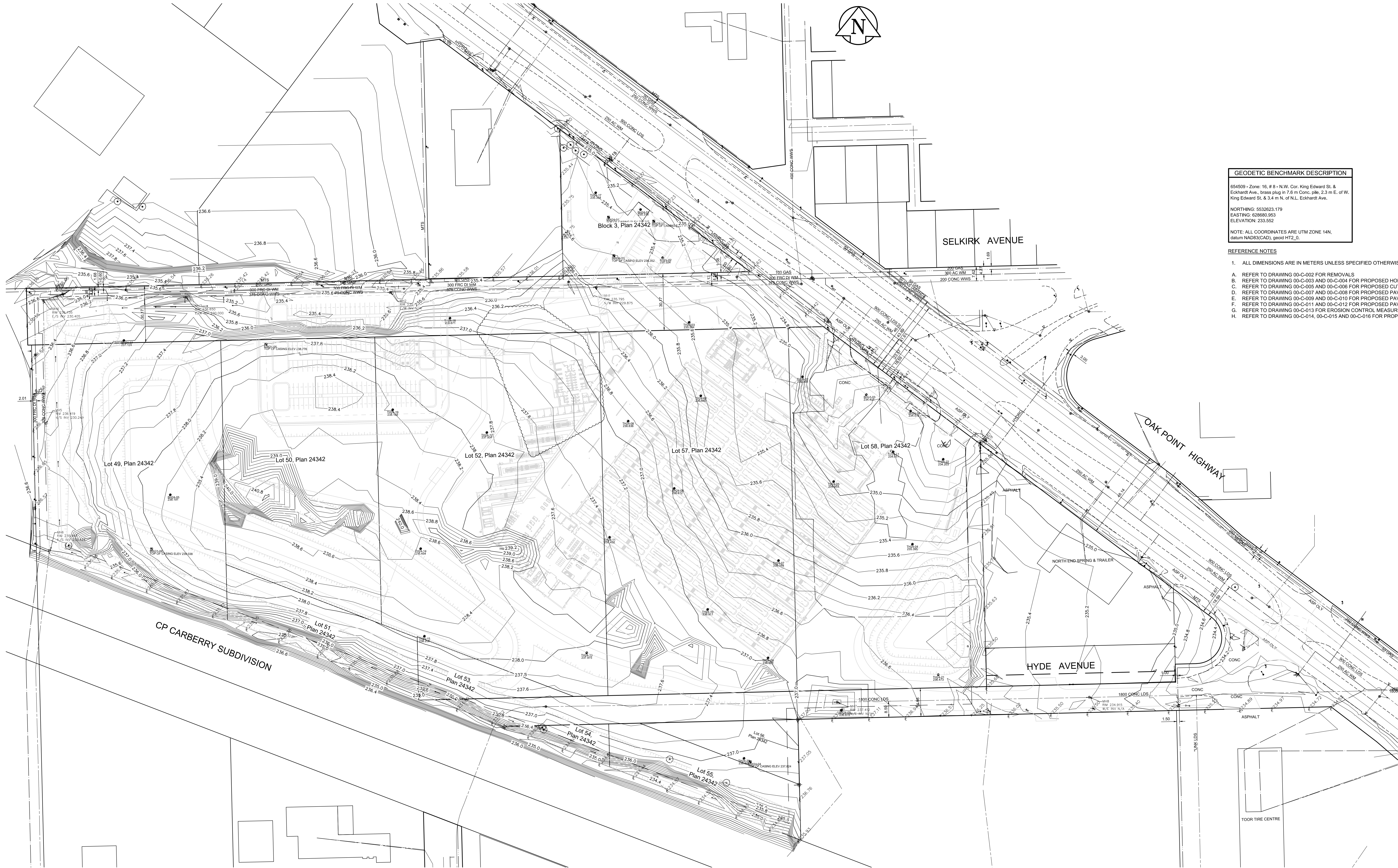




GEODEIC BENCHMARK DESCRIPTION

654509 - Zone: 16, # 8 - N.W. Cor. King Edward St. & Eckhardt Ave., brass plug in 7.6 m Conc. pile, 2.3 m E. of W. King Edward St. & 3.4 m N. of N.L. Eckhardt Ave.

NORTHING: 5532623.179
EASTING: 626860.353
ELEVATION: 235.352

NOTE: ALL COORDINATES ARE UTM ZONE 14N, datum NAD83(CAD), geoid HT2_0.

- REFERENCE NOTES**
1. ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED OTHERWISE
 - A. REFER TO DRAWING 00-C-002 FOR REMOVALS
 - B. REFER TO DRAWING 00-C-003 AND 00-C-004 FOR PROPOSED HORIZONTAL GEOMETRY
 - C. REFER TO DRAWING 00-C-005 AND 00-C-006 FOR PROPOSED CUT/FILL CONTOURS
 - D. REFER TO DRAWING 00-C-007 AND 00-C-008 FOR PROPOSED PAVEMENT ELEVATIONS
 - E. REFER TO DRAWING 00-C-009 AND 00-C-010 FOR PROPOSED PAVING AND GRADING
 - F. REFER TO DRAWING 00-C-011 AND 00-C-012 FOR PROPOSED PAVEMENT JOINTS
 - G. REFER TO DRAWING 00-C-013 FOR EROSION CONTROL MEASURES
 - H. REFER TO DRAWING 00-C-014, 00-C-015 AND 00-C-016 FOR PROPOSED SECTIONS

REGISTRATION

- LEGEND:**
- EXISTING PROPERTY LINE
 - - - EXISTING CURB
 - - - EXISTING CONCRETE WALK
 - EXISTING LANE LINE
 - EXISTING ROAD EDGE
 - ⊙ EXISTING MANHOLE
 - ⊙ EXISTING CATCHBASIN MANHOLE
 - ⊙ EXISTING WATER VALVE
 - ⊙ EXISTING FIRE HYDRANT
 - ⊙ EXISTING SIGN
 - ⊙ EXISTING SIGNALIZED TRAFFIC POST
 - ⊙ EXISTING TRAFFIC SIGNAL PIT
 - ∇ EXISTING CATCH PIT
 - ⊙ LIGHT STANDARD
 - ⊙ HYDRO POLE
 - ⊙ MTS PEDESTAL
 - ⊙ HYDRO POLE ANCHOR
 - ⊙ IRON BAR
 - ⊙ MTS MANHOLE
 - ⊙ HYDRO PEDESTAL
 - EXISTING WATERMAIN
 - - - EXISTING WASTEWATER SEWER
 - - - EXISTING LAND DRAINAGE SEWER
 - EXISTING GAS LINE
 - EXISTING MTS LINE
 - EXISTING HYDRO LINE
 - ⊙ BOREHOLE
 - ⊙ MONITORING WELL
 - ⊙ TREE
 - 235.750 ELEVATION
 - 235.000 MAJOR CONTOUR LINE
 - - - MINOR CONTOUR LINE
 - ROOF DRAIN

ISSUE/REVISION

NO.	DATE	DESCRIPTION
0	2025/02/19	ISSUED FOR TENDER
C	2024/12/06	ISSUED FOR 66% DESIGN RESUBMISSION
B	2024/08/12	ISSUED FOR 66% DESIGN
A	2024/03/29	ISSUED FOR SCHEMATIC DESIGN
1/1R		

PROJECT NUMBER

60721079

SHEET TITLE

TOPOGRAPHIC SURVEY PLAN

SHEET NUMBER

00-C-001

PROJECT

WINNIPEG NORTH GARAGE
REPLACEMENT

100 Oak Point Hwy, Winnipeg, MB R2R 1V1

CLIENT

City of Winnipeg
510 Main St.
Winnipeg, MB R3B 1B9
TEL: 1.877.311.4974 FAX: 1.204.986.1311

CONSULTANT

AECOM CANADA ULC
99 Commerce Dr
Winnipeg, MB R3P 0Y7

REGISTRATION

LEGEND:

- EXISTING PROPERTY LINE
- EXISTING CURB
- EXISTING CONCRETE WALK
- EXISTING LANE LINE
- EXISTING ROAD EDGE
- EXISTING MANHOLE
- EXISTING CATCH BASIN MANHOLE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING SIGN
- EXISTING SIGNALIZED TRAFFIC POST
- EXISTING TRAFFIC SIGNAL PIT
- EXISTING CATCH PIT
- EXISTING LIGHT STANDARD
- HYDRO POLE
- MTS PEDESTAL
- HYDRO POLE ANCHOR
- IRON BAR
- MTS MANHOLE
- HYDRO PEDESTAL
- EXISTING WATERMAIN
- EXISTING WASTEWATER SEWER
- EXISTING LAND DRAINAGE SEWER
- EXISTING GAS LINE
- EXISTING MTS LINE
- EXISTING HYDRO LINE
- BOREHOLE
- MONITORING WELL
- TREE
- ELEVATION
- MAJOR CONTOUR LINE
- MINOR CONTOUR LINE
- ROOF DRAIN

ISSUE/REVISION

NO.	DATE	DESCRIPTION
0	2025/02/19	ISSUED FOR TENDER
C	2024/12/06	ISSUED FOR 66% DESIGN RESUBMISSION
B	2024/08/12	ISSUED FOR 66% DESIGN
A	2024/03/29	ISSUED FOR SCHEMATIC DESIGN

PROJECT NUMBER

60721079

SHEET TITLE

DEMOLITION AND REMOVALS PLAN

SHEET NUMBER

00-C-002



GEODETTIC BENCHMARK DESCRIPTION

654509 - Zone: 16, # 8 - N.W. Cor. King Edward St. & Ekhardt Ave., brass plug in 7.6 m Conc. pile, 2.3 m E. of W. King Edward St. & 3.4 m N. of N.L. Ekhardt Ave.

NORTHING: 5532623.179
EASTING: 628660.953
ELEVATION: 233.552NOTE: ALL COORDINATES ARE UTM ZONE 14N,
datum NA83(CAD), geoid HT2_0.

REFERENCE NOTES

- ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED OTHERWISE
- REFER TO DRAWING 00-C-001 FOR EXISTING TOPOGRAPHIC SURVEY
- REFER TO DRAWING 00-C-003 AND 00-C-004 FOR PROPOSED HORIZONTAL GEOMETRY
- REFER TO DRAWING 00-C-005 AND 00-C-006 FOR PROPOSED CUTFILL CONTOURS
- REFER TO DRAWING 00-C-007 AND 00-C-008 FOR PROPOSED PAVEMENT ELEVATIONS
- REFER TO DRAWING 00-C-009 AND 00-C-010 FOR PROPOSED PAVING AND GRADING
- REFER TO DRAWING 00-C-011 AND 00-C-012 FOR PROPOSED PAVEMENT JOINTS
- REFER TO DRAWING 00-C-013 FOR EROSION CONTROL MEASURES
- REFER TO DRAWING 00-C-014, 00-C-015 AND 00-C-016 FOR PROPOSED SECTIONS

REMOVAL TYPE LEGEND

- CONCRETE
- CONTAMINATED SOIL (EXISTING LANDFILL)
- CONTAMINATED SOIL (HYDRO CARBON)

PLAN

Scale 1:750

ENGINEERS
GEOSCIENTISTS
MANITOBA

Certificate of Authorization

AECOM Canada ULC

No. 4671 Date: 2025/02/19

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

PROJECT

WINNIPEG NORTH GARAGE
REPLACEMENT
100 Oak Point Hwy, Winnipeg, MB R2R 1V1

CLIENT

City of Winnipeg
510 Main St.
Winnipeg, MB R3B 1B9
TEL: 1.877.311.4974 FAX: 1.204.986.1311

CONSULTANT

AECOM CANADA ULC
99 Commerce Dr
Winnipeg, MB R3P 0Y7

REGISTRATION

LEGEND:

- EXISTING PROPERTY LINE
- - - - - EXISTING CURB
— EXISTING CONCRETE WALK
— EXISTING LANE LINE
— EXISTING ROAD EDGE
○ EXISTING MANHOLE
○ EXISTING CATCH BASIN
MANHOLE
⊕ EXISTING WATER VALVE
⊕ EXISTING FIRE HYDRANT
— EXISTING SIGN
➔ EXISTING SIGNALIZED
TRAFFIC POST
○_{PT} EXISTING TRAFFIC SIGNAL
PIT
▽ EXISTING CATCH PIT
• LIGHT STANDARD
• HYDRO POLE
⊞ MTS PEDESTAL
+ HYDRO POLE ANCHOR
⊞ IRON BAR
○₁ MTS MANHOLE
⊞ HYDRO PEDESTAL
— EXISTING WATERMAIN
— EXISTING WASTEWATER
SEWER
— EXISTING LAND DRAINAGE
SEWER
— EXISTING GAS LINE
— EXISTING MTS LINE
— EXISTING HYDRO LINE
• BOREHOLE
• MONITORING WELL
• TREE
ELEVATION
235.000 MAJOR CONTOUR LINE
— MINOR CONTOUR LINE
• ROOF DRAIN

ISSUE/REVISION

NO.	DATE	DESCRIPTION

PROJECT NUMBER

60721079

SHEET TITLE

HORIZONTAL LAYOUT PLAN
2 of 2

SHEET NUMBER

00-C-004

LAYOUT UTM COORDINATES			
POINT I.D.	DESCRIPTION	NORTHING	EASTING
200	BC	5532473.087	628088.033
201	EC	5532385.000	628092.055
202	BC	5532347.155	628141.382
203	EC	5532317.099	628212.896
204	EC	5532313.371	628225.589
205	EC	5532309.643	628238.282
206	BC	5532308.514	628258.571
207	EC	5532306.245	628271.787
208	EC	5532305.076	628285.023
209	BC	5532301.988	628338.358
210	EC	5532295.317	628374.579
211	PT	5532295.562	628384.487
212	PT	5532305.549	628384.214
213	BC	5532305.315	628374.342
214	EC	5532307.451	628340.879
215	BC	5532308.085	628330.476
216	EC	5532340.899	628317.515
217	PT	5532320.700	628269.642
218	BC	5532316.412	628272.698
219	CTR	5532317.811	628272.248
220	EC	5532317.070	628272.134
221	BC	5532324.054	628226.845
222	EC	5532342.839	628182.148
223	PT	5532358.622	628163.742
224	BC	5532318.933	628094.870
225	EC	5532309.725	627996.083
226	BC	5532346.840	627997.316
227	EC	5532448.052	628006.523
228	BC	5532404.883	628089.301
229	EC	5532459.180	628098.089
230	BC	5532354.576	628097.030
231	EC	5532313.785	628105.819
232	EC	5532311.435	628005.045
233	CTR	5532309.935	628005.080
234	EC	5532309.900	628003.580
235	BC	5532409.003	628003.835
236	CTR	5532409.038	628005.334
237	EC	5532497.539	628005.389
238	BC	5532497.851	628010.168
239	CTR	5532499.150	628010.133
240	EC	5532499.185	628011.633
241	BC	5532510.082	628011.378
242	CTR	5532510.047	628008.879
243	EC	5532511.547	628008.844
244	BC	5532513.254	628083.024
245	CTR	5532511.754	628083.099
246	EC	5532511.719	628081.599
247	BC	5532500.622	628081.813
248	CTR	5532500.857	628083.313
249	EC	5532499.257	628083.348
250	BC	5532499.489	628088.147
251	CTR	5532500.989	628088.112
252	EC	5532501.904	628089.511
253	BC	5532511.901	628089.357
254	CTR	5532511.886	628087.858
255	EC	5532513.306	628087.823
256	BC	5532491.440	628005.511
257	CTR	5532489.941	628005.546
258	EC	5532489.906	628004.047
259	BC	5532477.009	628004.348

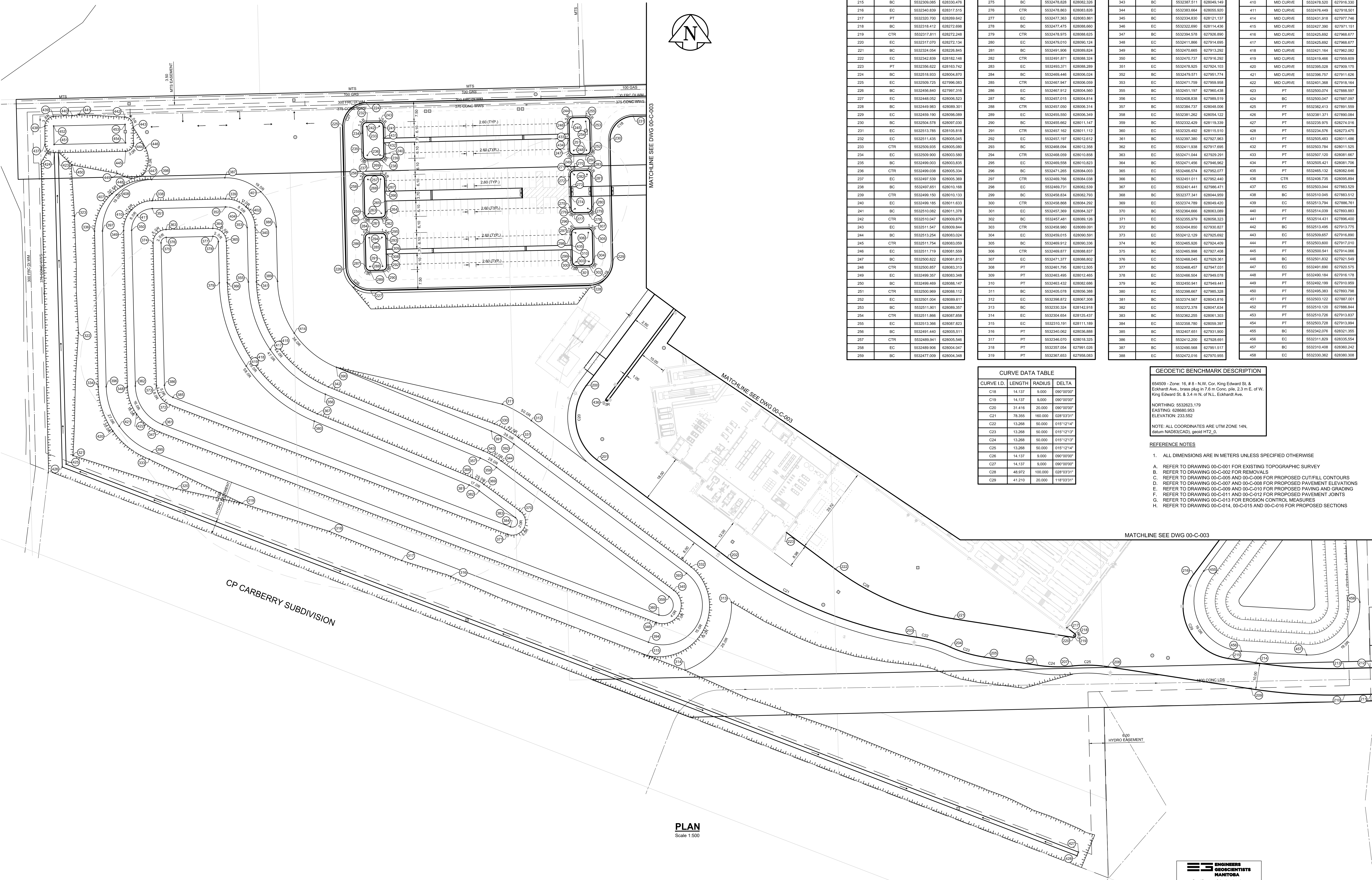
LAYOUT UTM COORDINATES			
POINT I.D.	DESCRIPTION	NORTHING	EASTING
260	CTR	5532477.044	628085.847
261	EC	5532475.545	628085.882
262	BC	5532475.857	628010.811
263	CTR	5532477.156	628010.946
264	EC	5532477.191	628012.146
265	PT	5532481.790	628012.038
266	PT	5532485.489	628011.952
267	BC	5532490.088	628011.845
268	CTR	5532490.053	628010.345
269	EC	5532491.562	628010.310
270	BC	5532493.299	628083.490
271	CTR	5532491.760	628083.525
272	EC	5532491.725	628082.128
273	PT	5532487.126	627963.437
274	PT	5532483.427	628082.219
275	BC	5532478.828	628082.329
276	CTR	5532478.863	628083.828
277	EC	5532477.363	628083.861
278	BC	5532477.475	628088.606
279	CTR	5532478.975	628088.625
280	EC	5532479.010	628080.124
281	BC	5532491.906	628088.824
282	CTR	5532491.871	628088.324
283	EC	5532493.371	628088.289
284	BC	5532499.446	628080.024
285	CTR	5532497.947	628080.059
286	EC	5532497.912	628080.560
287	BC	5532457.015	628084.814
288	CTR	5532457.050	628088.314
289	EC	5532455.550	628088.340
290	BC	5532455.662	628011.147
291	CTR	5532457.162	628011.112
292	EC	5532397.380	627927.963
293	BC	5532466.094	628012.356
294	CTR	5532468.059	628010.858
295	EC	5532468.558	628010.823
296	BC	5532466.574	627952.077
297	CTR	5532468.766	628084.038
298	EC	5532467.731	628082.539
299	BC	5532458.834	628082.793
300	CTR	5532474.789	628049.420
301	EC	5532457.369	628084.327
302	BC	5532457.481	628088.126
303	CTR	5532458.980	628088.091
304	EC	5532459.015	628090.591
305	BC	5532459.912	628090.335
306	CTR	5532469.877	628088.837
307	EC	5532471.377	628088.802
308	PT	5532461.795	628012.505
309	PT	5532463.496	628012.465
310	PT	5532463.432	628080.286
311	BC	5532460.078	628088.368
312	EC	5532298.872	628087.328
313	BC	5532372.379	628142.918
314	EC	5532334.654	628125.437
315	EC	5532310.191	628111.180
316	PT	5532340.062	628038.888
317	PT	5532346.070	628018.325
318	PT	5532357.054	627991.026
319	PT	5532367.653	627990.035

CURVE DATA TABLE			
CURVE I.D.	LENGTH	RADIUS	DELTA
C18	14.137	9.000	990°00'00"
C19	14.137	9.000	990°00'00"
C20	31.416	20.000	990°00'00"
C21	78.355	160.000	028°03'31"
C22	13.268	50.000	015°12'14"
C23	13.268	50.000	015°12'13"
C24	13.268	50.000	015°12'13"
C25	13.268	50.000	015°12'14"
C26	14.137	9.000	990°00'00"
C27	14.137	9.000	990°00'00"
C28	48.972	100.000	028°03'31"
C29	41.210	20.000	118°03'31"

GEODETIC BENCHMARK DESCRIPTION
654509 - Zone: 16, # 8 - N.W. Cor. King Edward St. & Eckhardt Ave., brass plug in 7.6 m Conc. pile, 2.3 m E. of W. King Edward St. & 3.4 m N. of N.L. Eckhardt Ave.
NORTHING: 5532623.179
EASTING: 628080.953
ELEVATION: 233.552
NOTE: ALL COORDINATES ARE UTM ZONE 14N, datum NAD83(CAD), geoid HT2_0.

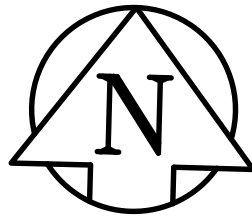
REFERENCE NOTES

1. ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED OTHERWISE
- A. REFER TO DRAWING 00-C-001 FOR EXISTING TOPOGRAPHIC SURVEY
- B. REFER TO DRAWING 00-C-002 FOR REMOVALS
- C. REFER TO DRAWING 00-C-005 AND 00-C-006 FOR PROPOSED CUTFILL CONTOURS
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- E. REFER TO DRAWING 00-C-009 AND 00-C-010 FOR PROPOSED PAVING AND GRADING
- F. REFER TO DRAWING 00-C-011 AND 00-C-012 FOR PROPOSED PAVEMENT JOINTS
- G. REFER TO DRAWING 00-C-013 FOR EROSION CONTROL MEASURES
- H. REFER TO DRAWING 00-C-014, 00-C-015 AND 00-C-016 FOR PROPOSED SECTIONS

PLAN
Scale 1:500

ENGINEERS
GEOSCIENTISTS
MANITOBA
Certificate of Authorization
AECOM Canada ULC
No. 4671 Date: 2025/02/19

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

**REGISTRATION****LEGEND:**

	EXISTING PROPERTY LINE
	EXISTING CURB
	EXISTING CONCRETE WALK
	EXISTING LANE LINE
	EXISTING ROAD EDGE
	EXISTING MANHOLE
	EXISTING CATCHBASIN MANHOLE
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING SIGN
	EXISTING SIGNALIZED TRAFFIC POST
	EXISTING TRAFFIC SIGNAL PIT
	EXISTING CATCH PIT
	LIGHT STANDARD
	HYDRO POLE
	MTS PEDESTAL
	HYDRO POLE ANCHOR
	IRON BAR
	MTS MANHOLE
	HYDRO PEDESTAL
	EXISTING WATERMAIN
	EXISTING WASTEWATER SEWER
	EXISTING LAND DRAINAGE SEWER
	EXISTING GAS LINE
	EXISTING MTS LINE
	EXISTING HYDRO LINE
	BOREHOLE
	MONITORING WELL
	TREE
	ELEVATION
	ROOF DRAIN

CONTOUR LEGEND

	MAJOR CONTOUR - CUT
	MINOR CONTOUR - CUT
	ZERO CUT FILL CONTOUR
	MAJOR CONTOUR - FILL
	MINOR CONTOUR - FILL

GEODETC BENCHMARK DESCRIPTION

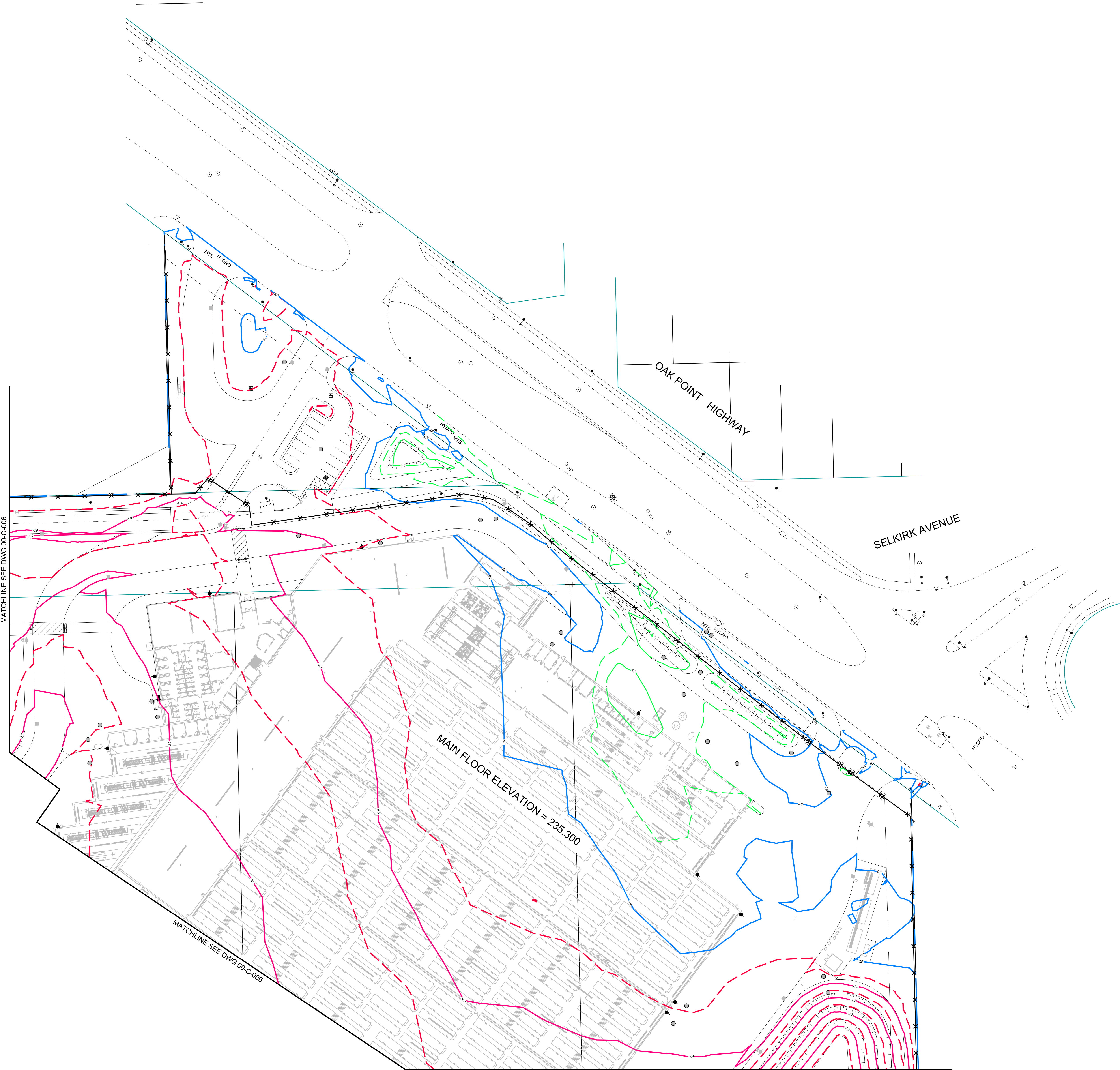
654509 - Zone: 16, # 8 - N.W. Cor. King Edward St. & Eckhardt Ave., brass plug in 7.6 m Conc. pile, 2.3 m E. of W. King Edward St. & 3.4 m N. of N.L. Eckhardt Ave.

NORTHING: 5532623.179
EASTING: 626860.953
ELEVATION: 233.552

NOTE: ALL COORDINATES ARE UTM ZONE 14N,
datum NAD83(CAD), geoid HT2_0.

REFERENCE NOTES

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- REFER TO DRAWING 00-C-014, 00-C-015 AND 00-C-016 FOR PROPOSED SECTIONS

**PLAN**
Scale 1:500

MATCHLINE SEE DWG 00-C-006

METRICWHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES**ISSUE/REVISION**

IR	DATE	DESCRIPTION
0	2025/02/19	ISSUED FOR TENDER

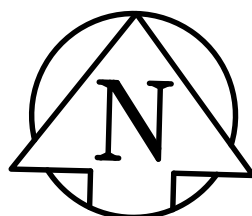
PROJECT NUMBER

60721079

SHEET TITLECUT/FILL CONTOUR PLAN
1 of 2**SHEET NUMBER**

00-C-005

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES



PROJECT
WINNIPEG NORTH GARAGE
REPLACEMENT

100 Oak Point Hwy, Winnipeg, MB R2R 1V

CLIENT

City of Winnipeg
510 Main St.
Winnipeg, MB R3B 1B9
TEL 1.877.311.4974 FAX 1.204.986.1311

CONSULTANT

AECOM CANADA ULC
99 Commerce Dr
Winnipeg, MB R3P 0Y7



REGISTRATION

LEGEND:

- EXISTING PROPERTY LINE
 - - - - - EXISTING CURB
 ————— EXISTING CONCRETE WALL
 ————— EXISTING LANE LINE
 ————— EXISTING ROAD EDGE
 ⊙ EXISTING MANHOLE
 ⊙ EXISTING CATCHBASIN MANHOLE
 ⊕ EXISTING WATER VALVE
 ⚡ EXISTING FIRE HYDRANT
 ♣ EXISTING SIGN
 ➔ EXISTING SIGNALIZED TRAFFIC POST
 ⊕ PIT EXISTING TRAFFIC SIGNAL PIT
 ▽ EXISTING CATCH PIT
 ➔ LIGHT STANDARD
 ♣₄ HYDRO POLE
 ⚡ MTS
 ⚡ HYDRO POLE ANCHOR
 ⊕ IRON BAR
 ⊕₄ MTS MANHOLE
 ⚡ HYDRO PEDESTAL
 ————— EXISTING WATERMAIN
 ————— EXISTING WASTEWATER SEWER
 - - - - - EXISTING LAND DRAINAGE SEWER
 ————— EXISTING GAS LINE
 - - - - - EXISTING MTS LINE
 ————— EXISTING HYDRO LINE
 ⊕ BOREHOLE
 ⊕ MONITORING WELL
 (ELEVATION)
 238,000 MAJOR CONTOUR LINE
 ————— MINOR CONTOUR LINE
 ● ROOF DRAIN

ISSUE/REVISION

0	2025/02/19	ISSUED FOR TENDER
I/R	DATE	DESCRIPTION

PROJECT NUMBER

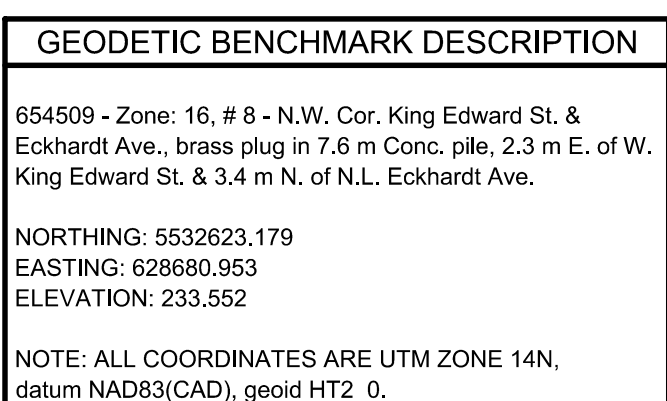
60721079

SHEET TITLE

PAVEMENT ELEVATION PLAN
1 of 2

SHEET NUMBER

00-C-007



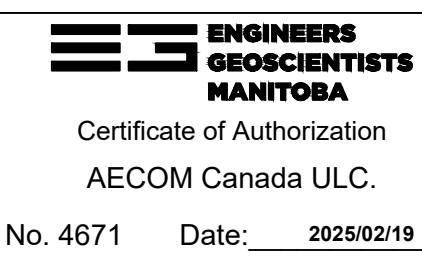
REFERENCE NOTES

1. ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED OTHERWISE
- A. REFER TO DRAWING 00-C-001 FOR EXISTING TOPOGRAPHIC SURVEY
- B. REFER TO DRAWING 00-C-002 FOR REMOVALS
- C. REFER TO DRAWING 00-C-003 AND 00-C-004 FOR PROPOSED HORIZONTAL GEOMETRY
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- E. REFER TO DRAWING 00-C-009 AND 00-C-010 FOR PROPOSED PAVING AND GRADING
- F. REFER TO DRAWING 00-C-011 AND 00-C-012 FOR PROPOSED PAVEMENT JOINTS
- G. REFER TO DRAWING 00-C-013 FOR EROSION CONTROL MEASURES
- H. REFER TO DRAWING 00-C-014, 00-C-015 AND 00-C-016 FOR PROPOSED SECTIONS



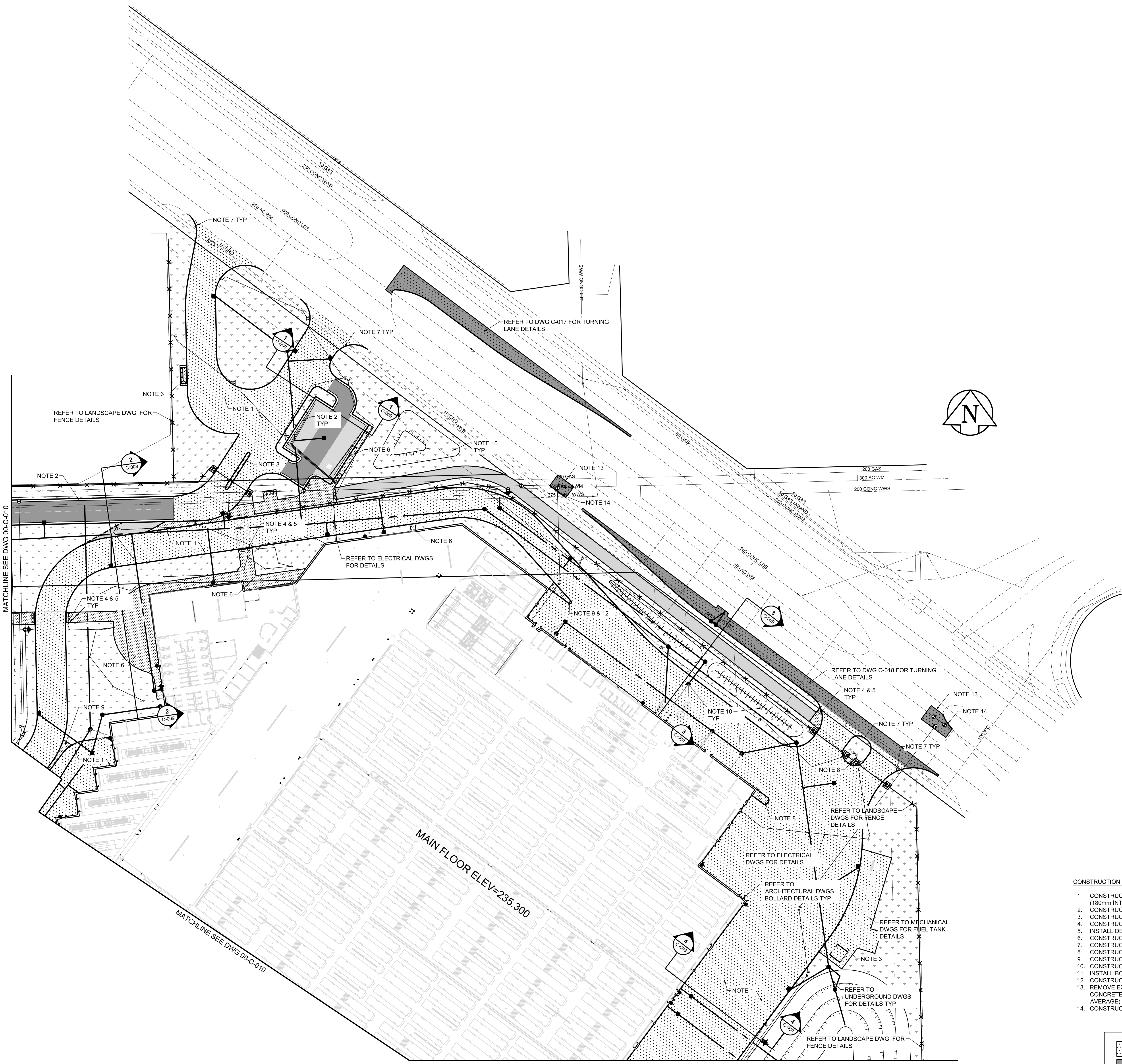
PLAN
Scale 1:500

MATCHLINE SEE DWG 00-C-008



METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES



PLAN
Scale 1:500

CONSTRUCTION NOTES

1. CONSTRUCT 230mm PLAIN DOWELLED CONCRETE PAVEMENT C/W BARRIER CURB (180mm INTEGRAL)
2. CONSTRUCT CONCRETE BARRIER CURB AND GUTTER (150mm HT)
3. CONSTRUCT 150mm REINFORCED CONCRETE PAVEMENT
4. CONSTRUCT NEW CURB RAMP (10-12mm HT, INTEGRAL)
5. INSTALL DETECTABLE WARNING SURFACE TILE
6. CONSTRUCT NEW 100MM CONCRETE SIDEWALK
7. CONSTRUCT MODIFIED CONCRETE BARRIER CURB (180mm HT INTEGRAL)
8. CONSTRUCT MONOLITHIC CONCRETE MEDIAN SLAB
9. CONSTRUCT CONCRETE MEDIAN SLAB
10. CONSTRUCT BERM UTILIZING SITE MATERIAL
11. INSTALL BOLLARD (REFER TO ARCHITECTURAL DWG FOR DETAILS)
12. CONSTRUCT CONCRETE BULLNOSE
13. REMOVE EXISTING PAVEMENT AND CONSTRUCT NEW 230mm PLAIN DOWELLED CONCRETE PAVEMENT c/w ASPHALT PAVEMENT OVERLAY TYPE 1A (50mm AVERAGE)
14. CONSTRUCT NEW BARRIER CURB (150mm HT, REVEAL, SEPARATE)

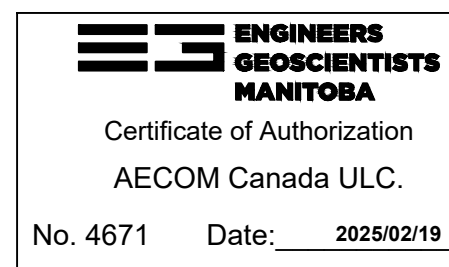
SURFACE TYPE LEGEND

	CONCRETE PAVEMENT
	HEAVY DUTY ASPHALT PAVEMENT
	LIGHT DUTY ASPHALT PAVEMENT
	MULTI-USE PATH ASPHALT PAVEMENT
	100mm IMPORTED TOP SOIL c/w SEED
	CONCRETE SIDEWALK/MEDIAN
	GRANULAR MATERIAL

GEODETIC BENCHMARK DESCRIPTION	
654509 - Zone: 16, # 8 - N.W. Cor. King Edward St. & Eckhardt Ave., brass plug in 7.6 m Conc. pile, 2.3 m E. of W. King Edward St. & 3.4 m N. of N.L. Eckhardt Ave.	
NORTHING: 5532623.179	
EASTING: 628860.953	
ELEVATION: 233.552	
NOTE: ALL COORDINATES ARE UTM ZONE 14N, datum NAD83(CAD), geoid HTZ_0.	

REFERENCE NOTES

1. ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED OTHERWISE
- A. REFER TO DRAWING 00-C-001 FOR EXISTING TOPOGRAPHIC SURVEY
- B. REFER TO DRAWING 00-C-002 FOR REMOVALS
- C. REFER TO DRAWING 00-C-003 AND 00-C-004 FOR PROPOSED HORIZONTAL GEOMETRY
- D. REFER TO DRAWING 00-C-005 AND 00-C-006 FOR PROPOSED CUTFILL CONTOURS
- E. REFER TO DRAWING 00-C-007 AND 00-C-008 FOR PROPOSED PAVEMENT ELEVATIONS
- F. REFER TO DRAWING 00-C-011 AND 00-C-012 FOR PROPOSED PAVEMENT JOINTS
- G. REFER TO DRAWING 00-C-013 FOR EROSION CONTROL MEASURES
- H. REFER TO DRAWING 00-C-014, 00-C-015 AND 00-C-016 FOR PROPOSED SECTIONS



No. 4671 Date: 2025/02/19

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES



REGISTRATION

LEGEND:

	EXISTING PROPERTY LINE
	EXISTING CURB
	EXISTING CONCRETE WALK
	EXISTING LANE LINE
	EXISTING ROAD EDGE
	EXISTING MANHOLE
	EXISTING CATCHBASIN MANHOLE
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING SIGN
	EXISTING SIGNALIZED TRAFFIC POST
	EXISTING TRAFFIC SIGNAL PIT
	EXISTING CATCH PIT
	LIGHT STANDARD
	HYDRO POLE
	MTS PEDESTAL
	HYDRO POLE ANCHOR
	IRON BAR
	MTS MANHOLE
	HYDRO PEDESTAL
	EXISTING WATERMAIN
	EXISTING WASTEWATER SEWER
	EXISTING LAND DRAINAGE SEWER
	EXISTING GAS LINE
	EXISTING MTS LINE
	EXISTING HYDRO LINE
	BOREHOLE
	MONITORING WELL
	TREE
	235.750 ELEVATION
	235.000 MAJOR CONTOUR LINE
	MINOR CONTOUR LINE
	ROOF DRAIN

ISSUE/REVISION

NO.	DATE	DESCRIPTION

0	2025/02/19	ISSUED FOR TENDER
---	------------	-------------------

PROJECT NUMBER

60721079

SHEET TITLE

PAVING AND GRADING PLAN
1 of 2

SHEET NUMBER

00-C-009



REGISTRATION

LEGEND:

---	EXISTING PROPERTY LINE
----	EXISTING CURB
----	EXISTING CONCRETE WALK
----	EXISTING LANE LINE
----	EXISTING ROAD EDGE
⊙	EXISTING MANHOLE
⊙	EXISTING CATCHBASIN MANHOLE
⊙	EXISTING WATER VALVE
⊙	EXISTING FIRE HYDRANT
⊙	EXISTING SIGN
⊙	EXISTING SIGNALIZED TRAFFIC POST
⊙	EXISTING TRAFFIC SIGNAL PIT
⊙	EXISTING CATCH PIT
⊙	LIGHT STANDARD
⊙	HYDRO POLE
⊙	MTS PEDESTAL
⊙	HYDRO POLE ANCHOR
⊙	IRON BAR
⊙	MTS MANHOLE
⊙	HYDRO PEDESTAL
---	EXISTING WATERMAIN
---	EXISTING WASTEWATER SEWER
---	EXISTING LAND DRAINAGE SEWER
---	EXISTING GAS LINE
---	EXISTING MTS LINE
---	EXISTING HYDRO LINE
⊙	BOREHOLE
⊙	MONITORING WELL
⊙	TREE
235.750	ELEVATION
235.000	MAJOR CONTOUR LINE
---	MINOR CONTOUR LINE
•	ROOF DRAIN

ISSUE/REVISION

NO.	DATE	DESCRIPTION
0	2025/02/19	ISSUED FOR TENDER
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

PROJECT NUMBER

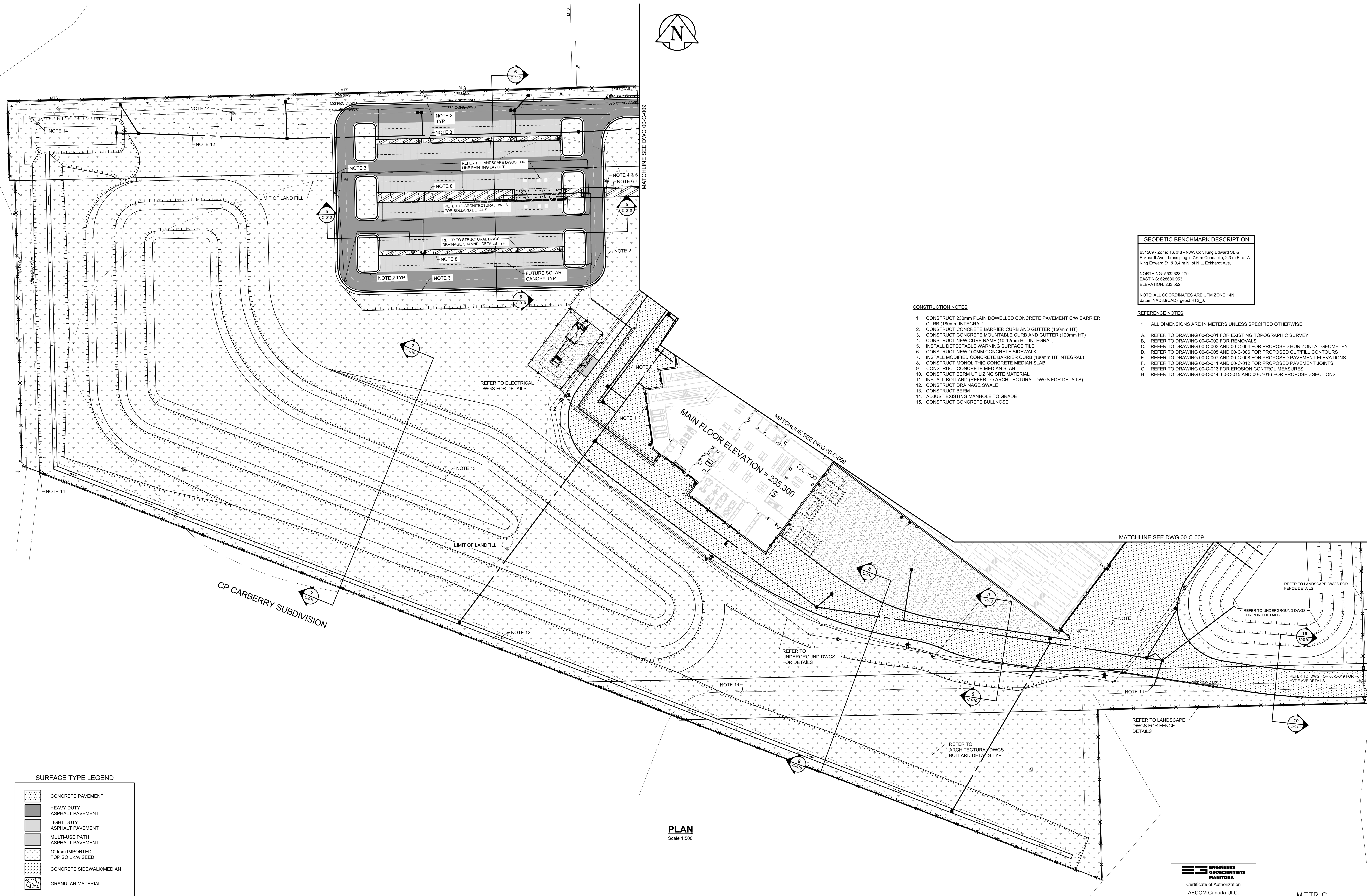
60721079

SHEET TITLE

PAVING AND GRADING PLAN
2 of 2

SHEET NUMBER

00-C-010



CONSTRUCTION NOTES

1. CONSTRUCT 230mm PLAIN DOWELLED CONCRETE PAVEMENT C/W BARRIER CURB (180mm INTEGRAL)
2. CONSTRUCT CONCRETE BARRIER CURB AND GUTTER (150mm HT)
3. CONSTRUCT CONCRETE MOUNTABLE CURB AND GUTTER (120mm HT)
4. CONSTRUCT NEW CURB RAMP (10-12mm HT, INTEGRAL)
5. INSTALL DETECTABLE WARNING SURFACE TILE
6. CONSTRUCT NEW 100MM CONCRETE SIDEWALK
7. INSTALL MODIFIED CONCRETE BARRIER CURB (180mm HT INTEGRAL)
8. CONSTRUCT MONOLITHIC CONCRETE MEDIAN SLAB
9. CONSTRUCT CONCRETE MEDIAN SLAB
10. CONSTRUCT BERM UTILIZING SITE MATERIAL
11. INSTALL BOLLARD (REFER TO ARCHITECTURAL DWGS FOR DETAILS)
12. CONSTRUCT DRAINAGE SWALE
13. CONSTRUCT BERM
14. ADJUST EXISTING MANHOLE TO GRADE
15. CONSTRUCT CONCRETE BULLNOSE

GEODETTIC BENCHMARK DESCRIPTION

654009 - Zone 16, # 8 - N.W. Cor. King Edward St. & Eckhardt Ave., brass plug in 7.6 m Conc. pile, 2.3 m E. of W. King Edward St. & 3.4 m N. of N.L. Eckhardt Ave.
NORTHING: 5532823.179
EASTING: 628660.553
ELEVATION: 233.552
NOTE: ALL COORDINATES ARE UTM ZONE 14N.
(datum: NAD83(CAD), geoid HT2.0)

REFERENCE NOTES

1. ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED OTHERWISE
- A. REFER TO DRAWING 00-C-001 FOR EXISTING TOPOGRAPHIC SURVEY
- B. REFER TO DRAWING 00-C-002 FOR REMOVALS
- C. REFER TO DRAWING 00-C-003 AND 00-C-004 FOR PROPOSED HORIZONTAL GEOMETRY
- D. REFER TO DRAWING 00-C-005 AND 00-C-006 FOR PROPOSED CUTFILL CONTOURS
- E. REFER TO DRAWING 00-C-007 AND 00-C-008 FOR PROPOSED PAVEMENT ELEVATIONS
- F. REFER TO DRAWING 00-C-011 AND 00-C-012 FOR PROPOSED PAVEMENT JOINTS
- G. REFER TO DRAWING 00-C-013 FOR EROSION CONTROL MEASURES
- H. REFER TO DRAWING 00-C-014, 00-C-015 AND 00-C-016 FOR PROPOSED SECTIONS

SURFACE TYPE LEGEND

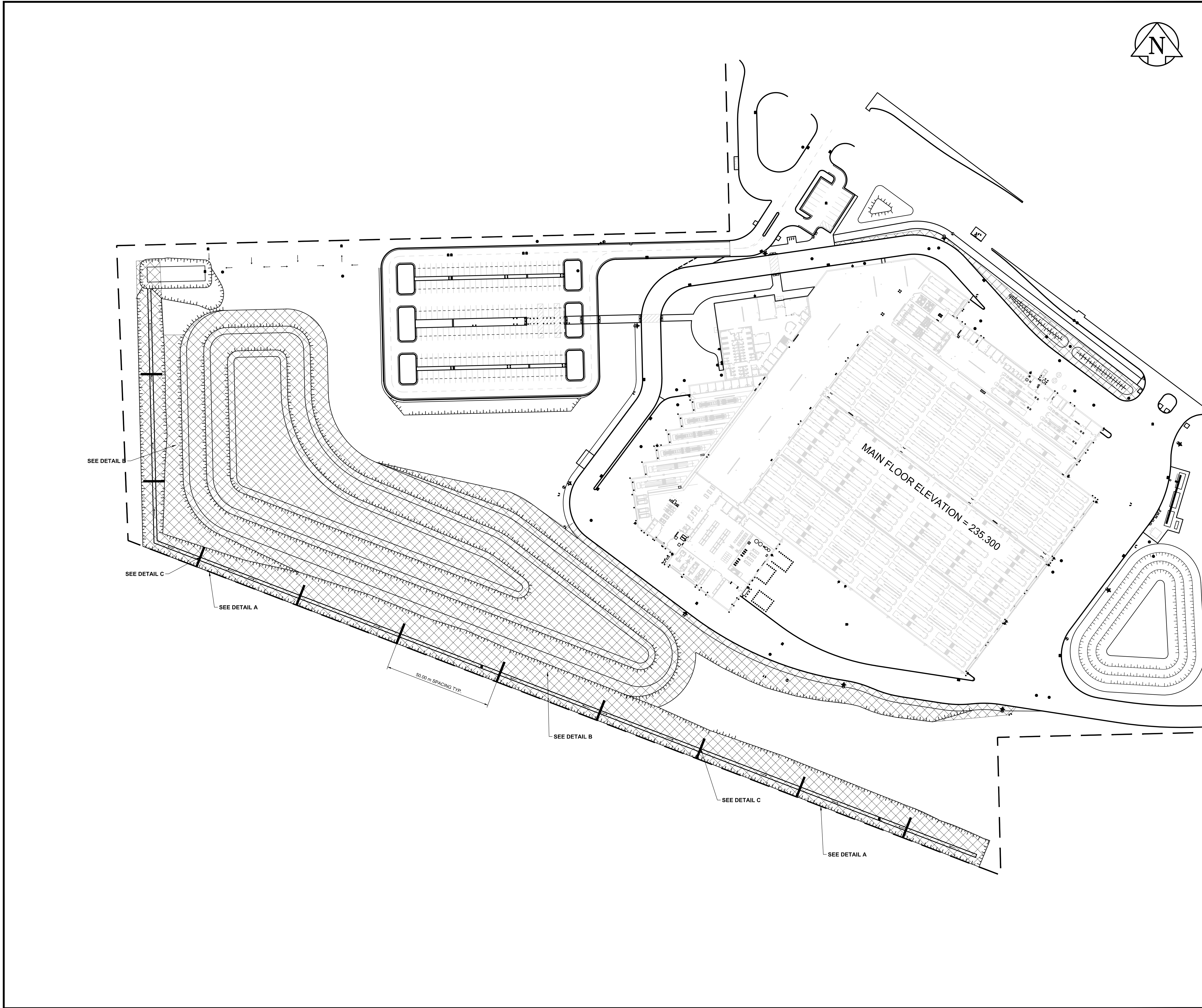
CONCRETE PAVEMENT
HEAVY DUTY ASPHALT PAVEMENT
LIGHT DUTY ASPHALT PAVEMENT
MULTI-USE PATH ASPHALT PAVEMENT
100mm IMPORTED TOP SOIL C/W SEED
CONCRETE SIDEWALK/MEDIAN
GRANULAR MATERIAL

PLAN
Scale 1:500

**ENGINEERS
GEOSCIENTISTS
MANITOBA**
Certificate of Authorization
AECOM Canada ULC
No. 4671 Date: 2025/02/19

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES



OAK POINT HIGHWAY - PLAN VIEW
Scale 1:750

LEGEND

- EROSION CONTROL BLANKET
SILT FENCE
STRAW ROLL DITCH CHECK

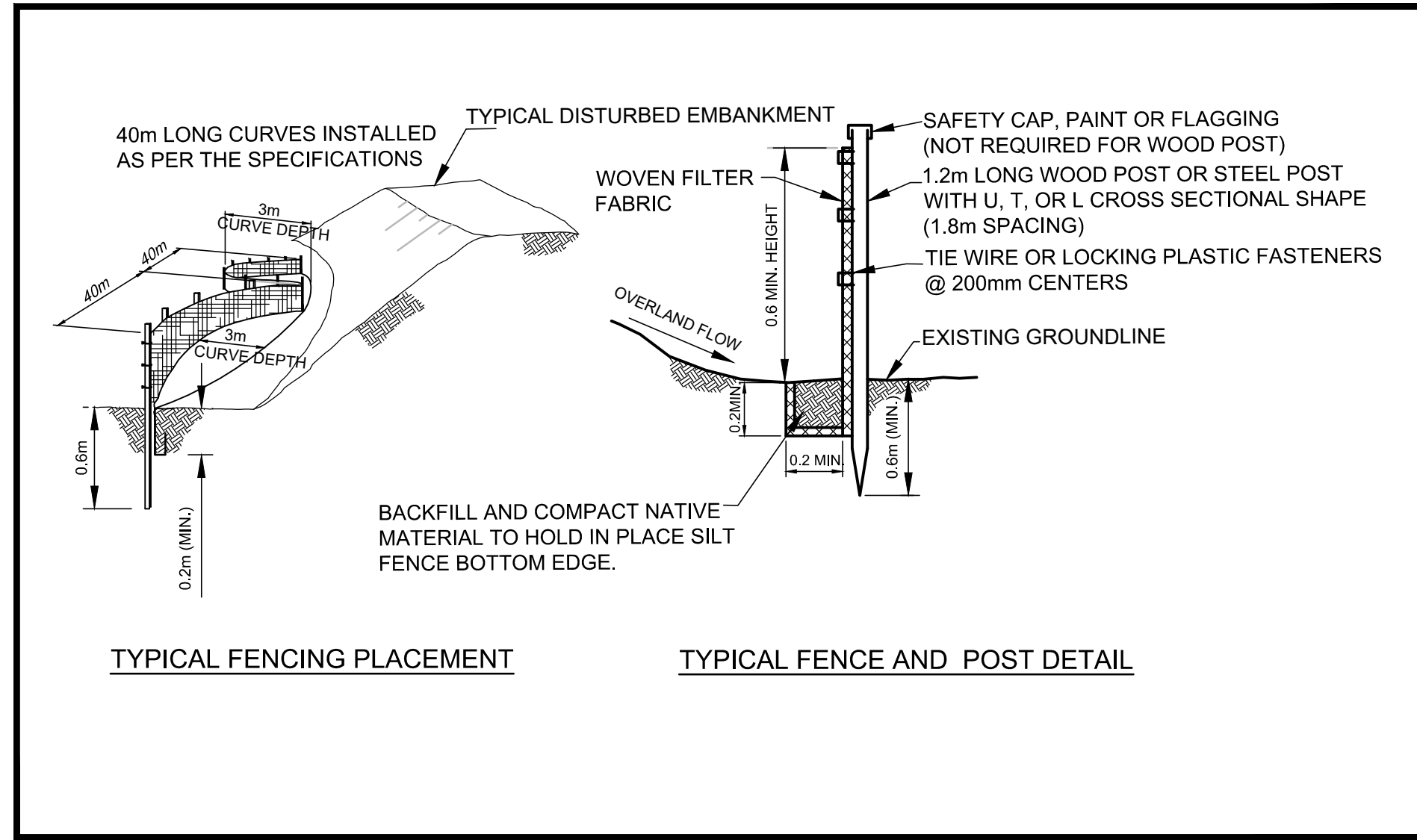
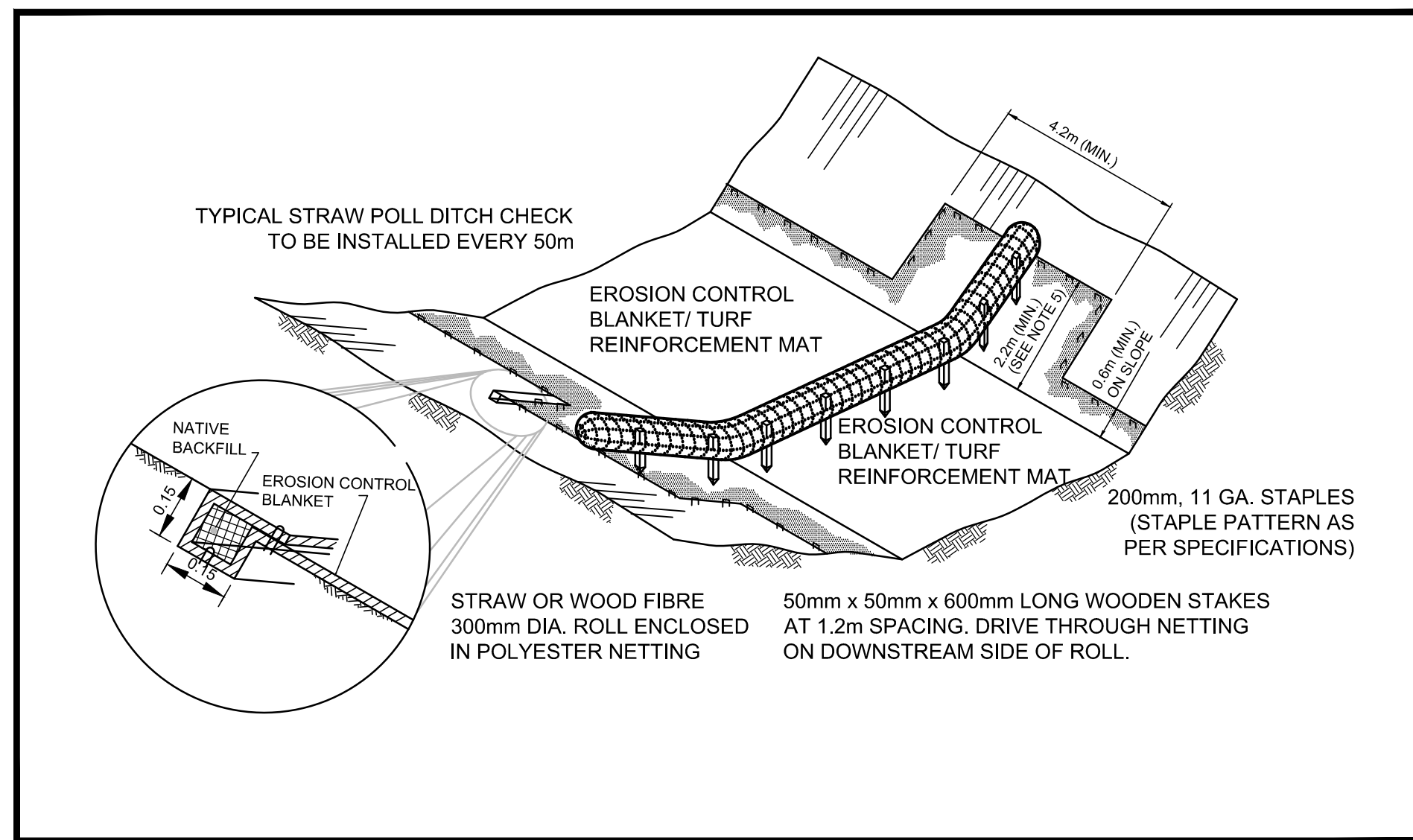
REFERENCE NOTES

- ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED OTHERWISE
- REFER TO DRAWING 00-C-002 FOR REMOVALS
- REFER TO DRAWING 00-C-003 AND 00-C-004 FOR PROPOSED HORIZONTAL GEOMETRY
- REFER TO DRAWING 00-C-005 AND 00-C-006 FOR PROPOSED CUT/FILL CONTOURS
- REFER TO DRAWING 00-C-007 AND 00-C-008 FOR PROPOSED PAVEMENT ELEVATIONS
- REFER TO DRAWING 00-C-009 AND 00-C-010 FOR PROPOSED PAVING AND GRADING
- REFER TO DRAWING 00-C-011 AND 00-C-012 FOR PROPOSED PAVEMENT JOINTS
- REFER TO DRAWING 00-C-014, 00-C-015 AND 00-C-016 FOR PROPOSED SECTIONS

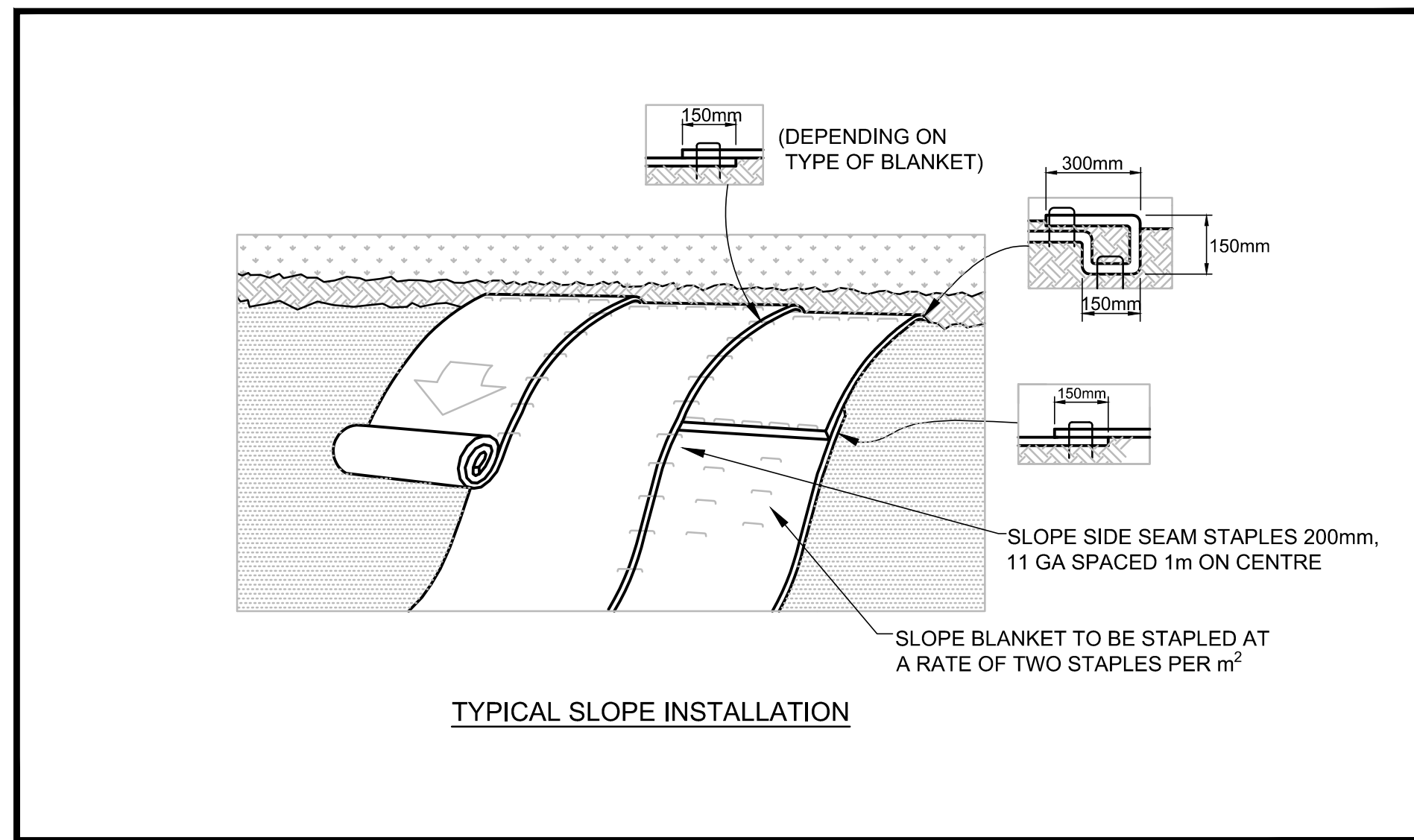
CONSTRUCTION NOTES:

- RE-SEED ALL DISTURBED AREAS
- SEDIMENT AND EROSION CONTROL DETAILS ON THIS DRAWING REPRESENT TYPICAL INSTALLATIONS. FOR LOCATION AND SPECIFIC APPLICATIONS REFER TO APPROPRIATE DRAWING IN THIS CONTRACT
- SILT FENCE SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON DRAWINGS, OR AS DIRECTED BY THE CONTRACT ADMINISTRATOR
- THE TOP OF STEEL POSTS SUPPORTING SILT FENCE POSTS SHALL BE MARKED WITH FLUORESCENT PAINT, FLAGGING TAPE, OR SAFETY CAPS
- THE STRAW ROLL DITCH CHECKS SHALL BE INSTALLED ACCORDING TO SPECIFICATIONS AND DETAIL DRAWINGS
- EROSION CONTROL BLANKET SHALL BE PLACED UNDER THE STRAW ROLL DITCH CHECKS. ECB TO BE 4.2m MINIMUM LENGTH ALONG CHANNEL WITH LEADING EDGE ENTRENCHED AS SHOWN IN DETAIL. THE BLANKET SHALL BE PLACED TO A HEIGHT OF 2.2m UP THE DITCH SIDE SLOPE. WHERE SIDE SLOPE IS LESS THEN 2.2m THE BLANKET AND STRAW ROLL SHALL EXTEND TO TOP OF SLOPE
- EROSION CONTROL BLANKET SHALL BE INSTALLED IMMEDIATELY FOLLOWING GRADING AND SEEDING.
- ALL MATERIALS AND INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.

**C TYPICAL STRAW ROLL DITCH CHECK
DETAIL**
N.T.S.



**A TYPICAL SILT FENCE INSTALLATION
DETAIL**
N.T.S.



**B EROSION CONTROL BLANKET
DETAIL**
N.T.S.

PROJECT

**WINNIPEG NORTH GARAGE
REPLACEMENT**

100 Oak Point Hwy, Winnipeg, MB R2R 1V1

CLIENT

City of Winnipeg
510 Main St.
Winnipeg, MB R3B 1B9
TEL: 877.311.4974 FAX: 1.204.986.1311

CONSULTANT

AECOM CANADA ULC
99 Commerce Dr
Winnipeg, MB R3P 0Y7

REGISTRATION

LEGEND:

- EXISTING PROPERTY LINE
- EXISTING CURB
- EXISTING CONCRETE WALK
- EXISTING LANE LINE
- EXISTING ROAD EDGE
- EXISTING MANHOLE
- EXISTING CATCHBASIN MANHOLE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING SIGN
- EXISTING SIGNALIZED TRAFFIC POST
- EXISTING TRAFFIC SIGNAL PIT
- EXISTING CATCH PIT
- LIGHT STANDARD
- HYDRO POLE
- MTS PEDESTAL
- HYDRO POLE ANCHOR
- IRON BAR
- MTS MANHOLE
- HYDRO PEDESTAL
- EXISTING WATERMAIN
- EXISTING WASTEWATER SEWER
- EXISTING LAND DRAINAGE SEWER
- EXISTING GAS LINE
- EXISTING MTS LINE
- EXISTING HYDRO LINE
- BOREHOLE
- MONITORING WELL
- TREE
- ELEVATION
- MAJOR CONTOUR LINE
- MINOR CONTOUR LINE
- ROOF DRAIN

ISSUE/REVISION

NO.	DATE	DESCRIPTION
0	2025/02/19	ISSUED FOR TENDER

PROJECT NUMBER

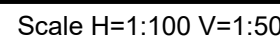
60721079

SHEET TITLE

EROSION CONTROL MEASURES

SHEET NUMBER

00-C-013



PROJECT

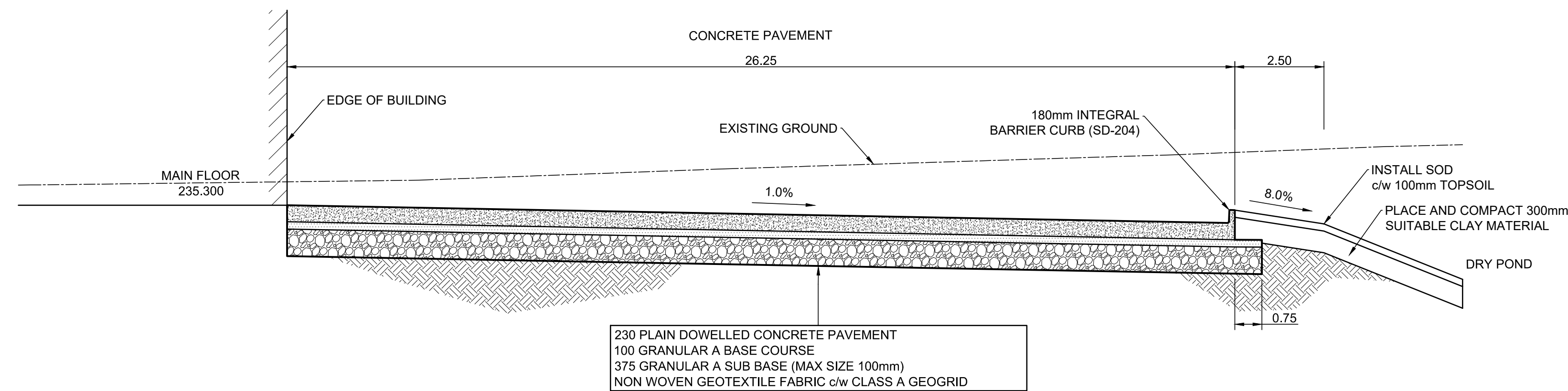
WINNIPEG NORTH GARAGE
REPLACEMENT

100 Oak Point Hwy, Winnipeg, MB R2R 1V1

CLIENT

City of Winnipeg
510 Main St.
Winnipeg, MB R3B 1B9
TEL 1.877.311.4974 FAX 1.204.986.1311

CONSULTANT

AECOM CANADA ULC
99 Commerce Dr
Winnipeg, MB R3P 0Y7

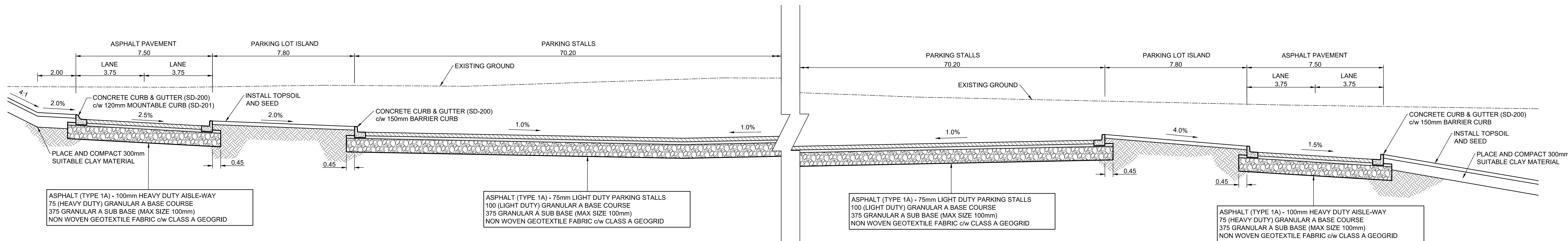
REFERENCE NOTES

1. ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED OTHERWISE

- A. REFER TO DRAWING 00-C-001 FOR EXISTING TOPOGRAPHIC SURVEY
B. REFER TO DRAWING 00-C-002 FOR REMOVALS
C. REFER TO DRAWING 00-C-003 AND 00-C-004 FOR PROPOSED HORIZONTAL GEOMETRY
D. REFER TO DRAWING 00-C-005 AND 00-C-006 FOR PROPOSED CUT/FILL CONTOURS
E. REFER TO DRAWING 00-C-007 AND 00-C-008 FOR PROPOSED PAVEMENT ELEVATIONS
F. REFER TO DRAWING 00-C-009 AND 00-C-010 FOR PROPOSED PAVING AND GRADING
G. REFER TO DRAWING 00-C-011 AND 00-C-012 FOR PROPOSED PAVEMENT JOINTS
H. REFER TO DRAWING 00-C-013 FOR EROSION CONTROL MEASURES

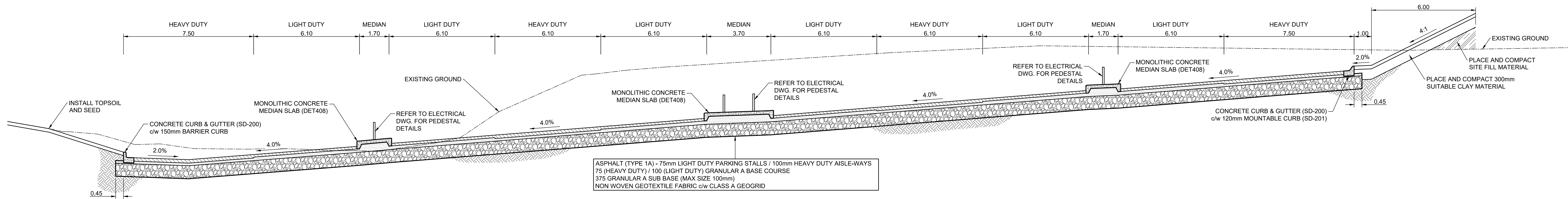
4 EAST CONCRETE CROSS SECTION

Scale H=1:100 V=1:50



5 PARKING LOT CROSS SECTION

Scale H=1:100 V=1:50



6 PARKING LOT CROSS SECTION

Scale H=1:100 V=1:50

REGISTRATION

LEGEND:

- EXISTING PROPERTY LINE
- - - EXISTING CURB
— EXISTING CONCRETE WALK
— EXISTING LANE LINE
— EXISTING ROAD EDGE
⊙ EXISTING MANHOLE
⊙ EXISTING CATCHBASIN MANHOLE
⊕ EXISTING WATER VALVE
⊕ EXISTING FIRE HYDRANT
⊕ EXISTING SIGN
⊕ EXISTING SIGNALIZED TRAFFIC POST
⊕ EXISTING TRAFFIC SIGNAL PIT
▽ EXISTING CATCH PIT
⊕ LIGHT STANDARD
⊕ HYDRO POLE
⊕ MTS PEDESTAL
⊕ HYDRO POLE ANCHOR
⊕ IRON BAR
⊕ MTS MANHOLE
⊕ HYDRO PEDESTAL
— EXISTING WATERMAIN
— EXISTING WASTEWATER SEWER
— EXISTING LAND DRAINAGE SEWER
— EXISTING GAS LINE
— EXISTING MTS LINE
— EXISTING HYDRO LINE
⊕ BOREHOLE
⊕ MONITORING WELL
⊕ TREE
⊕ ELEVATION
235.000 MAJOR CONTOUR LINE
— MINOR CONTOUR LINE

ISSUE/REVISION

IR	DATE	DESCRIPTION
0	2025/02/19	ISSUED FOR TENDER

PROJECT NUMBER

60721079

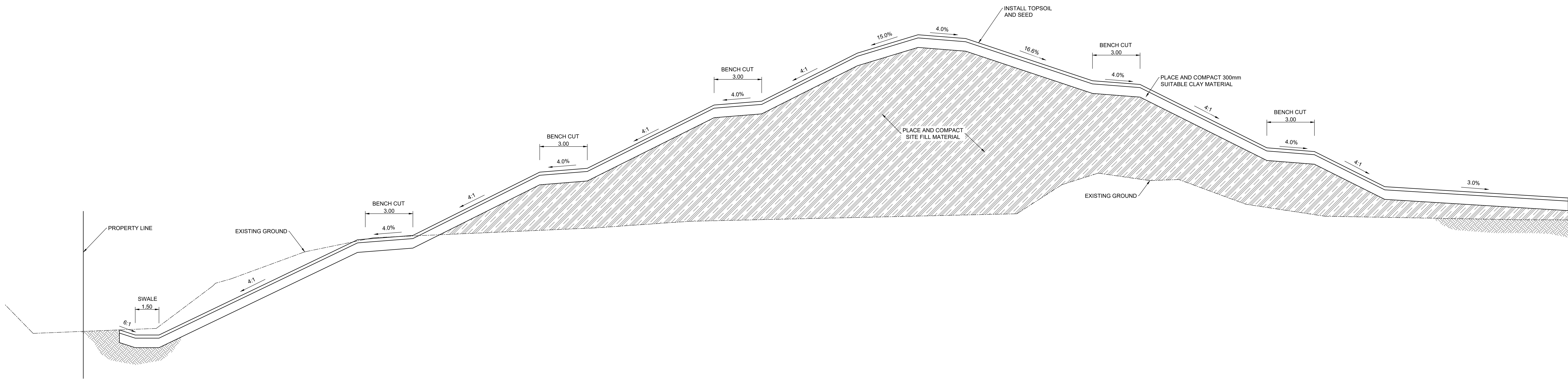
SHEET TITLE

CROSS SECTIONS

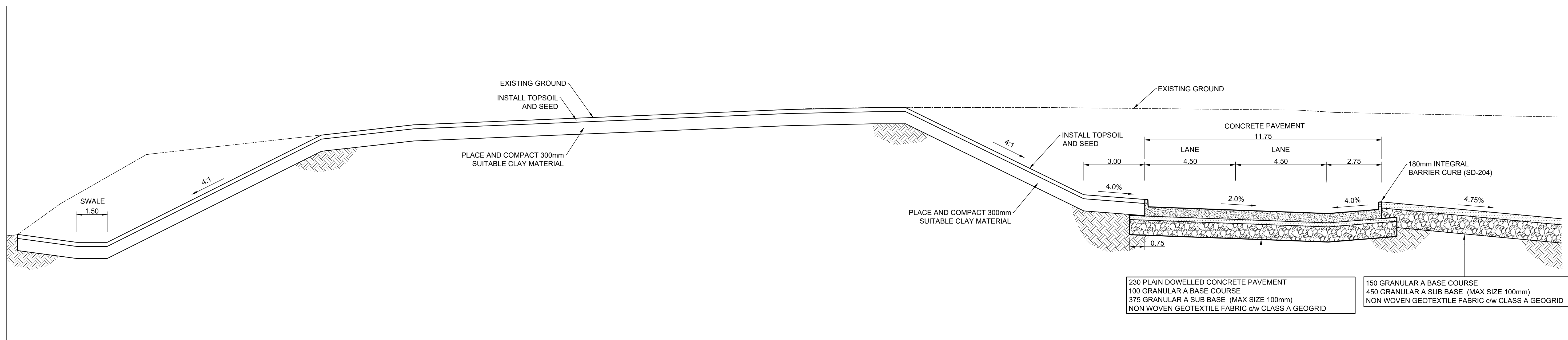
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SHEET NUMBER

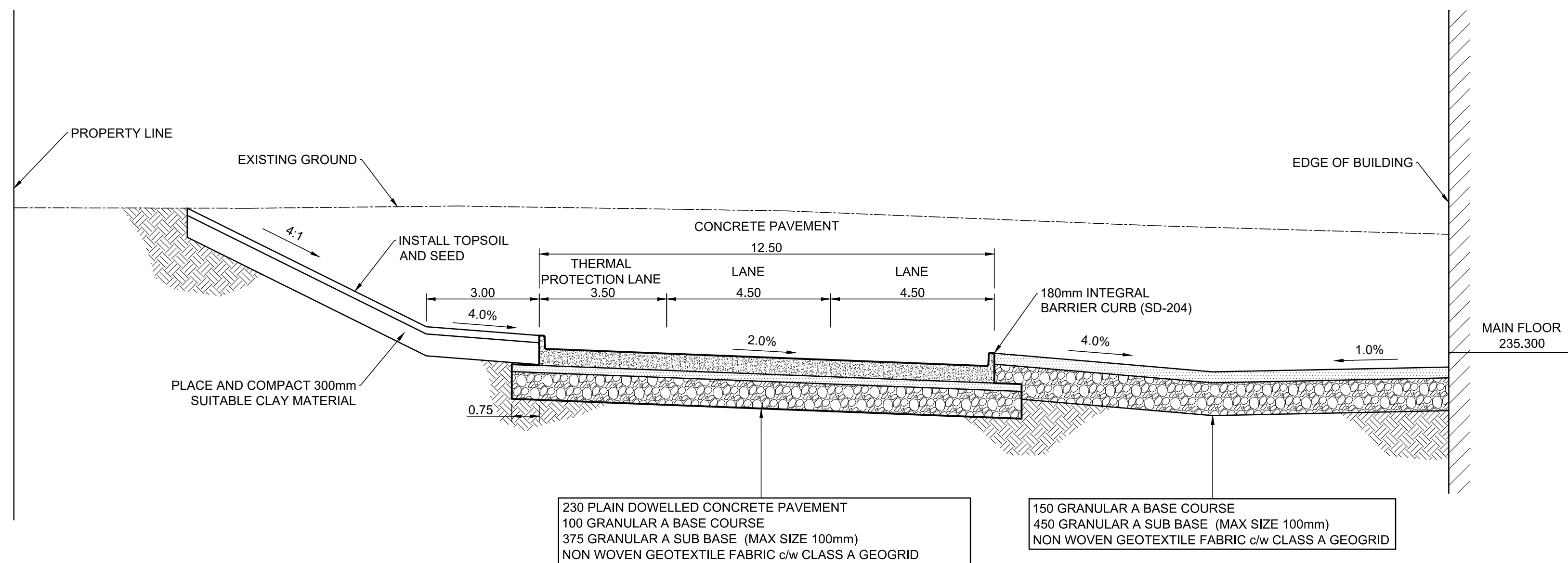
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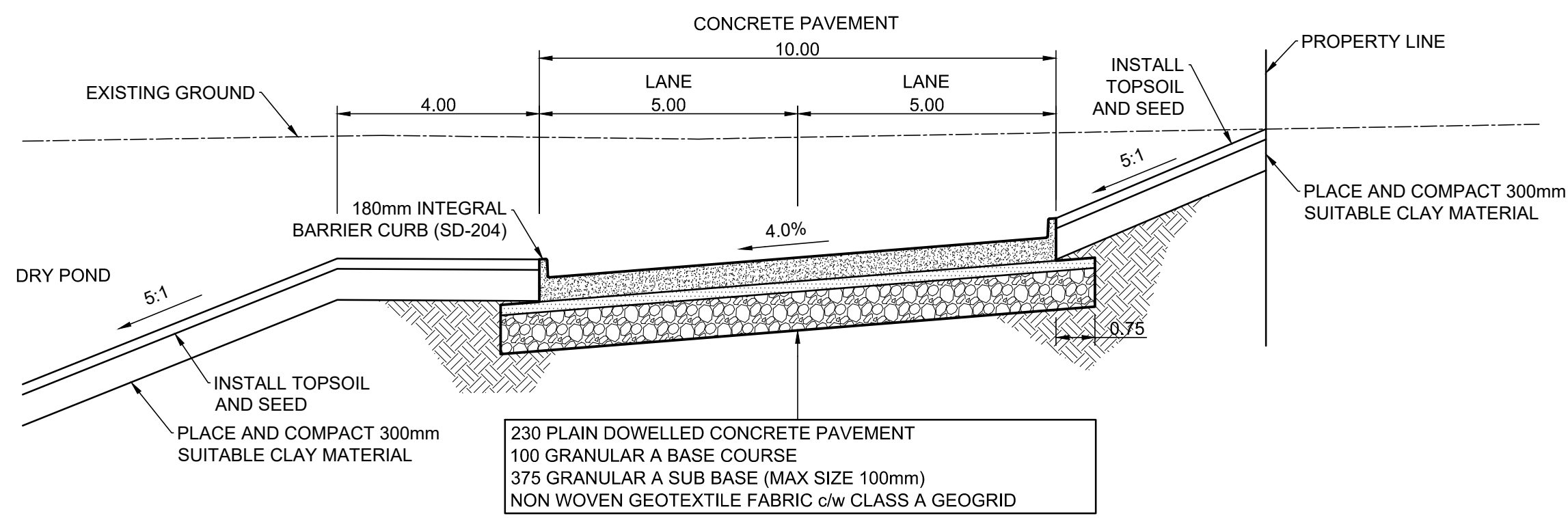
7 BERM CROSS SECTION
Scale H=1:100 V=1:50



8 GRADED AREA CROSS SECTION
Scale H=1:100 V=1:50



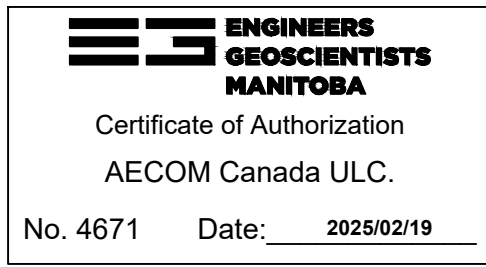
9 BUS AISLE CROSS SECTION
Scale H=1:100 V=1:50



10 HYDE AVENUE ACCESS CROSS SECTION
Scale H=1:100 V=1:50

REFERENCE NOTES

- ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED OTHERWISE
- REFER TO DRAWING 00-C-001 FOR EXISTING TOPOGRAPHIC SURVEY
- REFER TO DRAWING 00-C-002 FOR REMOVALS
- REFER TO DRAWING 00-C-003 AND 00-C-004 FOR PROPOSED HORIZONTAL GEOMETRY
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- REFER TO DRAWING 00-C-007 AND 00-C-008 FOR PROPOSED PAVEMENT ELEVATIONS
- REFER TO DRAWING 00-C-009 AND 00-C-010 FOR PROPOSED PAVING AND GRADING
- REFER TO DRAWING 00-C-011 AND 00-C-012 FOR PROPOSED PAVEMENT JOINTS
- REFER TO DRAWING 00-C-013 FOR EROSION CONTROL MEASURES



METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

PROJECT

WINNIPEG NORTH GARAGE REPLACEMENT

100 Oak Point Hwy, Winnipeg, MB R2R 1V1

CLIENT

City of Winnipeg
510 Main St.
Winnipeg, MB R3B 1B9
TEL: 1.877.311.4974 FAX: 1.204.986.1311

CONSULTANT

AECOM CANADA ULC
90 Commerce Dr
Winnipeg, MB R3P 0Y7

REGISTRATION

LEGEND:

- EXISTING PROPERTY LINE
- EXISTING CURB
- EXISTING CONCRETE WALK
- EXISTING LANE LINE
- EXISTING ROAD EDGE
- EXISTING MANHOLE
- EXISTING CATCHBASIN MANHOLE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING SIGN
- EXISTING SIGNALIZED TRAFFIC POST
- EXISTING TRAFFIC SIGNAL PIT
- EXISTING CATCH PIT
- LIGHT STANDARD
- HYDRO POLE
- MTS PEDESTAL
- HYDRO POLE ANCHOR
- IRON BAR
- MTS MANHOLE
- HYDRO PEDESTAL
- EXISTING WATERMAIN
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- EXISTING MTS LINE
- EXISTING HYDRO LINE
- BOREHOLE
- MONITORING WELL
- TREE
- ELEVATION
- MAJOR CONTOUR LINE
- MINOR CONTOUR LINE

ISSUE/REVISION

NO.	DATE	DESCRIPTION
0	2025/02/19	ISSUED FOR TENDER

PROJECT NUMBER

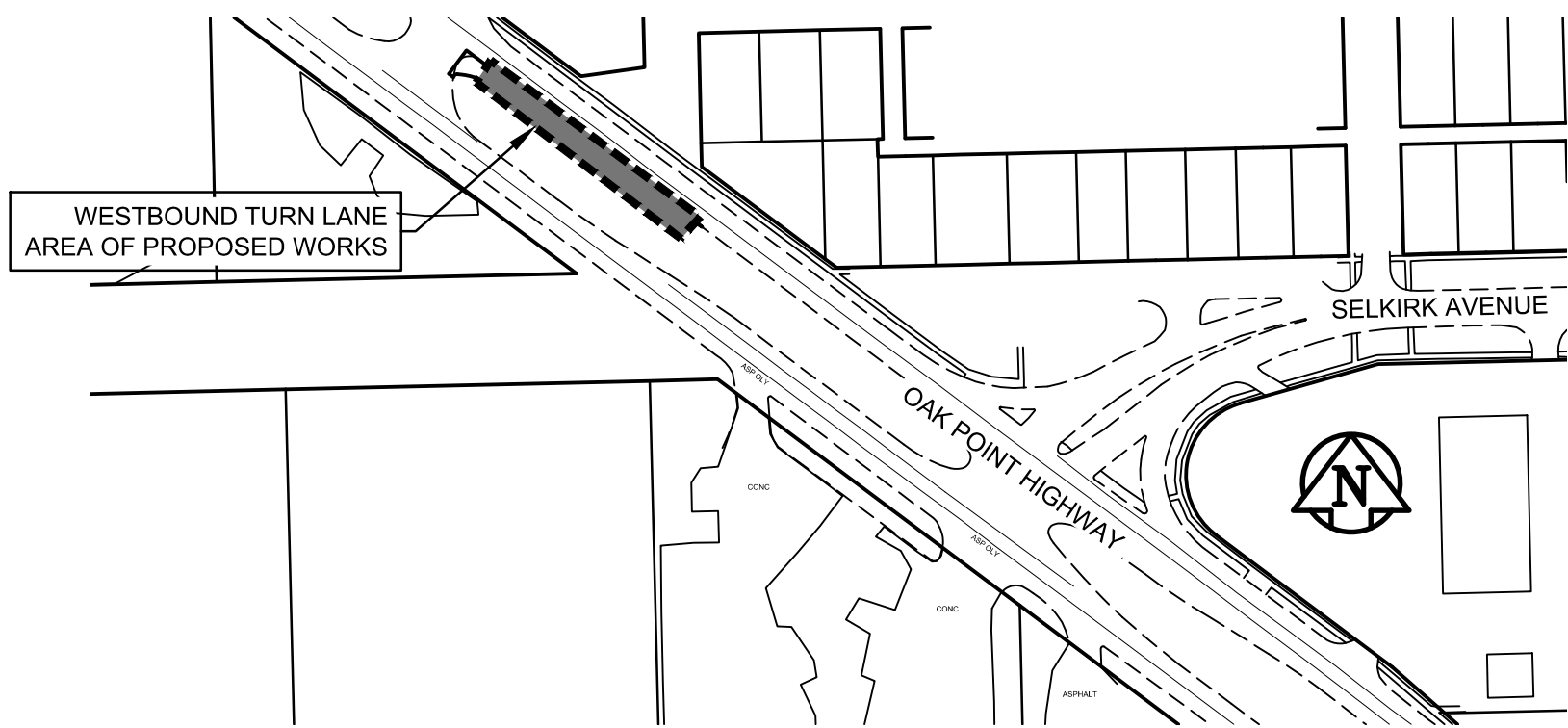
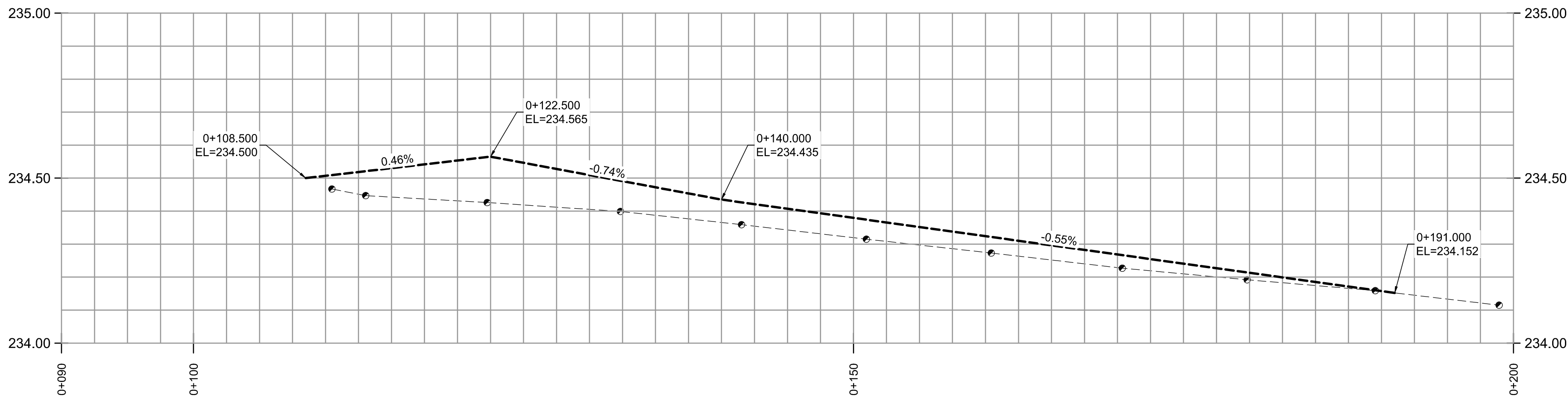
60721079

SHEET TITLE

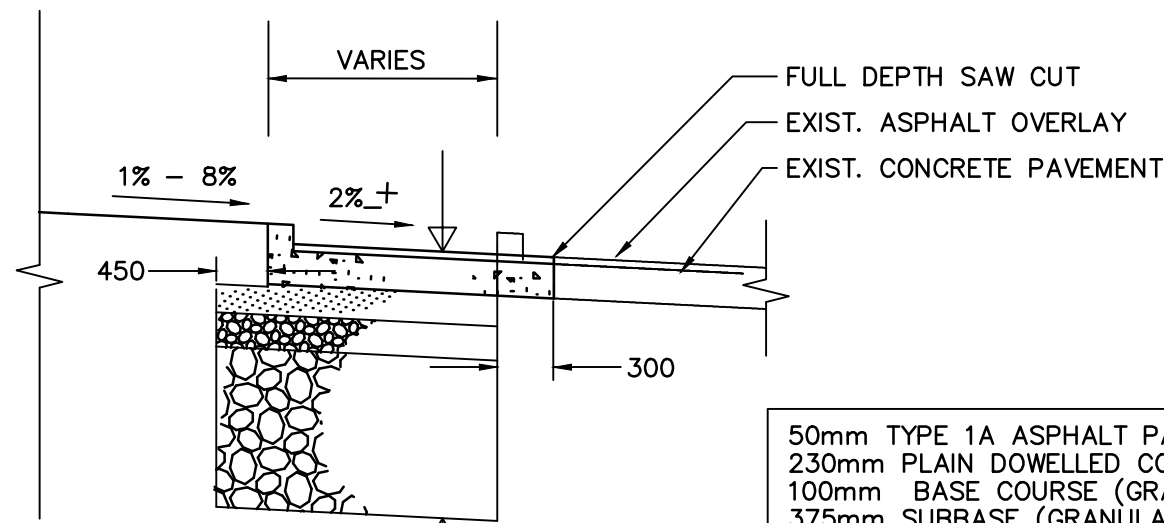
CROSS SECTIONS
3 of 3

SHEET NUMBER

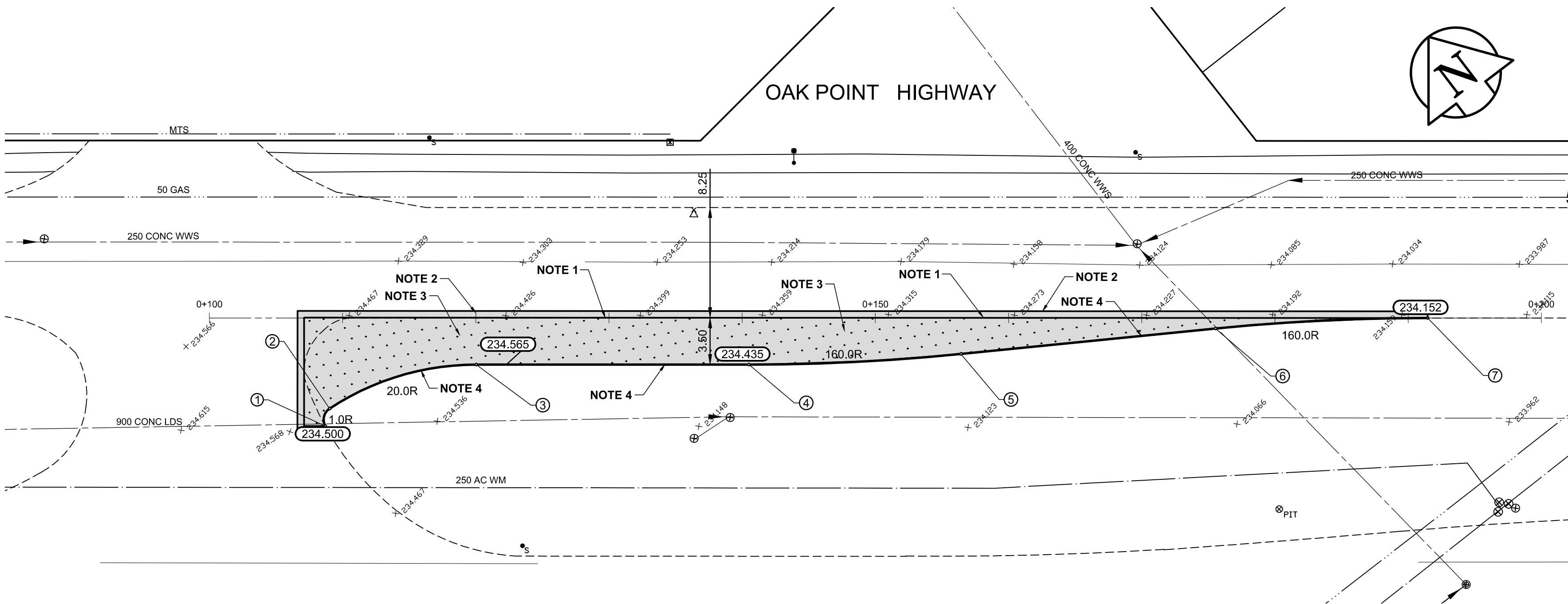
00-C-016



KEY PLAN
N.T.S.



TURNING LANE DETAIL
N.T.S.



LAYOUT UTM COORDINATES			
POINT I.D.	DESCRIPTION	NORTHING	EASTING
1	BC	5532583.394	628224.162
2	EC	5532584.253	628225.212
3	EC	5532580.301	628236.002
4	BC	5532568.034	628252.393
5	EC	5532559.131	628265.615
6	BC	5532549.206	628282.069
7	EC	5532540.303	628295.291

REFERENCE NOTES:

- PAVEMENT DIMENSIONS ARE TO BACK OF CURB
- BASELINE IS CENTRE LINE ROADWAY
- PROPERTY LINES OBTAINED FROM CITY OF WINNIPEG L.B.I.S., AND NO SCALE FACTOR WAS APPLIED

CONSTRUCTION NOTES:

- REMOVE EXISTING EXISTING BARRIER CURB
- REMOVE EXISTING ASPHALT AND PLACE NEW ASPHALT PAVEMENT OVERLAY TYPE 1A (50mm AVERAGE)
- REMOVE EXISTING PAVEMENT AND CONSTRUCT NEW 230mm PLAIN DOWELLED CONCRETE PAVEMENT c/w ASPHALT PAVEMENT OVERLAY TYPE 1A (50mm AVERAGE)
- CONSTRUCT NEW BARRIER CURB (150mm HT. REVEAL, SEPARATE)

ENGINEERS
GEOSCIENTISTS
MANITOBA

Certificate of Authorization
AECOM Canada ULC.
No. 4671 Date: 2025/02/19

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

150 mm W.M.	WATERMAIN	150 mm W.M.	HYDRO	150 mm W.M.	HYDRO	150 mm W.M.	HYDRO
+	HYDRANT	+	M.T.S.	+	M.T.S.	+	M.T.S.
⊗	VALVE	⊗	CONCRETE	⊗	CONCRETE	⊗	CONCRETE
300mm L.D.S.	LAND DRAINAGE SEWER	300mm L.D.S.	ASPHALT	300mm L.D.S.	ASPHALT	300mm L.D.S.	ASPHALT
250mm W.W.S.	WASTEWATER SEWER	250mm W.W.S.	PROPERTY LINE	250mm W.W.S.	PROPERTY LINE	250mm W.W.S.	PROPERTY LINE
○	MANHOLE	○	SURVEY BAR	○	SURVEY BAR	○	SURVEY BAR
□	CATCH BASIN	□	ELEVATION (35.750)	□	ELEVATION (35.750)	□	ELEVATION (35.750)
▽	CATCH PIT	▽	TREE	▽	TREE	▽	TREE
↑	TRAFFIC SIGNAL POLE	↑	SIDEWALK RAMP	↑	SIDEWALK RAMP	↑	SIDEWALK RAMP
!	STREET LIGHT	!	CONCRETE SIDEWALK FENCE	!	CONCRETE SIDEWALK FENCE	!	CONCRETE SIDEWALK FENCE
—	GAS	—		—		—	
EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PROFILE

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE DATE

NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M. ELEV. 654509 - Zone: 18, # 8 - N.W. Cor. King Edward St. & Eckhardt Ave., brass plug in 7.6 m Conc. pile, 2.3 m E. of W. L. King Edward St. & 3.4 m N. of N.L. Eckhardt Ave. ELEVATION: 233.552
HORIZONTAL: Northing: 5532623.175; Easting: 628680.953

AECOM

DESIGNED BY	SS	CHECKED BY	BC, RC
DRAWN BY	SS	APPROVED BY	RC
HOR. SCALE:	1:250	RELEASED FOR CONSTRUCTION BY:	
VERTICAL:	1:10		
A ISSUED FOR TENDER	2025/02/19	BC	
NO. REVISIONS	DATE	BY	

DESIGNED BY	SS	CHECKED BY	BC, RC
DRAWN BY	SS	APPROVED BY	RC
HOR. SCALE:	1:250	RELEASED FOR CONSTRUCTION BY:	
VERTICAL:	1:10		
A ISSUED FOR TENDER	2025/02/19	BC	
NO. REVISIONS	DATE	BY	

ENGINEER'S SEAL

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

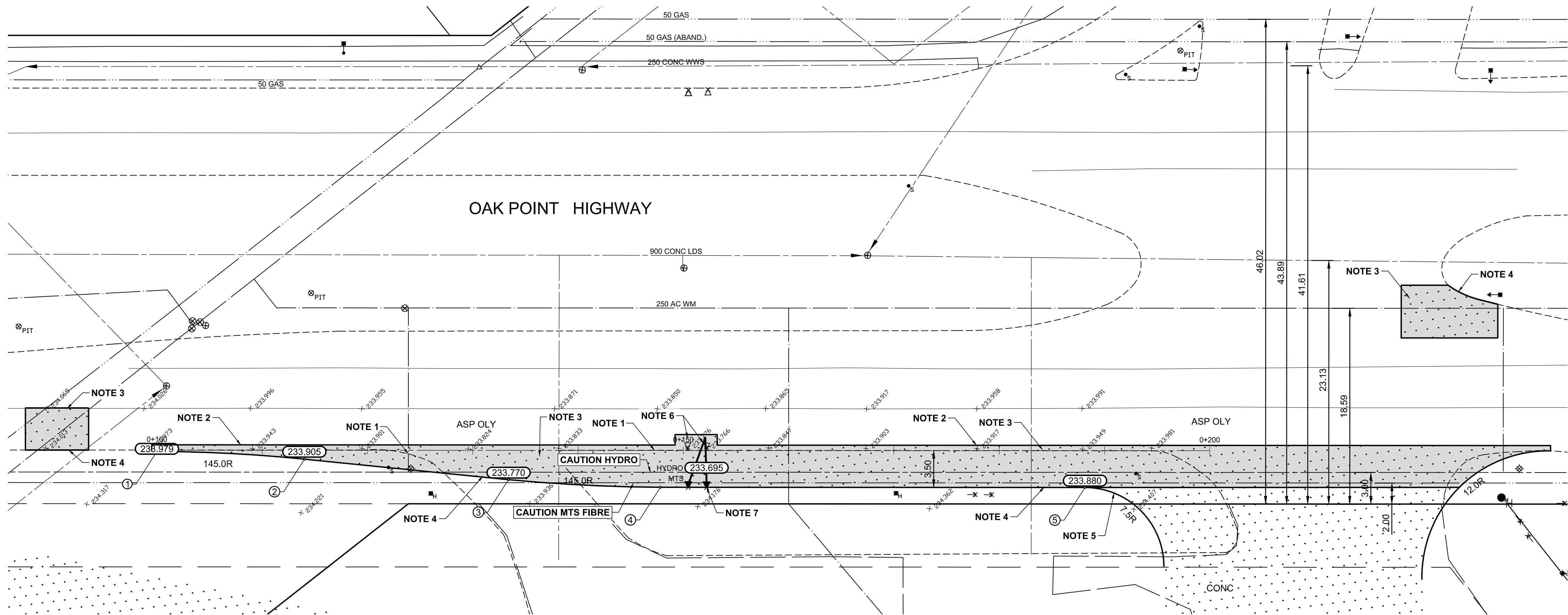
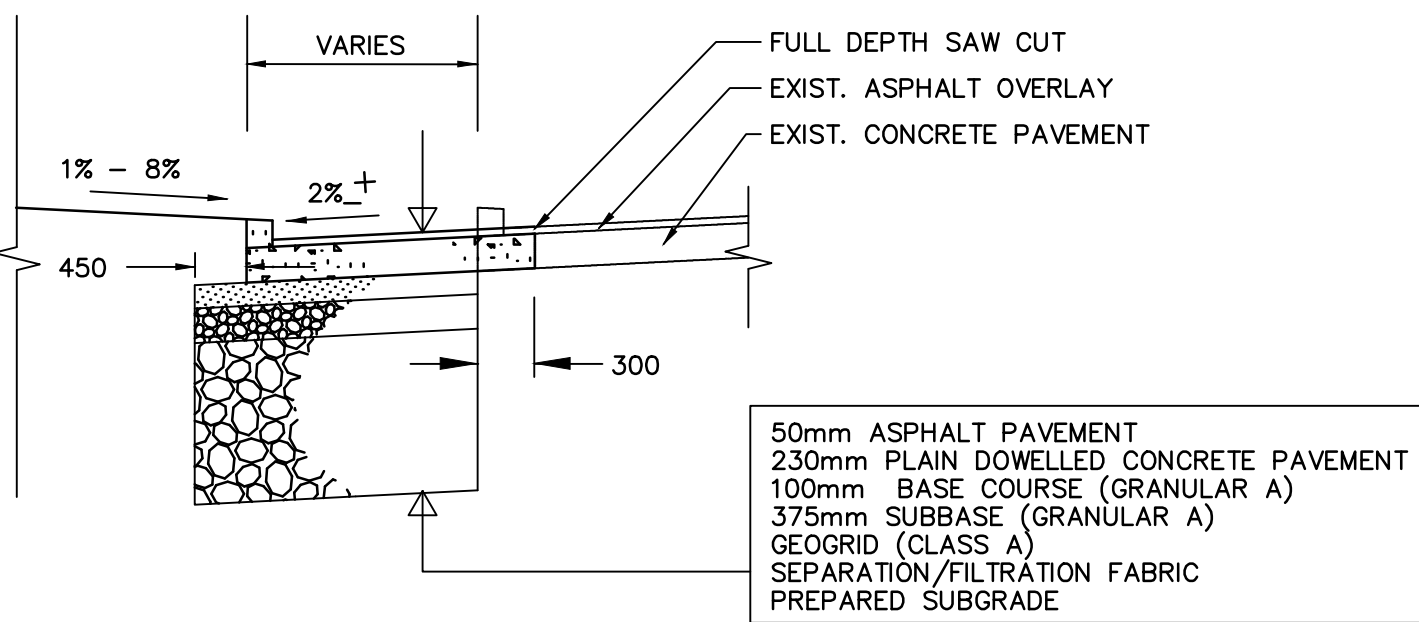
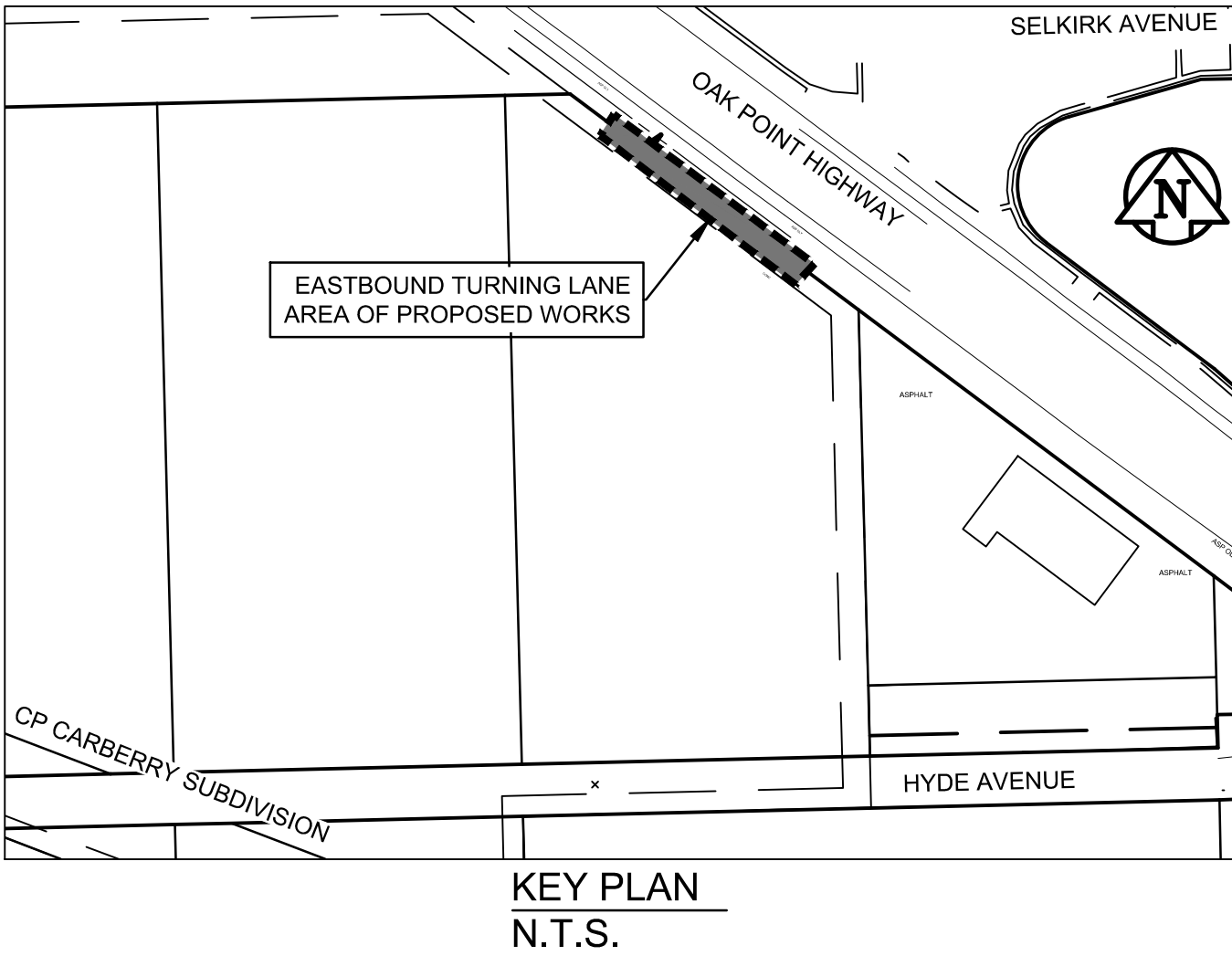
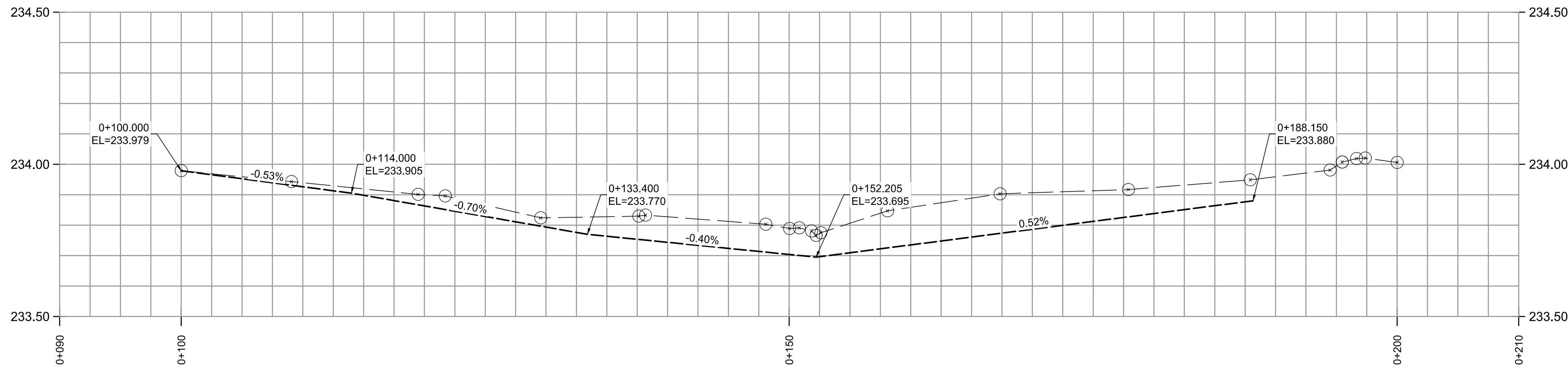
WINNIPEG NORTH GARAGE REPLACEMENT

CITY DRAWING NUMBER

SHEET 17 OF 22

TURNING LANE CONSTRUCTION
NORTHBOUND OAK POINT HIGHWAY
PLAN/PROFILE

CONSULTANT DRAWING NO.
00-C-017



LAYOUT UTM COORDINATES			
POINT I.D.	DESCRIPTION	NORTHING	EASTING
1	EC	5532518.122	628281.167
2	BC	5532509.139	628291.958
3	BC	5532495.972	628306.302
4	EC	5532486.745	628317.417
5	BC	5532462.567	628349.689

- REFERENCE NOTES:
- PAVEMENT DIMENSIONS ARE TO BACK OF CURB
 - BASELINE IS CENTRE LINE ROADWAY
 - PROPERTY LINES OBTAINED FROM CITY OF WINNIPEG L.B.I.S., AND NO SCALE FACTOR WAS APPLIED

- CONSTRUCTION NOTES:
- REMOVE EXISTING EXISTING BARRIER CURB
 - REMOVE EXISTING ASPHALT AND PLACE NEW ASPHALT PAVEMENT OVERLAY TYPE 1A (50mm AVERAGE)
 - REMOVE EXISTING PAVEMENT AND CONSTRUCT NEW 230mm PLAIN DOWELLED CONCRETE PAVEMENT c/w ASPHALT PAVEMENT OVERLAY TYPE 1A (50mm AVERAGE)
 - CONSTRUCT NEW BARRIER CURB (150mm HT. REVEAL, SEPARATE)
 - CONSTRUCT NEW MODIFIED BARRIER CURB (150mm HT. REVEAL, SEPARATE)
 - REMOVE EXISTING CATCHPIT AND ABANDON EXISTING LEAD
 - INSTALL NEW CURB AND GUTTER INLET c/w CATCHPIT (SD-023) AND CONNECT NEW 250mm LEAD TO EXISTING LEAD

**ENGINEERS
GEOSCIENTISTS
MANITOBA**

Certificate of Authorization
AECOM Canada ULC.
No. 4671 Date: 2025/02/19

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

150 mm W.M.	WATERMAIN	150 mm W.M.	HYDRO	HYDRO	PROFILE	LOCATION APPROVED
◇	HYDRANT	◆	M.T.S.	M.T.S.	—X—X—	UNDERGROUND STRUCTURES
⊙	VALVE	⊙	CONCRETE	CONCRETE	—□—	
300mm L.D.S.	LAND DRAINAGE SEWER	300mm L.D.S.	ASPHALT	ASPHALT	—○—	
250mm W.W.S.	WASTEWATER SEWER	250mm W.W.S.	PROPERTY LINE	PROPERTY LINE	—◇—	
○	MANHOLE	●	SURVEY BAR	SURVEY BAR	—○—	
□	CATCH BASIN	■	ELEVATION	ELEVATION	—○—	
▽	CATCH PIT	▼	TREE	TREE	—○—	
↑	TRAFFIC SIGNAL POLE	↑	SIDEWALK RAMP	SIDEWALK RAMP	—○—	
↑	STREET LIGHT	↑	CONCRETE SIDEWALK	CONCRETE SIDEWALK	—○—	
—	GAS	—	FENCE	FENCE	—○—	
EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PLAN	PROPOSED	EXISTING

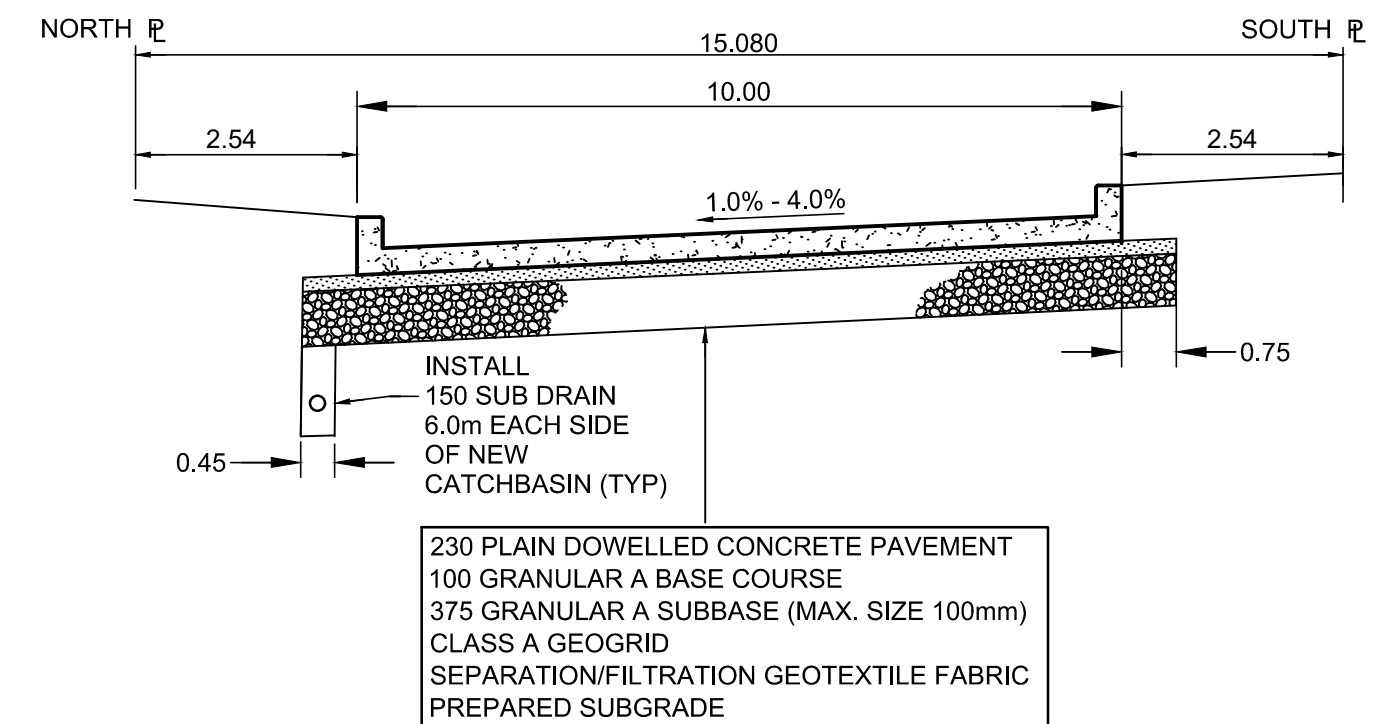
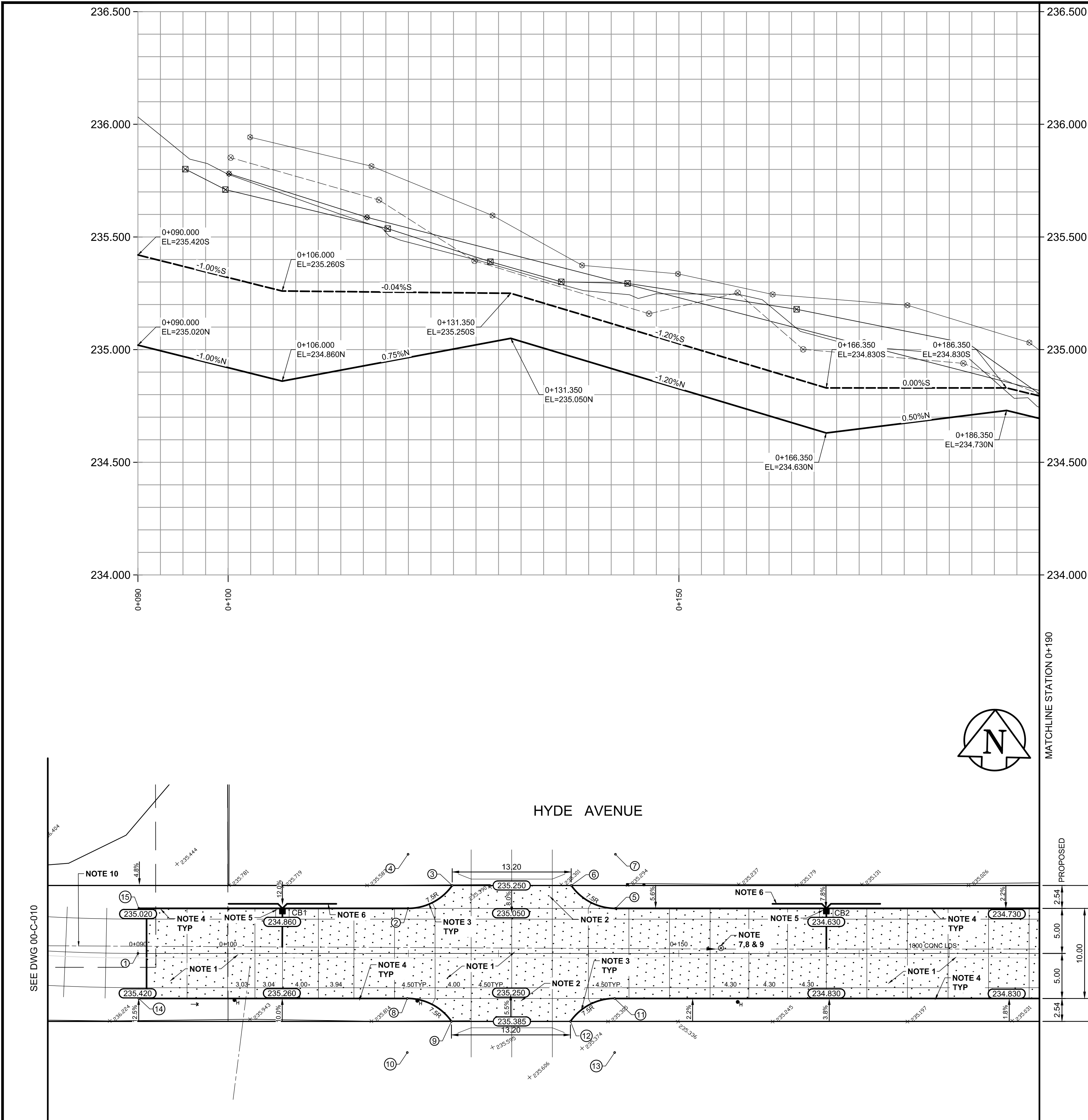
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B.M. ELEV.	654509 - Zone: 16, # 8 - N.W. Cor. King Edward St. & Eckhardt Ave., brass plug in 7.6 m Conc. pile, 2.3 m E. of W. L. King Edward St. & 3.4 m N. of N.L. Eckhardt Ave. ELEVATION: 233.552 HORIZONTAL: Northing: 5532923.179, Easting: 628680.953
DESIGNED BY	SS
CHECKED BY	BC, RC
DRAWN BY	SS
APPROVED BY	RC
HOR. SCALE:	1:250
VERTICAL:	1:10
RELEASED FOR CONSTRUCTION BY:	
A ISSUED FOR TENDER	2025/02/19 BC
NO. REVISIONS	DATE BY

AECOM	
DESIGNED BY	SS
CHECKED BY	BC, RC
DRAWN BY	SS
APPROVED BY	RC
HOR. SCALE:	1:250
VERTICAL:	1:10
RELEASED FOR CONSTRUCTION BY:	
A ISSUED FOR TENDER	2025/02/19 BC
NO. REVISIONS	DATE BY

ENGINEER'S SEAL
CONSULTANT DRAWING NO. 00-C-018

THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	
WINNIPEG NORTH GARAGE REPLACEMENT	CITY DRAWING NUMBER
SHEET 18 OF 22	
TURNING LANE CONSTRUCTION SOUTHBOUND OAK POINT HIGHWAY PLAN/PROFILE	



LAYOUT UTM COORDINATES			
POINT I.D.	DESCRIPTION	NORTHING	EASTING
1	BP	5532300.314	628374.356
2	BC	5532306.023	628404.188
3	EC	5532308.678	628409.028
4	CTR	5532312.021	628404.045
5	BC	5532306.568	628427.181
6	EC	5532308.991	628422.220
7	CTR	5532312.566	628427.039
8	BC	5532296.023	628404.346
9	EC	5532293.600	628409.307
10	CTR	5532290.025	628404.488
11	BC	5532296.569	628427.339
12	EC	5532293.913	628422.499
13	CTR	5532290.571	628427.482

- REFERENCE NOTES:
- PAVEMENT DIMENSIONS ARE TO BACK OF CURB
 - BASELINE IS CENTRE LINE ROADWAY
 - PROPERTY LINES OBTAINED FROM CITY OF WINNIPEG L.B.I.S., AND NO SCALE FACTOR WAS APPLIED
- CONSTRUCTION NOTES:
- REMOVE EXISTING PAVEMENT AND CONSTRUCT NEW 230mm PLAIN DOWELLED CONCRETE PAVEMENT
 - REMOVE EXISTING PAVEMENT AND CONSTRUCT NEW 200mm REINFORCED CONCRETE PAVEMENT
 - CONSTRUCT NEW MODIFIED BARRIER CURB (180mm HT., INTEGRAL)
 - CONSTRUCT NEW BARRIER CURB (180mm HT., INTEGRAL)
 - INSTALL NEW CURB AND GUTTER INLET c/w 1800mm CATCH BASIN (SD-024) AND CONNECT 250mm PVC SEWER SERVICE TO EXISTING 1800mm CONCRETE LAND DRAINAGE SEWER
 - INSTALL NEW 150mm SUBDRAIN 6.0m ON EACH SIDE OF CATCH BASIN
 - REMOVE EXISTING FRAME AND COVER AND INSTALL NEW FRAME AND SOLID COVER (AP-006/AP-007)
 - ADJUST EXISTING MANHOLE/CATCH BASIN TO GRADE
 - INSTALL NEW CAST IRON RISER RING
 - REFER TO DRAWINGS C-008 AND C-009 FOR DETAILS

CATCH BASIN TABLE								
ITEM	RIM ELEV.	Sta	INVERT				CONNECTION	LEAD
			E-150	W-150	N-250	S-250		
CB1	234.860	0+106.00	233.860	233.860		233.410	233.330±	LDS
CB2	234.630	0+166.35	233.630	233.630		233.180	233.100±	LDS

**ENGINEERS
GEOSCIENTISTS
MANITOBA**
Certificate of Authorization
AECOM Canada ULC.
No. 4671 Date: 2025/02/19

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

150 mm W.M.	WATERMAIN	150 mm W.M.	HYDRO	150 mm W.M.	HYDRO	150 mm W.M.	HYDRO	150 mm W.M.	HYDRO
⊕	HYDRANT	⊕	M.T.S.	⊕	M.T.S.	⊕	M.T.S.	⊕	M.T.S.
⊕	VALVE	⊕	CONCRETE	⊕	CONCRETE	⊕	CONCRETE	⊕	CONCRETE
⊕	LAND DRAINAGE SEWER	⊕	ASPHALT	⊕	ASPHALT	⊕	ASPHALT	⊕	ASPHALT
⊕	WASTEWATER SEWER	⊕	PROPERTY LINE	⊕	PROPERTY LINE	⊕	PROPERTY LINE	⊕	PROPERTY LINE
⊕	MANHOLE	⊕	SURVEY BAR	⊕	SURVEY BAR	⊕	SURVEY BAR	⊕	SURVEY BAR
⊕	CATCH BASIN	⊕	ELEVATION	⊕	ELEVATION	⊕	ELEVATION	⊕	ELEVATION
⊕	CATCH PIT	⊕	TREE	⊕	TREE	⊕	TREE	⊕	TREE
⊕	TRAFFIC SIGNAL POLE	⊕	SIDEWALK RAMP	⊕	SIDEWALK RAMP	⊕	SIDEWALK RAMP	⊕	SIDEWALK RAMP
⊕	STREET LIGHT	⊕	CONCRETE SIDEWALK	⊕	CONCRETE SIDEWALK	⊕	CONCRETE SIDEWALK	⊕	CONCRETE SIDEWALK
⊕	GAS	⊕	FENCE	⊕	FENCE	⊕	FENCE	⊕	FENCE
EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PROFILE	PROPOSED	LEGEND - PROFILE

**LOCATION APPROVED
UNDERGROUND STRUCTURES**

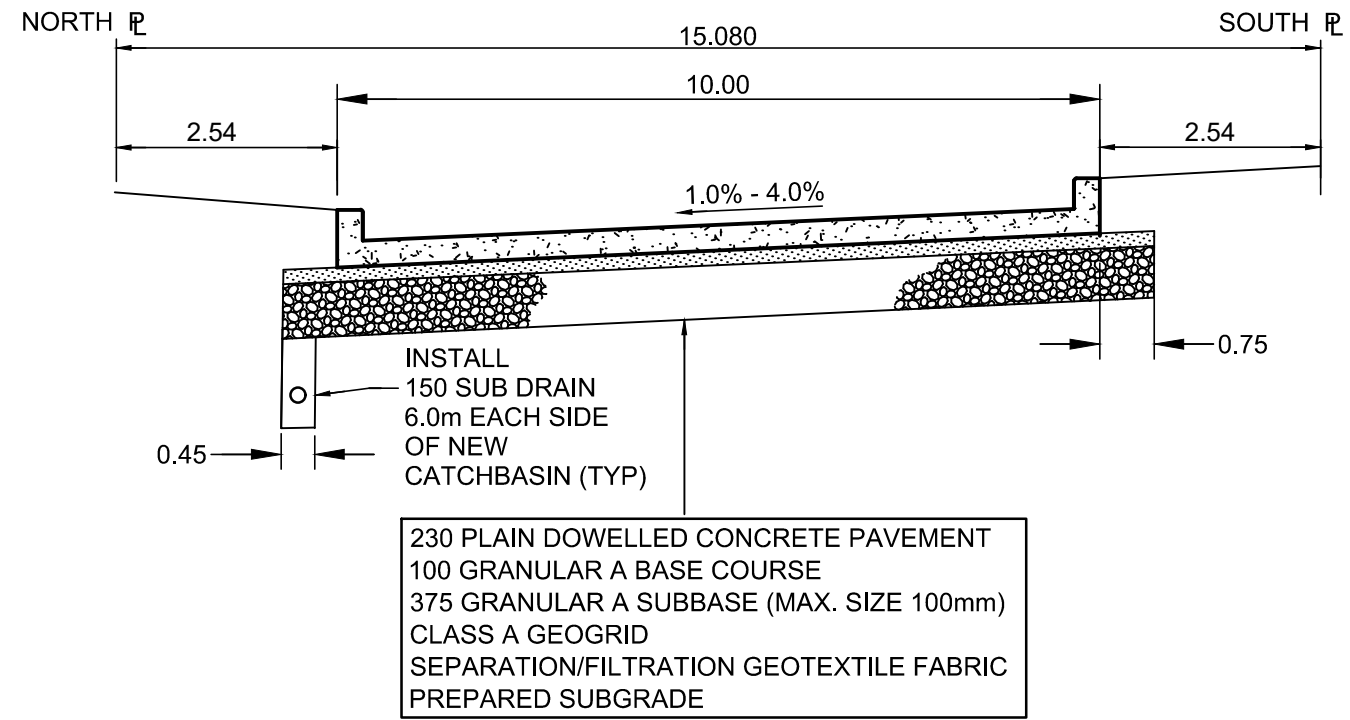
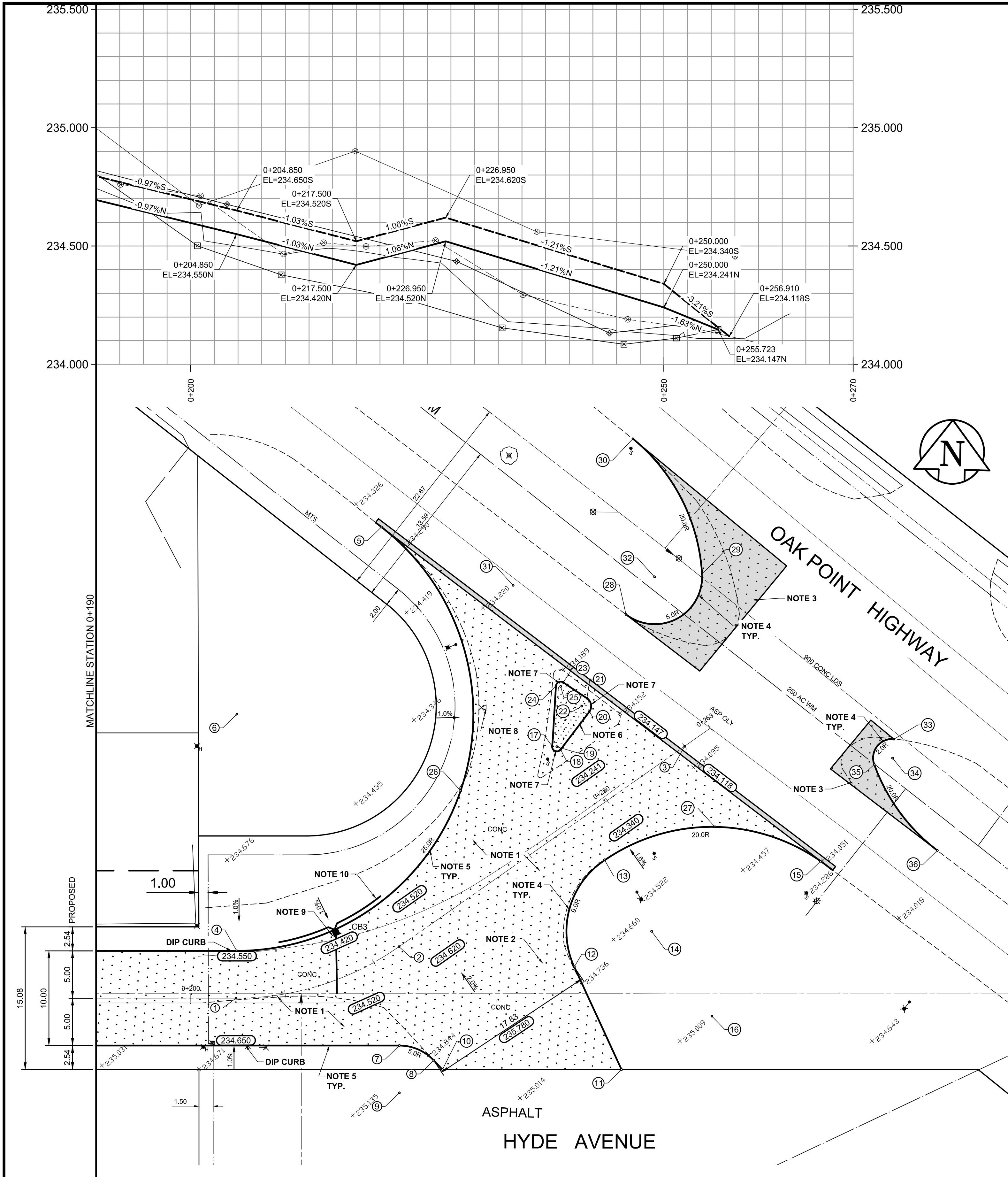
SUPV. U/G STRUCTURES COMMITTEE DATE

NOTE:
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B.M. ELEV.	654509 - Zone: 16, # 8 - N.W. Cor. King Edward St. & Eckhardt Ave., brass plug in 7.6 m Conc. pile, 2.3 m E. of W. L. King Edward St. & 3.4 m N. of N.L. Eckhardt Ave. ELEVATION: 233.922 HORIZONTAL: Northing: 5532823.179, Easting: 628680.953
DESIGNED BY	SS
CHECKED BY	BC, RC
DRAWN BY	SS
APPROVED BY	RC
HOR. SCALE:	1:250
VERTICAL:	1:10
RELEASED FOR CONSTRUCTION BY:	
A ISSUED FOR TENDER	2025/02/19 BC
NO. REVISIONS	DATE BY

AECOM			
DESIGNED BY	SS	CHECKED BY	BC, RC
DRAWN BY	SS	APPROVED BY	RC
HOR. SCALE:	1:250	RELEASED FOR CONSTRUCTION BY:	
VERTICAL:	1:10		
A ISSUED FOR TENDER	2025/02/19 BC		
NO. REVISIONS	DATE BY		

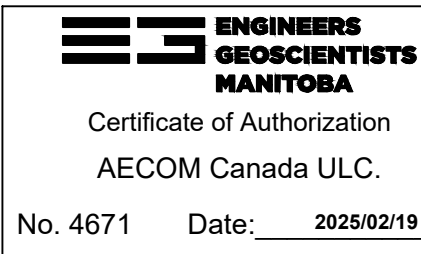
ENGINEER'S SEAL		THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION	
CONSULTANT DRAWING NO. 00-C-019		WINNIPEG NORTH GARAGE REPLACEMENT	CITY DRAWING NUMBER
		CONCRETE PAVEMENT CONSTRUCTION HYDE AVENUE PLAN/PROFILE	SHEET 19 OF 22



LAYOUT UTM COORDINATES			
POINT I.D.	DESCRIPTION	NORTHING	EASTING
1	BP-EC	5532303.035	628489.103
2	BP-EC	5532308.884	628506.200
3	BP-PT	5532330.768	628535.868
4	BC	5532308.036	628489.068
5	EC	5532353.160	628503.299
6	CTR	5532333.027	628488.481
7	BC	5532298.446	628506.484
8	EC	5532296.966	628510.158
9	CTR	5532293.448	628506.603
10	PT	5532296.014	628511.098
11	PT	5532296.463	628530.023
12	EC	5532307.184	628524.768
13	BC	5532318.576	628527.690
14	CTR	5532311.145	628532.850
15	EC	5532318.960	628550.513
16	CTR	5532302.331	628539.431
17	BC	5532330.443	628521.875
18	EC	5532330.112	628522.779
19	CTR	5532330.405	628522.373
20	BC	5532334.158	628525.707
21	EC	5532335.588	628525.433
22	CTR	5532334.744	628524.897
23	BC	5532337.200	628522.894
24	EC	5532336.795	628522.126
25	CTR	5532336.778	628522.626
26	MID	5532325.513	628512.317
27	MID	5532322.336	628539.278
28	BC	5532344.539	628529.346
29	EC	5532348.993	628537.275
30	BC	5532363.110	628529.637
31	CTR	5532347.334	628517.344
32	CTR	5532348.585	628532.272
33	BC	5532332.041	628557.965
34	CTR	5532330.040	628557.865
35	EC	5532329.322	628555.947
36	BC	5532320.395	628562.828
37	CTR	5532336.573	628574.587

- REFERENCE NOTES:
- A. PAVEMENT DIMENSIONS ARE TO BACK OF CURB
 - B. BASELINE IS CENTRE LINE ROADWAY
 - C. PROPERTY LINES OBTAINED FROM CITY OF WINNIPEG L.B.I.S., AND NO SCALE FACTOR WAS APPLIED
- CONSTRUCTION NOTES:
1. REMOVE EXISTING PAVEMENT AND CONSTRUCT NEW 230mm PLAIN DOWELLED CONCRETE PAVEMENT
 2. REMOVE EXISTING PAVEMENT AND CONSTRUCT NEW 200mm REINFORCED CONCRETE PAVEMENT
 3. REMOVE EXISTING PAVEMENT AND CONSTRUCT NEW 200mm REINFORCED CONCRETE PAVEMENT c/w TYPE 1A ASPHALT OVERLAY (50mm AVERAGE THICKNESS)
 4. CONSTRUCT NEW MODIFIED BARRIER CURB (180mm HT., INTEGRAL)
 5. CONSTRUCT NEW BARRIER CURB (180mm HT., INTEGRAL)
 6. CONSTRUCT NEW MONOLITHIC CONCRETE MEDIAN SLAB (180mm HT.)
 7. CONSTRUCT NEW MONOLITHIC CONCRETE BULLNOSE (180mm HT.)
 8. REMOVE EXISTING CATCHPIT AND ABANDON EXISTING LEAD
 9. INSTALL NEW CURB AND GUTTER INLET c/w 1800mm CATCH BASIN (SD-024) AND CONNECT 250mm PVC SEWER SERVICE TO EXISTING 1800mm CONCRETE LAND DRAINAGE SEWER
 10. INSTALL NEW 150mm SUBDRAIN 6.0m ON EACH SIDE OF CATCH BASIN

CATCH BASIN TABLE								
ITEM	RIM ELEV.	Sta	INVERT				CONNECTION	LEAD
			E-150	W-150	N-250	S-250		
CB3	234.420	0+217.50	233.420	233.420		232.739	230.200±	LDS 6.8m



METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PROFILE	PROPOSED
150 mm W.M.	WATERMAIN	150 mm W.M.	HYDRO	HYDRO	HYDRO	C PROFILE	C PROFILE	C PROFILE
300mm L.D.S.	LAND DRAINAGE SEWER	300mm L.D.S.	CONCRETE	CONCRETE	CONCRETE	N/W GUTTER	N/W GUTTER	N/W GUTTER
250mm W.W.S.	WASTEWATER SEWER	250mm W.W.S.	ASPHALT	ASPHALT	ASPHALT	S/E GUTTER	S/E GUTTER	S/E GUTTER
MANHOLE	MANHOLE	MANHOLE	PROPERTY LINE	PROPERTY LINE	PROPERTY LINE	N/W PROPERTY LINE	N/W PROPERTY LINE	N/W PROPERTY LINE
CATCH BASIN	CATCH BASIN	CATCH BASIN	SURVEY BAR	SURVEY BAR	SURVEY BAR	S/E PROPERTY LINE	S/E PROPERTY LINE	S/E PROPERTY LINE
CATCH PIT	CATCH PIT	CATCH PIT	ELEVATION	ELEVATION	ELEVATION			
TRAFFIC SIGNAL POLE	TRAFFIC SIGNAL POLE	TRAFFIC SIGNAL POLE	TREE	TREE	TREE			
STREET LIGHT	STREET LIGHT	STREET LIGHT	SIDEWALK RAMP	SIDEWALK RAMP	SIDEWALK RAMP			
GAS	GAS	GAS	CONCRETE SIDEWALK	CONCRETE SIDEWALK	CONCRETE SIDEWALK			
			FENCE	FENCE	FENCE			

LOCATION APPROVED
UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES
COMMITTEE

NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

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AECOM

DESIGNED BY	SS	CHECKED BY	BC, RC
DRAWN BY	SS	APPROVED BY	RC
HOR. SCALE:	1:250	RELEASED FOR CONSTRUCTION BY:	
VERTICAL:	1:10		
A ISSUED FOR TENDER	2025/02/19	BC	
NO. REVISIONS	DATE	BY	DATE
			2025/01/28

ENGINEER'S SEAL

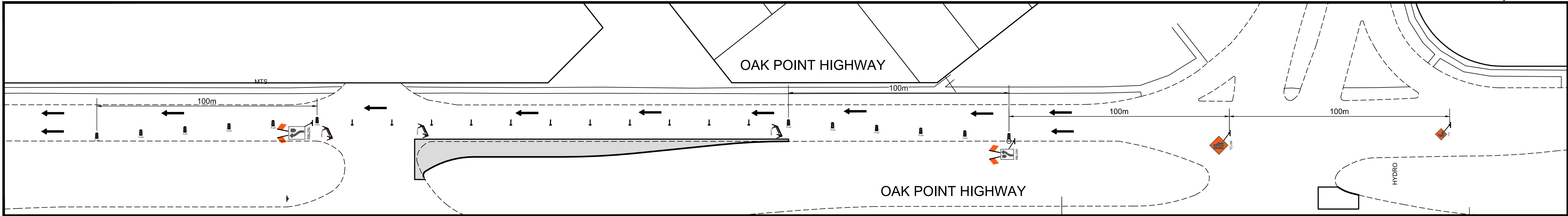
THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

WINNIPEG NORTH GARAGE REPLACEMENT
HYDE AVENUE

CITY DRAWING NUMBER
SHEET 20 OF 22

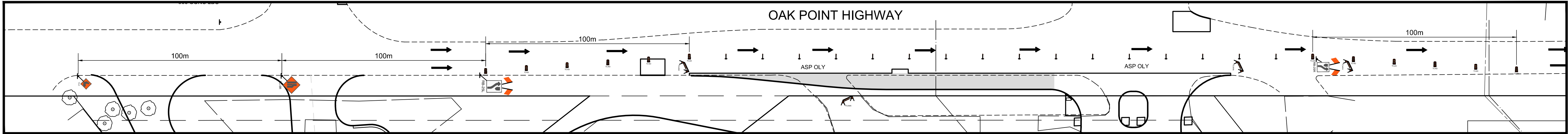
CONCRETE PAVEMENT CONSTRUCTION
HYDE AVENUE
PLAN/PROFILE

CONSULTANT DRAWING NO.
00-C-020



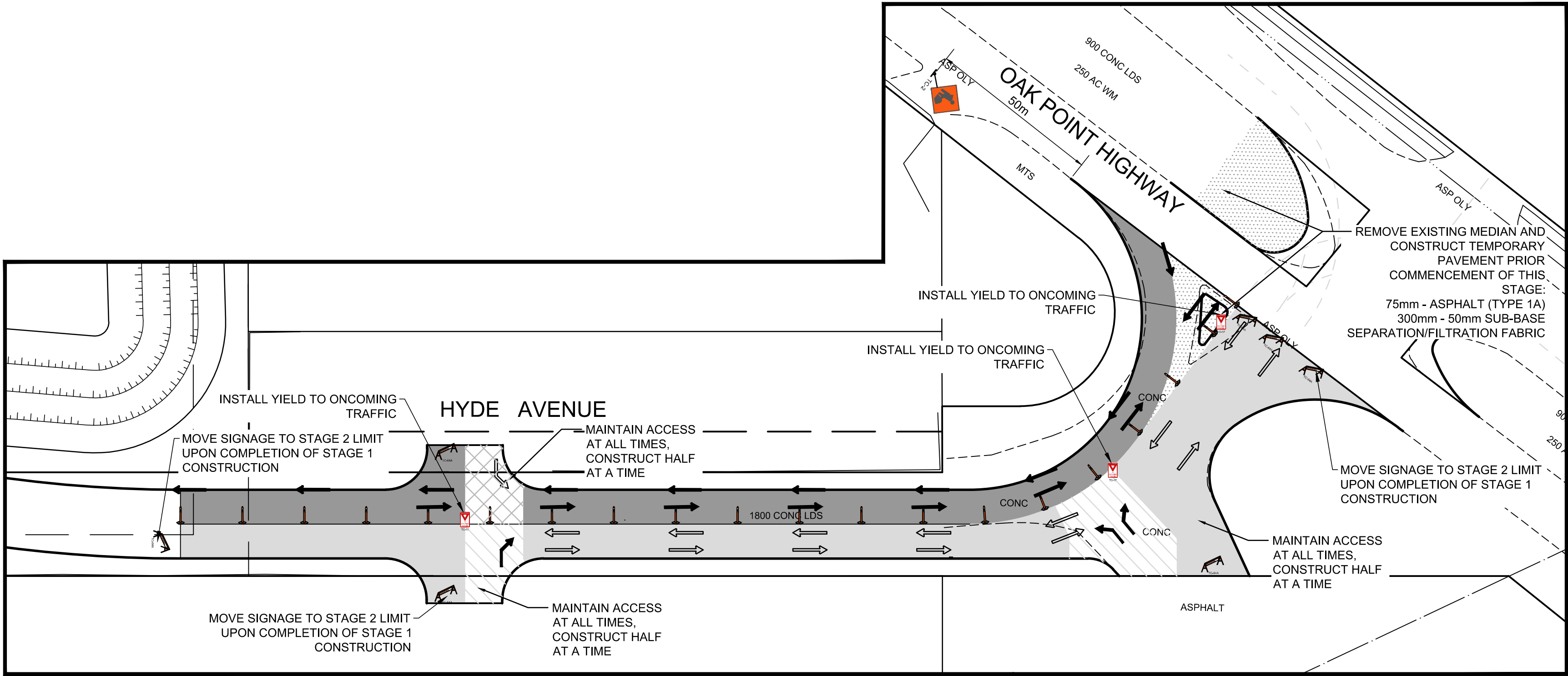
OAK POINT HIGHWAY - PLAN VIEW

Scale 1:500



OAK POINT HIGHWAY - PLAN VIEW

Scale 1:500



HYDE AVENUE - PLAN VIEW

Scale 1:500

LEGEND

- STAGE 1 WORK AREA
- STAGE 1A WORK AREA
- STAGE 2 WORK AREA
- STAGE 2A WORK AREA
- STAGE 2B WORK AREA
- STAGE 1 TRAFFIC
- STAGE 2 TRAFFIC

- NOTES:
- ALL TEMPORARY SIGNAGE AND TRAFFIC CONTROL TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF TEMPORARY TRAFFIC CONTROL ON CITY STREETS.
 - CONTRACTOR TO MAINTAIN VEHICLE ACCESS TO ALL SIDE STREETS, PRIVATE APPROACHES AT ALL TIMES UNLESS NOTED BY THE CONTRACT ADMINISTRATOR. ANY DISRUPTION TO BE APPROVED BY THE CONTRACT ADMINISTRATOR AND CONTRACTOR TO ADVISE OWNER.
 - PROPERLY EQUIPPED FLAG PERSONS ARE REQUIRED WHEN MOVING ANY CONSTRUCTION VEHICLES INTO OR OUT OF TRAFFIC.
 - CONTRACTOR TO INSTALL AND MAINTAIN ALL REQUIRED SIGNAGE, CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL SIGNAGE AND REGULATORY SIGNAGE, WHICH INCLUDES POSTING PARKING RESTRICTIONS FOR CONSTRUCTION ACCESS.
 - TYPICAL SPACING BETWEEN POLYPOSTS IS 9.0m.

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE DATE

NOTE:
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0	ISSUED FOR TENDER	2025/02/19	BC
NO.	REVISIONS	DATE	BY

AECOM			
DESIGNED BY	SS	CHECKED BY	BC
DRAWN BY	SS	APPROVED BY	RC
HOR. SCALE:	1:500	RELEASED FOR CONSTRUCTION BY:	
VERTICAL:	N/A		
DATE	2025/01/28	DATE	

ENGINEER'S SEAL

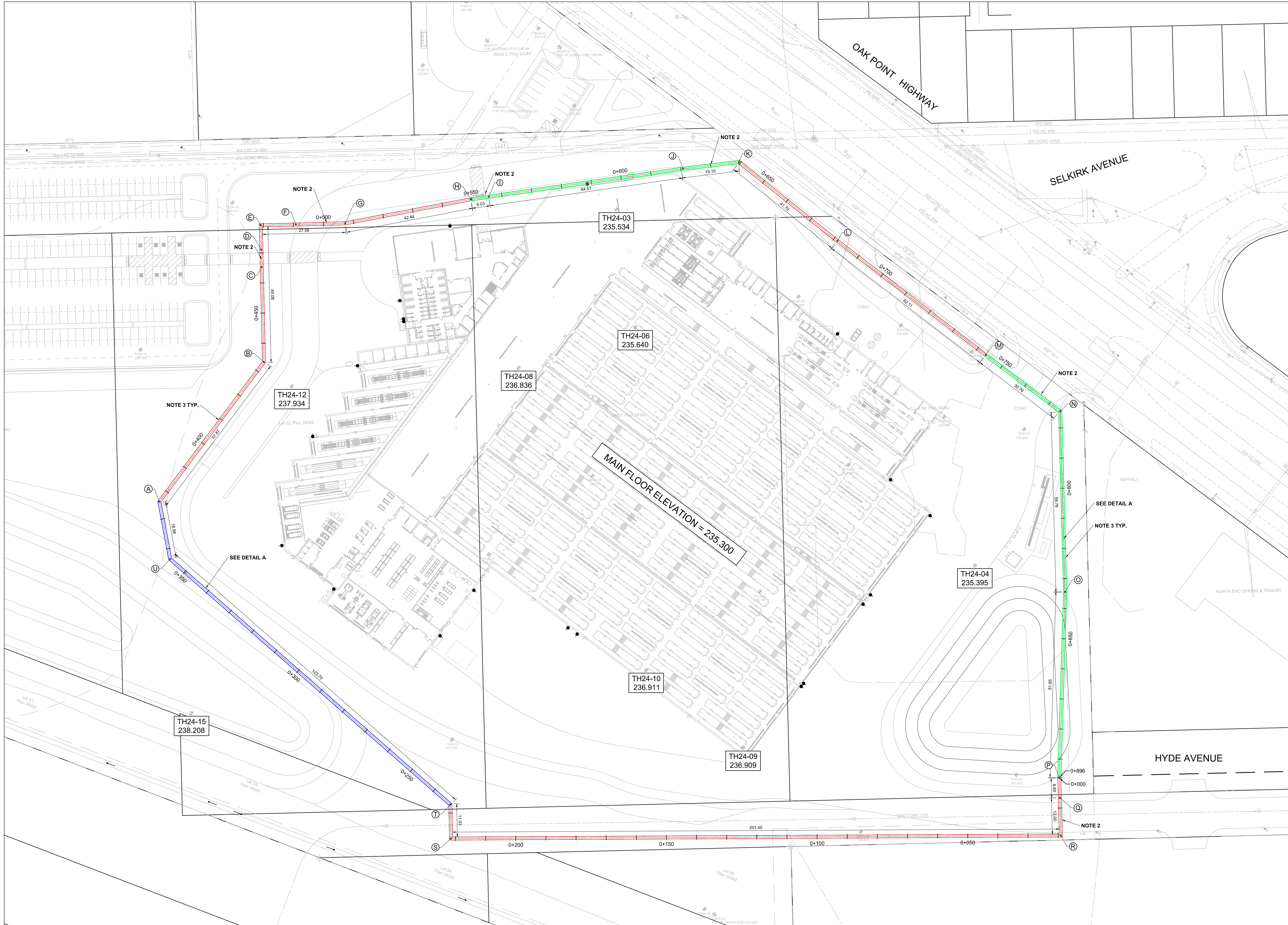
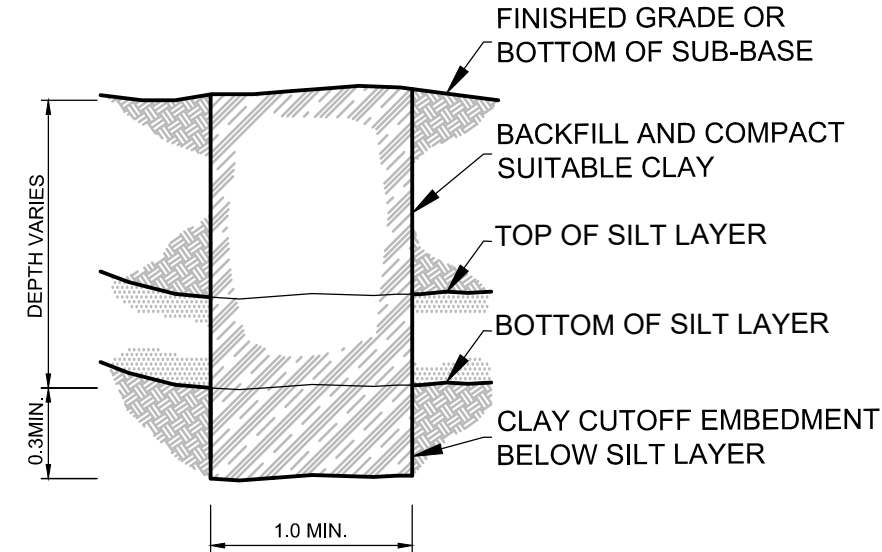
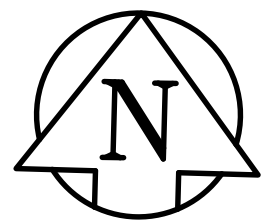
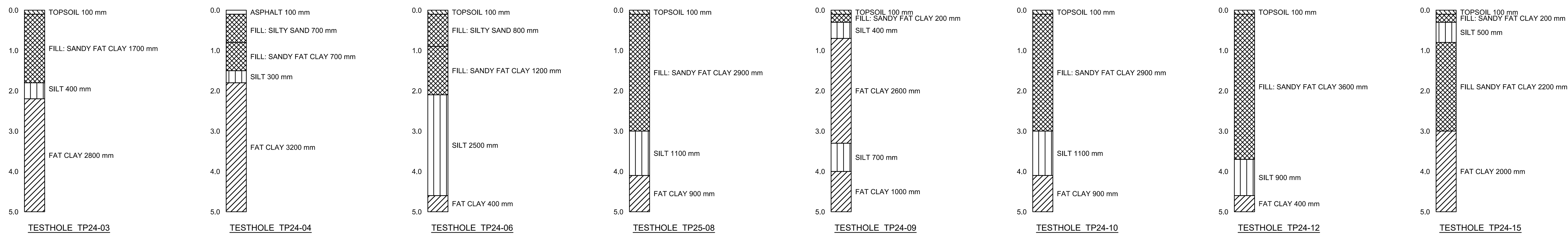
CONSULTANT DRAWING NO. 00-C-021

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

WINNIPEG NORTH GARAGE REPLACEMENT	CITY DRAWING NUMBER
OAK POINT HIGHWAY TURNING LANES AND HYDE AVENUE STAGING	SHEET 21 OF 22

ENGINEERS
GEOLOGISTS
MANITOBA
Certificate of Authorization
AECOM Canada ULC.
No. 4671 Date: 2025/02/19

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

**PLAN**
Scale 1:500**A** TYPICAL CLAY CUTOFF TRENCH DETAIL
DETAIL N.T.S.

GEODETTIC BENCHMARK DESCRIPTION	
854509 - Zone: 16, # 8 - N.W. Cor. King Edward St. & Eckhardt Ave., brass plug in 7.6 m Conc. pile, 2.3 m E. of W. King Edward St. & 3.4 m N. of N.L. Eckhardt Ave.	
NORTHING: 5532623.179	EASTING: 628680.353
ELEVATION: 233.552	
NOTE: ALL COORDINATES ARE UTM ZONE 14N, datum NAD83(CAD), geoid HT2_0.	

MATERIAL LEGEND	
	EARTH
	CLAY
	SILT

SILT DEPTH LEGEND	
	0.0m - 1.0m
	1.0m - 2.0m
	2.0m - 3.0m
	3.0m - 4.0m
	4.0m - 5.0m

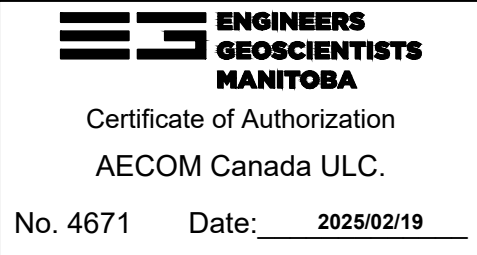
LAYOUT UTM COORDINATES			
POINT I.D.	DESCRIPTION	NORTHING	EASTING
A	PI	5532405.099	628074.056
B	PI	5532451.461	628108.772
C	PI	5532483.029	628108.036
D	PI	5532488.727	628107.303
E	PI	5532486.954	628107.713
F	PI	5532489.076	628116.880
G	PI	5532487.588	628135.748
H	PI	5532505.472	628117.409
I	PI	5532596.330	628163.387
J	PI	5532515.618	628247.843
K	PI	5532517.851	628266.413
L	PI	5532491.647	628299.104
M	PI	5532483.782	628346.328
N	PI	5532435.099	628373.066
O	PI	5532375.121	628374.675
P	PI	5532313.361	628372.732
Q	PI	5532396.784	628372.969
R	PI	5532294.291	628373.345
S	PI	5532283.274	628170.846
T	PI	5532304.572	628170.640
U	PI	5532386.063	628077.638

REFERENCE NOTES:

- ALL DIMENSIONS ARE IN METERS UNLESS SPECIFIED OTHERWISE
- REFER TO TESTHOLE LOGS AT BOTTOM OF DRAWING AND COLOUR CODED SILT DEPTH TABLE, FOR ESTIMATED REQUIRED DEPTH OF EXCAVATION IN EACH CUTOFF WALL SEGMENT
- REFER TO DRAWING 00-C-001 FOR EXISTING TOPOGRAPHIC SURVEY
- REFER TO DRAWING 00-C-002 FOR REMOVALS
- REFER TO DRAWING 00-C-003 AND 00-C-004 FOR PROPOSED HORIZONTAL GEOMETRY
- REFER TO DRAWING 00-C-005 AND 00-C-006 FOR PROPOSED CUT/FILL CONTOURS
- REFER TO DRAWING 00-C-007 AND 00-C-008 FOR PROPOSED PAVEMENT ELEVATIONS
- REFER TO DRAWING 00-C-009 AND 00-C-010 FOR PROPOSED PAVING AND GRADING
- REFER TO DRAWING 00-C-011 AND 00-C-012 FOR PROPOSED PAVEMENT JOINTS
- REFER TO DRAWING 00-C-013 FOR EROSION CONTROL MEASURES
- REFER TO DRAWING 00-C-014, 00-C-015 AND 00-C-016 FOR PROPOSED SECTIONS

CONSTRUCTION NOTES:

- EXCAVATE CUTOFF WALL TRENCH TO A MINIMUM DEPTH OF 0.3m BELOW SILT LAYER (SEE DETAIL A)
- STOCKPILE SUITABLE CLAY MATERIAL ON SITE
- BACKFILL CUTOFF WALL WITH LOW PERMEABILITY CLAY FILL, TO PREVENT WATER FROM THE PERCHED WATER TABLE WITHIN SILT LAYER FROM MIGRATING BENEATH THE STRUCTURE
- PLACE CLAY FILL IN MAXIMUM 150mm LIFTS AND COMPACT TO 98% SPMD UNDERNEATH PROPOSED PAVEMENT AREAS, (SEGMENTS: C-D, F-G, H-I, J-K, M-N, Q-R)
- PLACE CLAY FILL IN MAXIMUM 300mm LIFTS AND PLATE COMPACT UNDERNEATH PROPOSED LANDSCAPE AREAS.

Certificate of Authorization
AECOM Canada ULC
No. 4671 Date: 2025/02/19**METRIC**WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES**REGISTRATION****LEGEND:**

- EXISTING PROPERTY LINE
- EXISTING CURB
- EXISTING CONCRETE WALK
- EXISTING LANE LINE
- EXISTING ROAD EDGE
- EXISTING MANHOLE
- EXISTING CATCHBASIN MANHOLE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING SIGN
- EXISTING SIGNALIZED TRAFFIC POST
- EXISTING TRAFFIC SIGNAL PIT
- EXISTING CATCH PIT
- LIGHT STANDARD
- HYDRO POLE
- MTS PEDESTAL
- HYDRO POLE ANCHOR
- IRON BAR
- MTS MANHOLE
- HYDRO PEDESTAL
- EXISTING WATERMAIN
- EXISTING WASTEWATER SEWER
- EXISTING LAND DRAINAGE SEWER
- EXISTING GAS LINE
- EXISTING MTS LINE
- EXISTING HYDRO LINE
- BOREHOLE
- MONITORING WELL
- TREE
- ELEVATION
- MAJOR CONTOUR LINE
- MINOR CONTOUR LINE
- ROOF DRAIN

ISSUE/REVISION

NO.	DATE	DESCRIPTION

PROJECT NUMBER

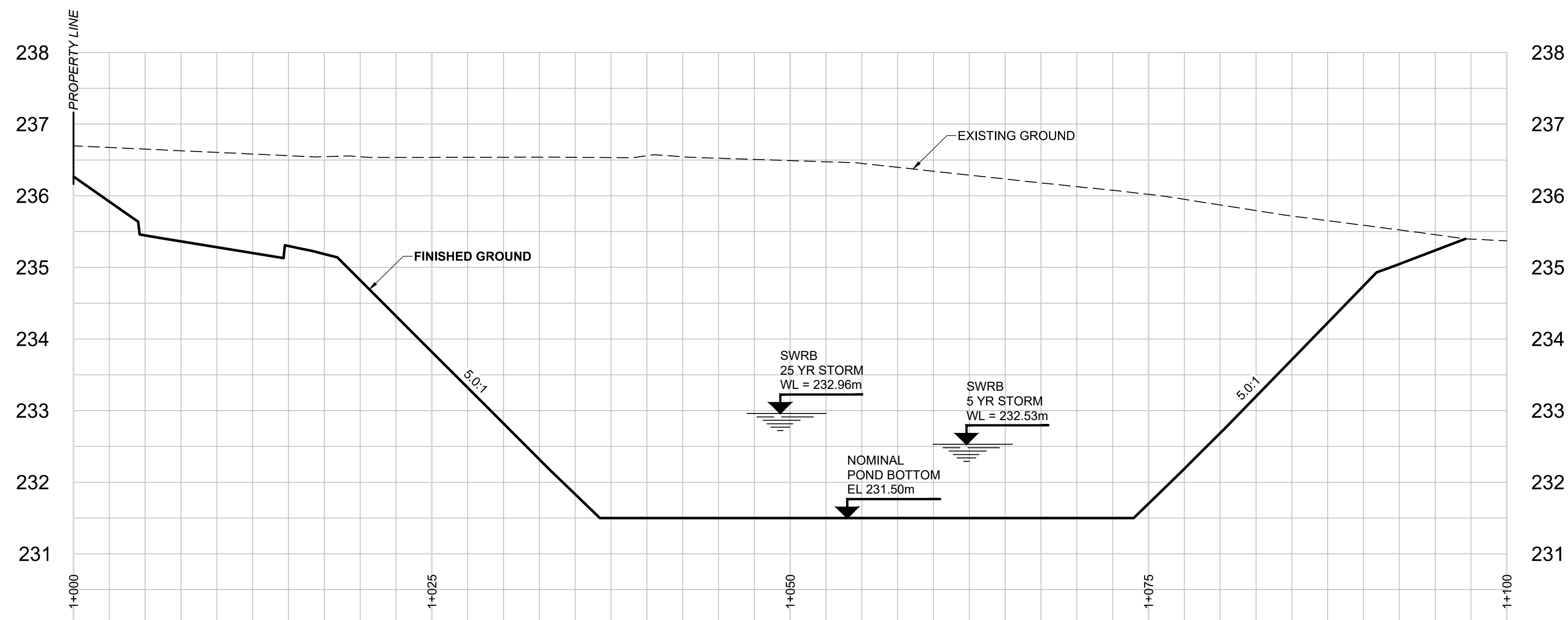
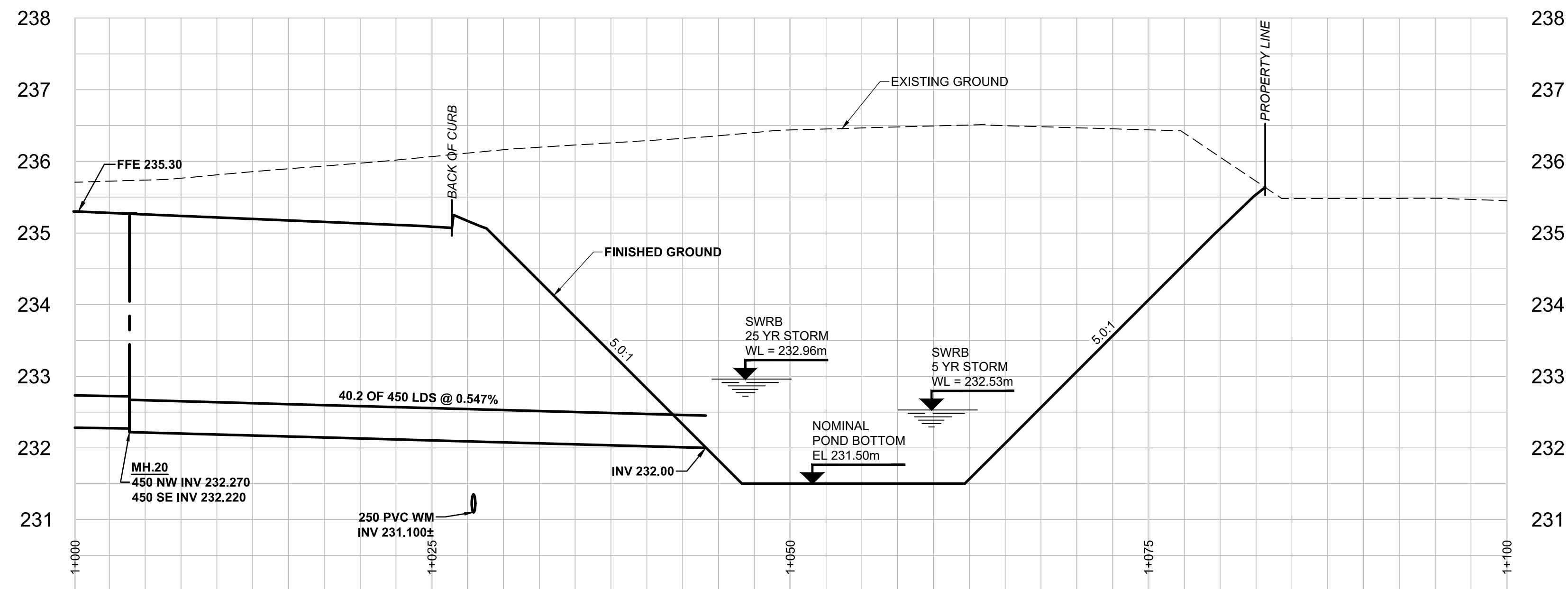
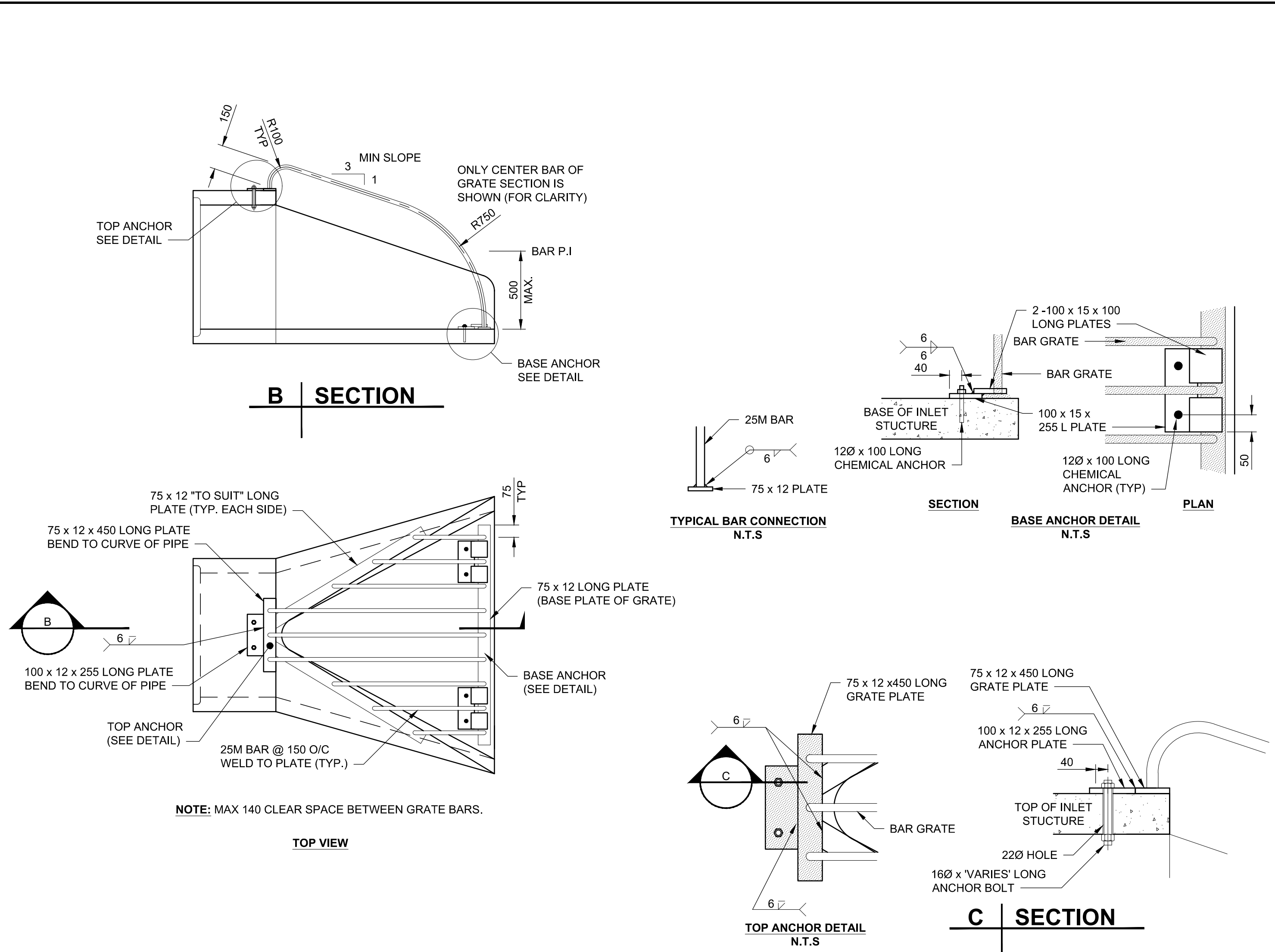
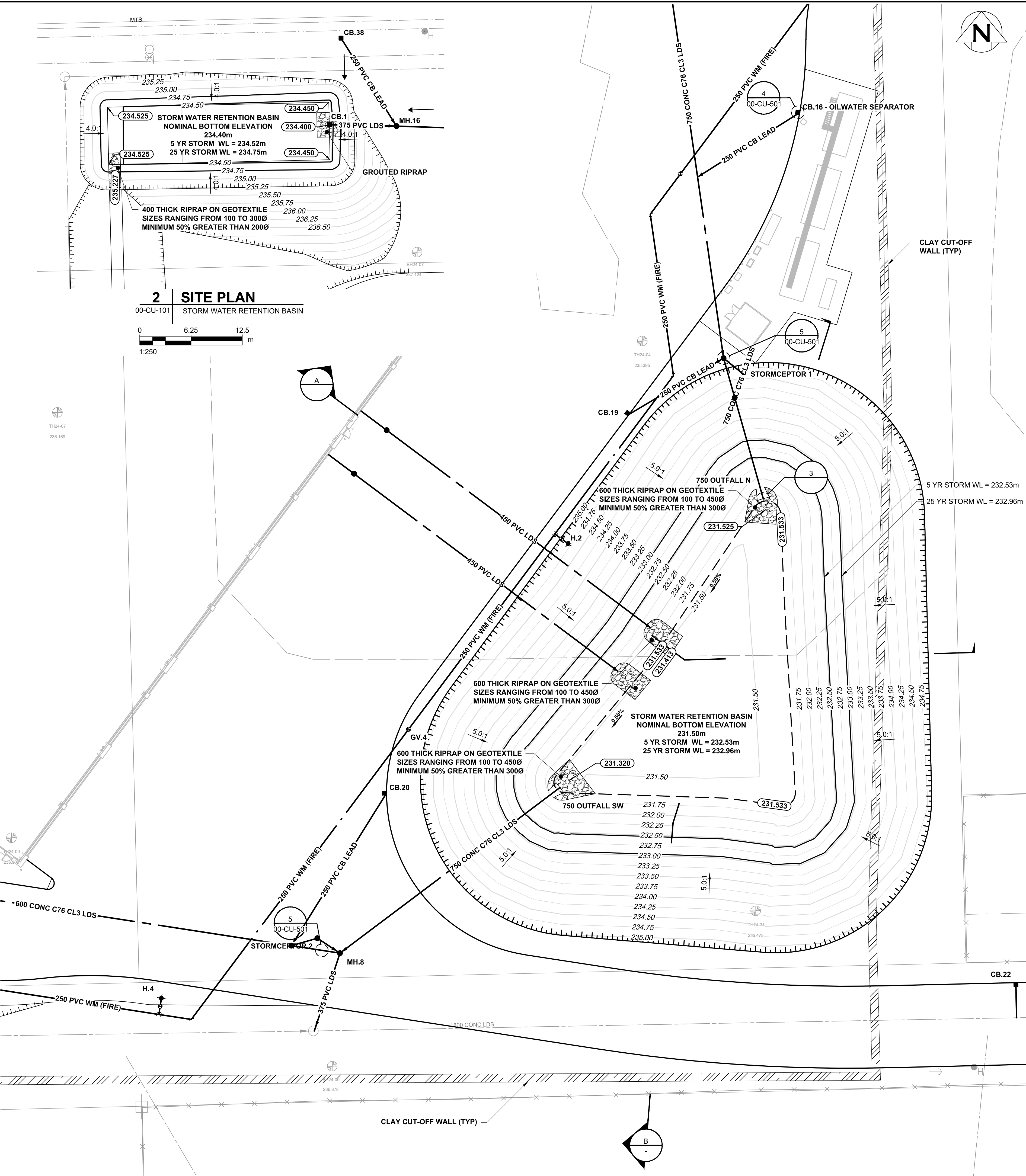
60721079

SHEET TITLE

CLAY CUTOFF WALL

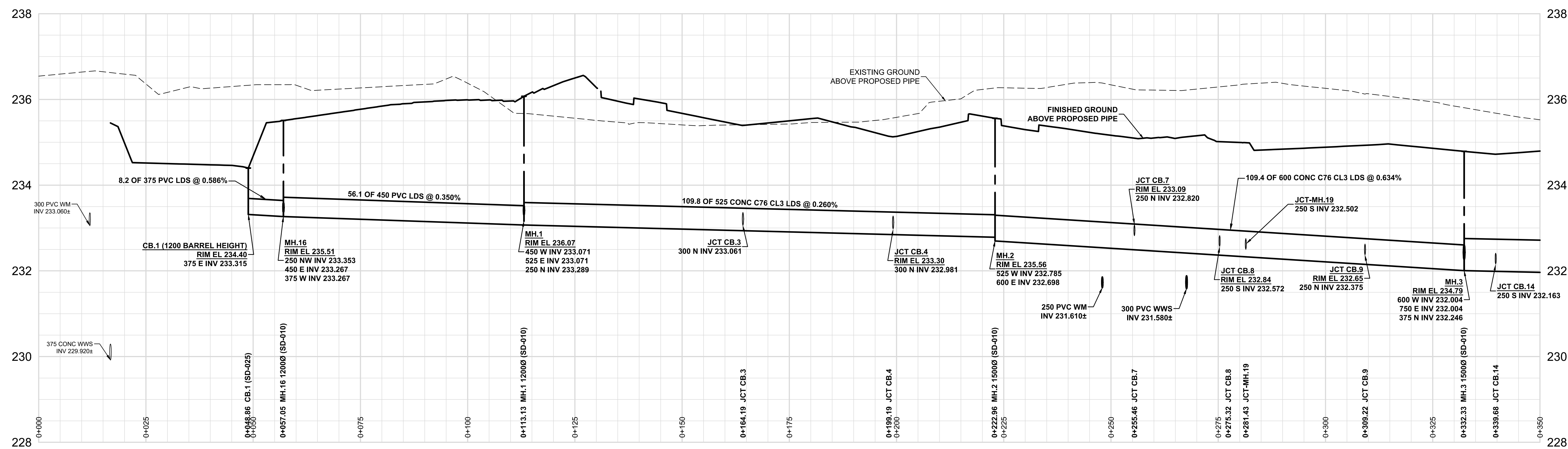
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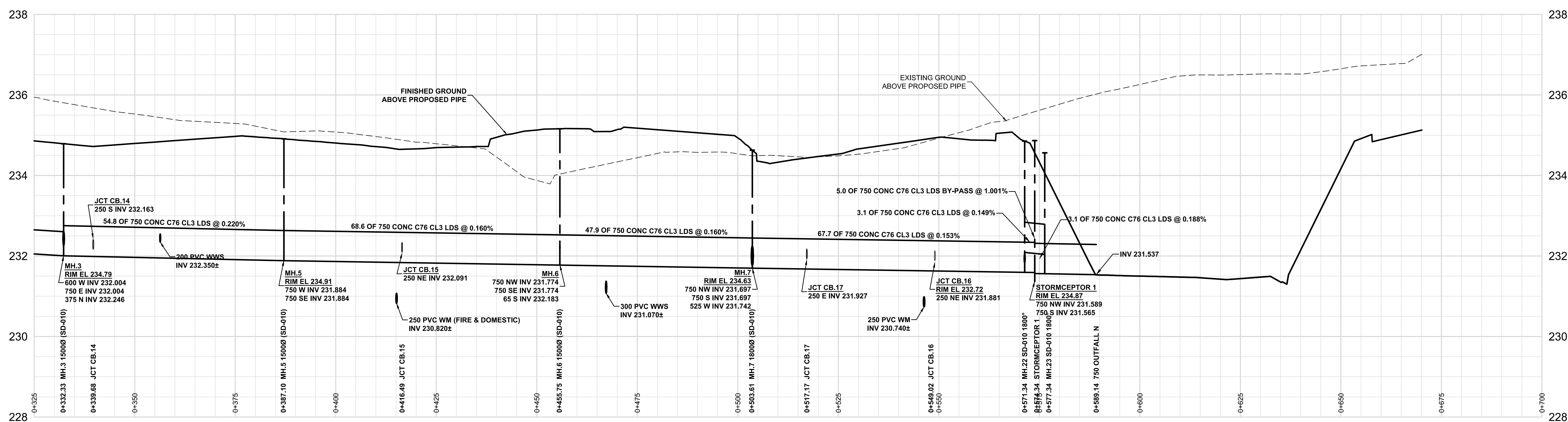


- EXISTING PROPERTY LINE
- EXISTING CURB
- EXISTING CONCRETE WALK
- EXISTING LANE LINE
- EXISTING ROAD EDGE
- EXISTING MANHOLE
- EXISTING CATCHBASIN MANHOLE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING SIGN
- EXISTING SIGNALIZED TRAFFIC POST
- EXISTING TRAFFIC SIGNAL PIT
- EXISTING CATCH PIT
- EXISTING LIGHT STANDARD
- HYDRO POLE
- MTS PEDESTAL
- HYDRO POLE ANCHOR
- IRON BAR
- MTS MANHOLE
- HYDRO PEDESTAL
- EXISTING WATERMAIN
- EXISTING WASTEWATER SEWER
- EXISTING LAND DRAINAGE SEWER
- EXISTING GAS LINE
- EXISTING MTS LINE
- EXISTING HYDRO LINE
- BOREHOLE
- MONITORING WELL
- TREE
- ELEVATION
- MAJOR CONTOUR LINE (EXISTING)
- MINOR CONTOUR LINE (EXISTING)
- PROPOSED DITCH
- PROPOSED TOP OF SLOPE
- PROPOSED BOTTOM OF SLOPE
- PROPOSED WATERMAIN
- PROPOSED HYDRANT & VALVE
- PROPOSED ANODE & COUPLING
- PROPOSED WASTEWATER SEWER & MANHOLE
- PROPOSED LAND DRAINAGE SEWER & MANHOLE
- PROPOSED CATCHBASIN
- PROPOSED CATCHPIT
- PROPOSED CLAY CUT-OFF WALL

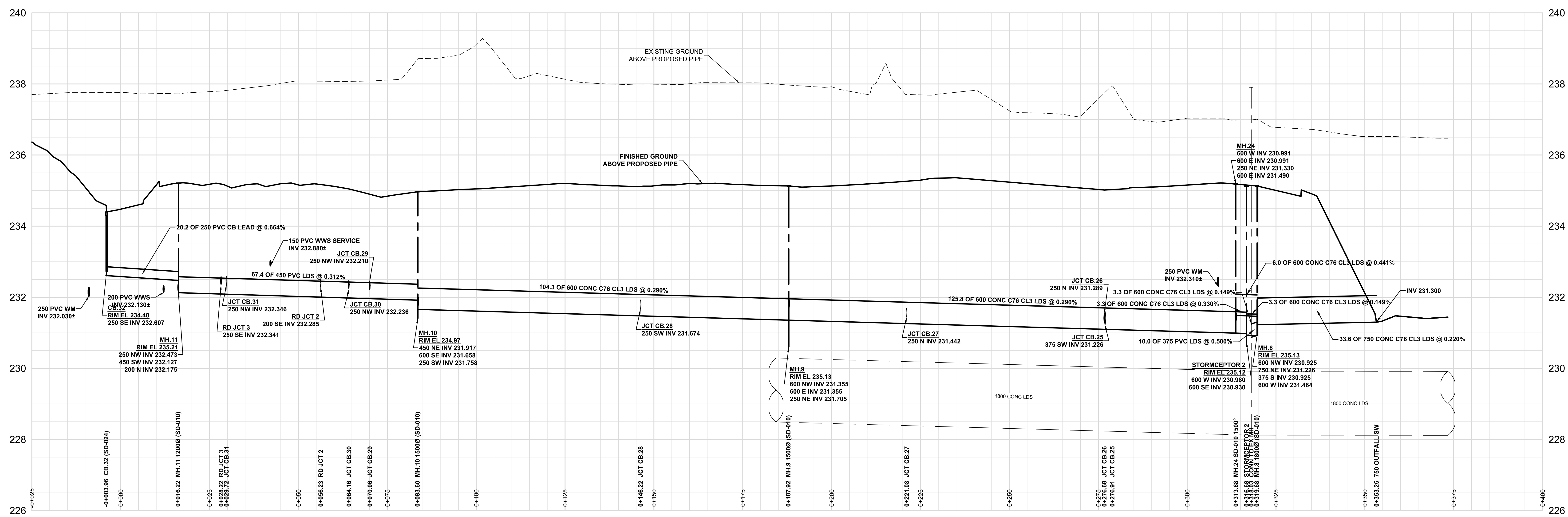
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1/R		



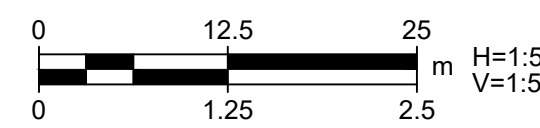
PROPOSED LDS - CB.1 TO MH.3

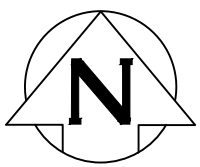
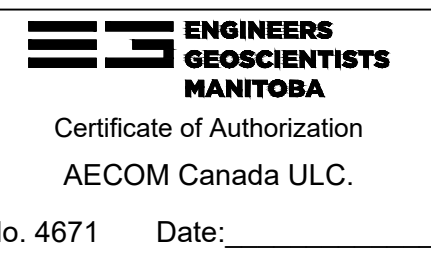


PROPOSED LDS - MH.3 TO 750 OUTFALL N



PROPOSED LDS - CB.32 TO 750 OUTFALL SW



**REGISTRATION****LEGEND**

- EXISTING PROPERTY LINE
- EXISTING CURB
- EXISTING CONCRETE WALK
- EXISTING LANE LINE
- EXISTING ROAD EDGE
- o EXISTING MANHOLE
- o EXISTING CATCHBASIN MANHOLE
- * EXISTING WATER VALVE
- * EXISTING FIRE HYDRANT
- v EXISTING SIGN
- EXISTING SIGNALIZED TRAFFIC POST
- ~w EXISTING TRAFFIC SIGNAL PIT
- ^ EXISTING CATCH PIT
- LIGHT STANDARD
- v HYDRO POLE
- * MTS PEDESTAL
- HYDRO POLE ANCHOR
- Φ IRON BAR
- Φ MTS MANHOLE
- * HYDRO PEDESTAL
- EXISTING WATERMAIN
- EXISTING WASTEWATER SEWER
- EXISTING LAND DRAINAGE SEWER
- EXISTING GAS LINE
- EXISTING MTS LINE
- EXISTING HYDRO LINE
- BOREHOLE
- * MONITORING WELL
- TREE
- ②35.75② ELEVATION
- MAJOR CONTOUR LINE (EXISTING)
- MINOR CONTOUR LINE (EXISTING)
- PROPOSED DITCH
- ||||| PROPOSED TOP OF SLOPE
- PROPOSED BOTTOM OF SLOPE
- PROPOSED WATERMAIN
- PROPOSED HYDRANT & VALVE
- ⊕ PROPOSED ANODE & COUPLING
- PROPOSED WASTEWATER SEWER & MANHOLE
- PROPOSED LAND DRAINAGE SEWER & MANHOLE
- PROPOSED CATCHBASIN
- ▲ PROPOSED CATCHPIT
- ////// PROPOSED CLAY CUT-OFF WALL

ISSUE/REVISION

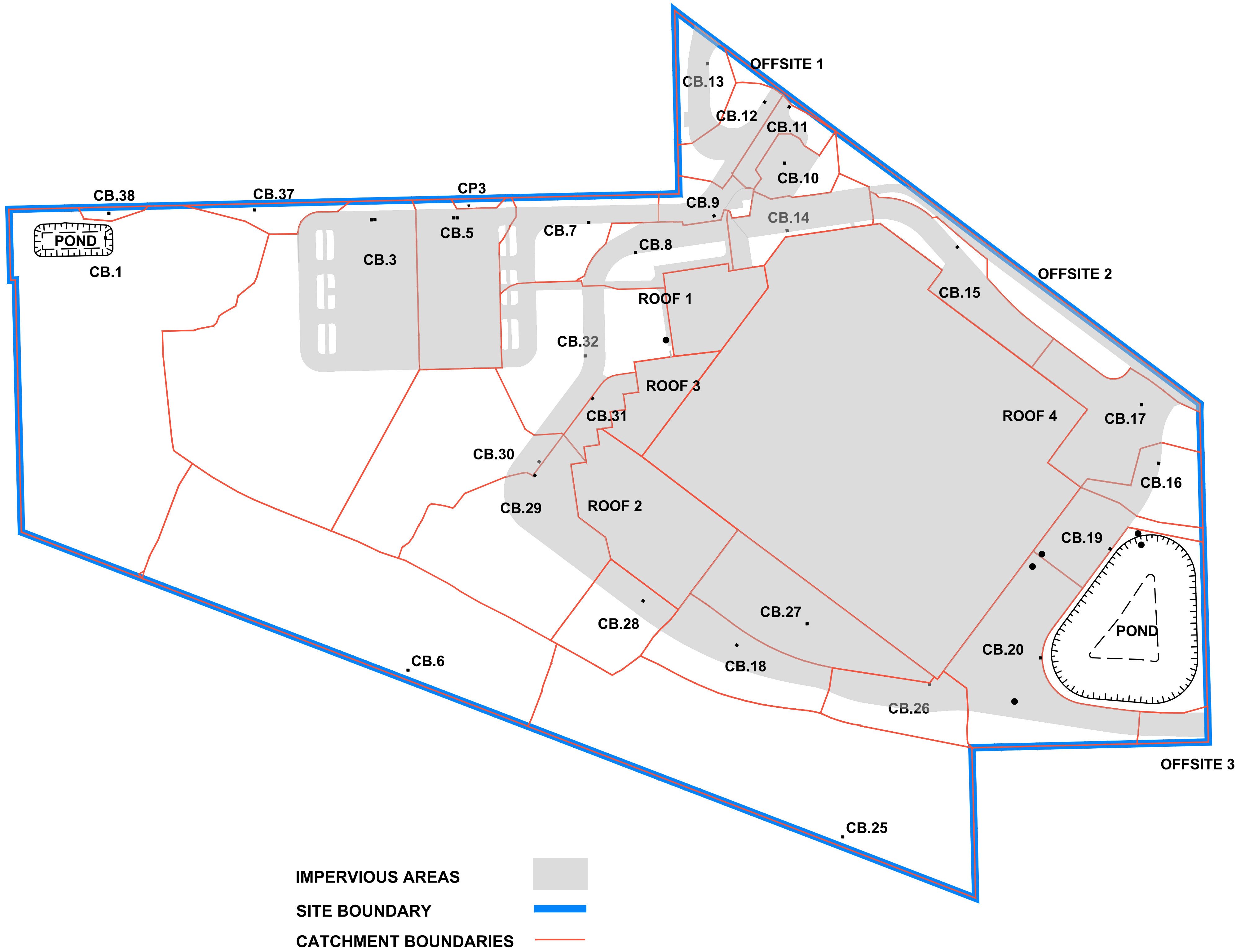
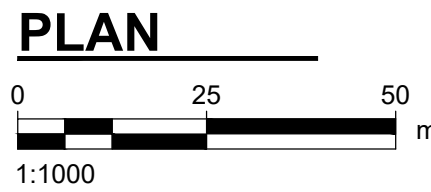
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1/R	DATE	DESCRIPTION

PROJECT NUMBER

60721079

SHEET TITLESTORMWATER
MANAGEMENT
PLAN**SHEET NUMBER**

00-CU-401

**CATCHMENT DIAGRAM**

Catchment	Total Area (m2)	Penious Area (m2)	Impervious Area (m2)	% Impervious	Available Surface Storage (m3)	Depth At Available Storage (mm)	Required 25 Year Storage (m3)	Depth At 25 Year Required Storage (mm)	Required 5 Year Storage (m3)	Depth At 5 Year Required Storage (mm)	Comments
CB 1	11227	11227	0	0%	110	0.6	67	0.347	13	0.153	
CB 3	10417	7262	3155	30%	10	0.175	0	0	0	0	
CB 4	2567	123	2444	95%	27	0.221	0	0.221	0	0	
CB 6	8075	8075	0	0%	18	0.199	12	0.199	2	0.076	
CB 7	1749	1002	747	43%	19	0.208	1.1	0.081	0	0	
CB 8	1529	470	1059	69%	52	0.3	0	0	0	0	
CB 9	611	257	354	58%	7	0.15	0	0	0	0	
CB 10	745	255	490	66%	6	0.114	0	0	0	0	
CB 11	560	179	381	68%	0	0	0	0	0	0	
CB 12	946	471	475	50%	0	0	0	0	0	0	
CB 13	995	553	442	44%	4	0.106	0	0	0	0	
CB 14	1091	285	806	74%	34	0.275	0	0	0	0	
CB 15	1657	278	1379	83%	48	0.3	0	0	0	0	
CB 16	1082	690	392	36%	0	0.07	0	0	0	0	
CB 17	2247	260	1987	88%	9	0.273	0	0	0	0	
CB 18	2017	961	1056	52%	41	0.214	0	0	0	0	
CB 19	1132	158	974	86%	7	0.133	0	0	0	0	
CB 20	3313	695	2618	79%	15	0.18	5	0.135	2	0.030	
CB 25	9085	9085	0	0%	19	0.229	10	0.138	3	0.082	
CB 26	1450	707	743	51%	2	0.084	0	0	0	0	
CB 27	2592	0	2592	100%	50	0.299	4	0.136	0	0.093	
CB 28	1398	973	425	30%	11	0.143	0	0	0	0	
CB 29	4048	2740	1308	32%	1	0.026	2	0.026	1	0.014	Excess Spills to CB 32
CB 30	3898	3688	210	5%	3	0.139	8	0.139	1	0.099	Excess Spills to CB 32
CB 31	467	0	467	100%	2	0.13	0	0	0	0	
CB 32	3455	2307	1128	33%	44	0.3	38	0.300	2	0.092	
CB 37	465	465	0	0%	0	0	0	0	0	0	
CB 38	124	124	0	0%	0	0	0	0	0	0	
CP 3	84	84	0	0%	0	0	0	0	0	0	
ROOF 1	1255	0	1255	100%	0	0	0	0	0	0	Included in CB4
ROOF 2	2772	0	2772	100%	0	0	0	0	0	0	
ROOF 3	980	0	980	100%	0	0	0	0	0	0	
ROOF 4	20595	0	20595	100%	1030	0	1029	0.050	657	0.032	Roof Area - Controlled Discharge (30 L/s)
POND	4291	4291	0	0%	4220	2.765	1298	1.462	772	1.029	
OFFSITE 1	157	127	30	19%	0	0	0	0	0	0	Direct Overland Discharge
OFFSITE 2	1844	1062	782	42%	0	0	0	0	0	0	Direct Overland Discharge
OFFSITE 3	400	100	300	75%	0	0	0	0	0	0	Direct Overland Discharge

TOTAL SITE AREA 111300 m3

ALLOWABLE RUNOFF : 5 YEAR STORM @ C=0.3, Tc=15

AREA (m2)	RUNOFF COEFFICIENT "C"	Tc	INTENSITY (mm/hr)	PEAK RUNOFF (cms)
111300	0.3	15	89.39	0.829

UNRESTRICTED DISCHARGE CATCHMENTS (OVERLAND FLOW)

PEAK 25 YEAR STORM DISCHARGE

AREA (m2)	RUNOFF COEFFICIENT "C"	Tc	INTENSITY (mm/hr)	PEAK RUNOFF (cms)	CATCHMENT
157	0.42	5	199.59	0.004	OFFSITE 1
1844	0.58	5	199.59	0.059	OFFSITE 2
400	0.79	10	154.33	0.014	OFFSITE 3

TOTAL UNRESTRICTED DISCHARGE 0.076 cms

NET ALLOWABLE DISCHARGE TO 1800 L/S ON HYDE AVENUE 0.753 cms

ACTUAL DISCHARGE TO HYDE AVENUE (ICM MODEL) 0.672 cms

NOTICE:
THE EXISTENCE, LOCATION AND ELEVATION OF UTILITIES AND/OR CONCEALED STRUCTURES AT THE PROJECT SITE ARE NOT GUARANTEED BY AECOM CANADA ULC.

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND/OR STRUCTURES AND IS RESPONSIBLE FOR NOTIFYING THE APPROPRIATE COMPANY, DEPARTMENT OR PERSON(S) OF ITS INTENTION TO CARRY OUT ITS OPERATIONS.

CATCHBASIN COORDINATE TABLE		
NAME:	NORTHING	EASTING
CB.1	5532507.993	627913.898
CB.2	5532515.707	628027.369
CB.3	5532515.742	628028.869
CB.4	5532516.560	628063.960
CB.5	5532516.525	628062.460
CB.6	5532323.594	628042.991
CB.7	5532514.120	628120.157
CB.8	5532501.245	628140.202
CB.9	5532516.980	628173.842
CB.10	5532539.915	628203.782
CB.11	5532563.605	628206.167
CB.12	5532566.248	628194.782
CB.13	5532582.337	628171.345
CB.14	5532510.589	628204.886
CB.15	5532504.406	628277.850
CB.16 - OILWATER SEPARATOR	5532411.792	628363.906
CB.17	5532436.791	628356.152
CB.18	5532334.206	628183.306
CB.19	5532375.004	628343.097
CB.20	5532328.808	628313.525
CB.22	5532305.692	628390.259
CB.23	5532307.123	628450.571
CB.24	5532310.523	628499.359
CB.25	5532292.441	628228.558
CB.26	5532318.066	628265.678
CB.27	5532343.367	628213.325
CB.28	5532353.152	628143.330
CB.29	5532406.941	628096.673
CB.30	5532412.222	628099.378
CB.31	5532439.836	628121.305
CB.32	5532457.630	628118.130
CB.37	5532519.915	627977.583
CB.38	5532518.545	627915.329
CP.1	5532485.193	628319.486
CP.2	5532484.118	628320.921
CP3	5532522.103	628068.944

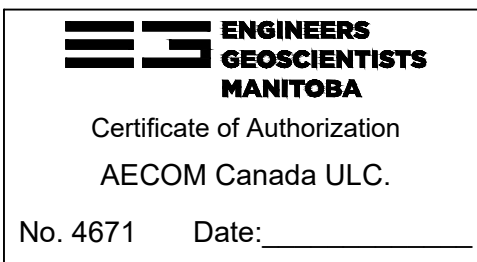
- NOTES:**
- CATCHBASIN COORDINATES FOR SD-024 CATCHBASINS ARE LOW POINT AT BACK OF CURB.
 - COORDINATES FOR SD-025 CATCHBASINS ARE CENTER OF CATCHBASIN.

LAND DRAINAGE SEWER COORDINATE TABLE		
NAME:	NORTHING	EASTING
750 OUTFALL N	5532364.713	628359.454
750 OUTFALL SW	5532329.463	628334.654
CONN TO EX MH	5532299.805	628304.702
MH.1	5532505.911	627978.129
MH.2	5532508.394	628087.939
MH.3	5532514.020	628197.161
MH.4	5532566.097	628192.900
MH.5	5532518.717	628251.734
MH.6	5532477.573	628306.679
MH.7	5532448.888	628344.988
MH.8	5532309.287	628307.839
MH.9	5532329.370	628177.614
MH.10	5532391.893	628094.114
MH.11	5532445.834	628134.504
MH.12	5532445.682	628328.662
MH.13	5532452.305	628319.818
MH.14	5532484.993	628275.893
MH.15	5532481.442	628273.234
MH.16	5532507.624	627922.090
MH.17	5532457.189	628137.570
MH.18	5532459.679	628154.904
MH.19	5532464.385	628153.081
MH.20	5532373.064	628313.636
MH.21	5532367.571	628309.558
MH.22	5532381.844	628354.619
MH.23	5532377.032	628355.978
MH.24	5532310.202	628301.909
RD CONN 1	5532496.081	628171.100
RD CONN 2	5532411.572	628113.502
RD CONN 3	5532433.713	628130.671
ROOF DRAIN OUTFALL 2	5532343.692	628341.688
ROOF DRAIN OUTFALL1	5532348.966	628345.720
STORMCEPTOR 1	5532379.919	628357.003
STORMCEPTOR 2	5532311.109	628305.084
SUMP PUMP CONN	5532460.953	628305.738

WATERMAIN COORDINATE TABLE		
NAME:	NORTHING	EASTING
45° VERT. BEND 1	5532504.757	628274.087
45° VERT. BEND 2	5532504.086	628274.106
300X250 TEE (FIRE-DOM.)	5532525.949	628273.514
300X250X300 TEE	5532622.196	628112.623
ABANDON EX HYDRANT 1	5532455.431	628387.628
CONN TO EX CI WM	5532456.630	628386.027
GV.1	5532454.220	628389.344
GV.2	5532453.830	628386.429
GV.3	5532336.583	628316.202
GV.4	5532317.265	628185.577
GV.5	5532407.378	628081.384
GV.6	5532520.998	628112.651
GV.7	5532521.905	628100.121
GV.8	5532525.699	628262.783
GV.9	5532524.182	628197.766
GV.10	5532524.949	628273.540
GV.11	5532524.162	628197.766
H.1	5532427.401	628368.885
H.2	5532359.234	628335.662
H.4	5532303.792	628286.064
H.5	5532315.219	628211.966
H.6	5532348.426	628138.099
H.7	5532406.136	628084.042
H.8	5532482.704	628115.545
WM 22" BEND 1	5532318.905	628174.939
WM 45" BEND 1	5532451.306	628114.277
WM 45" BEND 2	5532403.986	628078.845
WM 45" BEND 3	5532388.695	628081.734
WM 45" BEND 4	5532301.206	628289.712
WM 45" BEND 5	5532379.720	628348.503
WM 45" BEND 6	5532399.408	628345.674
WM 45" BEND 7	5532496.769	628274.304

WATERMAIN RENEWAL COORDINATE TABLE		
NAME:	NORTHING	EASTING
300X250 TEE (FIRE-DOM.)	5532525.949	628273.514
300X250X300 TEE	5532522.196	628112.623
300X300X150 HYD. TEE H.10	5532525.606	628258.795
ABANDON EX HYDRANT 1	5532523.719	628161.594
ABANDON EX HYDRANT 2	5532526.327	628251.197
CONN TO EX 300 FRC DI WM (E)	5532525.171	628276.378
CONN TO EX 300 FRC DI WM (W)	5532520.774	628097.088
GV.8	5532521.905	628100.121
GV.9	5532525.699	628262.783
GV.12	5532524.182	628197.766
H.9	5532516.420	628175.307
H.9 TEE	5532523.654	628175.138
H.10	5532523.606	628256.842
WM 45" BEND 8	5532520.799	628098.088
WM 45" BEND 9	5532521.881	628099.121
WM 45" BEND 10	5532525.972	628274.513
WM 45" BEND 11	5532525.146	628275.378

WASTEWATER SEWER COORDINATE TABLE		
NAME:	NORTHING	EASTING
CONN TO EX 375 WWS (E)	5532522.111	628256.230
CONN TO EX 375 WWS (W)	5532519.788	628132.295
MH.W1	5532519.055	628256.286
MH.W2	5532473.077	628317.689
MH.W3	5532466.432	628312.713
MH.W4	5532452.869	628134.006
MH.W5	5532426.332	628117.400
N BLDG CONN	5532511.831	628221.725
W BLDG CONN	5532421.858	628123.290



LEGEND

- EXISTING PROPERTY LINE
- EXISTING CURB
- EXISTING CONCRETE WALK
- EXISTING LANE LINE
- EXISTING ROAD EDGE
- EXISTING MANHOLE
- EXISTING CATCHBASIN MANHOLE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING SIGN
- EXISTING SIGNALIZED TRAFFIC POST
- EXISTING TRAFFIC SIGNAL PIT
- EXISTING CATCH PIT
- LIGHT STANDARD
- HYDRO POLE
- MTS PEDESTAL
- HYDRO POLE ANCHOR
- IRON BAR
- MTS MANHOLE
- HYDRO PEDESTAL
- EXISTING WATERMAIN
- EXISTING WASTEWATER SEWER
- EXISTING LAND DRAINAGE SEWER
- EXISTING GAS LINE
- EXISTING MTS LINE
- EXISTING HYDRO LINE
- BOREHOLE
- MONITORING WELL
- TREE
- ELEVATION
- MAJOR CONTOUR LINE (EXISTING)
- MINOR CONTOUR LINE (EXISTING)
- PROPOSED DITCH
- PROPOSED TOP OF SLOPE
- PROPOSED BOTTOM OF SLOPE
- PROPOSED WATERMAIN
- PROPOSED HYDRANT & VALVE
- PROPOSED ANODE & COUPLING
- PROPOSED WASTEWATER SEWER & MANHOLE
- PROPOSED LAND DRAINAGE SEWER & MANHOLE
- PROPOSED CATCHBASIN
- PROPOSED CATCHPIT
- PROPOSED CLAY CUT-OFF WALL

ISSUE/REVISION

0	2025/02/19	ISSUED FOR TENDER
1/R	DATE	DESCRIPTION

PROJECT NUMBER

60721079

SHEET TITLE

UTILITIES LAYOUT PLAN

SHEET NUMBER

00-CU-601

NOTICE:
THE EXISTENCE, LOCATION AND ELEVATION OF UTILITIES AND/OR CONCEALED STRUCTURES AT THE PROJECT SITE ARE NOT GUARANTEED BY AECOM CANADA ULC.

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXISTENCE, LOCATION AND ELEVATION OF ALL SUCH UTILITIES AND/OR STRUCTURES AND IS RESPONSIBLE FOR NOTIFYING THE APPROPRIATE COMPANY, DEPARTMENT OR PERSON(S) OF ITS INTENTION TO CARRY OUT ITS OPERATIONS.