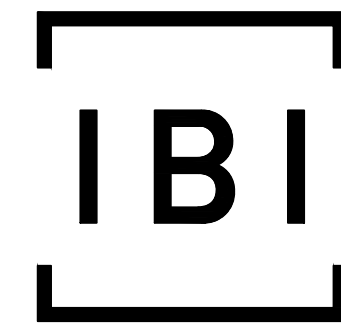
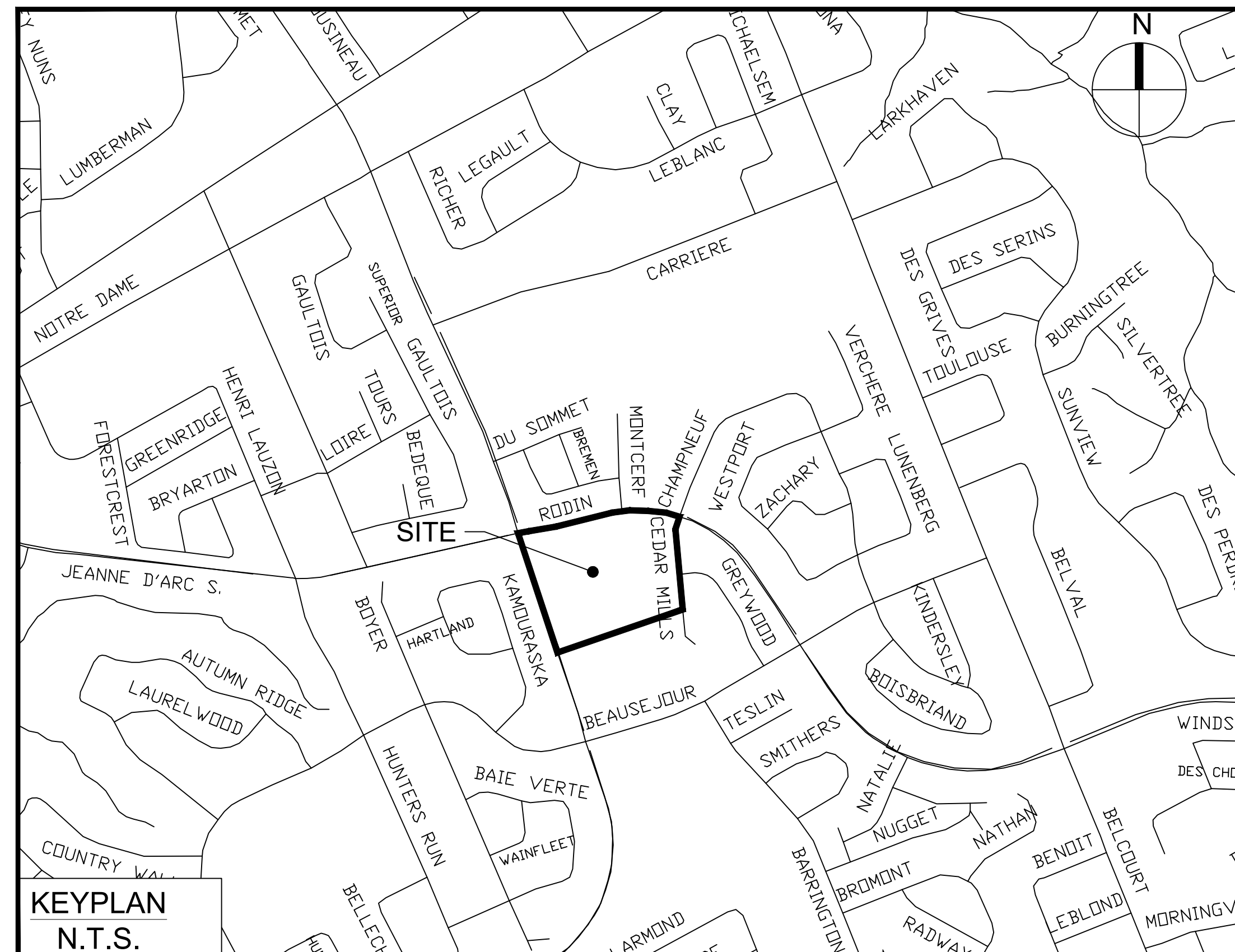


# NORTH AMERICAN DEVELOPMENT GROUP ORLEANS GARDENS



**IBI GROUP**  
400 – 333 Preston Street  
Ottawa ON K1S 5N4 Canada  
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Sheet List Table	
Sheet Number	Sheet Title
000	Cover
C-001	GENERAL PLAN OF SERVICES
C-002	REMOVAL PLAN
C-010	DETAILS AND NOTES
C-011	STREET SECTIONS
C-200	GRADING PLAN
C-400	SANITARY DRAINAGE AREA PLAN
C-401	EXTRENAL SANITARY DRAINAGE AREA PLAN
C-500	STORM DRAINAGE AREA PLAN
C-501	EXTRENAL STORM DRAINAGE AREA PLAN
C-600	PONDING PLAN
C-900	SEDIMENT-EROSION PLAN

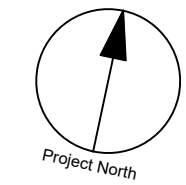
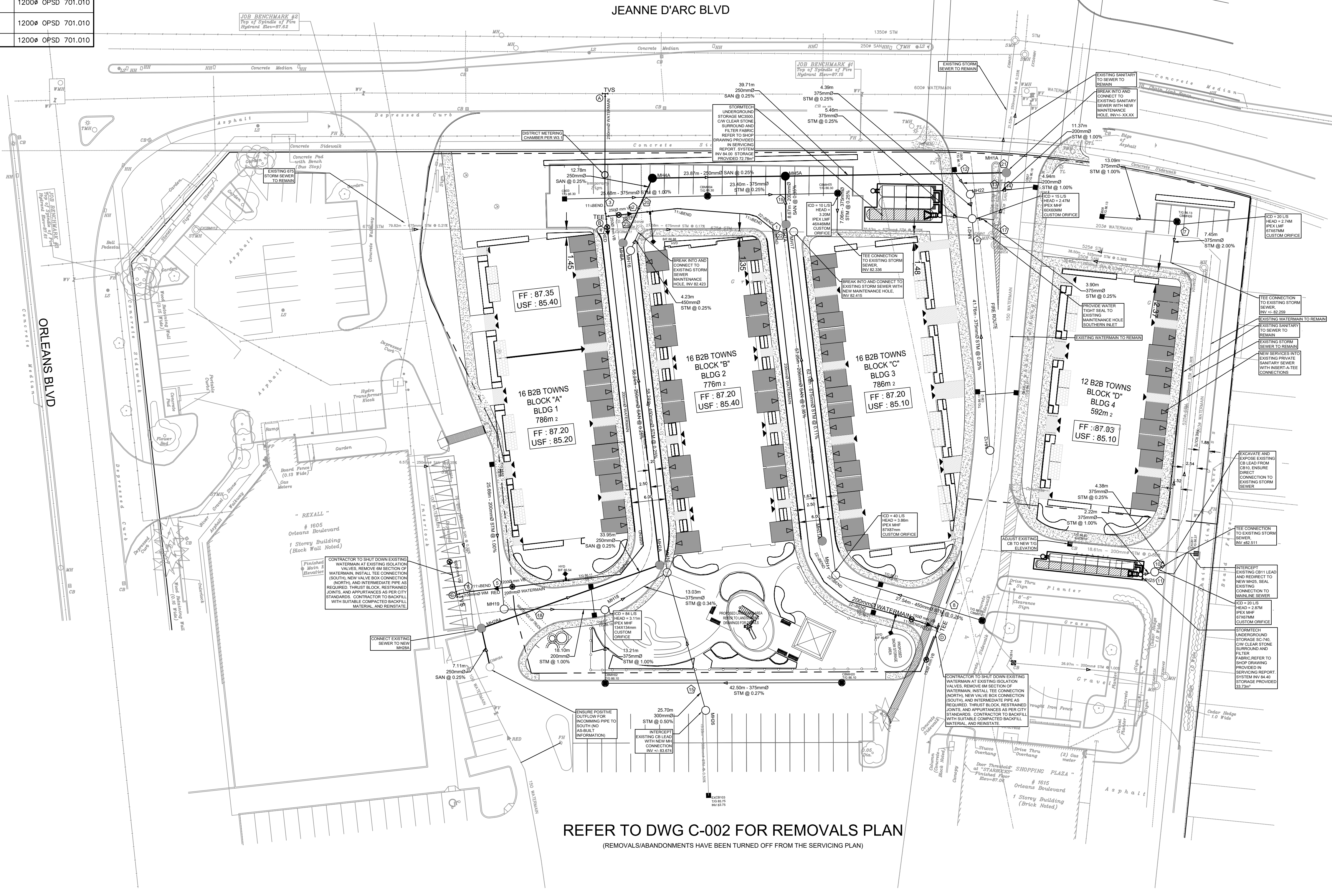
## 1615 ORLEANS BOULEVARD CITY OF OTTAWA

CONTRACT NO. 122764

STM STRUCTURE TABLE						
NAME	RIM ELEV.	INVERT IN	INVERT IN AS-BUILT	INVERT OUT	INVERT OUT AS-BUILT	DESCRIPTION
CBMH02	86.12	E83.843		N83.374		1200Ø OPSD 701.010
CBMH04	86.30	W84.643		E83.350		1200Ø OPSD 701.010
CBMH05	86.30	W83.292		S83.232		1200Ø OPSD 701.010
CBMH09	86.13	W84.599		S83.500		1200Ø OPSD 701.010
CBMH14	86.40			W82.794		1200Ø OPSD 701.010
CBMH20	86.13			W83.956		1200Ø OPSD 701.010
EXCBMH11	86.58	W82.454 S82.423		E82.423		1200Ø OPSD 701.010
EXCBMH12	83.92			E82.621		1200Ø OPSD 701.010
EXMH1	86.45	W82.266 E82.145		N82.015		1200Ø OPSD 701.010
EXMH49	86.63	W84.590		N82.577		1200Ø OPSD 701.010
EXMH50	86.48	S82.315		W82.285		1200Ø OPSD 701.010
EXMH51	83.19	S81.821				1200Ø OPSD 701.010
MH10	86.68	W83.168 S83.213		N83.063		1200Ø OPSD 701.010
MH11	86.53	E82.740		N82.485		1200Ø OPSD 701.010
MH12	86.39			N83.774		1200Ø OPSD 701.010
MH16	86.65	S82.917		N82.434		1200Ø OPSD 701.010
MH17	86.60	S82.415 W82.375		N82.355		1200Ø OPSD 701.010
MH18	86.19	W83.417 S83.242		N83.212		1200Ø OPSD 701.010
MH19	86.53	N83.658		E83.598		1200Ø OPSD 701.010
MH21	86.28	S83.670 W83.956 N83.670		E83.610		1200Ø OPSD 701.010
MH22	86.25	E84.666 N84.711		S83.681		1200Ø OPSD 701.010
MH25	86.55	SW84.378		E84.170 N83.461		1200Ø OPSD 701.010
MH26	86.23	S83.674		N83.341		1200Ø OPSD 701.010

SAN STRUCTURE TABLE						
NAME	RIM ELEV.	INVERT IN	INVERT IN AS-BUILT	INVERT OUT	INVERT OUT AS-BUILT	DESCRIPTION
EXMH1A	86.49	E83.993		N83.963		1200Ø OPSD 701.010
EXMH2A	86.44	S84.146		W84.116		1200Ø OPSD 701.010
EXMH03A	86.58			N84.408		1200Ø OPSD 701.010
EXMH9A	86.57			NW84.453		1200Ø OPSD 701.010
EXSANMH	84.70	S83.840				1200Ø OPSD 701.010
MH1A	86.29	W83.914 S83.894		N83.894		1200Ø OPSD 701.010
MH2A	86.53	SW84.330		N84.310		1200Ø OPSD 701.010
MH4A	86.42	S84.113		E84.093		1200Ø OPSD 701.010
MH5A	86.46	W84.033 S84.073		E84.013		1200Ø OPSD 701.010
MH7A	86.61	S84.123		N84.103		1200Ø OPSD 701.010
MH8A	86.67	S84.165		N84.145		1200Ø OPSD 701.010
MH11A	86.65			N84.324		1200Ø OPSD 701.010
MH28A	86.68	NW84.435 SE84.435		N84.415		1200Ø OPSD 701.010
MH29A	86.69	W84.559		SE84.499		1200Ø OPSD 701.010

WATERMAIN SCHEDULE					
Station	Description	Finished Grade	Top of Watermain	As Built Watermain	
A	0+000.00	TVS	86.27	83.87	
	0+014.57	DMA CHAMBER	86.45	84.05	
	0+020.35	11 1/4 BEND	86.48	84.08	
B	0+022.07	TEE	86.51	84.11	
	0+024.02	VB	86.54	84.14	
	0+025.40	250-200RED	86.58	84.18	
	0+052.16		86.76	84.36	
	0+081.61	45 BEND	86.58	84.18	
	0+083.41		86.55	84.15	
	0+088.22	45 BEND	86.36	83.96	
	0+098.06	HYD	86.36	83.96	
	0+107.76	VB	86.46	83.52	
	0+109.67		86.50	83.44	
	0+111.03	200-100RED	86.54	83.64	
	0+114.66		86.63	84.19	
	0+115.30	11 1/4 BEND	86.64	84.21	
	0+117.87	TVS	86.70	84.30	
B	0+000.00	TEE	86.51	84.11	
	0+002.31	VB	86.50	84.01	
	0+004.65	250-200RED	86.49	83.91	
	0+005.85		86.47	83.87	
	0+007.94	HYD	86.48	83.91	
	0+012.91	11 1/4 BEND	86.42	84.02	
	0+025.84	11 1/4 BEND	86.47	84.07	
	0+027.24	22 1/2 BEND	86.50	84.10	
	0+030.93	45 BEND	86.58	84.18	
	0+059.70		86.75	84.35	
	0+080.04	22 1/2 BEND	86.50	84.20	
	0+085.26	22 1/2 BEND	86.48	84.08	
	0+100.91	22 1/2 BEND	86.35	83.95	
	0+105.71		86.24	83.84	
	0+109.75	HYD	86.38	83.98	
	0+112.69	VB	86.34	83.94	
	0+114.14	11 1/4 BEND	86.37	83.97	
	0+116.29	200-150RED	86.43	84.03	
D	0+117.73	TEE	86.48	84.08	



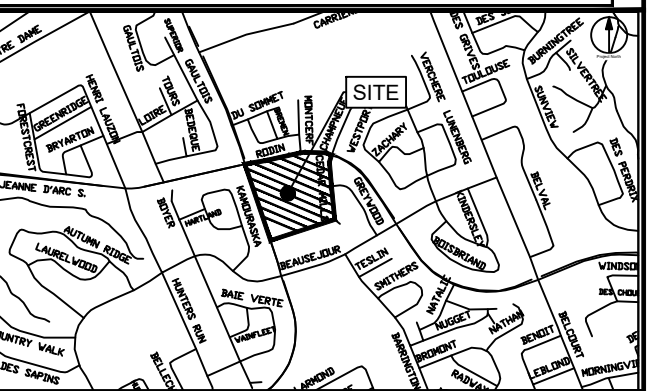
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ISSUES		
No.	DESCRIPTION	DATE
1	ISSUED FOR CITY REVIEW	2023-02-06

SEE 010, 011, 012 FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS.



CONSULTANTS  
Project Coordinator:  
North American Development Group

Site Plan Architect:  
Q4 Architects Inc.

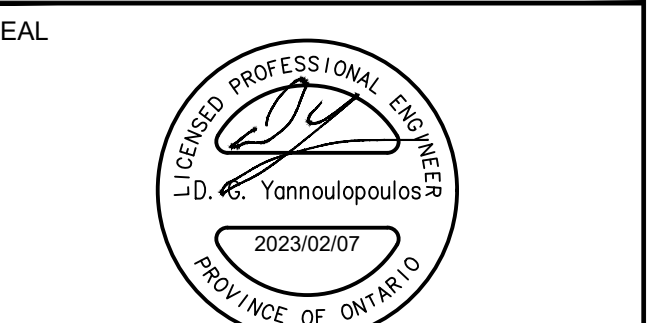
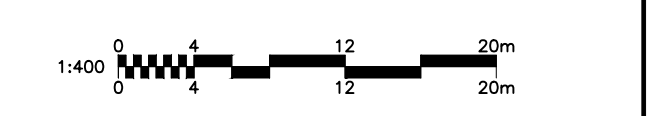
Surveyor:  
Fairhall, Moffatt and Woodland Ltd.

Geotechnical:  
Paterson Group

Traffic:  
IBI Group

Electrical:  
Hammerschlag & Joffe Inc.

Landscape:  
Lestvsek Consultants Inc.



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PROJECT  
**ORLEANS GARDENS**  
1615 ORLEANS BOULEVARD

PROJECT NO:  
122764  
DRAWN BY:  
A.B. / E.H.  
PROJECT MGR:  
R.M.

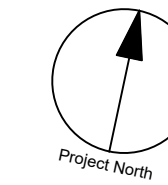
CHECKED BY:  
D.G.Y.  
APPROVED BY:  
D.G.Y.

SHEET TITLE  
**GENERAL PLAN OF SERVICES**

SHEET NUMBER  
**C-001**  
ISSUE  
**1**

CITY FILE No. D07-XX-XX-XXXX  
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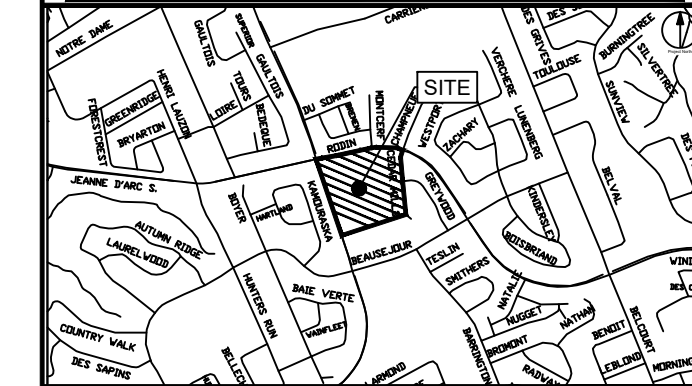
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**ISSUES**

No.	DESCRIPTION	DATE
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**CONSULTANTS**

Project Coordinator:  
North American Development Group

Site Plan Architect:  
Q4 Architects Inc.

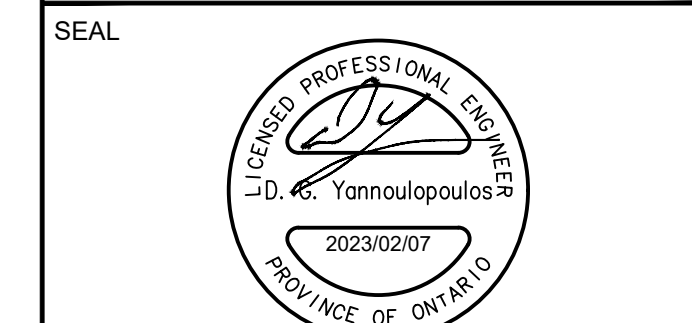
Surveyor:  
Fairhall, Moffatt and Woodland Ltd.

Geotechnical:  
Pateron Group

Traffic:  
IBI Group

Electrical:  
Hammerschlag & Joffe Inc.

Landscape:  
Levstek Consultants Inc.



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**PROJECT**  
**ORLEANS GARDENS**  
**1615 ORLEANS BOULEVARD**

PROJECT NO:  
122764

DRAWN BY:  
A.B. / E.H.

CHECKED BY:  
D.G.Y.

PROJECT MGR:  
R.M.

APPROVED BY:  
D.G.Y.

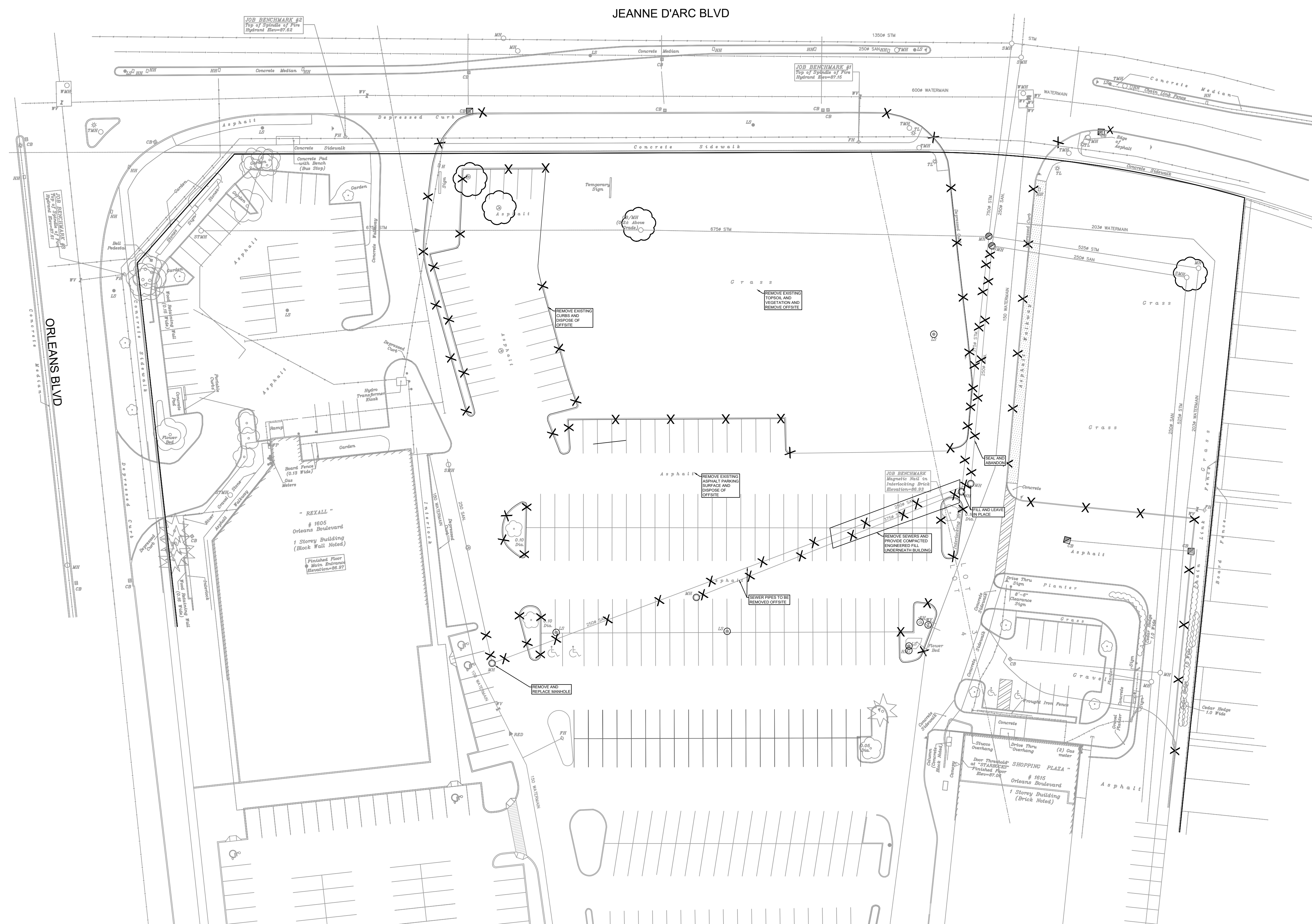
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**REMOVAL PLAN**

SHEET NUMBER  
**C-002**

ISSUE  
**1**

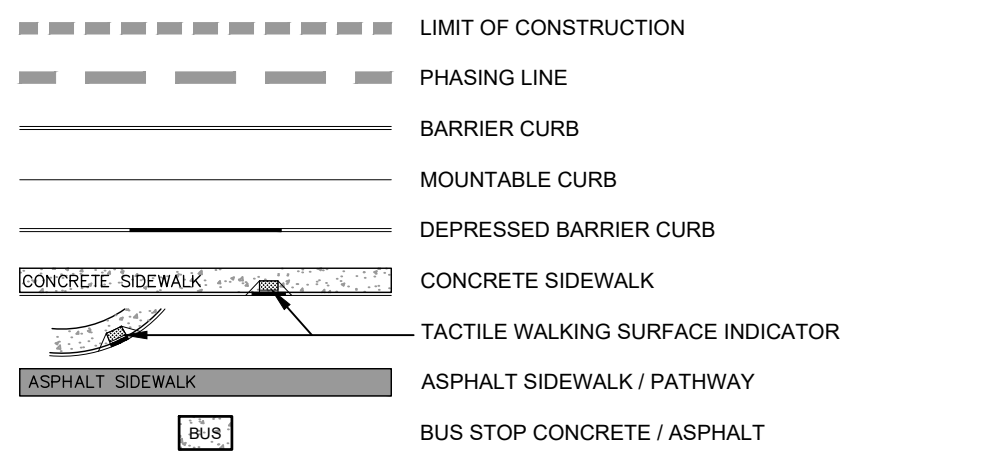
**REMOVALS LEGEND**

- REMOVAL
- ⊗ ADJUST MANHOLE, VALVES
- ⊠ ADJUST CATCH BASIN
- ⊙ ADJUSTMENT BY BELL OR HYDRO APPROVED CONTRACTOR
- ✕ REMOVE OR ABANDON SEWER, WATERMAIN, UTILITY, CURB RETURNS
- ⌋ PLUG
- DRY GRIND EXISTING ASPHALT. AVERAGE DEPTH 50mm.
- FULL DEPTH ASPHALT REMOVAL
- AREA TO BE CLEARED AND GRUBBED
- REMOVAL OF BUILDINGS, FOUNDATIONS, SEPTIC SYSTEM AND WELL
- REMOVALS OF CONCRETE/ ASPHALT SIDEWALK

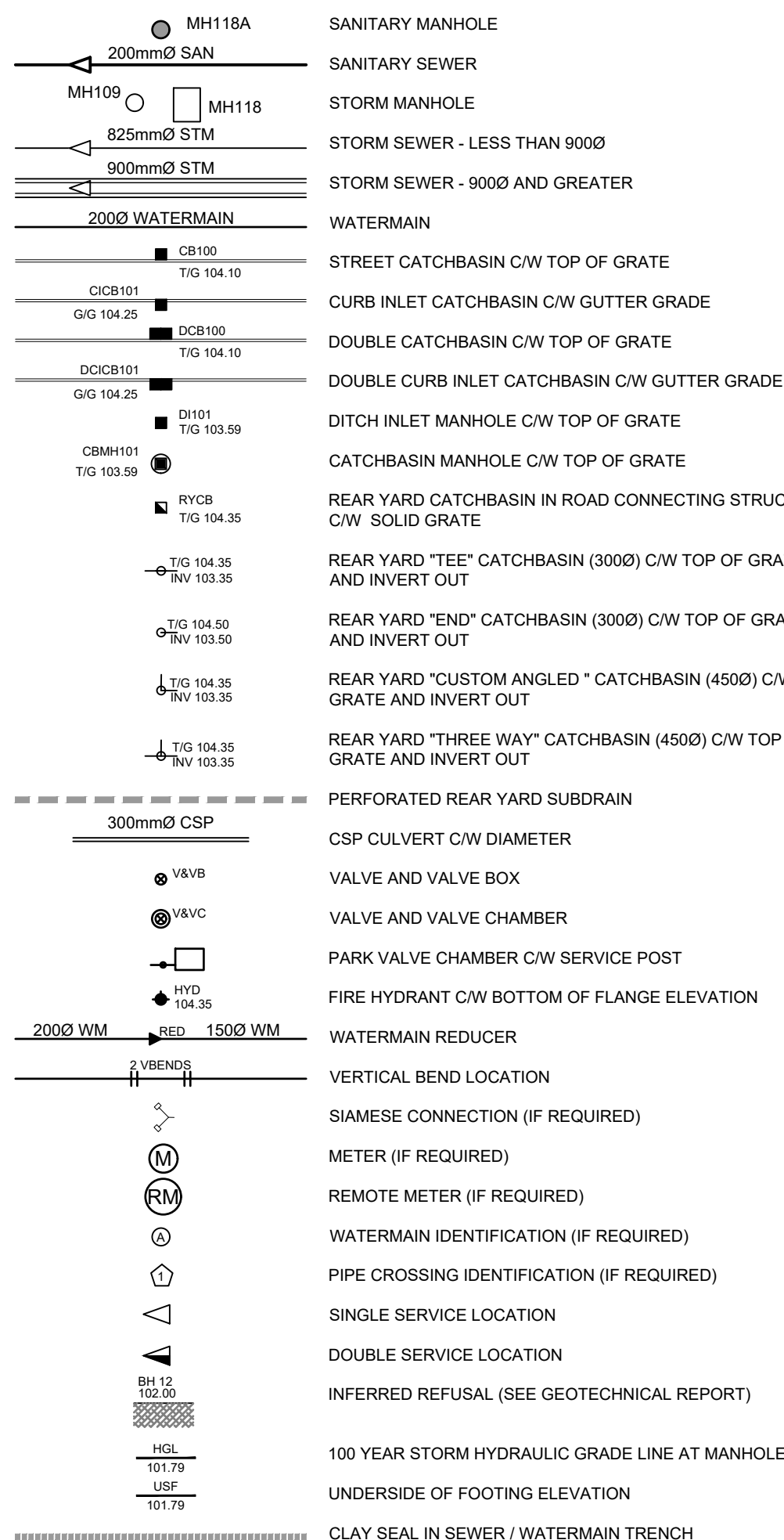


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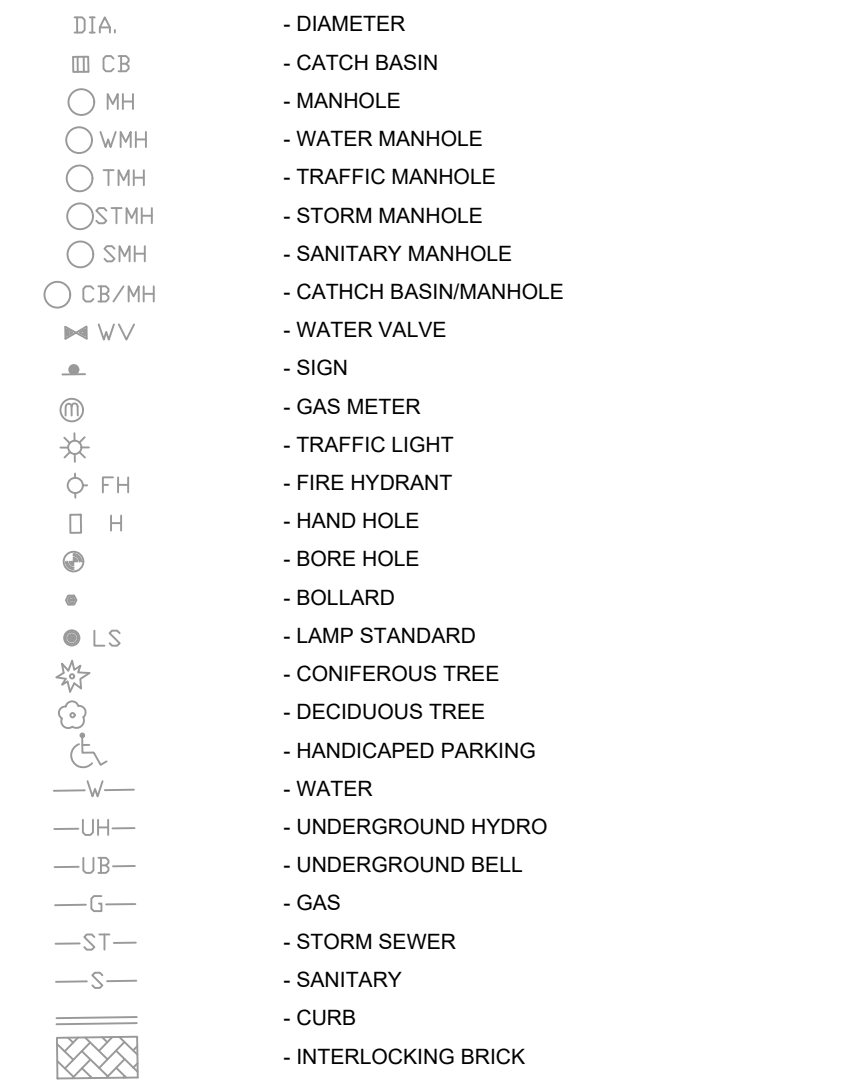
GENERAL LEGEND



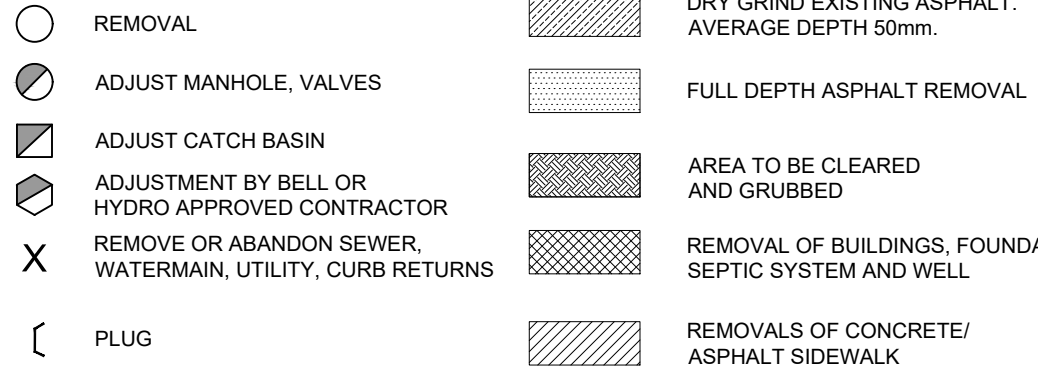
SERVICING LEGEND



LEGEND - FAIRHALL, MOFFATT & WOODLAND LTD.



REMOVALS LEGEND



CATCH BASIN DATA TABLE with columns for Structure ID, Area ID, Structure, Cover, Elevation, Invert, Outlet Pipe, Head, Flow, KD Type, and Orifice Size.

Pipe Interference Table with columns for Crossing No., Pipe 1, Pipe 2, and Clearance.

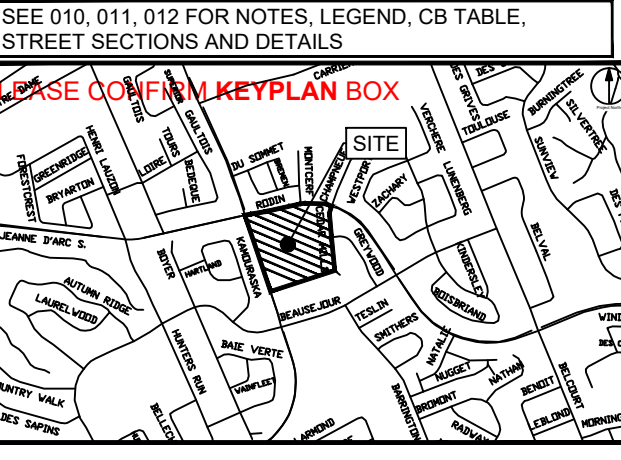
NOTES

- 1. ALL MATERIALS AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE CURRENT CITY OF OTTAWA STANDARD DRAWINGS & SPECIFICATIONS OR OPSP/OPSS IF CITY DRAWINGS AND SPECIFICATIONS DO NOT APPLY.

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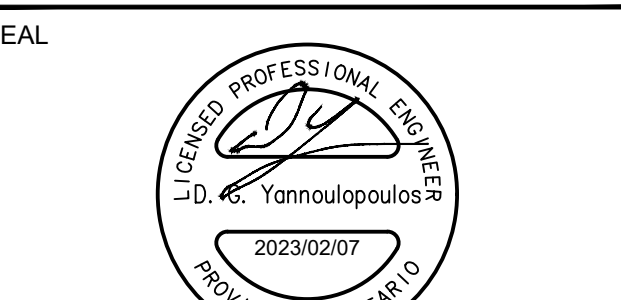
ISSUES table with columns for No., Description, and Date.



CONSULTANTS Project Coordinator: North American Development Group Site Plan Architect: Q4 Architects Inc.

Surveyor: Fairhall, Moffatt and Woodland Ltd. Geotechnical: Paterson Group Traffic: IBI Group

Electrical: Hammerschlag & Joffe Inc. Landscape: Levstek Consultants Inc.



- SEAL 30. INLET CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMPLETING THE ROAD BASE (GRANULAR A).

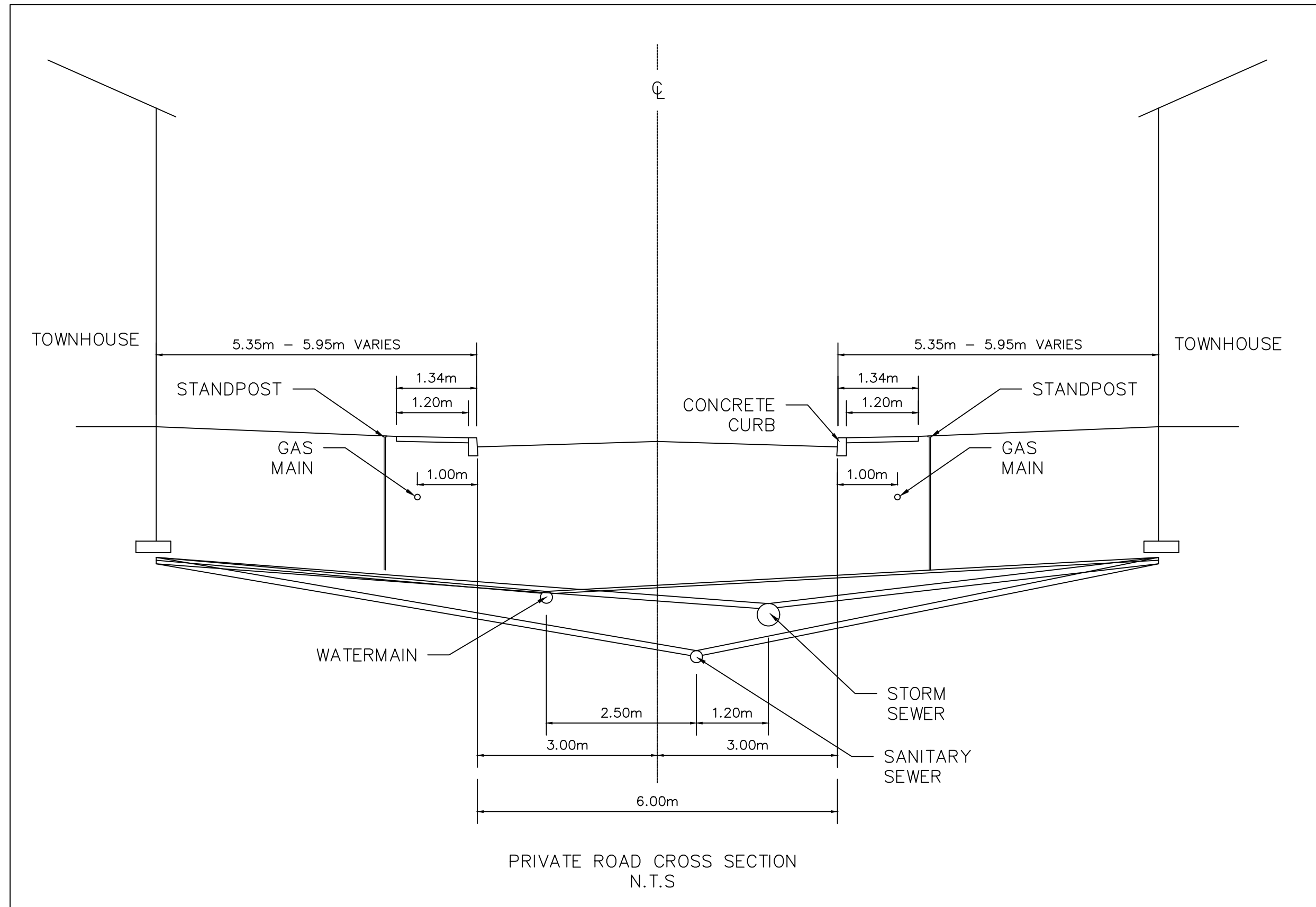
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PROJECT ORLEANS GARDENS 1615 ORLEANS BOULEVARD

PROJECT NO: 122764 DRAWN BY: A.B. / E.H. CHECKED BY: R.M./D.G.Y.

SHEET TITLE GENERAL NOTES, LEGEND AND CB DATA TABLE

SHEET NUMBER C-010 ISSUE 1

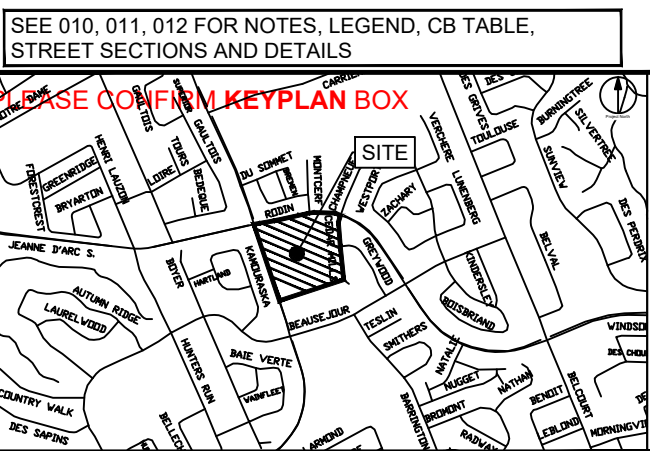


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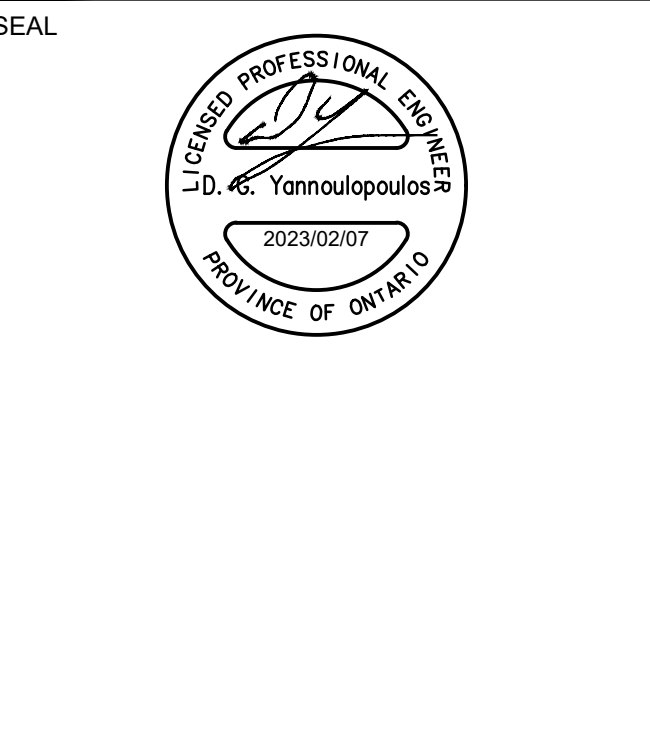
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**ISSUES**

No.	DESCRIPTION	DATE
1	ISSUED FOR CITY REVIEW	2023-02-06



**CONSULTANTS**  
Project Coordinator:  
North American Development Group  
Site Plan Architect:  
Q4 Architects Inc.  
Surveyor:  
Fairhall, Moffatt and Woodland Ltd.  
Geotechnical:  
Paterson Group  
Traffic:  
IBI Group  
Electrical:  
Hammerschlag & Joffe Inc.  
Landscape:  
Levstek Consultants Inc.



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**PROJECT**  
**ORLEANS GARDENS**  
  
1615 ORLEANS BOULEVARD

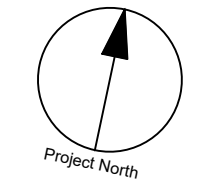
PROJECT NO:  
122764  
DRAWN BY:  
A.B. / E.H.  
PROJECT MGR:  
R.M.  
CHECKED BY:  
R.M./D.G.Y.  
APPROVED BY:  
D.G.Y.

SHEET TITLE  
**STREET SECTIONS**

SHEET NUMBER  
**C-011**  
ISSUE  
**1**

**GRADING LEGEND**

- PROPOSED DITCH C/W FLOW DIRECTION AND SLOPE
- SLOPE C/W FLOW DIRECTION
- MAJOR OVERLAND FLOW ROUTE
- PROPOSED SPOT GRADE
- PROPOSED SWALE GRADE
- PROPOSED SWALE HIGH POINT GRADE
- LOT CORNER GRADE C/W EXISTING GRADE
- FULL STATIC PONDING GRADE
- RETAINING WALL C/W TOP OF WALL AND GRASS GRADE
- TERRACING 3:1 MAXIMUM UNLESS NOTED OTHERWISE
- PRESSURE REDUCING VALVE
- FF : 87.20 FINISHED FLOOR ELEVATION
- USF : 85.10 UNDERSIDE OF FOOTING ELEVATION
- NUMBER OF RISERS
- NOISE BARRIER LOCATION
- NOISE BARRIER GATE
- RIP-RAP
- TOWN HOUSE SPLITS



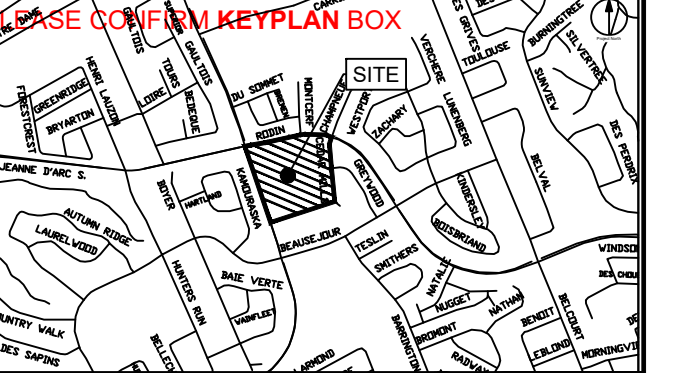
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CONSULTANTS

Project Coordinator:  
North American Development Group

Site Plan Architect:  
Q4 Architects Inc.

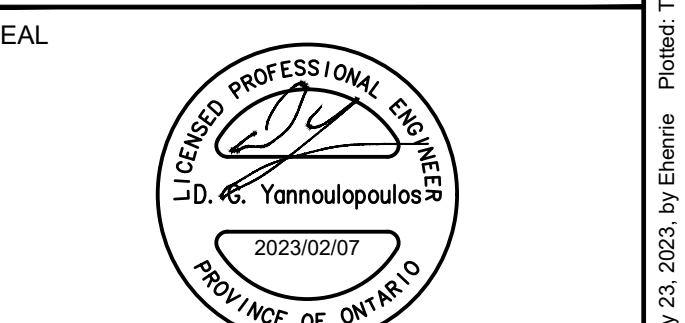
Surveyor:  
Fairhall, Moffatt and Woodland Ltd.

Geotechnical:  
Paterson Group

Traffic:  
IBI Group

Electrical:  
Hammerschlag & Joffe Inc.

Landscape:  
Levstek Consultants Inc.



SEAL

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PROJECT  
**ORLEANS GARDENS**  
  
1615 ORLEANS BOULEVARD

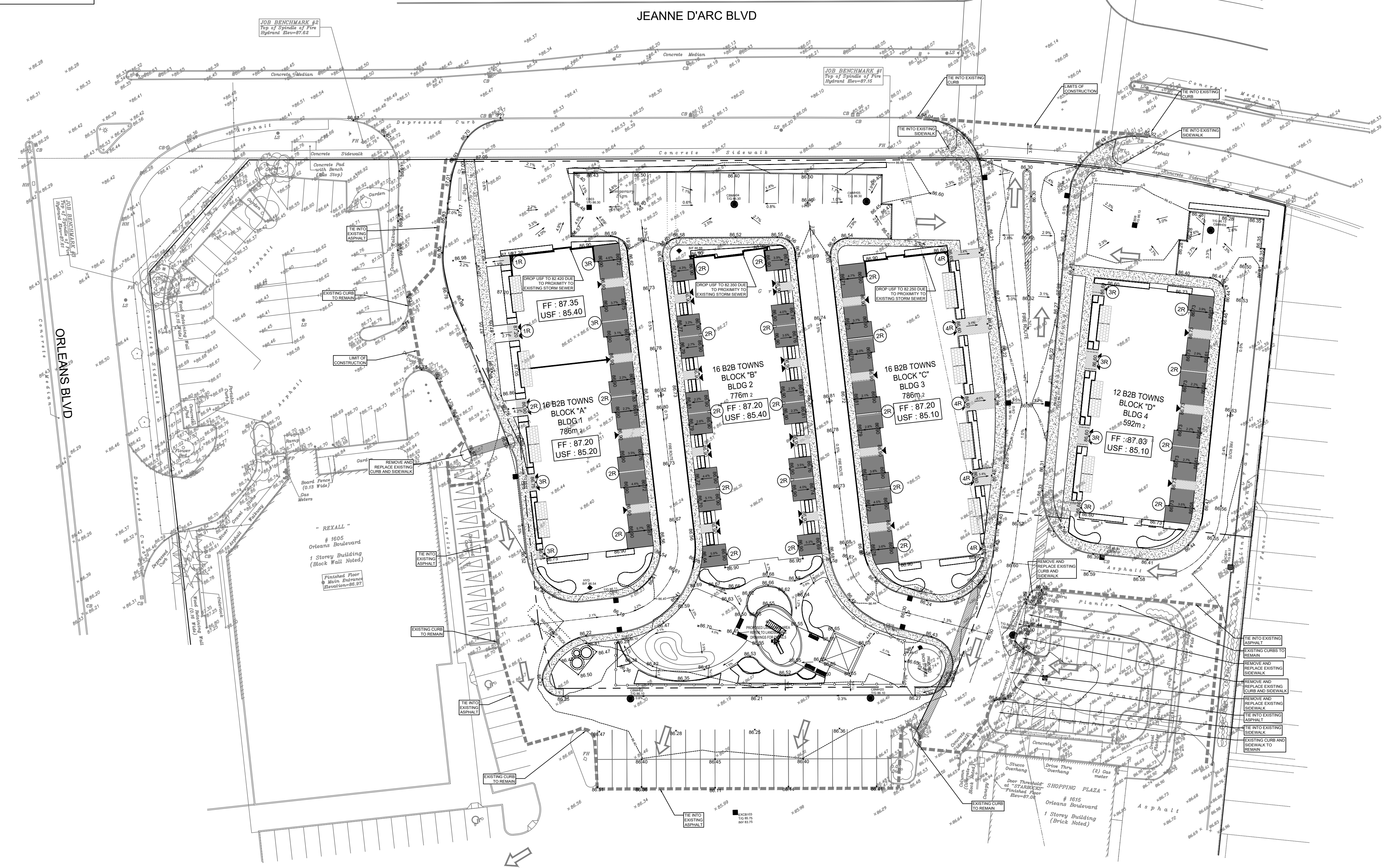
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122764  
DRAWN BY:  
A.B. / E.H.  
PROJECT MGR:  
R.M.

CHECKED BY:  
R.M./D.G.Y.  
APPROVED BY:  
D.G.Y.

SHEET TITLE  
**GRADING PLAN**

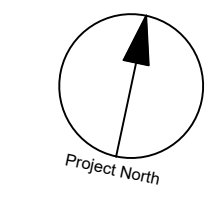
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**C-200**

ISSUE  
**1**



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CITY PLAN No. xxxxx



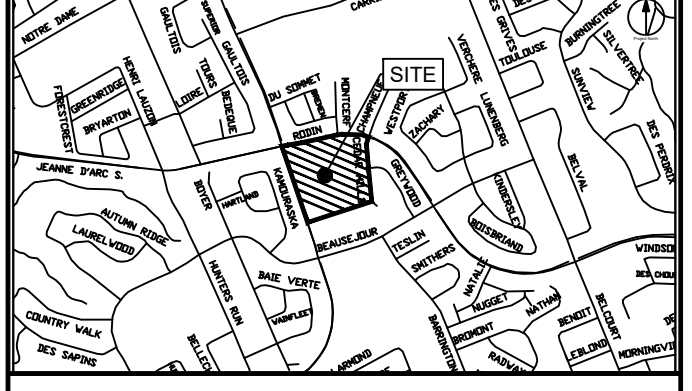
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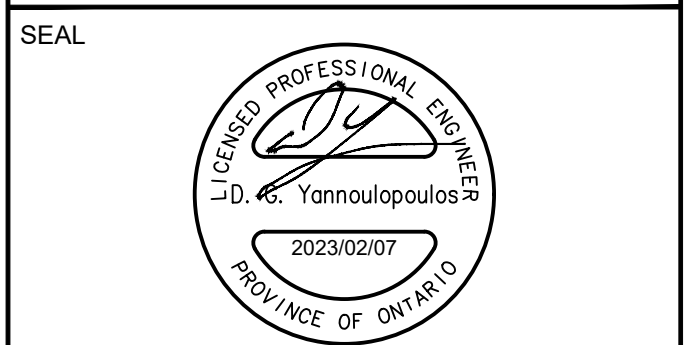
**ISSUES**

No.	DESCRIPTION	DATE
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Fairhall, Moffatt and Woodland Ltd.  
Geotechnical:  
Pateron Group  
Traffic:  
IBI Group  
Electrical:  
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Landscape:  
Levstek Consultants Inc.



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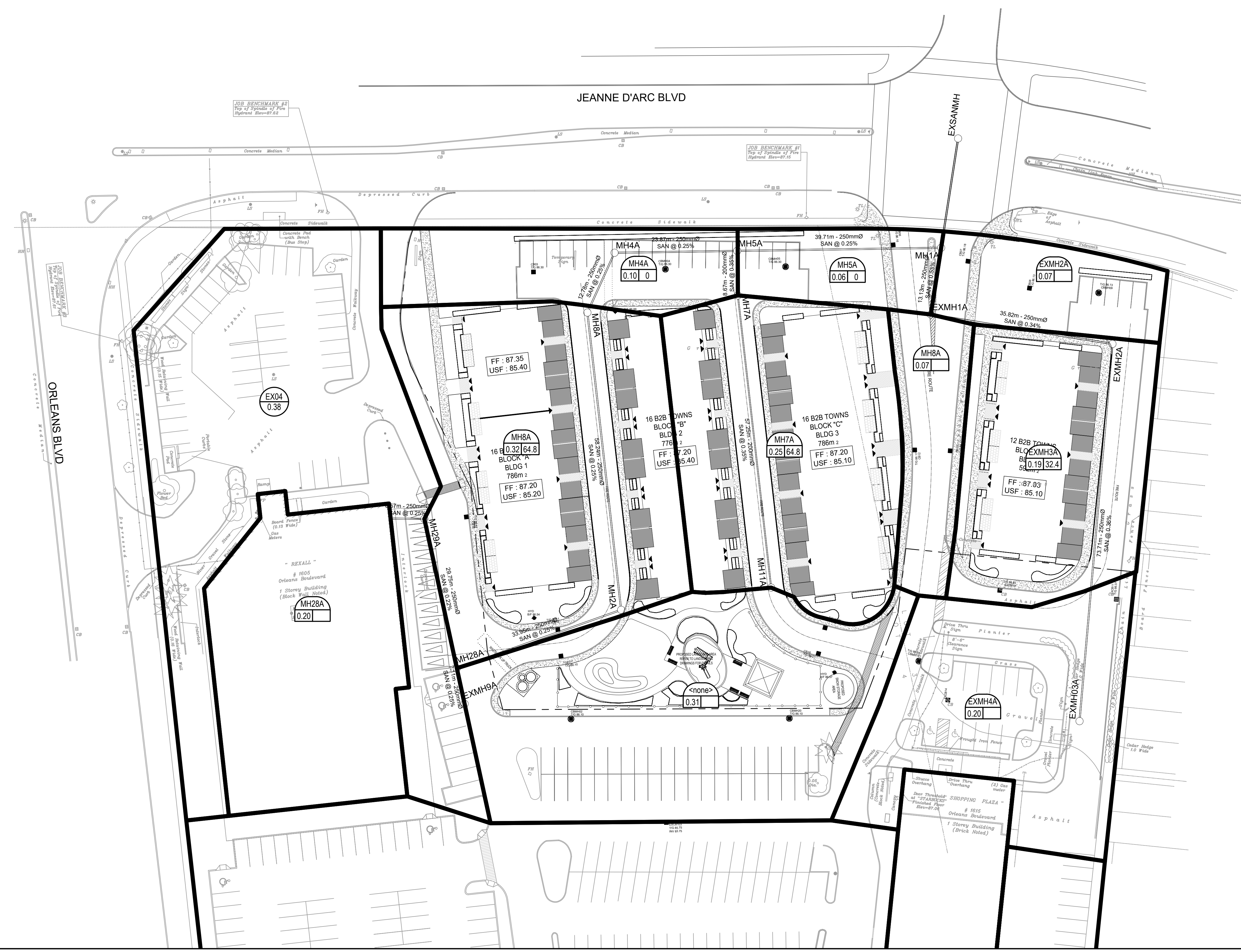
**PROJECT**  
**ORLEANS GARDENS**  
1615 ORLEANS BOULEVARD

**PROJECT NO:**  
122764  
**DRAWN BY:**  
A.B. / E.H.  
**PROJECT MGR:**  
R.M.**CHECKED BY:**  
D.G.Y.  
**APPROVED BY:**  
D.G.Y.**SHEET TITLE**  
SANITARY DRAINAGE AREA PLAN

**SHEET NUMBER**  
**C-400**  
**ISSUE**  
**1**

**LEGEND**

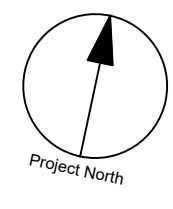
- SANITARY TRIBUTARY OUTLINE
- AREA NUMBER
- POPULATION
- AREA (ha)



CITY FILE No. D07-XX-XX-XXXX  
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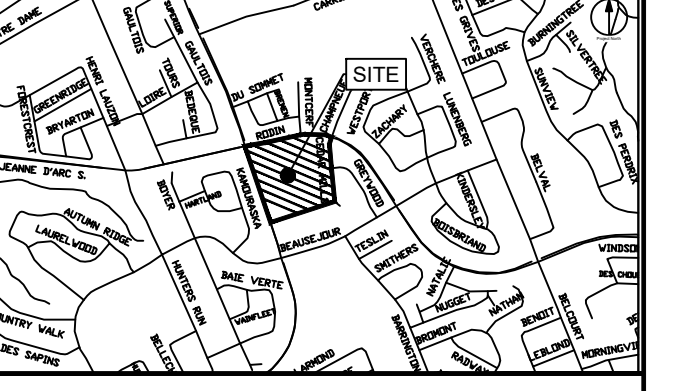
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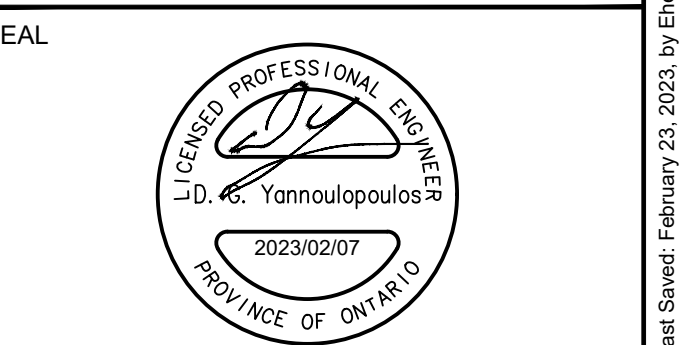
**ISSUES**

No.	DESCRIPTION	DATE
1	ISSUED FOR CITY REVIEW	2023-02-06

SEE 010, 011, 012 FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS



**CONSULTANTS**  
Project Coordinator:  
North American Development Group  
Site Plan Architect:  
Q4 Architects Inc.  
Surveyor:  
Fairhall, Moffatt and Woodland Ltd.  
Geotechnical:  
Paterson Group  
Traffic:  
IBI Group  
Electrical:  
Hammerschlag & Joffe Inc.  
Landscape:  
Levstek Consultants Inc.



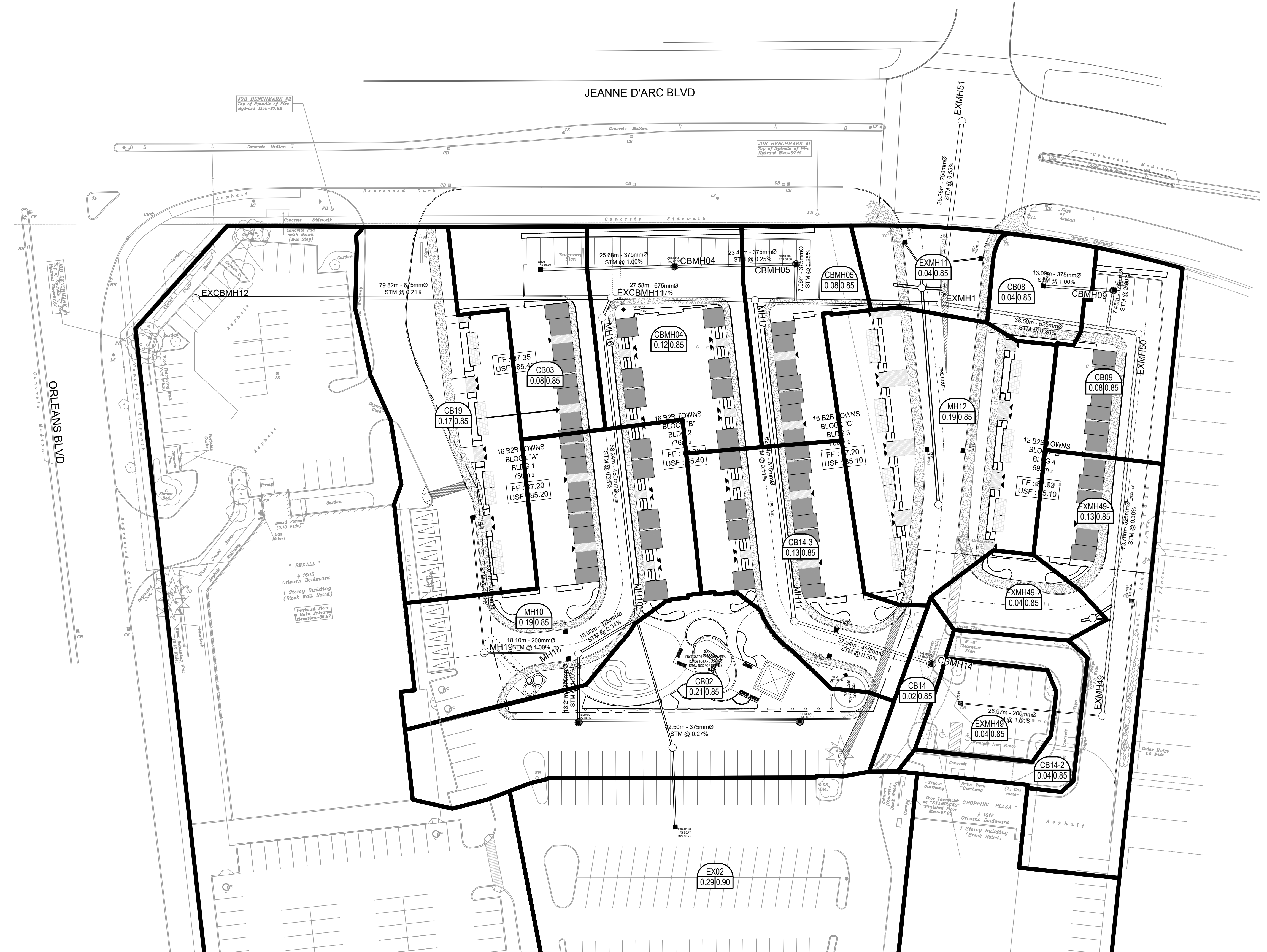
**IBI GROUP**  
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ibigroup.com

**PROJECT**  
ORLEANS GARDENS  
1615 ORLEANS BOULEVARD  
PROJECT NO:  
122764  
DRAWN BY:  
A.B. / E.H.  
PROJECT MGR:  
R.M.  
CHECKED BY:  
D.G.Y.  
APPROVED BY:  
D.G.Y.  
**SHEET TITLE**  
STORM DRAINAGE AREA PLAN

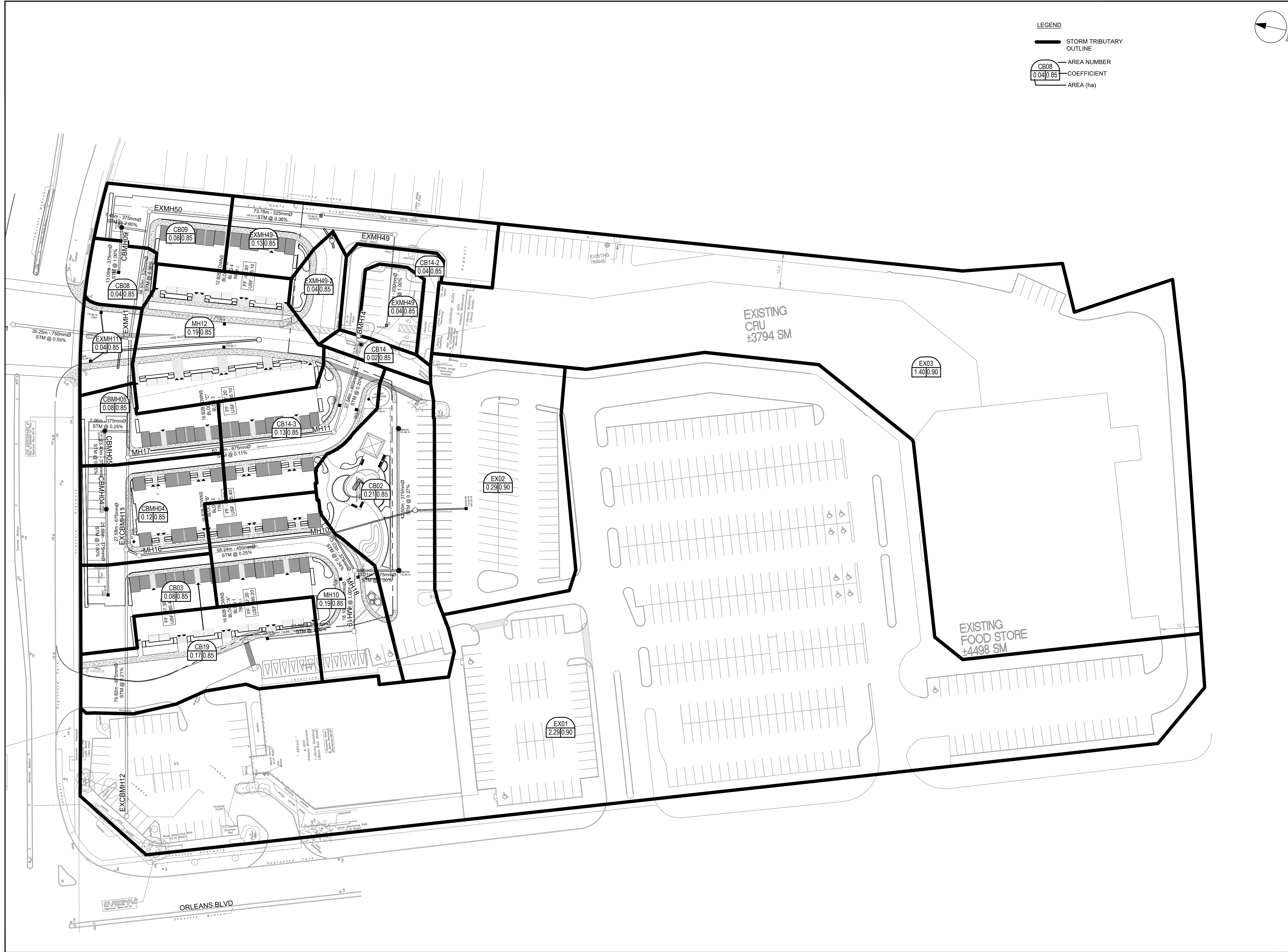
**SHEET NUMBER**  
C-500  
**ISSUE**  
1

**LEGEND**

	STORM TRIBUTARY OUTLINE
	AREA NUMBER
	COEFFICIENT
	AREA (ha)



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No.	DESCRIPTION	DATE
1	ISSUED FOR CITY REVIEW	2023-02-06

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**CONSULTANTS**  
Project Coordinator:  
North American Development Group  
Site Plan Architect:  
Q4 Architects Inc.  
Surveyor:  
Fairhall, Moffatt and Woodland Ltd.  
Geotechnical:  
Paterson Group  
Traffic:  
IBI Group  
Electrical:  
Hammerschlag & Joffe Inc.  
Landscape:  
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**PROJECT**  
ORLEANS GARDENS  
1615 ORLEANS BOULEVARD

**PROJECT NO:**  
122764

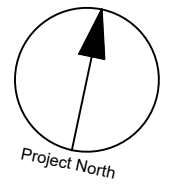
<b>DRAWN BY:</b> A.B. / E.H.	<b>CHECKED BY:</b> D.G.Y.
<b>PROJECT MGR:</b> R.M.	<b>APPROVED BY:</b> D.G.Y.

**SHEET TITLE**  
EXTERNAL STORM DRAINAGE AREA PLAN

<b>SHEET NUMBER</b> C-501	<b>ISSUE</b> 1
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CITY PLAN No. xxxxx

CITY FILE No. D07-xx-xx-xxxx



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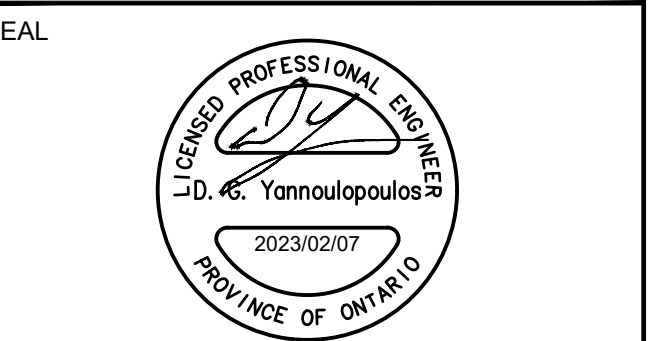
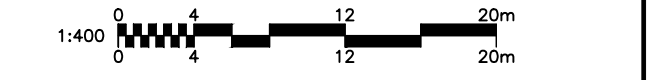
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No.	DESCRIPTION	DATE
1	ISSUED FOR CITY REVIEW	2023-02-06

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**PLEASE REFER TO KEY PLAN BOX**

**CONSULTANTS**  
Project Coordinator:  
North American Development Group  
Site Plan Architect:  
Q4 Architects Inc.  
Surveyor:  
Fairhall, Moffatt and Woodland Ltd.  
Geotechnical:  
Paterson Group  
Traffic:  
IBI Group  
Electrical:  
Hammerschlag & Joffe Inc.  
Landscape:  
Levstek Consultants Inc.

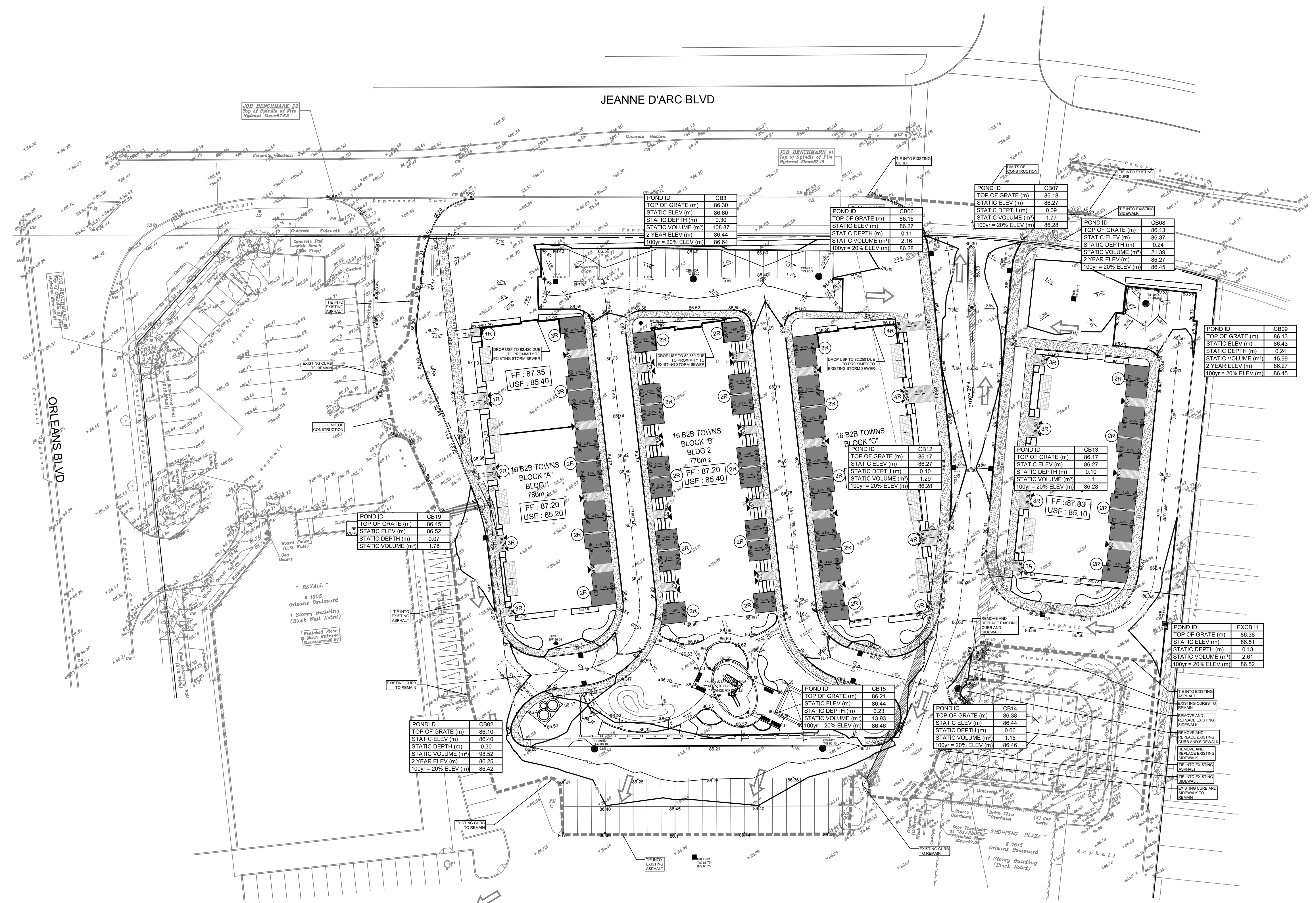


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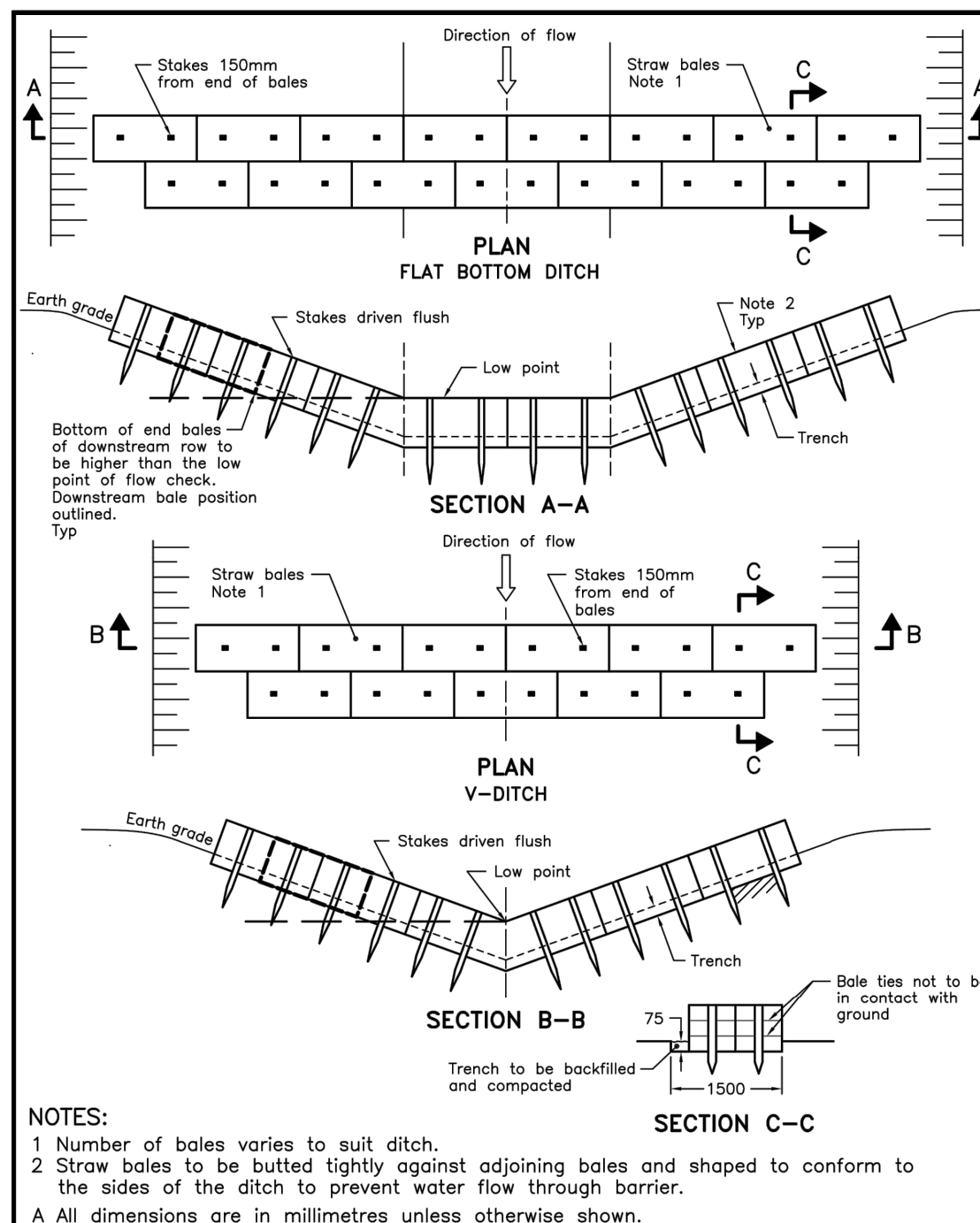
**PROJECT**  
**ORLEANS GARDENS**  
1615 ORLEANS BOULEVARD  
PROJECT NO:  
122764  
DRAWN BY:  
A.B. / E.H.  
PROJECT MGR:  
R.M.  
CHECKED BY:  
R.M./D.G.Y.  
APPROVED BY:  
D.G.Y.

**SHEET TITLE**  
**PONDING PLAN**

**SHEET NUMBER**  
**C-600**  
**ISSUE**  
**1**



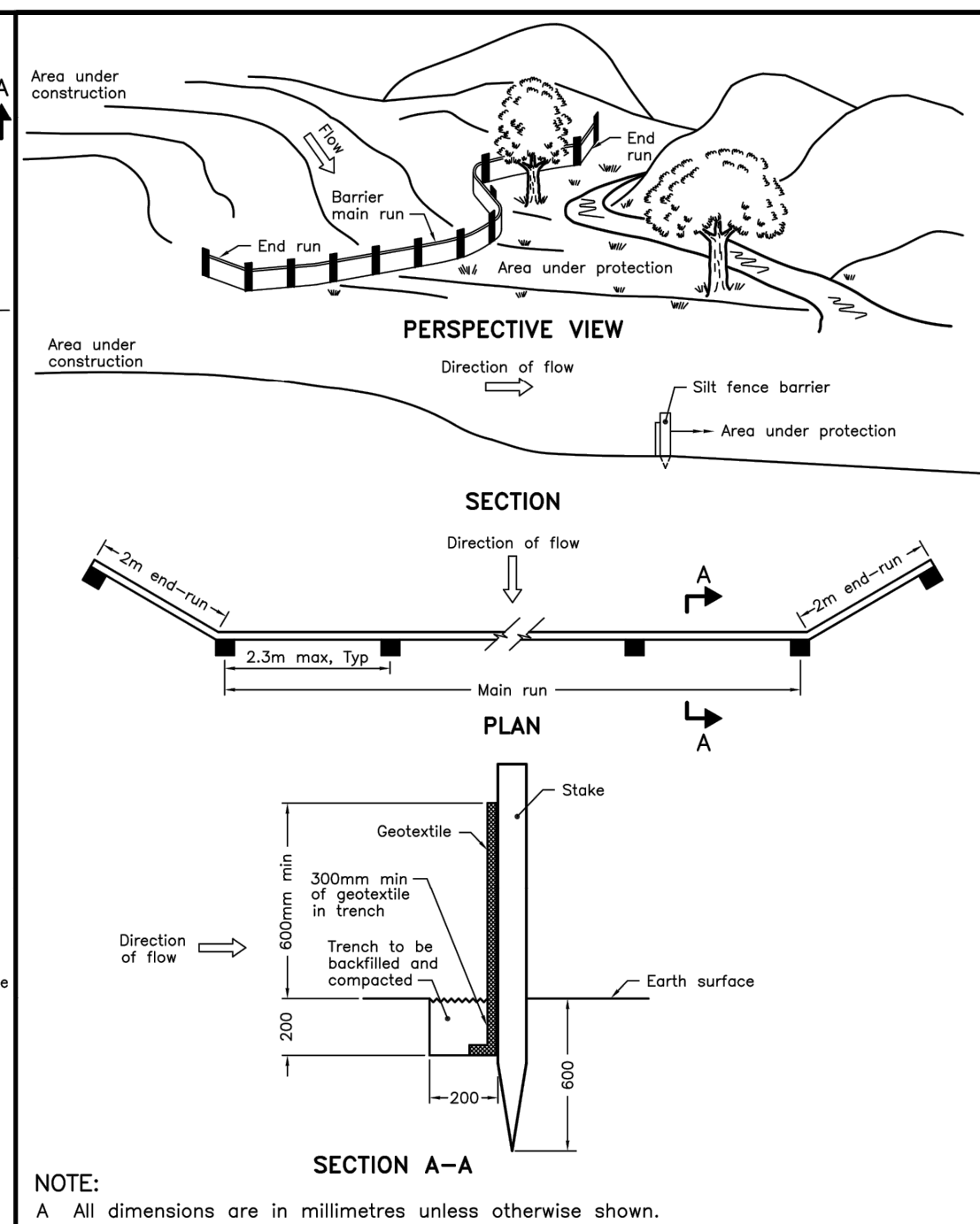
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Last Saved: February 23, 2023, by Ehenne  
Plotted: Thursday, February 23, 2023 11:35:55 AM by Eric Henne



NOTES:

- Number of bales varies to suit ditch.
- Straw bales to be butted tightly against adjoining bales and shaped to conform to the sides of the ditch to prevent water flow through barrier.
- All dimensions are in millimetres unless otherwise shown.

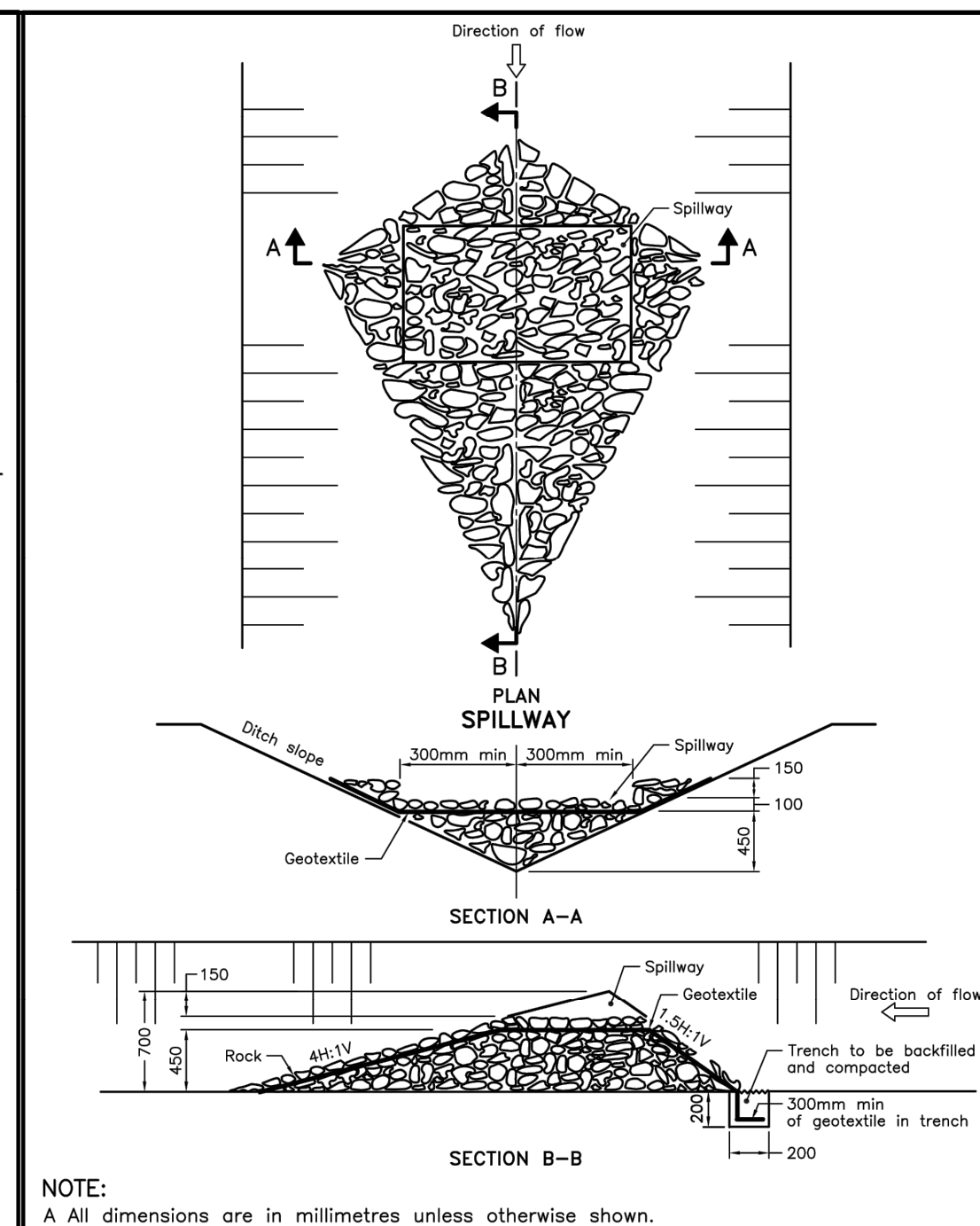
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2006	Rev 1
<b>STRAW BALE FLOW CHECK DAM</b>		
	OPSD 219.180	



NOTE:

A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2006	Rev 1
<b>LIGHT-DUTY SILTY FENCE BARRIER</b>		
	OPSD 219.110	



NOTE:

A All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2006	Rev 1
<b>ROCK FLOW CHECK DAM V-DITCH</b>		
	OPSD 219.210	

- NOTES:**
- SILT FENCE TO BE ERRECTED PRIOR TO EARTH WORKS BEING COMMENCED. SILT FENCE TO BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED OR UNTIL START OF SUBSEQUENT PHASE.
  - STRAW BALE SEDIMENT TRAPS TO BE CONSTRUCTED IN EXISTING ROAD SIDE DITCHES. TRAPS TO REMAIN AND BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED.
  - SILT SACK TO BE PLACED AND MAINTAINED UNDER COVER OF ALL CATCHBASINS. GEOTEXTILE SILT SACK IN STREET C&Bs TO REMAIN UNTIL ALL CURBS ARE CONSTRUCTED. GEOTEXTILE FABRIC IN RYCBs TO REMAIN UNTIL VEGETATION IS ESTABLISHED. ALL CATCHBASINS TO BE REGULARLY INSPECTED AND CLEANED, AS NECESSARY, UNTIL SOD AND CURBS ARE CONSTRUCTED.
  - CONTRACTOR TO PROVIDE DETAILS ON LOCATION(S) AND DESIGN OF DEWATERING TRAP(S) PRIOR TO COMMENCING WORK. CONTRACTOR ALSO RESPONSIBLE FOR MAINTAINING TRAP(S) AND ADJUSTING SIZE(S) IF DEEMED REQUIRED BY THE ENGINEER DURING CONSTRUCTION.
  - CONTRACTOR TO PROTECT EXISTING CATCHBASINS WITH FILTER CLOTH UNDER THE COVERS TO TRAP SEDIMENTATION. REFER TO IDENTIFIED STRUCTURES.
  - WORKS NOTED ABOVE ARE TO BE INSTALLED, INSPECTED, MAINTAINED AND ULTIMATELY REMOVED BY SERVICING CONTRACTOR.
  - THIS IS A "LIVING DOCUMENT" AND MAY BE MODIFIED IN THE EVENT THE PROPOSED CONTROL MEASURES ARE INSUFFICIENT.

- LEGEND:**
- LIGHT DUTY SILT FENCE AS PER OPSD-219.110
  - SNOW FENCE
  - STRAW BALE CHECK DAM AS PER OPSD-219.180
  - ROCK CHECK DAM AS PER OPSD-219.210
  - SILT SACK PLACED UNDER EXISTING CB COVER
  - TEMPORARY MUD MAT 0.15m THICK 50mm CLEAR STONE ON NON WOVEN FILTER CLOTH

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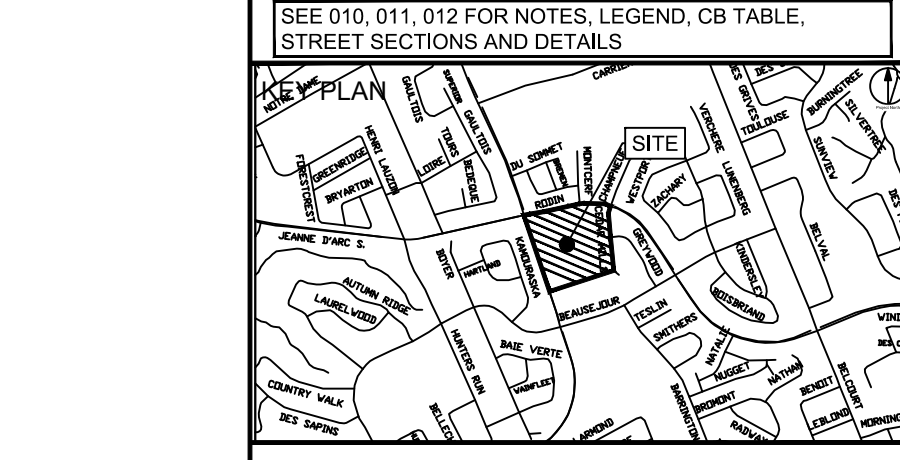
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ISSUES

No.	DESCRIPTION	DATE
1	ISSUED FOR CITY REVIEW	2023-02-06

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**LEGEND**

Project Coordinator:  
North American Development Group

Site Plan Architect:  
Q4 Architects Inc.

Surveyor:  
Fairhall, Moffatt and Woodland Ltd.

Geotechnical:  
Paterson Group

Traffic:  
IBI Group

Electrical:  
Hammerschlag & Joffe Inc.

Landscape:  
Levstek Consultants Inc.

SEAL

PROJECT

**ORLEANS GARDENS**

1615 ORLEANS BOULEVARD

PROJECT NO:  
122764

DRAWN BY:  
A.B. / E.H.

CHECKED BY:  
R.M./D.G.Y.

PROJECT MGR:  
R.M.

APPROVED BY:  
D.G.Y.

SHEET TITLE

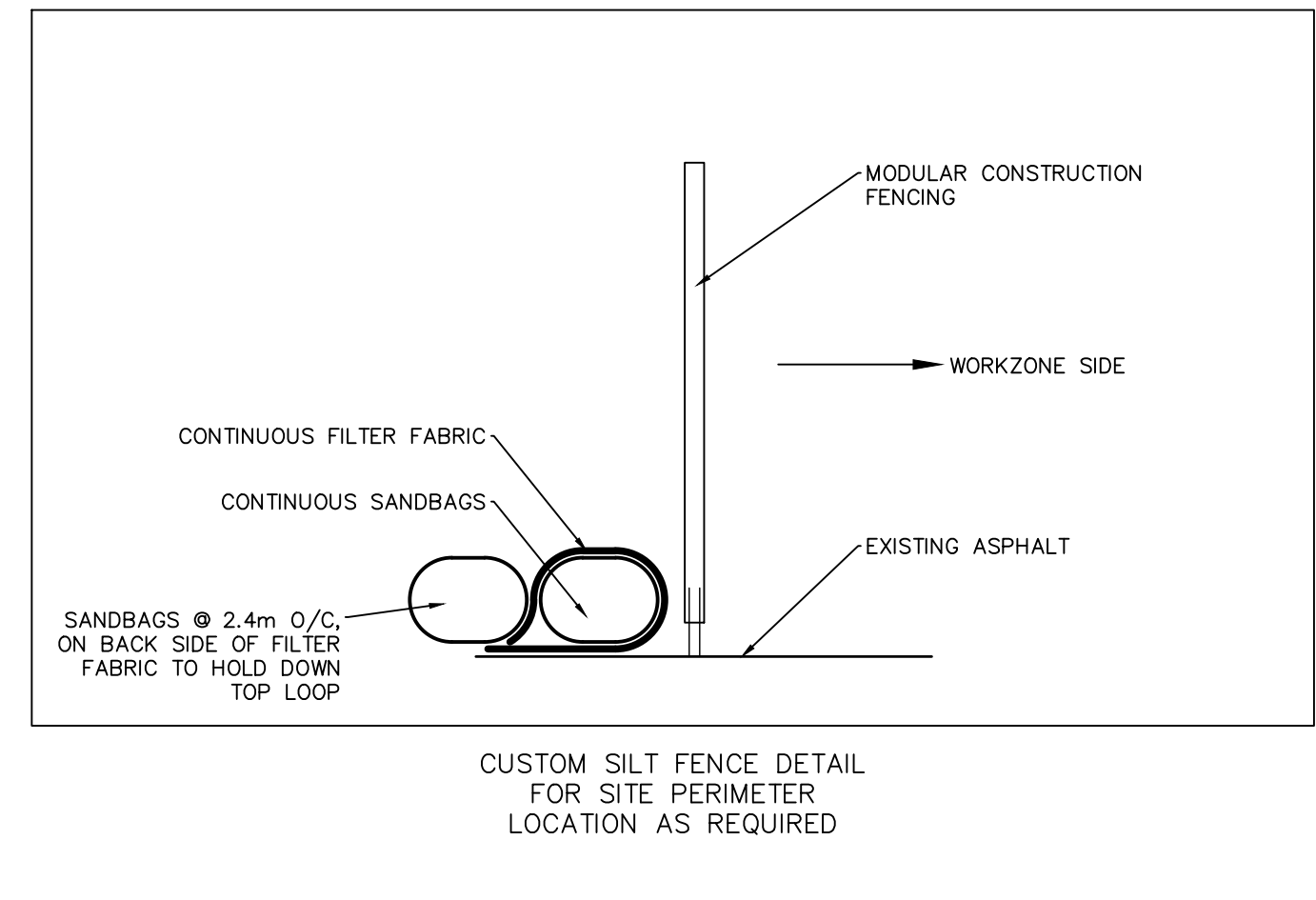
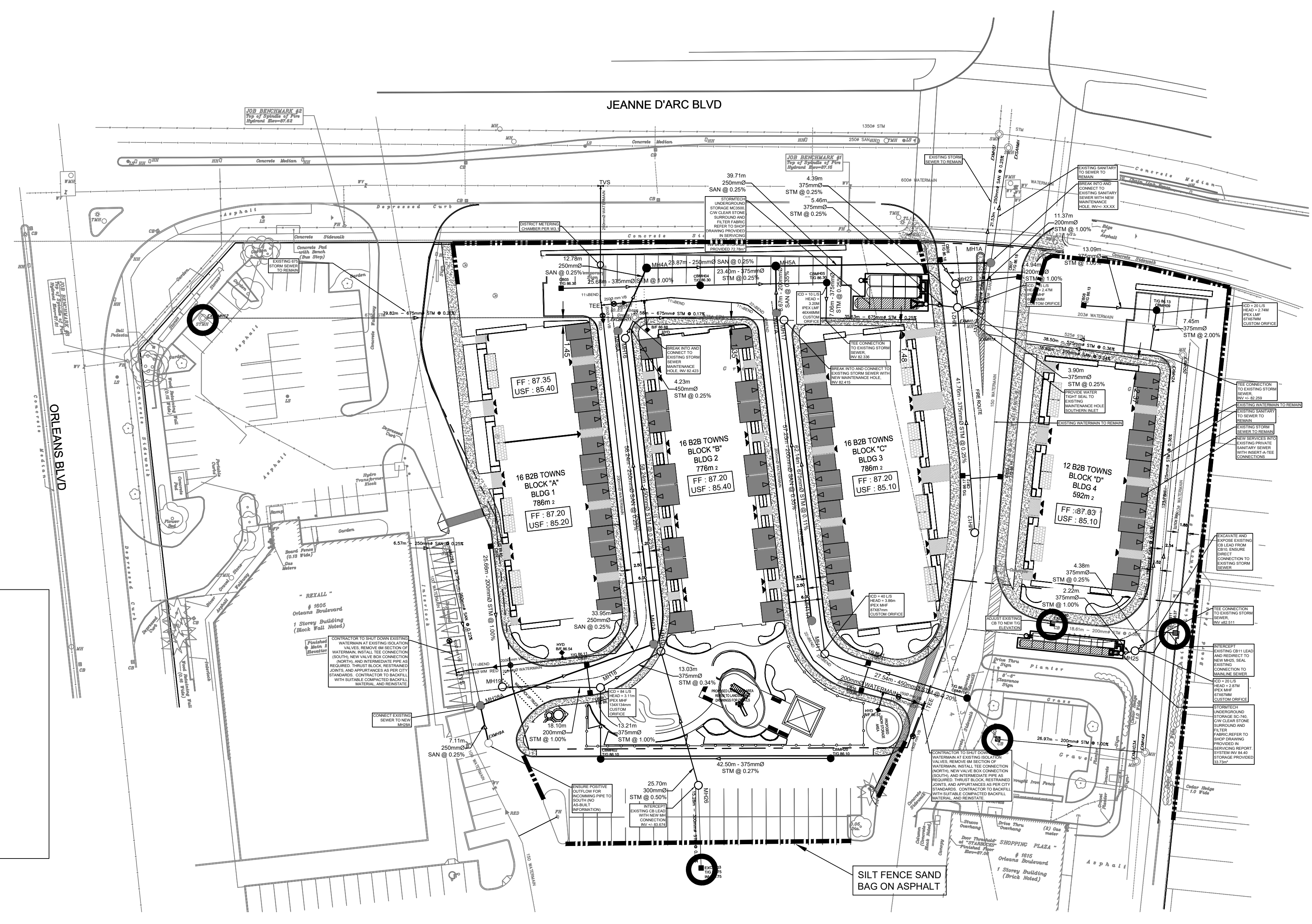
**SEDIMENT-EROSION PLAN**

SHEET NUMBER

**C-900**

ISSUE

**1**



CITY FILE No. D07-XX-XX-XXXX

Scale Check

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