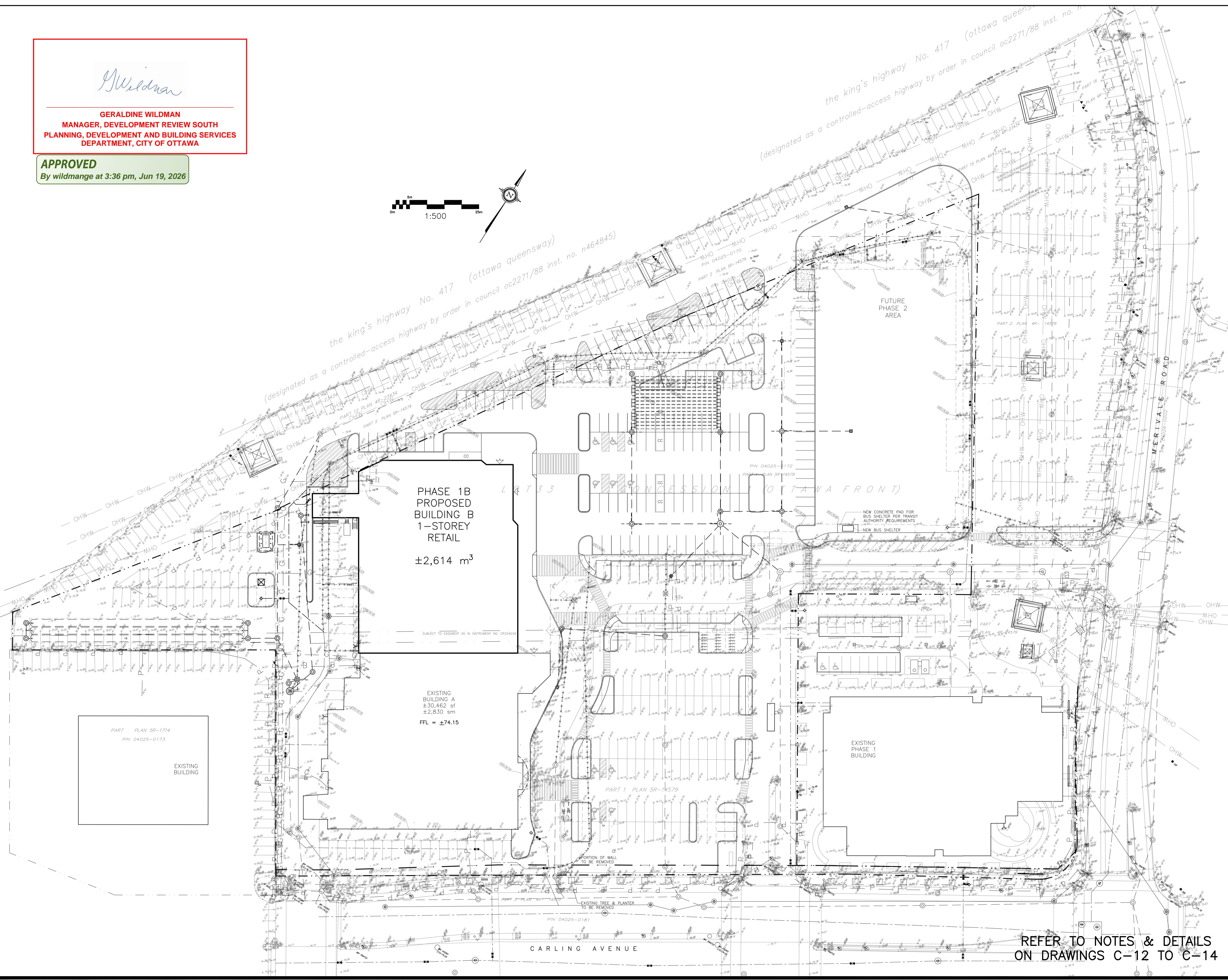
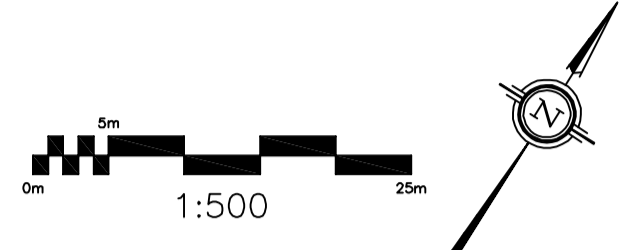


*G. Wildman*

**GERALDINE WILDMAN**  
 MANAGER, DEVELOPMENT REVIEW SOUTH  
 PLANNING, DEVELOPMENT AND BUILDING SERVICES  
 DEPARTMENT, CITY OF OTTAWA

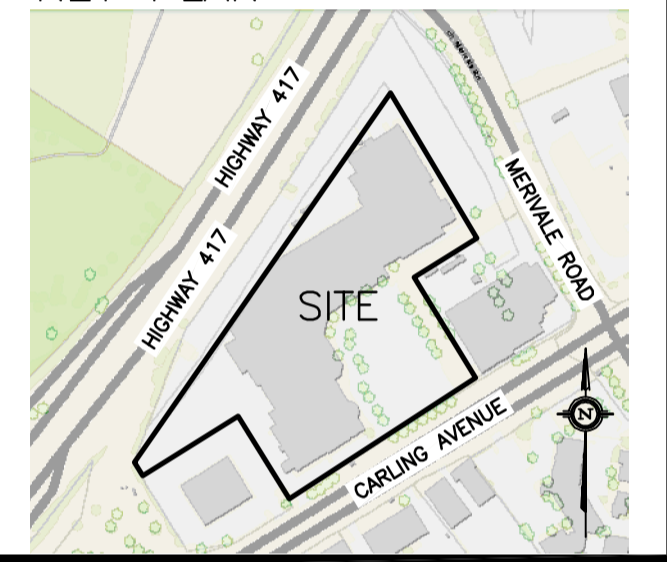
**APPROVED**  
 By wildmange at 3:36 pm, Jun 19, 2026



**LEGEND**

- FFL FIRST FLOOR ELEVATION
- TOF TOP OF FOUNDATION
- BFL BASEMENT FLOOR ELEVATION
- USF UNDERSIDE OF FOOTING
- — — — — PROPERTY LINE
- CB CATCH BASIN
- MH STORM MANHOLE
- CB/MH CATCH BASIN/MANHOLE
- MH SANITARY MANHOLE

**KEY PLAN**



No.	DATE	REVISION
5	JAN 23-25	REVISED PER CITY COMMENTS 2
4	NOV 7-25	ISSUED FOR ISSUED FOR TENANT REVIEW 1 (50%)
3	OCT 30-25	RE-ISSUED FOR SITE PLAN APPROVAL
2	MAY 9-25	ISSUED FOR SITE PLAN APPROVAL
1	MAR 3-25	ISSUED FOR COORDINATION

**D. B. GRAY ENGINEERING INC.**  
 Stormwater Management - Grading & Drainage - Storm & Sanitary Sewers - Watermain  
 700 Long Point Circle 613-425-8044  
 Ottawa, Ontario d.gray@dbgrayengineering.com

Project  
**PROPOSED REDEVELOPMENT OF WESTGATE SC PHASE 1B**  
 1309 CARLING AVENUE  
 OTTAWA, ONTARIO

Drawing Title  
**OVERALL SITE PLAN**

Engineer's Seal  
  
 NOT VALID UNLESS SIGNED & DATED

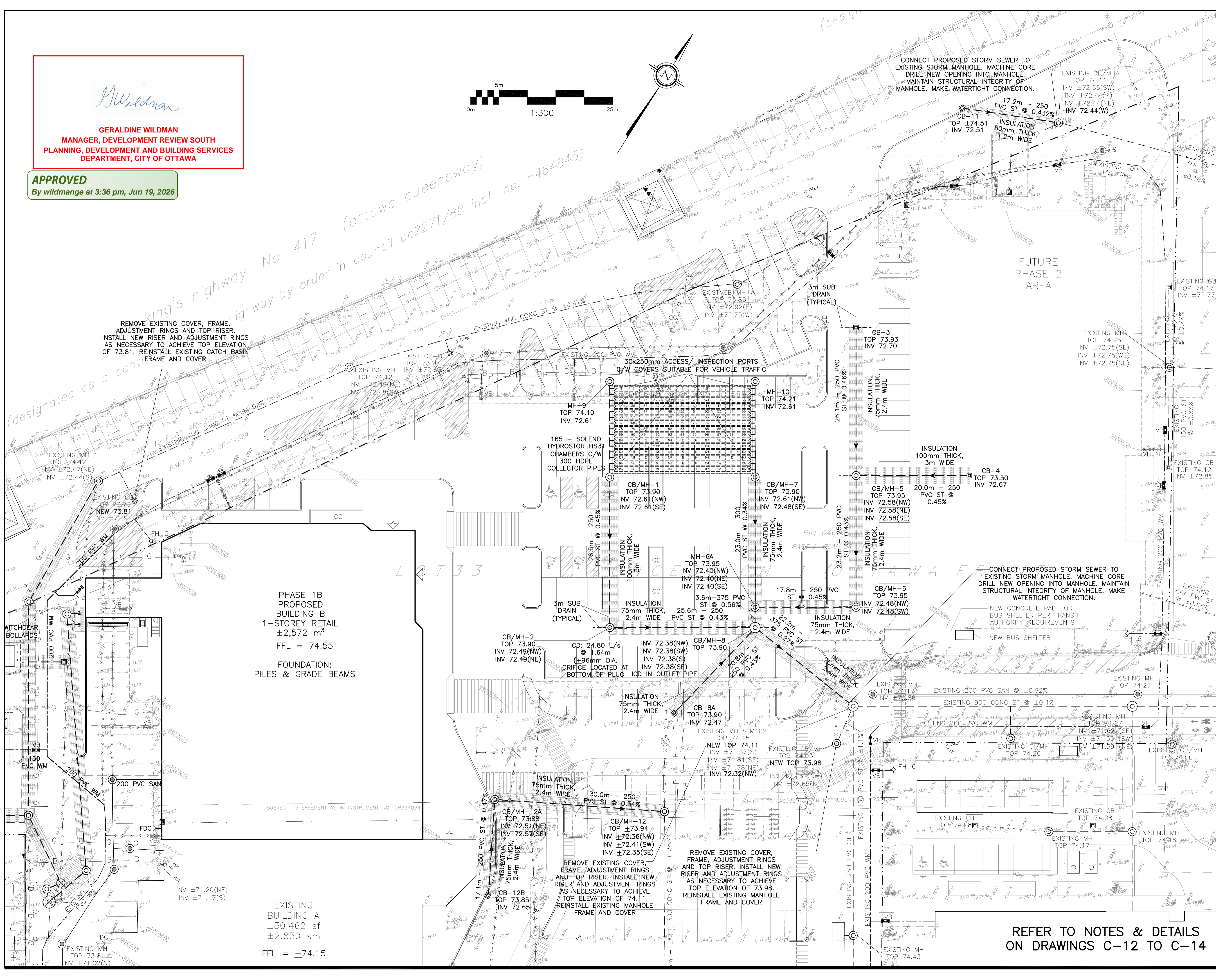
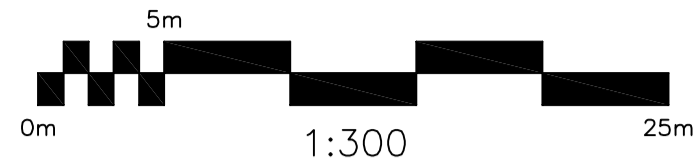
Drawn D.B.G.  
 H. Scale 1:500  
 V. Scale  
 Date FEB 12-25  
 Job No. 25013  
 Drawing No.  
**C-1**  
 of 16

REFER TO NOTES & DETAILS  
 ON DRAWINGS C-12 TO C-14

File No. D07-12-25-0064

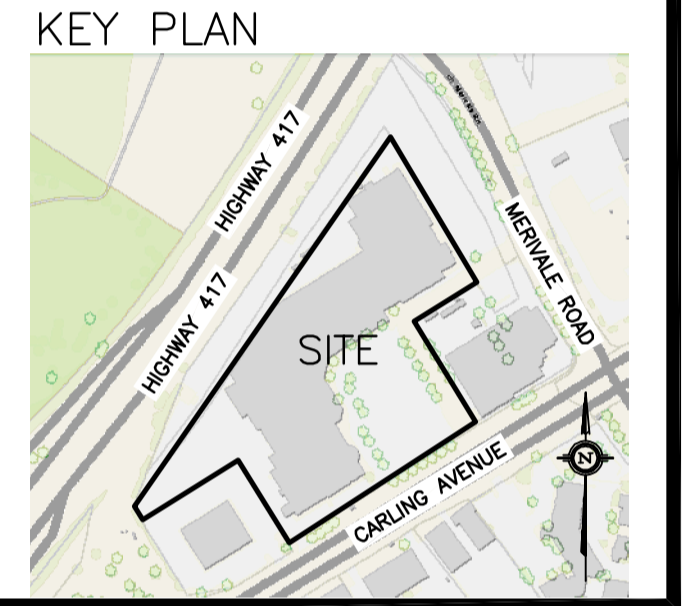
*G. Wildman*  
**GERALDINE WILDMAN**  
 MANAGER, DEVELOPMENT REVIEW SOUTH  
 PLANNING, DEVELOPMENT AND BUILDING SERVICES  
 DEPARTMENT, CITY OF OTTAWA

**APPROVED**  
 By wildmange at 3:36 pm, Jun 19, 2026



**LEGEND**

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TOF	TOP OF FOUNDATION
BFL	BASEMENT FLOOR ELEVATION
USF	UNDERSIDE OF FOOTING
---	PROPERTY LINE
CB	CATCH BASIN
MH	STORM MANHOLE
CB/MH	CATCH BASIN/MANHOLE
MH	SANITARY MANHOLE
FH	FIRE HYDRANT
FDC	FIRE DEPARTMENT CONNECTION
CS	CURB STOP & STANDPOST
VB	VALVE & VALVE BOX
(M)	WATER METER
(R)	REMOTE WATER METER
SAN	SANITARY SEWER
ST	STORM SEWER
WS/WM	WATER SERVICE/WATERMAIN
OBV	OBVERT OF PIPE
SPL	SPRINGLINE OF PIPE

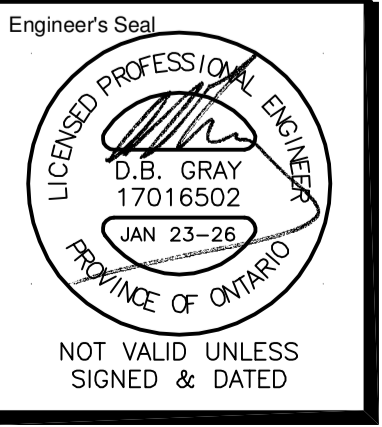


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 613-425-8044  
 d.gray@dbgrayengineering.com

**PROPOSED REDEVELOPMENT OF WESTGATE SC PHASE 1B**  
 1309 CARLING AVENUE  
 OTTAWA, ONTARIO

**SITE SERVICING PLAN NORTH**



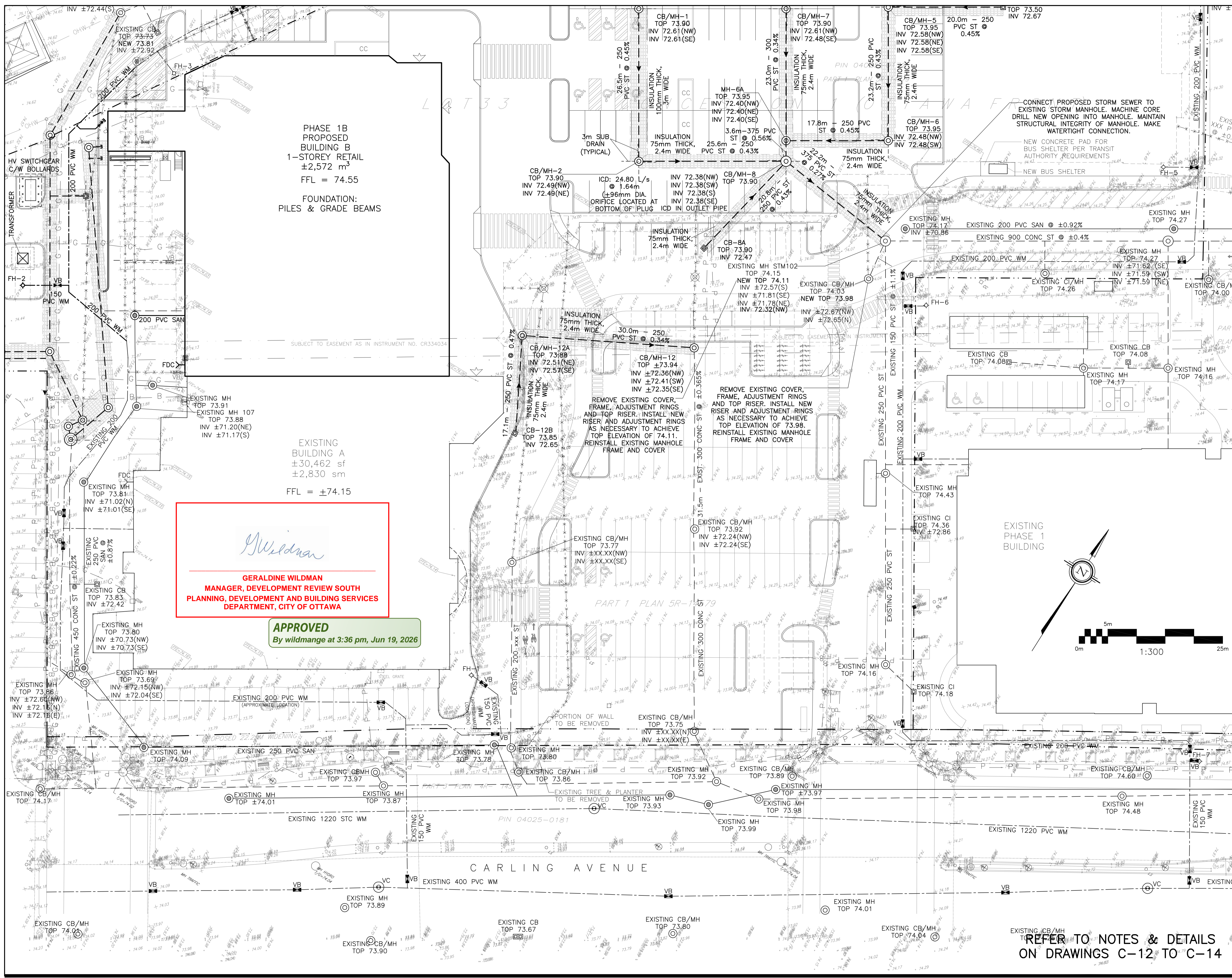
Engineer's Seal  
 D.B. GRAY  
 17016502  
 JAN 23-26  
 PROVINCE OF ONTARIO  
 NOT VALID UNLESS SIGNED & DATED

Drawn D.B.G.  
 H. Scale 1:300  
 V. Scale  
 Date FEB 12-25  
 Job No. 25013

Drawing No.  
**C-2**  
 of 16

**REFER TO NOTES & DETAILS ON DRAWINGS C-12 TO C-14**

File No. D07-12-25-0064



PHASE 1B  
PROPOSED  
BUILDING B  
1-STOUREY RETAIL  
±2,572 m<sup>3</sup>  
FFL = 74.55  
  
FOUNDATION:  
PILES & GRADE BEAMS

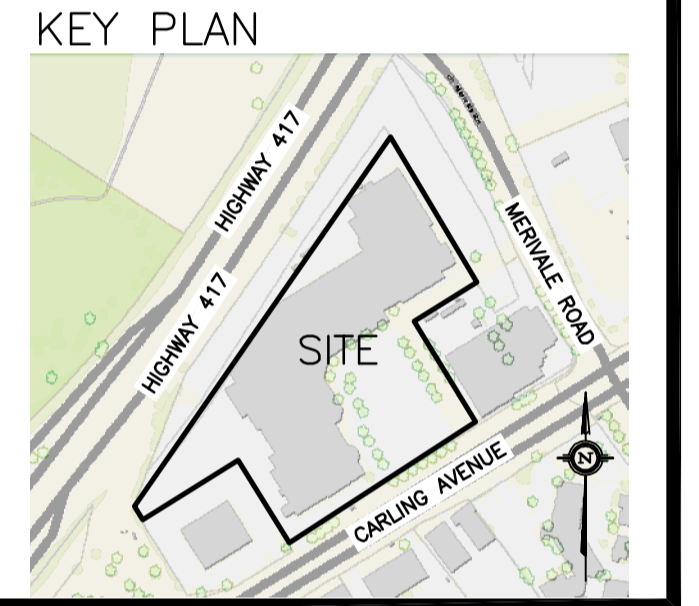
EXISTING  
BUILDING A  
±30,462 sf  
±2,830 sm  
FFL = ±74.15

*G. Wildman*  
**GERALDINE WILDMAN**  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, DEVELOPMENT AND BUILDING SERVICES  
DEPARTMENT, CITY OF OTTAWA

**APPROVED**  
By wildmange at 3:36 pm, Jun 19, 2026

**LEGEND**

FFL	FIRST FLOOR ELEVATION
TOF	TOP OF FOUNDATION
BFL	BASEMENT FLOOR ELEVATION
USF	UNDERSIDE OF FOOTING
---	PROPERTY LINE
CB	CATCH BASIN
MH	STORM MANHOLE
CB/MH	CATCH BASIN/MANHOLE
MH	SANITARY MANHOLE
FH	FIRE HYDRANT
FDC	FIRE DEPARTMENT CONNECTION
CS	CURB STOP & STANDPOST
VB	VALVE & VALVE BOX
M	WATER METER
R	REMOTE WATER METER
SAN	SANITARY SEWER
ST	STORM SEWER
WS/WM	WATER SERVICE/WATERMAIN
OBV	OBVERT OF PIPE
SPL	SPRINGLINE OF PIPE

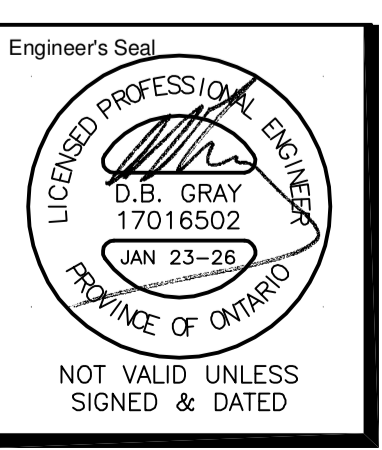


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d.gray@dbgrayengineering.com

Project  
**PROPOSED REDEVELOPMENT OF WESTGATE SC PHASE 1B**  
1309 CARLING AVENUE  
OTTAWA, ONTARIO

Drawing Title  
**SITE SERVICING PLAN SOUTH**



Engineer's Seal  
D.B. GRAY  
17016502  
JAN 23-26  
PROVINCE OF ONTARIO

Drawn D.B.G.  
H. Scale 1:300  
V. Scale  
Date FEB 12-25  
Job No. 25013

**REFER TO NOTES & DETAILS ON DRAWINGS C-12 TO C-14**

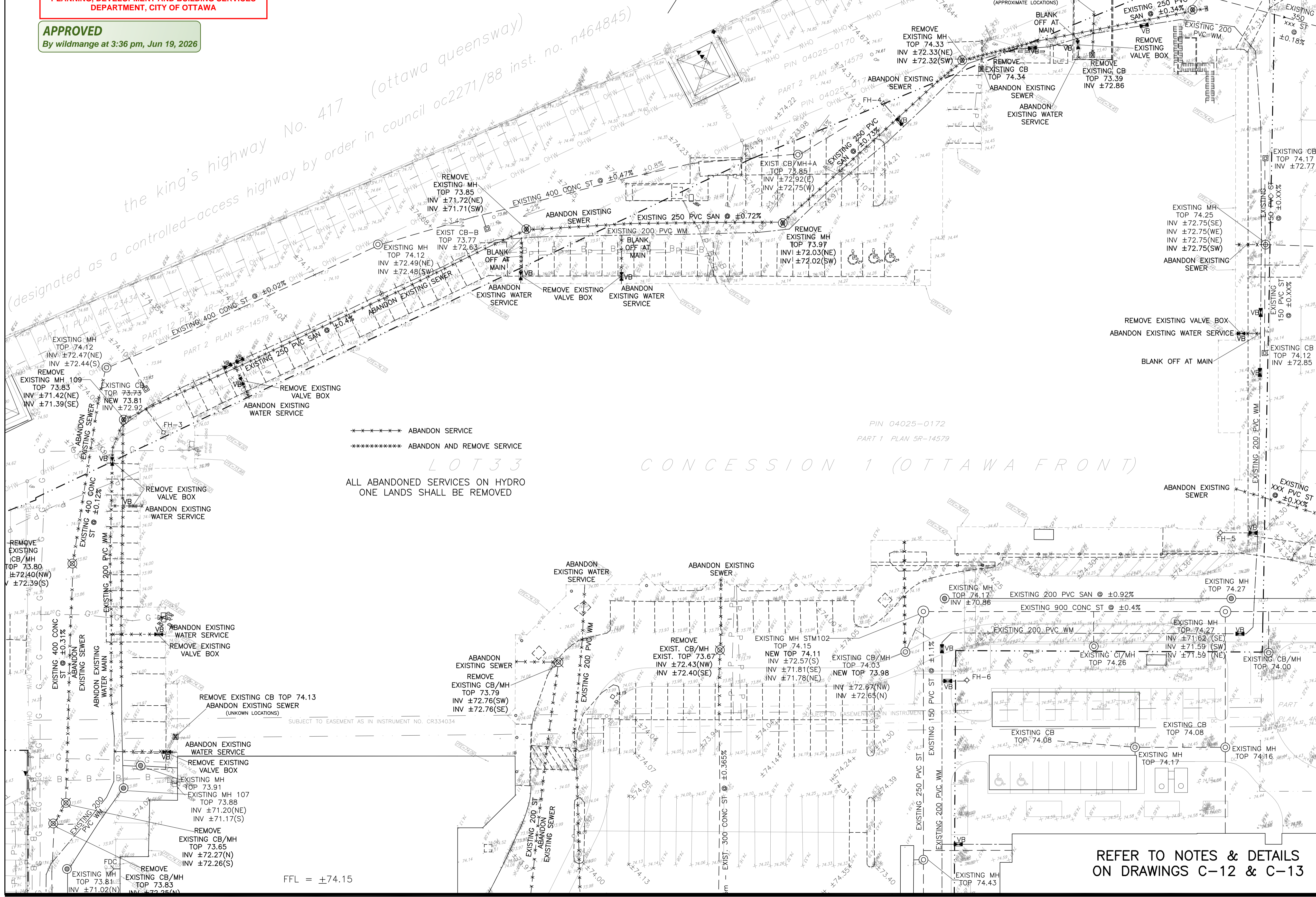
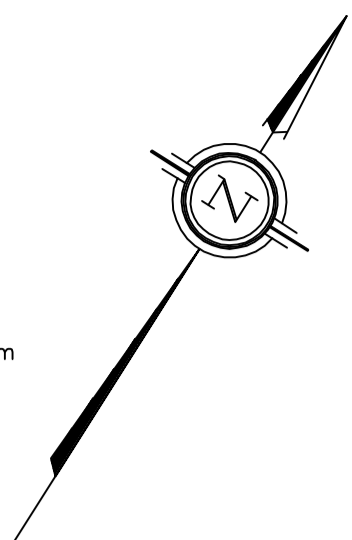
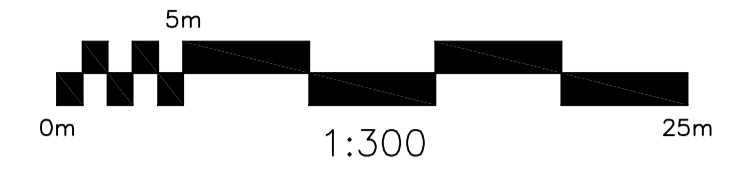
File No. D07-12-25-0064



*G. Wildman*

**GERALDINE WILDMAN**  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, DEVELOPMENT AND BUILDING SERVICES  
DEPARTMENT, CITY OF OTTAWA

**APPROVED**  
By wildmange at 3:36 pm, Jun 19, 2026



\*\*\*\*\* ABANDON SERVICE  
\*\*\*\*\* ABANDON AND REMOVE SERVICE  
**LOT 33**  
ALL ABANDONED SERVICES ON HYDRO  
ONE LANDS SHALL BE REMOVED

FFL = ±74.15

**REFER TO NOTES & DETAILS  
ON DRAWINGS C-12 & C-13**

**LEGEND**

- FFL FIRST FLOOR ELEVATION
- TOF TOP OF FOUNDATION
- BFL BASEMENT FLOOR ELEVATION
- USF UNDERSIDE OF FOOTING
- PROPERTY LINE
- CB CATCH BASIN
- MH STORM MANHOLE
- CB/MH CATCH BASIN/MANHOLE
- MH SANITARY MANHOLE
- FH FIRE HYDRANT
- FDC FIRE DEPARTMENT CONNECTION
- CS CURB STOP & STANDPOST
- VB VALVE & VALVE BOX
- M WATER METER
- R REMOTE WATER METER
- SAN SANITARY SEWER
- ST STORM SEWER
- WS/WM WATER SERVICE/WATERMAIN
- OBV OBVERT OF PIPE
- SPL SPRINGLINE OF PIPE

**KEY PLAN**

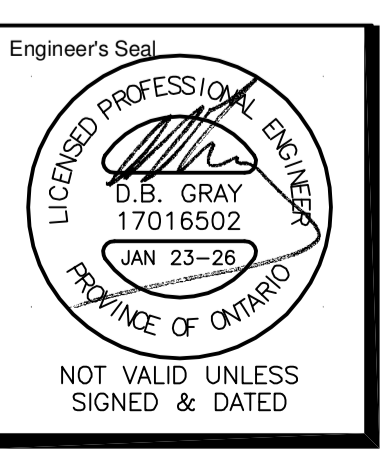


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d.gray@dbgrayengineering.com

**PROPOSED REDEVELOPMENT  
OF WESTGATE SC  
PHASE 1B  
1309 CARLING AVENUE  
OTTAWA, ONTARIO**

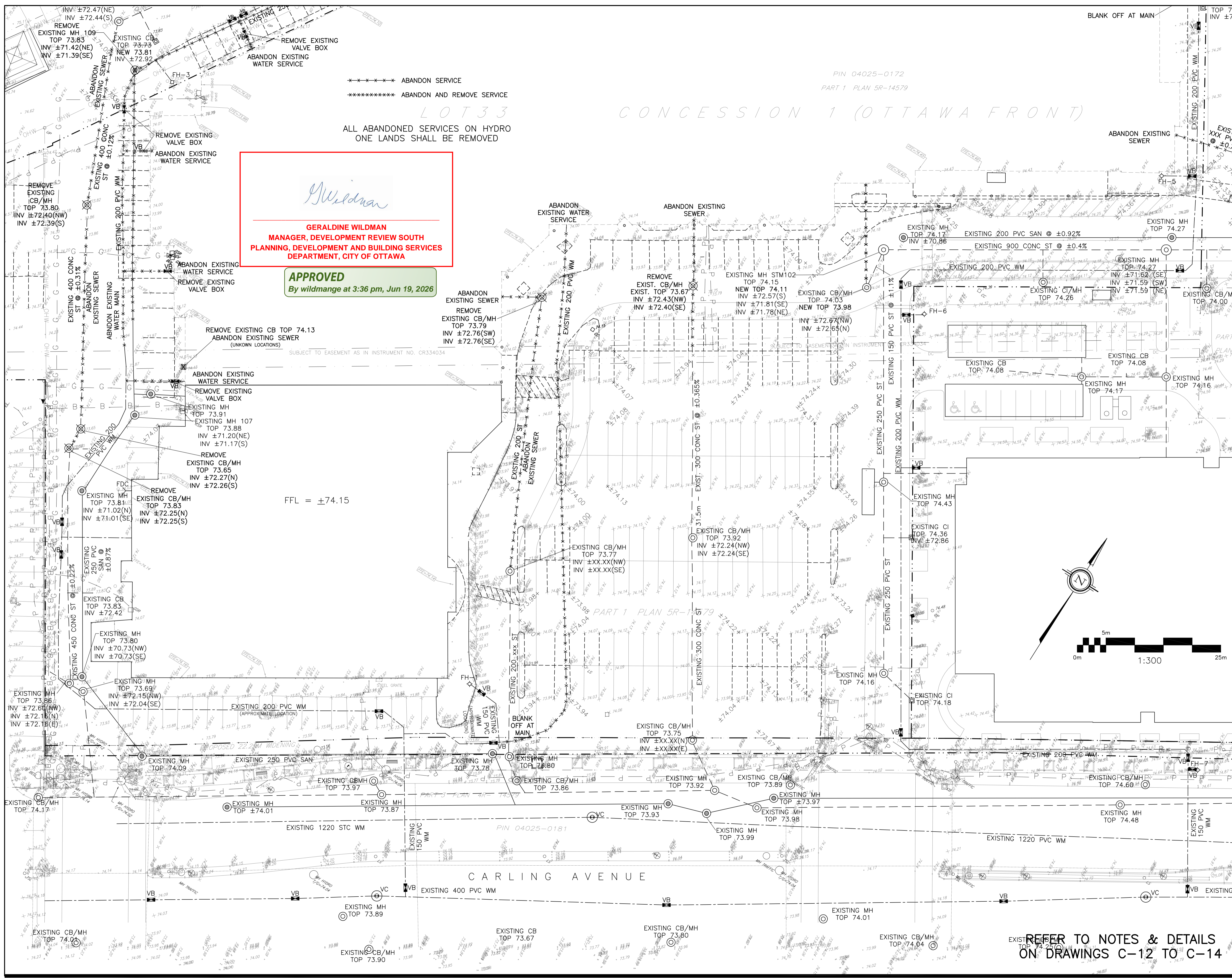
**EXISTING CONDITIONS,  
REMOVALS &  
ABANDONMENT PLAN  
NORTH**



Engineer's Seal  
D.B. GRAY  
17016502  
JAN 23-26  
PROVINCE OF ONTARIO  
NOT VALID UNLESS  
SIGNED & DATED

Drawn D.B.G.  
H. Scale 1:300  
V. Scale  
Date FEB 12-25  
Job No. 25013  
Drawing No.  
**C-5**  
of 16

File No. D07-12-25-0064



PIN 04025-0172  
PART 1 PLAN 5R-14579

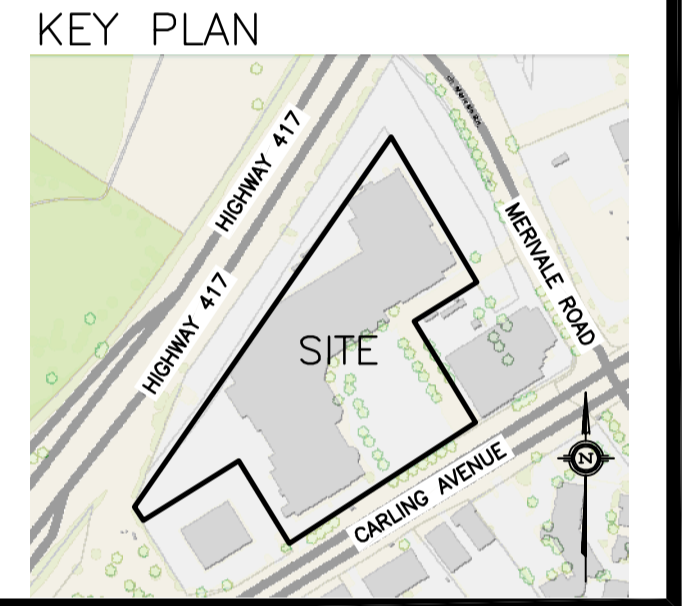
\*\*\*\*\* ABANDON SERVICE  
\*\*\*\*\* ABANDON AND REMOVE SERVICE  
LOT 33  
CONCESSION 1 (OTTAWA FRONT)  
ALL ABANDONED SERVICES ON HYDRO  
ONE LANDS SHALL BE REMOVED

*G. Wildman*  
**GERALDINE WILDMAN**  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, DEVELOPMENT AND BUILDING SERVICES  
DEPARTMENT, CITY OF OTTAWA

**APPROVED**  
By wildmange at 3:36 pm, Jun 19, 2026

**LEGEND**

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TOF	TOP OF FOUNDATION
BFL	BASEMENT FLOOR ELEVATION
USF	UNDERSIDE OF FOOTING
---	PROPERTY LINE
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MH	STORM MANHOLE
CB/MH	CATCH BASIN/MANHOLE
MH	SANITARY MANHOLE
FH	FIRE HYDRANT
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CS	CURB STOP & STANDPOST
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OBV	OBVERT OF PIPE
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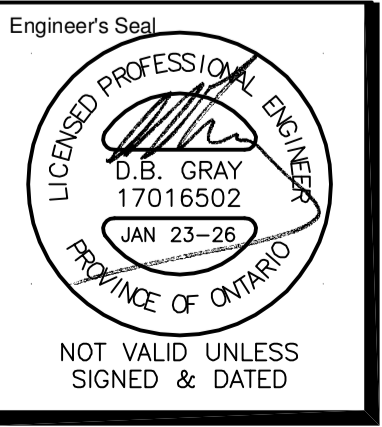


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700 Long Point Circle  
Ottawa, Ontario  
613-425-8044  
d.gray@dbgrayengineering.com

Project  
**PROPOSED REDEVELOPMENT OF WESTGATE SC PHASE 1B**  
1309 CARLING AVENUE  
OTTAWA, ONTARIO

Drawing Title  
**EXISTING CONDITIONS, REMOVALS & ABANDONMENT PLAN SOUTH**



Engineer's Seal  
D.B. GRAY  
17016502  
JAN 23-26  
PROVINCE OF ONTARIO

Drawn  
H. Scale 1:300  
V. Scale  
Date FEB 12-25  
Job No. 25013

Drawing No.  
**C-6**  
of 16

REFER TO NOTES & DETAILS ON DRAWINGS C-12 TO C-14

File No. D07-12-25-0064

**DRAINAGE AREA II (PHASE 1B)**

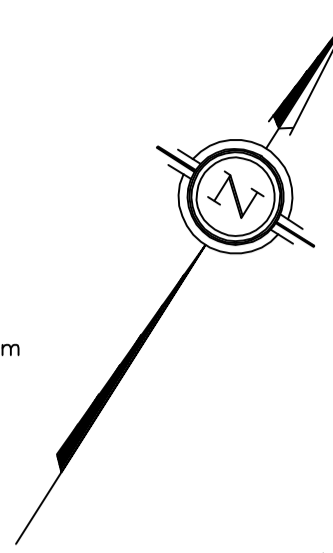
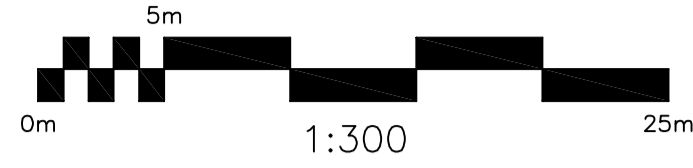
100-YEAR:  
 PONDING ELEVATION: 74.07 m  
 PONDING AREA: 2706 m<sup>2</sup>  
 PONDING DEPTH: 0.17 m  
 PONDING VOLUME: 143.62 m<sup>3</sup>  
 TOTAL VOLUME: 271.22 m<sup>3</sup>  
 (INCLUDING U/G STORAGE)

MAXIMUM AVAILABLE:  
 PONDING ELEVATION: 74.10 m  
 (SPILLOVER ELEVATION)  
 PONDING DEPTH: 0.20 m  
 PONDING AREA: 3880 m<sup>2</sup>  
 PONDING VOLUME: 244.77 m<sup>3</sup>  
 TOTAL VOLUME: 372.38 m<sup>3</sup>  
 (INCLUDING U/G STORAGE)

**DRAINAGE AREA II (PHASE 1B + PHASE 2)**  
 (INCLUDING IN TEMPORARY GRASSED AREA ABOVE CB-4)

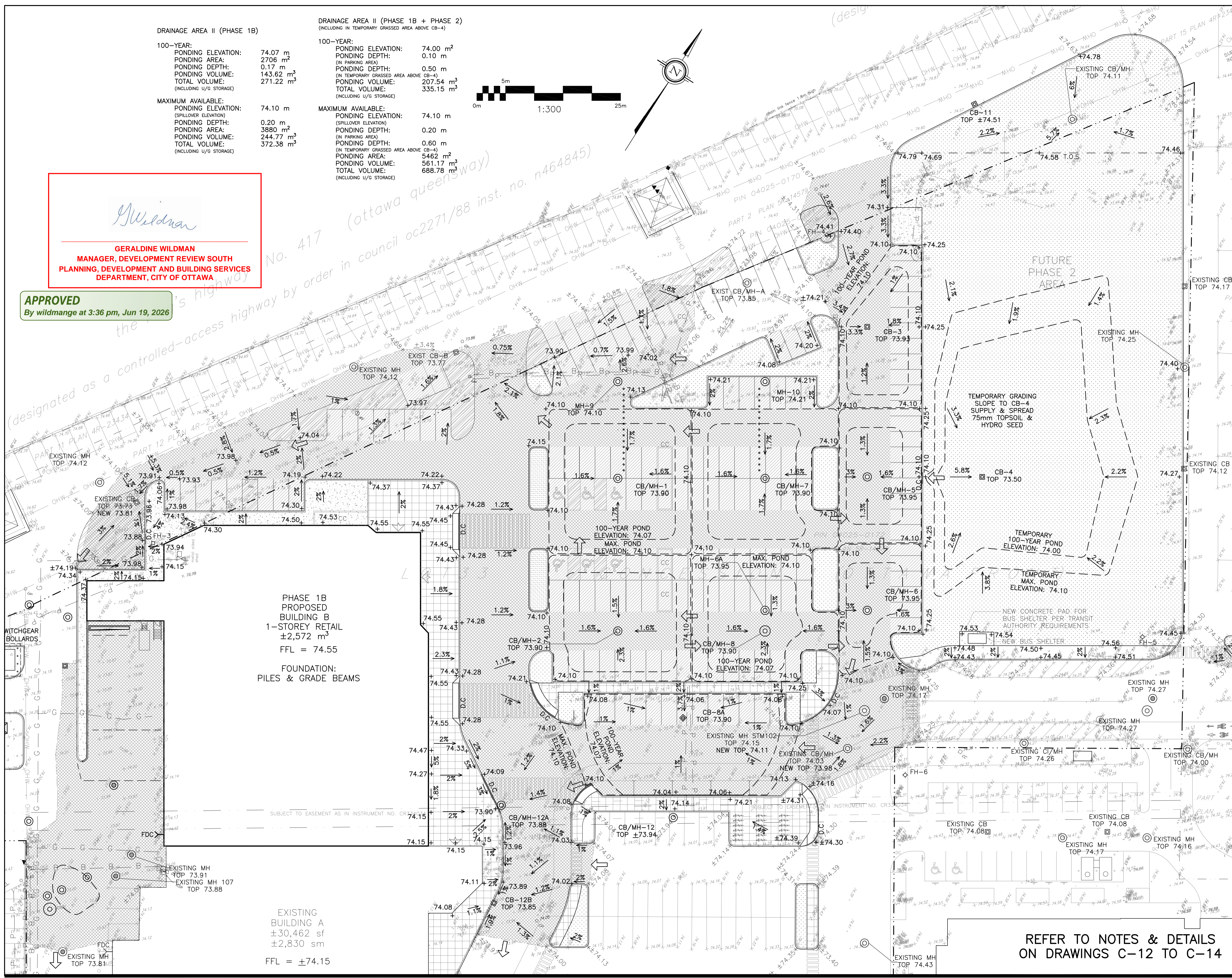
100-YEAR:  
 PONDING ELEVATION: 74.00 m<sup>2</sup>  
 PONDING DEPTH: 0.10 m  
 (IN PARKING AREA)  
 PONDING DEPTH: 0.50 m  
 (IN TEMPORARY GRASSED AREA ABOVE CB-4)  
 PONDING AREA: 207.54 m<sup>2</sup>  
 TOTAL VOLUME: 335.15 m<sup>3</sup>  
 (INCLUDING U/G STORAGE)

MAXIMUM AVAILABLE:  
 PONDING ELEVATION: 74.10 m  
 (SPILLOVER ELEVATION)  
 PONDING DEPTH: 0.20 m  
 (IN PARKING AREA)  
 PONDING DEPTH: 0.60 m  
 (IN TEMPORARY GRASSED AREA ABOVE CB-4)  
 PONDING AREA: 5462 m<sup>2</sup>  
 PONDING VOLUME: 561.17 m<sup>3</sup>  
 TOTAL VOLUME: 688.78 m<sup>3</sup>  
 (INCLUDING U/G STORAGE)



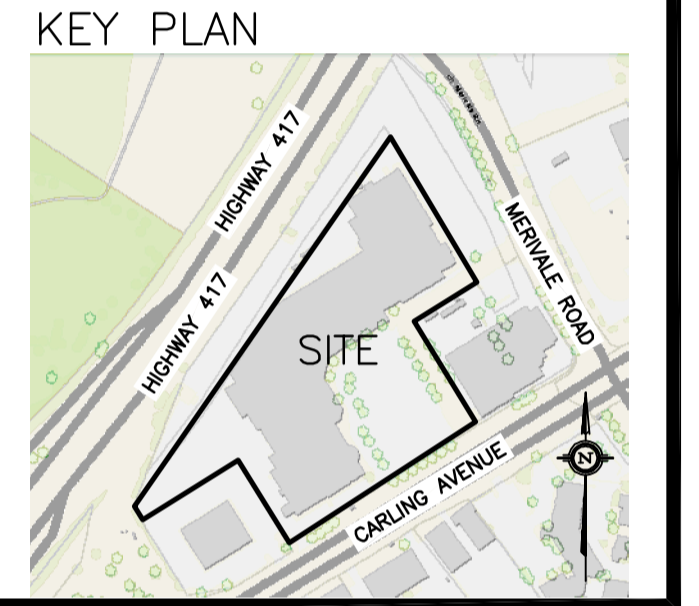
**GERALDINE WILDMAN**  
 MANAGER, DEVELOPMENT REVIEW SOUTH  
 PLANNING, DEVELOPMENT AND BUILDING SERVICES  
 DEPARTMENT, CITY OF OTTAWA

**APPROVED**  
 By wildmange at 3:36 pm, Jun 19, 2026



**LEGEND**

- FFL FIRST FLOOR ELEVATION
- TOF TOP OF FOUNDATION
- BFL BASEMENT FLOOR ELEVATION
- USF UNDERSIDE OF FOOTING
- PROPERTY LINE
- CB CATCH BASIN
- MH STORM MANHOLE
- CB/MH CATCH BASIN/MANHOLE
- MH SANITARY MANHOLE
- FH FIRE HYDRANT
- FDC FIRE DEPARTMENT CONNECTION
- 99.99 EXISTING GRADE ELEVATION
- +99.99 PROPOSED GRADE ELEVATION
- 2% PROPOSED SLOPE OF GRADE
- ⇨ EMERGENCY OVERLAND FLOW
- T.O.S TOP OF SLOPE
- 150mm BARRIER CURB
- D.C DEPRESSED CURB
- Light-Duty Pavement
- Heavy-Duty Pavement
- CONCRETE
- CONCRETE PAVERS
- LANDSCAPE

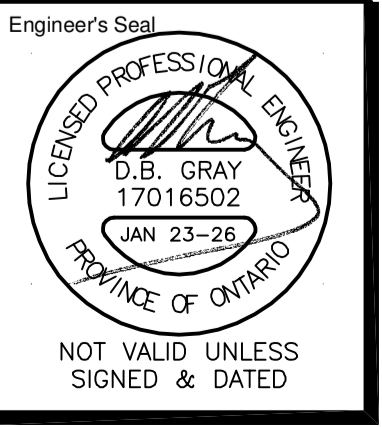


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**PROPOSED REDEVELOPMENT OF WESTGATE SC PHASE 1B**  
 1309 CARLING AVENUE  
 OTTAWA, ONTARIO

**GRADING PLAN NORTH**



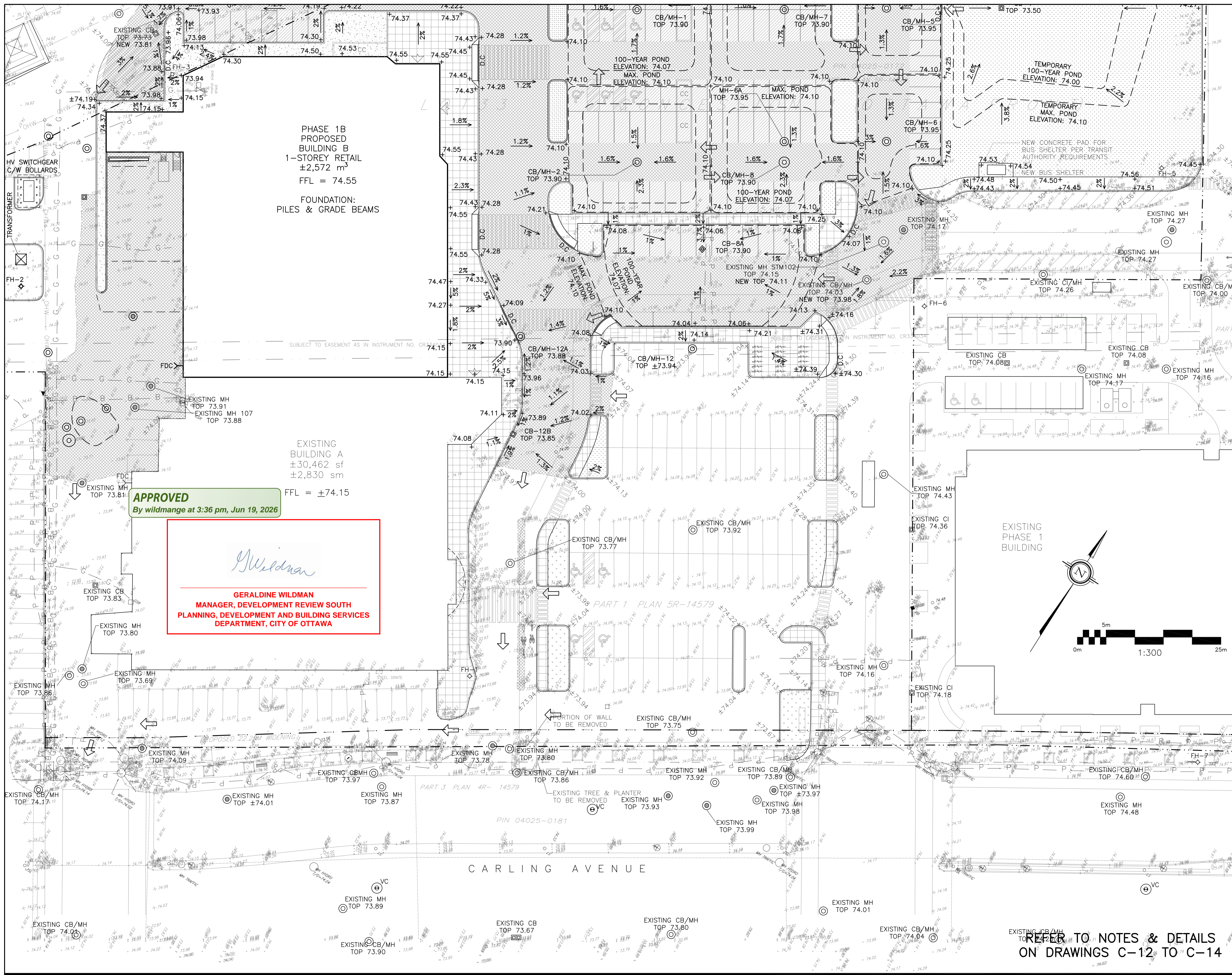
Engineer's Seal  
 D.B. GRAY  
 17016502  
 JAN 23-26  
 PROVINCE OF ONTARIO

NOT VALID UNLESS SIGNED & DATED

Drawn D.B.G.  
 H. Scale 1:300  
 V. Scale  
 Date FEB 12-25  
 Job No. 25013

Drawing No.  
**C-7**  
 of 16

**REFER TO NOTES & DETAILS ON DRAWINGS C-12 TO C-14**

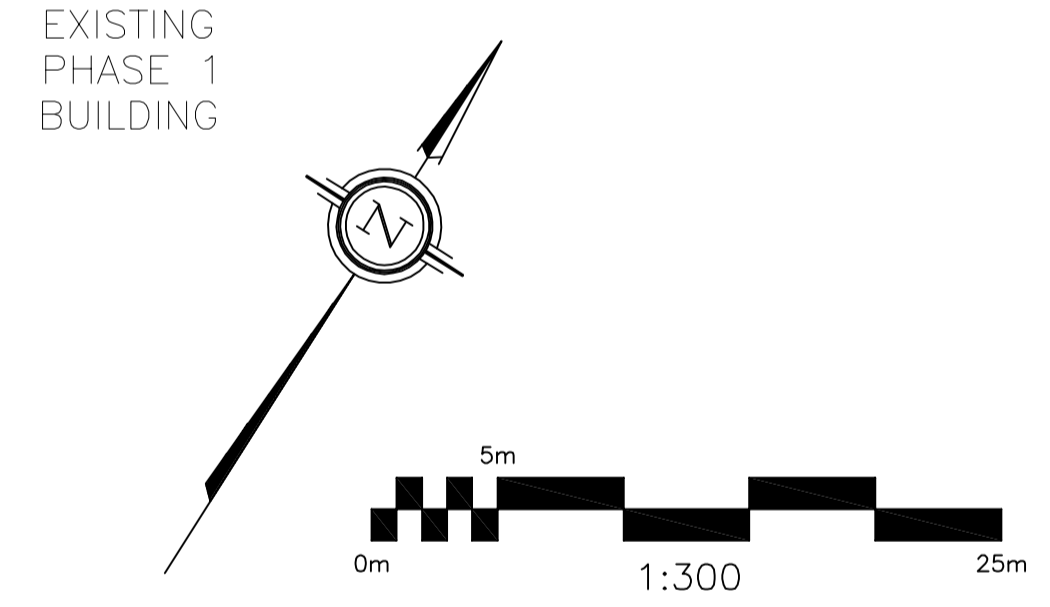


PHASE 1B  
PROPOSED  
BUILDING B  
1-STORY RETAIL  
±2,572 m<sup>3</sup>  
FFL = 74.55  
  
FOUNDATION:  
PILES & GRADE BEAMS

EXISTING  
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FFL = ±74.15

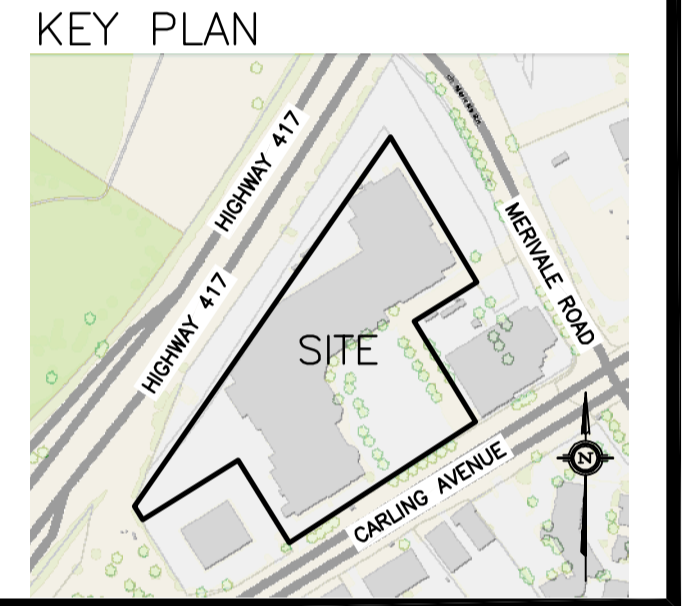
**APPROVED**  
By wildmange at 3:36 pm, Jun 19, 2026

*G. Wildman*  
**GERALDINE WILDMAN**  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, DEVELOPMENT AND BUILDING SERVICES  
DEPARTMENT, CITY OF OTTAWA



**LEGEND**

FFL	FIRST FLOOR ELEVATION
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MH	STORM MANHOLE
CB/MH	CATCH BASIN/MANHOLE
SM	SANITARY MANHOLE
FH	FIRE HYDRANT
FDC	FIRE DEPARTMENT CONNECTION
---	EXISTING GRADE ELEVATION
+	PROPOSED GRADE ELEVATION
2%	PROPOSED SLOPE OF GRADE
→	EMERGENCY OVERLAND FLOW
T.O.S	TOP OF SLOPE
---	150mm BARRIER CURB
D.C	DEPRESSED CURB
---	LIGHT-DUTY PAVEMENT
---	HEAVY-DUTY PAVEMENT
---	CONCRETE
---	CONCRETE PAVERS
---	LANDSCAPE

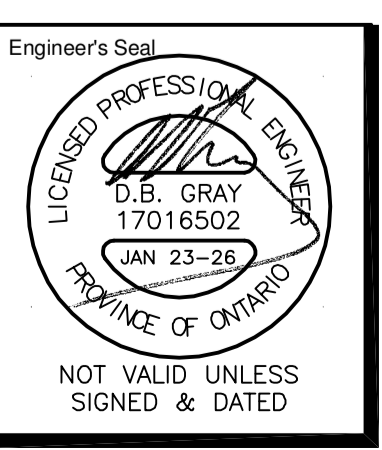


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Project  
**PROPOSED REDEVELOPMENT OF WESTGATE SC PHASE 1B**  
1309 CARLING AVENUE  
OTTAWA, ONTARIO

Drawing Title  
**GRADING PLAN SOUTH**



Engineer's Seal  
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17016502  
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PROVINCE OF ONTARIO  
NOT VALID UNLESS SIGNED & DATED

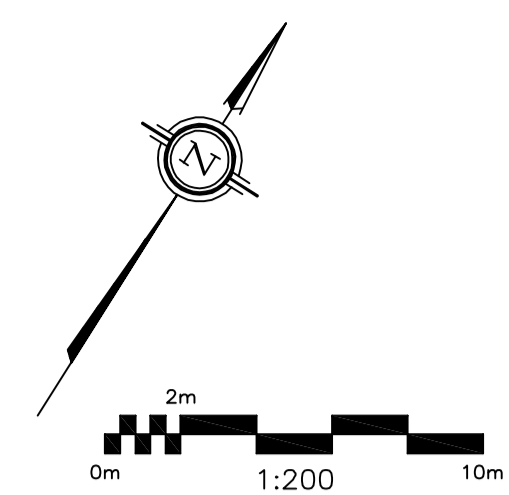
Drawn  
D.B.G.  
H. Scale 1:300  
V. Scale  
Date FEB 12-25  
Job No. 25013

Drawing No.  
**C-8**  
of 16

REFER TO NOTES & DETAILS ON DRAWINGS C-12 TO C-14

File No. D07-12-25-0064

(designated as  
PART 11 PLAN 4R-23434  
PART 12 PLAN 4R-23434



DRAINAGE AREA III (PHASE 1B)

100-YEAR:  
PONDING ELEVATION: NO PONDING  
PONDING DEPTH: 0 m  
PONDING AREA: 0 m<sup>2</sup>  
PONDING VOLUME: 0 m<sup>3</sup>  
TOTAL VOLUME: 293.70 m<sup>3</sup>  
(INCLUDING U/G STORAGE)

MAXIMUM AVAILABLE:  
PONDING ELEVATION: 73.77 m  
(SPILLOVER ELEVATION)  
PONDING DEPTH: 0.12 m  
PONDING AREA: 48 m<sup>2</sup>  
PONDING VOLUME: 1.92 m<sup>3</sup>  
TOTAL VOLUME: 417.91 m<sup>3</sup>  
(INCLUDING U/G STORAGE)

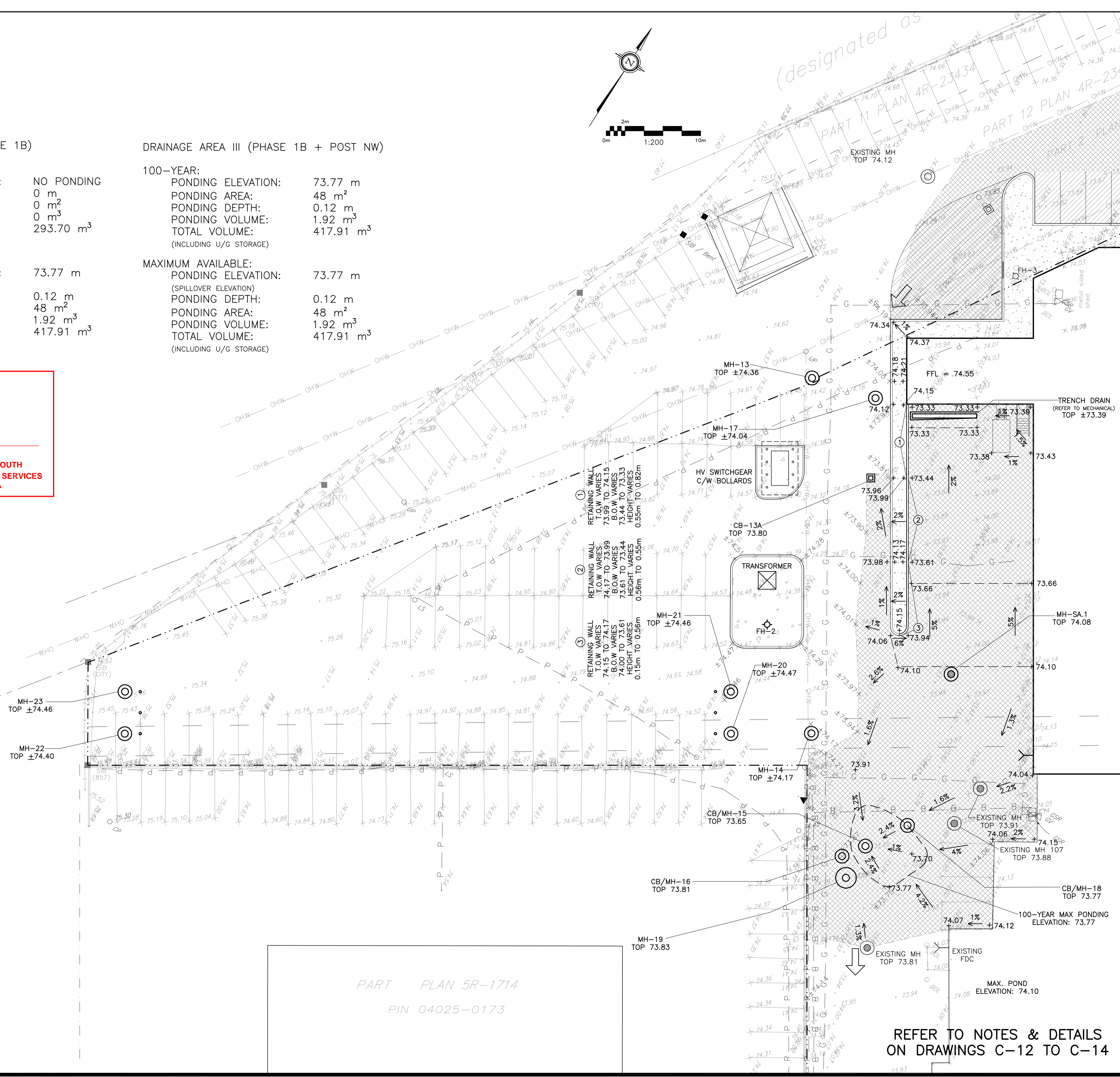
DRAINAGE AREA III (PHASE 1B + POST NW)

100-YEAR:  
PONDING ELEVATION: 73.77 m  
PONDING AREA: 48 m<sup>2</sup>  
PONDING DEPTH: 0.12 m  
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(INCLUDING U/G STORAGE)

*G. Wildman*  
**GERALDINE WILDMAN**  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, DEVELOPMENT AND BUILDING SERVICES  
DEPARTMENT, CITY OF OTTAWA

**APPROVED**  
By wildmange at 3:36 pm, Jun 19, 2026

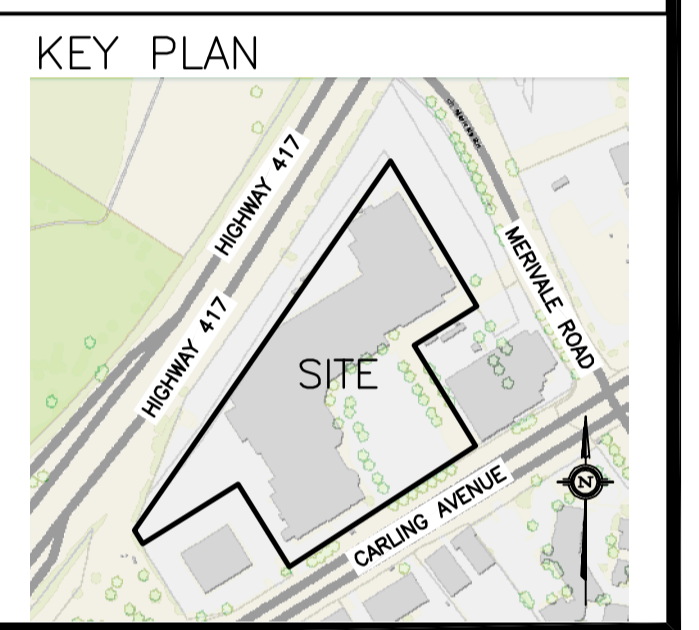


PART PLAN 5R-1714  
PIN 04025-0173

REFER TO NOTES & DETAILS  
ON DRAWINGS C-12 TO C-14

**LEGEND**

FFL	FIRST FLOOR ELEVATION
TOF	TOP OF FOUNDATION
BFL	BASEMENT FLOOR ELEVATION
USF	UNDERSIDE OF FOOTING
---	PROPERTY LINE
CB	CATCH BASIN
MH	STORM MANHOLE
CB/MH	CATCH BASIN/MANHOLE
MH	SANITARY MANHOLE
FH	FIRE HYDRANT
FDC	FIRE DEPARTMENT CONNECTION
99.99	EXISTING GRADE ELEVATION
+99.99	PROPOSED GRADE ELEVATION
2%	PROPOSED SLOPE OF GRADE
→	EMERGENCY OVERLAND FLOW
T.O.S	TOP OF SLOPE
---	150mm BARRIER CURB
D.C	DEPRESSED CURB
---	LIGHT-DUTY PAVEMENT
---	HEAVY-DUTY PAVEMENT
---	CONCRETE
---	CONCRETE PAVERS
---	LANDSCAPE



No.	DATE	REVISION
5	JAN 23-25	REVISED PER CITY COMMENTS 2
4	NOV 7-25	ISSUED FOR ISSUED FOR TENANT REVIEW 1 (50%)
3	OCT 30-25	RE-ISSUED FOR SITE PLAN APPROVAL
2	MAY 9-25	ISSUED FOR SITE PLAN APPROVAL
1	MAR 3-25	ISSUED FOR COORDINATION

**D. B. GRAY ENGINEERING INC.**  
Stormwater Management - Grading & Drainage - Storm & Sanitary Sewers - Watermain  
700 Long Point Circle  
Ottawa, Ontario  
613-425-8044  
d.gray@dbgrayengineering.com

Project  
**PROPOSED REDEVELOPMENT OF WESTGATE SC PHASE 1B**  
1309 CARLING AVENUE  
OTTAWA, ONTARIO

Drawing Title  
**GRADING PLAN WEST**

Engineer's Seal

Drawn: D.B.G.  
H. Scale: 1:200  
V. Scale:  
Date: FEB 12-25  
Job No.: 25013

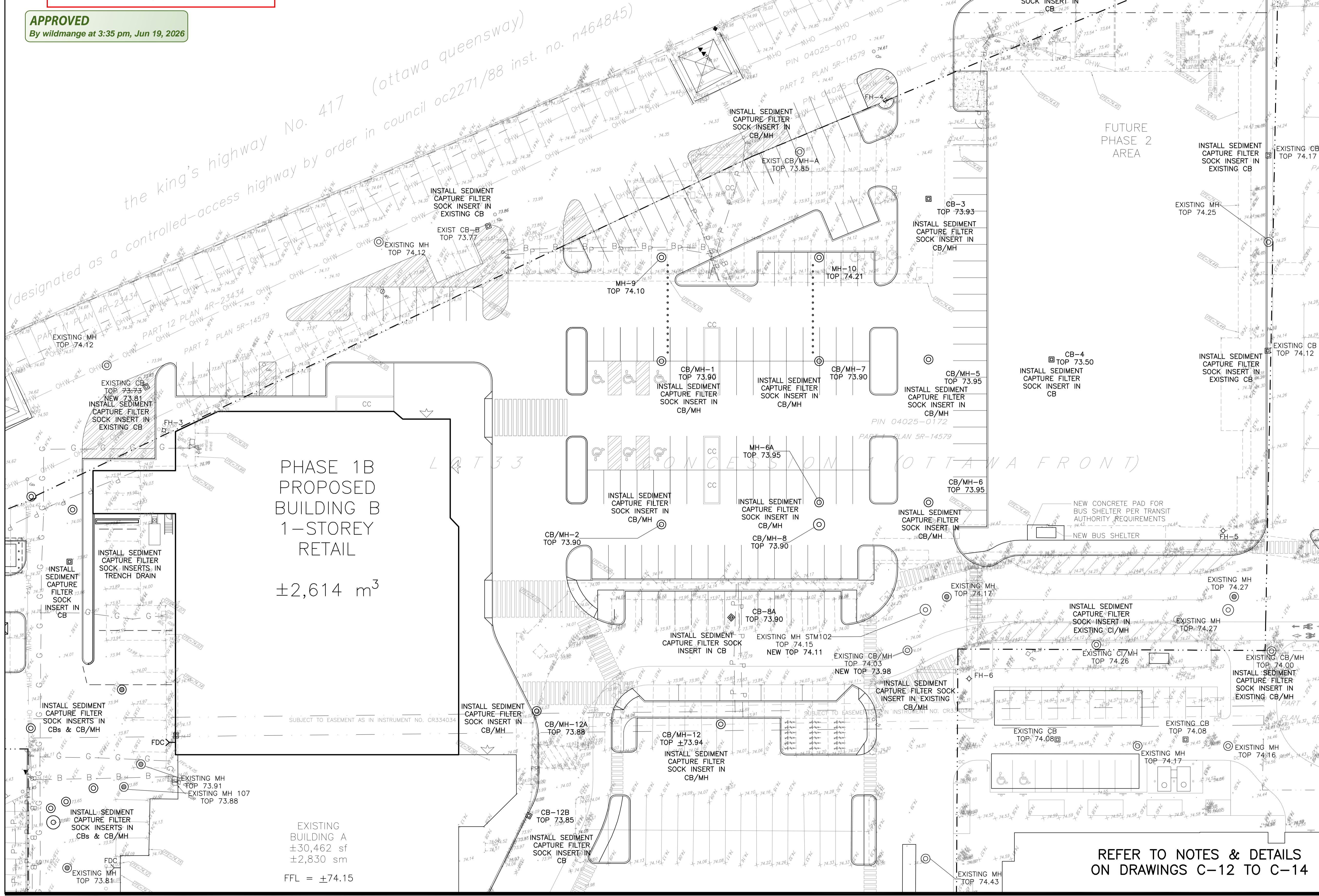
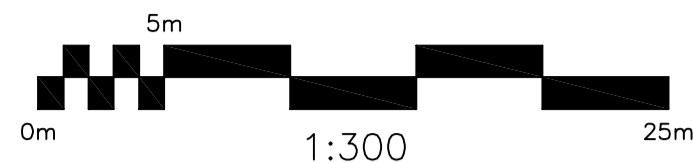
Drawing No.  
**C-9**  
of 16

File No. D07-12-25-0064

*G. Wildman*

**GERALDINE WILDMAN**  
**MANAGER, DEVELOPMENT REVIEW SOUTH**  
**PLANNING, DEVELOPMENT AND BUILDING SERVICES**  
**DEPARTMENT, CITY OF OTTAWA**

**APPROVED**  
 By wildmange at 3:35 pm, Jun 19, 2026



**LEGEND**

FFL	FIRST FLOOR ELEVATION
TOP	TOP OF FOUNDATION
BFL	BASEMENT FLOOR ELEVATION
USF	UNDERSIDE OF FOOTING
---	PROPERTY LINE
CB	CATCH BASIN
MH	STORM MANHOLE
CB/MH	CATCH BASIN/MANHOLE
MH	SANITARY MANHOLE
FH	FIRE HYDRANT
FDC	FIRE DEPARTMENT CONNECTION
CS	CURB STOP & STANDPOST
VB	VALVE & VALVE BOX
(M)	WATER METER
(R)	REMOTE WATER METER
SAN	SANITARY SEWER
ST	STORM SEWER
WS/WM	WATER SERVICE/WATERMAIN
OBV	OBVERT OF PIPE
SPL	SPRINGLINE OF PIPE

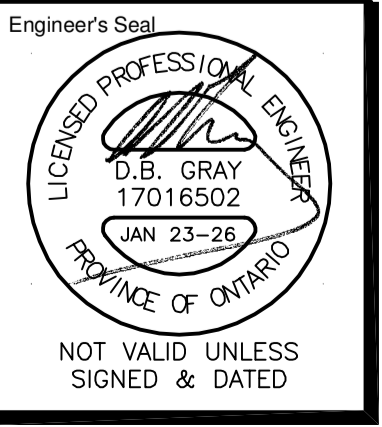


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**PROPOSED REDEVELOPMENT OF WESTGATE SC PHASE 1B**  
 1309 CARLING AVENUE  
 OTTAWA, ONTARIO

**EROSION & SEDIMENT CONTROL PLAN NORTH**

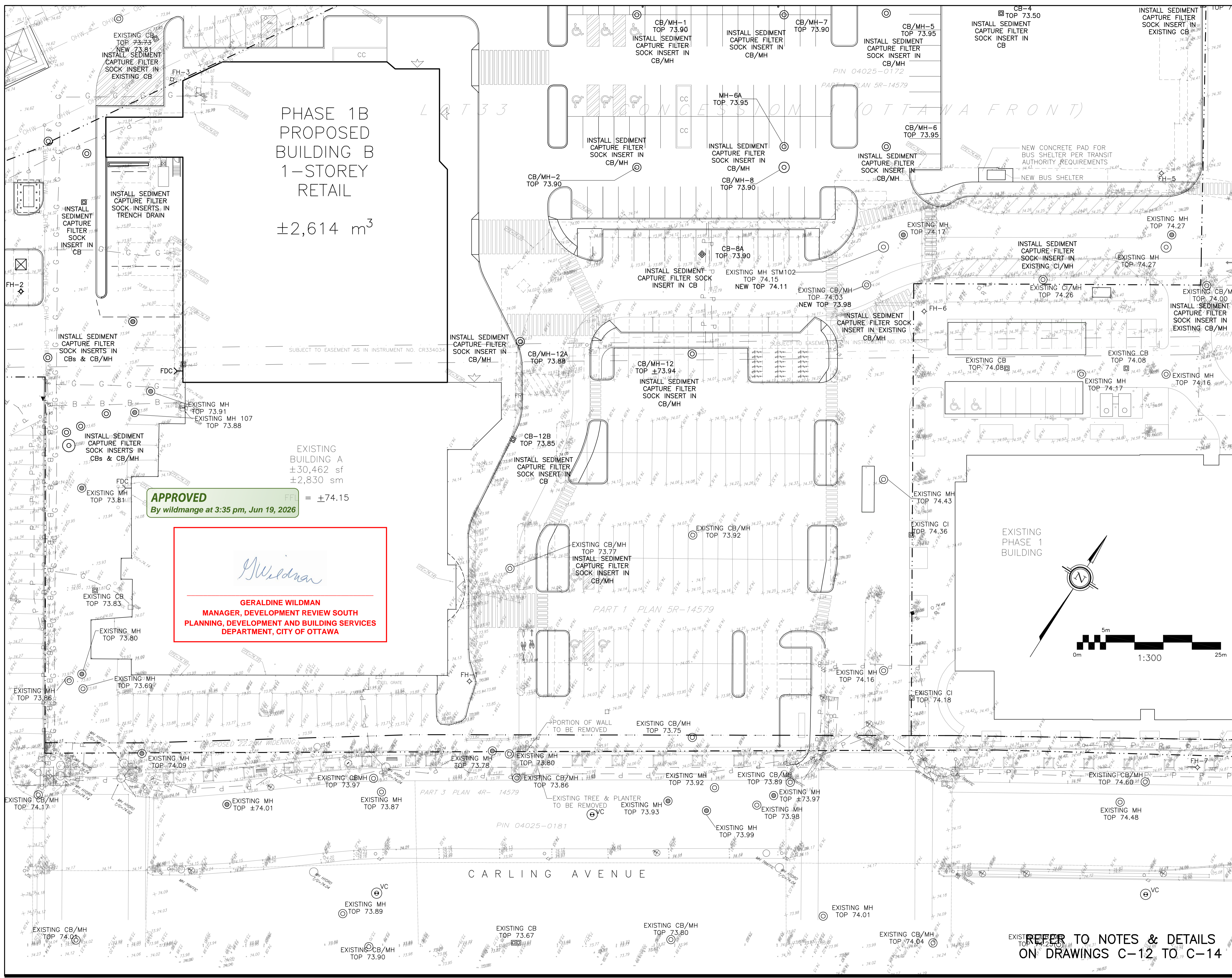


Engineer's Seal  
 H. Scale 1:300  
 V. Scale  
 Date FEB 12-25  
 Job No. 25013

Drawing No.  
**C-10**  
 of 16

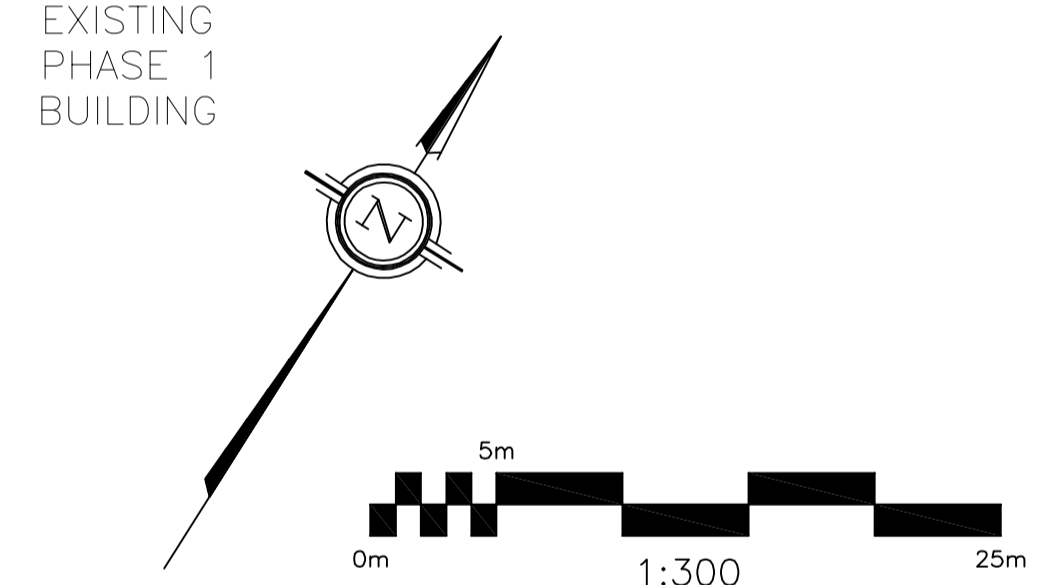
**REFER TO NOTES & DETAILS ON DRAWINGS C-12 TO C-14**

File No. D07-12-25-0064



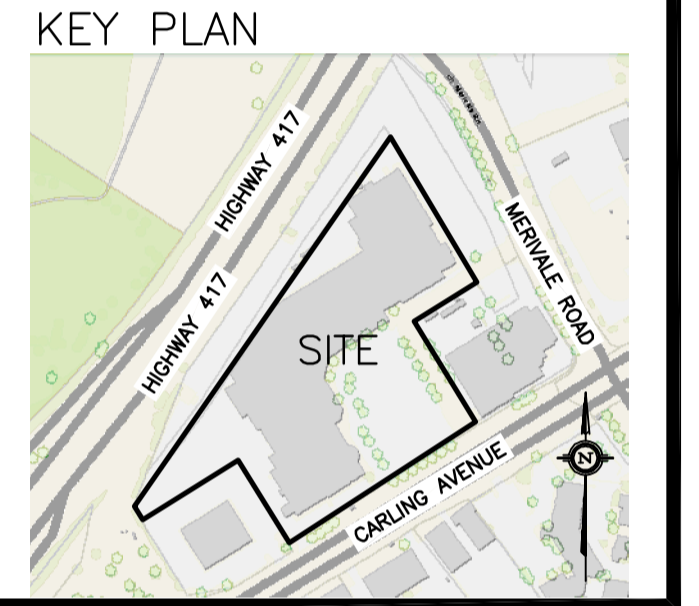
**APPROVED**  
By wildmange at 3:35 pm, Jun 19, 2026

*G. Wildman*  
**GERALDINE WILDMAN**  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, DEVELOPMENT AND BUILDING SERVICES  
DEPARTMENT, CITY OF OTTAWA



**LEGEND**

FFL	FIRST FLOOR ELEVATION
TOF	TOP OF FOUNDATION
BFL	BASEMENT FLOOR ELEVATION
USF	UNDERSIDE OF FOOTING
---	PROPERTY LINE
CB	CATCH BASIN
MH	STORM MANHOLE
CB/MH	CATCH BASIN/MANHOLE
MH	SANITARY MANHOLE
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ST	STORM SEWER
WS/WM	WATER SERVICE/WATERMAIN
OBV	OBVERT OF PIPE
SPL	SPRINGLINE OF PIPE

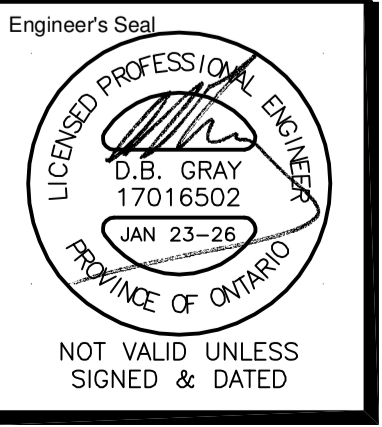


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Project  
**PROPOSED REDEVELOPMENT OF WESTGATE SC PHASE 1B**  
1309 CARLING AVENUE  
OTTAWA, ONTARIO

Drawing Title  
**EROSION & SEDIMENT CONTROL PLAN SOUTH**



Drawn	D.B.G.
H. Scale	1:300
V. Scale	
Date	FEB 12-25
Job No.	25013

Drawing No.  
**C-11**  
of 16

REFER TO NOTES & DETAILS ON DRAWINGS C-12 TO C-14

File No. D07-12-25-0064

*G. Wildman*

**GERALDINE WILDMAN**  
**MANAGER, DEVELOPMENT REVIEW SOUTH**  
**PLANNING, DEVELOPMENT AND BUILDING SERVICES**  
**DEPARTMENT, CITY OF OTTAWA**

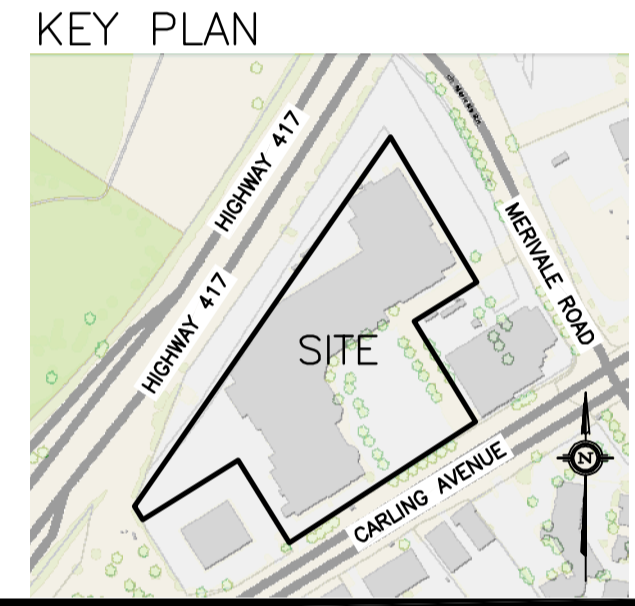
**APPROVED**  
*By wildmange at 3:35 pm, Jun 19, 2026*

1. GENERAL
  - 1.1 USE BAR SCALE TO CONFIRM ACTUAL PLOT SCALE. EXISTING AND NEW ELEVATIONS AND INVERTS SHOWN ARE GEODETIC AND ARE IN METERS. ALL PIPE DIMENSIONS ARE NOMINAL AND IN MILLIMETERS UNLESS OTHERWISE NOTED.
  - 1.2 UNLESS OTHERWISE STATED "ENGINEER" REFERS TO D. B. GRAY ENGINEERING INC.
  - 1.3 SITE BOUNDARIES AND EXISTING GRADES AND OTHER FEATURES DERIVED FROM AVAILABLE INFORMATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH A SITE BENCHMARK AND TO VERIFY THAT THE BENCHMARK IS NOT ALTERED OR DISTURBED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREE WITH THE INFORMATION SHOWN ON SURVEY PLAN AND THESE DRAWINGS.
  - 1.4 REFER TO ARCHITECTURAL AND LANDSCAPE SITE PLANS FOR EXACT LOCATIONS OF BUILDINGS, PAVED AREAS, SIDEWALKS, PLANTERS ETC. LAYOUT SHALL BE COMPLETED BY THE CONTRACTOR AND SHALL BE REVIEWED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION. AT ALL TIMES THE CONTRACTOR IS RESPONSIBLE FOR THE ACCURACY OF THESE INFORMATION.
  - 1.5 REFER TO TREE CONSERVATION REPORT FOR TREE PROTECTION REQUIREMENTS.
  - 1.6 REFERENCE THE LATEST REVISION AND ALL ADDENDUMS OF THE GEOTECHNICAL INVESTIGATION BY GEOSYNTEC CONSULTANTS INTERNATIONAL INC, PROJECT NUMBER TR15638. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SATISFACTION OF THE GEOTECHNICAL ENGINEER INCLUDING: SUB-GRADE PREPARATION AND CONSTRUCTION OF THE PAVEMENT STRUCTURE, EXCAVATION AND BACKFILLING, SERVICE TRENCH EXCAVATION AND PIPE BEDDING AND BACKFILL; AND THE COMPACTION OF MATERIALS.
  - 1.7 DRAWINGS ARE TO BE READ IN CONJUNCTION WITH SITE SERVICING & STORMWATER MANAGEMENT REPORT No. 25013 PREPARED BY D. B. GRAY ENGINEERING INC.
  - 1.8 CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND CURRENT CITY OF OTTAWA STANDARD SPECIFICATIONS AND DRAWINGS.
  - 1.9 ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND DRAWINGS SHALL APPLY WHERE NO CITY OF OTTAWA STANDARD SPECIFICATIONS OR DRAWINGS ARE AVAILABLE.
  - 1.10 REINSTATE AREAS DISTURBED BY CONSTRUCTION TO PRE-CONSTRUCTION CONDITIONS.
  - 1.11 REINSTATE CITY PROPERTIES TO CITY STANDARDS AND TO CITY OF OTTAWA'S SATISFACTION.
2. EROSION AND SEDIMENT CONTROL PLAN
  - 2.1 THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATER COURSE DURING CONSTRUCTION ACTIVITIES. THIS INCLUDES LIMITING THE AMOUNT OF EXPOSED SOIL USING SEDIMENT CAPTURE FILTER SOCK INSERTS IN CATCH BASINS AND MANHOLES AND INSTALLING SILT FENCES AND OTHER EFFECTIVE SEDIMENT TRAPS. DO NOT REMOVE UNTIL CONSTRUCTION IS COMPLETE.
  - 2.2 PRIOR TO COMMENCEMENT OF CONSTRUCTION AT ALL EXISTING CATCH BASINS ADJACENT TO THE SITE AND AT ALL MANHOLES OR CATCH BASINS THAT WILL RECEIVE DISCHARGE FROM DE-WATERING OPERATIONS AND ALL NEW CATCH BASINS AS THEY ARE INSTALLED, INSTALL SEDIMENT CAPTURE FILTER SOCK INSERTS (TERRAFIX GEOSYNTHETICS INC SILT SOCK APPROVED) REMOVE STRUCTURE OR INSTALL OF EACH DAY AND AFTER EACH RAINFALL REMOVE SEDIMENT AS RECOMMENDED BY THE MANUFACTURER, IMMEDIATELY REPAIR OR REPLACE ANY DAMAGED FILTER SOCK INSERTS. DO NOT REMOVE UNTIL CONSTRUCTION IS COMPLETE.
  - 2.3 ANY MATERIAL DEPOSITED ON A PUBLIC ROAD SHALL BE REMOVED BY SWEEPING AND SHOVELING OR VACUUMING AND DISPOSING SEDIMENT IN A CONTROLLED AREA. DO NOT SWEEP OR HOSE MATERIAL INTO ANY STORMWATER CONVEYANCE SYSTEM.
  - 2.4 IMPLEMENT WATER SPRAYING AND OTHER DUST SUPPRESSION MEASURES WHEN DUST GENERATING ACTIVITIES ARE TAKING PLACE.
  - 2.5 CONSTRUCTION IS CONSIDERED COMPLETE WHEN THE FOLLOWING CONDITIONS HAVE BEEN MET:
    - A. ALL STRUCTURES HAVE BEEN BUILT.
    - B. ALL HARD SURFACES HAVE BEEN CONSTRUCTED.
    - C. ALL PROPOSED GRASSED AREAS ARE EITHER SODDED OR HAVE A FULL COVERAGE OF WELL ESTABLISHED TURF AND HAVE HAD A MINIMUM OF ONE FULL GROWING SEASON (MAY 15TH TO SEPTEMBER 15TH).
    - D. THERE ARE NO AREAS OF EXPOSED EARTH.
    - E. ALL STOCKPILED MATERIALS HAVE BEEN REMOVED.
  - 2.6 REMOVE EROSION AND SEDIMENT CONTROL MEASURES WHEN CONSTRUCTION IS COMPLETE.
3. GRADING & DRAINAGE
  - 3.1 NEW GRADES TO MATCH EXISTING AT PROPERTY LINE. NO EXCESS DRAINAGE WILL BE DIRECTED TOWARDS THE ADJACENT PROPERTIES DURING OR AFTER CONSTRUCTION. THERE WILL BE NO ALTERATION TO EXISTING GRADE AND DRAINAGE PATTERNS ON PROPERTY LINE.
  - 3.2 ALL AREAS SHALL BE GRADED TO ENSURE ADEQUATE DRAINAGE AWAY FROM BUILDINGS TO CATCH BASINS, SWALES, DITCHES AND OTHER APPROVED DISPOSAL AREAS. GRADING SHALL BE GRADUAL BETWEEN FINISHED SPOT ELEVATIONS SHOWN ON DRAWINGS TO PREVENT PONDING (OTHER THAN PONDING REQUIRED FOR STORMWATER MANAGEMENT).
  - 3.3 WHETHER RESULT OF POOR WORKMANSHIP OR DAMAGE: DEFECTIVE GRADING SHALL BE CORRECTED.
  - 3.4 CONCRETE CURBS SHALL BE CONSTRUCTED TO CITY OF OTTAWA DRAWING NO. SC1.1. CONCRETE SIDEWALK SHALL BE CONSTRUCTED TO CITY OF OTTAWA DRAWING NO. SC4. CONCRETE CURBS WITH CONCRETE SIDEWALK SHALL BE CONSTRUCTED TO CITY OF OTTAWA DRAWING NO. SC1.4. MONOLITHIC CONCRETE CURB AND SIDEWALK SHALL BE CONSTRUCTED TO CITY OF OTTAWA DRAWING NO. SC2. PEDESTRIAN CURB RAMP SHALL BE CONSTRUCTED TO CITY OF OTTAWA DRAWING NO. SC22 WITH 150 mm THICK GRANULAR A BASE, 150 mm THICK GRANULAR B REINFORCING AND 150mm x 150mm MWS-1) AND SHALL BE C/W TACTILE WALKING SURFACE INDICATOR (TWSI) ALL IN ACCORDANCE WITH CITY OF OTTAWA ACCESSIBILITY DESIGN STANDARDS. TWSI SHALL BE INSTALLED AS PER CITY OF OTTAWA DRAWING NO. SC7.3. DEPRESSED CONCRETE CURBS FOR PEDESTRIAN TRAFFIC SHALL BE 0 mm. CONCRETE CURBS SHALL BE TO CITY OF OTTAWA SPECIFICATION SECTION F-35.3. CONCRETE SHALL BE TO CITY OF OTTAWA SPECIFICATION SECTION F-35.1. CONCRETE SHALL BE CSA 32 MPa, CLASS C-2. THE AIR ENTRAINMENT SHALL BE 5% TO 8% PRIOR TO PLACEMENT AND THE SLUMP SHALL BE LESS THAN 40 mm ± 20 mm FOR EXTRUDED CONCRETE CURBS AND LESS THAN 90 mm FOR PLACED CONCRETE CURBS AND SIDEWALK.
  - 3.5 WHETHER RESULT OF POOR WORKMANSHIP, USE OF DEFECTIVE PRODUCTS OR DAMAGE: DEFECTIVE PORTIONS OF CURBS, SIDEWALK AND ASPHALT SHALL BE CORRECTED OR REMOVED AND REPLACED.
4. SITE SERVICES
  - 4.1 EXISTING WATER SERVICE CONNECTIONS TO BE ABANDONED SHALL BE BLANKED AT WATERMAIN. CONTRACTOR SHALL PROVIDED EXCAVATION, BEDDING AND REINSTATEMENT. EXISTING SEWER SERVICE CONNECTIONS SHALL BE ABANDONED AS PER CITY OF OTTAWA STANDARDS AND CITY DRAWING S11.4. INSTALL A WATERTIGHT CAP AT OPEN ENDS OF ANY EXISTING ABANDONED SEWER OR UNDERGROUND PIPE OR CONDUIT ENCOUNTERED, AT ANY EXISTING ABANDONED UNDERGROUND STRUCTURE EXCEPT WHERE INSTALL A WATERTIGHT BULKHEAD AT OPEN ENDS OF STRUCTURE.
  - 4.2 WATER METER SHALL BE INSTALLED AS PER CITY OF OTTAWA DWG. No. W31.
  - 4.3 ALL WATERMANS AND WATER SERVICE MATERIALS AND CONSTRUCTION METHODS TO CITY OF OTTAWA STANDARDS AND ONTARIO PROVINCIAL STANDARDS SPECIFICATIONS (OPSS & OPSD). WATERMAIN AND WATER SERVICE MATERIALS SHALL BE PVC DR18 TO AWMA C-900, CSA B137.3 & CITY OF OTTAWA STANDARDS. METALLIC WARNING TAPE SHALL BE INSTALLED OVER ALL WATERMANS. PROVIDE THRUST BLOCKS AS PER CITY OF OTTAWA DWG. No. W25.3 & W25.4 AT ALL VALVES, TEES, CAPS, BENDS, REDUCERS AND HYDRANTS OR OTHER FITTINGS WHERE CHANGES OCCUR IN PIPE DIAMETER OR DIRECTION. RESTRAINING AS PER AS PER CITY OF OTTAWA DWG. No. W25.5 & W25.6 ALL CONNECTIONS, RESTRAINT RODS AND VALVE BOLTS TO BE STAINLESS STEEL. CATHODIC PROTECTION & ANODE INSTALLATION AS PER CITY OF OTTAWA DWG. No. W40, W42, W44 & W47.
  - 4.4 PROVIDE A MINIMUM 2.4 m COVER OVER WATER SERVICE CONNECTIONS AND WATERMAIN. WHERE THE MINIMUM COVER IS NOT POSSIBLE INSULATE AS PER CITY OF OTTAWA DWG. No. W22.
  - 4.5 WHERE LESS THAN 2.4 m CLEARANCE FROM AN OPEN STRUCTURE (EG. MANHOLES, CATCH BASINS & WINDOW WELLS) PLACE INSULATION AROUND WATERMAIN AND WATER SERVICE CONNECTIONS AS PER CITY OF OTTAWA DWG. No. W23.
  - 4.6 WATER SERVICES AND WATERMAIN INSTALLED PARALLEL TO A SEWER SHALL BE LAID WITH A MINIMUM 2.5m BARREL TO BARREL HORIZONTAL SEPARATION FROM SEWERS AND SEWER MANHOLES.
  - 4.7 THE WATERMAIN AND WATER SERVICE CONNECTIONS SHALL CROSS ABOVE A SEWER AS PER CITY OF OTTAWA DRAWING No. W25.2; PROVIDE A MINIMUM 250mm BARREL TO BARREL SEPARATION. IF IT IS NOT POSSIBLE FOR THE WATERMAIN TO CROSS ABOVE A SEWER THE WATERMAIN SHALL CROSS BELOW THE SEWER AS PER CITY OF OTTAWA DRAWING No. W25; PROVIDE A MINIMUM 500m BARREL TO BARREL VERTICAL SEPARATION AND ENSURE THAT THE WATER PIPE IS CENTERED AT THE POINT OF CROSSING SO JOINTS ARE AS FAR AS POSSIBLE FROM THE SEWER.
  - 4.8 INSTALL FIRE HYDRANT AS PER CITY OF OTTAWA DWG. No. W19. LOCATE FIRE HYDRANT LEAD 2m FROM OUTSIDE EDGE OF CATCH BASINS AND MANHOLES. LOCATE FIRE HYDRANT 1.5 TO 2.5m FROM FACE OF CURB. THE HYDRANT SHALL BE INSTALL WITH THE BREAKABLE FLANGE 50mm TO 150mm ABOVE FINISHED GRADE. THERE SHALL BE NO VEGETATION OR OTHER OBSTRUCTIONS IN FRONT OF HYDRANT AND WITHIN 1.5m OF FIRE HYDRANT. THE FIRE HYDRANT SHALL BE RED WITH WHITE BONNETS AND CAPS TO CITY STANDARDS. AT THE END OF CONSTRUCTION
  - 4.9 ALL SEWER MATERIALS AND CONSTRUCTION METHODS TO CITY OF OTTAWA STANDARDS AND ONTARIO PROVINCIAL STANDARDS SPECIFICATIONS (OPSS & OPSD). SEWER MATERIAL SHALL BE PVC OR REINFORCED CONCRETE. PVC SEWERS SHALL BE SDR-35 (SDR-28 FOR DIAMETERS 150mm OR LESS) AND SHALL CONFORM TO CSA B182.2 AND SHALL HAVE BELL AND SPIGOT JOINTS WITH RUBBER GASKETS. REINFORCED CONCRETE SEWERS SHALL CONFORM TO CSA 257.2 CL 50-D WITH RUBBER GASKETS TO CSA A-257.2.
  - 4.10 SEWERS SHALL HAVE A MINIMUM 2.0m OF COVER OR SHALL BE INSULATED AS PER DETAIL OR CITY OF OTTAWA STANDARD DRAWING S35.
  - 4.11 THE SANITARY BUILDING DRAIN SHALL BE INSTALLED WITH A NORMALLY OPEN FULL-PORT BACKWATER VALVE TO CITY OF OTTAWA STANDARDS AND TO CITY OF OTTAWA DWG. No. S14.1 OR S14.2. THE BACKWATER VALVE SHALL BE INSTALLED SO THAT ALL PLUMBING FIXTURES ABOVE THE EXTERIOR GRADE ELEVATION DRAINS TO THE DOWNSTREAM SIDE OF THE VALVE AND ALL FIXTURES BELOW THE EXTERIOR GRADE ELEVATION DRAINS TO THE UPSTREAM SIDE OF THE VALVE.
  - 4.12 THE STORM DRAIN SERVING THE FOUNDATION DRAINS SHALL BE INSTALLED WITH A NORMALLY CLOSED BACKWATER VALVE TO CITY OF OTTAWA STANDARDS AND TO CITY OF OTTAWA DWG. No. S14.
  - 4.13 MANHOLES & CATCH BASINS:
    - A. PRECAST MANHOLE UNITS: TO OPSS 1351 AND OPSD 701.010 WITH BASE SLAB OR MONOLITHIC BASE. TOP SECTIONS ECCENTRIC CONE OR FLAT LAB TOP TYPE WITH OPENING OFFSET FOR VERTICAL LADDER INSTALLATION.
    - B. MANHOLE STEPS: TO OPSS 405.01
    - C. ADJUSTING RINGS: TO ASTM C 478M.
    - D. ALUMINUM SURFACES IN CONTACT WITH OR CAST INTO CONCRETE SHALL HAVE POLYETHYLENE ANCHOR INSULATING SLEEVES.
    - E. PRECAST CATCH BASIN SECTIONS: TO OPSS 1351.
    - F. JOINTS: SHALL BE MADE WATERTIGHT USING BUTYL BASED, FLEXIBLE WATERSTOP/JOINT SEALANT MATERIAL.
    - G. SANITARY SEWERS: BENCH TO PROVIDE A SMOOTH U-SHAPED CHANNEL PER OPSD 701.021. SLOPE INVERT TO ESTABLISH SEWER GRADE.
    - H. STORM SEWERS: MANHOLES SHALL HAVE A 300mm SUMP AND CATCH BASINS AND DITCH INLETS SHALL HAVE A 600mm SUMP.
    - I. FRAMES, GRATES AND COVERS TO CITY OF OTTAWA DRAWINGS OR OPSD (AS PER CATCH BASIN & MANHOLE SCHEDULE). GRATES AND COVERS TO BEAR EVENLY ON FRAMES.
    - J. GRANULAR BEDDING AND BACKFILL: OPSS GRANULAR A. RE-CYCLED GRANULAR MATERIALS ARE NOT PERMITTED.
    - G. PRIOR TO INSTALLATION SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW.
  - 4.14 AS INDICATED ON PLANS: AT ALL CATCH BASINS AND CATCH BASIN MANHOLES PROVIDE MINIMUM 3m LONG, 150mm DIAMETER, PERFORATED SUB-DRAINS AT THE SUB-GRADE LEVEL; HDPE C/W FILTER FABRIC SOCK & END PLUG (BOSS 1000 OR APPROVED EQUAL).
  - 4.15 ROOF DRAINS SHALL BE FLOW CONTROL TYPE EACH INSTALLED WITH A WEIR WITH A PARABOLIC SLOT, EACH SLOT SHALL RELEASE 5 USgpm/inch. OPENING AT TOP OF FLOW CONTROL WEIR SHALL BE A MINIMUM 50mm IN DIAMETER; WATTS ROOF DRAIN WITH WATTS ACCUTROL WEIR RD-100-A1 OR APPROVED EQUAL. PRIOR TO INSTALLATION SUBMIT SHOP DRAWING TO ENGINEER FOR REVIEW.
  - 4.16 RAINWATER LEADERS (RWL) INSIDE BUILDING SHALL BE CONSTRUCTED TO WITHSTAND THE PRESSURE FROM A WATER COLUMN THE HEIGHT OF THE RWL. CONDUCT A PRESSURE TEST ON THE SYSTEM AS PER THE MECHANICAL ENGINEER'S INSTRUCTIONS (SEE MECHANICAL).
  - 4.17 THE INLET CONTROL DEVICE (ICD) LOCATED AT THE OUTLET PIPE OF CATCH BASIN / MANHOLE CB/MH-8 SHALL BE A FRAMED SLIDING PLATE TYPE WITH A ROUND ORIFICE (LOCATED AT THE BOTTOM OF THE PLATE) WITH THE FRAME BOLTED TO THE MANHOLE) MANUFACTURED BY PEDRO PLASTICS (OR APPROVED EQUAL). THE ICD SHALL BE SIZED BY THE MANUFACTURER FOR A DISCHARGE RATE AS INDICATED ON PLAN. THE PLATE SHALL BE REMOVABLE FOR MAINTENANCE AND AND SHALL BE RE-INSTALLED AFTER MAINTENANCE. PRIOR TO INSTALLATION SUBMIT SHOP DRAWING TO ENGINEER FOR REVIEW.
5. CONSTRUCTION:
  - 5.1 PRIOR TO COMMENCING WORK:
    - A. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE AUTHORITIES.
    - B. SIZE, DEPTH AND LOCATION OF EXISTING INFRASTRUCTURE (SERVICES, UTILITIES, AND STRUCTURES) AND ARE NOT NECESSARILY SHOWN ON DRAWINGS AND THOSE INDICATED ON THE DRAWINGS ARE DERIVED FROM AVAILABLE INFORMATION AND ARE FOR GUIDANCE ONLY AND MUST BE CONFIRMED ON SITE BEFORE COMMENCING ANY WORK. COMPLETENESS AND ACCURACY ARE NOT GUARANTEED. NOTIFY ALL APPLICABLE OWNERS, UTILITY COMPANIES AND AUTHORITIES HAVING JURISDICTION AT THE BOTTOM OF THE PLATE) WITH THE FRAME BOLTED TO THE MANHOLE) MANUFACTURED BY PEDRO PLASTICS (OR APPROVED EQUAL). THE ICD SHALL BE SIZED BY THE MANUFACTURER FOR A DISCHARGE RATE AS INDICATED ON PLAN. THE PLATE SHALL BE REMOVABLE FOR MAINTENANCE AND AND SHALL BE RE-INSTALLED AFTER MAINTENANCE. PRIOR TO INSTALLATION SUBMIT SHOP DRAWING TO ENGINEER FOR REVIEW.
    - C. EXISTING GRADE ELEVATIONS SHOWN ON DRAWINGS ARE DERIVED FROM AVAILABLE INFORMATION AND ARE FOR GUIDANCE ONLY AND MUST BE CONFIRMED ON SITE BEFORE COMMENCING CONSTRUCTION. COMPLETENESS AND ACCURACY ARE NOT GUARANTEED. REPORT ANY DIFFERENCES TO ENGINEER.
    - D. COORDINATE AND SCHEDULE WORK WITH THE OWNER, AUTHORITIES AND OTHER TRADES.
    - E. SCHEDULE WORK TO PROVIDE THE MINIMUM DISRUPTION TO SERVICES.
    - F. INSTALL CONSTRUCTION FENCING AROUND THE AREA OF WORK. DO NOT REMOVE FENCING UNTIL WORK IS COMPLETE.
  - 5.2 MAINTAIN AND PROTECT FROM DAMAGE, SERVICES, UTILITIES AND STRUCTURES ENCOUNTERED.
  - 5.3 PROTECT EXISTING BUILDINGS, TREES AND OTHER PLANTS, LAWNS, FENCING, SERVICE POLES, WIRES, PAVEMENT, SURVEY BENCH MARKS AND MONUMENTS AND OTHER SURFACE FEATURES FROM DAMAGE WHILE WORK IS IN PROGRESS. DO NOT DISTURB SOIL WITHIN BRANCH SPREAD OF TREES OR SHRUBS THAT ARE TO REMAIN.
  - 5.4 PROVIDE TRAFFIC CONTROL AND SAFETY MEASURES AS REQUIRED BY THE AUTHORITIES, INCLUDING: SIGNAGE, CHANNEL AND THE SUPPLY, INSTALLATION, REMOVAL AND REPLACEMENT OF ALL NECESSARY SIGNAGE AND BARRIERS. IF APPLICABLE, PROVIDE TRAFFIC MANAGEMENT PLAN AS PER CITY OF OTTAWA REQUIREMENTS.

- 5.5 FENCE OFF ALL OPEN EXCAVATIONS AT THE END OF EACH WORK DAY. FENCES SHALL BE INSTALLED AND MAINTAINED A GOOD AND EFFECTIVE CONDITION.
- 5.6 REMOVE OBSTRUCTIONS, ICE AND SNOW, FROM SURFACES TO BE EXCAVATED.
- 5.7 CUT PAVEMENT AND / OR SIDEWALK NEARLY ALONG LIMITS OF PROPOSED EXCAVATION IN ORDER THAT SURFACE MAY BREAK EVENLY AND CLEANLY.
- 5.8 COORDINATE AND PAY FOR GEOTECHNICAL INSPECTIONS AND COMPACTION TESTS OF: SERVICING TRENCHES (SUB-GRADE, PIPE BEDDING AND EACH LAYER OF SURROUND MATERIAL AND BACKFILL); AND PAVEMENT STRUCTURES (SUB-GRADE, SUB-BASE, BASE AND ASPHALT); TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT AND ENGINEER. SUBMIT GEOTECHNICAL INSPECTIONS AND COMPACTION REPORTS TO ENGINEER FOR REVIEW. A MINIMUM ONE SET OF INSPECTIONS AND COMPACTION TESTS SHALL BE COMPLETED ON EACH PIPE SEGMENT GREATER THAN 15 m IN LENGTH. A MINIMUM ONE SET OF INSPECTION AND COMPACTION TESTS SHALL BE COMPLETED FOR EVERY 400 m<sup>2</sup> OF PAVEMENT AREA.
- 5.9 CUT AND FILL AS NECESSARY TO ACHIEVE THE PROPOSED GRADE ELEVATIONS. DISPOSE OF SURPLUS AND UNSUITABLE EXCAVATED MATERIAL OFF SITE. ANY REQUIRED FILL SHALL BE CLEAN WELL GRADED SAND TO OPSS 1004 UNLESS OTHERWISE DIRECTED BY GEOTECHNICAL CONSULTANT. FILL SHALL BE COMPACTED TO NOT LESS THAN 95% CORRECTED MAXIMUM DRY DENSITY. FILL MATERIAL AND THE PLACEMENT AND COMPACTION OF THE FILL MATERIAL AS PER THE GEOTECHNICAL REPORT AND TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT. PLACE MATERIAL IN UNIFORM LAYERS NOT EXCEEDING 300mm COMPACTED THICKNESS.
- 5.10 PROTECT WORK AREA AGAINST FLOODING AND DAMAGE DUE TO SURFACE RUN-OFF. DEWATER AS REQUIRED TO KEEP WORK AREA FREE OF WATER. DISCHARGE FROM DEWATERING OPERATIONS SHALL BE DIRECTED TO A SEDIMENT CONTROL MEASURE AND/OR A VEGETATED DISCHARGE AREA. ENSURE THAT THE DISCHARGED WATER DOES NOT CAUSE EROSION OR OTHER DAMAGE TO ADJACENT LANDS.
- 5.11 EXCAVATION, TRENCHING, & BACKFILL:
  - A. SHORE AND BRACE EXCAVATIONS, PROTECT SLOPES AND BANKS AND PERFORM ALL WORK IN ACCORDANCE WITH ONTARIO REGULATION 213/91 UNDER THE ONTARIO OCCUPATIONAL HEALTH AND SAFETY ACT AND OTHER AUTHORITIES HAVING JURISDICTION.
  - B. KEEP EXCAVATIONS FREE OF WATER WHILE WORK IS IN PROGRESS. PROTECT OPEN EXCAVATIONS AGAINST FLOODING AND DAMAGE DUE TO SURFACE RUN-OFF.
  - C. EXCAVATION SHALL NOT INTERFERE WITH BEARING CAPACITY OF ADJACENT FOUNDATIONS.
  - D. DO NOT OBSTRUCT FLOW OF SURFACE DRAINAGE OR NATURAL WATERCOURSES.
  - E. EXCAVATE TO LINES, GRADES, ELEVATIONS AND DIMENSIONS AS INDICATED.
  - F. EARTH BOTTOMS OF EXCAVATIONS TO BE UNDISTURBED SOIL, LEVEL, FREE FROM LOOSE, SOFT OR ORGANIC MATTER.
  - G. ALL STRUCTURES WITHIN PAVED AREAS SHALL HAVE 4:1 FROST TAPERS FROM FROST LINE TO SUB-GRADE.
  - H. CORRECT OVER-EXCAVATION WITH GRANULAR A COMPACTED TO NOT LESS THAN 95% CORRECTED MAXIMUM DRY DENSITY.
  - I. SUB-GRADE AND AREAS TO BE BACKFILLED TO BE FREE FROM DEBRIS, SNOW, ICE, WATER AND FROZEN GROUND.
  - J. DO NOT USE BACKFILL MATERIAL WHICH IS FROZEN OR CONTAINS ICE, SNOW OR DEBRIS.
  - K. PIPE BEDDING AND SURROUND MATERIAL SHALL BE OPSS GRANULAR A. SURROUND MATERIAL FOR CONCRETE PIPE MAY BE CLEAN WELL GRADED SAND. RE-CYCLED GRANULAR MATERIALS ARE NOT PERMITTED.
  - L. DO NOT USE BEDDING, SURROUND OR BACKFILL MATERIAL WHICH IS FROZEN OR CONTAINS ICE, SNOW OR DEBRIS.
  - M. PIPE BEDDING SHALL BE 150mm THICK. SHAPE BED TRUE TO GRADE AND TO PROVIDE CONTINUOUS, UNIFORM BEARING SURFACE FOR PIPE.
  - N. PLACE SURROUND MATERIAL AROUND PIPES TO FULL WIDTH OF TRENCH AND TO 300mm ABOVE PIPES.
  - O. PLACE BEDDING AND SURROUND MATERIAL IN UNIFORM LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS. PLACE FILL AND BACKFILL MATERIAL IN UNIFORM LAYERS NOT EXCEEDING 300mm COMPACTED THICKNESS.
  - P. COMPACT EACH LAYER TO 95% OF CORRECTED DRY DENSITY BEFORE PLACING SUCCEEDING LAYER.
  - Q. DO NOT BACKFILL AROUND OR OVER CAST-IN-PLACE CONCRETE WITHIN 24 HOURS AFTER PLACING OF CONCRETE.
  - R. BACKFILL MATERIALS WITHIN 1.8m OF PROPOSED GRADE SHALL MATCH THE MATERIALS EXPOSED ON THE TRENCH WALLS. BACKFILL BELOW 1.8m OF THE PROPOSED CAN CONSIST OF EITHER ACCEPTABLE NATIVE MATERIAL; ROCK; OR IMPORTED GRANULAR MATERIAL CONFORMING TO OPSS GRANULAR B TYPE I OR II. ANY ORGANIC SOILS OR TOPSOIL, IF ENCOUNTERED, SHALL BE REMOVED FROM THE EXCAVATION. IF ROCK IS USED AS BACKFILL IT SHALL BE WELL SHATTERED AND GRADED AND 20mm OR SMALLER IN DIAMETER TO PREVENT INGRESS OF FINE MATERIAL INTO VOIDS IN THE ROCK FILL. THE UPPER SURFACE OF THE ROCK FILL SHALL BE COVERED WITH 150mm LAYER OF COMPACTED, WELL GRADED CRUSHED STONE PLACED ON GEOTEXTILE FABRIC.
- 5.12 PIPES:
  - A. HANDLE PIPE USING METHODS APPROVED BY MANUFACTURER.
  - B. LAY, CUT AND JOIN PIPES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
  - C. USE ONLY FITTINGS AS RECOMMENDED BY PIPE MANUFACTURER.
  - D. LAY PIPES ON PREPARED BED, TRUE TO LINE AND GRADE AND ENSURE BARREL OF EACH PIPE IS IN CONTACT WITH SHAPED BED THROUGHOUT ITS FULL LENGTH, AND REPAIR AND RESET SEWER LINE AS REQUIRED.
  - E. DO NOT EXCEED MAXIMUM JOINT DEFLECTION RECOMMENDED BY PIPE MANUFACTURER.
  - F. WHENEVER WORK IS SUSPENDED, INSTALL REMOVABLE WATERTIGHT BULKHEAD AT OPEN END OF LAST PIPE LAID TO PREVENT ENTRY OF FOREIGN MATERIALS.
  - G. WHEN STOPPAGE OF WORK OCCURS, BLOCK PIPES TO PREVENT CREEP DURING DOWN TIME. MAKE WATERTIGHT CONNECTIONS TO MANHOLES.
  - H. JOINTS SHALL BE STRUCTURALLY SOUND AND WATERTIGHT.
  - I. REPAIR OR REPLACE PIPE, PIPE JOINT OR BEDDING FOUND DEFECTIVE.
- 5.13 SEWERS AND SEWER SERVICE CONNECTIONS:
  - A. CONSTRUCT TRENCHES AS PER CITY DWG S6 & S7.
  - B. RIGID STRUCTURES, INSTALL PIPE JOINTS NOT MORE THAN 1.2 m FROM SIDE OF STRUCTURE.
  - C. MAINTAIN EXISTING SEWAGE FLOWS DURING CONSTRUCTION.
  - D. PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. SPECIFICALLY, THE LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410. REPAIR AND RESET SEWER LINE AS REQUIRED. REPAIR VISIBLE LEAKS RESTLESS OF TEST RESULTS.
  - E. CONDUCT TWO CCTV INSPECTIONS OF SEWERS. FIRST INSPECTION AFTER COMPLETION OF CONSTRUCTION, SECOND INSPECTION IMMEDIATELY PRIOR TO END OF WARRANTY PERIOD. A PAN AND TILT CAMERA SHALL BE USED. REPAIR SEWER LINE AS REQUIRED. SUBMIT REPORTS AND DVDS TO ENGINEER.
  - F. CONDUCT DYE TEST OF SANITARY SEWERS AND COORDINATE WITH ENGINEER. DYE TEST SHALL BE WITNESSED BY ENGINEER.
- 5.14 WATERMANS AND WATER SERVICE CONNECTIONS:
  - A. CONSTRUCT TRENCHES AS PER CITY DWG W17.
  - B. INSTALL AND TEST TRACER WIRE ON THE WATER SERVICE CONNECTION AS PER 4.3.12 OF THE CITY OF OTTAWA WATER DISTRIBUTION DESIGN GUIDELINES AND DRAWING W36.
  - C. PRESSURE TESTING AS PER AWMA C-605-5 AND CITY OF OTTAWA DESIGN GUIDELINES - WATER DISTRIBUTION SECTION 4.6.13.
  - D. CHLORINATION AS PER AWMA C-651-05 AND CITY OF OTTAWA DESIGN GUIDELINES - WATER DISTRIBUTION SECTION 4.6.13 & CITY DWG. W46.
- 5.15 MANHOLES & CATCH BASINS:
  - A. JOINTS: SHALL BE MADE WATERTIGHT.
  - B. SET PRECAST CONCRETE BASE ON 150mm MINIMUM OF GRANULAR BEDDING COMPACTED TO 100% CORRECTED MAXIMUM DRY DENSITY.
  - C. MAKE EACH JOINT WATERTIGHT WITH RUBBER RING GASKETS.
  - D. PLACE GRANULAR BACKFILL MATERIALS IN A UNIFORM LAYERS TO COMPACTED THICKNESS OF 150mm, COMPACT TO 95% CORRECTED MAXIMUM DRY DENSITY.
  - E. PLACE FRAME AND COVER ON TOP SECTION TO ELEVATION AS INDICATED. IF ADJUSTMENT REQUIRED USE CONCRETE RINGS TO A MAXIMUM OF 300mm.
  - F. CLEAN UNITS OF DEBRIS, FOREIGN AND SURPLUS MATERIALS. REMOVE FINIS AND SHARP PROJECTIONS. PREVENT DEBRIS FROM ENTERING SYSTEM.
  - G. PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. SPECIFICALLY, THE LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 407.
- 5.17 MAINTAIN RECORD DRAWINGS AND ACCURATELY RECORD DEVIATIONS FROM THE ORIGINAL CONTRACT DOCUMENTS CAUSED BY SITE CONDITIONS AND CHANGES MADE BY CHANGE ORDER OR ADDITIONAL INSTRUCTIONS. UPDATE DAILY AND MAKE AVAILABLE ON-SITE FOR REVIEW THROUGHOUT THE CONSTRUCTION PERIOD. RECORD DRAWINGS SHALL INCLUDE BUT NOT NECESSARILY LIMITED TO CHANGES TO DIMENSION AND DETAIL; CHANGES TO GRADE ELEVATIONS; AND HORIZONTAL AND VERTICAL LOCATIONS OF UNDERGROUND SERVICES, UTILITIES AND APPURTENANCES REFERENCED TO A PERMANENT SURFACE STRUCTURE. SUBMIT DRAWINGS TO ENGINEER AT THE END OF CONSTRUCTION. SUBMIT A RECORD DRAWING OF "AS-BUILT" GRADE ELEVATIONS, PREPARED BY AN OLS SURVEYOR, TO THE ENGINEER AT THE END OF CONSTRUCTION.
- 5.18 REINSTATE ALL AREAS DISTURBED BY CONSTRUCTION. REINSTATE PAVEMENTS, CURBS AND SIDEWALKS, TO THICKNESS, STRUCTURE AND ELEVATION WHICH EXISTED BEFORE CONSTRUCTION. REINSTATE LANDSCAPED AREAS TO THE CONDITION AND ELEVATION WHICH EXISTED BEFORE CONSTRUCTION.
- 5.19 CLEAN AND REINSTATE AREAS AFFECTED BY THE WORK.

**6. PAVEMENT**

- 6.1 PAVEMENT STRUCTURE:
  - 60mm SUPERPAVE 12.5 ASPHALTIC CONCRETE
  - 150mm OPSS GRANULAR A BASE
  - 300mm OPSS GRANULAR B TYPE II SUB-BASE
  - HEAVY DUTY PAVEMENT:
  - 40mm SUPERPAVE 12.5 ASPHALTIC CONCRETE
  - 50mm SUPERPAVE 19.0 ASPHALTIC CONCRETE
  - 150mm OPSS GRANULAR A BASE
  - 450mm OPSS GRANULAR B TYPE II SUB-BASE
- 6.2 OPSS GRANULAR A AND OPSS GRANULAR B SHALL BE TO OPSS 1010. RE-CYCLED GRANULAR MATERIALS ARE NOT PERMITTED. ASPHALTIC CONCRETE SHALL BE TRAFFIC CATEGORY B, PERFORMANCE GRADE PG58-34. HOT MIX ASPHALT MATERIALS SHALL BE ACCORDING TO OPSS 1150 OR 1151. PAVEMENT SUB-GRADE PREPARATION AND CONSTRUCTION OF THE PAVEMENT STRUCTURE SHALL CONFORM TO THE GEOTECHNICAL INVESTIGATION TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
- 6.3 ALL EXISTING ASPHALT TO BE REMOVED SHALL BE HAULED TO A FACILITY APPROVED FOR ACCEPTING SUCH MATERIALS. REMOVE ALL MATERIALS TO THE SUB-GRADE LEVEL. REMOVE ORGANIC OR UNSUITABLE MATERIAL FROM SUB-GRADE WHERE ENCOUNTERED TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT. SUB-GRADE TO BE FREE FROM DEBRIS, SNOW, ICE, WATER AND FROZEN GROUND. COMPACT SUB-GRADE TO 95%.
- 6.4 CONSTRUCT GRANULAR BASE AND SUB-BASE TO DEPTH AND GRADE IN AREAS INDICATED. CONSTRUCT A 5H:1V FROST TAPER IN SUB-GRADE SURFACE AS A TRANSITION BETWEEN DIFFERING PAVEMENT STRUCTURES AND BETWEEN PAVEMENT AND CURBS AND SIDEWALKS.
- 6.5 ENSURE NO FROZEN MATERIAL IS PLACED. PLACE MATERIAL ONLY ON CLEAN UNFROZEN SURFACE, FREE FROM SNOW OR ICE.
- 6.6 PLACE MATERIAL TO FULL WIDTH IN UNIFORM LAYERS NOT EXCEEDING 300mm COMPACTED THICKNESS. SHAPE EACH LAYER TO SMOOTH CONTOUR AND COMPACT TO SPECIFIED DENSITY BEFORE SUCCEEDING LAYER IS PLACED.
- 6.7 COMPACT SUB-BASE MATERIAL TO DENSITY OF NOT LESS THAN COMPACTED TO 100% SPMD (STANDARD PROCTOR MAXIMUM DRY DENSITY). FILL OVER-EXCAVATED SUB-GRADE WITH SUB-BASE MATERIAL. COMPACT TO 100% SPMD. COMPACT BASE MATERIAL TO DENSITY NOT LESS THAN 100% SPMD.
- 6.8 IN AREAS NOT ACCESSIBLE TO ROLLING EQUIPMENT, COMPACT TO SPECIFIED DENSITY WITH MECHANICAL TAMPERS.
- 6.9 REPLACE PAVEMENT DISTURBED BY CONSTRUCTION AND REPLACE WITH PAVEMENT STRUCTURE ABOVE.
- 6.10 WHERE NEW PAVEMENT TIES INTO EXISTING PAVEMENT, LONGITUDINAL TRANSITIONS OR TAPERS SHALL BE INCORPORATED BEYOND THE CONSTRUCTION LIMITS. AT THESE JUNCTIONS, THE NEW GRANULAR LAYERS ARE RECOMMENDED TO BE TAPERED AT A 5 HORIZONTAL TO 1 VERTICAL (5:1) SLOPE TO ENSURE A SMOOTH STRUCTURAL TRANSITION. WHERE NEW ASPHALT COMES IN CONTACT WITH EXISTING PAVEMENT: SAWCUT EXISTING ASPHALT LAYER TO CREATE A CLEAN STRAIGHT EDGE. TACK COAT SHALL BE APPLIED TO ASPHALT SURFACES AT WHICH JOINTS ARE TO BE MADE INCLUDING EXISTING PAVEMENT SURFACES THAT HAVE BEEN CUT, GROUND OR MILLED. TACK COAT THE SURFACE OF ALL BINDER COURSES AND BUTTING CONCRETE SURFACES. SURFACES TO BE TACK COATED SHALL BE FREE OF STANDING WATER AND CONTAMINATION, SUCH AS MUD, LOOSE AGGREGATE OR DEBRIS AND SHALL BE DRY AND CLEAN WHEN THE TACK COAT IS APPLIED. TACK COAT SHALL BE PLACED SUFFICIENTLY AHEAD OF THE PAVING OPERATION TO ALLOW FOR CURING. PAVING AND CONSTRUCTION EQUIPMENT SHALL NOT BE PERMITTED ONTO THE TACK COAT UNTIL IT HAS SET. TACK COAT MATERIAL SHALL CONSIST OF 55-1 EMULSIFIED ASPHALT DILUTED WITH AN EQUAL VOLUME OF WATER. THE UNDILUTED MATERIAL SHALL BE ACCORDING TO OPSS 1103.
- 6.11 SHAPE BASE TO SMOOTH CONTOUR AND COMPACT TO NOT LESS THAN 100% CORRECTED MAXIMUM DRY DENSITY BEFORE BEGINNING PAVING OPERATIONS.
- 6.12 APPLY ASPHALTIC CONCRETE ONLY WHEN BASE OR PREVIOUS COURSE IS DRY AND AIR TEMPERATURE IS ABOVE 5 DEG.C
- 6.13 ROLL UNTIL ROLLER MARKS ARE ELIMINATED AND COMPACTED TO NOT LESS THAN 95% OF DENSITY. COMPACT WITH HOT TAMPERS IN AREAS INACCESSIBLE TO A ROLLER. BEVEL EDGES ADJACENT TO GRANULAR SURFACES.
- 6.14 FINISH SURFACE SMOOTH, TRUE TO GRADE.
- 6.15 KEEP VEHICULAR TRAFFIC AND OTHER LOADS OFF NEWLY PAVED AREAS UNTIL 24 HOURS AFTER PAVING.
- 6.16 DVERT UNIFORM AND WASTE ASPHALT TO A FACILITY APPROVED FOR ACCEPTING SUCH MATERIALS.
- 6.17 APPLY TRAFFIC PAINT AS IDENTIFIED ON PLAN. TRAFFIC PAINT: NON-DARKENING, HOMOGENEOUS, UNIFORM AND SMOOTH, FREE FROM SKIN, DIRT AND OTHER FOREIGN PARTICLES. APPLY TO DRY PAVEMENT SURFACE FREE FROM FROST, ICE, DUST, OIL, GREASE AND OTHER FOREIGN MATERIALS. PROTECT PAVEMENT MARKINGS UNTIL DRY.



No.	DATE	REVISION
6	JAN 23-25	REVISED PER CITY COMMENTS 2
5	NOV 7-25	ISSUED FOR ISSUED FOR TENANT REVIEW 1 (50%)
4	OCT 30-25	RE- ISSUED FOR SITE PLAN APPROVAL
3	JUL 7-25	RE- ISSUED FOR SITE PLAN APPROVAL
2	MAY 9-25	ISSUED FOR SITE PLAN APPROVAL
1	MAR 3-25	ISSUED FOR COORDINATION

**D. B. GRAY ENGINEERING INC.**  
*Stormwater Management - Grading & Drainage - Storm & Sanitary Sewers - Watermain*  
 700 Long Point Circle  
 Ottawa, Ontario  
 613-425-8044  
 d.gray@dbgrayengineering.com

**PROPOSED REDEVELOPMENT**  
**OF WESTGATE SC**  
**PHASE 1B**  
**1309 CARLING AVENUE**  
 OTTAWA, ONTARIO

Drawing Title

**NOTES**

Engineer's Seal

NOT VALID UNLESS SIGNED & DATED

Drawn D.B.G.  
 H. Scale 1:200  
 V. Scale  
 Date FEB 12-25  
 Job No. 25013

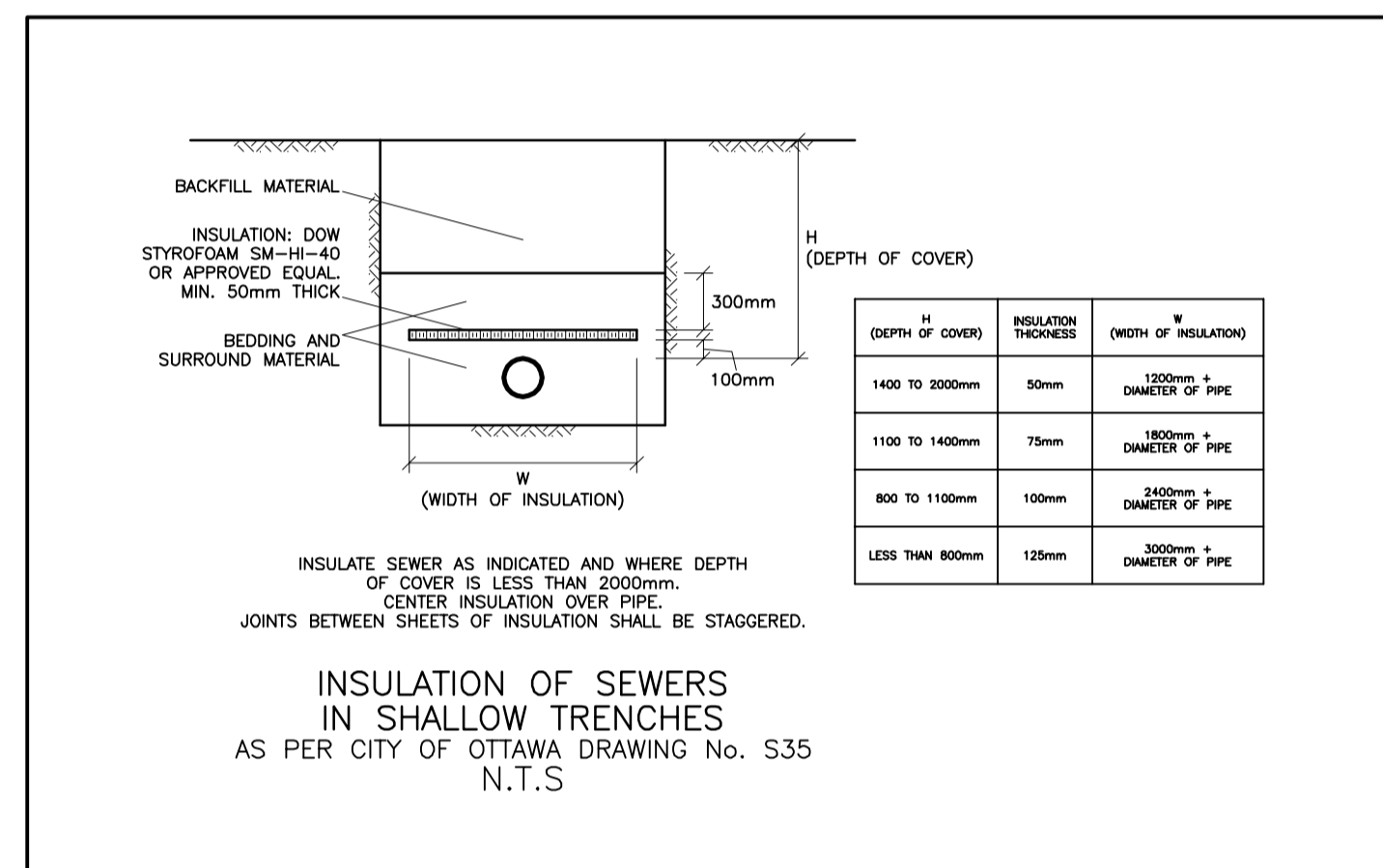
Drawing No. **C-12** of 16

File No. D07-12-25-0064

*G. Wildman*

**GERALDINE WILDMAN**  
**MANAGER, DEVELOPMENT REVIEW SOUTH**  
**PLANNING, DEVELOPMENT AND BUILDING SERVICES**  
**DEPARTMENT, CITY OF OTTAWA**

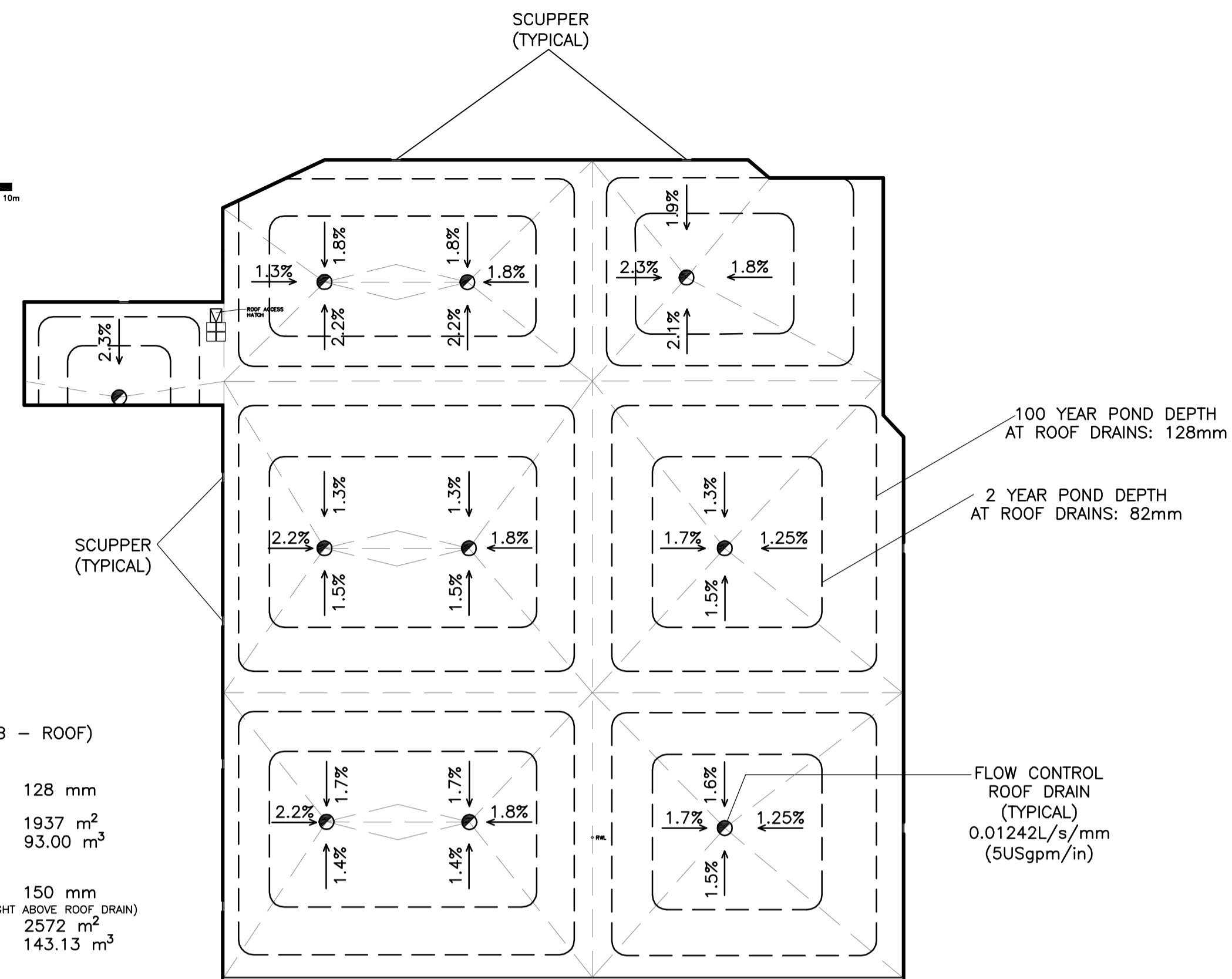
**APPROVED**  
 By wildmange at 3:35 pm, Jun 19, 2026



**DRAINAGE AREA I (PHASE 1B - ROOF)**

**100-YEAR:**  
 PONDING DEPTH: 128 mm  
 (AT ROOF DRAIN)  
 PONDING AREA: 1937 m<sup>2</sup>  
 PONDING VOLUME: 93.00 m<sup>3</sup>

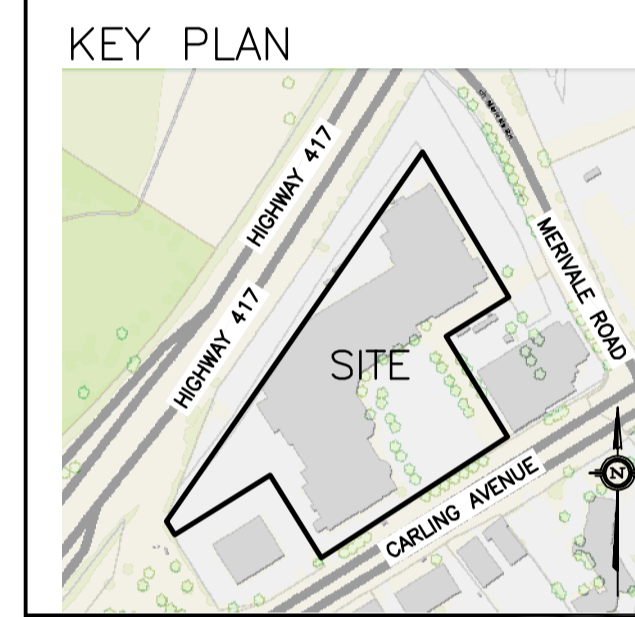
**MAXIMUM AVAILABLE:**  
 PONDING DEPTH: 150 mm  
 (AT ROOF DRAIN & SCUPPER HEIGHT ABOVE ROOF DRAIN)  
 PONDING AREA: 2572 m<sup>2</sup>  
 PONDING VOLUME: 143.13 m<sup>3</sup>



INSTALL A MINIMUM OF 10 SCUPPERS EACH A MINIMUM 760mm WIDE. BOTTOM OF SCUPPERS SHALL BE 150mm ABOVE THE ROOF DRAINS. REFER TO ARCHITECTURAL FOR EXACT LOCATIONS AND DETAILS. ROOF SHALL BE DESIGNED TO CARRY THE LOAD OF WATER HAVING A 50mm DEPTH AT SCUPPERS (i.e. 200mm DEPTH AT THE ROOF DRAINS). REFER TO STRUCTURAL.

RAINWATER LEADERS (RWL) INSIDE BUILDING SHALL BE CONSTRUCTED TO WITHSTAND THE PRESSURE FROM A WATER COLUMN THE HEIGHT OF THE RWL. CONDUCT A PRESSURE TEST ON THE SYSTEM AS PER THE MECHANICAL ENGINEER'S INSTRUCTIONS (SEE MECHANICAL).

**ROOF DRAINAGE PLAN**



No.	DATE	REVISION
5	JAN 23-25	REVISED PER CITY COMMENTS 2
4	NOV 7-25	ISSUED FOR TENANT REVIEW 1 (50%)
3	OCT 30-25	RE-ISSUED FOR SITE PLAN APPROVAL
2	MAY 9-25	ISSUED FOR SITE PLAN APPROVAL
1	MAR 3-25	ISSUED FOR COORDINATION

**D. B. GRAY ENGINEERING INC.**  
*Stormwater Management - Grading & Drainage - Storm & Sanitary Sewers - Watermain*  
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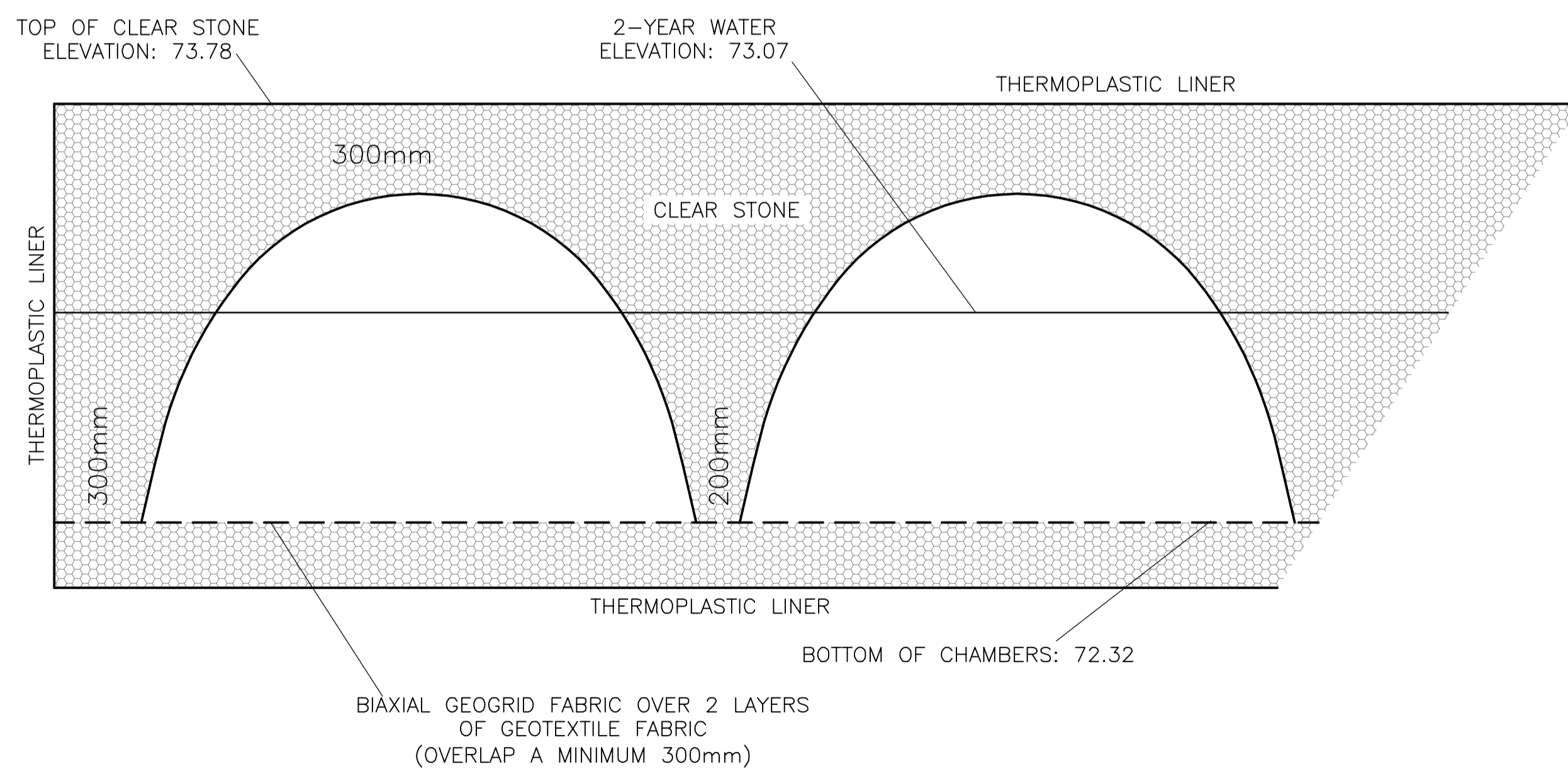
Project  
**PROPOSED REDEVELOPMENT OF WESTGATE SC PHASE 1B**  
 1309 CARLING AVENUE  
 OTTAWA, ONTARIO

Drawing Title  
**ROOF DRAINAGE PLAN & DETAILS**

NOT VALID UNLESS SIGNED & DATED

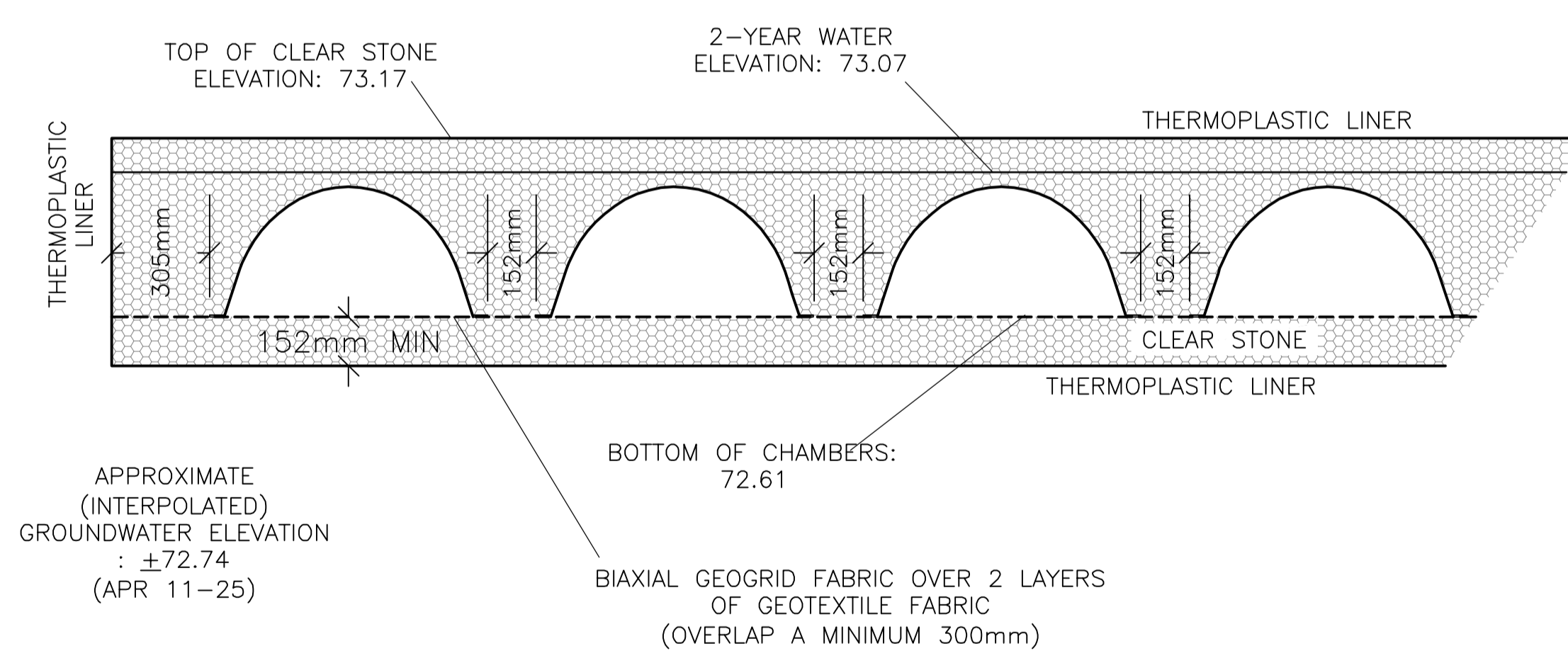
Drawn D.B.G.  
 H. Scale 1:300  
 V. Scale  
 Date FEB 12-25  
 Job No. 25013

Drawing No.  
**C-13**  
 of 16



THE SYSTEM SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS. THE THERMOPLASTIC LINER SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS TO ACHIEVE A WATERTIGHT SYSTEM.

**SOLENO HYDROSTOR HS180 CHAMBERS**  
 N.T.S



APPROXIMATE (INTERPOLATED) GROUNDWATER ELEVATION : ±72.74 (APR 11-25)

THE SYSTEM SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS. THE THERMOPLASTIC LINER SHALL BE INSTALLED AS PER THE MANUFACTURER'S RECOMMENDATIONS TO ACHIEVE A WATERTIGHT SYSTEM.

**SOLENO HYDROSTOR HS31 CHAMBERS**  
 N.T.S

*G. Wildman*

GERALDINE WILDMAN  
MANAGER, DEVELOPMENT REVIEW SOUTH  
PLANNING, DEVELOPMENT AND BUILDING SERVICES  
DEPARTMENT, CITY OF OTTAWA

**APPROVED**  
By wildmange at 3:35 pm, Jun 19, 2026

**CATCH BASIN & MANHOLE SCHEDULE**  
(SUBMIT SHOP DRAWINGS OF ALL CATCH BASINS & MANHOLES TO ENGINEER FOR APPROVAL)

REF	TOP	SIZE	TYPE	INVERT AT INLET	INVERT AT OUTLET	NOTES
<b>STORM SEWER</b>						
CB/MH-1	73.90	1200mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	72.61(NW)	72.61(SE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010
CB/MH-2	73.90	1200mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	72.49(NW)	72.49(NE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010
CB-3	73.93	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	72.70	TO OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S19
CB-4	73.50	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	72.67	TO OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S19
CB/MH-5	73.95	1200mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	72.58(NW) 72.58(NE)	72.58(SE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010
CB/MH-6	73.95	1200mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	72.48(NW)	72.48(SW)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010
MH-6A	73.95	1200mm	PRECAST CONCRETE MANHOLE	72.40(NW) 72.40(NE)	72.40(SE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24.1 OR OPSD 401.010
CB/MH-7	73.90	1200mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	72.61(NW)	72.48(SE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010
CB/MH-8	73.90	1500mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	72.38(NW) 72.38(SW) 72.38(S)	72.38(SE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010
CB-8A	73.90	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	72.47	TO OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S19
MH-9	74.10	1200mm	PRECAST CONCRETE MANHOLE	-	72.61	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24.1 OR OPSD 401.010
MH-10	74.21	1200mm	PRECAST CONCRETE MANHOLE	-	72.61	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24.1 OR OPSD 401.010
CB-11	±74.51	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	72.51	TO OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S19
CB/MH-12	±73.94	1200mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	72.36(NW) 72.41(SW)	±72.35(SE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010
CB/MH-12A	73.88	1200mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	72.57(NE)	±72.51(NE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010
CB-12B	73.85	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	72.65	TO OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S19
MH-13	±74.36	1200mm	PRECAST CONCRETE MANHOLE	72.40(N)	72.40(SE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24.1 OR OPSD 401.010
CB-13A	73.80	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	72.56	TO OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S19
MH-14	±74.17	1200mm	PRECAST CONCRETE MANHOLE	72.30(NW) 72.30(SW)	72.30(E)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24.1 OR OPSD 401.010
CB/MH-15	73.65	1200mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	72.27(NW)	72.27(SW)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010
CB/MH-16	73.87	1200mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	72.26(NE)	72.26(SE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010
MH-17	±74.04	1200mm	PRECAST CONCRETE MANHOLE	72.55(NE)	72.39(SE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24.1 OR OPSD 401.010
CB/MH-18	73.77	1200mm	PRECAST CONCRETE MANHOLE	72.30(NW)	72.27(S)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S28.1 OR OPSD 401.010
MH-19	73.83	1800mm	PRECAST CONCRETE MANHOLE	±72.25(NW) ±72.25(N) ±XX.XX(NE)	72.24(SE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24.1 OR OPSD 401.010
CB-19A	73.74	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	72.38	TO OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S19
MH-20	±74.47	1200mm	PRECAST CONCRETE MANHOLE	72.32(SW) 72.32(NW)	72.32(NE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24.1 OR OPSD 401.010
MH-21	±74.46	1200mm	PRECAST CONCRETE MANHOLE	72.32(SW)	72.32(SE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24.1 OR OPSD 401.010
MH-22	±74.40	1200mm	PRECAST CONCRETE MANHOLE	72.32(NW)	72.32(NE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24.1 OR OPSD 401.010
MH-23	±74.46	1200mm	PRECAST CONCRETE MANHOLE	72.32(SW)	72.32(SE)	TO OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER TO CITY OF OTTAWA DRAWING No. S25 & S24.1 OR OPSD 401.010

**WATERMAIN / WATER SERVICE PROFILE TABLE**

DIAMETER/MATERIAL: 200mm/PVC DR18

STATION	DESCRIPTION	GRADE ELEVATION	TOP OF PIPE	DEPTH OF COVER	NOTES
A+00.0	CONNECTION TO EXISTING 200mm PRIVATE WATERMAIN 45° HORIZONTAL BEND TO CITY OF OTTAWA STANDARDS	73.99	±71.44	±2.55	-
A+13.2	45° HORIZONTAL BEND TO CITY OF OTTAWA STANDARDS	±74.09	±71.44	±2.65	-
A+14.3 (B+00.0)	200mm x 150mm TEE (TO FIRE HYDRANT) TO CITY OF OTTAWA STANDARDS	±74.07	±71.44	±2.63	-
A+29.9	-	±74.18	±71.44	±2.74	CROSSING 200 ST U/S 72.53 HW TOP 71.44 - 1000mm CLEARANCE (MIN. 500mm REQ'D)
A+40.7	45° HORIZONTAL BEND TO CITY OF OTTAWA STANDARDS	±74.18	±71.44	±2.74	-
A+42.7 (C+00.0)	200mm x 150mm TEE TO CITY OF OTTAWA STANDARDS	±74.19	±71.44	±2.75	-
A+43.6	-	±74.19	±71.44	±2.75	ON PROPERTY LINE
A+47.9	-	±74.19	±71.44	±2.75	BOTTOM OF CURB
A+49.1	-	±74.19	±71.44	±2.75	BOTTOM OF CURB
A+56.9	CONNECTION TO EXISTING 200mm PRIVATE WATERMAIN	±73.94	±71.44	±2.50	-

DIAMETER/MATERIAL: 150mm/PVC DR18

B+00.0 A+14.3	200mm x 150mm TEE (TO FIRE HYDRANT) TO CITY OF OTTAWA STANDARDS	±74.07	±71.44	±2.63	-
B+01.9	150mm VALVE BOX TO CITY OF OTTAWA STANDARDS	±74.20	±71.44	±2.76	-
B+04.1	-	±74.29	±71.44	±2.85	BOTTOM OF CURB
B+08.0	FIRE HYDRANT TO CITY OF OTTAWA STANDARDS	74.53	±71.44	3.09	-

DIAMETER/MATERIAL: 150mm/PVC DR18

C+00.0 (A+42.7)	200mm x 150mm TEE TO CITY OF OTTAWA STANDARDS	±74.19	±71.44	±2.75	-
C+00.8	45° HORIZONTAL BEND TO CITY OF OTTAWA STANDARDS	±74.16	±71.44	±2.75	-
C+03.5	45° HORIZONTAL BEND TO CITY OF OTTAWA STANDARDS	±74.07	±71.57	±2.50	-
C+04.1	-	±74.08	±71.57	±2.51	BOTTOM OF CURB
C+04.7	150mm VALVE BOX TO CITY OF OTTAWA STANDARDS	74.24	±71.57	±2.67	-
C+05.7	150mm END CAP TO CITY OF OTTAWA STANDARDS	74.27	±71.57	±2.70	WATER SERVICE PIPE CONNECTION (REFER MECHANICAL)

**KEY PLAN**



No.	DATE	REVISION
5	JAN 23-25	REVISED PER CITY COMMENTS 2
4	NOV 7-25	ISSUED FOR ISSUED FOR TENANT REVIEW 1 (50%)
3	OCT 30-25	RE-ISSUED FOR SITE PLAN APPROVAL
2	MAY 9-25	ISSUED FOR SITE PLAN APPROVAL
1	MAR 3-25	ISSUED FOR COORDINATION

**D. B. GRAY ENGINEERING INC.**  
*Stormwater Management - Grading & Drainage - Storm & Sanitary Sewers - Watermain*  
700 Long Point Circle  
Ottawa, Ontario  
613-425-8044  
d.gray@dbgrayengineering.com

Project  
**PROPOSED REDEVELOPMENT OF WESTGATE SC PHASE 1B**  
1309 CARLING AVENUE  
OTTAWA, ONTARIO

Drawing Title  
**DETAILS**

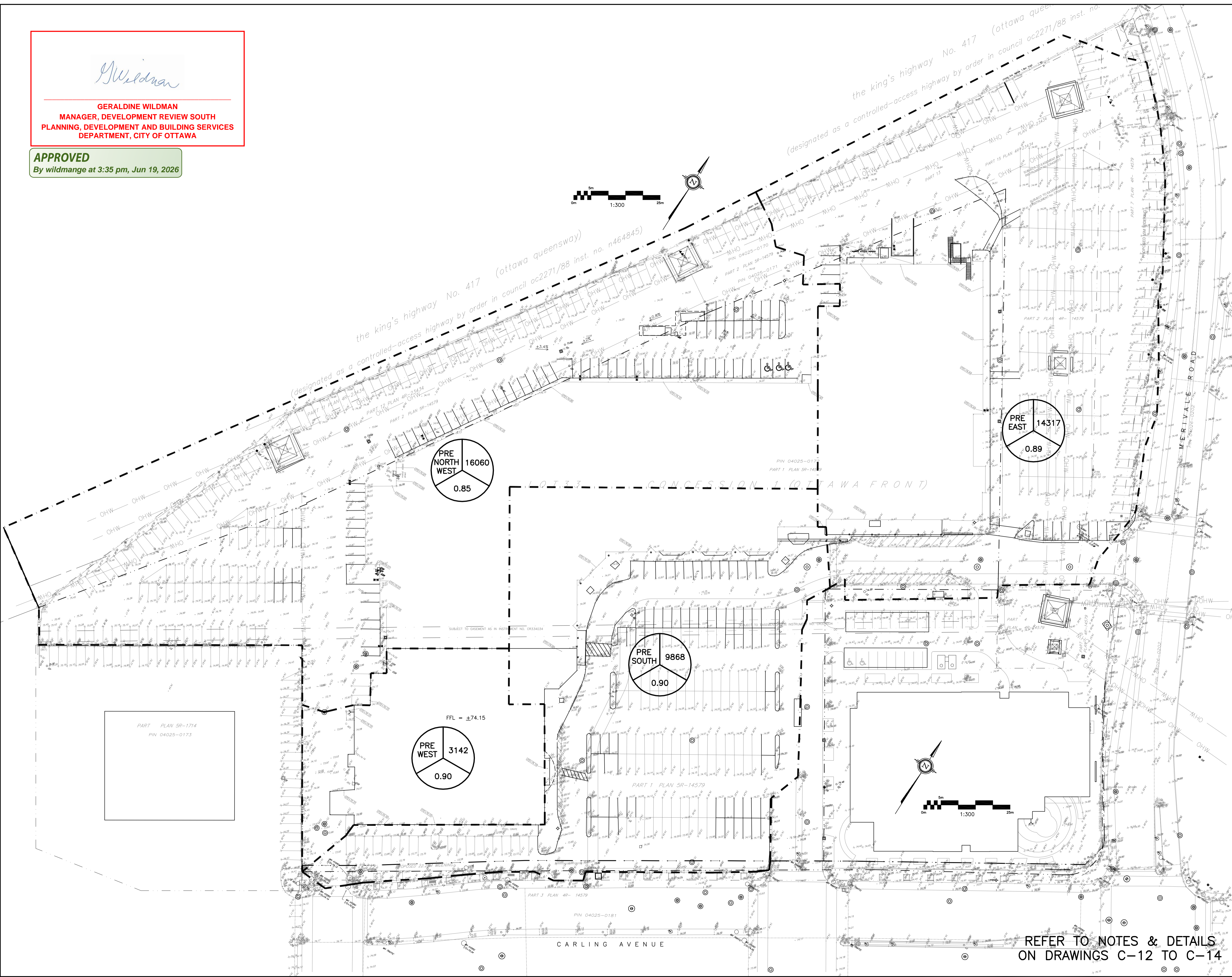
Engineer's Seal  
  
NOT VALID UNLESS SIGNED & DATED

Drawn D.B.G.  
H. Scale 1:200  
V. Scale  
Date FEB 12-25  
Job No. 25013

Drawing No.  
**C-14**  
of 16

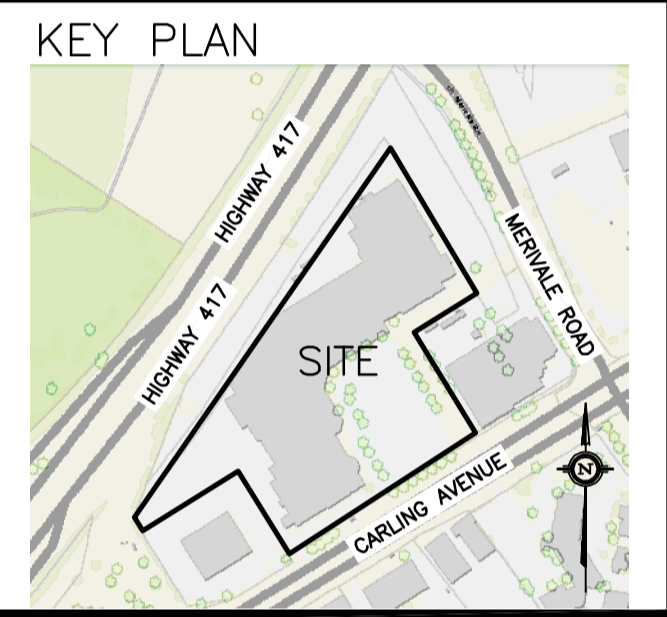
*G. Wildman*  
**GERALDINE WILDMAN**  
 MANAGER, DEVELOPMENT REVIEW SOUTH  
 PLANNING, DEVELOPMENT AND BUILDING SERVICES  
 DEPARTMENT, CITY OF OTTAWA

**APPROVED**  
 By wildmange at 3:35 pm, Jun 19, 2026



**LEGEND**

FFL	FIRST FLOOR ELEVATION
TOF	TOP OF FOUNDATION
BFL	BASEMENT FLOOR ELEVATION
USF	UNDERSIDE OF FOOTING
---	PROPERTY LINE
CB	CATCH BASIN
MH	STORM MANHOLE
CB/MH	CATCH BASIN/MANHOLE
MH	SANITARY MANHOLE
FH	FIRE HYDRANT
FDC	FIRE DEPARTMENT CONNECTION
CS	CURB STOP & STANDPOST
VB	VALVE & VALVE BOX
(M)	WATER METER
(R)	REMOTE WATER METER
SAN	SANITARY SEWER
ST	STORM SEWER
WS/WM	WATER SERVICE/WATERMAIN
OBV	OBVERT OF PIPE
SPL	SPRINGLINE OF PIPE



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Project  
**PROPOSED REDEVELOPMENT OF WESTGATE SC PHASE 1B**  
 1309 CARLING AVENUE  
 OTTAWA, ONTARIO

Drawing Title  
**PRE-DEVELOPMENT DRAINAGE PLAN**

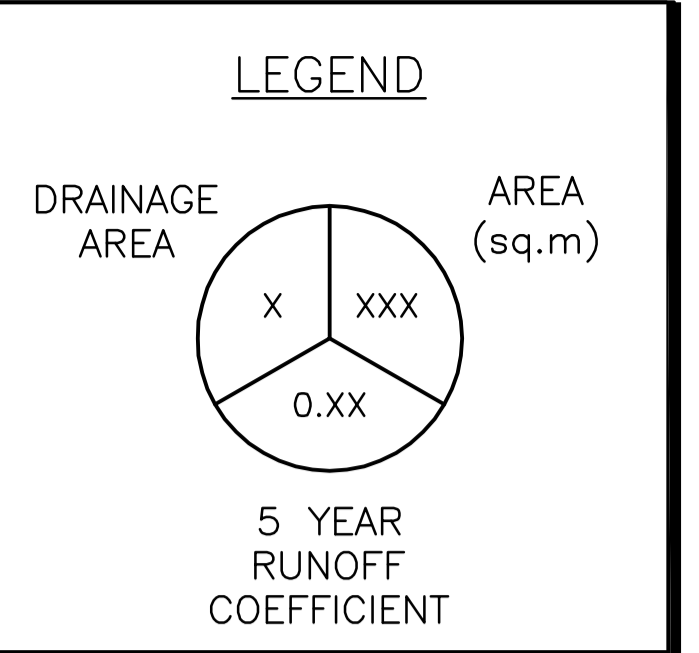
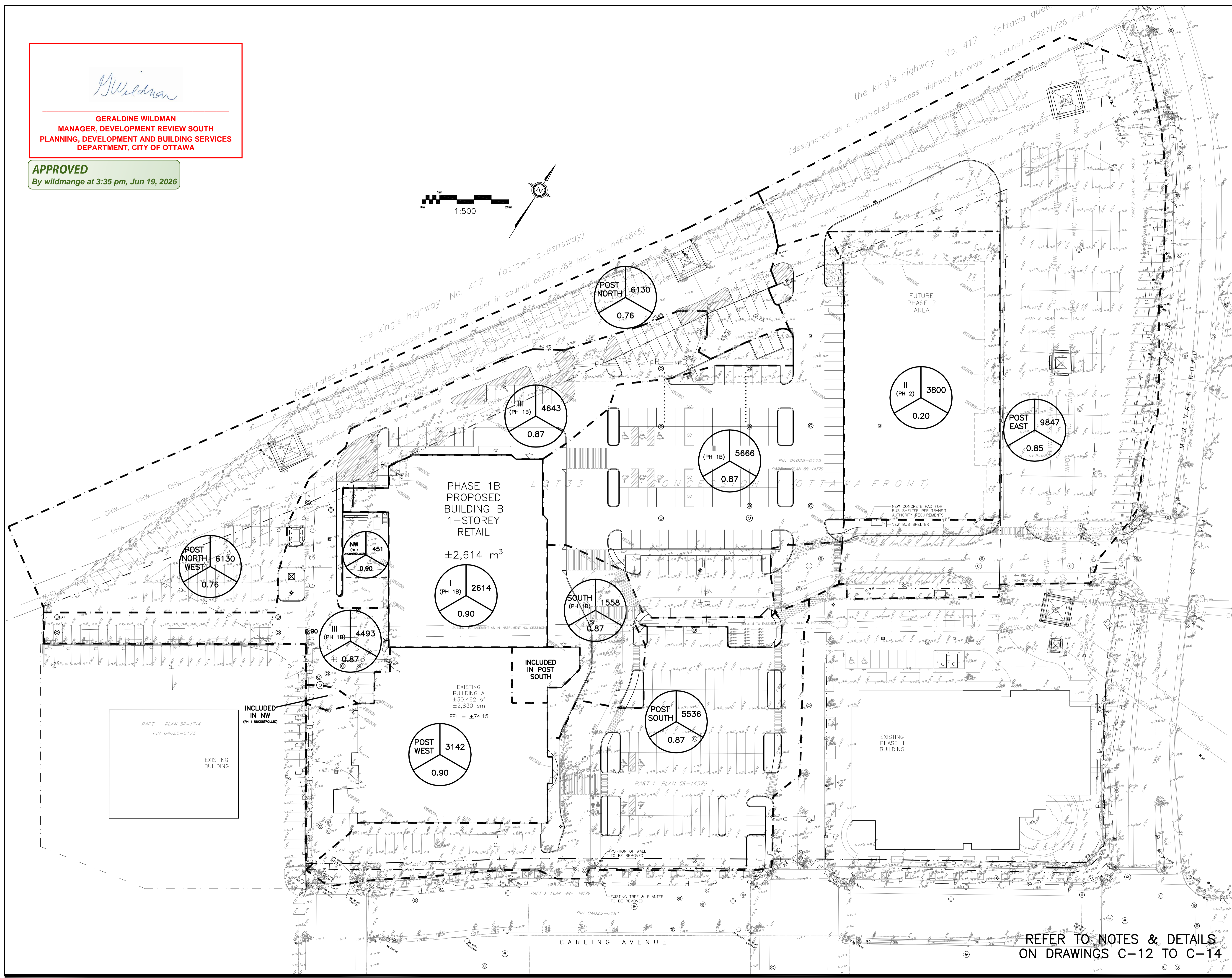
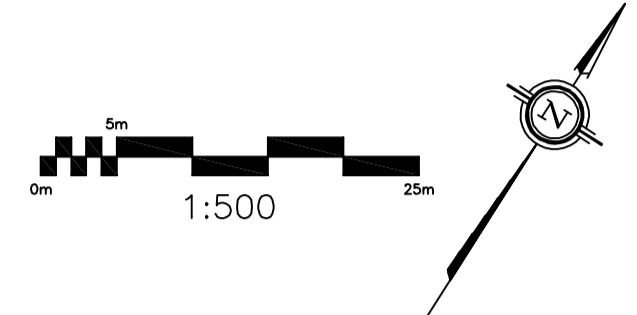
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	Drawing No. <b>C-15</b> of 16

REFER TO NOTES & DETAILS  
 ON DRAWINGS C-12 TO C-14

File No. D07-12-25-0064

*G. Wildman*  
**GERALDINE WILDMAN**  
 MANAGER, DEVELOPMENT REVIEW SOUTH  
 PLANNING, DEVELOPMENT AND BUILDING SERVICES  
 DEPARTMENT, CITY OF OTTAWA

**APPROVED**  
 By wildmange at 3:35 pm, Jun 19, 2026



No.	DATE	REVISION
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**D. B. GRAY ENGINEERING INC.**  
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Project  
**PROPOSED REDEVELOPMENT OF WESTGATE SC PHASE 1B**  
 1309 CARLING AVENUE  
 OTTAWA, ONTARIO

Drawing Title  
**POST DEVELOPMENT DRAINAGE PLAN**

Engineer's Seal  
  
 NOT VALID UNLESS SIGNED & DATED

Drawn: D.B.G.  
 H. Scale: 1:500  
 V. Scale:  
 Date: FEB 12-25  
 Job No.: 25013  
 Drawing No.:  
**C-16**  
 of 16

REFER TO NOTES & DETAILS ON DRAWINGS C-12 TO C-14

File No. D07-12-25-0064