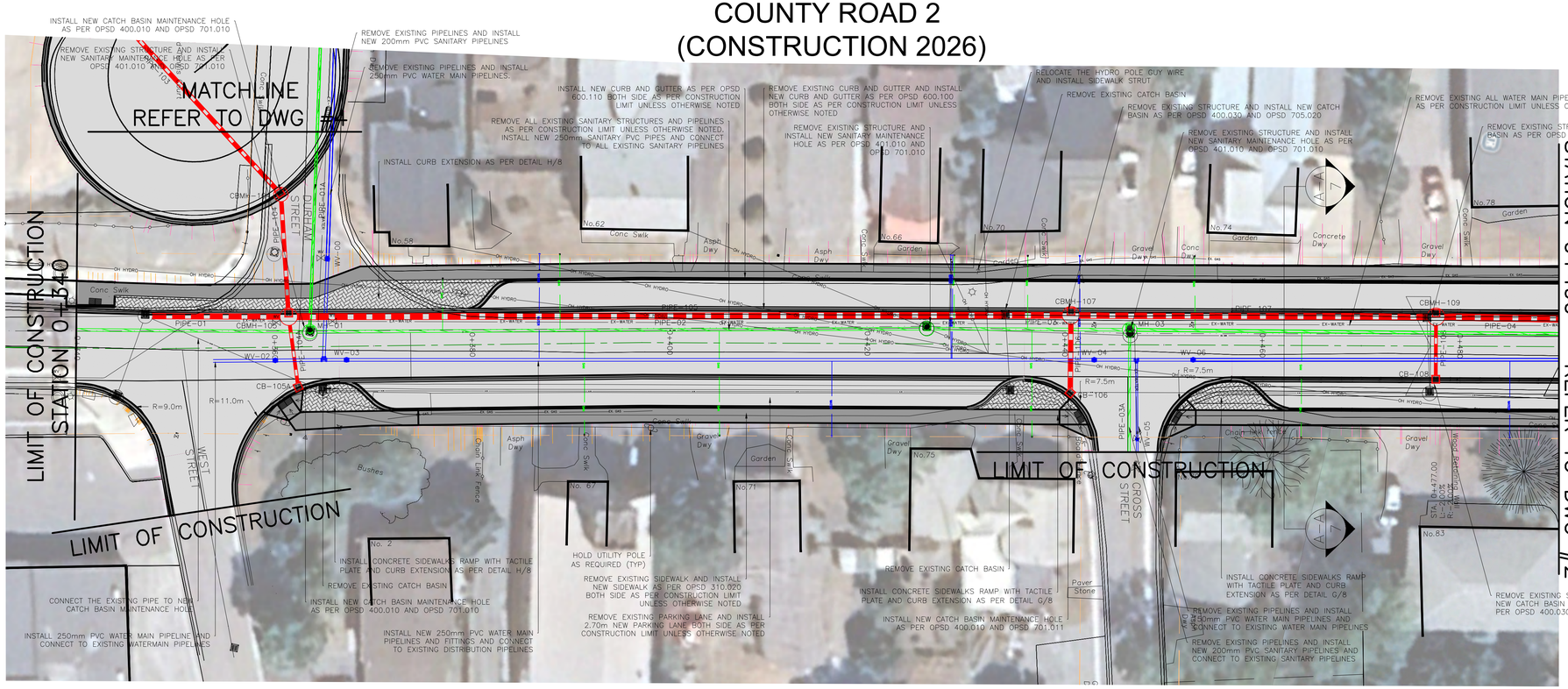
# COUNTY ROAD 2
# (CONSTRUCTION 2026)




METRIC NOTE:

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

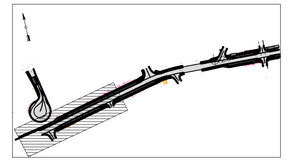
** DRAWINGS ARE NOT TO BE SCALED **

REVISIONS

| No. | Date | Description | By |
|---|---|---|---|
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LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | UTILITY POLE | |
| | SIGN | |
| | STORM SEWER | |
| | CATCH BASIN | |
| | DITCH INLET | |
| | CATCH BASIN MAINTENANCE HOLE | |
| | SANITARY MANHOLE | |
| EX. SAN | SANITARY LINE | SAN |
| EX. WTR | WATER LINE | WATER |
| EX. GAS | NATURAL GAS LINE | |
| | SANITARY CLEAN-OUT | |
| | WATER VALVE | |
| | WATER SHUT-OFF | |
| OH HYDRO | 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 | |



PROPOSED STORM SEWER STRUCTURE TABLE

| STRUCTURE NAME: | OPSD | T/G | STATION | OFFSET | INVERTS |
|---|---|---|---|---|---|
| CBMH-104 | OPSD 400.010 AND OPSD 701.010 | 125.33 | 0+360.80 | 15.46 L | NW INV = 123.408<br>S INV = 123.408 |
| CB-105A | OPSD 400.010 AND OPSD 705.010 | 125.31 | 0+362.30 | 4.05 R | N INV = 123.456 |
| CB-108 | OPSD 400.030 AND OPSD 705.010 | 125.03 | 0+477.55 | 3.35 R | N INV = 122.994 |
| CBMH-109 | OPSD 400.030 AND OPSD 701.011 | 125.04 | 0+477.55 | 2.97 L | W INV = 122.629<br>S INV = 122.929<br>E INV = 122.629 |
| CB-106 | OPSD 400.010 AND OPSD 705.020 | 125.09 | 0+440.55 | 4.89 R | N INV = 123.256 |
| CBMH-107 | OPSD 400.030 AND OPSD 701.011 | 125.14 | 0+440.59 | 2.97 L | W INV = 122.841<br>S INV = 123.149<br>E INV = 122.841 |
| CBMH-105 | OPSD 400.010 AND OPSD 701.011 | 125.32 | 0+361.43 | 3.07 L | S INV = 123.420<br>N INV = 123.345<br>W INV = 123.195<br>E INV = 123.120 |

PROPOSED STORM SEWER PIPE TABLE

| NAME | DESCRIPTION | LENGTH | SLOPE | START STRUCTURE | START STATION | START OFFSET | START INVERT | END STRUCTURE | END STATION | END OFFSET | END INVERT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PIPE-104 | 375MM DUAL WALL HDPE PIPE | 12.4 m | 0.51% | CBMH-104 | 0+360.80 | 15.46 L | 123.408 | CBMH-105 | 0+361.43 | 3.07 L | 123.345 |
| PIPE-104A | 300MM DUAL WALL HDPE PIPE | 7.2 m | 0.50% | CB-105A | 0+362.30 | 4.05 R | 123.456 | CBMH-105 | 0+361.43 | 3.07 L | 123.420 |
| PIPE-105 | 600MM DUAL WALL HDPE PIPE | 79.2 m | 0.35% | CBMH-105 | 0+361.43 | 3.07 L | 123.120 | CBMH-107 | 0+440.59 | 2.97 L | 122.841 |
| PIPE-105A | 525MM DUAL WALL HDPE PIPE | 14.5 m | 0.93% | CB4 | 0+346.91 | 3.31 L | 123.330 | CBMH-105 | 0+361.43 | 3.07 L | 123.195 |
| PIPE-106 | 450MM DUAL WALL HDPE PIPE | 7.9 m | 1.36% | CB-106 | 0+440.55 | 4.89 R | 123.256 | CBMH-107 | 0+440.59 | 2.97 L | 123.149 |
| PIPE-107 | 600MM DUAL WALL HDPE PIPE | 37.0 m | 0.57% | CBMH-107 | 0+440.59 | 2.97 L | 122.841 | CBMH-109 | 0+477.55 | 2.97 L | 122.629 |
| PIPE-108 | 300MM DUAL WALL HDPE PIPE | 6.3 m | 1.03% | CB-108 | 0+477.55 | 3.35 R | 122.994 | CBMH-109 | 0+477.55 | 2.97 L | 122.929 |
| PIPE-109 | 600MM DUAL WALL HDPE PIPE | 44.7 m | 0.53% | CBMH-109 | 0+477.55 | 2.97 L | 122.629 | CBMH-111 | 0+521.97 | 3.07 L | 122.393 |

WATER VALVE TABLE

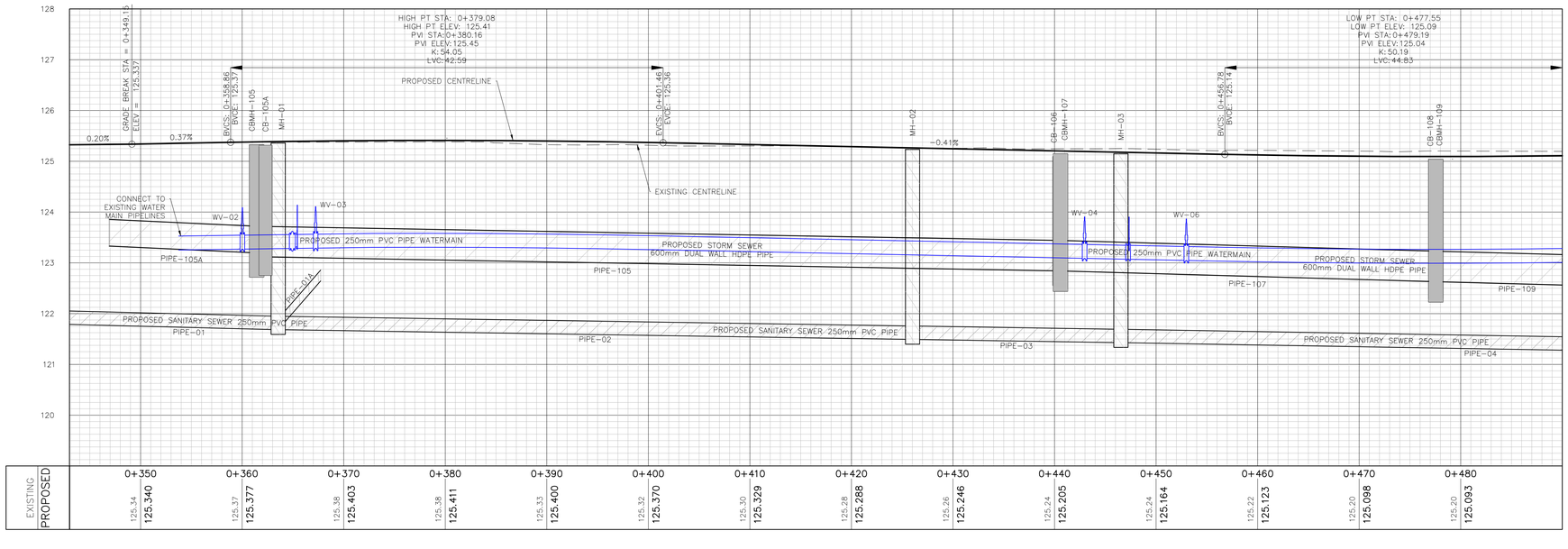
| VALVE NAME | SIZE | TYPE |
|---|---|---|
| WV-02 | 250 mm x 250 mm | Gate |
| WV-00 | 250 mm x 250 mm | Gate |
| WV-03 | 250 mm x 250 mm | Gate |
| WV-04 | 250 mm x 250 mm | Gate |
| WV-05 | 150 mm x 150 mm | Gate |
| WV-06 | 250 mm x 250 mm | Gate |

PROPOSED SANITARY STRUCTURE TABLE

| STRUCTURE NAME: | OPSD | T/G | STATION | OFFSET | INVERTS |
|---|---|---|---|---|---|
| MH-02 | OPSD 401.010 AND OPSD 701.010 | 125.23 | 0+426.02 | 1.53 L | W INV = 121.499<br>E INV = 121.499 |
| MH-03 | OPSD 401.010 AND OPSD 701.010 | 125.15 | 0+446.54 | 1.51 L | W INV = 121.435<br>S INV = 121.435<br>E INV = 121.435 |
| MH-01 | OPSD 401.010 AND OPSD 701.010 | 125.36 | 0+363.55 | 1.52 L | N INV = 121.691<br>E INV = 121.691<br>W INV = 121.691 |

PROPOSED SANITARY PIPE TABLE

| NAME | DESCRIPTION | LENGTH | SLOPE | START STRUCTURE | START STATION | START OFFSET | START INVERT | END STRUCTURE | END STATION | END OFFSET | END INVERT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PIPE-01 | 250MM PVC PIPE | 23.5 m | ~~0.340%~~ | MH-01 | 0+363.55 | 1.52 L | 121.691 | INLET | 0+339.96 | 1.85 L | |
| PIPE-01A | 200MM PVC PIPE | 84.4 m | | MH-01 | 0+363.55 | 1.52 L | 121.691 | OUTLET | 0+367.74 | 85.78 L | |
| PIPE-02 | 250MM PVC PIPE | 62.5 m | 0.31% | MH-01 | 0+363.55 | 1.52 L | 121.691 | MH-02 | 0+426.02 | 1.53 L | 121.499 |
| PIPE-03 | 250MM PVC PIPE | 20.5 m | 0.31% | MH-02 | 0+426.02 | 1.53 L | 121.499 | MH-03 | 0+446.54 | 1.51 L | 121.435 |
| PIPE-03A | 200MM PVC PIPE | 12.3 m | | MH-03 | 0+446.54 | 1.51 L | 121.435 | OUTLET | 0+446.53 | 10.80 R | |
| PIPE-04 | 250MM PVC PIPE | 71.0 m | 0.34% | MH-03 | 0+446.54 | 1.51 L | 121.435 | MH-04 | 0+517.45 | 1.50 L | 121.194 |




JEWELL ENGINEERING

COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

COUNTY ROAD 2
PLAN AND PROFILE
STATION 0+343 TO 0+490

Drawn by:

Project No:

Designed by:

Date:

Checked by:

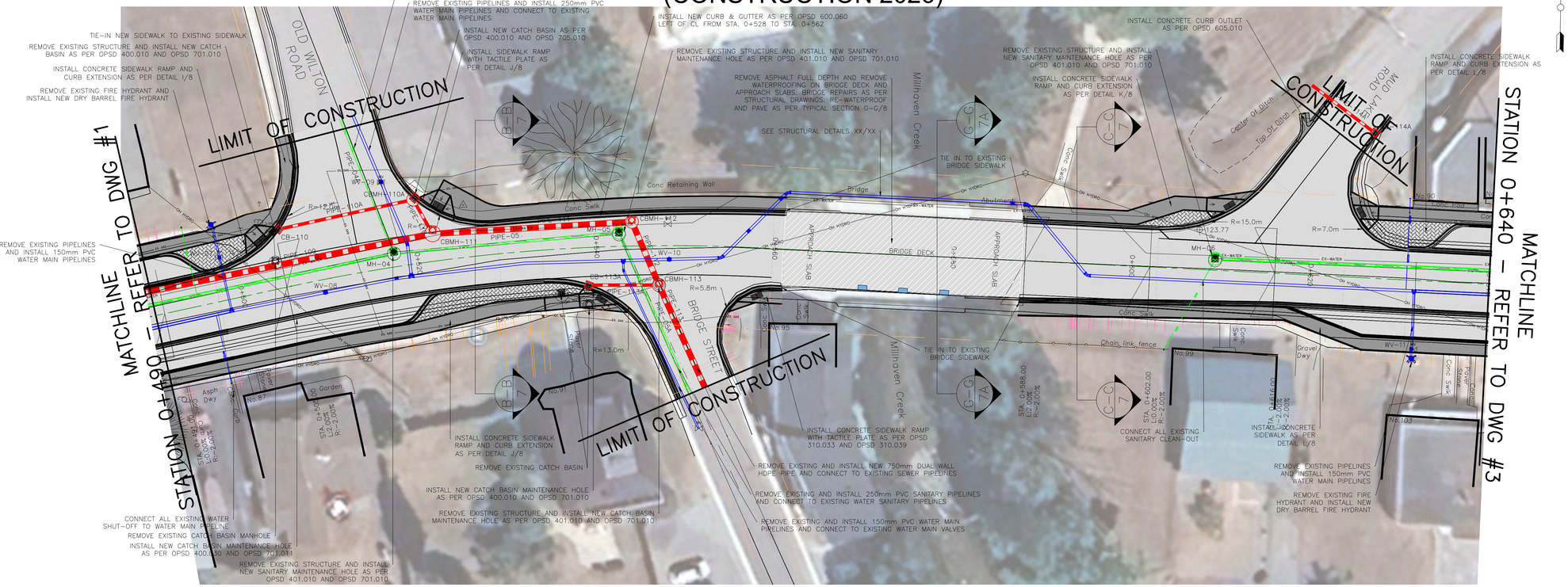
Scale – Hor:
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Approved by:

Contract No:

Drawing No:
1

# COUNTY ROAD 2
# (CONSTRUCTION 2026)




## PROPOSED STORM SEWER STRUCTURE TABLE

| STRUCTURE NAME: | OPSD | T/G | STATION | OFFSET | INVERTS |
|---|---|---|---|---|---|
| CBMH-110A | OPSD 400.010 AND OPSD 701.010 | 125.36 | 0+520.37 | 7.16 L | W INV = 122.715<br>SE INV = 122.715 |
| CB-113A | OPSD 400.010 AND OPSD 705.010 | 125.06 | 0+538.91 | 4.22 R | E INV = 122.664 |
| CB-110 | OPSD 400.010 AND OPSD 705.010 | 125.19 | 0+505.49 | 6.53 L | E INV = 122.792 |
| CBMH-113 | OPSD 401.010 AND OPSD 701.010 | 124.95 | 0+546.96 | 4.41 R | NW INV = 122.285<br>W INV = 122.585<br>SE INV = 122.285 |
| CBMH-111 | OPSD 401.010 AND OPSD 701.011 | 125.29 | 0+521.97 | 3.07 L | W INV = 122.393<br>NW INV = 122.693<br>E INV = 122.393 |
| CBMH-112 | OPSD 401.010 AND OPSD 701.010 | 125.15 | 0+544.00 | 2.72 L | W INV = 122.312<br>SE INV = 122.312 |

## PROPOSED STORM SEWER PIPE TABLE

| NAME | DESCRIPTION | LENGTH | SLOPE | START STRUCTURE | START STATION | START OFFSET | START INVERT | END STRUCTURE | END STATION | END OFFSET | END INVERT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PIPE-110 | 300MM DUAL WALL HDPE PIPE | 4.4 m | 0.50% | CBMH-110A | 0+520.37 | 7.16 L | 122.715 | CBMH-111 | 0+521.97 | 3.07 L | 122.693 |
| PIPE-110A | 300MM DUAL WALL HDPE PIPE | 15.4 m | 0.50% | CB-110 | 0+505.49 | 6.53 L | 122.792 | CBMH-110A | 0+520.37 | 7.16 L | 122.715 |
| PIPE-111 | 600MM DUAL WALL HDPE PIPE | 22.3 m | 0.36% | CBMH-111 | 0+521.97 | 3.07 L | 122.393 | CBMH-112 | 0+544.00 | 2.72 L | 122.312 |
| PIPE-112 | 600MM DUAL WALL HDPE PIPE | 7.7 m | 0.35% | CBMH-112 | 0+544.00 | 2.72 L | 122.312 | CBMH-113 | 0+546.96 | 4.41 R | 122.285 |
| PIPE-113 | 600MM DUAL WALL HDPE PIPE | 12.5 m | | CBMH-113 | 0+546.96 | 4.41 R | 122.285 | OUTLET | 0+552.44 | 15.82 R | |
| PIPE-113A | 300MM DUAL WALL HDPE PIPE | 7.9 m | 1.00% | CB-113A | 0+538.91 | 4.22 R | 122.664 | CBMH-113 | 0+546.96 | 4.41 R | 122.585 |

## WATER VALVE TABLE

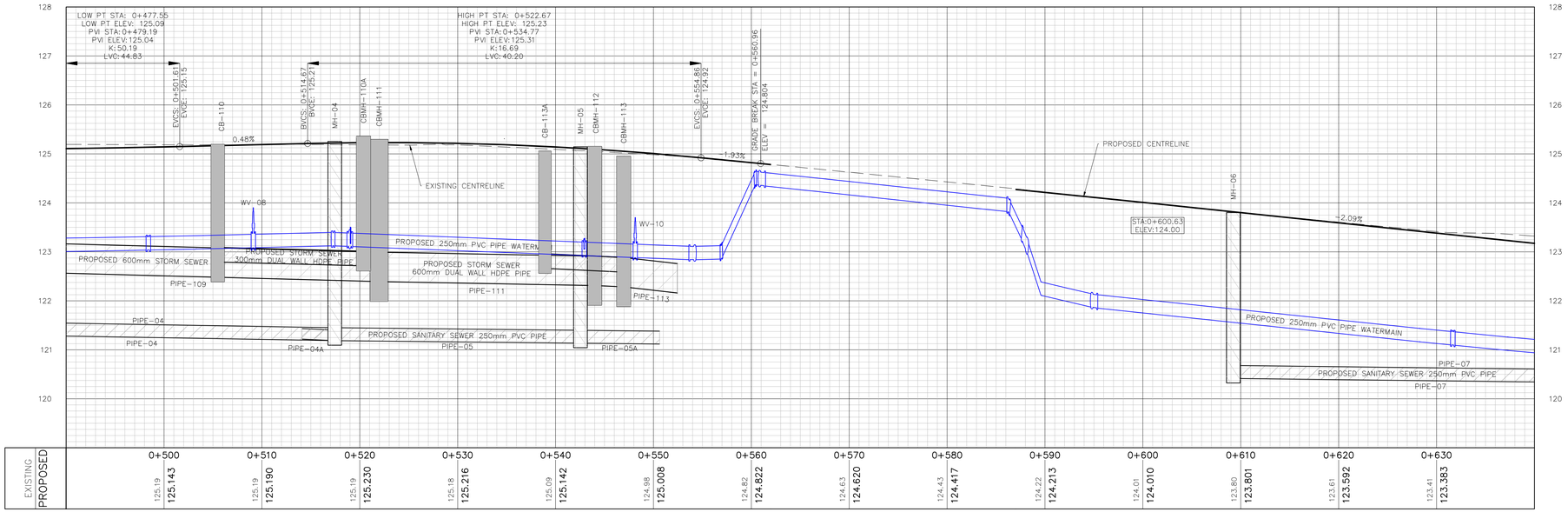
| VALVE NAME | SIZE | TYPE |
|---|---|---|
| WV-09 | 250 mm x 250 mm | Gate |
| WV-08 | 250 mm x 250 mm | Gate |
| WV-10 | 250 mm x 250 mm | Gate |
| WV-11 | 150 mm x 150 mm | Gate |
| WV-07 | 150 mm x 150 mm | Gate |

## PROPOSED SANITARY STRUCTURE TABLE

| STRUCTURE NAME: | OPSD | T/G | STATION | OFFSET | INVERTS |
|---|---|---|---|---|---|
| MH-04 | OPSD 401.010 AND OPSD 701.010 | 125.25 | 0+517.45 | 1.50 L | W INV = 121.194<br>E INV = 121.194<br>N INV = 121.194 |
| MH-05 | OPSD 401.010 AND OPSD 701.010 | 125.14 | 0+542.54 | 1.54 L | W INV = 121.142<br>SE INV = 121.142 |
| MH-06 | OPSD 401.010 AND OPSD 701.010 | 123.80 | 0+609.24 | 1.31 L | E INV = 120.423 |

## PROPOSED SANITARY PIPE TABLE

| NAME | DESCRIPTION | LENGTH | SLOPE | START STRUCTURE | START STATION | START OFFSET | START INVERT | END STRUCTURE | END STATION | END OFFSET | END INVERT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PIPE-04A | 200MM PVC PIPE | 16.2 m | | MH-04 | 0+517.45 | 1.50 L | 121.194 | OUTLET | 0+514.11 | 17.32 L | |
| PIPE-05 | 250MM PVC PIPE | 25.3 m | 0.21% | MH-04 | 0+517.45 | 1.50 L | 121.194 | MH-05 | 0+542.54 | 1.54 L | 121.142 |
| PIPE-05A | 250MM PVC PIPE | 19.7 m | | MH-05 | 0+542.54 | 1.54 L | 121.142 | OUTLET | 0+550.62 | 16.60 R | |
| PIPE-07 | 250MM PVC PIPE | 67.3 m | 0.24% | MH-06 | 0+609.24 | 1.31 L | 120.423 | MH-07 | 0+676.59 | 1.73 L | 120.264 |




METRIC NOTE:

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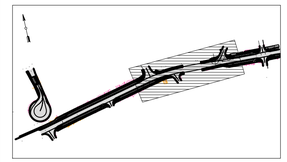
** DRAWINGS ARE NOT TO BE SCALED **

REVISIONS

| No. | Date | Description | By |
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LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | UTILITY POLE | |
| | SIGN | |
| | STORM SEWER | |
| | CATCH BASIN | |
| | DITCH INLET | |
| | CATCH BASIN MAINTENANCE HOLE | |
| | SANITARY MANHOLE | |
| EX. SAN | SANITARY LINE | SAN |
| EX. WATER | WATER LINE | WATER |
| EX. GAS | NATURAL GAS LINE | |
| | SANITARY CLEAN-OUT | |
| WV | WATER VALVE | |
| | WATER SHUT-OFF | |
| OH HYDRO | 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 | |



JEWELL ENGINEERING

COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

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

Drawn by:

Project No:

Designed by:

Date:

Checked by:

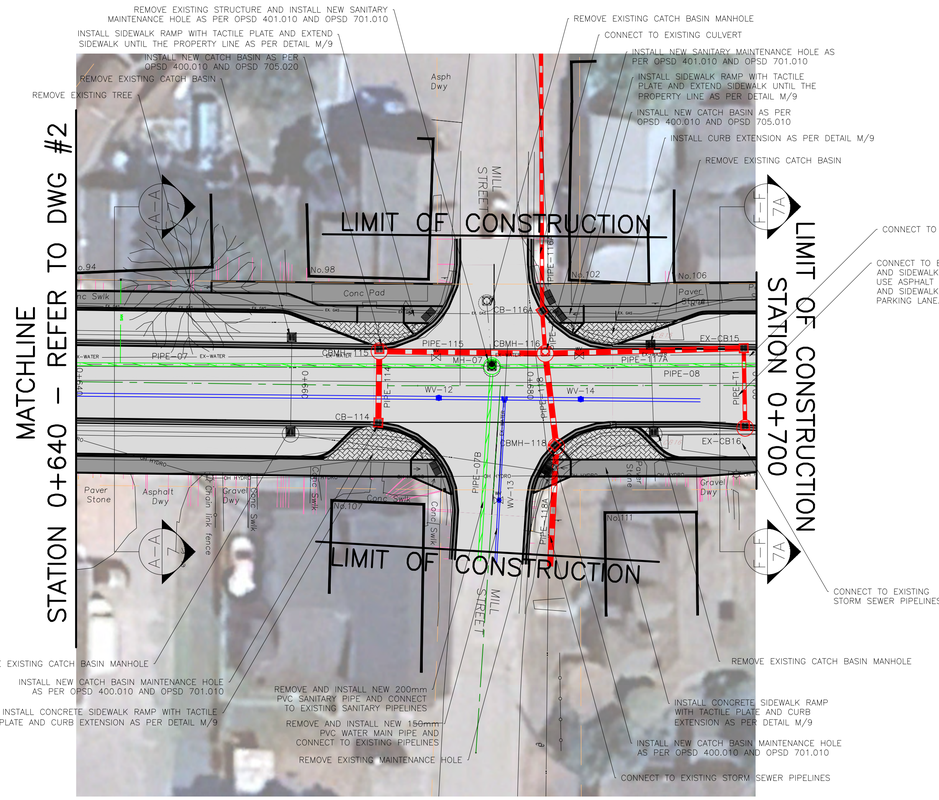
Scale – Hor:
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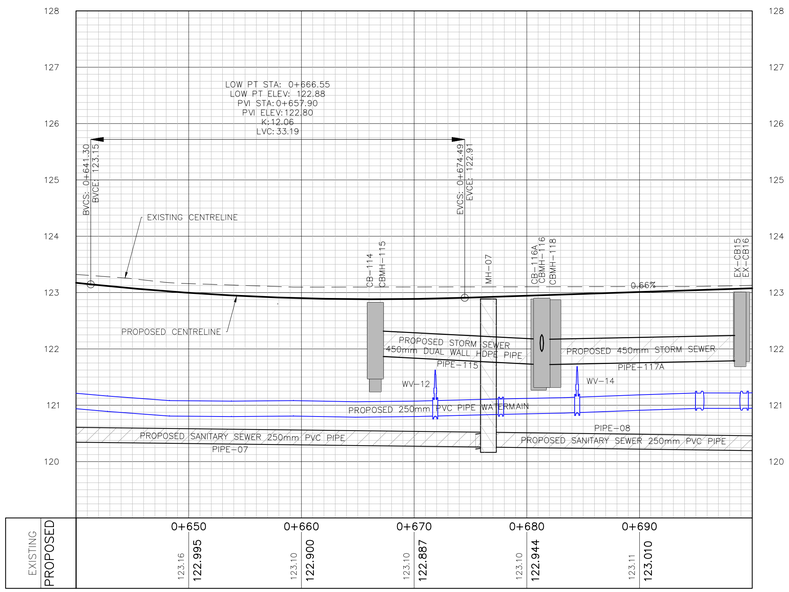
Approved by:

Contract No:

Drawing No:
2

# COUNTY ROAD 2
# (CONSTRUCTION 2026)




## PROPOSED STORM SEWER STRUCTURE TABLE

| STRUCTURE NAME: | OPSD | T/G | STATION | OFFSET | INVERTS |
|---|---|---|---|---|---|
| EX–CB15 | EXISTING CB15 (REUSED) | 123.00 | 0+698.94 | 3.30 L | W INV = 121.790<br>S INV = 121.860 |
| EX–CB16 | EXISTING CB16 (REUSED) | 123.00 | 0+699.06 | 3.78 R | N INV = 121.880 |
| CBMH–116 | OPSD 401.010 AND OPSD 701.011 | 122.90 | 0+681.33 | 2.84 L | N INV = 121.954<br>W INV = 121.720<br>S INV = 121.954<br>E INV = 121.720<br>E INV = 121.863 |
| CB–114 | OPSD 400.010 AND OPSD 705.020 | 122.82 | 0+666.55 | 3.27 R | N INV = 121.942 |
| CBMH–115 | OPSD 400.010 AND OPSD 701.010 | 122.82 | 0+666.56 | 3.06 L | S INV = 121.872<br>E INV = 121.872 |
| CBMH–118 | OPSD 400.010 AND OPSD 701.010 | 122.87 | 0+682.30 | 5.40 R | N INV = 121.870<br>S INV = 121.720 |
| CB–116A | OPSD 400.010 AND OPSD 705.010 | 122.88 | 0+681.05 | 6.62 L | S INV = 121.973<br>N INV = 121.973 |

## PROPOSED STORM SEWER PIPE TABLE

| NAME | DESCRIPTION | LENGTH | SLOPE | START STRUCTURE | START STATION | START OFFSET | START INVERT | END STRUCTURE | END STATION | END OFFSET | END INVERT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PIPE–114 | 450MM DUAL WALL HDPE PIPE | 6.3 m | 1.10% | CB–114 | 0+666.55 | 3.27 R | 121.942 | CBMH–115 | 0+666.56 | 3.06 L | 121.872 |
| PIPE–115 | 450MM DUAL WALL HDPE PIPE | 14.7 m | 1.03% | CBMH–115 | 0+666.56 | 3.06 L | 121.872 | CBMH–116 | 0+681.33 | 2.84 L | 121.720 |
| PIPE–116 | 300MM DUAL WALL HDPE PIPE | 3.8 m | 0.50% | CB–116A | 0+681.05 | 6.62 L | 121.973 | CBMH–116 | 0+681.33 | 2.84 L | 121.954 |
| PIPE–116A | 300MM DUAL WALL HDPE PIPE | 27.2 m | | ~~CB–116A~~ | 0+681.05 | 6.62 L | | | 0+680.96 | 33.79 L | ~~121.880~~ |
| PIPE–117A | 450MM DUAL WALL HDPE PIPE | 17.6 m | | CBMH–116 | 0+681.33 | 2.84 L | 121.720 | EX–CB15 | 0+698.94 | 3.30 L | |
| PIPE–118 | 450MM DUAL WALL HDPE PIPE | 8.3 m | 1.01% | CBMH–116 | 0+681.33 | 2.84 L | 121.954 | CBMH–118 | 0+682.30 | 5.40 R | 121.870 |
| PIPE–118A | 450MM DUAL WALL HDPE PIPE | 10.6 m | | CBMH–118 | 0+682.30 | 5.40 R | 121.720 | OUTLET | 0+681.74 | 16.03 R | |
| PIPE–T1 | 300MM DUAL WALL HDPE PIPE | 7.1 m | 0.28% | EX–CB16 | 0+699.06 | 3.78 R | 121.880 | EX–CB15 | 0+698.94 | 3.30 L | 121.860 |

## PROPOSED SANITARY STRUCTURE TABLE

| STRUCTURE NAME: | OPSD | T/G | STATION | OFFSET | INVERTS |
|---|---|---|---|---|---|
| MH–07 | OPSD 401.010 AND OPSD 701.010 | 122.89 | 0+676.59 | 1.73 L | W INV = 120.264<br>E INV = 120.264<br>S INV = 120.264 |

## PROPOSED SANITARY PIPE TABLE

| NAME | DESCRIPTION | LENGTH | SLOPE | START STRUCTURE | START STATION | START OFFSET | START INVERT | END STRUCTURE | END STATION | END OFFSET | END INVERT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PIPE–07B | 250MM PVC PIPE | 17.3 m | ~~0.58%~~ | MH–07 | 0+676.59 | 1.73 L | 120.264 | OUTLET | 0+675.46 | 15.54 R | ~~120.000~~ |
| PIPE–08 | 250MM PVC PIPE | 94.0 m | | MH–07 | 0+676.59 | 1.73 L | 120.264 | OUTLET | ~~0+675.00~~ | ~~0.00 R~~ | |

## WATER VALVE TABLE

| VALVE NAME | SIZE | TYPE |
|---|---|---|
| WV–12 | 250 mm x 250 mm | Gate |
| WV–14 | 250 mm x 250 mm | Gate |
| WV–13 | 150 mm x 150 mm | Gate |

METRIC NOTE:

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

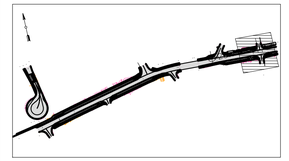
** DRAWINGS ARE NOT TO BE SCALED **

REVISIONS

| No. | Date | Description | By |
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LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | UTILITY POLE | |
| | SIGN | |
| | STORM SEWER | |
| | CATCH BASIN | |
| | DITCH INLET | |
| | CATCH BASIN MAINTENANCE HOLE | |
| | SANITARY MANHOLE | |
| EX SAN | SANITARY LINE | SAN |
| EX WTR | WATER LINE | WATER |
| EX. GAS | NATURAL GAS LINE | |
| | SANITARY CLEAN–OUT | |
| WV | WATER VALVE | |
| | WATER SHUT–OFF | |
| OH HYDRO | OVERHEAD POWER LINE | |
| | GUY WIRE | |
| | FIRE HYDRANT | |
| | TREE | |
| | BUSH | |
| | FENCE | |
| | BELL BOX | |
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| | LIGHT POST | |
| | PROPERTY LINES | |
| | TOP OF BANK | |
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| | TOE OF SLOPE | |
| | CENTER OF DITCH | |
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| | FILL | |



JEWELL ENGINEERING

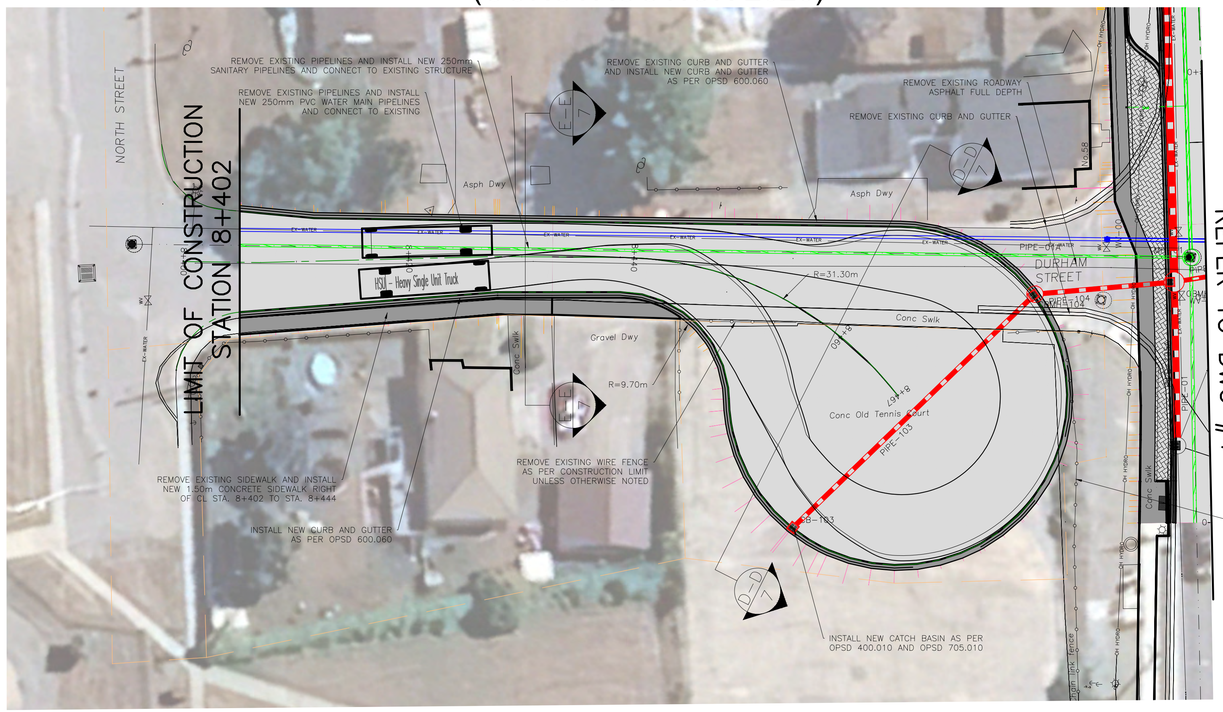
COUNTY OF
LENNOX AND ADDINGTON

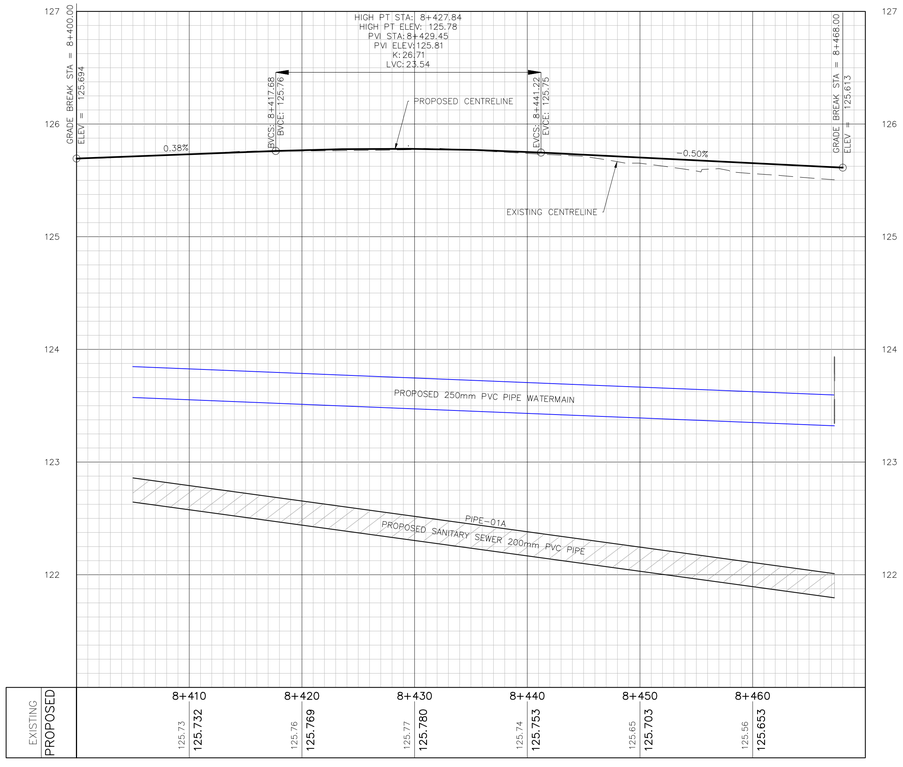
COUNTY ROAD 2

COUNTY ROAD 2
PLAN AND PROFILE
STATION 0+640 TO 0+700

Drawn by:
Project No:
Designed by:
Date:
Checked by:
Scale – Hor:
Vert:
Approved by:
Contract No:
Drawing No:
3

# COUNTY ROAD 2
# (CONSTRUCTION 2026)




| PROPOSED STORM SEWER STRUCTURE TABLE | | | | | |
|---|---|---|---|---|---|
| STRUCTURE NAME: | OPSD | T/G | STATION | OFFSET | INVERTS |
| CB-103 | OPSD 400.010 AND OPSD 705.010 | 125.34 | 0+340.00 | 37.55 L | SE INV = 123.557 |

| PROPOSED STORM SEWER PIPE TABLE | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NAME | DESCRIPTION | LENGTH | SLOPE | START STRUCTURE | START STATION | START OFFSET | START INVERT | END STRUCTURE | END STATION | END OFFSET | END INVERT |
| PIPE-103 | 375MM DUAL WALL HDPE PIPE | 29.8 m | 0.50% | CB-103 | 0+340.00 | 37.55 L | 123.557 | CBMH-104 | 0+360.80 | 15.46 L | 123.408 |

METRIC NOTE:

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

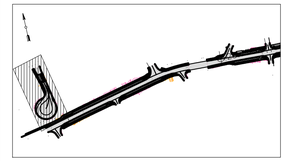
** DRAWINGS ARE NOT TO BE SCALED **

REVISIONS

| No. | Date | Description | By |
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LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | UTILITY POLE | |
| | SIGN | |
| | STORM SEWER | |
| | CATCH BASIN | |
| | DITCH INLET | |
| | CATCH BASIN MAINTENANCE HOLE | |
| | SANITARY MANHOLE | |
| EX SAN | SANITARY LINE | SAN |
| EX WTR | WATER LINE | WATER |
| EX GAS | NATURAL GAS LINE | |
| | SANITARY CLEAN-OUT | |
| WV | WATER VALVE | |
| | WATER SHUT-OFF | |
| OH HYDRO | 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 | |



JEWELL ENGINEERING

COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

COUNTY ROAD 2
PLAN AND PROFILE
STATION 8+400 TO 8+467

Drawn by:
Project No:

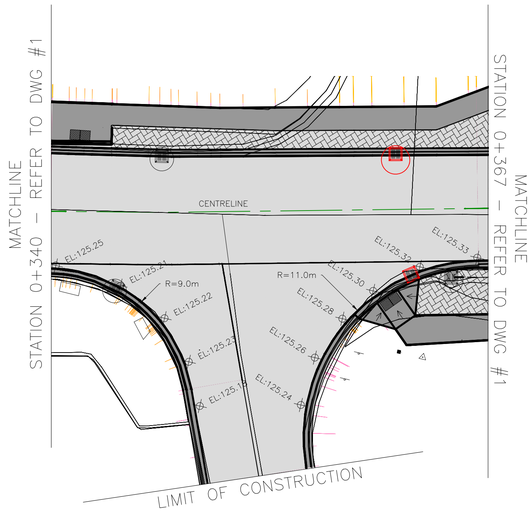
Designed by:
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Scale – Hor:
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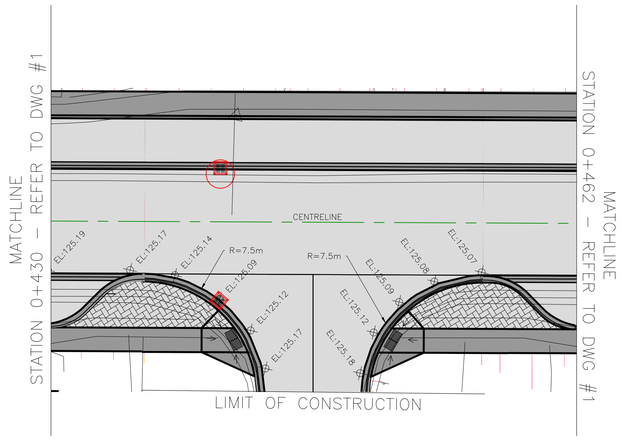
Approved by:
Contract No:
Drawing No: 4

# INTERSECTION GRADING

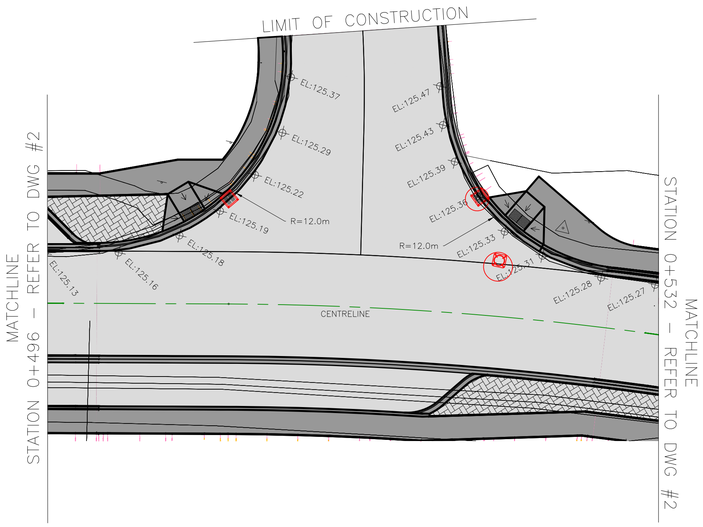
## A 5 CR2 WEST STREET CURB RETURN DETAIL



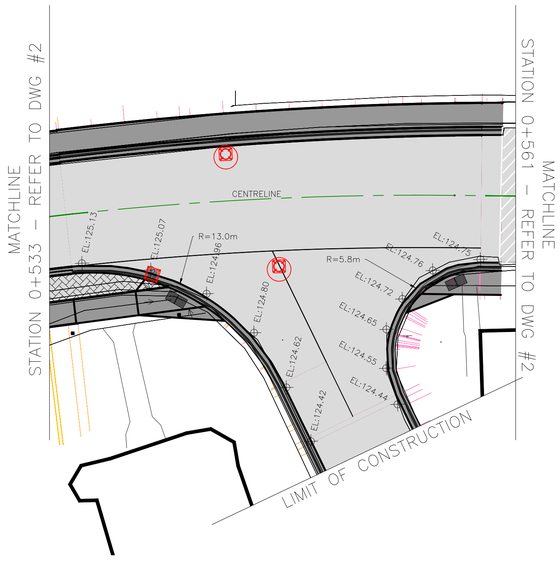

## B 5 CR2 CROSS STREET CURB RETURN DETAIL



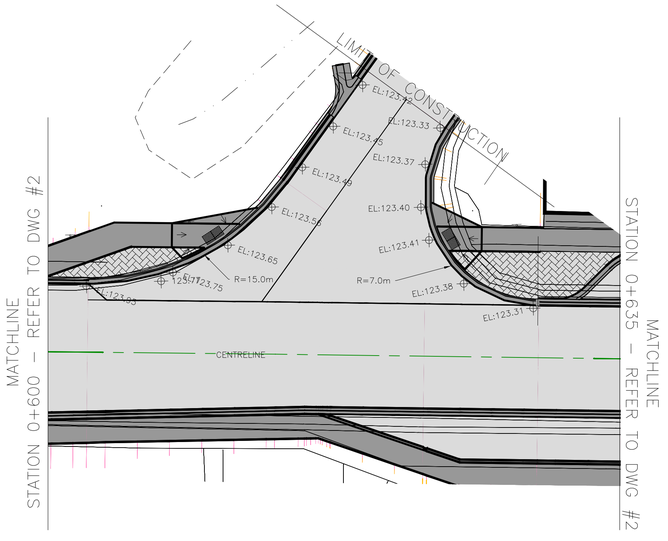

## C 5 CR2 OLD WILTON ROAD CURB RETURN DETAIL



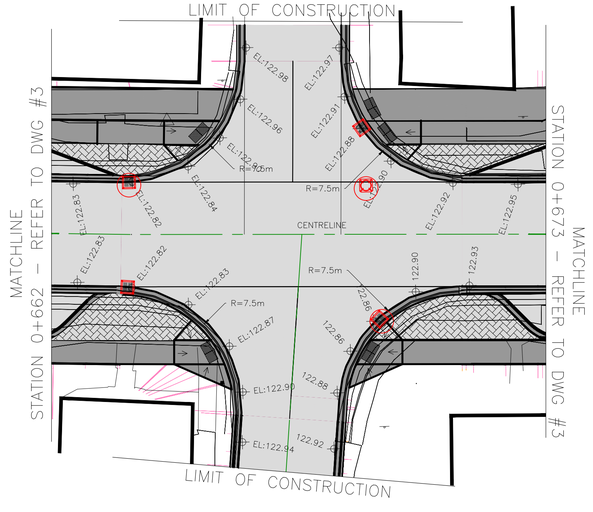

## D 5 CR2 BRIDGE STREET CURB RETURN DETAIL




## E 5 CR2 MUD LAKE ROAD CURB RETURN DETAIL




## F 5 CR2 MILL STREET CURB RETURN DETAIL




METRIC NOTE:

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

** DRAWINGS ARE NOT TO BE SCALED **

REVISIONS

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LEGEND

| EXISTING | | PROPOSED |
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| | UTILITY POLE | |
| | SIGN | |
| | STORM SEWER | |
| | CATCH BASIN | |
| | DITCH INLET | |
| | CATCH BASIN MAINTENANCE HOLE | |
| | SANITARY MANHOLE | |
| EX. SAN | SANITARY LINE | SAN |
| EX. WTR | WATER LINE | WATER |
| EX. GAS | NATURAL GAS LINE | |
| | SANITARY CLEAN-OUT | |
| | WATER VALVE | |
| | WATER SHUT-OFF | |
| OH HYDRO | 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 | |
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JEWELL ENGINEERING

COUNTY OF
LENNOX AND ADDINGTON

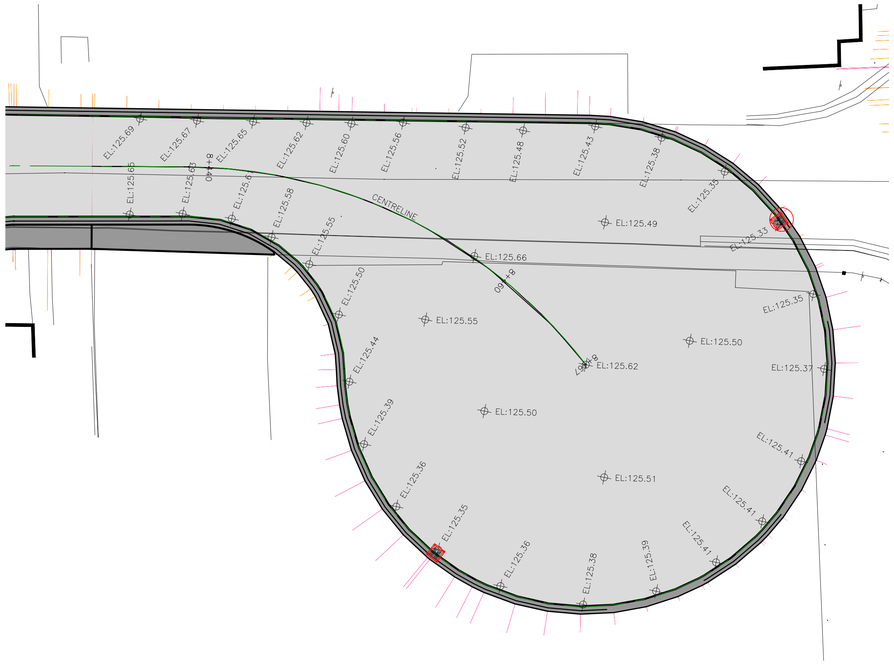
COUNTY ROAD 2

COUNTY ROAD 2
INTERSECTION GRADING

Drawn by:
Project No:
Designed by:
Date:
Checked by:
Scale – Hor:
Vert:
Approved by:
Contract No:
Drawing No: 5

# CUL-DE-SAC GRADING

A
6
CUL–DE–SAC GRADING
DURHAM STREET




METRIC NOTE:

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

** DRAWINGS ARE NOT TO BE SCALED **

REVISIONS

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LEGEND

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| | UTILITY POLE | |
| | SIGN | |
| | STORM SEWER | |
| | CATCH BASIN | |
| | DITCH INLET | |
| | CATCH BASIN MAINTENANCE HOLE | |
| | SANITARY MANHOLE | |
| EX. SAN | SANITARY LINE | SAN |
| EX. WTR | WATER LINE | WATER |
| EX. GAS | NATURAL GAS LINE | |
| | SANITARY CLEAN–OUT | |
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| | FENCE | |
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| | PROPERTY LINES | |
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| | TOP OF DITCH | |
| | TOE OF SLOPE | |
| | CENTER OF DITCH | |
| | CUT | |
| | FILL | |

JEWELL ENGINEERING

COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

COUNTY ROAD 2
CUL-DE-SAC GRADING

Drawn by:
Project No:

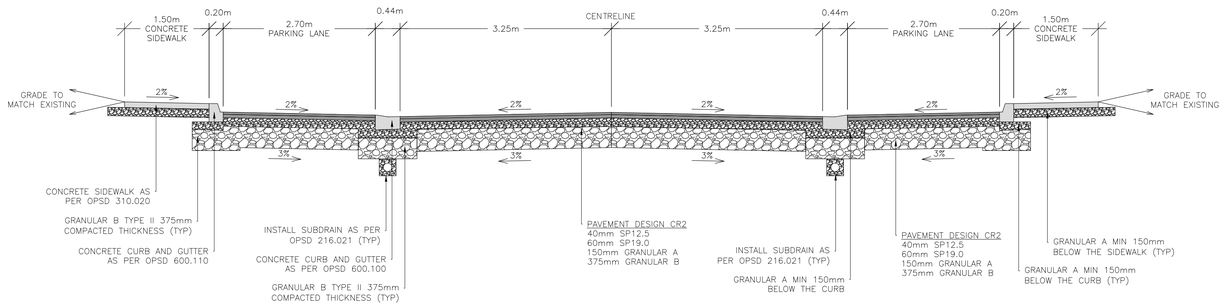
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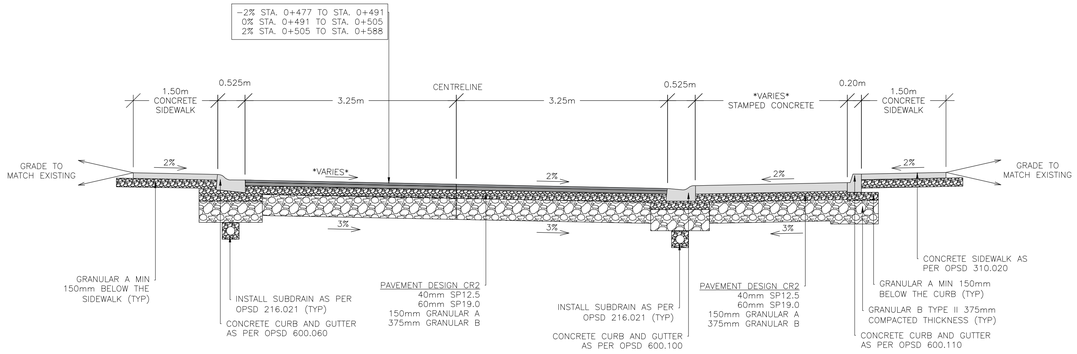
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6

# TYPICAL SECTION

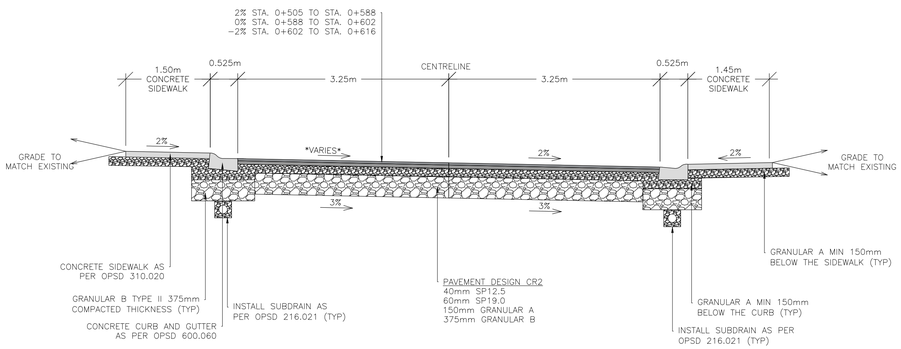
## A–A / 7 — COUNTY ROAD 2
STA. 0+340 TO STA. 0+520
STA. 0+616 TO STA. 0+690



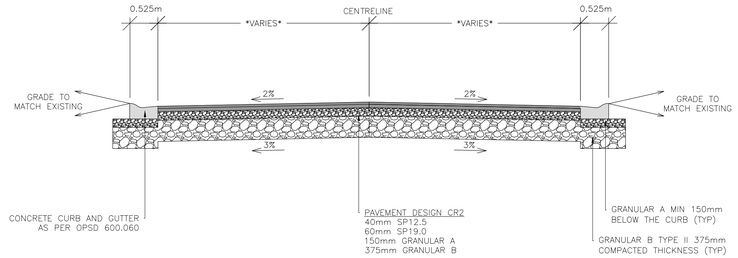

## B–B / 7 — COUNTY ROAD 2
STA. 0+520 TO STA. 0+545



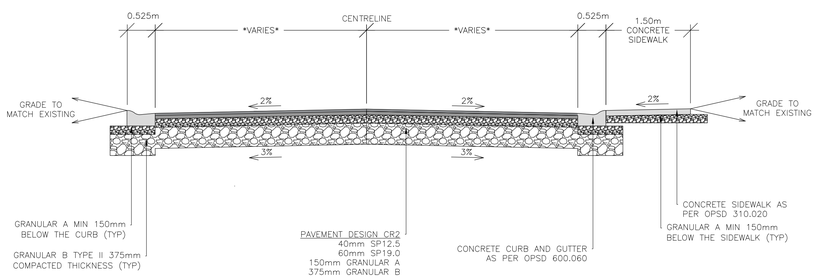

## C–C / 7 — COUNTY ROAD 2
STA. 0+545 TO STA. 0+567
STA. 0+587 TO STA. 0+616




## D–D / 7 — DURHAM STREET CUL-DE-SAC
STA. 8+402 TO STA. 8+444




## E–E / 7 — DURHAM STREET CUL-DE-SAC
STA. 8+444 TO STA. 8+467




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

REVISIONS

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LEGEND

| EXISTING | | PROPOSED |
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| | UTILITY POLE | |
| | SIGN | |
| | STORM SEWER | |
| | CATCH BASIN | |
| | DITCH INLET | |
| | CATCH BASIN MAINTENANCE HOLE | |
| | SANITARY MANHOLE | |
| EX. SAN | SANITARY LINE | SAN |
| EX. WTR | WATER LINE | WATER |
| EX. GAS | NATURAL GAS LINE | |
| | SANITARY CLEAN-OUT | |
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| | BELL BOX | |
| | IRON BAR | |
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JEWELL ENGINEERING

COUNTY OF
LENNOX AND ADDINGTON

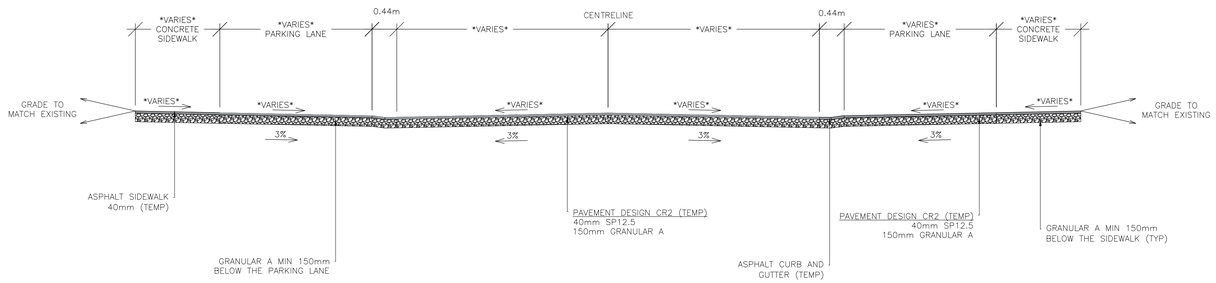
COUNTY ROAD 2

COUNTY ROAD 2
TYPICAL SECTIONS

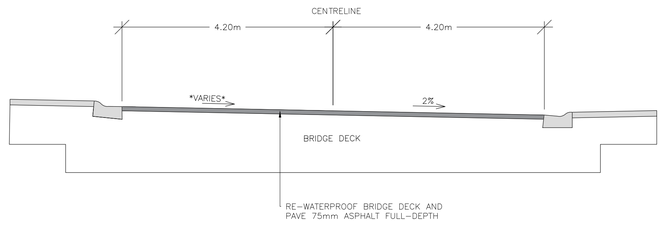
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Project No:
Designed by:
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Approved by:
Contract No:
Drawing No:
7

# TYPICAL SECTION

## F–F
## 7A
## COUNTY ROAD 2
STA. 0+695 TO STA. 0+700




## G–G
## 7A
## COUNTY ROAD 2 (BRIDGE)
STA. 0+567 TO STA. 0+587




METRIC NOTE:

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** DRAWINGS ARE NOT TO BE SCALED **

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LEGEND

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| | UTILITY POLE | |
| | SIGN | |
| | STORM SEWER | |
| | CATCH BASIN | |
| | DITCH INLET | |
| | CATCH BASIN MAINTENANCE HOLE | |
| | SANITARY MANHOLE | |
| EX SAN | SANITARY LINE | SAN |
| EX WTR | WATER LINE | WATER |
| EX. GAS | NATURAL GAS LINE | |
| | SANITARY CLEAN–OUT | |
| WV | WATER VALVE | |
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| OH HYDRO | OVERHEAD POWER LINE | |
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JEWELL ENGINEERING

COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

COUNTY ROAD 2
TYPICAL SECTIONS

Drawn by:
Project No:

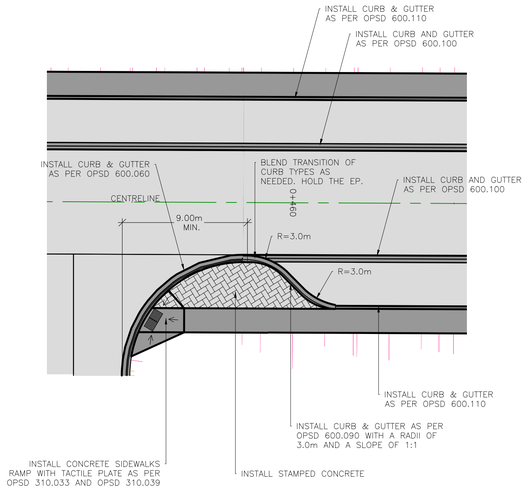
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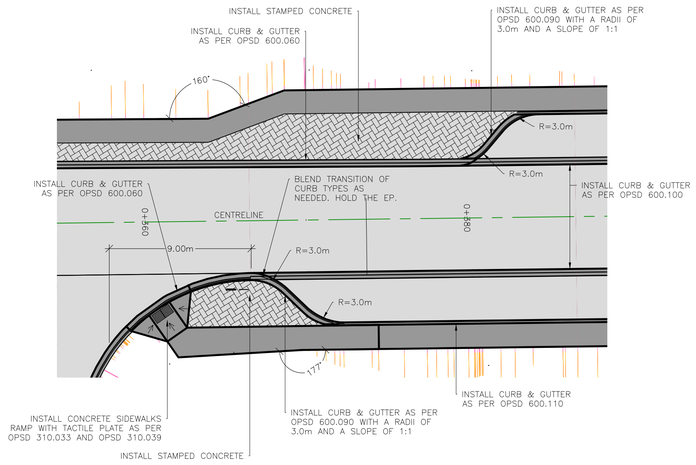
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Drawing No:
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# DETAILS

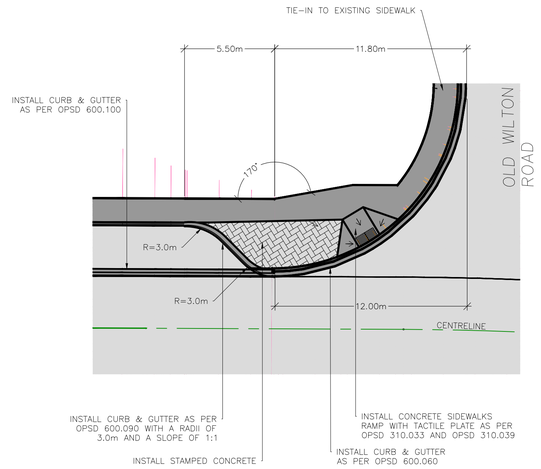
## G/8 CR2 CURB EXTENSION DETAIL
CROSS ST, MUD LAKE RD AND MILL ST



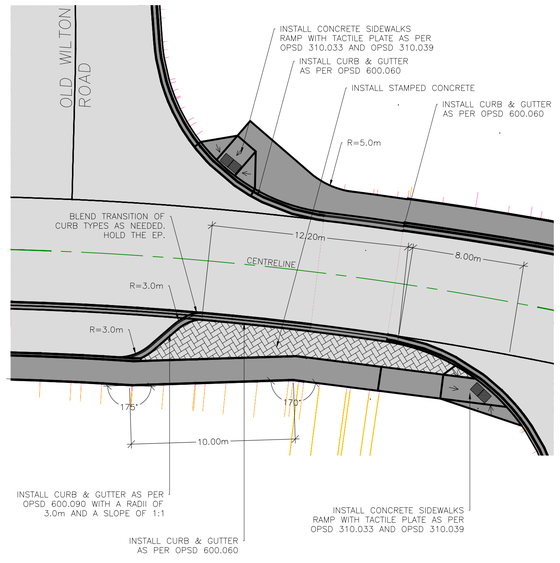

## H/8 CR2 SIDEWALK DETAIL
STA. 0+350 TO STA. 0+390



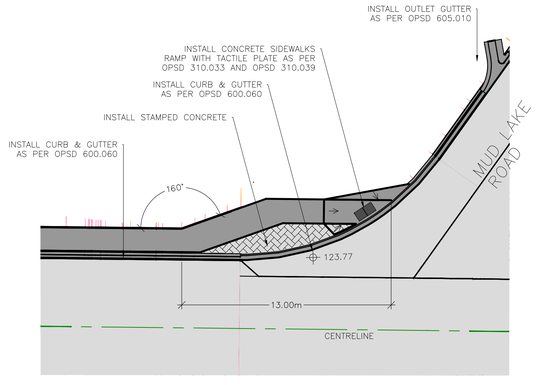

## I/8 CR2 SIDEWALK DETAIL
STA. 0+485 TO STA. 0+515



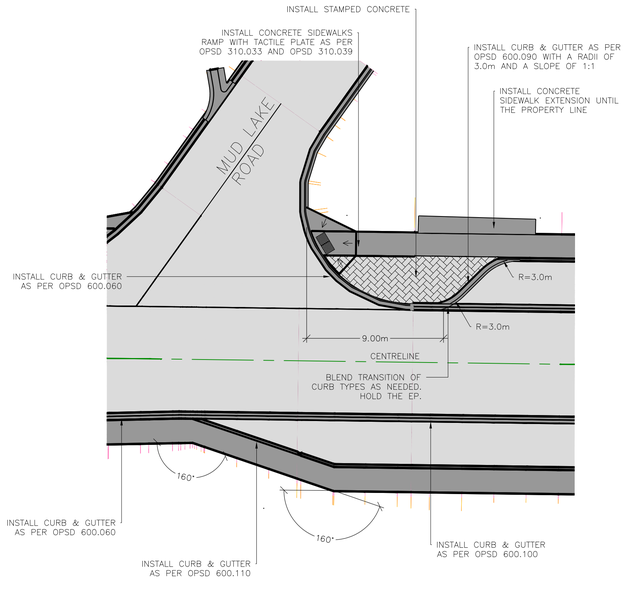

## J/8 CR2 SIDEWALK DETAIL
STA. 0+505 TO STA. 0+545




## K/8 CR2 SIDEWALK DETAIL
STA. 0+590 TO STA. 0+620




## L/8 CR2 SIDEWALK DETAIL
STA. 0+610 TO STA. 0+640




METRIC NOTE:

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LEGEND

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| | UTILITY POLE | |
| | SIGN | |
| | STORM SEWER | |
| | CATCH BASIN | |
| | DITCH INLET | |
| | CATCH BASIN MAINTENANCE HOLE | |
| | SANITARY MANHOLE | |
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| EX. GAS | NATURAL GAS LINE | |
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| | PROPERTY LINES | |
| | TOP OF BANK | |
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| | TOE OF SLOPE | |
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JEWELL ENGINEERING

COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

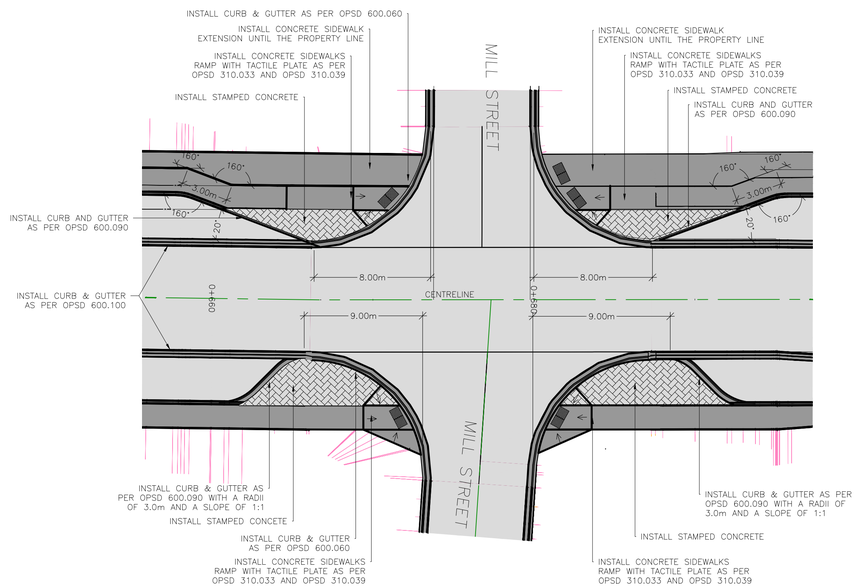
COUNTY ROAD 2
DETAILS

Drawn by:
Project No:
Designed by:
Date:
Checked by:
Scale – Hor:
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Approved by:
Contract No:
Drawing No: 8

# DETAILS

M
9

## CR2 SIDEWALK DETAIL
## STA. 0+655 TO STA. 0+690




METRIC NOTE:

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REVISIONS

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LEGEND

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| | UTILITY POLE | |
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| | STORM SEWER | |
| | CATCH BASIN | |
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| | CATCH BASIN MAINTENANCE HOLE | |
| | SANITARY MANHOLE | |
| EX SAN | SANITARY LINE | SAN |
| EX WTR | WATER LINE | WATER |
| EX. GAS | NATURAL GAS LINE | |
| | SANITARY CLEAN-OUT | |
| | WATER VALVE | |
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| OH HYDRO | OVERHEAD POWER LINE | |
| | GUY WIRE | |
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| | PROPERTY LINES | |
| | TOP OF BANK | |
| | TOP OF DITCH | |
| | TOE OF SLOPE | |
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JEWELL ENGINEERING

COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

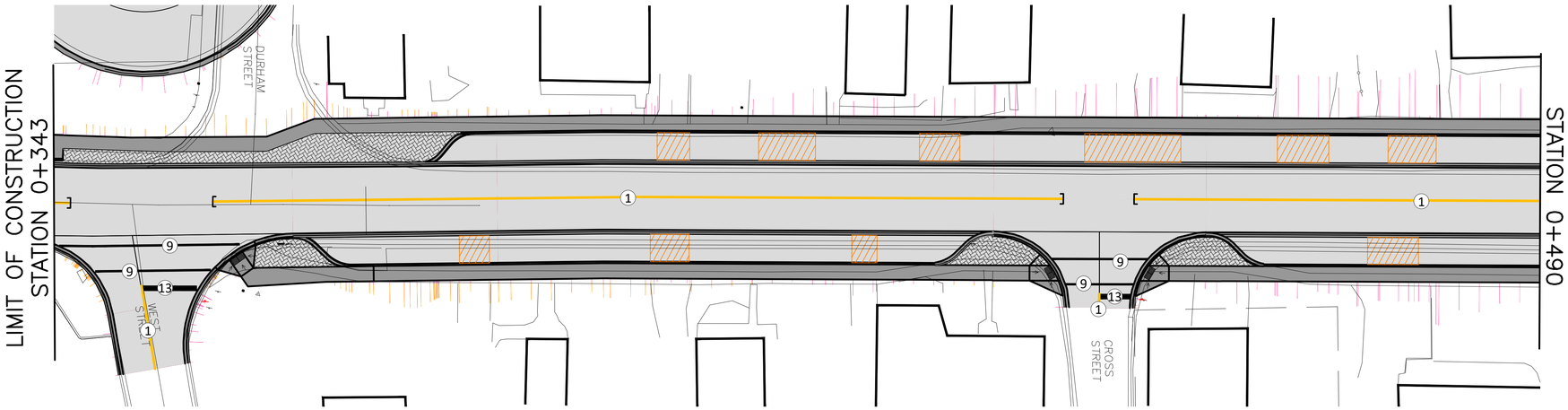
COUNTY ROAD 2
DETAILS

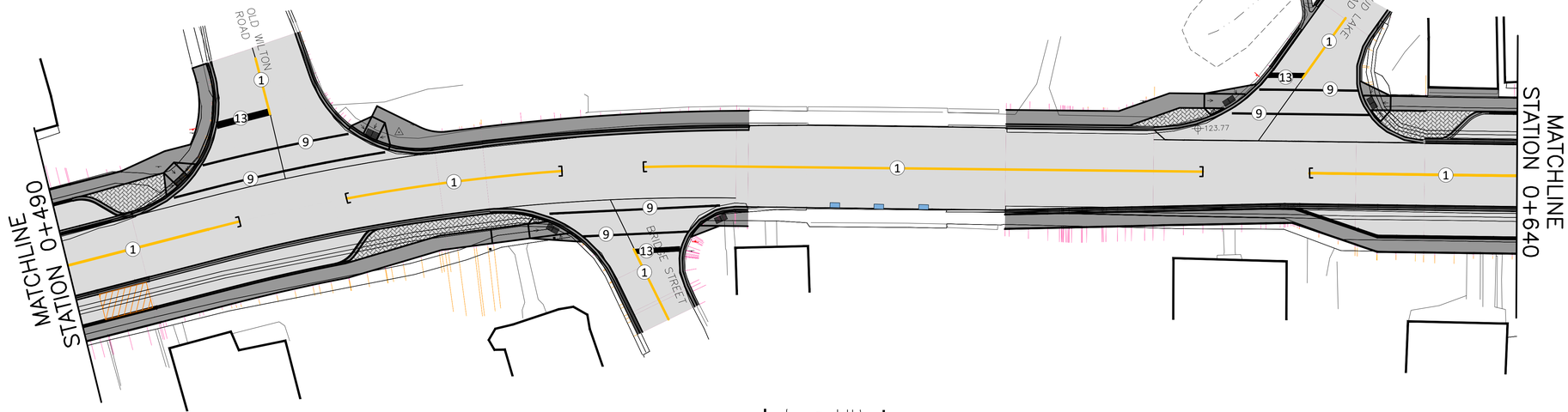
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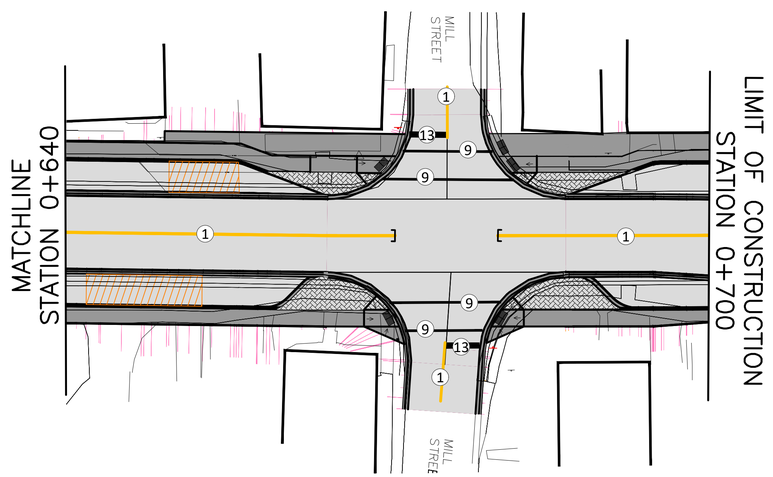
Project No:
Date:
Scale – Hor:
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Contract No:

Drawing No:
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# PAVEMENT MARKINGS




METRIC NOTE:

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

** DRAWINGS ARE NOT TO BE SCALED **

REVISIONS

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LEGEND

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| | UTILITY POLE | |
| | SIGN | |
| | STORM SEWER | |
| | CATCH BASIN | |
| | DITCH INLET | |
| | CATCH BASIN MAINTENANCE HOLE | |
| | SANITARY MANHOLE | |
| EX. SAN | SANITARY LINE | SAN |
| EX. WATER | WATER LINE | WATER |
| EX. GAS | NATURAL GAS LINE | |
| | SANITARY CLEAN-OUT | |
| WV | WATER VALVE | |
| | WATER SHUT-OFF | |
| OH HYDRO | 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 | |

| | |
|---|---|
| 1 | SOLID YELLOW,10cm |
| 2 | SOLID DOUBLE YELLOW,10cm |
| 3 | 3&3 BROKEN YELLOW,10cm |
| 4 | SOLID YELLOW,20cm |
| 5 | SOLID WHITE,10cm |
| 6 | 3&3 BROKEN WHITE,10cm |
| 7 | 3&3 BROKEN WHITE,10cm |
| 8 | 3&3 BROKEN WHITE,10cm |
| 9 | SOLID WHITE,20cm |
| 10 | 1:1:1 BROKEN WHITE,20cm |
| 11 | 3:3:3 BROKEN WHITE,20cm |
| 12 | 3:3:3 BROKEN WHITE,30cm |
| 13 | SOLID WHITE,30cm |
| 14 | SOLID WHITE,45cm |
| 15 | SOLID WHITE,60cm |
| 20 | SYMBOLS |
| [ [ | LIMITS OF MARKINGS |

NOTES:
1. 3:3:3, 3&3, Denotes Pavement Marking Spacing
(Ex. 3 m ink, 3 m gap, 3 m ink)
2. Use (1) to Denote PAVEMENT MARKING
3. Use (T) to Denote PAVEMENT MARKING, TEMPORARY
4. Use (R) to Denote PAVEMENT MARKING, TEMPORARY-ROADWORK
5. Use (D) to Denote PAVEMENT MARKING, DURABLE

JEWELL ENGINEERING

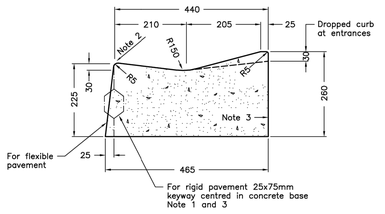
COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

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

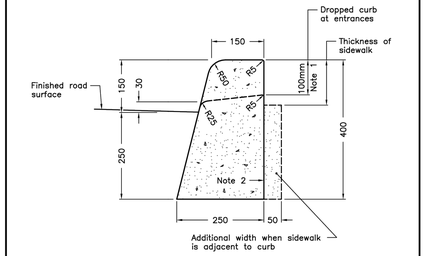
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Contract No:
Drawing No: 10

# STANDARD DRAWINGS



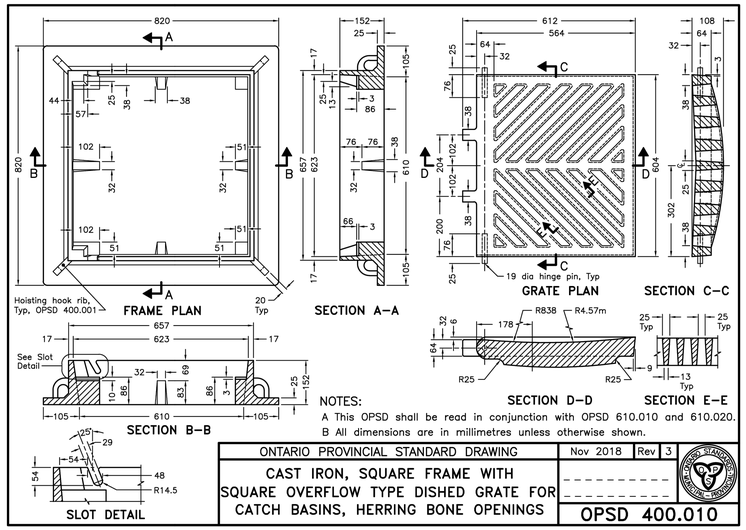

NOTES:
1 When curb and gutter is adjacent to concrete pavement or base, this drawing shall be used in conjunction with OPSD 552.010 and 552.020.
2 Flexible and composite pavement shall be placed 5mm above the adjacent edge of gutter.
3 For slipforming procedure a 5% batter is acceptable.
A Treatment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

| ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2012 | Rev 2 |
|---|---|---|
| CONCRETE MOUNTABLE CURB WITH NARROW GUTTER | | OPSD 600.100 |



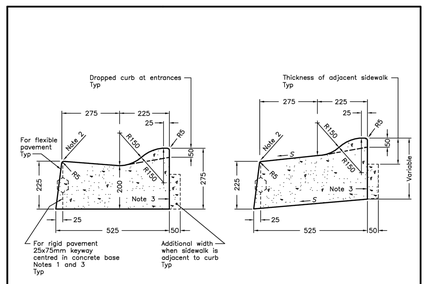

NOTES:
1 When sidewalk is continuously adjacent, the dropped curb at entrances shall be reduced to 75mm.
2 For slipforming procedure a 5% batter is acceptable.
A Treatment at entrances shall be according to OPSD 351.010.
B Outlet treatment shall be according to the OPSD 610 Series.
C The transition from one curb type to another shall be a minimum length of 3.0m, except in conjunction with guide rail where it shall be according to the OPSD 900 Series.
D All dimensions are in millimetres unless otherwise shown.

| ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2012 | Rev 2 |
|---|---|---|
| CONCRETE BARRIER CURB | | OPSD 600.110 |




NOTES:
A This OPSD shall be read in conjunction with OPSD 610.010 and 610.020.
B All dimensions are in millimetres unless otherwise shown.

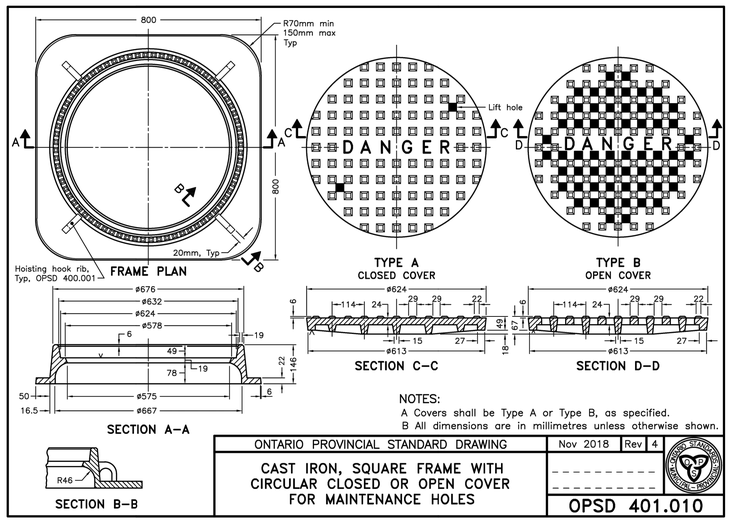
| ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2018 | Rev 3 |
|---|---|---|
| CAST IRON, SQUARE FRAME WITH SQUARE OVERFLOW TYPE DISHED GRATE FOR CATCH BASINS, HERRING BONE OPENINGS | | OPSD 400.010 |




LEGEND:
*S* – Rate of pavement superelevation in percent, %.

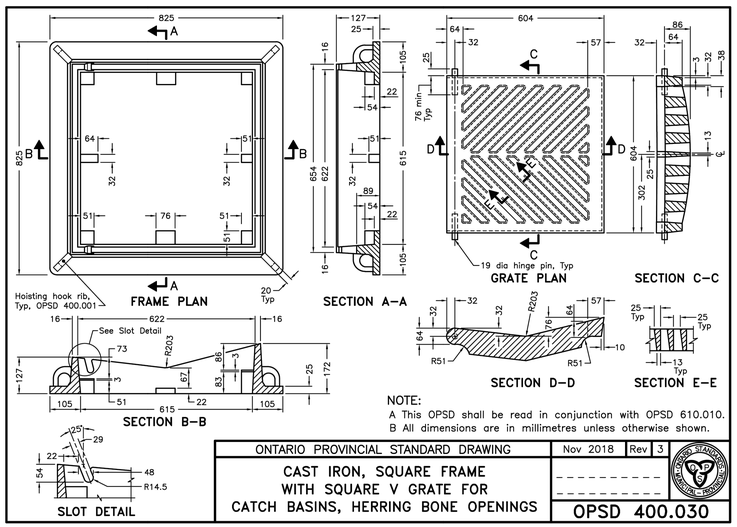
NOTES:
1 When curb and gutter is adjacent to concrete pavement or base, this drawing shall be used in conjunction with OPSD 552.010 and 552.020.
2 Flexible and composite pavement shall be placed 5mm above the adjacent edge of gutter.
3 For slipforming procedure a 5% batter is acceptable.
A Treatment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

| ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2012 | Rev 2 |
|---|---|---|
| CONCRETE SEMI-MOUNTABLE CURB WITH STANDARD GUTTER | | OPSD 600.060 |




NOTES:
A Covers shall be Type A or Type B, as specified.
B All dimensions are in millimetres unless otherwise shown.

| ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2018 | Rev 4 |
|---|---|---|
| CAST IRON, SQUARE FRAME WITH CIRCULAR CLOSED OR OPEN COVER FOR MAINTENANCE HOLES | | OPSD 401.010 |




NOTE:
A This OPSD shall be read in conjunction with OPSD 610.010.
B All dimensions are in millimetres unless otherwise shown.

| ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2018 | Rev 3 |
|---|---|---|
| CAST IRON, SQUARE FRAME WITH SQUARE V GRATE FOR CATCH BASINS, HERRING BONE OPENINGS | | OPSD 400.030 |

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

REVISIONS

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LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | UTILITY POLE | |
| | SIGN | |
| | STORM SEWER | |
| | CATCH BASIN | |
| | DITCH INLET | |
| | CATCH BASIN MAINTENANCE HOLE | |
| | SANITARY MANHOLE | |
| EX. SAN | SANITARY LINE | SAN |
| EX. WATER | WATER LINE | WATER |
| EX. GAS | NATURAL GAS LINE | |
| | SANITARY CLEAN-OUT | |
| | WATER VALVE | |
| | WATER SHUT-OFF | |
| OH HYDRO | 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 | |

JEWELL ENGINEERING

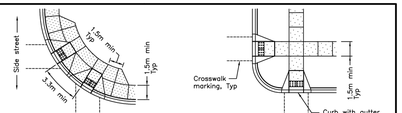
COUNTY OF
LENNOX AND ADDINGTON

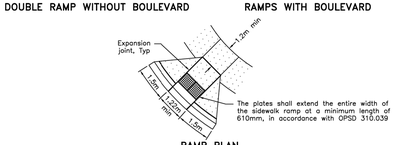
COUNTY ROAD 2

COUNTY ROAD 2
STANDARD DRAWINGS

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Project No:
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Date:
Checked by:
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Contract No:
Drawing No:
11

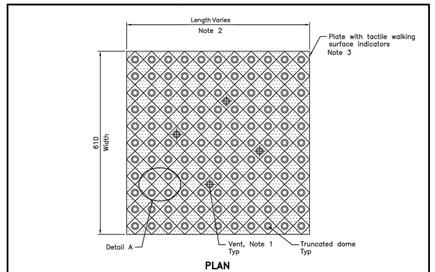
# STANDARD DRAWINGS



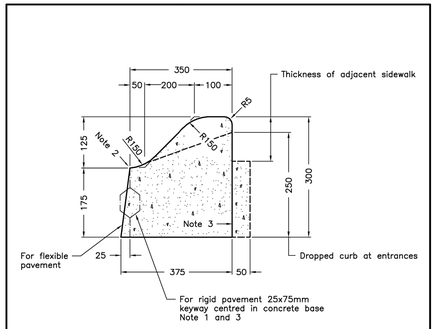

NOTES:
1 Slope of ramp shall not exceed 8%.
2 Cross slope of ramp shall not exceed 2% in either direction.
3 Cross slope of flared side of ramp shall not exceed 8%.
4 Dropped curb at ramp shall be modified to eliminate 30 mm step at gutter line.
5 Minimum thickness of ramp is 200mm. Minimum thickness of sidewalk and flared sides adjacent to ramp is 150mm.
A All dimensions are in millimetres unless otherwise shown.

| ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2019 | Rev 1 |
|---|---|---|
| CONCRETE SIDEWALK RAMPS AT UNSIGNALIZED INTERSECTIONS | | OPSD 310.033 |



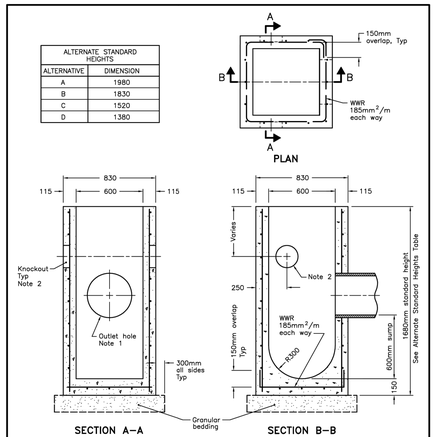

NOTES:
1 Vents shall be as specified by the manufacturer.
2 Length of plate may be increased to suit the curb depression width.
3 Material of plate shall be as specified in Contract Documents.
A Adjacent cast iron plates shall be permanently connected using a locking mechanism and any hardware shall be hot dipped galvanized.
B All dimensions are in millimetres unless otherwise shown.

| ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2019 | Rev 1 |
|---|---|---|
| CONCRETE SIDEWALK RAMPS TACTILE WALKING SURFACE INDICATORS COMPONENT | | OPSD 310.039 |



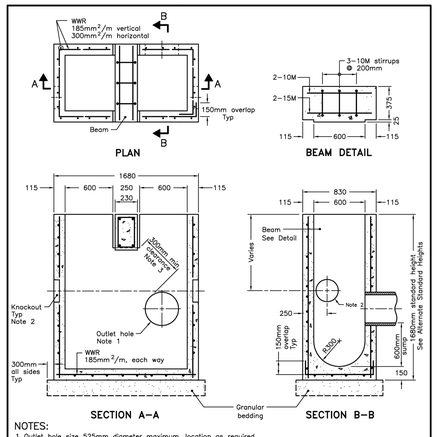

NOTES:
1 When curb and gutter is adjacent to concrete pavement or base, this drawing shall be used in conjunction with OPSD 552.010 and 552.020.
2 Flexible and composite pavement shall be placed 5mm above the adjacent edge of gutter.
3 For slipforming procedure a 5% batter is acceptable.
A Treatment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

| ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2012 | Rev 2 |
|---|---|---|
| CONCRETE SEMI–MOUNTABLE CURB WITH NARROW GUTTER | | OPSD 600.090 |




NOTES:
1 Outlet hole size 525mm diameter maximum, location as required.
2 200mm diameter knockout to accommodate subdrain. Knockout shall be 60mm deep.
A Centre reinforcing in base slab and walls ±20mm.
B Granular backfill shall be placed to a minimum thickness of 300mm all around the catch basin.
C Frame, grate, and adjustment units shall be installed according to OPSD 704.010.
D Pipe support shall be according to OPSD 708.020.
E All dimensions are nominal.
F All dimensions are in millimetres unless otherwise shown.

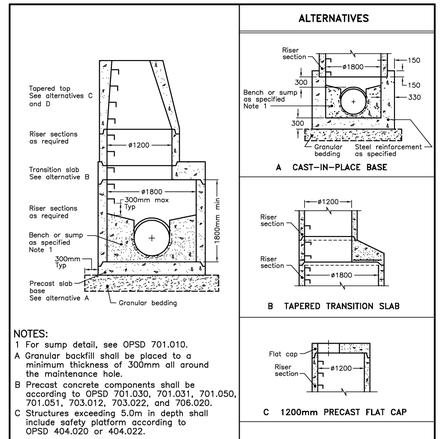
| ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2019 | Rev 4 |
|---|---|---|
| PRECAST CONCRETE CATCH BASIN 600x600mm | | OPSD 705.010 |




NOTES:
1 Outlet hole size 525mm diameter maximum, location as required.
2 200mm diameter knockout to accommodate subdrain. Knockout shall be 60mm deep.
3 Minimum clearance between beam recess and hole for pipe shall be 300mm or minimum clearance can be 150mm with addition of two 15M size rebar on 45 degree diagonal.
A Centre reinforcing in base slab and walls ±20mm.
B Granular backfill shall be placed to a minimum thickness of 300mm all around the catch basin.
C Frame, grate, and adjustment units shall be installed according to OPSD 704.010.
D Pipe support shall be according to OPSD 708.020.
E All dimensions are nominal.
F All dimensions are in millimetres unless otherwise shown.

| ALTERNATE STANDARD HEIGHTS | |
|---|---|
| ALTERNATIVE | DIMENSION |
| A | 1980 |
| B | 1830 |
| C | 1680 |

| ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2019 | Rev 4 |
|---|---|---|
| PRECAST CONCRETE TWIN INLET CATCH BASIN 600 x 1450mm | | OPSD 705.020 |




NOTES:
1 For sump detail, see OPSD 701.010.
A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
B Precast concrete components shall be according to OPSD 701.030, 701.031, 701.050, 701.051, 703.012, 703.022, and 706.020.
C Structures exceeding 5.0m in depth shall include safety platform according to OPSD 404.020 or 404.022.
D Pipe support shall be according to OPSD 708.020.
E For benching and pipe opening details, see OPSD 701.021.
F For adjustment unit and frame installation, see OPSD 704.010.
G All dimensions are nominal.
H All dimensions are in millimetres unless otherwise shown.

| ONTARIO PROVINCIAL STANDARD DRAWING | Nov 2014 | Rev 5 |
|---|---|---|
| PRECAST CONCRETE MAINTENANCE HOLE 1800mm DIAMETER | | OPSD 701.012 |

METRIC NOTE:

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

** DRAWINGS ARE NOT TO BE SCALED **

REVISIONS

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LEGEND

| EXISTING | | PROPOSED |
|---|---|---|
| | UTILITY POLE | |
| | SIGN | |
| | STORM SEWER | |
| | CATCH BASIN | |
| | DITCH INLET | |
| | CATCH BASIN MAINTENANCE HOLE | |
| | SANITARY MANHOLE | |
| EX. SAN | SANITARY LINE | SAN |
| EX. WTR | WATER LINE | WATER |
| EX. GAS | NATURAL GAS LINE | |
| | SANITARY CLEAN–OUT | |
| WV | WATER VALVE | |
| | WATER SHUT–OFF | |
| OH HYDRO | 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 | |

JEWELL ENGINEERING

COUNTY OF
LENNOX AND ADDINGTON

COUNTY ROAD 2

COUNTY ROAD 2
STANDARD DRAWINGS

Drawn by: Project No:

Designed by: Date:

Checked by: Scale – Hor:
Vert:

Approved by: Contract No: Drawing No: