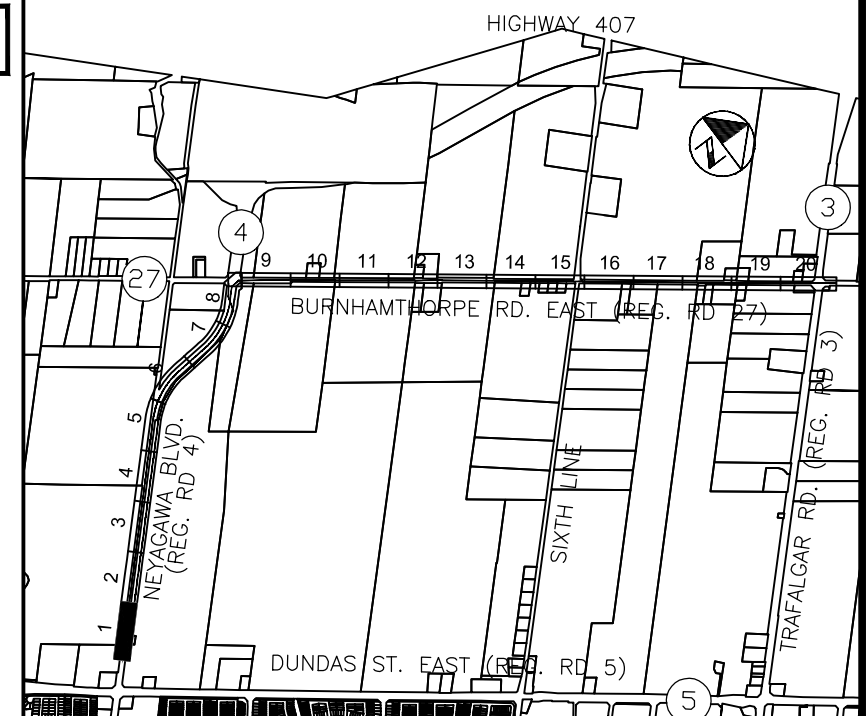


UTM NAD 83, ZONE 17



KEY PLAN N.T.S.

NOTES:
1. SEE INDEX SHEET FOR GENERAL NOTES.

AS CONSTRUCTED WATERMAIN DATA

PI No.	EASTING	NORTHING	DESCRIPTION
P1	601445.89	4813240.89	CLOSURE
P2	601433.85	4813253.04	VERT. DEFL. 6.1'
P3	601419.74	4813267.21	VERT. DEFL. 6.1'
P4	601391.43	4813295.41	HOR. DEFL. 0.6'
P5	601353.74	4813332.30	HOR. DEFL. 4.5'
P6	601307.81	4813371.07	HOR. DEFL. 4.6'
P7	601294.49	4813383.73	HOR. DEFL. 0.9'

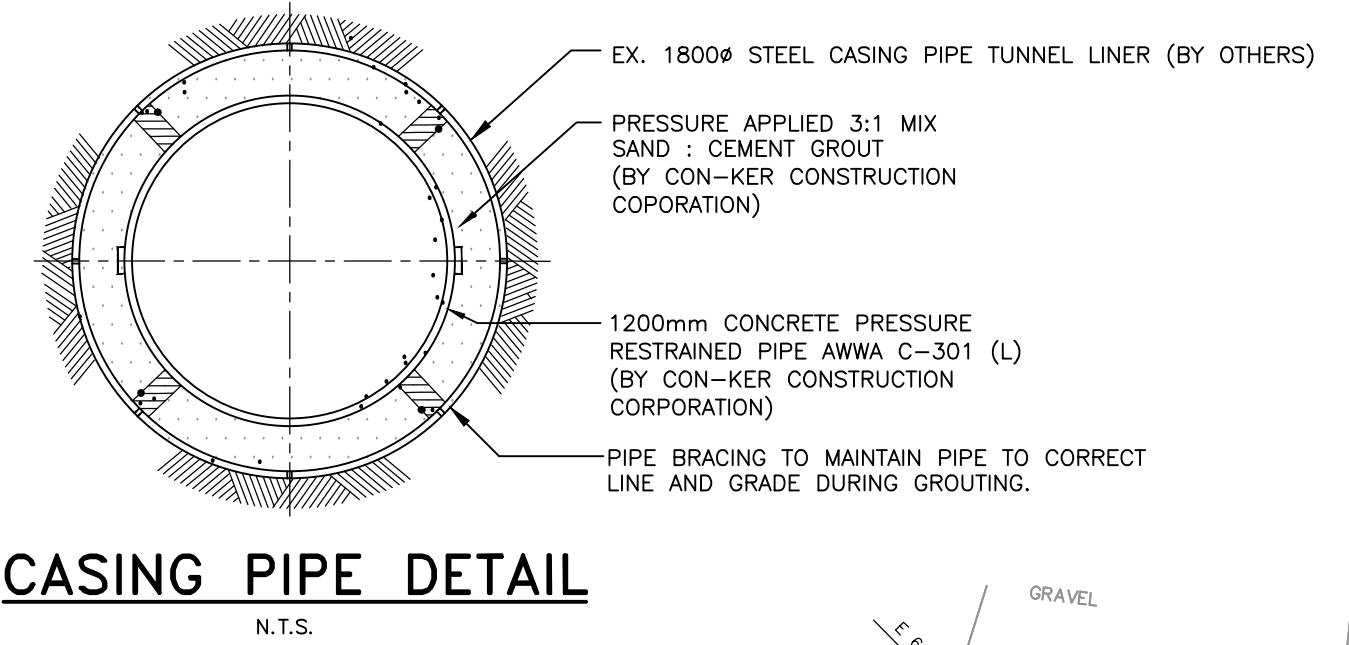
HORIZONTAL REFERENCE POINTS C/L WM

HR#	EASTING	NORTHING	DESCRIPTION
1	601442.67	4813244.19	TOP OF PIPE
2	601400.96	4813286.06	TOP OF PIPE
3	601370.41	4813316.05	TOP OF PIPE
4	601310.41	4813368.65	TOP OF PIPE
5	601299.00	4813379.26	TOP OF PIPE

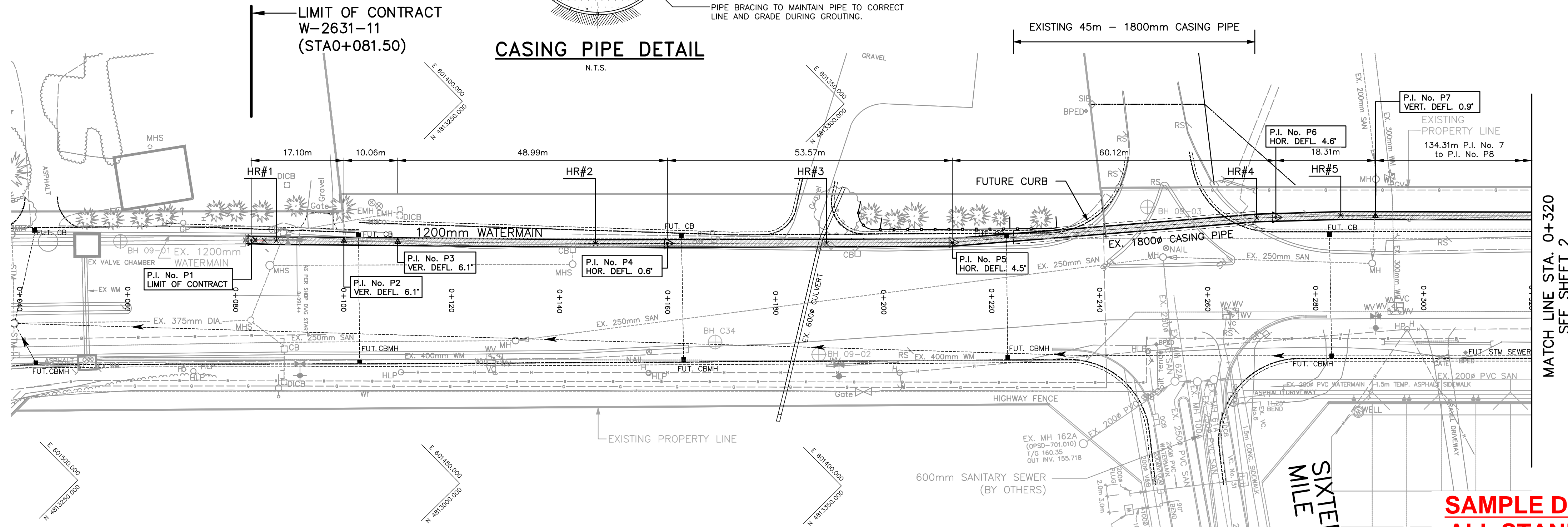
ELEVATIONS AND DIMENSIONS ARE FOR REFERENCE ONLY AND MUST BE CONFIRMED PRIOR TO USE FOR DESIGN, LAY-OUT OR CONSTRUCTION PURPOSES.

AS CONSTRUCTED INFORMATION SUPPLIED BY CON-KER CONSTRUCTION CORPORATION DATED APRIL 24, 2012

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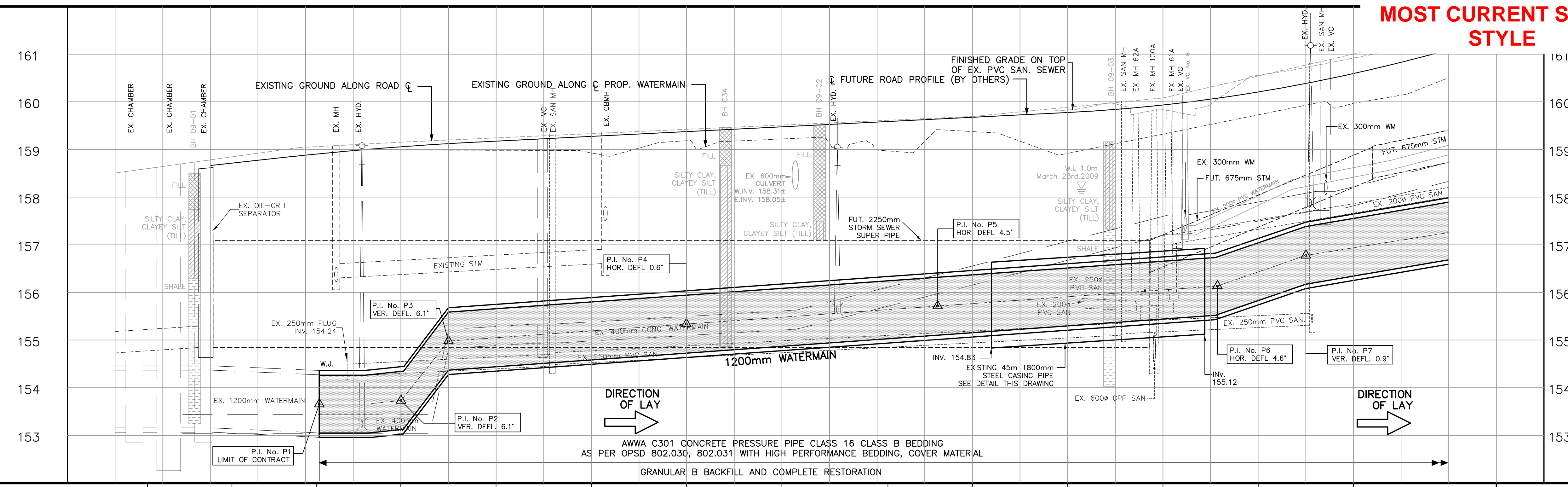
CASING PIPE DETAIL N.T.S.



NEYAGAWA BOULEVARD (REG. RD. 4)

MATCH LINE STA. 0+320 SEE SHEET 2

SIXTEEN MILE DRIVE



STATIONS	EX. ROAD ELEVATIONS	AS CONSTRUCTED WATERMAIN INVERTS
0+060	158.51	153.05
0+080	158.78	153.05
0+100	159.05	153.06
0+120	159.15	153.06
0+140	159.24	153.06
0+160	159.33	153.06
0+180	159.42	153.06
0+200	159.51	153.06
0+220	159.60	153.06
0+240	159.69	153.06
0+260	159.78	153.06
0+280	159.87	153.06
0+300	160.00	153.06
0+320	161.43	153.06

NO	Date	By	REVISIONS	MANU CAD
1	MAR 2014	P.B.	AS CONSTRUCTED	
DESIGN: WYC, Ch'kd J.S., Date FEBRUARY 2011				
DRAWN: 10-12, Ch'kd WYC				
Scale: 1:500 Horiz., 1:50 Vert.				
Regional: ACCEPTED FOR CONSTRUCTION OF REGIONAL INFRASTRUCTURE				
Field Notes: REGION BOOK				
Stamp: M.S. RUPRAI, PROFESSIONAL ENGINEER, PROVINCE OF ONTARIO				

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100 Commerce Valley Dr. West, Thornhill, ON Canada L3T 0A1
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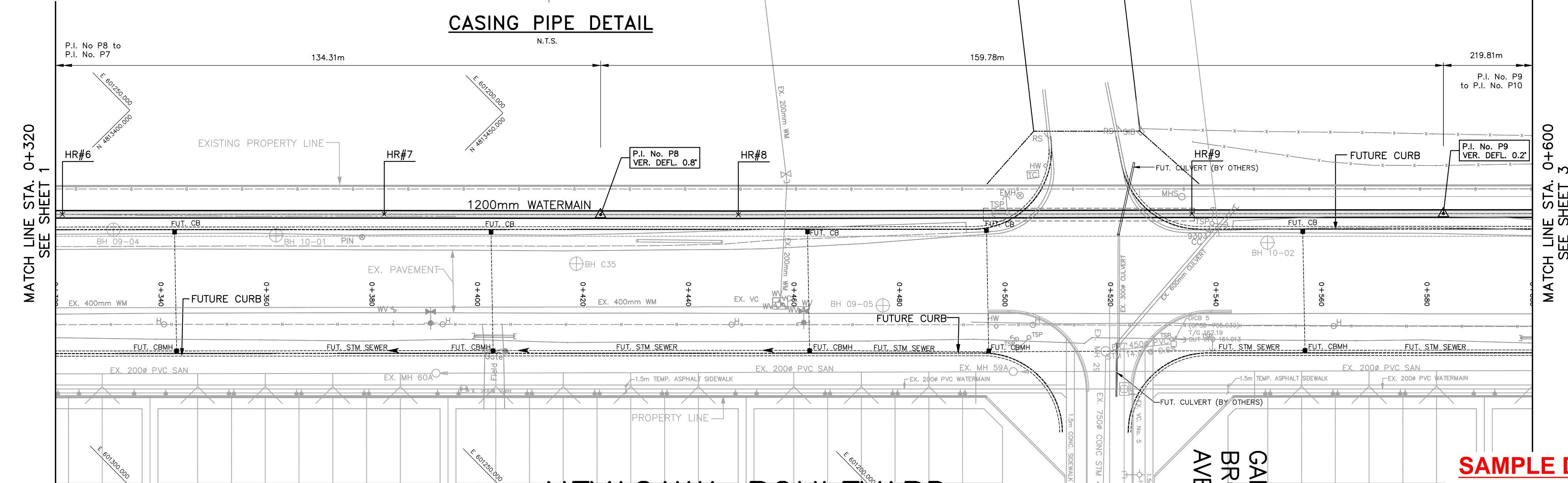
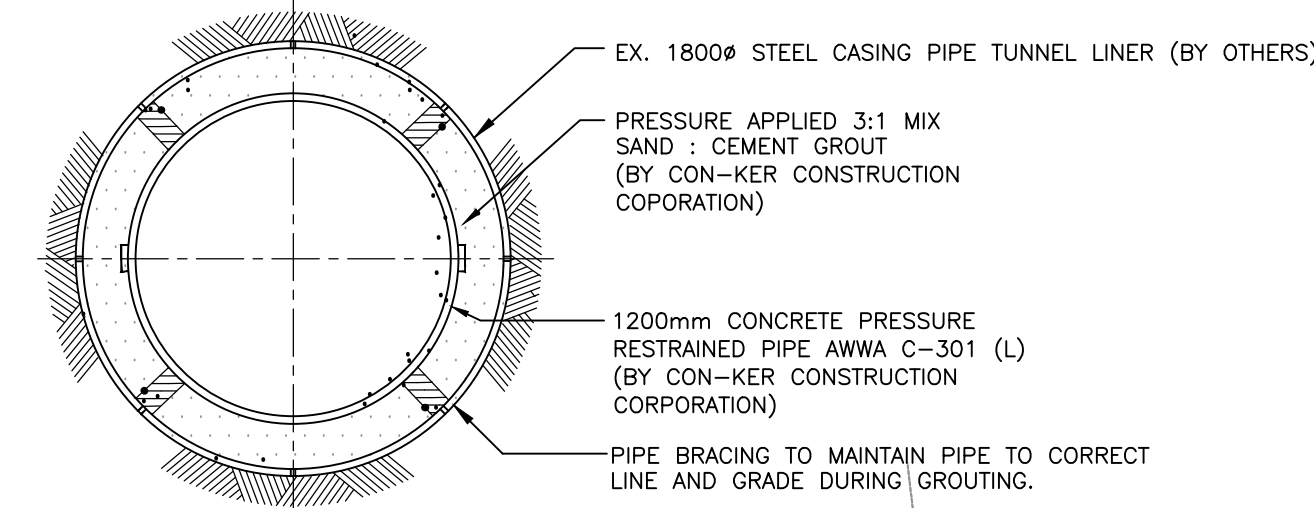
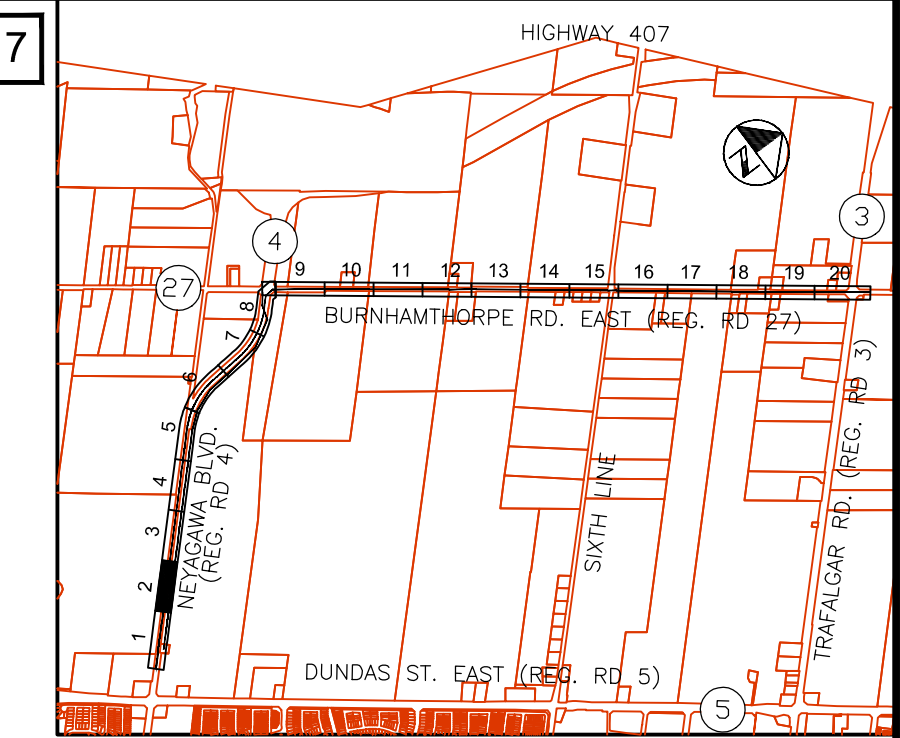
Halton REGION

WATERMAIN INSTALLATION ON NEYAGAWA BLVD. & BURNHAMTHORPE ROAD
NEYAGAWA BOULEVARD
FROM 75m NORTH OF DUNDAS STREET TO 305m NORTH OF DUNDAS STREET
STA 0+040 TO STA 0+320
TOWN OF OAKVILLE

Consultant File NO: 10-08093
Regional Drawing NO: W-2631-11
Drawing NO: SHEET 1 OF 31

W-2631-11 1 of 31
Drawing: C:\USERS\CHAM\DOCUMENTS\ENGINEERING_2014\CD-PR2631_NEYA-WM\08093\PROFILES 1-B.DWG
Date: 01/21/2015 Time: 11:29:39 AM

UTM NAD 83, ZONE 17



NEYAGAWA BOULEVARD
(REG. RD. 4)

GARDEN
BROOK
AVENUE

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AS CONSTRUCTED INFORMATION SUPPLIED BY CON-KER CONSTRUCTION CORPORATION DATED APRIL 24, 2012

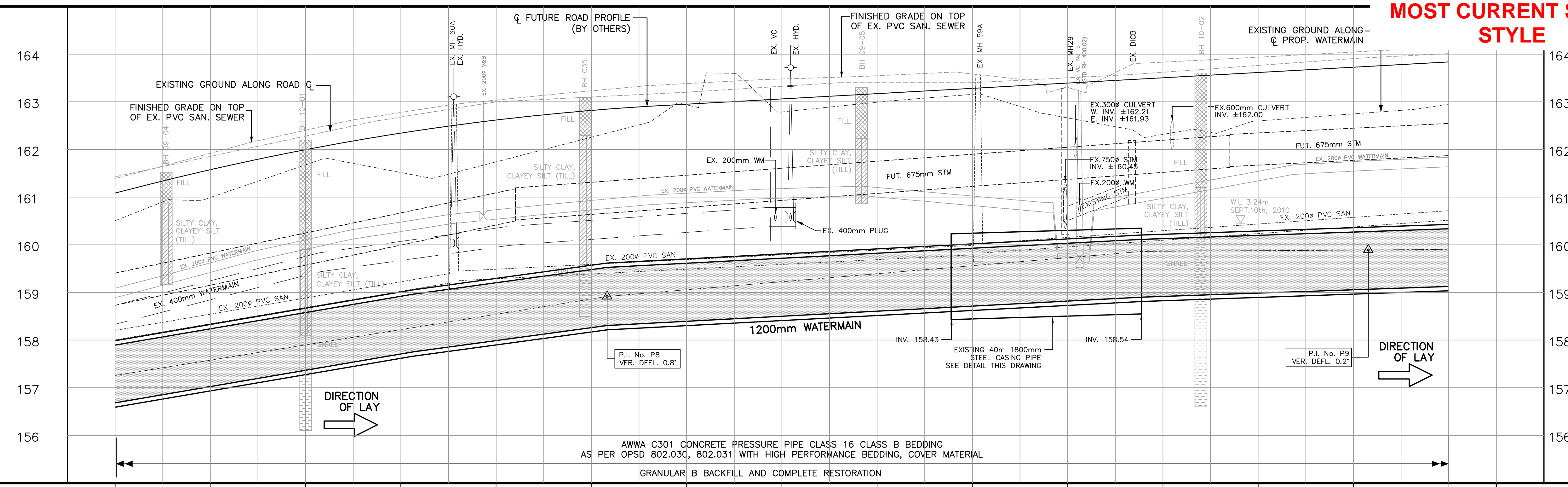
NOTE:
1. SEE INDEX SHEET FOR GENERAL NOTES.

AS CONSTRUCTED WATERMAIN DATA

PI No.	EASTING	NORTHING	DESCRIPTION
P8	601200.32	4813476.70	VERT. DEFL. 0.8'
P9	601086.52	4813588.86	VERT. DEFL. 0.2'

HORIZONTAL REFERENCE POINTS C/L WM

HR#	EASTING	NORTHING	DESCRIPTION
6	601272.96	4813405.05	TOP OF PIPE
7	601229.50	4813447.86	TOP OF PIPE
8	601181.74	4813495.05	TOP OF PIPE
9	601120.37	4813555.27	TOP OF PIPE



NO	Date	By	REVISIONS	MANU CAD
1	MAR 2014	P.B.	AS CONSTRUCTED	
Design	WYC	Ch'kd	J.S.	Date
Drawn	10-12	Ch'kd	WYC	FEBRUARY 2011

Scale
1:500 Horiz. $\frac{10}{1}$ $\frac{5}{1}$ $\frac{0}{1}$ $\frac{10}{1}$
1:50 Vert. $\frac{1}{1}$ $\frac{0.5}{1}$ $\frac{0}{1}$ $\frac{1}{1}$

Regional
ACCEPTED FOR CONSTRUCTION OF REGIONAL INFRASTRUCTURE
Reviewed For Compliance With Regional Standards Only.

Field Notes
REGION BOOK

Stamp
LICENSED PROFESSIONAL ENGINEER
M. S. RUPRAI
10317174
PROVINCE OF ONTARIO

Director
Manager

MMM GROUP
100 Commerce Valley Dr. West, Thornhill, ON Canada L3T 0A1
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Halton REGION

WATERMAIN INSTALLATION ON NEYAGAWA BLVD. & BURNHAMTHORPE ROAD
NEYAGAWA BOULEVARD
FROM 305m NORTH OF DUNDAS STREET TO 585m NORTH OF DUNDAS STREET
STA 0+320 TO STA 0+600
TOWN OF OAKVILLE

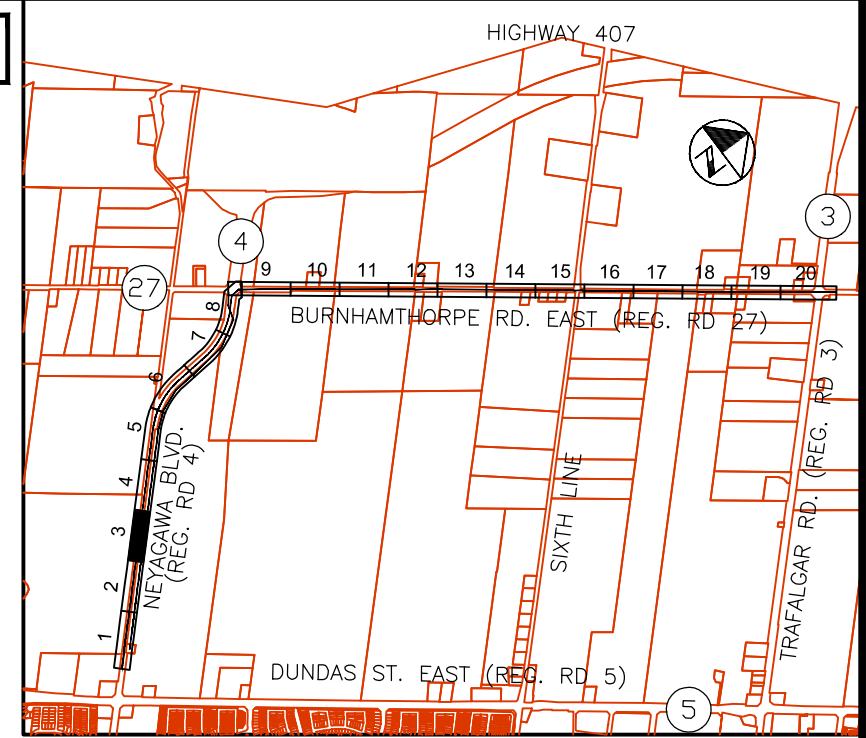
Consultant File NO 10-08093 Regional Drawing NO
CONTRACT NO W-2631-11 Drawing NO SHEET 2 OF 31

STATIONS	AS CONSTRUCTED WATERMAIN INVERTS	EX. ROAD C ELEVATIONS
0+320	156.43	161.43
0+340	156.43	161.85
0+360	156.43	162.28
0+380	156.43	162.68
0+400	156.43	163.00
0+420	156.43	163.10
0+440	156.43	163.20
0+460	156.43	163.33
0+480	156.43	163.40
0+500	156.43	163.40
0+520	156.43	163.50
0+540	156.43	163.62
0+560	156.43	163.76
0+580	156.43	163.91
0+600	156.43	164.01

93.4m @ 1.69%
157.75
40.0m @ 1.40%
156.31
112.0m @ 0.53%
156.90
64.0m @ 0.11%
156.97

W-2631-11 2 of 31
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UTM NAD 83, ZONE 17



KEY PLAN
N.T.S.

NOTE:
1. SEE INDEX SHEET FOR GENERAL NOTES.

AS CONSTRUCTED 1200Ø WATERMAIN DATA

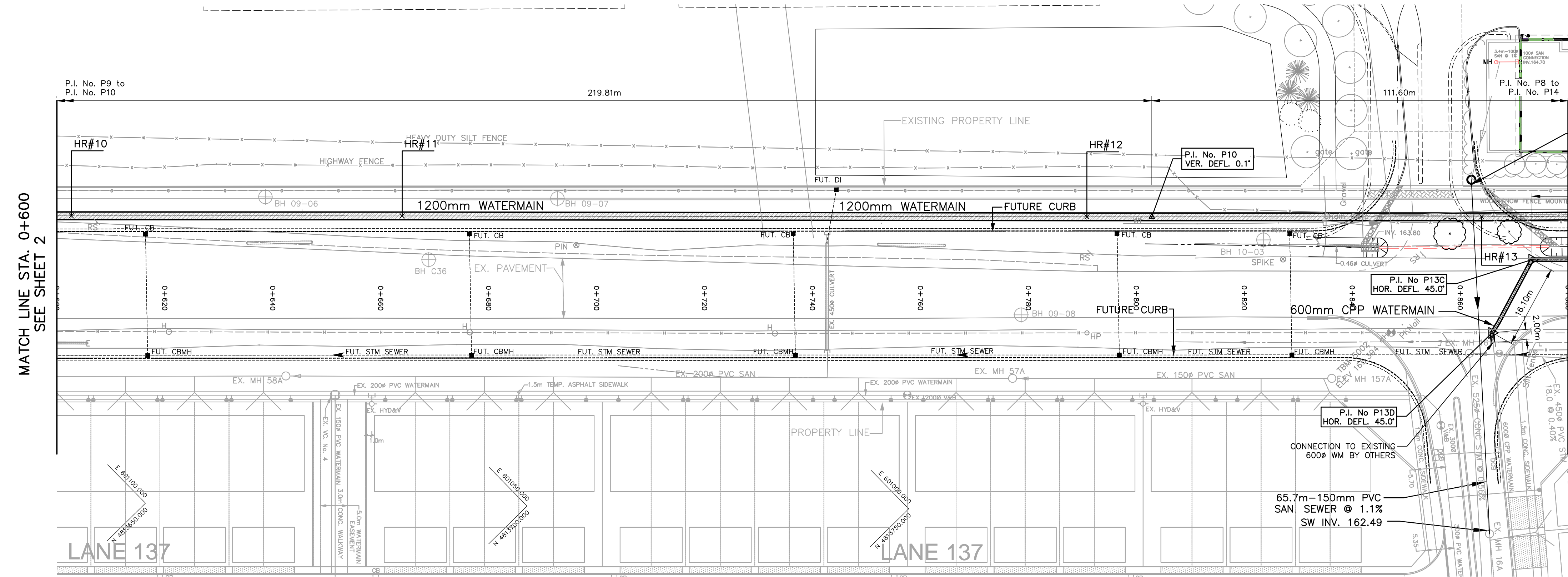
PI No.	EASTING	NORTHING	DESCRIPTION
P10	600930.00	4813743.11	VERT. DEFL. 0.10'

HORIZONTAL REFERENCE POINTS C/L WM

HR#	EASTING	NORTHING	DESCRIPTION
10	601072.43	4813602.48	TOP OF PIPE
11	601028.80	4813645.50	TOP OF PIPE
12	600938.56	4813734.68	TOP OF PIPE
13	600886.47	4813786.02	TOP OF PIPE

ELEVATIONS AND DIMENSIONS ARE FOR REFERENCE ONLY AND MUST BE CONFIRMED PRIOR TO USE FOR DESIGN, LAY-OUT OR CONSTRUCTION PURPOSES.

AS CONSTRUCTED INFORMATION SUPPLIED BY CONKER CONSTRUCTION CORPORATION DATED APRIL 24, 2012

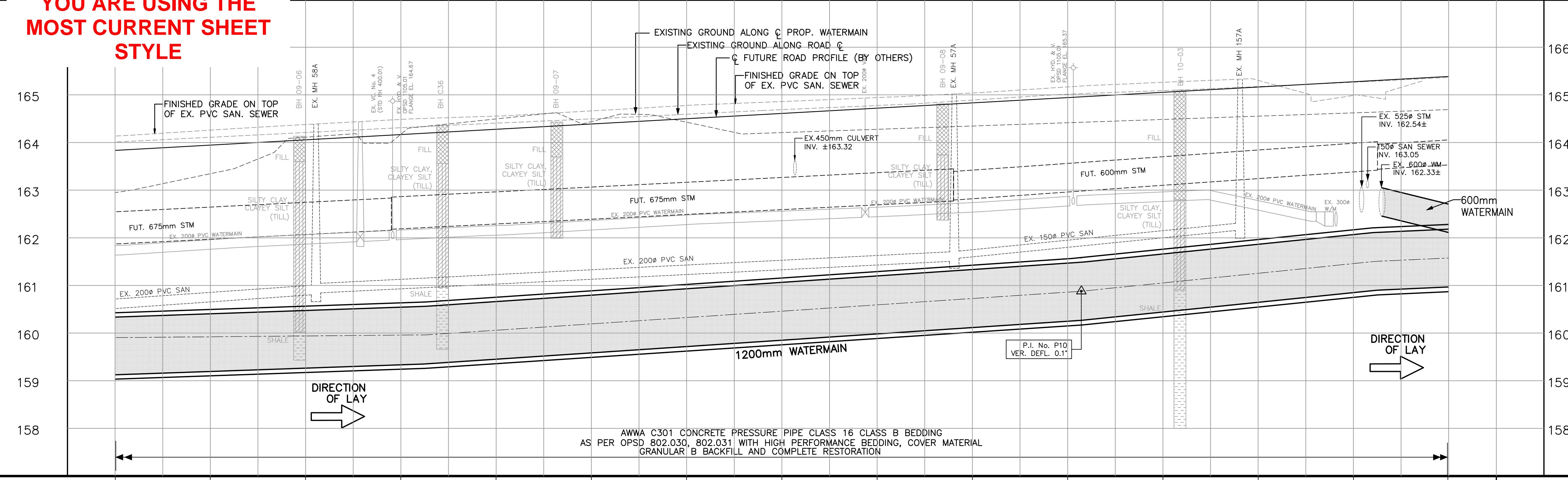


NEYAGAWA BOULEVARD (REG. RD. 4)

AS CONSTRUCTED 600Ø WATERMAIN DATA

PI No.	EASTING	NORTHING	DESCRIPTION
P13C	600885.39	4813798.21	HOR. DEFL. 45.0'
P13D	600900.18	4813802.66	HOR. DEFL. 45.0'
CONNECTION	BY OTHERS		CLOSURE PIECE

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STYLE**



NO	Date	By	AS CONSTRUCTED	REVISIONS	MANU	CAD
1	MAR 2014	P.B.	AS CONSTRUCTED			

Design WYC Ch'kd J.S. Date
Drawn 10-12 Ch'kd WYC FEBRUARY 2011

Scale
1:500 Horiz. 10 5 0 10
1:50 Vert. 1 0.5 0 1

Regional
ACCEPTED FOR CONSTRUCTION OF REGIONAL INFRASTRUCTURE
Reviewed For Compliance With Regional Standards Only.

Field Notes
REGION BOOK

Stamp
M.S. RUPRAI
PROVINCE OF ONTARIO

MMM GROUP
100 Commerce Valley Dr. West, Thornhill, ON Canada L3T 0A1
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Halton REGION

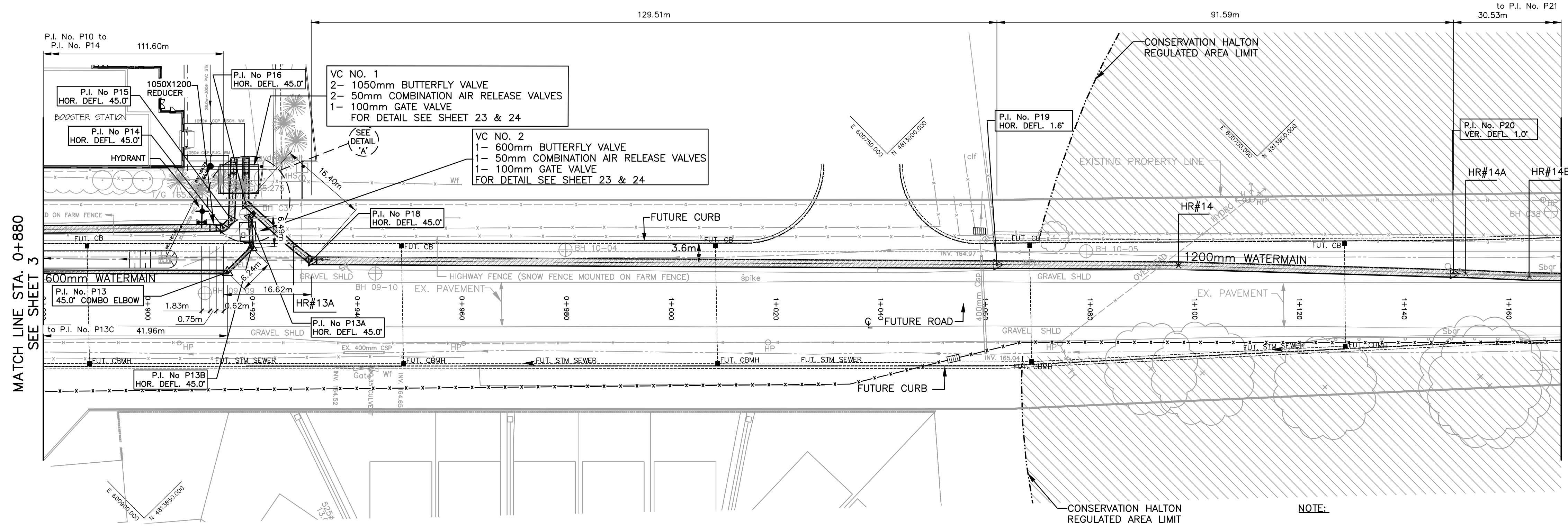
WATERMAIN INSTALLATION ON NEYAGAWA BLVD. & BURNHAMTHORPE ROAD
NEYAGAWA BOULEVARD
FROM 585m NORTH OF DUNDAS STREET TO 865m NORTH OF DUNDAS STREET
STA 0+600 TO STA 0+880
TOWN OF OAKVILLE

Consultant File NO 10-08093
Regional Drawing NO

CONTRACT NO W-2631-11
Drawing NO SHEET 3 of 31

W-2631-11 3 of 31

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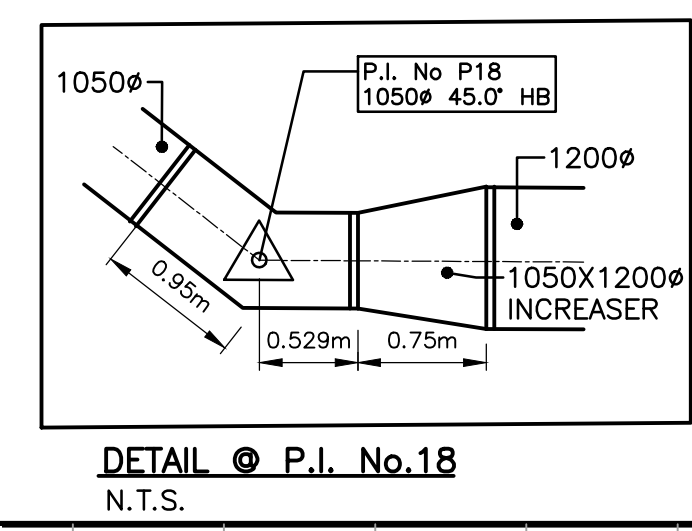
MATCH LINE STA. 0+880
SEE SHEET 3

MATCH LINE STA. 1+170
SEE SHEET 5

NEYAGAWA BOULEVARD (REG. RD. 4)

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AS CONSTRUCTED INFORMATION SUPPLIED BY CON-KER CONSTRUCTION CORPORATION DATED APRIL 24, 2012



AS CONSTRUCTED 600Ø WATERMAIN DATA

PI No.	EASTING	NORTHING	DESCRIPTION
P13	600854.16	4813817.36	600Ø HOR. DEFL. 45.0'
P13A	600845.22	4813823.23	600Ø HOR. DEFL. 45.0'
P13B	600849.07	4813827.62	600Ø HOR. DEFL. 45.0'

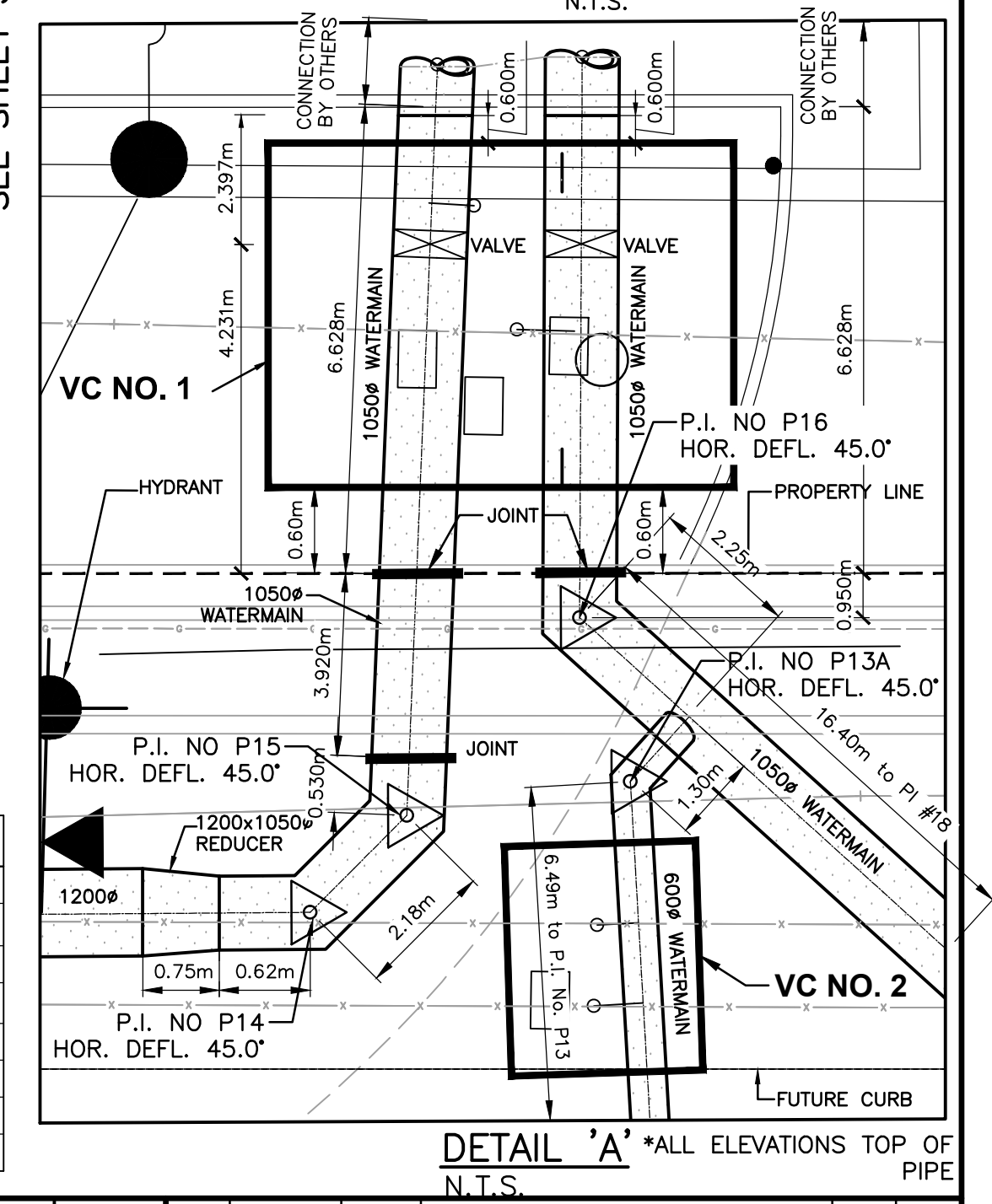
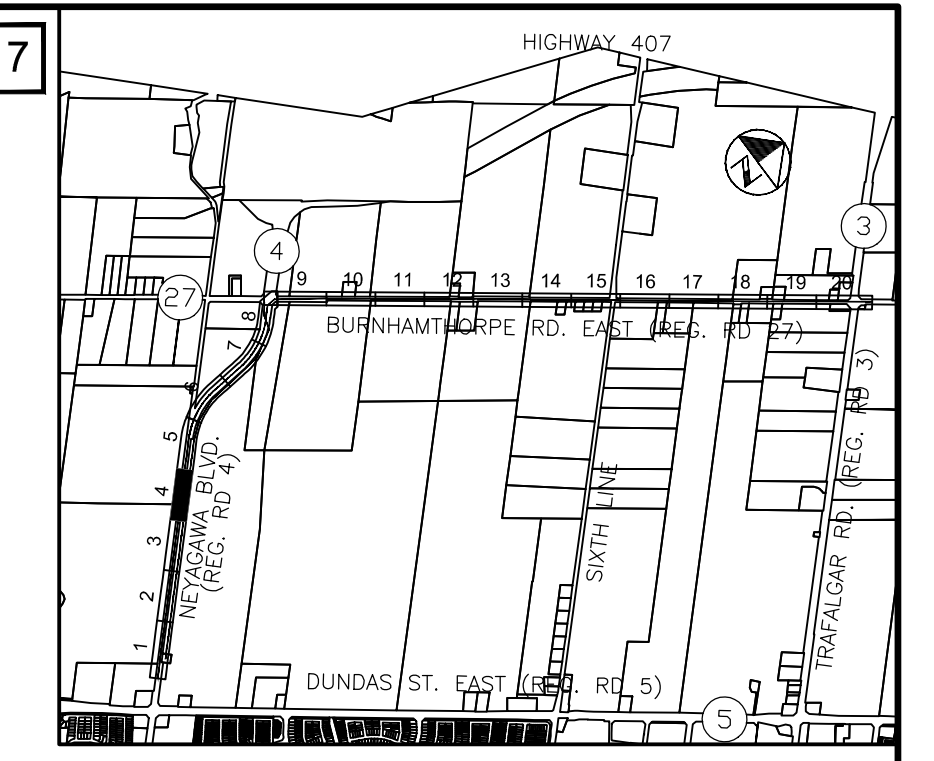
HORIZONTAL REFERENCE POINTS C/L WM

HR#	EASTING	NORTHING	DESCRIPTION
13A	600843.28	4813833.11	TOP OF PIPE
14	600725.38	4813954.33	TOP OF PIPE
14A	600687.40	4813993.99	TOP OF PIPE
14B	600679.13	4814002.84	TOP OF PIPE

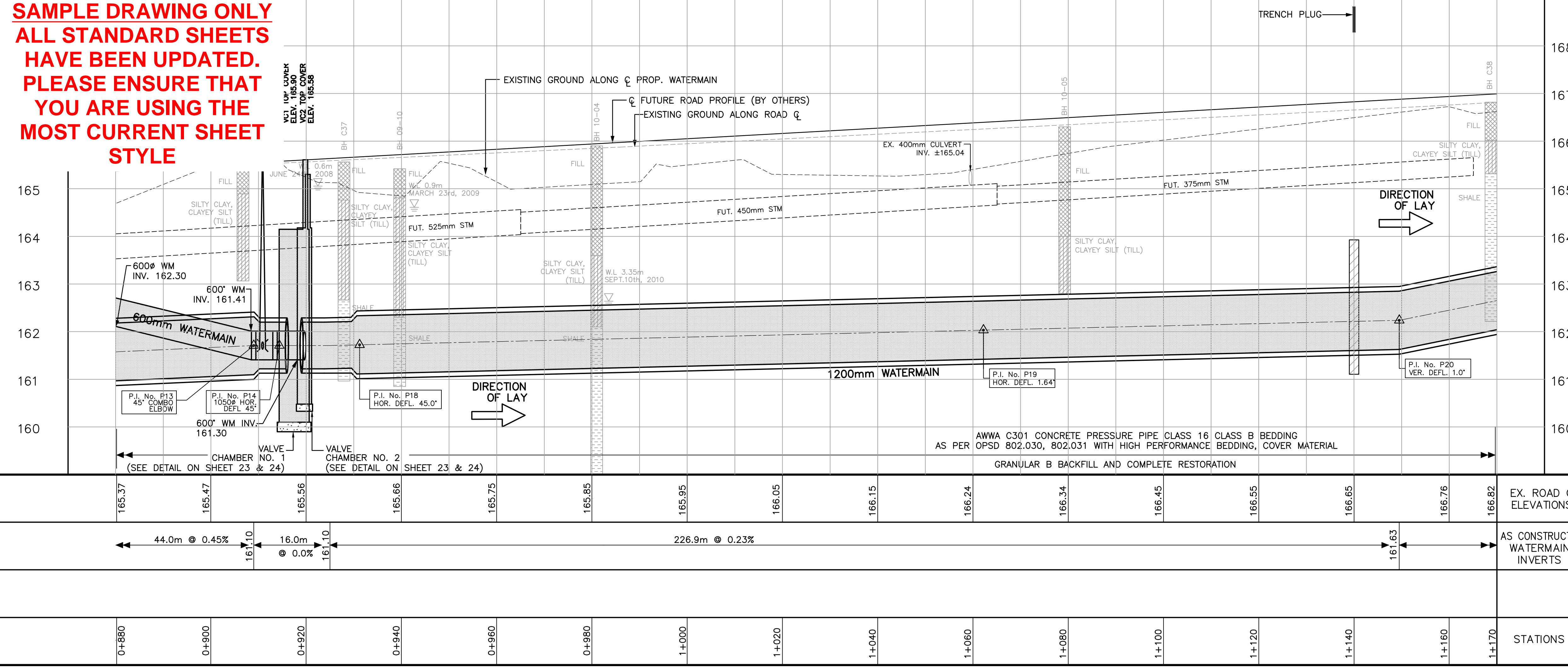
AS CONSTRUCTED 1050Ø AND 1200Ø WATERMAIN DATA

PI No.	EASTING	NORTHING	DESCRIPTION
P14	600850.24	4813821.17	1050Ø HOR. DEFL. 45'
P15	600848.09	4813821.15	1050Ø HOR. DEFL. 45'
P16	600843.99	4813820.84	1050Ø HOR. DEFL. 45'
P18	600842.72	4813837.39	1050x1200 INCREASER
P19	600749.94	4813929.86	1200Ø HOR. DEFL. 1.60'
P20	600689.02	4813992.29	1200Ø VERT. DEFL. 1.0'
VC#1 VENT.	600485.48	4813813.43	VC#1 VENT PIPE
HYDRANT V&BOX	600859.05	4813815.71	HYDRANT V&BOX

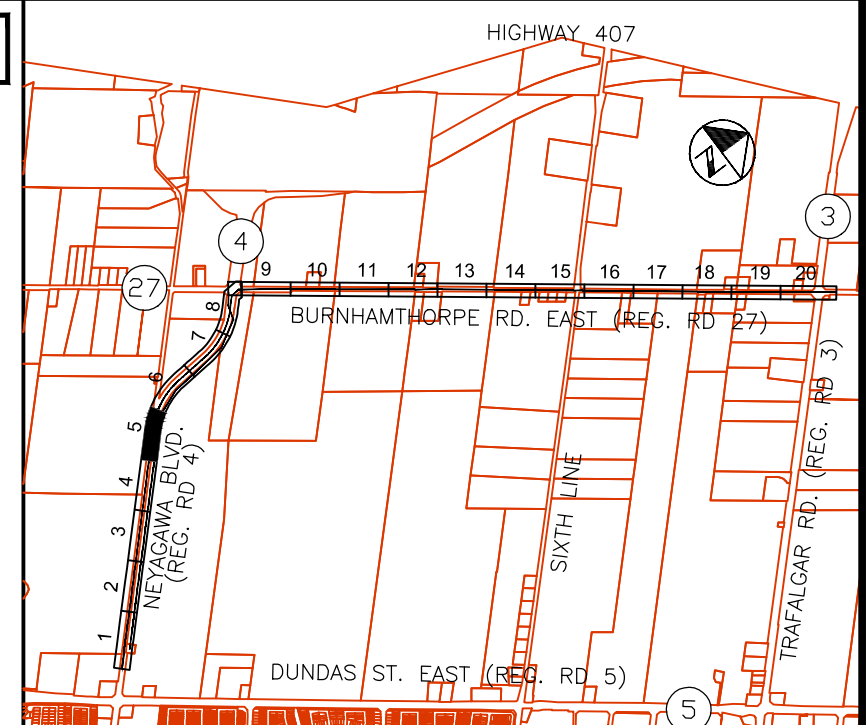
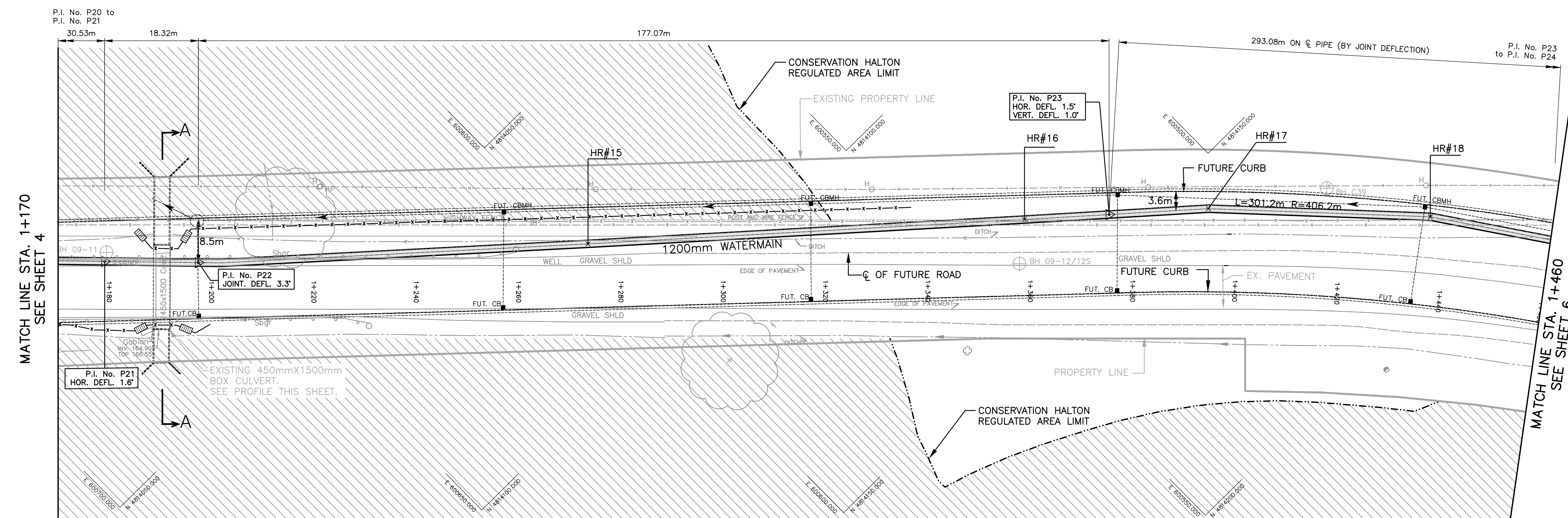
NOTE:
1. SEE INDEX SHEET FOR GENERAL NOTES.



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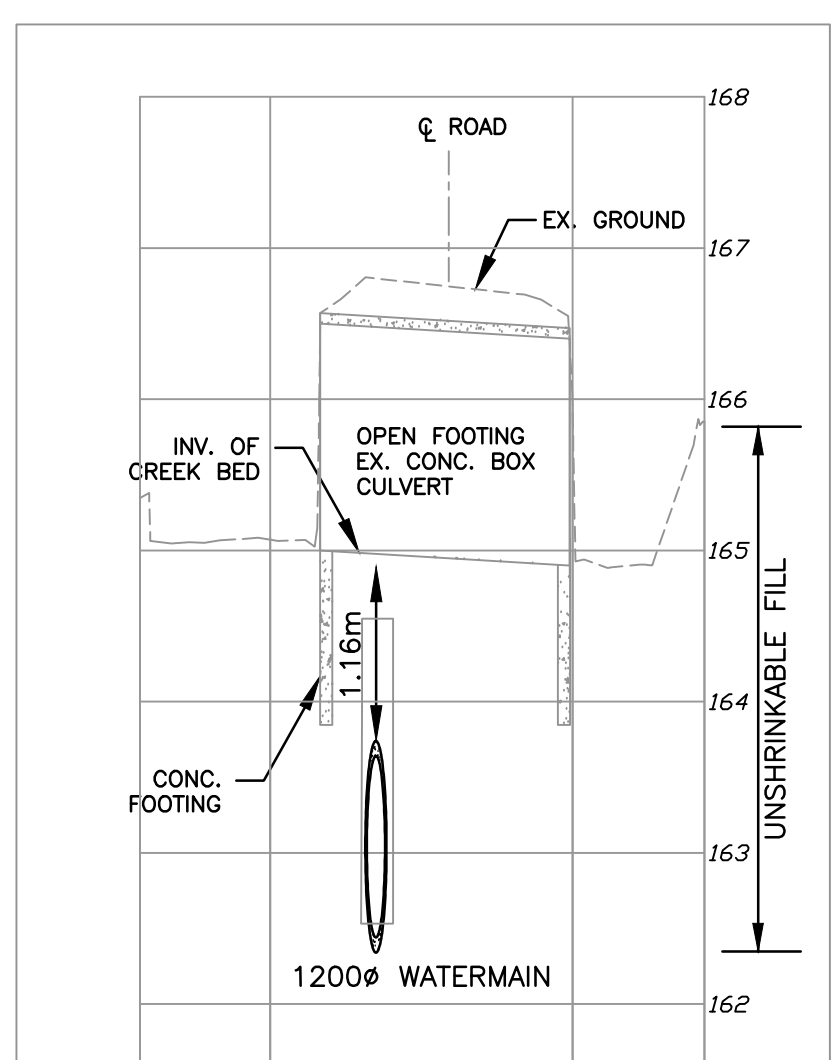


168					
167	1	MAR 2014	P.B.	AS CONSTRUCTED	
166	2			REVISIONS	MANU CAD
165	Design	WYC	Ch'kd	J.S.	Date
164	Drawn	10-12	Ch'kd	WYC	FEBRUARY 2011
163	Scale	1:500 Horiz.	10 5 0	References	
162		1:50 Vert.	0.5 0 1		
161	Regional	ACCEPTED FOR CONSTRUCTION OF REGIONAL INFRASTRUCTURE			Field Notes
160		Reviewed For Compliance With Regional Standards Only.			REGION BOOK
	Stamp				
	Director				
	Manager				
	WATERMAIN INSTALLATION ON NEYAGAWA BLVD. & BURNHAMTHORPE ROAD NEYAGAWA BOULEVARD FROM 865m NORTH OF DUNDAS STREET TO 1155m NORTH OF DUNDAS STREET STA 0+880 TO STA 1+170 TOWN OF OAKVILLE				
	Consultant File No	10-08093			Regional Drawing No
	CONTRACT No	W-2631-11			Drawing No
					SHEET 4 OF 31



KEY PLAN
N.T.S.

NOTE:
1. SEE INDEX SHEET FOR GENERAL NOTES.



NEYAGAWA BOULEVARD (REG. RD. 4)

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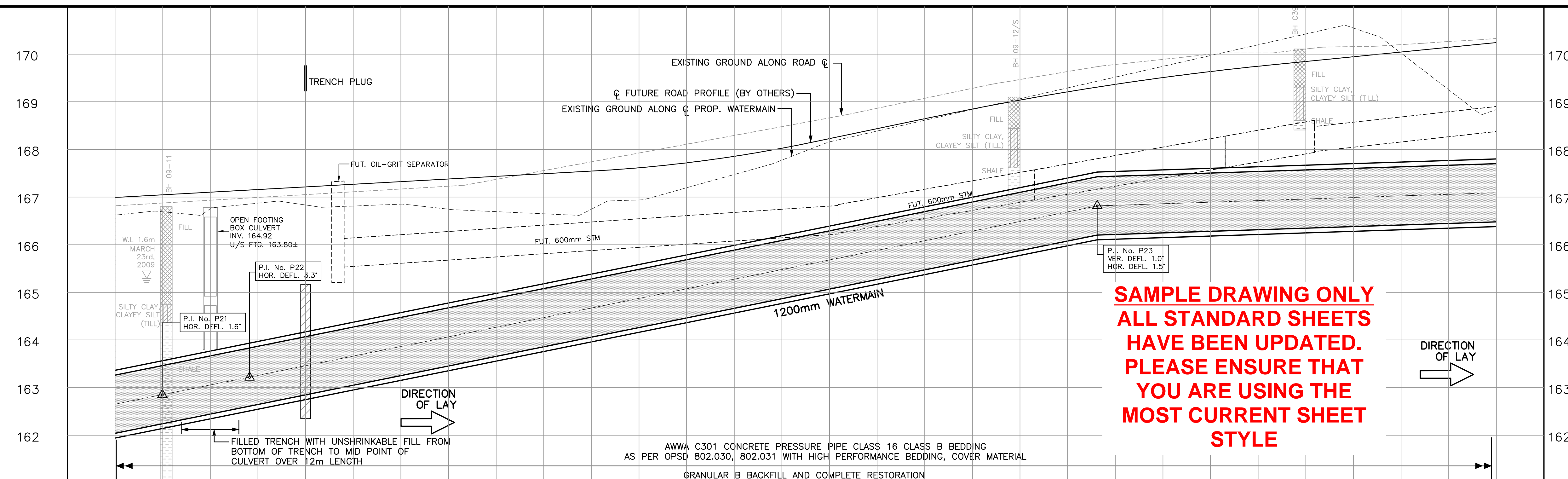
AS CONSTRUCTED INFORMATION SUPPLIED BY CON-KER CONSTRUCTION CORPORATION DATED APRIL 24, 2012

AS CONSTRUCTED WATERMAIN DATA

PI No.	EASTING	NORTHING	DESCRIPTION
P21	600668.57	4814013.87	HOR. DEFL. 1.6'
P22	600655.52	4814026.70	HOR. DEFL. 3.3'
P23	600522.17	4814144.96	JOINT DEFL. VERT. DEFL. 1.0' HOR. DEFL. 1.5'

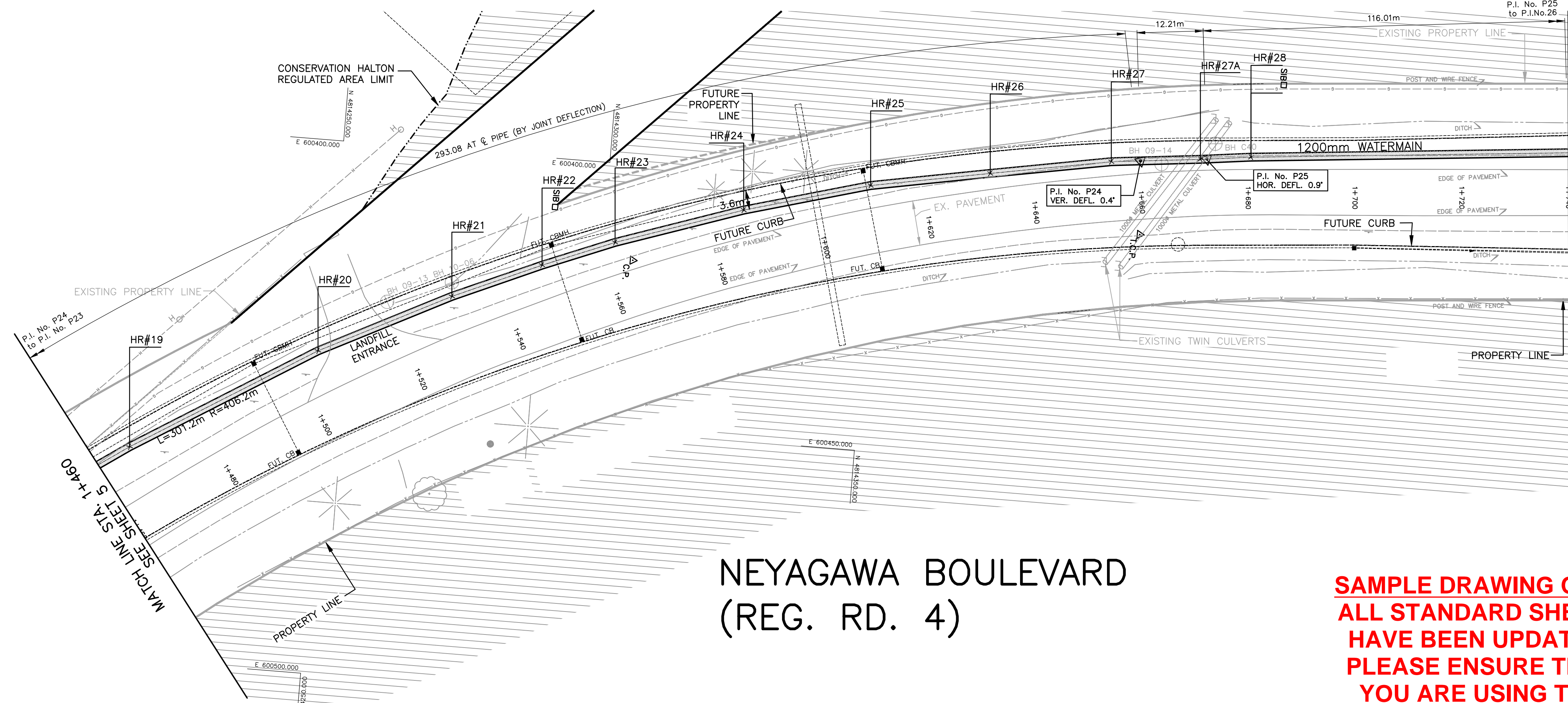
HORIZONTAL REFERENCE POINTS C/L WM

HR#	EASTING	NORTHING	DESCRIPTION
15	600598.72	4814077.55	TOP OF PIPE
16	600534.62	4814134.05	TOP OF PIPE
17	600507.56	4814157.75	TOP OF PIPE
18	600477.76	4814189.33	TOP OF PIPE

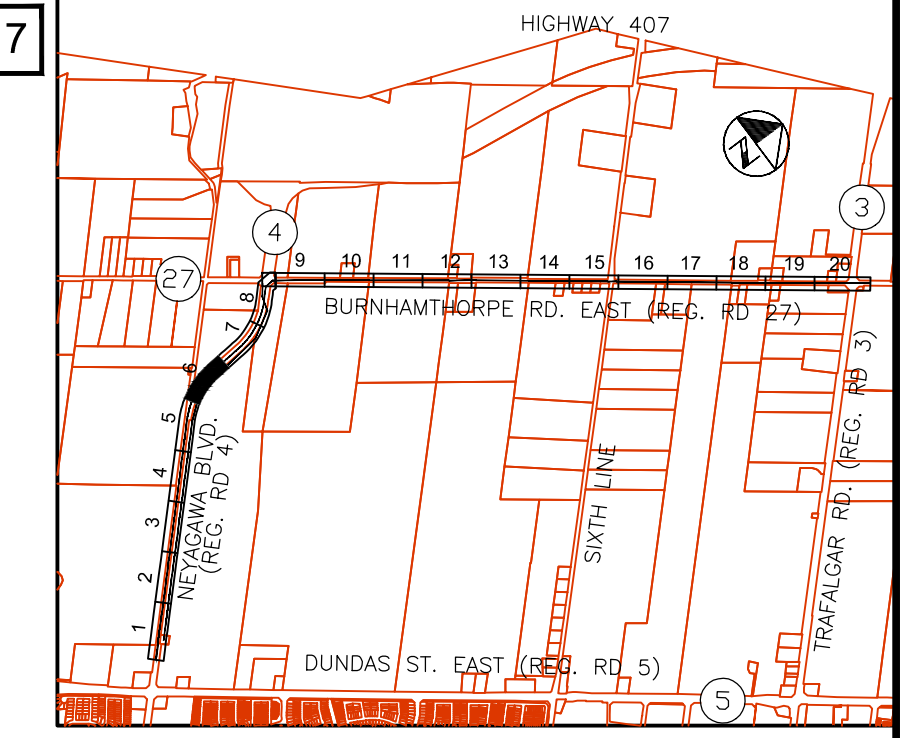
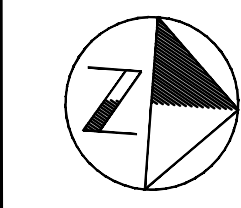


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1	MAR 2014	P.B.	AS CONSTRUCTED	MANU CAD
REVISIONS				
Design	WYC	Ch'kd	J.S.	Date
Drawn	10-12	Ch'kd	WYC	FEBRUARY 2011
Scale				References
1:500 Horiz.		10 5 0 10		
1:50 Vert.		1 0.5 0 1		
Regional				Field Notes
ACCEPTED FOR CONSTRUCTION OF REGIONAL INFRASTRUCTURE				REGION BOOK
Reviewed For Compliance With Regional Standards Only.				Stamp
Director				
Manager				
WATERMAIN INSTALLATION ON NEYAGAWA BLVD. & BURNHAMTHORPE ROAD NEYAGAWA BOULEVARD FROM 790m SOUTH OF BURNHAMTHORPE ROAD TO 1080m SOUTH OF BURNHAMTHORPE ROAD STA 1+170 TO STA 1+460 TOWN OF OAKVILLE				
Consultant File No		Regional Drawing No		
10-08093				
CONTRACT No		Drawing No		
W-2631-11		SHEET 5 OF 31		



MATCH LINE STA. 1+740
SEE SHEET 7



KEY PLAN
N.T.S.

NOTE:
1. SEE INDEX SHEET FOR GENERAL NOTES.
AS CONSTRUCTED WATERMAIN DATA

PI No.	EASTING	NORTHING	DESCRIPTION
P24	600391.66	4814399.11	VERT. DEFL. 0.4'
P25	600390.46	4814410.61	VERT. DEFL. 0.9'

HORIZONTAL REFERENCE POINTS C/L WM

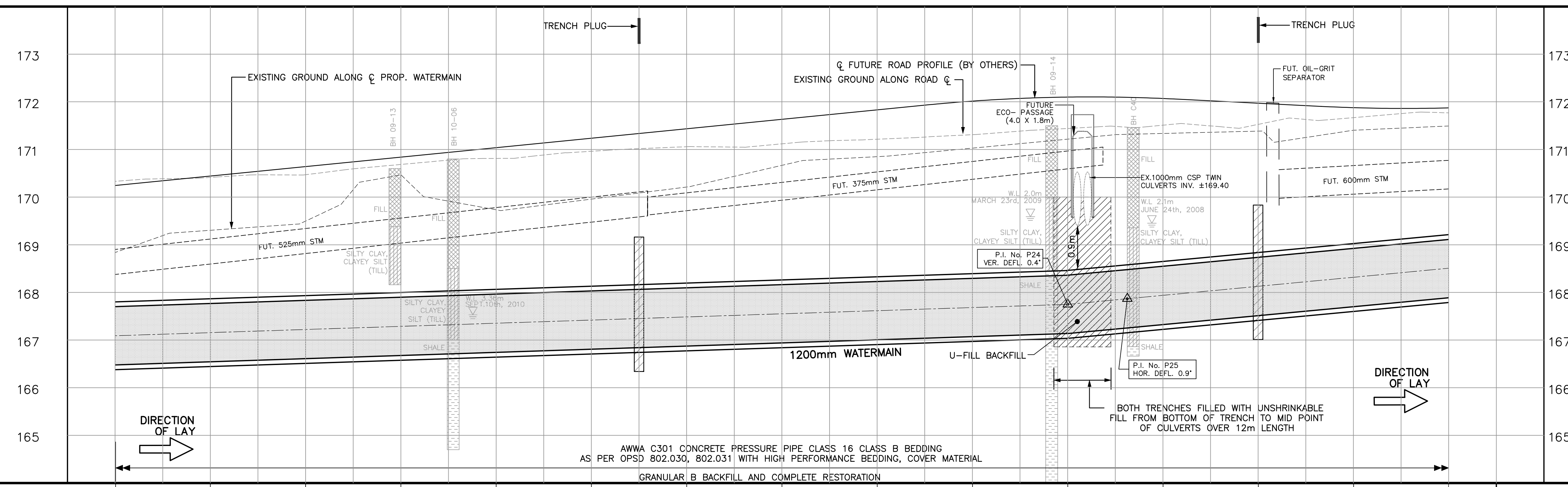
HR#	EASTING	NORTHING	DESCRIPTION
19	600460.33	4814214.65	TOP OF PIPE
20	600439.56	4814248.38	TOP OF PIPE
21	600427.38	4814272.54	TOP OF PIPE
22	600420.19	4814288.90	TOP OF PIPE
23	600414.83	4814302.20	TOP OF PIPE
24	600406.86	4814325.70	TOP OF PIPE
25	600400.35	4814349.02	TOP OF PIPE
26	600396.27	4814371.16	TOP OF PIPE
27	600392.25	4814393.58	TOP OF PIPE
27A	600390.48	4814410.17	TOP OF PIPE
28	600389.30	4814419.58	TOP OF PIPE

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STYLE**

NEYAGAWA BOULEVARD (REG. RD. 4)



NO	Date	By	REVISIONS	MANU CAD
1	MAR 2014	P.B.	AS CONSTRUCTED	

Design WYC Ch'kd J.S. Date
 Drawn 10-12 Ch'kd WYC FEBRUARY 2011

Scale: 1:500 Horiz. 10 5 0 10
 1:50 Vert. 1 0.5 0 1

Regional: ACCEPTED FOR CONSTRUCTION OF REGIONAL INFRASTRUCTURE
 Reviewed For Compliance With Regional Standards Only.

Field Notes: REGION BOOK

Stamp: M.S. RUPRAI, PROFESSIONAL ENGINEER, PROVINCE OF ONTARIO

MMM GROUP
 100 Commerce Valley Dr. West, Thornhill, ON Canada L3T 0A1
 T: 905-882-1100 F: 905-882-0025 www.mmm.ca

Halton REGION

WATERMAIN INSTALLATION ON NEYAGAWA BLVD. & BURNHAMTHORPE ROAD
 NEYAGAWA BOULEVARD
 FROM 510m SOUTH OF BURNHAMTHORPE ROAD TO 790m SOUTH OF BURNHAMTHORPE ROAD
 STA 1+460 TO STA 1+740
 TOWN OF OAKVILLE

Consultant File NO: 10-08093 Regional Drawing NO:
 CONTRACT NO: W-2631-11 Drawing NO: SHEET 6 OF 31

STATIONS	EX. ROAD C ELEVATIONS	AS CONSTRUCTED WATERMAIN INVERTS
1+460	170.33	167.14
1+480	170.41	167.17
1+500	170.47	167.17
1+520	170.69	167.17
1+540	170.81	167.17
1+560	170.96	167.17
1+580	171.06	167.17
1+600	171.12	167.17
1+620	171.21	167.17
1+640	171.31	167.17
1+660	171.44	167.17
1+680	171.51	167.17
1+700	171.53	167.17
1+720	171.67	167.17
1+740	171.77	167.17

288.8m @ 0.32%
 12.2m @ 0.25%
 140.2m @ 1.05%