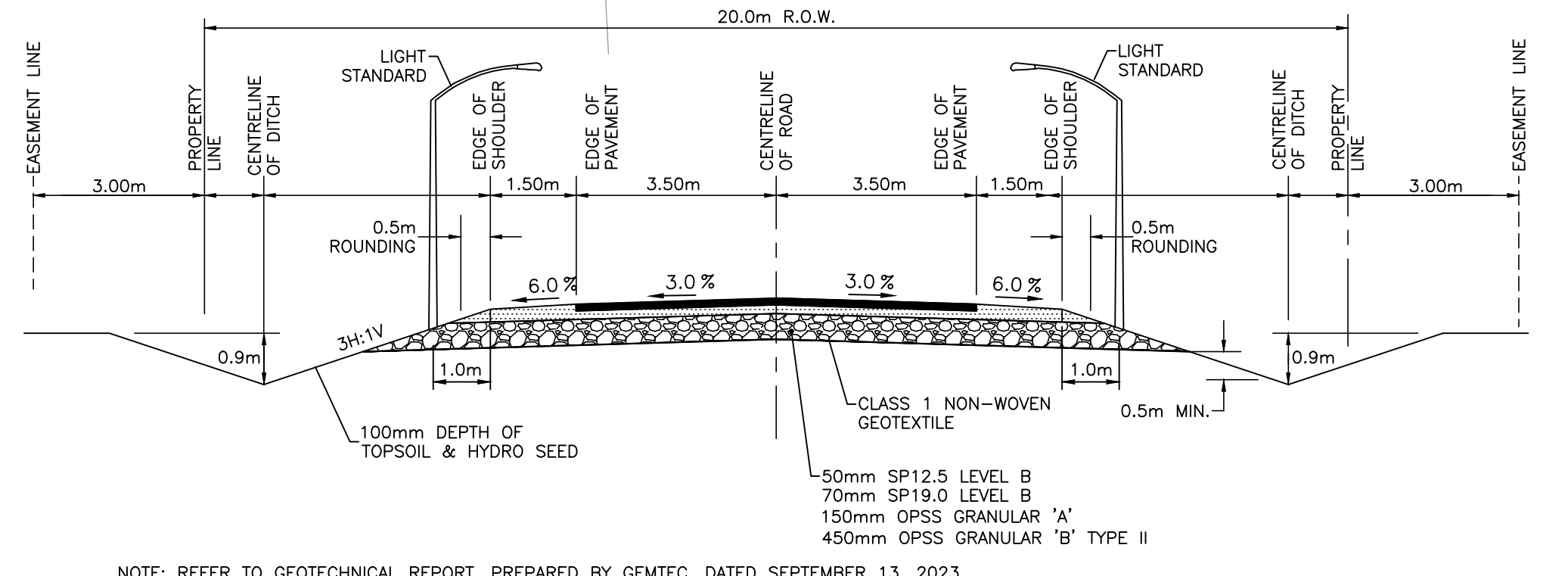
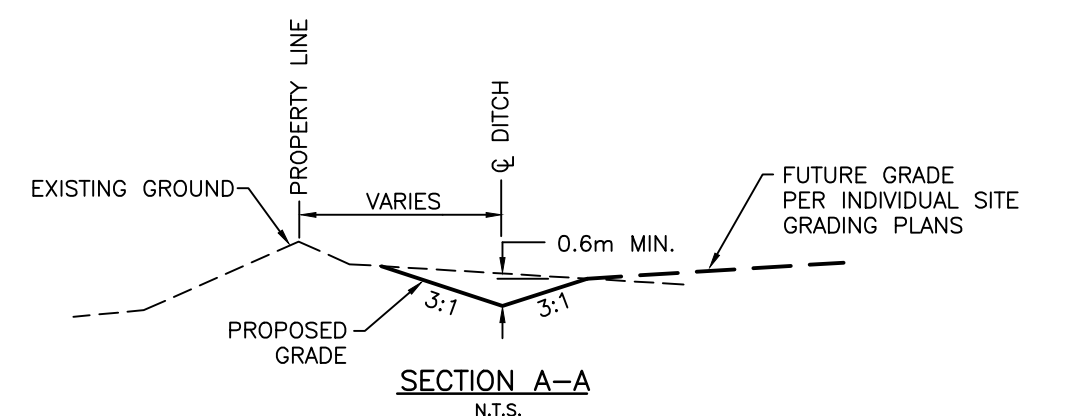


**LEGEND**

- PROPERTY BOUNDARY
- ~104.00~ EXISTING ELEVATION
- (40.00) PROPOSED CENTRELINE OF ROAD GRADE
- x 105.00 PROPOSED GRADE
- 2.0% DRAINAGE SLOPE & DIRECTION
- ||| TERRACING (3H:1V MAX.)
- - - - - PROPOSED DITCH



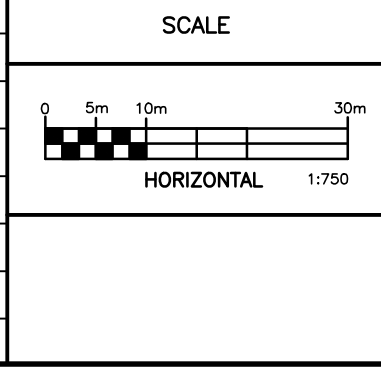
1. THE CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
2. THE CONTRACTOR SHALL REINSTATE DISTURBED AREAS TO EXISTING OR BETTER CONDITIONS.
3. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW-CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW ASPHALT.
4. THE CONTRACTOR SHALL CONFIRM LOCATIONS AND ELEVATIONS OF ALL EXISTING SERVICES AND UTILITIES THAT MAY BE DAMAGED OR CAUSE CONFLICTS PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL APPRAISE HIS/HER SELF OF ALL SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED AND SHALL CARRY OUT THEIR OWN TEST PITS AS REQUIRED TO MAKE THEIR OWN INDEPENDENT ASSESSMENT OF GROUND CONDITIONS. THE CONTRACTOR SHALL NOT MAKE ANY CLAIM FOR ANY EXTRA COST DUE TO ANY SURFACE OR SUBSURFACE CONDITIONS VARYING FROM THOSE ANTICIPATED BY THE CONTRACTOR.
6. THE CONTRACTOR SHALL COMPLY WITH THE GEOTECHNICAL REPORT FOR PROPOSED ROADWAY PAVEMENT STRUCTURE. UNLESS OTHERWISE NOTED SOFT AREAS SHALL BE SUB-EXCAVATED, WITH A 5:1 TRANSITION TAPER TO FIRM SUBGRADE, AND BACKFILLED WITH WITH COMPACTED GRANULAR 'B' MATERIAL IN MAXIMUM 300mm THICK LIFTS.
7. THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROVIDE FOR DEWATERING, SUPPORT AND PROTECTION OF EXCAVATIONS AND TRENCHING AS WELL AS RELEASE OF ANY PUMPED GROUND WATER IN A CONTROLLED AND APPROVED MANNER.
8. ALL MATERIAL SUPPLIED AND PLACED FOR ROAD CONSTRUCTION SHALL BE TO OPSS STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. (CONSTRUCTION OPSS 206, 310 & 314 MATERIALS OPSS 1001, 1003 & 1010).
9. FROST TAPERS SHALL BE PROVIDED FOR ALL ROAD CROSSING CULVERTS IN ACCORDANCE WITH CURRENT OPSS 803.030.
10. ALL ROADS AND DITCHES SHALL BE CONSTRUCTED IN ACCORDANCE WITH TOWNSHIP AND O.P.S. CONSTRUCTION AND MATERIAL SPECIFICATIONS.
11. GRANULAR 'A' AND GRANULAR 'B' FOR ROAD BASE SHALL BE COMPACTED TO A MINIMUM OF 100% STANDARD PROCTOR DENSITY UNLESS OTHERWISE DIRECTED BY GEOTECHNICAL ENGINEER.
12. TOPSOIL AND ORGANIC MATERIAL SHALL BE STRIPPED FOR THE FULL WIDTH OF THE RIGHT-OF-WAY.
13. PROPOSED CULVERTS TO BE SET 1/10TH OF THEIR DIAMETER BELOW THE PROPOSED DITCH GRADE.
14. EXISTING WELLS SHALL BE DECOMMISSIONED IN ACCORDANCE WITH O.REG. 903.
15. EXCESS SOILS SHALL BE MANAGED IN ACCORDANCE WITH O.REG. 406/19.
16. CONTRACTOR SHALL FOLLOW RECOMMENDATIONS FROM THE EIS REPORT DATED JUNE 21, 2024.

**NOTES**

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PROPERTY BOUNDARIES DERIVED FROM DRAFT PLAN OF SUBDIVISION, PART OF LOTS 11 AND 12, CONCESSION 2, GEOGRAPHIC TOWNSHIP OF HUNTLEY, CITY OF OTTAWA, DATED FEBRUARY 2, 2025, PREPARED BY EGIS SURVEYING INC. NDB3 (ORIGINAL) MTM ZONE 9 COORDINATE SYSTEM.

NO.	ISSUED FOR REVIEW	DATE	BY
1	ISSUED FOR REVIEW	06/03/25	BLM
NO.	REVISION DESCRIPTION	DATE	BY



**Robinson Land Development**

350 Palladium Drive  
Ottawa, ON K2V 1A8  
(613) 592-6060 roii.com

DESIGN	JHB
CHECKED	BLM
DRAWN	JHB
CHECKED	CC
APPROVED	BLM

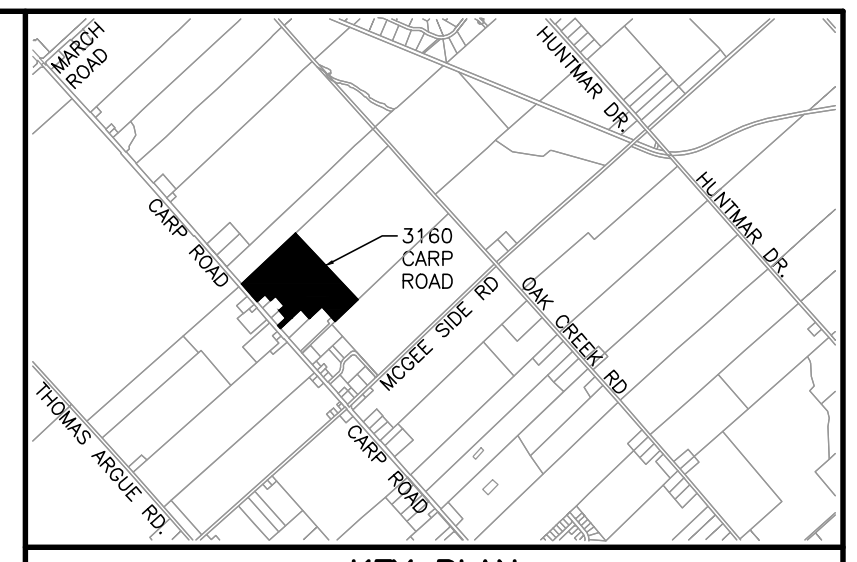
**T & L CARROLL HOLDINGS INC.**

**CARROLL INDUSTRIAL SUBDIVISION**

**3160 CARP ROAD**

**CITY OF OTTAWA**

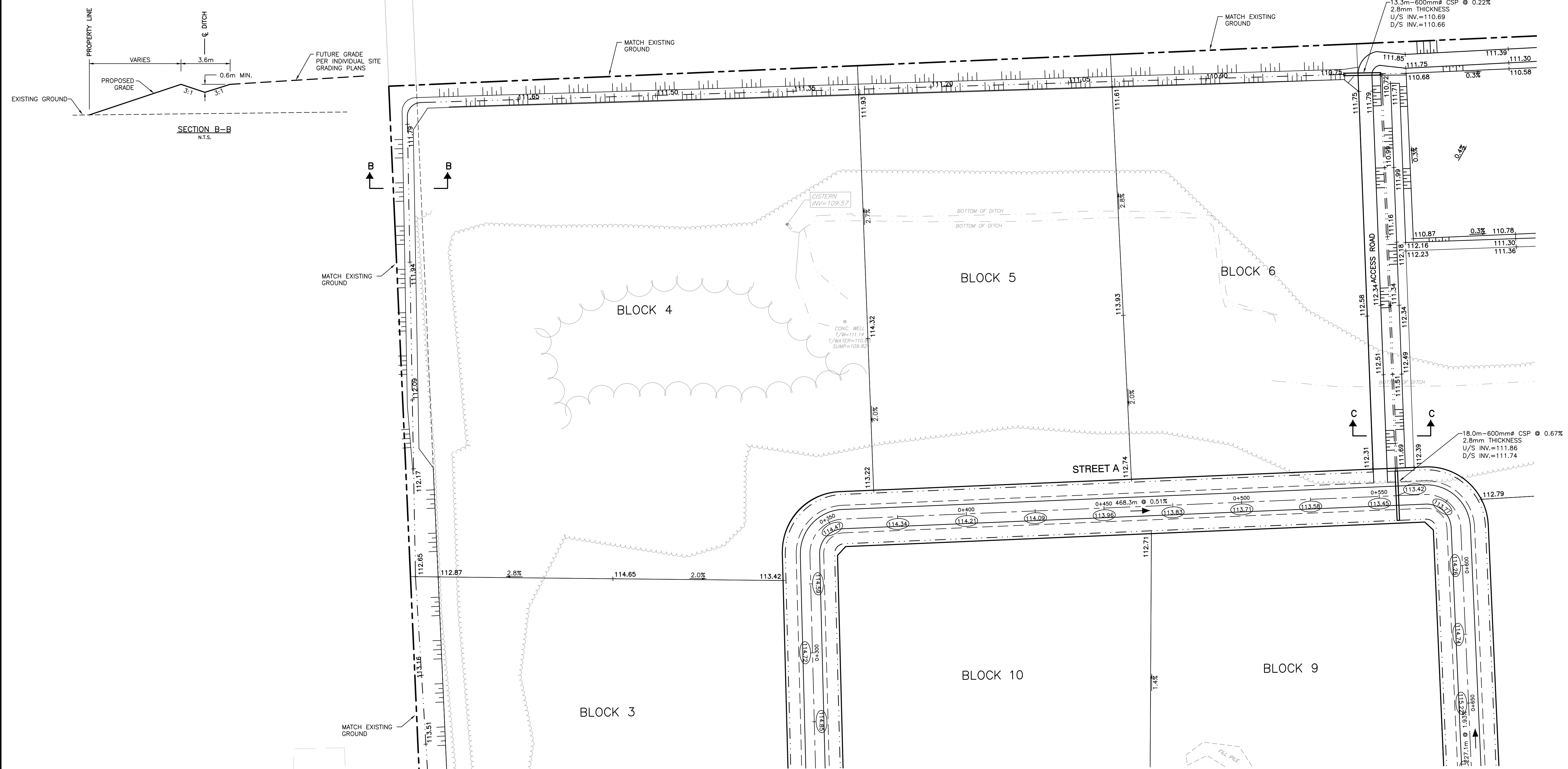
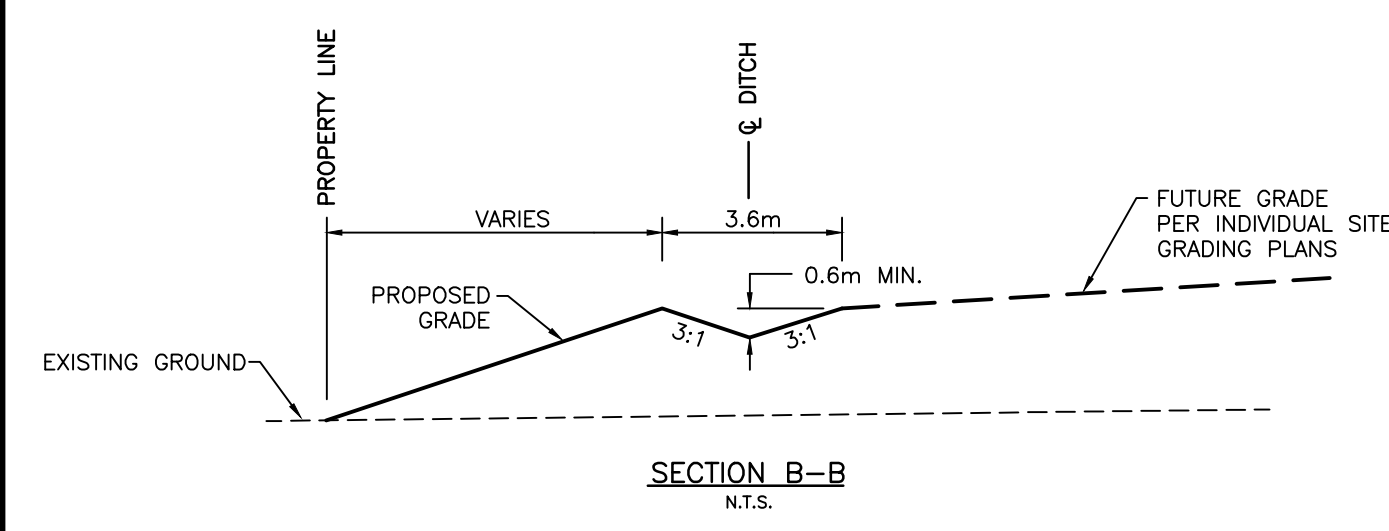
PROJECT No.	24104
SURVEY	LIDAR
DATED	MARCH 2025
DWG. No.	24104-GR1



KEY PLAN

**LEGEND**

- PROPERTY BOUNDARY
- ~ 104.00 EXISTING ELEVATION
- (140.00) PROPOSED CENTRELINE OF ROAD GRADE
- X 105.00 PROPOSED GRADE
- 2.0% DRAINAGE SLOPE & DIRECTION
- ||| TERRACING (3H:1V MAX.)
- - - - - PROPOSED DITCH

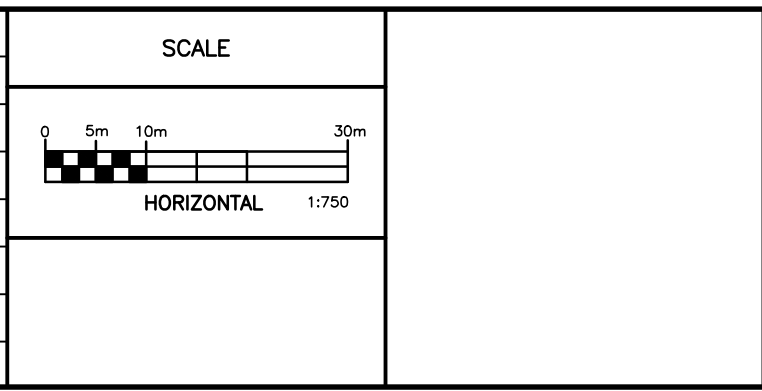


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NO.	REVISION DESCRIPTION	DATE	BY
1	ISSUED FOR REVIEW	06/03/25	BLM



**Robinson**  
Land Development

350 Palladium Drive  
Ottawa, ON K2V 1A8  
(613) 592-6060 rcii.com

DESIGN

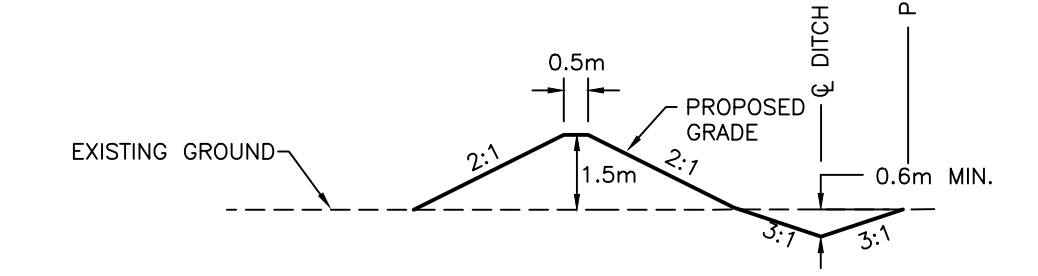
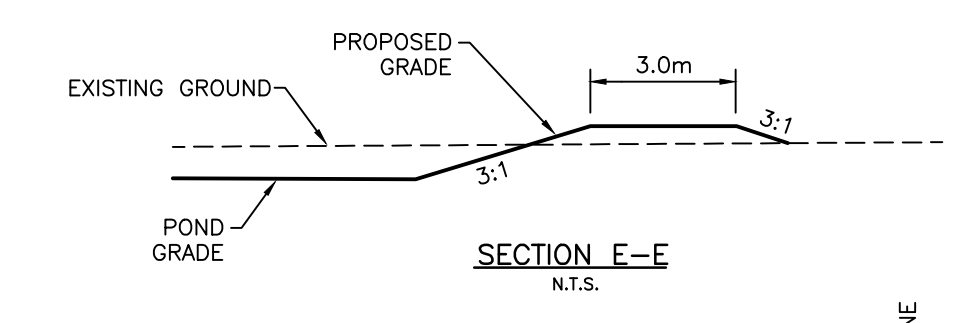
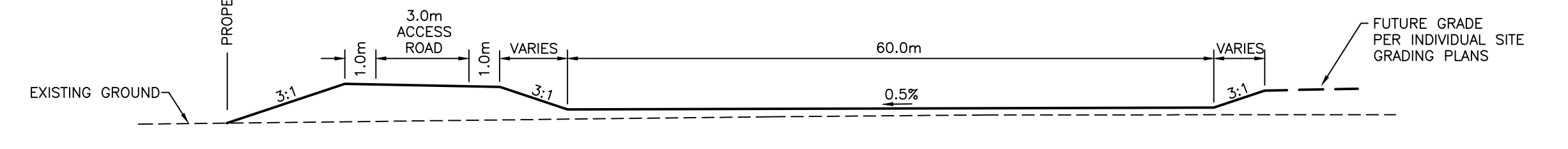
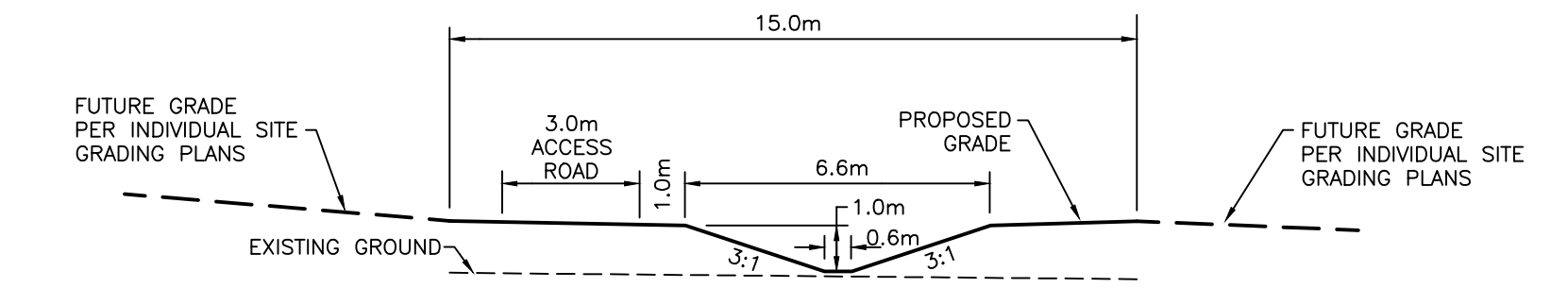
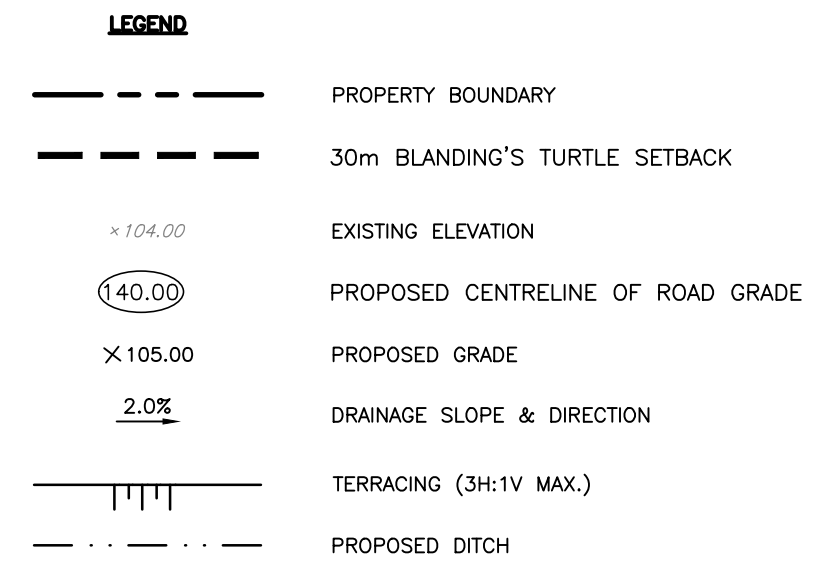
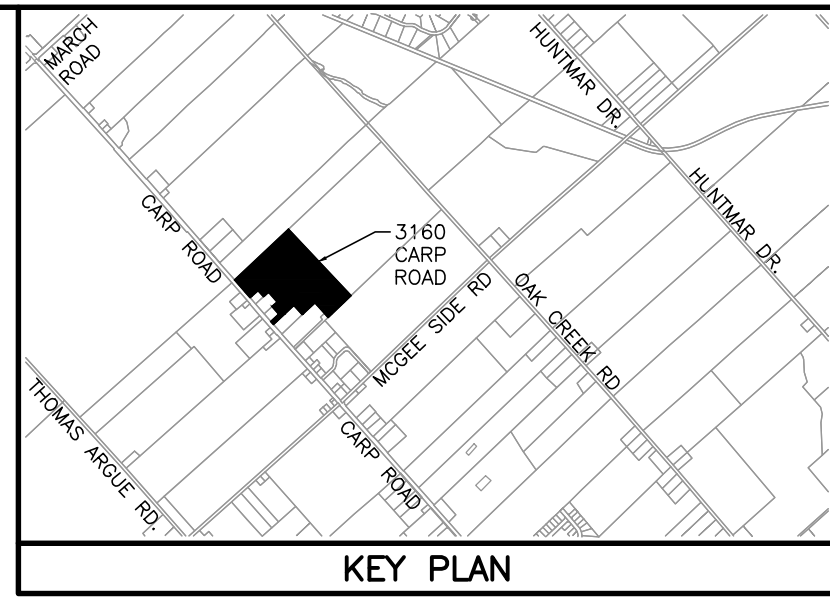
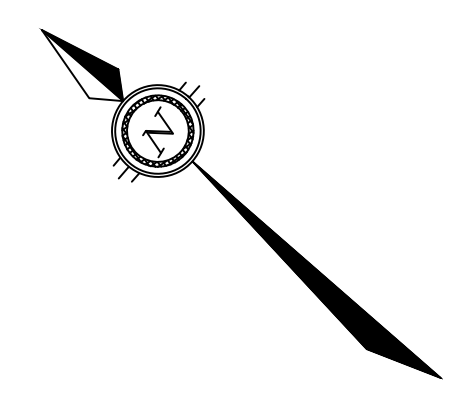
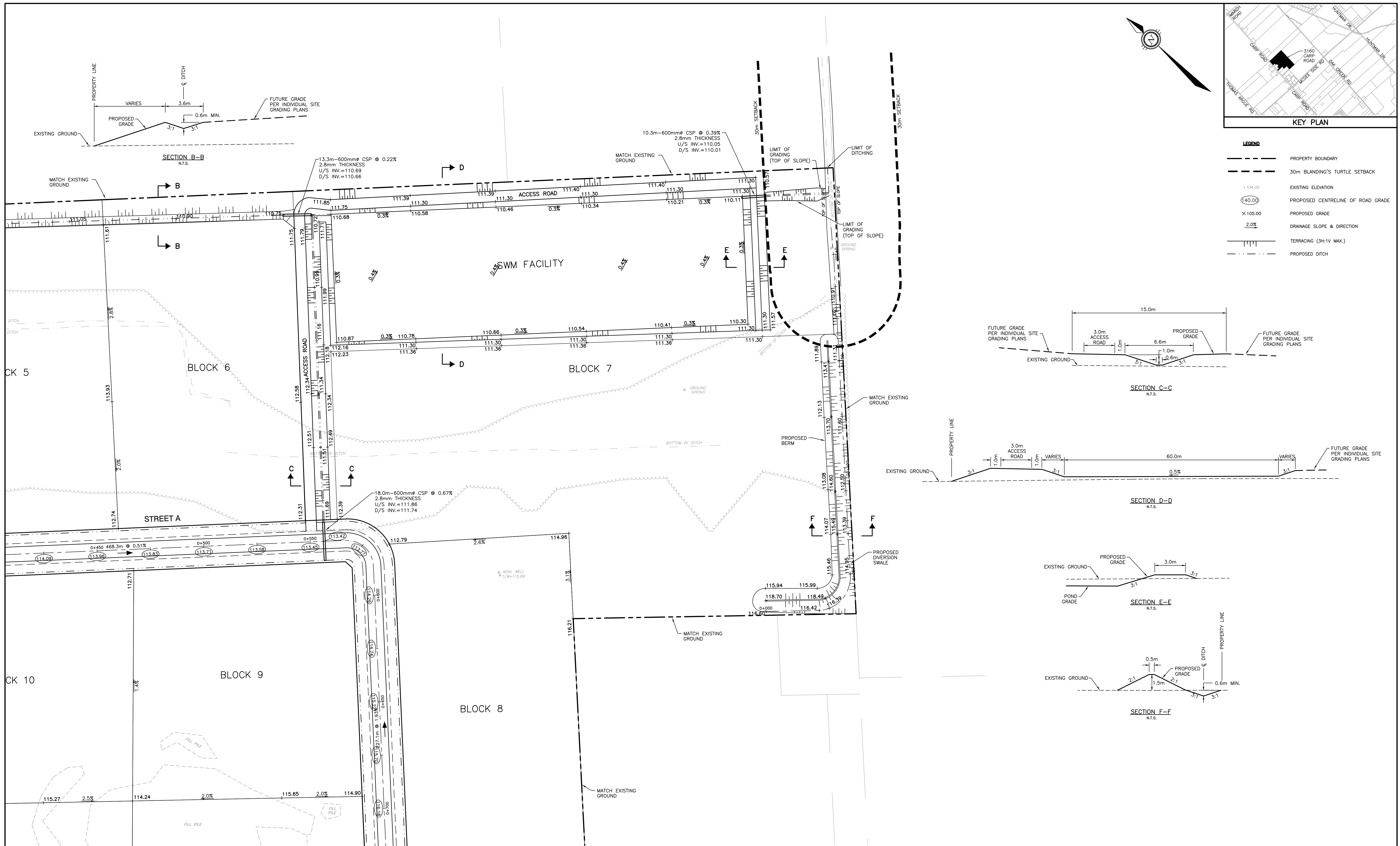
JHB
CHECKED BLM
DRAWN JHB
CHECKED CC
APPROVED BLM

**T & L CARROLL HOLDINGS INC.**

**CARROLL INDUSTRIAL SUBDIVISION**  
3160 CARP ROAD  
CITY OF OTTAWA

**GRADING AND DRAINAGE PLAN**

PROJECT No.	24104
SURVEY	LIDAR
DATED	MARCH 2025
DWG. No.	24104-GR2

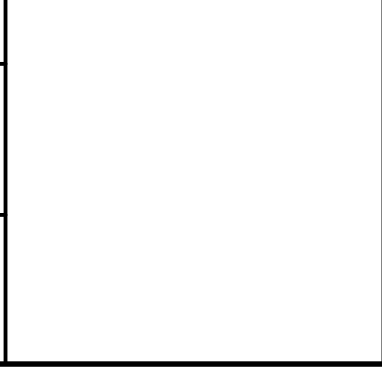
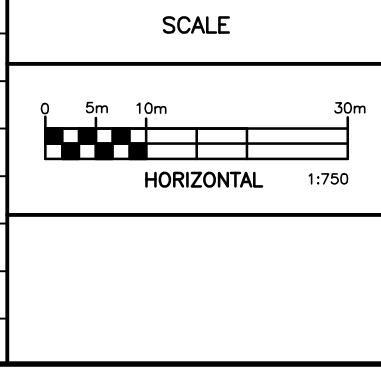


**NOTES**

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NO.	REVISION DESCRIPTION	DATE	BY
1	ISSUED FOR REVIEW	06/03/25	BLM



**Robinson**  
 Land Development

350 Palladium Drive  
 Ottawa, ON K2V 1A8  
 (613) 592-6060 rcii.com

DESIGN	JHB
CHECKED	BLM
DRAWN	JHB
CHECKED	CC
APPROVED	BLM

**T & L CARROLL HOLDINGS INC.**

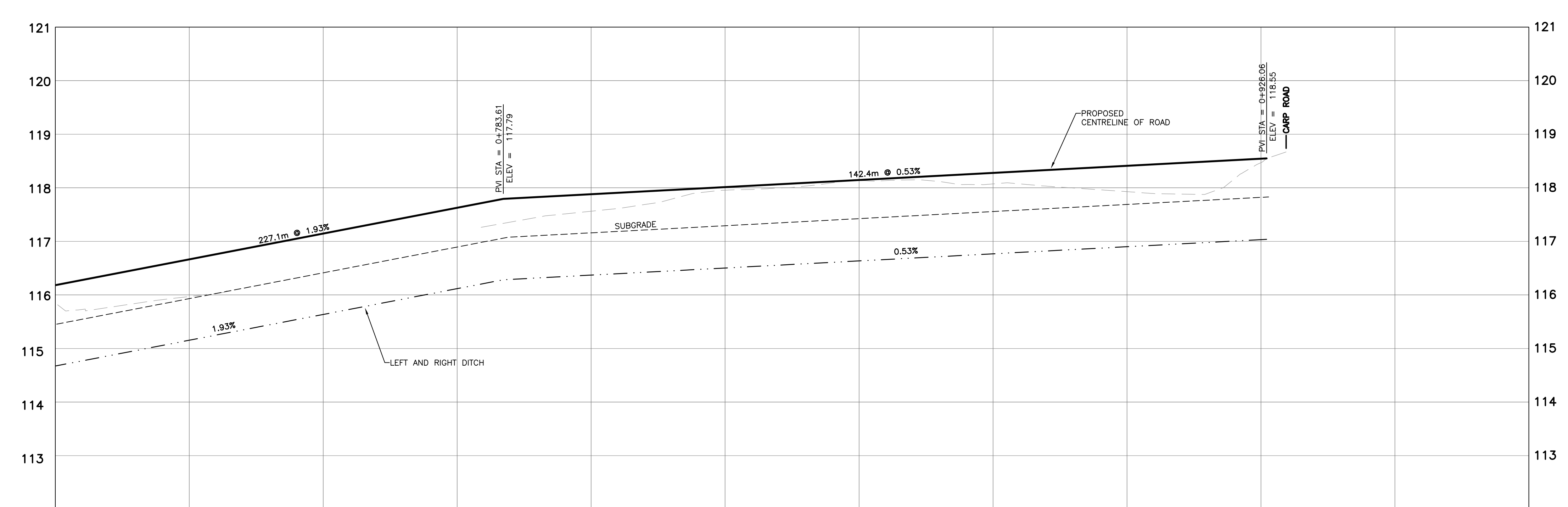
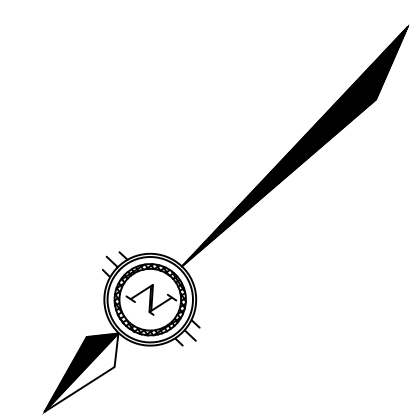
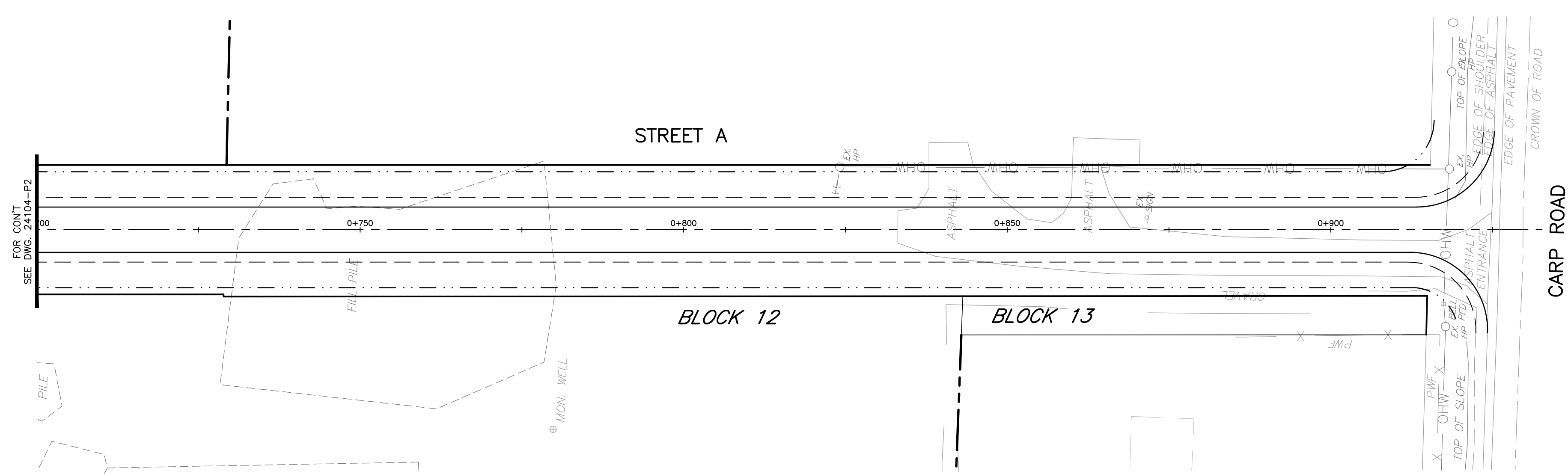
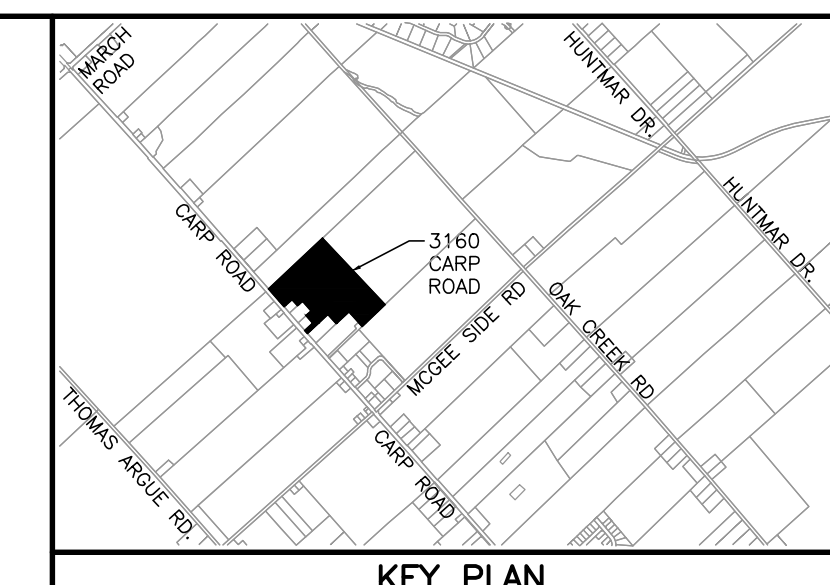
**CARROLL INDUSTRIAL SUBDIVISION**  
 3160 CARP ROAD  
 CITY OF OTTAWA

**GRADING AND DRAINAGE PLAN**

PROJECT No.	24104
SURVEY	LIDAR
DATED	MARCH 2025
DWG. No.	24104-GR3







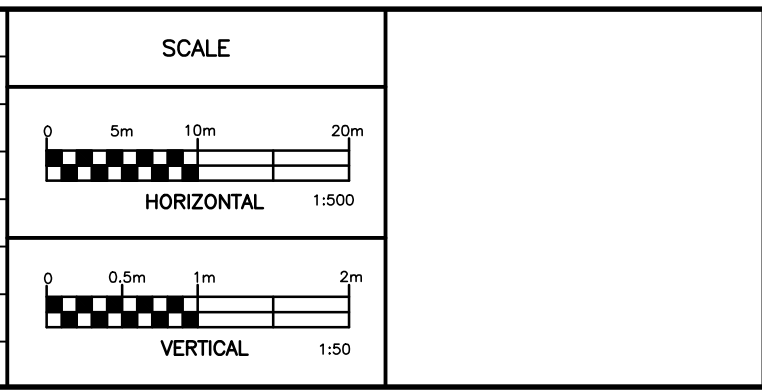
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PROPOSED LEFT DITCH GRADE	114.67	115.15	115.64	116.12	116.28	116.37	116.50	116.63	116.77	116.90	117.03	PROPOSED LEFT DITCH GRADE
PROPOSED RIGHT DITCH GRADE	114.67	115.15	115.64	116.12	116.28	116.37	116.50	116.63	116.77	116.90	117.03	PROPOSED RIGHT DITCH GRADE
EXISTING R.O.W ELEVATION	115.65	115.97			117.56	117.96	118.13	118.07	117.93	118.47		EXISTING R.O.W ELEVATION
CHAINAGE	0+700	0+725	0+750	0+775	0+800	0+825	0+850	0+875	0+900	0+925	0+950	CHAINAGE

**NOTES**

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Land Development

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Ottawa, ON K2V 1A8  
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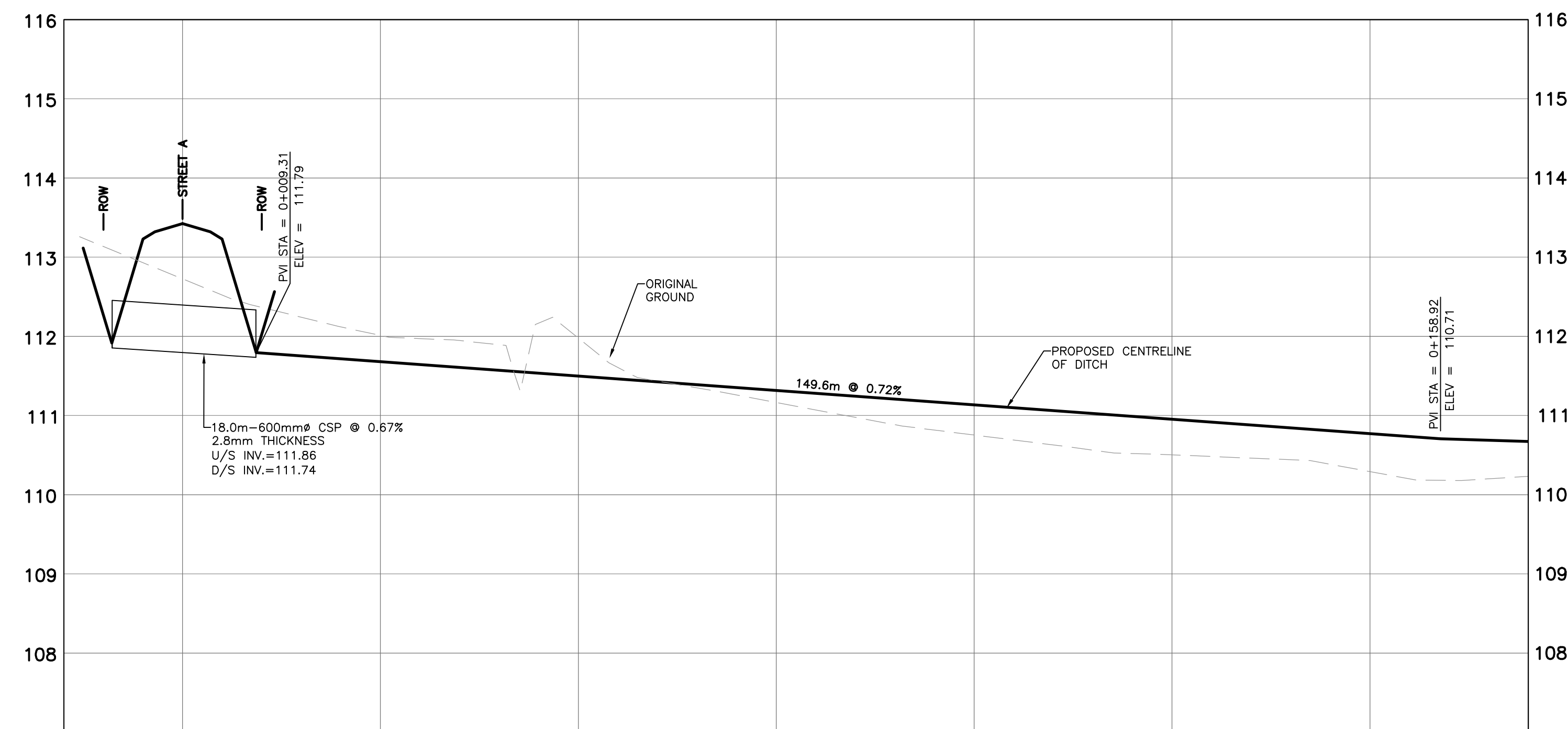
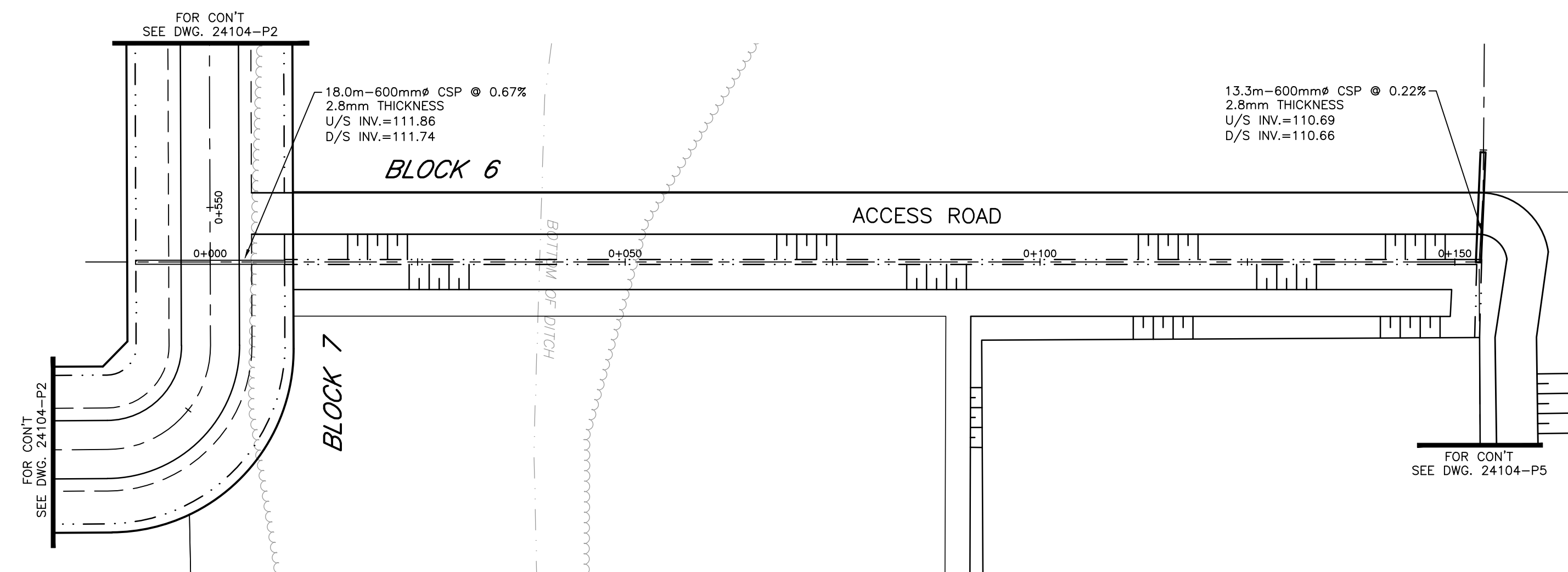
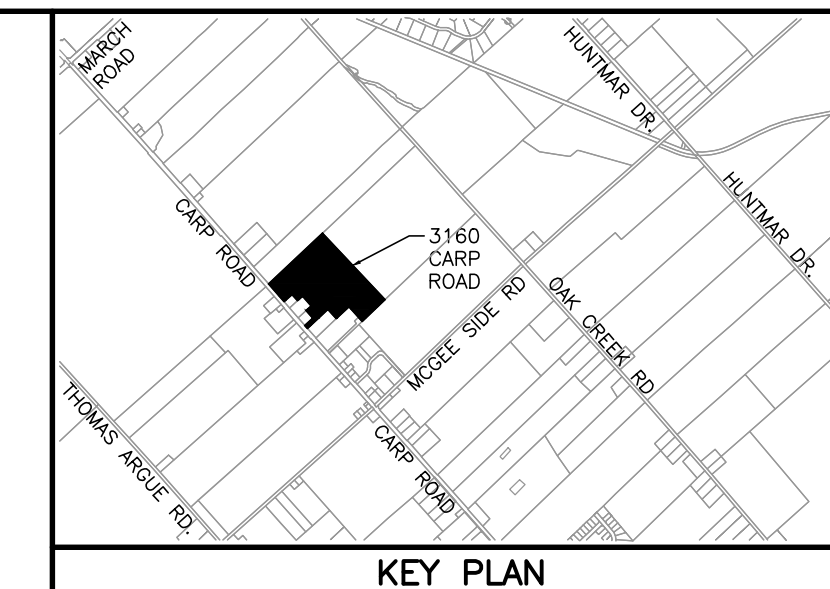
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DRAWN	JHB
CHECKED	CC
APPROVED	BLM

**T & L CARROLL HOLDINGS INC.**

**CARROLL INDUSTRIAL SUBDIVISION**  
3160 CARP ROAD  
CITY OF OTTAWA

**PLAN AND PROFILE**  
STA 0+700 TO STA 0+950

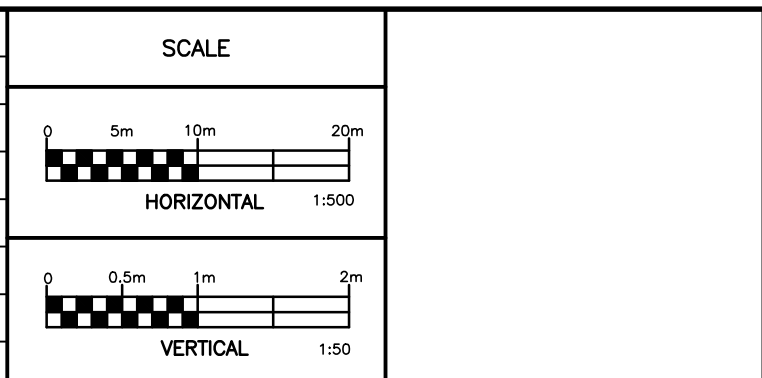
PROJECT No.	24104
SURVEY	LIDAR
DATED	MARCH 2025
DWG. No.	24104-P3



PROPOSED $\phi$ DITCH ELEVATION		111.68	111.50	111.32	111.13	110.95	110.77	PROPOSED ROAD $\phi$ ELEVATION
PROPOSED LEFT DITCH GRADE								PROPOSED LEFT DITCH GRADE
PROPOSED RIGHT DITCH GRADE								PROPOSED RIGHT DITCH GRADE
EXISTING $\phi$ R.O.W ELEVATION	112.23	112.01	111.98	111.16	110.25	110.50	110.29	EXISTING $\phi$ R.O.W ELEVATION
CHAINAGE	0+000	0+025	0+050	0+075	0+100	0+125	0+150	CHAINAGE

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NO.	REVISION DESCRIPTION	DATE	BY
1	ISSUED FOR REVIEW	06/03/25	BLM



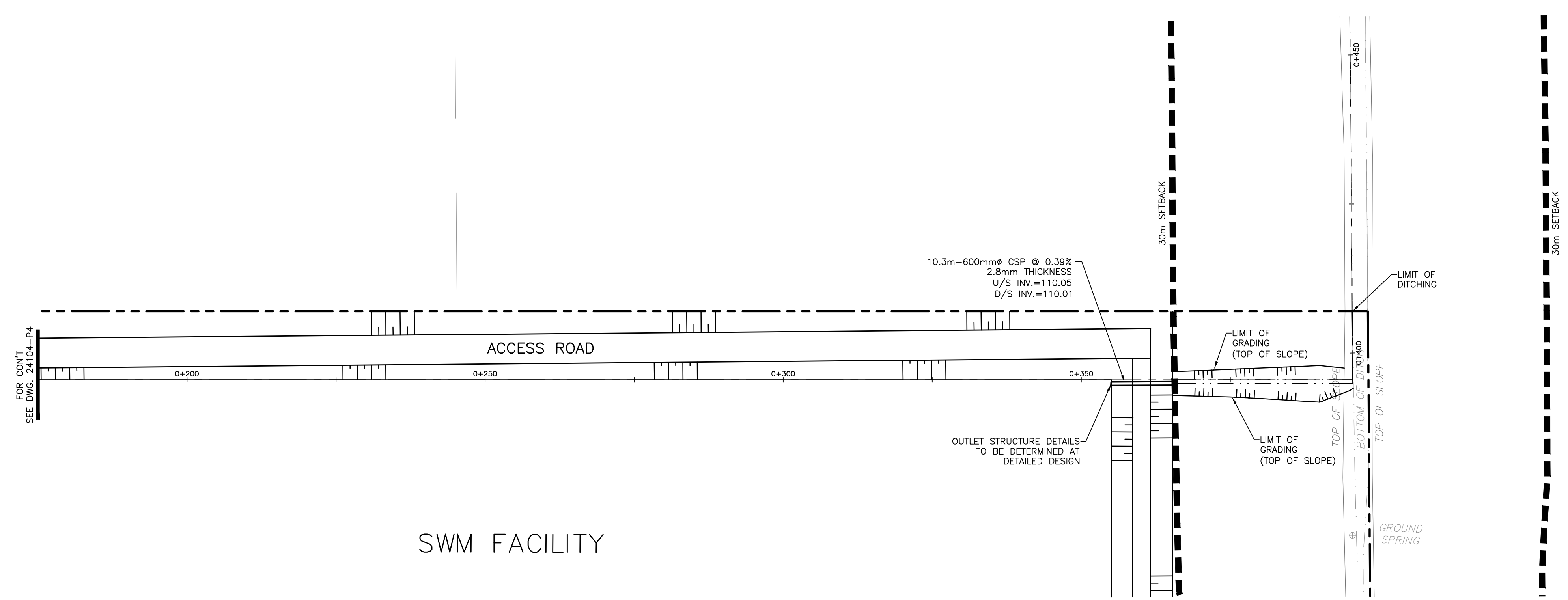
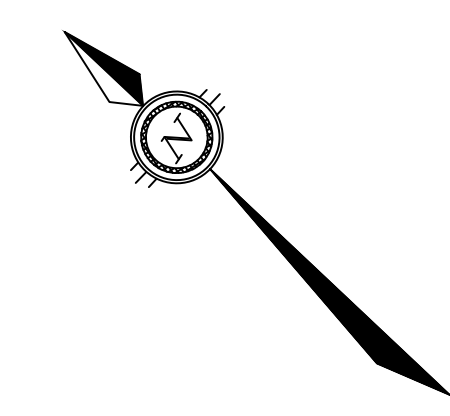
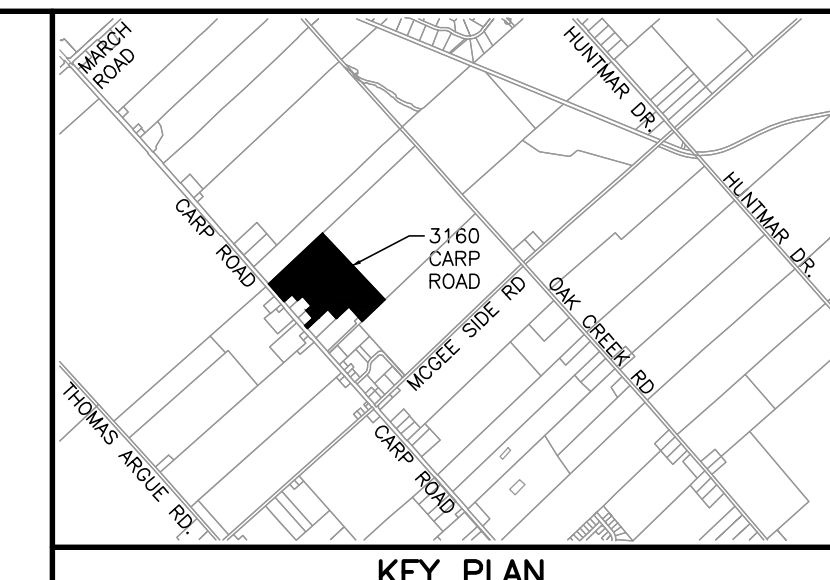
**Robinson Land Development**  
 350 Palladium Drive  
 Ottawa, ON K2V 1A8  
 (613) 592-6060 rcii.com

DESIGN	JHB
CHECKED	BLM
DRAWN	JHB
CHECKED	CC
APPROVED	BLM

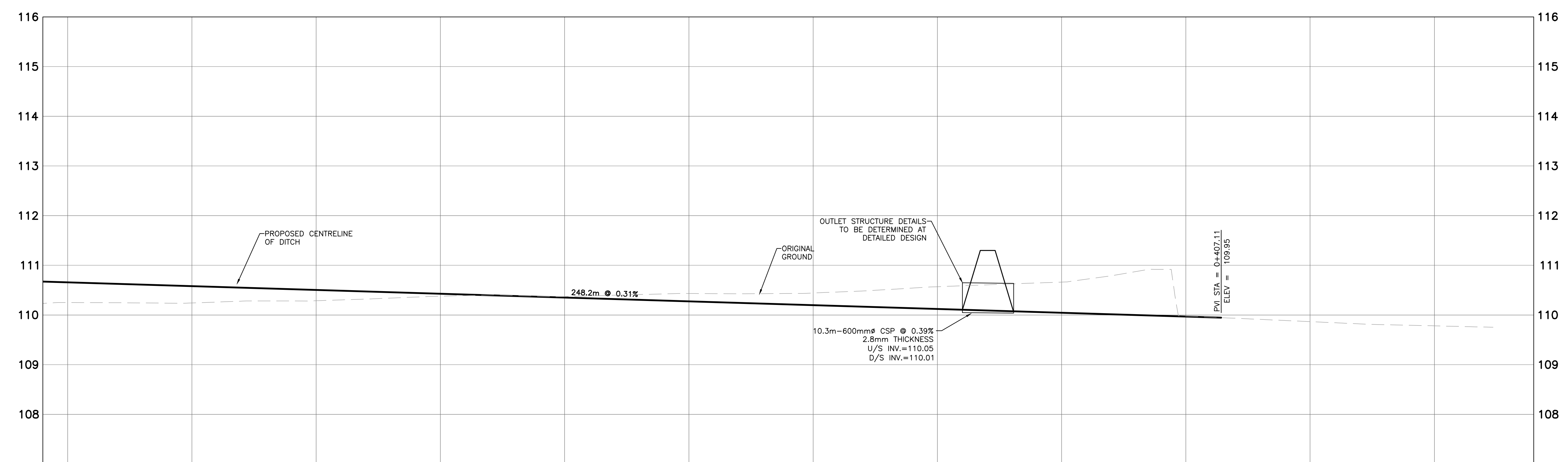
**T & L CARROLL HOLDINGS INC.**  
**CARROLL INDUSTRIAL SUBDIVISION**  
 3160 CARP ROAD  
 CITY OF OTTAWA

**PLAN AND PROFILE**  
 STA 0+000 TO STA 0+175

PROJECT No.	24104
SURVEY	LIDAR
DATED	MARCH 2025
DWG. No.	24104-P4



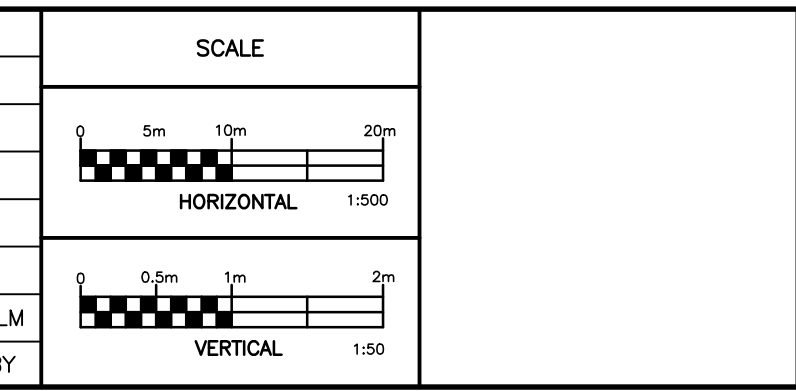
SWM FACILITY



PROPOSED ROAD ELEVATION	110.66	110.56	110.50	110.43	110.35	110.27	110.20	110.12	110.05	109.97	PROPOSED ROAD ELEVATION		
PROPOSED LEFT DITCH GRADE											PROPOSED LEFT DITCH GRADE		
PROPOSED RIGHT DITCH GRADE											PROPOSED RIGHT DITCH GRADE		
EXISTING R.O.W ELEVATION	110.25	110.24	110.29	110.39	110.37	110.45	110.44	110.57	110.66	109.98	109.87	109.78	EXISTING R.O.W ELEVATION
CHAINAGE	0+175	0+200	0+225	0+250	0+275	0+300	0+325	0+350	0+375	0+400	0+425	0+450	CHAINAGE

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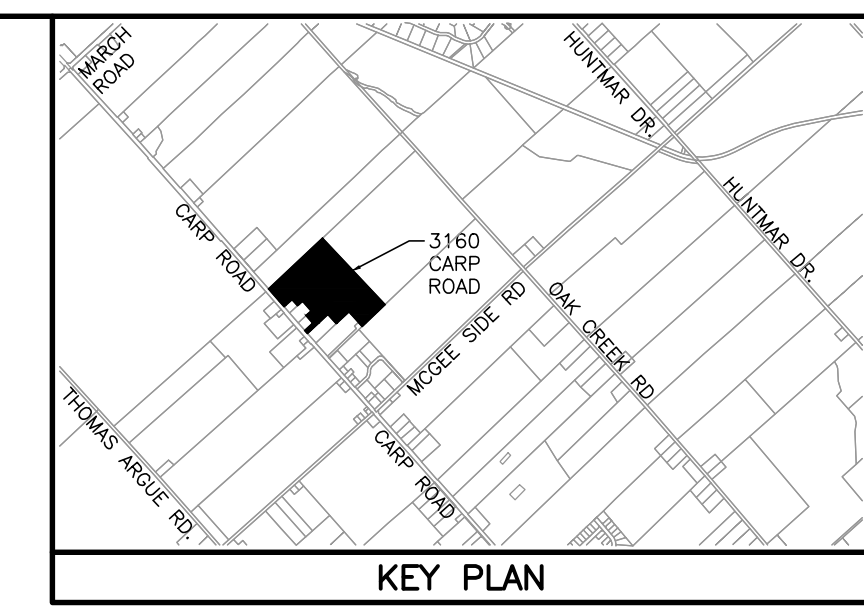
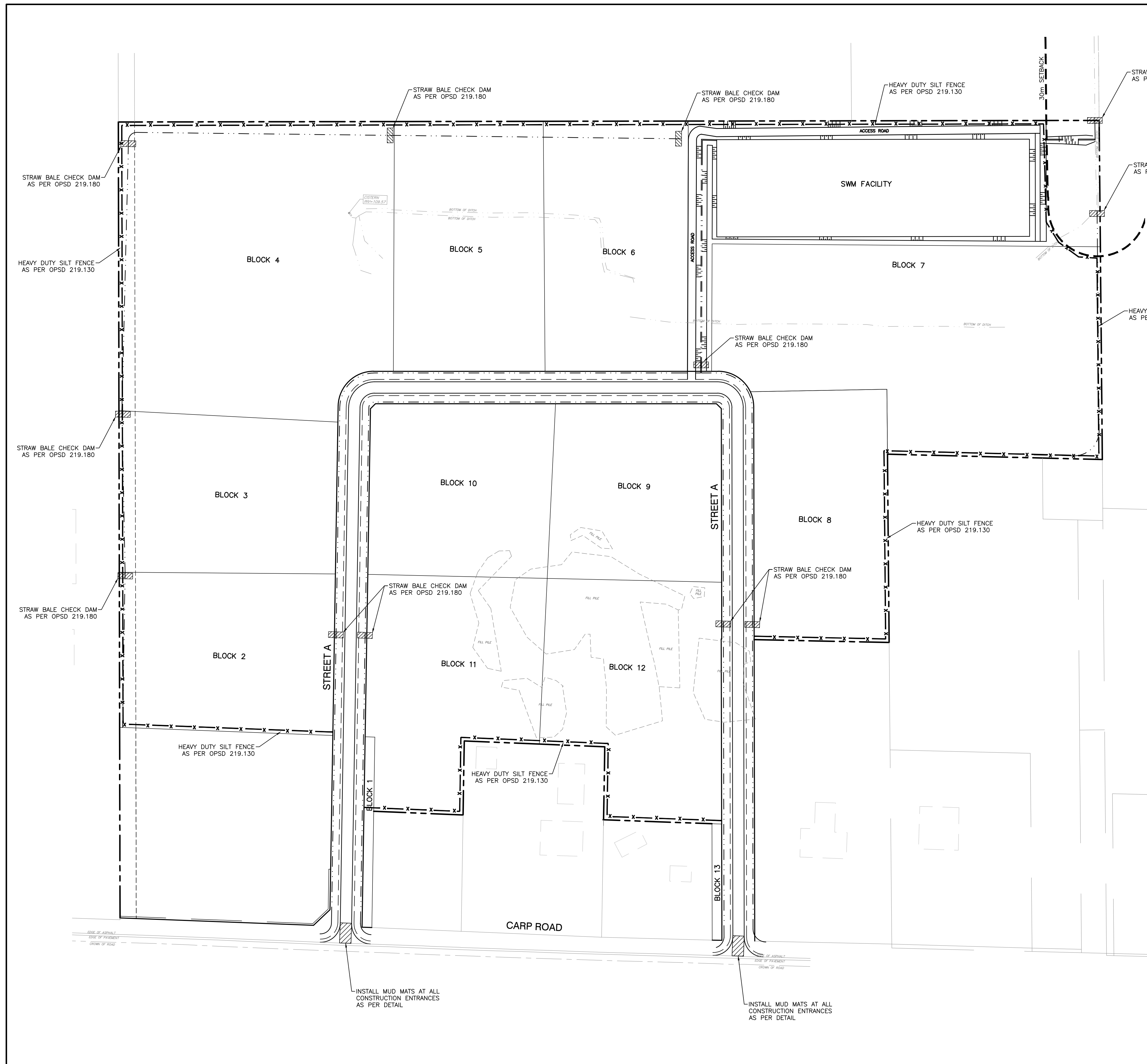
**Robinson**  
Land Development  
 350 Palladium Drive  
Ottawa, ON K2V 1A8  
(613) 592-6060 rcii.com

DESIGN	JHB
CHECKED	BLM
DRAWN	JHB
CHECKED	CC
APPROVED	BLM

**T & L CARROLL HOLDINGS INC.**  
**CARROLL INDUSTRIAL SUBDIVISION**  
 3160 CARP ROAD  
 CITY OF OTTAWA

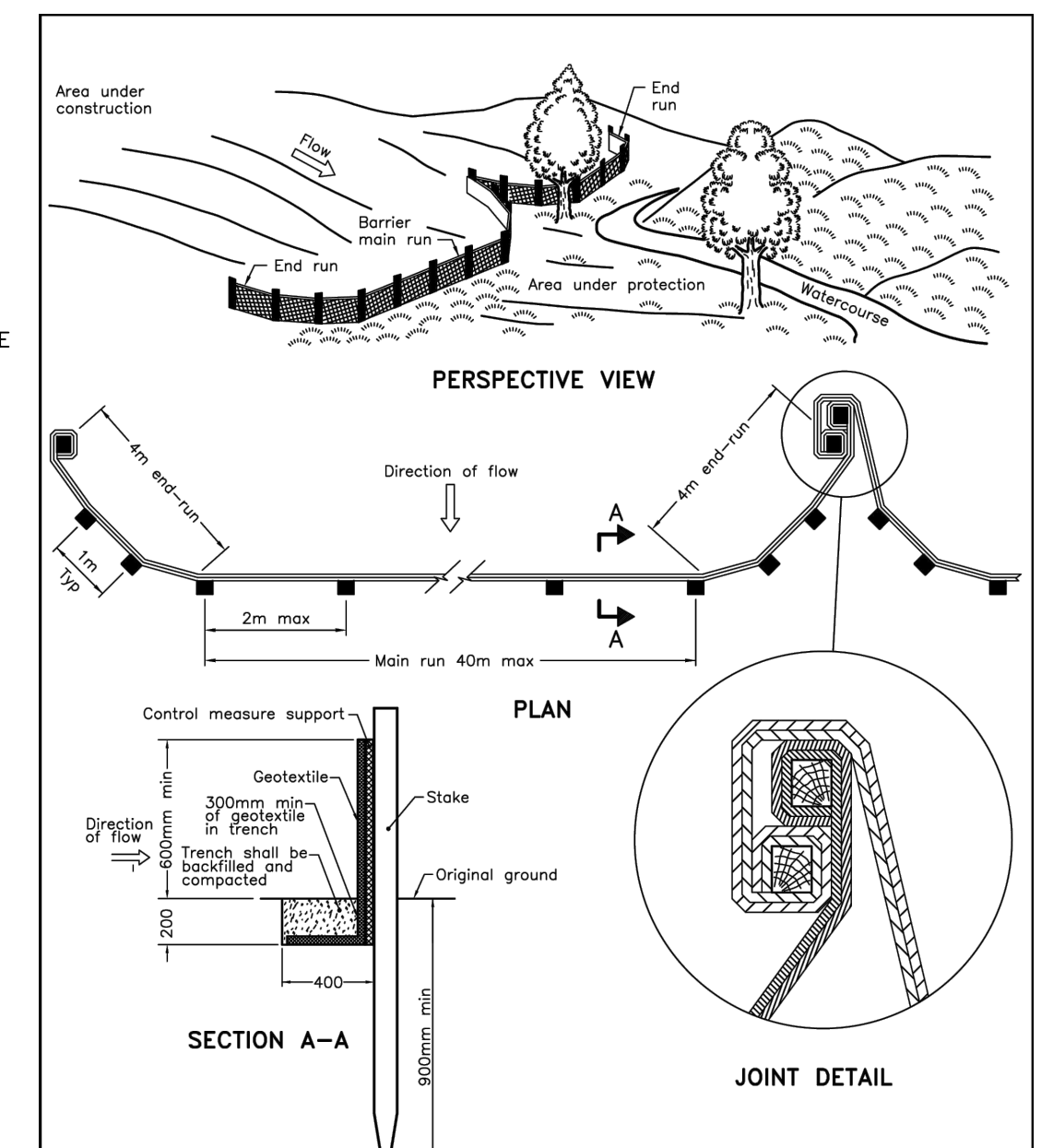
**PLAN AND PROFILE**  
**STA 0+175 TO STA 0+350**

PROJECT No.	24104
SURVEY	LIDAR
DATED	MARCH 2025
DWG. No.	24104-P5



**LEGEND**

- PROPERTY BOUNDARY
- - - 30m BLANDING'S TURTLE SETBACK
- EXISTING DITCH
- - - PROPOSED DITCH
- x - x - HEAVY DUTY SILT FENCE
- ▨ STRAW BALE CHECK DAM

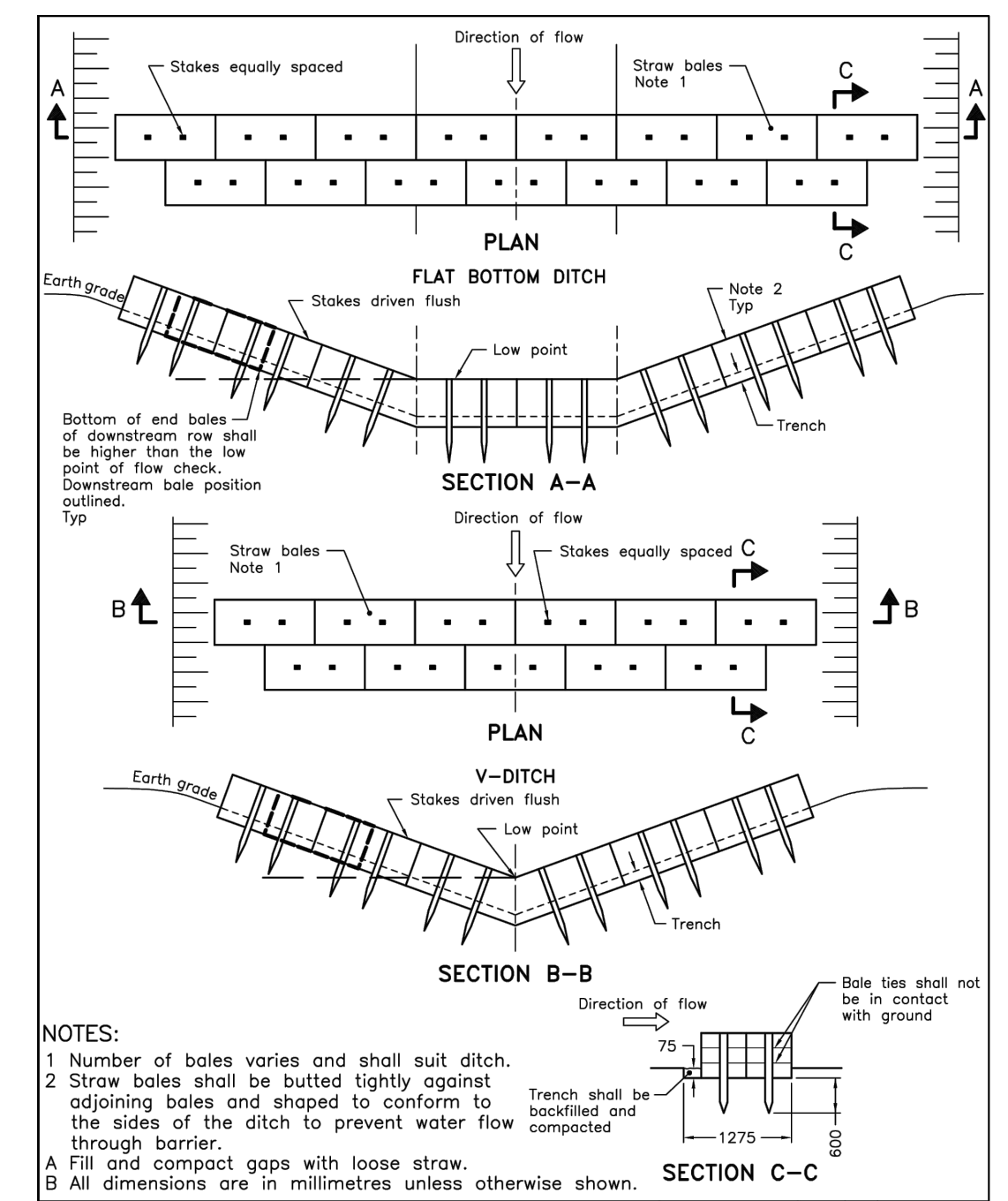


NOTE:  
A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2021 Rev 3

**HEAVY-DUTY SILT FENCE BARRIER**

OPSD 219.130



NOTE:  
1 Number of bales varies and shall suit ditch.  
2 Straw bales shall be butted tightly against adjoining bales and shaped to conform to the sides of the ditch to prevent water flow through barrier.  
A Fill and compact gaps with loose straw.  
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2021 Rev 3

**STRAW BALE FLOW CHECK DAM**

OPSD 219.180

NOTES:  
1. SEDIMENT SHALL BE CLEANED FROM ROADWAYS AS REQUIRED.

**MUD MAT DETAIL**  
N.T.S.

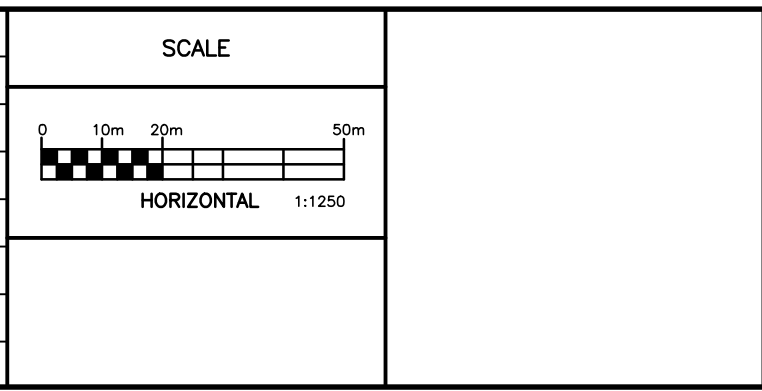
- NOTES:**
- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE ULTIMATE RECEIVING WATERCOURSE DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
  - LIMIT THE EXTENT OF EXPOSED SOILS AT ANY GIVEN TIME.
  - EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATION HAS BEEN RE-ESTABLISHED IN ALL DISTURBED AREAS. RE-VEGETATE DISTURBED AREAS AS SOON AS POSSIBLE.
  - STOCKPILE SOIL AWAY (15 METRES OR GREATER) FROM WATERCOURSES, DRAINAGE FEATURES AND TOP OF STEEP SLOPES.
  - A HEAVY DUTY SILT FENCE BARRIER SHALL BE INSTALLED AS PER OPSD 219.130 WHERE INDICATED AND MAINTAINED AS REQUIRED.
  - STRAW BALE CHECK DAMS TO BE INSTALLED AS PER OPSD 219.180 WHERE INDICATED AND MAINTAINED AS REQUIRED.
  - DURING ACTIVE CONSTRUCTION PERIODS, VISUAL INSPECTIONS SHALL BE UNDERTAKEN ON A WEEKLY BASIS AND AFTER MAJOR STORM EVENTS (3-25MM RAIN IN 24 HOUR PERIOD) ON SEDIMENT CONTROL BARRIERS AND ANY DAMAGE REPAIRED IMMEDIATELY.
  - EROSION AND SEDIMENT CONTROL BARRIERS SHALL ALSO BE ASSESSED (AND REPAIRED AS REQUIRED) FOLLOWING SIGNIFICANT SNOWMELT EVENTS.
  - VISUAL INSPECTIONS SHALL ALSO BE UNDERTAKEN IN ANTICIPATION OF LARGE STORM EVENTS (OR A SERIES OF RAINFALL AND/OR SNOWMELT DAYS) THAT COULD POTENTIALLY YIELD SIGNIFICANT RUNOFF VOLUMES. CARE SHALL BE TAKEN TO PREVENT DAMAGE TO EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION OPERATIONS.
  - IN SOME CASES, BARRIERS MAY BE REMOVED TEMPORARILY TO ACCOMMODATE THE CONSTRUCTION OPERATIONS. THE AFFECTED BARRIERS SHALL BE REINSTATED IMMEDIATELY AFTER CONSTRUCTION OPERATIONS ARE COMPLETED.
  - SEDIMENT CONTROL DEVICES SHALL BE CLEANED OF ACCUMULATED SEDIMENTATION AS REQUIRED AND REPLACED AS NECESSARY.
  - DURING THE COURSE OF CONSTRUCTION, IF THE ENGINEER BELIEVES THAT ADDITIONAL PREVENTION METHODS ARE REQUIRED TO CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL MEASURES, AS REQUIRED, TO THE SATISFACTION OF THE ENGINEER.
  - CONSTRUCTION AND MAINTENANCE REQUIREMENTS FOR EROSION AND SEDIMENT CONTROLS ARE TO COMPLY WITH OPS 805.
  - CONTRACTOR SHALL FOLLOW RECOMMENDATIONS FROM EIS REPORT DATED JUNE 21, 2024.
  - CONSTRUCTION EQUIPMENT SHALL BE PROPERLY MAINTAINED. MAINTENANCE ON CONSTRUCTION EQUIPMENT WITH RESPECT TO REFUELING, WASHING AND FLUID CHANGES SHOULD NOT TAKE PLACE WITHIN 30 METRES OF ANY SURFACE WATER FEATURES.
  - EMERGENCY SPILL KITS SHALL BE LOCATED ON-SITE AND CONSTRUCTION CREWS SHALL BE FULLY TRAINED ON THE USE OF CLEAN-UP MATERIALS IN ORDER TO MINIMIZE IMPACTS OF ANY ACCIDENTAL SPILLS. THE AREA SHALL BE MONITORED FOR LEAKAGE AND IN THE EVENT OF A MINOR SPILL, ACTIVITY SHOULD BE HALTED AND CORRECTIVE MEASURES SHALL BE IMPLEMENTED. ANY SPILLS SHALL BE IMMEDIATELY REPORTED TO THE MESP SPILLS ACTION CENTRE.

**NOTES**

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PROPERTY BOUNDARIES DERIVED FROM DRAFT PLAN OF SUBDIVISION, PART OF LOTS 11 AND 12, CONCESSION 2, GEOGRAPHIC TOWNSHIP OF HUNTLEY, CITY OF OTTAWA, DATED FEBRUARY 2, 2025, PREPARED BY EGIS SURVEYING INC. NAD83 (ORIGINAL) MTM ZONE 9 COORDINATE SYSTEM.

NO.	REVISION DESCRIPTION	DATE	BY
1	ISSUED FOR REVIEW	06/03/25	BLM



**Robinson Land Development**

350 Palladium Drive  
Ottawa, ON K2V 1A8  
(613) 592-6060 roii.com

DESIGN	JHB
CHECKED	BLM
DRAWN	JHB
CHECKED	CC
APPROVED	BLM

**T & L CARROLL HOLDINGS INC.**

**CARROLL INDUSTRIAL SUBDIVISION**

**3160 CARP ROAD**

**CITY OF OTTAWA**

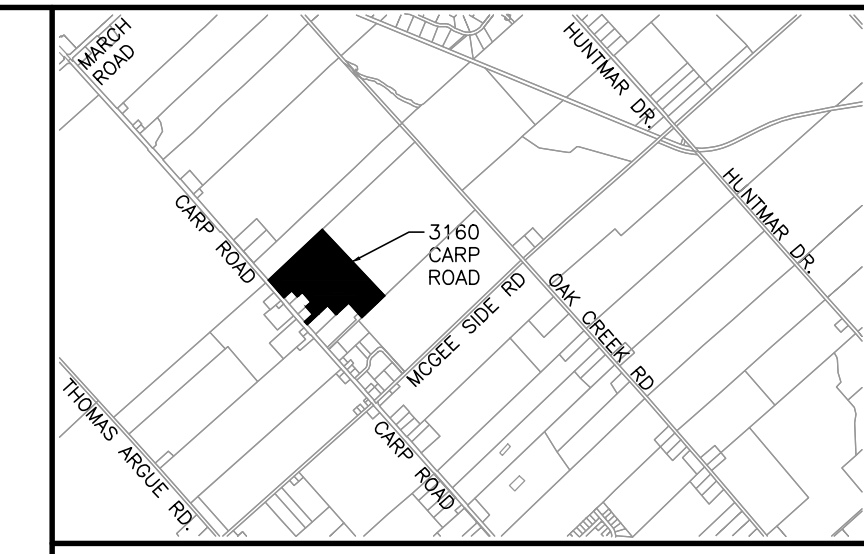
**EROSION AND SEDIMENT CONTROL PLAN**

PROJECT No. 24104

SURVEY LIDAR

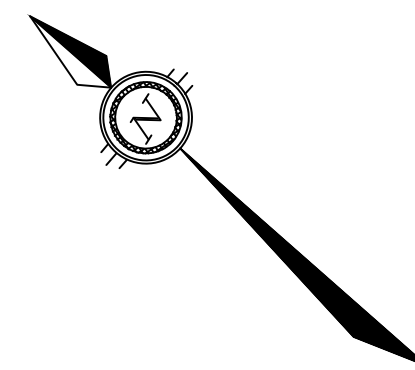
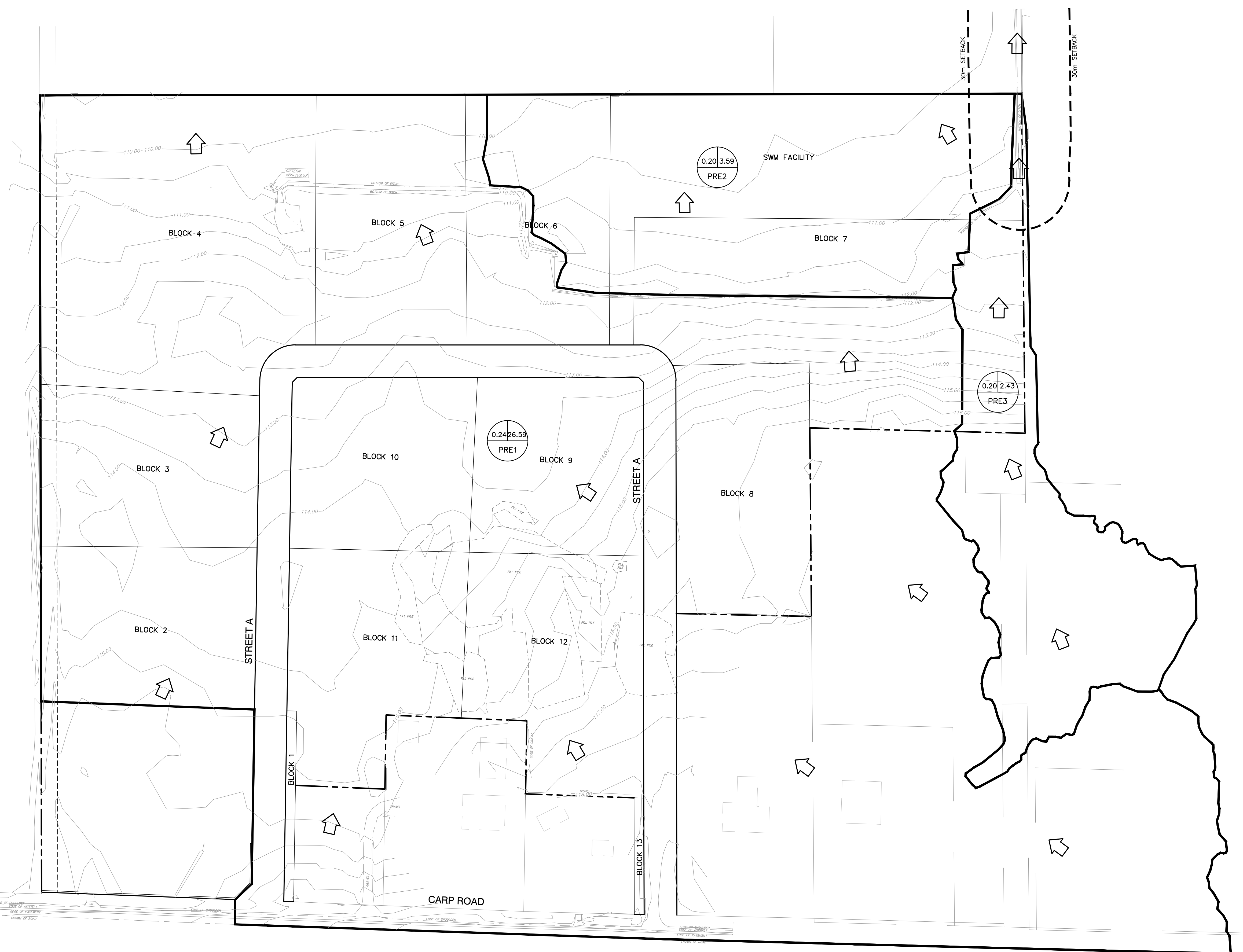
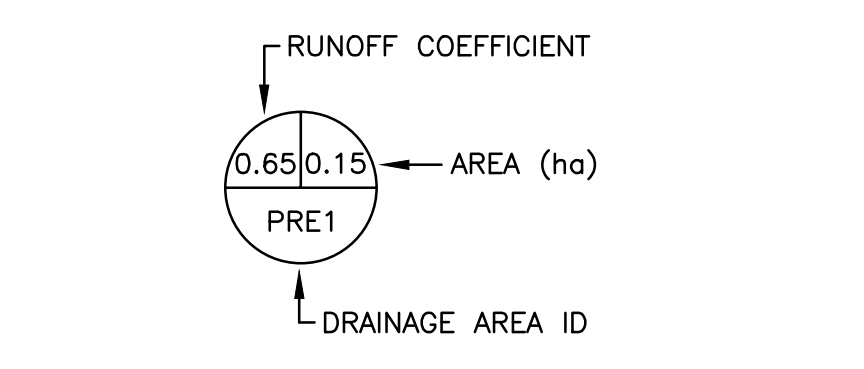
DATED MARCH 2025

DWG. No. 24104-ESC



KEY PLAN

- LEGEND**
- 140.00 EXISTING CONTOUR
  - 30m BLANDING'S TURTLE SETBACK
  - EXISTING DITCH
  - PRE-DEVELOPMENT DRAINAGE BOUNDARY
  - PRE-DEVELOPMENT FLOW DIRECTION

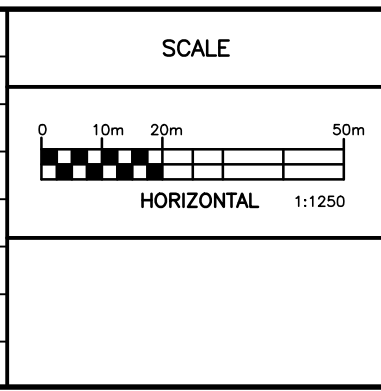


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NO.	REVISION DESCRIPTION	DATE	BY
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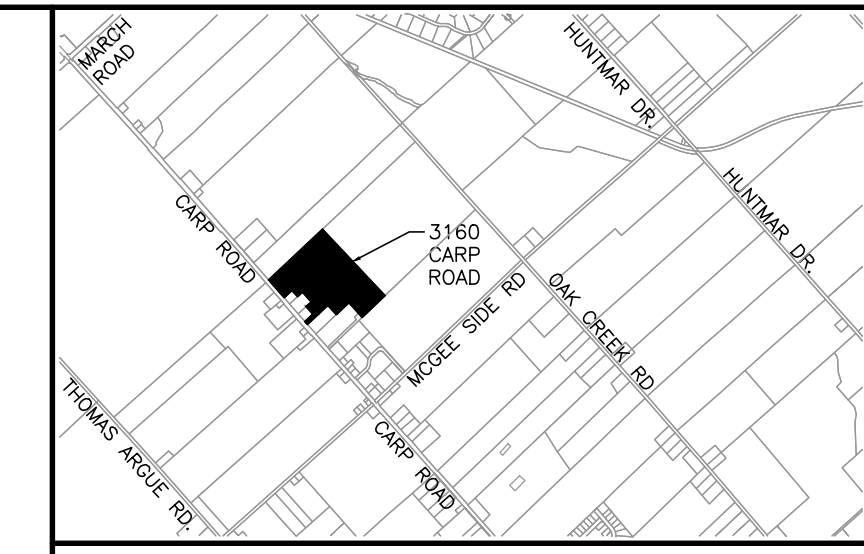
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CHECKED	BLM
DRAWN	JHB
CHECKED	CC
APPROVED	BLM

**T & L CARROLL HOLDINGS INC.**

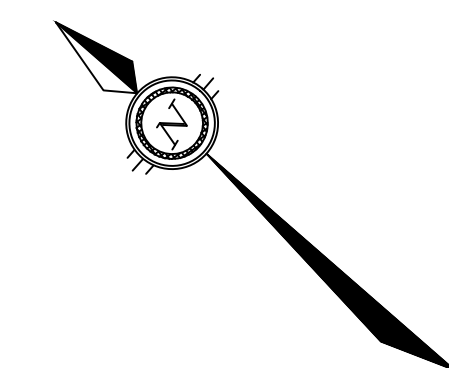
**CARROLL INDUSTRIAL SUBDIVISION**  
3160 CARP ROAD  
CITY OF OTTAWA

**PRE-DEVELOPMENT DRAINAGE AREA PLAN**

PROJECT No.	24104
SURVEY	LIDAR
DATED	MARCH 2025
DWG. No.	24104-PRE1



KEY PLAN



**LEGEND**

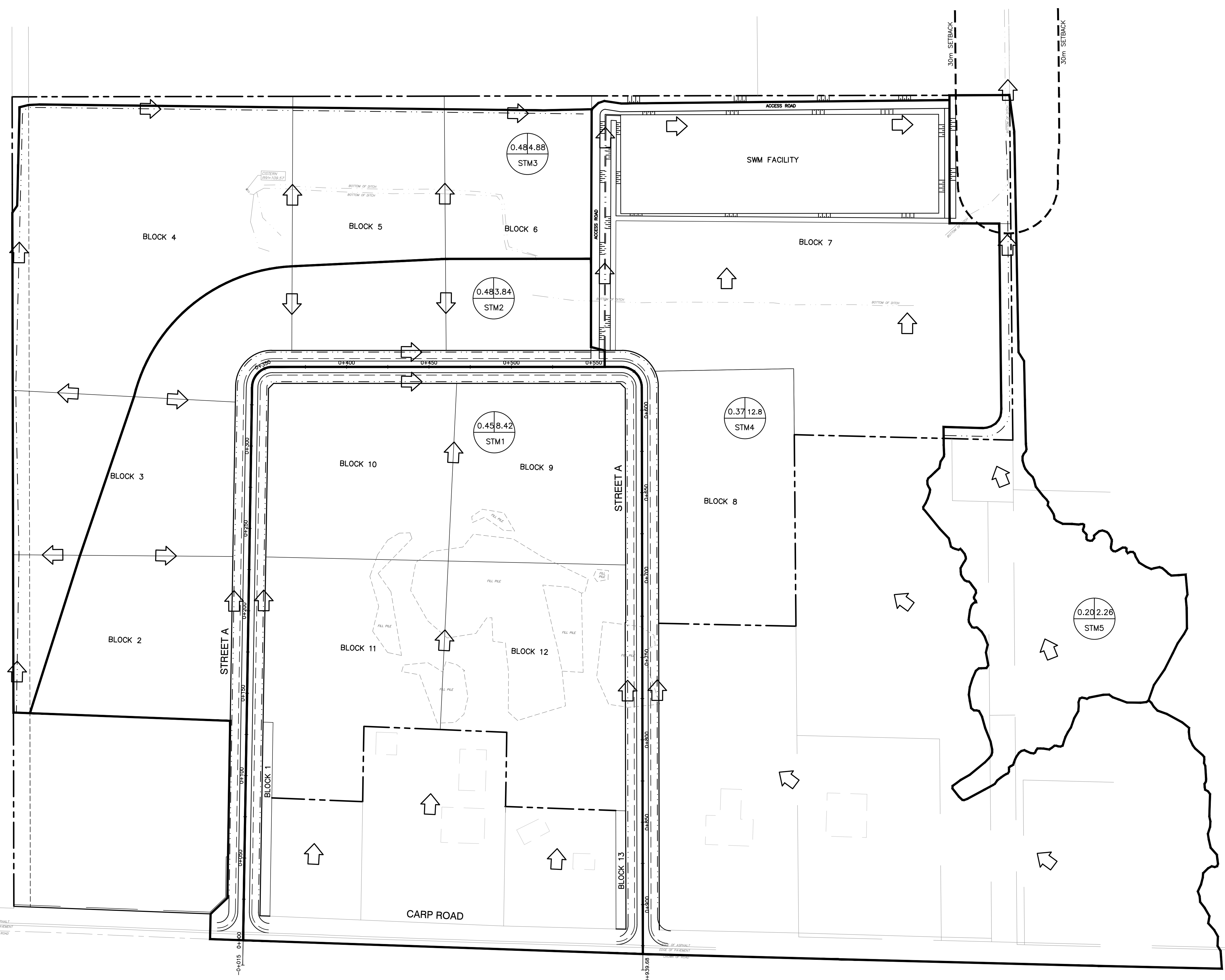
- 140.00 EXISTING CONTOUR
- 30m BLANDING'S TURTLE SETBACK
- EXISTING DITCH
- PROPOSED DITCH
- STORM DRAINAGE AREA BOUNDARY
- POST-DEVELOPMENT FLOW DIRECTION

**RUNOFF COEFFICIENT**

**AREA (ha)**

**STORM DRAINAGE AREA ID**

0.65 | 0.15  
STM1

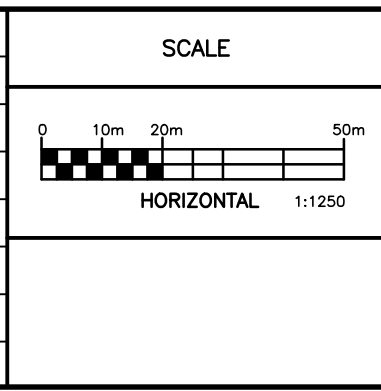


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CARROLL INDUSTRIAL SUBDIVISION  
3160 CARP ROAD  
CITY OF OTTAWA

POST-DEVELOPMENT  
DRAINAGE AREA PLAN

PROJECT No.	24104
SURVEY	LIDAR
DATED	MARCH 2025
DWG. No.	24104-STM1