CRAIGLEITH REGIONAL

STORMWATER MANAGEMENT IMPROVEMENTS

TOWN OF THE BLUE MOUNTAINS

COUNTY OF GREY

This Drawing is For INFORMATION ONLY

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<u>MUNICIPALITY</u>

DEVELOPER

TITLE DRAWING OVERALL PLAN C101 C102.A WATERCOURSE 9 TO WATERCOURSE 8 DIVERSION CHANNEL GRADING AND EROSION & SEDIMENT CONTROL PLAN WATERCOURSE 7 DIVERSION CHANNEL GRADING AND EROSION & C102.B SEDIMENT CONTROL PLAN WATERCOURSE 7 DIVERSION CHANNEL GRADING AND EROSION & C102.C SEDIMENT CONTROL PLAN (LAKESHORE ROAD) WATERCOURSE 8 GRADING AND EROSION & SEDIMENT CONTROL PLAN C102.D C102.E GRADING CROSS SECTION A TO F C102.F GRADING CROSS SECTION G TO K C103.A LAKESHORE ROAD CULVERT CROSSING PLAN AND SECTIONS C103.B GEORGIAN TRAIL CULVERT CROSSING PLAN AND SECTIONS C103.C HIGHWAY 26 CROSSING PLAN C103.D HWY 26 CULVERT CROSSING SECTIONS CONSTRUCTION NOTES & STANDARD DETAILS C104 HWY 26 CONSTRUCTION PHASING SECTIONS C105.A C106.A HWY 26 TEMPORARY LANE REALIGNMENT PHASE 1

Town of Blue Mountains Planning and Development Services **Accepted For Construction** PARKBRIDGE LIFESTYLE COMMUNITIES INC. 70 HURON STREET COLLINGWOOD, ONTARIO, L9Y 3Z1

TOWN OF THE BLUE MOUNTAINS

32 MILL STREET, BOX 310

THORNBURY, ONTARIO, NOH 2PO

EDEN OAK 1443 HURONTARIO STREET MISSISSAUGA, ONTARIO, L5G 3H3

MACPHERSON BUILDERS (BLUE MOUNTAIN) LTD 5525 EGLINTON AVENUE WEST, SUITE 128 TORONTO, ONTARIO, M9C 5K5

DEVELOPER'S ENGINEER

21-Oct-2024



70 Huron Street, Suite 100 COLLINGWOOD, ON, L9Y 4L4 705-446-3510 WWW.CFCROZIER.CA

PR. FIRE HYDRANT & VALVE PR. WATER VALVE CHAMBER

MASTER LEGEND

EX. CONTOUR

EX. STORM CATCHBASIN MANHOLE

EX. BENCHMARK NUMBER & LOCATION

EX. BOREHOLE NUMBER & LOCATION

EX. BELL PEDESTAI

EX. HYDRO POLE

EX. SIGN

EX. BUILDING

EX. LIGHT STANDARD

<u>EXISTING FEATURES</u> (EX.)

- POPULATION (3.5 p.p.u.)

RUNOFF COEFFICIENT

PR. NAME SIGN ____x ___x ___x ___x ___

| | | | | |

PR. TREE PRESERVATION AREA

PR. TOPSOIL STOCKPILE LOCATION

HWY 26 TEMPORARY LANE REALIGNMENT PHASE 2 W/C 9 CROSSING AT GEORGIAN TRAIL CONSTRUCTION STAGING / E&SC PLAN LAKESHORE ROAD CULVERT (750mm) CONSTRUCTION STAGING / E&SC PLAN LAKESHORE ROAD CULVERT (1800 X 1200) CONSTRUCTION STAGING / E&SC PLAN GEORGIAN TRAIL CULVERT CONSTRUCTION STAGING / E&SC PLAN HIGHWAY 26 CULVERT CONSTRUCTION STAGING / E&SC PLAN WATERCOURSE 9 TO WATERCOURSE 8 DIVERSION CHANNEL GRADING AND EROSION & SEDIMENT CONTROL PLAN WATERCOURSE 7 DIVERSION CHANNEL TREE CLEARING AND REMOVALS PLAN WATERCOURSE 7 DIVERSION CHANNEL TREE CLEARING AND REMOVALS PLAN (LAKESHORE ROAD) WATERCOURSE 8 TREE CLEARING AND REMOVALS PLAN

PR. PROPERTY LIMITS PR. ELEVATION (MATCH EX. ELEVATION) PR. STORM SEWER & MANHOLE PR. CATCHBASIN PR. DOUBLE CATCHBASIN PR. CATCHBASIN MANHOLE PR. DOUBLE CATCHBASIN MANHOLE DRAINAGE AREA (ha) PR. CURB CUT PR. CANADA POST COMMUNITY MAIL BOX PR. TRANSFORMER PR. STOP SIGN PR. NO PARKING SIGN PR. BUILDING ENVELOPE PR. STRAW BALE CHECK FLOW PR. ROCK CHECK DAM PR. SLOPE (3:1 MAX.)

C106.B

C107.A

C107.B

C107.C

C107.D

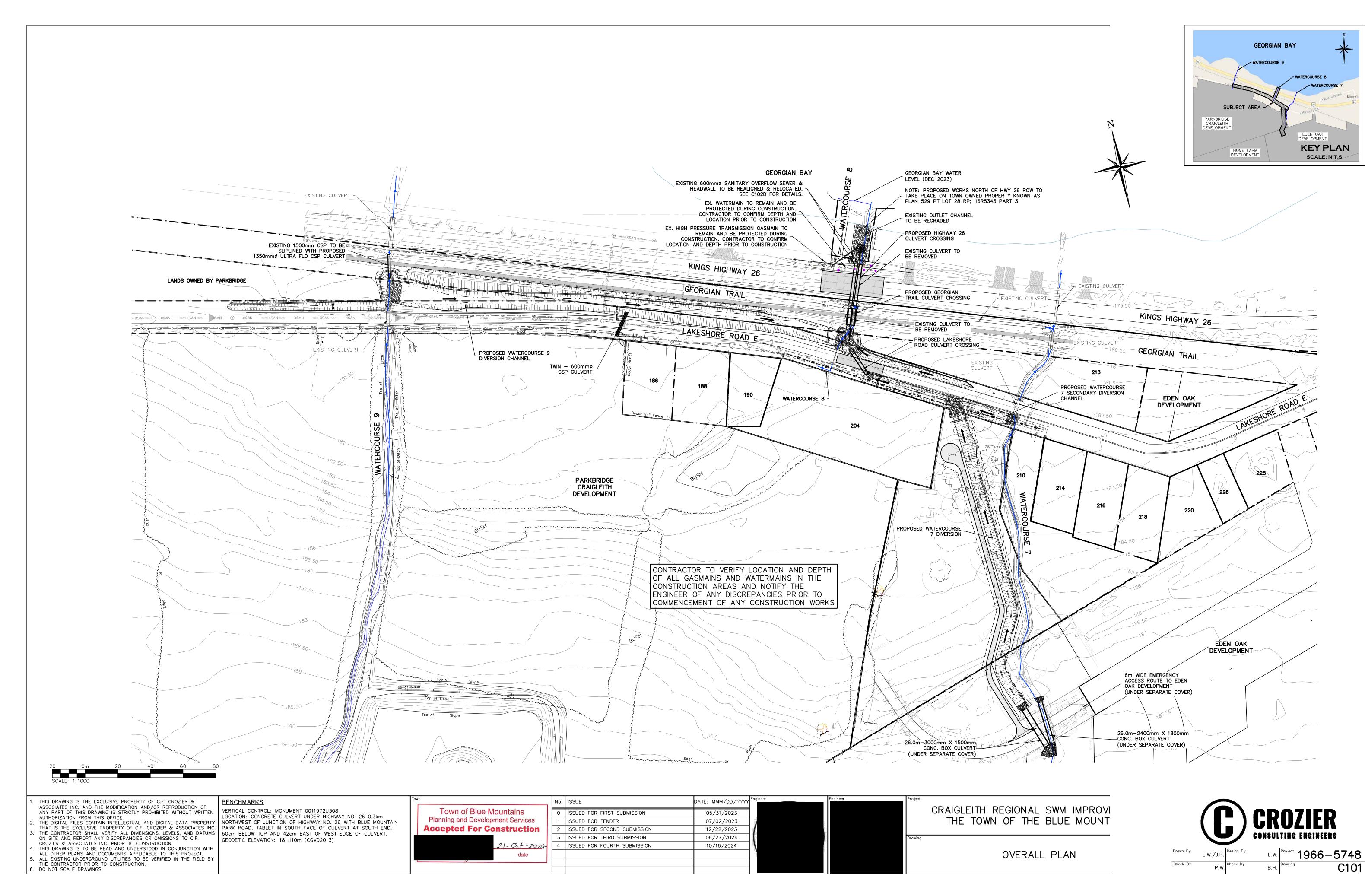
C107.E

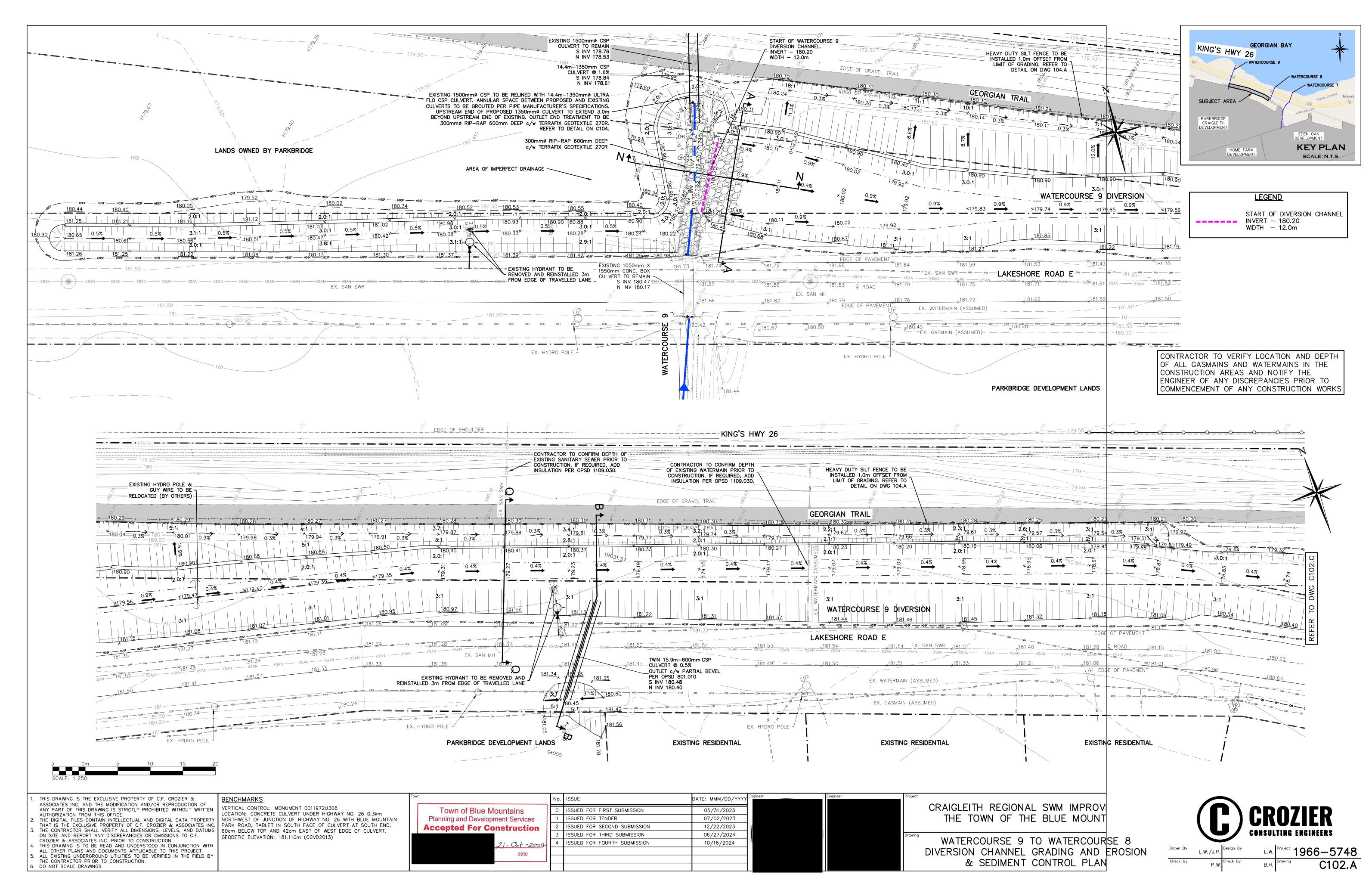
C108.A

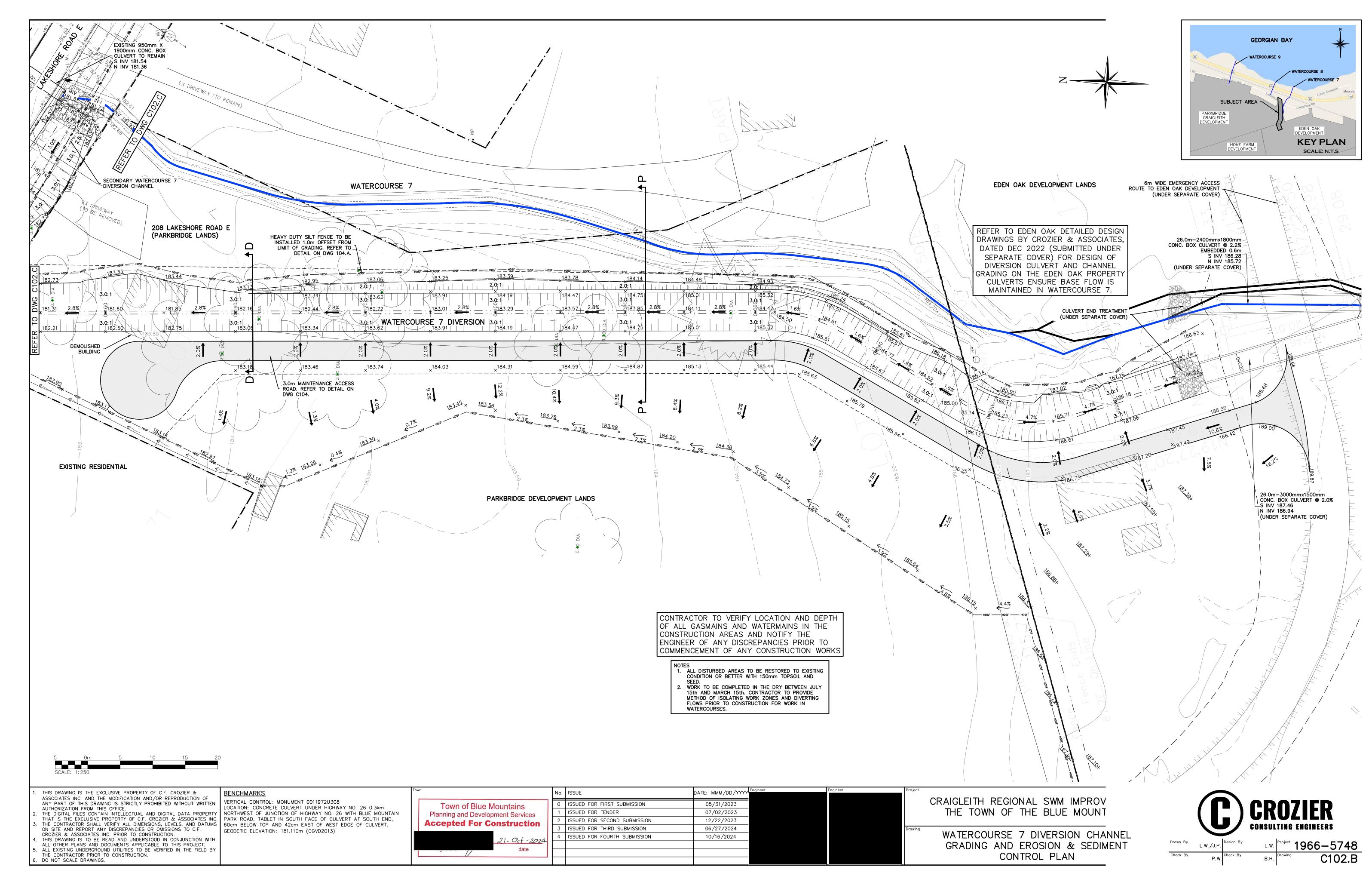
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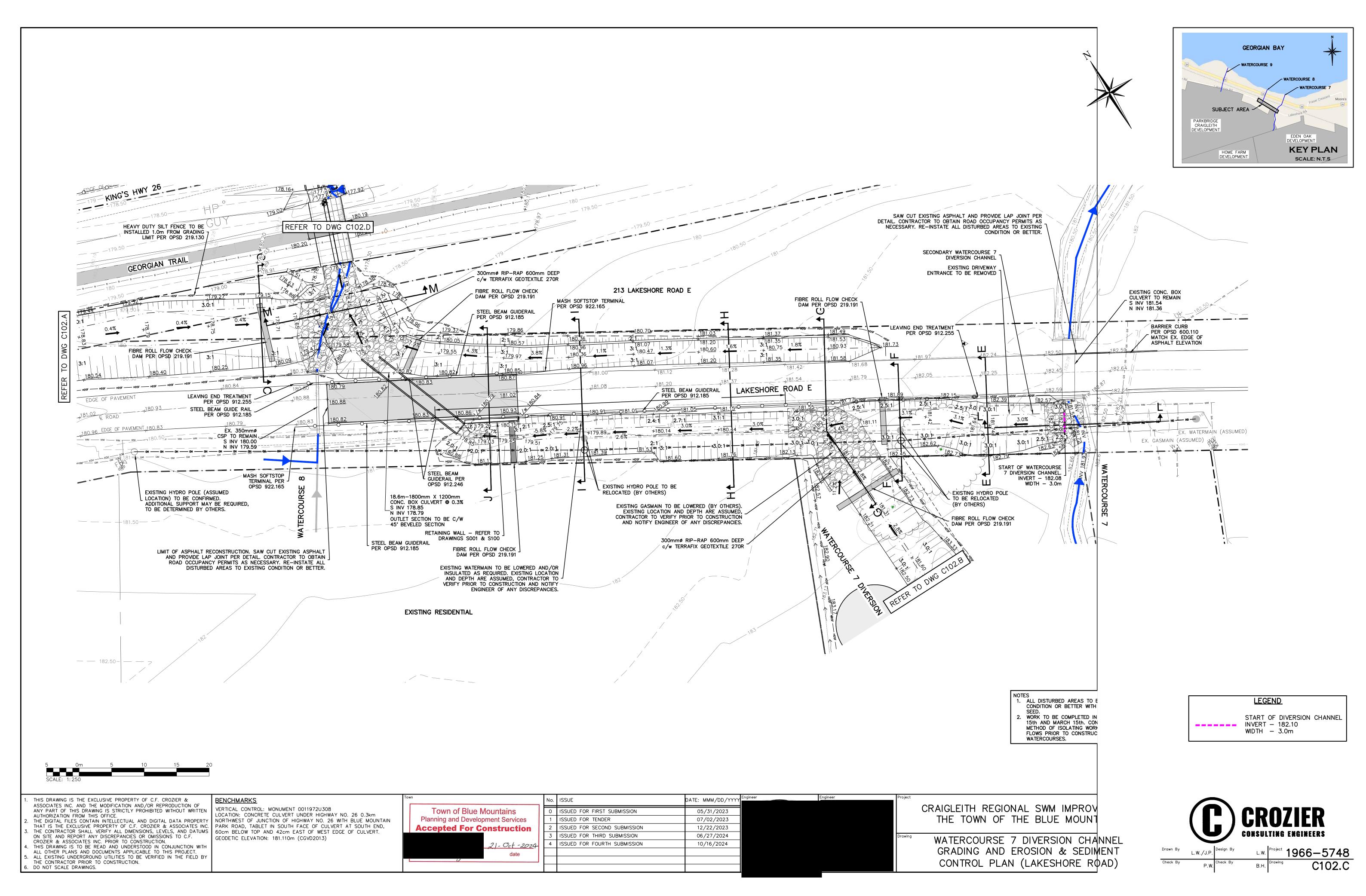
C108.C

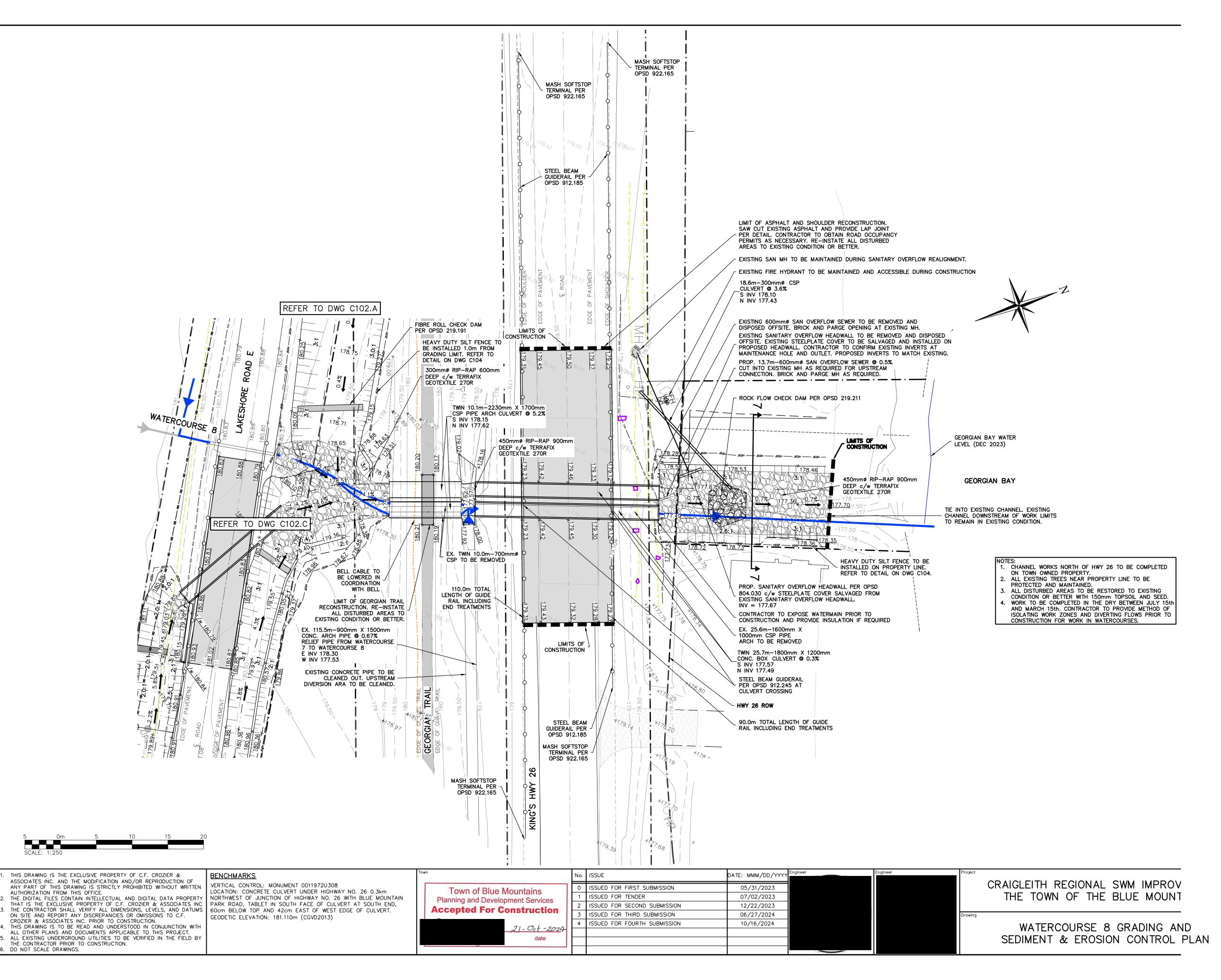
C108.D

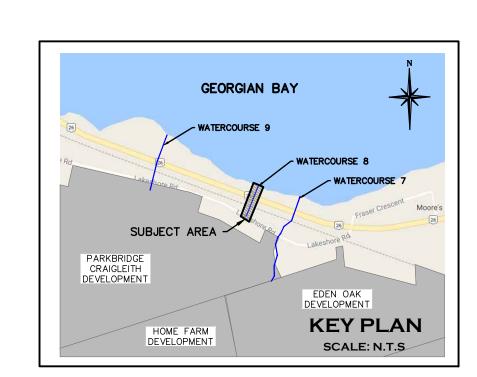


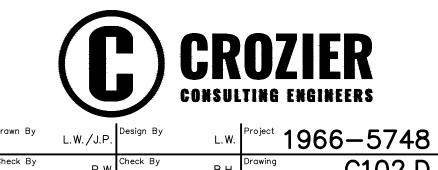


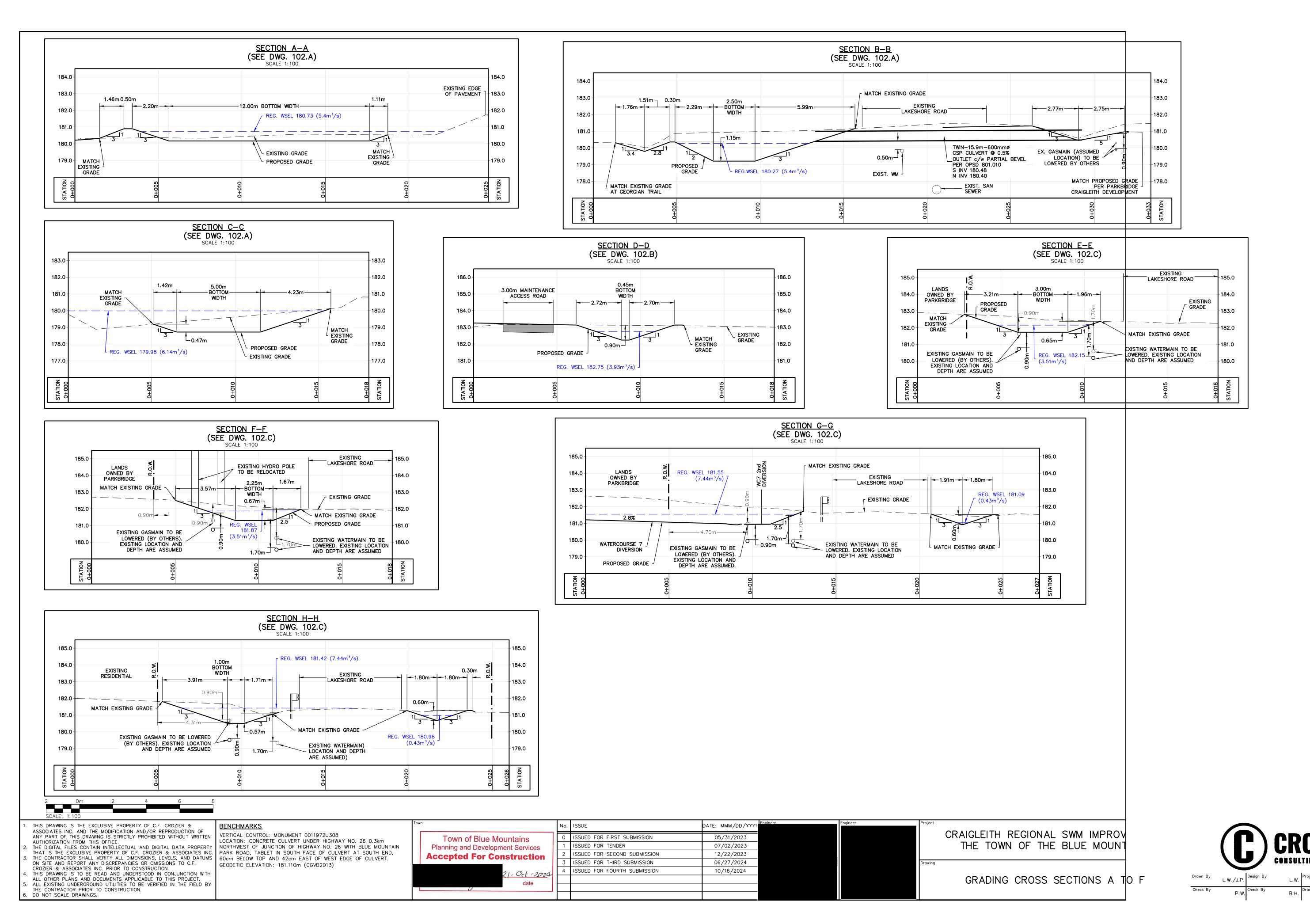


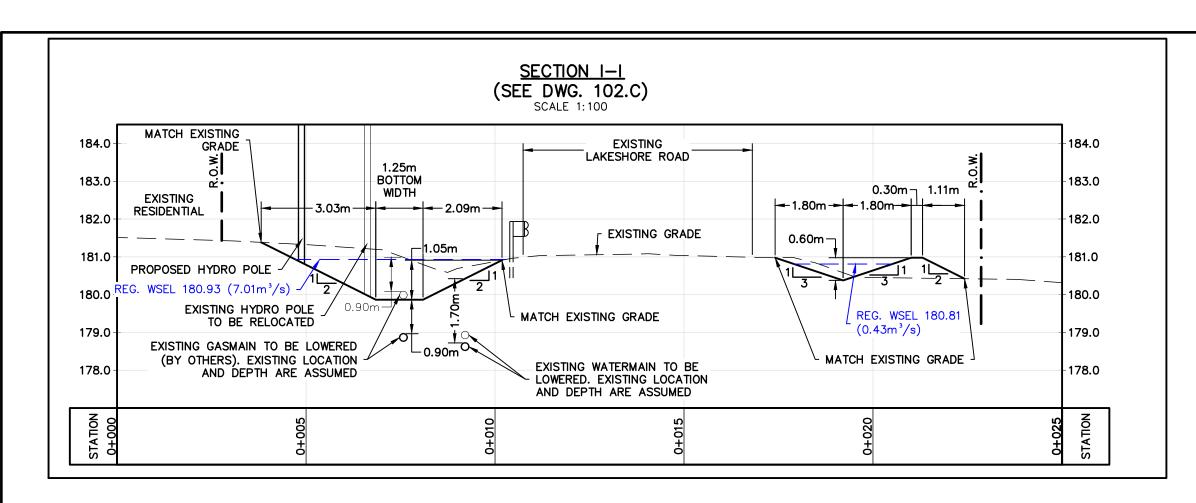


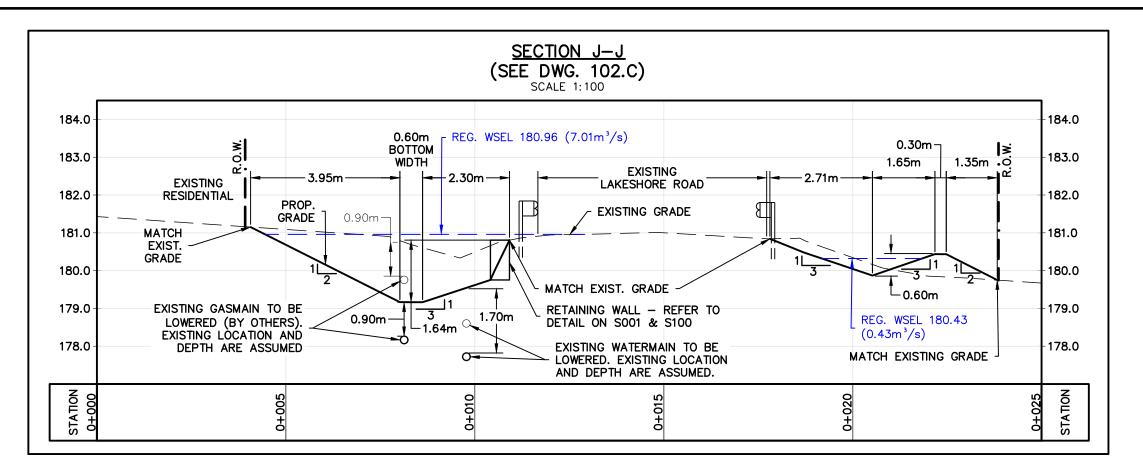


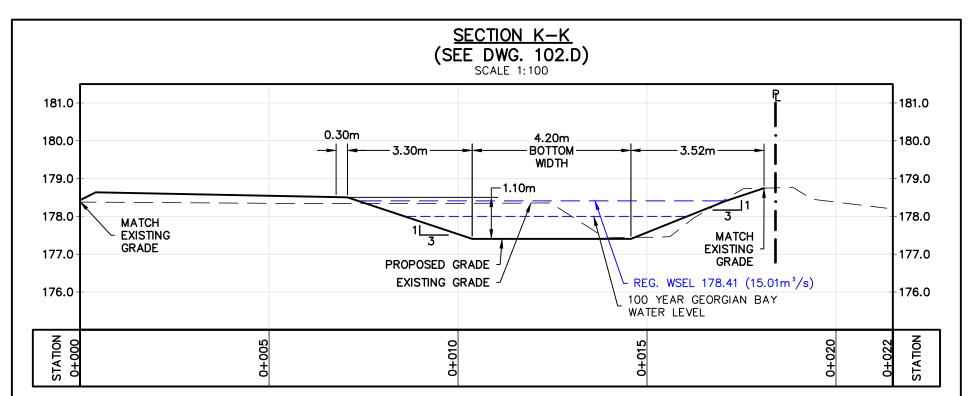


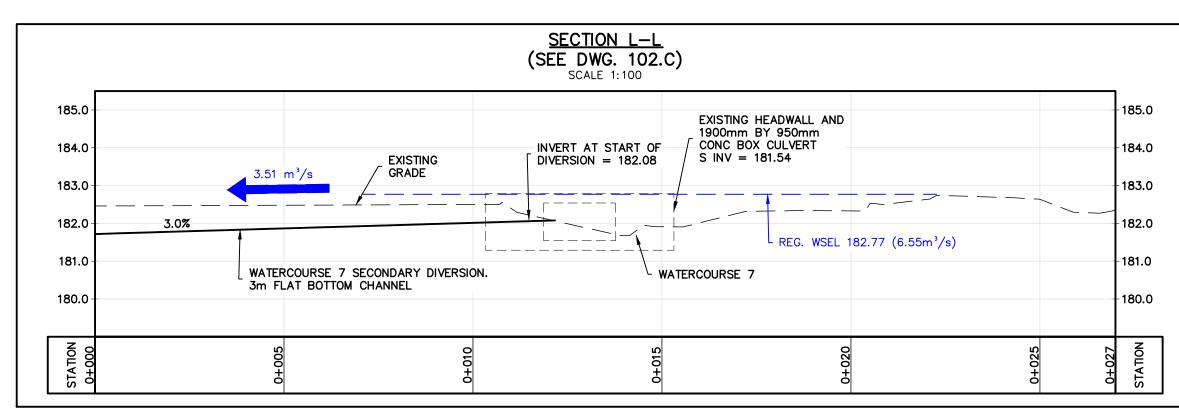


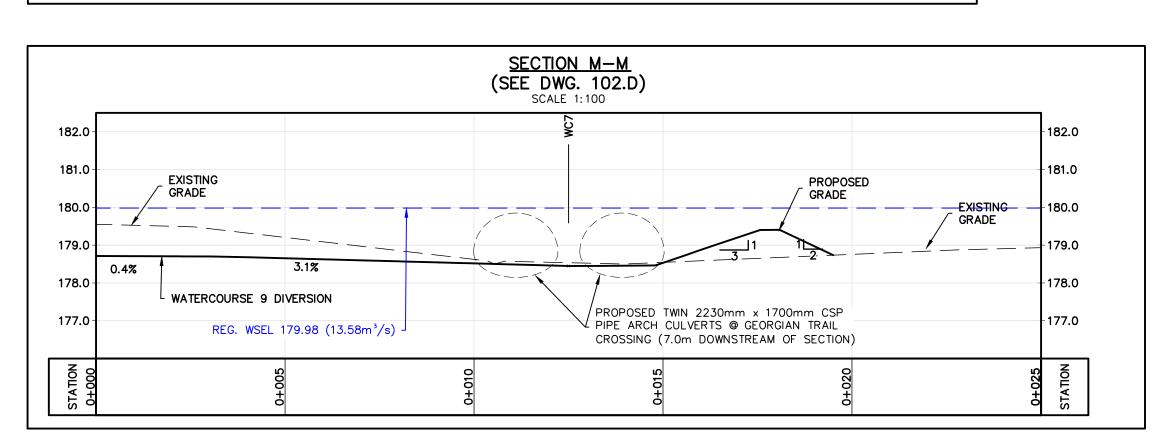


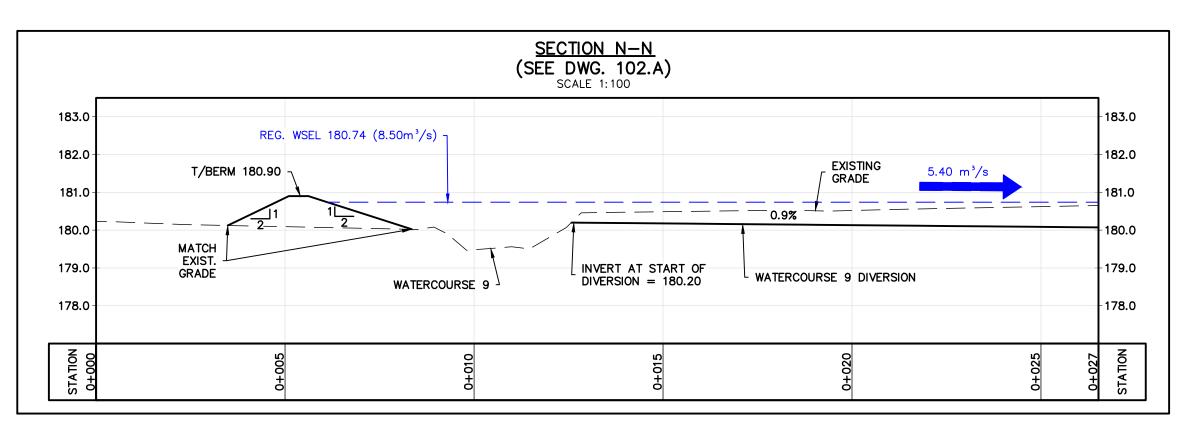


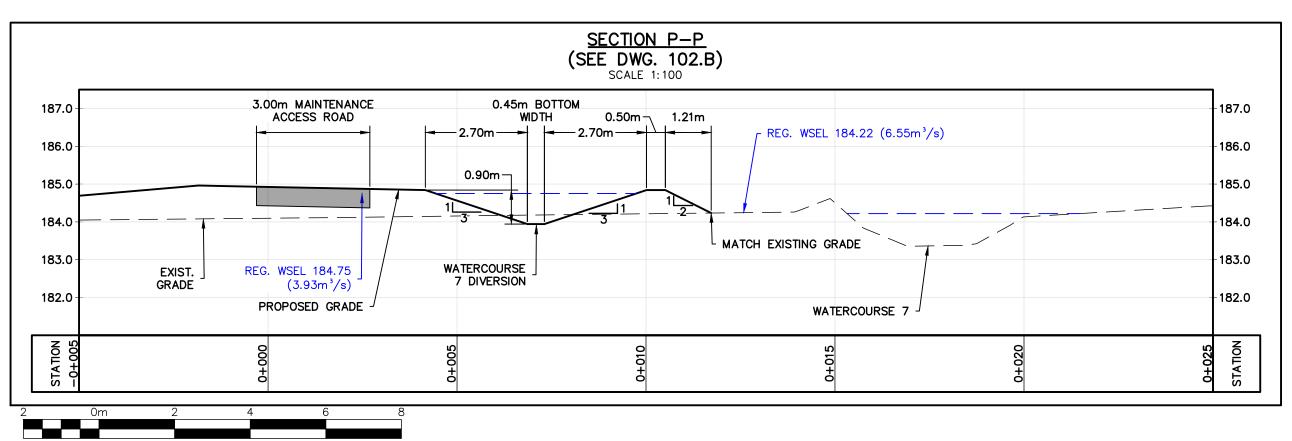


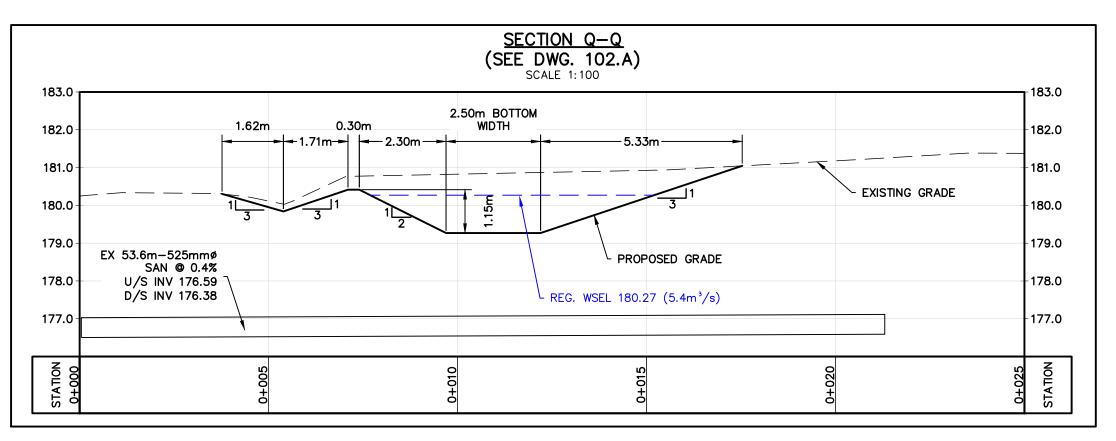












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THE CONTRACTOR PRIOR TO CONSTRUCTION.

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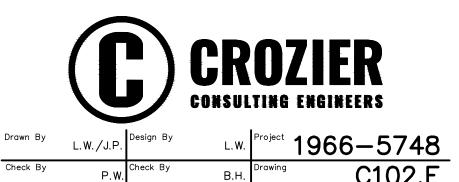
BENCHMARKS VERTICAL CONTROL: MONUMENT 0011972U308 LOCATION: CONCRETE CULVERT UNDER HIGHWAY NO. 26 0.3km NORTHWEST OF JUNCTION OF HIGHWAY NO. 26 WITH BLUE MOUNTAIN GEODETIC ELEVATION: 181.110m (CGVD2013)

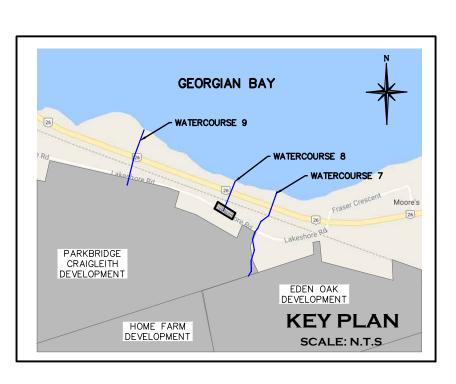
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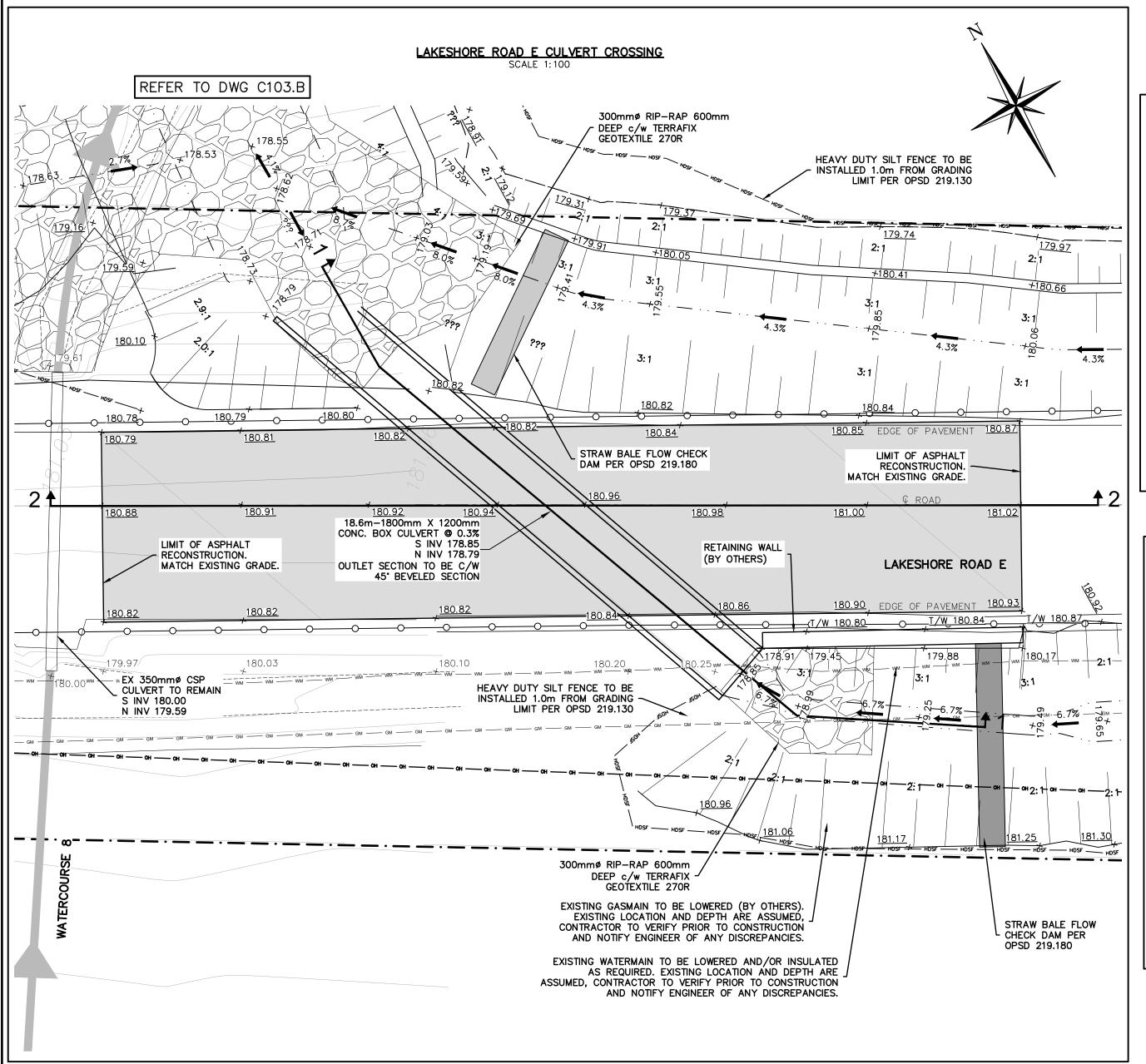
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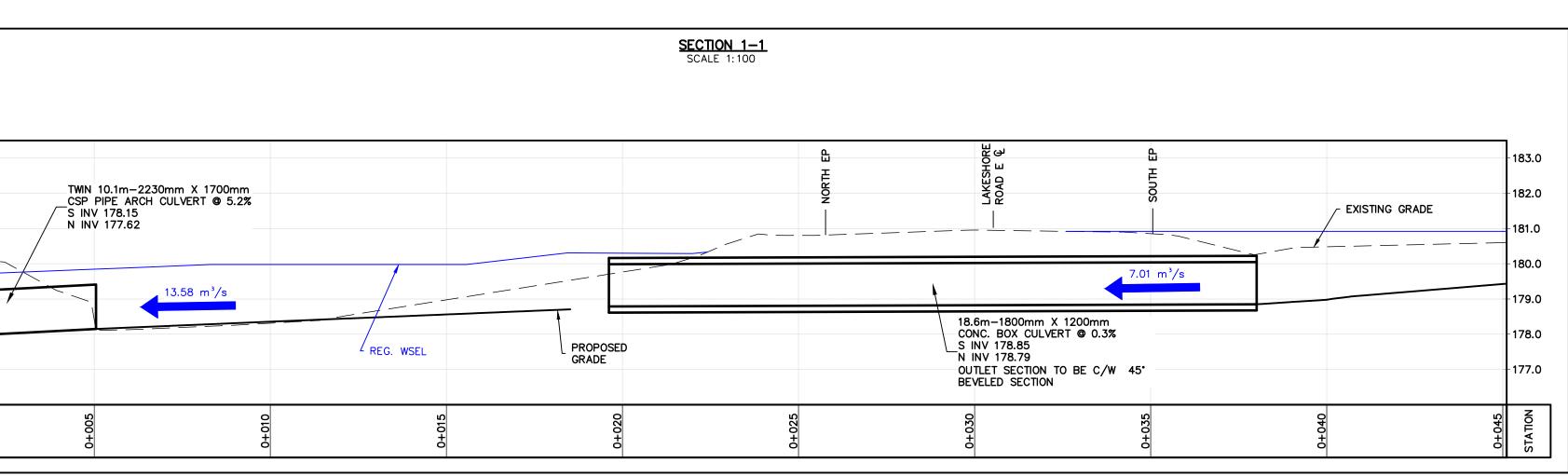
CRAIGLEITH REGIONAL SWM IMPROV THE TOWN OF THE BLUE MOUNT

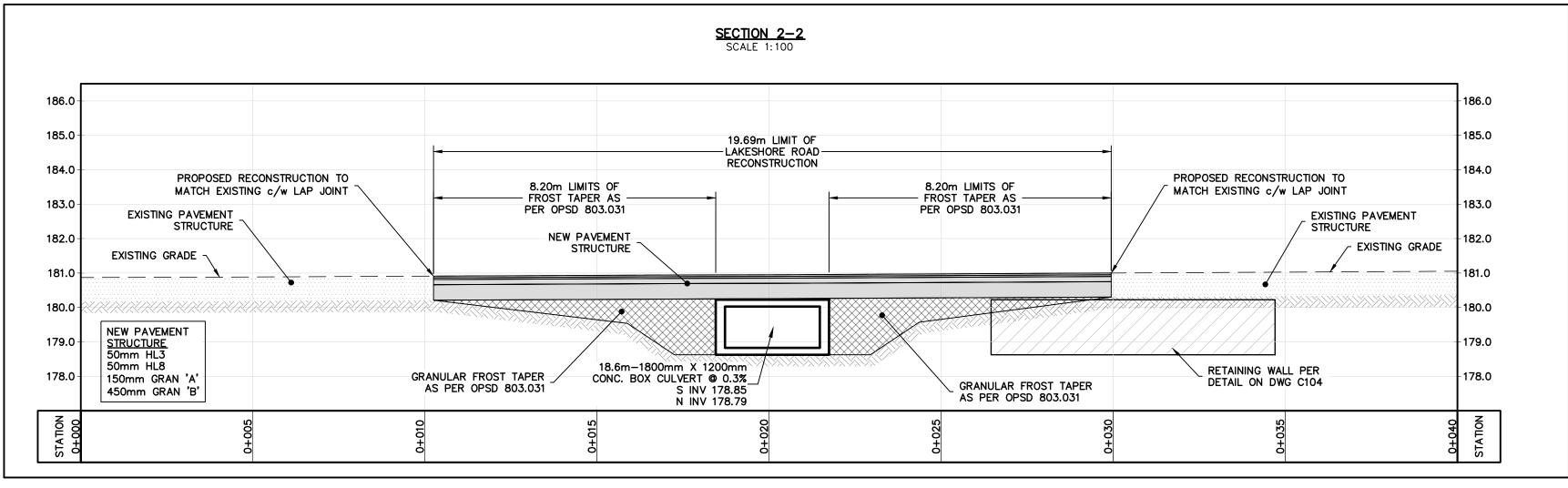
GRADING CROSS SECTIONS G TO K













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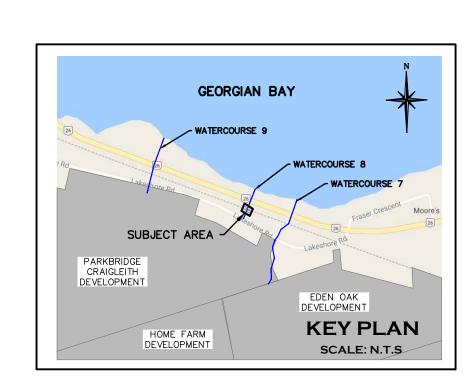
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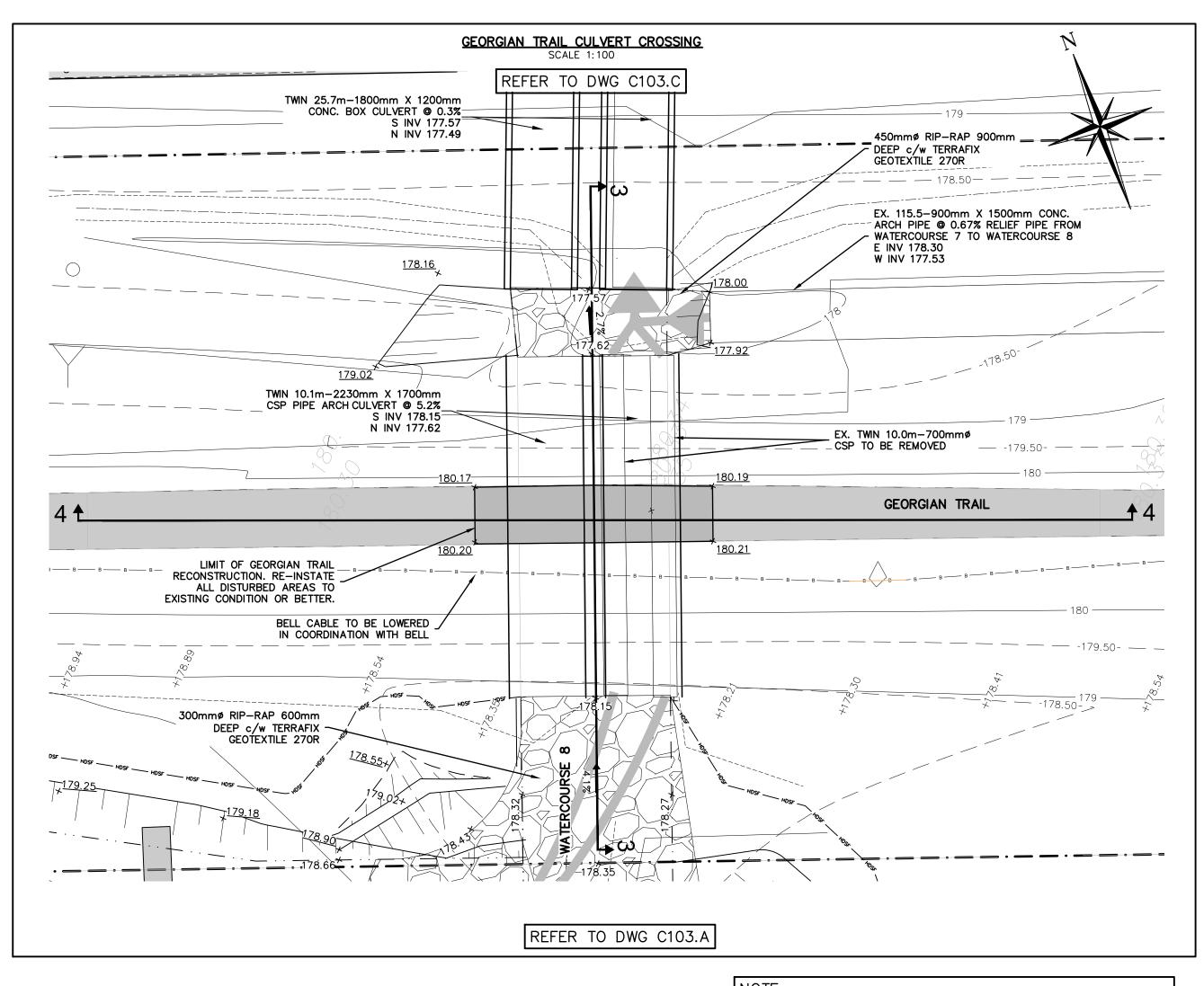
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| | 0 | ISSUED FOR FIRST SUBMISSION | 05/31/2023 | | | |
| | 1 | ISSUED FOR TENDER | 07/02/2023 | | | |
| 1 | 2 | ISSUED FOR SECOND SUBMISSION | 12/22/2023 | | | |
| | 3 | ISSUED FOR THIRD SUBMISSION | 06/27/2024 | | | Drawin |
| 1 | 4 | ISSUED FOR FOURTH SUBMISSION | 10/16/2024 | | | |
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CRAIGLEITH REGIONAL SWM IMPROV THE TOWN OF THE BLUE MOUNT

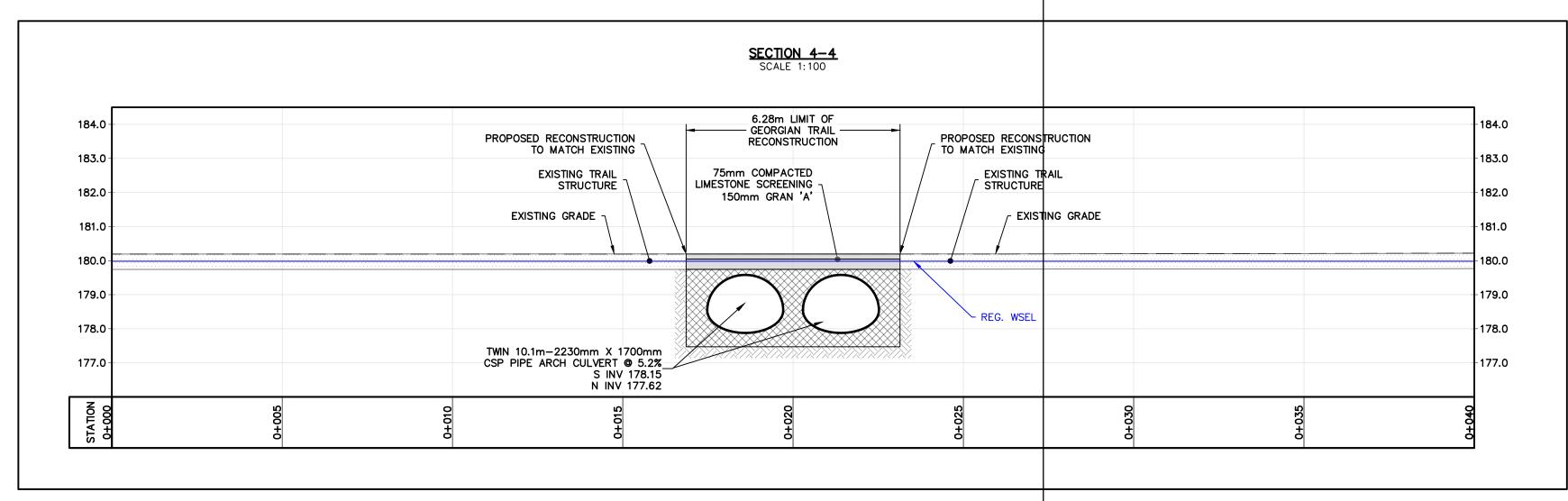
LAKESHORE ROAD EAST CULVERT CROSSING PLAN AND SECTIONS







SCALE 1:100 LAKESHORE ROAD EX. 115.5m-1500mm X 900mm CONCRETE ARCH PIPE @ 0.67% CULVERT HWY 26 CULVERT 182.0 182.0 RELIEF PIPE FROM WATERCOURSE GEORGIAN MITER INLET END OF GEORGIAN - CROSSING. REFER TO DWG C103.C 7 TO WATERCOURSE 8 TRAIL CULVERTS WITH STEP REG. WSEL -BEVEL PER OPSD 801.010 181.0 181.0 S INV. 178.30 N INV. 177.53 EXISTING GRADE -PROPOSED GRADE 179.0 $13.98 \text{ m}^3/\text{s}$ 18.6m-1800mm X 1200mm CONC. BOX CULVERT @ 0.3%_ TWIN 10.1m-2230mm X 1700mm S INV 178.85 177.0 CSP PIPE ARCH CULVERT @ 5.2% N INV 178.79 _S INV 178.15 N INV 177.62 176.0 176.0



CONSTRUCTION OF CULVERT CROSSINGS TO BE COMPLETED IN DRY CONDITIONS. CONTRACTOR TO PROVIDE CONSTRUCTION PLANS INDICATING HOW THE SITE WILL BE ISOLATED WHILE WORKING IN THE CHANNELS PARTICULARLY WITH REFERENCE TO THE FISHERIES WINDOW. CONSTRUCTION PLANS ARE TO INCLUDE BUT NOT BE LIMITED TO, SILT FENCING, COFFER DAMS, PUMPS ETC. CONSTRUCTION PLANS TO BE PROVIDED TO TOWN AND ENGINEER FOR APPROVAL.



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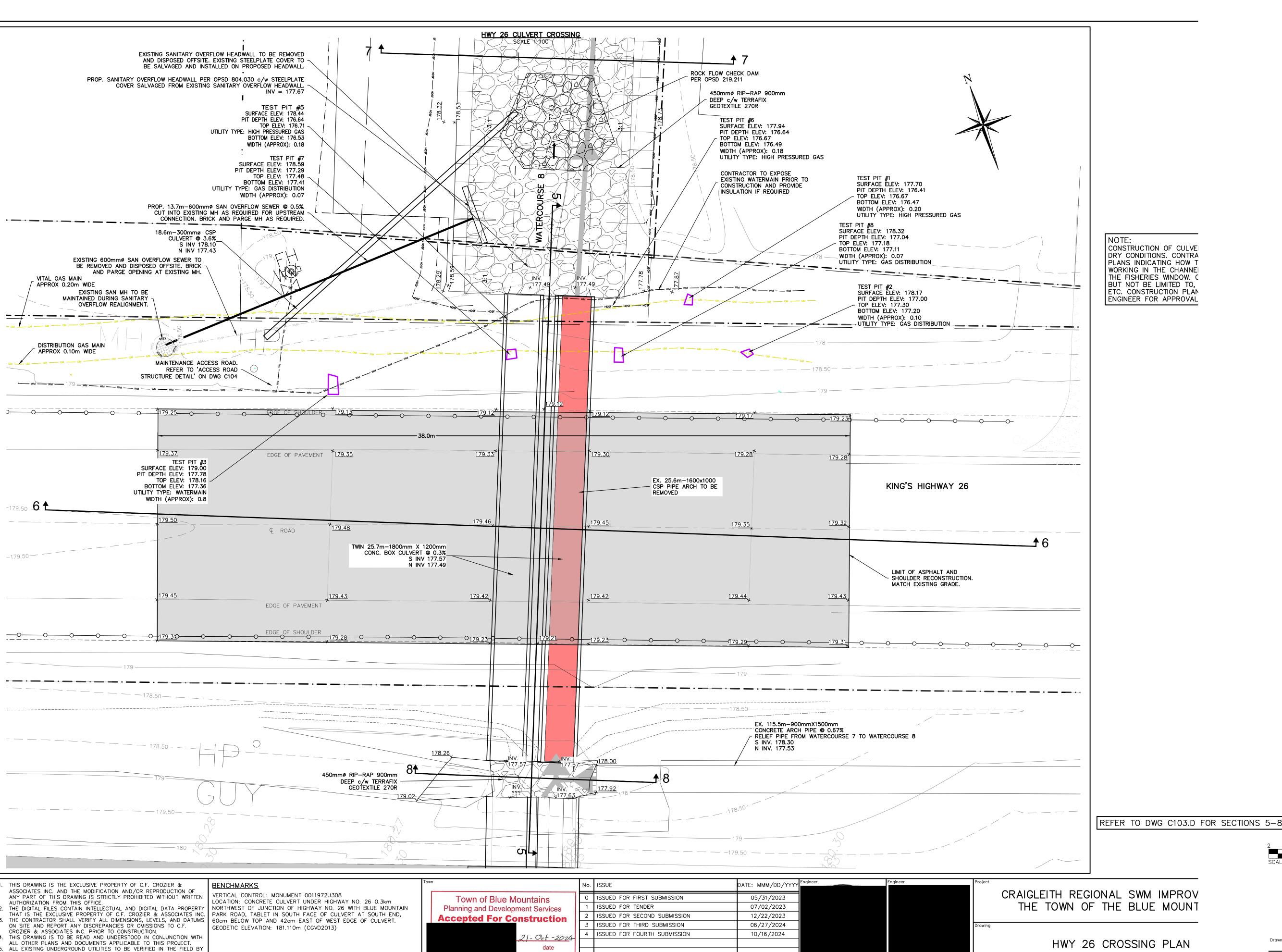
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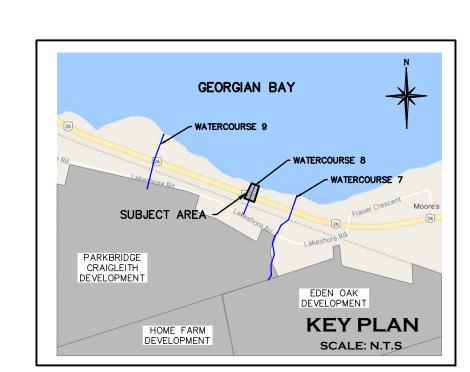
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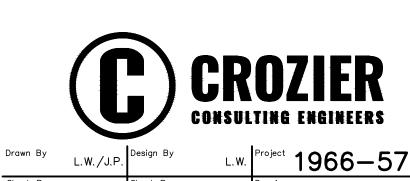
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> GEORGIAN TRAIL CROSSING PLAN AND SECTIONS



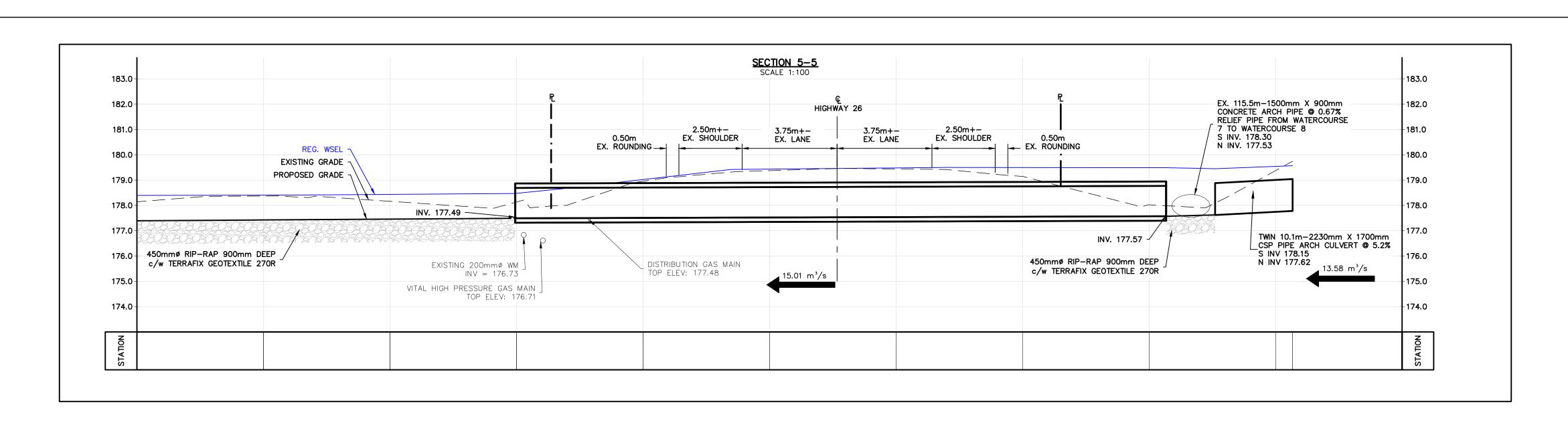


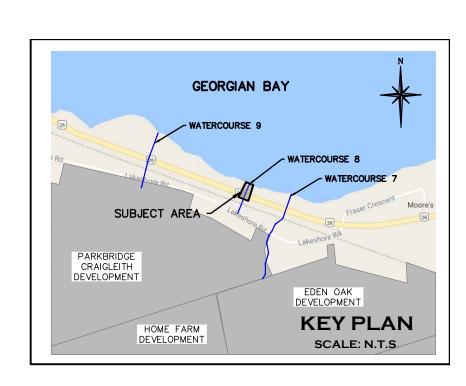


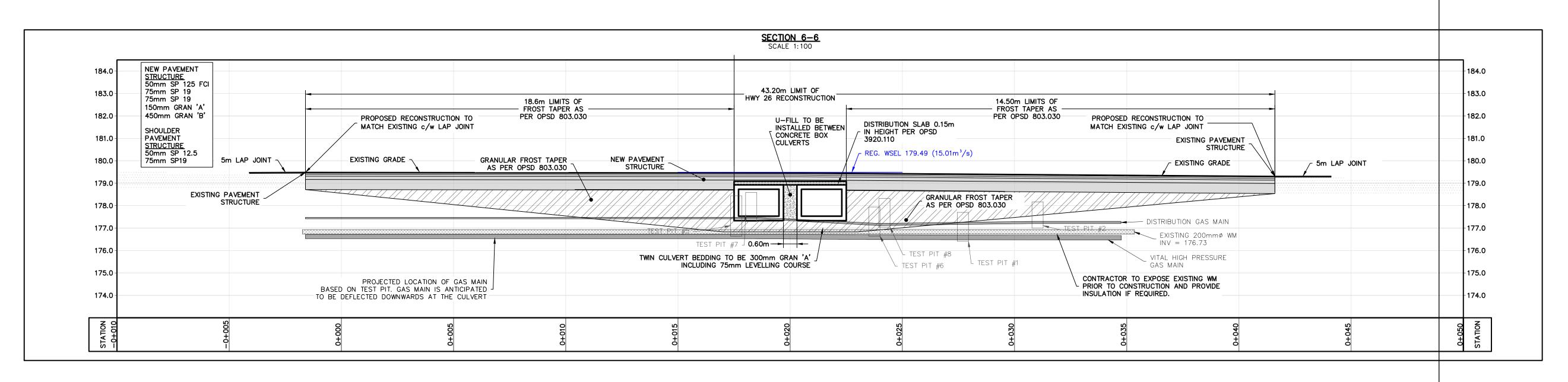


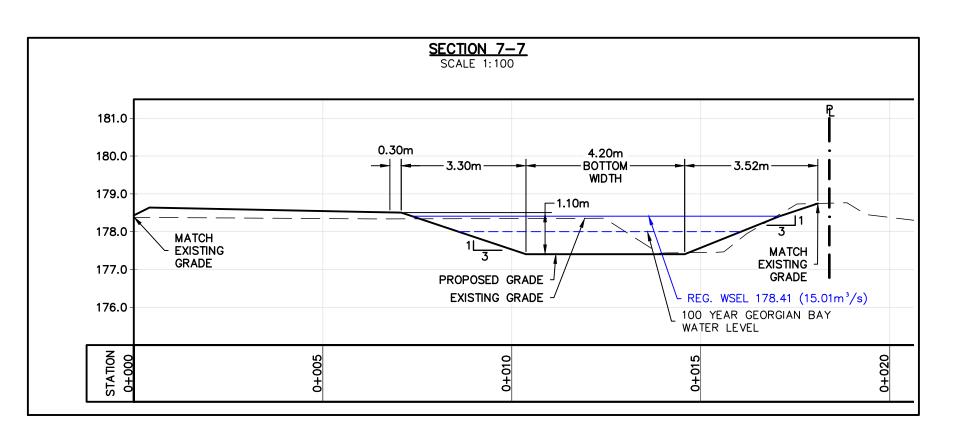
THE CONTRACTOR PRIOR TO CONSTRUCTION.

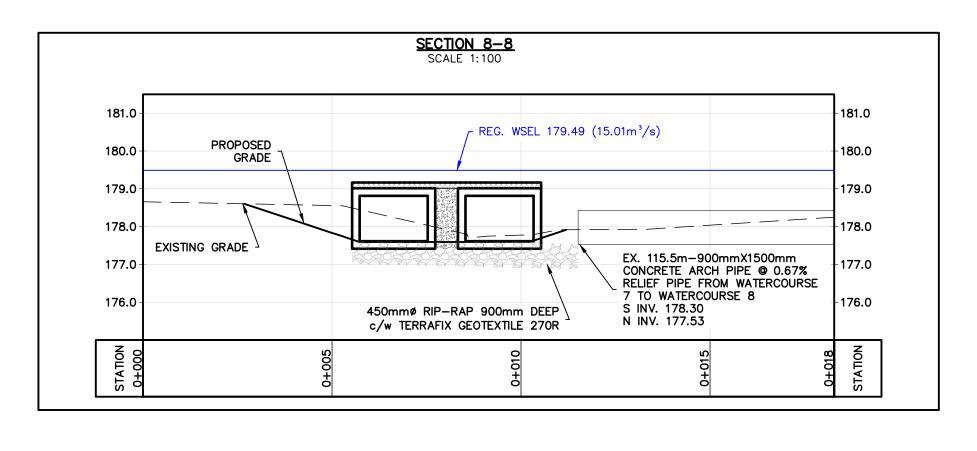
DO NOT SCALE DRAWINGS.











CONSTRUCTION DRY CONDITIONS PLANS INDICATI WORKING IN THE THE FISHERIES BUT NOT BE LIN ETC. CONSTRUC ENGINEER FOR <u>NOTES</u>

WATERPROOFIN WATERPROOFIN ACCORDANCE

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THAT IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & ASSOCIATES INC. | PARK ROAD, TABLET IN SOUTH FACE OF CULVERT AT SOUTH END, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, AND DATUMS 60cm BELOW TOP AND 42cm EAST OF WEST EDGE OF CULVERT. ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO C.F. CROZIER & ASSOCIATES INC. PRIOR TO CONSTRUCTION. THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH

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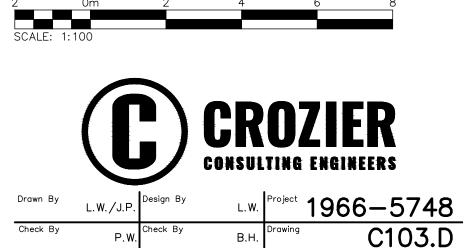
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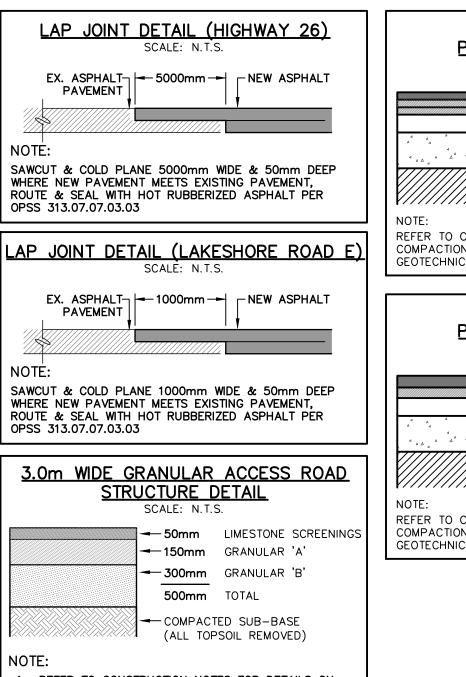
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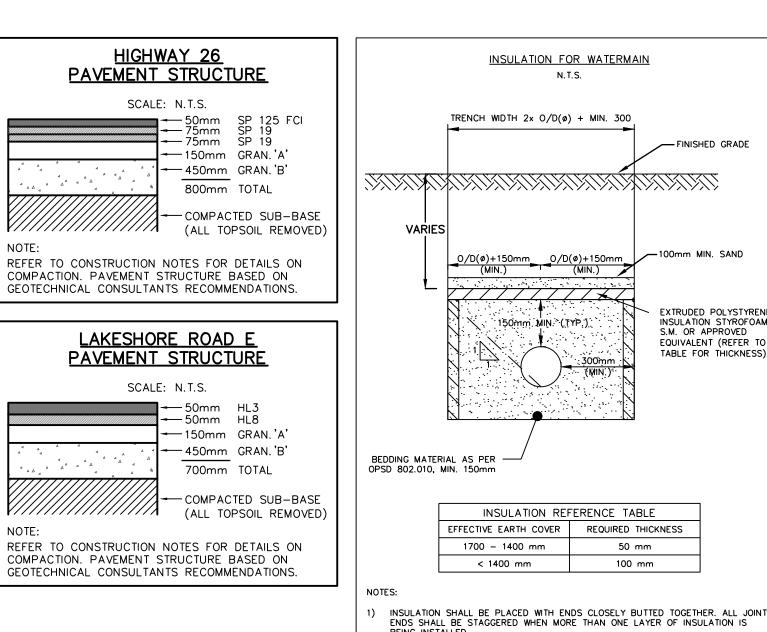
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CRAIGLEITH REGIONAL SWM IMPROV THE TOWN OF THE BLUE MOUNT

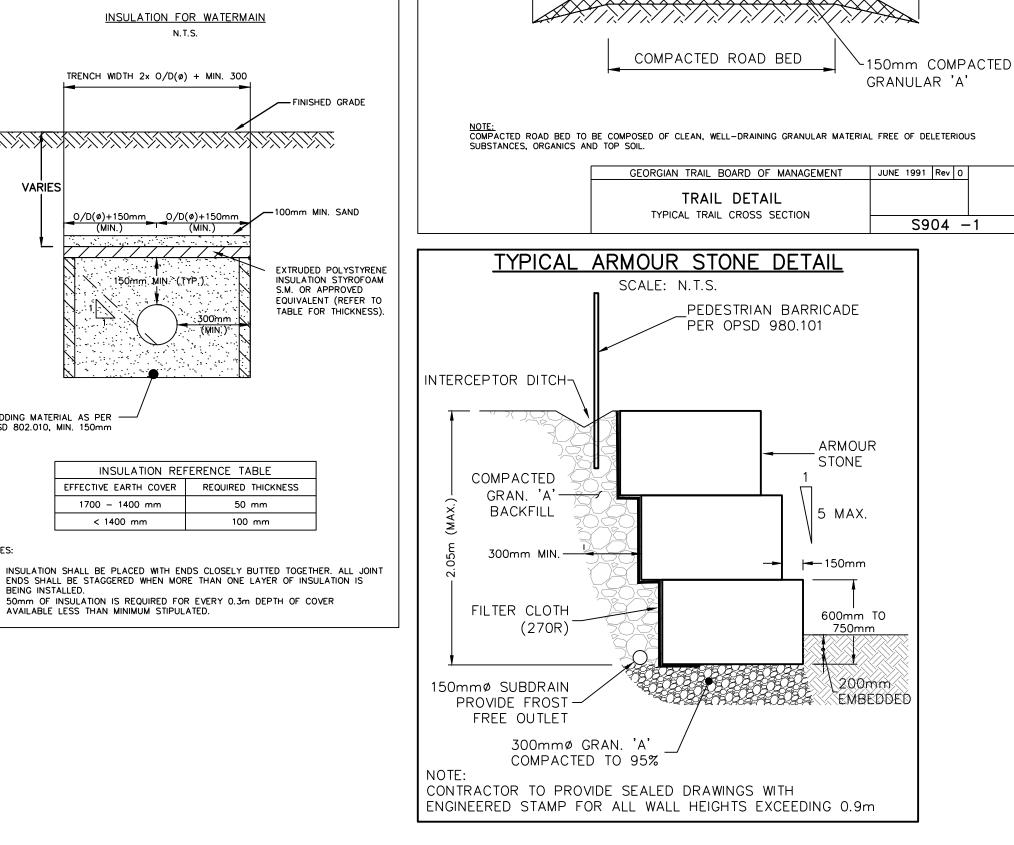
HWY 26 CULVERT CROSSING SECTIONS







AVAILABLE LESS THAN MINIMUM STIPULATED.



- 75mm COMPACTED

LIMESTONE SCREENING

REFER TO CONSTRUCTION NOTES FOR DETAILS ON PLACEMENT OF MATERIALS. WATERCOURSE 9 CULVERT RELINING AT GEORGIAN TRAIL CROSSING DETAIL ANNULAR SPACE BETWEEN EXISTING AND PROPOSED CSPs TO BE GROUTED TO PIPE MANUFACTURER'S SPECIFICATIONS, CONTRACTOR TO ENSURE GROUT MIX AND GROUT PRESSURE CONFORM WITH PIPE MANUFACTURER'S ALLOWABLE GROUTING PRESSURE. EXISTING 1500mmø CSP TO REMAIN PROPOSED 1350mmø CSP TO BE INSERTED INTO EXISTING 1500mm CSP

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CONSTRUCTION NOTES

ALL EXISTING UNDERGROUND UTILITIES AND SERVICES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION

GENERAL

ANY SITE ILLUMINATION TO BE DIRECTED DOWNWARD AND INTERNAL TO SITE ONLY. DETAILS ON PROPOSED PLANTING, LANDSCAPE FEATURES, SITE TREATMENTS ARE PREPARED BY LANDSCAPE ARCHITECT

ROAD OCCUPANCY PERMIT IS REQUIRED FROM THE TOWN & MTO PRIOR TO ANY WORKS COMPLETED WITHIN THE MUNICIPAL RIGHT OF WAY (ROW). CONTRACTOR IS RESPONSIBLE TO RETAIN PERMIT.

ALL BOULEVARDS & DISTURBED AREAS ARE TO BE RESTORED TO EXISTING CONDITIONS OR BETTER, 100mm TOPSOIL & SEED UNLESS OTHERWISE NOTED. . CLEAR STONE WRAPPED IN FILTER CLOTH CAN BE SUBSTITUTED FOR BEDDING MATERIAL IF

APPROVED BY THE GEOTECHNICAL ENGINEER. ALL PROPERTY BARS TO BE PROTECTED DURING CONSTRUCTION. BARS ARE TO BE PLACED

BY O.L.S. AT CONTRACTOR'S EXPENSE IF DAMAGED OR REMOVED. . DEWATERING IF REQUIRED TO BE CARRIED OUT IN ACCORDANCE WITH OPSS-517 & 518 TO MAINTAIN ALL TRENCHES IN A DRY CONDITION. CONTRACTOR IS RESPONSIBLE FOR OBTAINING M O F PERMIT IF REQUIRED

). ALL RIP-RAP/GABION MATTRESSES TO BE PLACED UPON FILTER CLOTH,

10. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED. SEDIMENT AND EROSION CONTROL MEASURES THAT ARE DESIGNED TO CONTROL RUNOFF FROM SPECIFIC AREAS MUST BE INSTALLED PRIOR TO ANY DISTURBANCE TO SITE.

. THE CONTRACTOR MAY CONSIDER ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES. SUCH MEASURES MUST BE PRESENTED IN WRITING FOR APPROVAL OF THE CONTRACT ADMINISTRATOR AND THE TOWN.

2. THE CONTRACTOR SHALL HAVE MATERIALS AVAILABLE ON-SITE TO REPAIR SEDIMENT AND EROSION CONTROL MEASURES IN THE EVENT OF UNFORESEEN CONDITIONS: HIGHWATER, EXTREME RAINFALL EVENTS, ETC.

13. MUD MATS TO BE CONSTRUCTED AT PRIMARY SITE ACCESS POINT FROM GREY ROAD 19 AND FROM SECONDARY ACCESS POINTS FROM OLD LAKESHORE ROAD. 4. TEMPORARY TOPSOIL STOCKPILES ARE TO BE A MAXIMUM OF 5m HIGH WITH MAXIMUM 2:1 SIDE SLOPE AND BE PROVIDED WITH THE NECESSARY SEDIMENT AND EROSION CONTROL FEATURES PRIOR TO CONSTRUCTION. IF THE TOPSOIL STOCK PILES ARE TO REMAIN FOR A

PERIOD LONGER THAN 30 DAYS, STOCKPILES SHALL BE SEEDED. 15. CONTRACTOR TO ENSURE POSITIVE DRAINAGE THROUGH SITE SUCH THAT NO UPSTREAM OR DOWNSTREAM IMPACT OCCURS DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL BE RESPONSIBLE TO CLEAN ALL ADJACENT ROADWAYS AS REQUIRED

OR AS DIRECTED BY SITE ENGINEER OR TOWN. 17. CONTRACTOR TO ENSURE ALL DRIVEWAYS REMAIN OPEN DURING CONSTRUCTION 18. ALL DISTURBED AREAS TO BE HYDRO SEEDED WHEN FINAL GRADING HAS BEEN COMPLETED. 19 NO IN-WATER WORKS RETWEEN MARCH 15TH - JULY 15TH

20. NO TREE CLEARING BETWEEN APRIL 1ST - AUGUST 30TH. 21. ALL WORK TO BE PERFORMED IN DRY DEWATERED CONDITIONS USING COFFER DAMS AND TEMPORARY CULVERTS.

22. NO MAINTENANCE OR REPAIR WORK ON CONSTRUCTION EQUIPMENT IS ALLOWED WITHIN 30 METRES OF WATERCOURSE

23. ALL TEMPORARY SOIL OR DIRT TO BE STOCKPILED PER DESIGNATED AREAS. 24. THE SEDIMENT & EROSION CONTROLS SPECIFIED HEREIN DO NOT NECESSARILY CONSTITUTE ALL MEASURES REQUIRED GIVEN FIELD CONDITIONS. CONTRACTOR TO PROVIDE ANY

SUPPLEMENTARY SEDIMENT & EROSION CONTROL MEASURES AS REQUIRED TO ENSURE NO RELEASE OF DELETERIOUS SUBSTANCES TO WATERCOURSE 25. CONTRACTOR TO FOLLOW O.REG 406/19 FOR ALL EARTH MOVING

. ALL EXCAVATION SHALL CONFORM TO THE CURRENT ONTARIO PROVINCIAL SPECIFICATION FOR

GRADING OPSS 206. THE DEVELOPER SHALL RETAIN A QUALIFIED SOILS CONSULTANT TO CARRY OUT COMPACTION TESTS ON THE COMPLETED SUBGRADE AND SUBSEQUENT LIFTS OF GRANULAR BASE MATERIAL BEFORE PLACEMENT OF NEXT GRANULAR OR ASPHALT LIFT.

ALL VEGETATION, BOULDERS OVER 150mmø, TOPSOIL AND ORGANIC OR FROST-SUSCEPTIBLE MATERIALS, SHALL BE REMOVED FROM THE ROAD BASE TO A DEPTH OF AT LEAST 1.20m BELOW FINISHED GRADE AND REPLACED WITH SUITABLE MATERIAL . ALL UNSUITABLE EXCAVATED MATERIAL SHALL BE REMOVED FROM THE ENTIRE "ROAD

CORRIDOR" AND DEPOSITED OFF THE SITE TO A DISPOSAL AREA APPROVED BY THE SITE ENGINEER.

THE SUB-GRADE SHALL BE SHAPED TO CONFORM TO THE REQUIRED LONGITUDINAL GRADE AND CROSS-SECTION AND SHALL HAVE A CROSSFALL OF 3%. NATIVE SUB-GRADE TO BE GRADED, COMPACTED AND PROOF-ROLLED PRIOR TO PLACEMENT

OF GRANULARS. COMPACTION TO BE MINIMUM 98% STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD). ALL IDENTIFIED SOFT AND WEAK SPOTS SHALL BE EXCAVATED AND BACKFILLED WITH A SUITABLE GRANULAR BASE MATERIAL.

THE GRANULAR BASE SHALL BE LAID ON DRY, SMOOTH, PROPERLY GRADED SUB-GRADE, AND SHALL BE SPREAD FOR THE REQUIRED WIDTH TO MEET THE EDGE OF SUB-GRADE. THE GRANULAR ROAD BASE SHALL CONSIST OF A BOTTOM COURSE OF 450mm MIN. CONSOLIDATED GRANULAR 'B" MATERIAL FULL WIDTH ACROSS THE ROADWAY AND A TOP COURSE OF 150mm GRANULAR 'A' MATERIAL FULL WIDTH ACROSS THE ROADWAY AND CONFORMING IN ALL RESPECTS TO THE MINISTRY OF TRANSPORTATION ONTARIO PROVINCIAL STANDARD SPECIFICATIONS OPSS 1010.

THE GRANULAR MATERIAL SHALL BE SPREAD IN LAYERS OF 150mm MAXIMUM COMPACTED DEPTHS, AND EACH LAYER SHALL BE THOROUGHLY COMPACTED TO 100% SPMDD. NO GRANULAR BASE SHALL BE PLACED UNTIL THE GRADE ON WHICH IT IS TO BE LAID HAS BEEN INSPECTED AND APPROVED BY THE SOILS CONSULTANT.

ALL GRANULAR CONSTRUCTION SHALL CONFORM IN ALL RESPECTS TO ONTARIO PROVINCIAL STANDARD SPECIFICATION OPSS 314. 1. THE ASPHALT COMPONENTS SHOULD BE COMPACTED TO 92% MAXIMUM RELATIVE DENSITY,

AS PER OPSS 310 AND 313. 12. JOINTS WITH EXISTING ASPHALT TO BE SAW CUT STRAIGHT PRIOR TO PLACING NEW ASPHALT AND TACK COAT APPLIED TO EXISTING ASPHALT.

13. ALL SERVICES, MANHOLES, VALVES, ETC. ARE TO BE INSTALLED TO MATCH GRADE OF BASE COURSE OF ASPHALT AND/OR FINISHED GRADE OF LANDSCAPING. UPON PLACEMENT OF SURFACE COURSE OF ASPHALT ALL APPURTENANCES LOCATED IN ROADWAY SHALL BE RAISED TO MATCH FINISHED GRADE. 14. ALL ROAD CROSSING CULVERTS TO BE HDPE 320 kPa PIPE TO CL-625 CSA S6 UNLESS

NOTED OTHERWISE. ALL CULVERTS TO BE INSTALLED WITH FROST TAPER TREATMENT PER OPSD 803.031 & RIP RAP END TREATMENT PER OPSD 810.010. MINIMUM COVER TO BE 0.3m AT ALL POINTS ALONG PIPE

15. ALL IMPACTED SIGNS ARE TO BE SALVAGED AND REINSTATED ON NEW POSTS

MAINTENANCE & OPERATION OF SEDIMENT CONTROLS SILT FENCE

SILT FENCE MUST BE INSPECTED WEEKLY FOR RIPS OR TEARS, BROKEN STAKES, BLOW-OUTS AND ACCUMULATION OF SEDIMENT. SILT FENCE MUST BE INSPECTED IMMEDIATELY AFTER EVERY RAIN STORM EVENT OR AS

DIRECTED BY SITE ENGINEER.

DIRECTED BY THE SITE ENGINEER.

MUD MAT

BETWEEN EXISTING GROUND AND CLEAR STONE. INSPECT MUD MAT WEEKLY TO ASSESS CONDITION AND TO ENSURE OPERATION EFFICIENCY. SUPPLY AND PLACE ADDITIONAL STONE TO PREVENT MUD TRACKING AS DIRECTED BY SITE

MUD MAT TO REMAIN IN PLACE UNTIL SITE IS STABILIZED OR AS DIRECTED BY SITE

FIBRE ROLL CHECK DAM (OPSD 219.191)

THE SITE ENGINEER. NECESSARY REPAIRS SHOULD BE MADE PROMPTLY.

FIBRE ROLLS TO REMAIN IN PLACE UNTIL CONSTRUCTION OF ROADWAYS AND ROADSIDE DITCHES HAVE BEEN FINISHED WITH TOPSOIL AND SOD OR AS DIRECTED BY SITE ENGINEER.

ALL CONSTRUCTION TO CONFORM TO AWWA C605-94 AND AWWA C600-99 STANDARDS. . WATERMAIN PIPE SHALL BE PVC DR18 (SIZES UP TO 300mmø), CONFORMING TO AWWA C900. ALL PIPE MATERIALS SHALL MEET NSF 60, 61 AND 372. A DIFFERENT PIPE STRENGTH

OR TYPE MAY BE REQUIRED BY THE MUNICIPALITY FOR SPECIAL CONDITIONS. WATERMAIN DEFLECTION NOT TO EXCEED MANUFACTURER'S RECOMMENDATIONS. WHERE DEFLECTION CAN NOT MEET MANUFACTURES RECOMMENDATIONS, CONTRACTOR TO INSTALL

THE REQUIRED MANUFACTURED BEND AS NECESSARY.

WATERMAIN SHALL BE BEDDED IN ACCORDANCE WITH OPSD 802.010 WITH GRANULAR 'A'.

WATERMAIN TO BE TESTED AND APPROVED PER THE TOWN OF THE BLUE MOUNTAINS -WATERMAIN COMMISSIONING PROTOCOL STANDARD (MAY 2021). ALL TESTING REQUIRES NOTIFICATION IN WRITING, 48 HOURS PRIOR TO ALL TESTING.

ALL CONNECTIONS TO EXISTING MUNICIPAL SUPPLY MAINS MUST BE WITNESSED AND INSPECTED BY THE MUNICIPALITY OR REPRESENTATIVE AND GIVING 48 HOURS NOTICE PRIOR TO BACKFILLING OPERATIONS.

B. THE PVC PIPE INSTALLATION SHALL INCLUDE TRACER WIRE. TRACER WIRE TO BE 10 GAUGE, MULTI-STRAND SHALL BE PLACED ON TOP & ATTACHED IN TWO PLACES ON EACH LENGTH OF PVC WATERMAIN. ALL CONNECTIONS SHALL BE MADE WITH "DRYCONN WATERPROOF CONNECTORS" OR APPROVED EQUAL. MUNICIPALITY MUST BE ON SITE DURING ANY TRACER WIRE CONTINUITY TESTING.

THE MINIMUM COVER ON WATERMAINS SHALL BE 1.7m. WHEN COVER IS LESS THAN 1.7m, CONTRACTOR TO PROVIDE INSULATION PER DETAIL ON THIS DRAWING. O. CATHODIC PROTECTION REQUIRED ON ALL METALLIC FITTINGS AND PIPE AS PER OPSS 702 &

TOWN STANDARD. ALL ANODES SHALL BE PACKAGED ZINC ANODES. THE ZINC COATING SHALL HAVE A 316 STAINLESS STEEL CORE WIRE. THE ZINC CASTING IS THE BE PACKAGED IN CARDBOARD OR A CLOTH BAG HAVING A MINIMUM DIAMETER OF 100mm. THE BACKFILL MATERIAL WITHIN THE PACKAGE SHALL BE GYPSUM/SODIUM SULPHATE/BENTONITE MIXTURE HAVING AN ELECTRICAL

METRES IN LENGTH SHALL BE BRAZED TO THE END OF THE CORE WIRE. 12. TRACER WIRE TO BE 10 GAUGE, MULTI-STRAND SHALL BE PLACED ON TOP AND ATTACHED IN TWO PLACES ON EACH LENGTH OF P.V.C. WATERMAIN. ALL CONNECTIONS SHALL BE MADE

RESISTIVITY LESS THAN 50 ohm cm WET. AN INSULATED COPPER (AWG 10-12) WIRE 3

WITH "DRYCONN WATERPROOF CONNECTORS" OR APPROVED EQUAL. 13. THRUST BLOCKS OR JOINT RESTRAINTS SHALL BE REQUIRED AT ALL CHANGES IN PIPE DIRECTION, TERMINATIONS AND ANY LOCATION WHERE THRUST PRESSURES MAY OCCUR. WHERE SOIL CONDITIONS ARE SUSPECT, SUCH AS IN DISTURBED SOILS OR SOILS WITH BEARING CAPACITY OF LESS THAN 200kPg. PIPE RESTRAINERS SHALL BE USED. SEE TOWN STANDARDS OF APPROPRIATE PRODUCT REQUIREMENTS. THE USE OF THREADED RODS IN JOINT RESTRAINT IS NOT PERMISSIBLE. ANCHOR TEES TO BE INSTALLED ON ALL FIRE HYDRANT LEADS AND VALVES.

GENERAL CONSTRUCTION SCHEDULE

IN STREAM WORKS TO COMPLY WITH NVCA/DFO FISHERY TIMING GUIDELINES AND ASSOCIATED PERMITTING.

MAINTAIN TEMPORARY BY-PASS CULVERTS AND OVERLAND SPILL ROUTE PRIOR TO ANY

COMPLETE ASSOCIATED SEDIMENT CONTROLS, CULVERT AND UNDERGROUND SERVICES ENSURING WORKING IN THE DRY AT ALL TIMES.

GENERAL CULVERT NOTES

FOOTING DETAILS (DIMENSIONS & REINFORCING) FOR MUNICIPAL APPROVAL PROCESS ONLY. ACTUAL SIZE OF FOOTINGS AND REINFORCING AS PER DESIGN BY CONTRACTOR. FOOTINGS

ARE ASSUMED TO BE FOUNDED ON BEDROCK; CONTRACTOR TO CONFIRM IN FIELD. DESIGN IN ACCORDANCE WITH THE CANADIAN HIGHWAY BRIDGE DESIGN CODE (CAN/CSA-S6-06)

CONTRACTOR IS TO EXPOSE THE BEDROCK AROUND THE PROPOSED FOOTING FOR REVIEW BY GEOTECHNICAL ENGINEER. ANY LOOSE OR DELETERIOUS MATERIALS SHALL BE REMOVED AT DIRECTION OF THE GEOTECHNICAL ENGINEER

. CLASS OF CAST-IN-PLACE CONCRETE = 30 MPa. 5. CLEAR COVER TO REINFORCING:

FOOTINGS DISTRIBUTION SLAB = AS NOTED ON DWG.

BAR MARKS WITH SUFFIX 'C' DENOTE COATED BARS. REINFORCING BARS SHALL BE GRADE 400 MPa.

B. CONTRACTOR TO PROVIDE MIN. 0.75m GRANULAR ABOVE CULVERT STRUCTURE DURING CONSTRUCTION.

REQUIREMENTS FOR THE CONTRACTOR

PROVIDED.

PROVIDE STAMPED SHOP DRAWINGS INDICATING THAT THE CULVERT STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE CANADIAN HIGHWAY BRIDGE DESIGN CODE (CHBDC) (CAN/CSA-S6-06). CONTRACTOR TO ALSO PROVIDE COPIES OF ALL SHOP DRAWINGS TO THE TOWN FOR THEIR RECORDS.

SUBMISSION SHALL INCLUDE DETAILS ON REACTION LOADS, BOTH HORIZONTAL & VERTICAL. TO BE RESISTED BY FOUNDATION AS WELL AS DETAILS ON PROPOSED ANCHORAGE FOR CULVERT AND FOOTINGS.

ENSURE THAT THE SHOP DRAWINGS ARE SPECIFIC TO THIS CONTRACT, AND REFERENCED TO CECA PROJECT No. 721-3505, AND NOT A "STOCK ITEM".

ENSURE THAT SHOP DRAWINGS SHOW AND SPECIFY ALL JOINT FILLERS, SEALS AND COMPOUNDS, GROUT, AND GEOTEXTILE INSTALLATIONS AND APPLICATIONS.

CONTRACTOR RESPONSIBLE FOR DESIGN AND DETAILING OF CONCRETE HEADWALLS (COLLARS) INCLUDING ANCHORAGE DETAILS TO CULVERT. SEALED & SIGNED SHOP DRAWINGS TO BE

SEDIMENT DEPOSITS MUST BE REMOVED FROM SILT FENCE WHEN ACCUMULATION REACHES 50% OF THE HEIGHT OF THE FENCE . ALL SILT FENCES MUST BE REMOVED ONLY WHEN THE ENTIRE SITE IS STABILIZED AND AS

SILT FENCE TO BE INSTALLED ALONG PROPERTY LINE AND ALONG LIMITS OF PROTECTED

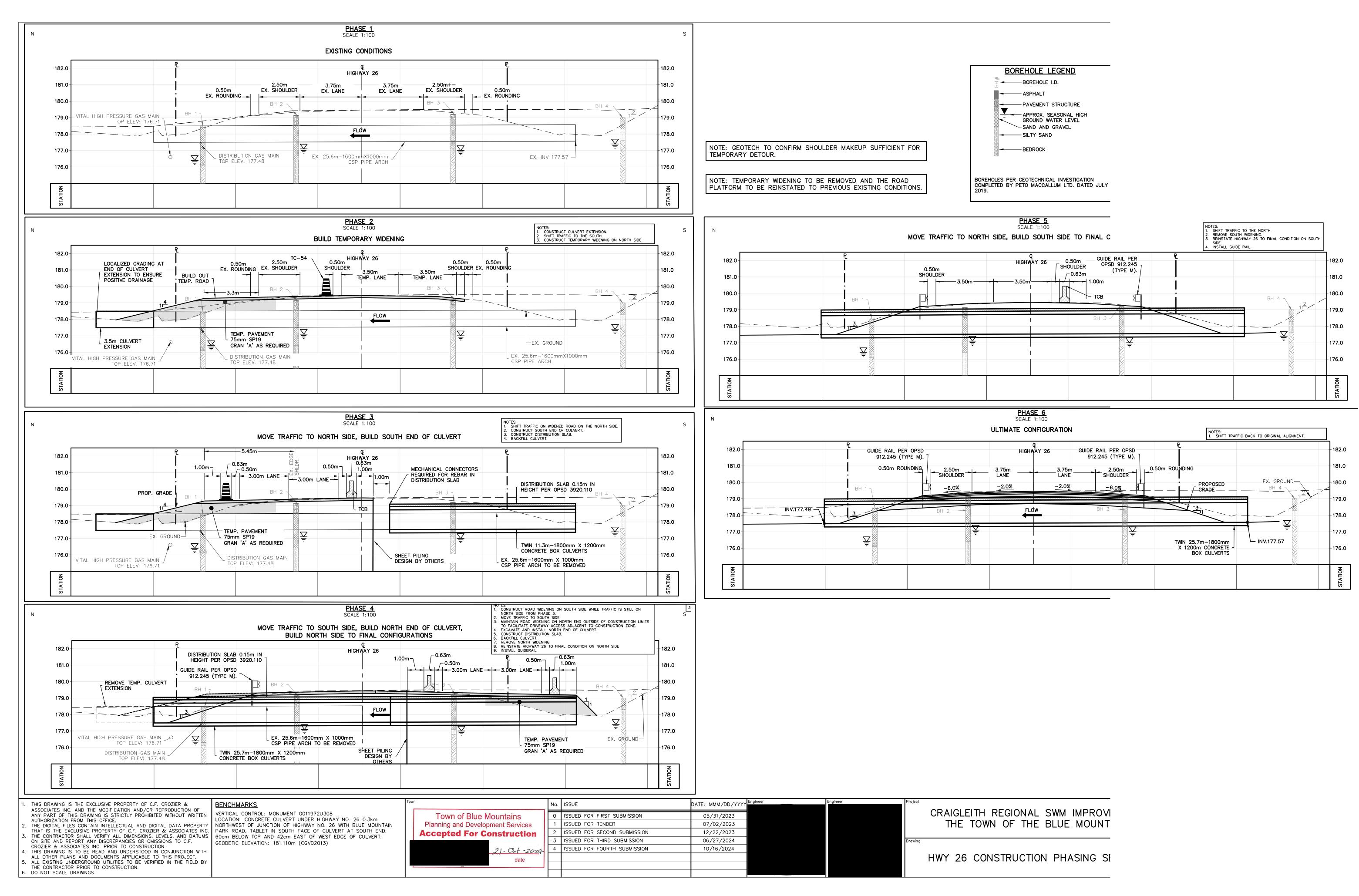
GEOTEXTILE (TERRAFIX 270R OR APPROVED EQUAL) TO BE PLACED AS SEPARATION BARRIER

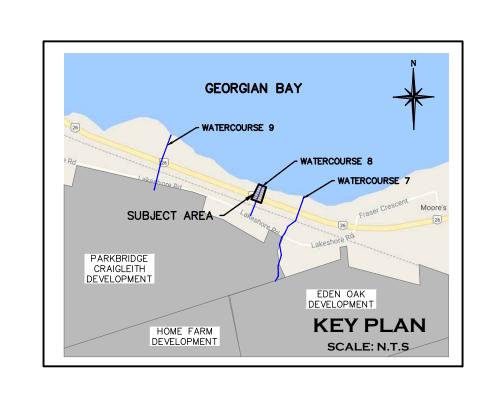
ENGINEER.

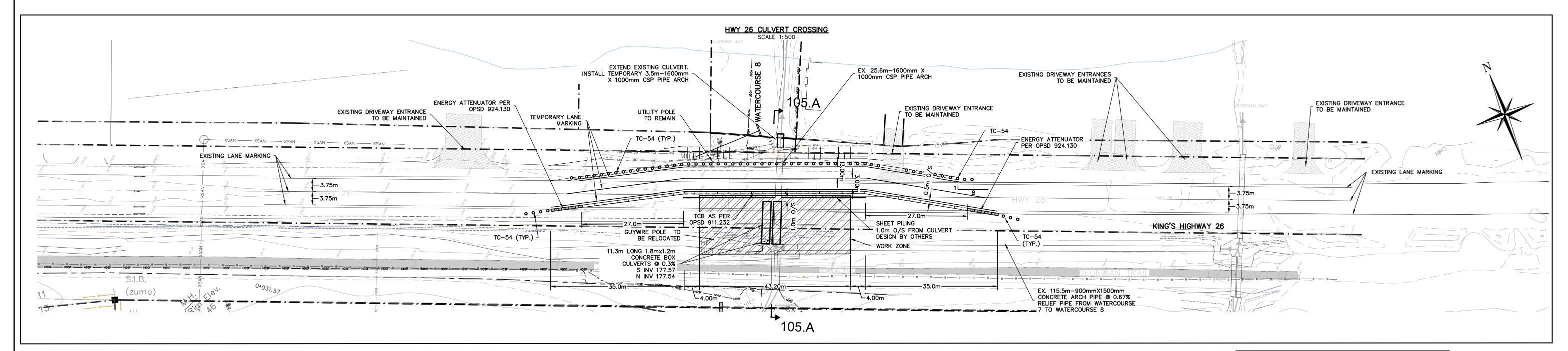
FIBRE ROLL MUST BE INSPECTED AFTER EACH SIGNIFICANT RAINFALL OR AS DIRECTED BY REMOVE ACCUMULATED SEDIMENT UPSTREAM OF ROLL IF GREATER THAN ONE HALF OF DAM

CRAIGLEITH REGIONAL SWM IMPROV THE TOWN OF THE BLUE MOUNT

CONSTRUCTION NOTES AND STANDARD DETAILS







NOTE: REGULATORY SPEED REDUCTION TO BE 50 km/h

NOTE: CONTRACTOR TO ENSURE ACCESS TO EXISTING RESIDENTIAL DRIVEWAYS IS MAINTAINED AT ALL TIMES.

<u>LEGEND</u>

TEMPORARY CONSTRUCTION BARRIER (OPSD 911.323)

TC-54 FLEXIBLE DRUM BARREL 000

ENERGY ATTENUATOR (OPSD 924.130)

HEAVY DUTY SILT FENCE



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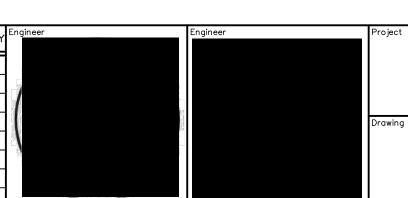
ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS.

BENCHMARKS

VERTICAL CONTROL: MONUMENT 0011972U308 LOCATION: CONCRETE CULVERT UNDER HIGHWAY NO. 26 0.3km THE DIGITAL FILES CONTAIN INTELLECTUAL AND DIGITAL DATA PROPERTY | NORTHWEST OF JUNCTION OF HIGHWAY NO. 26 WITH BLUE MOUNTAIN GEODETIC ELEVATION: 181.110m (CGVD2013)

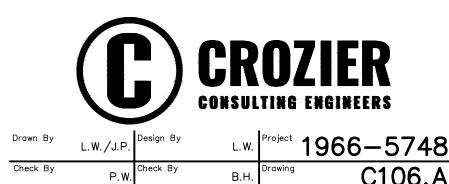
Town of Blue Mountains Planning and Development Services **Accepted For Construction**

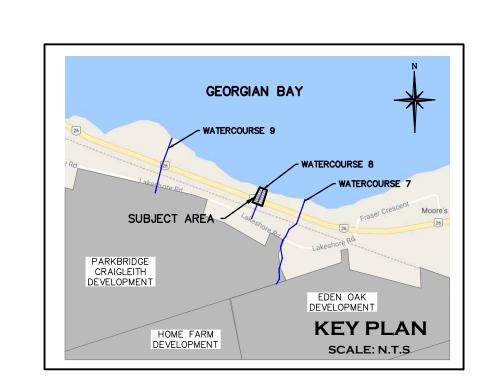
DATE: MMM/DD/YYYY ISSUED FOR FIRST SUBMISSION 05/31/2023 ISSUED FOR TENDER 07/02/2023 ISSUED FOR SECOND SUBMISSION 12/22/2023 ISSUED FOR THIRD SUBMISSION 06/27/2024 ISSUED FOR FOURTH SUBMISSION 10/16/2024

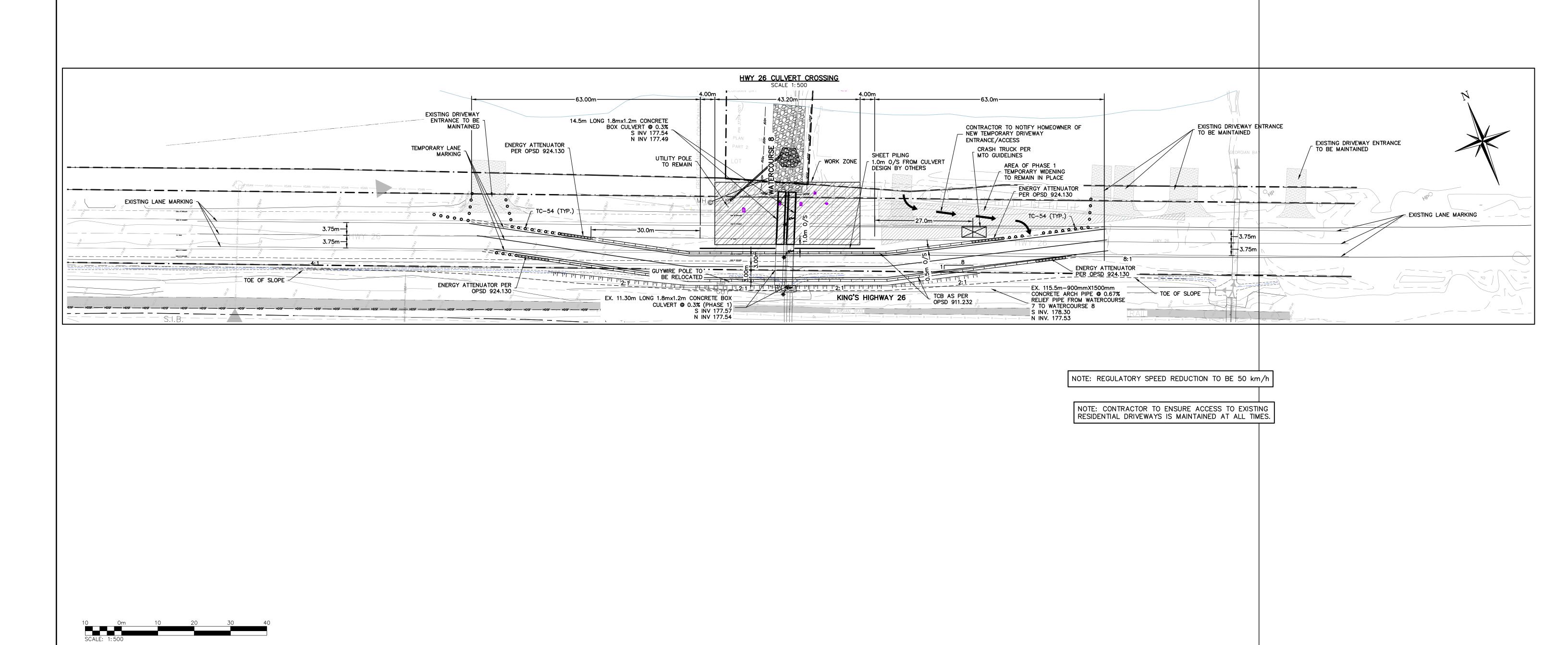


CRAIGLEITH REGIONAL SWM IMPROV THE TOWN OF THE BLUE MOUNT

HWY 26 TEMPORARY LANE REALIGNMENT PHASE 1







DATE: MMM/DD/YYYY

05/31/2023

07/02/2023

12/22/2023

06/27/2024

10/16/2024

ISSUED FOR FIRST SUBMISSION

ISSUED FOR SECOND SUBMISSION

ISSUED FOR THIRD SUBMISSION

ISSUED FOR FOURTH SUBMISSION

ISSUED FOR TENDER

Town of Blue Mountains

Planning and Development Services

Accepted For Construction

21-Oct -2024

date

CRAIGLEITH REGIONAL SWM IMPROV

THE TOWN OF THE BLUE MOUNT

HWY 26 TEMPORARY LANE REALIGNMENT

PHASE 2

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AUTHORIZATION FROM THIS OFFICE.

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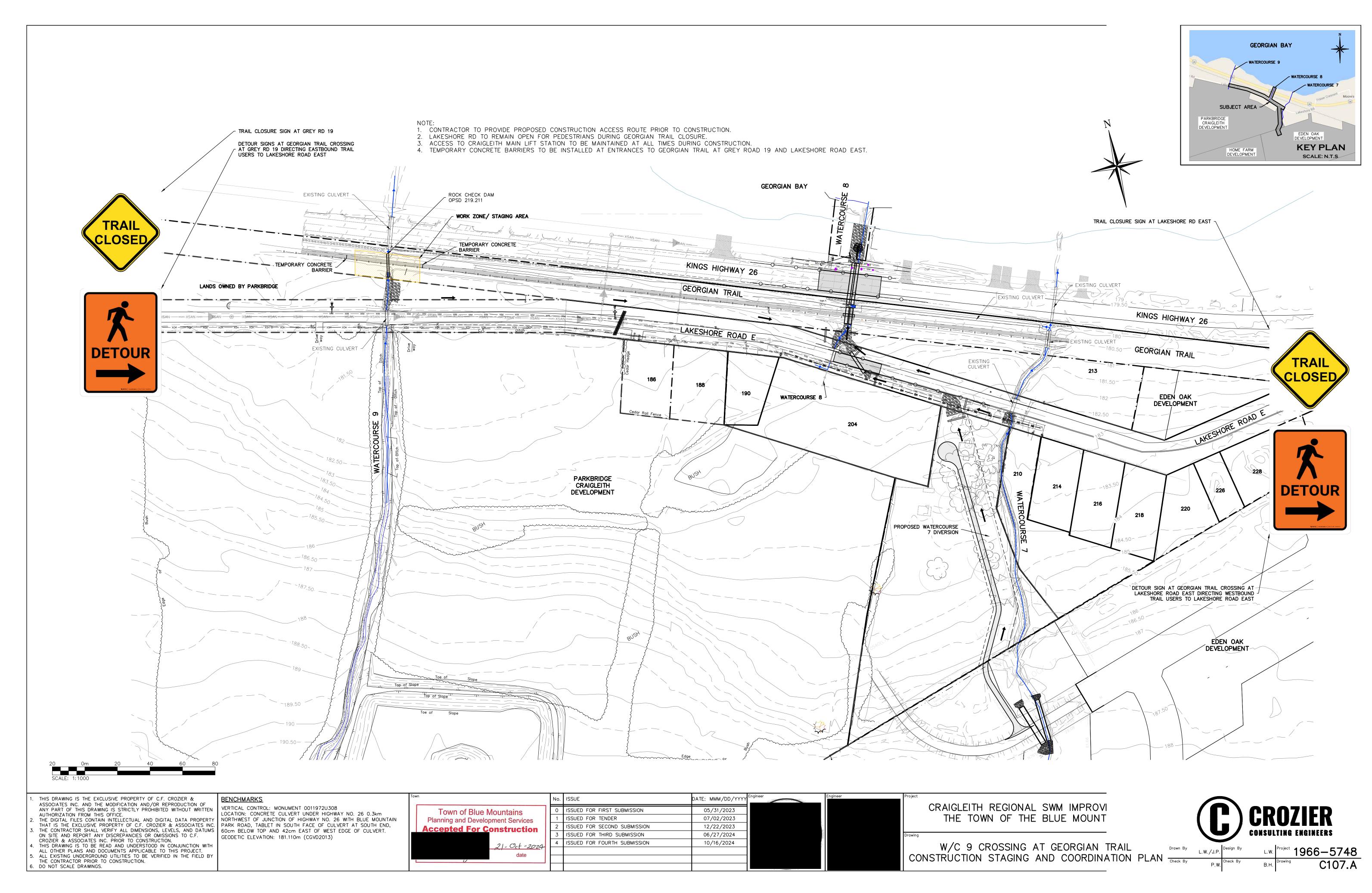
THAT IS THE EXCLUSIVE PROPERTY OF C.F. CROZIER & ASSOCIATES INC. | PARK ROAD, TABLET IN SOUTH FACE OF CULVERT AT SOUTH END,

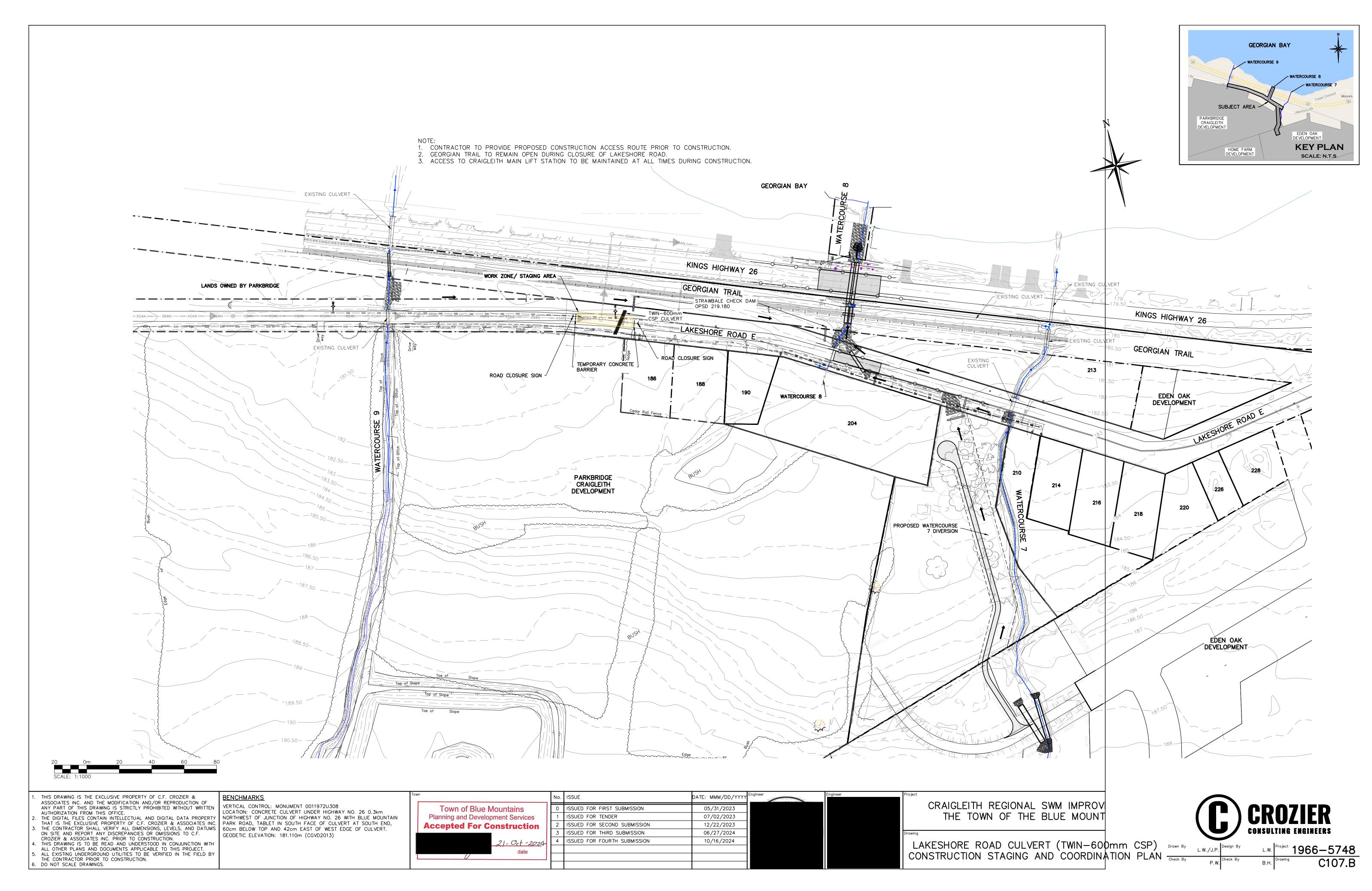
THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, AND DATUMS | 60cm BELOW TOP AND 42cm EAST OF WEST EDGE OF CULVERT.

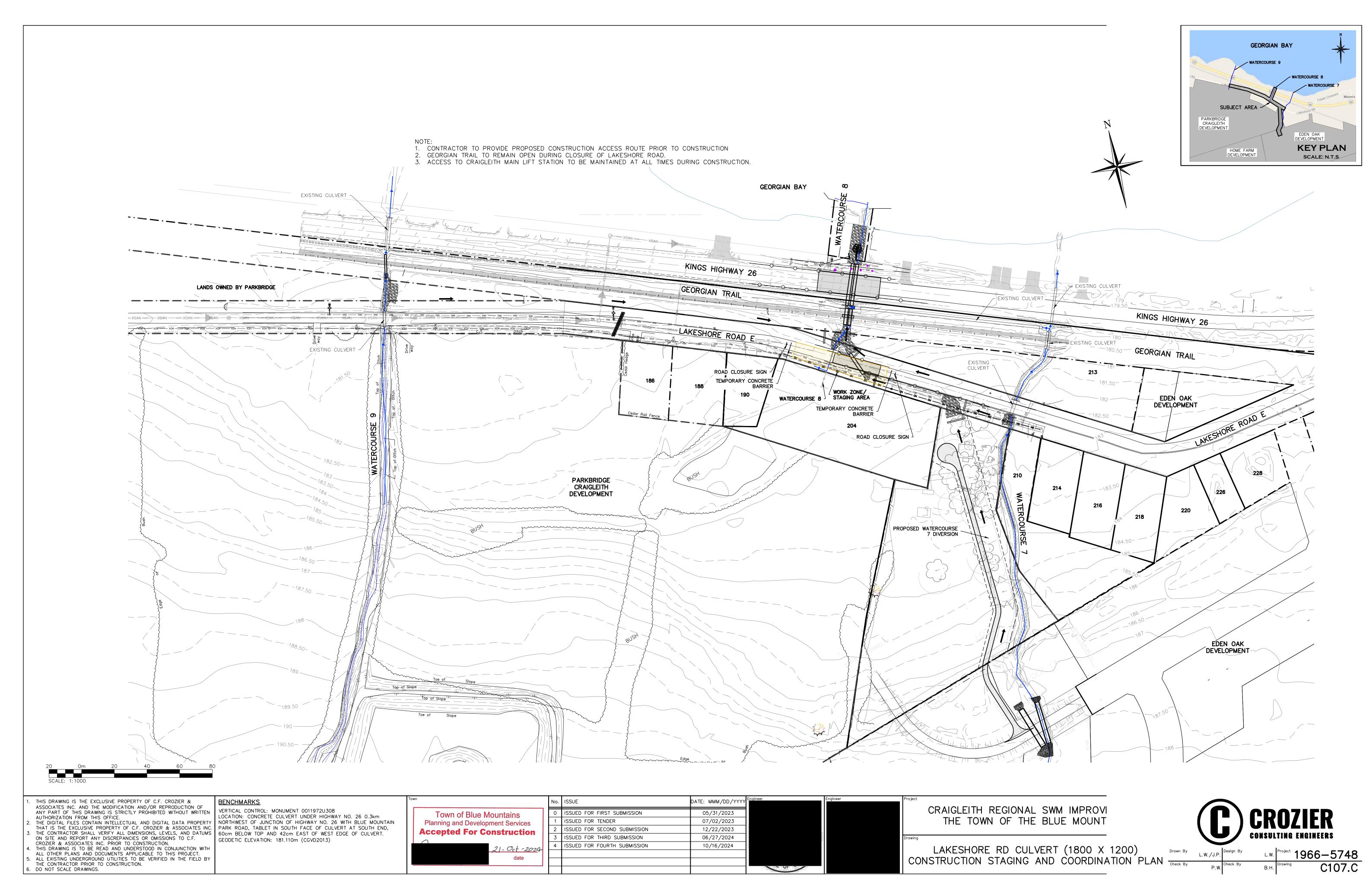
VERTICAL CONTROL: MONUMENT 0011972U308

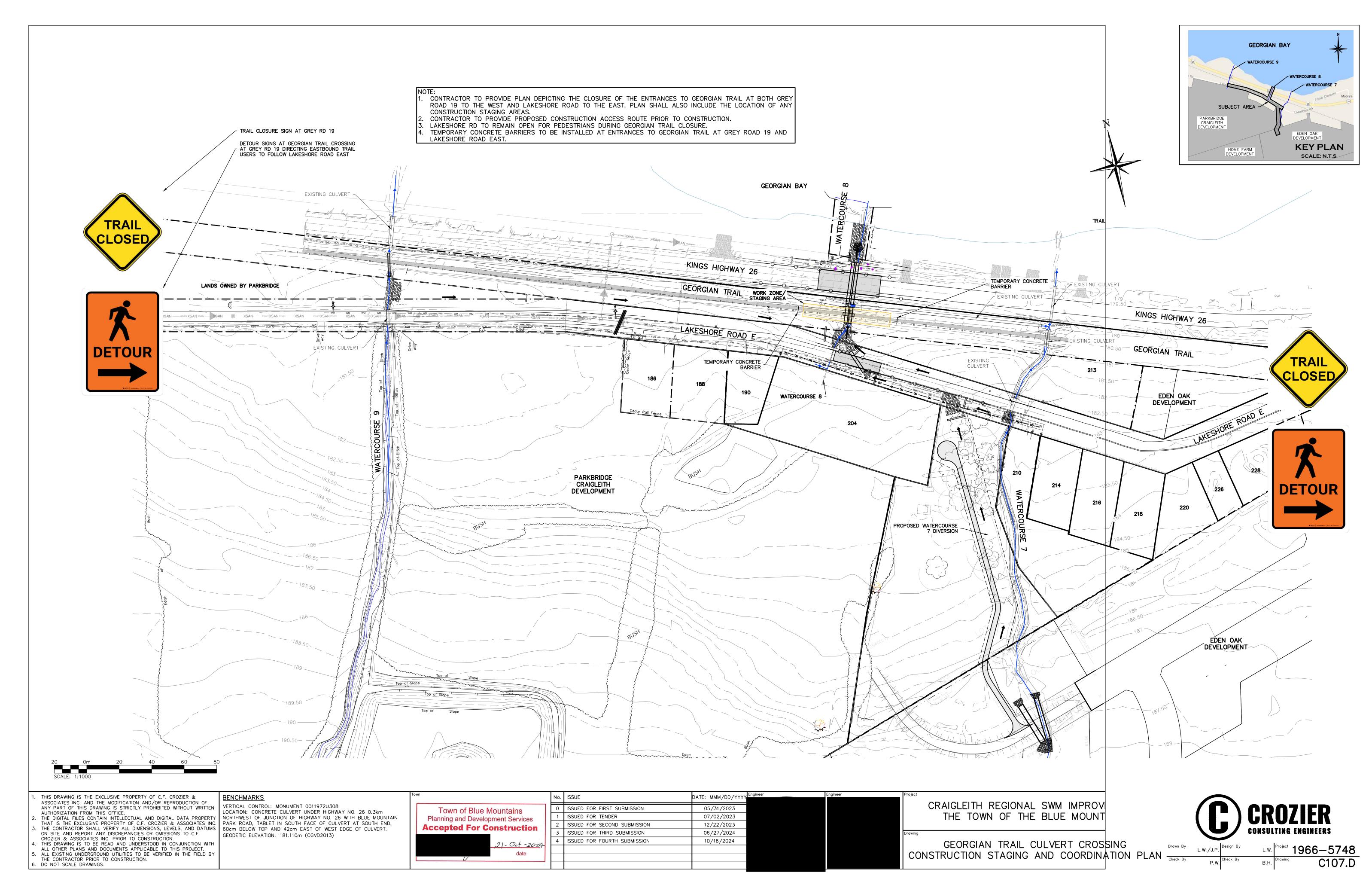
GEODETIC ELEVATION: 181.110m (CGVD2013)

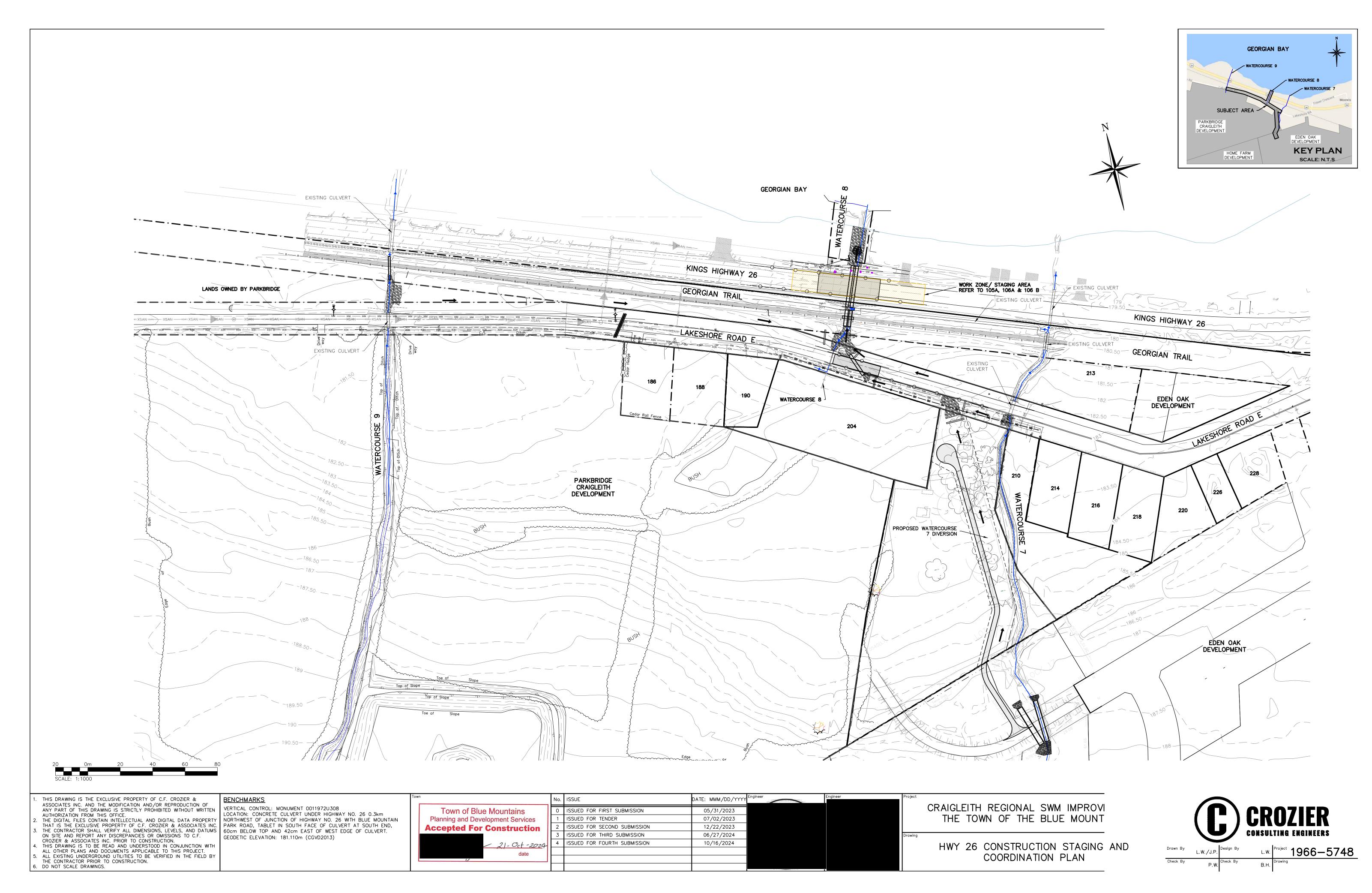
LOCATION: CONCRETE CULVERT UNDER HIGHWAY NO. 26 0.3km

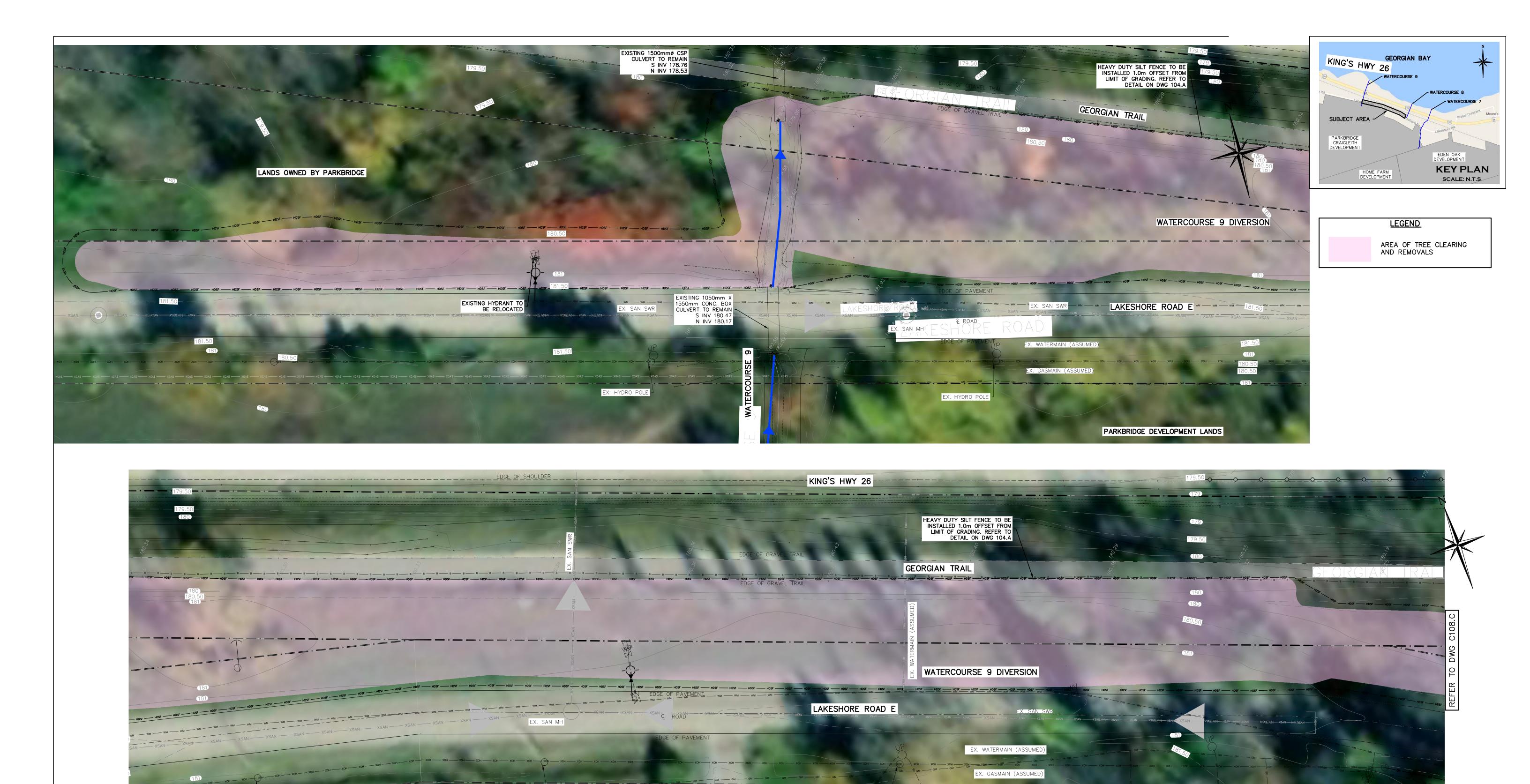


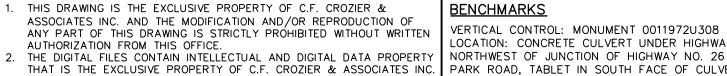












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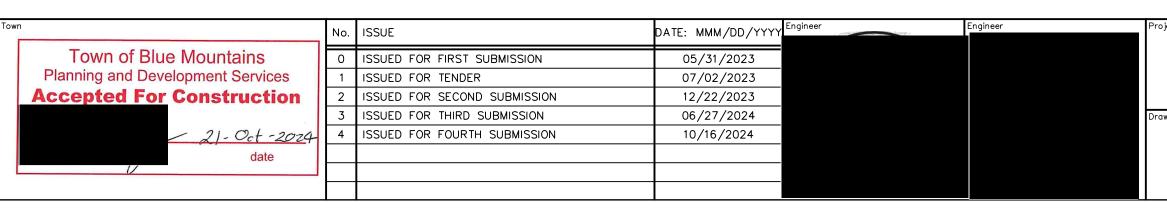
BENCHMARKS LOCATION: CONCRETE CULVERT UNDER HIGHWAY NO. 26 0.3km AUTHORIZATION FROM THIS OFFICE.

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LOCATION: CONCRETE CULVERT UNDER HIGHWAY NO. 26 0.3km
NORTHWEST OF JUNCTION OF HIGHWAY NO. 26 WITH BLUE MOUNTAIN
PARK ROAD, TABLET IN SOUTH FACE OF CULVERT AT SOUTH END, GEODETIC ELEVATION: 181.110m (CGVD2013)

EX. HYDRO POLE

PARKBRIDGE DEVELOPMENT LANDS



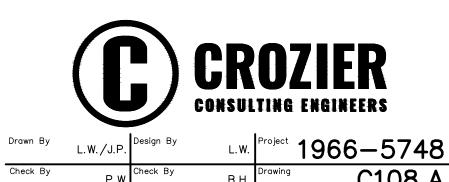
EXISTING RESIDENTIAL

CRAIGLEITH REGIONAL SWM IMPROVI THE TOWN OF THE BLUE MOUNT

EXISTING RESIDENTIAL

WATERCOURSE 9 TO WATERCOURSE 8 TREE CLEARING AND REMOVALS PLAN

EXISTING RESIDENTIAL

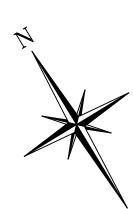


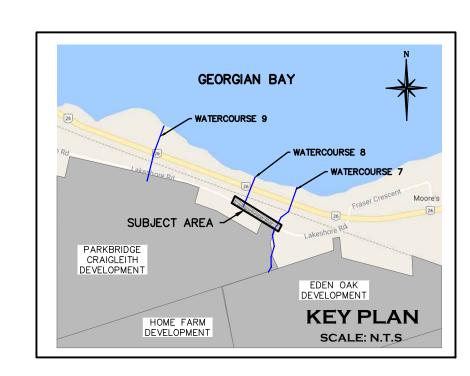


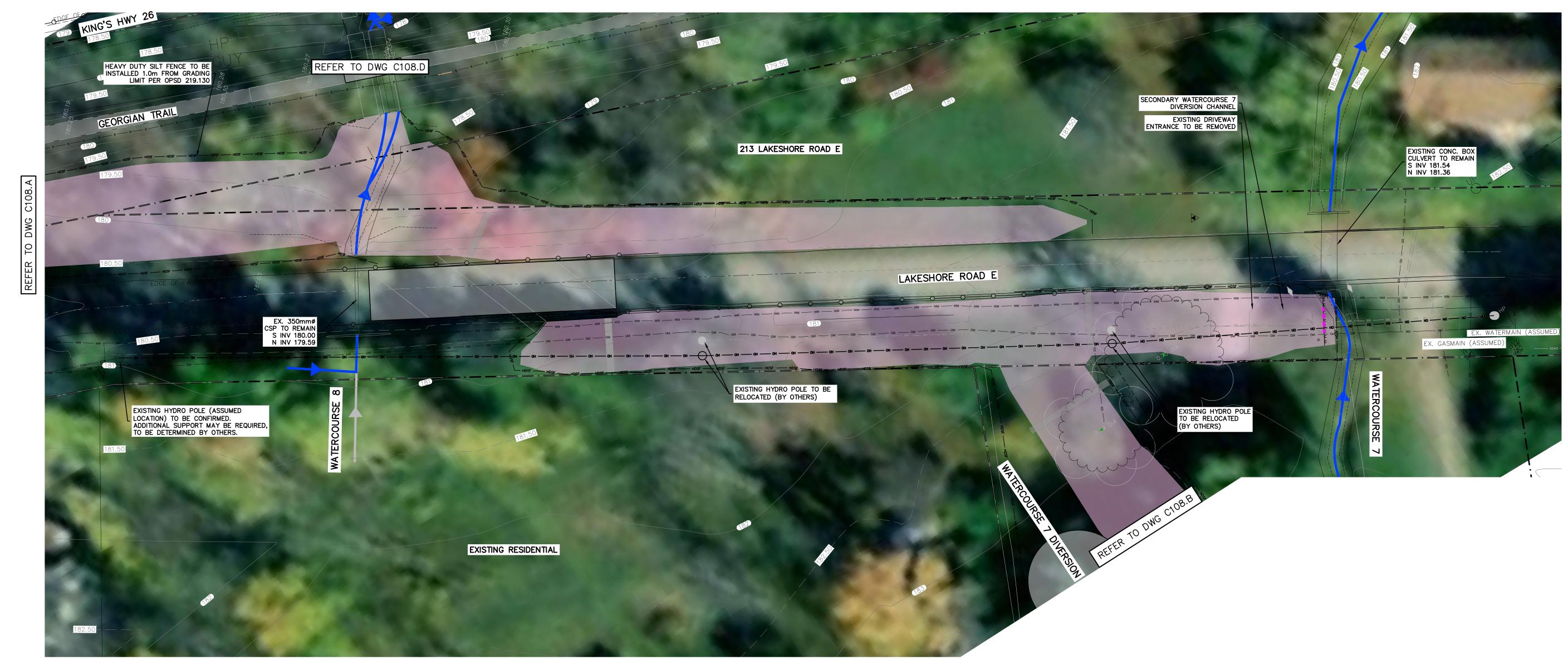
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THE CONTRACTOR PRIOR TO CONSTRUCTION.

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NORTHWEST OF JUNCTION OF HIGHWAY NO. 26 WITH BLUE MOUNTAIN GEODETIC ELEVATION: 181.110m (CGVD2013)

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| | Town of Blue Mountains |
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| | Accepted For Construction |
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| | 0 | ISSUED FOR FIRST SUBMISSION | 05/31/2023 | |
| | 1 | ISSUED FOR TENDER | 07/02/2023 | |
| | 2 | ISSUED FOR SECOND SUBMISSION | 12/22/2023 | |
| | 3 | ISSUED FOR THIRD SUBMISSION | 06/27/2024 | |
| 4 | 4 | ISSUED FOR FOURTH SUBMISSION | 10/16/2024 | |
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CRAIGLEITH REGIONAL SWM IMPROV THE TOWN OF THE BLUE MOUNT

WATERCOURSE 7 DIVERSION CHANNEL TREE CLEARING AND REMOVALS PLAN (LAKESHORE ROAD)



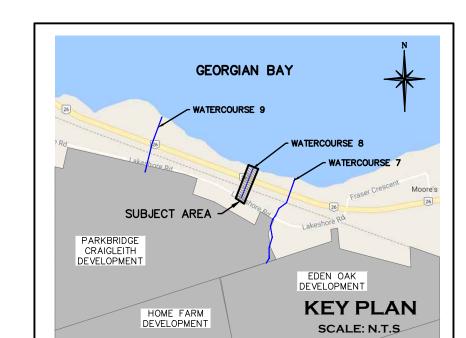
<u>LEGEND</u>

AND REMOVALS

AREA OF TREE CLEARING

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AREA OF TREE CLEARING AND REMOVALS



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BENCHMARKS

GEODETIC ELEVATION: 181.110m (CGVD2013)

| Town of Blue Mountains Planning and Development Services Accepted For Construction | | |
|--|--|--|
| <u>21- Oct -2024</u> date | | |

| | No. | ISSUE | DATE: MMM/DD/YYYY |
|---|-----|------------------------------|-------------------|
| | 0 | ISSUED FOR FIRST SUBMISSION | 05/31/2023 |
| | 1 | ISSUED FOR TENDER | 07/02/2023 |
| | 2 | ISSUED FOR SECOND SUBMISSION | 12/22/2023 |
| | 3 | ISSUED FOR THIRD SUBMISSION | 06/27/2024 |
| 4 | 4 | ISSUED FOR FOURTH SUBMISSION | 10/16/2024 |
| 4 | | | |
| | | | |
| | | | |

| | Engineer | Project |
|-----|----------|---------|
| | | |
| | | |
| | | |
| 86 | | |
| No. | | |
| | | Drawing |
| | | |
| 66 | | |
| | | |
| | | |
| | | |

WATERCOURSE 8 TREE CLEARING AND REMOVALS PLAN

CRAIGLEITH REGIONAL SWM IMPROV

THE TOWN OF THE BLUE MOUNT