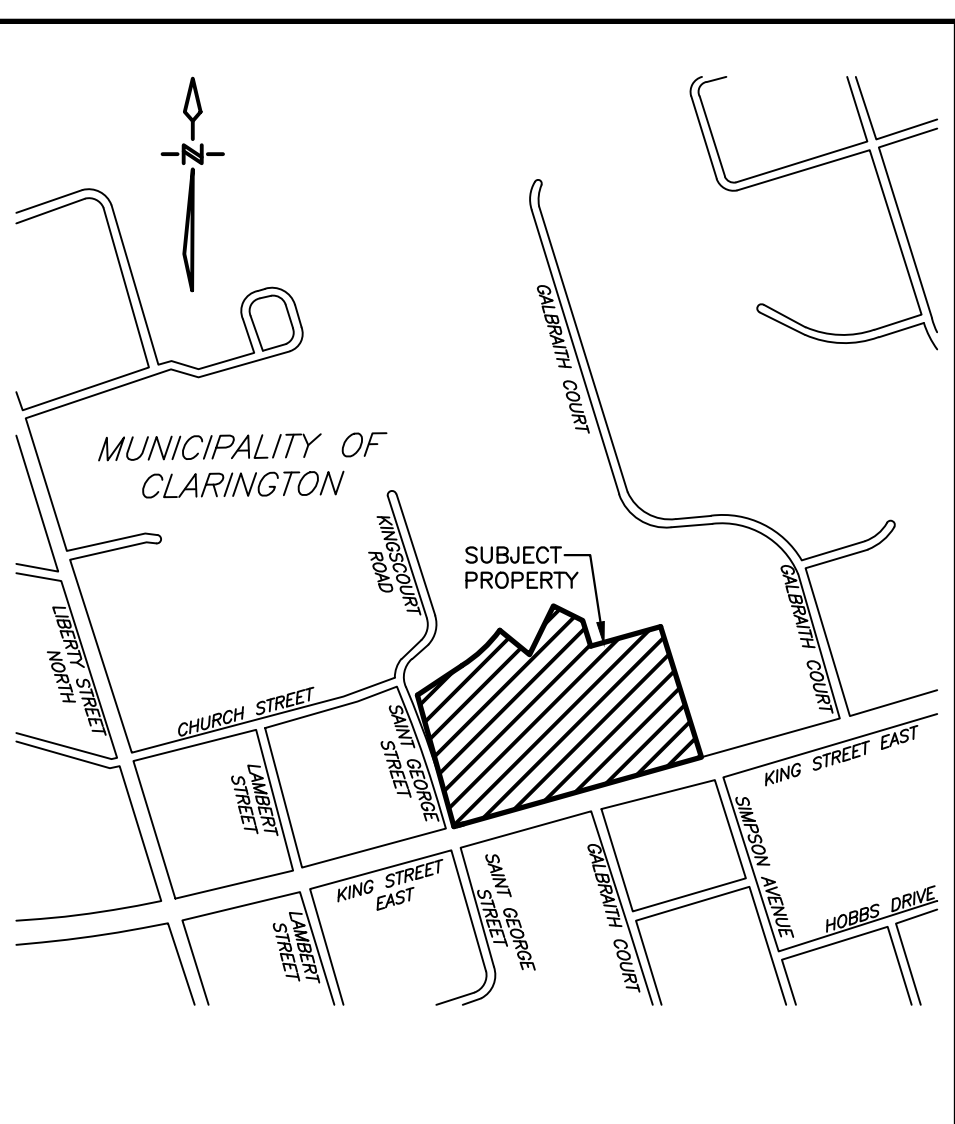




TOPOGRAPHIC SURVEY PREPARED BY D.G. BIDDLE & ASSOCIATES. BENCHMARK: BOWMANVILLE - VINCENT MASSEY SCHOOL AT NORTH SIDE OF CHURCH STREET, 0.8km EAST OF POST OFFICE, 60m WEST OF KINGSCOURT ROAD, TABLET IN EAST CONCRETE FOUNDATION WALL, 91cm FROM SOUTHEAST FRONT CORNER, 10cm BELOW BRICK. ELEVATION=95.166m (BENCHMARK #67U032)

1. A ROAD OCCUPANCY PERMIT WILL BE REQUIRED FOR ANY WORKS WITHIN THE MUNICIPALITY RIGHT OF WAY.
2. ALL WORKS OR RESTORATION WITHIN THE MUNICIPAL RIGHT OF WAY SHALL BE COMPLETED AS PER MUNICIPALITY FIELD STAFF DIRECTION. THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND SERVICES TO BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION. CONCERNED UTILITIES TO BE GIVEN ADVANCED NOTICE FOR MAKE-UP. THE CONSULTANT ASSUMES THE RESPONSIBILITY FOR THE ACCURACY OF THE UTILITIES SHOWN ON THE DRAWINGS.
3. QUANTITIES, DIMENSIONS AND ELEVATIONS TO BE VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR COMMENCING CONSTRUCTION.
4. ALL SANITARY SEWER AND APPURTENANCES SHALL COMPLY WITH THE REGION OF DURHAM STANDARDS AND THE ONTARIO PLUMBING CODE.
 - SANITARY SEWER SERVICE PIPES, 150mm to be CL DR28 PVC PIPE, CL P BEDDING.
 - SANITARY MANHOLES AS PER OPSD 701.010 C/W GRATE AS PER OPSD 401.010
 - ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH REGION OF DURHAM STANDARDS
5. ALL WATER MAINS AND APPURTENANCES SHALL COMPLY WITH THE REGION OF DURHAM STANDARDS AND THE ONTARIO PLUMBING CODE.
 - ALL WATER MAINS SHALL BE CONSTRUCTED A MINIMUM OF 1.80m BELOW FINISHED GRADE
 - ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH REGION OF DURHAM STANDARDS
 - 150mm FIRELINE TO BE DR18 PVC PIPE, CL P BEDDING
 - WATER SERVICE PIPES, 50mm to be MUNICIPEX CROSS LINKED POLYETHYLENE PIPE, CL P BEDDING
6. ALL STORM SEWERS AND APPURTENANCES SHALL COMPLY WITH THE MUNICIPALITY OF CLARINGTON STANDARDS AND THE ONTARIO PLUMBING CODE.
 - STORM SEWER PIPE 450mm and SMALLER SHALL BE DR35 PVC PIPE, CL P BEDDING
 - STORM SEWER PIPES LARGER THAN 450mm SHALL BE CL 650 CONCRETE PIPES, CL P BEDDING
 - STORM SEWER MANHOLES AND CATCH BASIN MANHOLES SHALL BE AS PER OPSD 701.010
 - CATCH BASINS SHALL BE AS PER OPSD 705.010
 - MANHOLE GRATES SHALL BE AS PER OPSD 401.010
 - CATCH BASIN GRATES SHALL BE AS PER OPSD 400.020
 - ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH OPSD STANDARDS
7. GENERALLY, A MINIMUM OF 0.20m SHALL BE PROVIDED BETWEEN THE OUTSIDE OF PIPE, DRAINAGE OR WATER MAINS FOR STORM AND SANITARY SEWERS. A MINIMUM OF 0.50m SHALL BE PROVIDED BETWEEN THE OUTSIDE OF PIPE BARRELS AT THE POINT OF CROSSING FOR ALL SEWERS CROSSING WATER MAINS.
8. THE MAIN ENTRANCE ON MAIN STREET EAST MUST COMPLY WITH THE MUNICIPALITY OF CLARINGTON STANDARDS AS OUTLINED BELOW.

4.	ISSUED FOR FOURTH SUBMISSION	JULY/2022
3.	ISSUED FOR THIRD SUBMISSION	JUNE/2022
2.	ISSUED FOR SECOND SUBMISSION	MAR/2022
1.	ISSUED FOR FIRST SUBMISSION	OCT/2021
NO.	SUBMISSION	DATE

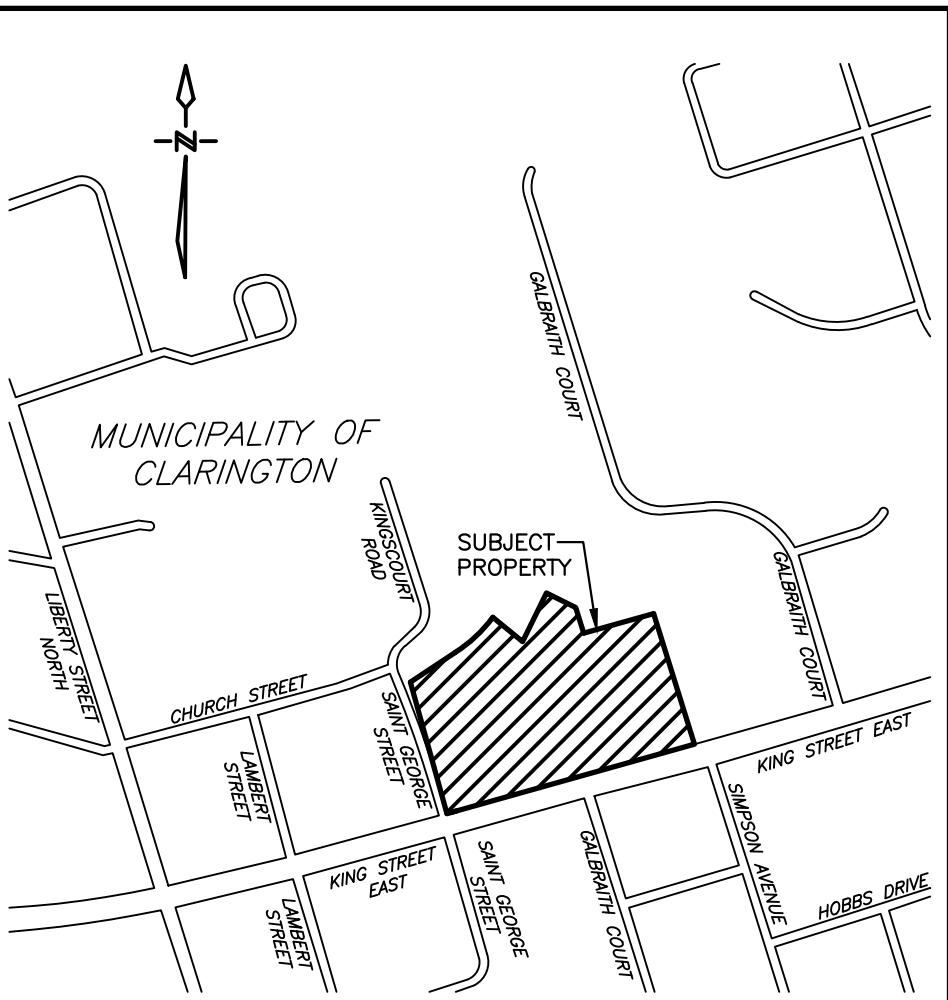
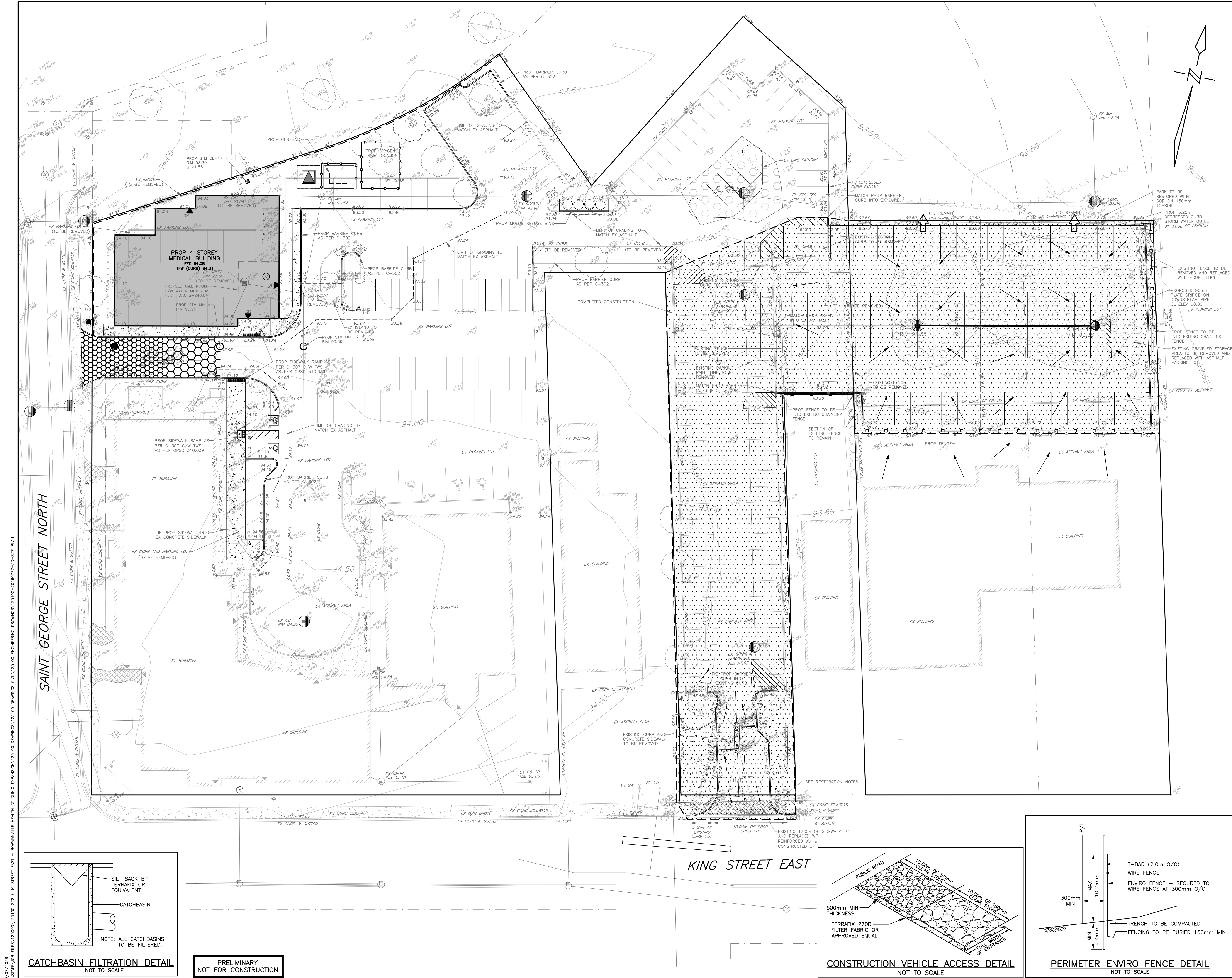
SITE SERVICING PLAN

 **D.G. BIDDLE
& ASSOCIATES**
CONSULTING ENGINEERS & PLANNERS

96 King Street East
Oshawa, Ontario, L1H 1H1
Phone: 905-576-8511
info@dgbiddle.com
dgbiddle.ca

	SCALE:	1:3
	DESIGNED BY:	B.K
	CHECKED BY:	C.J
	PROJECT NO.:	12580
	DRAWING NO.:	SS-

FOR INFORMATION ONLY- STRUCTURAL TENDER



BENCH MARK
TOPOGRAPHIC SURVEY PREPARED BY D.G. BIDDLE & ASSOCIATES. BENCHMARK: BOWMANVILLE - VINCENT MASSEY SCHOOL AT NORTH SIDE OF CHURCH STREET, 8km EAST OF POST OFFICE, 60m WEST OF KINGSCOURT ROAD, TABLET IN EAST CONCRETE FOUNDATION WALL, 91cm FROM SOUTHEAST FRONT CORNER, 10cm BELOW BRICK. ELEVATION=95.166m (BENCHMARK #67U032)

- DUST CONTROL MEASURES:**
- A. PRE-GRADING PLANNING**
1. THE SITE SERVING FOR THE SITE SHALL BE SCHEDULED SUCH THAT THE OVERALL TIME THE AREAS LEFT OPEN TO WIND THAT CREATE BLOWING DUST FROM THE EARTHWORK OPERATIONS IS MINIMIZED.
 2. THE TOPSOIL STOCKPILE (IF APPLICABLE) SHALL BE STABILIZED WITHIN 30 DAYS OF STOCKPILING MATERIALS IN ACCORDANCE WITH CITY'S CRITERIA. ALL DISTURBED LANDS OUTSIDE THE PHASE OF WORK SHALL BE STABILIZED/VEGETATED.
 3. THE CONTRACTOR SHALL APPLY WATER TO HAUL ROADS AND STOCKPILES (IF APPLICABLE) BY WAY OF WATER TRUCK.
- B. WATERING (POST GRADING)**
4. WITHIN AREAS WHERE EARTHWORKS AND OR UNDERGROUND MUNICIPAL SERVING IS ON-GOING, WATER IS TO BE UTILIZED AT SUFFICIENT QUANTITY TO PREVENT VISIBLE EMISSIONS FROM EXTENDING MORE THAN 30m FROM THE POINT OF ORIGIN.
- C. REDUCE VEHICLE SPEED**
5. THE ON-SITE SPEED LIMIT FOR CONSTRUCTION VEHICLES SHALL BE MINIMIZED AND TO BE USED IN CONJUNCTION WITH WATERING TO PREVENT VISIBLE DUST EMISSIONS.
- D. RESTRICT ACTIVITIES DURING HIGH WIND PERIODS**
6. THE HIGH VISIBILITY OF CERTAIN WORKS AND THE CLOSE PROXIMITY AND POPULATION IMPACT SHOULD BE TAKEN INTO CONSIDERATION WHEN SCHEDULING DUST-PRODUCING WORK. APPROPRIATE DUST CONTROL MEASURES SHALL BE IN PLACE IN SUCH SITUATIONS.
- E. ROAD CLEANING**
7. SPILLAGE, EROSION OR MATERIALS "TRACKED OUT" ON A ROAD TO BE CLEANED USING MECHANICAL STREET SWEEPERS OR FLUSHER TRUCK AT LEAST BY THE END OF THE WORK DAY. HOWEVER, IF SPILLAGE EXTENDS MORE THAN 15m ALONG A PAVED PUBLIC ROADWAY, IT MUST BE CLEANED UP IMMEDIATELY.
 8. IMPORTING AND EXPORTING OF MATERIALS ON AND OFF-SITE WILL BE SHUT DOWN DURING AND FOLLOWING INCLEMENT WEATHER UNTIL THE ROAD SURFACES HAVE BEEN CLEANED.

- LEGEND**
- PERIMETER ENVIRO FENCE
 - DIRECTION OF OVERLAND FLOW
 - CATCHBASIN FILTRATION
 - CONSTRUCTION VEHICLE ACCESS

- SEDIMENT CONTROL CONSTRUCTION SCHEDULE**
1. INSTALL PERIMETER ENVIRO FENCE AND CONSTRUCTION VEHICLE ACCESS.
 2. EXCAVATE PERIMETER SWALES AND SEDIMENT PONDS AS REQUIRED.
 3. STRIP SITE OF TOPSOIL AND REMOVE OFF SITE OR STOCK PILE AND PROVIDE ENVIRO FENCE AROUND BOTTOM OF PILE.
 4. INSTALL MINOR STORM SEWER SYSTEM ALONG WITH OTHER SERVICES.
 5. INSTALL CATCHBASIN FILTRATION ON ALL CATCHBASINS AND CATCHBASIN.
 6. SEDIMENT CONTROL MEASURES ARE TO BE MAINTAINED UNTIL ALL AREAS OF THE SITE HAVE BEEN STABILIZED WITH SOD OR ASPHALT.

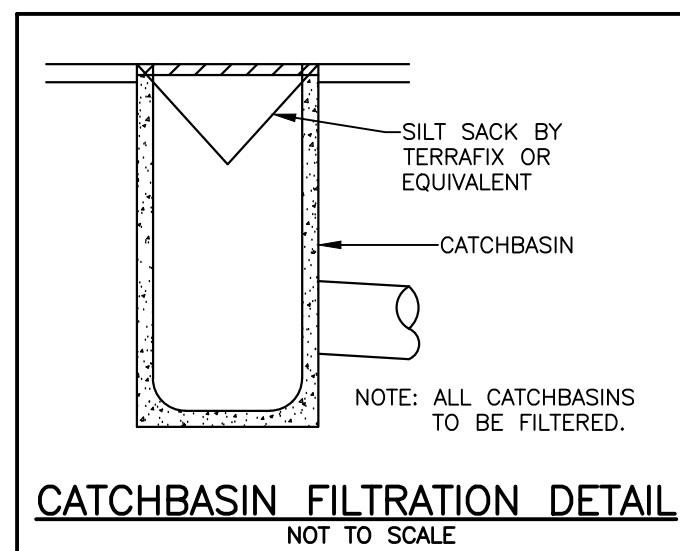
4.	ISSUED FOR FOURTH SUBMISSION	JULY/2026
3.	ISSUED FOR THIRD SUBMISSION	JUNE/2025
2.	ISSUED FOR SECOND SUBMISSION	MAR/2025
1.	ISSUED FOR FIRST SUBMISSION	OCT/2024
NO.	SUBMISSION	DATE

222 KING STREET EAST, BOWMANVILLE

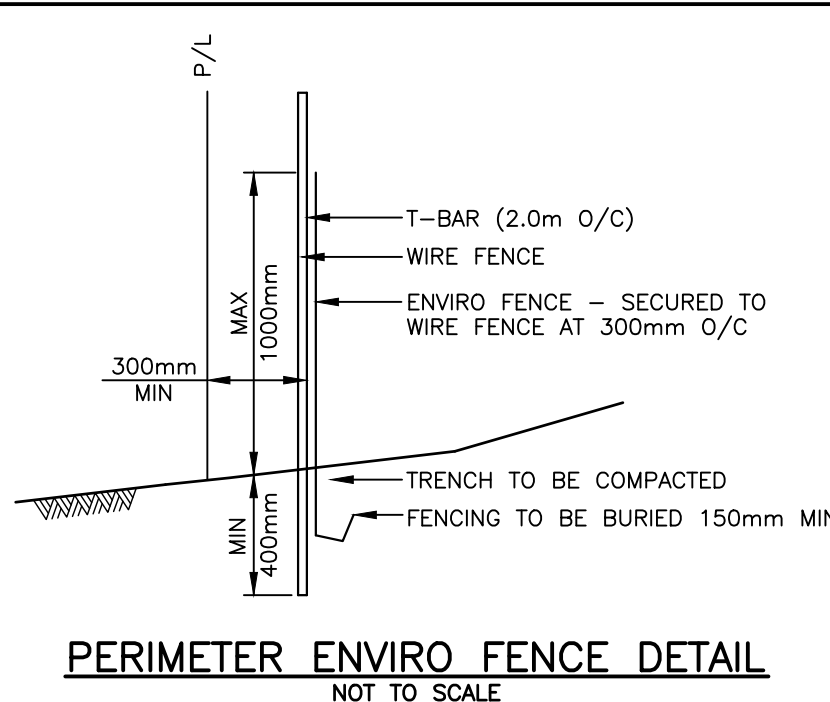
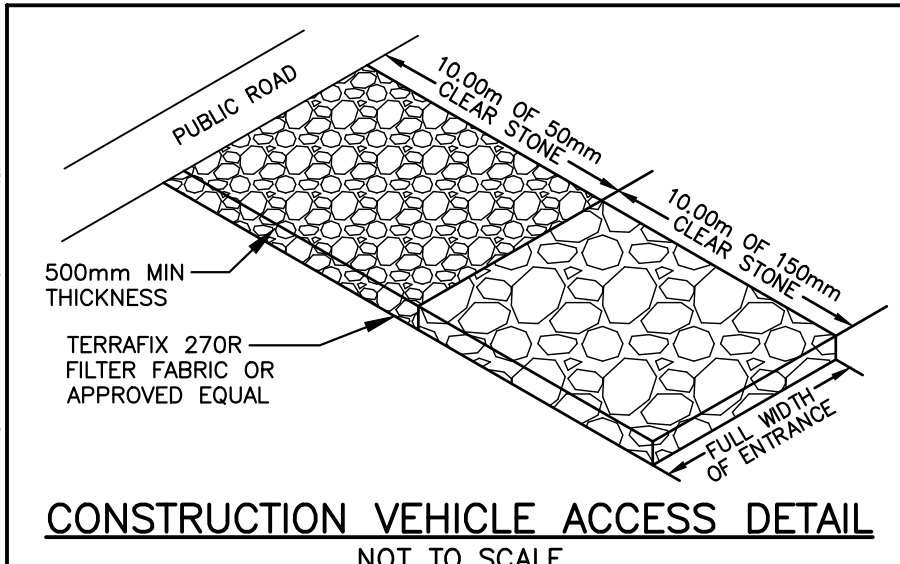
EROSION AND SEDIMENT CONTROL PLAN

D.G. BIDDLE & ASSOCIATES
CONSULTING ENGINEERS & PLANNERS
96 King Street East
Oshawa, Ontario, L1H 1B6
Phone: 905-576-8500
info@dgbiddle.com
dgbiddle.com

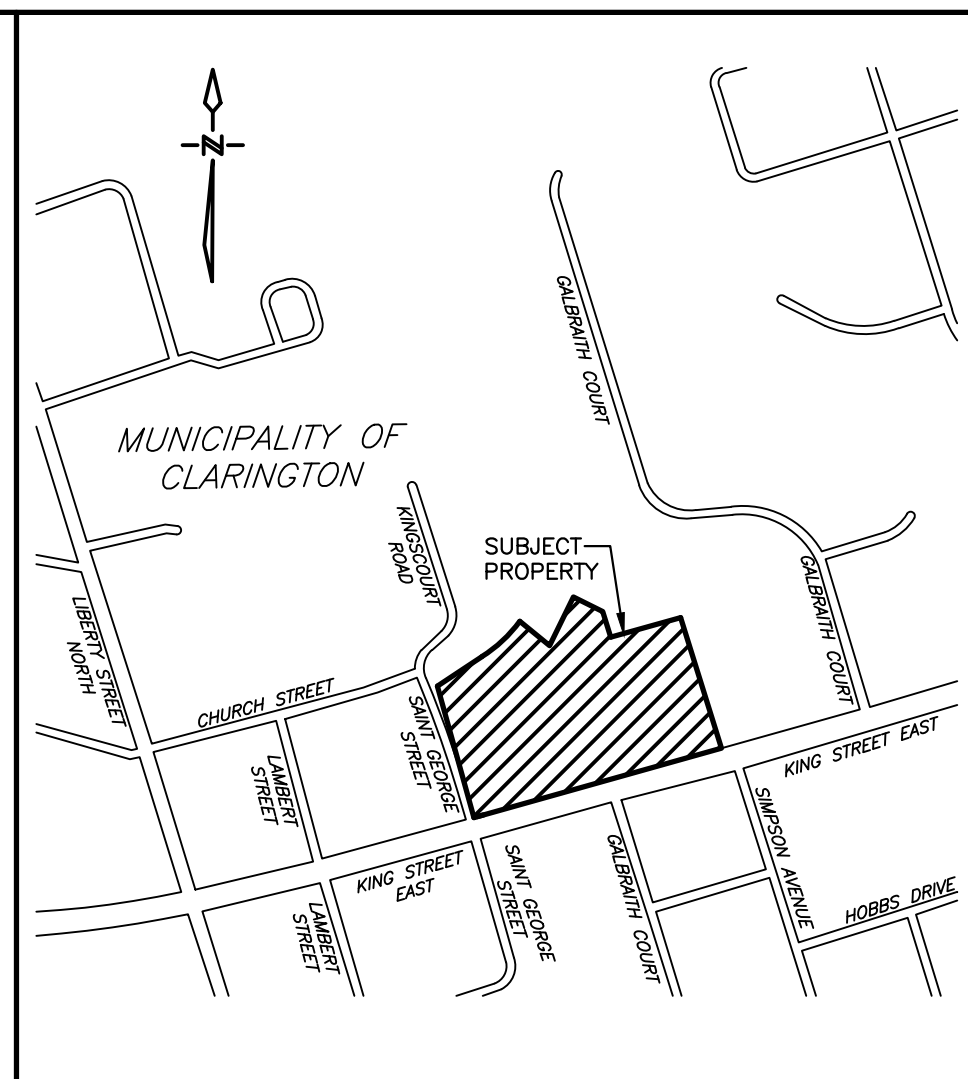
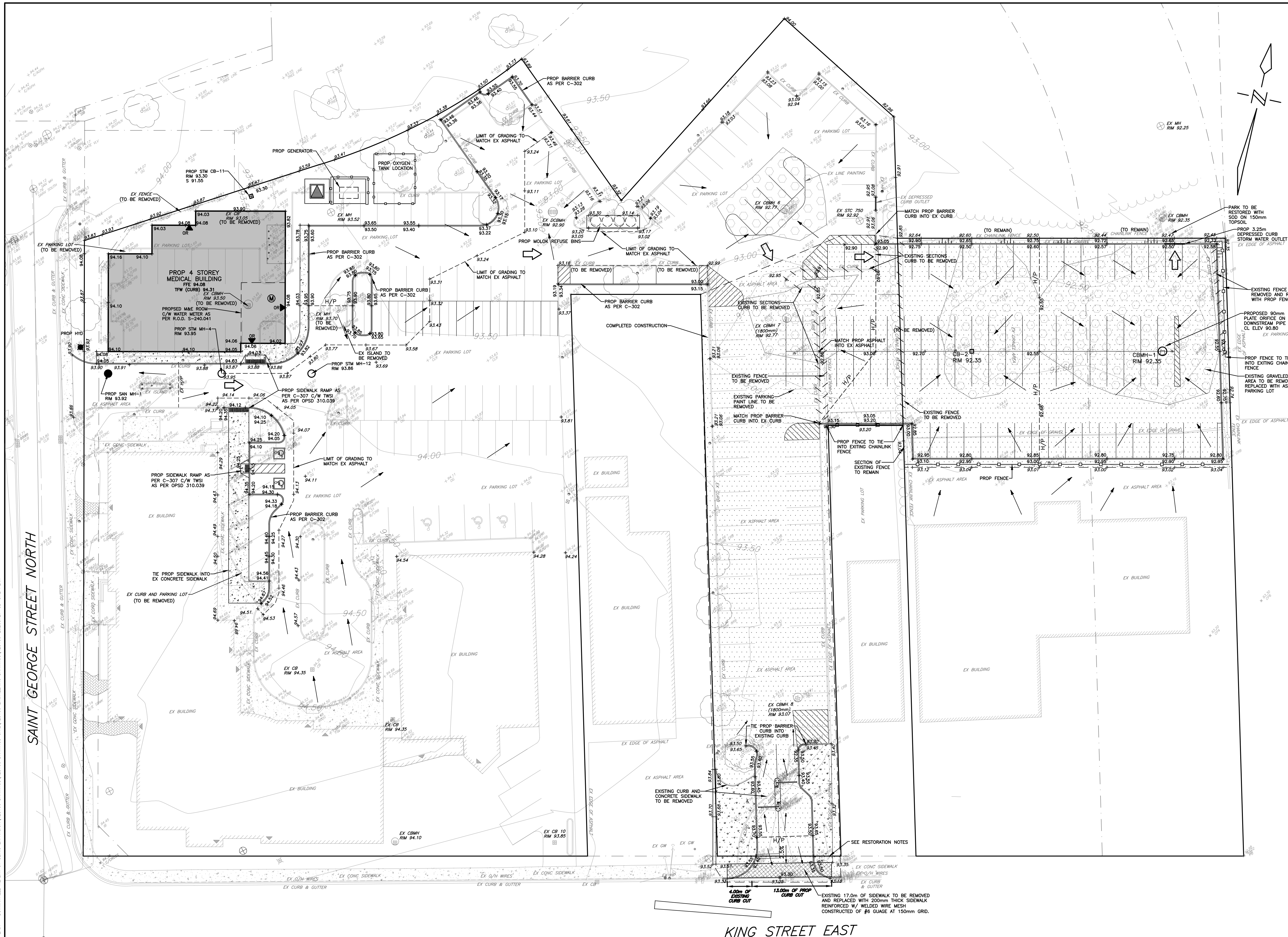
SCALE:	1:300
DESIGNED BY:	B.K.Y.
CHECKED BY:	C.J.F.
PROJECT NO.:	125807
DRAWING NO.:	ES-1



PRELIMINARY
NOT FOR CONSTRUCTION



FOR INFORMATION ONLY- STRUCTURAL TENDER



BENCH MARK
TOPOGRAPHIC SURVEY PREPARED BY D.G. BIDDLE & ASSOCIATES. BENCHMARK: BOWMANVILLE - VINCENT MASSEY SCHOOL AT NORTH SIDE OF CHURCH STREET, 80m EAST OF POST OFFICE, 60m WEST OF KINGSCOURT ROAD, TABLET IN EAST CONCRETE FOUNDATION WALL, 91cm FROM SOUTHEAST FRONT CORNER, 10cm BELOW BRICK. ELEVATION=95.166m (BENCHMARK #67U032)

SITE GRADING NOTES

1. A ROAD OCCUPANCY PERMIT WILL BE REQUIRED FOR ANY WORKS WITHIN THE MUNICIPAL RIGHT OF WAY.
2. ALL WORKS OR RESTORATION WITHIN THE MUNICIPAL RIGHT OF WAY SHALL BE COMPLETED AS PER THE MUNICIPAL'S FIELD STAFF DIRECTION.
3. THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND SERVICES TO BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION. CONCERNED UTILITIES TO BE GIVEN ADVANCED NOTICE FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE UTILITIES SHOWN ON THE DRAWINGS.
4. QUANTITIES, DIMENSIONS AND ELEVATIONS TO BE VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR COMMENCING CONSTRUCTION.
5. ALL SLOPES SHALL BE CONSTRUCTED AT 3:1 (MAXIMUM) UNLESS OTHERWISE NOTED ON THE DRAWINGS.
6. ALL SWALES SHALL BE CONSTRUCTED WITH 2% MINIMUM GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
7. ALL SLOPES, SWALES AND OPEN SPACE AREAS SHALL BE SODDED ON A MINIMUM OF 300mm OF TOPSOIL.
8. ALL DISTURBED AREAS WITHIN ABUTTING MUNICIPAL RIGHT OF WAYS SHALL BE SODDED ON A MINIMUM OF 150mm OF TOPSOIL.
9. THE PROPOSED ENTRANCE ON KING STREET EAST MUST COMPLY WITH THE MUNICIPALITY OF CLARINGTON STANDARDS AS OUTLINED BELOW.
 - SURFACE ASPHALT - 40mm HL3
 - BASE ASPHALT - 50mm HL8
 - 150mm GRANULAR A
 - 300mm GRANULAR B
 - ENTRANCE WIDTH: 6.0 - 9.0 METRES
 - ENTRANCE RADIUS: 9.0 - 12.0 METRES
 - BARRIER CURB AS PER C-302

LEGEND

- ORIGINAL SURVEY ELEVATION
ORIGINAL ELEVATION TO REMAIN
PROPOSED ELEVATIONS
PROPOSED SWALE
DIRECTION OF DRAINAGE
DIRECTION OF OVERLAND FLOW
LIMIT OF GRADING
LIMIT OF PONDING
(100 YR W.S.E. 92.55)
COMPLETED CONSTRUCTION
(124004 AS PER JUNE 2025, D.G. BIDDLE)
METER ROOM
PROP HYDRANT

PRELIMINARY
NOT FOR CONSTRUCTION

4.	ISSUED FOR FOURTH SUBMISSION	JULY/2026
3.	ISSUED FOR THIRD SUBMISSION	JUNE/2025
2.	ISSUED FOR SECOND SUBMISSION	MAR/2025
1.	ISSUED FOR FIRST SUBMISSION	OCT/2024
NO.	SUBMISSION	DATE

222 KING STREET EAST, BOWMANVILLE

SITE GRADING PLAN

D.G. BIDDLE & ASSOCIATES
CONSULTING ENGINEERS & PLANNERS
96 King Street East
Oshawa, Ontario, L1H 1B6
Phone: 905-576-8500
info@dgbiddle.com
dgbiddle.com

SCALE:	1:300
DESIGNED BY:	B.K.Y.
CHECKED BY:	C.J.F.
PROJECT NO.:	125807
DRAWING NO.:	SG-1

