

COUNTY OF LENNOX & ADDINGTON

COUNTY ROAD 2 & 6

RECONSTRUCTION



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COUNTY ROAD 2

A. GENERAL NOTES

- ALL INFORMATION TO BE VERIFIED ON SITE PRIOR TO COMMENCING ANY WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT IMMEDIATELY.
- ALL UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL CONFIRM THE LOCATION ON SITE AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES.
- THE CONTRACTOR SHALL NOTE THAT SERVICES FROM THE MAIN LINES ARE NOT NECESSARILY SHOWN. THE CONTRACTOR SHALL ALSO NOTE THAT THE LOCATIONS OF SERVICES ON THE DRAWINGS ARE APPROXIMATE AND ACTUAL LOCATIONS SHALL BE VERIFIED DURING CONSTRUCTION.
- VERTICAL CONTROL SHALL BE PROVIDED BY CONTRACT ADMINISTRATION.
- THE CONTRACTOR SHALL CONFIRM ALL BENCHMARK ELEVATIONS PRIOR TO CONSTRUCTION.
- ALL DIMENSIONS SHOWN ARE IN METRES OR MILLIMETRES UNLESS OTHERWISE NOTED.
- DRAWINGS ARE NOT TO BE SCALED.
- NO BLASTING WILL BE ALLOWED ON THIS CONTRACT.**
- AGGREGATES-- CRUSHED QUARRY MATERIAL GRANULAR A AND B AS PER OPSS 1010.**
- UNLESS NOTED FOR REMOVAL, EXISTING TREES TO BE RETAINED AND PROTECTED. NO TREES SHALL BE REMOVED WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER. ANY DAMAGED BRANCHES SHALL BE TRIMMED.
- IN THE EVENT THAT DEEPLY BURIED OR PREVIOUSLY UNDISCOVERED ARCHEOLOGICAL DEPOSITS ARE DISCOVERED IN THE COURSE OF DEVELOPMENT OR SITE ALTERATION, ALL WORK MUST IMMEDIATELY CEASE, AND THE SITE MUST BE SECURED. THE CULTURAL PROGRAM BRANCH OF THE MINISTRY OF CULTURE (416-314-7123) MUST BE IMMEDIATELY CONTACTED.
- IN THE EVENT THAT HUMAN REMAINS ARE ENCOUNTERED, ALL WORK MUST IMMEDIATELY CEASE AND THE SITE MUST BE SECURED. THE O.P.P, THE REGISTRAR OF CEMETERIES REGULATION SECTION OF THE MINISTRY OF CONSUMER BUSINESS SERVICES (416-326-8494), THE CULTURAL PROGRAM BRANCH OF THE MINISTRY OF CULTURE (416-314-7123) MUST BE IMMEDIATELY CONTACTED.

B. CONSTRUCTION NOTES

- ALL DISTURBED AREAS SHALL BE REINSTATED TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
- CONCRETE CURB & GUTTER SHALL BE DEPRESSED AT ALL EXISTING ENTRANCES UNLESS OTHERWISE NOTED.
- ALL CONCRETE CURB AND GUTTER SHALL BE TRANSITIONED TO MATCH INTO EXISTING, ALL TRANSITIONS BETWEEN DIFFERENT CURBS SHALL BE 3m OR AS DIRECTED BY CONTRACT ADMINISTRATION.
- ALL CONCRETE CURB AND GUTTER TERMINATIONS SHALL BE AS PER OPSD 608.010.
- EXISTING GRAVEL DRIVEWAYS SHALL BE REINSTATED TO PRE-CONSTRUCTION CONDITION OR BETTER.
- ASPHALT DRIVEWAYS AND ENTRANCES SHALL BE RETAINED, IF IT IS NOT POSSIBLE, SHALL BE SAWCUT AND REINSTATED TO PRE-CONSTRUCTION CONDITION OR BETTER.
- ALL FIELD ENTRANCES AND GRAVEL DRIVEWAYS TO BE REINSTATED TO MATCH INTO EXISTING. FIELD ENTRANCES TO BE REINSTATED WITH ACCEPTABLE NATIVE MATERIAL.
- ALL PRIVATE CONCRETE SIDEWALKS TO BE ADJUSTED TO MATCH NEW SIDEWALK AS REQUIRED.
- ALL EXISTING RESIDENTIAL SIDEWALKS AND STAIRWAYS TO REMAIN UNDISTURBED UNLESS OTHERWISE NOTED.
- ALL STREET SIGNS SHALL BE REINSTATED IN PRE-CONSTRUCTION LOCATIONS WHERE POSSIBLE. IF THE ORIGINAL LOCATION IS NOT POSSIBLE, LOCATION TO BE REVIEWED ON SITE WITH CONTRACT ADMINISTRATOR.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- IF EXISTING ASPHALT THICKNESS IS GREATER OR EQUAL THAN 60mm JOINTS SHALL BE A LAP JOINT, FOR LESS THAN 60mm BUTT JOINT.
- ROAD SUBGRADE SHALL BE CONSTRUCTED AS PER THE CONTRACT DOCUMENTS.
- PROVIDE 2% CROSSFALL ON ROAD SURFACES, AND 3% CROSSFALL ON SUBGRADE, UNLESS OTHERWISE NOTED HEREIN.
- EXISTING PAVEMENT THICKNESSES TO BE MATCHED AT ALL JOINTS.
- ALL GROUND SURFACES SHALL BE GRADED TO PREVENT PONDING AND WITHOUT LOW AREAS.
- CONTRACTOR TO COMPLY WITH THE INTEGRATED ACCESSIBILITY STANDARDS SPECIFIED IN O. REG. 191/11
- ALL TREE STUMPS WITHIN THE CONSTRUCTION LIMITS TO BE GRUBBED AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
- MINIMUM SEPARATION OF 1.00m TO BE MAINTAINED AT ALL CROSSINGS OF UTILITY CONDUIT AND STORMWATER INFRASTRUCTURE
- ALL CULVERTS TO BE INSTALLED AS PER OPSD 802.010, 803.031 AND OPSD 803.030
- ALL CULVERT AND PIPE OUTLETS TO HAVE RIP RAP AS PER OPSD 810.010
- ALL RETAINING WALLS TO REMAIN UNDISTURBED UNLESS OTHERWISE NOTED.
- CONTRACTOR TO LAYOUT BACK OF SIDEWALK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- UTILITY POLES WITHIN CONSTRUCTION LIMITS TO BE SUPPORTED DURING CONSTRUCTION WHERE REQUIRED FOR ADJACENT EXCAVATION
- ALL ASPHALT TRANSITIONS SHALL BE A STEP JOINT CONNECTION
- ALL DURHAM STREET WORKS SHALL BE COMPLETED BETWEEN JULY 1ST AND AUGUST 31ST WITH ATLEAST ONE LIFT OF ASPHALT PLACED PRIOR TO SCHOOL RE-OPENING**

C. STORM SEWERS

- ALL EXISTING STORM SEWER AND ASSOCIATED STRUCTURES WITHIN THE PROJECT LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED.
- ALL PIPE MATERIAL TO BE CSA CERTIFIED AND CONFORM TO OPSS AS APPLICABLE.
- BEDDING AND COVER MATERIAL FOR ALL SEWERS SHALL BE GRANULAR 'A'. BEDDING TO BE A MINIMUM THICKNESS OF 150mm OF COMPACTED GRANULAR 'A'. COVER FOR SEWERS SHALL BE A MINIMUM THICKNESS OF 300mm OF COMPACTED GRANULAR 'A'.
- MINIMUM HORIZONTAL SEPARATION OF 2500mm TO BE MAINTAINED IN ALL DIRECTION BETWEEN WATERMAIN AND SEWERS.
- PIPE MATERIAL TO BE IDENTIFIED AT PRE-CONSTRUCTION MEETINGS REGARDLESS OF PIPE MATERIAL INDICATED ON PROFILE.
- WHERE A CLEARANCE BETWEEN A PIPE OR CONDUIT CROSSINGS OF 500mm OR LESS CANNOT BE AVOIDED, THERE SHALL BE CONCRETE ENCASEMENT OR NON-SHRINK BACKFILL OF THE CROSSING EXTENDING AT LEAST ONE METER IN EACH DIRECTION ON EACH PIPE.**
- ALL MAINTENANCE HOLE AND CATCH BASIN GRATE ELEVATIONS ARE APPROXIMATE AND ARE SUBJECT TO ADJUSTMENT IN THE FIELD.
- ALL PRIVATE DRAIN CONNECTIONS/SERVICES SHALL BE INSTALLED AS PER OPSD, UNLESS OTHERWISE NOTED HEREIN AS REQUIRED TO CONNECT INTO EXISTING.

D. SANITARY SEWERS

- ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE REQUIREMENT OUTLINED IN LOYALIST TOWNSHIP APPENDIX D4 - SPECIAL PROVISION - SANITARY SEWERS
- REMOVAL SHALL BE PERFORMED IN SUCH A MANNER AND WITH SUCH EQUIPMENT AS TO LEAVE UNDISTURBED AND UNDAMAGED ANY PORTION NOT DESIGNATED FOR REMOVAL OR SALVAGE. ALL DAMAGED OR DISTURBED PORTIONS SHALL BE CORRECTED EXPEDITIOUSLY AND REPAIRED TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- ALL EXISTING SANITARY SEWER AND ASSOCIATED STRUCTURES WITHIN THE PROJECT LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED.
- PIPE MATERIAL TO BE IDENTIFIED AT PRE-CONSTRUCTION MEETINGS REGARDLESS OF PIPE MATERIAL INDICATED ON PROFILE.
- ALL PIPE MATERIAL TO BE CSA CERTIFIED AND CONFORM TO LOYALIST TOWNSHIP REQUIREMENTS.
- BEDDING AND COVER MATERIAL FOR ALL SEWERS SHALL BE GRANULAR 'A' LIMESTONE. BEDDING TO BE A MINIMUM THICKNESS OF 150mm OF COMPACTED GRANULAR 'A'. COVER FOR SEWERS SHALL BE A MINIMUM THICKNESS OF 300mm OF COMPACTED GRANULAR 'A'.
- MINIMUM HORIZONTAL SEPARATION OF 2500mm TO BE MAINTAINED IN ALL DIRECTION BETWEEN WATERMAIN AND SEWERS.
- WHERE A CLEARANCE BETWEEN A PIPE OR CONDUIT CROSSINGS OF 500mm OR LESS CANNOT BE AVOIDED, THERE SHALL BE CONCRETE ENCASEMENT OR NON-SHRINK BACKFILL OF THE CROSSING EXTENDING AT LEAST ONE METER IN EACH DIRECTION ON EACH PIPE.**
- ALL MAINTENANCE HOLE ELEVATIONS ARE APPROXIMATE AND ARE SUBJECT TO ADJUSTMENT IN THE FIELD.
- ALL PRIVATE DRAIN CONNECTIONS/SERVICES SHALL BE INSTALLED AS PER LOYALIST TOWNSHIP SPECIAL PROVISION, UNLESS OTHERWISE NOTED HEREIN AS REQUIRED TO CONNECT INTO EXISTING.
- ALL SANITARY MAINS AND SERVICES SHALL BE MARKED WITH A 50MM WIDE DETECTABLE METALLIC TAPE, THE TAPE SHALL BE LAID 300 ABOVE THE MAIN OR SERVICE.
- PIPE SEWERS SHALL BE INSPECTED USING CCTV EQUIPMENT. CCTV INSPECTION OF PIPE SEWERS SHALL BE ACCORDING TO OPSS/MUN 409, PRIOR TO ACCEPTANCE BY THE OWNER. IN ADDITION TO THE PROCEEDING, ALL LATERALS SHALL REQUIRE CCTV INSPECTION TO THE EXTENT OF THE NEW PIPE PLACEMENT.

E. WATERMAIN

- ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE REQUIREMENT OUTLINED IN LOYALIST TOWNSHIP APPENDIX D3 - SPECIAL PROVISION - WATER
- ALL PARTS USED AS TEMPORARY WATER IN THE OPERATION OF THE DRINKING WATER SYSTEM THAT COME INTO CONTACT WITH WATER WITHIN THE SYSTEM SHALL BE CSA APPROVED, AND COMPLIANT WITH THE MOST CURRENT VERSION OF AWWA C800, NSF 61 & 372
- TEMPORARY WATER PIPES ARE NOT TO BE PLACED IN DITCHES OR RUN THROUGH DRIVEWAY CULVERTS.
- TEMPORARY HYDRANTS SHALL BE REQUIRED WHEREVER THE SPACING BETWEEN FUNCTIONING HYDRANTS EXCEEDS 150M.
- ALL EXISTING WATERMAIN, WATER SERVICES AND FIRE HYDRANTS WITHIN THE PROJECT LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED.
- REMOVAL SHALL BE PERFORMED IN SUCH A MANNER AND WITH SUCH EQUIPMENT AS TO LEAVE UNDISTURBED AND UNDAMAGED ANY PORTION NOT DESIGNATED FOR REMOVAL OR SALVAGE. ALL DAMAGED OR DISTURBED PORTIONS SHALL BE CORRECTED EXPEDITIOUSLY AND REPAIRED TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- WATERMAIN ABANDONMENT SHALL INCLUDE CAPPING EACH END.
- ALL WATERMAIN PIPE TO BE AWWA C900 PVC (DR 18) PRESSURE CLASS 235, OR AWWA C909 - MOLECULARLY ORIENTED POLYVINYL CHLORIDE (PVC0) SPECIFICATION, PRESSURE CLASS 235, BLUE IN COLOUR. THE PIPE MUST BE HOMOGENEOUS THROUGHOUT, NOT FADED OR WEATHER DAMAGED, FREE FROM VOIDS, CRACKS, INCLUSIONS, AND OTHER DEFECTS. PIPE SHALL COMPLY WITH NSF 61 AND DEMONSTRATE COMPLIANCE WITH NSF/ANSI 14
- MINIMUM COVER ON WATERMAIN AND SERVICES TO BE 1800mm TO BE MAINTAINED UNLESS OTHERWISE NOTED.
- MINIMUM HORIZONTAL SEPARATION OF 2500mm TO BE MAINTAINED IN ALL DIRECTION BETWEEN WATERMAIN AND SEWERS.
- WHERE A CLEARANCE BETWEEN A PIPE OR CONDUIT CROSSINGS OF 500mm OR LESS CANNOT BE AVOIDED, THERE SHALL BE CONCRETE ENCASEMENT OR NON-SHRINK BACKFILL OF THE CROSSING EXTENDING AT LEAST ONE METER IN EACH DIRECTION ON EACH PIPE.**
- BEDDING AND COVER MATERIAL FOR ALL WATER SERVICES SHALL BE GRANULAR 'A'. BEDDING TO BE A MINIMUM THICKNESS OF 150mm OF COMPACTED GRANULAR 'A'. COVER FOR WATERMAIN SHALL BE A MINIMUM THICKNESS OF 300mm OF COMPACTED GRANULAR 'A'.
- A MINIMUM OF 48 HOURS WRITTEN NOTICE IS REQUIRED TO CUSTOMERS PRIOR TO ANY SCHEDULED SHUT-DOWN OF THE WATER DISTRIBUTION SYSTEM. AN OWNER APPROVED NOTICE SHALL BE HAND DELIVERED TO ALL AFFECTED CUSTOMERS.
- ALL NEW WATERMAINS UNDER CONSTRUCTION AND TEMPORARY WATER SERVICES SHALL BE TESTED IN ACCORDANCE WITH LOYALIST TOWNSHIP SPECIAL PROVISION GUIDELINES.
- REINSTATE PRIVATE PROPERTY TO PRE-CONSTRUCTION CONDITIONS, NO EXTRA PAYMENT WILL BE MADE FOR PRIVATE PROPERTY WORKS OTHER THAN AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- EXISTING CURB STOP AND WATERMAIN LOCATIONS TO BE VERIFIED IN THE FIELD, SERVICE CONNECTION ARE TO BE PROPOSED IN EXISTING LOCATIONS.
- ALL WATER SERVICES TO BE REPLACED TO PROPERTY LINE.
- ALL CURB STOPS SHALL BE INSTALLED AT THE PROPERTY LINE.
- ALL WATERMAIN SHALL BE RESTRAINED AS PER LOYALIST TOWNSHIP SPECIAL PROVISION.
- AFTER THE PROJECT WORK IS COMPLETED AND/OR MUNICIPAL WATER SERVICE CONNECTIONS RESTORED AND EXCAVATIONS BACKFILLED, THE MAIN WILL BE RETURNED TO SERVICE AND THE TEMPORARY WATER SUPPLY LINES SHALL BE REMOVED.
- WATERMAIN SHUT-DOWNS AFFECTING THE ERNESTOWN INTERMEDIATE AND SECONDARY SCHOOL, ODESSA PUBLIC SCHOOL OR THE MILLCREEK CHILDCARE CENTRE SHALL BE COMPLETED OUTSIDE OF SCHOOL HOURS.**

F. SUSPENDED WATERMAIN

- 50mm THICK U.I.P. POLYURETHANE INSULATION C/W 1.25mm PE OUTER JACKET ON URECON SUPPLIED 250mm PVC PIPE.
50mm THICK POLYURETHANE INSULATION C/W POLYMER COATED FITTING KIT SUPPLIED WITH ACCESSORIES TO BE FIELD INSTALLED ON FITTINGS.
THERMOCABLE C13-240-COJ HEATING CABLE WITH AN OUTPUT OF 13 WATTS/METER @ 240 VOLTS AND A MAXIMUM OF CIRCUIT LENGTH OF 245 METERS (800 FT).
URECON POWER FEED KIT MODEL PFK-1
ELECTRONIC THERMOSTAT MODEL # NGUTC-2230-1 WITH GROUND FAULT DETECTION CIRCUITRY.
120-240 VAC, 3Ø A, 2 POLES IN A NEMA 4 PAINTED STEEL ENCLOSURE, FACTORY SET CONTROLS FOR PROTECTION OF PVC PIPING.
100 OHMS RTD TEMPERATURE SENSOR # URTD-06-G WITH 6 METERS OF GREY PVC LEAD WIRE.
100 OHMS RTD TEMPERATURE SENSOR # URTD-06-R WITH 6 METERS OF RED PVC LEAD WIRE.

G. ENVIRONMENTAL

WHILE UNDERTAKING CLEARING, DEMOLITION, EXCAVATION OR CONSTRUCTION THE OWNER AND THEIR CONTRACTORS SHALL BE VIGILANT FOR THE POTENTIAL PRESENCE OF UNDERGROUND FUEL TANKS, POTENTIALLY CONTAMINATED SOILS OR GROUNDWATER, BURIED WASTES OR ABANDONED WELLS. IF ANY OF THE ABOVE ARE ENCOUNTERED OR SUSPECTED, THE OWNER SHALL ENSURE THAT:

- ANY WASTES GENERATED BY SITE CLEAN-UPS ARE MANAGED IN ACCORDANCE WITH APPLICABLE LAWS AND STANDARDS;
- ANY ABANDONED FUEL TANKS ENCOUNTERED ARE DECOMMISSIONED IN ACCORDANCE WITH APPLICABLE LAWS AND STANDARDS;
- ANY UNUSED WATER WELLS (DRILLED OR DUO) ARE PROPERLY ABANDONED IN ACCORDANCE WITH O. REG. 903 - WELLS OR AS REVISED;
- IF IT APPEARS LIKELY THAT CONTAMINATION EXTENDS BEYOND THE BOUNDARIES OF THE SUBJECT PROPERTY, THE CONTRACTOR SHALL NOTIFY THE CONTRACT ADMINISTRATOR.
- CONSTRUCTION WASTES ARE NOT TO BE BURIED WITHIN THE PROPERTY THAT IS THE SUBJECT OF THIS AGREEMENT, AND
- THAT THE OWNER AND THEIR CONTRACTORS REPORT ALL SPILLS TO THE MINISTRY OF ENVIRONMENT'S SPILLS ACTION CENTRE (1-800-268-6060) AND TO THE MUNICIPALITY FORTHWITH.

METRIC NOTE:

ALL DIMENSIONS SHOWN ARE IN METRES OR MILLIMETRES UNLESS OTHERWISE NOTED.

== DRAWINGS ARE NOT TO BE SCALED ==

REVISIONS

No.	Date	Description	By
01	01/26/26	ISSUED FOR CLIENT REVIEW	KK
02	03/06/26	ISSUED FOR TENDER	KK



COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

COUNTY ROAD 2
NOTES

Drawn by: M.J.T. Project No: 2209778

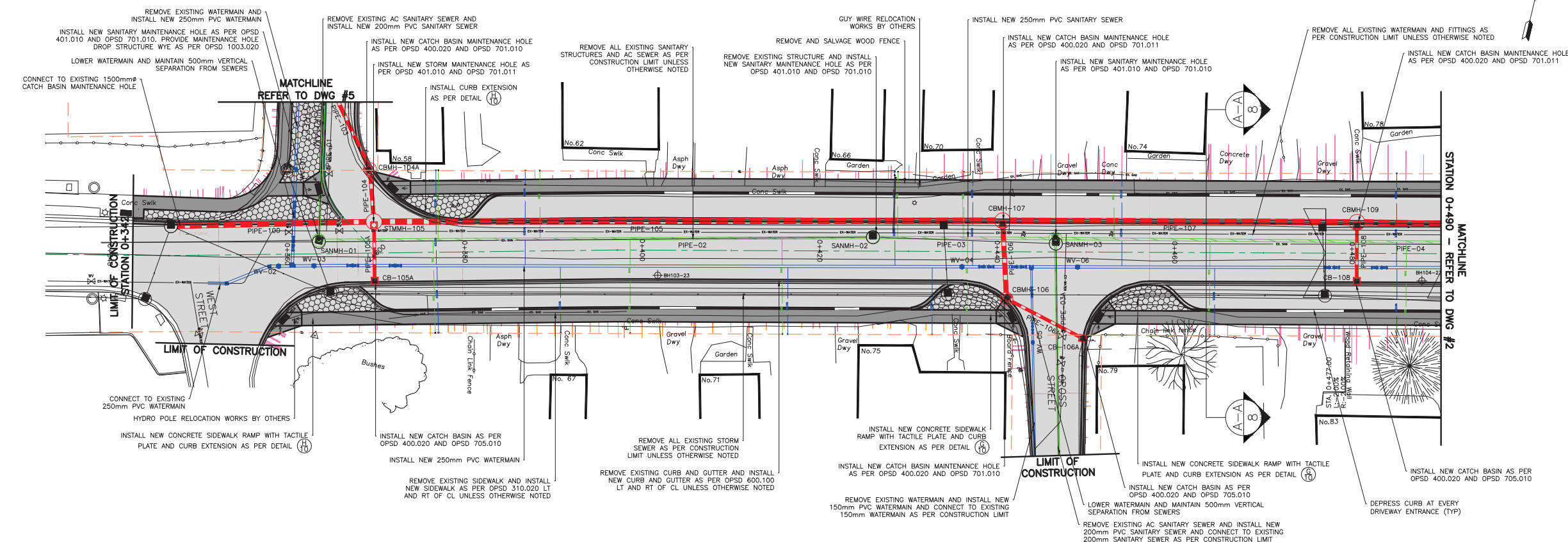
Designed by: J.E. Date: 03/05/26

Checked by: K.K. Scale - Hor: Vert:

Approved by: K.K. Contract No:

Drawing No: 0

COUNTY ROAD 2



PROPOSED STORM SEWER STRUCTURE TABLE									
STRUCTURE NAME	OPSD	T/G	STATION	OFFSET	INVERTS				
CB-108	OPSD 400.020 AND OPSD 705.010	125.04	0+480.52	3.12 R	N INV = 123.038				
CBMH-109	OPSD 400.020 AND OPSD 701.011	125.05	0+480.52	3.49 L	W INV = 122.875 S INV = 122.875 E INV = 122.875				
CBMH-106	OPSD 400.020 AND OPSD 701.010	125.15	0+441.05	5.29 R	E INV = 123.406 N INV = 123.256 S INV = 123.149 E INV = 122.841				
CBMH-107	OPSD 400.020 AND OPSD 701.011	125.19	0+440.58	3.49 L	W INV = 123.841 S INV = 123.420 N INV = 123.366 W INV = 123.316 E INV = 123.120				
STMMH-105	OPSD 401.010 AND OPSD 701.011	125.21	0+369.79	3.54 L	N INV = 123.420 S INV = 123.390 E INV = 123.390				
CB-105A	OPSD 400.020 AND OPSD 705.010	125.22	0+369.79	3.13 R	N INV = 123.456				
CBMH-104A	OPSD 400.020 AND OPSD 701.010	125.13	0+369.41	9.46 L	W INV = 123.390 S INV = 123.390				
CB-106A	OPSD 400.020 AND OPSD 705.010	125.22	0+449.64	9.71 R	W INV = 123.506				

PROPOSED STORM SEWER PIPE TABLE									
NAME	DESCRIPTION	LENGTH	SLOPE	START STRUCTURE	START STATION	START OFFSET	END STRUCTURE	END STATION	END OFFSET
PIPE-100	525MM DUAL WALL HDPE	22.9 m	0.50%	EX-CBMH-103	0+346.91	3.31 L	STMMH-105	0+369.79	3.54 L
PIPE-103	375MM DUAL WALL HDPE	10.8 m	0.39%	CBMH-104A	0+201.22	0.30 R	CBMH-104A	0+011.38	5.17 R
PIPE-104	375MM DUAL WALL HDPE	5.9 m	0.40%	CBMH-104A	0+369.41	9.46 L	STMMH-105	0+369.79	3.54 L
PIPE-105	600MM DUAL WALL HDPE	70.8 m	0.39%	STMMH-105	0+369.79	3.54 L	CBMH-107	0+440.58	3.49 L
PIPE-105A	300MM DUAL WALL HDPE	6.7 m	0.54%	CB-105A	0+369.79	3.13 R	STMMH-105	0+369.79	3.54 L
PIPE-106	450MM DUAL WALL HDPE	8.8 m	1.22%	CBMH-106	0+441.05	5.29 R	CBMH-107	0+440.58	3.49 L
PIPE-106A	300MM DUAL WALL HDPE	9.7 m	1.04%	CB-106A	0+449.64	9.71 R	STMMH-105	0+369.79	3.54 L
PIPE-107	600MM DUAL WALL HDPE	39.9 m	0.42%	CBMH-107	0+440.58	3.49 L	CBMH-109	0+480.52	3.49 L
PIPE-108	300MM DUAL WALL HDPE	6.6 m	0.06%	CB-108	0+480.52	3.12 R	CBMH-109	0+480.52	3.49 L
PIPE-109	600MM DUAL WALL HDPE	25.2 m	0.49%	CBMH-109	0+480.52	3.49 L	STMMH-110	0+505.73	3.11 L

WATER VALVE TABLE		
VALVE NAME	SIZE	TYPE
WV-02	250 mm	Gate
WV-01	250 mm	Gate
WV-04	250 mm	Gate
WV-05	150 mm	Gate
WV-06	250 mm	Gate
WV-03	250 mm	Gate

PROPOSED SANITARY STRUCTURE TABLE									
STRUCTURE NAME	OPSD	T/G	STATION	OFFSET	INVERTS				
SANMH-02	OPSD 401.010 AND OPSD 701.010	125.30	0+426.02	1.53 L	W INV = 121.499 E INV = 121.497				
SANMH-01	OPSD 401.010 AND OPSD 701.010	125.26	0+363.55	1.52 L	N INV = 123.743 W INV = 121.682 E INV = 121.656				
SANMH-03	OPSD 401.010 AND OPSD 701.010	125.19	0+446.54	1.51 L	W INV = 121.352 S INV = 122.380 E INV = 121.366				

PROPOSED SANITARY PIPE TABLE									
NAME	DESCRIPTION	LENGTH	SLOPE	START STRUCTURE	START STATION	START OFFSET	END STRUCTURE	END STATION	END OFFSET
PIPE-01	200MM PVC	93.8 m	0.30%	SANMH-01A	0+368.20	95.20 L	EX-PIPE	SANMH-01	0+363.55
PIPE-02	250MM PVC	62.5 m	0.25%	SANMH-01	0+363.55	1.52 L	SANMH-02	0+426.02	1.53 L
PIPE-03	250MM PVC	20.5 m	0.51%	SANMH-02	0+426.02	1.53 L	SANMH-03	0+446.54	1.51 L
PIPE-03A	200MM PVC	24.5 m	0.39%	SANMH-03	0+446.54	1.51 L	EX-PIPE	SANMH-04	0+447.03
PIPE-04	250MM PVC	71.0 m	0.29%	SANMH-03	0+446.54	1.51 L	SANMH-04	0+517.45	1.50 L

METRIC NOTE:
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-- DIMENSIONS ARE NOT TO BE SCALED --

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01	01/26/26	ISSUED FOR CLIENT REVIEW	KK
02	03/06/26	ISSUED FOR TENDER	KK

EXISTING

LEGEND

PROPOSED

PROPERTY LINES

TOP OF BANK

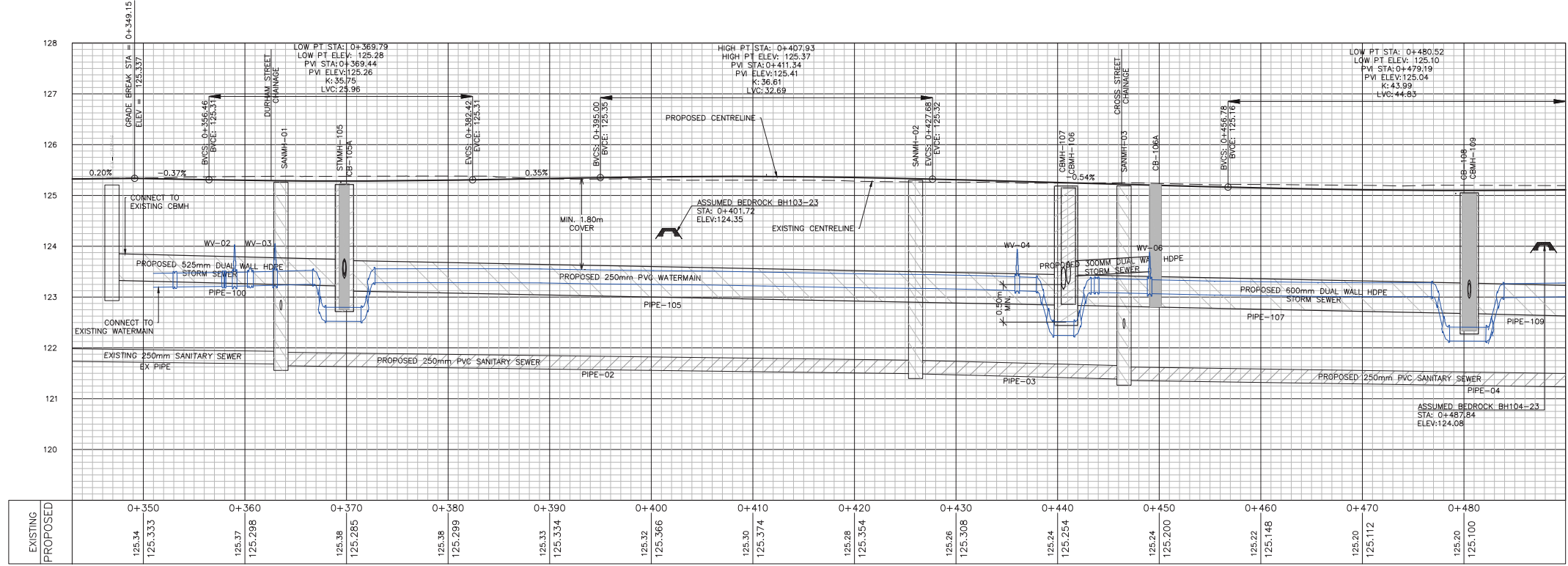
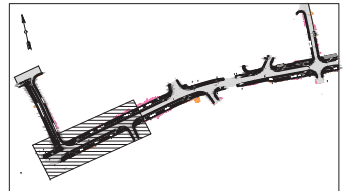
TOP OF DITCH

TOE OF SLOPE

CENTER OF DITCH

CUT

FILL



COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

COUNTY ROAD 2
PLAN AND PROFILE
STATION 0+345 TO 0+490

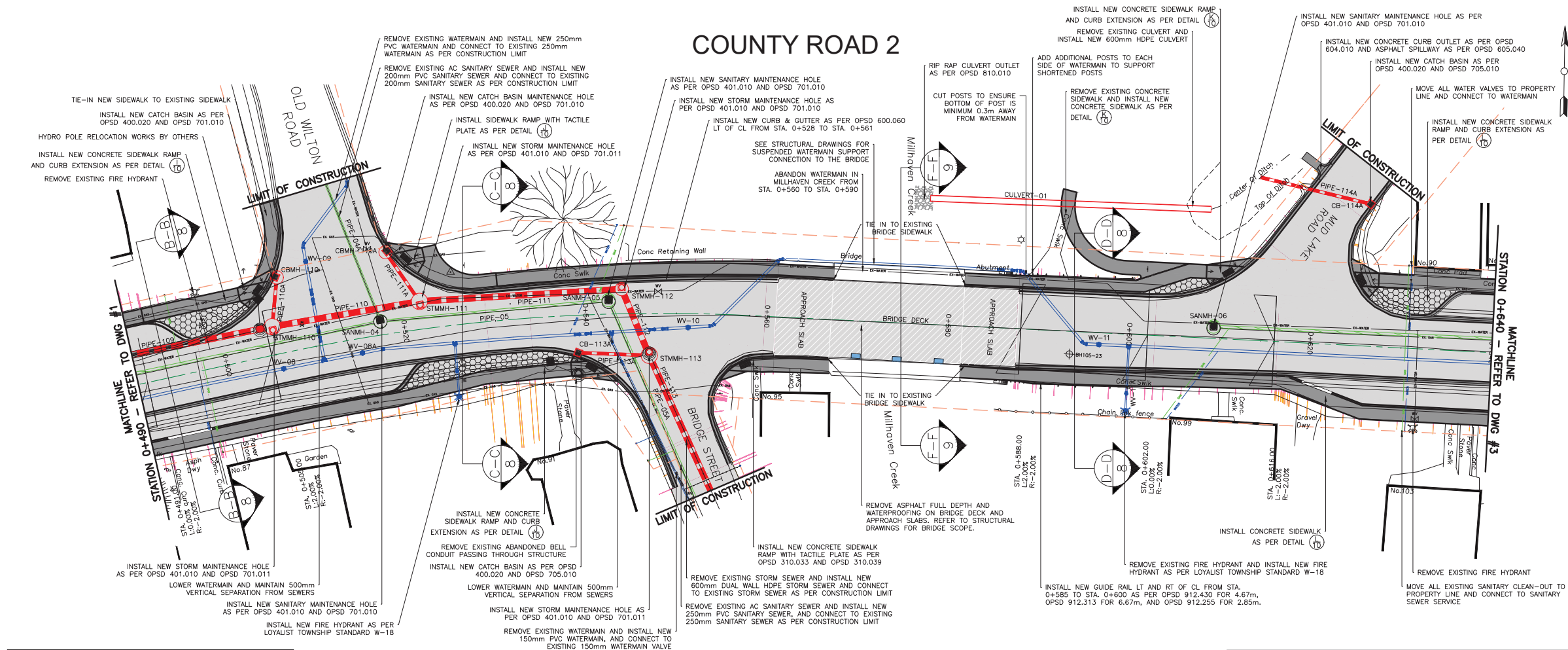
Drawn by: M.J.T. Project No: 2209778

Designed by: J.E. Date: 03/05/26

Checked by: K.K. Scale - Hor: 1:250 Vert:

Approved by: K.K. Contract No: Drawing No: 1

COUNTY ROAD 2



STRUCTURE NAME:	OPSD	T/O	STATION	OFFSET	INVERTS
CBMH-110	OPSD 400.020 AND OPSD 701.010	125.23	0+507.30	8.30 L	S INV = 122.869
STMMH-113	OPSD 401.010 AND OPSD 701.011	124.94	0+546.96	4.64 R	NW INV = 122.285 W INV = 122.585 SE INV = 122.385
STMMH-111	OPSD 401.010 AND OPSD 701.011	125.29	0+521.97	3.07 L	W INV = 122.470 NW INV = 122.770 E INV = 122.470
STMMH-112	OPSD 401.010 AND OPSD 701.010	125.15	0+544.00	2.72 L	W INV = 122.362 SE INV = 122.362
CB-113A	OPSD 400.020 AND OPSD 705.010	125.02	0+538.95	4.13 R	E INV = 122.664
CBMH-110A	OPSD 400.020 AND OPSD 701.010	125.40	0+519.09	8.95 L	SE INV = 122.792
CB-114A	OPSD 400.020 AND OPSD 705.010	123.31	0+625.83	15.67 L	W INV = 122.790
STMMH-110	OPSD 401.010 AND OPSD 701.011	125.23	0+505.73	3.11 L	W INV = 122.551 N INV = 122.851 E INV = 122.551

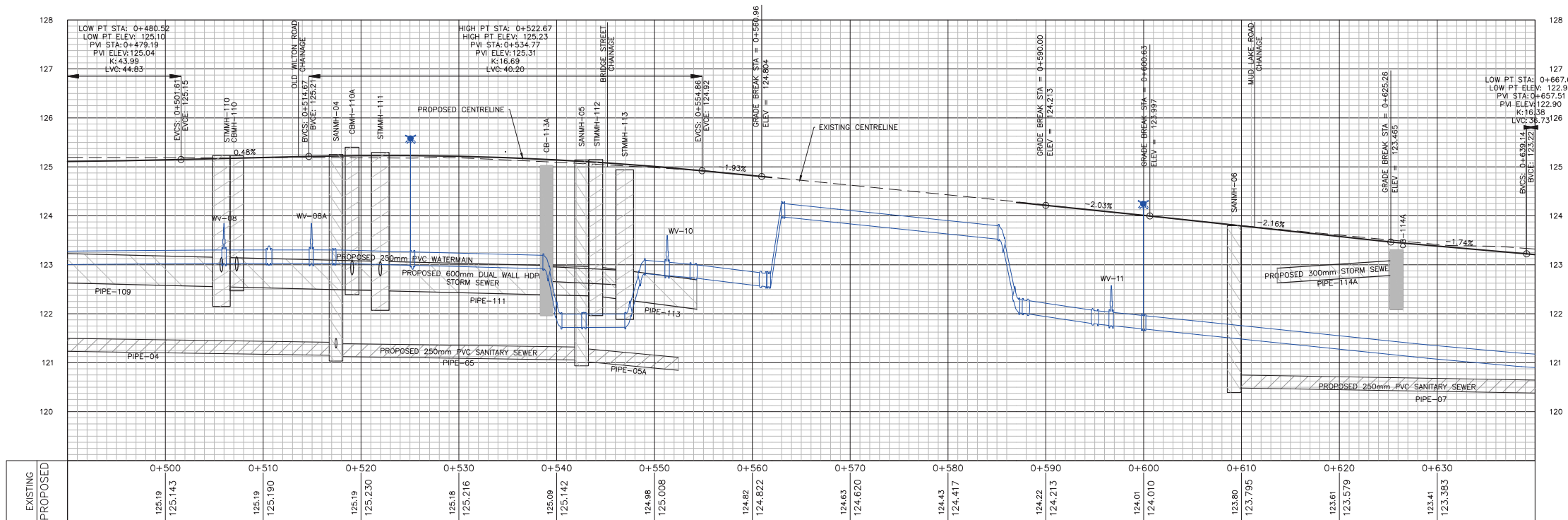
NAME	DESCRIPTION	LENGTH	SLOPE	START STATION	START INVERT	START OFFSET	END STATION	END INVERT	END OFFSET
PIPE-110	600MM DUAL WALL HDPE	16.5 m	0.49%	STMMH-110	0+505.73	3.11 L	122.581	122.470	
PIPE-110A	300MM DUAL WALL HDPE	5.4 m	0.33%	CBMH-110	0+507.30	8.30 L	122.869	122.869	
PIPE-111	600MM DUAL WALL HDPE	22.3 m	0.46%	STMMH-111	0+521.97	3.07 L	122.470	122.362	
PIPE-111A	300MM DUAL WALL HDPE	6.6 m	0.33%	CBMH-110A	0+519.09	8.95 L	122.792	122.792	
PIPE-112	600MM DUAL WALL HDPE	7.9 m	0.97%	STMMH-112	0+544.00	2.72 L	122.362	122.285	
PIPE-113	600MM DUAL WALL HDPE	16.3 m	1.17%	STMMH-113	0+546.96	4.64 R	122.285	122.285	
PIPE-113A	300MM DUAL WALL HDPE	7.8 m	1.00%	CB-113A	0+538.95	4.13 R	122.664	122.664	
PIPE-114A	300MM DUAL WALL HDPE	12.4 m	1.29%	CB-114A	0+625.83	15.67 L	122.790	122.551	

VALVE NAME	SIZE	TYPE
WV-09	250 mm	Gate
WV-08	250 mm	Gate
WV-10	250 mm	Gate
WV-08A	250 mm	Gate
WV-11	250 mm	Gate
WV-07	150 mm	Gate
WV-11A	150 mm	Gate

STRUCTURE NAME:	OPSD	T/O	STATION	OFFSET	INVERTS
SANMH-06	OPSD 401.010 AND OPSD 701.010	123.80	0+609.24	1.31 L	E INV = 120.492
SANMH-04	OPSD 401.010 AND OPSD 701.010	125.25	0+517.45	1.50 L	W INV = 121.158 N INV = 121.298 E INV = 121.134
SANMH-05	OPSD 401.010 AND OPSD 701.010	125.14	0+542.54	1.54 L	W INV = 121.062 SE INV = 121.036

NAME	DESCRIPTION	LENGTH	SLOPE	START STATION	START INVERT	START OFFSET	END STATION	END INVERT	END OFFSET
PIPE-04A	200MM PVC	16.2 m	0.52%	EX-PIPE	0+514.11	17.33 L	EX-PIPE	121.298	
PIPE-05	250MM PVC	25.3 m	0.28%	SANMH-04	0+517.45	1.50 L	121.134	121.062	
PIPE-05A	250MM PVC	23.7 m	0.78%	SANMH-05	0+542.54	1.54 L	121.036	120.20 R	EX PIPE
PIPE-07	250MM PVC	67.3 m	0.34%	SANMH-06	0+609.24	1.31 L	120.492	120.264	

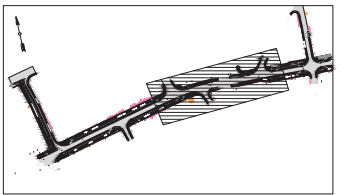
NAME	DESCRIPTION	LENGTH	SLOPE	START CL OFFSET	START INVERT	END CL OFFSET	END INVERT
CULVERT-01	600MM HDPE CULVERT	31.0 m	1.00%	14.20 L	122.157	13.89 L	121.847



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No.	Date	Description	By
01	01/26/26	ISSUED FOR CLIENT REVIEW	KK
02	03/06/26	ISSUED FOR TENDER	KK

EXISTING	LEGEND	PROPOSED
CENTRELINE	CENTRELINE	CENTRELINE
UTILITY POLE	UTILITY POLE	UTILITY POLE
SIGN	SIGN	SIGN
STORM SEWER	STORM SEWER	STORM SEWER
CATCH BASIN	CATCH BASIN	CATCH BASIN
DITCH INLET	DITCH INLET	DITCH INLET
CATCH BASIN MAINTENANCE HOLE	CATCH BASIN MAINTENANCE HOLE	CATCH BASIN MAINTENANCE HOLE
SANITARY MANHOLE	SANITARY MANHOLE	SANITARY MANHOLE
SANITARY LINE	SANITARY LINE	SANITARY LINE
WATER LINE	WATER LINE	WATER LINE
NATURAL GAS LINE	NATURAL GAS LINE	NATURAL GAS LINE
SANITARY CLEAN-OUT	SANITARY CLEAN-OUT	SANITARY CLEAN-OUT
WATER VALVE	WATER VALVE	WATER VALVE
WATER SHUT-OFF	WATER SHUT-OFF	WATER SHUT-OFF
OVERHEAD POWER LINE	OVERHEAD POWER LINE	OVERHEAD POWER LINE
GUY WIRE	GUY WIRE	GUY WIRE
FIRE HYDRANT	FIRE HYDRANT	FIRE HYDRANT
TREE	TREE	TREE
BUSH	BUSH	BUSH
FENCE	FENCE	FENCE
BELL BOX	BELL BOX	BELL BOX
IRON BAR	IRON BAR	IRON BAR
LIGHT POST	LIGHT POST	LIGHT POST
PROPERTY LINES	PROPERTY LINES	PROPERTY LINES
TOP OF BANK	TOP OF BANK	TOP OF BANK
TOE OF DITCH	TOE OF DITCH	TOE OF DITCH
TOE OF SLOPE	TOE OF SLOPE	TOE OF SLOPE
CUT	CUT	CUT
FILL	FILL	FILL



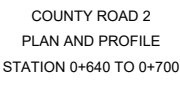
COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

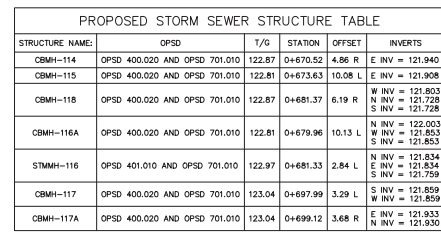
COUNTY ROAD 2
PLAN AND PROFILE
STATION 0+490 TO 0+640

Drawn by: M.J.T. Project No: 2209778
Designed by: J.E. Date: 03/05/26
Checked by: K.K. Scale - Hor: 1:250 Vert:
Approved by: K.K. Contract No: Drawing No: 2

REVISIONS			
No.	Date	Description	By
01	01/26/26	ISSUED FOR CLIENT REVIEW	KK
02	03/06/26	ISSUED FOR TENDER	KK

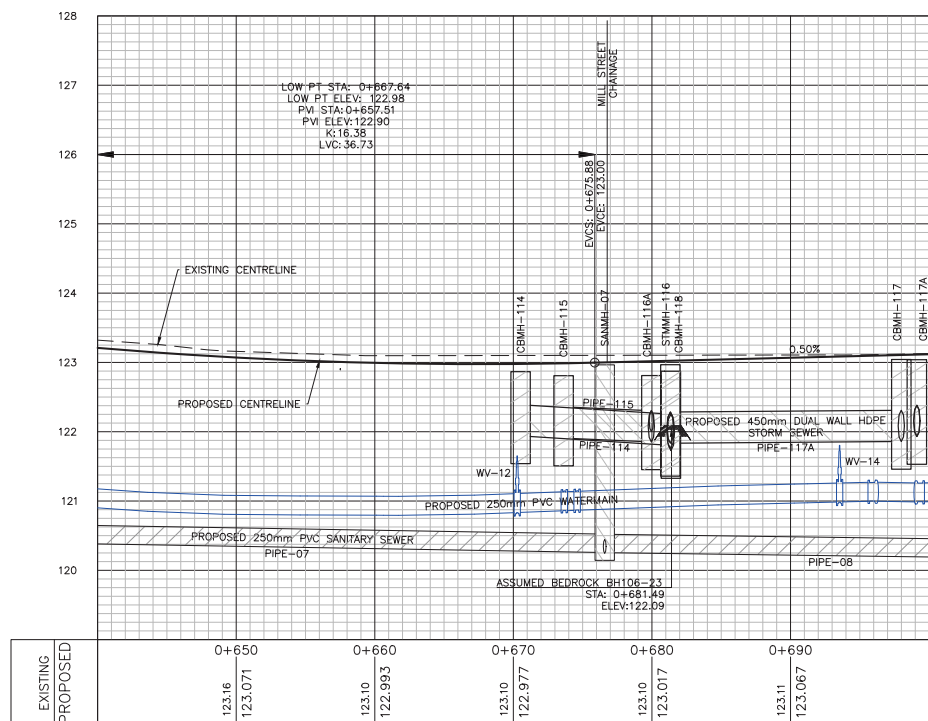


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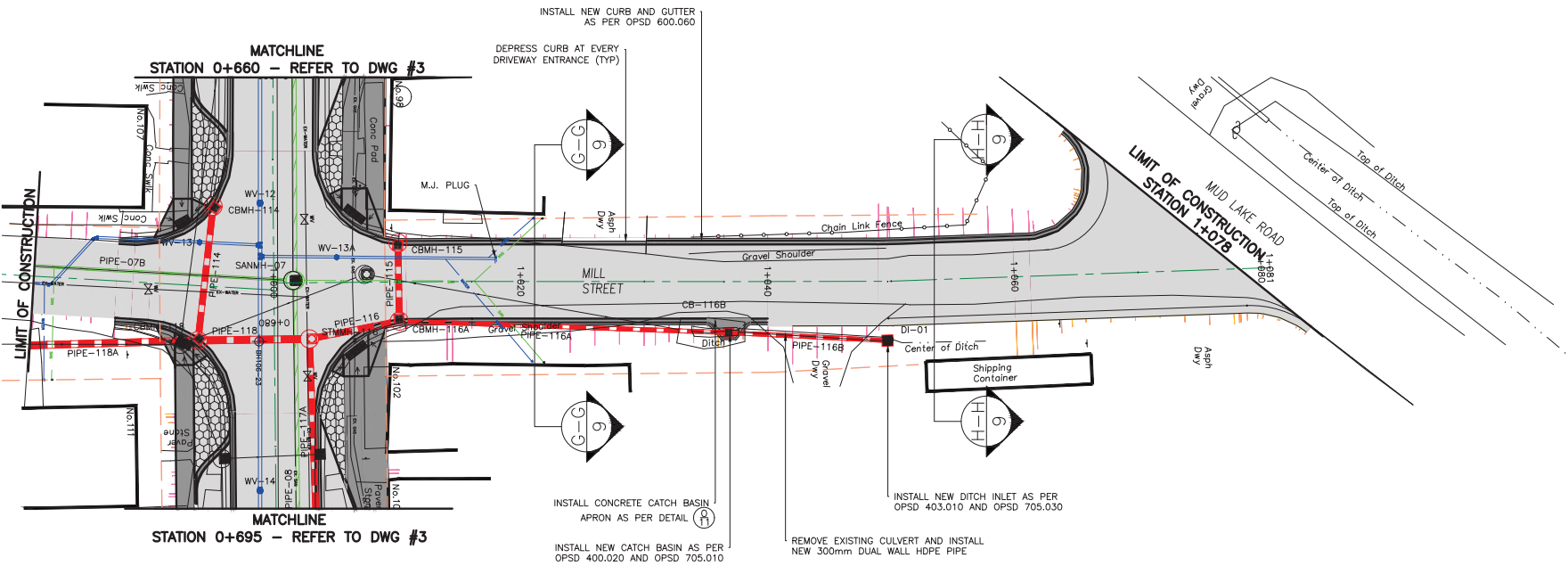


PROPOSED SANITARY STRUCTURE TABLE					
STRUCTURE NAME:	OPSD	T/G	STATION	OFFSET	INVERTS
SANMH-07	OPSD 401.010 AND OPSD 701.010	122.97	0+676.59	1.73 L	W INV = 120.264 E INV = 120.262 S INV = 120.244

VALVE NAME	SIZE	TYPE
WV-12	250 mm	Gate
WV-14	250 mm	Gate
WV-13	150 mm	Gate
WV-11	250 mm	Gate
WV-11A	150 mm	Gate
WV-13A	150 mm	Gate

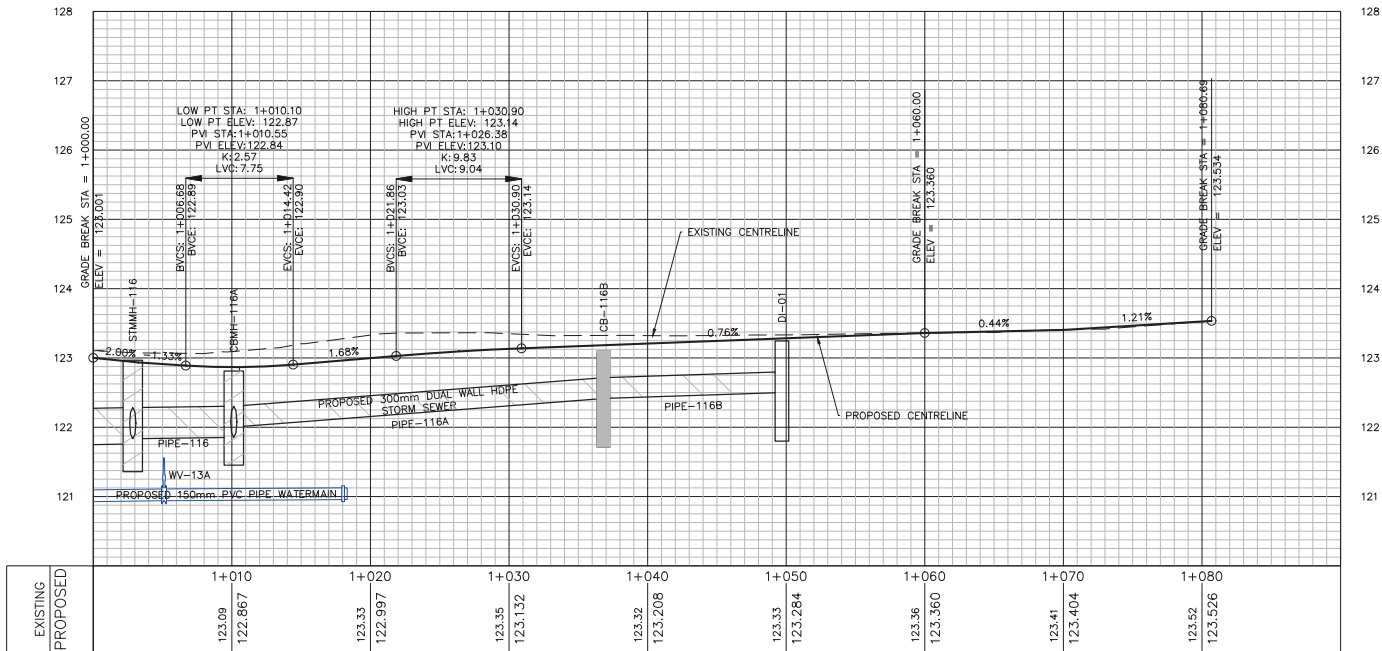


MILL STREET



PROPOSED STORM SEWER STRUCTURE TABLE						
STRUCTURE NAME:	OPSD	T/G	STATION	OFFSET	INVERTS	
CB-116B	OPSD 400.020 AND OPSD 705.010	123.11	1+036.83	4.13 R	N INV = 122.415 S INV = 122.415	
DI-01	OPSD 403.010 AND OPSD 705.030	123.25	1+049.69	4.80 R	S INV = 122.500	

PROPOSED STORM SEWER PIPE TABLE										
NAME	DESCRIPTION	LENGTH	SLOPE	START STRUCTURE	START STATION	START OFFSET	START INVERT	END STRUCTURE	END STATION	END OFFSET
PIPE-116A	300MM DUAL WALL HDPE	26.7 m	1.54%	CB-116B	1+036.83	4.13 R	122.415	CBMH-116A	1+010.14	3.17 R
PIPE-116B	300MM DUAL WALL HDPE	12.9 m	0.66%	DI-01	1+049.69	4.80 R	122.500	CB-116B	1+036.83	4.13 R



NOTES:
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REVISIONS			
No.	Date	Description	By
01	01/26/26	ISSUED FOR CLIENT REVIEW	KK
02	03/06/26	ISSUED FOR TENDER	KK

EXISTING	LEGEND	PROPOSED
	CENTRELINE	
	UTILITY POLE	
	SIGN	
	STORM SEWER	
	CATCH BASIN	
	DITCH INLET	
	CATCH BASIN MAINTENANCE HOLE	
	SANITARY MANHOLE	
	SANITARY LINE	
	WATER LINE	
	NATURAL GAS LINE	
	SANITARY CLEAN-OUT	
	WATER VALVE	
	WATER SHUT-OFF	
	OVERHEAD POWER LINE	
	GUY WIRE	
	FIRE HYDRANT	
	TREE	
	BUSH	
	FENCE	
	BELL BOX	
	IRON BAR	
	LIGHT POST	
	PROPERTY LINES	
	TOP OF BANK	
	TOP OF DITCH	
	TOE OF SLOPE	
	CENTER OF DITCH	
	CUT	
	FILL	



COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

MILL STREET NORTH
PLAN AND PROFILE
STATION 1+000 TO 1+063

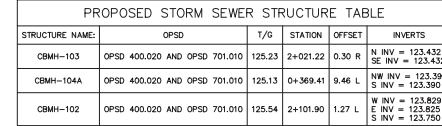
Drawn by: M.J.T.
Project No: 2209778

Designed by: J.E.
Date: 03/05/26

Checked by: K.K.
Scale - Hor: 1:250
Vert:

Approved by: K.K.
Contract No:
Drawing No: 4

REVISIONS			
No.	Date	Description	By
01	01/26/26	ISSUED FOR CLIENT REVIEW	KK
02	03/06/26	ISSUED FOR TENDER	KK



VALVE NAME	SIZE	TYPE
WV-53	250 mm	Gate
WV-52	250 mm	Gate
WV-50	250 mm	Gate
WV-51	250 mm	Gate
WV-54	150 mm	Gate

NAME	DESCRIPTION	LENGTH	SLOPE	START STRUCTURE	START STATION	START OFFSET	START INVERT	END STRUCTURE	END STATION	END OFFSET	END INVERT
PIPE-00	150MM PVC	14.7 m	0.72%	EX-PIPE	0+382.89	94.90 L	EX-PIPE INVERT	SANMH-01A	0+368.20	95.20 L	123.03
PIPE-01	200MM PVC	93.8 m	2.63%	SANMH-01A	0+368.20	95.20 L	123.02A	SANMH-01	0+363.55	1.52 L	122.74
PIPE-01A	150MM PVC	8.4 m	0.80%	EX-PIPE	0+368.83	103.60 L	EX-PIPE INVERT	SANMH-01A	0+368.20	95.20 L	123.05

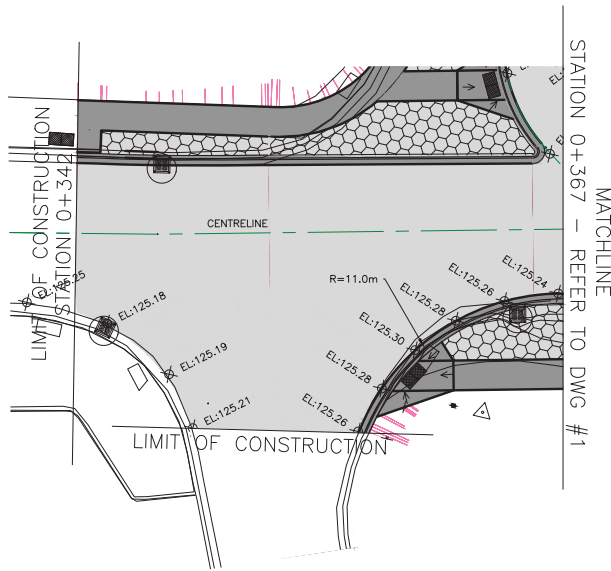


COUNTY ROAD 2

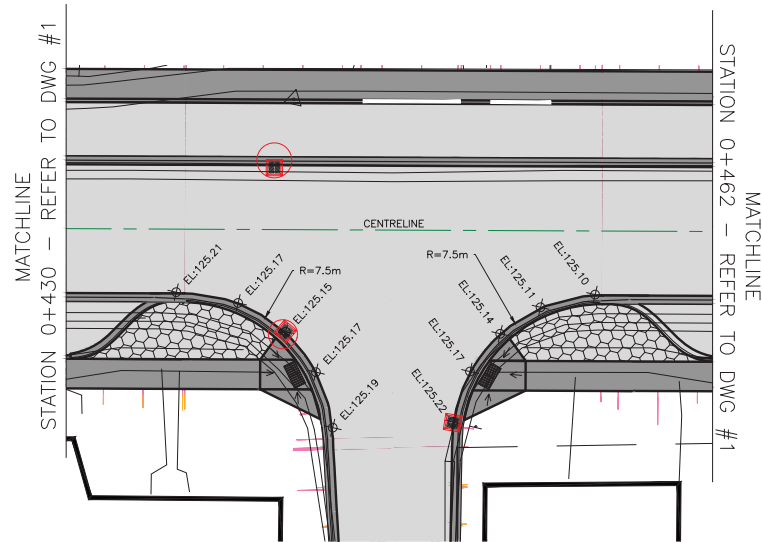
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INTERSECTION GRADING

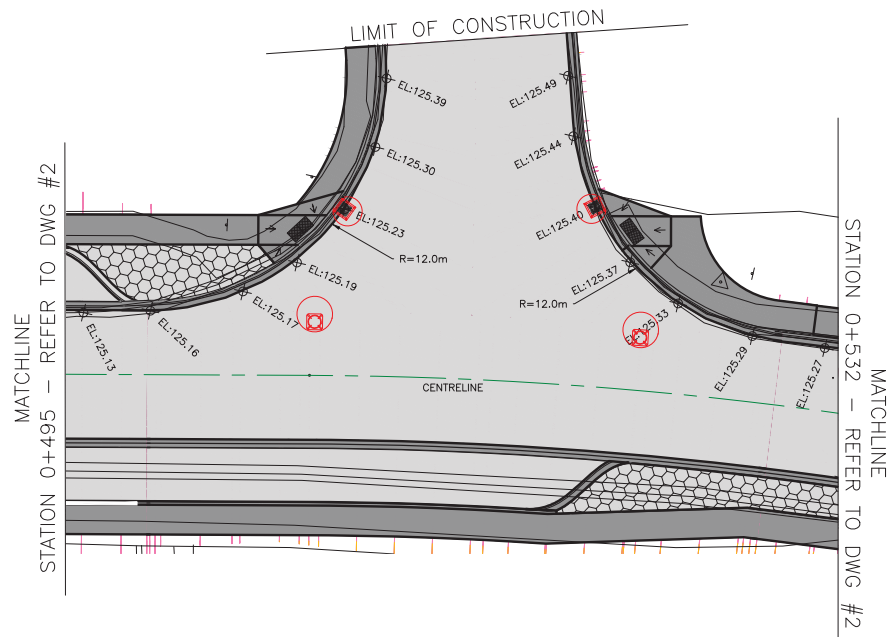
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6
CR2 WEST STREET
CURB RETURN DETAIL



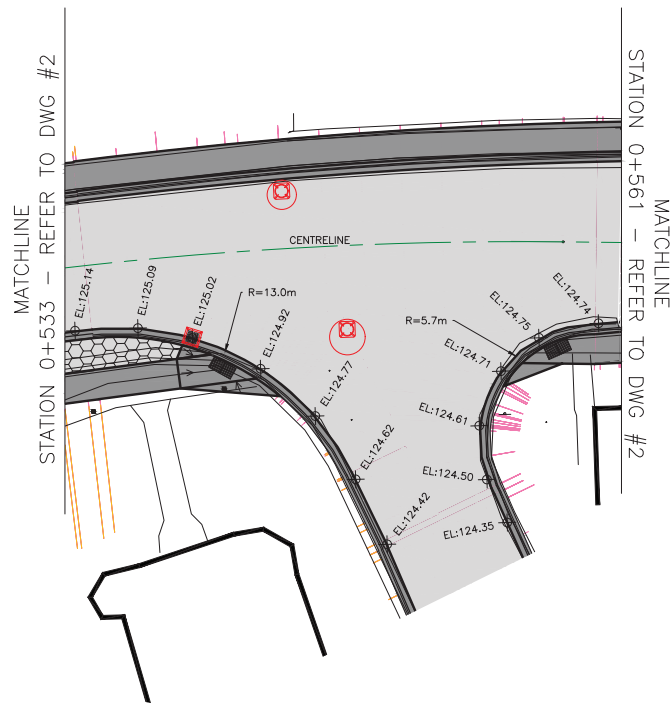
B
6
CR2 CROSS STREET
CURB RETURN DETAIL



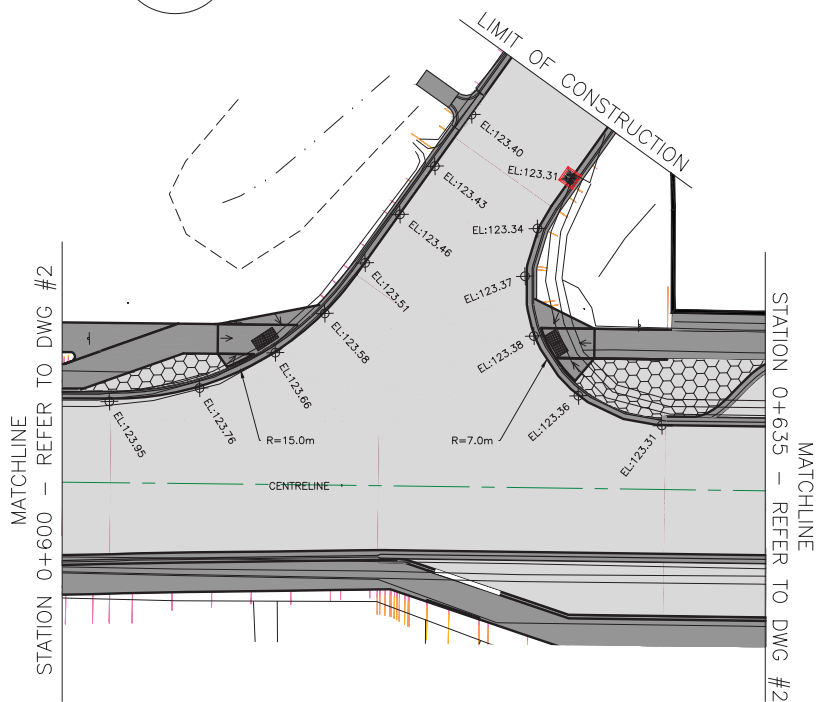
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CR2 OLD WILTON ROAD
CURB RETURN DETAIL



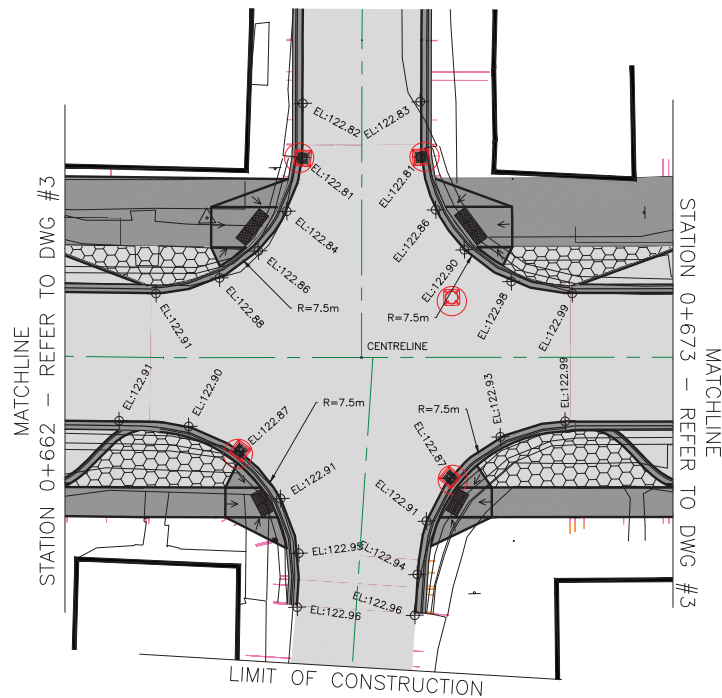
D
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CR2 BRIDGE STREET
CURB RETURN DETAIL



E
6
CR2 MUD LAKE ROAD
CURB RETURN DETAIL



F
6
CR2 MILL STREET
CURB RETURN DETAIL



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REVISIONS			
No.	Date	Description	By
01	01/26/26	ISSUED FOR CLIENT REVIEW	KK
02	03/06/26	ISSUED FOR TENDER	KK

EXISTING	LEGEND	PROPOSED
	CENTRELINE	
	UTILITY POLE	
	SIGN	
	STORM SEWER	
	CATCH BASIN	
	DITCH INLET	
	CATCH BASIN MAINTENANCE HOLE	
	SANITARY MANHOLE	
	SANITARY LINE	
	WATER LINE	
	NATURAL GAS LINE	
	SANITARY CLEAN-OUT	
	WATER VALVE	
	WATER SHUT-OFF	
	OVERHEAD POWER LINE	
	GUY WIRE	
	FIRE HYDRANT	
	TREE	
	BUSH	
	FENCE	
	BELL BOX	
	IRON BAR	
	LIGHT POST	
	PROPERTY LINES	
	TOP OF BANK	
	TOP OF DITCH	
	TOE OF SLOPE	
	CENTER OF DITCH	
	CUT	
	FILL	



COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

COUNTY ROAD 2
INTERSECTION GRADING

Drawn by:
M.J.T.

Project No:
2209778

Designed by:
J.E.

Date:
03/05/26

Checked by:
K.K.

Scale - Hor: 1:175
Vert:

Approved by:
K.K.

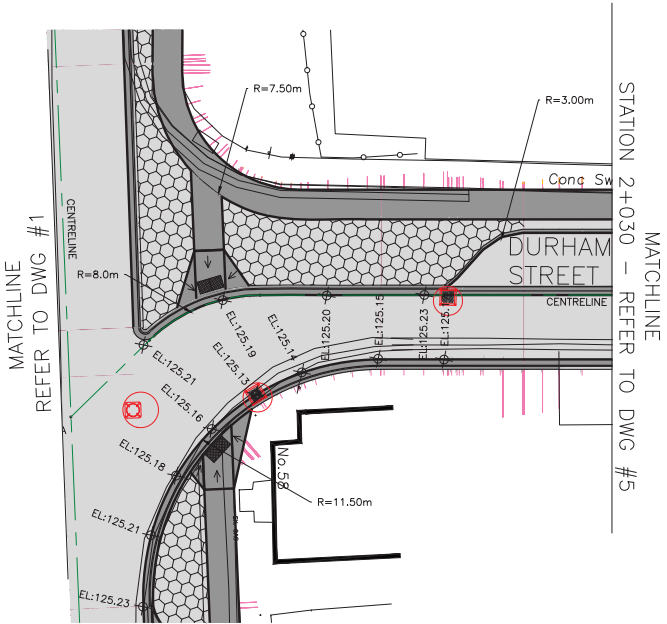
Contract No:

Drawing No:

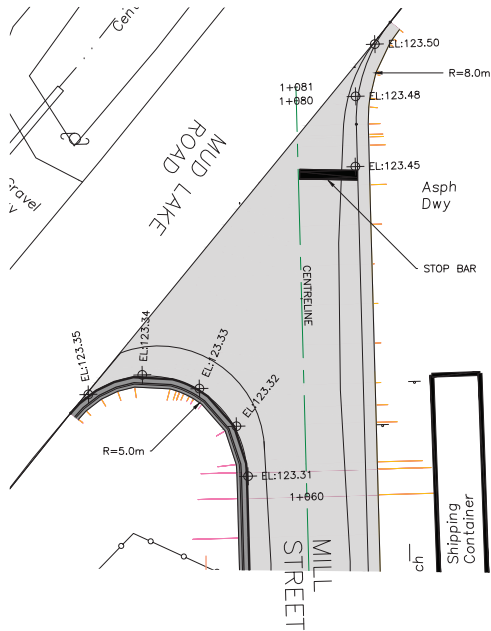
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INTERSECTION GRADING

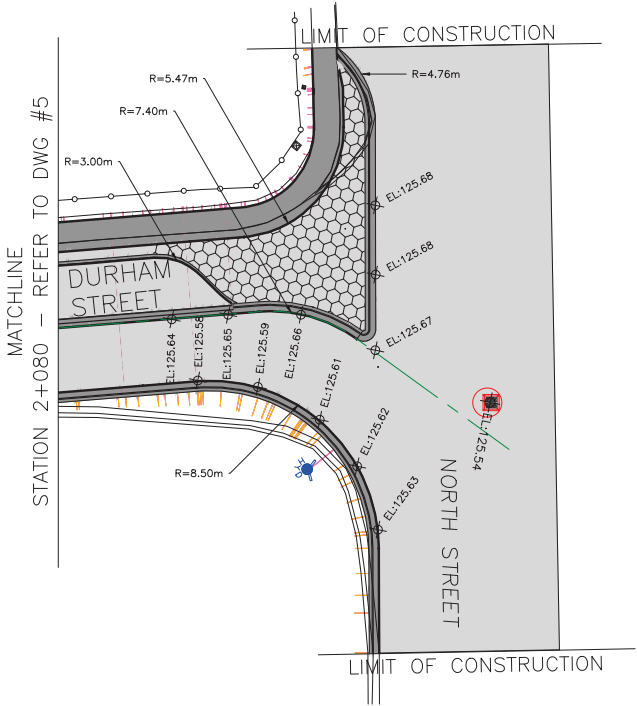
G
7
DURHAM STREET SOUTH
CURB RETURN DETAIL



I
7
MILL STREET NORTH
CURB RETURN DETAIL



H
7
DURHAM STREET NORTH
CURB RETURN DETAIL



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REVISIONS			
No.	Date	Description	By
01	01/26/26	ISSUED FOR CLIENT REVIEW	KK
02	03/06/26	ISSUED FOR TENDER	KK

EXISTING	LEGEND	PROPOSED
	CENTRELINE	
	UTILITY POLE	
	SIGN	
	STORM SEWER	
	CATCH BASIN	
	DITCH INLET	
	CATCH BASIN MAINTENANCE HOLE	
	SANITARY MANHOLE	
	SANITARY LINE	
	WATER LINE	
	NATURAL GAS LINE	
	SANITARY CLEAN-OUT	
	WATER VALVE	
	WATER SHUT-OFF	
	OVERHEAD POWER LINE	
	GUY WIRE	
	FIRE HYDRANT	
	TREE	
	BUSH	
	FENCE	
	BELL BOX	
	IRON BAR	
	LIGHT POST	
	PROPERTY LINES	
	TOP OF BANK	
	TOP OF DITCH	
	TOE OF SLOPE	
	CENTER OF DITCH	
	CUT	
	FILL	



COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

COUNTY ROAD 2
INTERSECTION GRADING

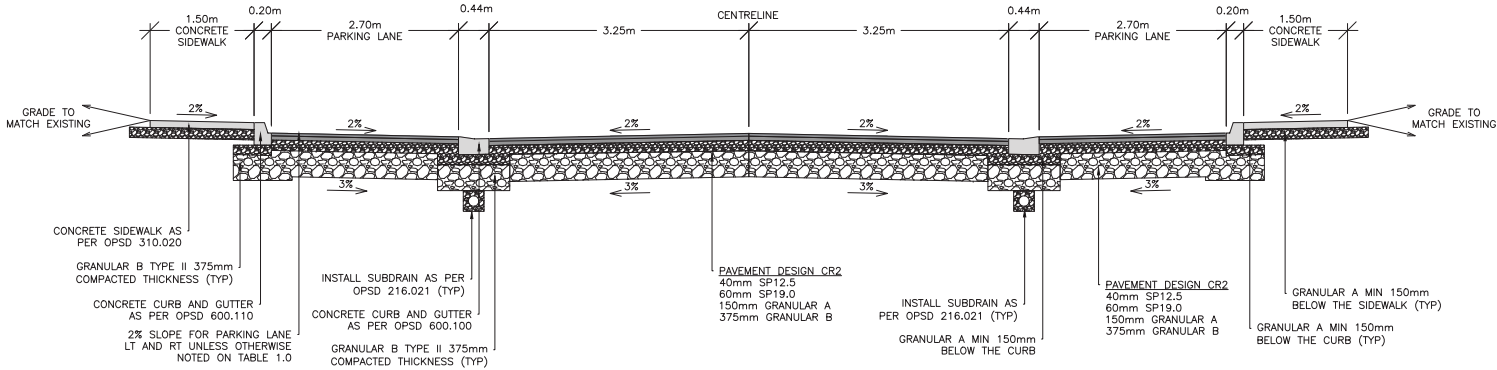
Drawn by: M.J.T.	Project No: 2209778
Designed by: J.E.	Date: 03/05/26
Checked by: K.K.	Scale - Hor: 1:175 Vert:
Approved by: K.K.	Contract No: Drawing No: 7

TYPICAL SECTION

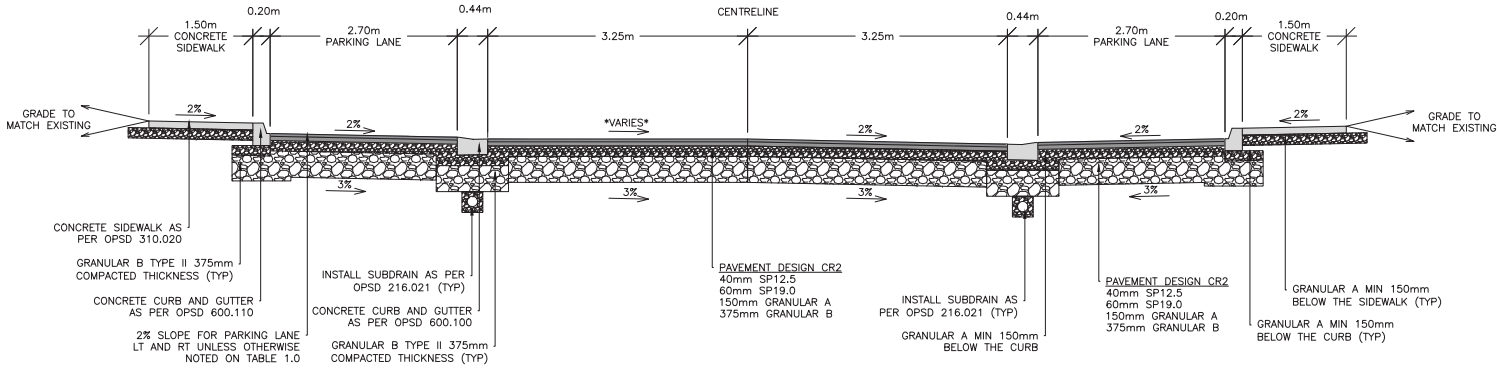
A-A COUNTY ROAD 2
8 STA. 0+340 TO STA. 0+477
STA. 0+616 TO STA. 0+690

TABLE 1.0
PARKING LANE SLOPE ADJUSTMENT

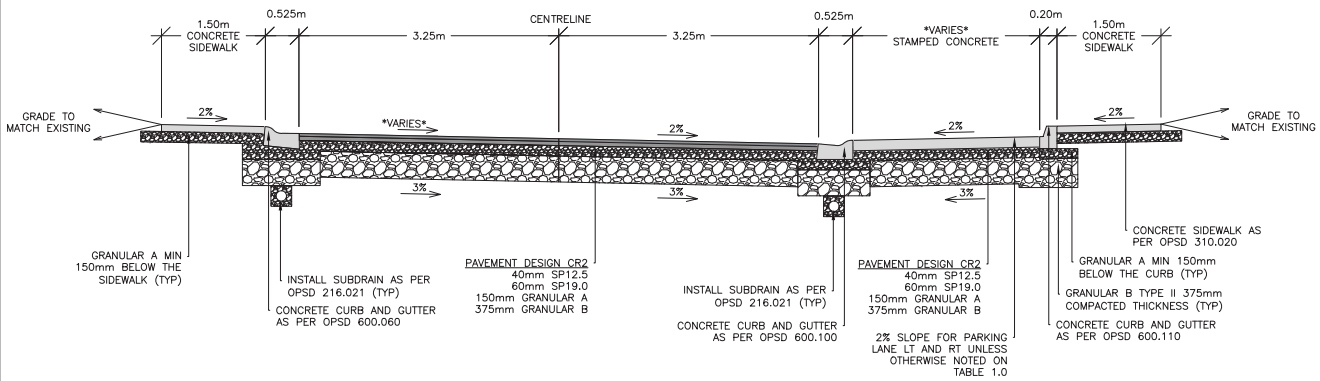
START STATION	END STATION	SLOPE	SIDE
0+360	0+373	1%	NORTH
0+362	0+441	1%	SOUTH
0+430	0+460	3%	NORTH
0+450	0+540	1%	SOUTH
0+620	0+640	1%	SOUTH
0+650	0+670	3%	NORTH



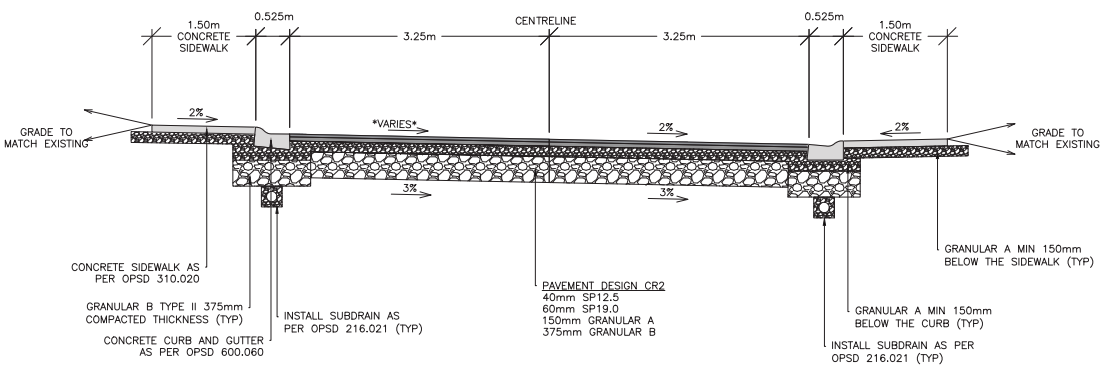
B-B COUNTY ROAD 2
8 STA. 0+477 TO STA. 0+520



C-C COUNTY ROAD 2
8 STA. 0+520 TO STA. 0+545



D-D COUNTY ROAD 2
8 STA. 0+545 TO STA. 0+561
STA. 0+587 TO STA. 0+616



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REVISIONS

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01	01/26/26	ISSUED FOR CLIENT REVIEW	KK
02	03/06/26	ISSUED FOR TENDER	KK

EXISTING	LEGEND	PROPOSED
	CENTRELINE	
	UTILITY POLE	
	SIGN	
	STORM SEWER	
	CATCH BASIN	
	DITCH INLET	
	CATCH BASIN MAINTENANCE HOLE	
	SANITARY MANHOLE	
	SANITARY LINE	
	WATER LINE	
	NATURAL GAS LINE	
	SANITARY CLEAN-OUT	
	WATER VALVE	
	WATER SHUT-OFF	
	OVERHEAD POWER LINE	
	GUY WIRE	
	FIRE HYDRANT	
	TREE	
	BUSH	
	FENCE	
	BELL BOX	
	IRON BAR	
	LIGHT POST	
	PROPERTY LINES	
	TOP OF BANK	
	TOP OF DITCH	
	TOE OF SLOPE	
	CENTER OF DITCH	
	CUT	
	FILL	



COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

COUNTY ROAD 2
TYPICAL SECTIONS

Drawn by: M.J.T.
Project No: 2209778

Designed by: J.E.
Date: 03/05/26

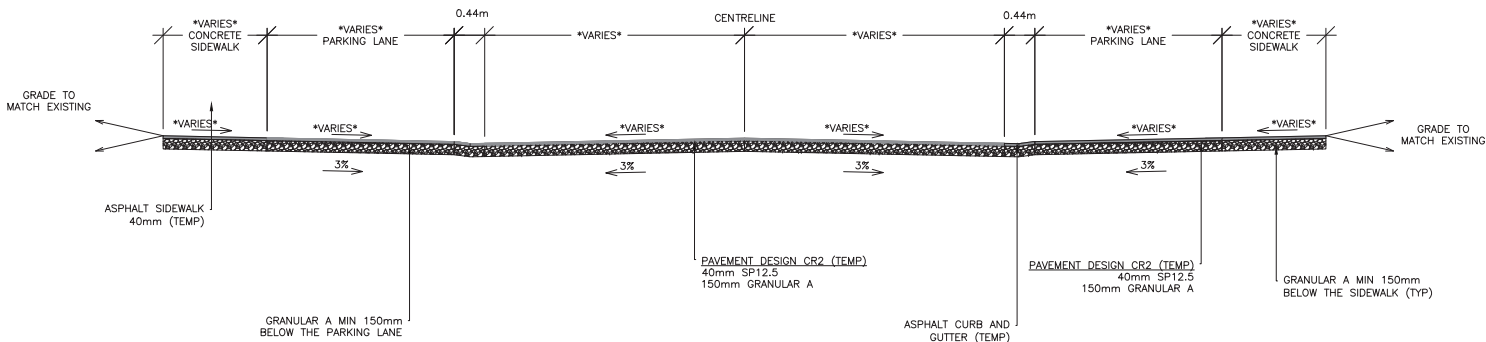
Checked by: K.K.
Scale - Hor: NTS
Vert:

Approved by: K.K.
Contract No:

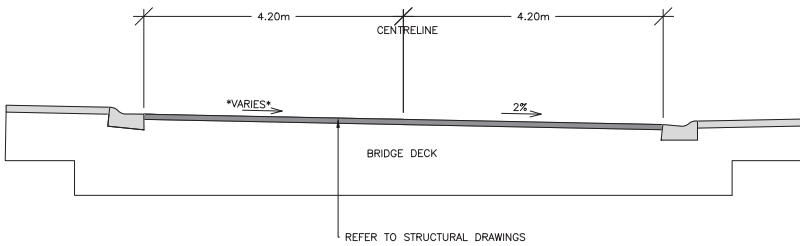
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8

TYPICAL SECTION

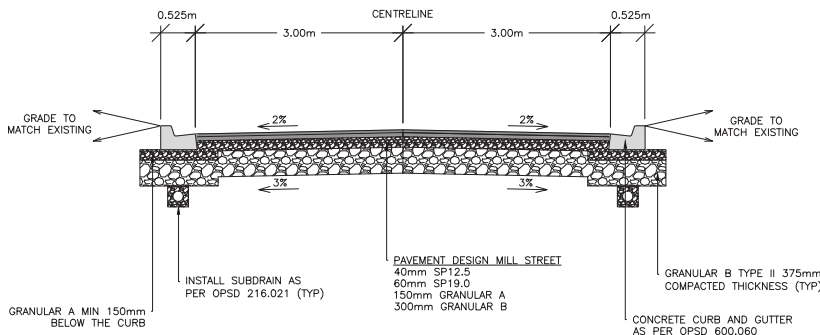
E-E COUNTY ROAD 2
9 STA. 0+695 TO STA. 0+700



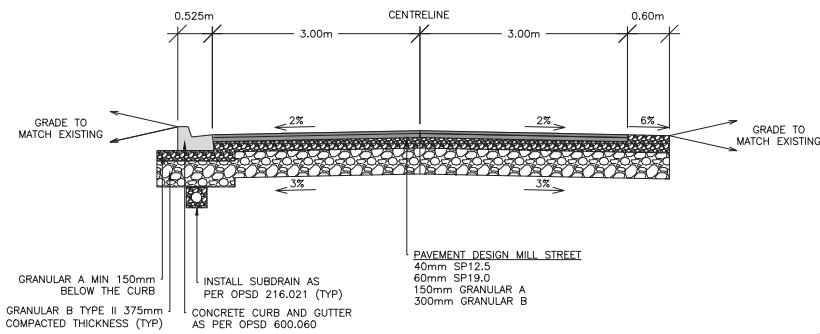
F-F COUNTY ROAD 2 (BRIDGE)
9 STA. 0+567 TO STA. 0+587



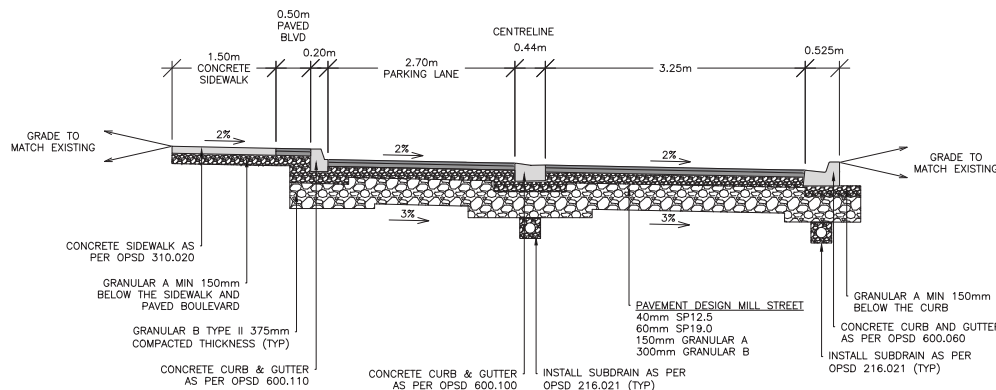
G-G MILL STREET (NORTH)
9 STA. 1+000 TO STA. 1+040



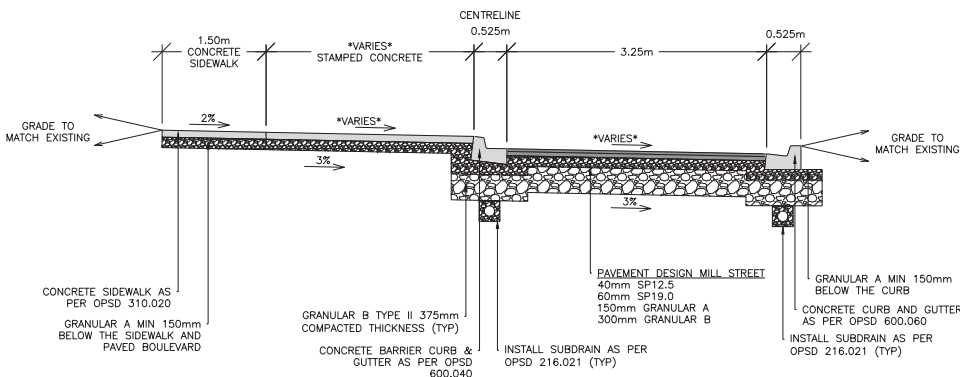
K-K MILL STREET (NORTH)
9 STA. 1+063 TO STA. 1+078



I-I DURHAM STREET
9 STA. 2+021 TO STA. 2+088



J-J DURHAM STREET
9 STA. 2+006 TO STA. 2+021
STA. 2+088 TO STA. 2+094



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REVISIONS			
No.	Date	Description	By
01	01/26/26	ISSUED FOR CLIENT REVIEW	KK
02	03/06/26	ISSUED FOR TENDER	KK

EXISTING	LEGEND	PROPOSED
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	UTILITY POLE	
	SIGN	
	STORM SEWER	
	CATCH BASIN	
	DITCH INLET	
	CATCH BASIN MAINTENANCE HOLE	
	SANITARY MANHOLE	
	SANITARY LINE	
	WATER LINE	
	NATURAL GAS LINE	
	SANITARY CLEAN-OUT	
	WATER VALVE	
	WATER SHUT-OFF	
	OVERHEAD POWER LINE	
	GUY WIRE	
	FIRE HYDRANT	
	TREE	
	BUSH	
	FENCE	
	BELL BOX	
	IRON BAR	
	LIGHT POST	
	PROPERTY LINES	
	TOP OF BANK	
	TOP OF DITCH	
	TOE OF SLOPE	
	CENTER OF DITCH	
	CUT	
	FILL	



COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

COUNTY ROAD 2
TYPICAL SECTIONS

Drawn by: M.J.T.
Project No: 2209778

Designed by: J.E.
Date: 03/05/26

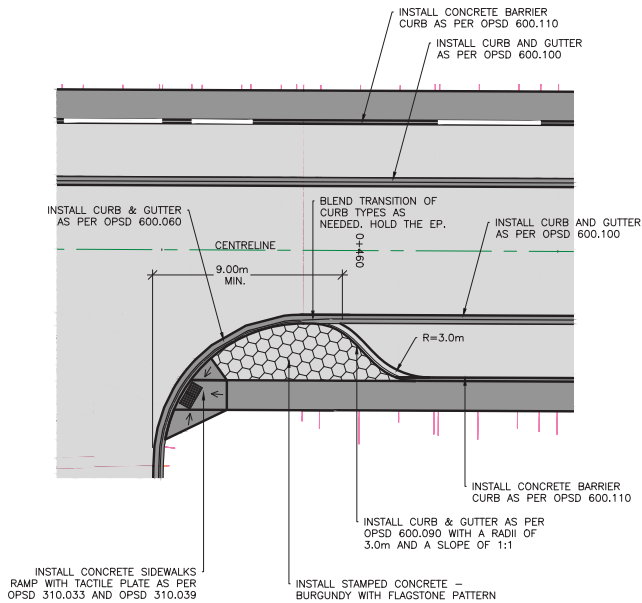
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Vert:

Approved by: K.K.
Contract No:

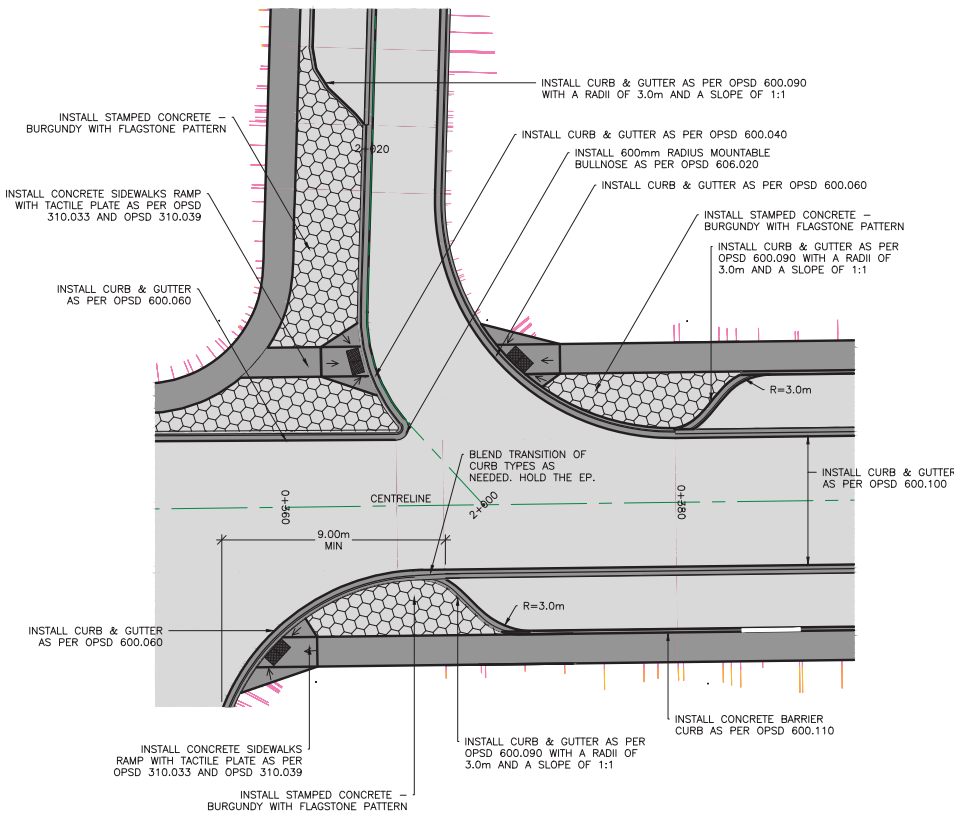
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DETAILS

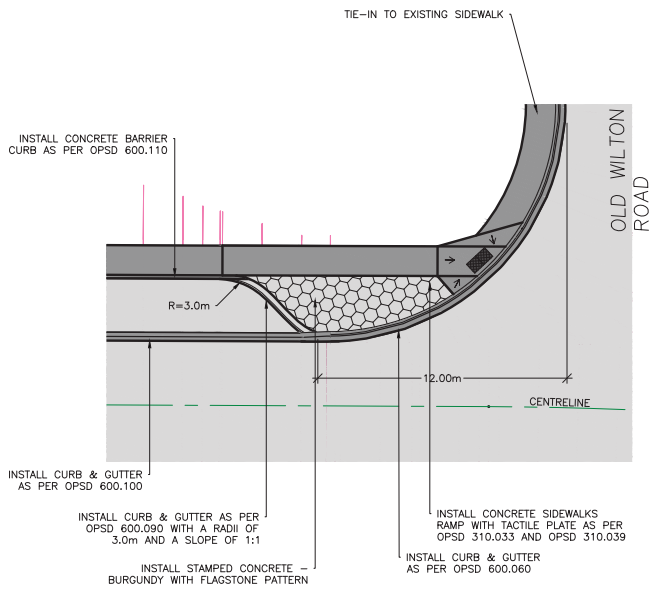
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10
CR2 CURB EXTENSION DETAIL
CROSS ST, MUD LAKE RD AND MILL ST



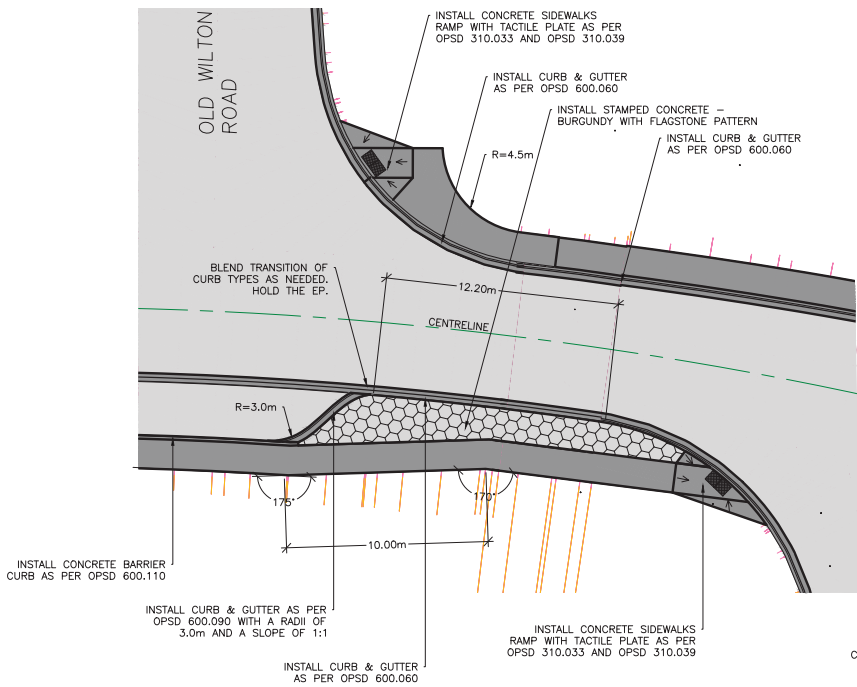
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CR2 SIDEWALK DETAIL
STA. 0+350 TO STA. 0+390



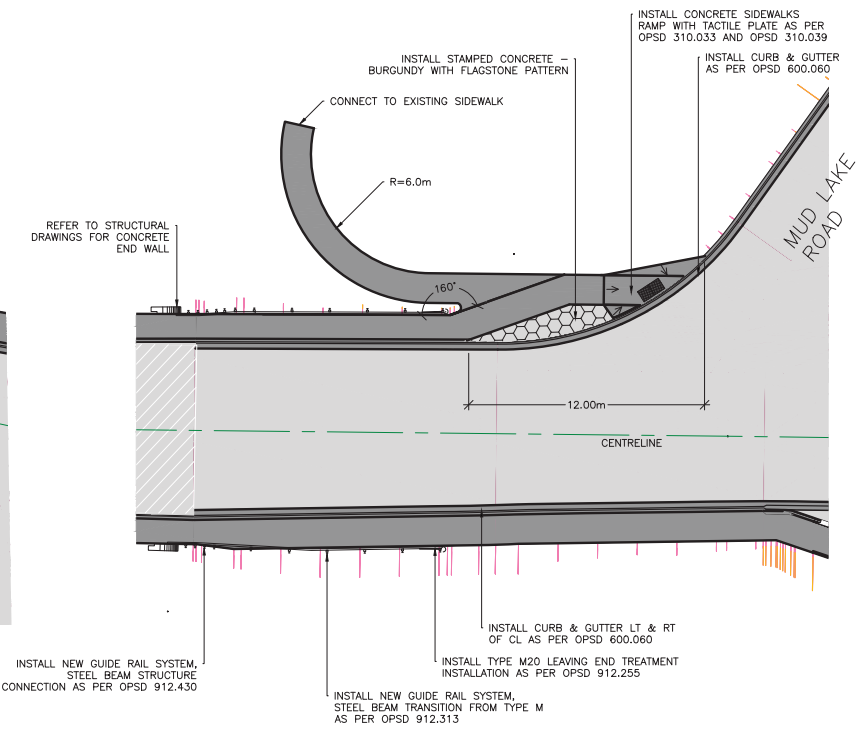
I
10
CR2 SIDEWALK DETAIL
STA. 0+485 TO STA. 0+515



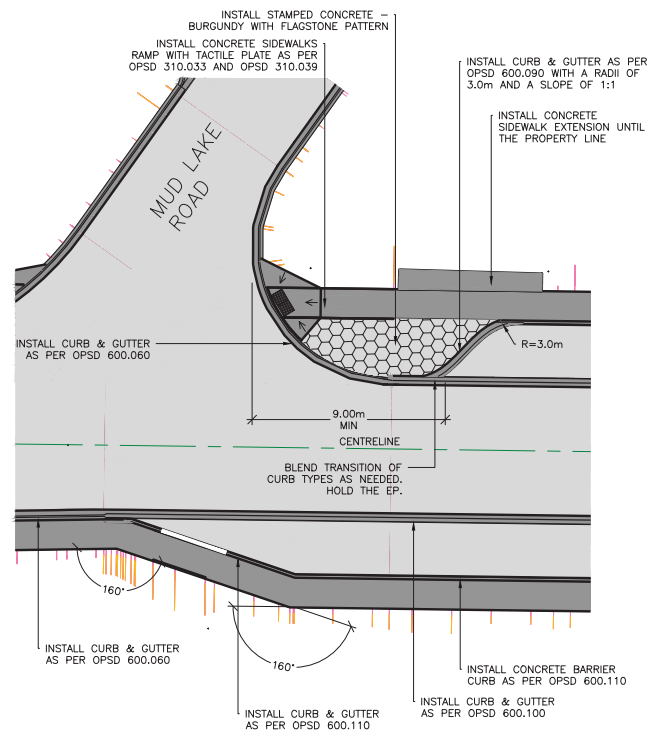
J
10
CR2 SIDEWALK DETAIL
STA. 0+505 TO STA. 0+545



K
10
CR2 SIDEWALK DETAIL
STA. 0+585 TO STA. 0+620



L
10
CR2 SIDEWALK DETAIL
STA. 0+610 TO STA. 0+640



METRIC NOTE:
ALL DIMENSIONS SHOWN ARE IN METRES OR MILLIMETRES UNLESS OTHERWISE NOTED.
DRAWINGS ARE NOT TO BE SCALED !!

REVISIONS			
No.	Date	Description	By
01	01/26/26	ISSUED FOR CLIENT REVIEW	KK
02	03/06/26	ISSUED FOR TENDER	KK

EXISTING	LEGEND	PROPOSED
	CENTRELINE	
	UTILITY POLE	
	SIGN	
	STORM SEWER	
	CATCH BASIN	
	DITCH INLET	
	CATCH BASIN MAINTENANCE HOLE	
	SANITARY MANHOLE	
	SANITARY LINE	
	WATER LINE	
	NATURAL GAS LINE	
	SANITARY CLEAN-OUT	
	WATER VALVE	
	WATER SHUT-OFF	
	OVERHEAD POWER LINE	
	GUY WIRE	
	FIRE HYDRANT	
	TREE	
	BUSH	
	FENCE	
	BELL BOX	
	IRON BAR	
	LIGHT POST	
	PROPERTY LINES	
	TOP OF BANK	
	TOP OF DITCH	
	TOE OF SLOPE	
	CENTER OF DITCH	
	CUT	
	FILL	



COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

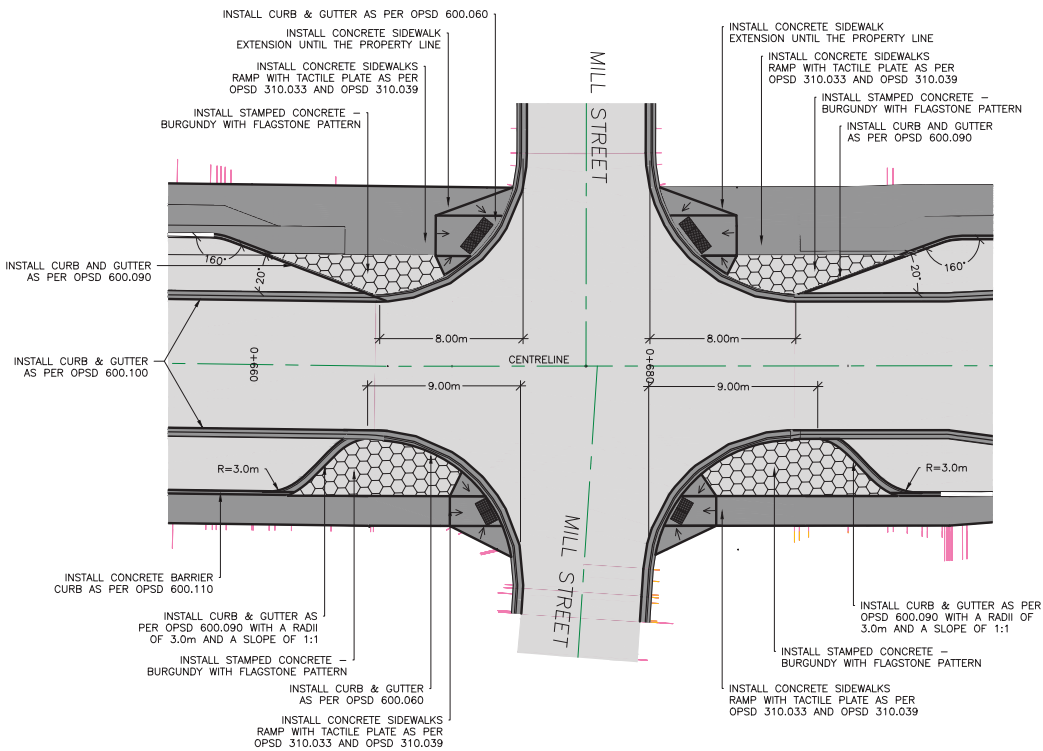
COUNTY ROAD 2
DETAILS

Drawn by: M.J.T.	Project No: 2209778
Designed by: J.E.	Date: 03/05/26
Checked by: K.K.	Scale - Hor: 1:175 Vert:
Approved by: K.K.	Contract No: Drawing No: 10

DETAILS

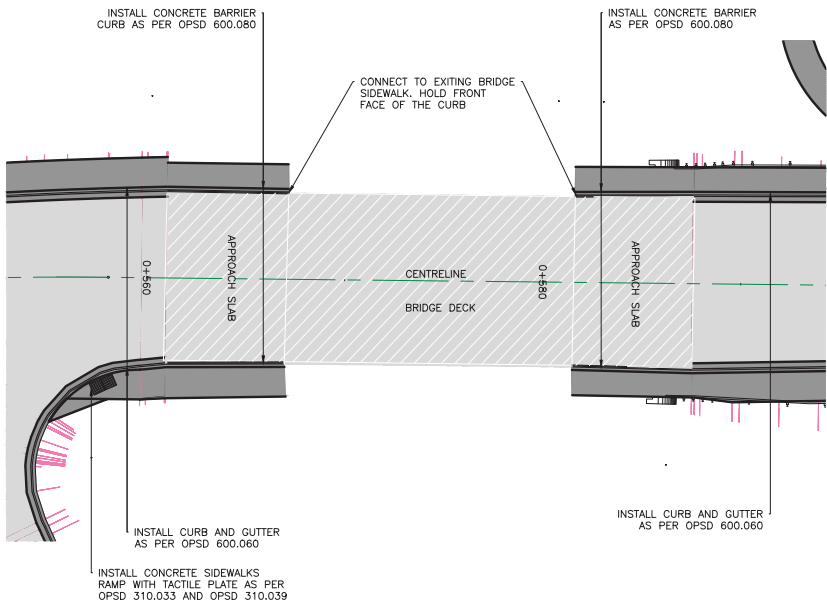
M
11

CR2 SIDEWALK DETAIL
STA. 0+655 TO STA. 0+690
SCALE 1:175



N
11

CR2 SIDEWALK DETAIL
STA. 0+553 TO STA. 0+594
SCALE 1:175



METRIC NOTE:
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REVISIONS			
No.	Date	Description	By
01	01/26/26	ISSUED FOR CLIENT REVIEW	KK
02	03/06/26	ISSUED FOR TENDER	KK

EXISTING	LEGEND	PROPOSED
	CENTRELINE	
	UTILITY POLE	
	SIGN	
	STORM SEWER	
	CATCH BASIN	
	DITCH INLET	
	CATCH BASIN MAINTENANCE HOLE	
	SANITARY MANHOLE	
	SANITARY LINE	
	WATER LINE	
	NATURAL GAS LINE	
	SANITARY CLEAN-OUT	
	WATER VALVE	
	WATER SHUT-OFF	
	OVERHEAD POWER LINE	
	GUY WIRE	
	FIRE HYDRANT	
	TREE	
	BUSH	
	FENCE	
	BELL BOX	
	IRON BAR	
	LIGHT POST	
	PROPERTY LINES	
	TOP OF BANK	
	TOP OF DITCH	
	TOE OF SLOPE	
	CENTER OF DITCH	
	CUT	
	FILL	



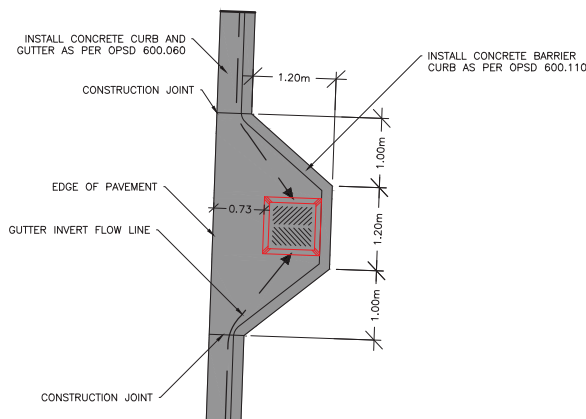
COUNTY OF
LENNOX AND ADDINGTON
COUNTY ROAD 2

COUNTY ROAD 2
DETAILS

Drawn by: M.J.T. Project No: 2209778
Designed by: J.E. Date: 03/05/26
Checked by: K.K. Scale - Hor: AS SHOWN
Approved by: K.K. Contract No: Drawing No: 11

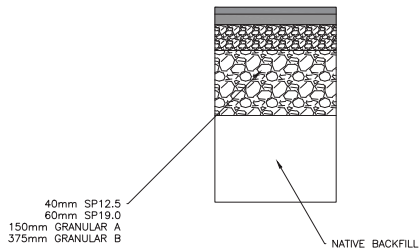
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CONCRETE DISH DETAIL
MILL STREET
SCALE 1:50



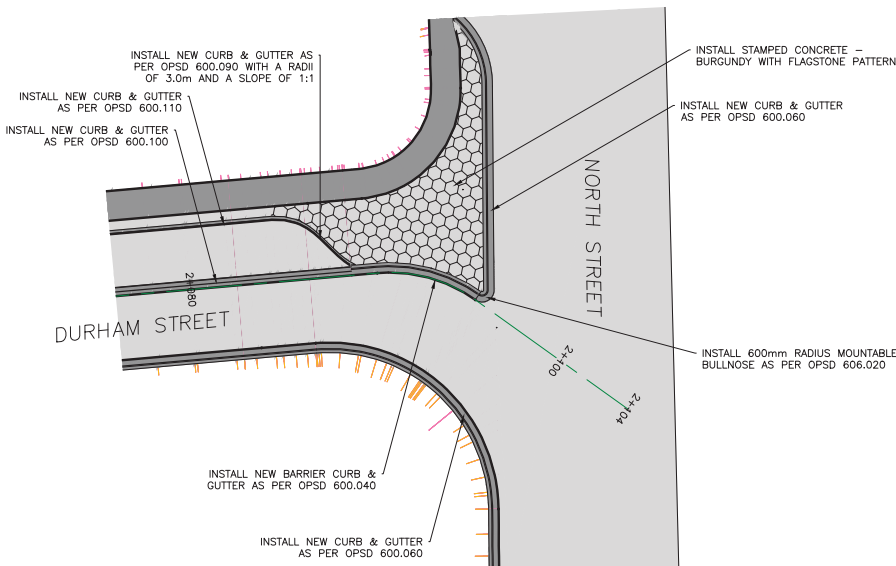
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TRENCH REINSTATEMENT DETAIL
COUNTY ROAD 2
SCALE 1:20

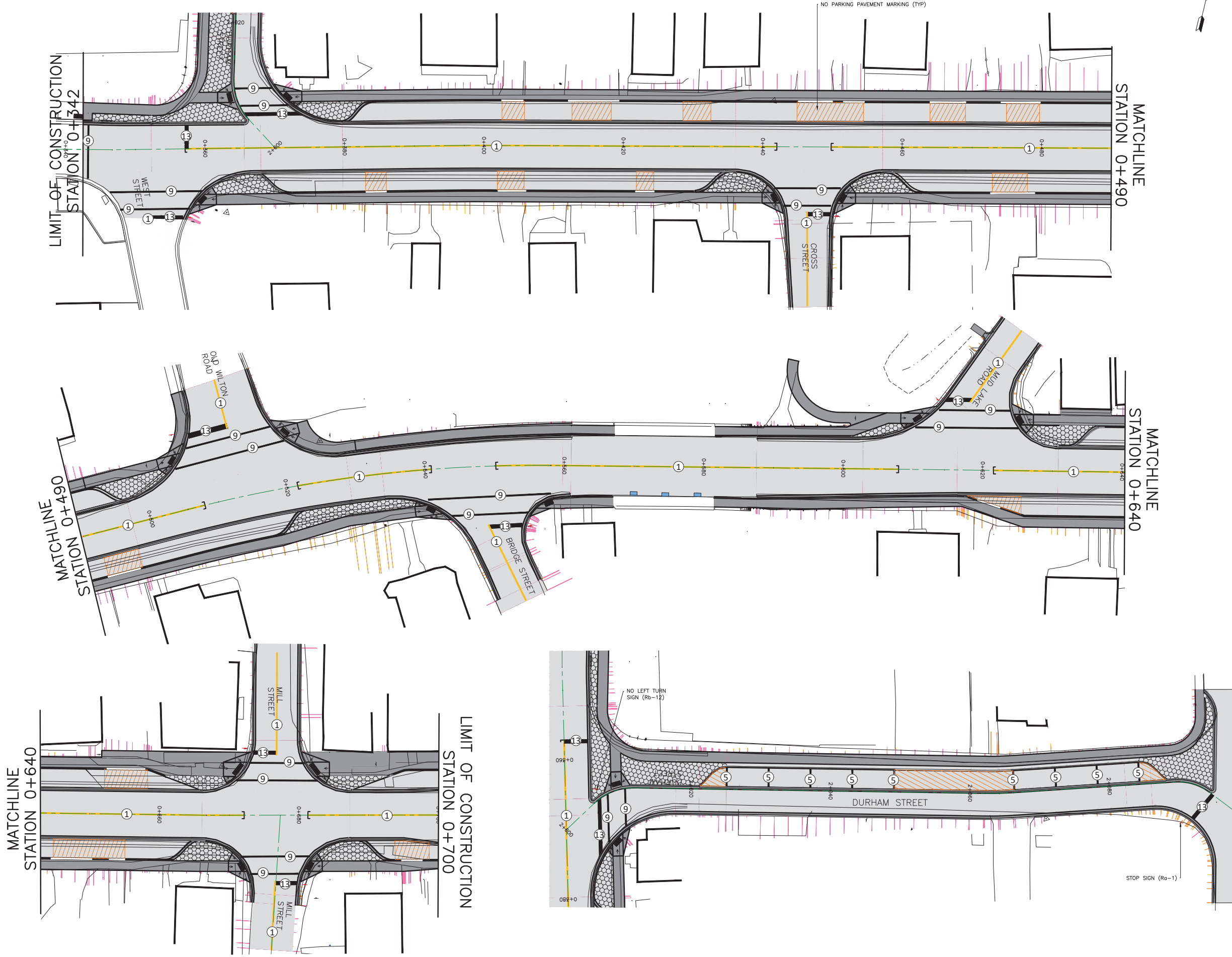


Q
11

DURHAM STREET SIDEWALK DETAIL
COUNTY ROAD 2
SCALE 1:175



PAVEMENT MARKINGS



METRIC NOTE:
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== DRAWINGS ARE NOT TO BE SCALED ==

REVISIONS			
No.	Date	Description	By
01	01/26/26	ISSUED FOR CLIENT REVIEW	KK
02	03/06/26	ISSUED FOR TENDER	KK

1	SOLID YELLOW,10cm
2	SOLID DOUBLE YELLOW,10cm
3	363 BROKEN YELLOW,10cm
4	SOLID YELLOW,20cm
5	SOLID WHITE,10cm
6	333 BROKEN WHITE,10cm
7	363 BROKEN WHITE,10cm
8	393 BROKEN WHITE,10cm
9	SOLID WHITE,20cm
10	111 BROKEN WHITE,20cm
11	333 BROKEN WHITE,20cm
12	333 BROKEN WHITE,30cm
13	SOLID WHITE,30cm
14	SOLID WHITE,45cm
15	SOLID WHITE,60cm
20	SYMBOLS
[]	LIMITS OF MARKINGS

- NOTES:
- 1, 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line, 3 m gap, 3 m line)
 - 2, Use ① to Denote PAVEMENT MARKING
 - 3, Use ① to Denote PAVEMENT MARKING, TEMPORARY
 - 4, Use △ to Denote PAVEMENT MARKING, TEMPORARY-REMOVABLE
 - 5, Use ① to Denote PAVEMENT MARKING, DURABLE



COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

COUNTY ROAD 2
PAVEMENT MARKINGS
STATION 0+340 TO 0+700
DURHAM STREET

Drawn by: M.J.T. Project No: 2209778

Designed by: J.E. Date: 03/05/26

Checked by: K.K. Scale - Hor: 1:250
Vert:

Approved by: K.K. Contract No: Drawing No: 12

STANDARD DRAWINGS

METRIC NOTE:
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-- DRAWINGS ARE NOT TO BE SCALED --

REVISIONS			
No.	Date	Description	By
01	01/26/26	ISSUED FOR CLIENT REVIEW	KK
02	03/06/26	ISSUED FOR TENDER	KK

EXISTING	LEGEND	PROPOSED
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	UTILITY POLE	
	SIGN	
	STORM SEWER	
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	DITCH INLET	
	CATCH BASIN MAINTENANCE HOLE	
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	SANITARY LINE	
	WATER LINE	
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	SANITARY CLEAN-OUT	
	WATER VALVE	
	WATER SHUT-OFF	
	OVERHEAD POWER LINE	
	GUY WIRE	
	FIRE HYDRANT	
	TREE	
	BUSH	
	FENCE	
	BELL BOX	
	IRON BAR	
	LIGHT POST	
	PROPERTY LINES	
	TOP OF BANK	
	TOP OF DITCH	
	TOE OF SLOPE	
	CENTER OF DITCH	
	CUT	
	FILL	



COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

COUNTY ROAD 2
STANDARD DRAWINGS

Drawn by:
M.J.T.

Project No:
2209778

Designed by:
J.E.

Date:
03/05/26

Checked by:
K.K.

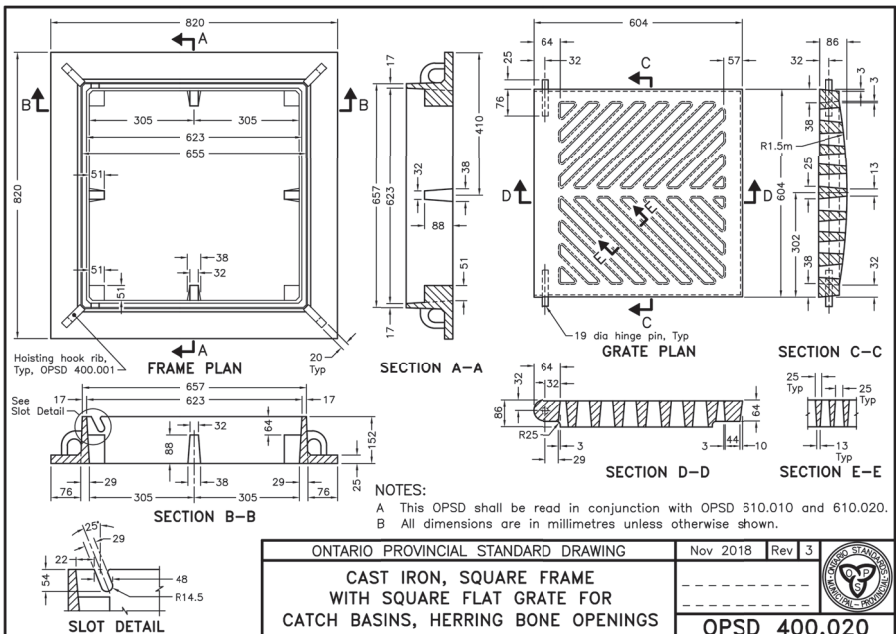
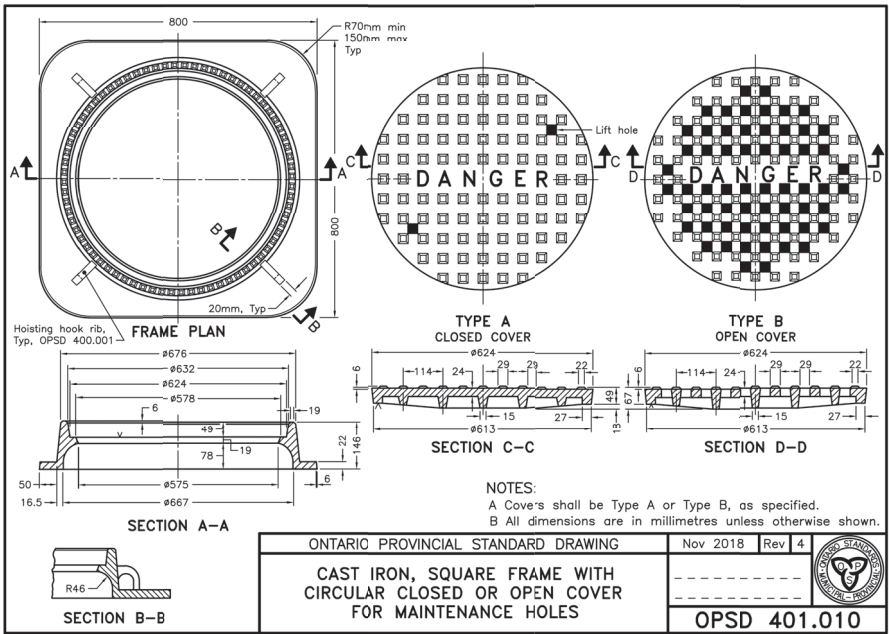
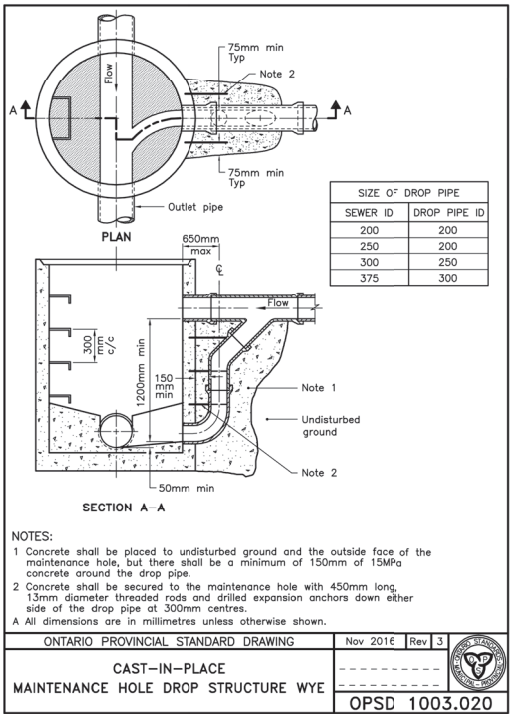
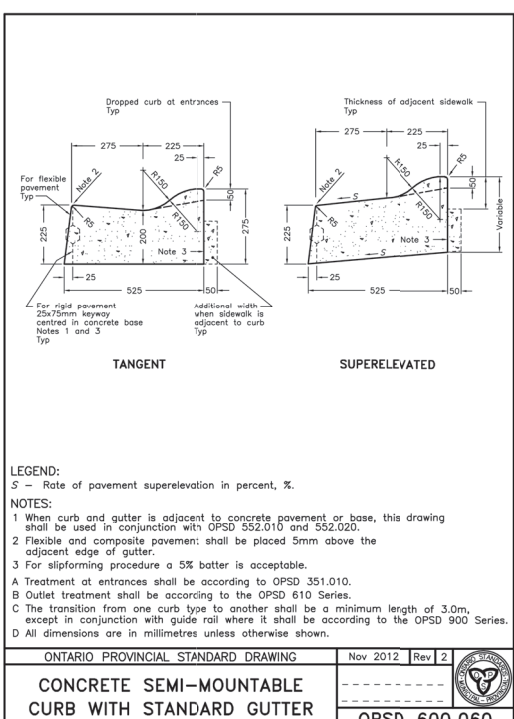
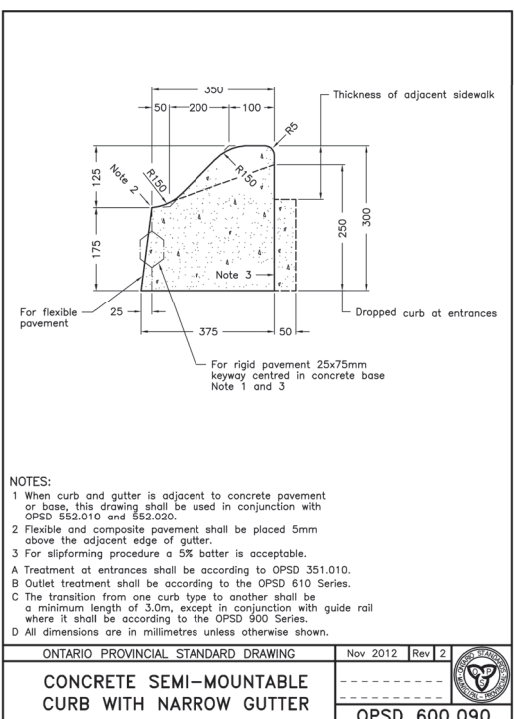
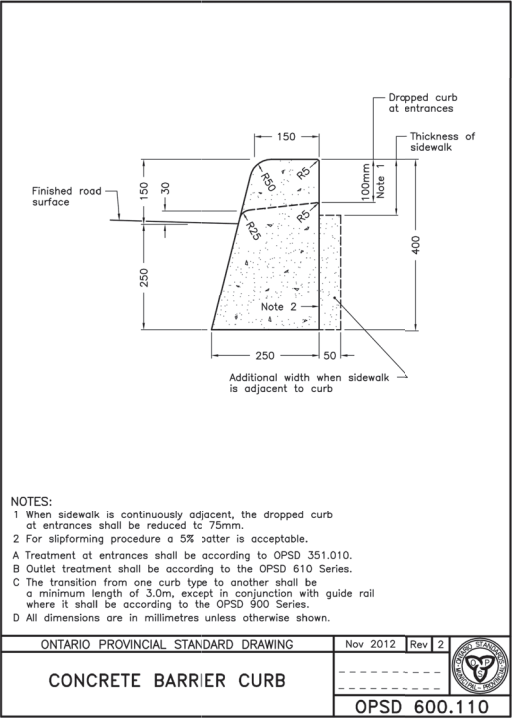
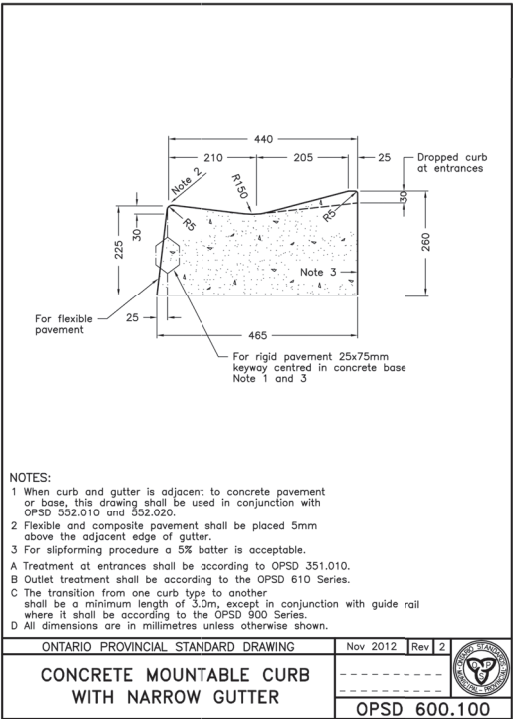
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Vert:

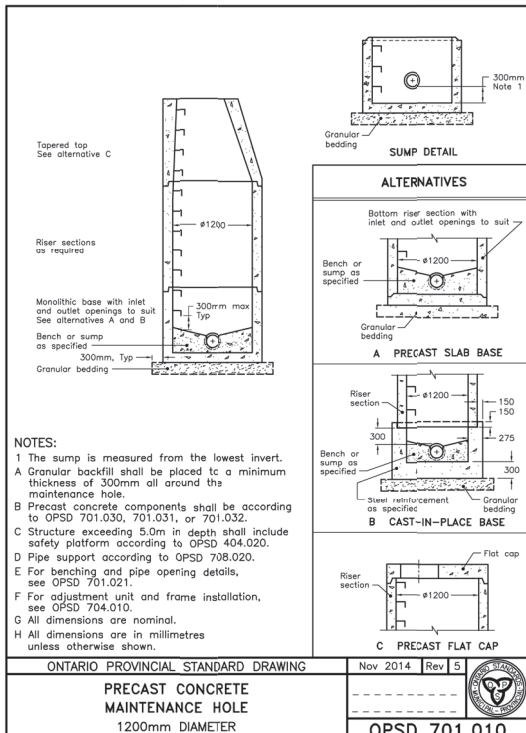
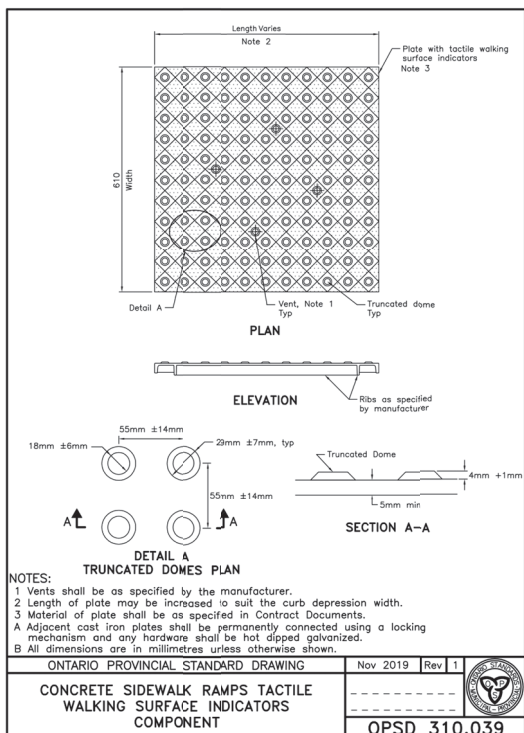
Approved by:
K.K.

Contract No:

Drawing No:

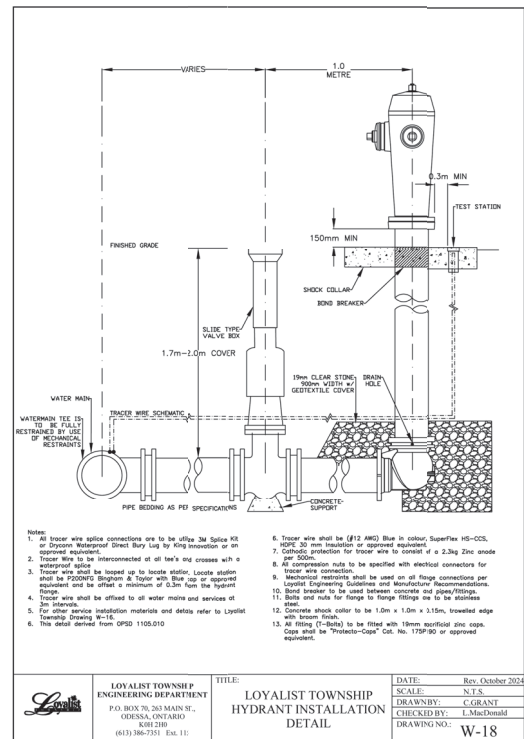
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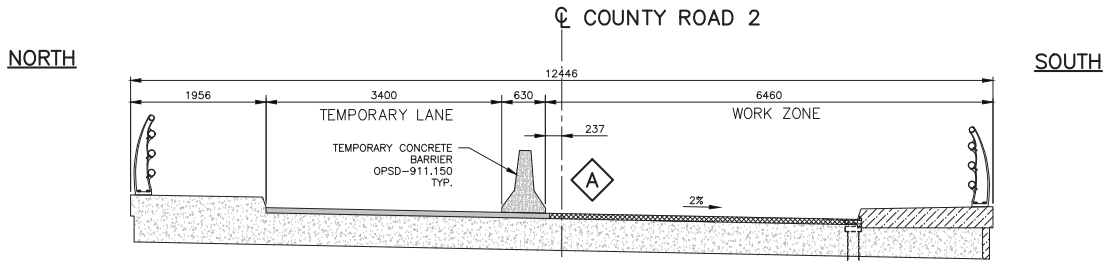




REVISIONS			
No.	Date	Description	By
01	01/26/26	ISSUED FOR CLIENT REVIEW	KK
02	03/06/26	ISSUED FOR TENDER	KK

EXISTING	LEGEND	PROPOSED
	CENTRELINE	
	UTILITY POLE	
	SIGN	
	STORM SEWER	
	CATCH BASIN	
	DITCH INLET	
	CATCH BASIN MAINTENANCE HOLE	
	SANITARY MANHOLE	
	SANITARY LINE	
	WATER LINE	
	NATURAL GAS LINE	
	SANITARY CLEAN-OUT	
	WATER VALVE	
	WATER SHUT-OFF	
	OVERHEAD POWER LINE	
	GUY WIRE	
	FIRE HYDRANT	
	TREE	
	BUSH	
	FENCE	
	BELL BOX	
	IRON BAR	
	LIGHT POST	
	PROPERTY LINES	
	TOP OF BANK	
	TOP OF DITCH	
	TOE OF SLOPE	
	CENTER OF DITCH	
	CUT	
	FILL	





STAGE 1
1:50

NOTE:
SINGLE LANE TRAFFIC TO BE MAINTAINED THROUGHOUT CONSTRUCTION

NOTE:
ASPHALT PAVE BINDER COURSE ONLY IN EACH STAGE OF CONSTRUCTION. FOLLOWING PLACEMENT OF BINDER COURSE IN STAGE 2, REMOVE TRAFFIC CONTROL MEASURES. PLACE SURFACE COURSE ON ENTIRE BRIDGE DECK WITH TEMPORARY TRAFFIC CONTROL MEASURES ACCORDING TO BOOK 7 OF THE ONTARIO TRAFFIC MANUAL.

SCOPE OF WORK:

STAGE 1

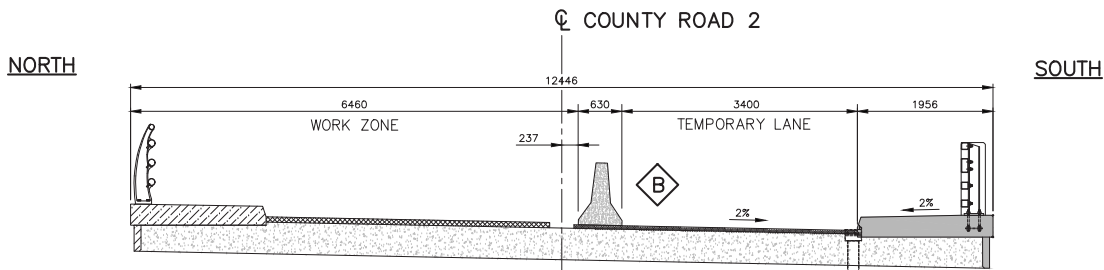
1. INSTALL TRAFFIC PROTECTION SYSTEM, TEMPORARY TRAFFIC CONTROL SIGNS AND SIGNALS AND REVISE PAVEMENT MARKINGS.
2. PERFORM WORK ON CLOSED SECTION.

STAGE 2

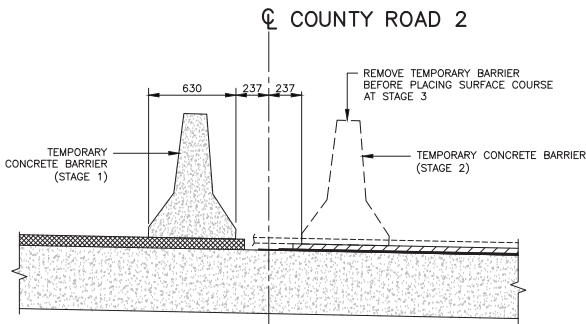
1. MODIFY TRAFFIC PROTECTION SYSTEM AND REVISE TEMPORARY TRAFFIC CONTROL SIGNS AND SIGNALS.
2. PERFORM WORK ON CLOSED SECTION.
3. REMOVE TRAFFIC PROTECTION SYSTEM AND INSTALL FINAL PAVEMENT MARKINGS FOR BOTH TRAFFIC LANES.

STAGE 3

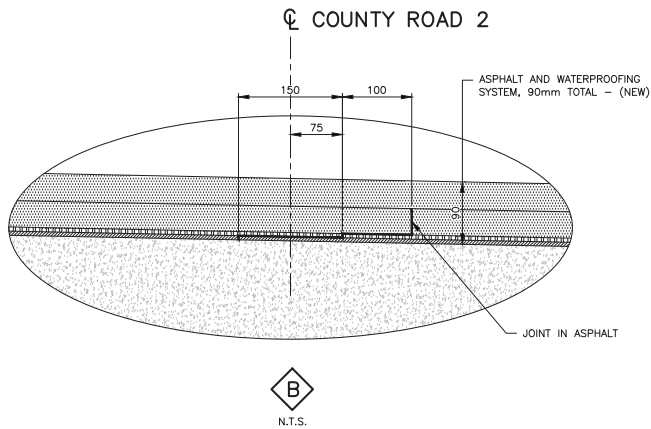
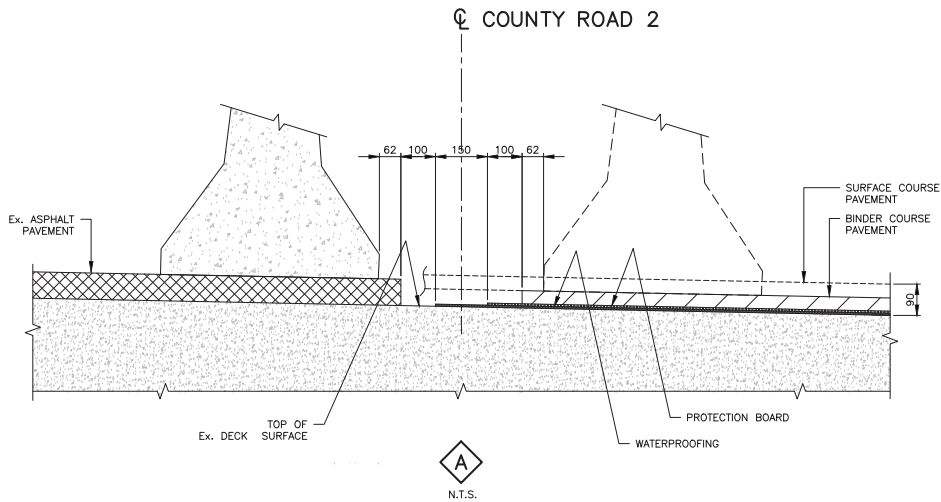
1. REMOVE TRAFFIC PROTECTION SYSTEM AND COMPLETE REMINDER OF WORK USING FLAGPERSONS.
2. PLACE SURFACE COURSE ASPHALT OVER FULL ROADWAY.
1. COMPLETE FINAL PAVEMENT MARKINGS.



STAGE 2
1:50



SURFACE TREATMENT BETWEEN STAGES
1:25



GENERAL NOTES:
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ALL UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL CONFIRM THE LOCATION ON SITE AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES.
EXCLUDING THE BENCHMARK AND DESCRIPTION PROVIDED FOR THIS PROJECT, NO OTHER ELEVATIONS ARE TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.
METRIC NOTE:
ALL DIMENSIONS SHOWN ARE IN IMPERIAL AND CAN BE CONVERTED TO METRIC BY MULTIPLYING BY 0.3048 UNLESS OTHERWISE NOTED.
** DRAWINGS ARE NOT TO BE SCALED **

REVISIONS			
No.	Date	Description	By
1			

LEGEND:

	ASPHALT REMOVAL
	CONCRETE REMOVALS
	Ex. CONCRETE AFTER REMOVALS
	NEW CONCRETE
	NEW ASPHALT

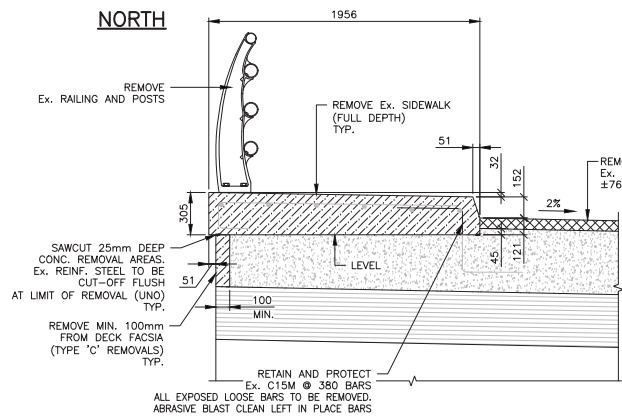
JEWELL
ENGINEERING

KINGSTON BELLEVILLE CANTONVILLE
TEL: (613) 369-7280 TEL: (613) 969-1111 TEL: (905) 257-2880
FAX: (613) 369-2754 FAX: (613) 969-0808 E-mail: oakville@jewelling.ca
E-mail: kingston@jewelling.ca E-mail: info@jewelling.ca
TOLL FREE: 1-800-966-4338
www.jewelling.ca

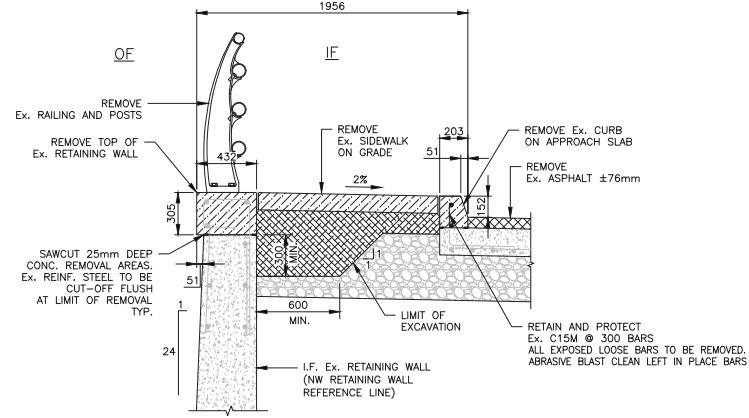
COUNTY OF
LENNOX AND ADDINGTON
MILLHAVEN CREEK BRIDGE
REHABILITATION
COUNTY ROAD 2

STRUCTURAL STAGING

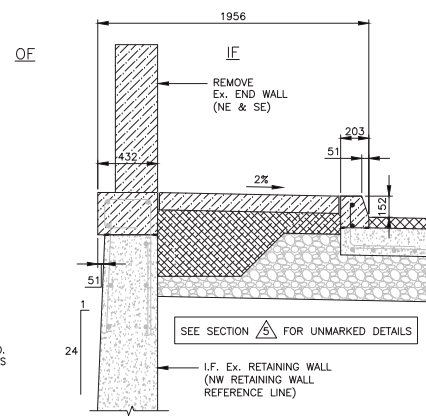
Drawn by: Jewell Project No:
N.K. 2509922.1
Designed by: Date:
A.S. JANUARY 2026
Checked by: Scale - Hor: AS NOTED
C.B. Vert: AS NOTED
Approved by: Contract No: Drawing No:
K.F.B. 2026-01 S3



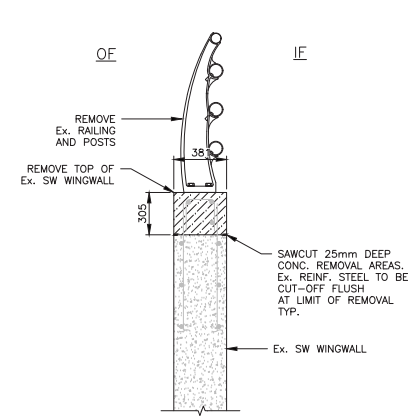
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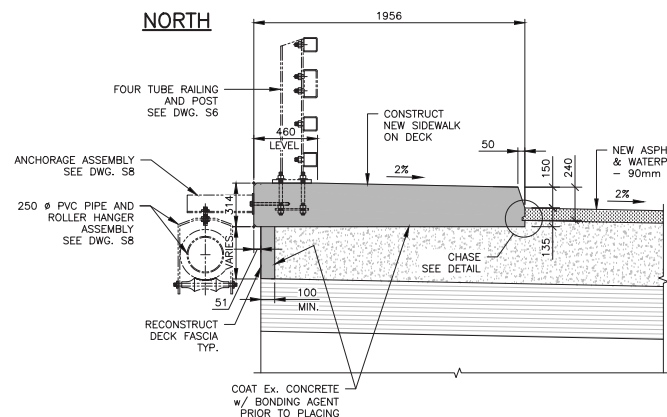
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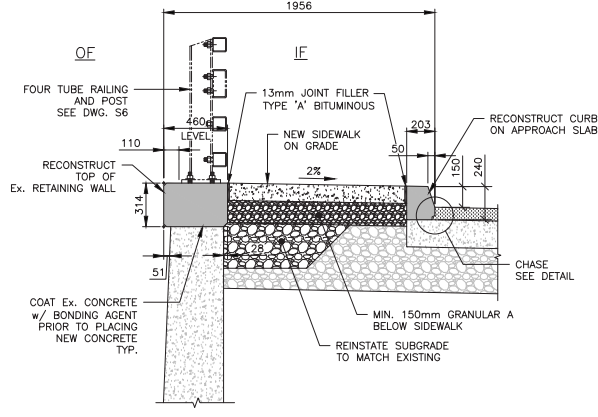
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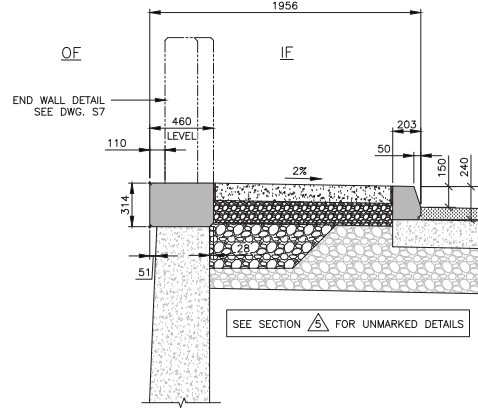
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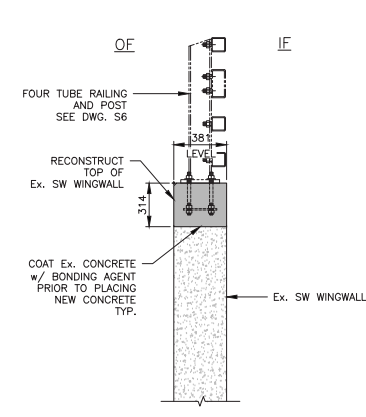
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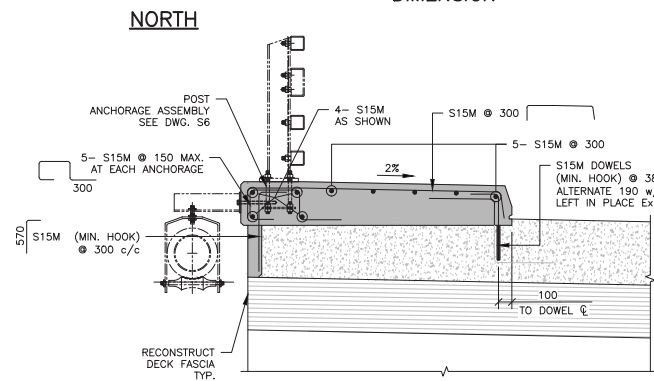
DIMENSION



DIMENSION

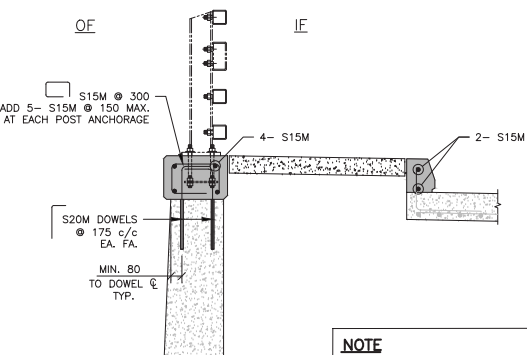


DIMENSION



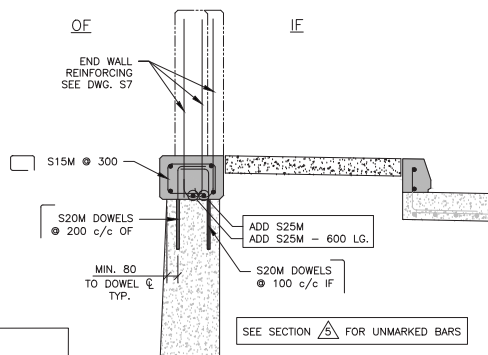
REINFORCING

4
DWGS S1 & S2
1:25



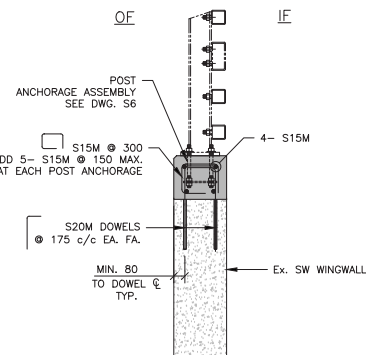
REINFORCING

5
DWGS S1 & S2
1:25



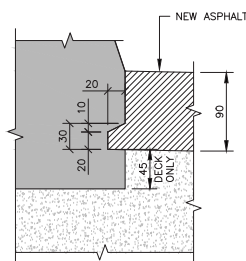
REINFORCING

6
DWGS S1 & S2
1:25

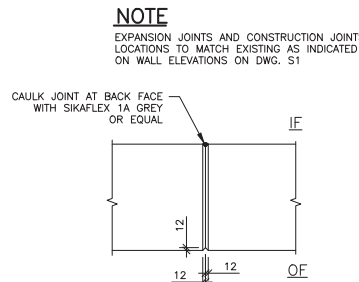


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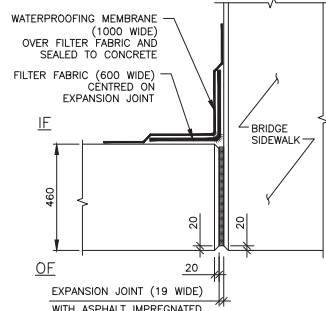
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DWGS S1 & S2
1:25



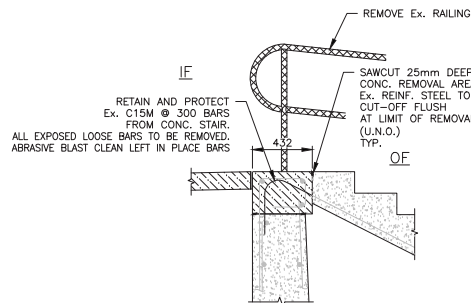
CHASE DETAIL
N.T.S.



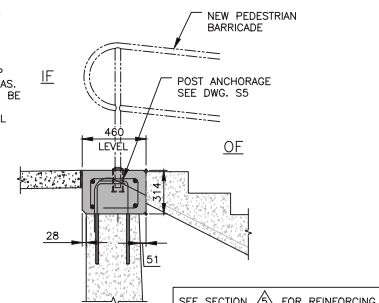
TYPICAL CONSTRUCTION JOINT
IN RETAINING WALL DETAIL
1:15



TYPICAL EXPANSION JOINT DETAIL
BETWEEN BRIDGE DECK AND RETAINING WALL
1:15



EXISTING AND REMOVALS



DIMENSION AND REINFORCING

8
DWGS S1 & S2
1:25

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** DRAWINGS ARE NOT TO BE SCALED **

REVISIONS			
No.	Date	Description	By
1			

- NOTES**
- CONCRETE SHALL BE REMOVED IN SUCH A MANNER TO PREVENT DAMAGE TO EX. DECK.
 - RETAIN AND PROTECT EXISTING REINFORCING STEEL ON SIDEWALK AND APPROACH SLAB AS SPECIFIED ON DRAWING.
 - ALL EXPOSED LOOSE BARS TO BE REMOVED.
 - ABRASIVE BLAST CLEAN LEFT IN PLACE BARS AND APPLY APPROVED COATING.

- LEGEND:**
- ASPHALT REMOVAL
 - CONCRETE REMOVALS
 - NEW CONCRETE
 - EX. CONCRETE AFTER REMOVALS

NOTE:
INFORMATION REGARDING EXISTING REINFORCING STEEL WAS ABSTRACTED FROM ORIGINAL CONSTRUCTION DRAWINGS.
ACTUAL CONDITION MAY BE DIFFERENT.

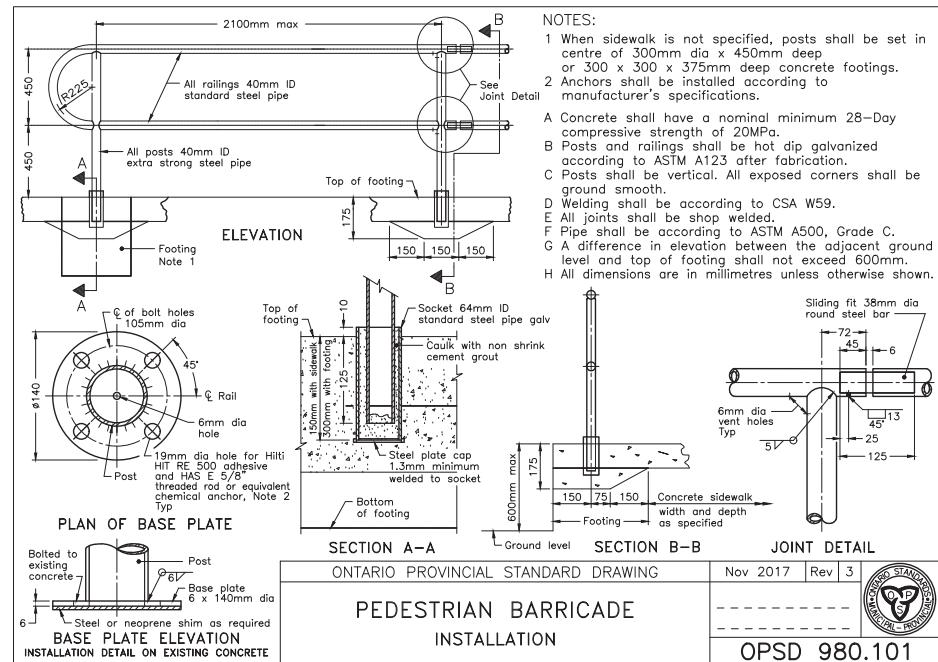
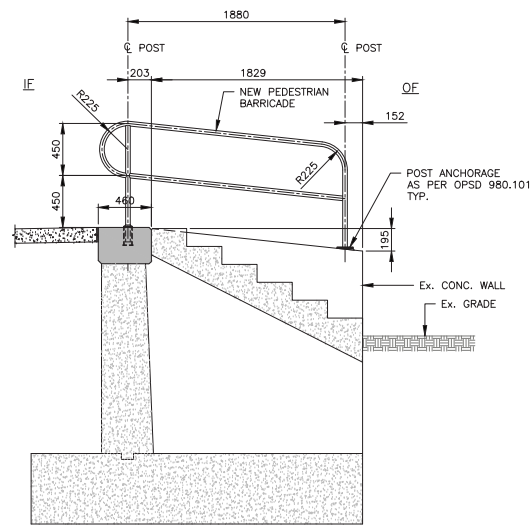
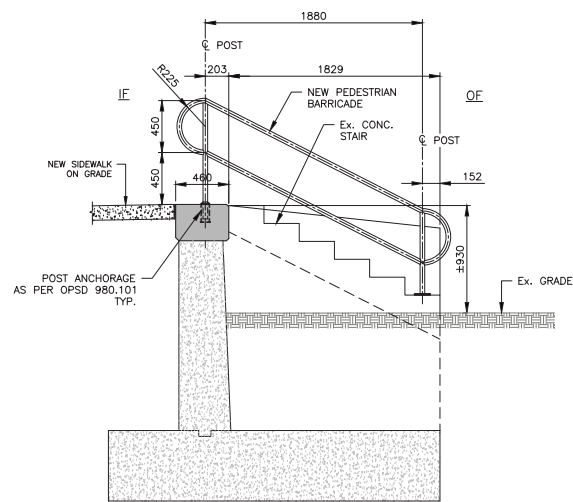
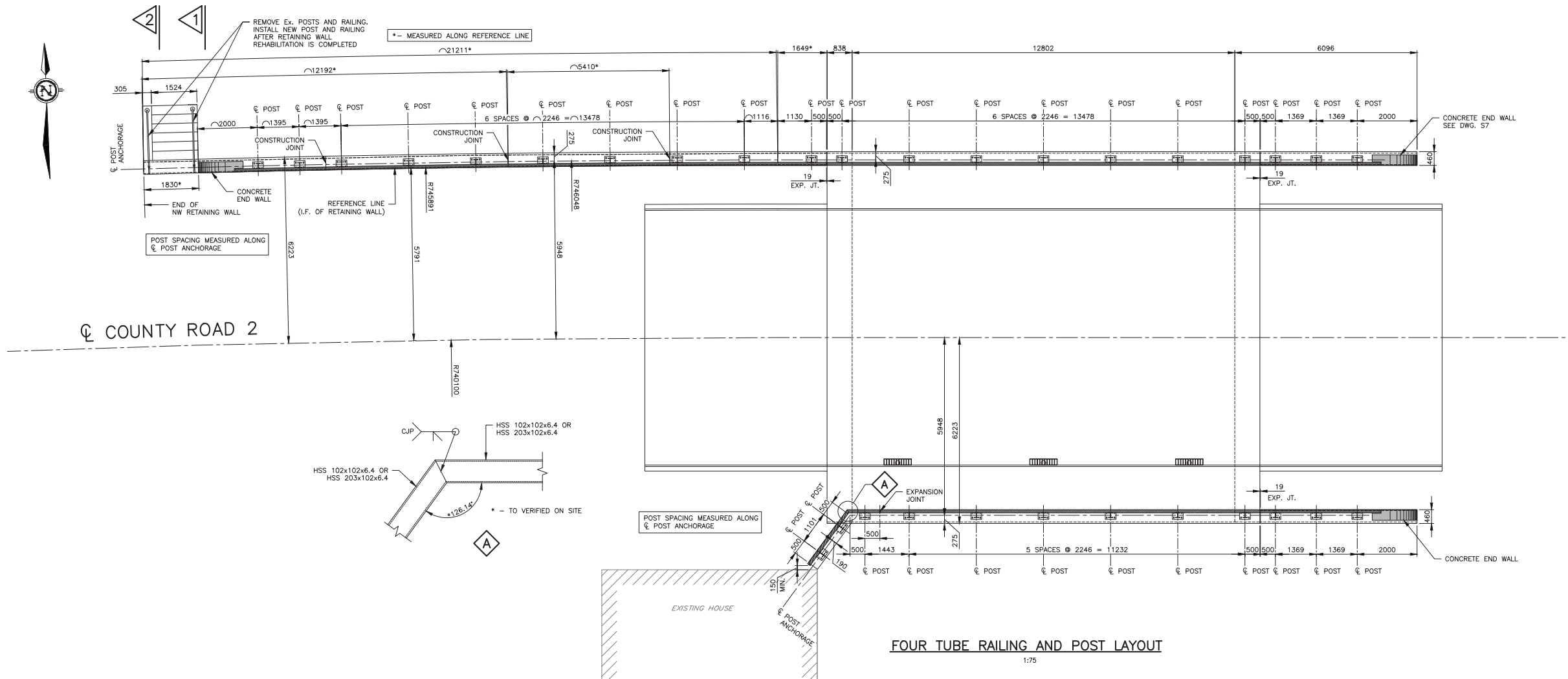
**JEWELL
ENGINEERING**

KINGSTON BELLEVILLE CANTONVILLE
TEL: (613) 399-7280 TEL: (613) 969-1111 TEL: (905) 257-2880
FAX: (613) 399-7254 FAX: (613) 969-0808 E-mail: c.vallin@jewelling.ca
E-mail: k.kingston@jewelling.ca E-mail: info@jewelling.ca
TOLL FREE: 1-800-966-4338
www.jewelling.ca

COUNTY OF
LENNOX AND ADDINGTON
MILLHAVEN CREEK BRIDGE
REHABILITATION
COUNTY ROAD 2

REMOVALS AND REHABILITATION DETAILS

Drawn by: N.K. Jewell Project No: 2509922.1
Designed by: A.S. Date: JANUARY 2026
Checked by: C.B. Scale - Hor: AS NOTED
Approved by: K.F.B. Contract No: 2026-01 Vert: AS NOTED
Drawing No: S4



GENERAL NOTES:

ALL INFORMATION TO BE VERIFIED ON SITE PRIOR TO COMMENCING ANY WORK. ANY DISCREPANCIES ARE TO BE REPORTED TO THE CONSULTANT IMMEDIATELY.

ALL UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL CONFIRM THE LOCATION ON SITE AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES.

EXCLUDING THE BENCHMARK AND DESCRIPTION PROVIDED FOR THIS PROJECT, NO OTHER ELEVATIONS ARE TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.

METRIC NOTE:

ALL DIMENSIONS SHOWN ARE IN IMPERIAL AND CAN BE CONVERTED TO METRIC BY MULTIPLYING BY 0.3048 UNLESS OTHERWISE NOTED.

**** DRAWINGS ARE NOT TO BE SCALED ****

REVISIONS			
No.	Date	Description	By
1			



KINGSTON **BELLEVILLE** **CAKOVILLE**

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TOLL FREE: 1-800-966-4338

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**COUNTY OF
LENNOX AND ADDINGTON
MILLHAVEN CREEK BRIDGE
REHABILITATION
COUNTY ROAD 2**

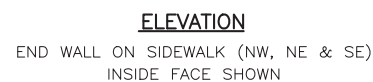
**FOUR TUBE RAILING AND POSTS LAYOUT
PEDESTRIAN BARRICADE DETAILS**

Drawn by: N.K. Jewell Project No: 2509922.1

Designed by: A.S. Date: JANUARY 2026

Checked by: C.B. Scale - Hor: AS NOTED
Vert: AS NOTED

Approved by: K.F.B. Contract No: 2026-01 Drawing No: S5



BAR MARK	SIZE	SHAPE
①	S10M	STRAIGHT
②	S10M	STRAIGHT VARIES
③	S15M	
④	S15M	
⑤	S15M	
⑥	S15M	STRAIGHT
⑦	S15M	STRAIGHT
⑧	S15M	STRAIGHT
⑨	S15M	
⑩	S15M	
⑪	S15M	STRAIGHT VARIES
⑫	S15M	STRAIGHT VARIES

Drawn by: N.K. Jewell Project No: 2509922.1

Designed by: A.S. Date: JANUARY 2026

Checked by: C.B. Scale - Hor: AS NOTED
Vert: AS NOTED

Approved by: K.F.B. Contract No: 2026-01 Drawing No: S7

SS110-66

STANDARD DRAWING MAY 2018	SS110-66
CONCRETE END WALL FOR BOX BEAM RAILING (STAINLESS STEEL REBAR)	


$$\underline{\underline{\triangle 2}}$$

WM SUPPORT ON DECK AS SHOWN
WM SUPPORT ON RETAINING WALL SIMILAR



SUPPORT A
1:5



DWG S
1:15

50mm THK RIGID CLOSED CELL INSULATION
NOT SHOWN FOR CLARITY



SUPPORT B
1:5

PLAN

1. ALL PVC PIPE FOR WATERMAIN SHALL CONFORM TO AWWA C900 STANDARDS.
2. FITTINGS SHALL BE PVC ACCORDING TO ASTM 2466 SCHEDULE 40/80 OR CSA B137.
3. PVC PIPE AND FITTINGS SHALL HAVE WALL THICKNESS AND ALL FITTINGS CONFORMING TO SDR 18 FOR CP 235.
4. PVC PIPE AND ALL RESTRAINT JOINT COMPRISING SPIGOT AND GASKET SHALL CONFORM TO "RING AND PIN" GASKETED JOINT "IPEX TERRABRITE" MANUFACTURER OR APPROVED EQUIVALENT.
5. PVC PIPE RIGID JOINTS AT THE DIRECTION CHANGE SHALL CONFORM TO INJECTION-MOLDED PIP FITTINGS "IPEX BLUE BRUTE" OR APPROVED EQUIVALENT CONFORMING TO CSA B137.
6. PROVIDE ADAPTER OR INCREASE BUSHING WHERE EXISTING PVC PIPE IS TO BE CONNECTED TO NEW 250 DIA. PVC PIPE WATERMAIN AS PER TERRABRITE MANUFACTURER AND SUPPLIER CONFORMING TO CSA B137.
7. PVC PIPE WATERMAIN SHALL BE INSULATED WITH RIGID POLYURETHANE FOAM WITH A MINIMUM THICKNESS OF 50mm. INSULATION SHALL HAVE THE FOLLOWING PROPERTIES:
 - a. DENSITY OF 35 TO 45 kg/m³ ACCORDING TO ASTM D1622.
 - b. MINIMUM CLOSED CELL CONTENT OF 90% ACCORDING TO ASTM D6226.
 - c. MAXIMUM WATER ABSORPTION OF 4.0% BY VOLUME ACCORDING TO ASTM D2842.
 - d. THERMAL CONDUCTIVITY OF 0.020 TO 0.025 W/m°C. ACCORDING TO ASTM C518.
 - e. TEMPERATURE RANGE OF CRYOGENIC TO 93.3 °C.
 - f. INSULATION SHALL BE MAINTAIN OVER WATERMAIN RESTRAINTS.
8. INSULATION SHALL BE PROTECTED WITH A LOCKED SEAM, SPIRAL WOUND ROUND METAL JACKET CONSISTING OF 22 ga GALVANIZED STEEL.
9. ALL STEEL FOR SUPPORTS SHALL CONFORM TO CSA G40.21-350W AND SHALL BE GALVANIZED ACCORDING TO CSA G164.
10. ALL BOLTS SHALL BE ACCORDING TO ASTM F3125, GRADE A325M, TYPE 1 GALVANIZED BOLTS.
11. SUPPORTS FOR WATERMAIN SHALL BE STANDARD ROLLER HANGERS (FIGURE 258 BY E. MYATT & CO. OR EQUIVALENT)
12. THREADED ROD SHALL BE STAINLESS STEEL TYPE 316.
13. ALL OTHER HARDWARE FOR SUPPORT SHALL BE AS SHOWN IN SECTIONS AND DETAILS AND SHALL BE GALVANIZED ACCORDING TO CSA G164.

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH CONTRACT DOCUMENT
SPECIAL PROVISION CALLED "WATERMAIN INSTALLATION IN OPEN CUT".

GENERAL NOTES

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METRIC NOTE:
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** DRAWINGS ARE NOT TO BE SCALED **

REVISIONS

[illegible]

NOTE TO CONTRACTOR

- * CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND DETAILS OF EXISTING STRUCTURE THAT ARE RELEVANT TO THE WORK SHOWN PRIOR TO FABRICATION OF STEEL.



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BELLEVILLE TEL: (613) 969-1111
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E-mail: info@jewelleng.ca

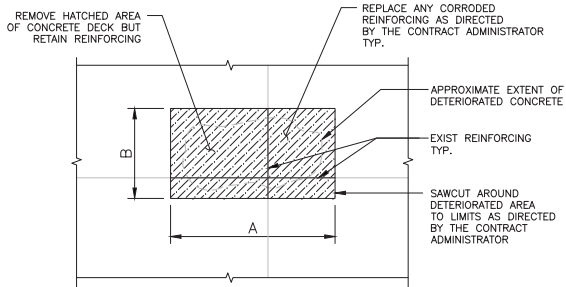
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COUNTY OF
LENNOX AND ADDINGTON
MILLHAVEN CREEK BRIDGE
REHABILITATION
COUNTY ROAD 2

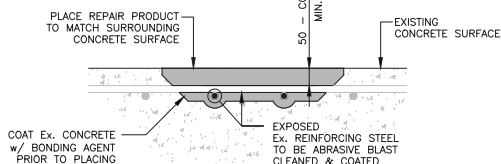
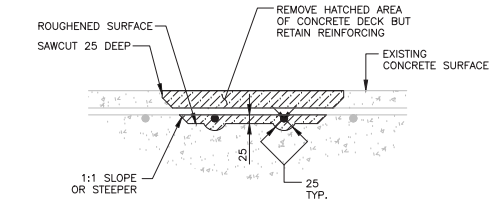
SUSPENDED WATERMAIN DETAILS - 2

Drawn by: N.K.	Jewell Project No: 2509922.1	
Designed by: A.S.	Date: JANUARY 2026	
Checked by: C.B.	Scale - Hor: AS NOTED Vert: AS NOTED	
Approved by: K.F.B.	Contract No: 2026-01	Drawing No: S9

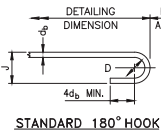
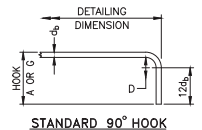


PLAN SHOWING AREA OF PARTIAL DEPTH REMOVAL TYPE 'A' REMOVAL

NOTES: DIMENSIONS A AND B TO BE DELINEATED IN THE FIELD BY THE CONTRACT ADMINISTRATOR



TYPICAL PARTIAL HORIZONTAL REPAIR DETAIL



MINIMUM BENDING PIN DIAMETER, D, mm

BAR SIZE	STEEL GRADE	
	400R ⁽²⁾	400W
10M	70	60
15M	100	90
20M	120	100
25M	150	150
30M	250	200
35M	300	250
45M	450 ⁽¹⁾	400
55M	600 ⁽¹⁾	550

- (1) Special fabrication is required for bends exceeding 90° for bars of these sizes and grade.
- (2) For stainless steel, with $F_y = 500$, use the same D as for 400R.

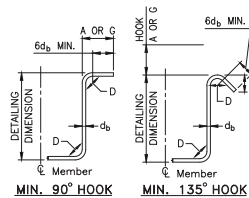
STANDARD HOOK DIMENSIONS

BAR SIZE	90° HOOKS		180° HOOKS	
	A OR G (mm)	A OR G (mm)	A OR G (mm)	J (mm)
	400R	400W	400R	400W
10M	180	180	140	130
15M	260	250	180	170
20M	310	300	220	200
25M	400	400	280	280
30M	510	490	400	350
35M	610	590	480	430
45M	790	770	680	630
55M	1030	1010	900	850

NOTE: All Hook Dimensions are according to the CHBDC-2019.

MINIMUM STIRRUP AND TIE HOOK DIMENSIONS

BAR SIZE	BAR DIAM. d_b (mm)	PIN DIAM. D (mm)	90°		135°	
			A OR G (mm)	A OR G (mm)	H (approx.) (mm)	
10M	11.3	45	100	100	70	
15M	16.0	65	140	140	100	
20M	19.5	80	180	175	115	
25M	25.2	100	230			

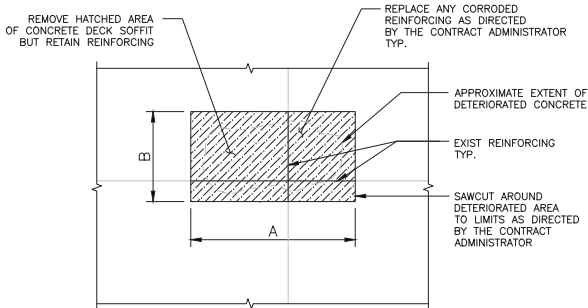


HOOK DIMENSIONS FOR REINFORCING STEEL BARS

Ontario Ministry of Transportation

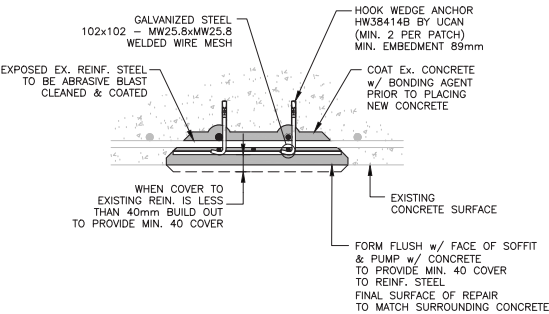
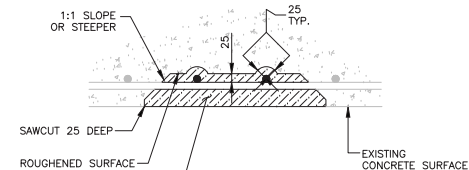
SS112-1

Date: October 2022 Rev: -



PLAN OF SHOWING AREA OF PARTIAL DEPTH REMOVAL TYPE 'B' REMOVAL

NOTES: DIMENSIONS A AND B TO BE DELINEATED IN THE FIELD BY THE CONTRACT ADMINISTRATOR



TYPICAL UNDERSIDE REPAIR DETAIL

NOTES TO CONTRACTOR:

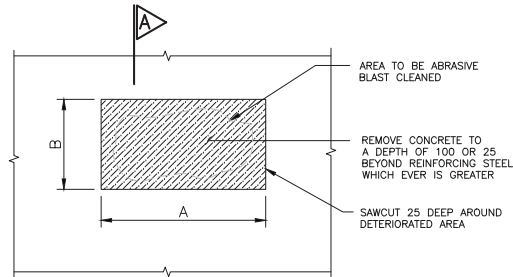
- TYPICAL LOCATIONS AND AREAS OF REPAIR ARE SHOWN FOR INFORMATION ONLY. THE ACTUAL LOCATIONS AND EXTENT OF PARTIAL DEPTH CONCRETE REMOVALS AND REPAIRS WILL BE DETERMINED ON SITE BY THE CONTRACT ADMINISTRATOR.
- REINFORCING IN CONCRETE REMOVAL AREAS WITH MORE THAN 10% SECTION LOSS IN ANY LOCAL AREA TO BE REPLACED OR LAPPED WITH NEW REINFORCING OF SIMILAR DIAMETER.
- REPAIRS TO BE COMPLETED USING FORM AND POUR METHOD EXCEPT THAT REPAIR AREAS WITH THE GREATER DIMENSION LESS THAN 300mm MAY BE REPAIRED USING PROPRIETARY PRODUCTS

CONCRETE REPAIR NOTES

- SAWCUT PERIMETER.
- CHIP AND REMOVE ALL LOOSE AND UNSOUND CONCRETE.
- REMOVE CONCRETE AROUND REINFORCING STEEL AS REQUIRED.
- RE-TIE EXPOSED REINFORCING STEEL AS REQUIRED.
- REPLACE BADLY CORRODED OR DAMAGED REINFORCING STEEL AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
- PLACE ANCHOR INSERTS.
- PLACE WELDED GALVANIZED STEEL WIRE FABRIC OF 102x102 (MW25.7xMW25.7) CSA SPEC. G30.5.
- PRE-WET 24 HOURS PRIOR TO PLACING CONCRETE OR REPAIR MORTAR.
- PLACE CONCRETE OR REPAIR MORTAR.
- FINISH AND CURE.
- REPAIR MORTAR MAY ONLY BE USED WHEN DIMENSION 'A' AND 'B' ARE BOTH LESS THAN 300mm.
- ALL REPAIRS ARE TO EITHER BE FORMED AND POURED OR FORMED AND PUMPED. TROWELLING OF REPAIR MORTAR IS STRICTLY PROHIBITED.

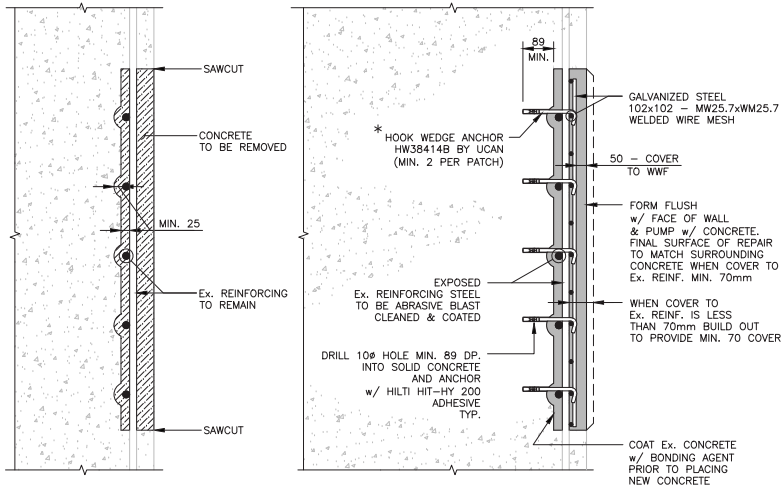
NOTE:

* - WEDGE ANCHOR MAY BE SUBSTITUTED WITH S10M PINS IN 11mm ϕ HOLES DRILLED 100 DEEP ANCHORED w/ HILTI HIT HY200 ADHESIVE (VERTICAL REPAIR SURFACES ONLY)

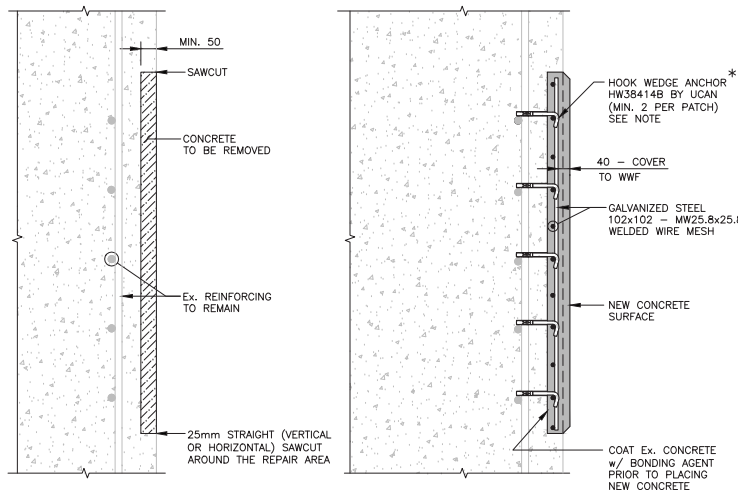


ABUTMENT SHOWING AREA OF PARTIAL DEPTH REMOVAL TYPE 'C' REMOVAL

NOTE: DIMENSIONS A AND B TO BE DELINEATED IN THE FIELD BY THE CONTRACT ADMINISTRATOR



TYPICAL PARTIAL DEPTH VERTICAL REPAIR DETAIL (DEEP REPAIR GREATER THAN 25% OF REBAR PERIMETER IS EXPOSED)



TYPICAL PARTIAL DEPTH VERTICAL REPAIR DETAIL (SHALLOW REPAIR LESS THAN 25% OF REBAR PERIMETER IS EXPOSED)

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**** DRAWINGS ARE NOT TO BE SCALED ****

REVISIONS			
No.	Date	Description	By
1			

LEGEND:

	CONCRETE REMOVALS
	EX. CONCRETE AFTER REMOVALS
	NEW CONCRETE

JEWELL ENGINEERING

KINGSTON BELLEVILLE CANVILLE

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COUNTY OF LENNOX AND ADDINGTON

MILLHAVEN CREEK BRIDGE

REHABILITATION

COUNTY ROAD 2

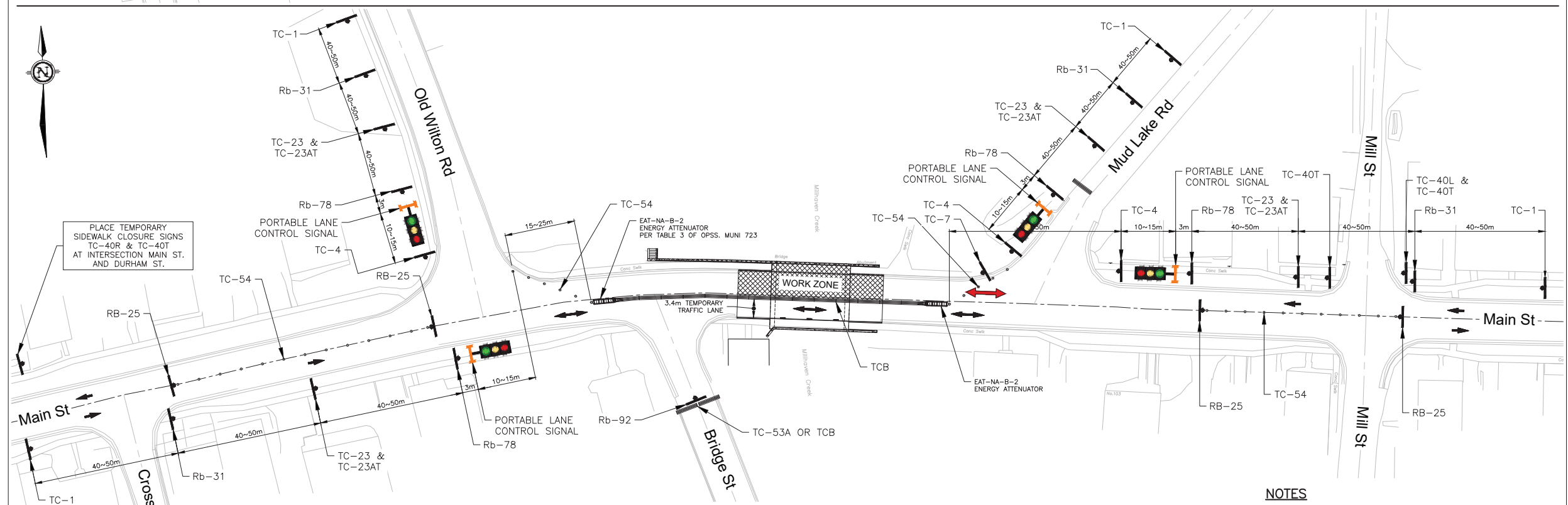
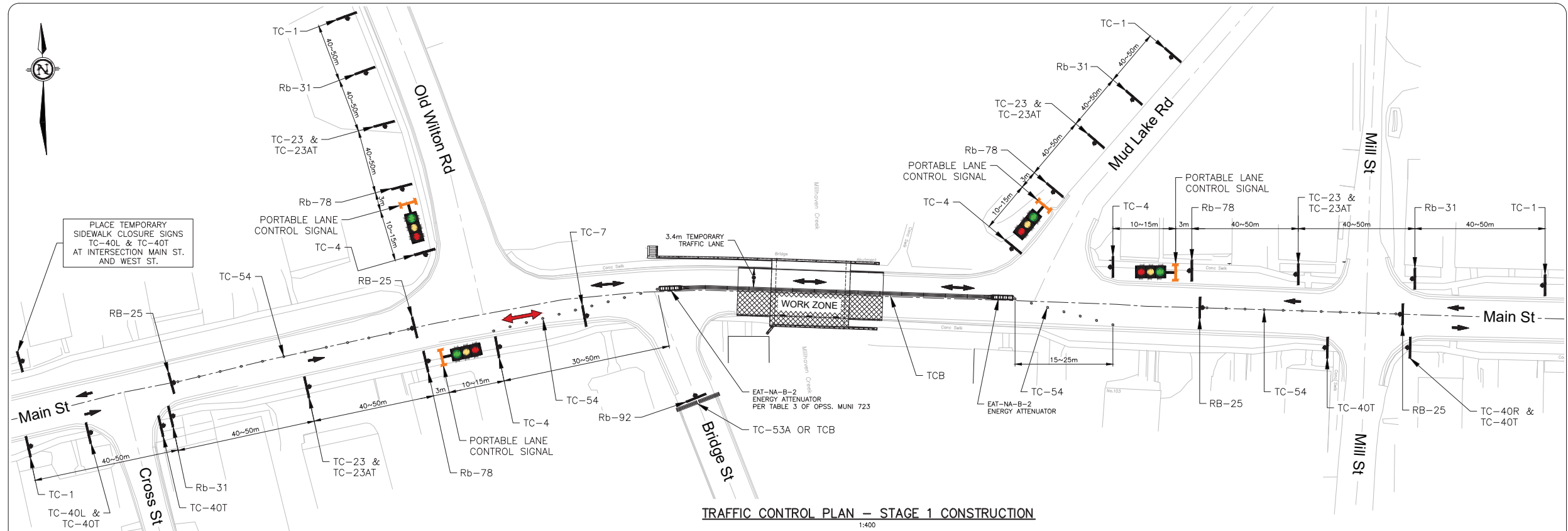
TYPICAL REHABILITATION DETAILS

Drawn by: N.K. Jewell Project No: 2509922.1

Designed by: A.S. Date: JANUARY 2026

Checked by: C.B. Scale - Hor: AS NOTED Vert: AS NOTED

Approved by: K.F.B. Contract No: 2026-01 Drawing No: S10



LEGEND:

TC-7	RB-78	RB-31	TC-4	TC-1	TC-40L	TC-40R	TC-40T	PORTABLE LANE CONTROL SIGNAL	TC-53A	TCB	TC-54	TRAFFIC	CONSTRUCTION ACCESS/EGRESS	ENERGY ATTENUATOR

NOTES:

- THIS DRAWING TO BE READ IN CONJUNCTION WITH STRUCTURAL STAGING DRAWING S3.
- ALL TRAFFIC CONTROL OPERATIONS SHALL BE CARRIED OUT TO AT LEAST MINIMUM STANDARDS AS SET FORTH IN BOOK 7 (ONTARIO TRAFFIC MANUAL).
- LOCATION, OFFSET, HEIGHT, ETC. OF ALL SIGNAGE SHALL BE IN ACCORDANCE WITH BOOK 7.
- ALL SIGNAGE AND TEMPORARY CONCRETE BARRIERS/BARRICADES WILL BE REQUIRED FOR THE ENTIRE DURATION OF CONSTRUCTION.
- THE FINAL LOCATION AND OVERALL NUMBER OF SIGNS MAY BE ADJUSTED BASED ON FIELD REQUIREMENTS. THE SIGNAGE LAYOUT AS SHOWN ON THE DRAWING SHALL BE USED FOR BIDDING PURPOSES.
- THE CONTRACTOR SHALL INSPECT ALL TRAFFIC CONTROL AND DETOUR SCHEMES AND ENSURE PROPER INSTALLATION ARE MAINTAINED FOR THE DURATION OF THE CONTRACT. INSPECTIONS SHALL BE PERFORMED PER BOOK 7 BUT NO LESS THAN ONCE PER DAY. THE CONTRACTOR SHALL MAINTAIN A DAILY LOG OF INSPECTIONS AND MAKE THE LOG AVAILABLE TO THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH DAILY RELOCATION OF TEMPORARY BARRIERS OR OTHER TRAFFIC APPURTENANCES TO ALLOW CONSTRUCTION ACCESS AS REQUIRED.

GENERAL NOTES:

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REVISIONS			
No.	Date	Description	By
1			

NOTE:

TRAFFIC CONTROL LAYOUT SHOWN IN ACCORDANCE WITH FIGURE TS-16 OF 2022 OTM BOOK 7.

JEWELL ENGINEERING

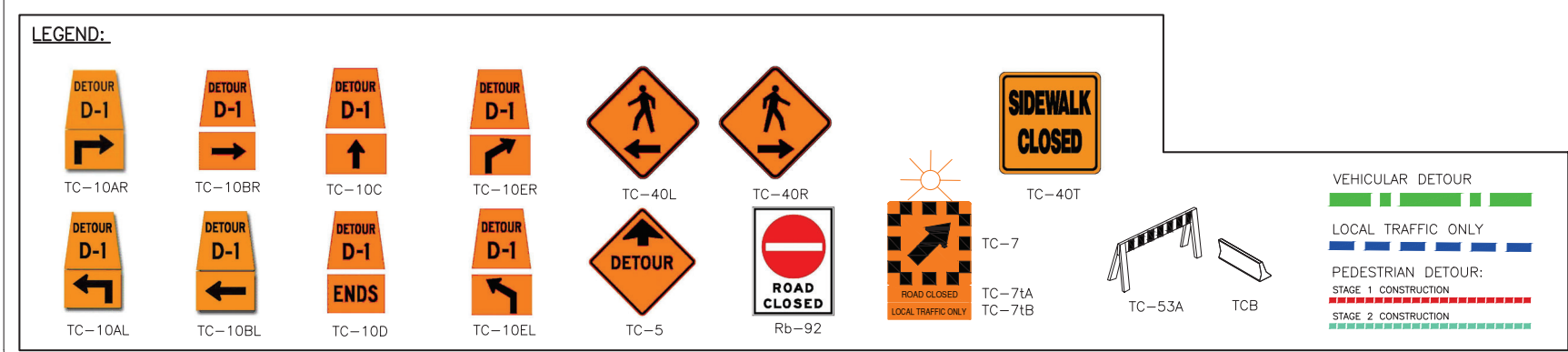
KINGSTON: TEL: (613) 389-7280 FAX: (613) 389-2754 E-mail: kingston@jewelling.ca
BELLEVILLE: TEL: (613) 969-1111 FAX: (613) 969-8888 E-mail: info@jewelling.ca
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**COUNTY OF LENNOX AND ADDINGTON
MILLHAVEN CREEK BRIDGE
REHABILITATION
COUNTY ROAD 2**

**TRAFFIC CONTROL PLAN
STAGING**

Drawn by: N.K. Jewell Project No: 2509922.1
Designed by: A.S. Date: JANUARY 2026
Checked by: C.B. Scale - Hor: AS NOTED Vert: AS NOTED
Approved by: K.F.B. Contract No: 2026-01 Drawing No: S11



- GENERAL NOTES:**
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NOTE:

TRAFFIC CONTROL LAYOUT SHOWN IN ACCORDANCE WITH
FIGURE TS-21 OF 2022 OTM BOOK 7.

PEDESTRIAN DETOUR SHOWN IN ACCORDANCE WITH
FIGURE TI-17 OF 2022 OTM BOOK 7.

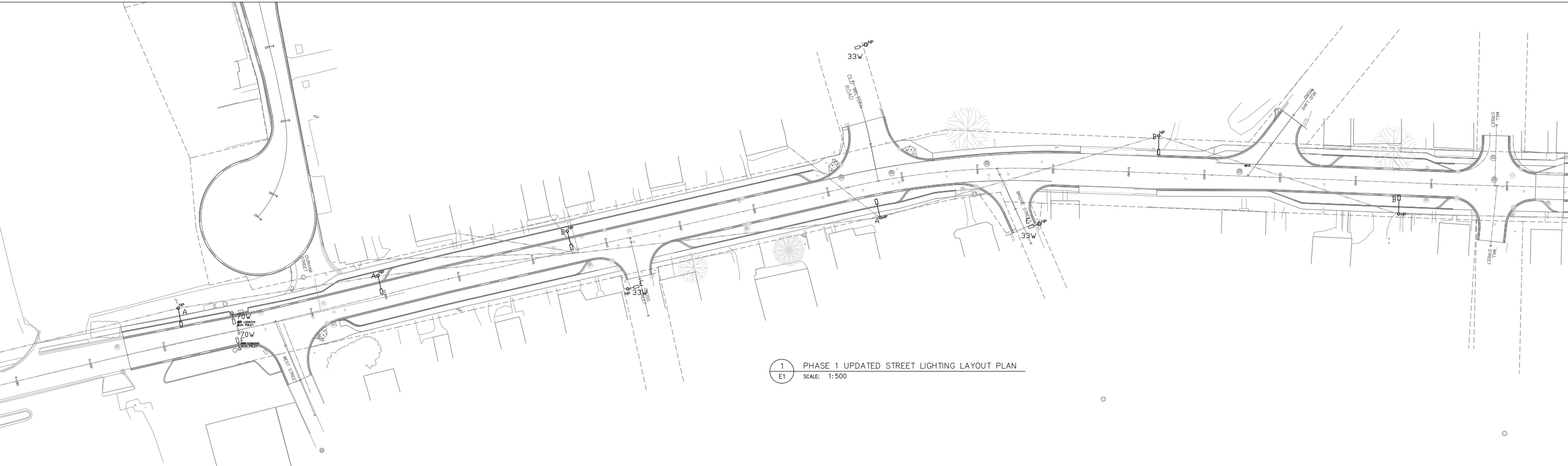


<u>KINGSTON</u>	<u>BELLEVILLE</u>	<u>OKAWVILLE</u>
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FAX: (613) 389-2754	FAX: (613) 968-8088	
E-mail: kingston@jewelling.ca	E-mail: info@jewelling.ca	E-mail: okaville@jewelling.ca
TOLL FREE: 1-800-966-4338 www.jewelling.ca		

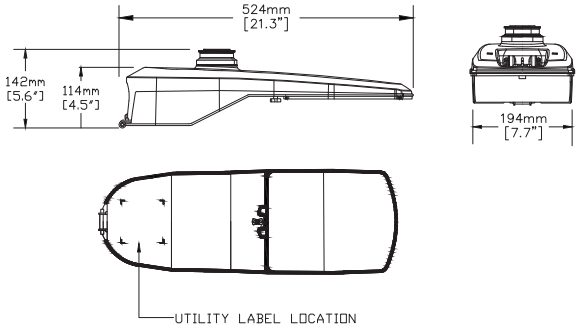
COUNTY OF
LENNOX AND ADDINGTON
MILLHAVEN CREEK BRIDGE
REHABILITATION
COUNTY ROAD 2

TRAFFIC CONTROL PLAN
DETOUR ROUTE

Drawn by:	Jewell Project No:	
N.K.	2509922.1	
Designed by:	Date:	
A.S.	JANUARY 2026	
Checked by:	Scale - Hor:	AS NOTED
C.B.	Vert:	AS NOTED
Approved by:	Contract No:	Drawing No:
K.F.B.	2026-01	S12



1 PHASE 1 UPDATED STREET LIGHTING LAYOUT PLAN
SCALE: 1:500



LUMINAIRE TYPE 'A'
LED FULL CUT-OFF LUMINAIRE, 48W, 6875 LUMENS, FLAT GLASS LENS, TYPE II MID DISTRIBUTION, C/W BACKLIGHT SHIELD, GREY FINISH, C/W 7-PIN NEMA PHOTOCELL RECEPTACLE AND PHOTOCELL (ENSURE PHOTOCELL IS HIGH OUTPUT TYPE, SUITABLE FOR LED PRODUCTS), 120VAC, CSA LISTED.
CREE MODEL: GWYS-A-8L-30K7-2M-UL-GY-Q8

LUMINAIRE TYPE 'B'
LED FULL CUT-OFF LUMINAIRE, 63W, 9325 LUMENS, FLAT GLASS LENS, TYPE II MID DISTRIBUTION, GREY FINISH, C/W 7-PIN NEMA PHOTOCELL RECEPTACLE AND PHOTOCELL (ENSURE PHOTOCELL IS HIGH OUTPUT TYPE, SUITABLE FOR LED PRODUCTS), 120VAC, CSA LISTED.
CREE MODEL: GWYM-A-10L-30K7-2M-UL-GY-Q9

NOTE: NEW LUMINAIRES TO BE MOUNTED ON EXISTING MOUNTING ARM AND EXISTING HYDRO POLE

2 LIGHT ASSEMBLY TYPE 'C1': ARM & LUMINAIRE
SCALE: N.T.S.

LEGEND	
	EXISTING COBRAHEAD FIXTURE, SIZE AS INDICATED

-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
0	25/12/18	ISSUED FOR TENDER	PGB	-
Rev.	Date	Description	By	App.

**BERTHELOT
ENGINEERING LTD**
2193 Lynhaven Rd.,
Peterborough, ON.
K9K 1W8
Email: pberthelot@bertheloteng.com

Tel: (705) 775-1517

DWN.
T. ST. JEAN

CHK.
P. BERTHELOT

DSN.
PGB/TMS

SCALE:
AS NOTED

PROJECT
**COUNTY ROAD 2
RECONSTRUCTION**
County of Lennox and Addington

TITLE
**PHASE 1 UPDATED STREET
LIGHTING LAYOUT PLAN**

FILE No.
766

DWG. No.
E1