

Regional Municipality of York

# Appendix 5F

## Existing & Proposed

### Impervious Areas

**Prepared by:**

AECOM

**Project #**

60114489

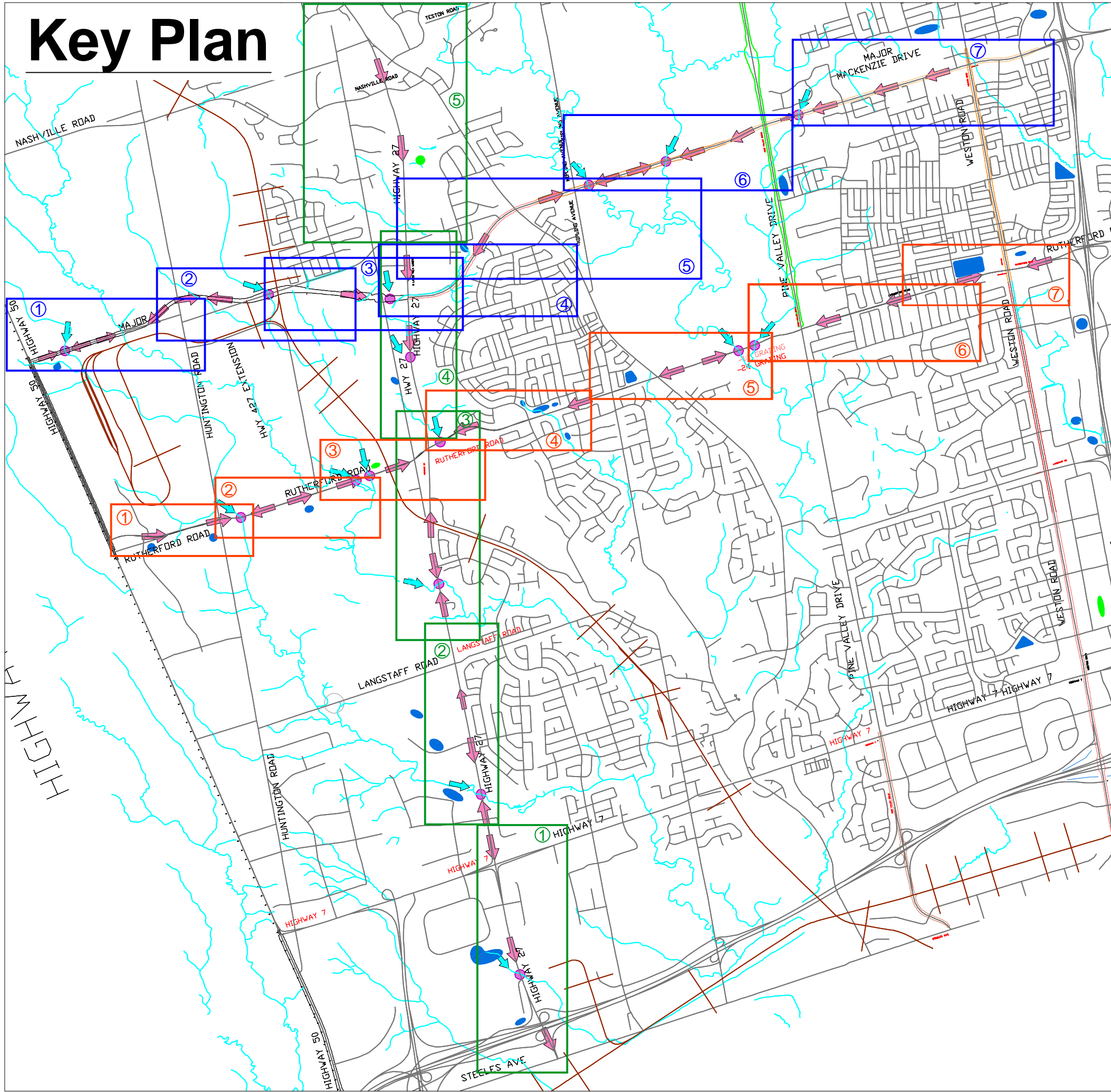
**Date:**

September, 2011

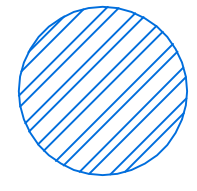
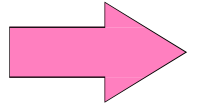
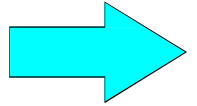
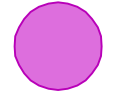
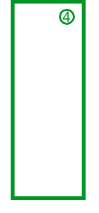

Information on existing and proposed impervious areas associated with the improvements is presented in the table and figures that follow.

Road	Watercourse Crossing	Location	Existing Roadway	Proposed Roadway	Increase	Watercourse Drainage Area (ha)	New Impervious Area / Total Drainage Area
			Total Impervious Area (ha)	Total Impervious Area (ha)	Impervious Area (ha)		
<b>Major Mackenzie Drive</b>	East Rainbow Creek Station 0+368	Between Highway 50 & Huntington Road	0.35	1.86	1.51	174.3	0.87%
	East Robinson Creek Station 0+906	Between Huntington Road & Highway 27	0.50	0.54	0.04	131.6	0.03%
	Main Humber River Station 2+150	Between Huntington Road & Highway 27	1.17	7.18	6.01	29,623.3	0.02%
	East Humber River Station 0+745	Between Islington Avenue & Pine Valley Drive	1.59	4.12	2.53	14,281.9	0.02%
	Purpleville Creek Station 1+480	Between Islington Avenue & Pine Valley Drive	1.43	4.99	3.56	3,446.1	0.10%
	Marigold Creek Station 0+359	Between Pine Valley Drive & Weston Road	1.81	6.09	4.28	162.9	2.63%
<b>Rutherford Road</b>	East Rainbow Creek Station 0+220	Between Highway 50 and Highway 27	1.46	2.68	1.23	532.9	0.23%
	West Robinson Creek Station 1+430	Between Huntington Road & Highway 27	0.35	0.63	0.29	1,716.1	0.02%
	East Robinson Creek Station 1+570	Between Huntington Road & Highway 27	0.22	0.41	0.19	400.3	0.05%
	Main Humber River Station 0+130	Between Highway 27 & Clarence Street	7.74	10.62	2.88	29,623.3	0.01%
	East Humber River Station 0+860	Between Islington Avenue & Pine Valley Drive	1.13	1.59	0.45	18,404.7	0.00%
	Marigold Creek Station 1+027	Between Islington Avenue & Pine Valley Drive	4.92	6.35	1.43	488.6	0.29%
<b>Highway 27</b>	Rainbow Creek Tributary Station 0+927	Between Steeles Avenue & Highway 7	4.25	6.15	1.90	322.0	0.59%
	Rainbow Creek Station 0+710	Between Highway 7 & Langstaff Road	2.49	4.07	1.58	1,856.4	0.09%
	Robinson Creek Station 0+810	Between Langstaff Road & Rutherford Road	3.99	5.56	1.57	2,572.2	0.06%
	Main Humber River Station 0+958	Between Rutherford Road & Nashville Road	9.48	15.59	6.11	29,623.3	0.02%

# Key Plan

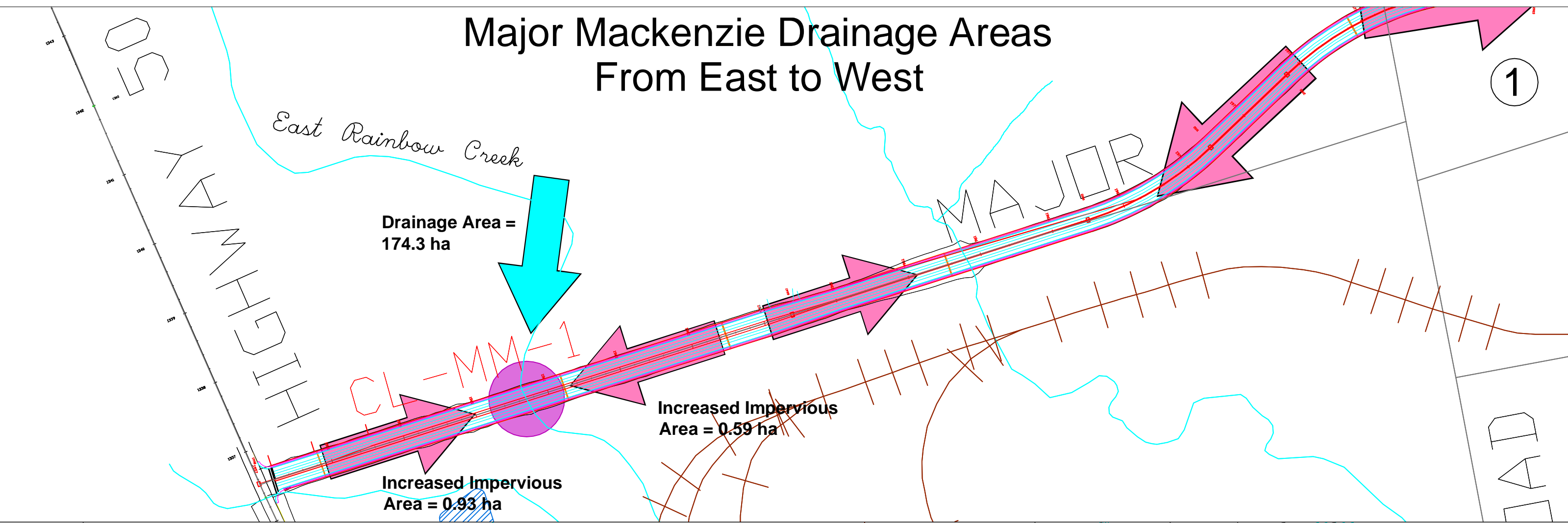


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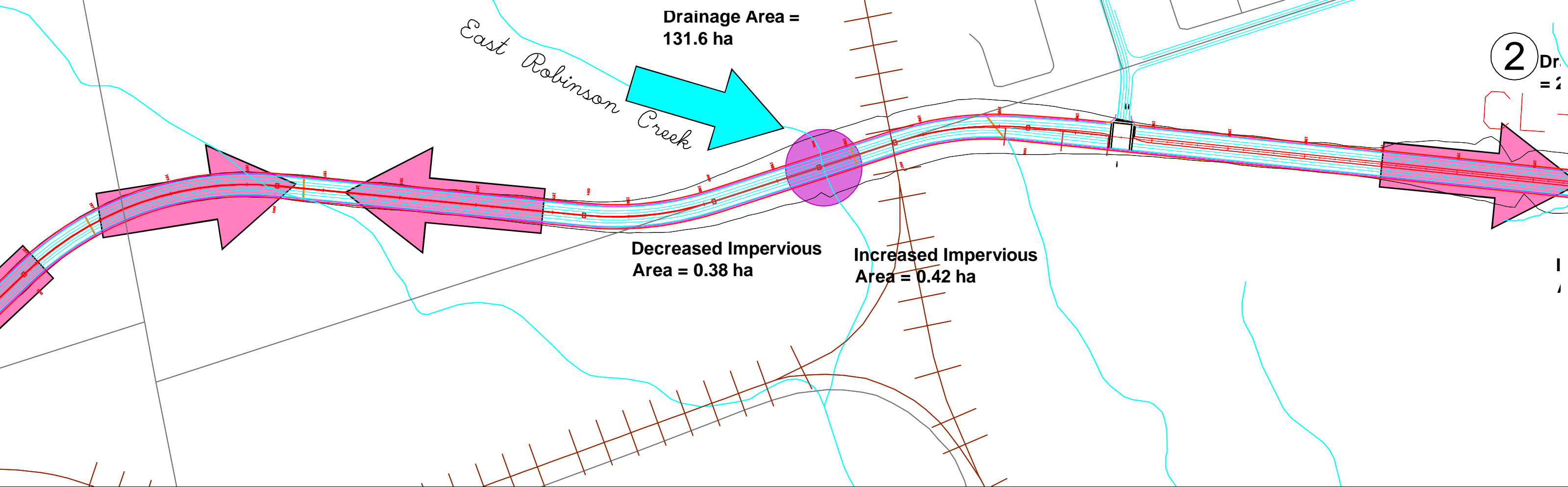
-  Existing stormwater management facility
-  Proposed stormwater flow direction
-  Existing watercourse flow direction
-  Stormwater crossing / Outlet location
-  Hwy 27 Key Plan
-  Major Mackenzie Key Plan
-  Rutherford Key Plan

# Major Mackenzie Drainage Areas From East to West

1



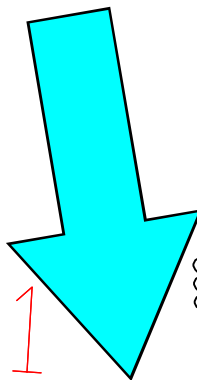
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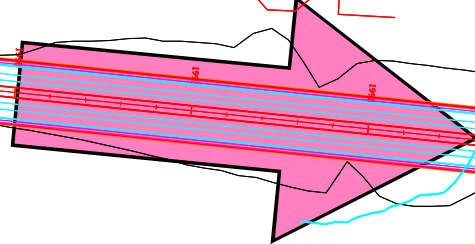
# Major Mackenzie Drainage Areas From East to West

3

Drainage Area  
= 29,623.3 ha



Main  
Humber River



CL-MM-1

CL-MM-4

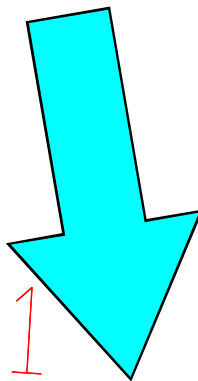
6 LANES TO 4 LANES

Increased Impervious  
Area = 0.42 ha

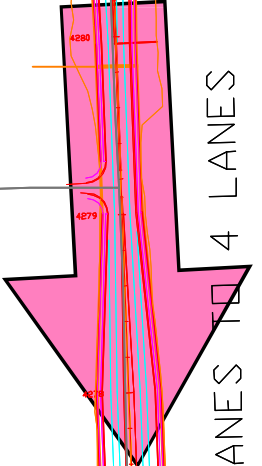
Increased Impervious  
Area = 3.30 ha

Increased  
Impervious  
Area =  
2.71 ha

4

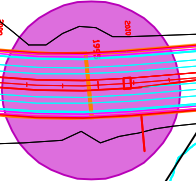


Main  
Humber River



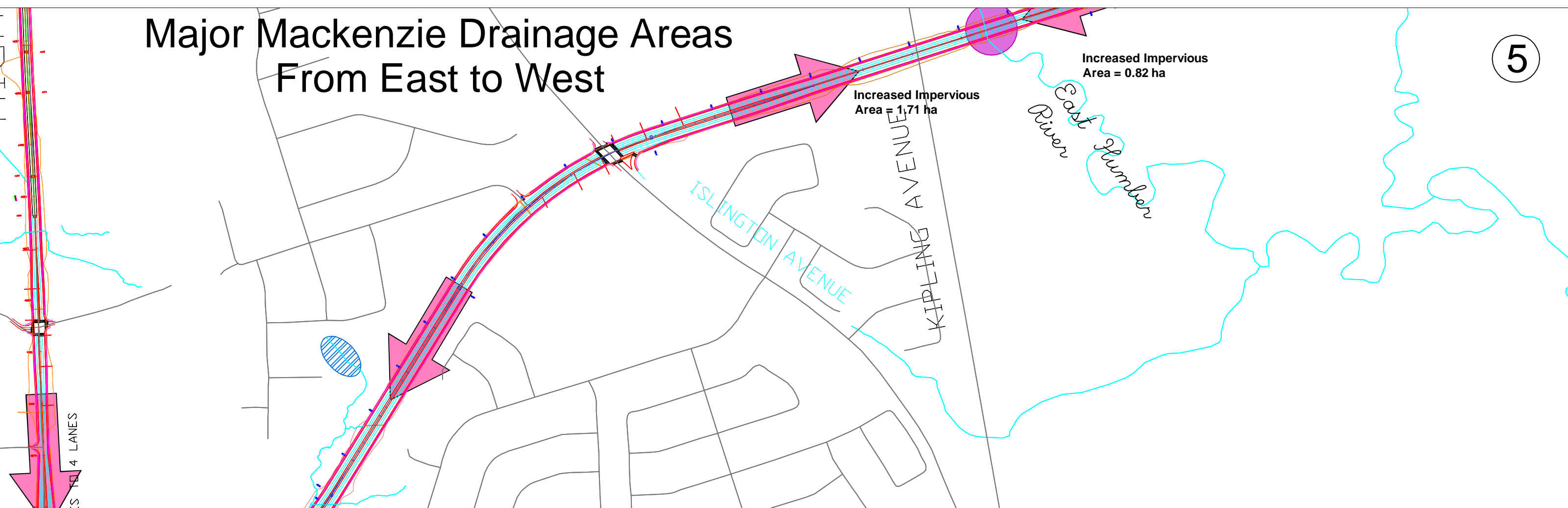
6 LANES TO 4 LANES

CL-MM-4

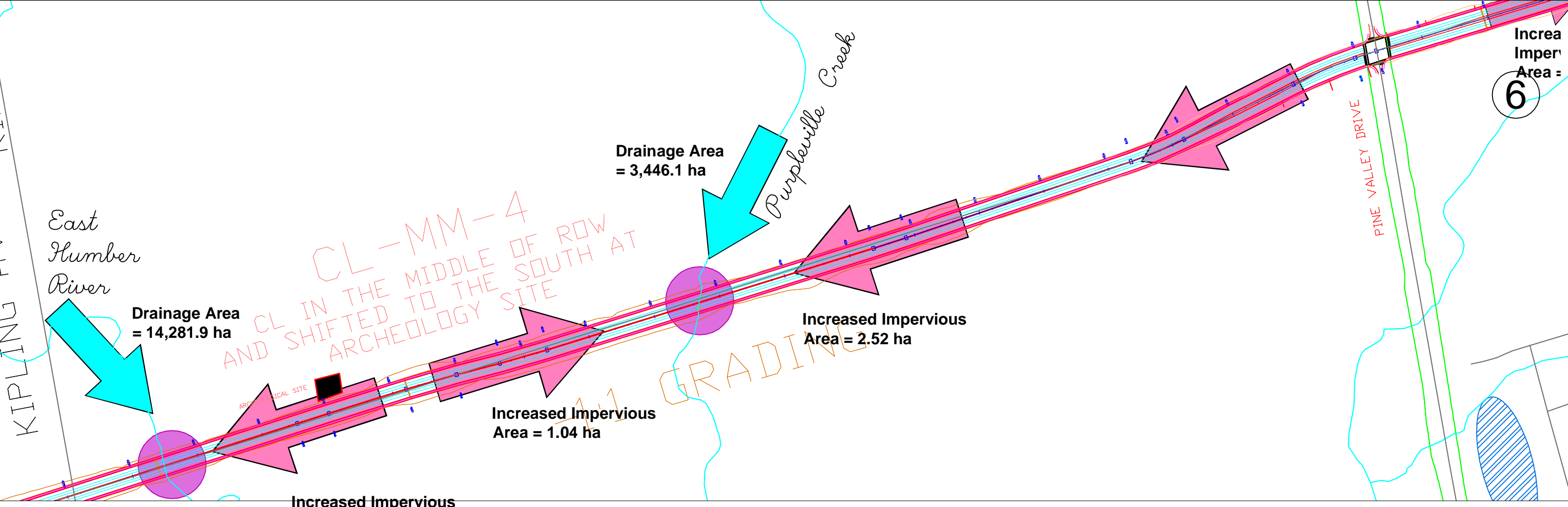


# Major Mackenzie Drainage Areas From East to West

5



6



# Major Mackenzie Drainage Areas From East to West

7

Marigold Creek

MAJOR  
MACKENZIE DRIVE

Drainage Area  
= 162.9 ha

CL-MM-4

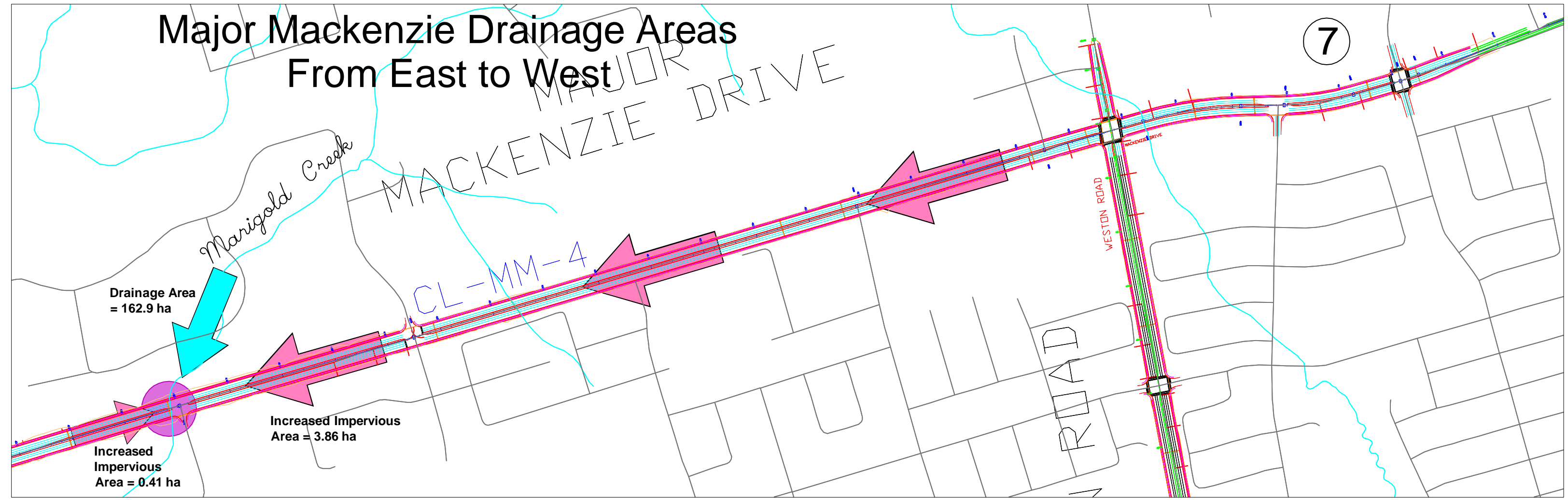
Increased Impervious  
Area = 3.86 ha

Increased  
Impervious  
Area = 0.41 ha

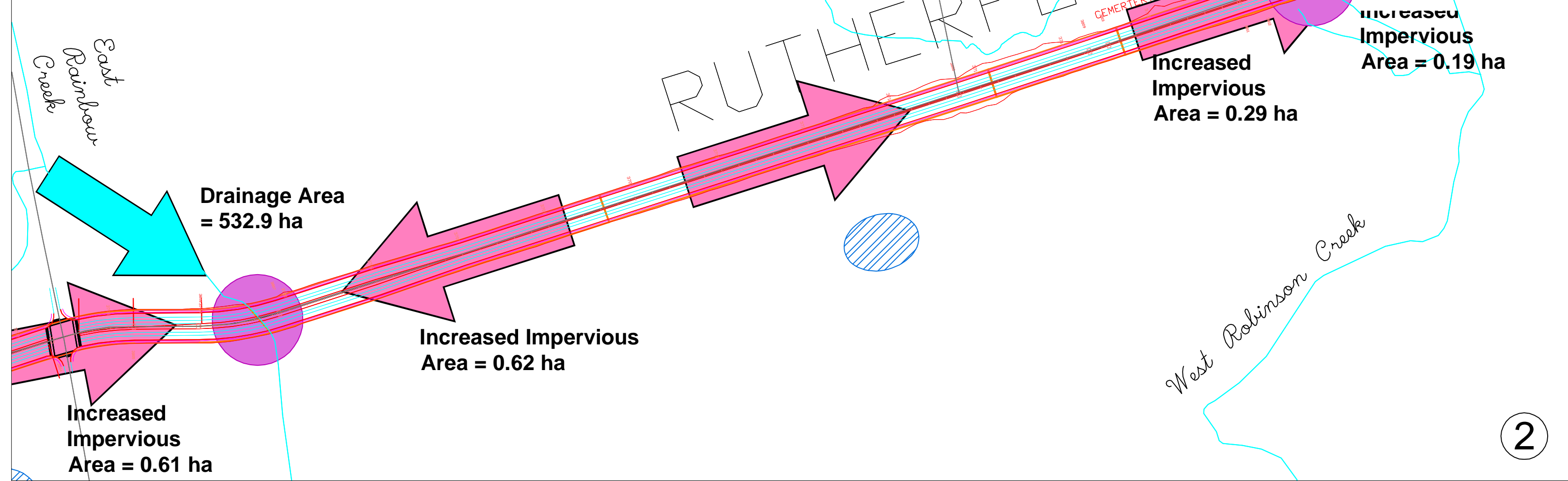
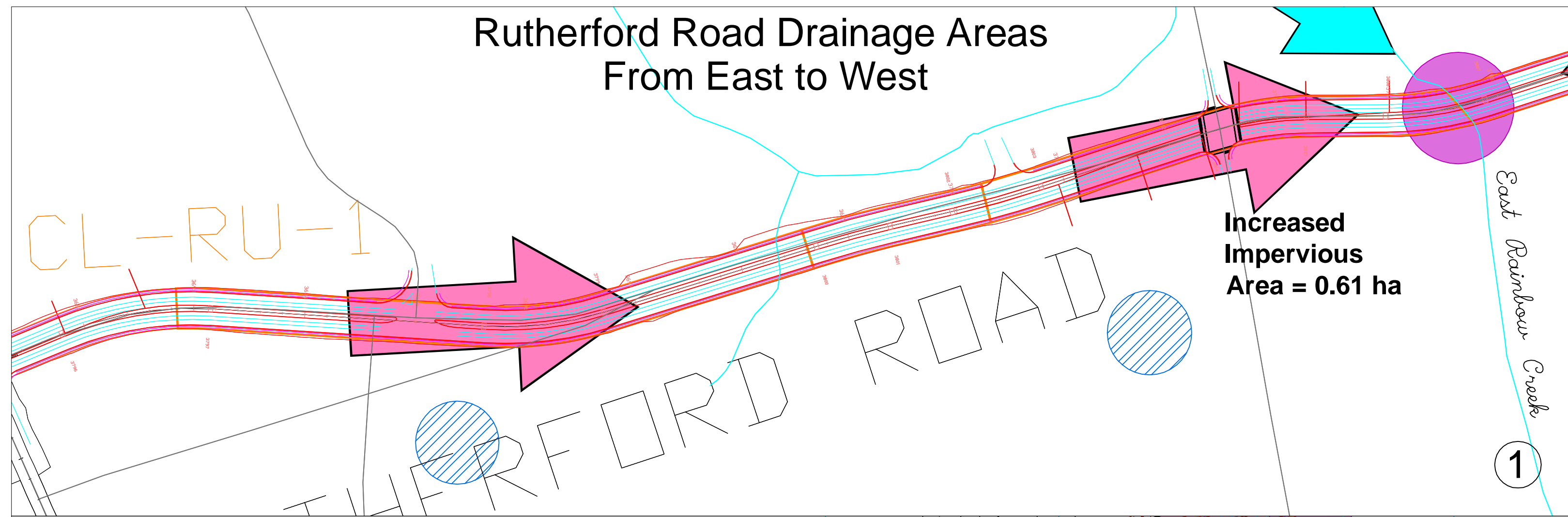
WESTON ROAD

ROAD

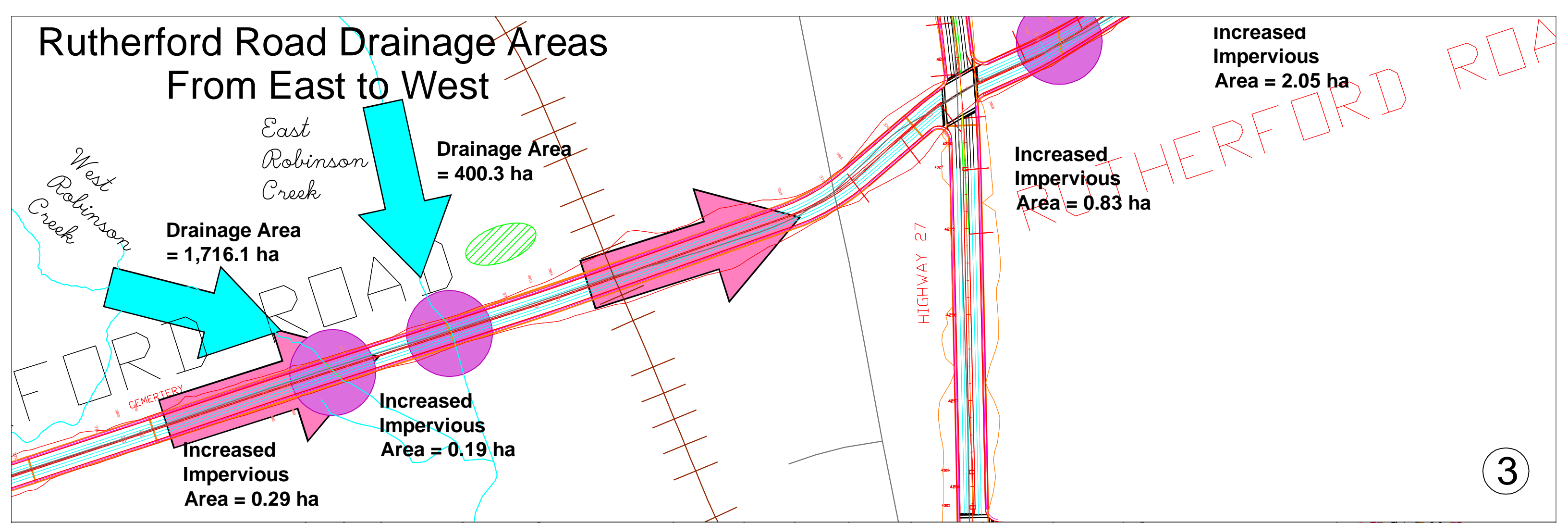
MACKENZIE DRIVE



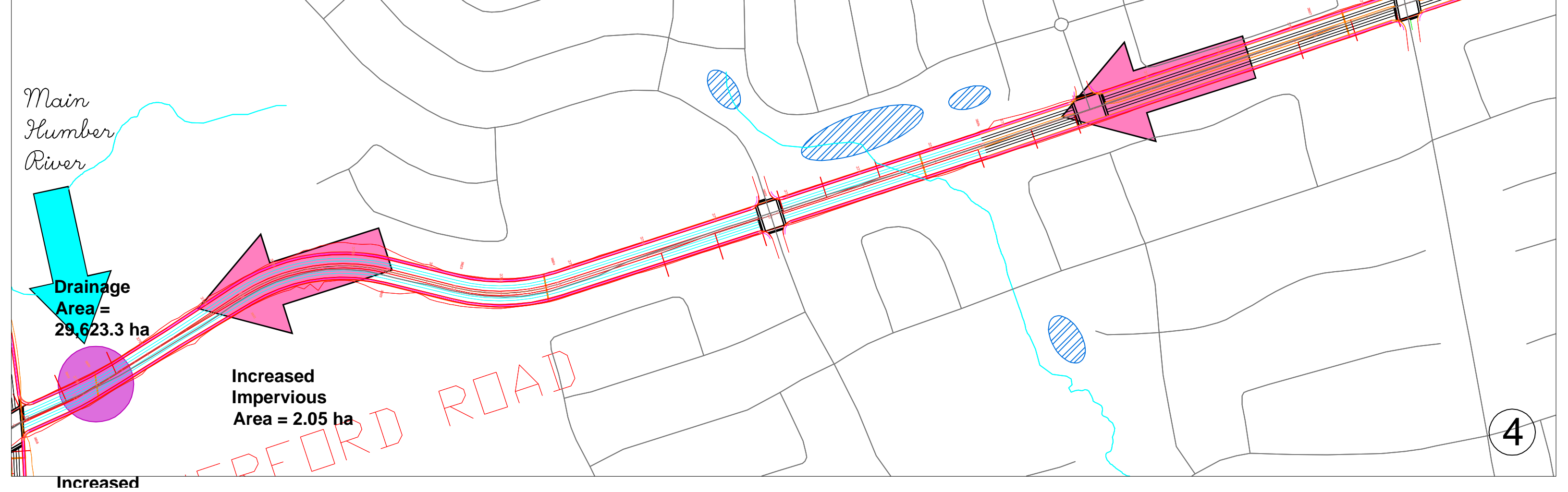
# Rutherford Road Drainage Areas From East to West



# Rutherford Road Drainage Areas From East to West



3



4

# Rutherford Road Drainage Areas From East to West

Drainage  
Area =  
18,404.7 ha

*East  
Flumber  
River*

*Marigold  
Creek*

**Increased  
Impervious  
Area = 0.20 ha**

**Increased Impervious  
Area = 0.45 ha**

ISLINGTON AVENUE

5

RUTHERFORD ROAD

*Marigold  
Creek*

**Drainage Area  
= 488.6 ha**

**Increased  
Impervious  
Area = 1.23 ha**

**Increased  
Impervious  
Area = 0.20 ha**

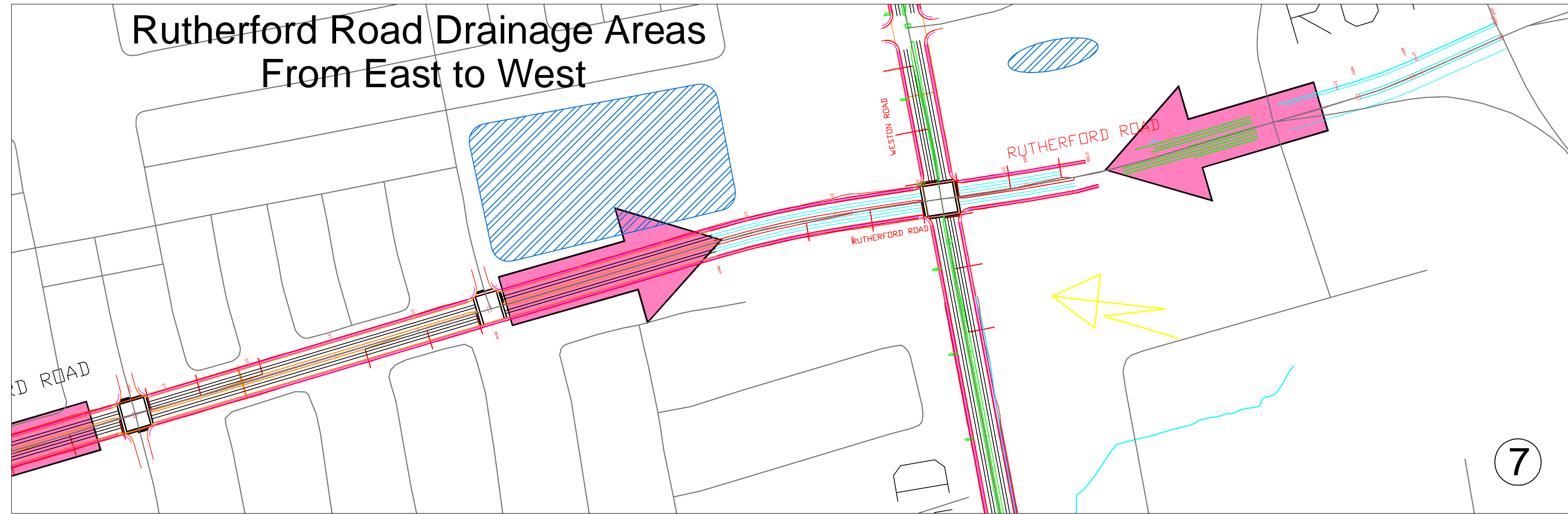
6

PINE VALLEY DRIVE

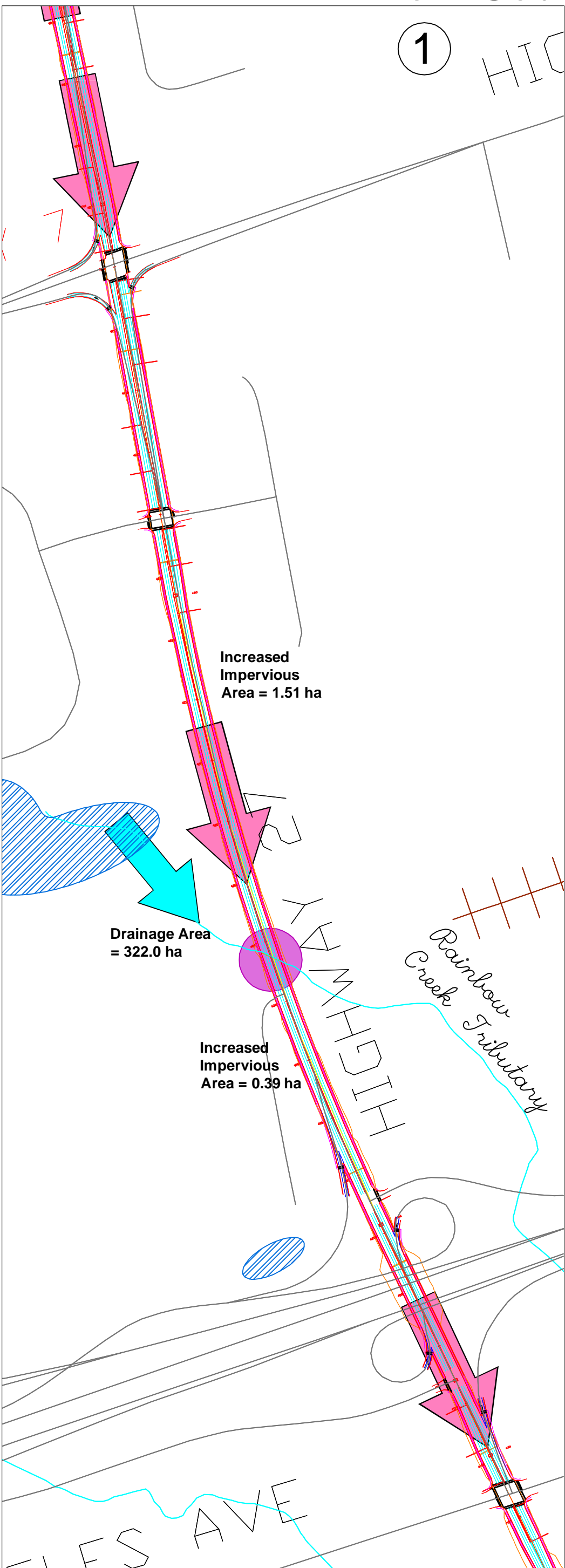
TRADING

GRAI

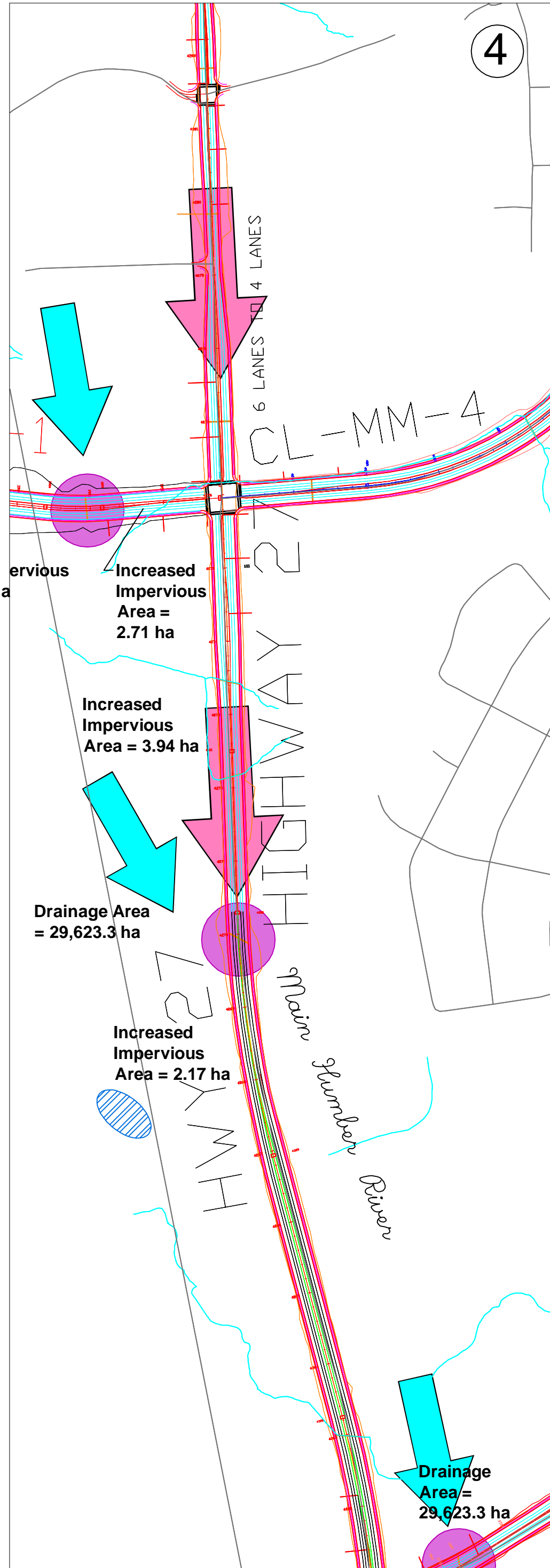
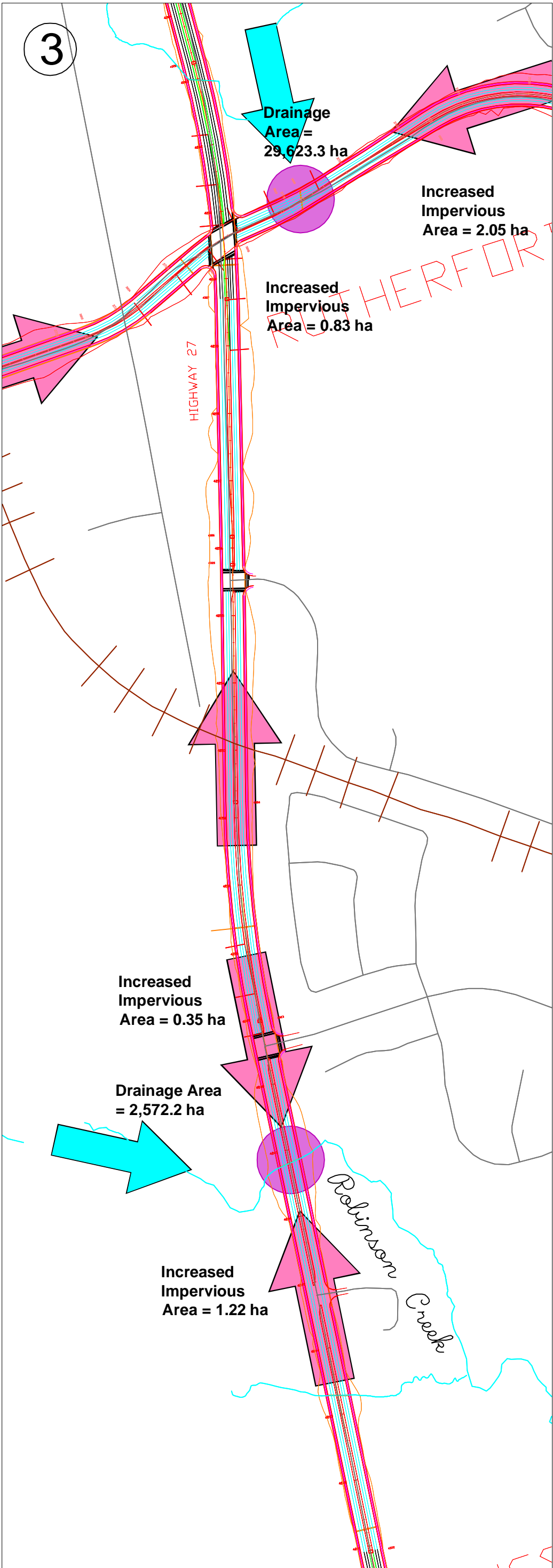
# Rutherford Road Drainage Areas From East to West



# Highway 27 Drainage Areas From South to North



# Highway 27 Drainage Areas From South to North



# Highway 27 Drainage Areas From South to North

