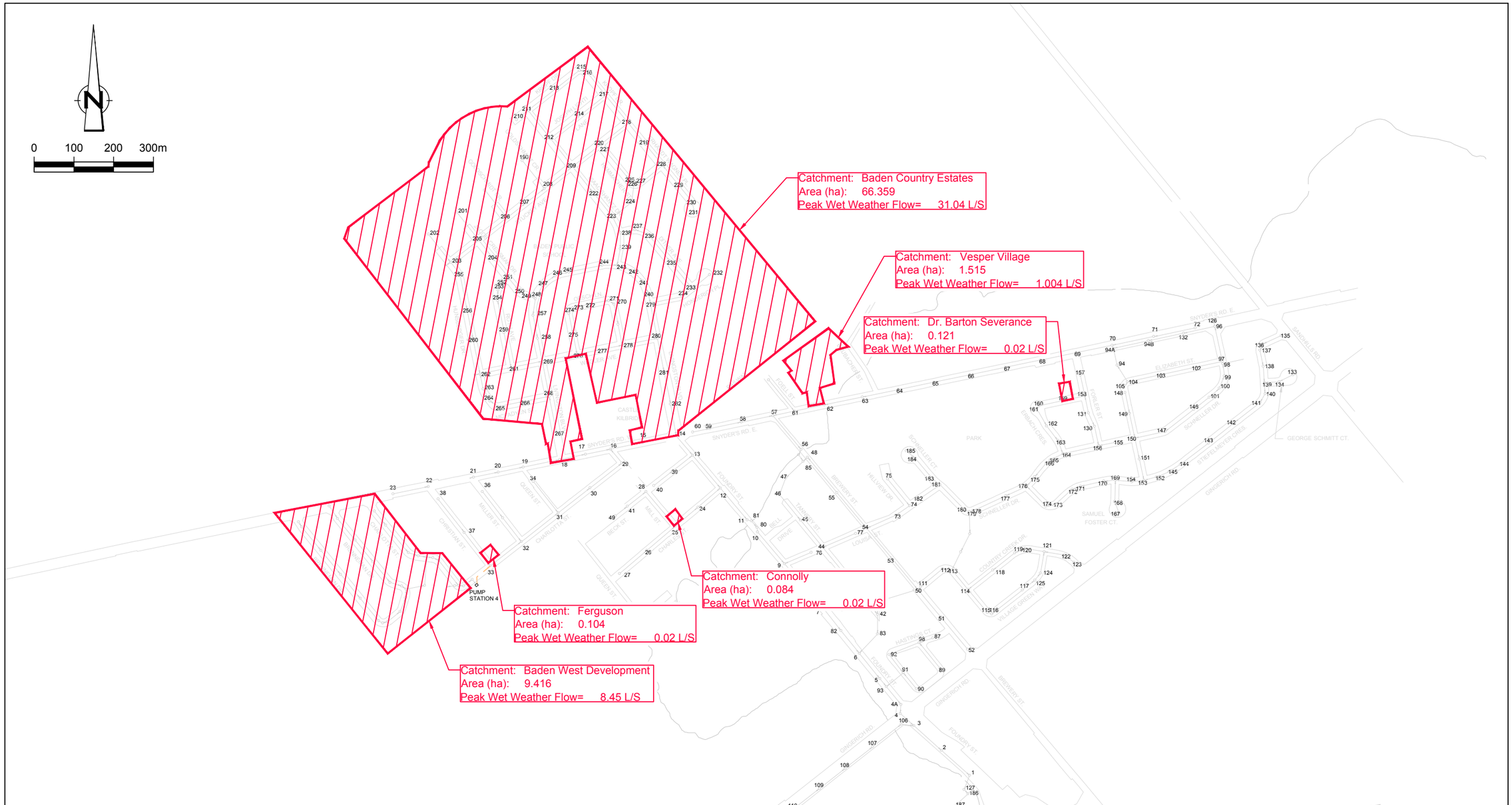

Figure 1-1 Baden 2012 New Development Areas

Wastewater Servicing Study for New Growth Areas in Baden and New Hamburg

Township of Wilmot

78251-10(MEMO001)GN-WA001 DEC 03/2012

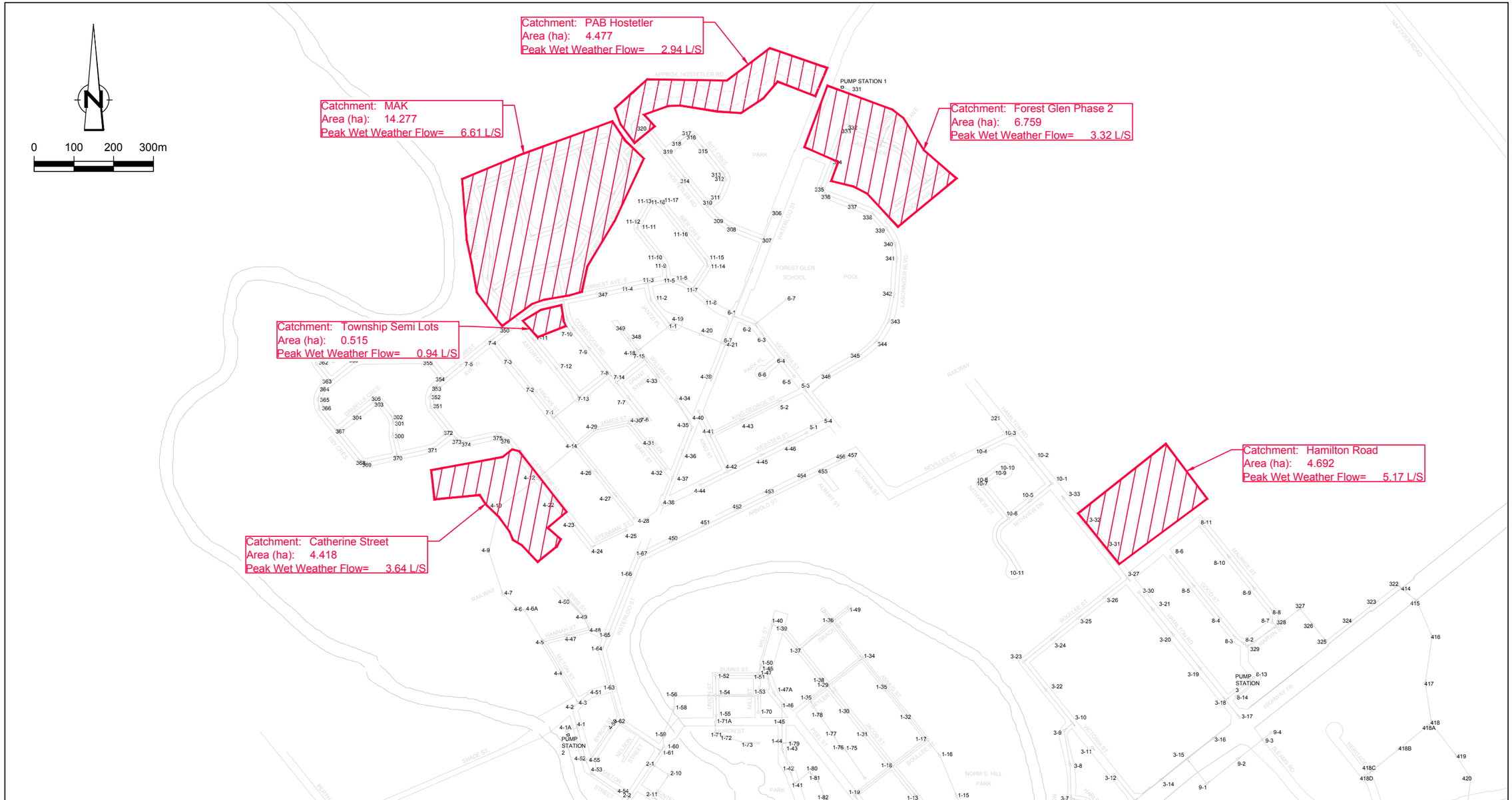

Figure 1-2 New Hamburg 2012 New Development Areas (1 of 2)

Wastewater Servicing Study for New Growth Areas in Baden and New Hamburg

Township of Wilmot

78251-10(MEMO001)GN-WA001 DEC 03/2012

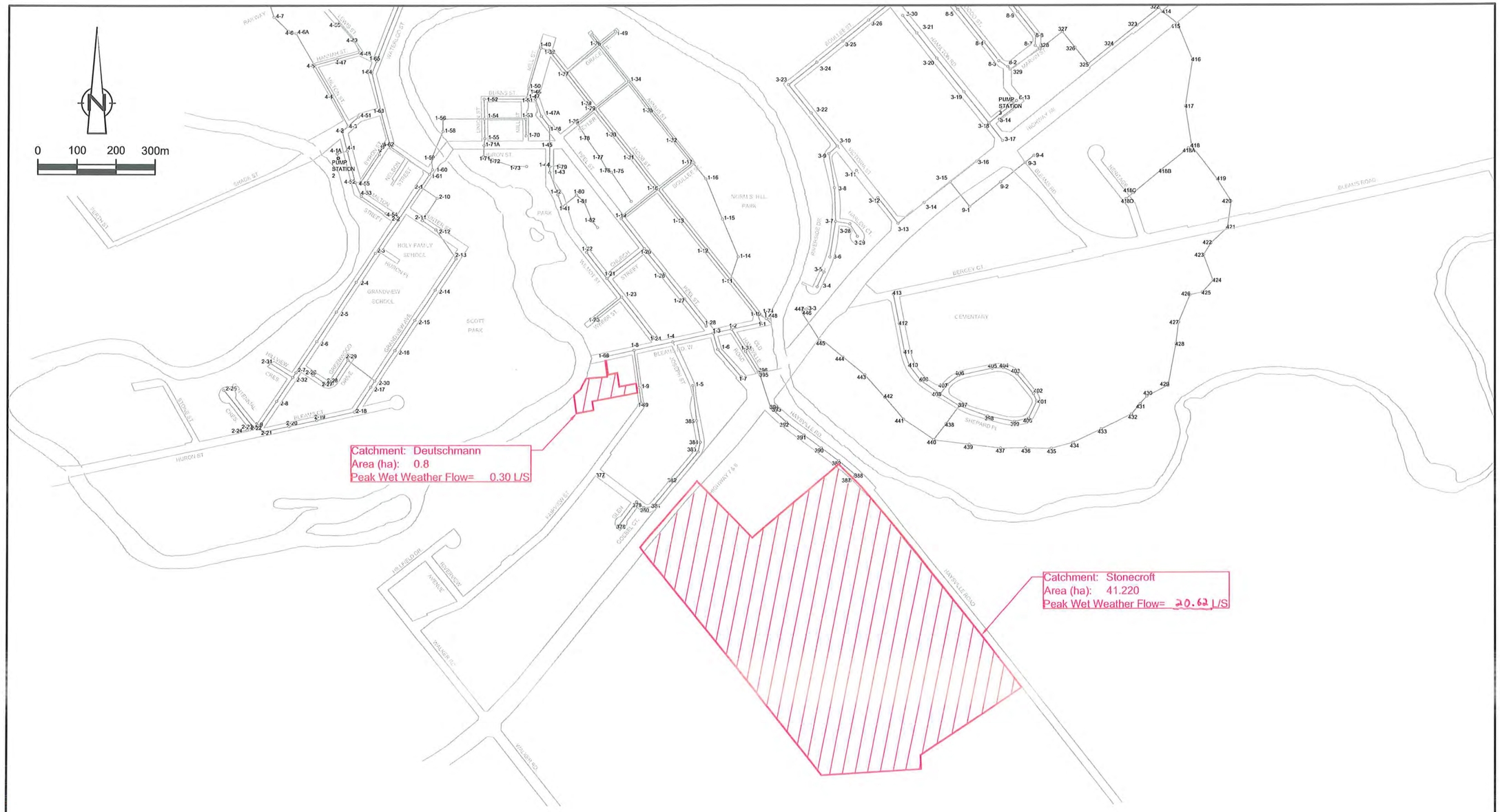

Figure 1-3 New Hamburg 2012 New Development Areas (2 of 2)

Wastewater Servicing Study for New Growth Areas in Baden and New Hamburg

Township of Wilmot

78251-10(MEMO001)GN-WA001 FEB 11/2013

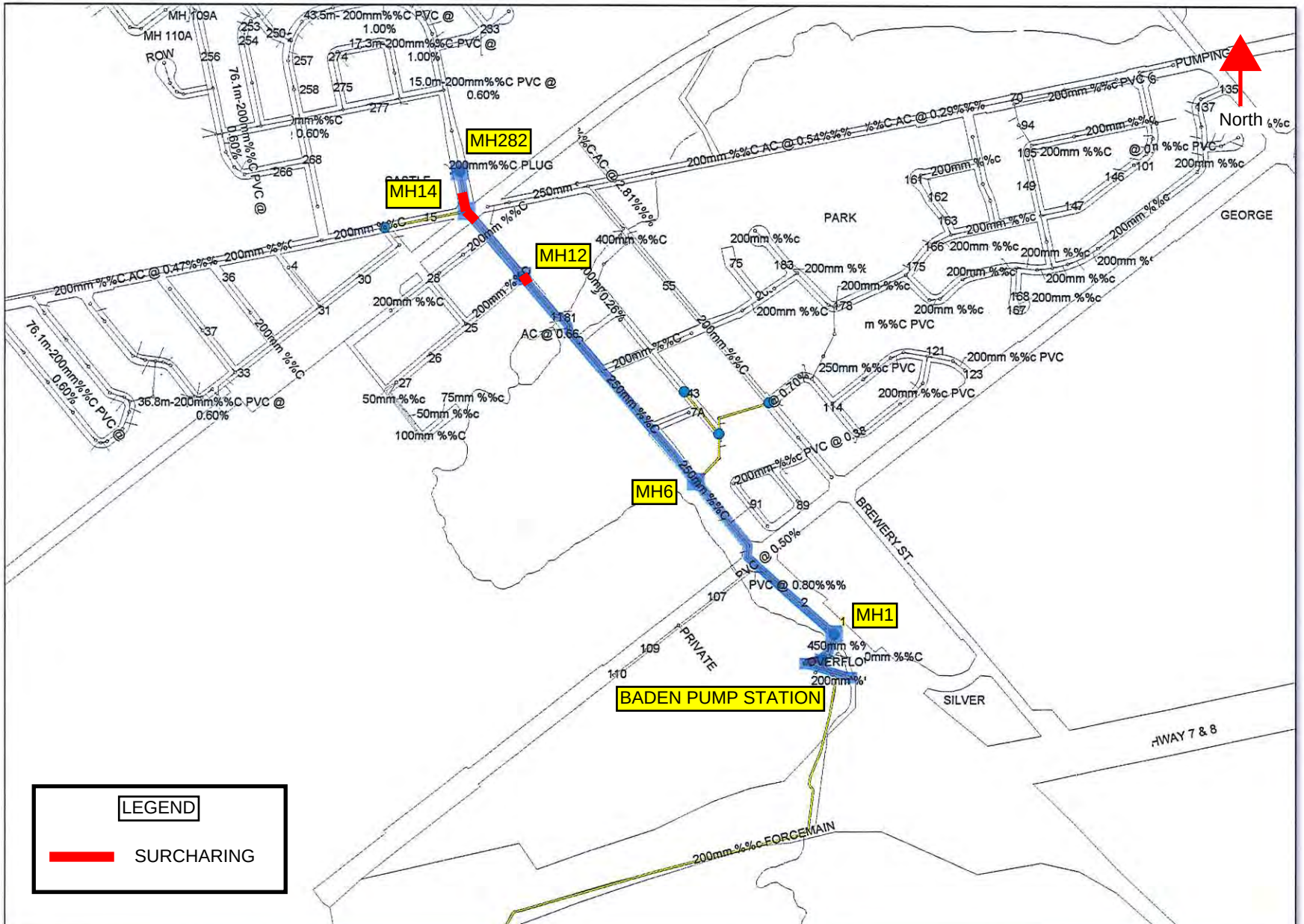

Figure 2-1A Flow Analysis 2012 Conditions Baden - Foundry Street (Plan)

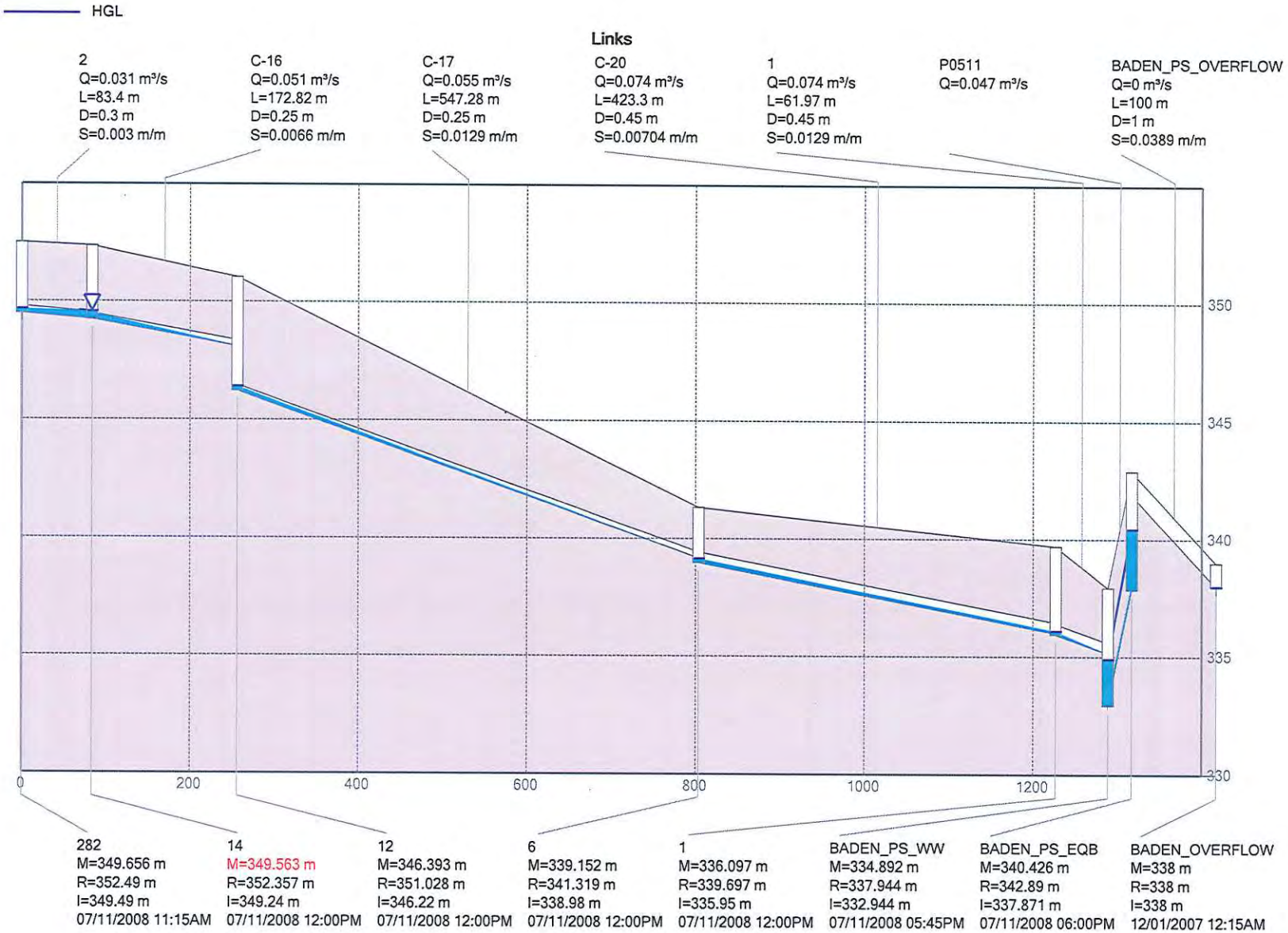

Figure 2-1B Flow Analysis 2012 Conditions Baden - Foundry Street (Profile)

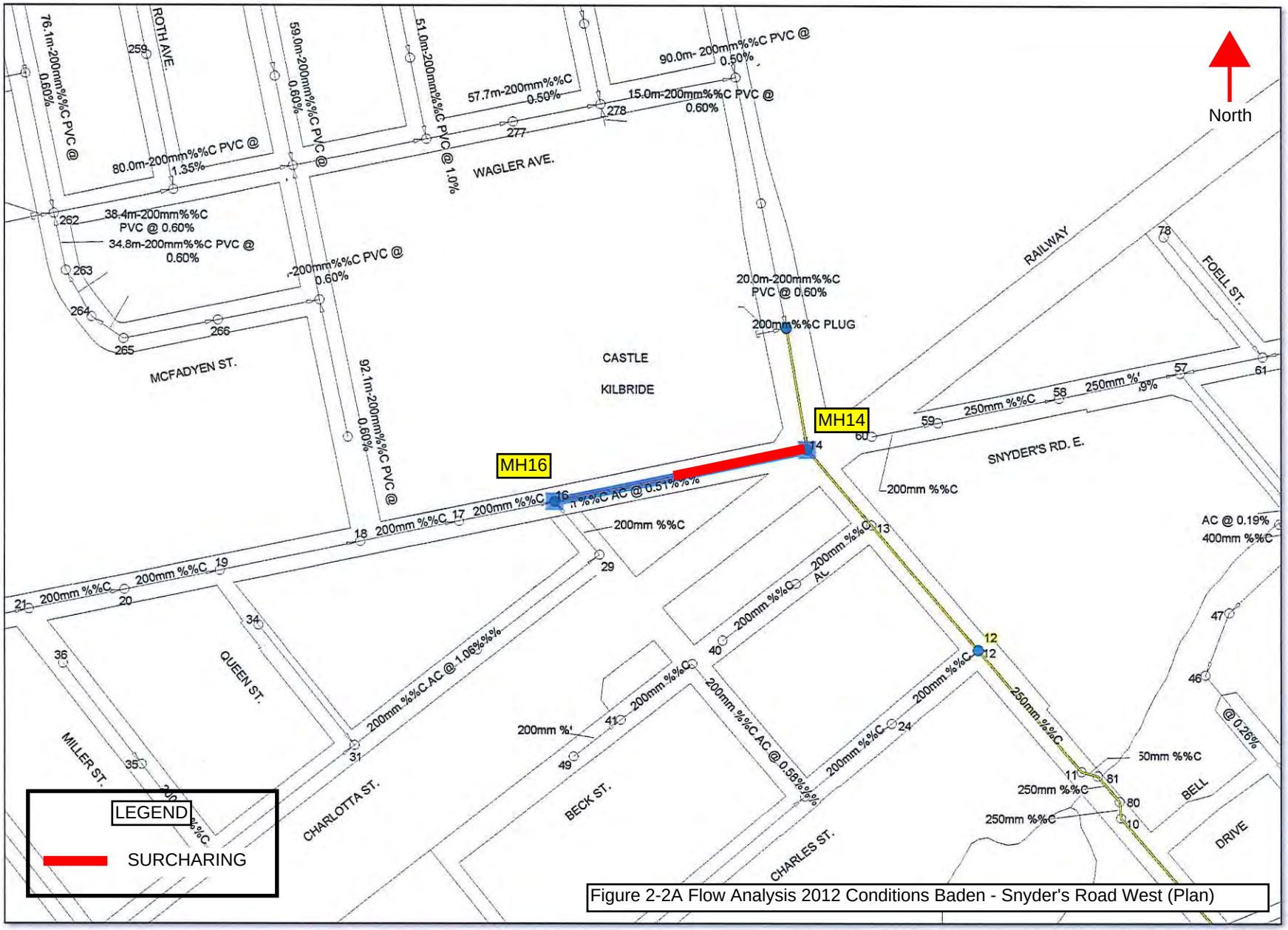

Figure 2-2A Flow Analysis 2012 Conditions Baden - Snyder's Road West (Plan)

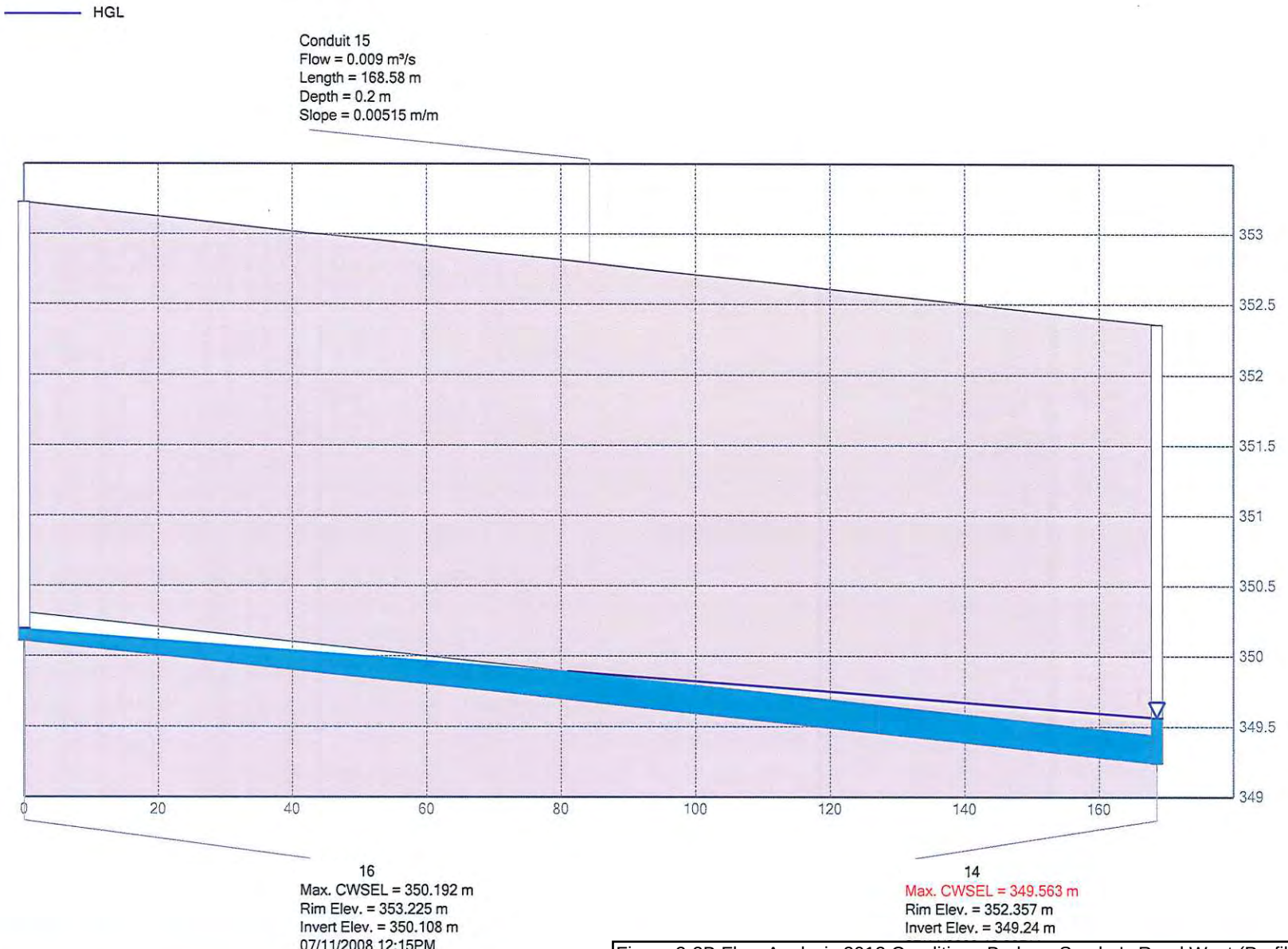

Figure 2-2B Flow Analysis 2012 Conditions Baden - Snyder's Road West (Profile)

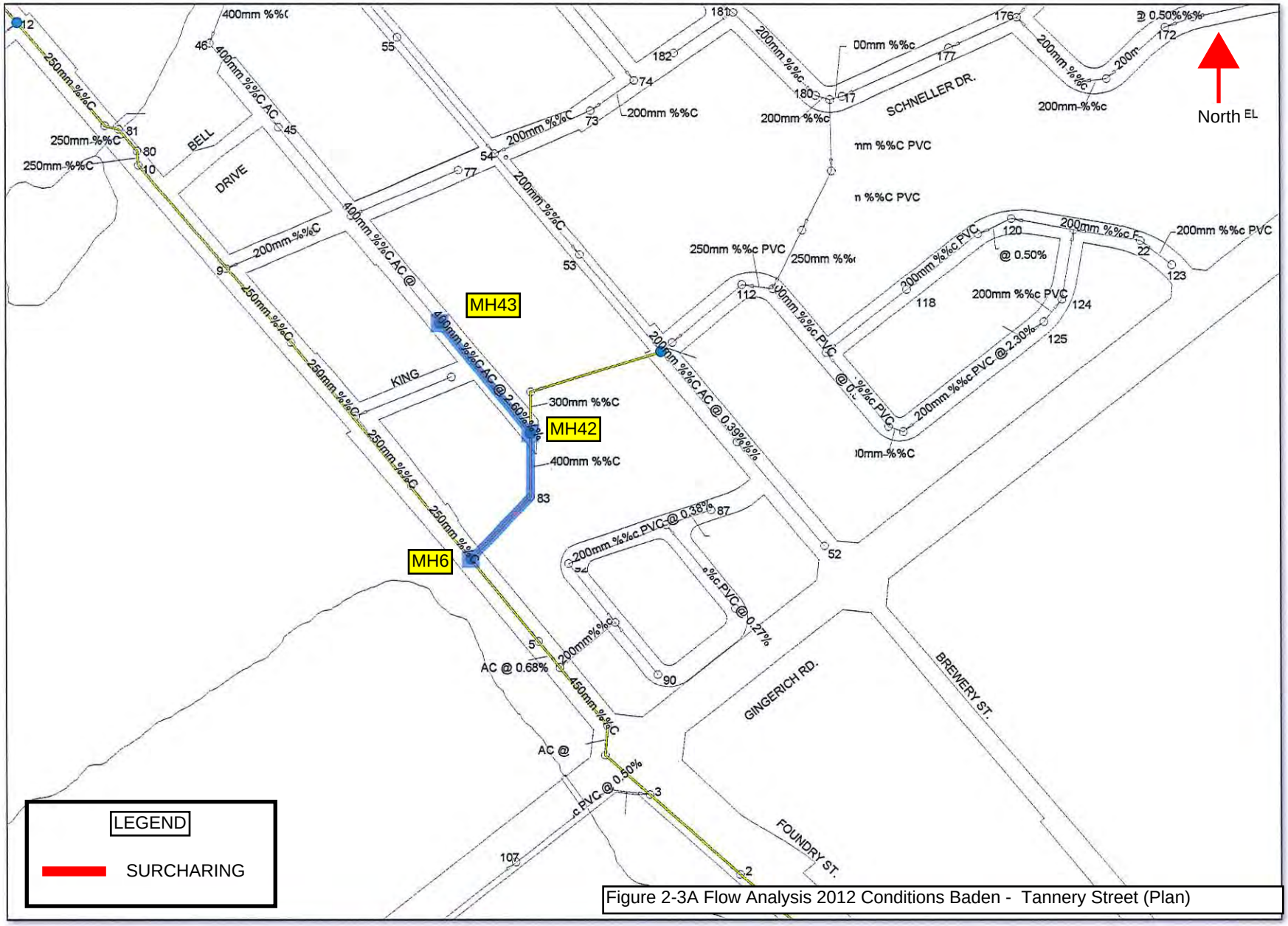

Figure 2-3A Flow Analysis 2012 Conditions Baden - Tannery Street (Plan)

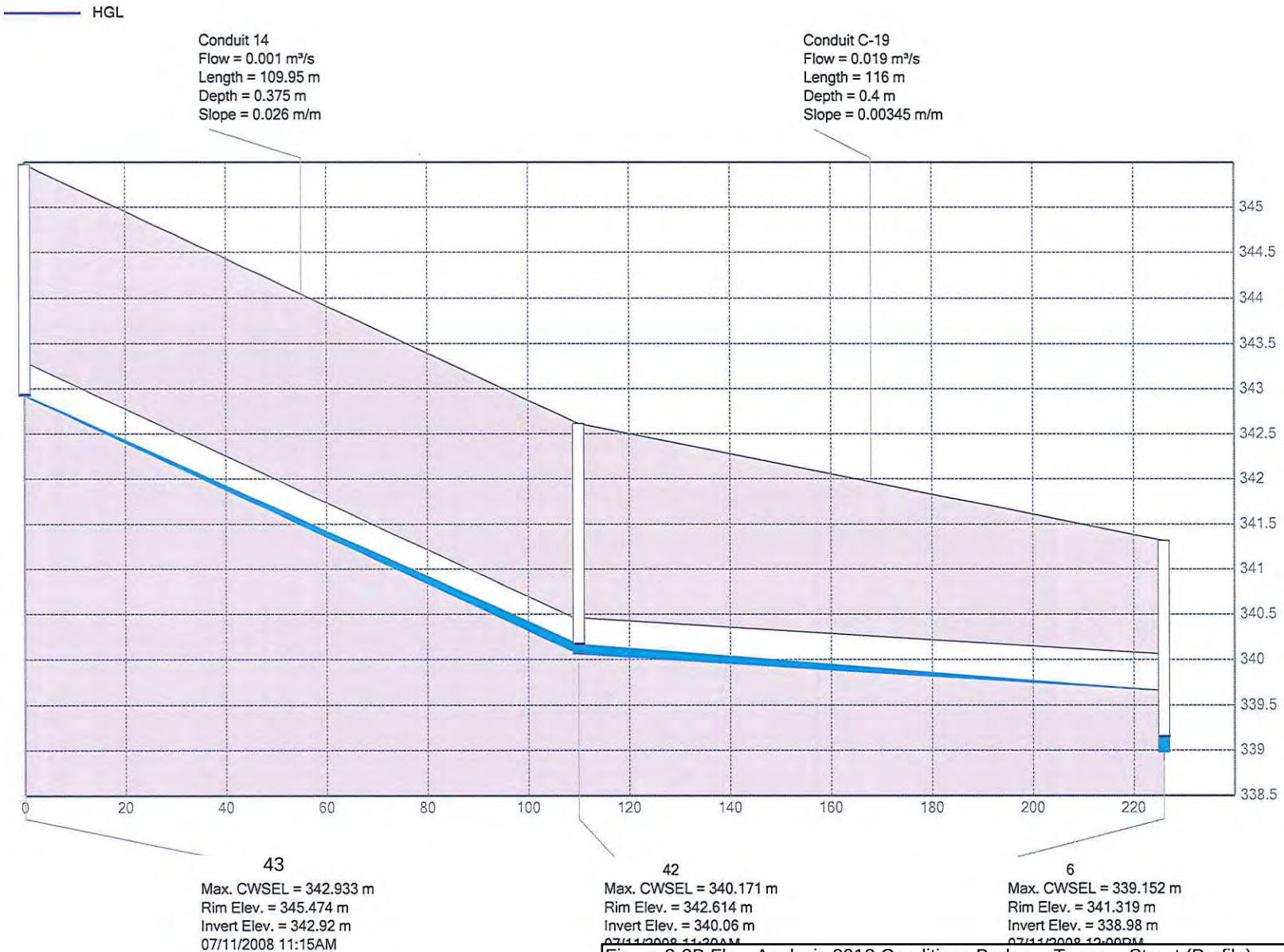

Figure 2-3B Flow Analysis 2012 Conditions Baden - Tannery Street (Profile)

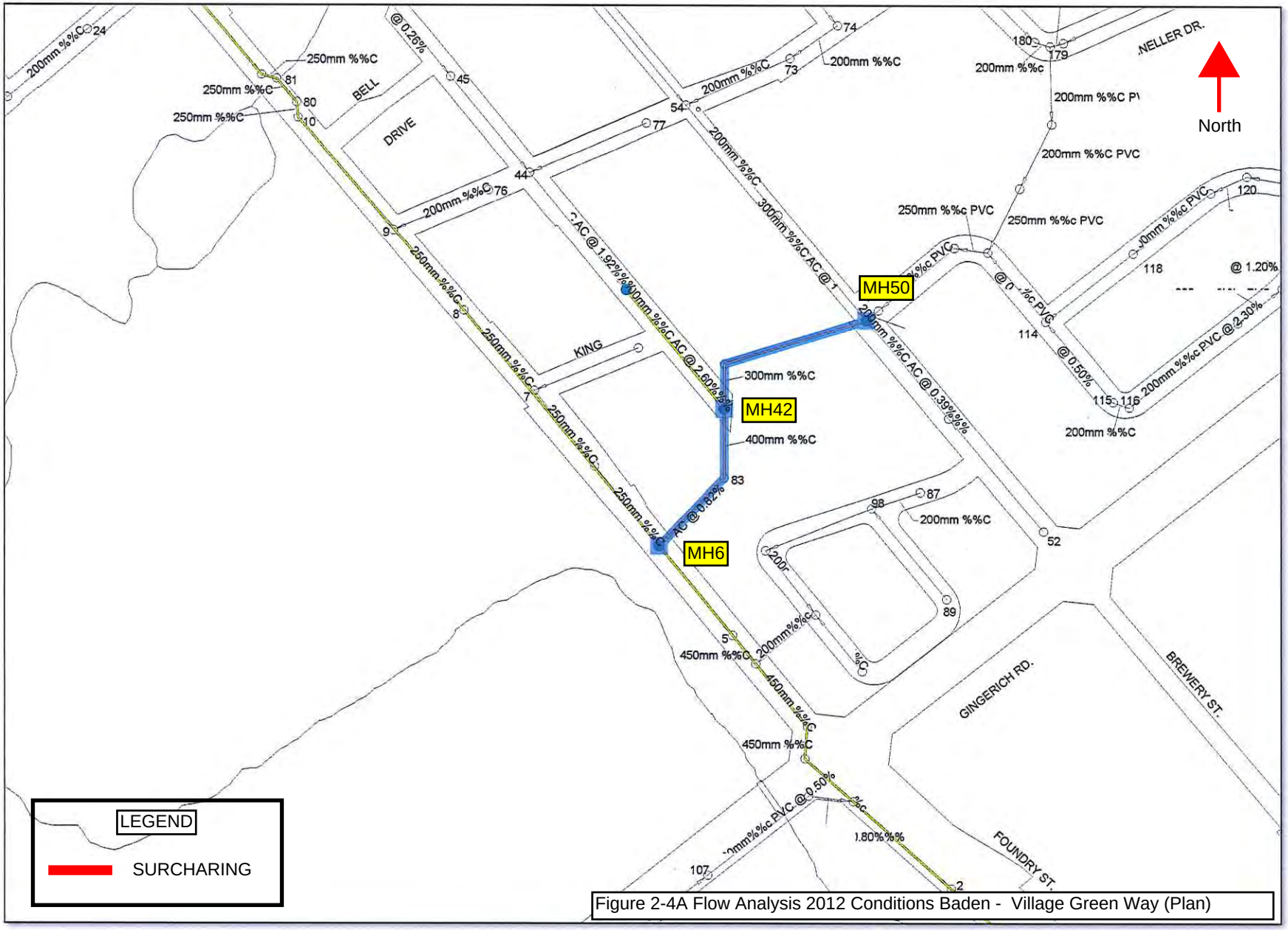

Figure 2-4A Flow Analysis 2012 Conditions Baden - Village Green Way (Plan)

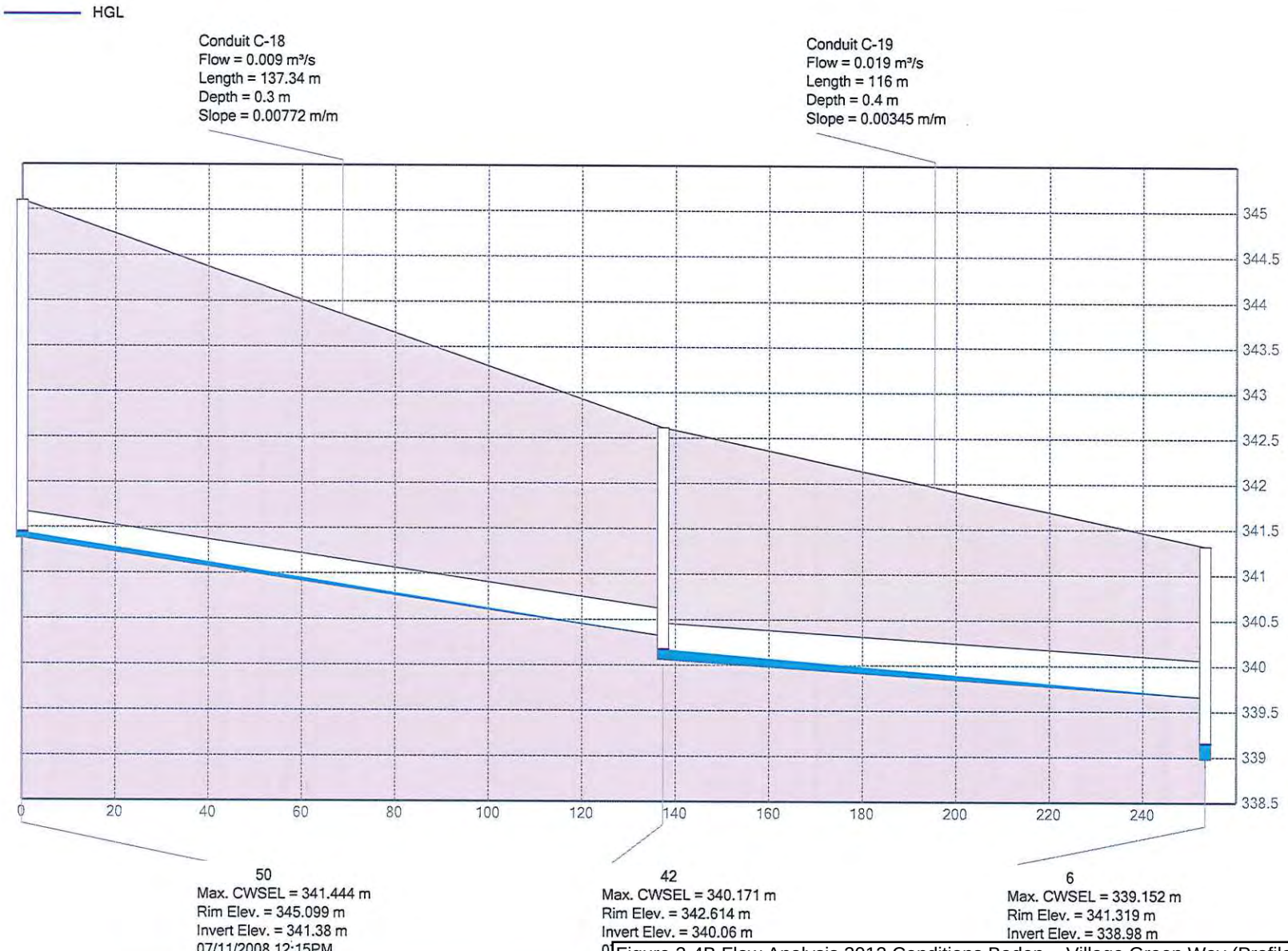

Figure 2-4B Flow Analysis 2012 Conditions Baden - Village Green Way (Profile)

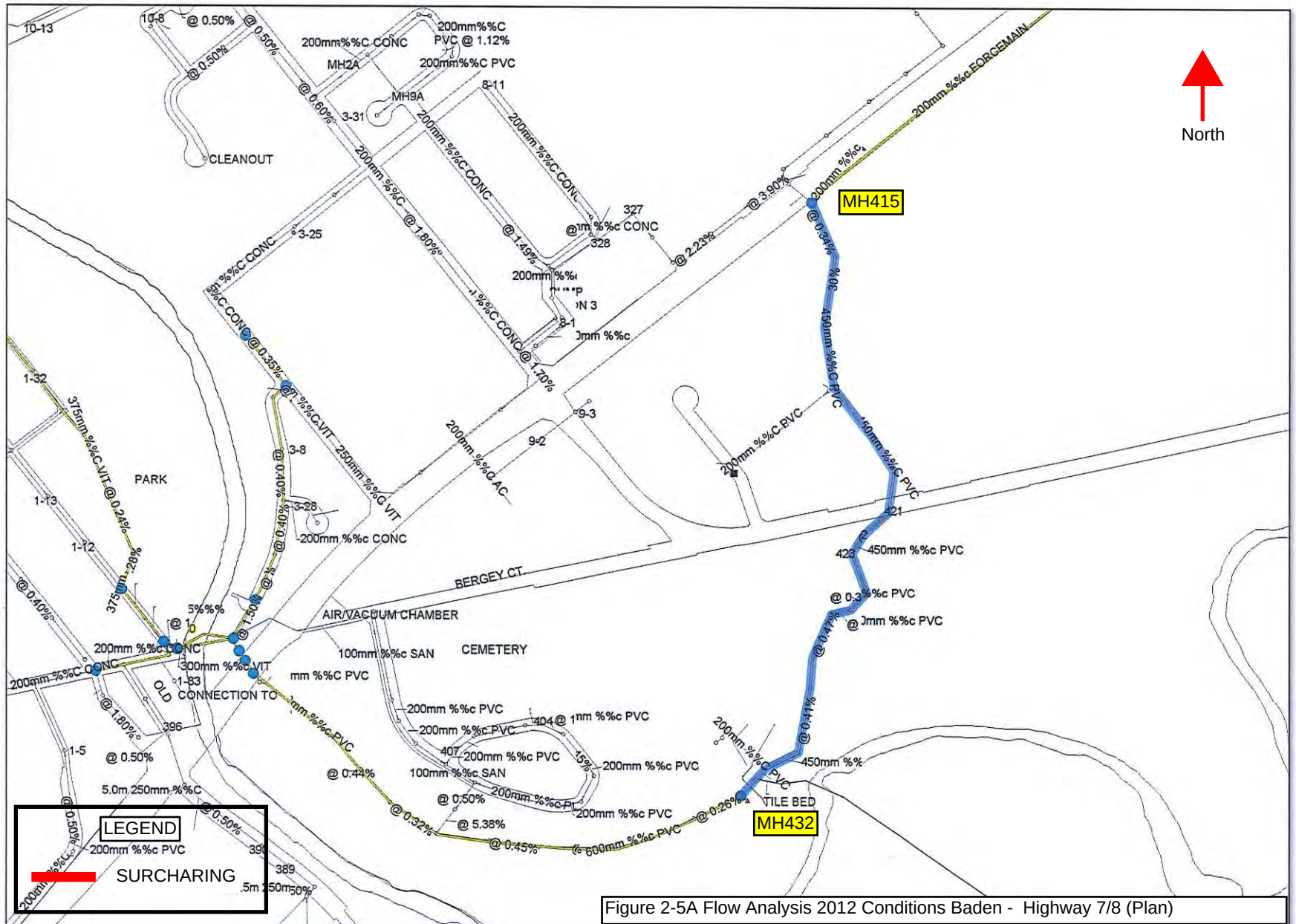

Figure 2-5A Flow Analysis 2012 Conditions Baden - Highway 7/8 (Plan)

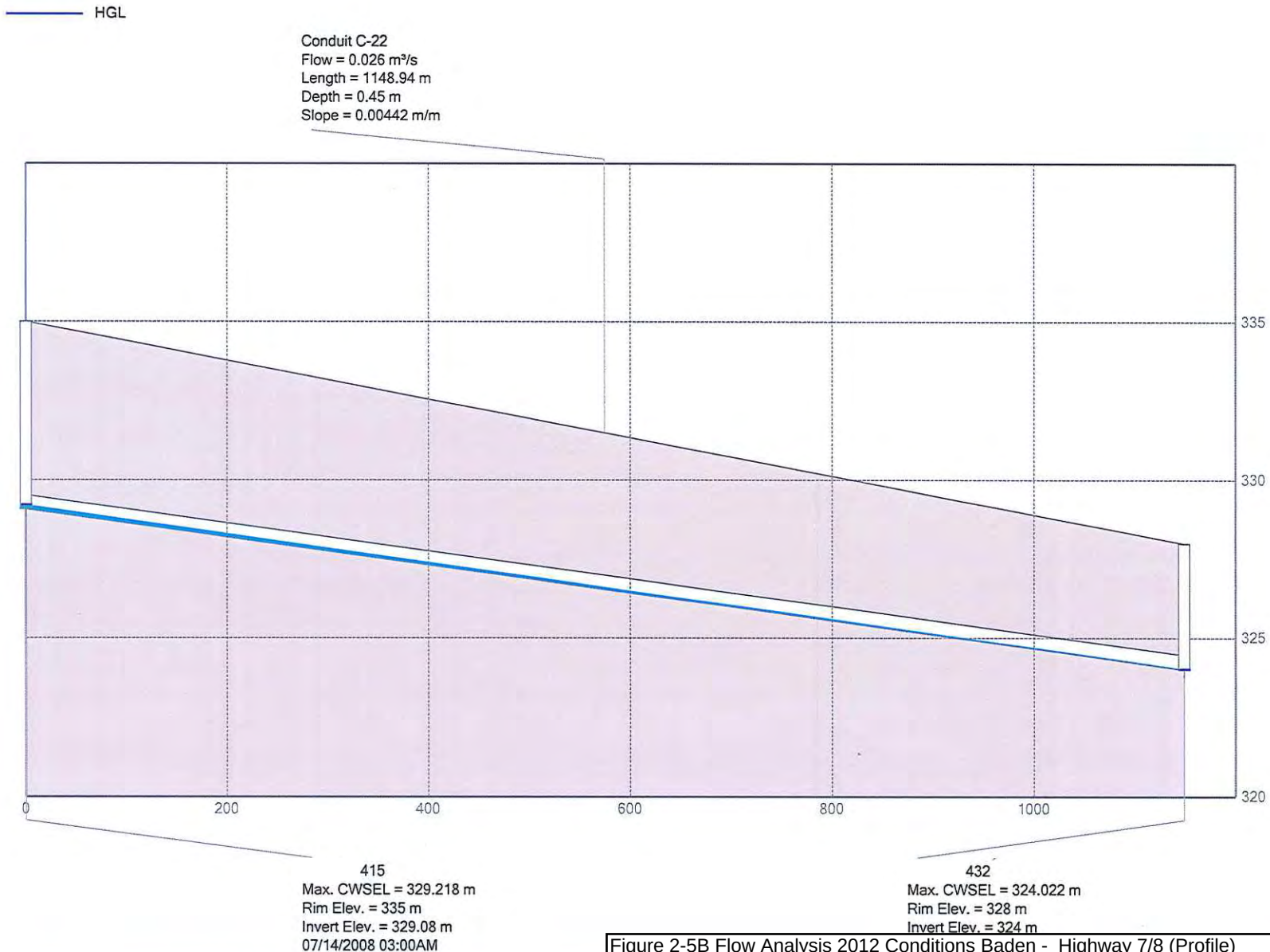

Figure 2-5B Flow Analysis 2012 Conditions Baden - Highway 7/8 (Profile)

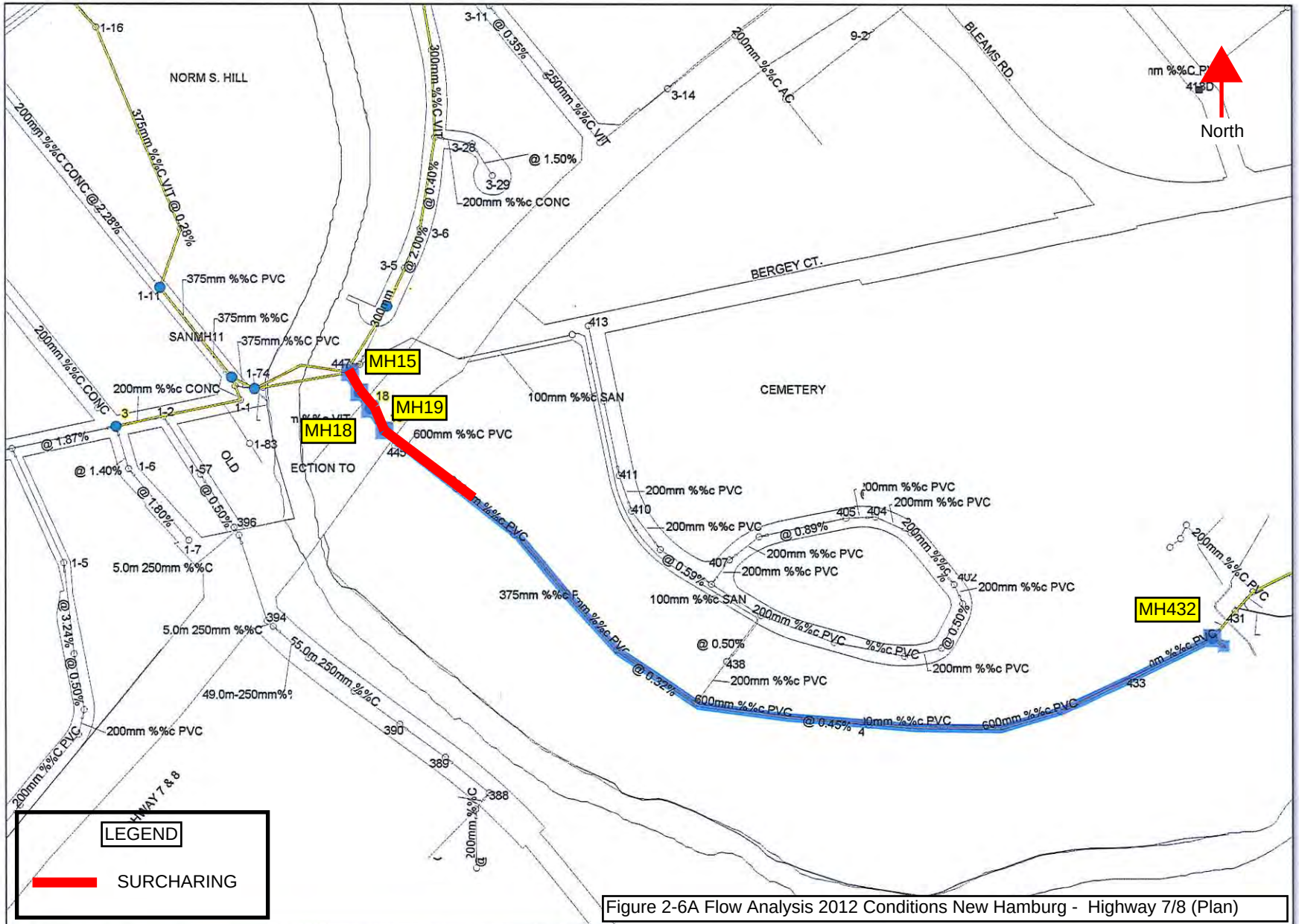

Figure 2-6A Flow Analysis 2012 Conditions New Hamburg - Highway 7/8 (Plan)

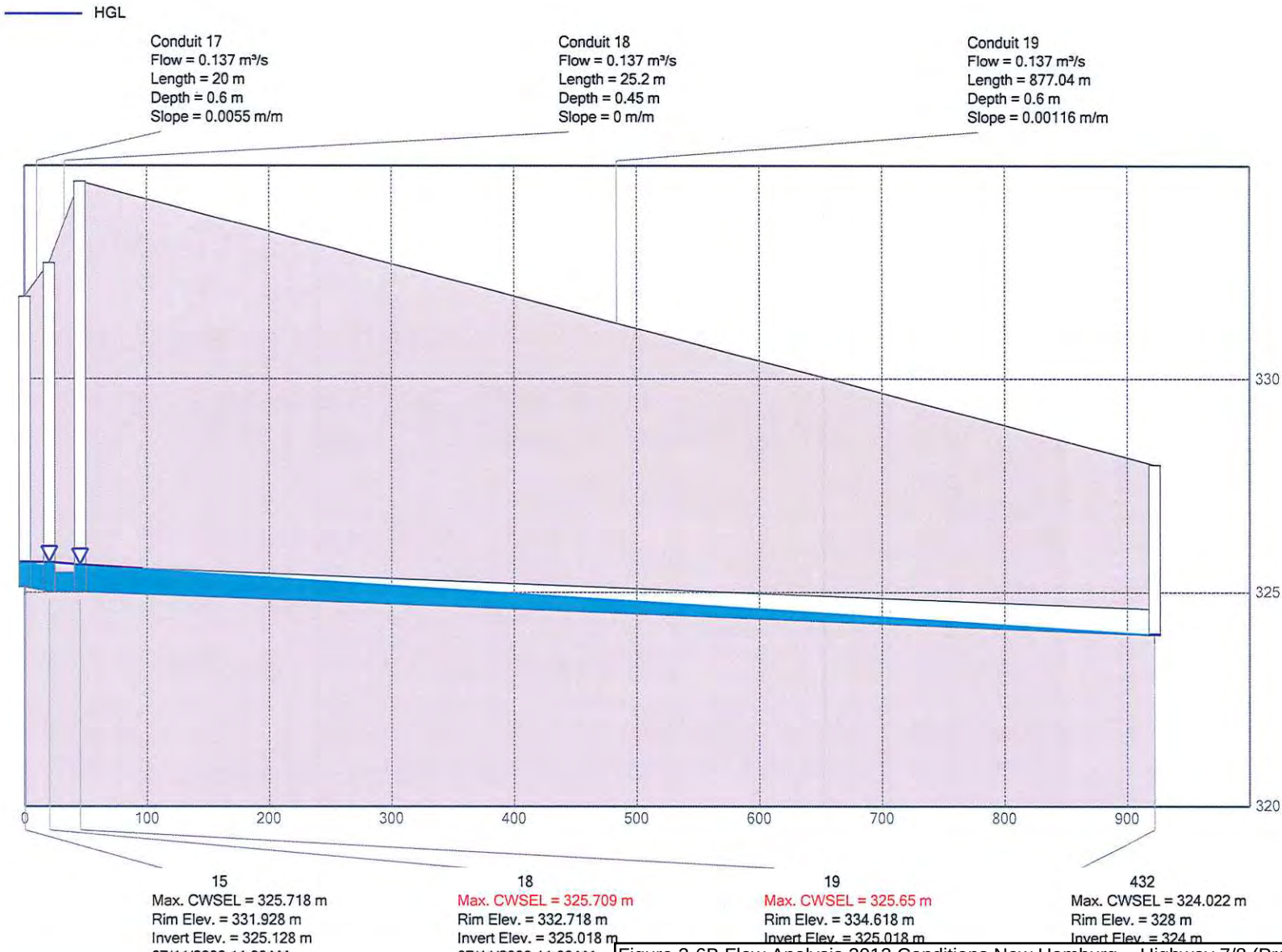

Figure 2-6B Flow Analysis 2012 Conditions New Hamburg - Highway 7/8 (Profile)

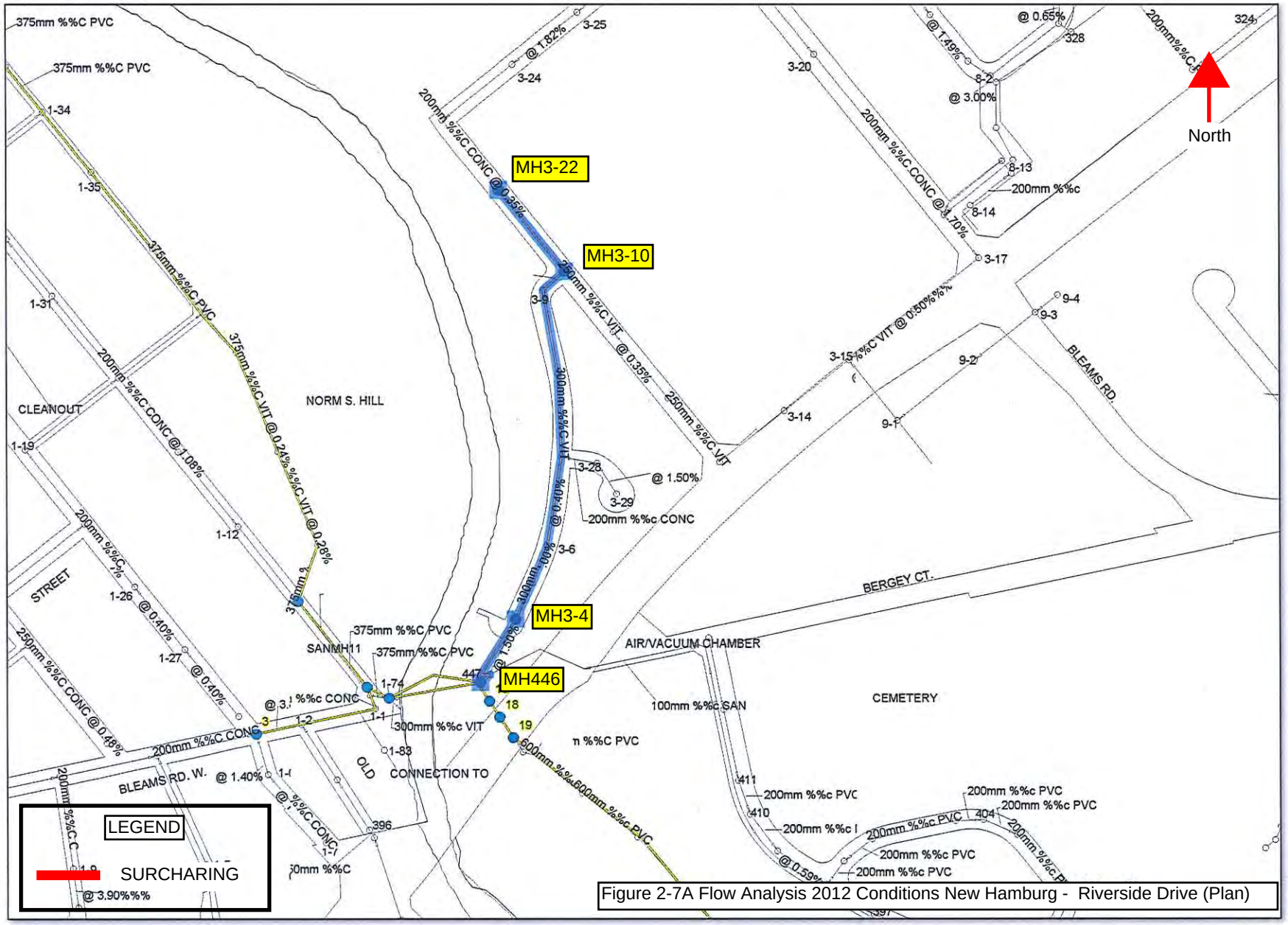

Figure 2-7A Flow Analysis 2012 Conditions New Hamburg - Riverside Drive (Plan)

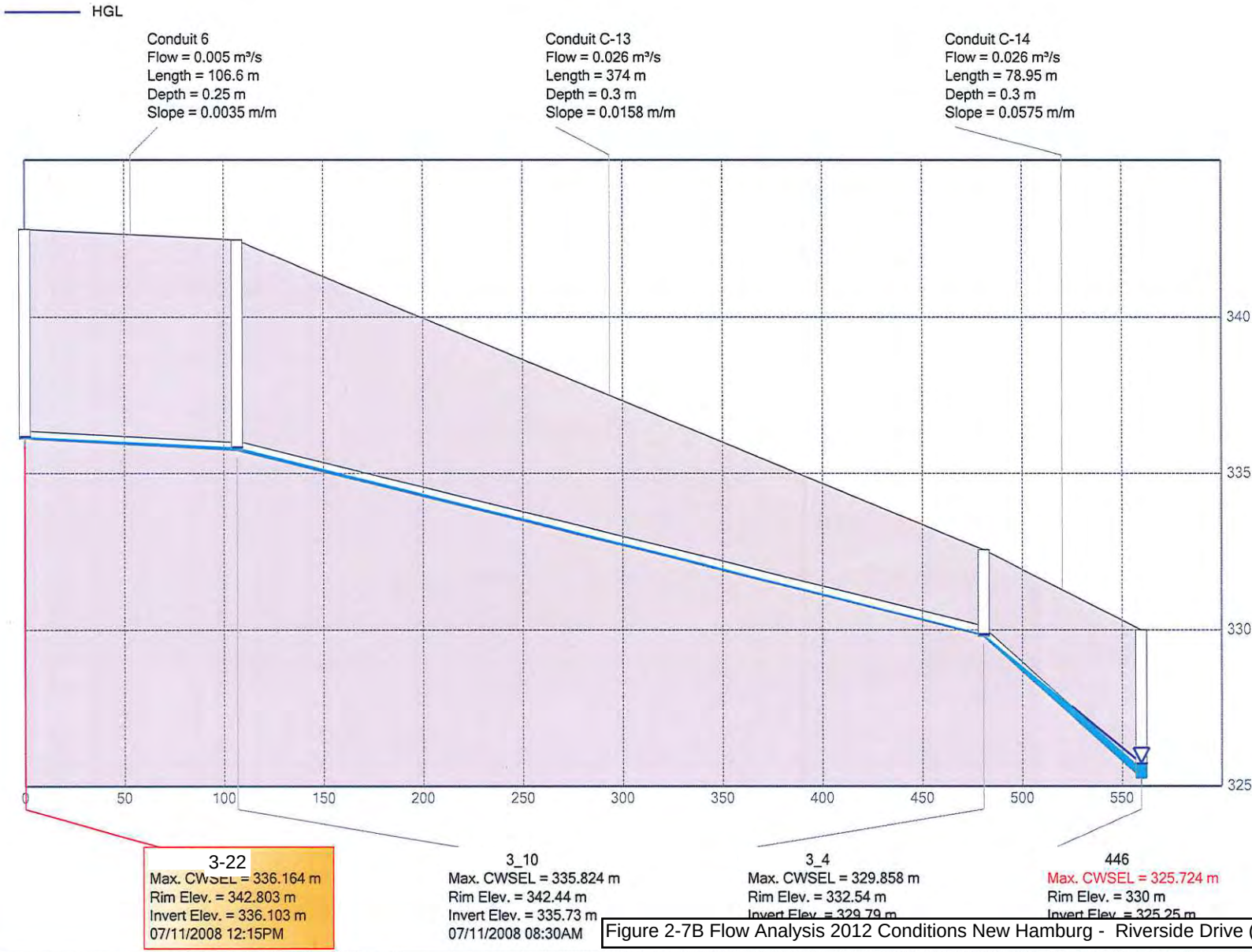

Figure 2-7B Flow Analysis 2012 Conditions New Hamburg - Riverside Drive (Profile)

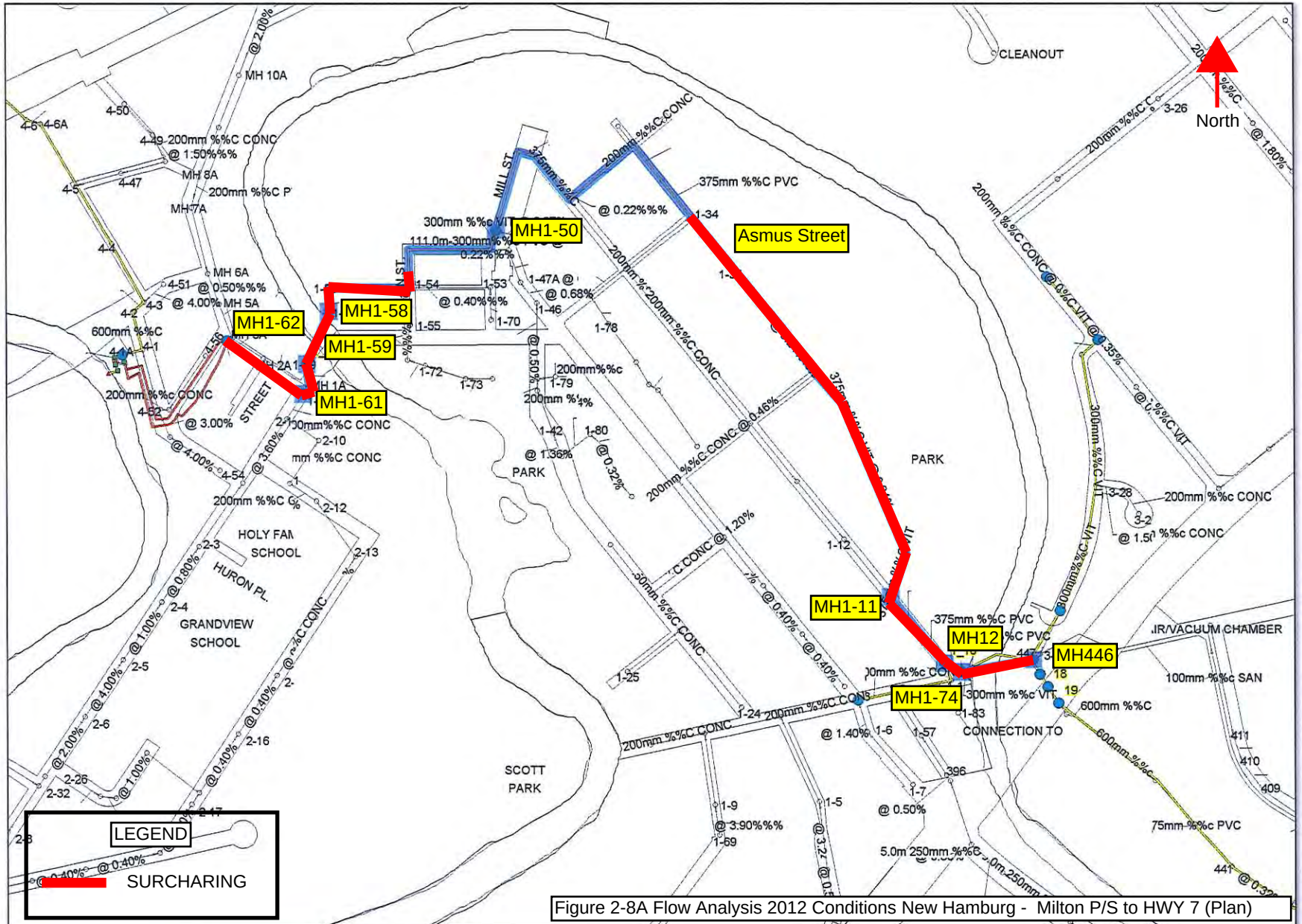

Figure 2-8A Flow Analysis 2012 Conditions New Hamburg - Milton P/S to HWY 7 (Plan)

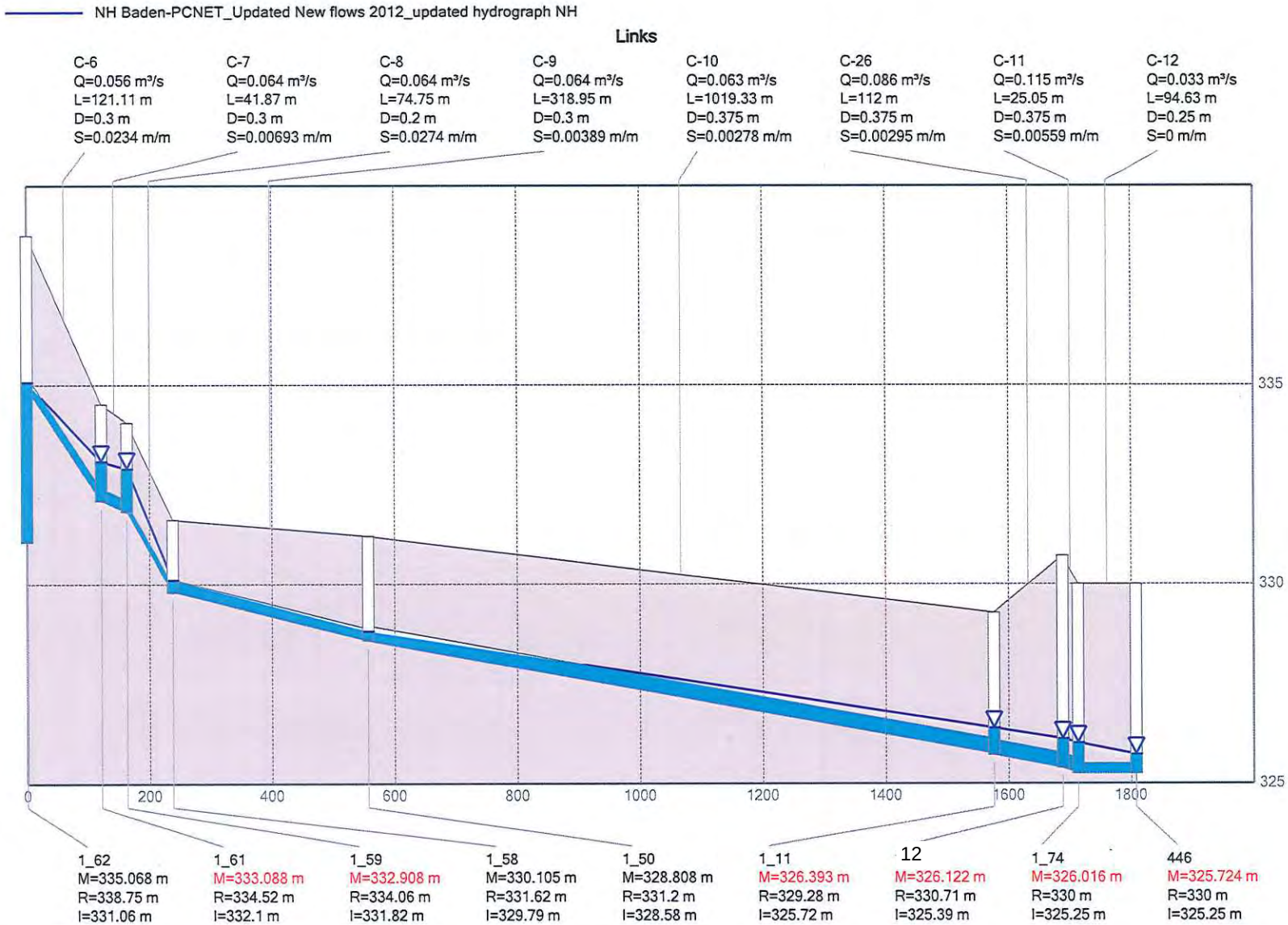

Figure 2-8B Flow Analysis 2012 Conditions New Hamburg - Milton P/S to HWY 7 (Profile)

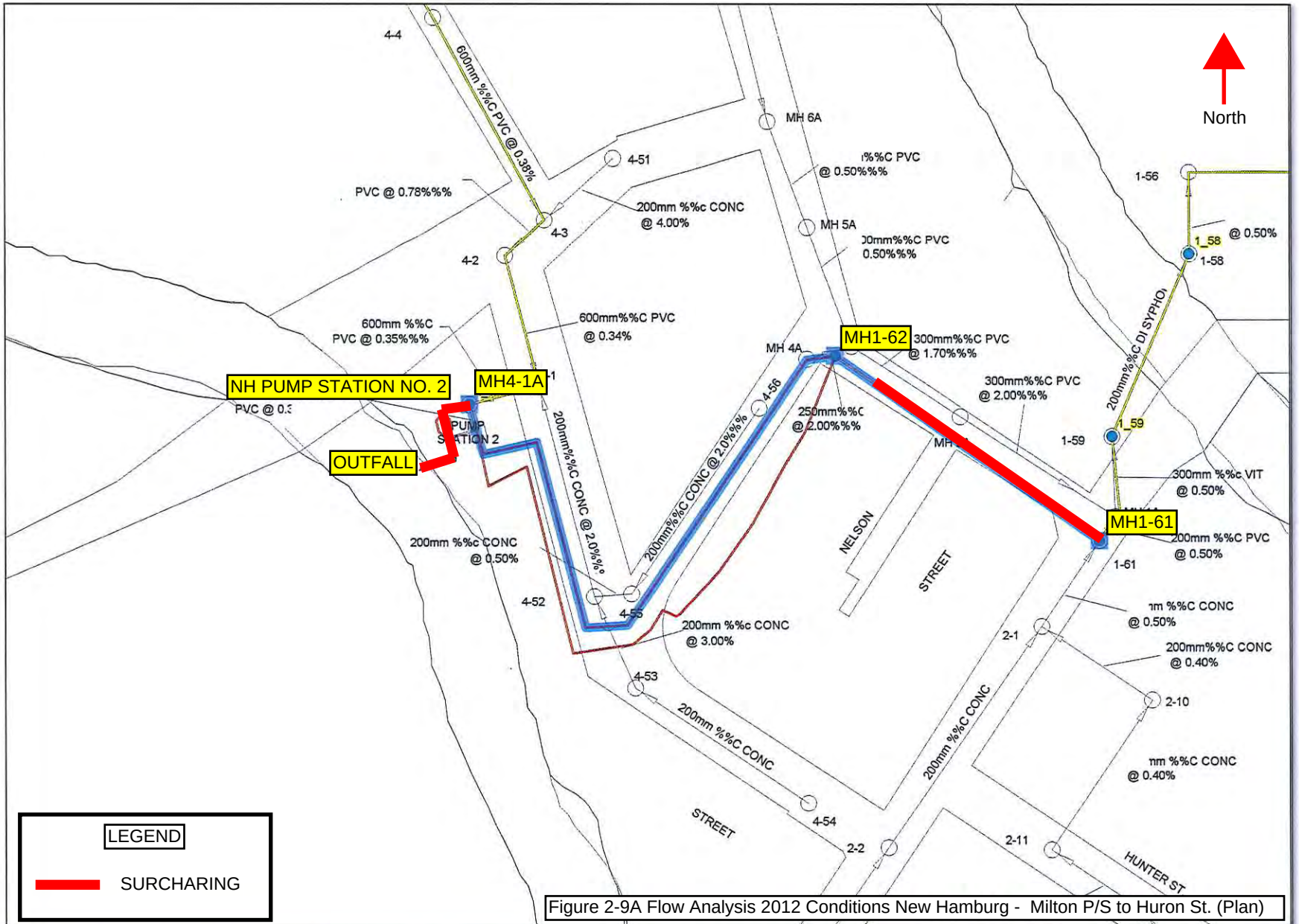

Figure 2-9A Flow Analysis 2012 Conditions New Hamburg - Milton P/S to Huron St. (Plan)

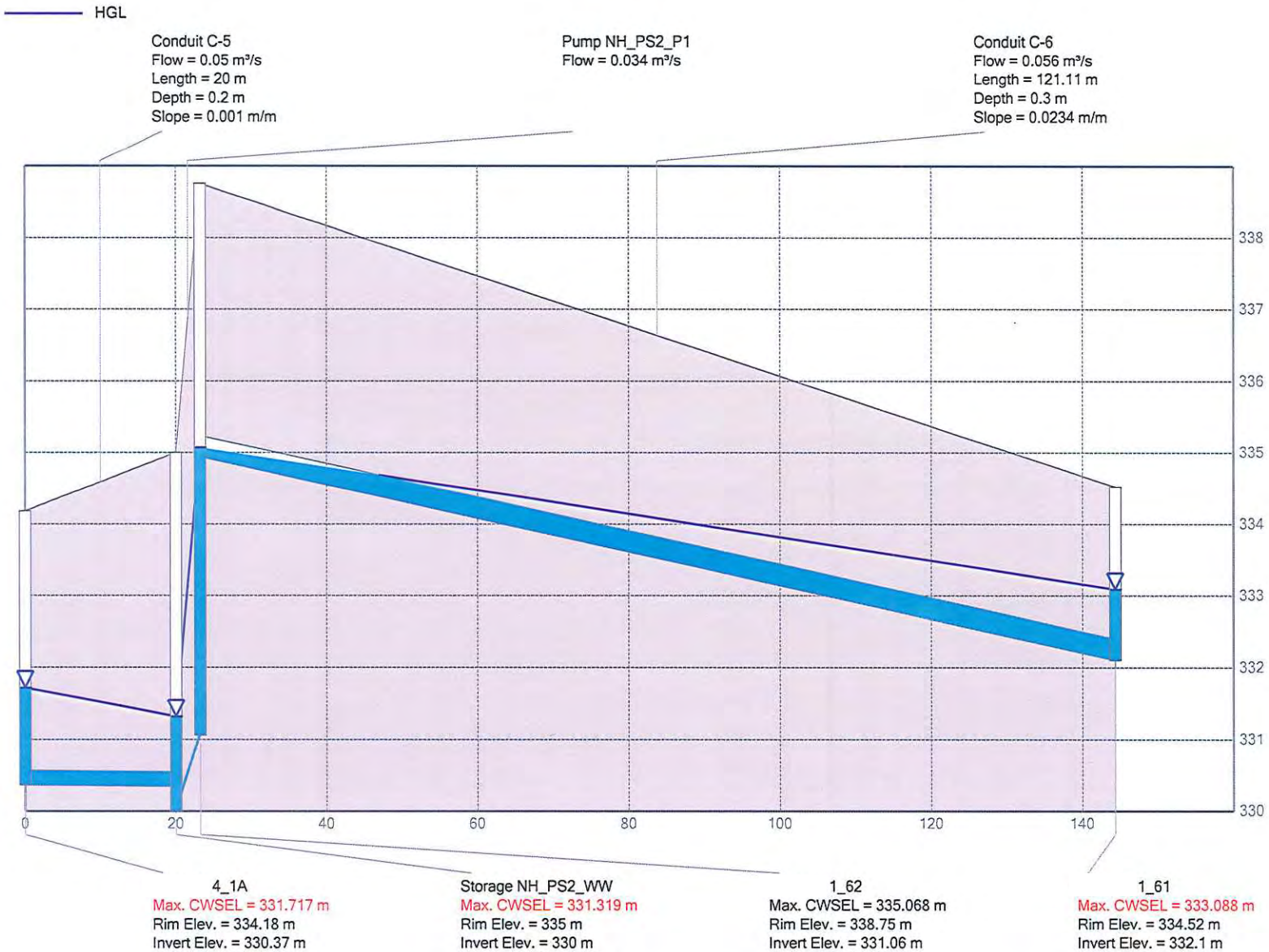

Figure 2-9B Flow Analysis 2012 Conditions New Hamburg - Milton P/S to Huron St. (Profile)

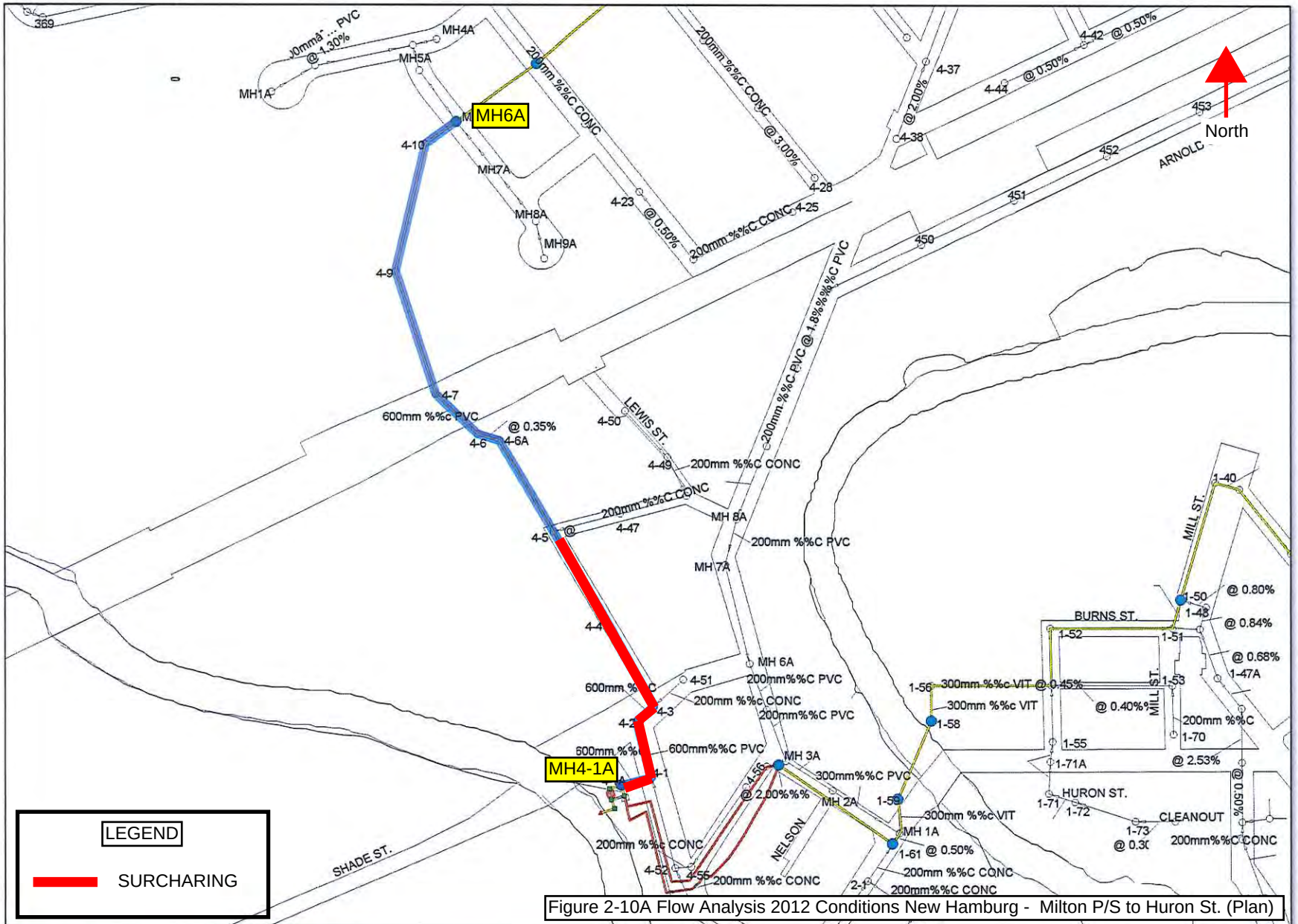

Figure 2-10A Flow Analysis 2012 Conditions New Hamburg - Milton P/S to Huron St. (Plan)

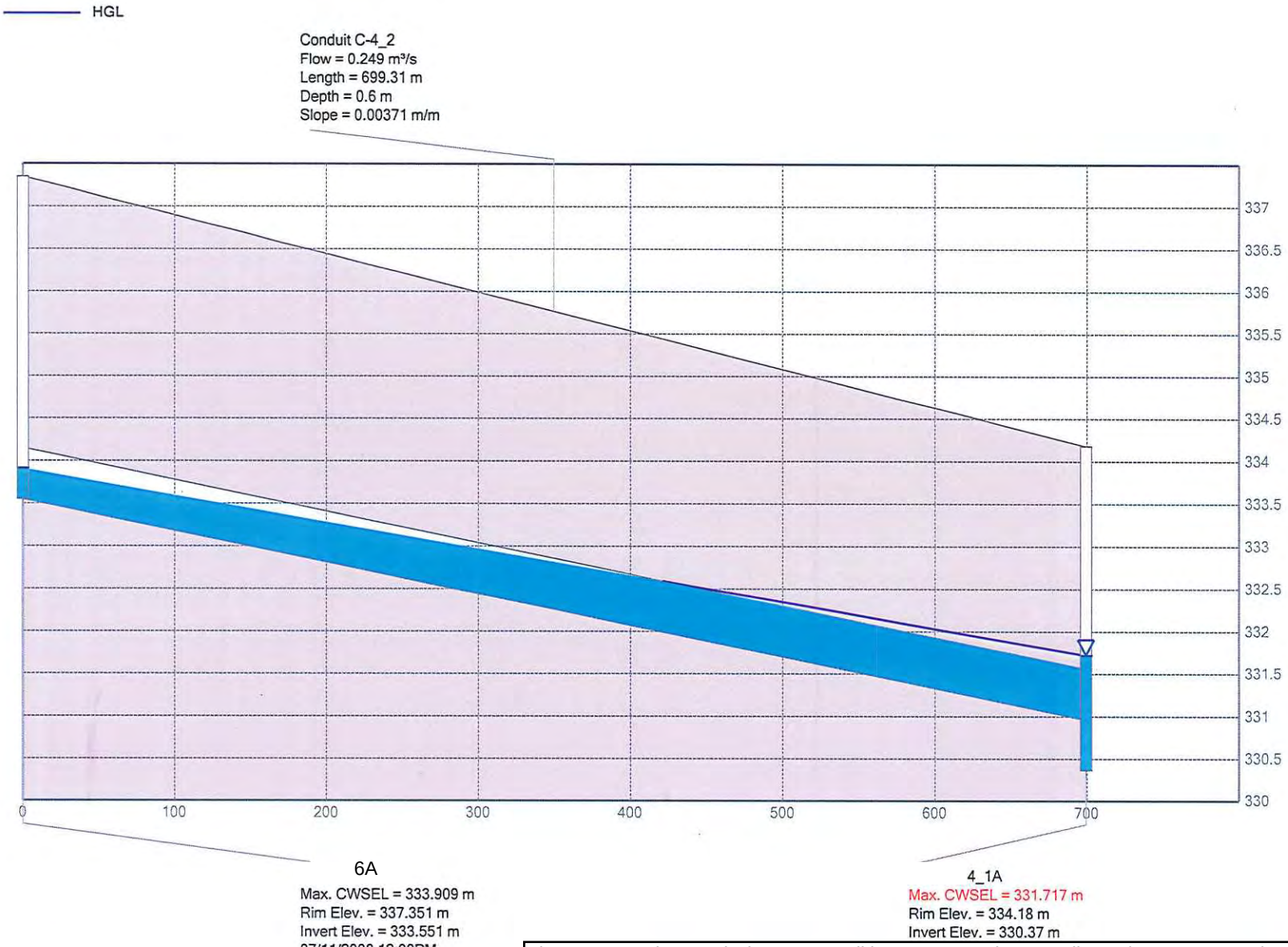

Figure 2-10B Flow Analysis 2012 Conditions New Hamburg - Milton P/S to Huron St. (Profile)

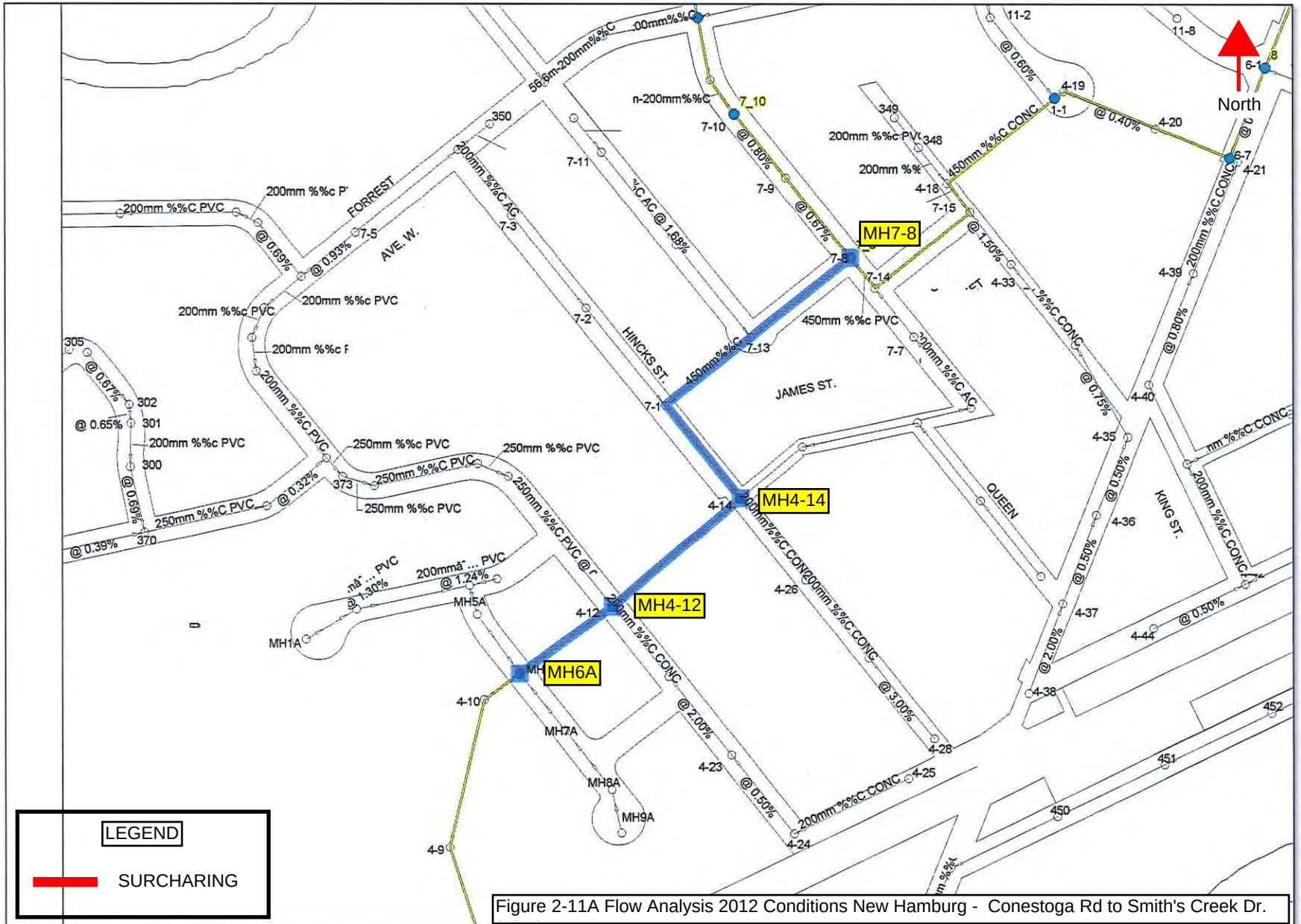

Figure 2-11A Flow Analysis 2012 Conditions New Hamburg - Conestoga Rd to Smith's Creek Dr.

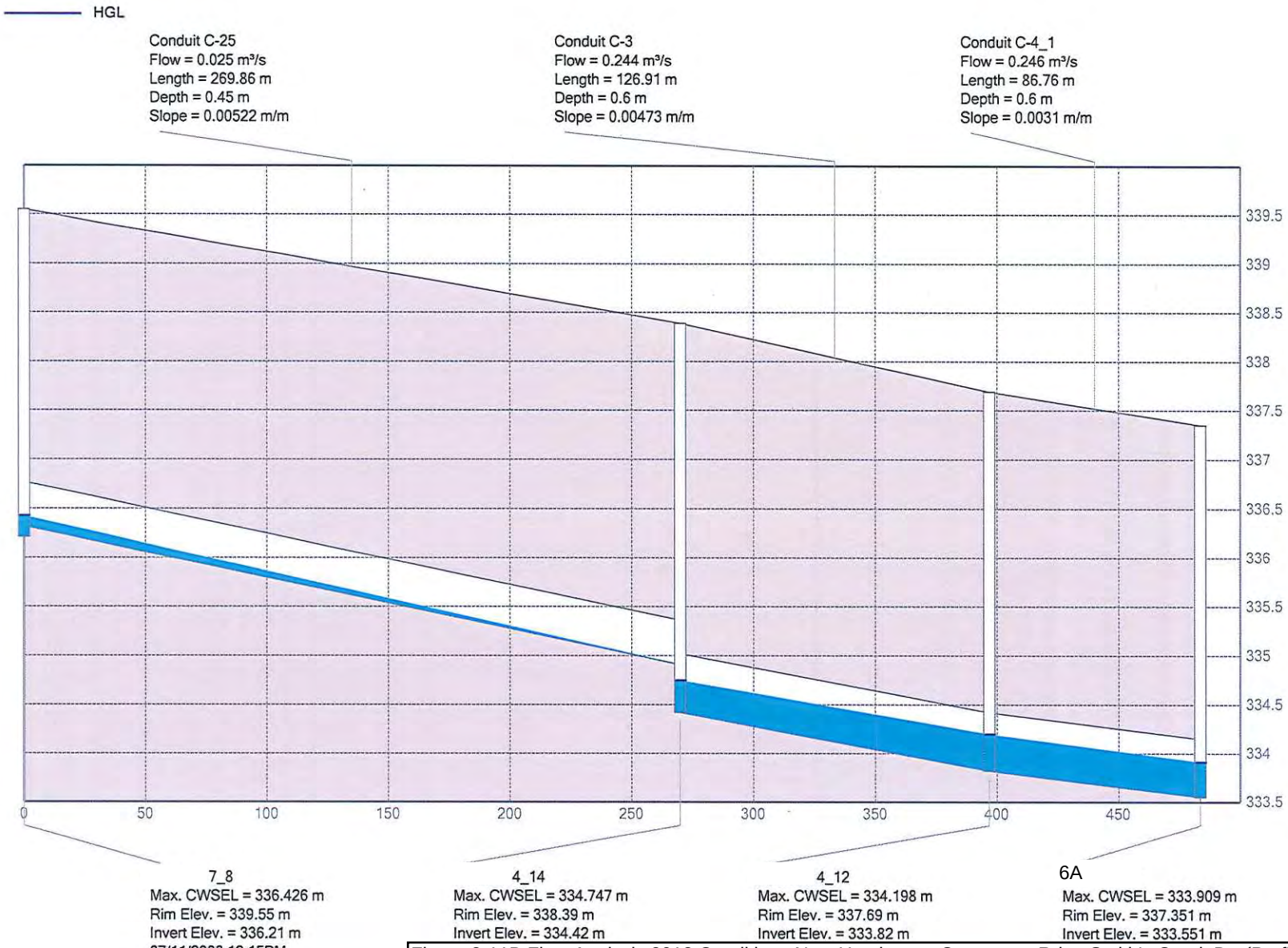

Figure 2-11B Flow Analysis 2012 Conditions New Hamburg - Conestoga Rd to Smith's Creek Dr. (Profile)

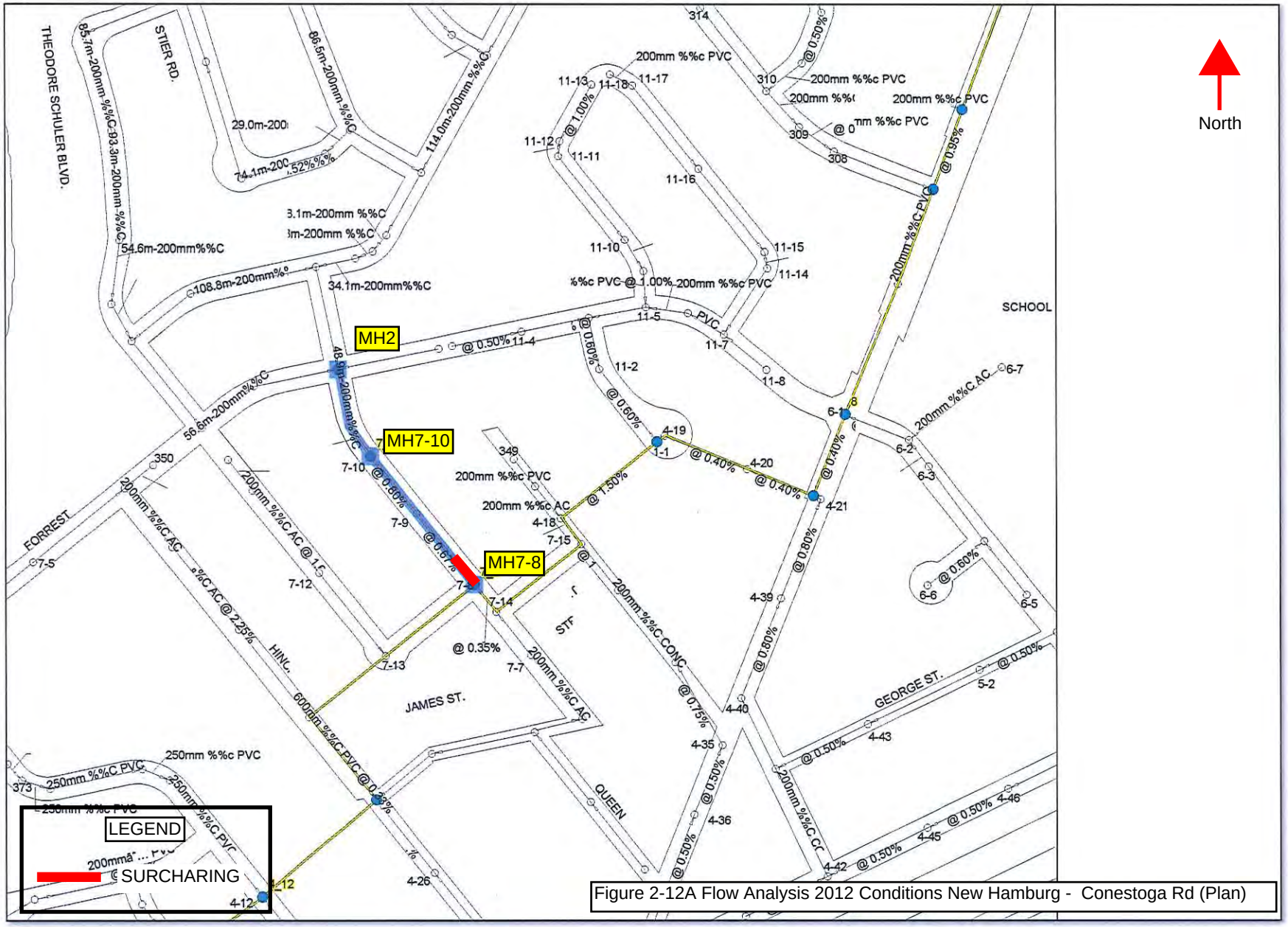

Figure 2-12A Flow Analysis 2012 Conditions New Hamburg - Conestoga Rd (Plan)

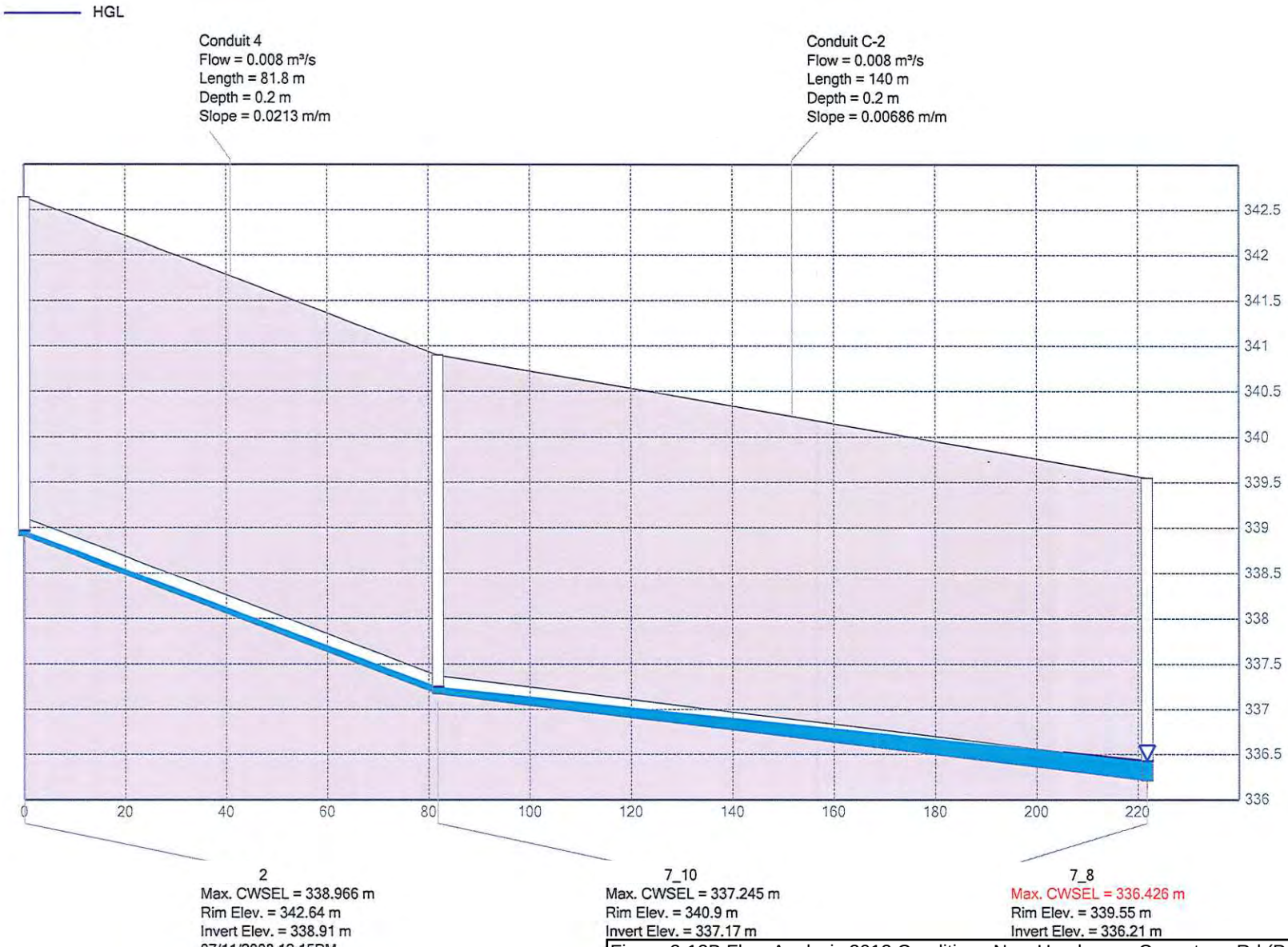

Figure 2-12B Flow Analysis 2012 Conditions New Hamburg - Conestoga Rd (Profile)

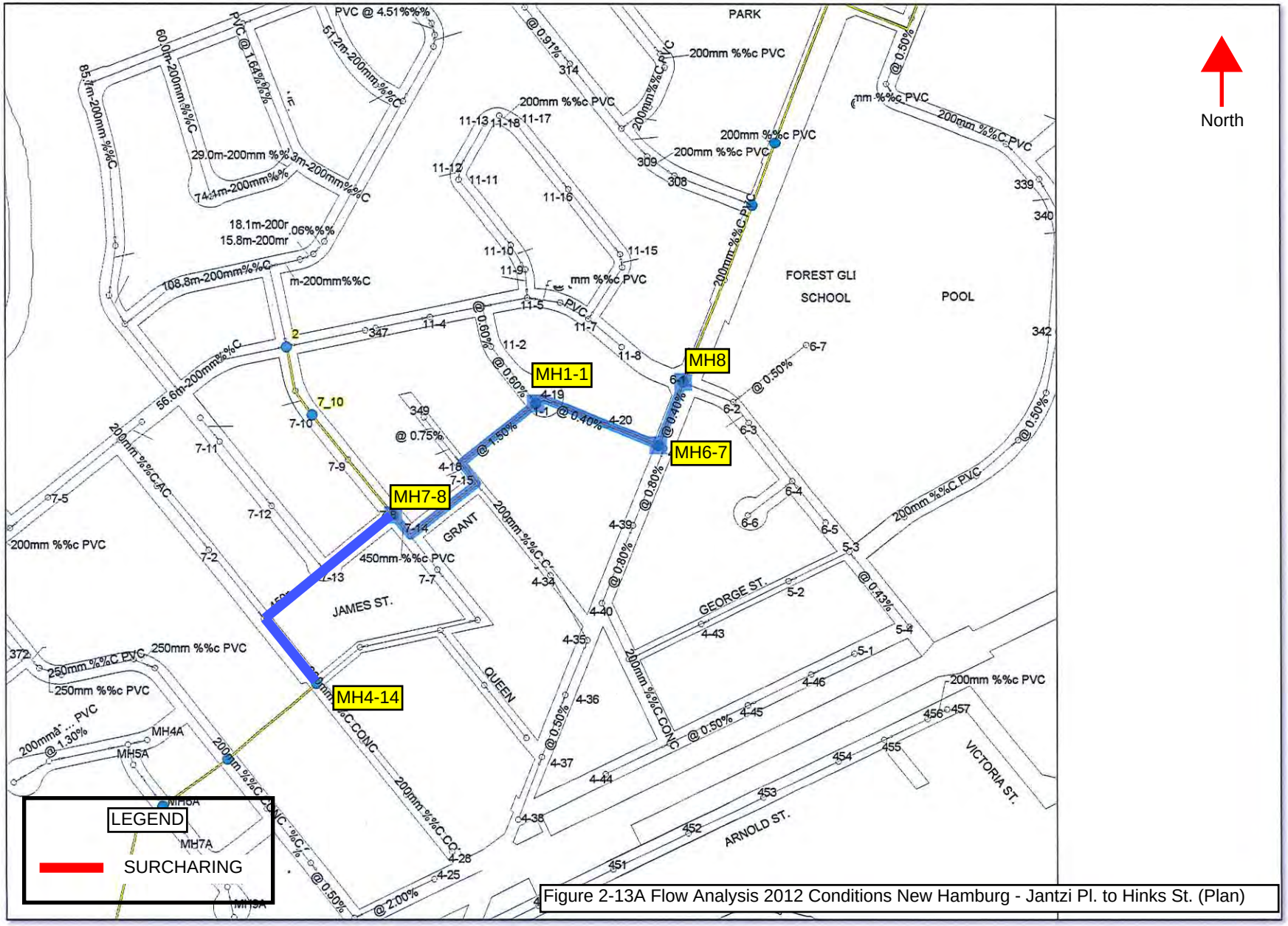

Figure 2-13A Flow Analysis 2012 Conditions New Hamburg - Jantzi Pl. to Hinks St. (Plan)

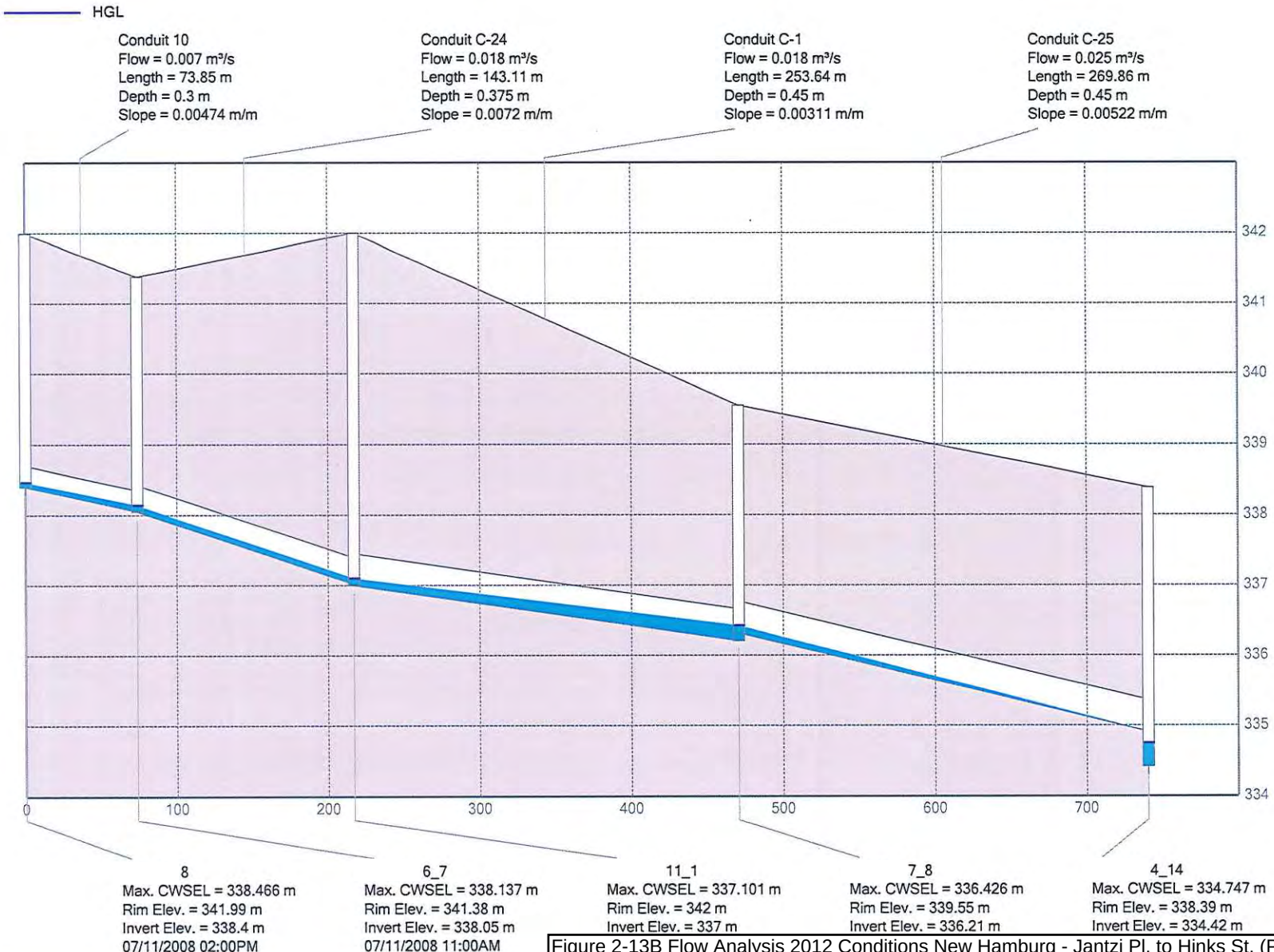

Figure 2-13B Flow Analysis 2012 Conditions New Hamburg - Jantzi Pl. to Hinks St. (Profile)

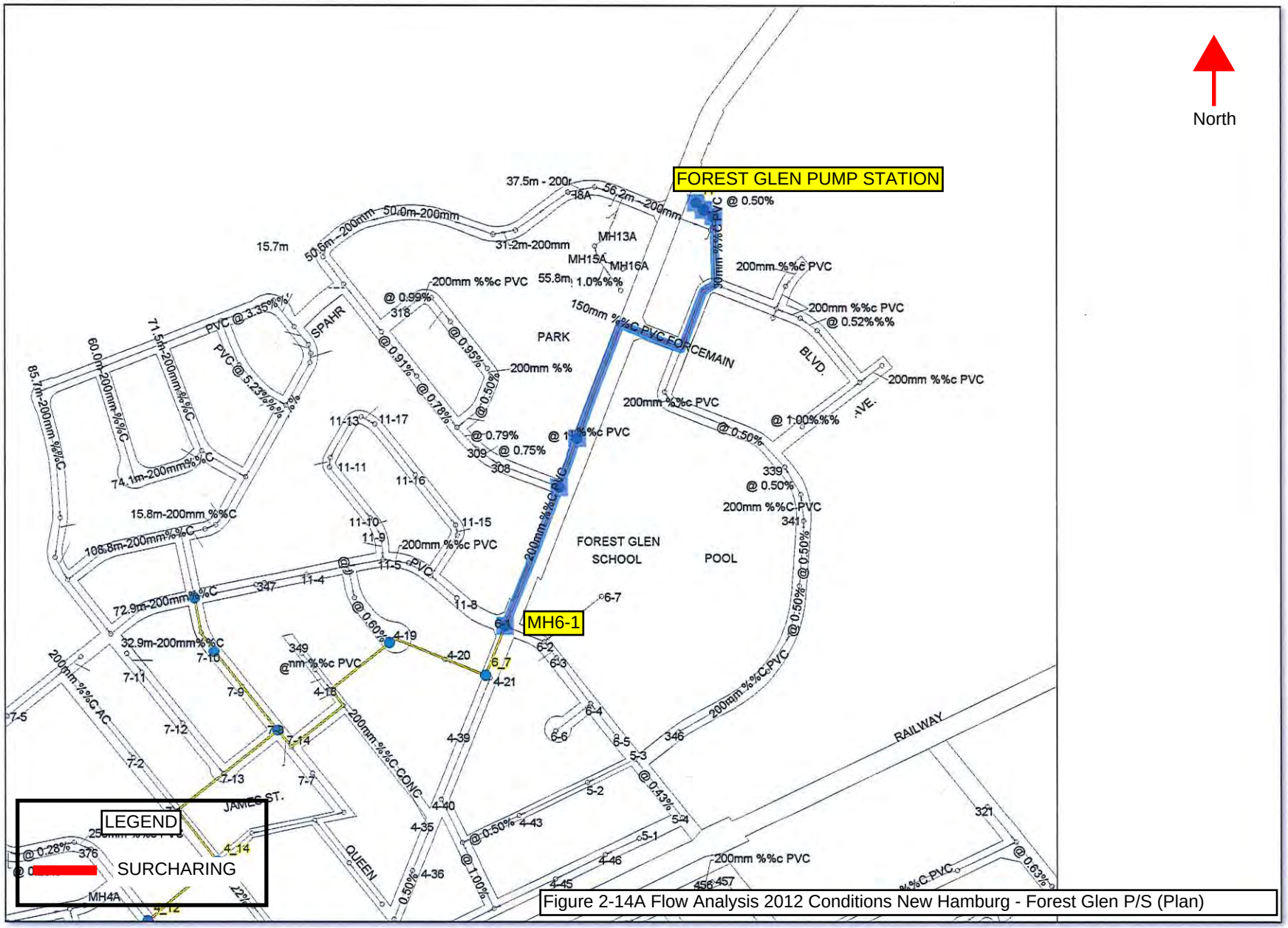

Figure 2-14A Flow Analysis 2012 Conditions New Hamburg - Forest Glen P/S (Plan)

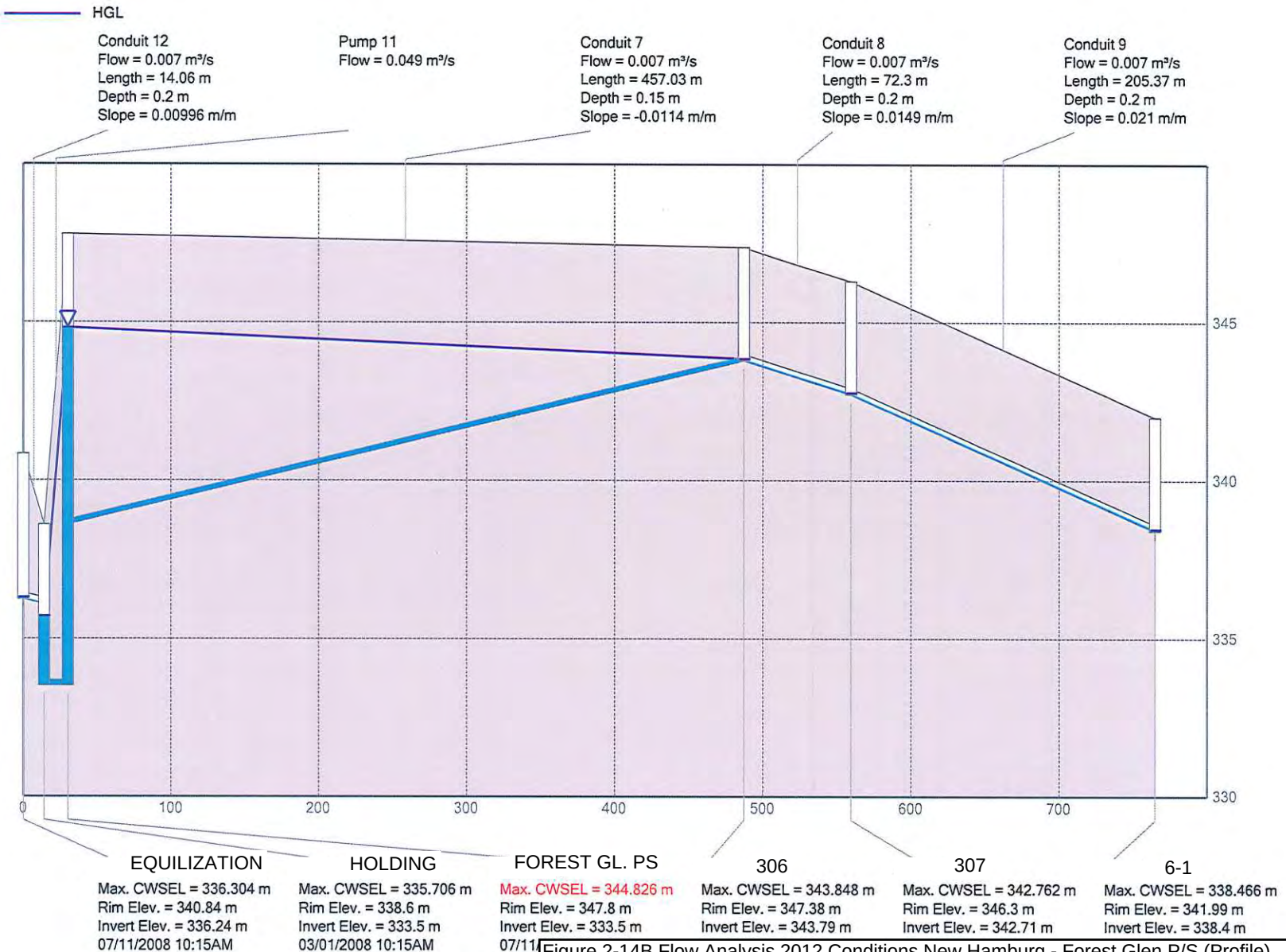

Figure 2-14B Flow Analysis 2012 Conditions New Hamburg - Forest Glen P/S (Profile)

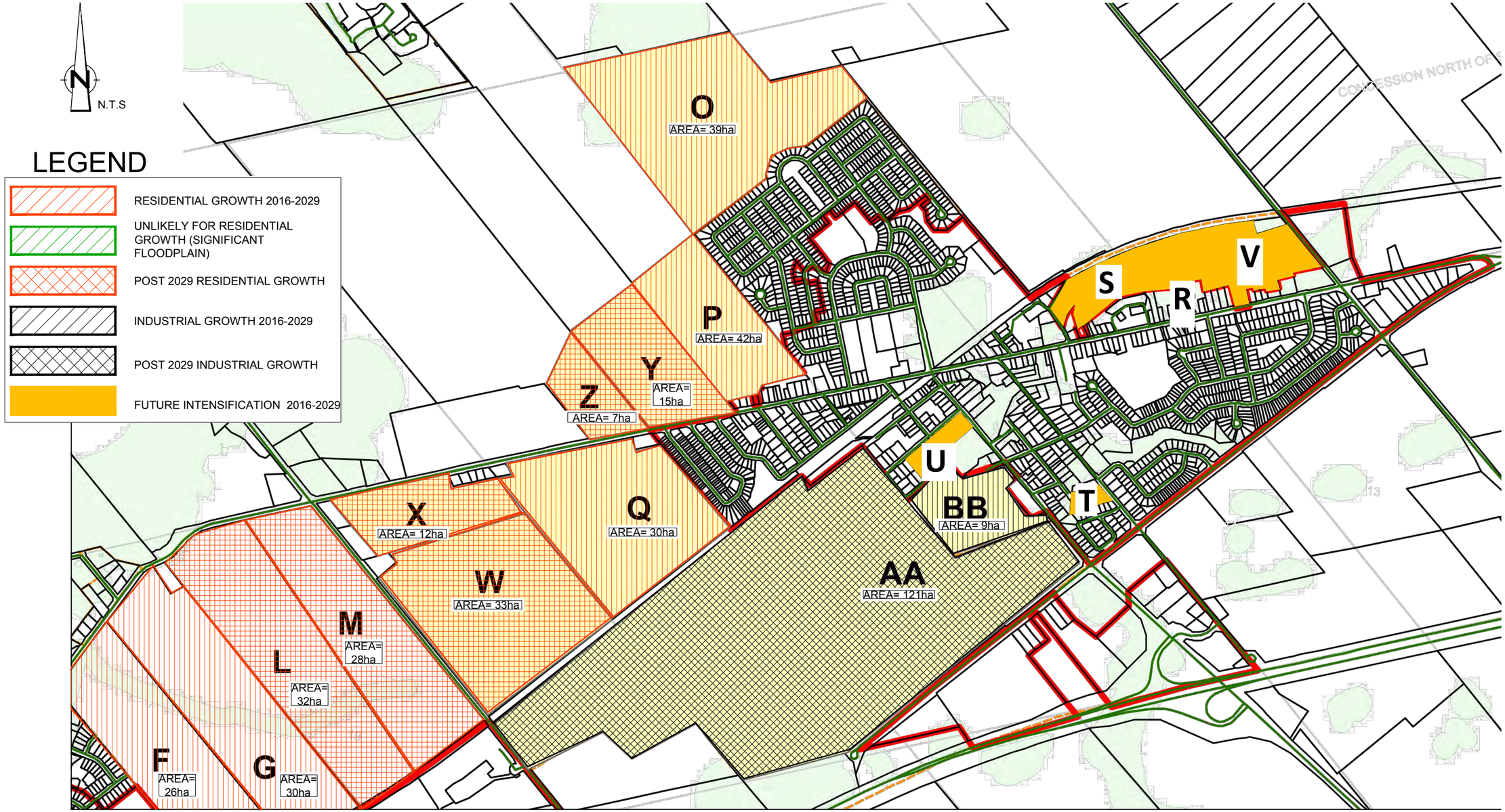

Figure 2-15 Delineation of Growth Areas - Baden

Wastewater Servicing Study for New Growth Areas in Baden and New Hamburg

Township of Wilmot

78251-10(MEMO002)GN-WA001 MAR 26/2013

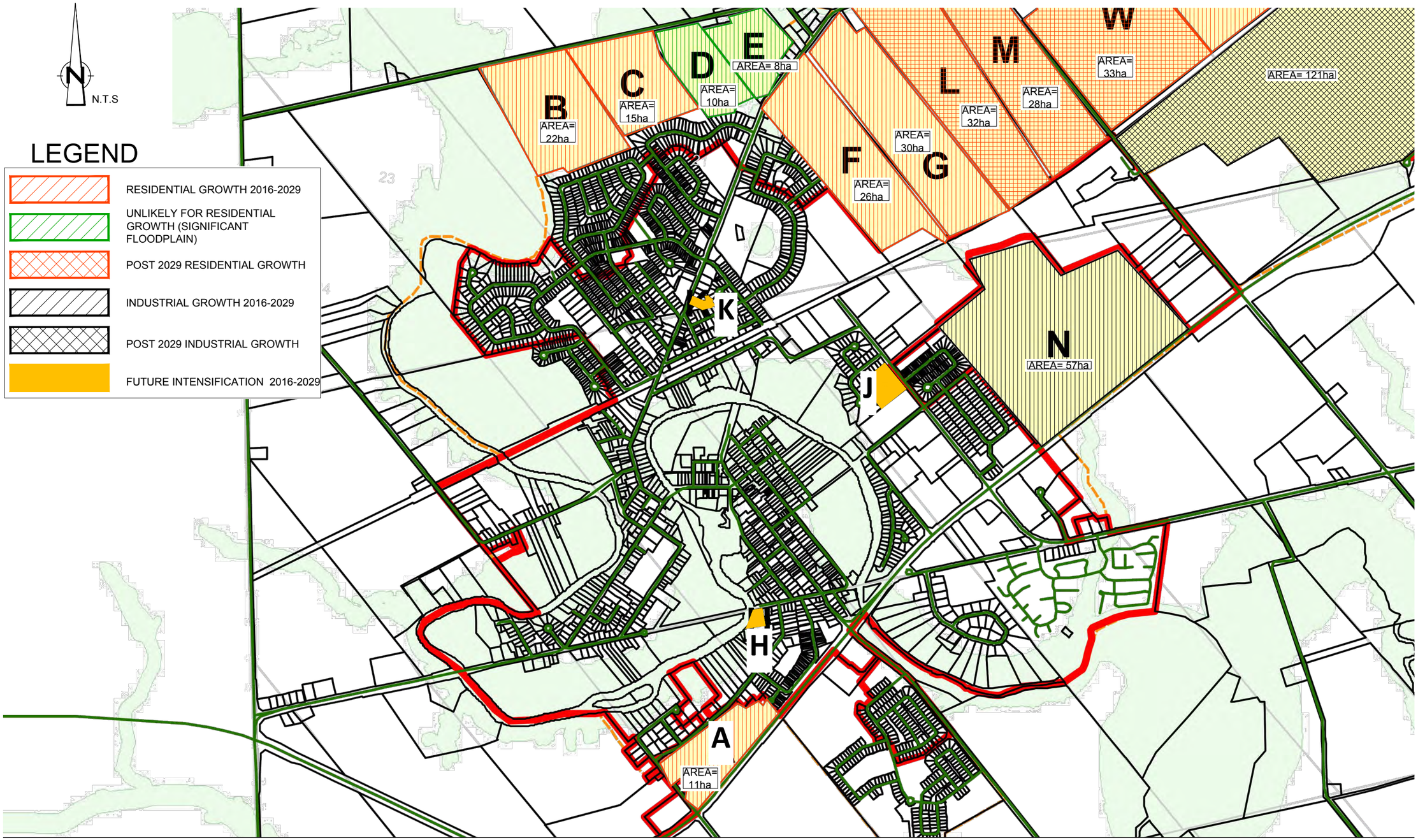

Figure 2-16 Delineation of Growth Areas - New Hamburg

Wastewater Servicing Study for New Growth Areas in Baden and New Hamburg

Township of Wilmot

78251-10(MEMO002)GN-WA001 MAR 25/2013

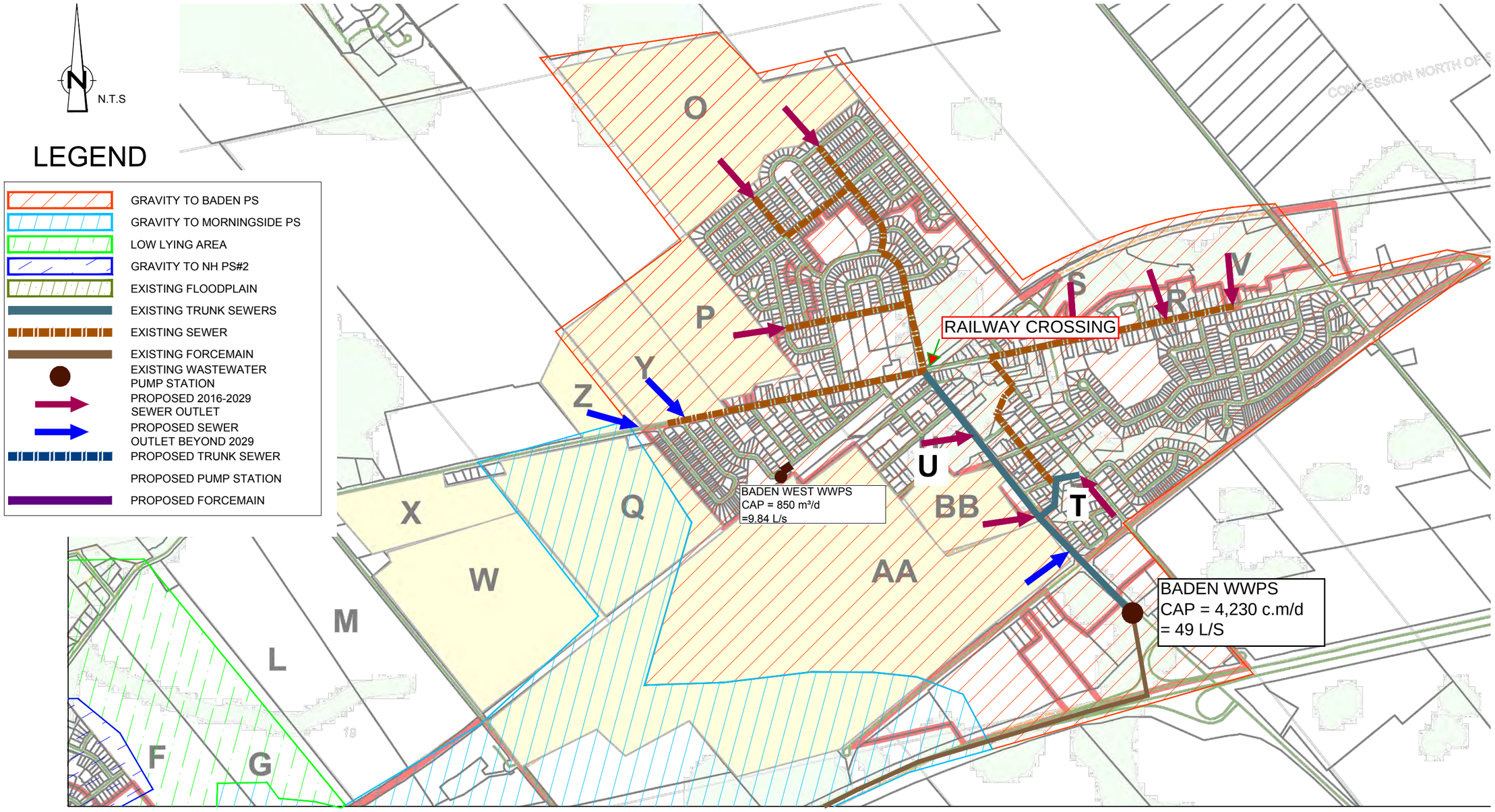

Figure 2-17 Alternative A - Utilization of Existing Sanitary Linear Infrastructure - Baden

Wastewater Servicing Study for New Growth Areas in Baden and New Hamburg

Township of Wilmot

78251-10(MEMO002)GN-WA003 AUG 8/2013

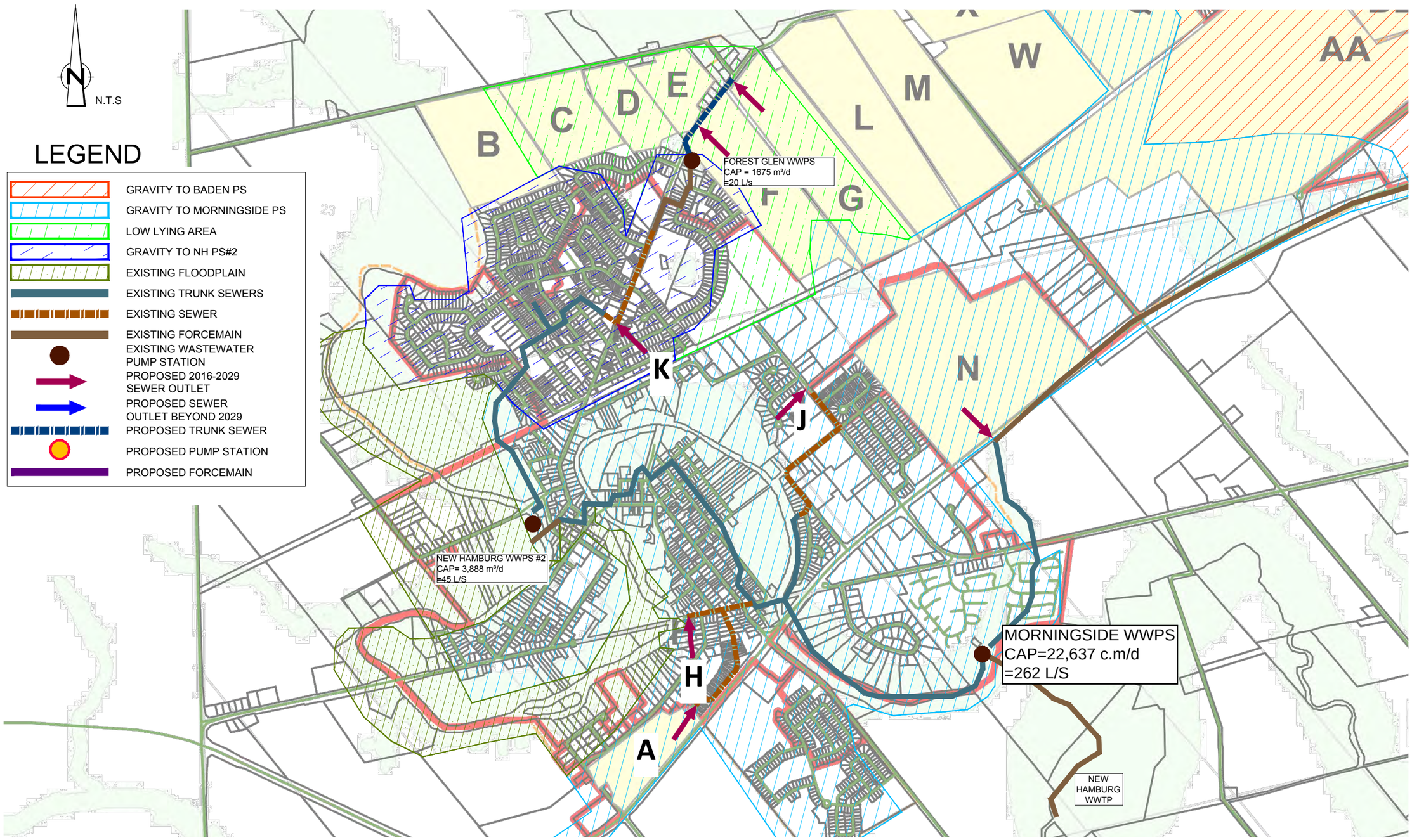

Figure 2-18 Alternative A - Utilization of Existing Sanitary Linear Infrastructure - New Hamburg

Wastewater Servicing Study for New Growth Areas in Baden and New Hamburg

Township of Wilmot

78251-10(MEMO002)GN-WA003 AUG 8/2013

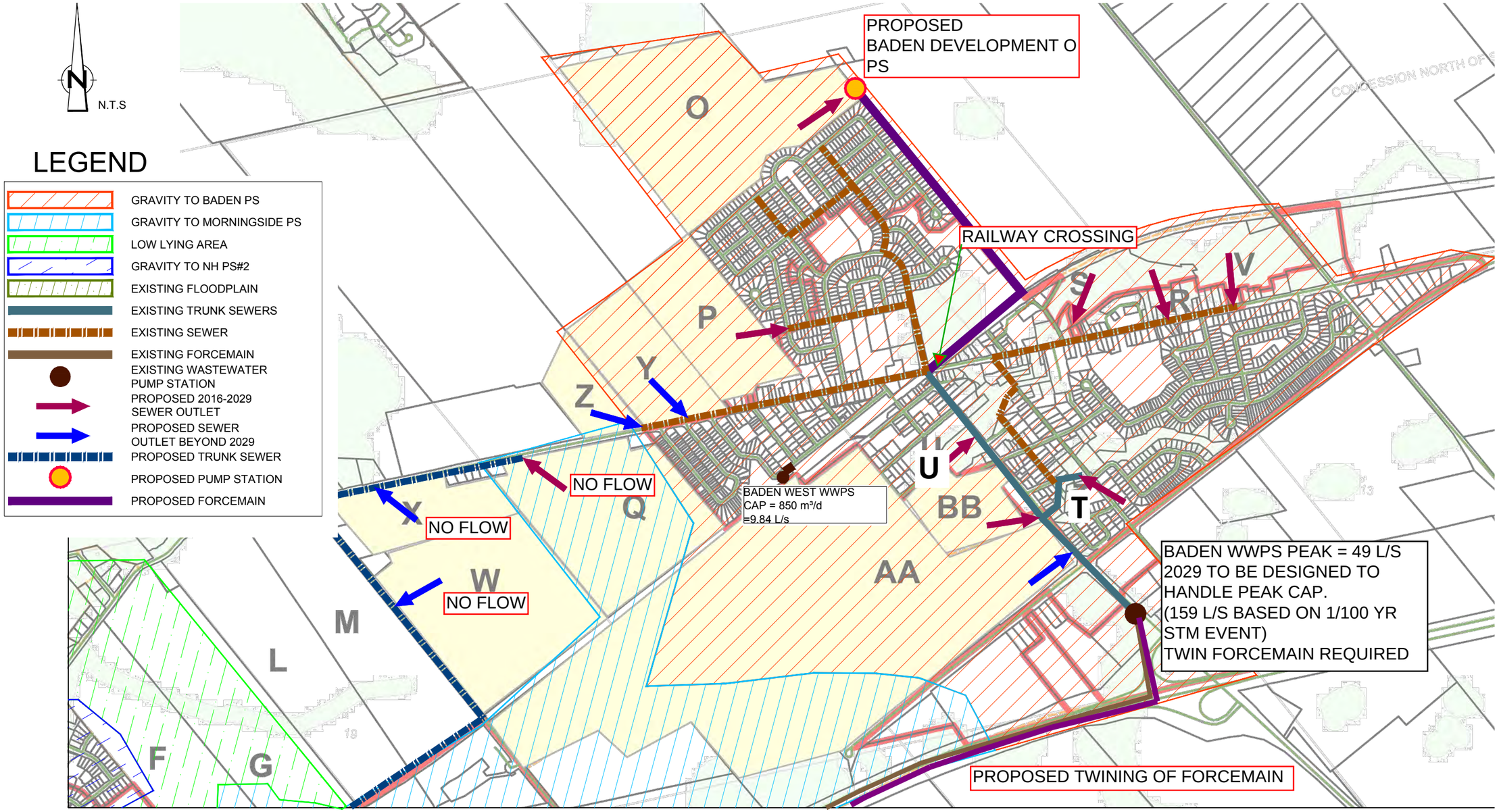

Figure 2-19 Alternative B - Proposed Sanitary Linear Infrastructure and Pump Stations - Baden

Wastewater Servicing Study for New Growth Areas in Baden and New Hamburg

Township of Wilmot

78251-10(MEMO002)GN-WA004 AUG 8/2013

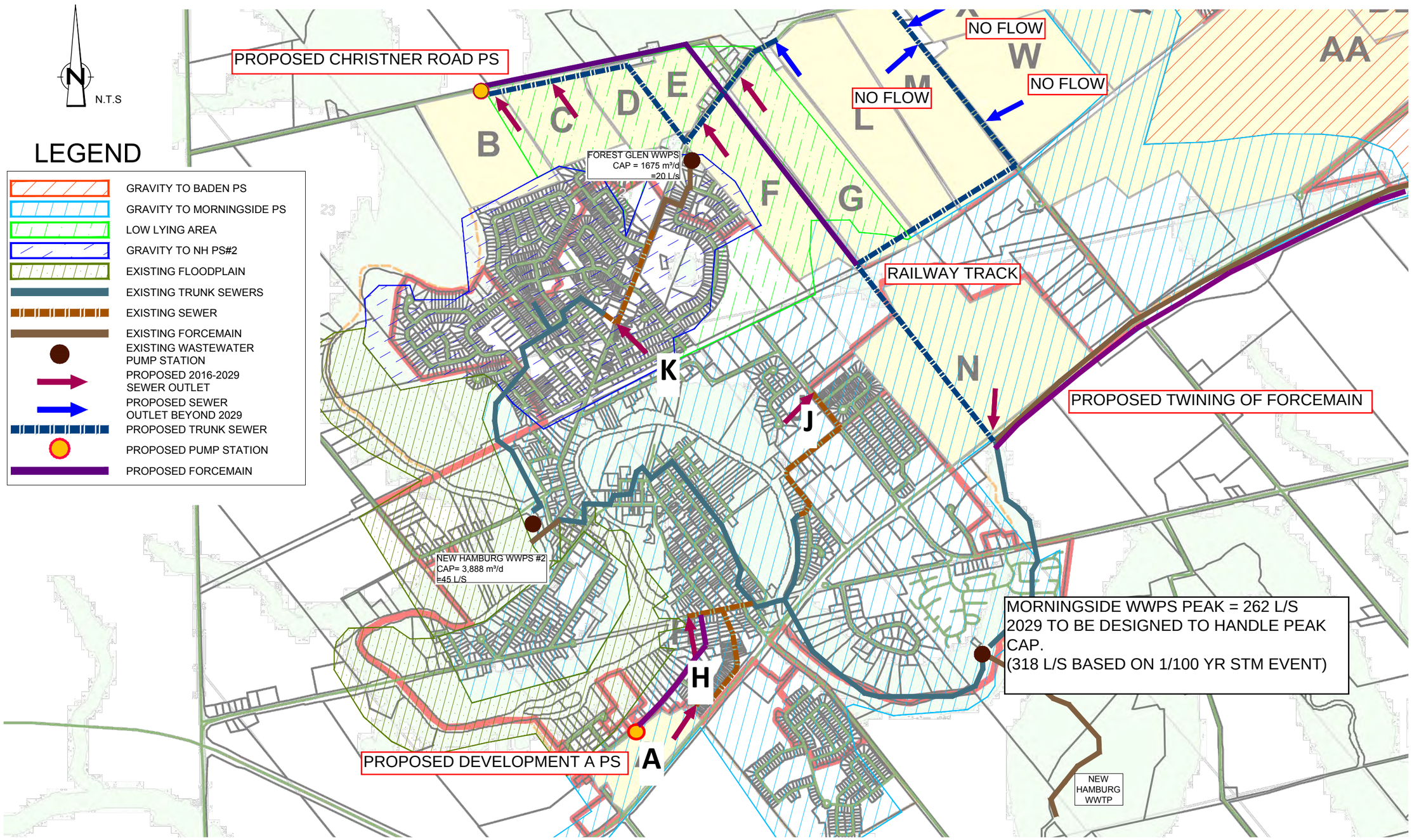

Figure 2-20 Alternative B - Proposed Sanitary Linear Infrastructure and Pump Stations - New Hamburg

Wastewater Servicing Study for New Growth Areas in Baden and New Hamburg

Township of Wilmot

78251-10(MEMO002)GN-WA004 AUG 8/2013

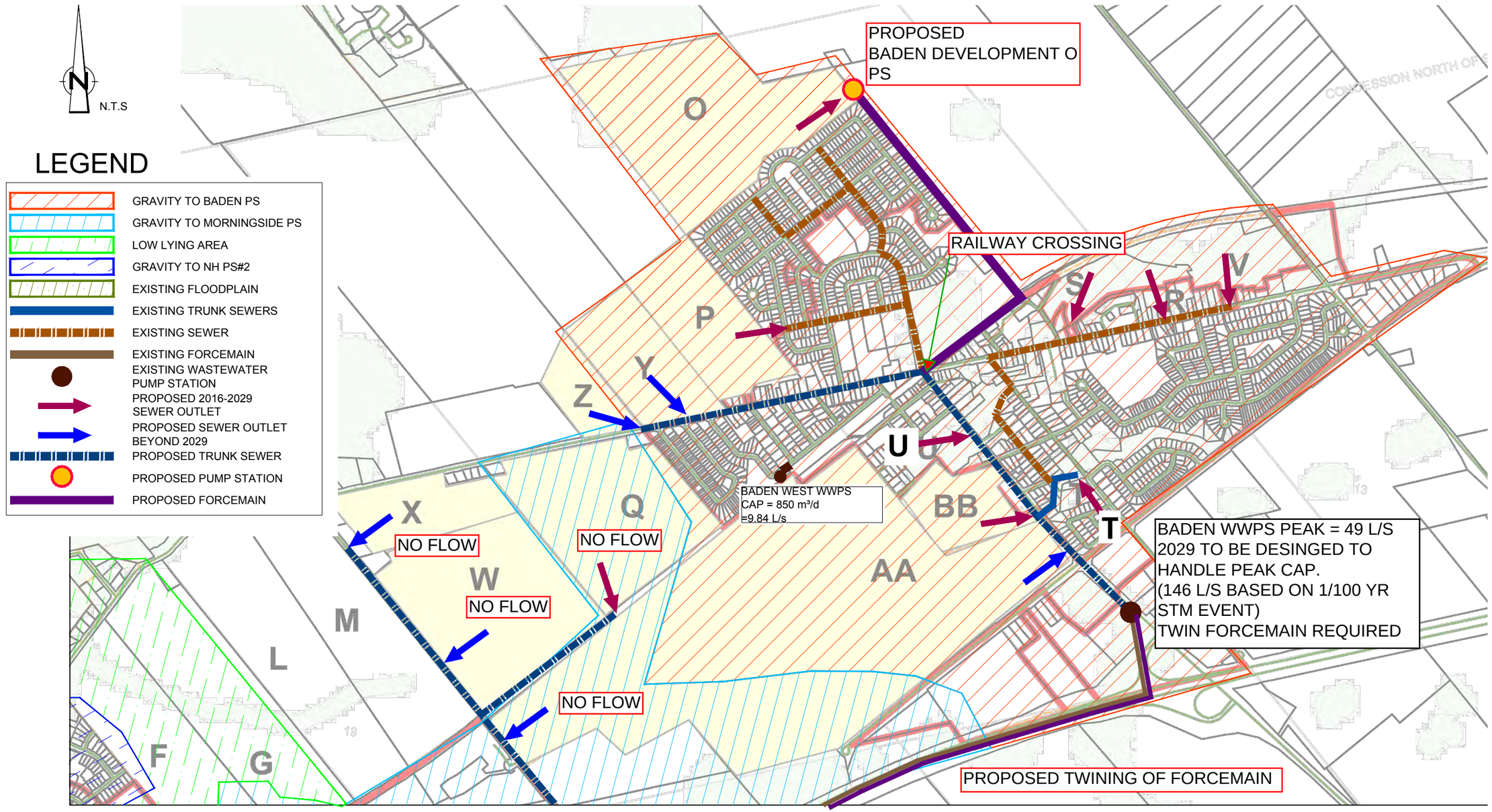

Figure 2-21 Alternative C - Proposed Sanitary Linear Infrastructure and Pump Stations - Baden

Wastewater Servicing Study for New Growth Areas in Baden and New Hamburg

Township of Wilmot

78251-10(MEMO002)GN-WA005 AUG 8/2013

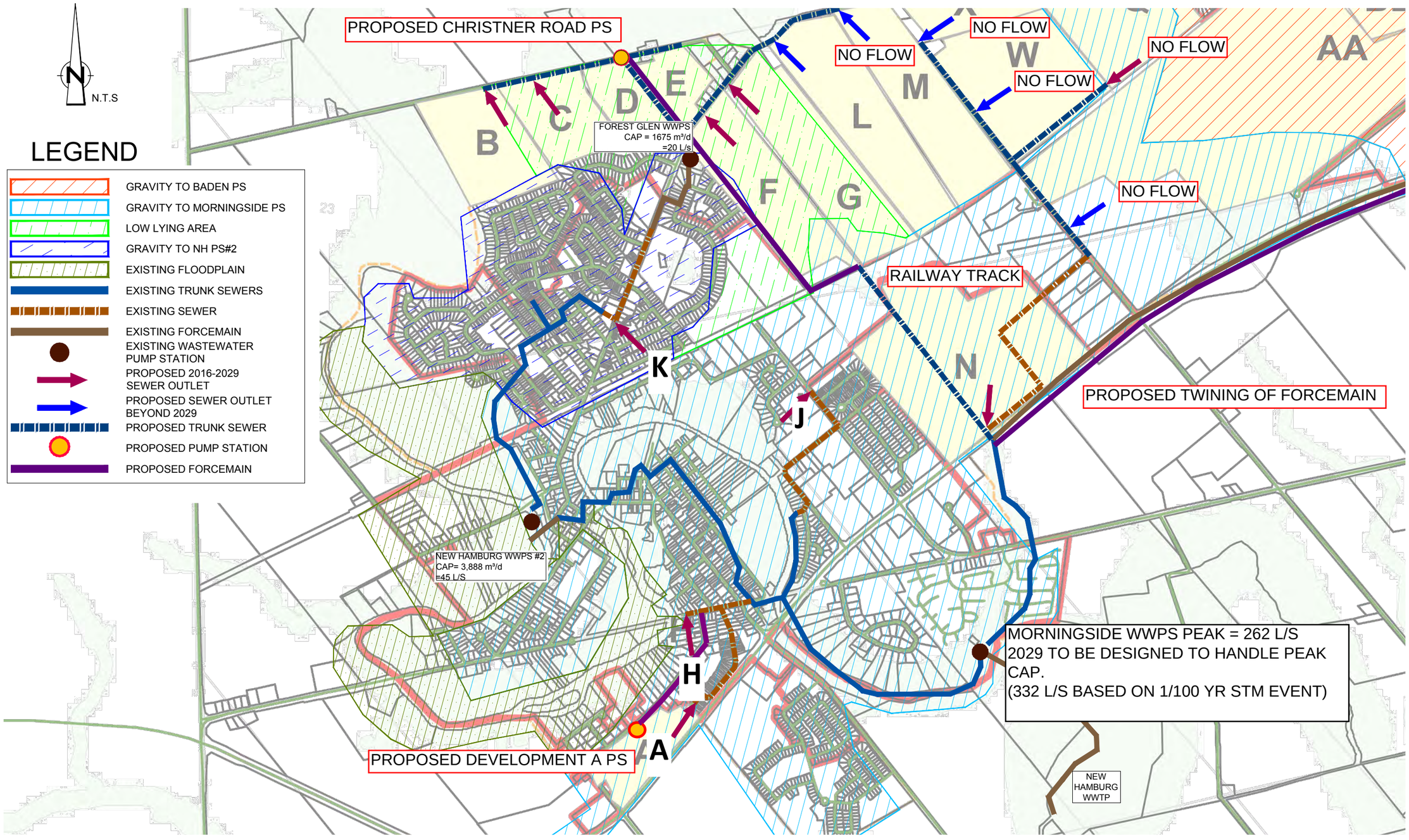

Figure 2-22 Alternative C - Proposed Sanitary Linear Infrastructure and Pump Stations - New Hamburg

Wastewater Servicing Study for New Growth Areas in Baden and New Hamburg

Township of Wilmot

78251-10(MEMO002)GN-WA005 AUG 8/2013

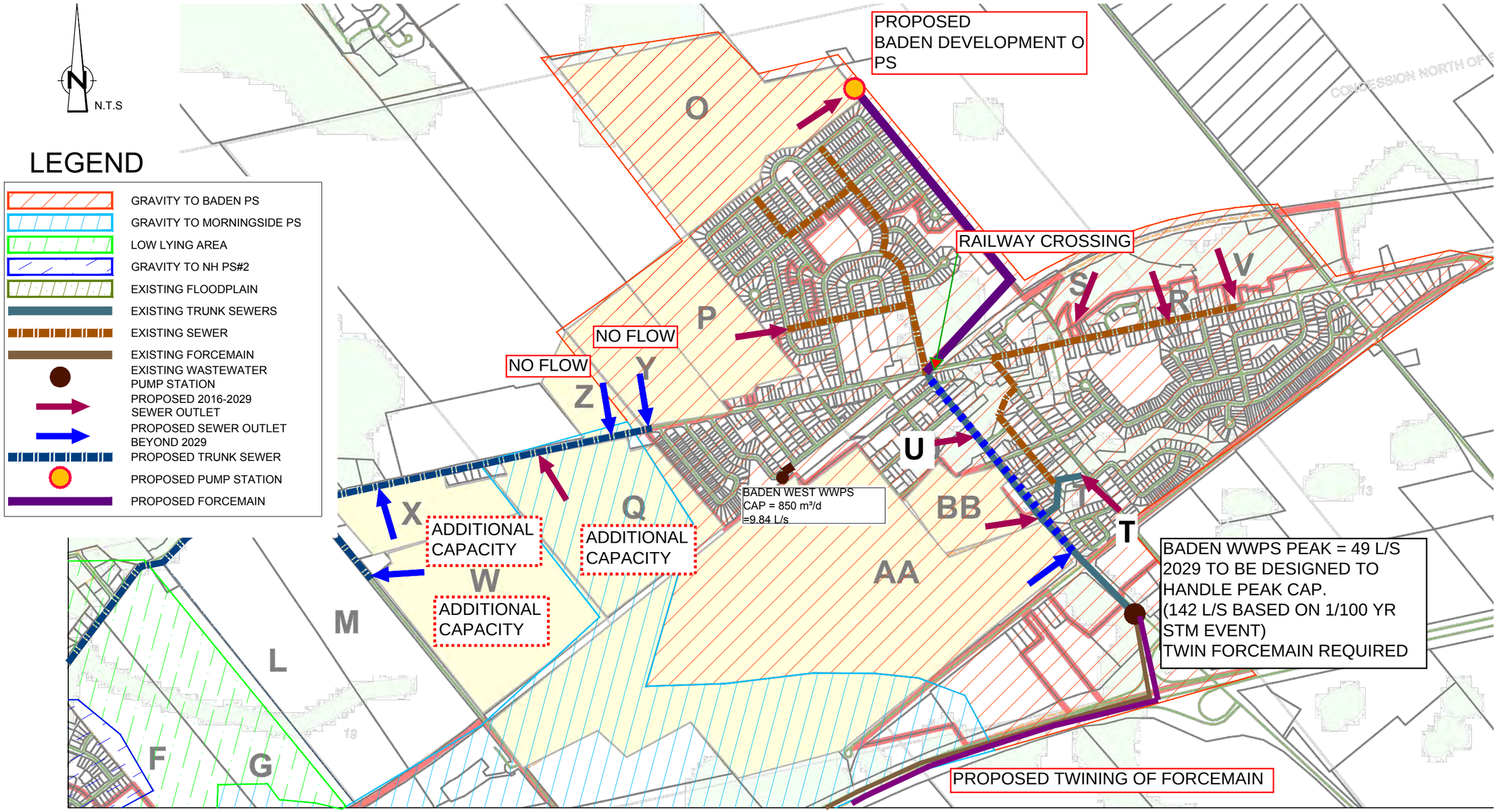

Figure 2-23 Alternative D - Proposed Sanitary Linear Infrastructure and Pump Stations - Baden

Wastewater Servicing Study for New Growth Areas in Baden and New Hamburg

Township of Wilmot

78251-10(MEMO002)GN-WA006 AUG 8/2013

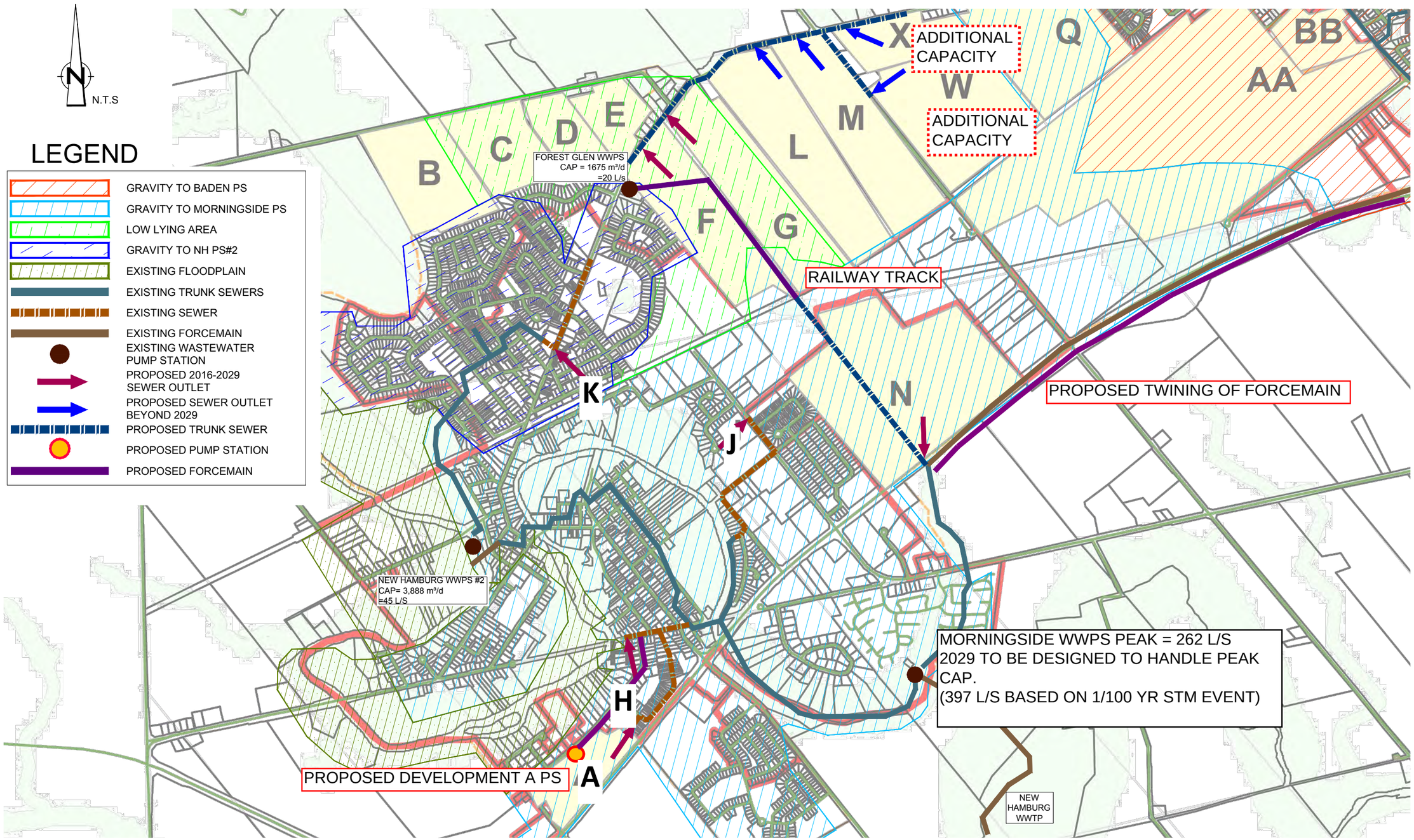

Figure 2-24 Alternative D - Proposed Sanitary Linear Infrastructure and Pump Stations - New Hamburg

Wastewater Servicing Study for New Growth Areas in Baden and New Hamburg

Township of Wilmot

78251-10(MEMO002)GN-WA006 AUG 8/2013

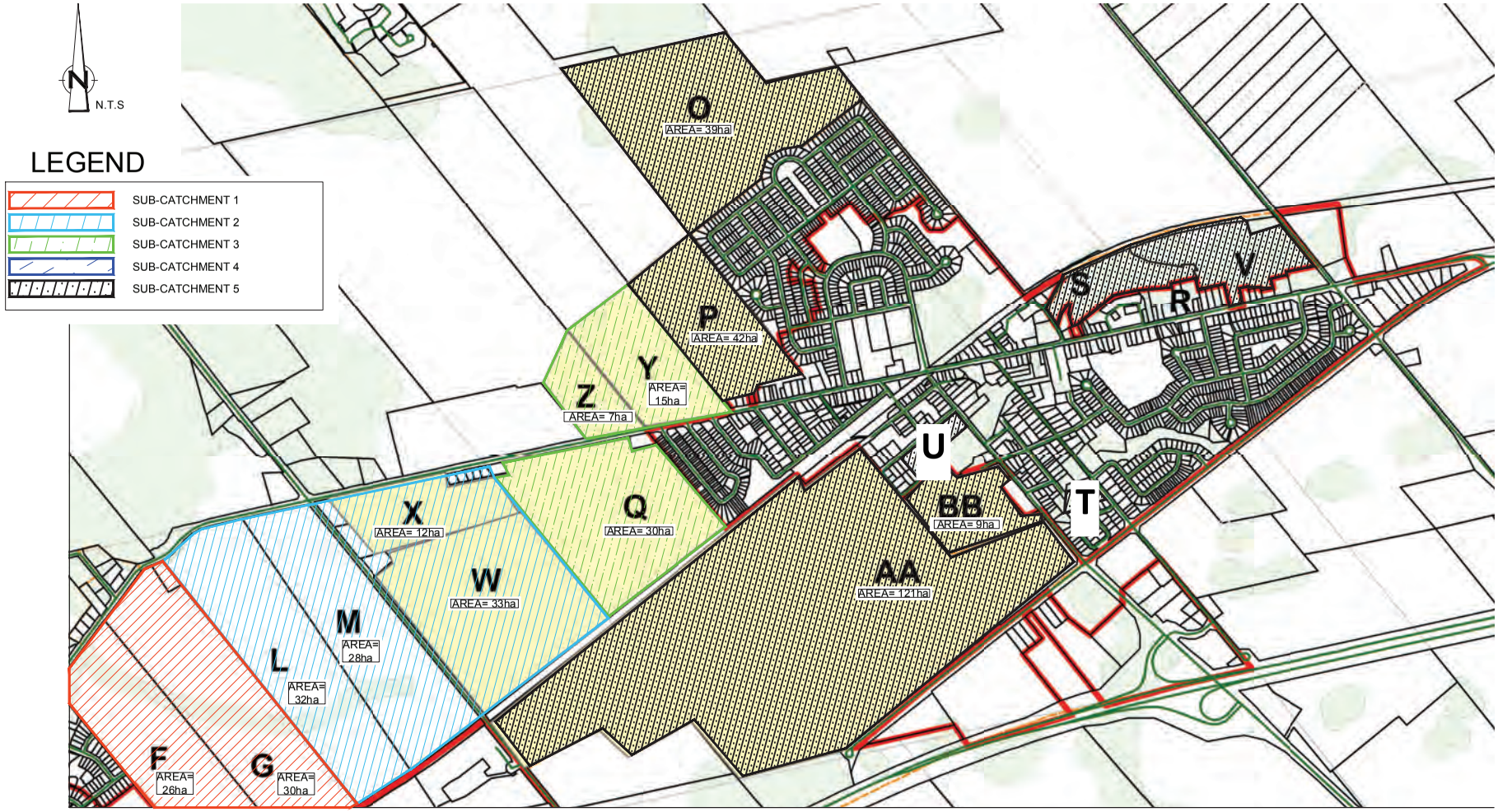

Figure 2-25 Sanitary Evaluation Sub-Catchment Areas - Baden

Wastewater Servicing Study for New Growth Areas in Baden and New Hamburg

Township of Wilmot

78251-10(MEMO002)GN-WA007 MAR 26/2013

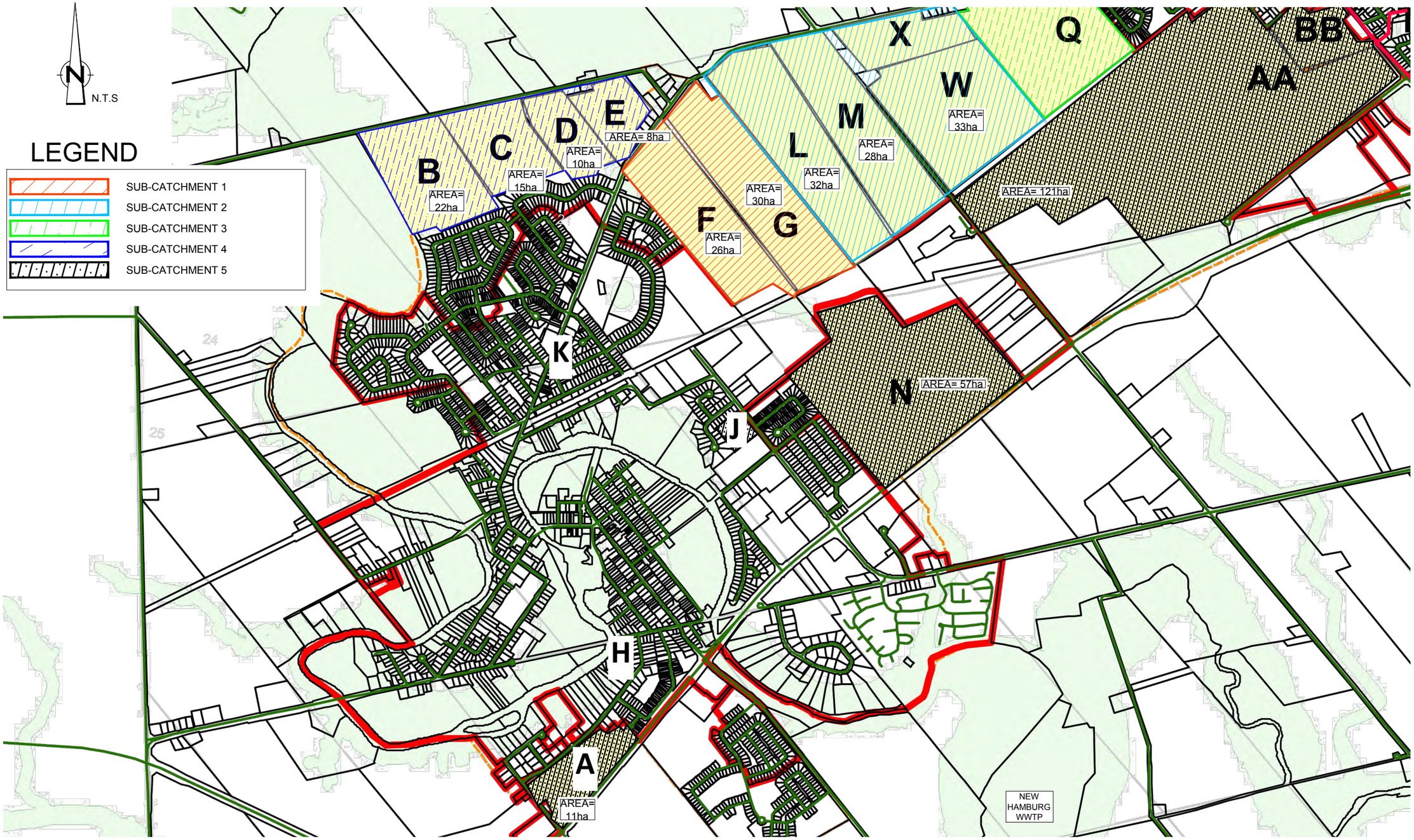

Figure 2-26 Sanitary Evaluation Sub-Catchment Areas - New Hamburg

Wastewater Servicing Study for New Growth Areas in Baden and New Hamburg

Township of Wilmot

78251-10(MEMO002)GN-WA007 MAR 25/2013

Wastewater Servicing Study for New Growth Areas
Baden and New Hamburg

SAMPLE Evaluation Matrix for Sanitary Servicing Alternatives

Evaluation Criteria	**Alternative A** Sub-Catchments (1 to 5) Grading Scale (0 to 5)	**Alternative B** Sub-Catchments (1 to 5) Grading Scale (0 to 5)	**Alternative C** Sub-Catchments (1 to 5) Grading Scale (0 to 5)	**Alternative D** Sub-Catchments (1 to 5) Grading Scale (0 to 5)	**Highest Sub-Catchment Score**
1) Hydraulic Compatibility Weighted Factor 10%	1. Scale x 10% = Product	1.	1.	1.	
	2.	2.	2.	2.	
	3.	3.	3.	3.	
	4.	4.	4.	4.	
	5.	5.	5.	5.	
2) Development Timing Weighted Factor 5%	1. Scale x 5% = Product	1.	1.	1.	
	2.	2.	2.	2.	
	3.	3.	3.	3.	
	4.	4.	4.	4.	
	5.	5.	5.	5.	
3) Public/Environmental Disturbance Weighted Factor 20%	1. Scale x 20% = Product	1.	1.	1.	
	2.	2.	2.	2.	
	3.	3.	3.	3.	
	4.	4.	4.	4.	
	5.	5.	5.	5.	
4) Indicative Cost Estimate Weighted Factor 65%	1. Scale x 65% = Product	1.	1.	1.	
	2.	2.	2.	2.	
	3.	3.	3.	3.	
	4.	4.	4.	4.	
	5.	5.	5.	5.	
RESULTING CATCHMENT TOTALS FOR ALTERNATIVE	A Total 1. = 1)1.+2)1.+3)1.+4)1.	B Total 1. = 1)1.+2)1.+3)1.+4)1.	C Total 1. = 1)1.+2)1.+3)1.+4)1.	D Total 1. = 1)1.+2)1.+3)1.+4)1.	**S. CAT 1-ALT C**
	A Total 2. = 1)2.+2)2.+3)2.+4)2.	B Total 2. = 1)2.+2)2.+3)2.+4)2.	C Total 2. = 1)2.+2)2.+3)2.+4)2.	D Total 2. = 1)2.+2)2.+3)2.+4)2.	**S. CAT 2-ALT B**
	A Total 3. = 1)3.+2)3.+3)3.+4)3.	B Total 3. = 1)3.+2)3.+3)3.+4)3.	C Total 3. = 1)3.+2)3.+3)3.+4)3.	D Total 3. = 1)3.+2)3.+3)3.+4)3.	**S. CAT 3-ALT A**
	A Total 4. = 1)4.+2)4.+3)4.+4)4.	B Total 4. = 1)4.+2)4.+3)4.+4)4.	C Total 4. = 1)4.+2)4.+3)4.+4)4.	D Total 4. = 1)4.+2)4.+3)4.+4)4.	**S. CAT 4-ALT D**
	A Total 5. = 1)5.+2)5.+3)5.+4)5.	B Total 5. = 1)5.+2)5.+3)5.+4)5.	C Total 5. = 1)5.+2)5.+3)5.+4)5.	D Total 5. = 1)5.+2)5.+3)5.+4)5.	**S. CAT 5-ALT C**

Therefore by selecting the highest totals under each Sub-Catchment, the Optimum (SAMPLE) Sanitary Sewer Alternative would include Alternative C solution for Sub Catchment 1, Alternative B for Sub-Catchment 2, Alternative A for Sub-Catchment 3, Alternative D for Sub-Catchment 4 and Alternative C to service Sub-Catchment 5

Figure 2-27 Sample Sanitary Sewer Evaluation Matrix for Baden & New Hamburg