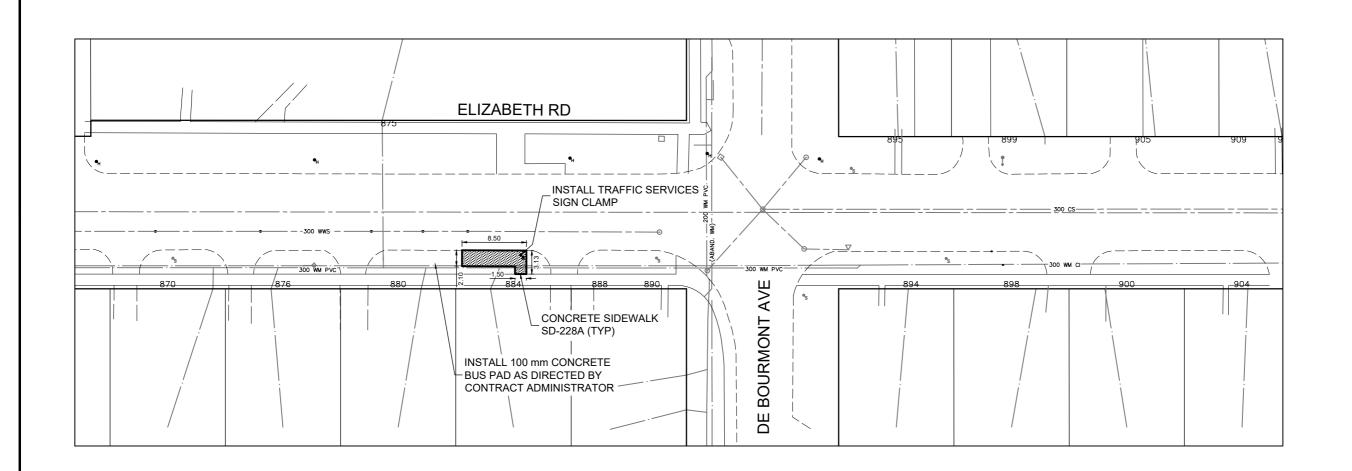
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APPENDIX 'C' TRANSIT STOP IMPROVEMENTS



NOTES:

- ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH LATEST REVISION OF THE CITY OF WINNIPEG STANDARD
- CONSTRUCTION SPECIFICATIONS.

 2. LEGAL PLAN AND UNDERGROUND INFORMATION FROM CITY OF WINNIPEG LBIS. ALL UNDERGROUNDS TO BE VERIFIED BY THE
- WINNIFE BIS. ALL ONDERGROUDES TO BE VENIFIED BY THE CONTRACTOR IN THE FIELD.

 3. CONTRACTOR TO TAKE PRECAUTIONARY STEPS TO AVOID DAMAGE FROM CONSTRUCTION ACTIVITIES TO TREES WITHIN THE LIMITS OF CONSTRUCTION. 4. LOCATION OF EXISTING SERVICES TO BE CONFIRMED IN THE
- FIELD BY THE CONTRACTOR.

 5. LIMITS OF BOULEVARD GRADING TO BE FINALIZED IN THE FIELD
- BY THE CONTRACT ADMINISTRATOR.
- ADJUST ALL WATER VALVES, MANHOLES, CATCH BASINS AND CATCH PITS TO GRADE. PAVEMENT REPAIRS SHOWN ARE ONLY REPRESENTATIVE OF APPROXIMATION OF CONSTRUCTION.
- CONTRACTOR TO INSTALL CONCRETE RISERS BY REMOVING
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- DIRECTED BY THE CONTRACT ADMINISTRATOR AND THEN
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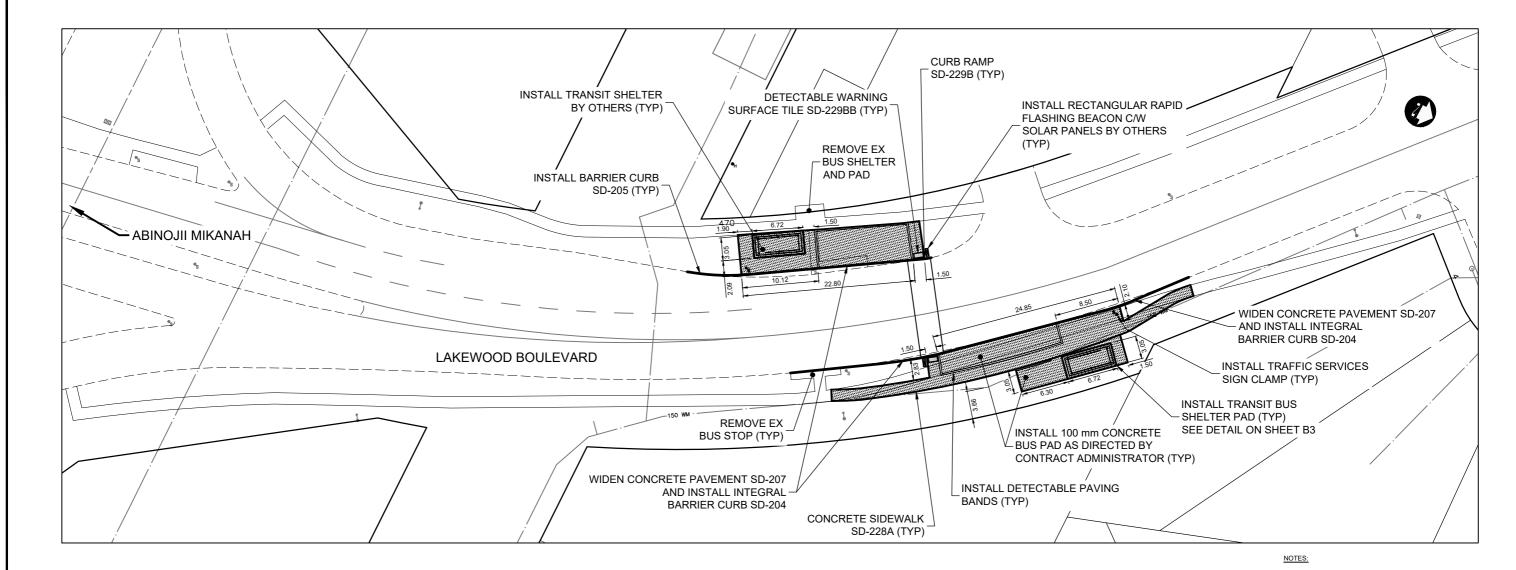
φ.	HYDRANT	ø	150 WM	WATERMAIN	150 WM		CONCRETE ROAD		Г
8	VALVE	8	300 LDS	LAND DRAINAGE SEWER	300 LDS		ASPHALT ROAD		ı
7	CURB STOP	<i>></i>	250 WWS	WASTE WATER SEWER	250 WWS		CONC ROAD W/ASP OVERLAY		i
0	LIGHT STANDARD	.	HYDRO	HYDRO	HYDRO		CONCRETE SIDEWALK	200000000000000000000000000000000000000	WH
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	CATCH BASIN		****	PAVING STONE	XXXXXXXX		CURB RAMP		11
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THE CITY OF WINNIPEG

2025 RESIDENTIAL STREETS RENEWAL PROGRAM	CITY DRAWING	NUMBER
CROMWELL STREET AND VARIOUS OTHER LOCATIONS	SHEET B1	of B5
ELIZABETH ROAD TRANSIT STOP IMPROVEMENT	TENDER NO.	



- ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH LATEST REVISION OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
- LEGAL PLAN AND UNDERGROUND INFORMATION FROM CITY OF WINNIPEG LBIS. ALL UNDERGROUNDS TO BE VERIFIED BY THE CONTRACTOR IN THE FIELD.
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•	HYDRANT	ø	150 WM	WATERMAIN	150 WM	====	CONCRETE ROAD		Г
8	VALVE	8	300 LDS	LAND DRAINAGE SEWER	300 LDS		ASPHALT ROAD		ı
7	CURB STOP	<i>\rightarrow</i>	250 WWS	WASTE WATER SEWER	250 WWS		CONC ROAD W/ASP OVERLAY	*****	ı
0	LIGHT STANDARD	.	HYDRO	HYDRO	HYDRO		CONCRETE SIDEWALK	200000000000000000000000000000000000000	w
91	HYDRO POLE	₽	BELLMTS	BELLMTS	BELLMTS		ASPHALT PATH		DE
\odot	TREE		100 GAS	GAS	100 GAS		LANDSCAPING FEATURE		١.
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#	SURVEY BAR		S.L.	STREET LIGHTS	S.L.	232.000	ELEVATION	232.000	П
0	MANHOLE	•	•	TRAFFIC SIGNAL POLE	•		PROPERTY LINE		П
	CATCH BASIN		****	PAVING STONE	PAVING STONE CURB RAMP		CURB RAMP		П
∇	CATCH PIT	▼		CURB RENEWAL		<u> </u>	DETECTABLE TILE	<u> </u>	П
EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	П

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THE CITY OF WINNIPEG

2025 RESIDENTIAL STREETS RENEWAL PROGRAM	CITY DRAWING	NUMBER
CROMWELL STREET AND VARIOUS OTHER LOCATIONS	SHEET B2	of B5
LAKEWOOD BOULEVARD TRANSIT STOP IMPROVEMENT	TENDER NO.	

- CITY OF WINNIPEG TRANSIT DEPARTMENT WILL BE RESPONSIBLE TO INSTALL TRANSIT SHELTERS.
- CONTRACTOR RESPONSIBLE TO "MAKE GOOD" AND CLEAN SITE, REPAIR DAMAGED SOD, ETC. AT COMPLETION OF CONSTRUCTION.

GENERAL CONCRETE NOTES:

- ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED PRIOR TO COMMENCING CONSTRUCTION.
- CONFIRM THE LOCATION OF ALL SUBGRADE SERVICES PRIOR TO COMMENCING SITE WORK.
- EXCAVATE ALL TOPSOIL, ORGANIC MATERIAL AND LOOSE OR UNSUITABLE FILL TO THE APPROVAL OF THE CONTRACT ADMINISTRATOR.
- EXCAVATE BELOW SLABS ON FILL TO PROVIDE A MINIMUM OF 150 mm OF GRANULAR. FILL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
- CONSTRUCTION JOINT LOCATIONS ARE TO BE APPROVED BY THE CONTRACT ADMINISTRATOR.
- ALL CONCRETE PILES AND BASES TO BE REVIEWED AND APPROVED BY SIGNAGE & SHELTER MANUFACTURERS' STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION. CONTRACTOR TO MAKE ANY CHANGES REQUIRED AT NO EXTRA COST.

REINFORCING NOTES:

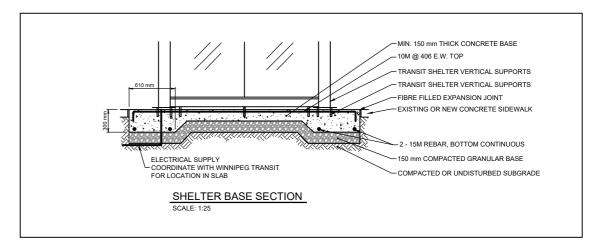
- PERFORM CONCRETE WORK IN ACCORDANCE WITH CAN3-A23.3-M84 UNLESS INDICATED OTHERWISE.
- 10. ALL REINFORCING BARS SHALL BE DEFORMED BARS WITH A MINIMUM SPECIFIED YIELD STRENGTH 400MPa FOR 20M BARS AND 300MPa FOR 15M AND 10M BARS IN ACCORDANCE WITH CAN-630.18-M92.
- COVER TO REINFORCING: SLABS 50 mm CLEAR TOP AND BOTTOM.
- 12. BEFORE PLACING ENSURE REINFORCING IS CLEAN, FREE OF LOOSE SCALE, DIRT, OR OTHER FOREIGN COATING WHICH WOULD REDUCE THE BOND TO CONCRETE.
- 13. SHOP DRAWINGS SHALL BE SUBMITTED WHICH CLEARLY INDICATE BAR SIZES, SPACINGS, LOCATIONS AND QUANTITIES OF REINFORCING STEEL AND WIRE FABRIC, BENDING AND CUTTING SCHEDULES, AND SUPPORTING AND SPACING DEVICES FOR REVIEW PRIOR TO FABRICATION OF THE REINFORCING STEEL. DETAIL IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL.

- 14. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH CAN3-A23.1-M90 CONCRETE CONSTRUCTION.
- 15. PROPORTION NORMAL DENSITY CONCRETE IN ACCORDANCE WITH CAN-A23.1-M90. REFER TO SPECIFICATION FOR DESIGN MIXES.
- 6720 mm EDGE OF BASE (8' X 20' SHELTER) 6100 mm ± (8' X 20' SHELTER) INCOMING POWER FOR LIGHTS TO BE CONFIRMED WITH SHELTER MANUFACTURER LOCATIONS FOR CONDUITS FOR POWER CONNECTION
 TO HEATERS TO BE CONFIRMED WITH SHELTER MANUFACTURER CHANGE IN SLAB THICKNESS SEE SECTION -2 - 15M BOT -10M @ 406 E.W. TOP THICKENED EDGE (TYP) 150 mm THICK CONCRETE SLAB TRANSIT SHELTER VERTICAL SUPPORT (NIC) TRANSIT SHELTER OVERHANG CONFIRM FINAL CROSS SLOPE WITH CONTRACT ADMINISTRATOR PRIOR TO LAYOUT. CONTRACTOR TO REPORT ANY DISCREPANCIES TO CONTRACT ADMINISTRATOR PRIOR TO CONSTRUCTION.

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- 16. CONSTRUCT FORMWORK, SHORING AND BRACING TO MEET DESIGN, CODE AND CAN3-A23.1-M90 REQUIREMENTS, ACCURATELY, SO THAT RESULTANT FINISHED CONCRETE CONFORMS TO SHAPES, LINES AND DIMENSIONS INDICATED ON THE DRAWINGS.
- 17. CONSTRUCTION JOINTS, OUR SCHEDULING AND WORK PROCEDURES SHALL BE DISCUSSED WITH THE CONTRACT ADMINISTRATOR PRIOR TO COMMENCING CONSTRUCTION.
- 18. FOR COLD WEATHER CONCRETING, ALL ICE, SNOW AND FROST SHALL BE REMOVED FROM FORMWORK AND THE TEMPERATURES OF ALL CONTRACT SURFACES SHALL BE RAISED ABOVE 10°C FOR 24 HOURS PRIOR TO CASTING CONCRETE SHALL BE NOT LESS THAN 20C NOR MORE THAN 5C FOR AN ADDITIONAL 4 DAYS.

 19. NOTIFY THE CONTRACT ADMINISTRATOR 48 HOURS PRIOR TO POURING CONCRETE.
- THREE CONCRETE TEST CYLINDERS AND ONE SLUMP TEST SHALL BE TAKEN FOR EVERY 75 CUBIC METERS OF EACH CLASS OF CONCRETE PLACED OR FOR EACH DAY OF CONCRETE PLACEMENT IF THE LATTER IS LESS THAN 75 CUBIC METERS. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH CAN3-A23.1-M90.



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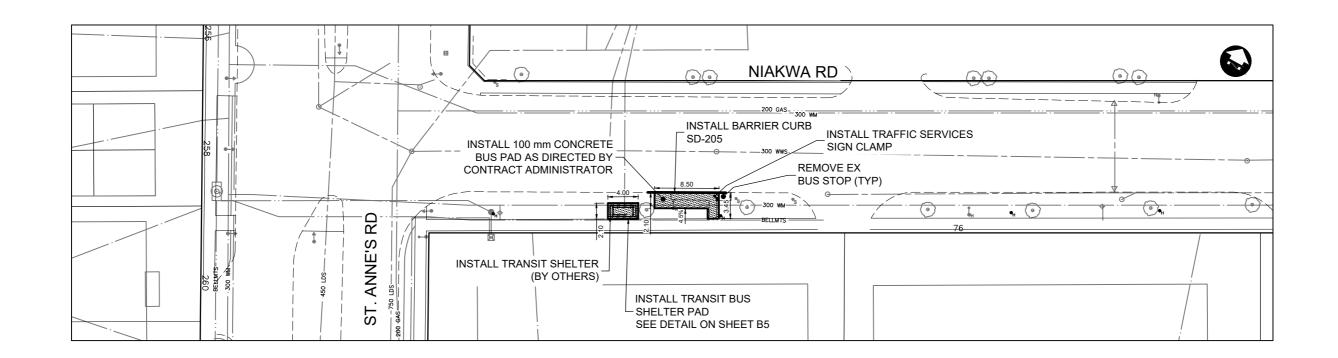
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#	SURVEY BAR		S.L.	STREET LIGHTS	S.L.	232.000	ELEVATION	232.000	GEOSCIENTISTS MANITOBA
0	MANHOLE	•	•	TRAFFIC SIGNAL POLE	+		PROPERTY LINE	 	Certificate of Authorization
	CATCH BASIN		****	PAVING STONE	***************************************		CURB RAMP	_	Dillon Consulting Limited (ME
∇	CATCH PIT	▼		CURB RENEWAL		<u> </u>	DETECTABLE TILE	0	No. 1789 Date: 2025/03/25
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		REVISIONS	DATE	BY	DATE		DATE	24-9227



THE CITY OF WINNIPEG

2025 RESIDENTIAL STREETS RENEWAL PROGRAM	CITY DRAWING NUMBER			
CROMWELL STREET AND VARIOUS OTHER LOCATIONS	SHEET B3	of B5		
LAKEWOOD BOULEVARD - DETAIL TRANSIT STOP IMPROVEMENT	TENDER NO.			



NOTES:

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•	HYDRANT	ø	150 WM	WATERMAIN	150 WM		CONCRETE ROAD	200000000	
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MANITOBA					BY	TJP		1 1
Certificate of Authorization					HOR, SCALE	1:500	RELEASED FOR CONSTRUCTION	1 -
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THE CITY OF WINNIPEG

2025 RESIDENTIAL STREETS RENEWAL PROGRAM	CITY DRAWING I	NUMBER
CROMWELL STREET AND VARIOUS OTHER LOCATIONS	SHEET B4	of B5
NIAKWA ROAD TRANSIT STOP IMPROVEMENT	TENDER NO.	

- CITY OF WINNIPEG TRANSIT DEPARTMENT WILL BE RESPONSIBLE TO INSTALL TRANSIT SHELTERS.
- CONTRACTOR RESPONSIBLE TO "MAKE GOOD" AND CLEAN SITE, REPAIR DAMAGED SOD, ETC. AT COMPLETION OF CONSTRUCTION.

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- 10. ALL REINFORCING BARS SHALL BE DEFORMED BARS WITH A MINIMUM SPECIFIED YIELD STRENGTH 400MPa FOR 20M BARS AND 300MPa FOR 15M AND 10M BARS IN ACCORDANCE WITH CAN-630.18-M92.
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- 12. BEFORE PLACING ENSURE REINFORCING IS CLEAN, FREE OF LOOSE SCALE, DIRT, OR OTHER FOREIGN COATING WHICH WOULD REDUCE THE BOND TO CONCRETE.
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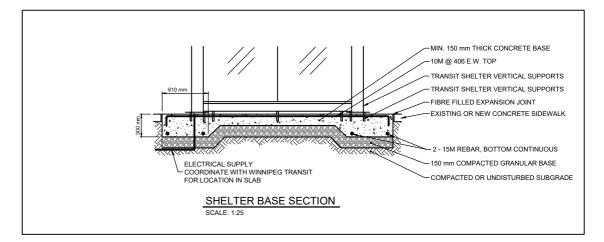
- 14. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH CAN3-A23.1-M90 CONCRETE CONSTRUCTION.
- 15. PROPORTION NORMAL DENSITY CONCRETE IN ACCORDANCE WITH CAN-A23.1-M90. REFER TO SPECIFICATION FOR DESIGN MIXES
- 4000 mm EDGE OF BASE (5' X 11' SHELTER) 3270 mm ± (5' X 11' SHELTER) HANGE IN SLAB THICKNESS -2 - 15M BOT -10M @ 406 E.W. TOP 610 mm x 400 mm THICKENED EDGE (TYP) 50 mm THICK CONCRETE SLAB TRANSIT SHELTER VERTICAL SUPPORT (NIC) TRANSIT SHELTER OVERHANG 1. CONFIRM FINAL CROSS SLOPE WITH CONTRACT ADMINISTRATOR PRIOR TO LAYOUT, CONTRACTOR TO REPORT ANY DISCREPANCIES TO CONTRACT ADMINISTRATOR PRIOR TO CONSTRUCTION.

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- 16. CONSTRUCT FORMWORK, SHORING AND BRACING TO MEET DESIGN, CODE AND CAN3-A23.1-M90 REQUIREMENTS, ACCURATELY, SO THAT RESULTANT FINISHED CONCRETE CONFORMS TO SHAPES, LINES AND DIMENSIONS INDICATED ON THE DRAWINGS.
- 17. CONSTRUCTION JOINTS, OUR SCHEDULING AND WORK PROCEDURES SHALL BE DISCUSSED WITH THE CONTRACT ADMINISTRATOR PRIOR TO COMMENCING CONSTRUCTION.
- 18. FOR COLD WEATHER CONCRETING, ALL ICE, SNOW AND FROST SHALL BE REMOVED FROM FORMWORK AND THE TEMPERATURES OF ALL CONTRACT SURFACES SHALL BE RAISED ABOVE 10°C FOR 24 HOURS PRIOR TO CASTING CONCRETE SHALL BE NOT LESS THAN 20C NOR MORE THAN 5C FOR AN ADDITIONAL 4 DAYS.

 19. NOTIFY THE CONTRACT ADMINISTRATOR 48 HOURS PRIOR TO POURING CONCRETE.
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- ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH LATEST REVISION OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
- 2. LEGAL PLAN AND UNDERGROUND INFORMATION FROM CITY OF WINNIPEG LBIS. ALL UNDERGROUNDS TO BE VERIFIED BY THE CONTRACTOR IN THE FIELD.
- 3. CONTRACTOR TO TAKE PRECAUTIONARY STEPS TO AVOID DAMAGE FROM CONSTRUCTION ACTIVITIES TO TREES WITHIN THE LIMITS OF CONSTRUCTION.
- 4. LOCATION OF EXISTING SERVICES TO BE CONFIRMED IN THE FIELD BY THE CONTRACTOR.

 5. LIMITS OF BOULEVARD GRADING TO BE FINALIZED IN THE FIELD
- BY THE CONTRACT ADMINISTRATOR.
- ADJUST ALL WATER VALVES, MANHOLES, CATCH BASINS AND CATCH PITS TO GRADE.
- PAVEMENT REPAIRS SHOWN ARE ONLY REPRESENTATIVE OF APPROXIMATION OF CONSTRUCTION.
- 8. CONTRACTOR TO INSTALL CONCRETE RISERS BY REMOVING THE EXISTING FLAT TOP REDUCER, PLACING RISERS AS DIRECTED BY THE CONTRACT ADMINISTRATOR AND THEN REINSTALLING THE EXISTING FLAT TOP REDUCER.
- EXCAVATIONS WITHIN 1.0m FROM THE OUTER EDGE OF WM TO THE NEAREST EDGE OF EXCAVATION ARE TO BE CONDUCTED WITHOUT HEAVY VIBRATORY EQUIPMENT. BOTH SAW CUTTING AND REMOVAL OR SOFT DIGGING ARE ACCEPTABLE MEANS OF EXCAVATION AT THESE LOCATIONS.

-φ-	HYDKANI	♥	130 MM	WAIERMAIN	130 HM		CONCRETE ROAD	<u> </u>	
8	VALVE	8	300 LDS	LAND DRAINAGE SEWER	300 LDS		ASPHALT ROAD		
<i>></i>	CURB STOP	₽	250 WWS	WASTE WATER SEWER	250 WWS		CONC ROAD W/ASP OVERLAY		
00	LIGHT STANDARD	••	HYDRO	HYDRO	HYDRO		CONCRETE SIDEWALK	200000000000000000000000000000000000000	WH
94	HYDRO POLE	94	BELLMTS	BELLMTS	BELLMTS		ASPHALT PATH		DEC
0	TREE		100 GAS	GAS	100 GAS		LANDSCAPING FEATURE		
0	GEODETIC BENCH MARK		T.S	TRAFFIC SIGNALS	<u>T.S.</u>		GRASS/SOD	* * *	ıΓ
+	SURVEY BAR		S.L.	STREET LIGHTS	S.L.	232.000	ELEVATION	232.000	П
0	MANHOLE	•	•	TRAFFIC SIGNAL POLE	•		PROPERTY LINE		П
	CATCH BASIN		****	PAVING STONE	**********	1	CURB RAMP		П
∇	CATCH PIT	▼		CURB RENEWAL		0	DETECTABLE TILE	<u> </u>	Ш
EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	Ľ

	B.M. ELEV.				DESIGNED BY	DRC		ENGINEER'S SEAL
METRIC OLE NUMBERS INDICATE MILLIMETRES					DRAWN BY	DRC	1	
IMALIZED NUMBERS INDICATE METRES					CHECKED BY	LAS	DILLON	
ENGINEERS GEOSCIENTISTS MANITOBA					APPROVED BY	TJP	CONSULTING	
Certificate of Authorization			\vdash		HOR. SCALE	AS NOTED	RELEASED FOR CONSTRUCTION	
Dillon Consulting Limited (MB) lo. 1789 Date: 2025/03/25	0	ISSUED FOR TENDER	25/03/25	LAS	VERTICAL	-		CONSULTANT PROJECT NUMBER
	NO.	REVISIONS	DATE	BY	DATE		DATE	24-9227



THE CITY OF WINNIPEG

2025 RESIDENTIAL STREETS RENEWAL PROGRAM	CITY DRAWING NUMBER			
CROMWELL STREET AND VARIOUS OTHER LOCATIONS	SHEET B5	of B5		
NIAKWA ROAD - DETAIL TRANSIT STOP IMPROVEMENT	TENDER NO.			