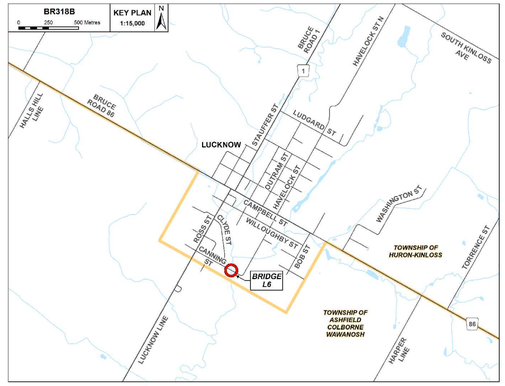
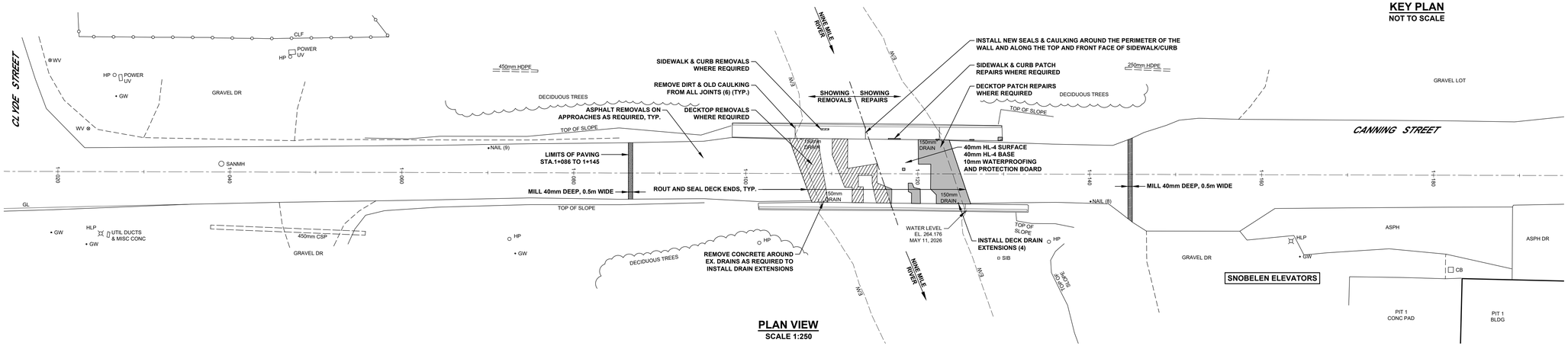
ENVIRONMENTAL PROTECTION NOTES:

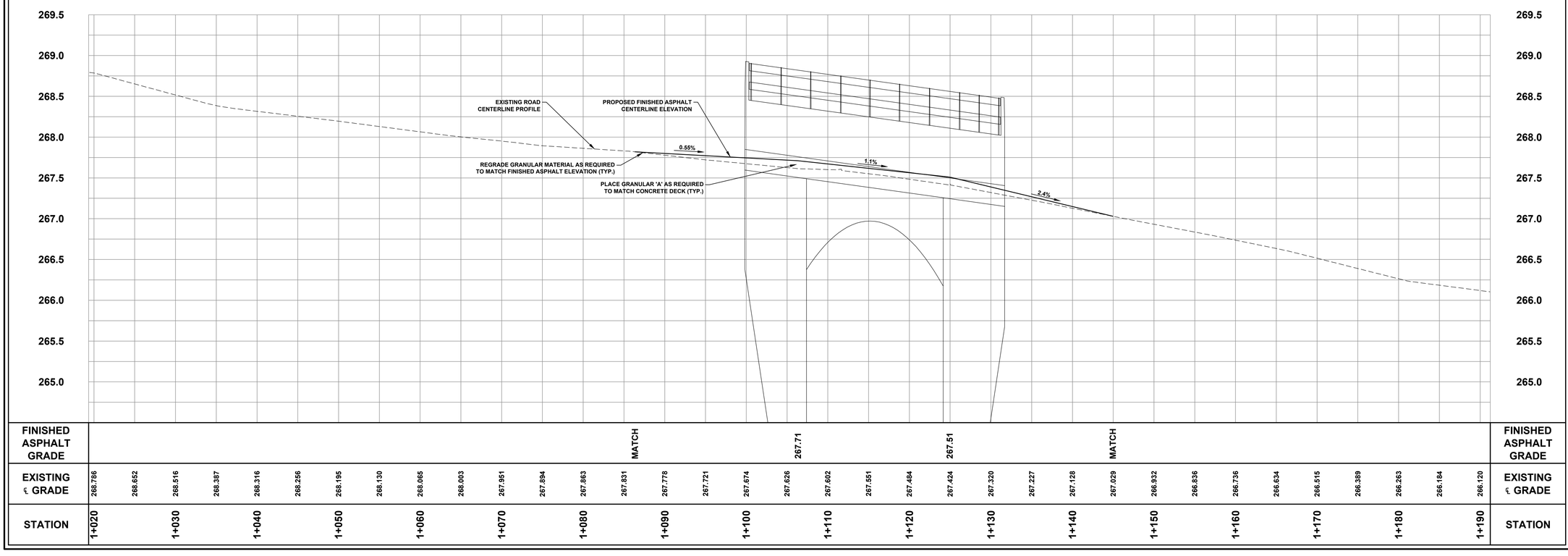
1. ENVIRONMENTAL PROTECTION MEASURES LISTED IN CONTRACT DOCUMENTS AND AS SPECIFIED BY THE CONSERVATION AUTHORITY AND DFO SHALL BE FOLLOWED.
2. ALL CONCRETE AND STEEL COMPONENTS REMOVED FROM THE EXISTING STRUCTURE SHALL BE REMOVED FROM THE SITE.
3. ALL IN STREAM WORK SHALL TAKE PLACE BETWEEN THE SPECIFIED TIME PERIOD AND IN ACCORDANCE WITH OTHER REQUIREMENTS OUTLINED IN THE APPROVAL FROM THE CONSERVATION AUTHORITY AND ANY OTHER GOVERNING BODY.
4. SEDIMENT AND EROSION CONTROL MEASURES, SUCH AS INSTALLATION OF SILT FENCING OR STRAW-BALE CHECK DAMS PLACED DOWN SLOPE OF ANY SILT MATERIALS STOCK PILED AND EXPOSED TOPSOIL, SHALL BE PLACED AND MAINTAINED AS DIRECTED BY THE CONTRACT ADMINISTRATOR DURING CONSTRUCTION AND UNTIL A SUITABLE CATCH OF GRASS IS ESTABLISHED.
5. DISTURBED AREAS NOT COVERED WITH RIPRAP OR A GRAVEL SURFACE SHALL BE COVERED WITH TOPSOIL AND RESTORED WITH SEED AND MULCH WHERE DIRECTED BY THE CONTRACT ADMINISTRATOR.
6. REFUELING OF EQUIPMENT SHALL BE PERFORMED IN AN ENVIRONMENTALLY RESPONSIBLE MANNER. WHERE PRACTICAL REFUELING SHALL BE DONE MORE THAN 30m FROM THE STREAM. ANY SIGNIFICANT SPILLS SHALL BE REPORTED TO THE MINISTRY OF ENVIRONMENT SPILLS ACTION CENTRE.
7. ANY SCAFFOLDING AND FALSE-WORK SYSTEM REQUIRED FOR THE REPAIRS SHALL HAVE A KICK PLATE AROUND THEM AND BE DESIGNED TO CATCH THE CONCRETE REMOVED AS PART OF THE REPAIRS. FOOTINGS MAY ONLY BE PLACED WITHIN THE WATERWAY DURING THE DESIGNATED TIME PERIOD OUTLINED IN THE APPROVAL FROM THE CONSERVATION AUTHORITY AND OTHER OTHER GOVERNING BODY.



KEY PLAN
NOT TO SCALE



PLAN VIEW
SCALE 1:250



STATION	1+020	1+030	1+040	1+050	1+060	1+070	1+080	1+090	1+100	1+110	1+120	1+130	1+140	1+150	1+160	1+170	1+180	1+190
EXISTING ℄ GRADE	268.786	268.652	268.516	268.387	268.316	268.256	268.195	268.130	268.065	268.003	267.951	267.894	267.863	267.831	267.778	267.721	267.674	267.626	267.602	267.551	267.484	267.424	267.320	267.227	267.128	267.029	266.932	266.836	266.736	266.634	266.515	266.389	266.263	266.184	266.120
FINISHED ASPHALT GRADE								MATCH			267.71			267.51												MATCH									

LEGEND

- SAN. or STM. — EXISTING SEWERS, SANITARY or STORM
- MH. CB. — MANHOLE and CATCHBASIN
- —W— WATERMAIN, FIRE HYDRANT
- —G— GASMAIN
- —T— UNDERGROUND TELEPHONE
- —H— UNDERGROUND HYDRO
- —TV— UNDERGROUND T.V. CABLE
- H B T H-B LP — UTILITY POLES

NOTES:

1. See drawings 2 & 3 for additional notes.

TRAFFIC CONTROL NOTES:

1. Work shall be completed with the road closed and no posted detour. See drawing #3 for details.

1:250 (5m 0 5m 10m)

1:25 (0.5m 0 0.5m 1m)

NOTE

The locations of existing underground utilities are shown in an approximate way only and have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work and agrees to be fully responsible for any damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

Design By: J.P.J. Checked By: C.M.K.

LICENSED PROFESSIONAL ENGINEER — J. P. JONES — 100500947 — 2026-06-05 — PROVINCE OF ONTARIO

LICENSED PROFESSIONAL ENGINEER — C. M. KERNIGHAN — 100559818 — 2026-06-05 — PROVINCE OF ONTARIO

No.	DATE	REVISION
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DRAWN BY M.A.B.

CELEBRATING 75 YEARS 1951-2026 — BMROSS engineering better communities

Goderich | Kincardine | Mount Forest | Sarnia

Huron-Kinloss

Township of Huron-Kinloss

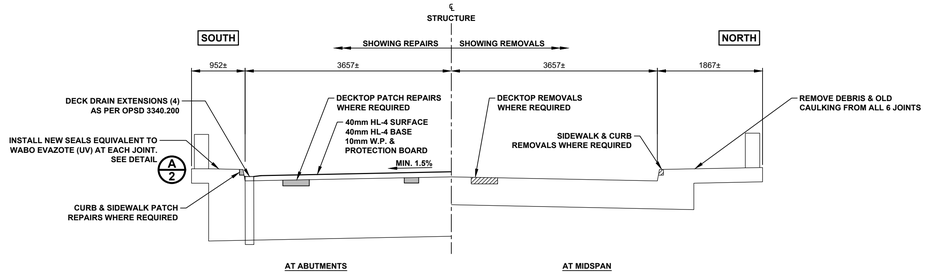
Canning Street Bridge Repairs

Plan and Profile from Sta. 1+020 to 1+190

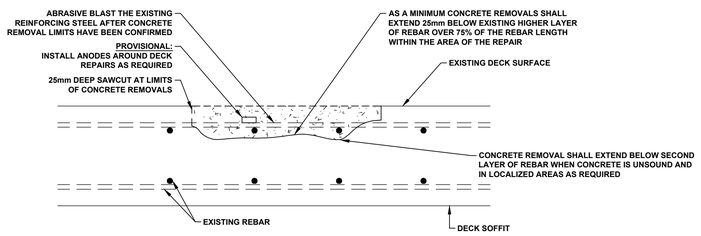
Structure No.	Project No.
L6	BR318B

Scale (24x36)
Horizontal : 1:250
Vertical : 1:25

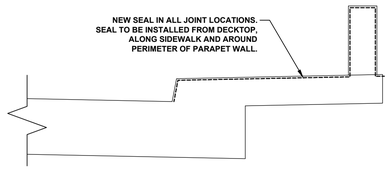
Drawing No. 1 of 3



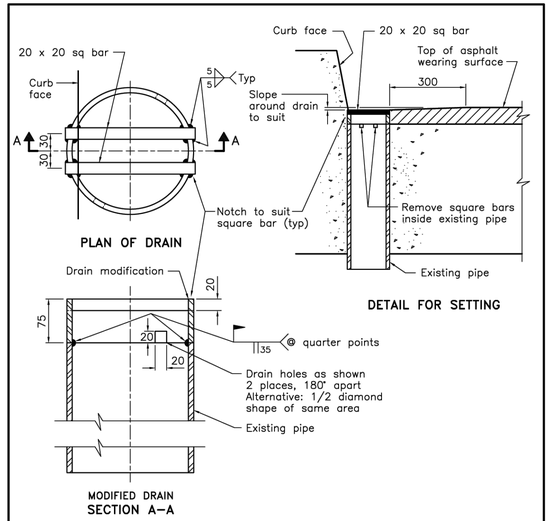
DECK SECTION
SCALE 1:50



TYPICAL DECK TOP REPAIR (TYPE A)
N.T.S.



DECK SECTION A 2
SCALE 1:25



NOTES
- A Dimensions of steel pipe extension shall match existing pipe dimensions.
- B Steel pipe for drain modification shall be according to ASTM A53M, Grade B.
- C Steel bar shall be according to CSA G40.21, Grade 300W.
- D Welding electrodes shall be of low hydrogen classification and according to CSA W59.
- E After fabrication, modification assembly shall be hot–dip galvanized as specified.
- F Field welds shall be painted with an approved zinc rich paint.
- G All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Apr 2022	Rev 3
DECK DRAINS WITH DOWNSPOUT MODIFICATION FOR ADDITION OF ASPHALT TO EXISTING STRUCTURE		OPSD 3340.200





DECK PLAN VIEW
SCALE 1:50

NOTES:
1. Work to be done in accordance with the latest revision of Ontario Provincial Standard Specifications for Structures.
2. Class of concrete:
   Patch Repairs: CSA exposure class C-2 (32 MPa compressive strength), nominal 12mm aggregate.
   Approval of the Contract Administrator's Engineer is required for all mix designs and admixtures.
3. Concrete removal areas shall be delineated by a 25mm deep saw cut, unless otherwise approved. Concrete removals shall be made by saw and chipping hammers. Removals shall be in accordance with OPSS 928.
4. Concrete patch repairs shall be wet cured for a minimum of 96 hours by leaving forms in place or applying wet burlap and vapour barrier.
5. Reinforcing steel shall be grade 400 deformed bars. Bars shall be pre-bent at suppliers plant.
6. Chamfer all exposed corners 25mm.
7. Cover to reinforcing steel 70mm ± 20mm except where noted.
8. Lap splice information (unless noted otherwise)
   Uncoated: 15M - 550mm; 20M - 690mm
9. Materials to be as identified on M.T.O. Designated Sources List. Epoxy grout shall be a 2-part epoxy.
10. Use a sand-cement slurry as a bonding agent for all deck patches.
11. Waterproofing and protection board shall be done in accordance with OPSS 914 and OPSD 3370.100.
12. Contractor to confirm dimensions of deck drains prior to ordering materials
13. Provisional anodes are to be Galvashield type XP4 or accepted equivalent. Anodes are to be installed as per the manufacturers recommendations.

1:50 — 1m 0 1m 2m
1:25 — 0.5m 0 0.5m 1m

Design By: J.P.J. Checked By: C.M.K.

LICENSED PROFESSIONAL ENGINEER — J. P. JONES — 100500947 — 2026-06-05 — PROVINCE OF ONTARIO

LICENSED PROFESSIONAL ENGINEER — C. M. KERNIGHAN — 100559818 — 2026-06-05 — PROVINCE OF ONTARIO

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		DRAWN BY M.A.B.

CELEBRATING 75 YEARS 1951–2026 — BMROSS engineering better communities

Goderich | Kincardine | Mount Forest | Sarnia

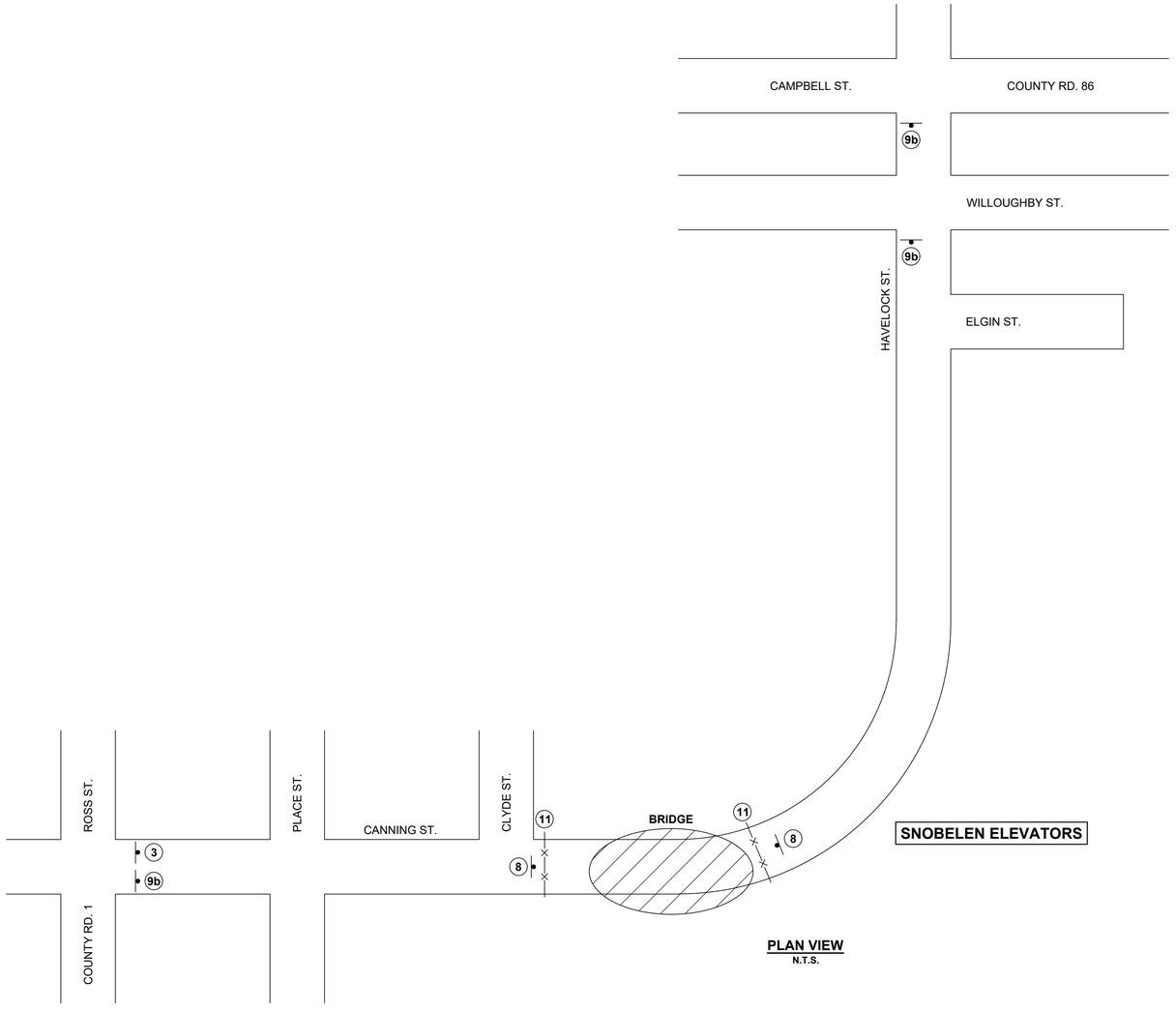
Huron-Kinloss

Township of Huron-Kinloss

Canning Street Bridge Repairs

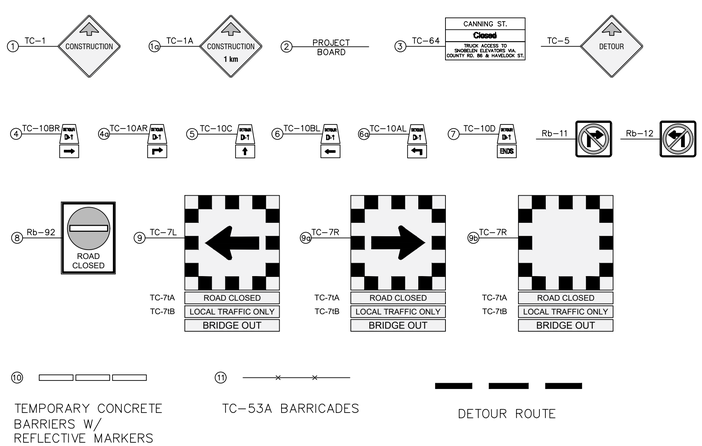
Deck Section & Paving Details

Structure No. L6	Project No. BR318B
Scale (24x36) As Shown	Drawing No. 2 of 3



PLAN VIEW
N.T.S.

LEGEND



NOTES:

1. THE ROAD IS TO BE CLOSED WITHIN THE CONSTRUCTION LIMITS TO TRAFFIC DURING THE CONSTRUCTION PERIOD.
2. ALL CONSTRUCTION SIGNS ARE TO BE PLACED IN ACCORDANCE WITH OTM BOOK 7.
3. TC-53As, TC-53Bs, OR TC-54s SHALL BE USED TO BLOCK ACCESS TO CLOSED PORTION OF ROADWAY.
4. WHILE A CONCEPTUAL PLAN HAS BEEN PROVIDED THE CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING A DETAILED PLAN AND OBTAIN ACCEPTANCE BY THE CITY AND THE CONTRACT ADMINISTRATOR. THE CONTRACTOR MAY BE REQUIRED TO MAKE SUITABLE REVISIONS TO OBTAIN ACCEPTANCE.
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7. MODIFICATIONS TO THE PROVIDED TRAFFIC CONTROL PLAN MAY BE REQUIRED TO ALLOW LOCAL TRAFFIC ACCESS TO PRIVATE DRIVEWAYS.
8. ALL SIGNS PLACED ON TRAVELLED ROADWAY SHALL HAVE REFLECTIVE TAPE ON THE BACKS OF THE SIGN.

CANNING ST.

Closed

TRUCK ACCESS TO
SNOBELEN ELEVATORS VIA.
COUNTY RD. 86 & HAVELOCK ST.

TC-64

Design By: J.P.J. Checked By: C.M.K.

LICENSED PROFESSIONAL ENGINEER
V. P. JONES
100500947
2026-06-05
PROVINCE OF ONTARIO

LICENSED PROFESSIONAL ENGINEER
C. M. KERNIGHAN
100559818
2026-06-05
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DRAWN BY M.A.B.

CELEBRATING 75 YEARS 1951-2026
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Huron-Kinloss

Township of Huron-Kinloss

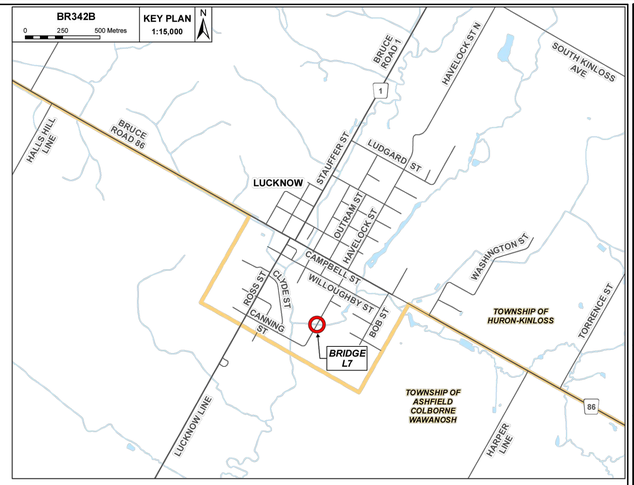
Canning Street Bridge Repairs

Traffic Control Plan

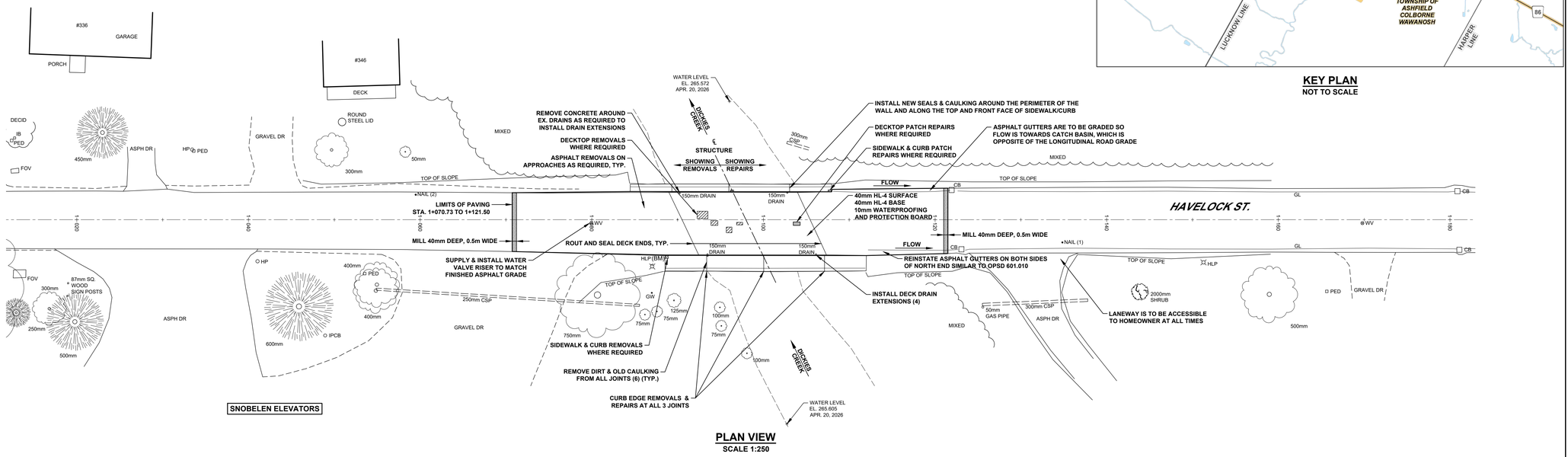
Structure No.	Project No.
L6	BR318B
Scale (24x36) Not to Scale	Drawing No. 3 of 3

ENVIRONMENTAL PROTECTION NOTES:

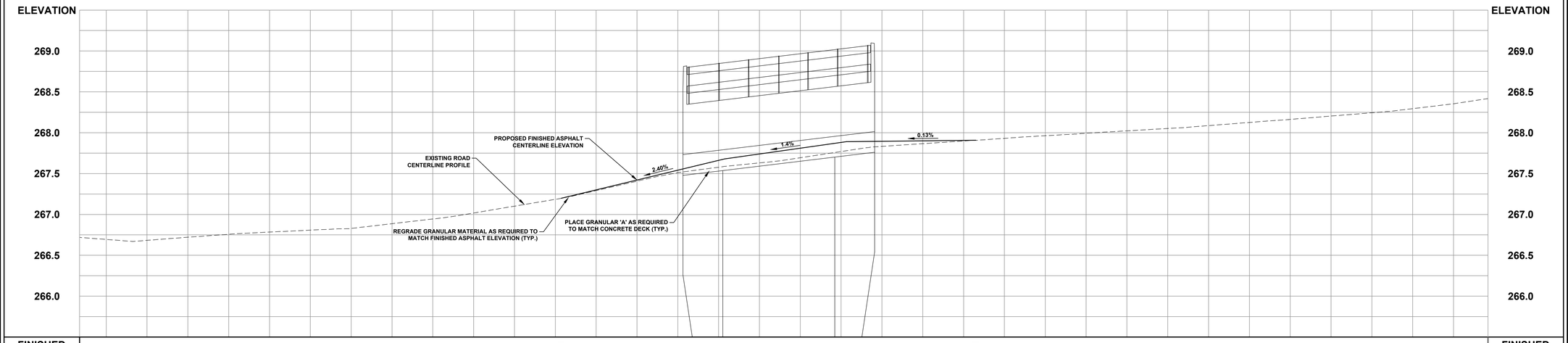
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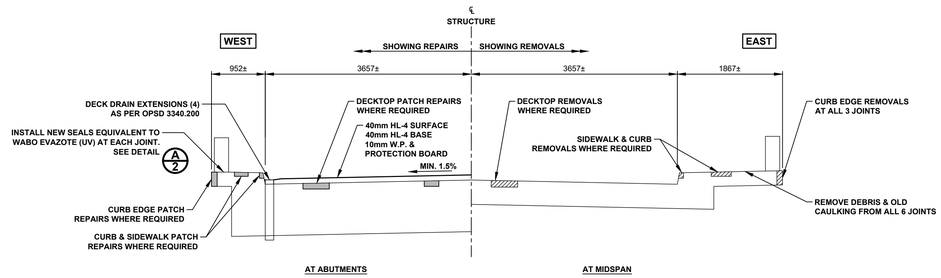
KEY PLAN
NOT TO SCALE



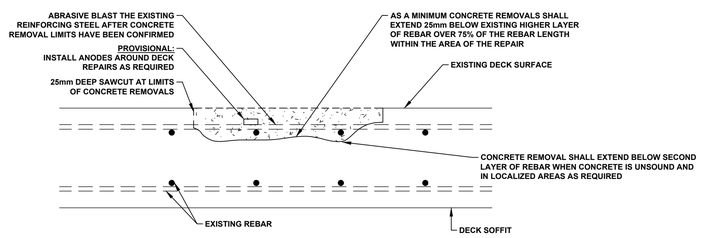
PLAN VIEW
SCALE 1:250



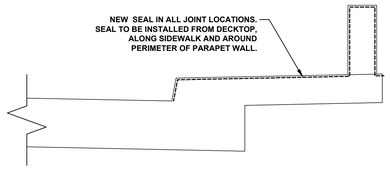
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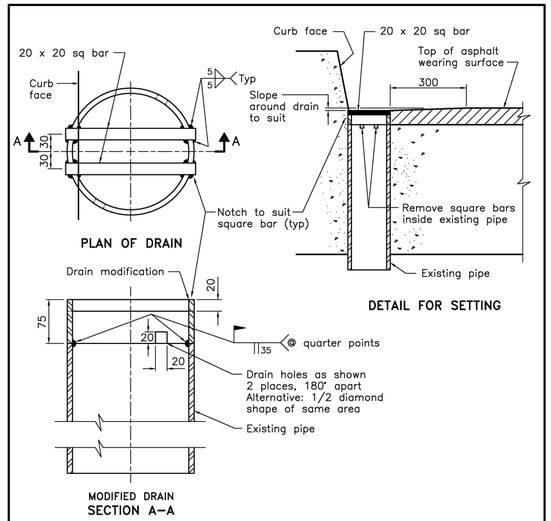
DECK SECTION
SCALE 1:50



TYPICAL DECK TOP REPAIR
(TYPE A)
N.T.S.



DECK SECTION A/2
SCALE 1:25



NOTES
A Dimensions of steel pipe extension shall match existing pipe dimensions.
B Steel pipe for drain modification shall be according to ASTM A53M, Grade B.
C Steel bar shall be according to CSA G40.21, Grade 300W.
D Welding electrodes shall be of low hydrogen classification and according to CSA W59.
E After fabrication, modification assembly shall be hot–dip galvanized as specified.
F Field welds shall be painted with an approved zinc rich paint.
G All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Apr 2022	Rev 3
DECK DRAINS WITH DOWNSPOUT MODIFICATION FOR ADDITION OF ASPHALT TO EXISTING STRUCTURE		OPSD 3340.200

NOTES:
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2. Class of concrete:
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   Approval of the Contract Administrator's Engineer is required for all mix designs and admixtures.
3. Concrete removal areas shall be delineated by a 25mm deep saw cut, unless otherwise approved. Concrete removals shall be made by saw and chipping hammers. Removals shall be in accordance with OPSS 928.
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5. Reinforcing steel shall be grade 400 deformed bars. Bars shall be pre-bent at suppliers plant.
6. Chamfer all exposed corners 25mm.
7. Cover to reinforcing steel 70mm ± 20mm except where noted.
8. Lap splice information (unless noted otherwise)
   Uncoated: 15M - 550mm; 20M - 690mm
9. Materials to be as identified on M.T.O. Designated Sources List. Epoxy grout shall be a 2-part epoxy.
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13. Provisional anodes are to be Galvashield type XP4 or accepted equivalent. Anodes are to be installed as per the manufacturers recommendations.

1:50 1m 0 1m 2m
1:25 0.5m 0 0.5m 1m

Design By: J.P.J. Checked By: C.M.K.

LICENSED PROFESSIONAL ENGINEER J. P. JONES 100500947 2026-06-05 PROVINCE OF ONTARIO

LICENSED PROFESSIONAL ENGINEER C. M. KERNIGHAN 100559818 2026-06-05 PROVINCE OF ONTARIO

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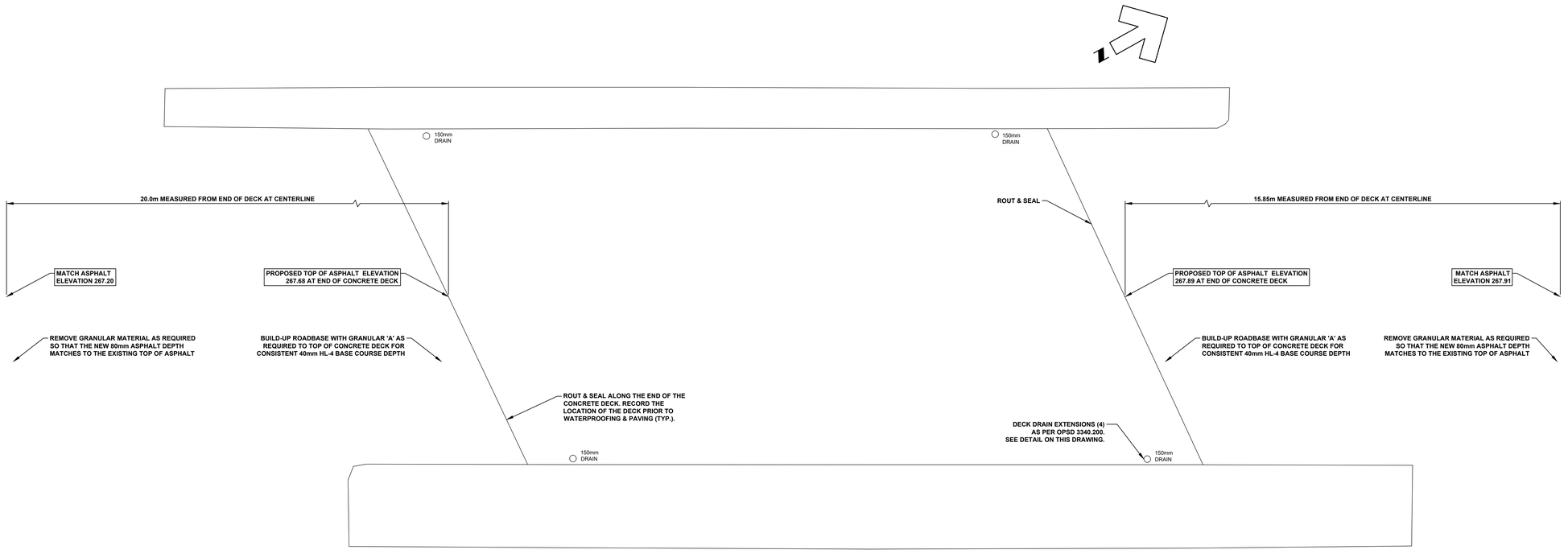
CELEBRATING 75 YEARS 1951–2026 BMROSS engineering better communities
Goderich | Kincardine | Mount Forest | Sarnia

Huron-Kinloss

Township of Huron-Kinloss

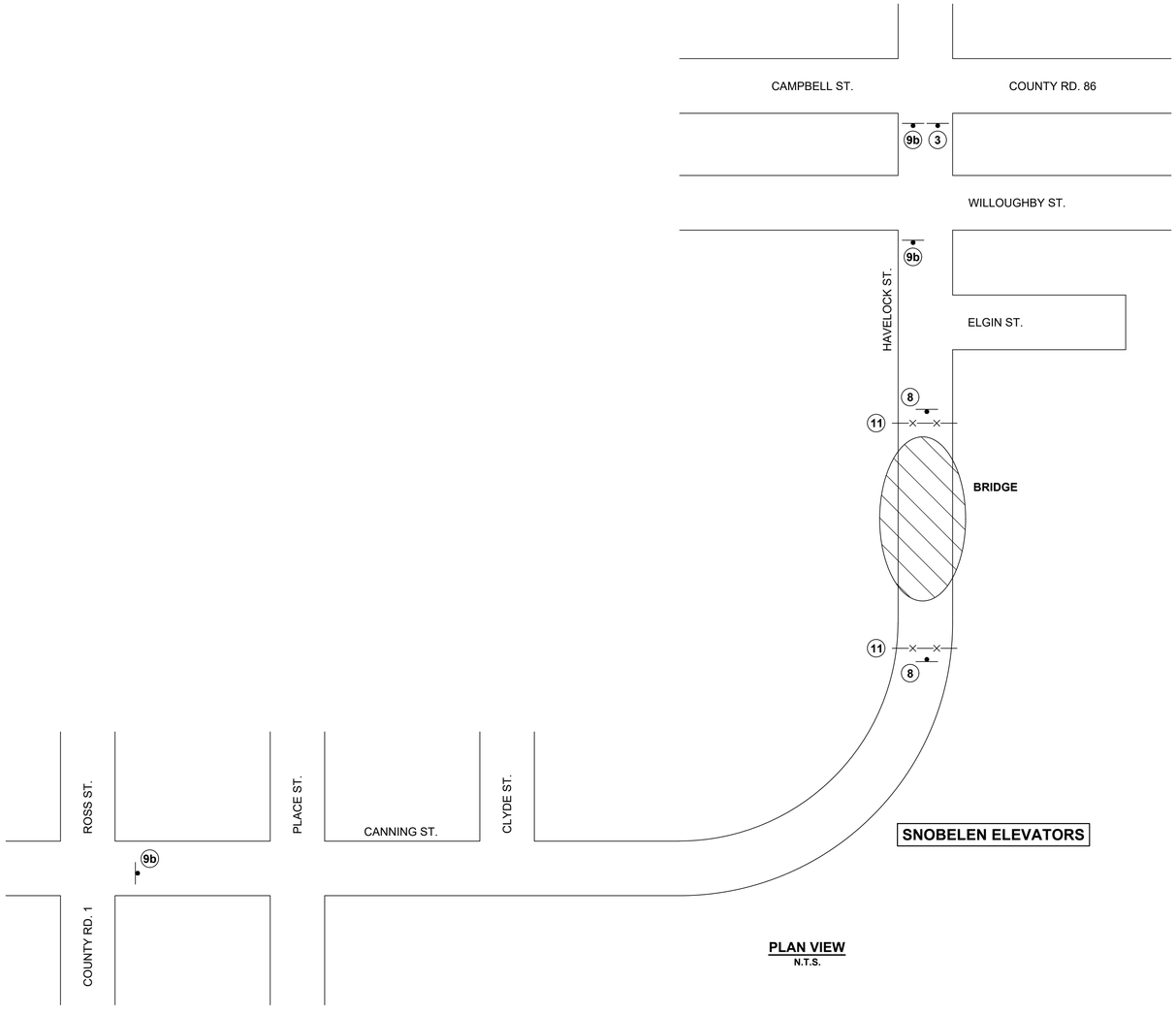
Havelock Street Bridge Repairs

Deck Section & Paving Details



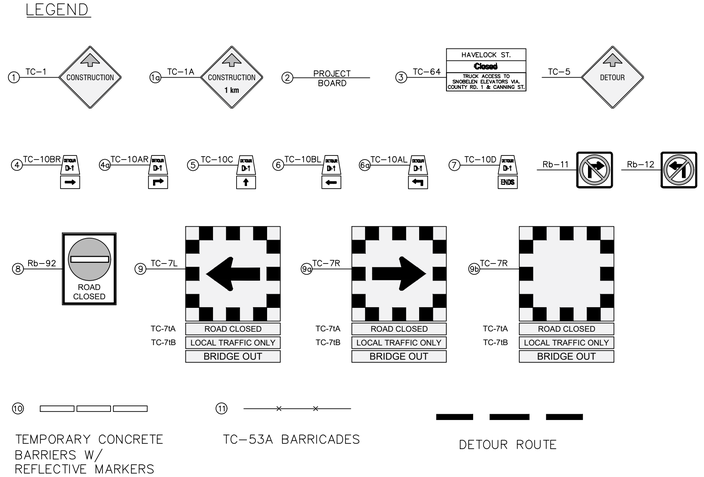
DECK PLAN VIEW
SCALE 1:50

Structure No.	Project No.
L7	BR342B
Scale (24x36) As Shown	Drawing No. 2 of 3



PLAN VIEW
N.T.S.

LEGEND



NOTES:

1. THE ROAD IS TO BE CLOSED WITHIN THE CONSTRUCTION LIMITS TO TRAFFIC DURING THE CONSTRUCTION PERIOD.
2. ALL CONSTRUCTION SIGNS ARE TO BE PLACED IN ACCORDANCE WITH OTM BOOK 7.
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HAVELOCK ST.

Closed

TRUCK ACCESS TO
SNOBELEN ELEVATORS VIA.
COUNTY RD. 1 & CANNING ST.

TC-64

Design By: J.P.J. Checked By: C.M.K.

LICENSED PROFESSIONAL ENGINEER
J. P. JONES
100500947
2026-06-05
PROVINCE OF ONTARIO

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C. M. KERNIGHAN
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Goderich | Kincardine | Mount Forest | Sarnia

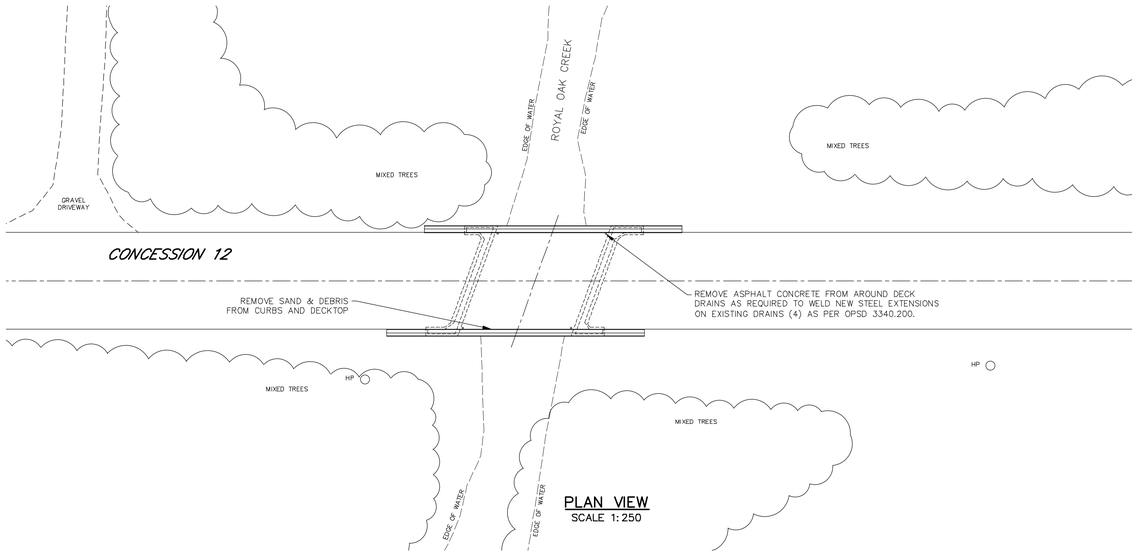
Huron-Kinloss

Township of Huron-Kinloss

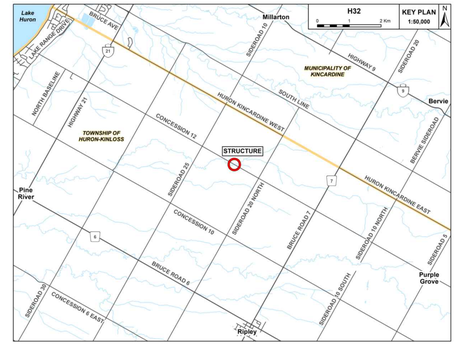
Havelock Street Bridge Repairs

Traffic Control Plan

Structure No.	Project No.
L7	BR342B
Scale (24x36) As Shown	Drawing No. 3 of 3



PLAN VIEW
SCALE 1:250

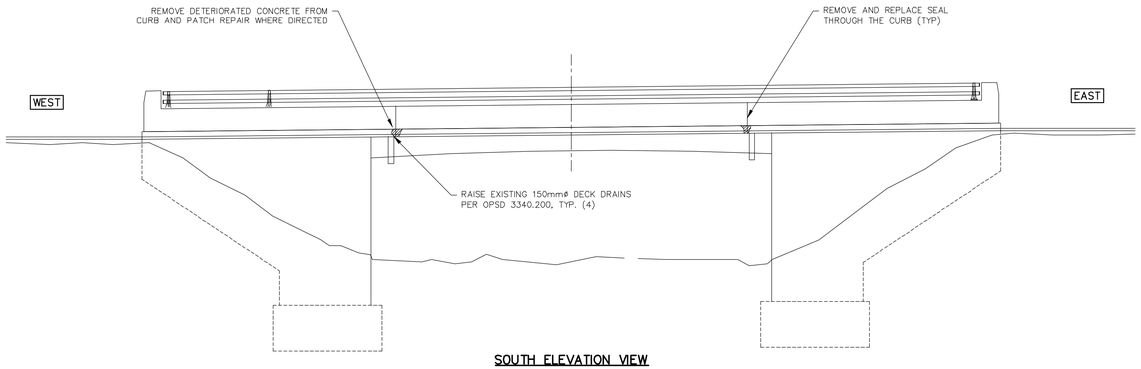


KEY PLAN
N.T.S.

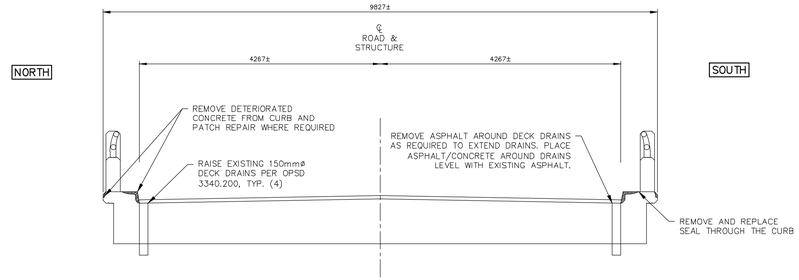
ENVIRONMENTAL PROTECTION NOTES:

1. ENVIRONMENTAL PROTECTION MEASURES LISTED IN CONTRACT DOCUMENTS AND AS SPECIFIED BY THE CONSERVATION AUTHORITY AND DFO SHALL BE FOLLOWED.
2. ALL CONCRETE AND STEEL COMPONENTS REMOVED FROM THE EXISTING STRUCTURE SHALL BE REMOVED FROM THE SITE.
3. ALL IN STREAM WORK SHALL TAKE PLACE BETWEEN THE SPECIFIED TIME PERIOD AND IN ACCORDANCE WITH OTHER REQUIREMENTS OUTLINED IN THE APPROVAL FROM THE CONSERVATION AUTHORITY AND ANY OTHER GOVERNING BODY.
4. SEDIMENT AND EROSION CONTROL MEASURES, SUCH AS INSTALLATION OF SILT FENCING OR STRAW-BALE CHECK DAMS PLACED DOWN SLOPE OF ANY SILT MATERIALS STOCK PILED AND EXPOSED TOPSOIL, SHALL BE PLACED AND MAINTAINED AS DIRECTED BY THE CONTRACT ADMINISTRATOR DURING CONSTRUCTION AND UNTIL A SUITABLE CATCH OF GRASS IS ESTABLISHED.
5. DISTURBED AREAS NOT COVERED WITH RIPRAP OR A GRAVEL SURFACE SHALL BE COVERED WITH TOPSOIL AND RESTORED WITH SEED AND MULCH WHERE DIRECTED BY THE CONTRACT ADMINISTRATOR.
6. REFUELING OF EQUIPMENT SHALL BE PERFORMED IN AN ENVIRONMENTALLY RESPONSIBLE MANNER. WHERE PRACTICAL REFUELING SHALL BE DONE MORE THAN 30m FROM THE STREAM. ANY SIGNIFICANT SPILLS SHALL BE REPORTED TO THE MINISTRY OF ENVIRONMENT SPILLS ACTION CENTRE.
7. ANY SCAFFOLDING AND FALSE-WORK SYSTEM REQUIRED FOR THE REPAIRS SHALL HAVE A KICK PLATE AROUND THEM AND BE DESIGNED TO CATCH THE CONCRETE REMOVED AS PART OF THE REPAIRS. FOOTINGS MAY ONLY BE PLACED WITHIN THE WATERWAY DURING THE DESIGNATED TIME PERIOD OUTLINED IN THE APPROVAL FROM THE CONSERVATION AUTHORITY AND OTHER OTHER GOVERNING BODY.
8. IMPACTS TO BREEDING BIRDS SHALL BE AVOIDED BY:
   - INSTALL EXCLUSIONARY MEASURES TO PREVENT BIRD NESTING BETWEEN APRIL 1 TO SEPTEMBER 1.
   - WORKING OUTSIDE OF THE BREEDING WINDOW SEPTEMBER 1 TO APRIL 1.
   - COMPLETING BIRD NEST SWEEPS AND AVOIDING WORK WITHIN 50m OF AN ACTIVE NEST
   - A COMBINATION OF THE ABOVE

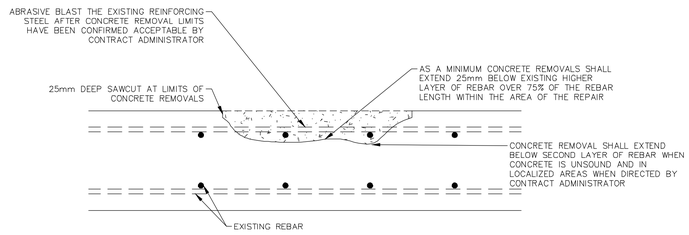
   EXCLUSIONARY MEASURES (I.E. NETTING OR TARPS) TO PREVENT BIRDS FROM NESTING ON THE STRUCTURE SHALL BE INSTALLED PRIOR TO THE MIGRATORY BIRD BREEDING SEASON (APRIL 1). NETTING TO HAVE OPENINGS NO LARGER THEN 3/4". MEASURES SHALL BE INSPECTED DAILY OR WEEKLY TO ENSURE THEY ARE MAINTAINED AND FUNCTIONING APPROPRIATELY. IF THE EXCLUSIONARY MEASURES ARE UNSUCCESSFUL AT PREVENTING BIRDS FROM NESTING ON THE STRUCTURE, A QUALIFIED ENVIRONMENTAL PROFESSIONAL SHALL BE CONTACT FOR FURTHER ADVICE.



SOUTH ELEVATION VIEW
SCALE 1:75



DECK SECTION
SCALE 1:50



TYPICAL REPAIR (TYPE A)
N.T.S.

NOTES:

1. Work to be done in accordance with the latest revision of Ontario Provincial Standard Specifications for Structures.
2. Class of concrete:

   Patch Repairs: CSA exposure class C-2 (32 MPa compressive strength) or accepted equivalent.

   Approval of the Contract Administrator's Engineer is required for all mix designs and admixtures.
3. Concrete removal areas shall be delineated by a 25mm deep saw cut, unless otherwise approved. Concrete removals shall be made by saw and chipping hammers. Removals shall be in accordance with OPSS 928.
4. Existing reinforcing steel within removal areas is to be maintained.
5. All removals are to be taken from site to an approved licensed facility.
6. Concrete patch repairs shall be wet cured for a minimum of 96 hours by leaving forms in place or applying wet burlap and vapour barrier.
7. Reinforcing steel shall be grade 400 deformed bars. Bars shall be pre-bent at suppliers plant.
8. Chamfer all exposed corners 25mm.
9. Cover to reinforcing steel 70mm ± 20mm except where noted.
10. Lap splice information (unless noted otherwise)

    Uncoated: 15M – 520mm; 20M – 690mm
11. Materials to be as identified on M.T.O. Designated Sources List. Epoxy grout shall be a 2-part epoxy.
12. Contractor to confirm dimensions of deck drains prior to ordering materials.

1:250 5m 0 5m 10m
1:75 1m 0 1m 2m 3m 4m
1:50 1m 0 1m 2m

CONSTRUCTION NORTH

Design By: J.P.J. Checked By: C.M.K.

LICENSED PROFESSIONAL ENGINEER
J. P. JONES
100500947
2026-06-05
PROVINCE OF ONTARIO

LICENSED PROFESSIONAL ENGINEER
C. M. KERNIGHAN
100559818
2026-06-05
PROVINCE OF ONTARIO

No.	DATE	REVISION
1.	April 27, 2026	Issued for Approval
2.	May 22, 2026	Issued for Township Review
3.	June 5, 2026	Issued for Tender

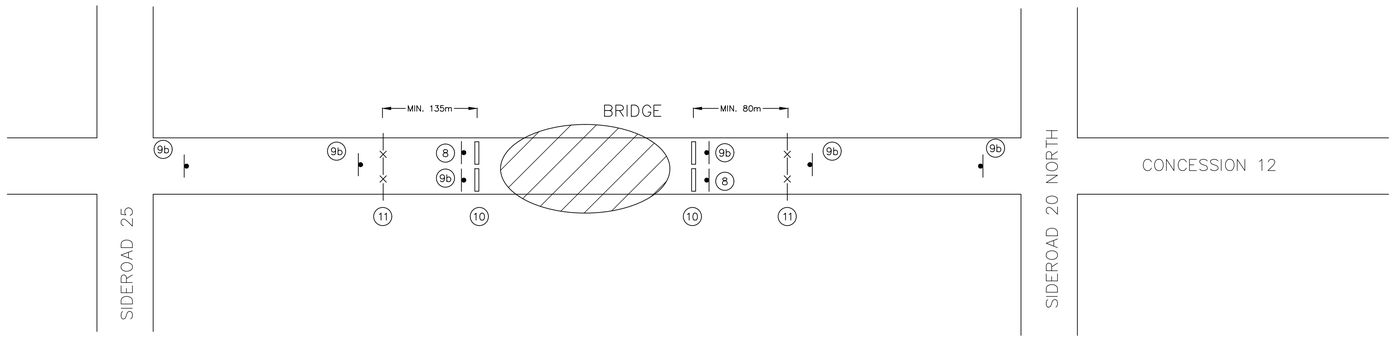
CELEBRATING 75 YEARS 1951-2026
BMROSS engineering better communities
Goderich | Kincardine | Mount Forest | Sarnia

Huron-Kinloss

Township of Huron-Kinloss

McDonald Bridge Repairs
Plan and Details

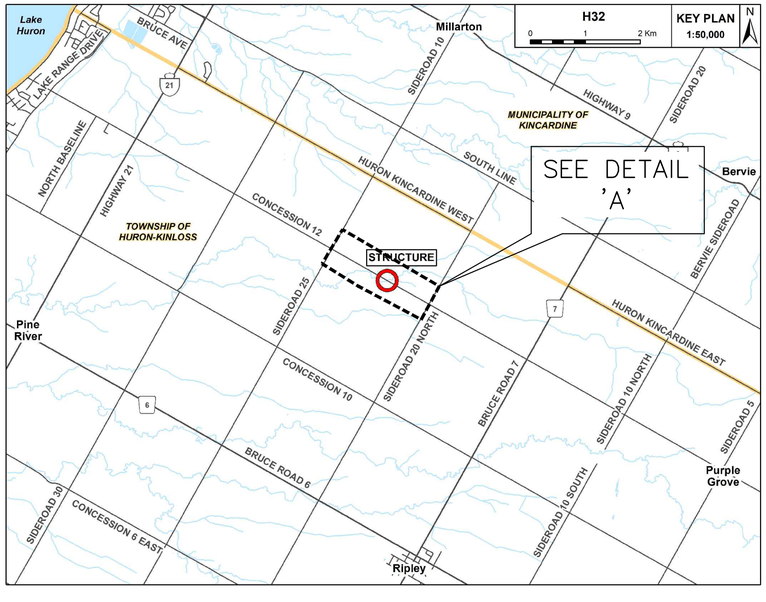
Structure No.	Project No.
H32	BR204B
Scale (24x36): As Shown	Drawing No. 1 of 2



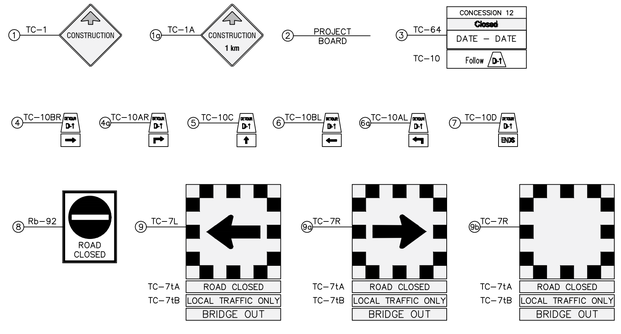
DETAIL 'A'
N.T.S.

NOTES:

1. THE ROAD IS TO BE CLOSED WITHIN THE CONSTRUCTION LIMITS TO TRAFFIC DURING THE CONSTRUCTION PERIOD.
2. ALL CONSTRUCTION SIGNS ARE TO BE PLACED IN ACCORDANCE WITH OTM BOOK 7.
3. SHADING ON THE SIGNBOARDS DEPICTED HEREIN REPRESENTS THE REQUIREMENT TO PROVIDE ORANGE REFLECTIVE BACKGROUND COLOUR.
4. CONFIRM TC-64 SIGN LOCATIONS ON SITE WITH CONTRACT ADMINISTRATOR. TC-64s SHALL BE INSTALLED AT LEAST TWO WEEKS PRIOR TO CLOSING DATE.
5. TC-53As, TC-53Bs, OR TC-54s SHALL BE USED TO BLOCK ACCESS TO CLOSED PORTION OF ROADWAY.
6. WHILE A CONCEPTUAL PLAN HAS BEEN PROVIDED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING A DETAILED PLAN AND OBTAIN ACCEPTANCE BY THE TOWNSHIP AND THE CONTRACT ADMINISTRATOR. THE CONTRACTOR MAY BE REQUIRED TO MAKE SUITABLE REVISIONS TO OBTAIN ACCEPTANCE.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES.
8. DETOUR SIGNAGE SHALL BE MOUNTED ON POSTS IN SHOULDER OF ROAD. ROAD CLOSURE SIGNS MOUNTED ON ROADWAY MAY BE PLACED WITH BASES AND SAND BAGS.
9. MODIFICATIONS TO THE PROVIDED TRAFFIC CONTROL PLAN MAY BE REQUIRED TO ALLOW LOCAL TRAFFIC ACCESS TO PRIVATE DRIVEWAYS.
10. ALL SIGNS PLACED ON TRAVELED ROADWAY SHALL HAVE REFLECTIVE TAPE ON THE BACKS OF THE SIGN.



TRAFFIC CONTROL PLAN
N.T.S.



NOTES:

1. SEE DRAWING 1 FOR ADDITIONAL NOTES.

CONSTRUCTION NORTH

Design By: J.P.J. Checked By: C.M.K.

LICENSED PROFESSIONAL ENGINEER
J. P. JONES
100500947
2026-06-05
PROVINCE OF ONTARIO

LICENSED PROFESSIONAL ENGINEER
C. M. KERNIGHAN
100559818
2026-06-05
PROVINCE OF ONTARIO

No.	DATE	REVISION
1.	June 5, 2026	Issued for Tender

CELEBRATING 75 YEARS 1951-2026 BMROSS engineering better communities

Goderich | Kincardine | Mount Forest | Sarnia

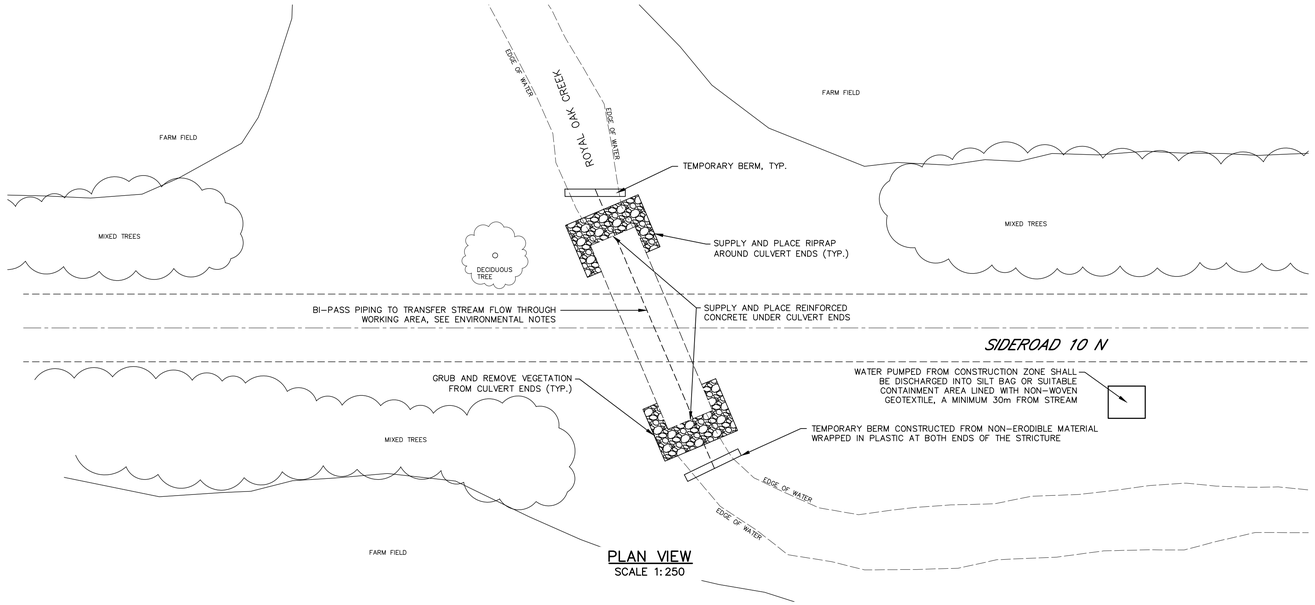
Huron-Kinloss

Township of Huron-Kinloss

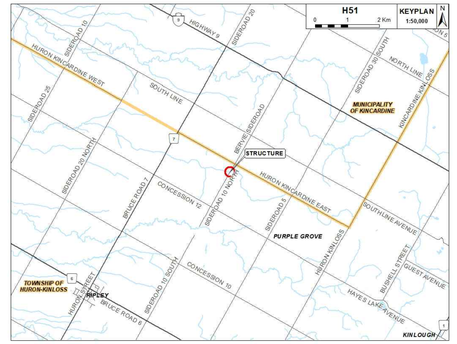
McDonald Bridge Repairs

Traffic Control

Structure No.	Project No.
H32	BR204B
Scale (24x36) N.T.S.	Drawing No. 2 of 2



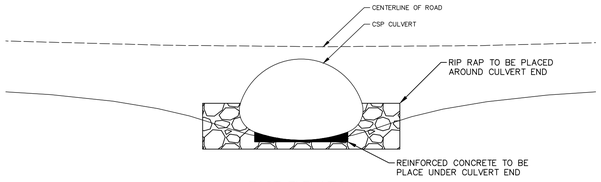
PLAN VIEW
SCALE 1:250



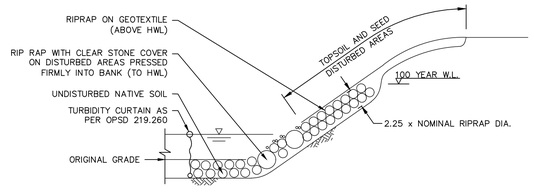
KEY PLAN
N.T.S.

ENVIRONMENTAL PROTECTION NOTES:

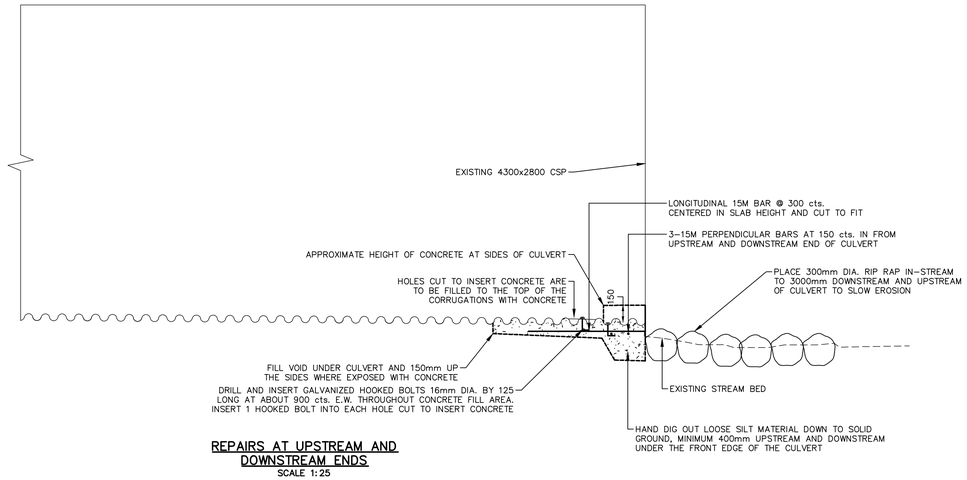
1. TEMPORARY STREAM DIVERSION SHALL BE PROVIDED DURING CONSTRUCTION WITH BERMS AT EACH END OF THE CONSTRUCTION AREA AND A DIVERSION PIPE WITH A MINIMUM DIAMETER OF 1200mm (OR EQUIVALENT OPENING SIZE), AS ILLUSTRATED ON THE DRAWING & OPSD 221.010 MOD. SOME STREAM FLOW SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR MAY NOT RELY ON PUMPING ALONE.
2. ALL FISH AND AQUATIC LIFE (E.G. AMPHIBIANS) ARE TO BE REMOVED FROM THE CONSTRUCTION AREA AFTER THE BERMS ARE INSTALLED AND BEFORE WORKS ON THE CULVERT HAVE STARTED. SALVAGED FISH AND AQUATIC LIFE SHALL BE NET COLLECTED OR MINNOW TRAPPED AND RELEASED UNHARMED DOWNSTREAM OF THE CONSTRUCTION AREA. SALVAGE AND RELEASE SHALL BE IN ACCORDANCE WITH THE MNR LICENSE TO COLLECT FISH AND WILDLIFE COLLECTOR'S AUTHORIZATION.
3. DE-WATERING A STREAM CROSSING SHALL BE DONE IN A CONTROLLED MANNER TO AVOID DISCHARGING TURBID WATER INTO THE STREAM. PUMPED WATER FROM THE CONSTRUCTION AREA SHALL BE DISCHARGED TO A SILT BAG OR SUITABLE SILT CONTAINMENT AREA LOCATED AT LEAST 30m FROM THE STREAM. THE SILT MATERIAL SHALL BE CLEANED UP AND REMOVED FROM SITE AT THE COMPLETION OF THE PROJECT.
4. ALL CONCRETE AND STEEL COMPONENTS FROM THE EXISTING STRUCTURE SHALL BE REMOVED AS OUTLINED IN THE SPECIAL PROVISIONS.
5. ALL IN-STREAM WORK SHALL TAKE PLACE BETWEEN THE SPECIFIED TIME PERIOD AND OTHER REQUIREMENTS OUTLINED IN THE APPROVAL FROM THE CONSERVATION AUTHORITY AND ANY OTHER GOVERNING BODY.
6. SEDIMENT AND EROSION CONTROL MEASURES, SUCH AS INSTALLATION OF SILT FENCING OR STRAW-BALE CHECK DAMS PLACED DOWNSLOPE OF ANY SILT MATERIALS STOCK PILED AND EXPOSED TOPSOIL, SHALL BE PLACED AND MAINTAINED IN ACCORDANCE WITH OPSS.MUNI 805, OR AS DIRECTED BY THE CONTRACT ADMINISTRATOR, FOR THE DURATION OF CONSTRUCTION AND UNTIL A SUITABLE CATCH OF GRASS IS ESTABLISHED.
7. DISTURBED AREAS NOT COVERED WITH RIPRAP OR A GRAVEL SURFACE SHALL BE COVERED WITH TOPSOIL AND RESTORED WITH SEED AND MULCH AS SPECIFIED IN THE CONTRACT DOCUMENTS AND APPROVED BY THE CONSERVATION AUTHORITY AND THE TOWNSHIP.
8. REFUELING OF EQUIPMENT SHALL BE PERFORMED IN AN ENVIRONMENTALLY RESPONSIBLE MANNER. WHERE PRACTICAL REFUELING SHALL BE DONE MORE THAN 30m FROM THE STREAM. ANY SIGNIFICANT SPILLS SHALL BE REPORTED TO THE MINISTRY OF ENVIRONMENT SPILLS ACTION CENTRE.
9. THE CONTRACTOR SHALL HAVE CONTINGENCY PLANS IN PLACE TO MINIMIZE THE AMOUNT OF SILT RELEASED SHOULD A MAJOR STORM EVENT TAKE PLACE DURING THE CONSTRUCTION PERIOD.
10. WHILE A PROPOSED DE-WATERING PLAN AND OUTLINE OF SEDIMENT CONTROL MEASURES ARE PROVIDED, ANY CHANGES THE CONTRACTOR WOULD LIKE TO PROPOSE AND CLARIFICATION OF THE REQUIREMENTS WILL BE DISCUSSED AT A PRE-CONSTRUCTION MEETING WITH THE CONSERVATION AUTHORITY.
11. THE LOCATION OF DE-WATERING AND SEDIMENT CONTROL MEASURES ARE SHOWN IN AN APPROXIMATE WAY, THE EXACT LOCATION OF COMPONENTS IN THE FIELD MAY VARY FROM THE LOCATION SHOWN ON THE DRAWING.



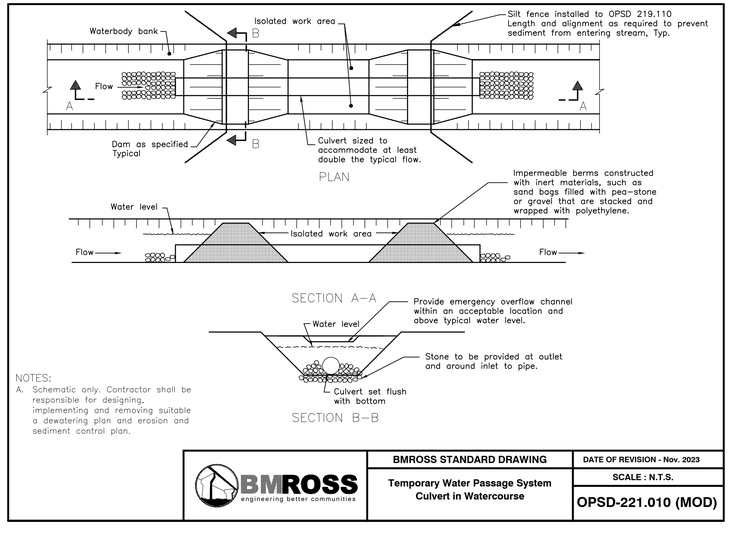
EAST ELEVATION
SCALE 1:100



PARTIAL STREAM SECTION
N.T.S.



REPAIRS AT UPSTREAM AND DOWNSTREAM ENDS
SCALE 1:25



NOTES:
A. Schematic only. Contractor shall be responsible for designing, implementing and removing suitable a dewatering plan and erosion and sediment control plan.

BMROSS engineering better communities	BMROSS STANDARD DRAWING	DATE OF REVISION - Nov. 2023
	Temporary Water Passage System Culvert in Watercourse	SCALE : N.T.S.
		OPSD-221.010 (MOD)

GENERAL NOTES:

1. Work to be done in accordance with the latest revision of ontario provincial standard specifications for structures.
2. Concrete shall meet the minimum requirements of CSA A23.1 Exposure Class C-2 (32MPa @ 28 Days).
3. Concrete cover to reinforcing 70mm±10mm except where noted otherwise.
4. Reinforcing steel to be grade 400, pre-bend bars at suppliers plant.
4. Chamfer all exposed corners 25mm.
5. Materials to be as identified on M.T.O. Designated Sources List.
6. BAR LAP INFORMATION

   15M BAR – 520mm
7. E.F. – DENOTES EACH FACE

   T&B – DENOTES TOP AND BOTTOM

   I.F. – DENOTES INSIDE FACE

   O.F. – DENOTES OUTSIDE FACE

   @ 300 – DENOTES SPACED AT 300 CENTRES
8. Fasteners shall be grade A325, hot dip galvanized.

1:250 5m 0 5m 10m
1:100 1m 0 1m 2m 3m 4m 5m
1:25 0.5m 0 0.5m 1m

CONSTRUCTION NORTH

Design By: J.P.J. Checked By: C.M.K.

LICENSED PROFESSIONAL ENGINEER J. P. JONES 100500947 2026-06-05 PROVINCE OF ONTARIO

LICENSED PROFESSIONAL ENGINEER C. M. KERNIGHAN 100559818 2026-06-05 PROVINCE OF ONTARIO

No.	DATE	REVISION
1.	May 7, 2026	Issued for Approvals
2.	May 22, 2026	Issued for Township Review
3.	June 5, 2026	Issued for Tender and reissued for approvals

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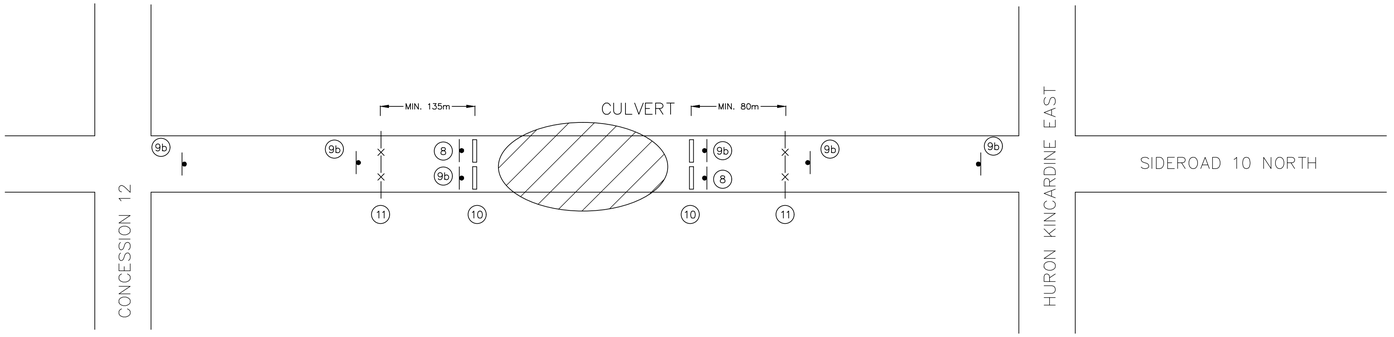
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Huron-Kinloss

Township of Huron-Kinloss

Sideroad 10 Culvert Repairs Plan and Details

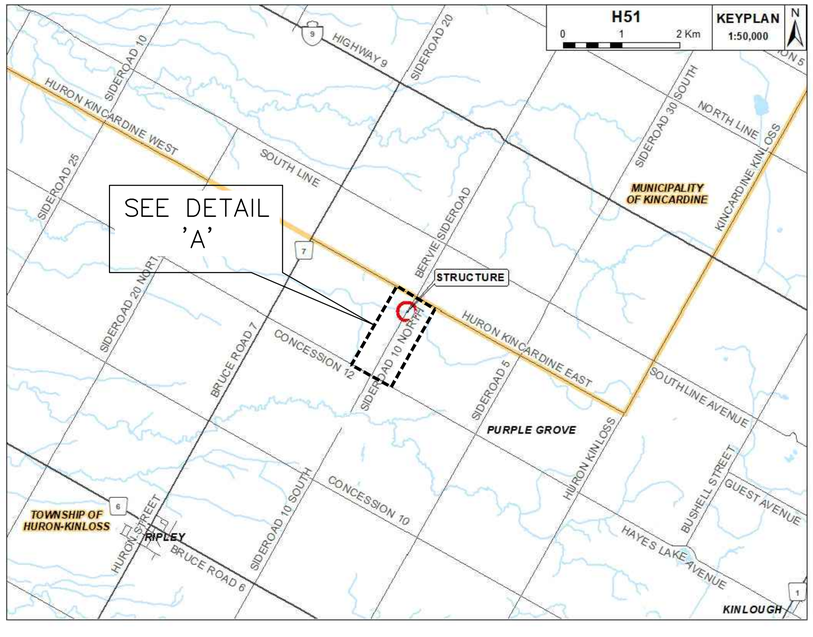
Structure No. H51	Project No. BR1650
Scale (24x36) As Shown	Drawing No. 1 of 2



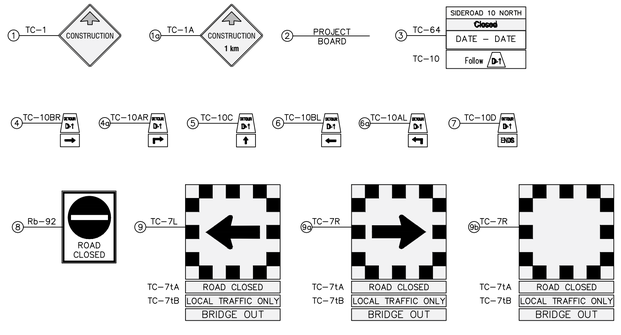
DETAIL 'A'
N.T.S.

NOTES:

1. THE ROAD IS TO BE CLOSED WITHIN THE CONSTRUCTION LIMITS TO TRAFFIC DURING THE CONSTRUCTION PERIOD.
2. ALL CONSTRUCTION SIGNS ARE TO BE PLACED IN ACCORDANCE WITH OTM BOOK 7.
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4. CONFIRM TC-64 SIGN LOCATIONS ON SITE WITH CONTRACT ADMINISTRATOR. TC-64s SHALL BE INSTALLED AT LEAST TWO WEEKS PRIOR TO CLOSING DATE.
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9. MODIFICATIONS TO THE PROVIDED TRAFFIC CONTROL PLAN MAY BE REQUIRED TO ALLOW LOCAL TRAFFIC ACCESS TO PRIVATE DRIVEWAYS.
10. ALL SIGNS PLACED ON TRAVELED ROADWAY SHALL HAVE REFLECTIVE TAPE ON THE BACKS OF THE SIGN.



TRAFFIC CONTROL PLAN
N.T.S.



NOTES:

1. SEE DRAWING 1 FOR ADDITIONAL NOTES.

CONSTRUCTION NORTH

Design By: J.P.J. Checked By: C.M.K.

LICENSED PROFESSIONAL ENGINEER
J. P. JONES
100500947
2026-06-05
PROVINCE OF ONTARIO

LICENSED PROFESSIONAL ENGINEER
C. M. KERNIGHAN
100559818
2026-06-05
PROVINCE OF ONTARIO

No.	DATE	REVISION
1.	June 5, 2026	Issued for Tender and reissued for approvals

CELEBRATING 75 YEARS 1951-2026 BMROSS engineering better communities

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Huron-Kinloss

Township of Huron-Kinloss

Sideroad 10 Culvert Repairs Traffic Control

Structure No.	Project No.
H51	BR1650
Scale (24x36) N.T.S.	Drawing No. 2 of 2