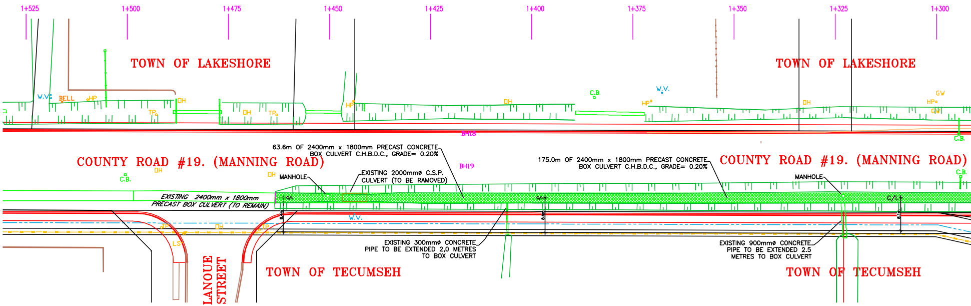
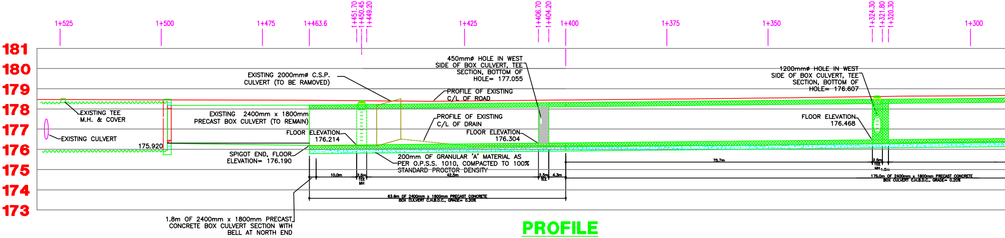
STORM SEWER
PLAN & PROFILE

SCALE:
NOV. 18,



1+525
1+500
1+475
1+450
1+425
1+400
1+375
1+350
1+325
1+300
TOWN OF LAKESHORE
TOWN OF LAKESHORE
W.V.
BELL
HP
OH
TP
HP
C.B.
W.V.
GW
BH18
63.6m OF 2400mm x 1800mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.20%
COUNTY ROAD #19. (MANNING ROAD)
BH19
175.0m OF 2400mm x 1800mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.20%
COUNTY ROAD #19. (MANNING ROAD)
MANHOLE
EXISTING 2000mmø C.S.P. CULVERT (TO BE RAMOVED)
MANHOLE
EXISTING 2400mm x 1800mm PRECAST BOX CULVERT (TO REMAIN)
C/L
W.V.
LS
EXISTING 300mmø CONCRETE PIPE TO BE EXTENDED 2.0 METRES TO BOX CULVERT
EXISTING 900mmø CONCRETE PIPE TO BE EXTENDED 2.5 METRES TO BOX CULVERT
LANOUE STREET
TOWN OF TECUMSEH
TOWN OF TECUMSEH

PLAN



1+451.70
1+450.45
1+449.20
1+406.70
1+404.20
1+324.30
1+321.80
1+320.30
1+525
1+500
1+475
1+463.6
1+425
1+400
1+375
1+350
1+300
181
180
179
178
177
176
175
174
173
450mmø HOLE IN WEST SIDE OF BOX CULVERT, TEE SECTION, BOTTOM OF HOLE= 177.055
1200mmø HOLE IN WEST SIDE OF BOX CULVERT, TEE SECTION, BOTTOM OF HOLE= 176.607
EXISTING 2000mmø C.S.P. CULVERT (TO BE RAMOVED)
PROFILE OF EXISTING C/L OF ROAD
EXISTING TEE M.H. & COVER
EXISTING 2400mm x 1800mm PRECAST BOX CULVERT (TO REMAIN)
PROFILE OF EXISTING C/L OF DRAIN
FLOOR ELEVATION 176.468
FLOOR ELEVATION 176.214
FLOOR ELEVATION 176.304
EXISTING CULVERT
175.920
SPIGOT END, FLOOR ELEVATION= 176.190
200mm OF GRANULAR 'A' MATERIAL AS PER O.P.S.S. 1010, COMPACTED TO 100% STANDARD PROCTOR DENSITY
10.0m
2.5m TEE MH
42.5m
2.5m TEE
4.3m
75.7m
2.5m TEE MH
1.5m
63.6m OF 2400mm x 1800mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.20%
175.0m OF 2400mm x 1800mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.20%
1.8m OF 2400mm x 1800mm PRECAST CONCRETE BOX CULVERT SECTION WITH BELL AT NORTH END

PROFILE

R. LUCENTE ENGINEERING INC.
CONSULTING ENGINEERS

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Windsor, Ontario, Canada
N8W 3S4

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Fax: (519) 966-4088
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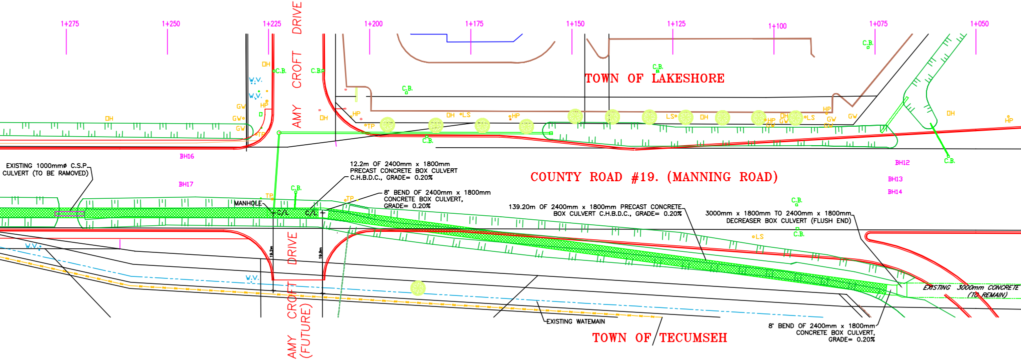
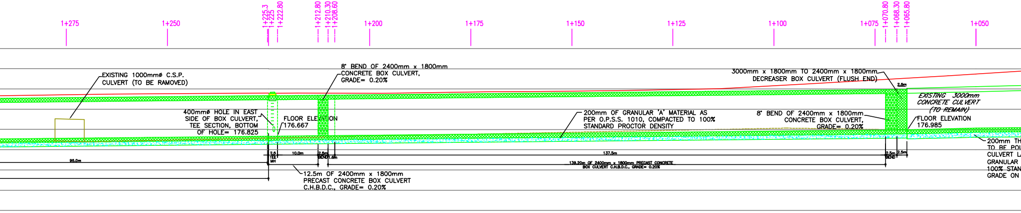
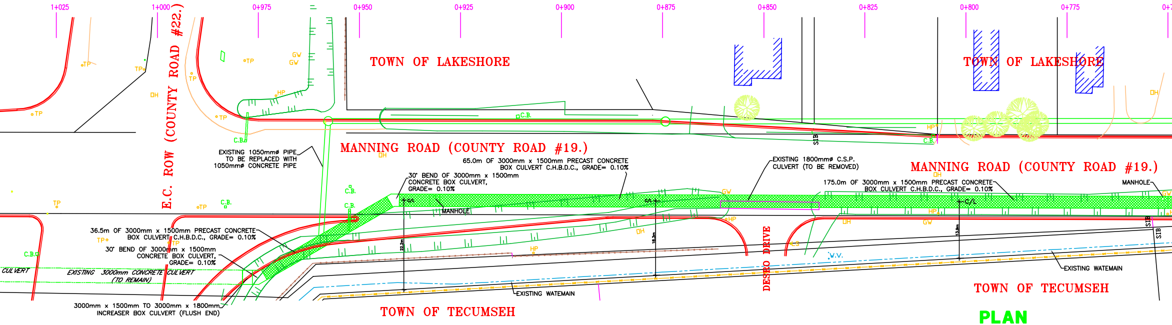
1: 750

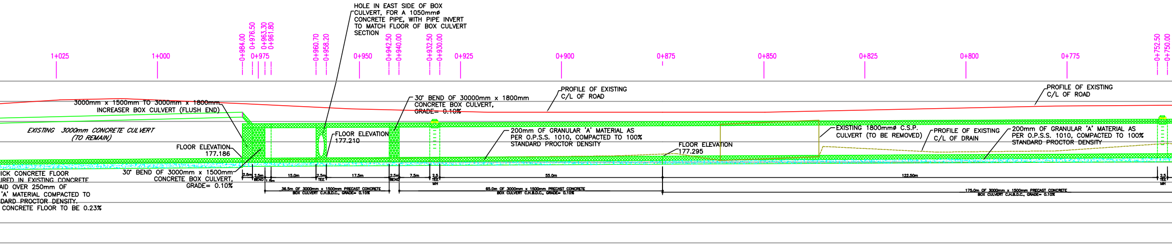
2005


1+275
1+250
1+225
1+200
1+175
1+150
1+125
1+100
1+075
1+050
AMY CROFT DRIVE
TOWN OF LAKESHORE
C.B.
W.V.
GW
HP
OH
LS
TP
BH16
BH17
BH12
BH13
BH14
EXISTING 1000mmø C.S.P. CULVERT (TO BE RAMOVED)
MANHOLE
C/L
12.2m OF 2400mm x 1800mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.20%
8° BEND OF 2400mm x 1800mm CONCRETE BOX CULVERT, GRADE= 0.20%
COUNTY ROAD #19. (MANNING ROAD)
139.20m OF 2400mm x 1800mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.20%
3000mm x 1800mm TO 2400mm x 1800mm DECREASER BOX CULVERT (FLUSH END)
EXISTING 3000mm CONCRETE (TO REMAIN)
19.2m
19.9m
AMY CROFT DRIVE (FUTURE)
EXISTING WATEMAIN
TOWN OF TECUMSEH
8° BEND OF 2400mm x 1800mm CONCRETE BOX CULVERT, GRADE= 0.20%

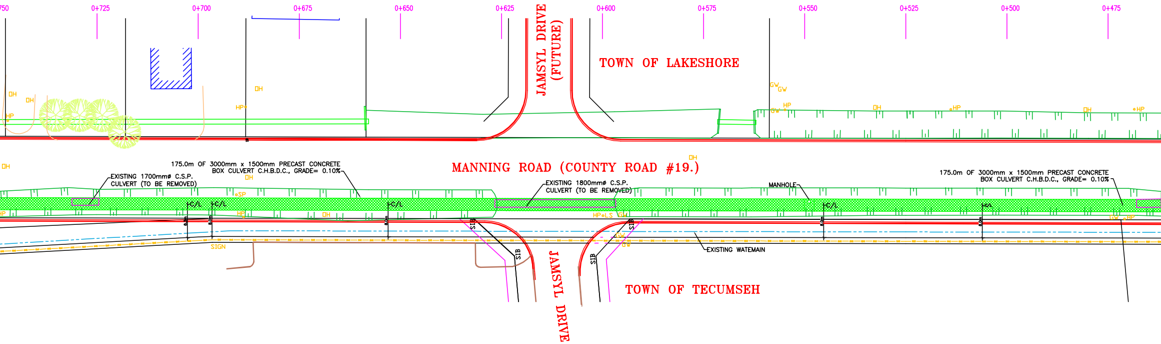

1+275
1+250
1+225.3
1+225
1+222.80
1+212.80
1+210.30
1+208.60
1+200
1+175
1+150
1+125
1+100
1+075
1+070.80
1+068.30
1+065.80
1+050
EXISTING 1000mmø C.S.P. CULVERT (TO BE RAMOVED)
8° BEND OF 2400mm x 1800mm CONCRETE BOX CULVERT, GRADE= 0.20%
400mmø HOLE IN EAST SIDE OF BOX CULVERT, TEE SECTION, BOTTOM OF HOLE= 176.825
FLOOR ELEVATION 176.667
200mm OF GRANULAR 'A' MATERIAL AS PER O.P.S.S. 1010, COMPACTED TO 100% STANDARD PROCTOR DENSITY
3000mm x 1800mm TO 2400mm x 1800mm DECREASER BOX CULVERT (FLUSH END)
2.5m
EXISTING 3000mm CONCRETE CULVERT (TO REMAIN)
8° BEND OF 2400mm x 1800mm CONCRETE BOX CULVERT, GRADE= 0.20%
FLOOR ELEVATION 176.985
200mm TH
TO BE POU
CULVERT L
GRANULAR
100% STAN
GRADE ON
95.0m
2.5 TEE MH
10.0m
2.5m BEND
1.6m
137.5m
2.5m BEND
2.5m
139.20m OF 2400mm x 1800mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.20%
12.5m OF 2400mm x 1800mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.20%

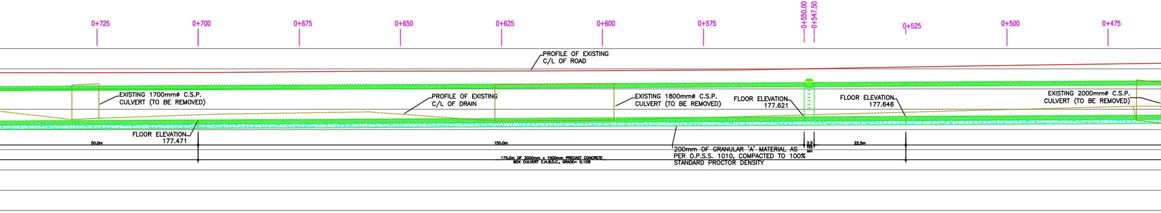

1+025
1+000
0+975
0+950
0+925
0+900
0+875
0+850
0+825
0+800
0+775
TOWN OF LAKESHORE
TOWN OF LAKESHORE
E.C. ROW (COUNTY ROAD #22.)
MANNING ROAD (COUNTY ROAD #19.)
MANNING ROAD (COUNTY ROAD #19.)
EXISTING 1050mmø PIPE TO BE REPLACED WITH 1050mmø CONCRETE PIPE
65.0m OF 3000mm x 1500mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.10%
30° BEND OF 3000mm x 1500mm CONCRETE BOX CULVERT, GRADE= 0.10%
MANHOLE
C/L
EXISTING 1800mmø C.S.P. CULVERT (TO BE REMOVED)
175.0m OF 3000mm x 1500mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.10%
MANHOLE
36.5m OF 3000mm x 1500mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.10%
30° BEND OF 3000mm x 1500mm CONCRETE BOX CULVERT, GRADE= 0.10%
CULVERT
EXISTING 3000mm CONCRETE CULVERT (TO REMAIN)
3000mm x 1500mm TO 3000mm x 1800mm INCREASER BOX CULVERT (FLUSH END)
22.2m
18.3m
13.9m
DESRO DRIVE
EXISTING WATEMAIN
EXISTING WATEMAIN
W.V.
TOWN OF TECUMSEH
TOWN OF TECUMSEH
C.B.
TP
HP
OH
GW
SIB

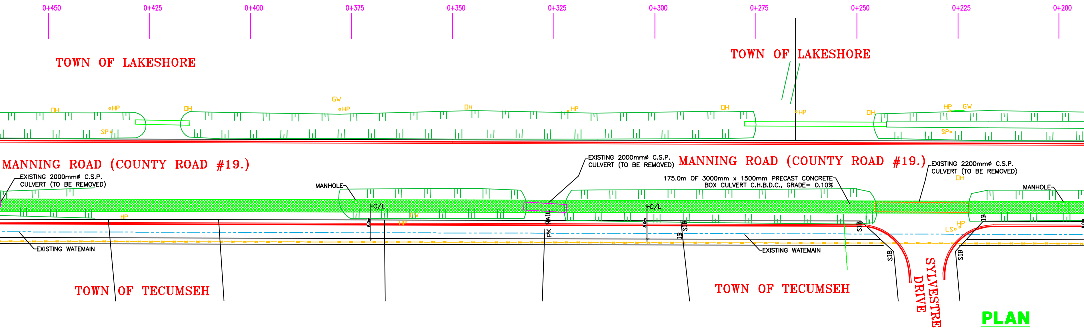
PLAN


HOLE IN EAST SIDE OF BOX CULVERT, FOR A 1050mmø CONCRETE PIPE, WITH PIPE INVERT TO MATCH FLOOR OF BOX CULVERT SECTION
0+984.00
0+976.50
0+963.30
0+961.80
0+960.70
0+958.20
0+942.50
0+940.00
0+932.50
0+930.00
0+752.50
0+750.00
1+025
1+000
0+975
0+950
0+925
0+900
0+875
0+850
0+825
0+800
0+775
3000mm x 1500mm TO 3000mm x 1800mm INCREASER BOX CULVERT (FLUSH END)
30° BEND OF 30000mm x 1800mm CONCRETE BOX CULVERT, GRADE= 0.10%
PROFILE OF EXISTING C/L OF ROAD
PROFILE OF EXISTING C/L OF ROAD
EXISTING 3000mm CONCRETE CULVERT (TO REMAIN)
FLOOR ELEVATION 177.186
FLOOR ELEVATION 177.210
200mm OF GRANULAR 'A' MATERIAL AS PER O.P.S.S. 1010, COMPACTED TO 100% STANDARD PROCTOR DENSITY
FLOOR ELEVATION 177.295
EXISTING 1800mmø C.S.P. CULVERT (TO BE REMOVED)
PROFILE OF EXISTING C/L OF DRAIN
200mm OF GRANULAR 'A' MATERIAL AS PER O.P.S.S. 1010, COMPACTED TO 100% STANDARD PROCTOR DENSITY
30° BEND OF 3000mm x 1500mm CONCRETE BOX CULVERT, GRADE= 0.10%
ICK CONCRETE FLOOR
URED IN EXISTING CONCRETE
AID OVER 250mm OF
'A' MATERIAL COMPACTED TO
DARD PROCTOR DENSITY.
CONCRETE FLOOR TO BE 0.23%
2.5m
2.5m BEND
1.5m
15.0m
2.5m TEE
17.5m
2.5m BEND
7.5m
2.5 TEE MH
55.0m
122.50m
2.5 TEE MH
36.5m OF 3000mm x 1500mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.10%
65.0m OF 3000mm x 1500mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.10%
175.0m OF 3000mm x 1500mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.10%

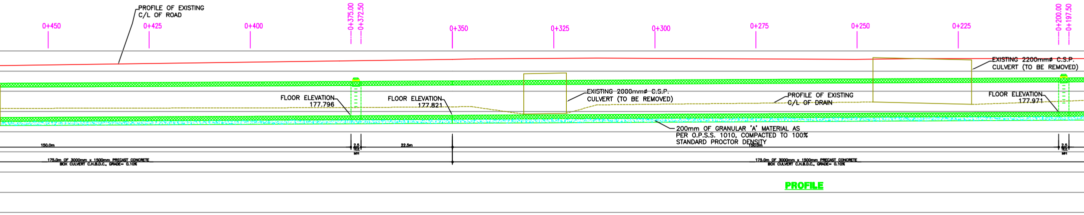
PROFILE


0+750
0+725
0+700
0+675
0+650
0+625
0+600
0+575
0+550
0+525
0+500
0+475
JAMSYL DRIVE (FUTURE)
TOWN OF LAKESHORE
DH
HP
GW
MANNING ROAD (COUNTY ROAD #19.)
175.0m OF 3000mm x 1500mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.10%
EXISTING 1700mmø C.S.P. CULVERT (TO BE REMOVED)
EXISTING 1800mmø C.S.P. CULVERT (TO BE REMOVED)
MANHOLE
175.0m OF 3000mm x 1500mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.10%
C/L
8.0m
SP
HP LS
SIGN
SIB
EXISTING WATEMAIN
JAMSYL DRIVE
TOWN OF TECUMSEH


0+725
0+700
0+675
0+650
0+625
0+600
0+575
0+550.00
0+547.50
0+525
0+500
0+475
PROFILE OF EXISTING C/L OF ROAD
EXISTING 1700mmø C.S.P. CULVERT (TO BE REMOVED)
PROFILE OF EXISTING C/L OF DRAIN
EXISTING 1800mmø C.S.P. CULVERT (TO BE REMOVED)
FLOOR ELEVATION 177.621
FLOOR ELEVATION 177.646
EXISTING 2000mmø C.S.P. CULVERT (TO BE REMOVED)
FLOOR ELEVATION 177.471
50.0m
150.0m
175.0m OF 3000mm x 1500mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.10%
200mm OF GRANULAR 'A' MATERIAL AS PER O.P.S.S. 1010, COMPACTED TO 100% STANDARD PROCTOR DENSITY
2.5
TEE
MH
22.5m


0+450
0+425
0+400
0+375
0+350
0+325
0+300
0+275
0+250
0+225
0+200
TOWN OF LAKESHORE
TOWN OF LAKESHORE
OH
HP
SP
OH
GW
HP
OH
HP
OH
HP
OH
HP
GW
SP
MANNING ROAD (COUNTY ROAD #19.)
MANNING ROAD (COUNTY ROAD #19.)
EXISTING 2000mmø C.S.P. CULVERT (TO BE REMOVED)
EXISTING 2000mmø C.S.P. CULVERT (TO BE REMOVED)
175.0m OF 3000mm x 1500mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.10%
EXISTING 2200mmø C.S.P. CULVERT (TO BE REMOVED)
OH
MANHOLE
MANHOLE
C/L
C/L
HP
PK NAIL
IB
SIB
SIB
SIB
IB
SIB
HP
LS
EXISTING WATEMAIN
EXISTING WATEMAIN
TOWN OF TECUMSEH
TOWN OF TECUMSEH
SYLVESTRE DRIVE

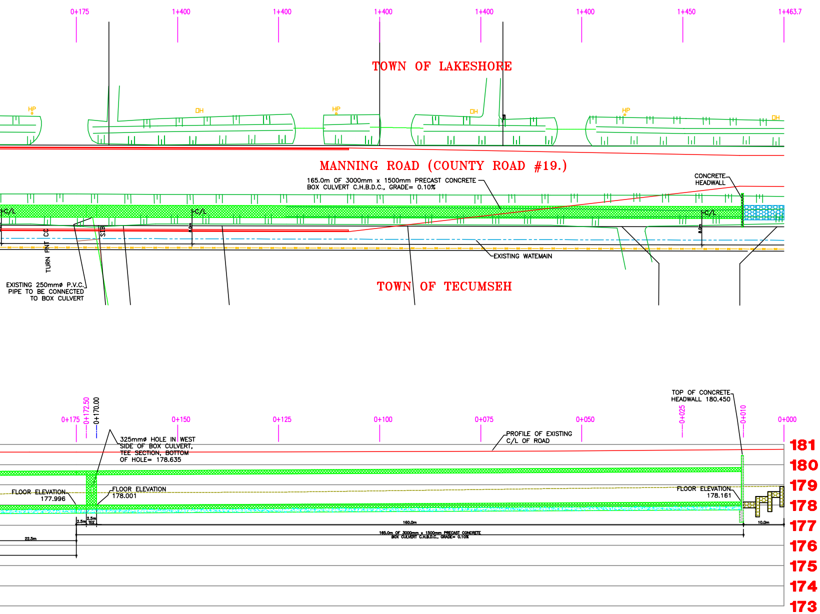
PLAN


PROFILE OF EXISTING C/L OF ROAD
0+450
0+425
0+400
0+375.00
0+372.50
0+350
0+325
0+300
0+275
0+250
0+225
0+200.00
0+197.50
EXISTING 2200mmø C.S.P. CULVERT (TO BE REMOVED)
FLOOR ELEVATION 177.796
FLOOR ELEVATION 177.821
EXISTING 2000mmø C.S.P. CULVERT (TO BE REMOVED)
PROFILE OF EXISTING C/L OF DRAIN
FLOOR ELEVATION 177.971
200mm OF GRANULAR 'A' MATERIAL AS PER O.P.S.S. 1010, COMPACTED TO 100% STANDARD PROCTOR DENSITY
150.0m
2.5
TEE
MH
22.5m
150.0m
2.5
TEE
MH
175.0m OF 3000mm x 1500mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.10%
175.0m OF 3000mm x 1500mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.10%
PROFILE

PROFILE

STORM SEWER
PLAN & PROFILE

SCALE: 1:750
NOV. 18, 2005


0+175
1+400
1+400
1+400
1+400
1+400
1+450
1+463.7
TOWN OF LAKESHORE
HP
OH
HP
OH
HP
OH
MANNING ROAD (COUNTY ROAD #19.)
165.0m OF 3000mm x 1500mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.10%
CONCRETE HEADWALL
C/L
C/L
C/L
8.0m
8.0m
TURN FNT CC
STB
EXISTING WATEMAIN
EXISTING 250mmø P.V.C. PIPE TO BE CONNECTED TO BOX CULVERT
TOWN OF TECUMSEH
TOP OF CONCRETE HEADWALL 180.450
0+175
0+172.50
0+170.00
0+150
0+125
0+100
0+075
0+050
0+025
0+010
0+000
325mmø HOLE IN WEST SIDE OF BOX CULVERT, TEE SECTION, BOTTOM OF HOLE= 178.635
PROFILE OF EXISTING C/L OF ROAD
FLOOR ELEVATION 177.996
FLOOR ELEVATION 178.001
FLOOR ELEVATION 178.161
2.5m
2.5m TEE
160.0m
10.0m
22.5m
165.0m OF 3000mm x 1500mm PRECAST CONCRETE BOX CULVERT C.H.B.D.C., GRADE= 0.10%
181
180
179
178
177
176
175
174
173

STORM SEWER PLAN & PROFILE (P.I.C. 3)

Figure 25