RR98 - PP-05

MATCH LINE STA. 0+390 (SEE DWG. PP-04)

MONTROSE ROAD (FUTURE DEVELOPMENT)

INSTALL 150mmØ HDPE SUBDRAIN w/FILTER CLOTH BEHIND CURB (SEE DWG. D-01)

PROP FIRE HYDRANT & VALVE (OPSD 1105.010) STA. 0+103.0

HYDRANT 5

HYD_V

1.5m WIDE CONCRETE SIDEWALK

1.0m WIDE SALSA RED CONC. BLVD

SUBDRAIN

R = 730.0m

START TRANS. 0+398.2 190.086

Exist. L.S.

E.C. 0+414.96 190.412

CONCRETE CURB (OPSD 600.040)

0+432.2 190.74

TRANSITION TO REVERSE CROWN

B.C. 0+452.6 191.24

PROP. STM. M.H. '2' (0+444.5)

PROP. 61.0m - 675mmØ CONC. STM. @ 1.02%

PROP. 61.0m - 675mmØ CONC STM. @ 1.02%

PROP. 61.1m - 250mmØ PVC DR-35 SAN. @ 0.81%

PROP. SAN. M.H. 'B' (0+443.0)

PROP. 150.0m - 450mmØ CONC STM. @ 0.45%

BASELINE

BH 104

BH 4

PROP. 1500 DR-18 PVC W.S. LEAD

PROP. 13.3m - 200mmØ PVC DR-35 SAN. @ 1.80%

PROP. 15.3m - 600mmØ CONC STM. @ 4.55%

PROP. 3000 CB LEAD

Wo-4L Curve Sign

TEE 200 x 200 x 150mm

PROPOSED 200Ø DR-18 PVC WATERMAIN

CONCRETE CURB (OPSD 600.040)

B.C. 0+458.2 191.080

11 1/4° BEND

TEE 200 x 200 x 150mm

PROP. 250Ø PVC DR-35 SAN. @ 2.0%

PROPOSED 300Ø DR-18 PVC WATERMAIN

R = 389.5m

1500Ø V&B

1500 VALVE TO BE CLOSED UNTIL FUTURE EXTENSION IN USE.

REMOVE EXIST. BOULDERS

REMOVE CSP (14m)

11 1/4° BEND

PROP. D.C.B. 4 (0+455) TOP 191.00 W INV=190.34 (300Ø)

BOULEVARD TO BE SODDED FROM 0+400 TO 0+500

INSTALL 150mmØ HDPE SUBDRAIN w/FILTER CLOTH BEHIND CURB (DWG. D-01)

GRADE BOULEVARD TO MATCH WALKWAY

(GRADE BOULEVARD TO MATCH TRAIL)

Asphalt Multi-Use Trail

MAINTAIN EX. ASPHALT TRAIL

PLUG 6 0+441.1 INV=188.70 (200Ø) TOP 190.81

PLUG 5 0+460.75 INV=188.66 (200Ø) TOP 192.52

PROPERTY LINE

RESTORE EX ASPHALT TRAIL

7000 MONTROSE ROAD (FUTURE DEVELOPMENT)

FUTURE ACCESS

REGIONAL ROAD No. 98 (MONTROSE ROAD)

FUTURE DEVELOPMENT

NOTE: CONTRACTOR TO PROTECT PROPERTY BARS DURING CONSTRUCTION (TYP.)

Gravel Entrance

Concrete Blocks (Approx. Location)

BUSH

INDUSTRIAL ACCESS

CONCRETE CURB (OPSD 600.040) TANGENT)

R = 407.0m

0+522.15 END REVERSE CROWN 192.41

TRANSITION TO NORMAL CROWN

R = 407.0m

REVERSE CROWN

0+466.2 START REVERSE CROWN 191.62

CONNECT TO TRUNK SEWER WITH VERTICAL RISER

PROP. 150.0m - 250mmØ PVC DR-35 SAN. @ 0.50%

PROP. 150.0m - 600mmØ CONC STM. @ 0.49%

MAINTAIN EXIST. ASPHALT MULTI-USE TRAIL

PROP. DR-18 PVC WATERMAIN ENDING WITH 25mm BLOW OFF PER OPSD 1104.030

SAWCUT, RESTORE ASPHALT TRAIL TOP 192.70

BOULEVARD HYDRO SEEDING AND MULCHING

FUTURE ACCESS

PROPERTY LINE

MATCH LINE STA. 0+530 (SEE DWG. PP-06)

0+530 — FUTURE NORTH ENTRANCE (BY OTHERS)

PROP. 1200 DR-18 PVC WATERMAIN

PROP. 250mm PVC DR-35 SAN. LATERAL

PROP. 150.0m - 600mmØ CONC STM. @ 0.49%

PROP. 61.1m - 250mmØ PVC SAN. @ 0.81%

PROP. 61.0m - 675mmØ CONC STM. @ 1.02%

PROP. SAN. M.H. 'B' (1200Ø) 0+443.03 TOP ELEV. 191.90 S INV= 184.75 (250Ø) SE INV= 184.65 (250Ø) NE INV= 184.65 (250Ø)

PROP. STM. M.H. '2' (1200Ø) 0+444.95 NE INV= 185.66 (600Ø) S INV= 185.50 (675Ø) E INV= 185.60 (600Ø)

MH LANDING OPSD 404.020

MH DROP OPSD 1003.010

GRADE CHANGE

END OF BOREHOLE

PAVEMENT STRUCTURE 225mm ASPHALT 300mm GRANULAR

PAVEMENT STRUCTURE 260mm ASPHALT 470mm GRANULAR

CLAYEY SILT and GRAVEL FILL

CLAYEY SILT and SANDY SILT FILL

CLAYEY SILT/ SANDY SILT

SAND and GRAVEL FILL

PROPOSED CROWN OF ROAD

EXISTING CROWN OF ROAD

PVI STA = 0+470.00 ELEV = 191.371

BVCS= 0+509.03 BVCE 192.13

BVC

EVC

1.45%

2.43%

1.42%

STATION	0+390	0+400	0+410	0+420	0+430	0+440	0+450	0+460	0+470	0+480	0+490	0+500	0+510	0+520	0+530
EX. CROWN	190.12	190.26	190.41	190.55	190.70	190.84	191.09	191.33	191.57	191.71	191.86	192.00	192.14	192.26	192.32
PR. CROWN	189.971	190.124	190.318	190.500	190.691	190.872	191.164	191.444	191.710	191.840	192.000	192.140	192.280	192.400	192.428
PR. E. E/P	189.904	190.046	190.196	190.336	190.488	190.627	190.878	191.120	191.360	191.500	191.650	191.790	191.930	192.050	192.110

NO.	REVISION	DATE	INIT.
H	ISSUED FOR TENDERING	2019/01/09	Y.W.
G	ISSUED FOR TENDERING REVIEW	2018/11/30	Y.W.
F	ISSUED FOR 90% REVIEW	2018/10/22	Y.W.
E	ISSUED FOR UTILITY REVIEW (90%)	2017/04/12	R.B.
D	ISSUED FOR 70% REVIEW	2017/09/21	Y.W.
C	ISSUED FOR REVIEW	2017/07/05	R.B.
B	ISSUED FOR UTILITY TEST HOLES	2017/03/24	R.B.
A	ISSUED FOR UTILITY REVIEW	2017/01/08	R.B.

NOTES/LEGEND

1 THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWER AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

◯ EXISTING TREES TO BE RELOCATED

CAD R.B.B.

DESIGN Y.W.

CHECKED BY N.B.

APPROVED BY

BENCH MARK

MONUMENT No: 90030061

Concrete box culvert under Montrose Road located at the intersection of Montrose Road and McLeod Road. 15.2m east from the centre line of Montrose Road, and 23.6m north from the centre line of McLeod Road. Brass Tablet set vertically in the top of the culvert 2.55m south from the north edge of culvert and 1.12m west from the east edge of culvert.

ELEVATION: 181.508m

LICENSED PROFESSIONAL ENGINEER Y. WENG 100110133 9/1/19 PROVINCE OF ONTARIO

Niagara Region PUBLIC WORKS

PARSONS

RN19-05
ROAD RECONSTRUCTION AND WIDENING
REGIONAL ROAD 98 (MONTROSE ROAD)
NIAGARA FALLS
PLAN & PROFILE
FROM STA. 0+390 TO STA. 0+540

CONSULTANT FILE No. 603119

DATE 2016/10/01

SCALE HORIZ. 1:200 VERT. 1:50

REF. No. RR98 - PP-05

DWG No. RR98 - PP-05

REV. H

X-REFERENCES:

GEOGRAPHIC PROJECTION: U.T.M. NAD 83 ZONE 17 VERTICAL DATUM: CGVD28 DATUM description: XXXXXXXXXX ELEV. ####
DATUM: DATUM description XXXXXXXXXX ELEV. ####

DWG NAME: PLE FORMAT:Autodesk Civil 3D 2015 BOUNDING COORDINATES UPPER LEFT: Northing Easting BOUNDING COORDINATES LOWER RIGHT:Northing Easting BOUNDING COORDINATES LOWER LEFT: Northing Easting

APPROVALS

MOE	YYYY/MM/DD	
REGION	YYYY/MM/DD	
MCR	YYYY/MM/DD	
CPR	YYYY/MM/DD	

UTILITIES

NRBN	YYYY/MM/DD	
BELL	YYYY/MM/DD	
HYDRO	YYYY/MM/DD	
DSW	YYYY/MM/DD	
ENBRG	YYYY/MM/DD	
GAS	YYYY/MM/DD	