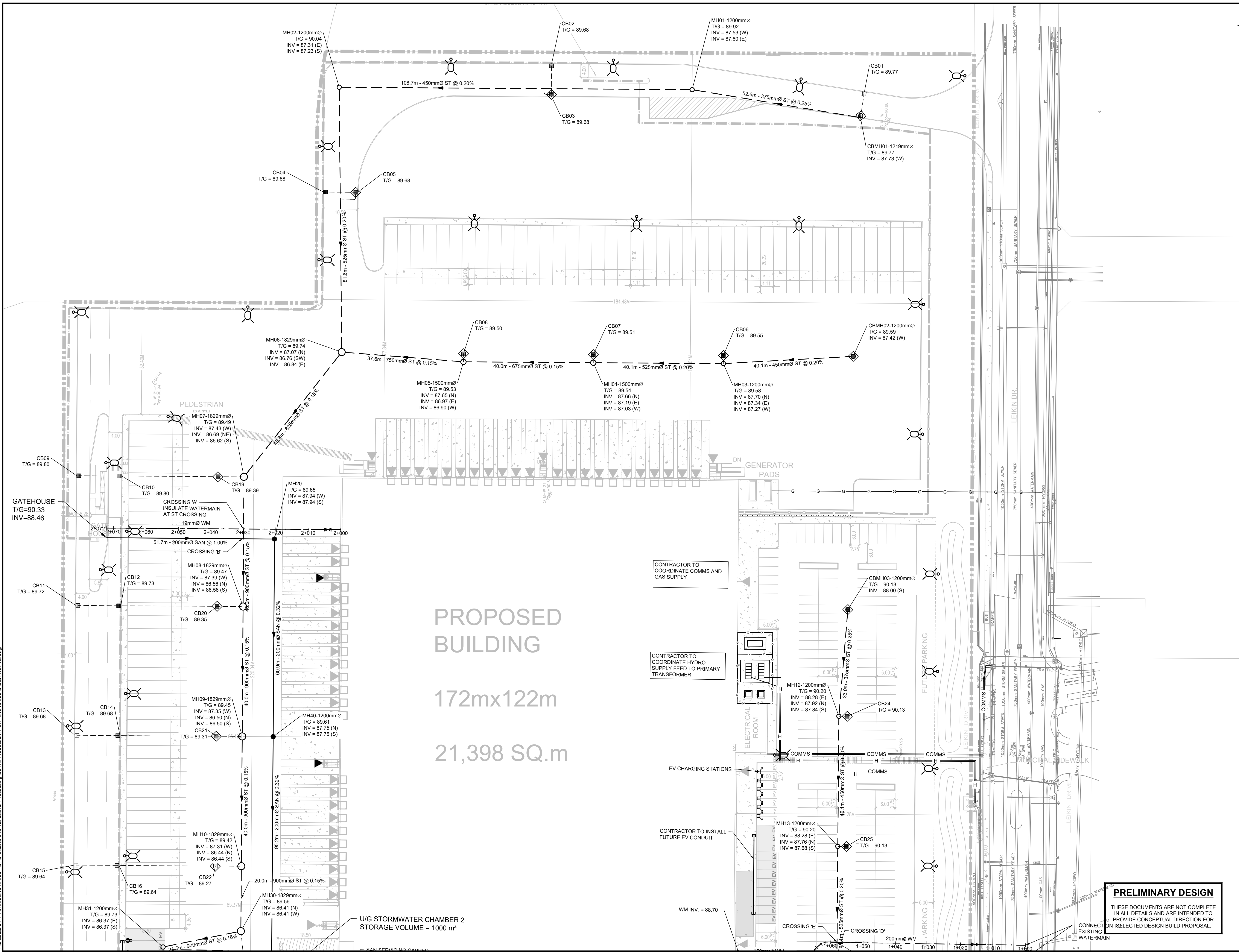
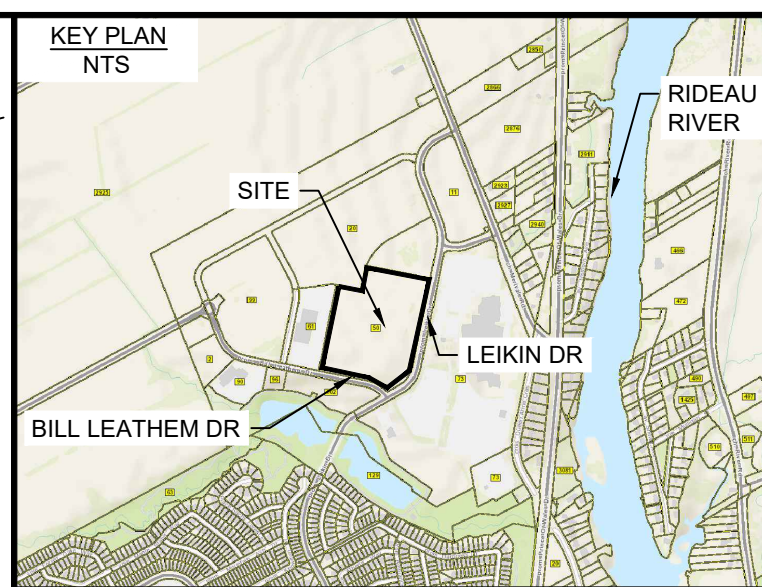


File Location: P:\131000\1940-000 - CFC Ottawa and Vancouver Processing Centres\Production\Civil\1940-000-C SERVICING.dwg



PROPOSED BUILDING
172mx122m
21,398 SQ.m

U/G STORMWATER CHAMBER 2
STORAGE VOLUME = 1000 m³



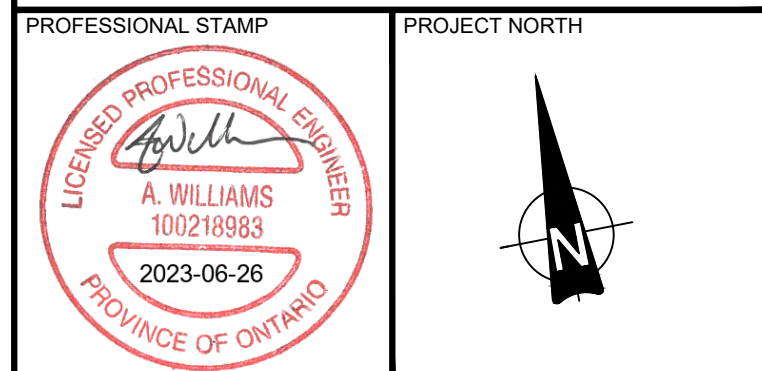
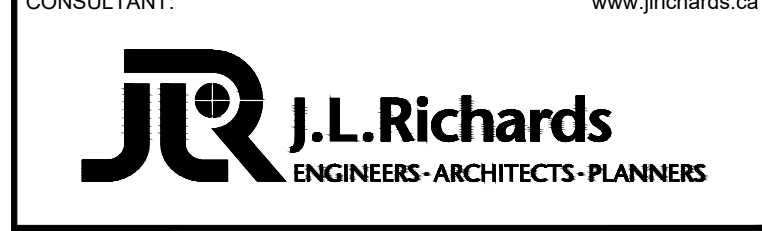
- LEGEND**
- PROPERTY LINE
 - VC EXISTING VALVE CHAMBER (WATERMAIN)
 - FH EXISTING FIRE HYDRANT
 - WV EXISTING WATER VALVE
 - CB EXISTING CATCH BASIN INLET
 - M-W EXISTING MONITORING WELL
 - MH EXISTING MAINTENANCE HOLE
 - 2.7m HIGH PROPOSED CHAIN LINK FENCE
 - 2.7m HIGH PROPOSED ORNAMENTAL FENCE
 - FL PROPOSED FIRE HYDRANT
 - FE FUTURE ELECTRIC VEHICLE CONDUIT
 - H PROPOSED HYDRO
 - G PROPOSED GAS
 - BH BLOCK HEATER RECEPTACLE
 - EV ELECTRIC VEHICLE CHARGER

No.	ISSUE / REVISION	DDMMYY
1	ISSUED FOR SITE PLAN CONTROL	26/06/23
0	ISSUED FOR SITE PLAN CONTROL	16/06/23

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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 1:500



PROJECT: CANADA POST CORPORATION
OTTAWA PROCESSING CENTRE
50 LEIKIN DRIVE
OTTAWA, ONTARIO

DRAWING: SITE SERVICING

DESIGN: AW
DRAWN: NQ/KT
CHECKED: LJ
JLR #: 31940-000

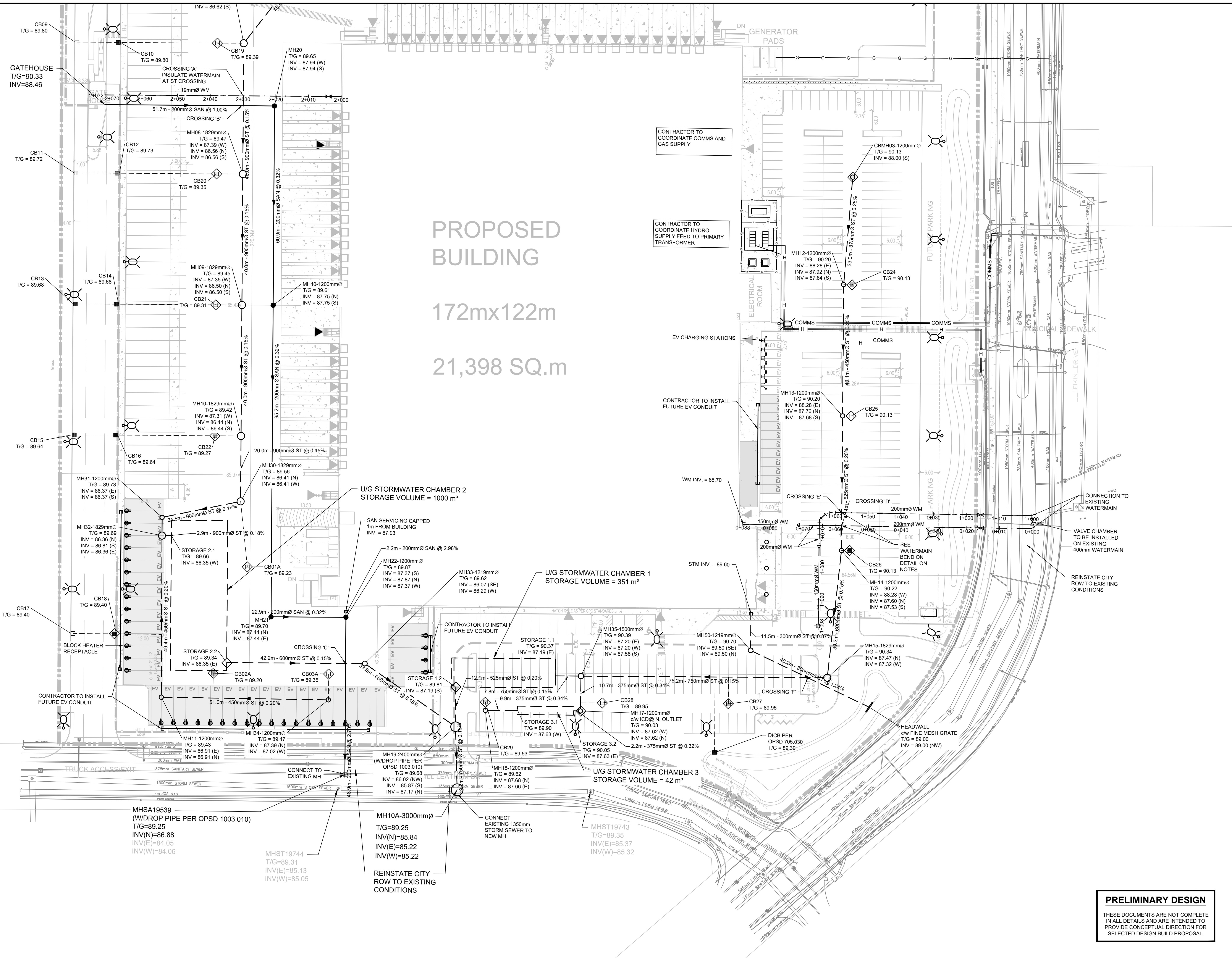
DRAWING #: C02

PRELIMINARY DESIGN

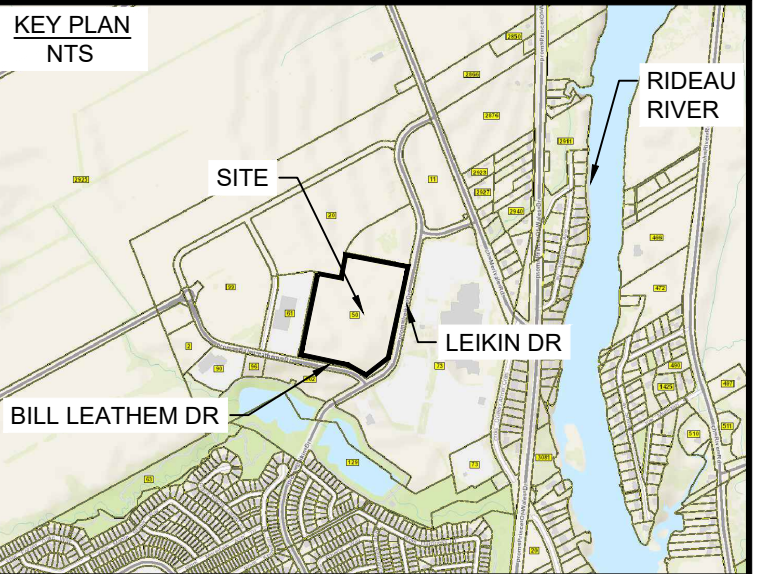
THESE DOCUMENTS ARE NOT COMPLETE IN ALL DETAILS AND ARE INTENDED TO PROVIDE CONCEPTUAL DIRECTION FOR SELECTED DESIGN BUILD PROPOSAL.

PLOT DATE: June 26, 2023 3:57:32 PM

File Location: P:\13100031940-000 - CFC Ottawa and Vancouver Processing Centre\Production\Civil\13100031940-000 C SERVING.dwg



PROPOSED BUILDING
172mx122m
21,398 SQ.m



- LEGEND**
- PROPERTY LINE
 - VC EXISTING VALVE CHAMBER (WATERMAIN)
 - FH EXISTING FIRE HYDRANT
 - WV EXISTING WATER VALVE
 - CB EXISTING CATCH BASIN INLET
 - M-W EXISTING MONITORING WELL
 - MH EXISTING MAINTENANCE HOLE
 - 2.7m HIGH PROPOSED CHAIN LINK FENCE
 - 2.7m HIGH PROPOSED ORNAMENTAL FENCE
 - FL PROPOSED FIRE HYDRANT
 - FE FUTURE ELECTRIC VEHICLE CONDUIT
 - H PROPOSED HYDRO
 - GH PROPOSED GAS
 - BH BLOCK HEATER RECEPTACLE
 - EV ELECTRIC VEHICLE CHARGER

No.	ISSUE / REVISION	DDMMYY
1	ISSUED FOR SITE PLAN CONTROL	28/06/23
0	ISSUED FOR SITE PLAN CONTROL	16/06/23

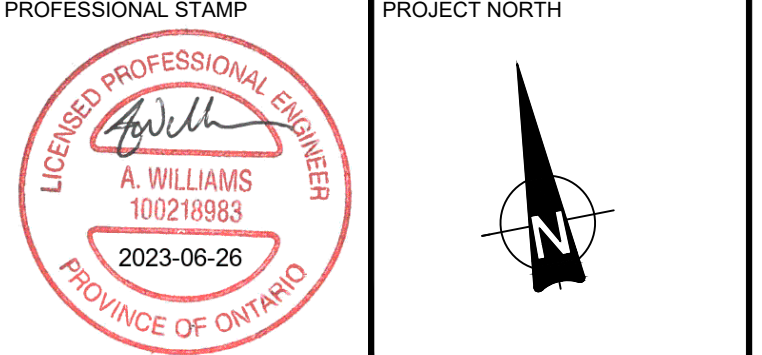
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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 1:500



CONSULTANT: www.jlrichards.ca



PROJECT: CANADA POST CORPORATION
OTTAWA PROCESSING CENTRE
50 LEIKIN DRIVE
OTTAWA, ONTARIO

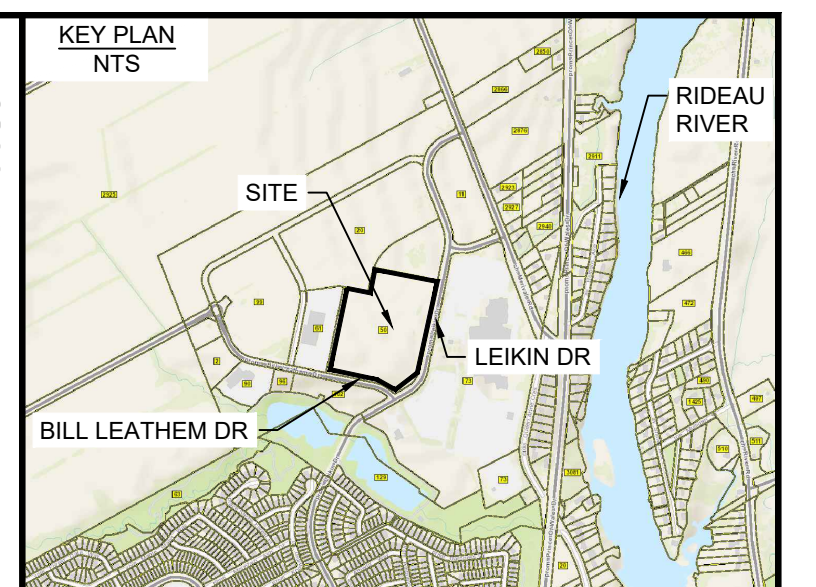
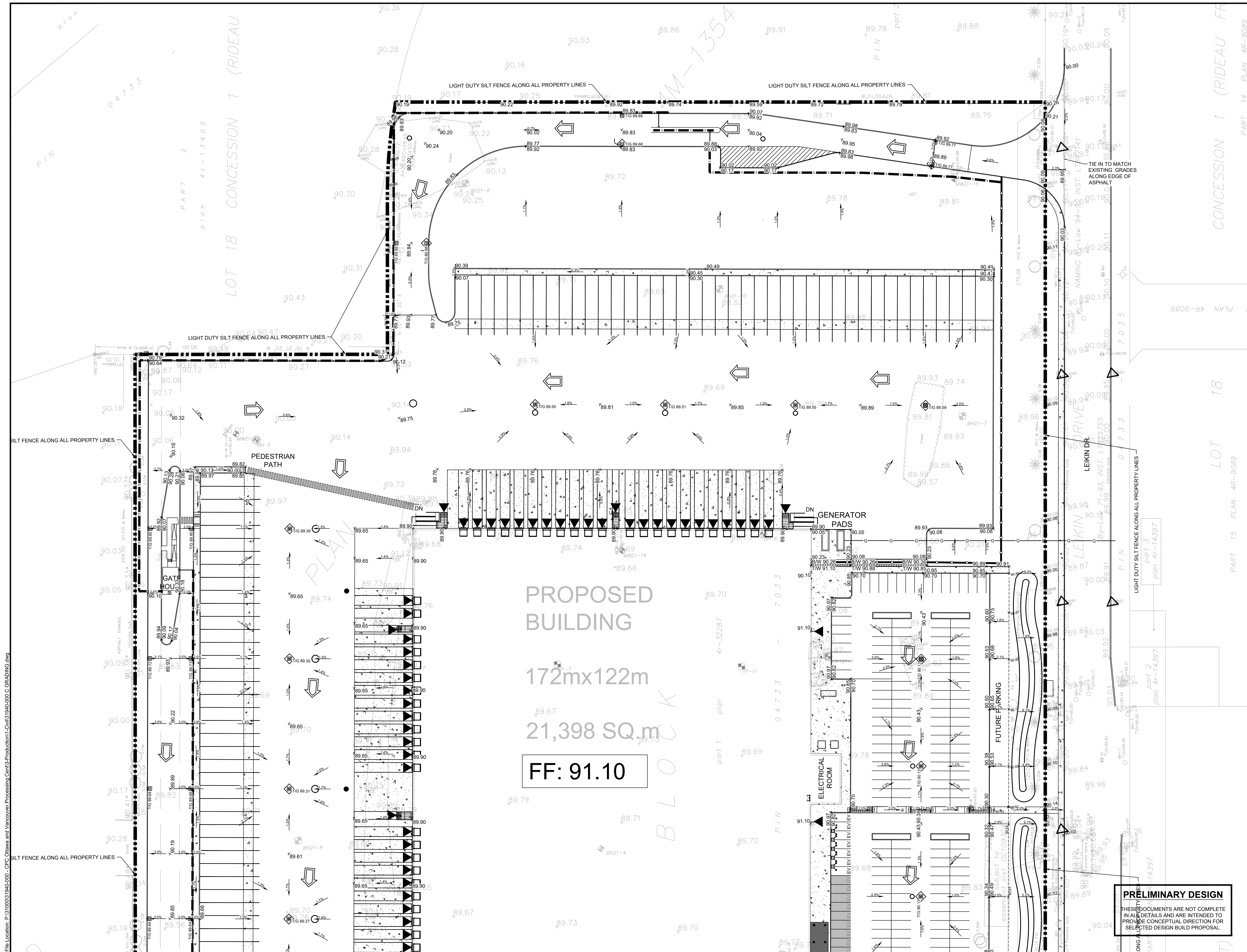
DRAWING: **C02.1**

DESIGN: AW
DRAWN: NQ/KT
CHECKED: LJ
JLR #: 31940-000

PRELIMINARY DESIGN

THESE DOCUMENTS ARE NOT COMPLETE IN ALL DETAILS AND ARE INTENDED TO PROVIDE CONCEPTUAL DIRECTION FOR SELECTED DESIGN BUILD PROPOSAL.

PLOT DATE: June 26, 2023 3:58:31 PM



LEGEND

- PROPERTY LINE
- 89.92 EXISTING ELEVATION (m)
- 89.92* EXISTING TOP OF CURB/WALL ELEVATION (m)
- 89.53* PROPOSED ELEVATION
- 1.5% SURFACE SLOPE
- FLOW DIRECTION
- △ FILTER CLOTH FOR EXISTING STRUCTURE
- IB IRON BAR
- VC EXISTING VALVE CHAMBER (WATERMAIN)
- FH EXISTING FIRE HYDRANT
- WV EXISTING WATER VALVE
- CB EXISTING CATCH BASIN INLET
- M-W EXISTING MONITORING WELL
- MH EXISTING MAINTENANCE HOLE
- 2.7m HIGH PROPOSED CHAIN LINK FENCE
- 2.7m HIGH PROPOSED ORNAMENTAL FENCE
- OVERLAND FLOW
- ▬ RETAINING WALL

No.	ISSUE / REVISION	DDMMYY
1	ISSUED FOR SITE PLAN CONTROL	26/06/23
0	ISSUED FOR SITE PLAN CONTROL	16/06/23

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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 1:500



CLIENT: CANADA POST

CONSULTANT: J.L. Richards ENGINEERS-ARCHITECTS-PLANNERS



PROFESSIONAL STAMP: A. WILLIAMS, LICENSED PROFESSIONAL ENGINEER, 100218963, 2023-06-26, PROVINCE OF ONTARIO

PROJECT NORTH: [North Arrow]

PROJECT: CANADA POST CORPORATION OTTAWA PROCESSING CENTRE

50 LIEKIN DRIVE OTTAWA, ONTARIO

DRAWING: GRADING AND EROSION & SEDIMENT CONTROL PLAN

DESIGN: AW

DRAWN: NO/JKT

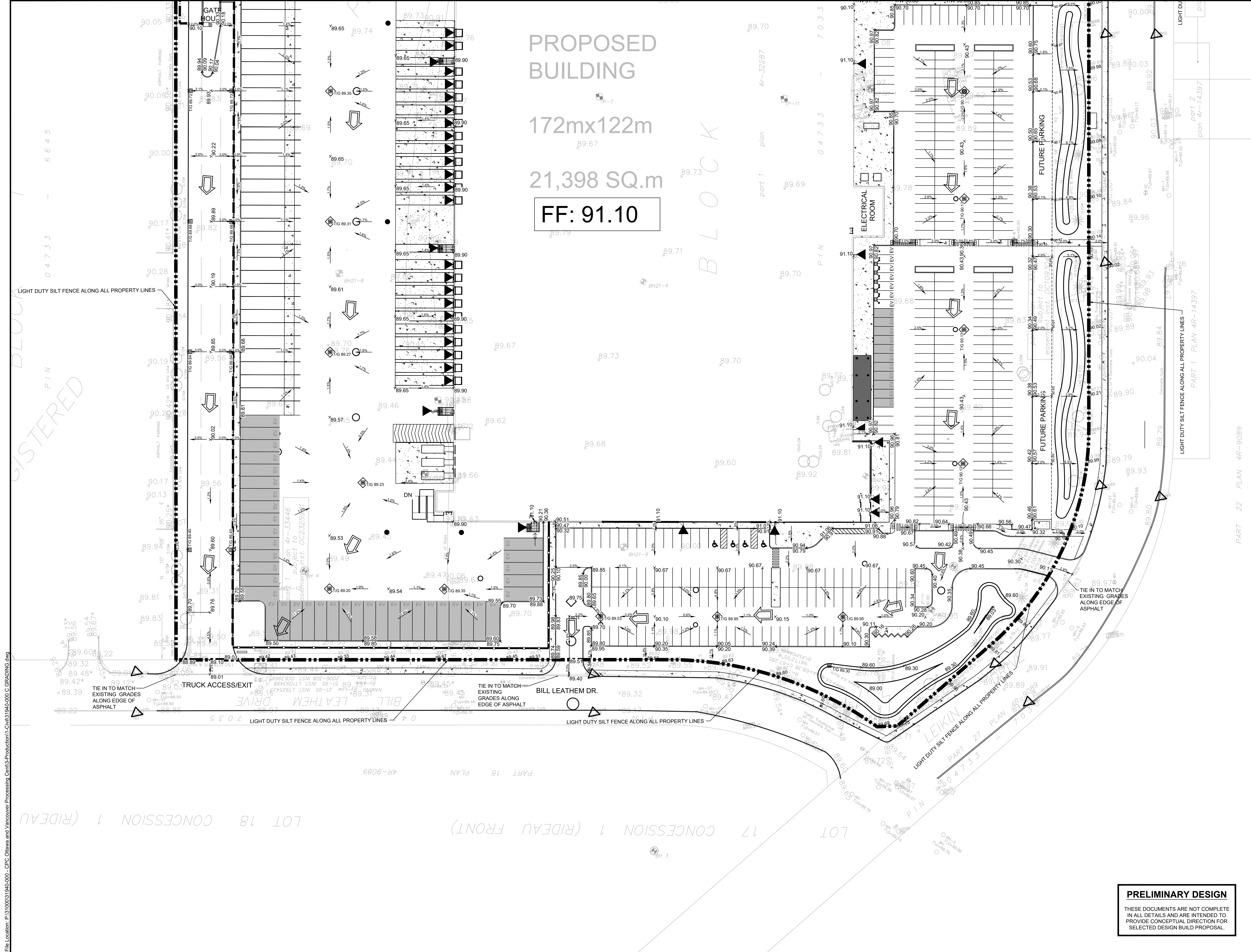
CHECKED: LJ

JLR #: 31940-000

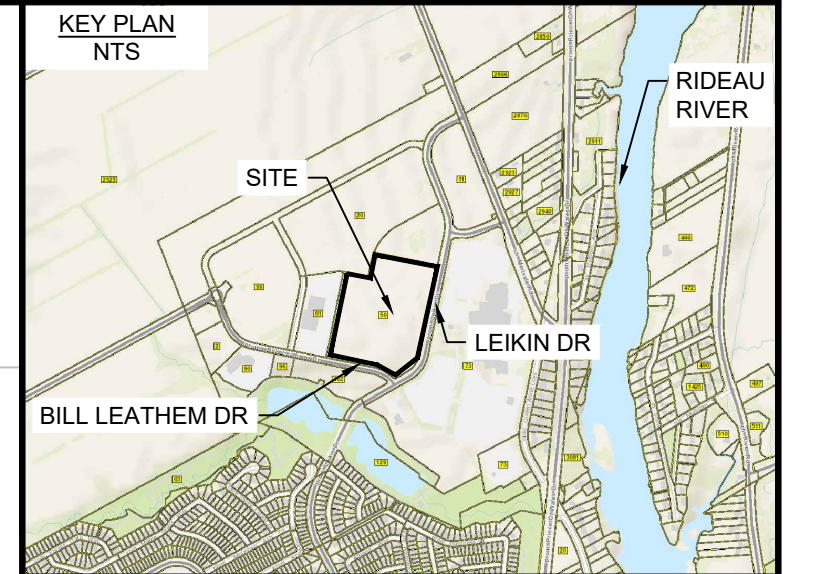
DRAWING #: C03

PRELIMINARY DESIGN

THESE DOCUMENTS ARE NOT COMPLETE IN ALL DETAILS AND ARE INTENDED TO PROVIDE CONCEPTUAL DIRECTION FOR SELECTED DESIGN BUILD PROPOSAL.



PROPOSED
BUILDING
172mx122m
21,398 SQ.m
FF: 91.10



LEGEND

- PROPERTY LINE
- EXISTING ELEVATION (m)
- EXISTING TOP OF CURB/WALL ELEVATION (m)
- PROPOSED ELEVATION
- SURFACE SLOPE
- FLOW DIRECTION
- △ FILTER CLOTH FOR EXISTING STRUCTURE
- IB IRON BAR
- VC EXISTING VALVE CHAMBER (WATERMAIN)
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING CATCH BASIN INLET
- EXISTING MONITORING WELL
- EXISTING MAINTENANCE HOLE
- 2.7m HIGH PROPOSED CHAIN LINK FENCE
- 2.7m HIGH PROPOSED ORNAMENTAL FENCE
- OVERLAND FLOW
- RETAINING WALL

No.	ISSUE / REVISION	DDMMYY
1	ISSUED FOR SITE PLAN CONTROL	26/06/23
0	ISSUED FOR SITE PLAN CONTROL	16/06/23

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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 1:500



PROFESSIONAL STAMP

PROJECT NORTH

PROJECT:
**CANADA POST CORPORATION
OTTAWA PROCESSING CENTRE**

50 LEIKIN DRIVE
OTTAWA, ONTARIO

DRAWING:
**GRADING, EROSION AND
SEDIMENT CONTROL PLAN**

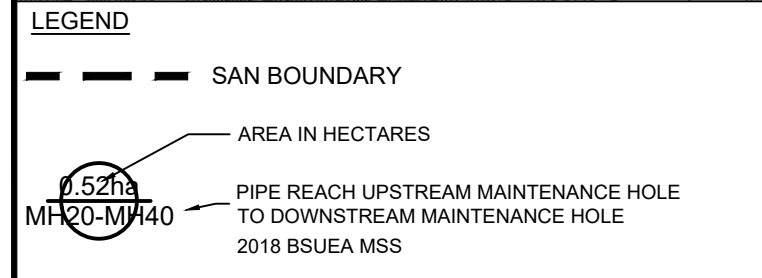
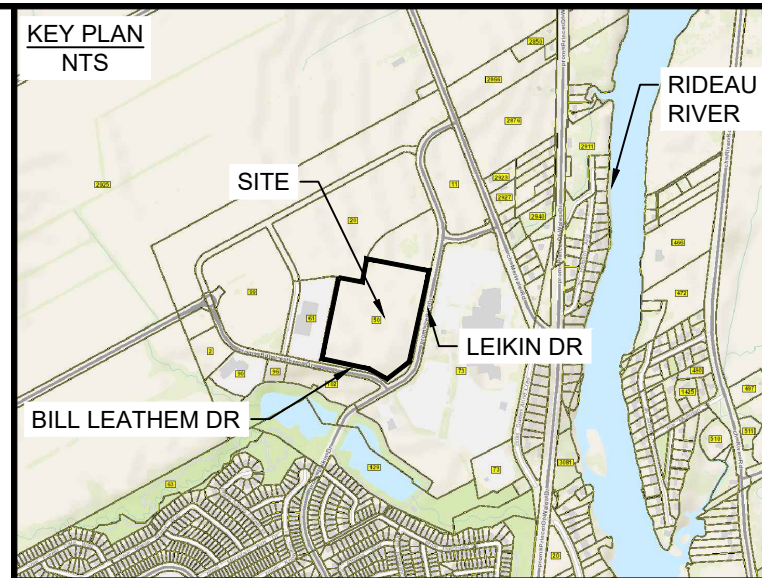
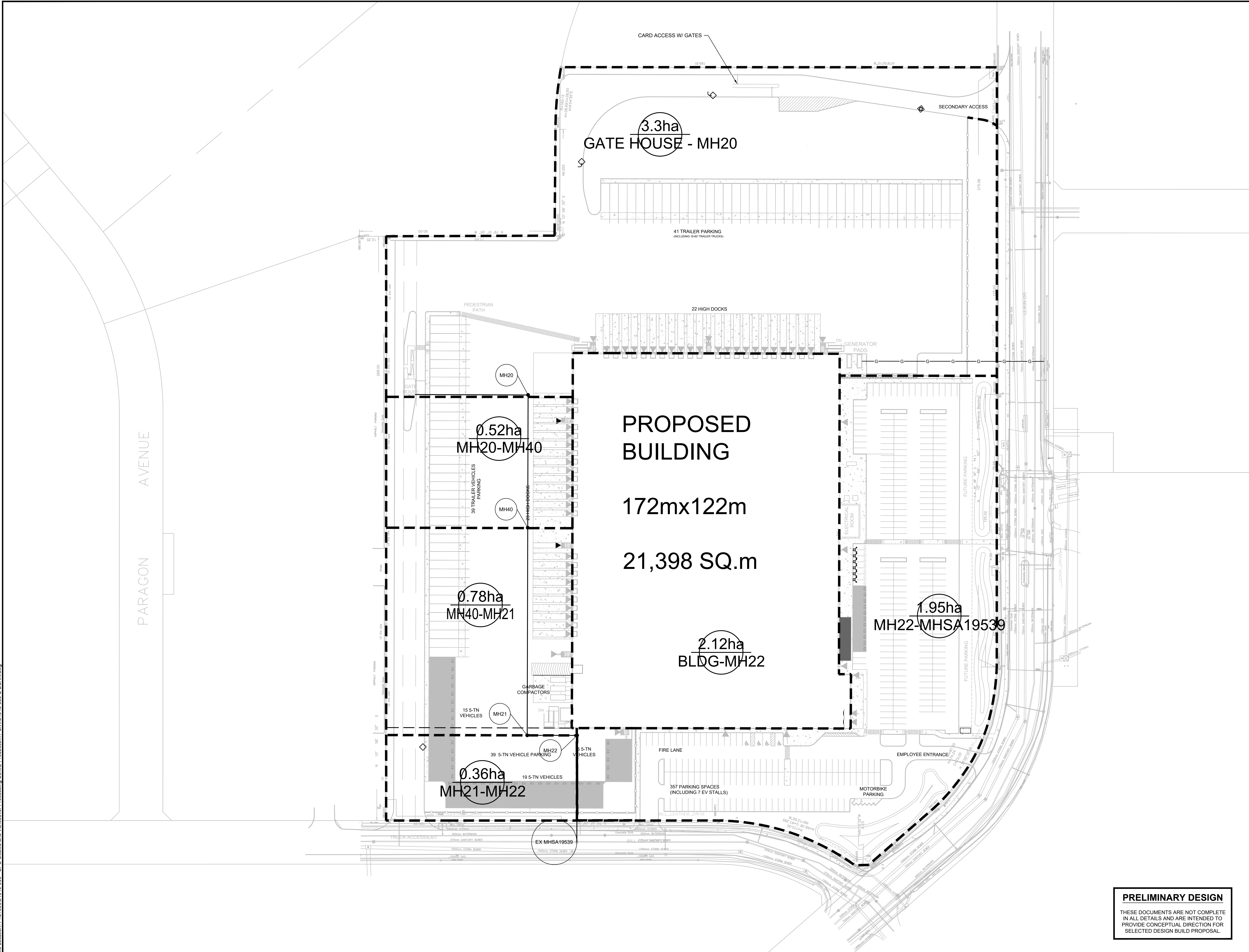
DESIGN: AW
DRAWN: NQ/KT
CHECKED: LJ
JLR #: 31940-000

DRAWING #:
C03.1

PRELIMINARY DESIGN

THESE DOCUMENTS ARE NOT COMPLETE IN ALL DETAILS AND ARE INTENDED TO PROVIDE CONCEPTUAL DIRECTION FOR SELECTED DESIGN BUILD PROPOSAL.

File Location: P:\131000\31940-000 - CFC Ottawa and Vancouver Processing Centres-Production\1-Civil\31940-000 C.DSAN.dwg

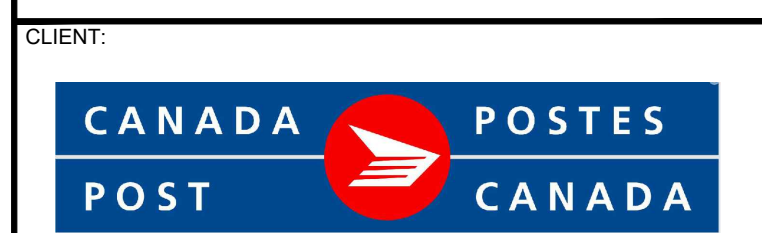


No.	ISSUE / REVISION	DDMMYY
1	ISSUED FOR SITE PLAN CONTROL	28/06/23
0	ISSUED FOR SITE PLAN CONTROL	16/06/23

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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 1:750



CONSULTANT:
JLR J.L. Richards
 ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:
Colliers Project Leaders

PROFESSIONAL STAMP 	PROJECT NORTH
------------------------	-------------------

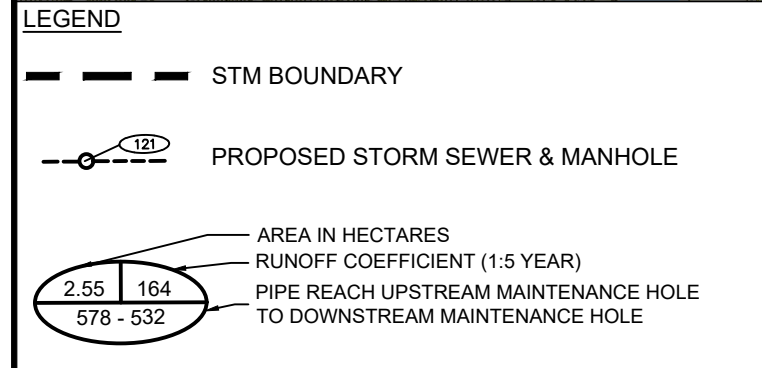
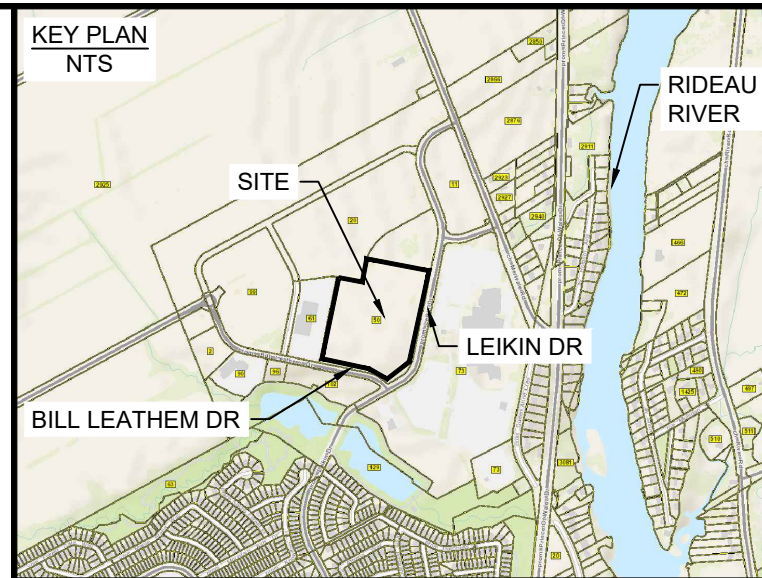
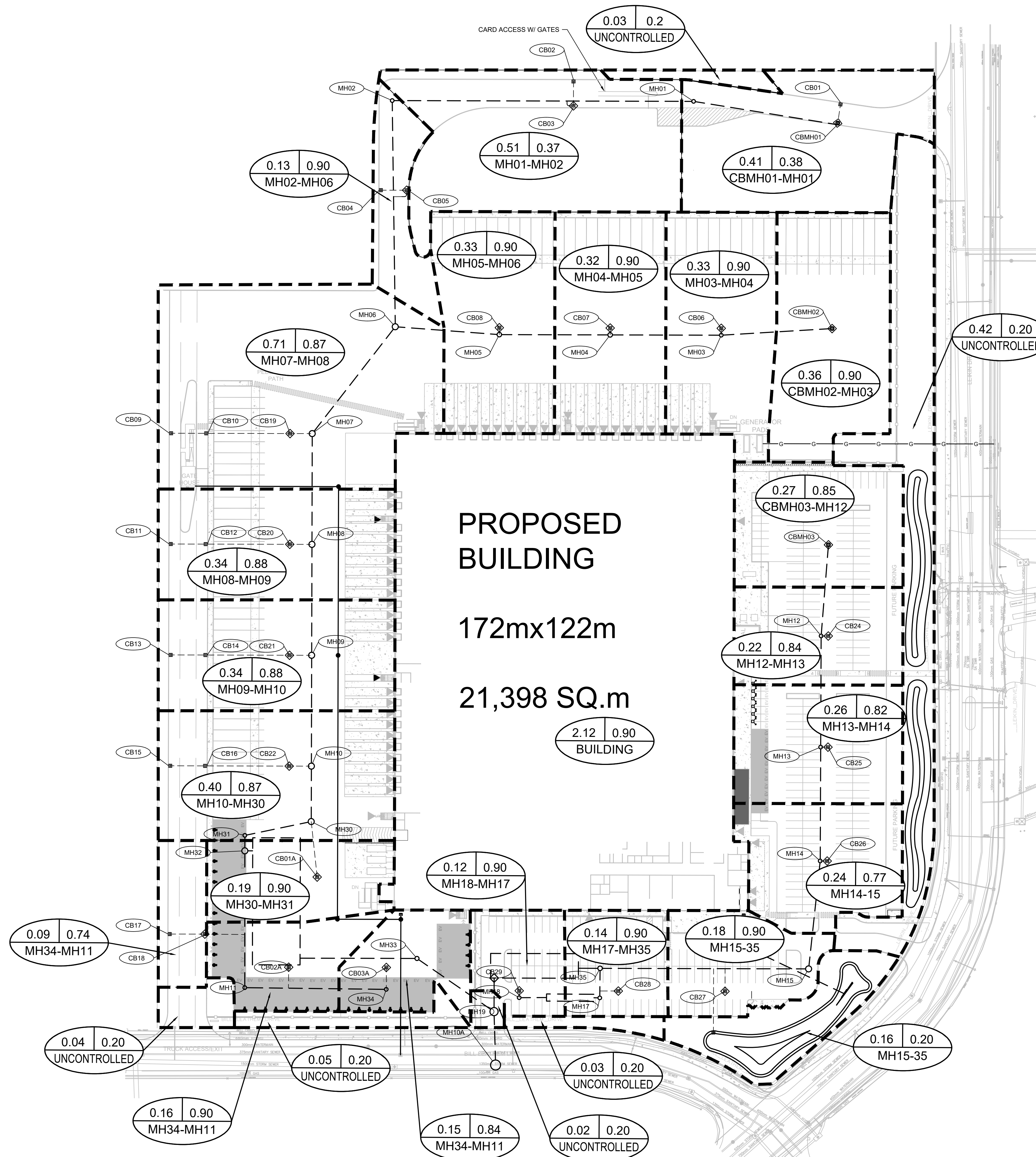
PROJECT:
CANADA POST CORPORATION
OTTAWA PROCESSING CENTRE
 50 LEIKIN DRIVE
 OTTAWA, ONTARIO

DRAWING:
SANITARY DRAINAGE PLAN

PRELIMINARY DESIGN
 THESE DOCUMENTS ARE NOT COMPLETE IN ALL DETAILS AND ARE INTENDED TO PROVIDE CONCEPTUAL DIRECTION FOR SELECTED DESIGN BUILD PROPOSAL.

DESIGN: AW	DRAWING #:
DRAWN: NQ	C04
CHECKED: LJ	
JLR #: 31940-000	

PLOT DATE: June 26, 2023 3:52:54 PM



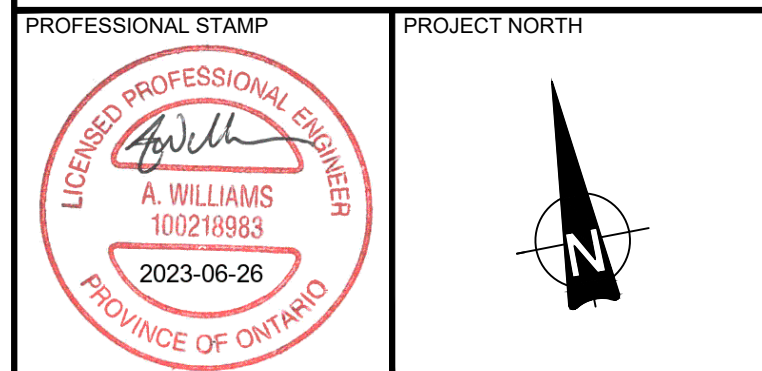
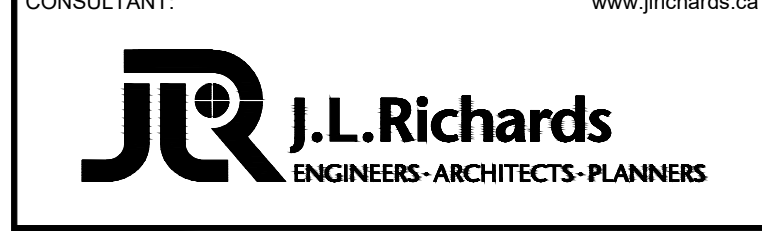
No.	ISSUE / REVISION	DDMMYY
1	ISSUED FOR SITE PLAN CONTROL	26/06/23
0	ISSUED FOR SITE PLAN CONTROL	16/06/23

No.	ISSUE / REVISION	DDMMYY
1	ISSUED FOR SITE PLAN CONTROL	26/06/23
0	ISSUED FOR SITE PLAN CONTROL	16/06/23

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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 1:750



PROJECT: CANADA POST CORPORATION
OTTAWA PROCESSING CENTRE
50 LEIKIN DRIVE
OTTAWA, ONTARIO

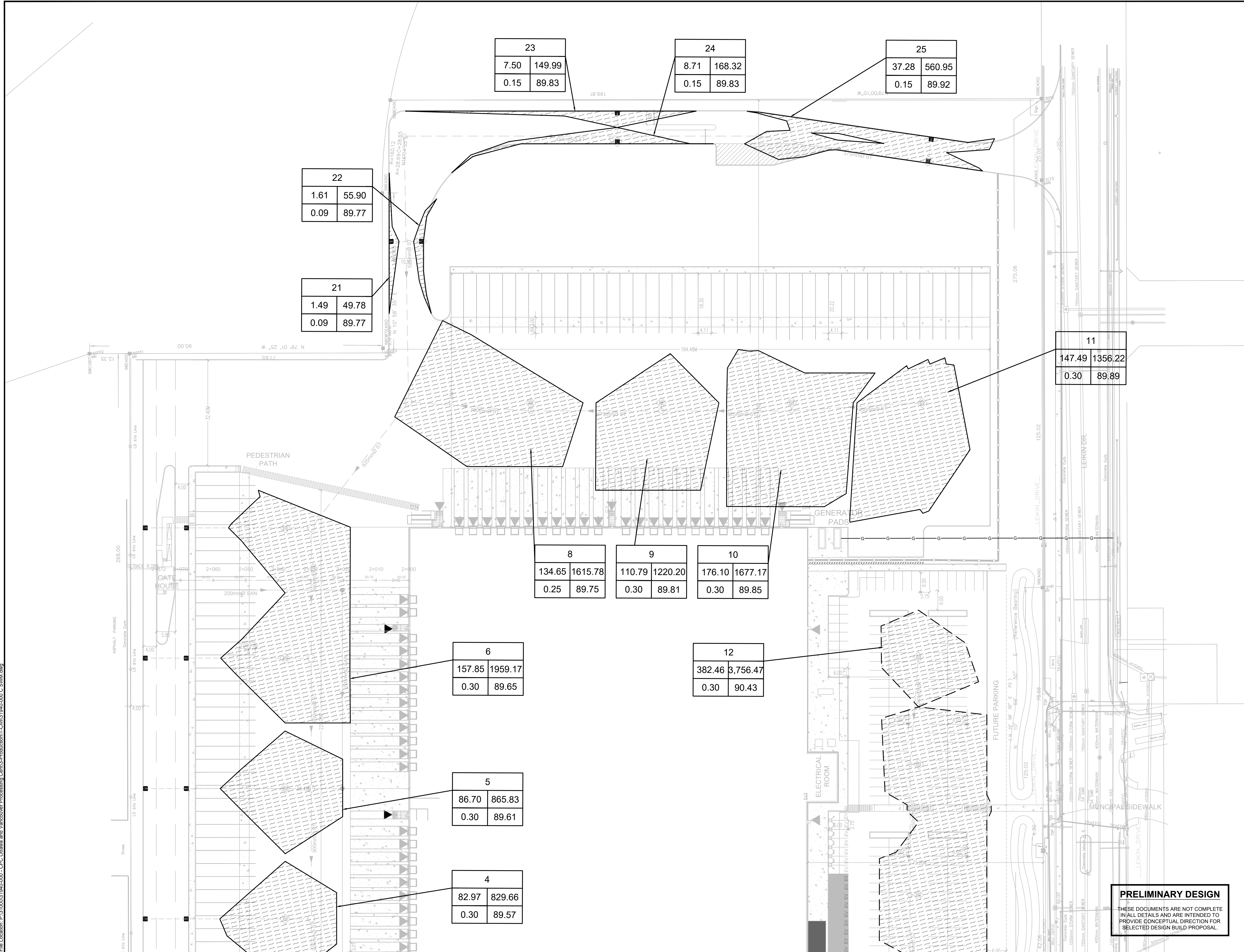
DRAWING: STORM DRAINAGE PLAN

PRELIMINARY DESIGN
THESE DOCUMENTS ARE NOT COMPLETE IN ALL DETAILS AND ARE INTENDED TO PROVIDE CONCEPTUAL DIRECTION FOR SELECTED DESIGN BUILD PROPOSAL.

DESIGN: AW	DRAWING #:
DRAWN: NQ	C05
CHECKED: LJ	
JLR #: 31940-000	

File Location: P:\131000\31940-000 - CFC Ottawa and Vancouver Processing Centre\Production\1-Civil\31940-000 C.DST.dwg

PLOT DATE: June 26, 2023 3:53:13 PM



23	
7.50	149.99
0.15	89.83

24	
8.71	168.32
0.15	89.83

25	
37.28	560.95
0.15	89.92

22	
1.61	55.90
0.09	89.77

21	
1.49	49.78
0.09	89.77

11	
147.49	1356.22
0.30	89.89

8	
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0.25	89.75

9	
110.79	1220.20
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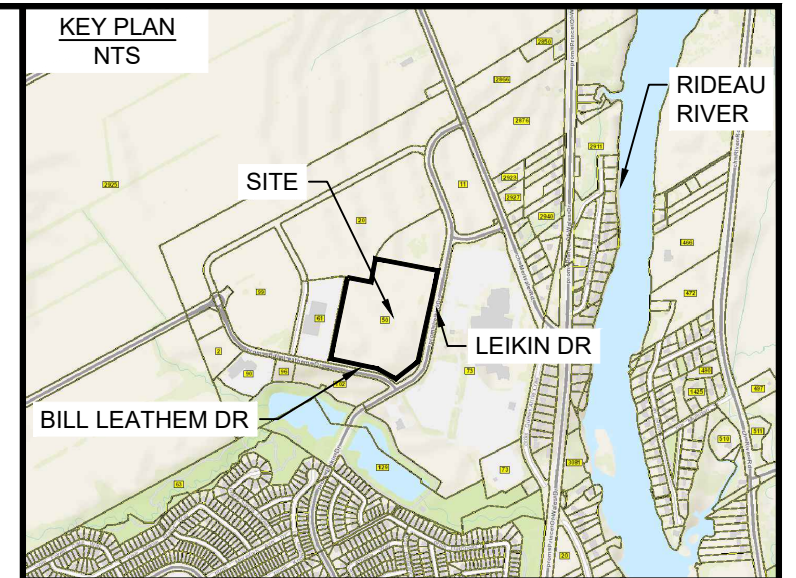
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0.30	89.85

6	
157.85	1959.17
0.30	89.65

12	
382.46	3,756.47
0.30	90.43

5	
86.70	865.83
0.30	89.61

4	
82.97	829.66
0.30	89.57



LEGEND

- MAXIMUM WATER LEVEL (STATIC)
- MAX. PONDING VOLUME (m³)
- AREA ID
- MAX. PONDING AREA (m²)
- MAX. WATER LEVEL (STATIC)
- PONDING DEPTH (STATIC)

26	
4.90	111.46
0.13	97.20

1	ISSUED FOR SITE PLAN CONTROL	26/06/23
0	ISSUED FOR SITE PLAN CONTROL	16/06/23
No.	ISSUE / REVISION	DDMMYY

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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 1:500



CLIENT: J.L. Richards ENGINEERS-ARCHITECTS-PLANNERS



PROFESSIONAL STAMP: A. WILLIAMS, LICENSED PROFESSIONAL ENGINEER, 100218963, 2023-06-26, PROVINCE OF ONTARIO.

PROJECT NORTH:

PROJECT: CANADA POST CORPORATION OTTAWA PROCESSING CENTRE
50 LEIKIN DRIVE OTTAWA, ONTARIO

DRAWING: STORM DRAINAGE AND PONDING PLAN

DESIGN: AW	DRAWING #:
DRAWN: NQ/KT	C06
CHECKED: LJ	
JLR #: 31940-000	

PRELIMINARY DESIGN
THESE DOCUMENTS ARE NOT COMPLETE IN ALL DETAILS AND ARE INTENDED TO PROVIDE CONCEPTUAL DIRECTION FOR SELECTED DESIGN BUILD PROPOSAL.

134.65	1615.78	110.79	1220.20	176.10	1677.17
0.25	89.75	0.30	89.81	0.30	89.85

6	157.85	1959.17
0.30	89.65	

12	382.46	3,756.47
0.30	90.43	

5	86.70	865.83
0.30	89.61	

4	82.97	829.66
0.30	89.57	

3	45.84	592.20
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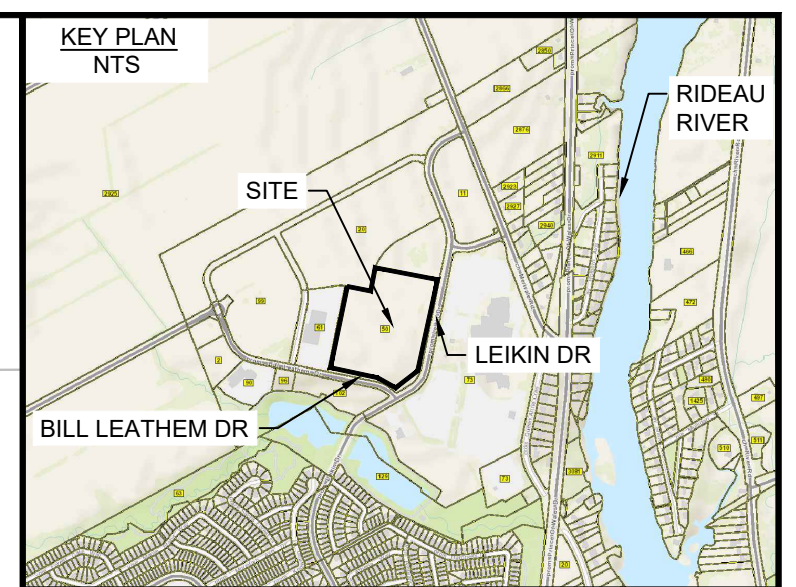
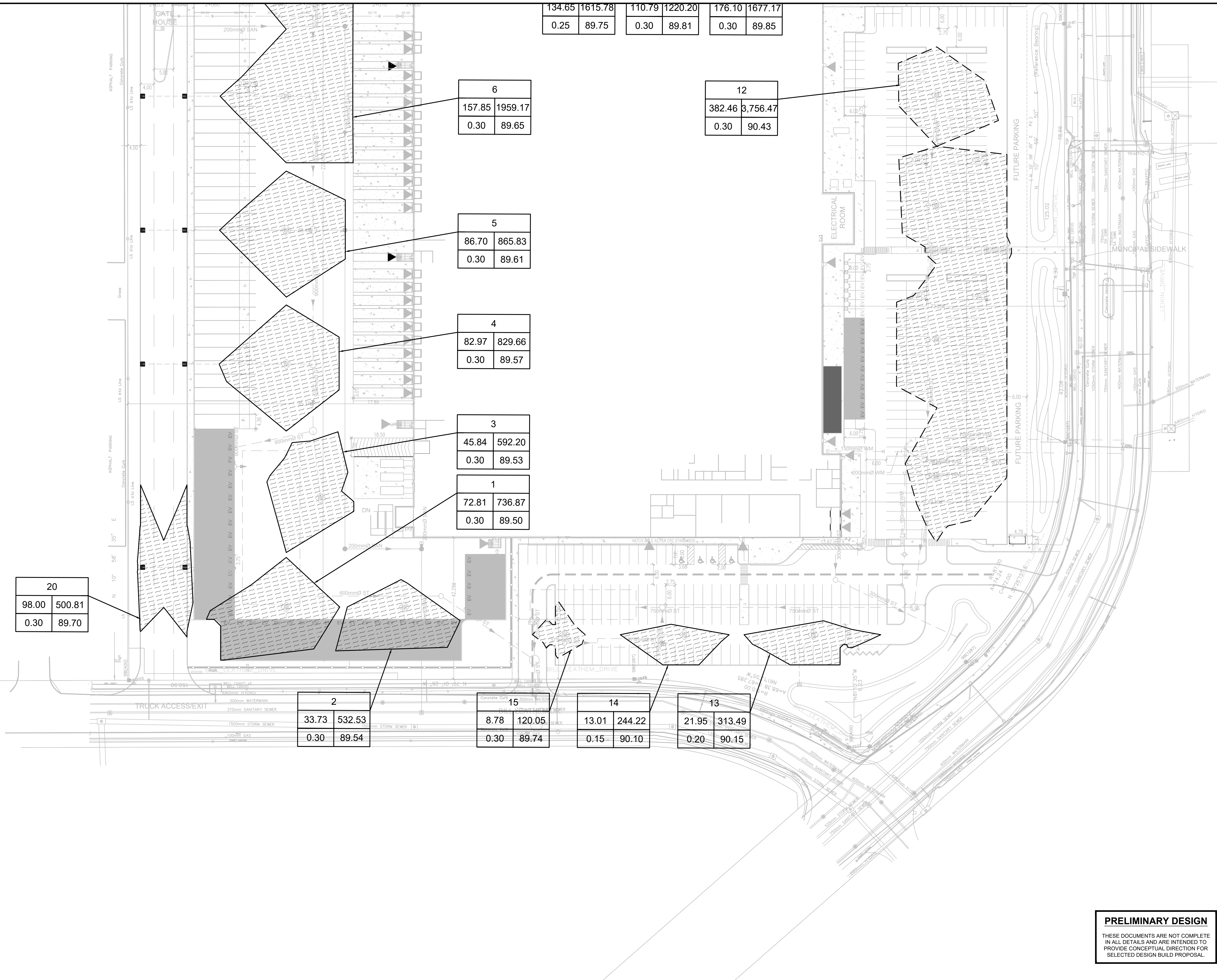
20	98.00	500.81
0.30	89.70	

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0.30	89.54	

15	8.78	120.05
0.30	89.74	

14	13.01	244.22
0.15	90.10	

13	21.95	313.49
0.20	90.15	



LEGEND

- MAXIMUM WATER LEVEL (STATIC)
- MAX. PONDING VOLUME (m³)
- AREA ID
- MAX. PONDING AREA (m²)
- MAX. WATER LEVEL (STATIC)
- PONDING DEPTH (STATIC)

26	4.90	111.46	0.13	97.20
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1	ISSUED FOR SITE PLAN CONTROL	26/06/23
0	ISSUED FOR SITE PLAN CONTROL	16/06/23
No.	ISSUE / REVISION	DD/MM/YY

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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 1:500



PROFESSIONAL STAMP: A. WILLIAMS, 100219953, 2023-06-26, PROVINCE OF ONTARIO

PROJECT NORTH: [North Arrow]

PROJECT: CANADA POST CORPORATION
OTTAWA PROCESSING CENTRE
50 LEIKIN DRIVE OTTAWA, ONTARIO

DRAWING: STORM DRAINAGE AND PONDING PLAN

DESIGN: AW	DRAWN: NQ/KT	CHECKED: LJ	JLR #: 31940-000
DRAWING #:			C06.1

PRELIMINARY DESIGN

THESE DOCUMENTS ARE NOT COMPLETE IN ALL DETAILS AND ARE INTENDED TO PROVIDE CONCEPTUAL DIRECTION FOR SELECTED DESIGN BUILD PROPOSAL.

GENERAL CONSTRUCTION NOTES :

- 1. ALL MATERIAL (SANITARY, STORM & WATERMAIN) AND CONSTRUCTION METHODS TO BE IN ACCORDANCE WITH THE CURRENT CITY OF OTTAWA STANDARD DRAWINGS AND SPECIFICATIONS, AND ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS.
2. SERVICING DESIGN DRAWINGS TO BE READ IN CONJUNCTION WITH THE SITE SERVICING REPORT (JUNE 26, 2023) PREPARED BY J.L. RICHARDS & ASSOCIATES LIMITED (JLR 31940-000) AS WELL AS THE GEOTECHNICAL INVESTIGATION REPORTS PREPARED BY WSP (OESA02132) DATED DECEMBER 2, 2022 AND JUNE 13, 2023, RESPECTIVELY.
3. UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE TO THE CENTRELINE OF SEWER OR MAINTENANCE HOLE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATES FROM ALL UTILITY COMPANIES TO LOCATE EXISTING UTILITIES PRIOR TO EXCAVATION.
7. ALL CONNECTIONS TO EXISTING WATERMAIN TO BE COMPLETED BY CITY OF OTTAWA FORCES. CONTRACTOR TO PROVIDE EXCAVATION, BACKFILLING, COMPACTION AND REINSTATEMENT, IN ACCORDANCE WITH CURRENT CITY SPECIFICATIONS.
9. WATERMANS CROSSING BELOW OR OVER A SEWER SHALL BE IN ACCORDANCE WITH CITY STANDARD DRAWING W25 AND W25.2.
10. PROVIDE A MINIMUM OF 2.4m COVER ON ALL WATERMANS AND WATER SERVICES. OTHERWISE PROVIDE THERMAL INSULATION AS PER THE CITY STANDARD DRAWING W22 (IN SHALLOW TRENCHES) AND W23 (AT OPEN STRUCTURES).
11. WATERMAIN THRUST BLOCKS TO BE CONSTRUCTED PER CITY STANDARD DRAWINGS W25.3 AND W25.4. THRUST BLOCKS ARE REQUIRED AT ALL BENDS, TEES, PLUGS, DEAD END CAPS 150mm and 200mm, VALVES, REDUCERS, OR OTHER FITTINGS WHERE CHANGES OCCUR IN PIPE DIAMETER OR DIRECTION ALL IN ACCORDANCE WITH CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
12. 150mm AND 200mm WATER SERVICE LATERALS TO BE PVC DR-18. 19mm WATER SERVICE TO BE PEX. REFER TO WATERMAIN TABLES.
13. ALL WATER DISTRIBUTION INFRASTRUCTURE TO BE PROVIDED WITH CATHODIC CORROSION PROTECTION AS PER CITY STANDARD W40.
14. HYDRANTS SHALL BE INSTALLED AS PER CITY STANDARD DRAWING W19.
15. AT ALL CONNECTION POINTS, REINSTATE SURFACES TO EXISTING CONDITION OR BETTER.
17. SANITARY AND STORM SEWERS EQUAL TO OR LESS THAN 375mm DIA. SHALL BE PVC DR-35. STORM SEWERS GREATER THAN 375mm DIA. TO BE 100-D REINFORCED CONCRETE. SEWERS TO BE INSULATED WHERE MINIMUM COVERAGE OF 2.0m IS NOT ACHIEVED (REFER TO CITY STANDARD DRAWING S35).
18. ROOF DRAIN OUTLET TO VERNAL POND TO BE 300mm DIA. PVC DR-35
19. ADS STORMTECH TO PROVIDE DETAILED DESIGN OF THREE (3) UNDERGROUND STORMWATER CHAMBERS OR APPROVED EQUIVALENT.
20. SERVICES TO BE TERMINATED 1.0m FROM BUILDING WALL (TYPICAL).
21. ALL STORM & SANITARY MAINTENANCE HOLES C/W FRAME AND COVER AS PER CITY STANDARD DRAWINGS 24 AND 24.1. SANITARY AND STORM MAINTENANCE HOLES TO HAVE WATERTIGHT COVERS PER OPSD 401.030.
22. ALL CATCH BASIN MAINTENANCE HOLES C/W FRAME AND COVERS AS PER CITY STANDARD DRAWING 28.1.
23. ALL STREET CATCH BASINS TO BE 600X600mm PRECAST CONCRETE PER OPSD 705.010 C/W FRAME AND COVER AS PER CITY STANDARD DRAWING S19.
24. ALL CATCH BASIN LEADS TO BE PVC DR-35 INSTALLED WITH 1% GRADIENT MINIMUM, UNLESS SPECIFIED OTHERWISE ON THE DRAWINGS.
25. 6m SUBDRAIN STUBS, WRAPPED IN FILTER SOCK, TO BE INSTALLED ON EITHER SIDE OF EACH CATCH BASIN, APPROXIMATELY 300mm BELOW THE SUBGRADE LEVEL.
26. CONCRETE CURB TO BE BARRIER TYPE AS PER STANDARD DRAWING SC1.1.
27. CONCRETE SIDEWALKS AND WALKWAYS TO BE CONSTRUCTED AS PER CITY OF OTTAWA DETAIL SC2 (OR SC1.4) AND SC4.
28. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN BENCHMARK INFORMATION FOR THIS SITE.
29. EXCAVATION FOR THE INSTALLATION OF SERVICES ALONG OR IN PROXIMITY OF THE BUILDING OR A STRUCTURE IS TO BE CONTAINED WITHIN A TRENCH BOX WIDTH AND IS TO ENSURE NO CONFLICT WITH ANY FUTURE FOOTINGS.
30. MATCH EXISTING ELEVATIONS AT PROPERTY LIMITS. FOR ENTIRE SITE ENSURE POSITIVE DRAINAGE TOWARDS A SUITABLE OUTLET WHETHER INDICATED OR NOT.
31. ROAD STRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
32. PAVEMENT DESIGN TO BE IN ACCORDANCE WITH GEOTECHNICAL INVESTIGATION REPORT (DECEMBER 2022) PREPARED BY WSP (Project No. OESA02132):
- EMPLOYEE PARKING:
• 40mm ASPHALT SURFACE COURSE (HL-3)
• 60mm ASPHALT BASE COURSE (HL-8)
• 150mm BASE - GRANULAR 'A' (OPSS 1010)
• 350mm SUBBASE - GRANULAR 'B' TYPE II (OPSS 1010)
- 5-TONNE / TRAILER PARKING / ACCESS ROAD
• 40mm ASPHALT SURFACE COURSE (HL-3)
• 80mm ASPHALT BASE COURSE (HL-8)
• 150mm BASE - GRANULAR 'A' (OPSS 1010)
• 500mm SUBBASE - GRANULAR 'B' TYPE II (OPSS 1010)
- ASPHALT COMPACTION TO BE MIN. 96% MAXIMUM RELATIVE DENSITY. GRANULAR COMPACTION TO BE MIN. 100% SPMD.
37. THE CONTRACTOR SHALL PROVIDE ALL PAVEMENT MARKINGS AS SHOWN, INCLUDING HANDICAPPED PARKING SYMBOLS.
38. ALL GROUNDWATER PUMPED FROM THE SITE TO BE METERED AND A PERMIT TO TAKE WATER OBTAINED AS APPLICABLE.

CANADA POST CORPORATION - OTTAWA PROCESSING CENTRE
CATCH BASIN TABLE

Table with columns: Discharge Location, Structure ID Number, Structure Dimensions, T/G, Inlet (Pipe Dia. (mm), Invert), Outlet (Pipe Dia. (mm), Invert), 1:5 Yr Restricted Capture Rate (L/s), Head (M), ICD TYPE. Includes rows for various catch basins like Bill Leatham Dr, StormTech 1 (EAST), StormTech 2 (WEST), MH17, and DICB.

(1) 1:100 Yr Capture Rate (L/s)
(2) Restricted based on pre-development allowable release rate

EROSION AND SEDIMENTATION CONTROL SYSTEM (ESCS) REQUIREMENTS:

PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR IS REQUIRED TO CONSTRUCT AN EROSION AND SEDIMENTATION CONTROL SYSTEM (ESCS) ON-SITE (IN ADDITION TO THE PROPOSED MEASURES DEPICED ON THIS DRAWING) TO CONVEY RAINWATER AND/OR PUMPED WATER PRIOR TO ITS DISCHARGE TO THE SURFACE AND/OR TO ANY NATURAL WATER COURSE AND/OR TO ANY EXISTING SEWER SYSTEM. THE CONTRACTOR SHALL CONSTRUCT THE ESCS IN SUCH A WAY AS TO ENSURE THAT THE QUALITY OF THE DISCHARGED PUMP WATER DOES NOT EXCEED THE MORE STRINGENT CRITERIA OF EITHER THE ALLOWABLE TSS CONCENTRATION LIMITS SPECIFIED IN THE PTTW OR 25 MG/L AT ANY TIME.

THE CONTRACTOR SHALL CONSTRUCT AN ESCS TO ACHIEVE THE TURBIDITY AND TSS REMOVAL CRITERIA, REGULARLY MONITOR AND MAINTAIN IT TO ENSURE ONGOING COMPLIANCE. THE CONTRACTOR SHALL TAKE WATER SAMPLES AT THE OUTLET OF THE ESCS TO ENSURE THAT THE TURBIDITY AND TSS REMOVAL CRITERIA ARE MET IN ACCORDANCE WITH CITY OF OTTAWA S.P. NO. F_1004. IF THE ANALYTICAL RESULTS ARE LESS THAN PRESCRIBED CRITERIA, THEN THE CONTRACTOR MAY BEGIN DEWATERING PROVIDED THAT THE QUALITY OF THE WATER REMAINS SUBSTANTIALLY THE SAME AS THE INITIAL MEASURED SAMPLE. SUBSEQUENT WATER SAMPLES SHALL ALSO BE COLLECTED IN ACCORDANCE WITH CITY OF OTTAWA S.P. NO. F_1004.

NOTES:

- 1. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO WORK AND MAINTAINED DURING THE WORK PHASE BY THE GENERAL CONTRACTOR TO PREVENT ENTRY OF SEDIMENT INTO THE RECEIVING STREAM. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSPECTED DAILY BY THE GENERAL CONTRACTOR TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY AND ARE BEING MAINTAINED AND/OR UPGRADED AS REQUIRED. IF THE SEDIMENT AND EROSION CONTROL MEASURES ARE NOT FUNCTIONING PROPERLY, NO FURTHER WORK SHALL OCCUR UNTIL THE PROBLEM HAS BEEN ADDRESSED AND RECTIFIED.
2. ALL MATERIALS AND EQUIPMENT USED FOR THE PURPOSE OF SITE PREPARATION AND PROJECT COMPLETION SHALL BE OPERATED AND STORED IN A MANNER THAT PREVENTS ANY DELETERIOUS SUBSTANCES (I.E. PETROLEUM PRODUCTS, SILT, ETC.) FROM ENTERING THE RECEIVING STREAM.
3. VEHICLE AND EQUIPMENT RE-FUELLING AND MAINTENANCE SHALL BE CONDUCTED AWAY FROM DRAINAGE CHANNELS IN A CONTROLLED MANNER TO PREVENT FUEL SPILLAGE.
4. ANY PART OF EQUIPMENT ENTERING DRAINAGE CHANNELS SHALL BE FREE OF FLUID LEAKS AND EXTERNALLY CLEANED/DEGREASED TO PREVENT ANY DELETERIOUS SUBSTANCES FROM ENTERING THE WATER.
5. STOCKPILED MATERIALS SHOULD BE STORED AND STABILIZED AWAY FROM THE WATER.
6. SEDIMENT AND EROSION CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY SITE INSPECTOR, ENGINEER AND/OR THE LOCAL CONSERVATION AUTHORITY.
7. INSPECTIONS AND REPAIR OF SEDIMENT AND EROSION CONTROLS WILL BE CONDUCTED AS SOON AS POSSIBLE FOLLOWING ANY RAIN EVENTS.
8. WORKS WILL NOT BE CONSIDERED COMPLETE UNTIL ALL SEDIMENT CONTROLS ARE REMOVED.
9. STRAW BALE BARRIERS OR EQUIVALENT SHOULD BE PLACED AT WATER DISCHARGE POINTS TO PREVENT EROSION AND SEDIMENT RELEASE.
10. ONLY MATERIAL FREE OF FINE PARTICULATE MATTER SHOULD BE PLACED IN THE WATER.
11. ALL MATERIALS AND EQUIPMENT USED FOR THE PURPOSE OF SITE PREPARATION AND PROJECT COMPLETION SHOULD BE OPERATED AND STORED IN A MANNER THAT PREVENTS ANY DELETERIOUS SUBSTANCE FROM ENTERING THE WATER.
12. ALL EQUIPMENT OPERATING NEAR THE WATER SHOULD BE EQUIPPED WITH A SPILL KIT.
13. ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO THE WATERCOURSE SHOULD BE IMMEDIATELY REPORTED TO THE ENGINEER. APPROPRIATE RESPONSE MEASURES, INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.
14. ALL SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED AND CONSTRUCTED PER THE CURRENT OPSS AND OPSD.
15. IF REQUIRED A MUD MAT IS TO BE BUILT AT THE SITE ENTRANCES TO PREVENT THE TRANSPORT OF SEDIMENT ONTO PAVED SURFACES.

PRELIMINARY DESIGN

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Table with 3 columns: No., ISSUE / REVISION, DDMMYY. Row 1: 1 ISSUED FOR SITE PLAN CONTROL 28/06/23. Row 2: 0 ISSUED FOR SITE PLAN CONTROL 16/06/23.

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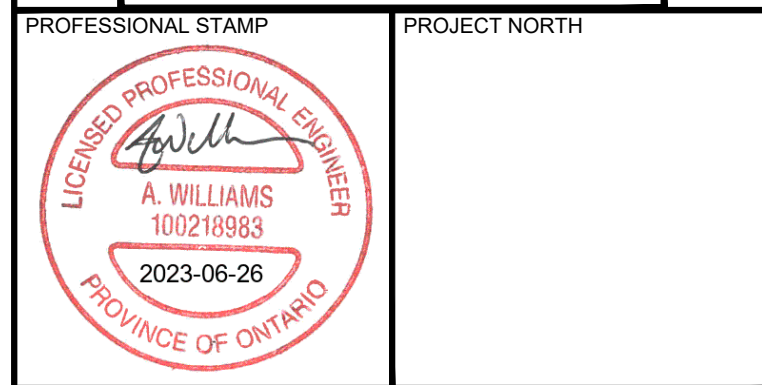
VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING. 0 25mm

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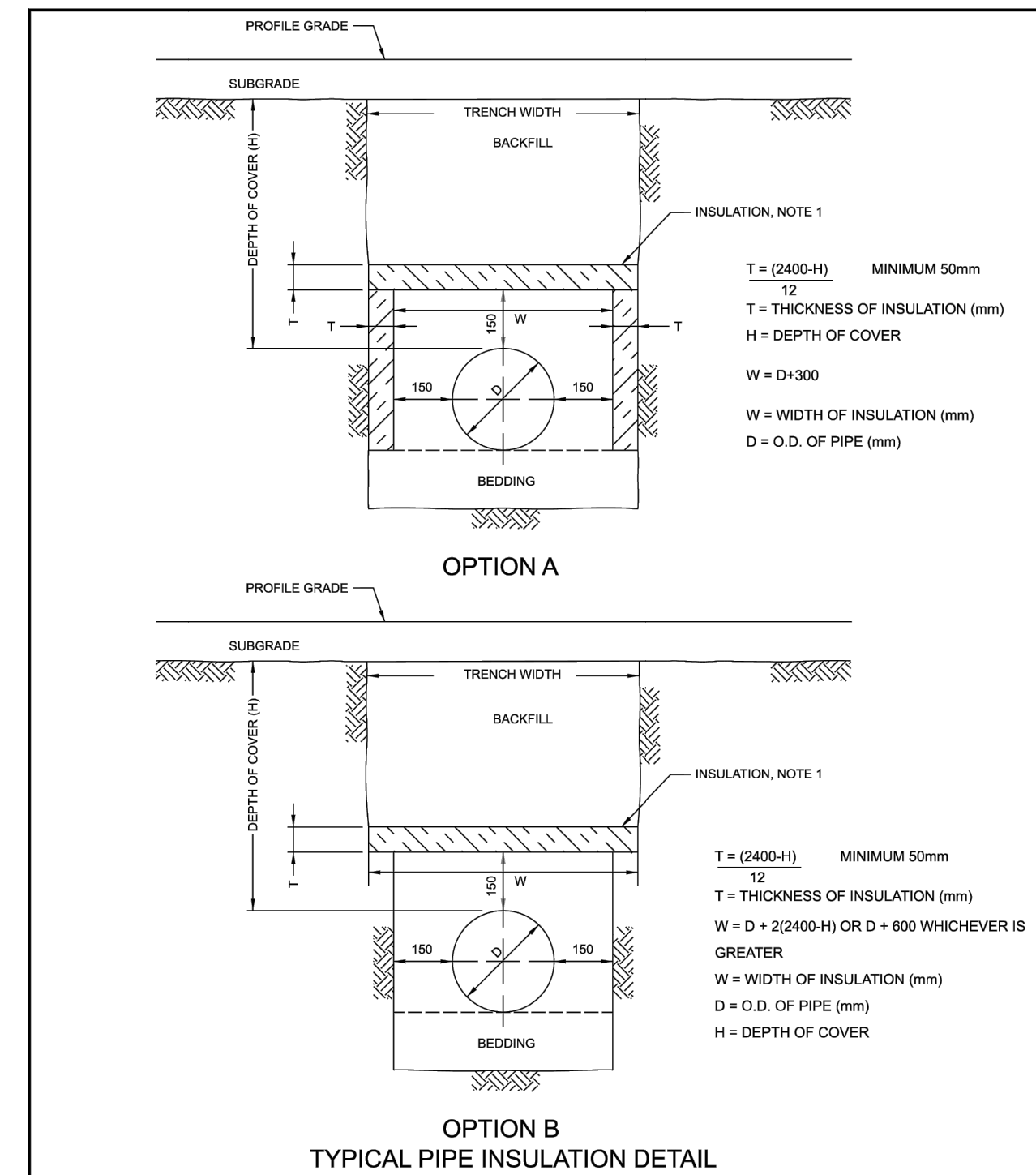
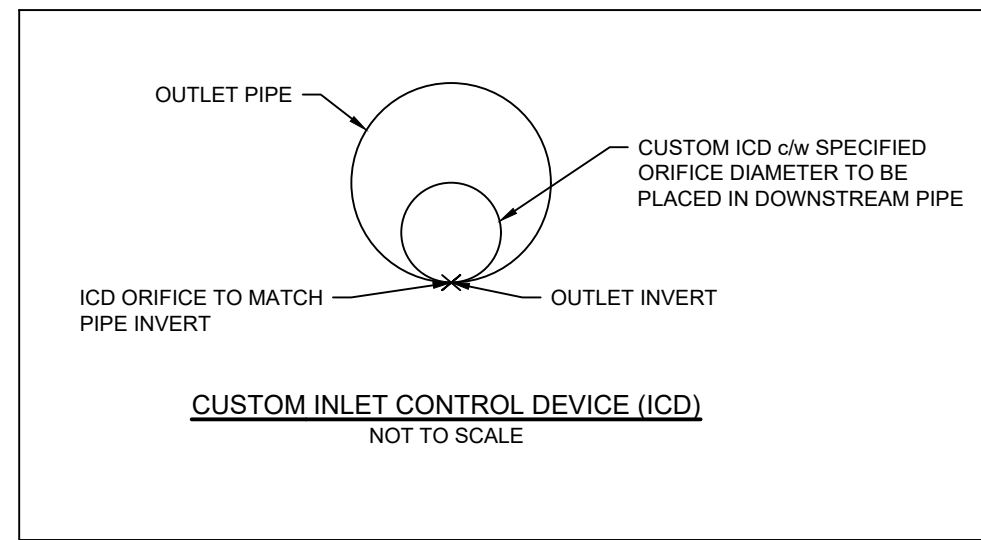
PROJECT: CANADA POST CORPORATION OTTAWA PROCESSING CENTRE
50 LEIKIN DRIVE OTTAWA, ONTARIO
DRAWING: GENERAL NOTES

Table with 2 columns: DESIGNER, DRAWN, CHECKED, JLR # and DRAWING #. Values: AW, NQ/KT, LJ, 31940-000 and C07

SIZE	STATION ALONG WM	DETAIL	FINISHED GRADE	TOP OF WM
200mmØ	0+000	CONNECTION TO EXISTING WM	89.89	87.49
	0+010		89.85	87.45
	0+016.01	VALVE AND BOX	89.94	87.54
	0+020		90.14	87.6
	0+030		90.64	87.7
	0+040		90.42	87.8
	0+050		90.31	87.91
	0+055.01	45° VERTICAL BEND (WM CROSSING UNDER STORM)	90.31	87.91
	0+056.79	45° VERTICAL BEND (WM CROSSING UNDER STORM)	90.27	87.02
	0+059.59	45° VERTICAL BEND (WM CROSSING UNDER STORM)	90.34	87.02
	0+060		90.36	87.02
	0+060.57	45° VERTICAL BEND (WM CROSSING UNDER STORM)	90.37	87.97
	0+064.73	CROSS	90.48	88.02
	0+070		90.62	88.22
0+071.14	REDUCER TO 150mm	90.64	88.24	
150mmØ	0+080		91.03	88.63
	0+089	CAP	91.08	88.68
200mmØ	1+000	CONNECTION TO EXISTING WM	89.89	87.49
	1+010		89.85	87.45
	1+016.01	VALVE AND BOX	89.96	87.56
	1+020		90.14	87.6
	1+030		90.64	87.7
	1+040		90.41	87.9
	1+050		90.37	87.91
	1+055.67	45° VERTICAL BEND (WM CROSSING UNDER STORM)	90.31	87.91
	1+056.65	45° VERTICAL BEND (WM CROSSING UNDER STORM)	90.33	87.04
	1+059.45	45° VERTICAL BEND (WM CROSSING UNDER STORM)	90.4	87.04
	1+060		90.42	87.04
	1+060.49	45° VERTICAL BEND (WM CROSSING UNDER STORM)	90.42	88.02
	1+062.38	45° HORZ BEND	90.47	88.02
	1+065.59	45° HORZ BEND	90.51	88.02
1+067.29	CROSS	90.48	88.02	
1+070		90.45	88.05	
1+076.1	REDUCER TO 150mm	90.67	88.1	
150mmØ	1+080		90.53	88.13
	1+090		90.66	88.26
	1+092.35	VALVE AND BOX	90.72	88.3
1+098	HYDRANT	90.71	88.31	

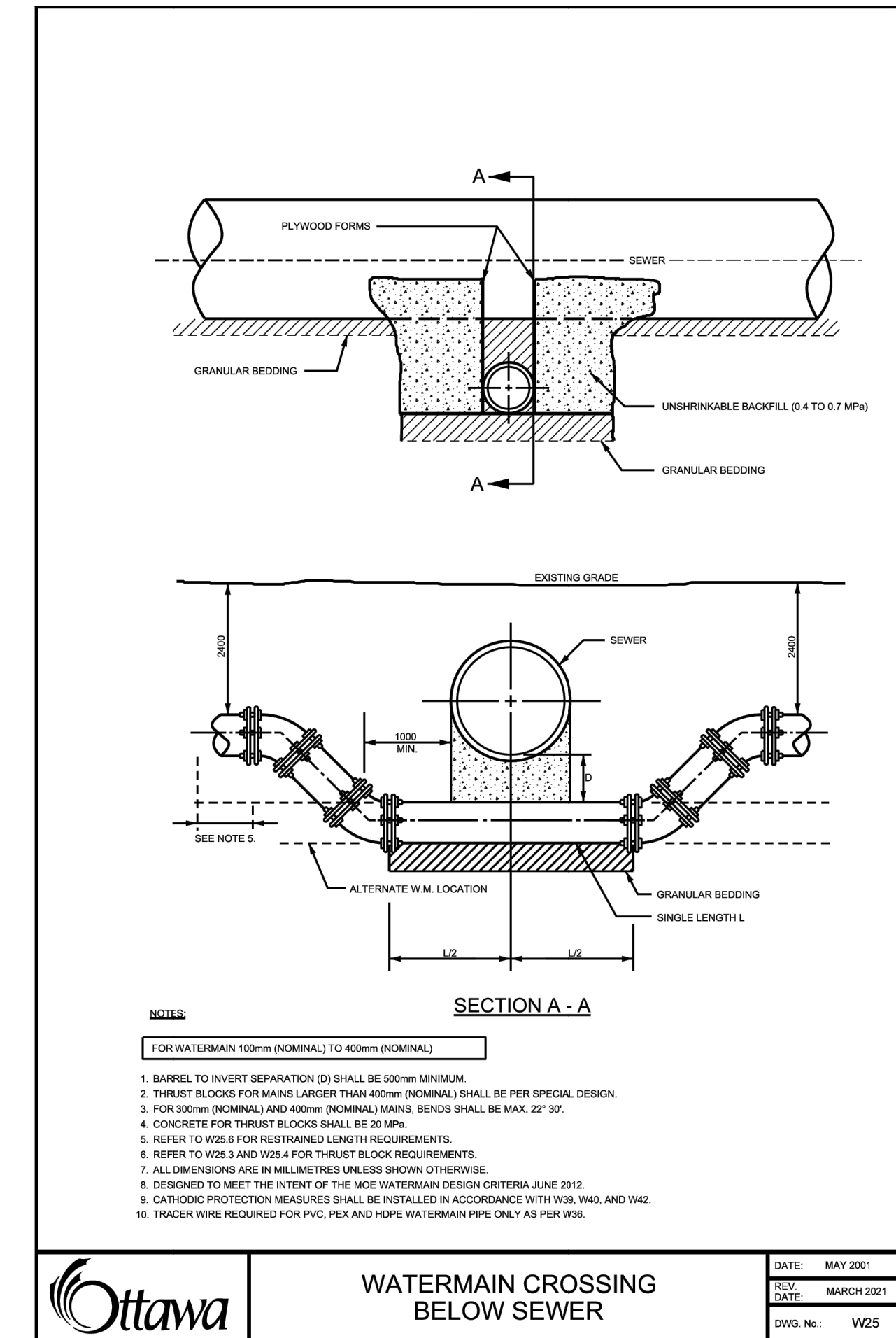
WATERMAIN TABLE
PEX - STA 2+000 TO 2+072

SIZE	STATION ALONG WM	DETAIL	FINISHED GRADE	TOP OF WM
190mmØ	2+000	CONNECTION AT BUILDING	89.9	87.5
	2+003.95	VALVE AND BOX	89.85	87.45
	2+010		89.76	87.36
	2+020		89.65	87.25
	2+030	WATER SERVICE CROSSING OVER STORM C/W INSULATION	89.67	87.86
	2+040		89.66	87.26
	2+050		89.81	87.41
	2+060		89.96	87.56
2+070		90.09	87.69	
2+072	CONNECTION AT GATEHOUSE	90.27	87.87	



- NOTES:
1. THE INSULATION MATERIAL SHALL BE EXTRUDED POLYSTYRENE ACCORDING TO MW-19.15 WITH A MINIMUM COMPRESSIVE STRENGTH OF 275 KPA.
 2. MINIMUM INSULATION THICKNESS SHALL BE 50MM.
 3. JOINTS SHALL BE STAGGERED FOR MULTIPLE INSULATION SHEETS.
 4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

Ottawa INSULATION FOR SHALLOW SEWERS
DATE: MARCH 2023
REV. DATE: ---
DWG. No.: S35



Ottawa WATERMAIN CROSSING BELOW SEWER
DATE: MAY 2021
REV. DATE: MARCH 2021
DWG. No.: W25

CROSSINGS	
CROSSING 'A':	19mmØ WATER SERVICE TO CROSS OVER 900mmØ STORM SEWER. BOTTOM OF WM = 87.86 m ST SEWER OBVERT = 87.49 m CLEARANCE = 0.37 m
CROSSING 'B':	200mmØ SANITARY SEWER TO CROSS OVER 900mmØ STORM SEWER. SAN SEWER INVERT = 88.04 m ST SEWER OBVERT = 87.48 m CLEARANCE = 0.56 m
CROSSING 'C':	200mmØ SANITARY SEWER TO CROSS OVER 600mmØ STORM SEWER. SAN SEWER INVERT = 87.23 m ST SEWER OBVERT = 86.89 m CLEARANCE = 0.34 m
CROSSING 'D':	200mmØ WATERMAIN TO CROSS UNDER 525mmØ STORM SEWER. TOP OF WM = 87.02 m ST SEWER INVERT = 87.61 m CLEARANCE = 0.59 m
CROSSING 'E':	200mmØ WATERMAIN TO CROSS UNDER 525mmØ STORM SEWER. TOP OF WM = 87.04 m ST SEWER INVERT = 87.63 m CLEARANCE = 0.59 m
CROSSING 'F':	300mmØ STORM SEWER TO CROSS OVER 750mmØ STORM SEWER. 300mmØ ST SEWER INVERT = 89.28 m 750 mmØ ST SEWER OBVERT = 88.06 m CLEARANCE = 1.22 m

PRELIMINARY DESIGN
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1	ISSUED FOR SITE PLAN CONTROL	28/06/23
0	ISSUED FOR SITE PLAN CONTROL	16/06/23
No.	ISSUE / REVISION	DDMMYY
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PROFESSIONAL STAMP	PROJECT NORTH	
PROJECT:		
CANADA POST CORPORATION OTTAWA PROCESSING CENTRE 50 LEIKIN DRIVE OTTAWA, ONTARIO		
DRAWING:		
GENERAL NOTES		
DESIGN: AW	DRAWING #:	
DRAWN: NQ/KT	C08	
CHECKED: LJ	DRAWING #:	
JLR #: 31940-000	DRAWING #:	