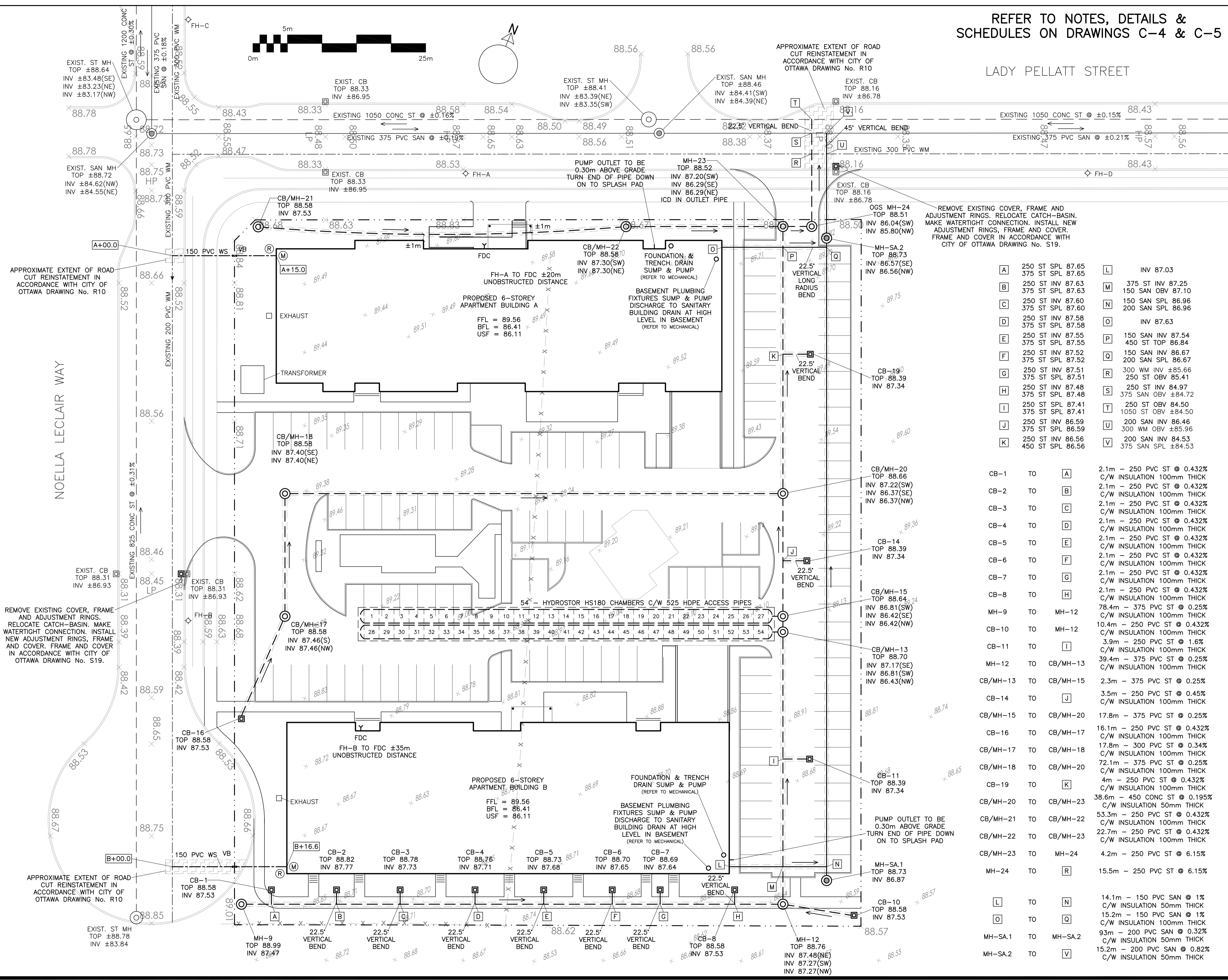


REFER TO NOTES, DETAILS & SCHEDULES ON DRAWINGS C-4 & C-5

LADY PELLATT STREET

LEGEND

- FFL FINISHED FLOOR ELEVATION
- 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
- 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
- INV INVERT OF PIPE
- x EXISTING GRADE ELEVATION
- 150mm BARRIER CURB



A	250 ST SPL 87.65	L	INV 87.03
B	250 ST INV 87.63	M	375 ST INV 87.25
C	250 ST INV 87.60	N	150 SAN SPL 86.96
D	375 ST SPL 87.60	O	200 SAN SPL 86.96
E	250 ST INV 87.55	P	150 SAN INV 87.54
F	375 ST SPL 87.55	Q	450 ST TOP 86.84
G	250 ST INV 87.52	R	150 SAN INV 86.67
H	375 ST SPL 87.52	S	200 SAN SPL 86.67
I	250 ST INV 87.51	T	300 WM INV ±85.66
J	375 ST SPL 87.51	U	250 ST OBV 85.41
K	250 ST INV 87.48	V	250 ST INV 84.97
			375 SAN OBV ±84.72
			250 ST OBV 84.50
			1050 ST OBV ±84.50
			200 SAN INV 86.46
			300 WM OBV ±85.96
			200 SAN INV 84.53
			375 SAN SPL ±84.53

CB-1	TO	A	2.1m - 250 PVC ST @ 0.432% C/W INSULATION 100mm THICK
CB-2	TO	B	2.1m - 250 PVC ST @ 0.432% C/W INSULATION 100mm THICK
CB-3	TO	C	2.1m - 250 PVC ST @ 0.432% C/W INSULATION 100mm THICK
CB-4	TO	D	2.1m - 250 PVC ST @ 0.432% C/W INSULATION 100mm THICK
CB-5	TO	E	2.1m - 250 PVC ST @ 0.432% C/W INSULATION 100mm THICK
CB-6	TO	F	2.1m - 250 PVC ST @ 0.432% C/W INSULATION 100mm THICK
CB-7	TO	G	2.1m - 250 PVC ST @ 0.432% C/W INSULATION 100mm THICK
CB-8	TO	H	2.1m - 250 PVC ST @ 0.432% C/W INSULATION 100mm THICK
MH-9	TO	MH-12	78.4m - 375 PVC ST @ 0.25% C/W INSULATION 100mm THICK
CB-10	TO	MH-12	10.4m - 250 PVC ST @ 0.432% C/W INSULATION 100mm THICK
CB-11	TO	I	3.9m - 250 PVC ST @ 1.6% C/W INSULATION 100mm THICK
MH-12	TO	CB/MH-13	39.4m - 375 PVC ST @ 0.25% C/W INSULATION 100mm THICK
CB/MH-13	TO	CB/MH-15	2.3m - 375 PVC ST @ 0.25%
CB-14	TO	J	3.5m - 250 PVC ST @ 0.45% C/W INSULATION 100mm THICK
CB/MH-15	TO	CB/MH-20	17.8m - 375 PVC ST @ 0.25%
CB-16	TO	CB/MH-17	16.1m - 250 PVC ST @ 0.432% C/W INSULATION 100mm THICK
CB/MH-17	TO	CB/MH-18	17.8m - 300 PVC ST @ 0.34% C/W INSULATION 100mm THICK
CB/MH-18	TO	CB/MH-20	72.1m - 375 PVC ST @ 0.25% C/W INSULATION 100mm THICK
CB-19	TO	K	4m - 250 PVC ST @ 0.432% C/W INSULATION 100mm THICK
CB/MH-20	TO	CB/MH-23	38.6m - 450 CONC ST @ 0.195% C/W INSULATION 50mm THICK
CB/MH-21	TO	CB/MH-22	53.3m - 250 PVC ST @ 0.432% C/W INSULATION 100mm THICK
CB/MH-22	TO	CB/MH-23	22.7m - 250 PVC ST @ 0.432% C/W INSULATION 100mm THICK
CB/MH-23	TO	MH-24	4.2m - 250 PVC ST @ 6.15%
MH-24	TO	R	15.5m - 250 PVC ST @ 6.15%
L	TO	N	14.1m - 150 PVC SAN @ 1% C/W INSULATION 50mm THICK
O	TO	Q	15.2m - 150 PVC SAN @ 1% C/W INSULATION 100mm THICK
MH-SA-1	TO	MH-SA-2	93m - 200 PVC SAN @ 0.32% C/W INSULATION 50mm THICK
MH-SA-2	TO	V	15.2m - 200 PVC SAN @ 0.82% C/W INSULATION 50mm THICK

2	JUN 28-23	ISSUED FOR APPROVAL
1	JUN 26-23	ISSUED FOR COORDINATION
No.	DATE	REVISION

**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 6-STORY APARTMENT BUILDINGS**  
 1001 NOELLA LECLAIR WAY  
 OTTAWA, ONTARIO

Drawing Title  
**SITE SERVICING PLAN**

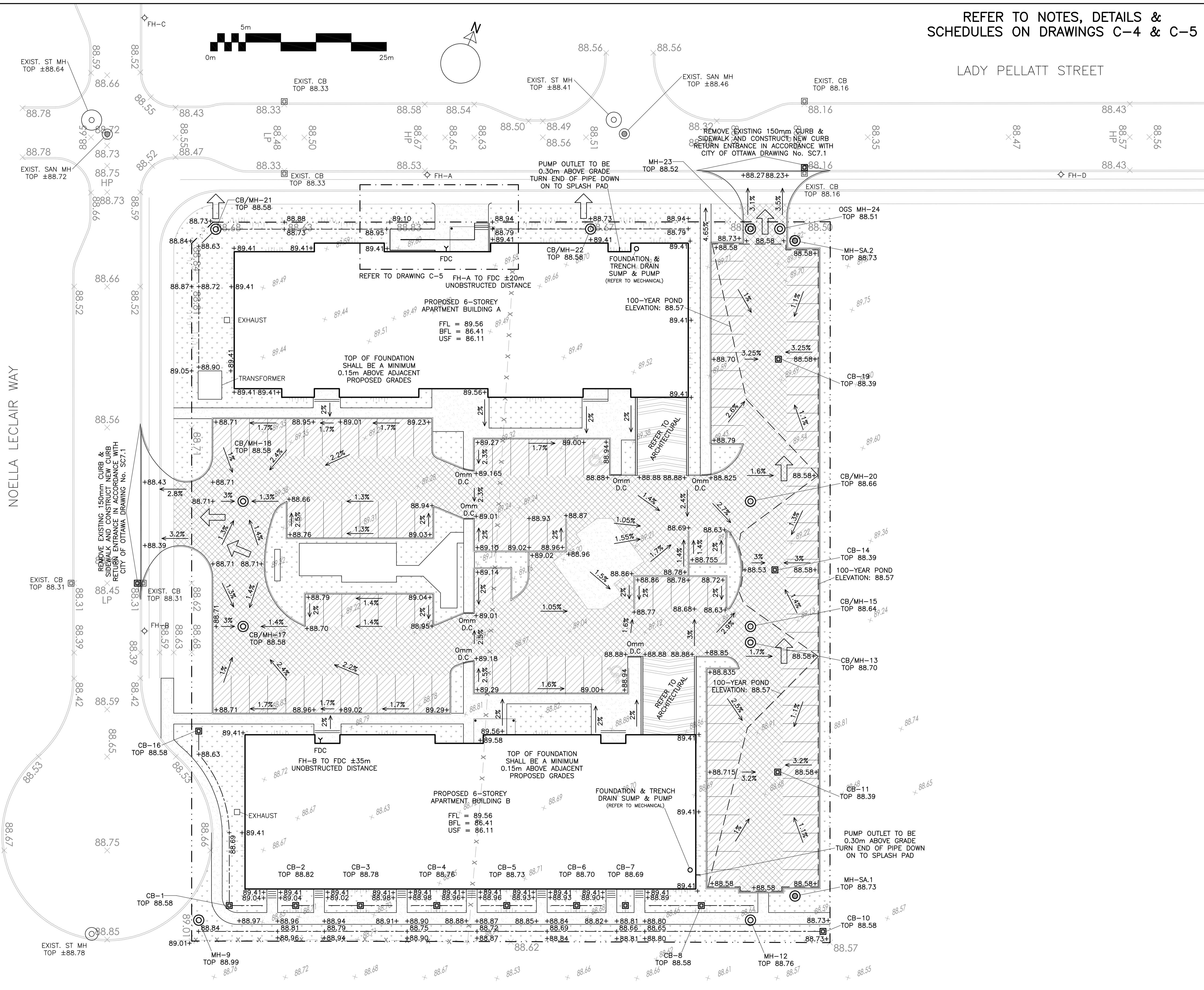
Engineer's Seal  
  
 NOT VALID UNLESS SIGNED & DATED

Drawn D.B.G.  
 H. Scale 1:250  
 V. Scale  
 Date JUN 12-23  
 Job No. 22068

Drawing No.  
**C-1**  
 of 6

REFER TO NOTES, DETAILS & SCHEDULES ON DRAWINGS C-4 & C-5

LADY PELLATT STREET



**LEGEND**

- FFL FINISHED FLOOR ELEVATION
- 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
- CENTERLINE OF SWALE
- 150mm BARRIER CURB
- D.C. DEPRESSED CURB
- /// LIGHT-DUTY PAVEMENT
- /// HEAVY-DUTY PAVEMENT
- CONCRETE
- LANDSCAPE

No.	DATE	REVISION
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1	JUN 26-23	ISSUED FOR COORDINATION

**D. B. GRAY ENGINEERING INC.**  
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**PROPOSED 6-STORY APARTMENT BUILDINGS**  
 1001 NOELLA LECLAIR WAY  
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**GRADING PLAN**

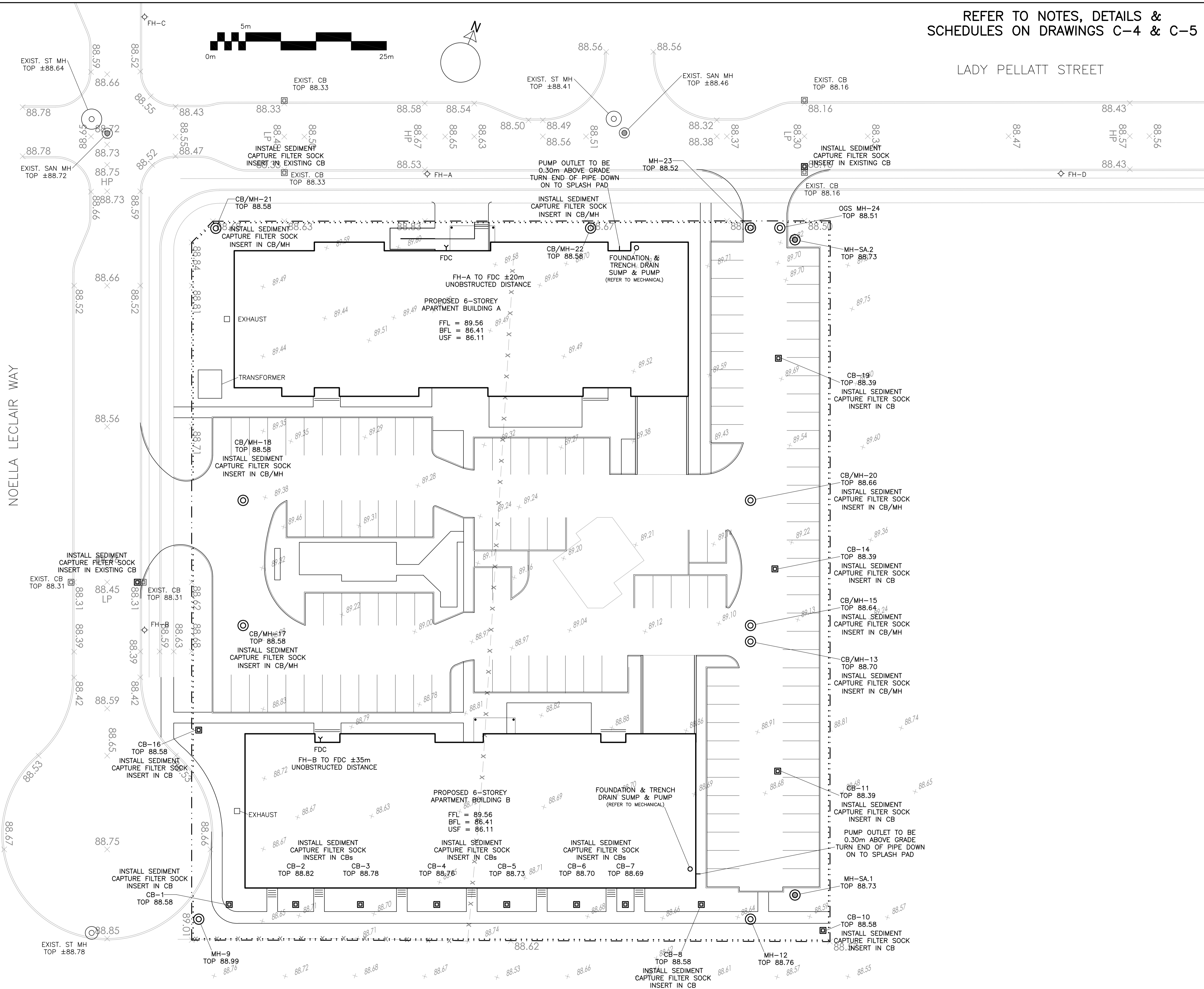
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Engineer's Seal  
 H. Scale 1:250  
 V. Scale  
 Date JUN 12-23  
 Job No. 22068

Drawing No.  
**C-2**  
 of 6

REFER TO NOTES, DETAILS & SCHEDULES ON DRAWINGS C-4 & C-5

LADY PELLATT STREET



**LEGEND**

- FFL FINISHED FLOOR ELEVATION
- 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
- EXISTING GRADE ELEVATION
- 150mm BARRIER CURB
- SILT FENCE BARRIER

No.	DATE	REVISION
2	JUN 28-23	ISSUED FOR APPROVAL
1	JUN 26-23	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 6-STORY APARTMENT BUILDINGS**  
 1001 NOELLA LECLAIR WAY  
 OTTAWA, ONTARIO

**EROSION & SEDIMENT CONTROL PLAN**

	Engineer's Seal
	Drawn D.B.G.
	H. Scale 1:250
	V. Scale
Date JUN 12-23	
Job No. 22068	
Drawing No. <b>C-3</b> of 6	
NOT VALID UNLESS SIGNED & DATED	

1.0 GENERAL

- 1.1 USE BAR SCALE TO CONFIRM ACTUAL PLOT SCALE.
1.2 EXISTING AND NEW ELEVATIONS ARE GEODETIC IN METERS. PIPE DIMENSIONS ARE NOMINAL IN MILLIMETERS UNLESS OTHERWISE NOTED.
1.3 "ENGINEER" REFERS TO D.B. GRAY ENGINEERING INC. UNLESS OTHERWISE NOTED.
1.4 SITE BOUNDARIES, EXISTING GRADE ELEVATIONS AND OTHER EXISTING FEATURES ARE DERIVED FROM GRADING PLAN PREPARED BY STANTEC CONSULTING LTD. PROJECT No. 160401419.
1.5 REFER TO ARCHITECTURAL SITE PLANS AND LANDSCAPE PLANS FOR EXACT LOCATIONS OF PROPOSED BUILDINGS, DRIVEWAYS, PARKING AREAS, CURBS, SIDEWALKS, WALKWAYS, ETC. LAYOUT SHALL BE COMPLETED BY THE CONTRACTOR AND REVIEWED BY THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING CONSTRUCTION.
1.6 DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SITE SERVICING & STORMWATER MANAGEMENT REPORT No. 22068 PREPARED BY D.B. GRAY ENGINEERING INC.
1.7 REFERENCE THE LATEST REVISION OF THE GEOTECHNICAL INVESTIGATION PREPARED BY PATERSON GROUP INC. REPORT: PG6282-1. CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
1.8 CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND CURRENT CITY OF OTTAWA STANDARD SPECIFICATIONS AND DRAWINGS. ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND DRAWINGS SHALL APPLY WHERE NO CITY OF OTTAWA STANDARD SPECIFICATIONS OR DRAWINGS ARE AVAILABLE.
1.9 PRIOR TO COMMENCING CONSTRUCTION:
A. OBTAIN AND BEAR THE COST OF ALL NECESSARY PERMITS AND APPROVALS FROM AUTHORITIES HAVING JURISDICTION.
B. LOCATIONS, DEPTHS AND SIZES OF EXISTING INFRASTRUCTURE INDICATED ON DRAWINGS ARE FOR GUIDANCE ONLY. COMPLETENESS AND ACCURACY ARE NOT GUARANTEED. ALL EXISTING INFRASTRUCTURE IS NOT NECESSARILY INDICATED ON DRAWINGS. THOSE SHOWN ARE DERIVED FROM AVAILABLE INFORMATION AND MUST BE CONFIRMED ON SITE.
C. NOTIFY AUTHORITIES HAVING JURISDICTION.
D. UNDERGROUND LOCATES INCLUDING BUT NOT LIMITED TO ONTARIO ONE CALL 1-800-400-2255 SHALL BE PERFORMED. CONFIRM LOCATIONS, DEPTHS AND SIZES OF EXISTING INFRASTRUCTURE BY CAREFUL TEST EXCAVATIONS AND REPORT ANY DIFFERENCES TO THE ENGINEER. FAILURE TO DO SO WILL BE AT THE CONTRACTOR'S EXPENSE.
E. COORDINATE AND SCHEDULE CONSTRUCTION TO PROVIDE MINIMUM DISRUPTION TO SERVICES.
1.10 PROVIDE TRAFFIC CONTROL AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.
1.11 EXCAVATION AND BACKFILL:
A. PROTECT EXISTING BUILDINGS, INFRASTRUCTURE, ETC. FROM DAMAGE.
B. SAWCUT PAVEMENT, CURBS AND SIDEWALKS NEATLY ALONG LIMITS OF PROPOSED EXCAVATIONS.
C. EXCAVATIONS SHALL NOT INTERFERE WITH BEARING CAPACITIES OF ADJACENT FOUNDATIONS.
D. SUBGRADE, BEDDING, SURROUND MATERIAL AND BACKFILL SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
E. COORDINATE AND PAY FOR GEOTECHNICAL INSPECTIONS AND COMPACTION TESTS OF SUBGRADE AND EACH LIFT OF BEDDING, SURROUND MATERIAL AND BACKFILL. SUBMIT GEOTECHNICAL INSPECTIONS AND COMPACTION REPORTS TO THE ENGINEER.
1.12 MAINTAIN AS-BUILT DRAWINGS AND RECORD DEVIATIONS INCLUDING BUT NOT LIMITED TO CHANGES OF LOCATIONS, ELEVATIONS AND SIZES FROM ORIGINAL CONTRACT DOCUMENTS. UPDATE DAILY AND MAKE AVAILABLE THROUGHOUT CONSTRUCTION. SUBMIT AS-BUILT DRAWINGS TO THE ENGINEER WHEN CONSTRUCTION IS COMPLETE.
1.13 REINSTATE AREAS DISTURBED BY CONSTRUCTION TO PRE-CONSTRUCTION CONDITIONS.

2.0 SITE SERVICING PLAN

- 2.1 WATER SERVICES, APPURTENANCES AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CURRENT CITY OF OTTAWA STANDARD SPECIFICATIONS AND DRAWINGS. ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND DRAWINGS SHALL APPLY WHERE NO CITY OF OTTAWA STANDARD SPECIFICATIONS OR DRAWINGS ARE AVAILABLE.
2.2 WATER SERVICE MATERIAL SHALL BE PVC PRESSURE CLASS 235 DR18 IN ACCORDANCE WITH CURRENT CITY OF OTTAWA STANDARD SPECIFICATIONS.
2.3 CONNECTIONS TO MUNICIPAL WATERMAIN SHALL BE PERFORMED BY CITY OF OTTAWA FORCES. CONTRACTOR SHALL PERFORM EXCAVATION, BACKFILL AND REINSTATEMENT.
2.4 PROVIDE A MINIMUM 2.4m COVER OVER WATER SERVICES. WHERE THE MINIMUM COVER IS NOT POSSIBLE NOTIFY THE ENGINEER AND INSULATE IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. W22.
2.5 WATER METERS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. W32.
2.6 SEWERS, SEWER SERVICES, APPURTENANCES AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CURRENT CITY OF OTTAWA STANDARD SPECIFICATIONS AND DRAWINGS. ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND DRAWINGS SHALL APPLY WHERE NO CITY OF OTTAWA STANDARD SPECIFICATIONS OR DRAWINGS ARE AVAILABLE.
2.7 SEWER MATERIALS SHALL BE REINFORCED CONCRETE FOR DIAMETERS GREATER THAN OR EQUAL TO 450mm AND PVC DR35 FOR DIAMETERS LESS THAN 450mm. SEWER AND SEWER SERVICE MATERIALS SHALL BE PVC DR35 FOR DIAMETERS GREATER THAN 150mm AND DR28 FOR DIAMETERS LESS THAN OR EQUAL TO 150mm.
2.8 CONNECT PROPOSED SANITARY SEWER TO EXISTING MUNICIPAL SANITARY SEWER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S11.1.
2.9 CONNECT PROPOSED STORM SEWER TO EXISTING MUNICIPAL STORM SEWER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S11.2.
2.10 PROVIDE A MINIMUM 2m COVER OVER SEWERS AND SEWER SERVICES. WHERE THE MINIMUM COVER IS NOT POSSIBLE NOTIFY THE ENGINEER AND INSULATE AS PER DETAIL.
2.11 SANITARY SEWER SHALL CROSS ABOVE WATERMAIN WITH A MINIMUM 500mm BARREL TO BARREL VERTICAL SEPARATION IN ACCORDANCE WITH MOE PROCEDURE F-6-1. SEWER PIPE SEGMENT SHALL BE CENTERED AT THE POINT OF CROSSING SO JOINTS ARE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATERMAIN.
2.12 STORM SEWER SHALL CROSS BELOW WATERMAIN WITH A MINIMUM 250mm BARREL TO BARREL VERTICAL SEPARATION IN ACCORDANCE WITH MOE PROCEDURE F-6-1. SEWER PIPE SEGMENT SHALL BE CENTERED AT THE POINT OF CROSSING SO JOINTS ARE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATERMAIN.
2.13 SANITARY BUILDING DRAINS SHALL BE INSTALLED WITH NORMALLY OPEN BACKWATER VALVES IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S14.1 OR S14.2.
2.14 CATCH-BASINS AND MANHOLES:
A. PRECAST CONCRETE CATCH-BASINS SHALL BE IN ACCORDANCE WITH OPSD 705.010.
B. PRECAST CONCRETE MANHOLES SHALL BE IN ACCORDANCE WITH OPSD 701.010.
C. MANHOLE STEPS SHALL BE HOLLOW CIRCULAR ALUMINUM IN ACCORDANCE WITH OPSD 405.010.
D. PRECAST CONCRETE ADJUSTMENT UNITS SHALL BE IN ACCORDANCE WITH OPSD 704.010.
E. ALUMINUM SURFACES IN CONTACT WITH CONCRETE SHALL HAVE POLYETHYLENE ANCHOR INSULATING SLEEVES.
F. FRAMES AND COVERS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA DRAWINGS OR ONTARIO PROVINCIAL STANDARD DRAWINGS. REFER TO CATCH-BASIN & MANHOLE SCHEDULE.
G. PRIOR TO INSTALLATION SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL.
2.15 PIPES AND FITTINGS:
A. HANDLE, CUT AND ASSEMBLE PIPES AND FITTINGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION GUIDE.
B. WHETHER A RESULT OF POOR WORKMANSHIP OR DAMAGE DEFECTIVE PIPES AND FITTINGS SHALL BE REPAIRED OR REPLACED.
2.16 COORDINATE AND PERFORM LEAKAGE TESTS ON SANITARY MANHOLES, SEWERS AND SEWER SERVICES IN ACCORDANCE WITH OPSD 407 AND OPSD 410 WITH THE PRESENCE OF THE ENGINEER.
2.17 COORDINATE AND PERFORM DYE TESTS ON SANITARY SEWERS AND SEWER SERVICES WITH THE PRESENCE OF THE ENGINEER.
2.18 PERFORM TWO CCTV INSPECTIONS ON SEWERS AND SEWER SERVICES. FIRST INSPECTION SHALL BE WHEN CONSTRUCTION IS COMPLETE. SECOND INSPECTION SHALL BE IMMEDIATELY PRIOR TO THE END OF THE WARRANTY PERIOD. SUBMIT REPORTS AND VIDEOS TO THE ENGINEER FOR APPROVAL. DEFECTIVE SEWERS AND SEWER SERVICES SHALL BE REPAIRED OR REPLACED.
2.19 PRIOR TO INSTALLATION OF HYDROSTOR CHAMBERS SUBMIT SHOP DRAWING TO THE ENGINEER FOR APPROVAL.
2.20 INLET CONTROL DEVICE LOCATED IN THE OUTLET PIPE OF MH-23 SHALL BE A PLUG STYLE WITH A ROUND ORIFICE LOCATED AT THE BOTTOM OF THE PLUG MANUFACTURED BY PEDRO PLASTICS OR APPROVED EQUIVALENT SIZED BY THE MANUFACTURER FOR A RELEASE RATE OF 37.78L/s AT 2.23m. PRIOR TO INSTALLATION SUBMIT SHOP DRAWING TO THE ENGINEER FOR APPROVAL.

3.0 GRADING PLAN

- 3.1 NEW GRADES SHALL MATCH EXISTING GRADES ON PROPERTY LINES. NO EXCESS DRAINAGE SHALL BE DIRECTED TOWARDS ADJACENT PROPERTIES DURING OR AFTER CONSTRUCTION. THERE SHALL BE NO ALTERATION TO EXISTING GRADES OR DRAINAGE PATTERNS ON PROPERTY LINES.
3.2 ENSURE ADEQUATE DRAINAGE AWAY FROM BUILDINGS TO RIGHT-OF-WAY, CATCH-BASINS AND SWALES. GRADING SHALL BE GRADUAL BETWEEN PROPOSED GRADE ELEVATIONS INDICATED ON DRAWINGS.
3.3 WHETHER A RESULT OF POOR WORKMANSHIP OR DAMAGE DEFECTIVE GRADING SHALL BE CORRECTED.
3.4 CURBS AND SIDEWALKS:
A. CONCRETE CURBS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. SC1.1.
B. CONCRETE CURB & SIDEWALKS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. SC1.4. DEPRESSED CONCRETE PEDESTRIAN CURBS SHALL BE 0mm.
C. WHETHER A RESULT OF POOR WORKMANSHIP OR DAMAGE DEFECTIVE CURBS AND SIDEWALKS SHALL BE REPAIRED OR REPLACED.
3.5 PAVEMENT STRUCTURE:
A. LIGHT DUTY PAVEMENT STRUCTURE
50mm HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE WEAR COURSE
150mm OPSS GRANULAR A BASE
300mm OPSS GRANULAR B TYPE II SUBBASE
B. HEAVY DUTY PAVEMENT STRUCTURE
40mm HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE WEAR COURSE
50mm HL-8 OR SUPERPAVE 19.0 ASPHALTIC CONCRETE BINDER COURSE
150mm OPSS GRANULAR A BASE
450mm OPSS GRANULAR B TYPE II SUBBASE
C. SUBDRAINS SHALL BE INSTALLED 300mm BELOW SUBGRADE IN ACCORDANCE WITH THE GEOTECHNICAL INVESTIGATION TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
D. COORDINATE AND PAY FOR GEOTECHNICAL INSPECTIONS AND COMPACTION TESTS OF EACH LIFT OF SUBBASE, BASE, BINDER AND WEAR COURSES. SUBMIT GEOTECHNICAL INSPECTIONS AND COMPACTION REPORTS TO THE ENGINEER.
E. WHETHER A RESULT OF POOR WORKMANSHIP OR DAMAGE DEFECTIVE PAVEMENT STRUCTURE SHALL BE REPAIRED OR REPLACED.
3.6 RETAINING WALLS:
A. RETAINING WALLS GREATER THAN 600mm IN HEIGHT REQUIRE A GUARD. REFER TO ARCHITECTURAL SITE PLANS AND/OR LANDSCAPE PLANS FOR EXACT LOCATIONS AND DETAILS.
B. RETAINING WALLS GREATER THAN 1000mm IN HEIGHT SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
C. WHETHER A RESULT OF POOR WORKMANSHIP OR DAMAGE DEFECTIVE RETAINING WALLS SHALL BE REPAIRED OR REPLACED.

4.0 EROSION & SEDIMENT CONTROL PLAN

- 4.1 THE EROSION & SEDIMENT CONTROL PLAN IS A "LIVING DOCUMENT" AND SHALL BE REVISED IN THE EVENT THE SPECIFIED CONTROL MEASURES ARE NOT SUFFICIENT. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE PROTECTION OF THE AREA DRAINAGE SYSTEM DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO LIMITING THE AMOUNT OF EXPOSED SOIL, USING SEDIMENT CAPTURE FILTER SOCK INSERTS IN CATCH-BASINS AND CATCH-BASIN/MANHOLES AND INSTALLING SILT FENCES AND OTHER EFFECTIVE SEDIMENT TRAPS. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY. AT MINIMUM THE CONTRACTOR SHALL INSTALL, MAINTAIN AND REMOVE THE FOLLOWING CONTROL MEASURES IN ACCORDANCE WITH NOTES 4.2 TO 4.10. PRIOR TO COMMENCING CONSTRUCTION INSTALL TERRAFIX GEOSYNTHETICS INC. SILTSACK OR APPROVED EQUIVALENT SEDIMENT CAPTURE FILTER SOCK INSERTS IN ALL EXISTING CATCH-BASINS AND CATCH-BASIN/MANHOLES ADJACENT TO AND WITHIN THE SITE.
4.2 INSTALL TERRAFIX GEOSYNTHETICS INC. SILTSACK OR APPROVED EQUIVALENT SEDIMENT CAPTURE FILTER SOCK INSERTS IN ALL NEW CATCH-BASINS AND CATCH-BASIN/MANHOLES AS THEY ARE INSTALLED.
4.3 INSPECT SEDIMENT CAPTURE FILTER SOCK INSERTS AT THE END OF EACH DAY AND AFTER EACH RAINFALL. REMOVE SEDIMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. REPAIR OR REPLACE DAMAGED SEDIMENT CAPTURE FILTER SOCK INSERTS.
4.4 PRIOR TO COMMENCING CONSTRUCTION INSTALL SILT FENCE BARRIERS AS INDICATED ON DRAWINGS.
4.5 INSTALL SILT FENCE BARRIERS AROUND STOCKPILED SEDIMENT OR SOIL.
4.6 INSPECT SILT FENCE BARRIERS AT THE END OF EACH DAY AND AFTER EACH RAINFALL. REMOVE SEDIMENT IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. REPAIR OR REPLACE DAMAGED SILT FENCE BARRIERS.
4.7 REMOVE ANY MATERIAL DEPOSITED ON THE PUBLIC ROAD BY SHOVELING AND SWEEPING OR VACUUMING AND DISPOSING IN A CONTROLLED AREA. DO NOT SHOVEL, SWEEP OR DISPOSE ANY MATERIAL INTO ANY STORMWATER CONVEYANCE SYSTEM.
4.8 REMOVE EROSION AND SEDIMENT CONTROL MEASURES WHEN CONSTRUCTION IS COMPLETE.
4.9 CONSTRUCTION IS CONSIDERED TO BE COMPLETE WHEN THE FOLLOWING CONDITIONS HAVE BEEN MET:
A. ALL STRUCTURES AND HARD SURFACES HAVE BEEN CONSTRUCTED.
B. ALL STOCKPILED MATERIALS HAVE BEEN REMOVED.
C. ALL PROPOSED GRASSED AREAS ARE EITHER SODDED OR HAVE FULL COVERAGE OF WELL ESTABLISHED TURF AND HAVE HAD A MINIMUM OF ONE FULL GROWING SEASON (MAY 15 TO SEPTEMBER 15).
D. THERE ARE NO AREAS OF EXPOSED EARTH.

Table with 3 columns: No., DATE, REVISION. Contains two entries for revision history.

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

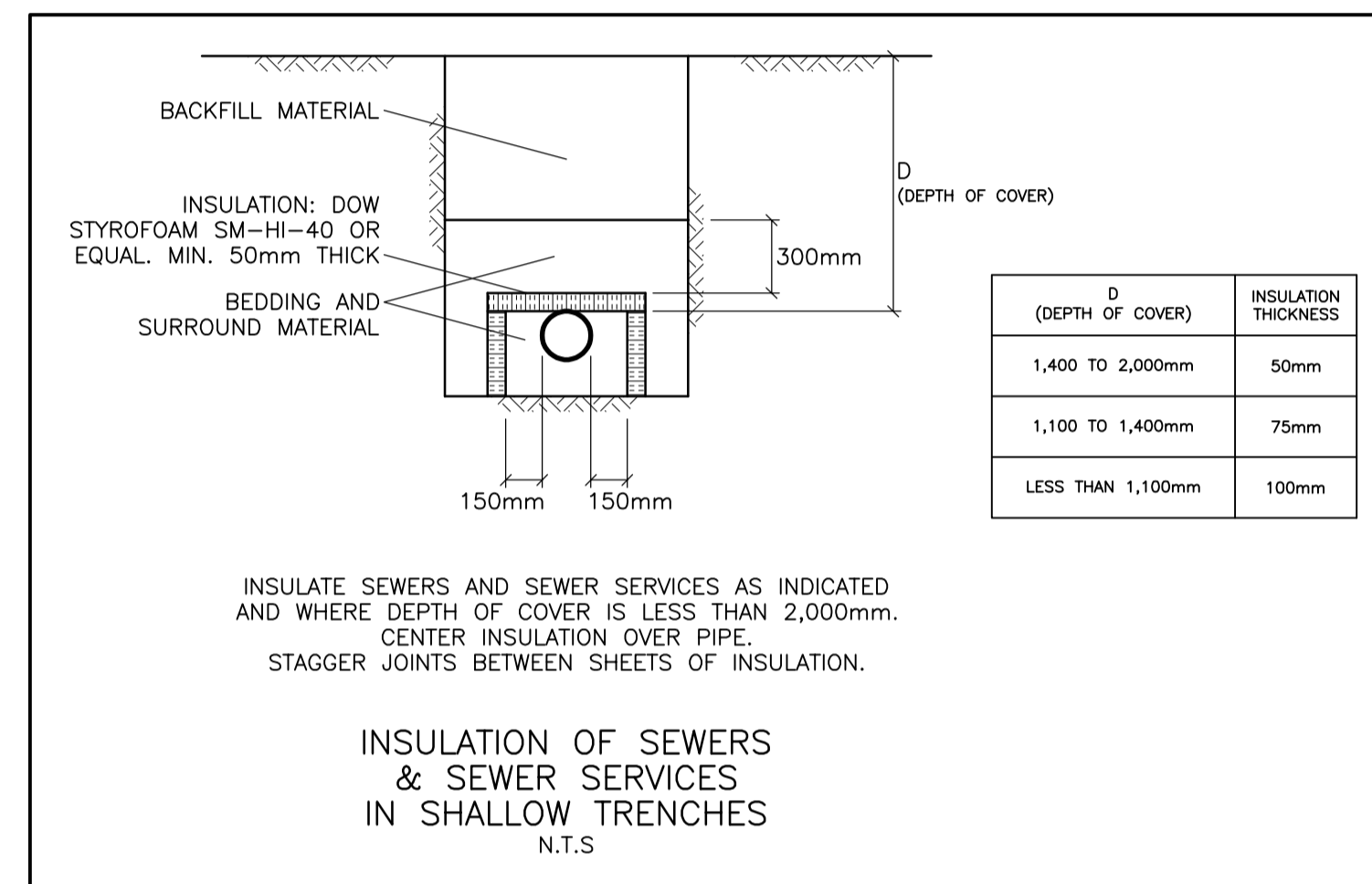
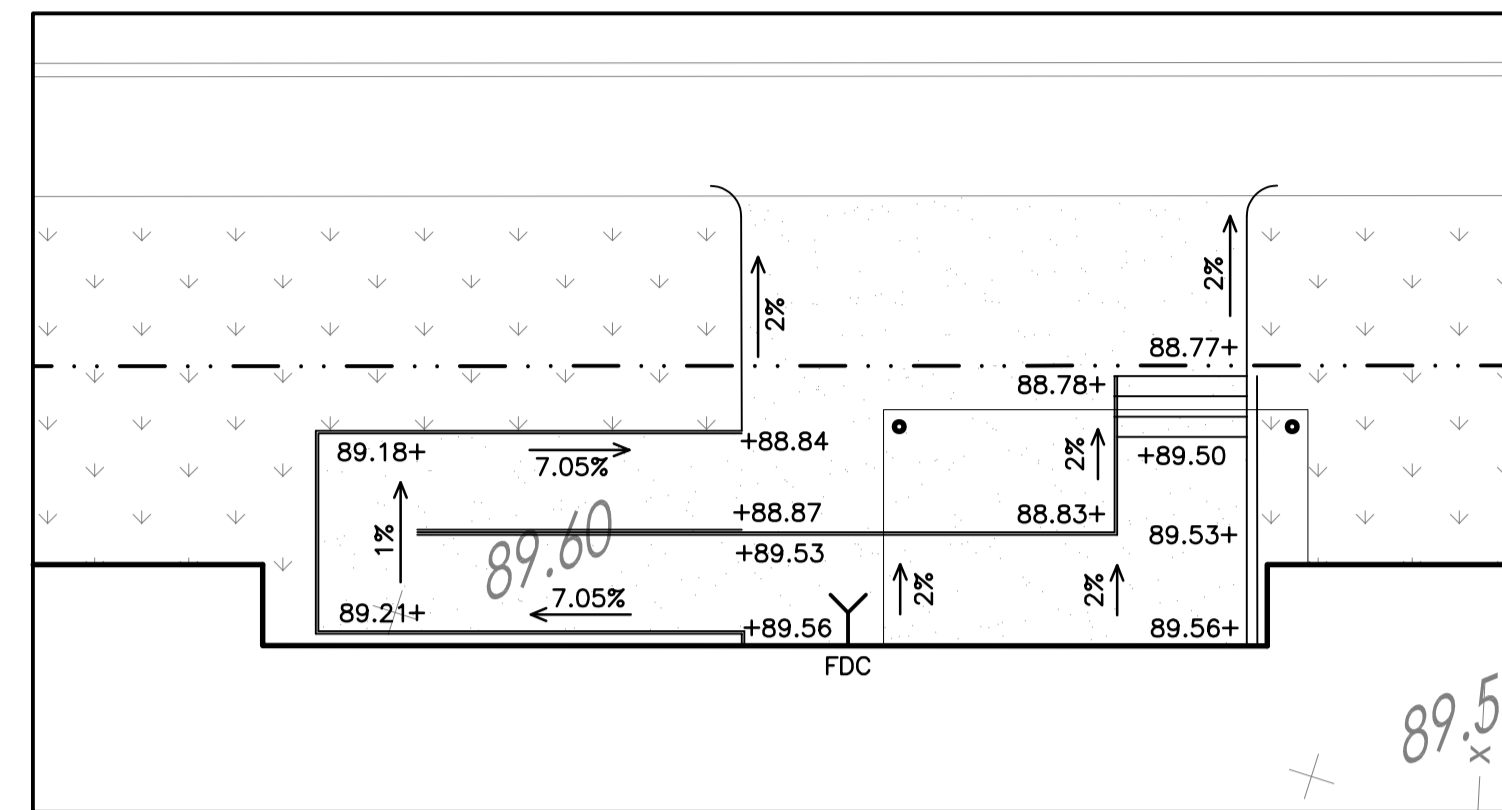
Project
PROPOSED 6-STORY APARTMENT BUILDINGS
1001 NOELLA LECLAIR WAY
OTTAWA, ONTARIO

NOTES

Engineer's Seal: D.B. GRAY, 17016502, JUN 28-23, PROVINCE OF ONTARIO. NOT VALID UNLESS SIGNED & DATED.
Drawing No. C-4 of 6.
Drawn: D.B.G.
H. Scale
V. Scale
Date: JUN 12-23
Job No.: 22068

# CATCH-BASIN & MANHOLE SCHEDULE

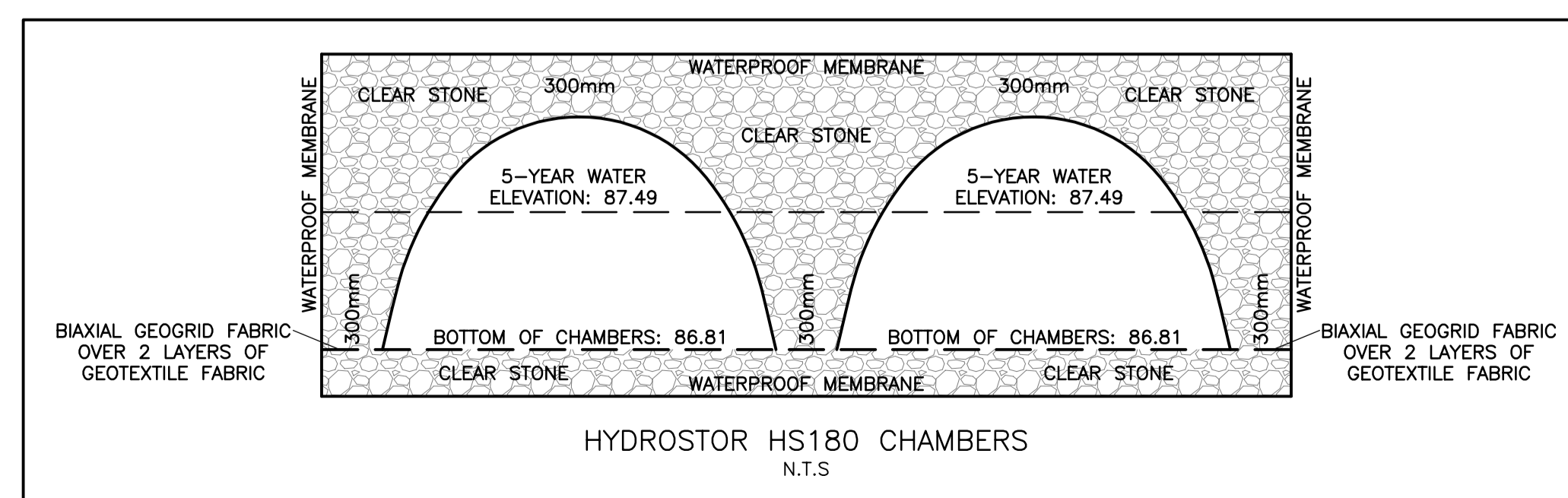
REF	TOP	SIZE	TYPE	INVERT AT INLET	INVERT AT OUTLET	NOTES
<b>STORM SEWER</b>						
CB-1	88.58	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	87.53	IN ACCORDANCE WITH OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S19
CB-2	88.82	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	87.77	IN ACCORDANCE WITH OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S19
CB-3	88.78	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	87.73	IN ACCORDANCE WITH OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S19
CB-4	88.76	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	87.71	IN ACCORDANCE WITH OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S19
CB-5	88.73	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	87.68	IN ACCORDANCE WITH OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S19
CB-6	88.70	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	87.65	IN ACCORDANCE WITH OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S19
CB-7	88.69	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	87.64	IN ACCORDANCE WITH OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S19
CB-8	88.58	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	87.53	IN ACCORDANCE WITH OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S19
MH-9	88.99	1200mm	PRECAST CONCRETE MANHOLE	-	87.47	IN ACCORDANCE WITH OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S25 & S24.1
CB-10	88.58	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	87.53	IN ACCORDANCE WITH OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S19
CB-11	88.39	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	87.34	IN ACCORDANCE WITH OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S19
MH-12	88.76	1200mm	PRECAST CONCRETE MANHOLE	87.48(NE) 87.27(SW)	87.27(NW)	IN ACCORDANCE WITH OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S25 & S24.1
CB/MH-13	88.70	1200mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	87.17(SE) 86.81(SW)	86.43(NW)	IN ACCORDANCE WITH OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S25 & S28.1
CB-14	88.39	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	87.34	IN ACCORDANCE WITH OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S19
CB/MH-15	88.64	1200mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	86.81(SW) 86.42(SE)	86.42(NW)	IN ACCORDANCE WITH OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S25 & S28.1
CB-16	88.58	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	87.53	IN ACCORDANCE WITH OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S19
CB/MH-17	88.58	1200mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	87.46(S)	87.46(NW)	IN ACCORDANCE WITH OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S25 & S28.1
CB/MH-18	88.58	1200mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	87.40(SE)	87.40(NE)	IN ACCORDANCE WITH OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S25 & S28.1
CB-19	88.39	600mm x 600mm	PRECAST CONCRETE CATCH-BASIN	-	87.34	IN ACCORDANCE WITH OPSD 705.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S19
CB/MH-20	88.66	1200mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	87.22(SW) 86.37(SE)	86.37(NW)	IN ACCORDANCE WITH OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S25 & S28.1
CB/MH-21	88.58	1200mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	-	87.53	IN ACCORDANCE WITH OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S25 & S28.1
CB/MH-22	88.58	1200mm	PRECAST CONCRETE CATCH-BASIN/MANHOLE	87.30(SW)	87.30(NE)	IN ACCORDANCE WITH OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S25 & S28.1
MH-23	88.52	1200mm	PRECAST CONCRETE MANHOLE	87.20(SW) 86.29(SE)	86.29(NE)	IN ACCORDANCE WITH OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S25 & S24.1  ICD IN OUTLET PIPE
MH-24	88.51	CDS PMSU2015-4	PRECAST CONCRETE MANHOLE	86.04(SW)	85.80(NW)	-
<b>SANITARY SEWER</b>						
MH-SA.1	88.73	1200mm	PRECAST CONCRETE MANHOLE	-	86.87	IN ACCORDANCE WITH OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S25 & S24
MH-SA.2	88.73	1200mm	PRECAST CONCRETE MANHOLE	86.57(SE)	86.56(NW)	IN ACCORDANCE WITH OPSD 701.010 & CITY OF OTTAWA STANDARDS - FRAME & COVER IN ACCORDANCE WITH CITY OF OTTAWA DRAWING No. S25 & S24



## WATER SERVICE PROFILE TABLE

150mm PVC PRESSURE CLASS 235 DR18

STATION	DESCRIPTION	GRADE ELEVATION	TOP OF PIPE	DEPTH OF COVER	NOTES
A+00.0	300mm x 150mm TEE IN 300mm MUNICIPAL WATERMAIN	±88.71	±86.21	±2.50	CONNECTION BY CITY. EXCAVATION, BACKFILL & REINSTATEMENT BY CONTRACTOR.
A+09.0	150mm VALVE BOX	88.85	86.21	2.64	ON PROPERTY LINE
A+15.0	-	89.41	86.21	3.20	ENTRY TO BUILDING
B+00.0	200mm x 150mm TEE IN 200mm MUNICIPAL WATERMAIN	±88.83	±86.29	±2.54	CONNECTION BY CITY. EXCAVATION, BACKFILL & REINSTATEMENT BY CONTRACTOR.
B+09.0	150mm VALVE BOX	88.69	86.29	2.40	ON PROPERTY LINE
B+16.6	-	89.41	86.29	3.12	ENTRY TO BUILDING



No.	DATE	REVISION
2	JUN 28-23	ISSUED FOR APPROVAL
1	JUN 26-23	ISSUED FOR COORDINATION

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

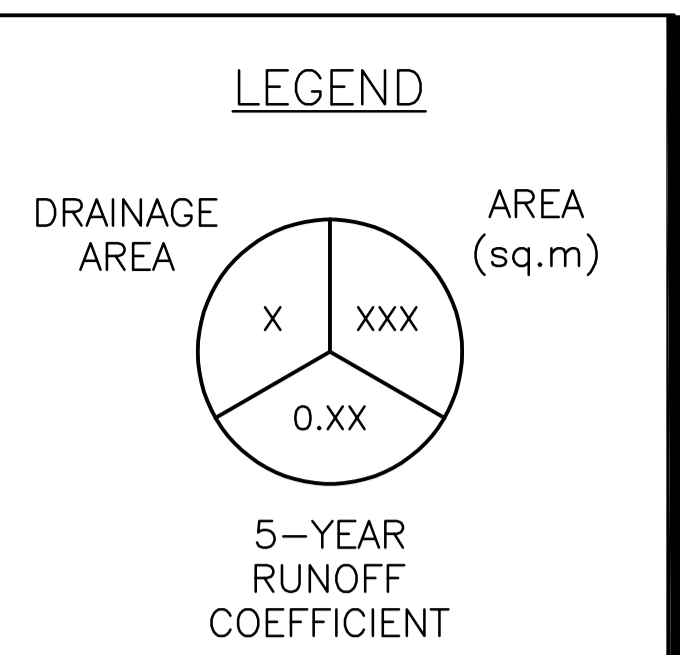
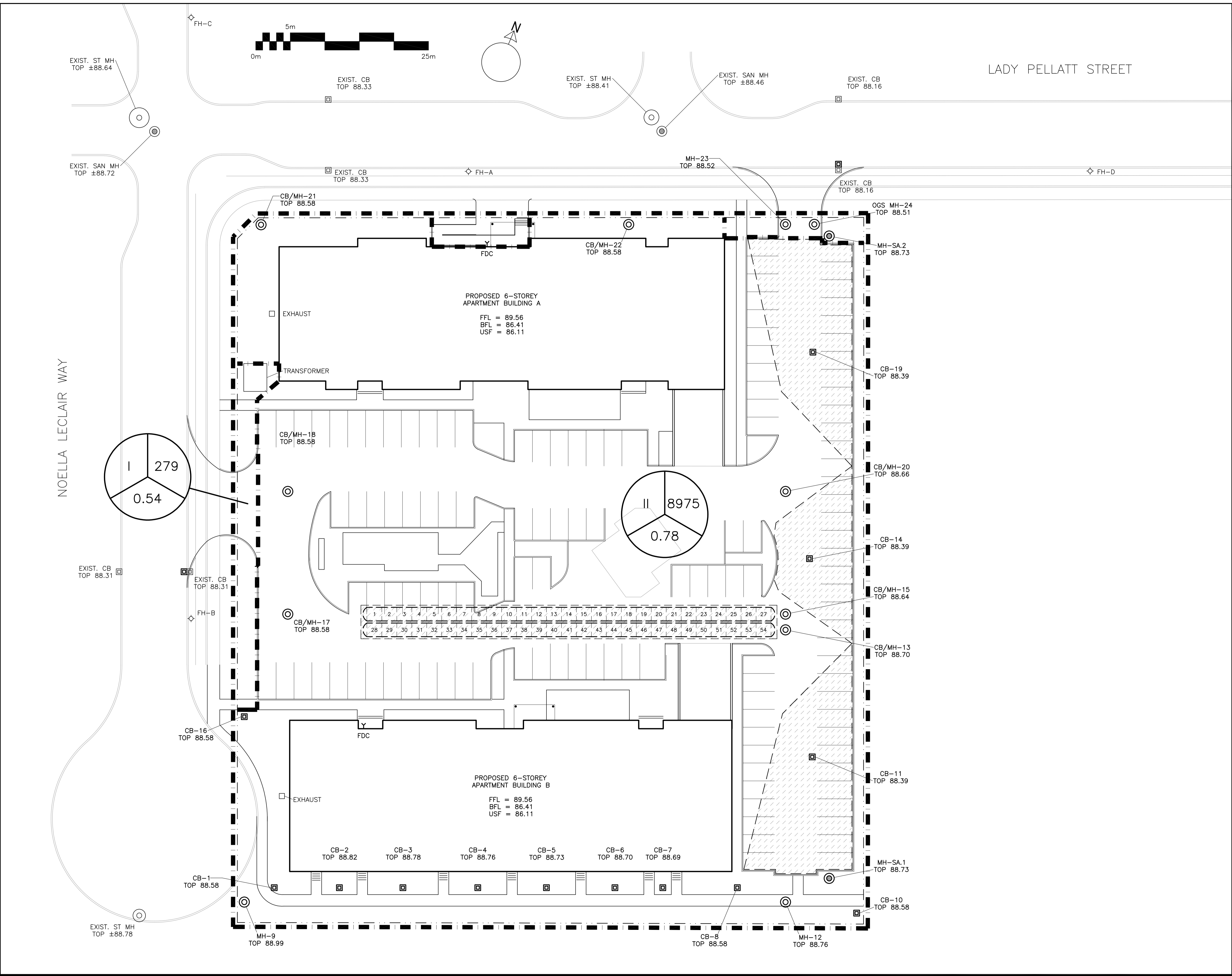
Project  
**PROPOSED 6-STORY APARTMENT BUILDINGS**  
 1001 NOELLA LECLAIR WAY  
 OTTAWA, ONTARIO

## DETAILS & SCHEDULES

Engineer's Seal  
  
 NOT VALID UNLESS SIGNED & DATED

Drawn D.B.G.  
 H. Scale  
 V. Scale  
 Date JUN 12-23  
 Job No. 22068

Drawing No.  
**C-5**  
 of 6

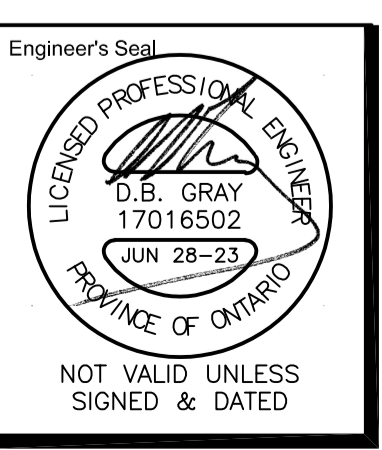


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**D. B. GRAY ENGINEERING INC.**  
*Stormwater Management - Grading & Drainage - Storm & Sanitary Sewers - Watermain*  
 700 Long Point Circle    613-425-8044  
 Ottawa, Ontario    d.gray@dbgrayengineering.com

Project  
**PROPOSED 6-STORY APARTMENT BUILDINGS**  
 1001 NOELLA LECLAIR WAY  
 OTTAWA, ONTARIO

Drawing Title  
**DRAINAGE PLAN**



Engineer's Seal  
 Drawn D.B.G.  
 H. Scale 1:250  
 V. Scale  
 Date JUN 12-23  
 Job No. 22068

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