

<b>WEST ROAD PRELIMINARY ASSESSMENT</b>			
SECT	SURFACE: ASPHALT	STATION RANGE	
1A		0+000	2+250
FROM	OLIPHANT WAY	TO	SPRY LAKE
COUNTY OP DESIGNATION	COLLECTOR RURAL		
CONSTRUCTION HISTORY	1975	Approx.	
POSTED SPEED (km/h)	60		
DESIGN SPEED (km/h)	70		
JULY 2015 DAILY TRAFFIC VOLUME	2400	WRA	

<b>GEOMETRIC DESIGN ELEMENTS</b>	<b>EXISTING</b>	<b>DESIGN</b>	
<b>ALIGNMENT</b>			
VERTICAL CURVES	FLAT		
CREST (K)	NA	25	
SAG (K)	NA	25	
HORIZONTAL CURVE RADII (m)	NA	190	
LOCATION ON ROW	CENTRED	CENTRED	
<b>PLATFORM</b>			
LANE WIDTH (m)	3.66	3.35	
SHOULDER WIDTH (m)	1.04	1.5	
TOTAL PLATFORM WIDTH	9.4	9.7	
<b>RIGHT OF WAY (m)</b>	20.117		
<b>DRAINAGE</b>	<ul style="list-style-type: none"> <li>road drainage overall poor lack of ditching</li> <li>High groundwater table</li> </ul>		
<b>TOPOGRAPHY</b>	<ul style="list-style-type: none"> <li>Flat, Sand Dunes, (Plainfield )</li> <li>Sand Dune (remnants of Lake Nipissing)</li> </ul>		
<b>VEGETATION</b>	<ul style="list-style-type: none"> <li>Mixed Deciduous/Coniferous</li> </ul>		
<b>Geotechnical</b>	<ul style="list-style-type: none"> <li>BH 1-11</li> </ul>		
<b>Utilities</b>	<ul style="list-style-type: none"> <li>Hydro/Telephone/CATV</li> </ul>		
<b>Comments</b>	<ul style="list-style-type: none"> <li></li> </ul>		

<b>WEST ROAD PRELIMINARY ASSESSMENT</b>			
SECT	SURFACE: ASPHALT	STATION RANGE	
1B		2+250	3+120
FROM	SPRY LAKE	TO	HEMLOCK RD
COUNTY OP DESIGNATION	COLLECTOR RURAL		
CONSTRUCTION HISTORY	1991	Approx.	
POSTED SPEED (km/h)	50		
DESIGN SPEED (km/h)	60		
JULY 2015 DAILY TRAFFIC VOLUME	1430	WRB	

<b>GEOMETRIC DESIGN ELEMENTS</b>	<b>EXISTING</b>	<b>DESIGN</b>	
<b>ALIGNMENT</b>			
VERTICAL CURVES			
CREST (K)	32	15	
SAG (K)	19	18	
HORIZONTAL CURVE RADII (m)	1000	130	
LOCATION ON ROW	<b>O/S 2.0m RT OF CL</b>	CENTRED	
<b>PLATFORM</b>			
LANE WIDTH (m)	3.4	3.35	
SHOULDER WIDTH (m)	1.95	1.5	
TOTAL PLATFORM WIDTH	10.7	9.7	
<b>RIGHT OF WAY (m)</b>	30.48		
<b>DRAINAGE</b>	<ul style="list-style-type: none"> <li>road drainage overall poor lack of ditching</li> <li>High groundwater table</li> <li>extensive ditch ponding on west side from 2+340 to 2+670</li> </ul>		
<b>TOPOGRAPHY</b>	<ul style="list-style-type: none"> <li>Flat, Sand Dunes, (Plainfield )</li> <li>Sand Dune (remnants of Lake Nipissing)</li> </ul>		
<b>VEGETATION</b>	<ul style="list-style-type: none"> <li>Mixed Deciduous/Coniferous</li> </ul>		
<b>Geotechnical</b>	<ul style="list-style-type: none"> <li>BH 12-16</li> </ul>		
<b>Utilities</b>	<ul style="list-style-type: none"> <li>Hydro/Telephone/CATV</li> </ul>		
<b>Comments</b>	<ul style="list-style-type: none"> <li></li> </ul>		

<b>WEST ROAD PRELIMINARY ASSESSMENT</b>			
SECT	SURFACE: ASPHALT	STATION RANGE	
2A		3+120	4+360
FROM	HEMLOCK RD	TO	AMABEL/ALBERMARLE BNDY
COUNTY OP DESIGNATION		COLLECTOR RURAL	
CONSTRUCTION HISTORY		1992	Approx.
POSTED SPEED (km/h)		80	
DESIGN SPEED (km/h)		90	
JULY 2015 DAILY TRAFFIC VOLUME		1430	WRB

<b>GEOMETRIC DESIGN ELEMENTS</b>	<b>EXISTING</b>	<b>DESIGN</b>	
<b>ALIGNMENT</b>			
VERTICAL CURVES	FLAT		
CREST (K)		50	
SAG (K)		40	
HORIZONTAL CURVE RADII (m)	NA	340	
LOCATION ON ROW	CENTRED	CENTRED	
<b>PLATFORM</b>			
LANE WIDTH (m)	3.4	3.35	
SHOULDER WIDTH (m)	1.5	1.5	
TOTAL PLATFORM WIDTH	9.8	9.7	
<b>RIGHT OF WAY (m)</b>	30.48		
<b>DRAINAGE</b>			
<ul style="list-style-type: none"> <li>Wetland</li> <li>High groundwater table</li> </ul>			
<b>TOPOGRAPHY</b>			
<ul style="list-style-type: none"> <li>Wetland</li> </ul>			
<b>VEGETATION</b>			
<ul style="list-style-type: none"> <li>Mixed Deciduous/Coniferous</li> </ul>			
<b>Geotechnical</b>			
<ul style="list-style-type: none"> <li>BH 17-22</li> </ul>			
<b>Utilities</b>			
<ul style="list-style-type: none"> <li>Hydro/Telephone/CATV</li> </ul>			
<b>Comments</b>			
<ul style="list-style-type: none"> <li></li> </ul>			

<b>WEST ROAD PRELIMINARY ASSESSMENT</b>			
SECT	SURFACE:	STATION RANGE	
2B	ASPHALT	4+360	7+230
FROM	AMABEL/ALBERMARLE BNDY	TO	KOWEL LANE
COUNTY OP DESIGNATION	COLLECTOR RURAL		
CONSTRUCTION HISTORY	1992	Approx.	
POSTED SPEED (km/h)	80		
DESIGN SPEED (km/h)	90		
JULY 2015 DAILY TRAFFIC VOLUME	1430	WRB	

<b>GEOMETRIC DESIGN ELEMENTS</b>	<b>EXISTING</b>	<b>DESIGN</b>	
<b>ALIGNMENT</b>			
VERTICAL CURVES	FLAT		
CREST (K)		50	
SAG (K)		40	
HORIZONTAL CURVE RADII (m)	NA	340	
LOCATION ON ROW	<b>VARIES FROM 0m O/S TO 3m O/S LT</b>		
10m Encroachments	<b>4+370 to 5+580</b>		
<b>PLATFORM</b>			
LANE WIDTH (m)	3.4	3.35	
SHOULDER WIDTH (m)	1.45	1.5	
TOTAL PLATFORM WIDTH	9.7	9.7	
<b>RIGHT OF WAY (m)</b>	20.117		
<b>DRAINAGE</b>			
<ul style="list-style-type: none"> <li>Wetland</li> <li>High groundwater table</li> </ul>			
<b>TOPOGRAPHY</b>			
<ul style="list-style-type: none"> <li>Wetland/Low Lying Dunes</li> </ul>			
<b>VEGETATION</b>			
<ul style="list-style-type: none"> <li>Mixed Deciduous/Coniferous</li> </ul>			
<b>Geotechnical</b>			
<ul style="list-style-type: none"> <li>BH 23-37</li> </ul>			
<b>Utilities</b>			
<ul style="list-style-type: none"> <li>Hydro/Telephone/CATV</li> </ul>			
<b>Comments</b>			
<ul style="list-style-type: none"> <li></li> </ul>			

<b>WEST ROAD PRELIMINARY ASSESSMENT</b>		
SECT	SURFACE: ASPHALT	STATION RANGE
3		7+230 11+350
FROM KOWEL LANE		TO HOWDENVALE ROAD
COUNTY OP DESIGNATION	COLLECTOR URBAN	
CONSTRUCTION HISTORY	Approx.	
POSTED SPEED (km/h)	50	
DESIGN SPEED (km/h)	60	
JULY 2015 DAILY TRAFFIC VOLUME	750	WRB1

<b>GEOMETRIC DESIGN ELEMENTS</b>	<b>EXISTING</b>	<b>DESIGN</b>	
<b>ALIGNMENT</b>			
VERTICAL CURVES	FLAT		
CREST (K)	1 deficient	15	
SAG (K)	4 deficient	18	
HORIZONTAL CURVE RADII (m)	Acceptable (min 190m)	130	
LOCATION ON ROW	<b>MEANDERS</b>	CENTRED	
10m Encroachments	<b>8+225 to 8+275 Lt</b> <b>8+310 TO 8+450 RT</b> <b>8+490 TO 8+530 LT</b> <b>8+930 to 9+090</b>	<b>9+950 to 9+810</b> <b>10+615 TO 10+800 RT</b> <b>11+160 TO 11+250 LT</b>	
<b>PLATFORM</b>			
LANE WIDTH (m)	3.2	3.35	
SHOULDER WIDTH (m)	1.05	1.5	
TOTAL PLATFORM WIDTH (AVG)	8.5	9.7	
<b>RIGHT OF WAY (m)</b>	26.5	(Varies)	
<b>DRAINAGE</b>	<ul style="list-style-type: none"> <li>Good to Poor</li> </ul>		
<b>TOPOGRAPHY</b>	<ul style="list-style-type: none"> <li>Dunes</li> </ul>		
<b>VEGETATION</b>	<ul style="list-style-type: none"> <li>Mixed Deciduous/Coniferous</li> </ul>		
<b>Geotechnical</b>	<ul style="list-style-type: none"> <li>BH 38-57</li> </ul>		
<b>Utilities</b>	<ul style="list-style-type: none"> <li>Hydro/Telephone/CATV</li> </ul>		
<b>Comments</b>	<ul style="list-style-type: none"> <li></li> </ul>		

<b>WEST ROAD PRELIMINARY ASSESSMENT</b>		
SECT	SURFACE: GRAVEL	STATION RANGE
4A		11+350 12+840
FROM HURON ROAD		TO 620 HOWDENVALE ROAD
COUNTY OP DESIGNATION		COLLECTOR RURAL
CONSTRUCTION HISTORY		Approx.
POSTED SPEED (km/h)		60
DESIGN SPEED (km/h)		70
JULY 2015 DAILY TRAFFIC VOLUME		190 WRC

<b>GEOMETRIC DESIGN ELEMENTS</b>	<b>EXISTING</b>	<b>DESIGN</b>	
<b>ALIGNMENT</b>			
VERTICAL CURVES			
CREST (K)	<b>3 deficient</b>	25	
SAG (K)		25	
HORIZONTAL CURVE RADII (m)		190	
LOCATION ON ROW	<b>MEANDERS</b>	CENTRED	
10m Encroachments	<b>11+700 TO 12+480 LT 11+370 TO 11+700 RT 12+480 TO 13+210 LT 13+200 TO 13+260</b>		
<b>PLATFORM</b>			
LANE WIDTH (m)	3	3.35	
SHOULDER WIDTH (m)	0	1.5	
TOTAL PLATFORM WIDTH (AVG)	6	9.7	
<b>RIGHT OF WAY (m)</b>	<b>12.2 TO 20.1</b>	(Varies)	
<b>DRAINAGE</b>			
• POOR			
<b>TOPOGRAPHY</b>			
• WETLAND			
<b>VEGETATION</b>			
• Mixed Deciduous/Coniferous			
<b>Geotechnical</b>			
• BH 58-65			
<b>Utilities</b>			
• Hydro/Telephone/CATV			
<b>Comments</b>			
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<b>WEST ROAD PRELIMINARY ASSESSMENT</b>		
SECT	SURFACE: GRAVEL	STATION RANGE
4B		12+840 13+980
FROM 620 HOWDENVALE ROAD	TO	536 HOWDENVALE ROAD
COUNTY OP DESIGNATION	COLLECTOR RURAL	
CONSTRUCTION HISTORY	Approx.	
POSTED SPEED (km/h)	60	
DESIGN SPEED (km/h)	70	
JULY 2015 DAILY TRAFFIC VOLUME	190	WRC

<b>GEOMETRIC DESIGN ELEMENTS</b>	<b>EXISTING</b>	<b>DESIGN</b>	
<b>ALIGNMENT</b>			
VERTICAL CURVES			
CREST (K)	<b>4 deficient</b>	25	
SAG (K)	<b>3 deficient</b>	25	
HORIZONTAL CURVE RADII (m)		190	
LOCATION ON ROW	<b>MEANDERS</b>	CENTRED	
10m Encroachments	13+260 TO 13+440 RT 13+440 TO 13+550 LT		
<b>PLATFORM</b>			
LANE WIDTH (m)	3	3.35	
SHOULDER WIDTH (m)		1.5	
TOTAL PLATFORM WIDTH (AVG)	6	9.7	
<b>RIGHT OF WAY (m)</b>	<b>20.1</b>	(Varies)	
<b>DRAINAGE</b>			
• FAIR			
<b>TOPOGRAPHY</b>			
• DUNES			
<b>VEGETATION</b>			
• Mixed Deciduous/Coniferous			
<b>Geotechnical</b>			
• BH 66-71			
<b>Utilities</b>			
• Hydro/Telephone/CATV			
<b>Comments</b>			
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<b>WEST ROAD PRELIMINARY ASSESSMENT</b>		
SECT	SURFACE: GRAVEL	STATION RANGE
4C		13+980 17+940
FROM 536 HOWDENVALE ROAD	TO	LOT 4/5 CON 3 WBR
COUNTY OP DESIGNATION	COLLECTOR RURAL	
CONSTRUCTION HISTORY	Approx.	
POSTED SPEED (km/h)	60	
DESIGN SPEED (km/h)	70	
JULY 2015 DAILY TRAFFIC VOLUME	190	WRC

<b>GEOMETRIC DESIGN ELEMENTS</b>	<b>EXISTING</b>	<b>DESIGN</b>	
<b>ALIGNMENT</b>			
VERTICAL CURVES			
CREST (K)	<b>20 deficient</b>	25	
SAG (K)	<b>14 deficient</b>	25	
HORIZONTAL CURVE RADII (m)		190	
LOCATION ON ROW	<b>MEANDERS</b>	CENTRED	
10m Encroachments	14+310 TO 14+400 LT 14+580 TO 14+820 LT 14+580 TO 14+820 LT 15+480 TO 15+520 RT		
<b>PLATFORM</b>			
LANE WIDTH (m)	3	3.35	
SHOULDER WIDTH (m)		1.5	
TOTAL PLATFORM WIDTH (AVG)	6	9.7	
<b>RIGHT OF WAY (m)</b>	<b>20.1</b>		
<b>DRAINAGE</b>			
• FAIR			
<b>TOPOGRAPHY</b>			
• SAND/SHALLOW BEDROCK			
<b>VEGETATION</b>			
• Mixed Deciduous/Coniferous			
<b>Geotechnical</b>			
• BH 72-90			
<b>Utilities</b>			
• CLEAR			
<b>Comments</b>			
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<b>WEST ROAD PRELIMINARY ASSESSMENT</b>			
SECT	SURFACE:	GRAVEL	STATION RANGE
4D			17+940 19+530
FROM LOT 4/5 CON 3 WBR		TO	SHANTY LANE
COUNTY OP DESIGNATION		COLLECTOR RURAL	
CONSTRUCTION HISTORY		Approx.	
POSTED SPEED (km/h)		60	
DESIGN SPEED (km/h)		70	
JULY 2015 DAILY TRAFFIC VOLUME		190	WRC

<b>GEOMETRIC DESIGN ELEMENTS</b>	<b>EXISTING</b>	<b>DESIGN</b>	
<b>ALIGNMENT</b>			
VERTICAL CURVES			
CREST (K)	<b>3 DEFFICIENT</b>	25	
SAG (K)	<b>1 DEFFICIENT</b>	25	
HORIZONTAL CURVE RADII (m)		190	
LOCATION ON ROW	<b>MEANDERS</b>	CENTRED	
10m Encroachments			
<b>PLATFORM</b>			
LANE WIDTH (m)	3	3.35	
SHOULDER WIDTH (m)		1.5	
TOTAL PLATFORM WIDTH (AVG)	6	9.7	
<b>RIGHT OF WAY (m)</b>	<b>20.1</b>		
<b>DRAINAGE</b>			
• POOR			
<b>TOPOGRAPHY</b>			
• WETLAND			
<b>VEGETATION</b>			
• Mixed Deciduous/Coniferous			
<b>Geotechnical</b>			
• BH 72-100			
<b>Utilities</b>			
• CLEAR			
<b>Comments</b>			
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<b>WEST ROAD PRELIMINARY ASSESSMENT</b>		
SECT	SURFACE:	STATION RANGE
4E	GRAVEL	19+530 21+585
FROM SHANTY LANE		TO PIKE BAY ROAD
COUNTY OP DESIGNATION		COLLECTOR RURAL
CONSTRUCTION HISTORY		Approx.
POSTED SPEED (km/h)		60
DESIGN SPEED (km/h)		70
JULY 2015 DAILY TRAFFIC VOLUME		190 WRC

<b>GEOMETRIC DESIGN ELEMENTS</b>	<b>EXISTING</b>	<b>DESIGN</b>	
<b>ALIGNMENT</b>			
VERTICAL CURVES			
CREST (K)	<b>7 DEFFICIENT</b>	25	
SAG (K)	<b>5 DEFFICIENT</b>	25	
HORIZONTAL CURVE RADII (m)		190	
LOCATION ON ROW	<b>MEANDERS</b>	CENTRED	
10m Encroachments			
<b>PLATFORM</b>			
LANE WIDTH (m)	3	3.35	
SHOULDER WIDTH (m)		1.5	
TOTAL PLATFORM WIDTH (AVG)	6	9.7	
<b>RIGHT OF WAY (m)</b>	<b>20.1</b>		
<b>DRAINAGE</b>			
• FAIR			
<b>TOPOGRAPHY</b>			
• SAND/SHALLOW BEDROCK ROLLING			
<b>VEGETATION</b>			
• Mixed Deciduous/Coniferous			
<b>Geotechnical</b>			
• BH 101-110			
<b>Utilities</b>			
• CLEAR			
<b>Comments</b>			
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<b>WEST ROAD PRELIMINARY ASSESSMENT</b>		
SECT	SURFACE: GRAVEL	STATION RANGE
4F		0+000 4+060
FROM PIKE BAY ROAD		TO LITTLE PIKE BAY ROAD
COUNTY OP DESIGNATION		COLLECTOR RURAL
CONSTRUCTION HISTORY		Approx.
POSTED SPEED (km/h)		60
DESIGN SPEED (km/h)		70
JULY 2015 DAILY TRAFFIC VOLUME		190 WRC

<b>GEOMETRIC DESIGN ELEMENTS</b>	<b>EXISTING</b>	<b>DESIGN</b>	
<b>ALIGNMENT</b>			
VERTICAL CURVES			
CREST (K)	<b>14 DEFFICIENT</b>	25	
SAG (K)	<b>14 DEFFICIENT</b>	25	
HORIZONTAL CURVE RADII (m)		190	
LOCATION ON ROW	<b>Meanders</b>	CENTRED	
Deviation Road Section	<b>1+620 to 2+520</b>		
<b>PLATFORM</b>			
LANE WIDTH (m)	3.5	3.35	
SHOULDER WIDTH (m)		1.5	
TOTAL PLATFORM WIDTH (AVG)	7	9.7	
<b>RIGHT OF WAY (m)</b>	<b>20.1</b>		
<b>DRAINAGE</b>			
• FAIR			
<b>TOPOGRAPHY</b>			
• SAND/SHALLOW BEDROCK/ROLLING			
<b>VEGETATION</b>			
• Mixed Deciduous/Coniferous			
<b>Geotechnical</b>			
• BH 1-22			
<b>Utilities</b>			
• Hydro/Telephone			
<b>Comments</b>			
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<b>WEST ROAD PRELIMINARY ASSESSMENT</b>		
SECT	SURFACE: ASPHALT	STATION RANGE
5		4+060 8+130
FROM LITTLE PIKE BAY ROAD		TO FERNDALE ROAD
COUNTY OP DESIGNATION		COLLECTOR RURAL
CONSTRUCTION HISTORY		Approx.
POSTED SPEED (km/h)		80
DESIGN SPEED (km/h)		90
JULY 2015 DAILY TRAFFIC VOLUME		190 WRC

<b>GEOMETRIC DESIGN ELEMENTS</b>	<b>EXISTING</b>	<b>DESIGN</b>	
<b>ALIGNMENT</b>			
VERTICAL CURVES			
CREST (K)	<b>1 DEFFICIENT</b>	50	
SAG (K)		40	
HORIZONTAL CURVE RADII (m)		340	
LOCATION ON ROW	<b>CENTRED</b>	CENTRED	
<b>PLATFORM</b>			
LANE WIDTH (m)	3.45	3.35	
SHOULDER WIDTH (m)	1.65	1.5	
TOTAL PLATFORM WIDTH (AVG)	10.2	9.7	
<b>RIGHT OF WAY (m)</b>	<b>20.1</b>		
<b>DRAINAGE</b>			
• FAIR			
<b>TOPOGRAPHY</b>			
• AGRICULTURAL EXTENSIVELY DRAINED - FERNDALE FLATS			
<b>VEGETATION</b>			
• Mixed Deciduous/Coniferous			
<b>Geotechnical</b>			
• BH 23-41			
<b>Utilities</b>			
• Hydro/Telephone			
<b>Comments</b>			
•			