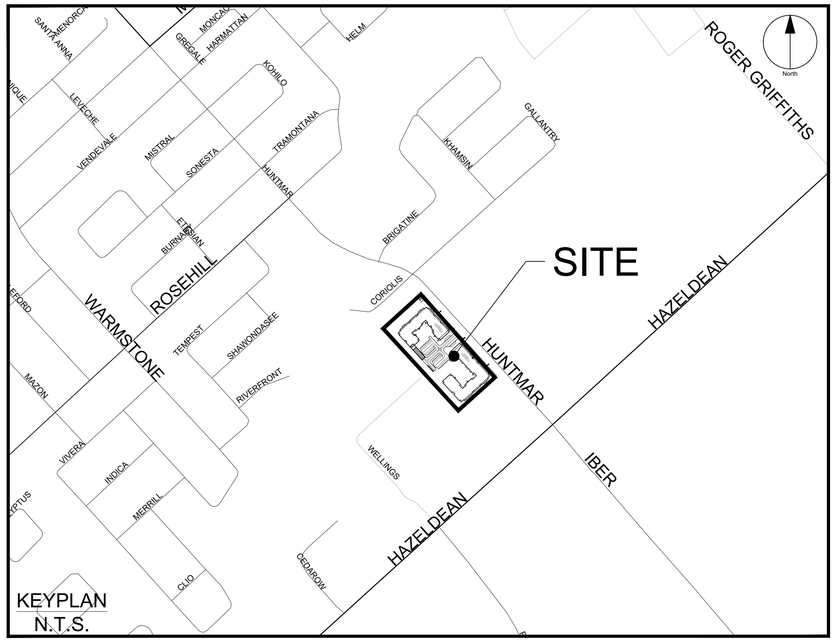
21 HUNTMAR

CITY OF OTTAWA



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Sheet List Table	
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000	COVER
C-001	GENERAL PLAN OF SERVICES
C-010	NOTES-LEGEND-CB DATA TABLE
C-200	GRADING PLAN
C-400	SANITARY DRAINAGE PLAN
C-500	STORM DRAINAGE PLAN
C-900	EROSION AND SEDIMENTATION CONTROL PLAN

NorthAMERICAN®
DEVELOPMENT GROUP
2851 John Street, Suite One, Markham, Ontario L3R 5R7 T: 905-968-3185

CONTRACT NO. 127134

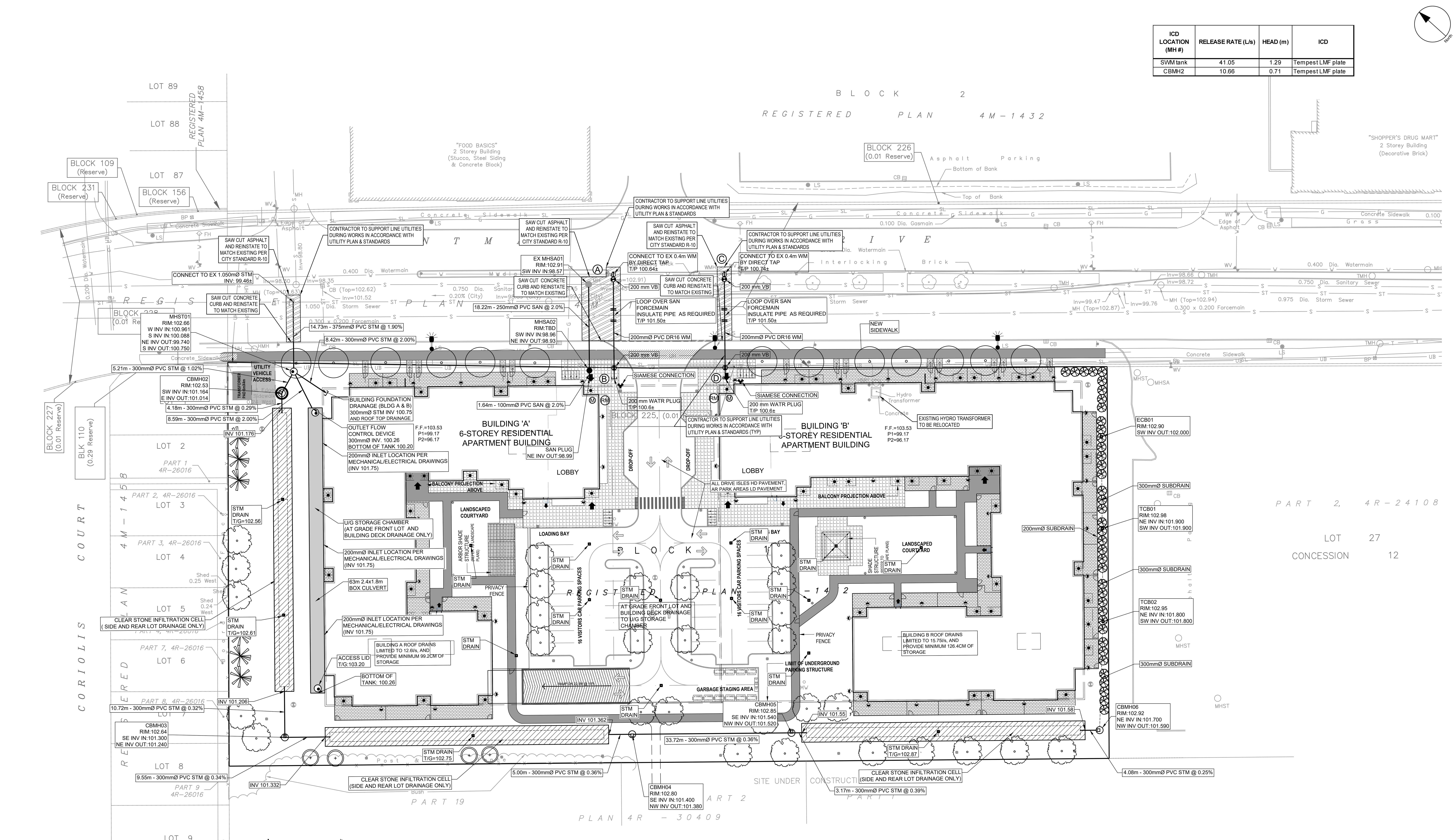
ISSUED FOR SPA 2021-02-16

CITY FILE No. D07-XX-XX-XXXX

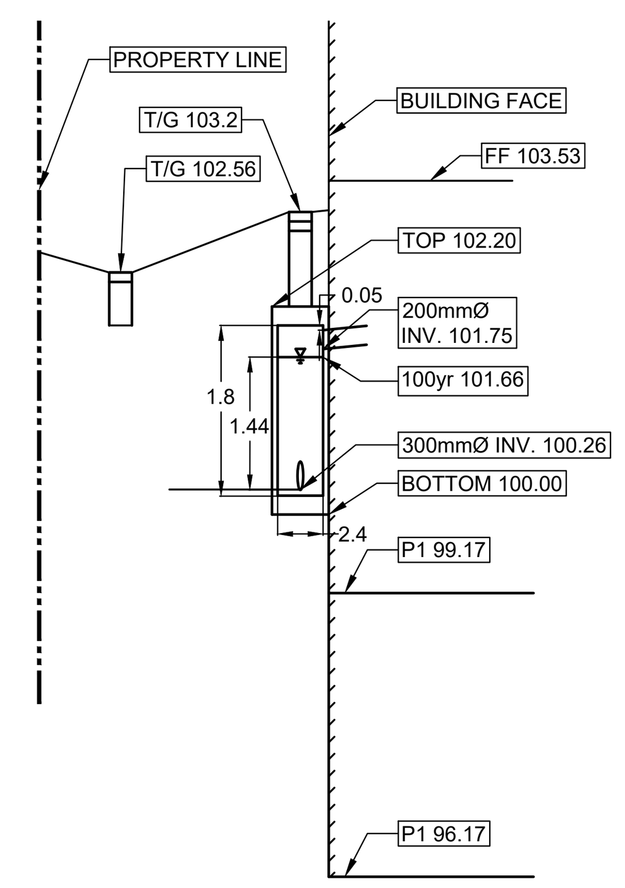
CITY PLAN No. XXXXX

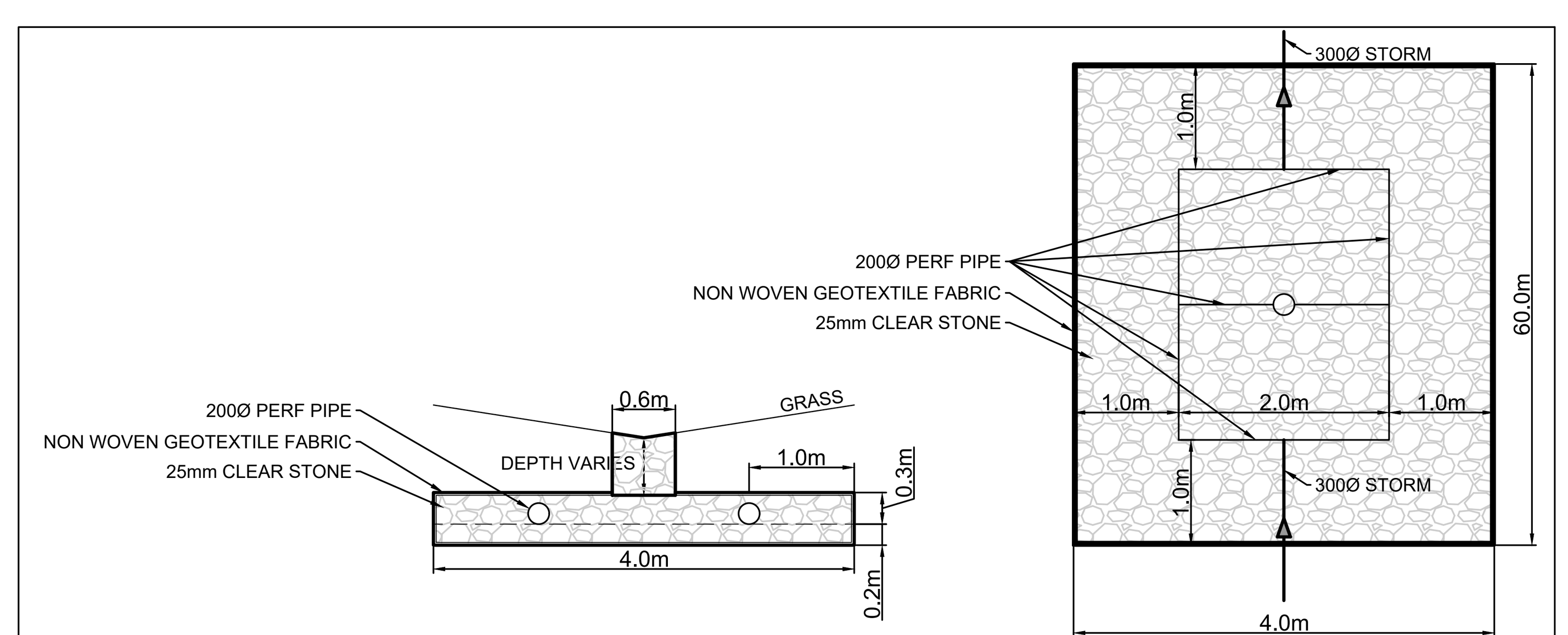
File Location: J:\127134_21_Huntmar\7.0_Production\7.03_Design\04_Civil\Sheets\COVER.dwg Last Saved: February 8, 2021 by ddore Plotted: Wednesday, February 17, 2021 9:28:40 AM by Denis Dore

SCALE CHECK 10mm



ICD LOCATION (MH #)	RELEASE RATE (L/s)	HEAD (m)	ICD
SWM tank	41.05	1.29	Tempest LMF plate
CBMH2	10.66	0.71	Tempest LMF plate





INFILTRATION CELL DETAIL

CLIENT

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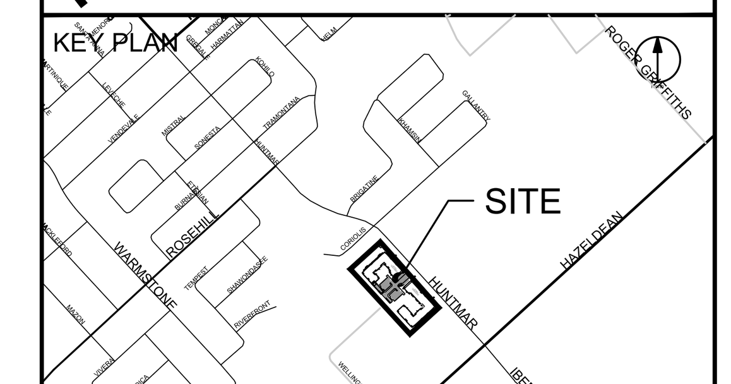
ISSUES

No.	DESCRIPTION	DATE
1	ISSUED FOR SPA	2021-02-16

NOT FOR CONSTRUCTION

SEE C-000 FOR NOTES, LEGEND

KEY PLAN



CONSULTANTS

Project Coordinator:
North American Development Group
Architect:
RLA Architecture
Surveyor:
Fairhall, Moffatt and Woodland ltd.
Geotechnical:
Paterson Group
Traffic:
JD Halpenny & Assoc.
Electrical:
Hammerschlag & Joffe Inc.
Landscape:
NAK Design Strategies

1:400

SEAL

LICENSED PROFESSIONAL ENGINEER
D. G. Yannoulopoulos
2021-02-16
PROVINCE OF ONTARIO

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PROJECT

21 HUNTMAR

PROJECT NO: 127134	
DRAWN BY: EH	CHECKED BY: DGY
PROJECT MGR: DGY	APPROVED BY: DGY

SHEET TITLE

GENERAL PLAN OF SERVICES

SHEET NUMBER C-001

ISSUE 1

CITY FILE No. D07-xx-xx-xxxx

CITY PLAN No. xxxxx

PAVEMENT STRUCTURE **

CAR ONLY PARKING AREAS:

- 50mm WEAR COURSE - HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
- 150mm BASE - OPSS GRANULAR "A" CRUSHED STONE
- 300mm SUBBASE - OPSS GRANULAR "B" TYPE II
- SUBGRADE - EITHER FILL, IN SITU SOIL, OR OPSS GRANULAR "B" TYPE I OR II MATERIAL PLACED OVER IN SITU SOIL OR FILL

ACCESS LANES AND HEAVY TRUCK PARKING AREAS

- 40mm WEAR COURSE - HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
- 50mm BINDER COURSE - HL-8 OR SUPERPAVE 19.0 ASPHALTIC CONCRETE
- 150mm BASE - OPSS GRANULAR "A" CRUSHED STONE
- 400mm SUBBASE - OPSS GRANULAR "B" TYPE II
- SUBGRADE - EITHER FILL, IN SITU SOIL, OR OPSS GRANULAR "B" TYPE I OR II MATERIAL PLACED OVER IN SITU SOIL OR FILL

** REFER TO GEOTECHNICAL REPORT BY PATERSON GROUP.

DRAWING NOTES

1.0 GENERAL

1.1 CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

1.2 DO NOT SCALE DRAWINGS.

1.3 CONTRACTOR TO REPORT ALL DISCOVERIES OF ERRORS, OMISSIONS OR DISCREPANCIES TO THE ARCHITECT OR DESIGN ENGINEER AS APPLICABLE.

1.4 USE ONLY THE LATEST REVISED DRAWINGS OR THOSE THAT ARE MARKED "ISSUED FOR CONSTRUCTION".

1.5 ALL CONSTRUCTION SHALL COMPLY WITH CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.

1.6 THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS AND SPECIFICATIONS.

1.7 FOR LEGAL SURVEY INFORMATION REFER TO REGISTERED PLAN FROM FAIRHALL, MOFFATT AND WOODLAND LTD.

1.8 REFER TO SITE PLAN BY RLA ARCHITECTURE.

1.9 CONTRACTOR TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES AS IDENTIFIED IN THE EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.). DURING ALL PHASES OF THE SITE PREPARATION AND CONSTRUCTION THE MEASURES ARE TO BE MAINTAINED TO THE SATISFACTION OF THE ENGINEER AND CITY OF OTTAWA IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL. SHOULD ANY ADDITIONAL MEASURES BE REQUIRED TO ADDRESS FIELD CONDITIONS THEY SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER OR THE CITY OF OTTAWA. SUCH ADDITIONAL MEASURES MAY INCLUDE BUT NOT BE LIMITED TO INSTALLATION OF SEDIMENT CAPTURE FILTER SOCKS WITHIN MANHOLES AND CATCHBASINS TO PREVENT SEDIMENT FROM ENTERING THE STRUCTURE AND INSTALLATION AND MAINTENANCE OF A LIGHT DUTY SILT FENCE BARRIER AS REQUIRED.

1.10 ALL IRON WORK ELEVATIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO MINOR ADJUSTMENTS AS DETERMINED BY THE ENGINEER.

1.11 ALL CONCRETE CURBS AND SIDEWALKS TO CONFORM TO O.P.S. AND CONSTRUCTED TO CITY STANDARDS. ALL ONSITE CURBS TO BE BARRIER TYPE, WITH DEPRESSIONS AS NOTED.

1.12 ALL CONCRETE SHALL BE "NORMAL PORTLAND CEMENT" IN ACCORDANCE WITH O.P.S.S. 1350 AND SHALL ACHIEVE A MINIMUM STRENGTH OF 30MPa AT 28 DAYS.

1.13 ALL CONSTRUCTION TRAFFIC TO ACCESS SITE FROM HUNTMAR DRIVE.

1.14 FOR GEOTECHNICAL REPORT SEE GEOTECHNICAL INVESTIGATION BY PATERSON GROUP.

1.15 CONTRACTOR TO PROTECT EXISTING INFRASTRUCTURE AND PROPERTY SUCH AS TREES, PARKING METERS, SIDEWALKS, CURBS, ASPHALT, AND STREET SIGNS FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR TO PAY THE COST TO REINSTATE OR REPLACE ANY DAMAGED INFRASTRUCTURE OR PROPERTY TO THE SATISFACTION OF THE CITY.

1.16 THE POSITION OF POLE LINES, CONDUITS, WATERMAIN, SEWERS, AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK THE CONTRACTOR SHALL INFORM ITSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, SHALL PROTECT ALL UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

1.17 CONTRACTOR TO SUPPLY SUITABLE FILL MATERIAL WHERE REQUIRED TO ROUGH GRADE THE SITE. ALL IMPORTED FILL MATERIAL TO BE CERTIFIED AS ACCEPTABLE BY THE GEOTECHNICAL ENGINEER.

1.18 CONTRACTOR TO HAUL EXCESS MATERIAL OFFSITE AS NECESSARY TO GRADE SITE TO MEET THE PROPOSED GRADES. ALL EXCESS MATERIAL TO BE HAULED OFFSITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER ANY HAZARDOUS MATERIAL, CONTRACTOR IS TO NOTIFY ENGINEER. ENGINEER TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.

1.19 FILL MATERIAL WITHIN THE PARKING LOT AND BUILDING PAD AREAS, AND SUPPORTING BUILDING FOUNDATIONS SHALL BE COMPACTED TO 98% STANDARD MODIFIED PROCTOR DENSITY AND TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.

1.20 ALL COMPACTION METHODS TO BE PERFORMED TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER TO INCLUDE BUT NOT BE LIMITED TO THE THICKNESS OF LIFTS, AND COMPACTION EQUIPMENT USED.

1.21 ALL DISTURBED BOULEVARDS TO BE REINSTATED WITH SOD ON 100mm TOPSOIL.

1.22 UTILITY DUCTS TO BE INSTALLED PRIOR TO ROAD BASE CONSTRUCTION.

1.23 CLAY DIKES TO BE INSTALLED WHERE INDICATED ON THE DRAWINGS OR AS APPROVED AND DIRECTED BY THE GEOTECHNICAL ENGINEER ALL IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.

1.24 BACKWATER VALES, PER CITY STANDARDS S14, S14.1 AND S14.2 RE TO BE INSTALLED FOR ALL STORM AND SANITARY SERVICE CONNECTIONS.

2.0 SANITARY

2.1 ALL SANITARY SEWER MAINS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ONLY FACTORY FITTINGS TO BE USED. SEWER TO BE INSTALLED AS PER OSPD 1005.01. SANITARY SEWER MATERIALS TO BE: 250mmØ AND SMALLER - PVC DR 35

2.2 ALL SANITARY MAINTENANCE HOLES TO BE 1.2m DIAMETER AS PER CITY OF OTTAWA STANDARDS COMPLETE WITH BENCHING, RUNGS, FRAME AND COVER, DROP PIPES AND LANDINGS WHERE NEEDED.

2.3 SANITARY MANHOLE COVERS TO BE CITY OF OTTAWA STD. S25 (MOD. OPSD. 401.020). SANITARY MANHOLE COVER TO BE CLOSED COVER TYPE, AS PER CITY STANDARD S24.

2.4 SANITARY SEWER LEAKAGE TEST AND CCTV INSPECTION SHALL BE COMPLETED AS PER CITY SPECIFICATIONS PRIOR TO INSTALLATION OF BASE COURSE ASPHALT.

2.5 ANY SANITARY SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.

2.6 CONNECTION TO THE EXISTING SANITARY SEWER TO BE INCLUDED IN THE COST FOR SANITARY SEWER INSTALLATION. THIS INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARDS.

2.7 ALL SANITARY CONNECTION TO INCLUDE BACKWATER VALVE TYPE 1 PER CITY STANDARD S14.1

3.0 STORM

3.1 ALL STORM SEWERS TO BE CSA CERTIFIED, BELL AND SPIGOT TYPE. ALL STORM SEWERS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. ONLY FACTORY FITTINGS TO BE USED. STORM SEWER MATERIALS TO BE : 375mmØ AND SMALLER - PVC DR 35 - 450mmØ AND LARGER - 100-D REINFORCED CONCRETE. UNLESS NOTED OTHERWISE

3.2 ALL STORM MAINTENANCE HOLES TO BE SIZED IN ACCORDANCE WITH THE PLANS AND AS PER CITY OF OTTAWA STANDARDS COMPLETE WITH BENCHING, RUNGS, AND FRAME AND COVER.

3.3 STORM MH COVERS TO BE OPEN TYPE, AS PER CITY STANDARD S24, FRAMES TO BE PER CITY OF OTTAWA STD. S25. CONTRACTOR TO INSTALL FILTER FABRIC UNDER STORM MH COVER UNTIL SODDING IS COMPLETE.

3.4 STORM MAINTENANCE HOLES TO BE OPSD, SIZE AS SPECIFIED, TAPER TOP.

3.5 ALL CATCH BASINS TO BE AS PER OPSD 705.010, FRAME & FISH TYPE GRATE AS PER CITY OF OTTAWA STD. S19.1.

3.6 ANY STORM SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.

3.7 CONNECTION TO THE EXISTING STORM SEWER TO BE INCLUDED IN THE COST FOR STORM SEWER INSTALLATION. THIS INCLUDES REINSTATEMENT OF ROAD CUT TO CITY STANDARDS.

3.8 CONTRACTOR TO PROVIDE IPEX-TEMPEST MHF ICD'S SHOP DRAWINGS, OR EQUIVALENT, FOR ENGINEERS REVIEW PRIOR TO ORDERING ICD'S.

3.9 ALL STORM CONNECTION TO INCLUDE FOUNDATION BACKWATER VALVE TYPE 1 PER CITY STANDARD S14.1

3.10 LANDSCAPE SUBDRAIN AND APPURTENANCES TO BE INSTALLED PER CITY OF OTTAWA STANDARDS INCLUDING BUT NOT LIMITED TO S29, S30, S31

4.0 WATER

4.1 ALL WATERMAINS 100mmØ OR GREATER TO BE PVC DR 18, LESS THAN 100mm Ø TO BE COPPER OR APPROVED EQUAL WITH MINIMUM COVER OF 2.4m AND INSTALLED PER CITY OF OTTAWA STANDARDS. ALL DOMESTIC WATER SERVICES ARE TO BE 25mmØ.

4.2 THRUST BLOCKS TO BE INSTALLED AT ALL BENDS, TEES, AND CAPS ALL AS PER OPSD 1103.01 AND 1103.02.

4.3 CONTRACTOR TO CONDUCT PRESSURE AND LEAKAGE TESTING OF ALL WATERMAINS AND DISINFECT AND CHLORINATE ALL WATERMAINS TO THE SATISFACTION OF M.O.E. AND THE CITY OF OTTAWA.

4.4 TRACER WIRE TO BE INSTALLED ALONG THE FULL LENGTH OF WATERMAIN AND ATTACHED TO EACH MAIN STOP AS PER CITY OF OTTAWA STANDARDS.

4.5 ALL COMPONENTS OF THE WATER DISTRIBUTION SYSTEM SHALL BE CATHODICALLY PROTECTED AS PER CITY OF OTTAWA STANDARDS.

4.6 ALL VALVES & VALVE BOXES AND CHAMBERS, HYDRANTS, AND HYDRANT VALVES AND ASSEMBLIES SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS.

4.7 ANY WATERMAIN WITH LESS THAN 2.4m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.

4.8 CONTRACTOR IS RESPONSIBLE FOR ACQUIRING THE WATER PERMIT FROM THE CITY OF OTTAWA AND PAYMENT OF ANY FEES ASSOCIATED WITH SECURING THE WATER PERMIT. OWNER IS RESPONSIBLE FOR REIMBURSING THE CONTRACTOR FOR THE ACTUAL COST OF ACQUIRING THE WATER PERMIT.

4.9 CONNECTION TO EXISTING WATERMAIN TO BE INCLUDED IN THE COST FOR THE WATERMAIN INSTALLATION. THIS COST INCLUDES REINSTATEMENT OF ROAD CUTS TO CITY STANDARDS.

4.10 ALL WATERMAIN CROSSINGS TO BE COMPLETED AS PER CITY OF OTTAWA STANDARDS W25 AND W25.2

5.0 PARKING LOT AND WORK IN PUBLIC RIGHTS OF WAY

5.1 CONTRACTOR TO REINSTATE ROAD CUTS PER CITY OF OTTAWA STANDARD R-10.

5.2 THE CONTRACTOR SHALL PREPARE A TRAFFIC MANAGEMENT PLAN FOR REVIEW AND APPROVAL BY THE CITY OF OTTAWA. CONTRACTOR TO MAINTAIN TRAFFIC FLOW DURING THE ENTIRE CONSTRUCTION PERIOD. MAINTENANCE OF ROAD CUTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. PROVISION OF FLAGMEN, DETOURS AS NECESSARY, BARRICADES AND SIGNS TO THE FULL SATISFACTION OF THE ENGINEER AND ROAD AUTHORITY SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

5.3 CONTRACTOR TO PREPARE SUBGRADE, INCLUDING PROOFROLLING, TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER PRIOR TO THE COMMENCEMENT OF PLACEMENT OF GRANULAR B MATERIAL.

5.4 FILL TO BE PLACED AND COMPACTED PER THE GEOTECHNICAL REPORT REQUIREMENTS.

5.5 CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR B MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOETCHNICAL ENGINEER. CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF GRANULAR B MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.

5.6 GRANULAR A MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL ENGINEER OF GRANULAR B PLACEMENT.

5.7 ASPHALT MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL ENGINEER OF GRANULAR A PLACEMENT.

5.8 CONTRACTOR TO SUPPLY, PLACE AND COMPACT ASPHALT MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. CONTRACTOR TO PROVIDE ENGINEER WITH SAMPLES OF ASPHALT MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL ENGINEER THAT THE MATERIAL MEETS THE REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.

5.9 CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LINE AND GRADE IN ACCORDANCE WITH THE PLANS, AND FOR PROVIDING THE ENGINEER WITH VERIFICATION PRIOR TO PLACEMENT.

5.10 PAVEMENT STRUCTURE (MATERIAL TYPES AND THICKNESSES) FOR HEAVY DUTY AND LIGHT DUTY AREAS TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE PLANS.

LEGEND:

Symbol	Description
MHSA3A	SANITARY MANHOLE STORM
MHST01	MANHOLE
CB01	CATCHBASIN
CBMH01	CATCHBASIN MANHOLE
CBMH02	CATCHBASIN MANHOLE C/W ICD
ECB01	REAR YARD "END" CATCHBASIN
	SUBDRAIN
200mmØ SAN	SANITARY SEWER
300mmØ STM	STORM SEWER
VB	VALVE AND VALVE BOX
200Ø WATERMAIN	WATERMAIN
	VERTICAL BEND LOCATION
M	METER
RM	REMOTE METER
2R	NUMBER OF RISERS

FAIRHALL, MOFFATT AND WOODLAND LTD.
TOPOGRAPHIC LEGEND

Symbol	Description
	- SURVEY MONUMENT FOUND
SIB	- STANDARD IRON BAR
SSIB	- SHORT STANDARD IRON BAR
IB	- IRON BAR
CP	- CONCRETE PIN
DIA.	- DIAMETER
BLK	- BLOCK
PIN	- PROPERTY IDENTIFIER NUMBER
CB	- CATCH BASIN
MH	- MANHOLE
MHST	- STORM MANHOLE
MHSA	- SANITARY MANHOLE
WMH	- WATER MANHOLE
TMH	- TRAFFIC MANHOLE
HMH	- HYDRO MANHOLE
FH	- FIRE HYDRANT
TCB	- TRAFFIC CONTROL BOX
WV	- WATER VALVE
TL	- TRAFFIC LIGHT
LS	- LAMP STANDARD
UP	- UTILITY POLE
BP	- BELL PEDESTAL
MW	- MONITORING WELL
	- BOREHOLE
	- BOLLARD
	- GUY WIRE AND ANCHOR
	- SIGN
	- DECIDUOUS TREE
	- CURB
G	- GASMAIN
S	- SANITARY SEWER
ST	- STORM SEWER
W	- WATERMAIN
UB	- UNDERGROUND BELL
UH	- UNDERGROUND HYDRO
SL	- STREET LIGHTING
C	- ROGERS CABLE
V	- TRAFFIC
	- EDGE OF TREES

STORM STRUCTURE TABLE

NAME	RIM ELEV.	INVERT IN	INVERT IN ASBUILT	INVERT OUT	INVERT OUT ASBUILT	DESCRIPTION
MHST01	102.66	W100.961		99.974		1200ø OPSD 701.010
		W100.540				
		SW 100.088				
CBMH02	102.53	101.164		101.014		1200ø OPSD 701.010
CBMH03	102.64	101.300		101.240		1200ø OPSD 701.010
CBMH04	102.80	101.400		101.380		1200ø OPSD 701.010
CBMH05	102.85	101.540		101.520		1200ø OPSD 701.010
CBMH06	102.92	101.700		101.590		1200ø OPSD 701.010

WATERMAIN SCHEDULE

	STATION	DESCRIPTION	FINISHED GRADE	TOP OF WATERMAIN	ASBUILT WATERMAIN
A	0+000.00	TEE 400mmX200mm	102.91	100.51	
	0+001.10	VB 200mm	102.90	100.50	
	0+007.32	V-BEND 200mm	102.84	100.44	
	0+007.62	V-BEND 200mm	102.83	101.50	
	0+009.71	V-BEND 200mm	102.81	101.50	
	0+010.01	V-BEND 200mm	102.81	100.41	
	0+019.83	VB 200mm	103.04	100.64	
B	0+022.17	CAP 200mm	103.05	100.65	
C	0+000.00	TEE 400mmX200mm	103.08	100.68	
	0+001.10	VB 200mm	103.13	100.73	
	0+007.32	V-BEND 200mm	103.09	100.69	
	0+007.62	V-BEND 200mm	103.07	101.50	
	0+009.71	V-BEND 200mm	102.96	101.50	
	0+010.01	V-BEND 200mm	102.96	100.56	
	0+019.83	VB 200mm	103.13	100.73	
D	0+022.17	CAP 200mm	103.01	100.61	

CLIENT

NorthAMERICAN DEVELOPMENT GROUP

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ISSUES

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1	ISSUED FOR SPA	2021-02-16

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SEE C010 FOR NOTES, LEGEND

KEY PLAN

CONSULTANTS

Project Coordinator:
North American Development Group
Architect:
RLA Architecture
Surveyor:
Fairhall, Moffatt and Woodland ltd.
Geotechnical:
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PROJECT

21 HUNTMAR

PROJECT NO: 127134	
DRAWN BY: EH	CHECKED BY: DGY
PROJECT MGR: DGY	APPROVED BY: DGY

SHEET TITLE

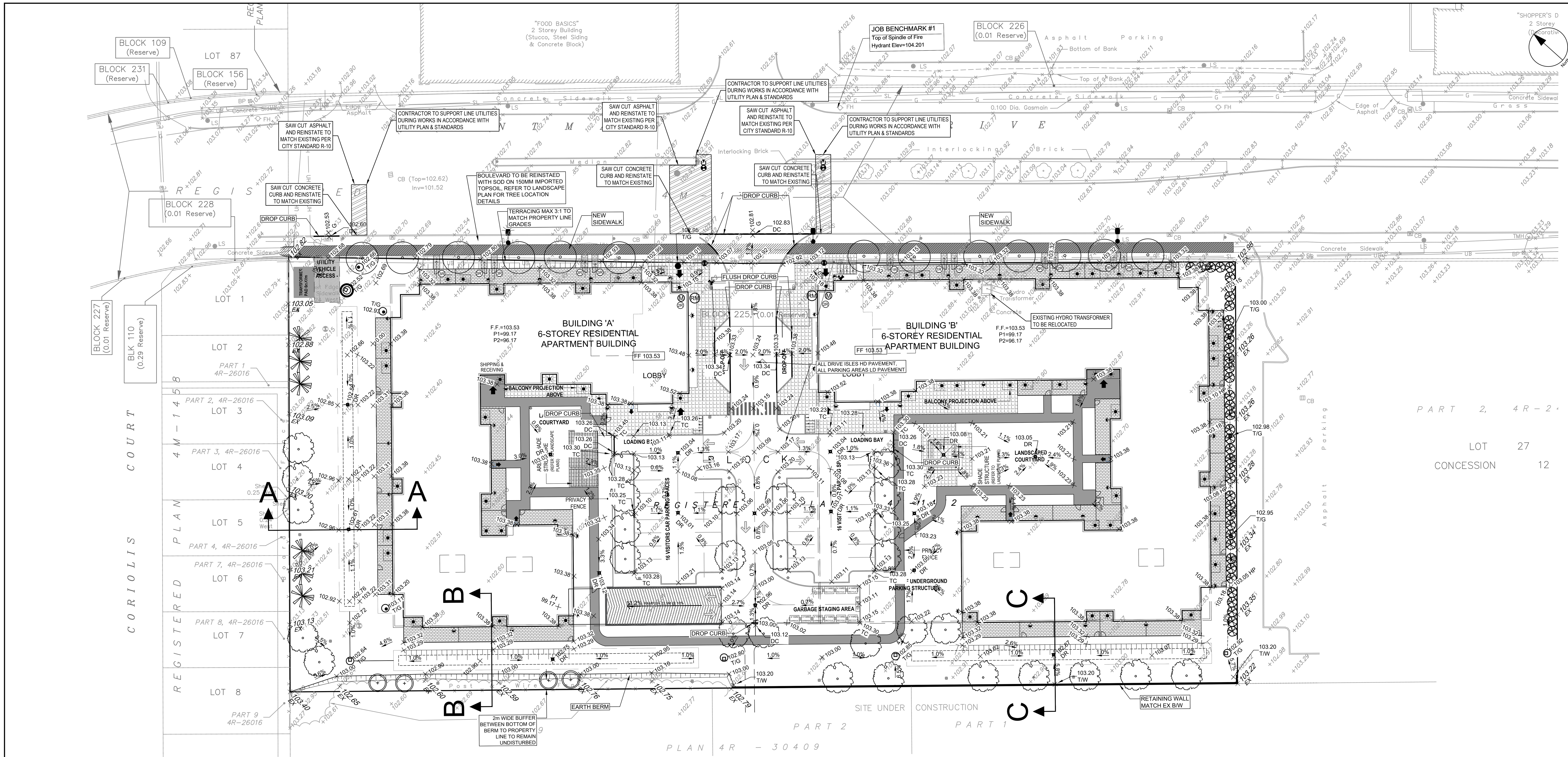
GENERAL NOTES, LEGEND AND TABLES

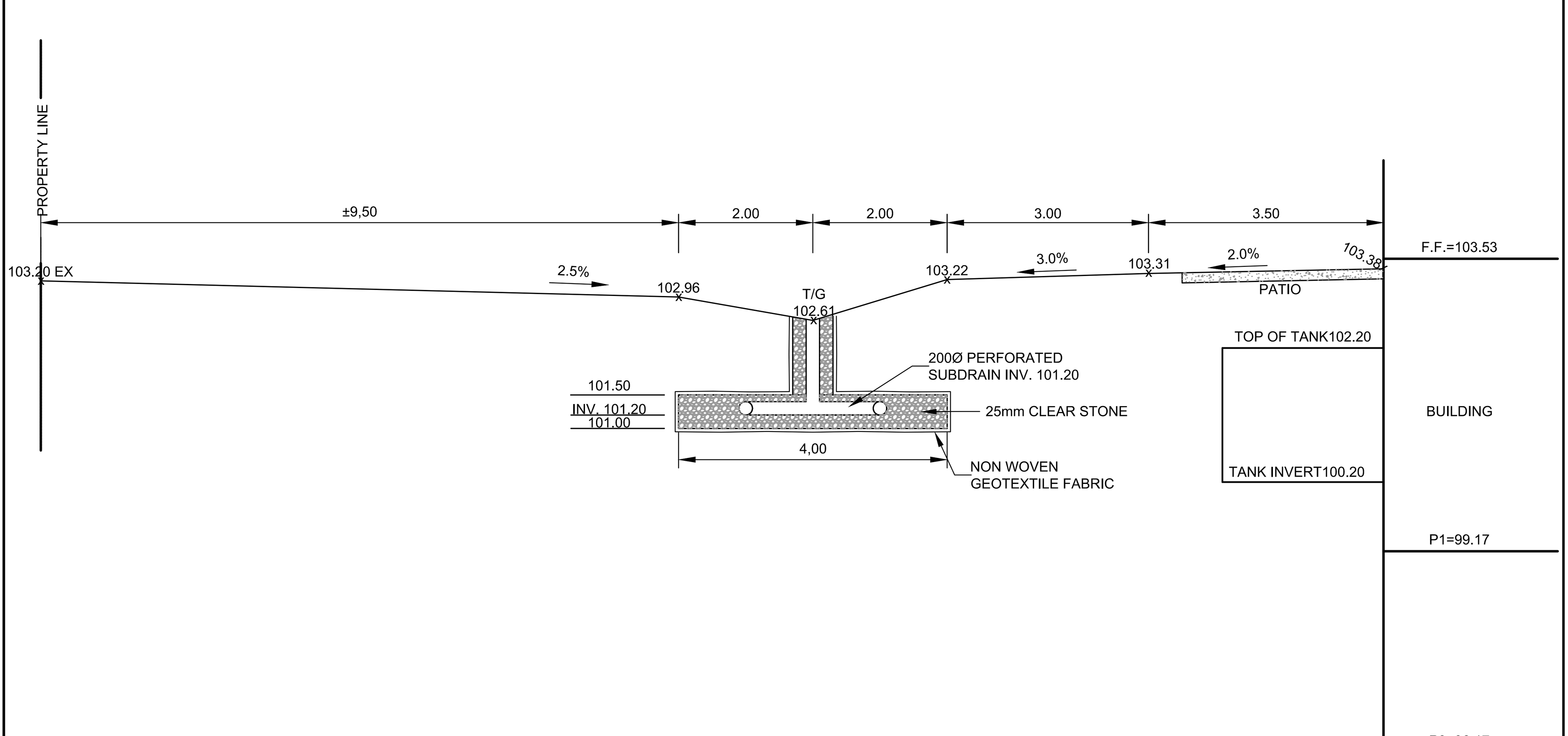
SHEET NUMBER: C-010 ISSUE: 1

CITY FILE No. D07-xx-xx-xxxx

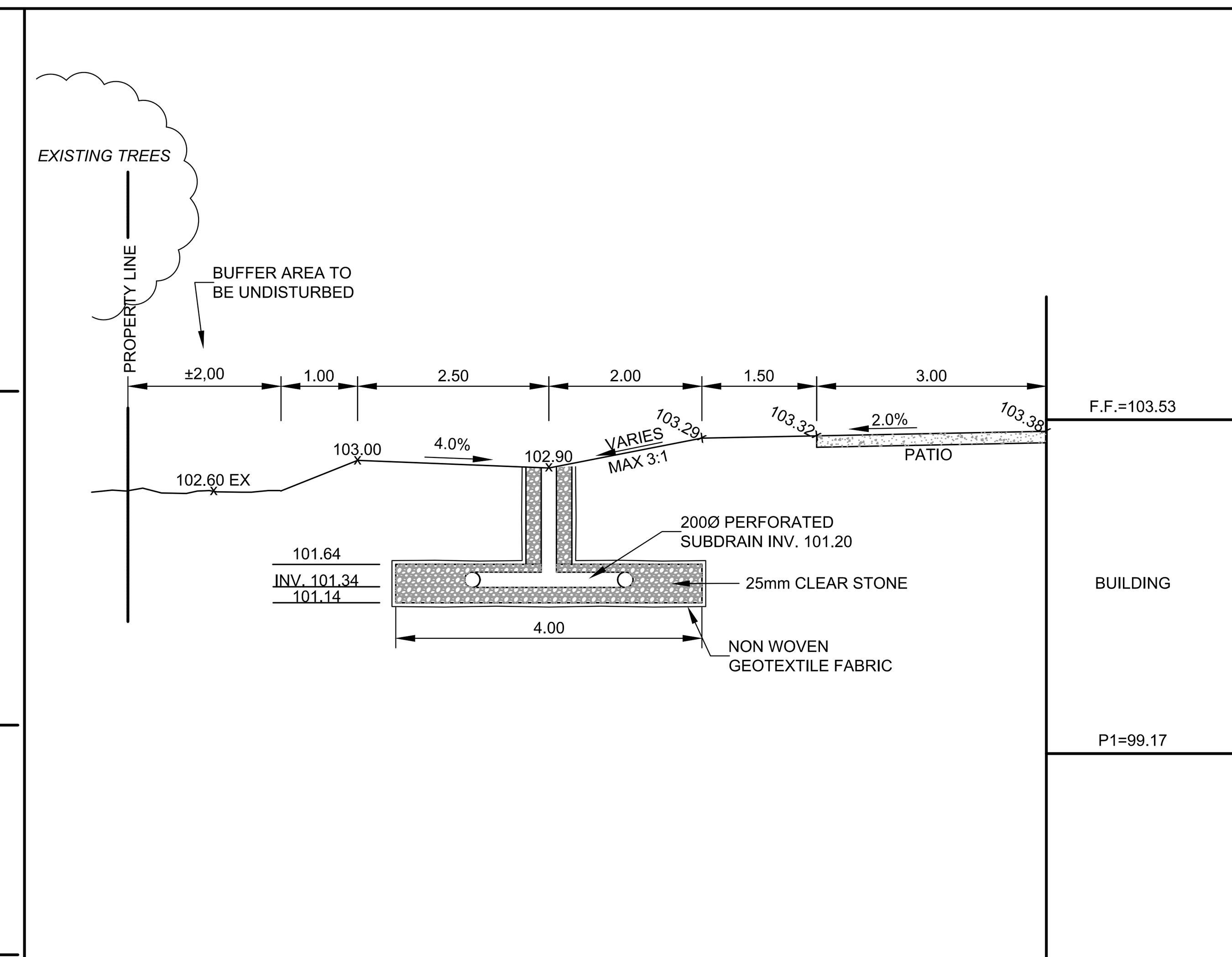
CITY PLAN No. xxxxx

Plotted: Wednesday, February 17, 2021 9:29:41 AM by Denis Dore

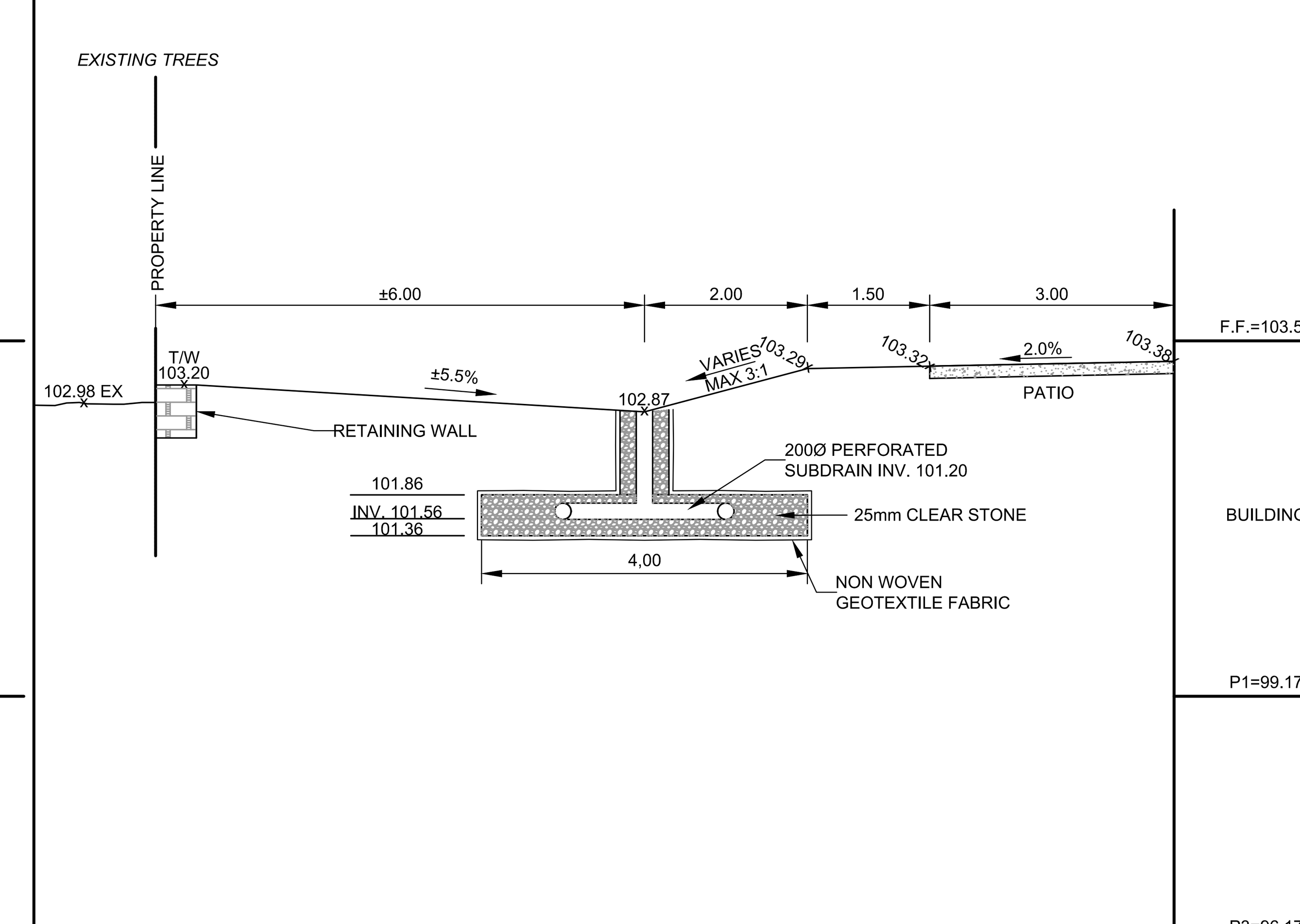




SECTION A-A
N.T.S.



SECTION B-B
N.T.S.



SECTION C-C
N.T.S.

CLIENT

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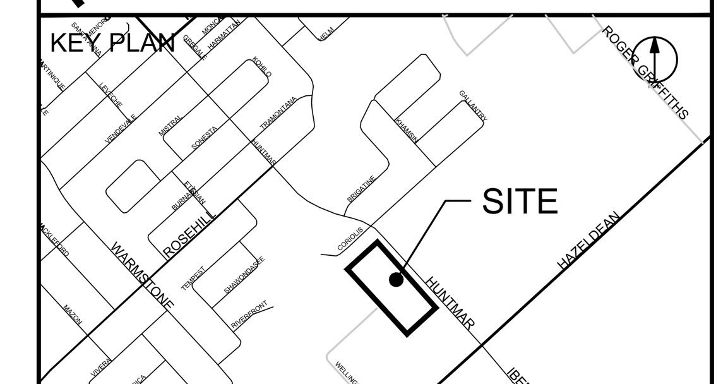

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1:400 0 4 12 20m

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PROJECT
21 HUNTMAR

PROJECT NO: 127134	
DRAWN BY: EH	CHECKED BY: DGY
PROJECT MGR: DGY	APPROVED BY: DGY

SHEET TITLE
GRADING PLAN

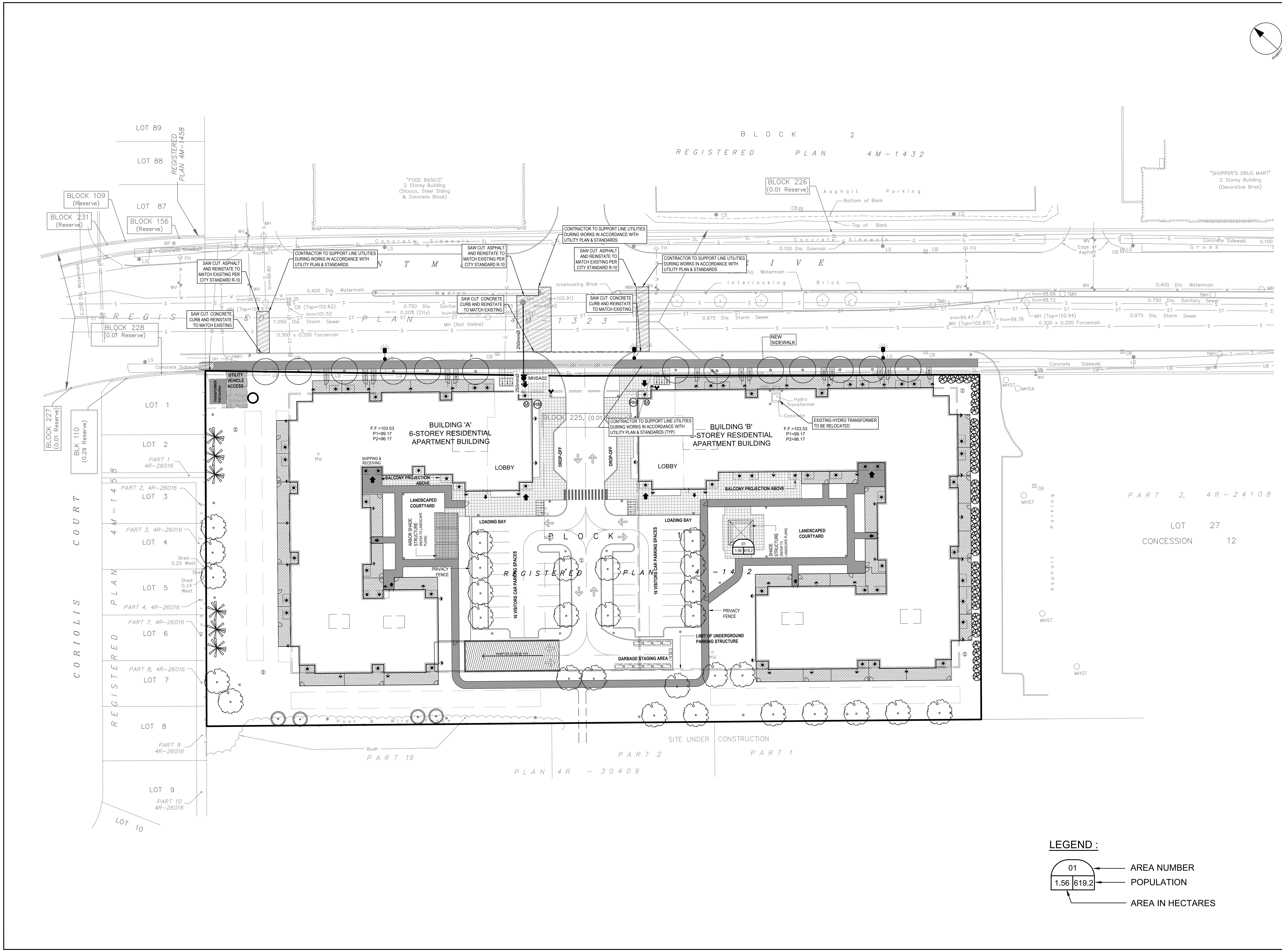
SHEET NUMBER	ISSUE
C-200	1

CITY PLAN No. xxxxx

SCALE CHECK 1 in 10mm

CITY FILE No. D07-xx-xx-xxxx

File Location: J:\127134_21_Huntma\7.0_Production\7.03_Design\04_Civil\Sheets\C-200 GRADING PLAN.dwg Last Saved: February 8, 2021, by ddore Plotted: Wednesday, February 17, 2021 9:30:01 AM by Denis Dore



CLIENT

NorthAMERICAN DEVELOPMENT GROUP

2851 John Street, Suite One, Markham, Ontario L3R 5R7 T:905-968-3185

ISSUES

No.	DESCRIPTION	DATE
1	ISSUED FOR SPA	2021-02-16

NOT FOR CONSTRUCTION

SEE C-010 FOR NOTES, LEGEND

KEY PLAN

SITE

CONSULTANTS

Project Coordinator:
North American Development Group
Architect:
RLA Architecture
Surveyor:
Fairhall, Moffatt and Woodland ltd.
Geotechnical:
Paterson Group
Traffic:
JD Halpenny & Assoc.
Electrical:
Hammerschlag & Joffe Inc.
Landscape:
NAK Design Strategies

1:400 0 4 12 20m

SEAL

LICENSED PROFESSIONAL ENGINEER D. G. Yannoulopoulos 2021-02-16 PROVINCE OF ONTARIO

IBI GROUP
Suite 400 – 333 Preston Street
Ottawa ON K1S 5N4 Canada
tel 613 225 1311 / 613 241 3300 fax 613 225 9868
ibigroup.com

PROJECT
21 HUNTMAR

PROJECT NO:
127134

DRAWN BY:	CHECKED BY:
EH	DGY
PROJECT MGR: DGY	APPROVED BY: DGY

SHEET TITLE
SANITARY DRAINAGE PLAN

SHEET NUMBER	ISSUE
C-400	1

CITY PLAN No. xxxxx

CITY FILE No. D07-XX-XX-XXXX

SCALE CHECK 1 in 10mm

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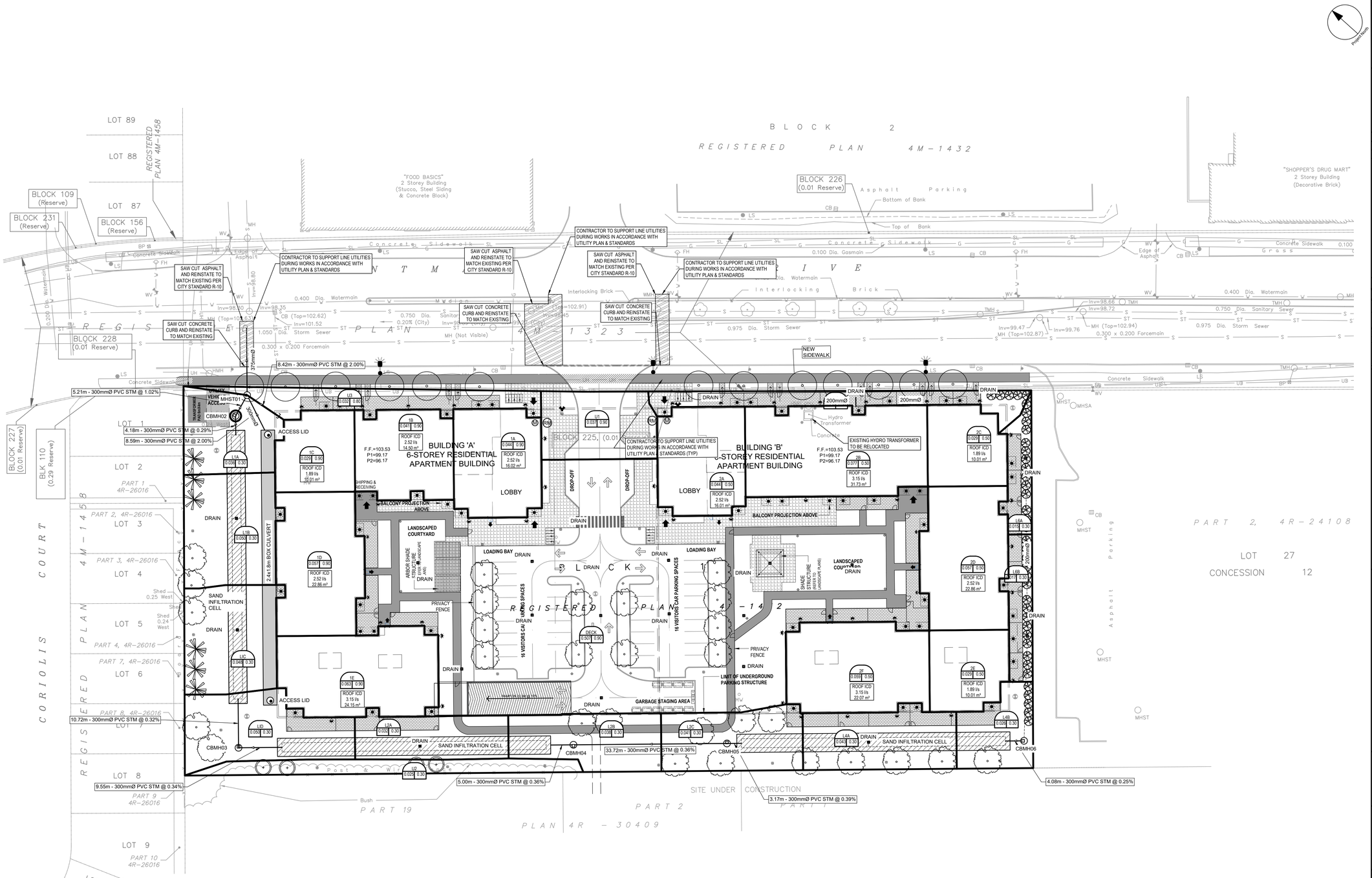
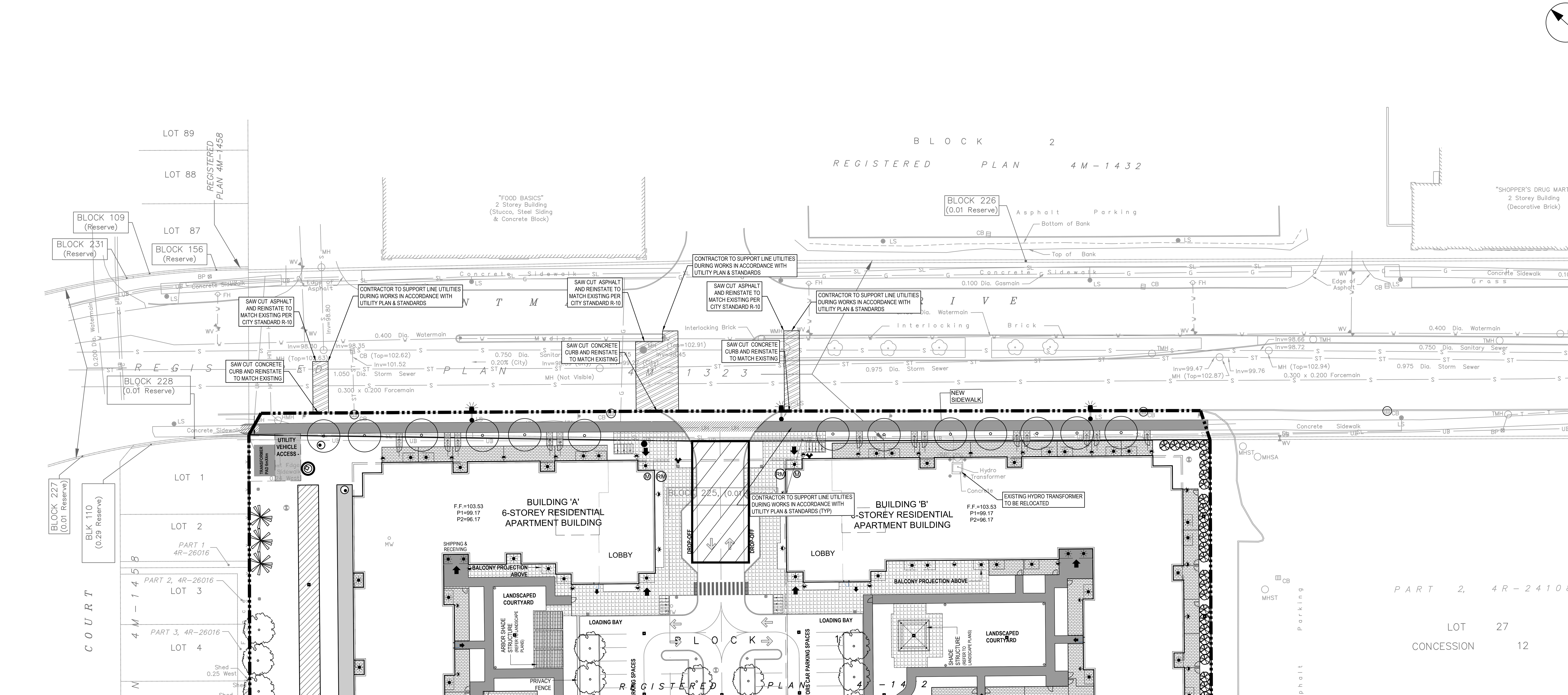

LOT 89
LOT 88
LOT 87
REGISTERED PLAN 4M-1458
BLOCK 109 (Reserve)
BLOCK 231 (Reserve)
BLOCK 156 (Reserve)
BLOCK 228 (0.01 Reserve)
BLOCK 227 (0.01 Reserve)
BLK 110 (0.29 Reserve)
BLOCK 226 (0.01 Reserve)
BLOCK 225, (0.01 Reserve)
"FOOD BASICS" 2 Storey Building (Stucco, Steel Siding & Concrete Block)
"SHOPPER'S DRUG MART" 2 Storey Building (Decorative Brick)
BLOCK 2
REGISTERED PLAN 4M-1432
REGISTERED PLAN 4M-1323
CONTRACTOR TO SUPPORT LINE UTILITIES DURING WORKS IN ACCORDANCE WITH UTILITY PLAN & STANDARDS
SAW CUT ASPHALT AND REINSTATE TO MATCH EXISTING PER CITY STANDARD R-10
SAW CUT CONCRETE CURB AND REINSTATE TO MATCH EXISTING
NEW SIDEWALK
5.21m - 300mmØ PVC STM @ 1.02%
8.42m - 300mmØ PVC STM @ 2.00%
4.18m - 300mmØ PVC STM @ 0.29%
8.59m - 300mmØ PVC STM @ 2.00%
10.72m - 300mmØ PVC STM @ 0.32%
9.55m - 300mmØ PVC STM @ 0.34%
5.00m - 300mmØ PVC STM @ 0.36%
33.72m - 300mmØ PVC STM @ 0.36%
3.17m - 300mmØ PVC STM @ 0.39%
4.08m - 300mmØ PVC STM @ 0.25%
BUILDING 'A' 6-STOREY RESIDENTIAL APARTMENT BUILDING
BUILDING 'B' 6-STOREY RESIDENTIAL APARTMENT BUILDING
F.F.=103.53 P1=99.17 P2=96.17
LOBBY
LOADING BAY
BALCONY PROJECTION ABOVE
LANDSCAPED COURTYARD
ARBOR SHADE STRUCTURE (REFER TO LANDSCAPE PLANS)
PRIVACY FENCE
16 VISITORS CAR PARKING SPACES
DROP-OFF
SHIPPING & RECEIVING
GARBAGE STAGING AREA
LIMIT OF UNDERGROUND PARKING STRUCTURE
EXISTING HYDRO TRANSFORMER TO BE RELOCATED
Hydro Transformer
ROOF ICD 2.52 l/s 14.50 m²
ROOF ICD 2.52 l/s 16.02 m²
ROOF ICD 1.89 l/s 10.01 m²
ROOF ICD 2.52 l/s 22.86 m²
ROOF ICD 3.15 l/s 31.73 m²
ROOF ICD 3.15 l/s 22.07 m²
SAND INFILTRATION CELL
ACCESS LID
DRAIN
CBMH02
CBMH03
CBMH04
CBMH05
CBMH06
MHST01
2.4x1.8m BOX CULVERT
CORIOLIS COURT
REGISTERED PLAN 4M-1459
PART 1 4R-26016
PART 2, 4R-26016
PART 3, 4R-26016
PART 4, 4R-26016
PART 7, 4R-26016
PART 8, 4R-26016
PART 9 4R-26016
PART 10 4R-26016
PART 19
PART 2 PLAN 4R-30409
PART 2, 4R-24108
LOT 1
LOT 2
LOT 3
LOT 4
LOT 5
LOT 6
LOT 7
LOT 8
LOT 9
LOT 10
LOT 27
CONCESSION 12
SITE UNDER CONSTRUCTION
Asphalt Parking
Interlocking Brick
Concrete Sidewalk
Grass
Bush
Post & Wire Fence
Shed 0.25 West
Shed 0.24 West
0.400 Dia. Watermain
0.750 Dia. Sanitary Sewer
0.975 Dia. Storm Sewer
0.300 x 0.200 Forcemain
0.200 Dia. Watermain
0.100 Dia. Gasmain
MH (Not Visible)
MH (Top=102.94)
MH (Top=102.87)
MH (Top=102.62)
MH (Top=102.91)
Inv=98.80
Inv=98.35
Inv=101.52
Inv=98.66
Inv=98.72
Inv=99.47
Inv=99.76
Inv=98.45
Inv=98.30
Inv=98.36
Inv=98.80
Inv=98.85
Inv=98.90
Inv=98.95
Inv=98.99
Inv=99.04
Inv=99.09
Inv=99.14
Inv=99.19
Inv=99.24
Inv=99.29
Inv=99.34
Inv=99.39
Inv=99.44
Inv=99.49
Inv=99.54
Inv=99.59
Inv=99.64
Inv=99.69
Inv=99.74
Inv=99.79
Inv=99.84
Inv=99.89
Inv=99.94
Inv=99.99
Inv=100.04
Inv=100.09
Inv=100.14
Inv=100.19
Inv=100.24
Inv=100.29
Inv=100.34
Inv=100.39
Inv=100.44
Inv=100.49
Inv=100.54
Inv=100.59
Inv=100.64
Inv=100.69
Inv=100.74
Inv=100.79
Inv=100.84
Inv=100.89
Inv=100.94



NOTES:

1. SILT FENCE TO BE ERECTED PRIOR TO EARTH WORKS BEING COMMENCED. SILT FENCE TO BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED OR UNTIL START OF SUBSEQUENT PHASE.
2. STRAW BALE SEDIMENT TRAPS TO BE CONSTRUCTED IN EXISTING ROAD SIDE DITCHES. TRAPS TO REMAIN AND BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED.
3. SILT SACK TO BE PLACED AND MAINTAINED UNDER COVER OF ALL CATCHBASINS. GEOTEXTILE SILT SACK IN STREET CBs 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.
4. 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.
5. CONTRACTOR TO PROTECT EXISTING CATCHBASINS WITH FILTER CLOTH UNDER THE COVERS TO TRAP SEDIMENTATION. REFER TO IDENTIFIED STRUCTURES.

LIGHT DUTY SILT FENCE AS PER OPSD-219.110

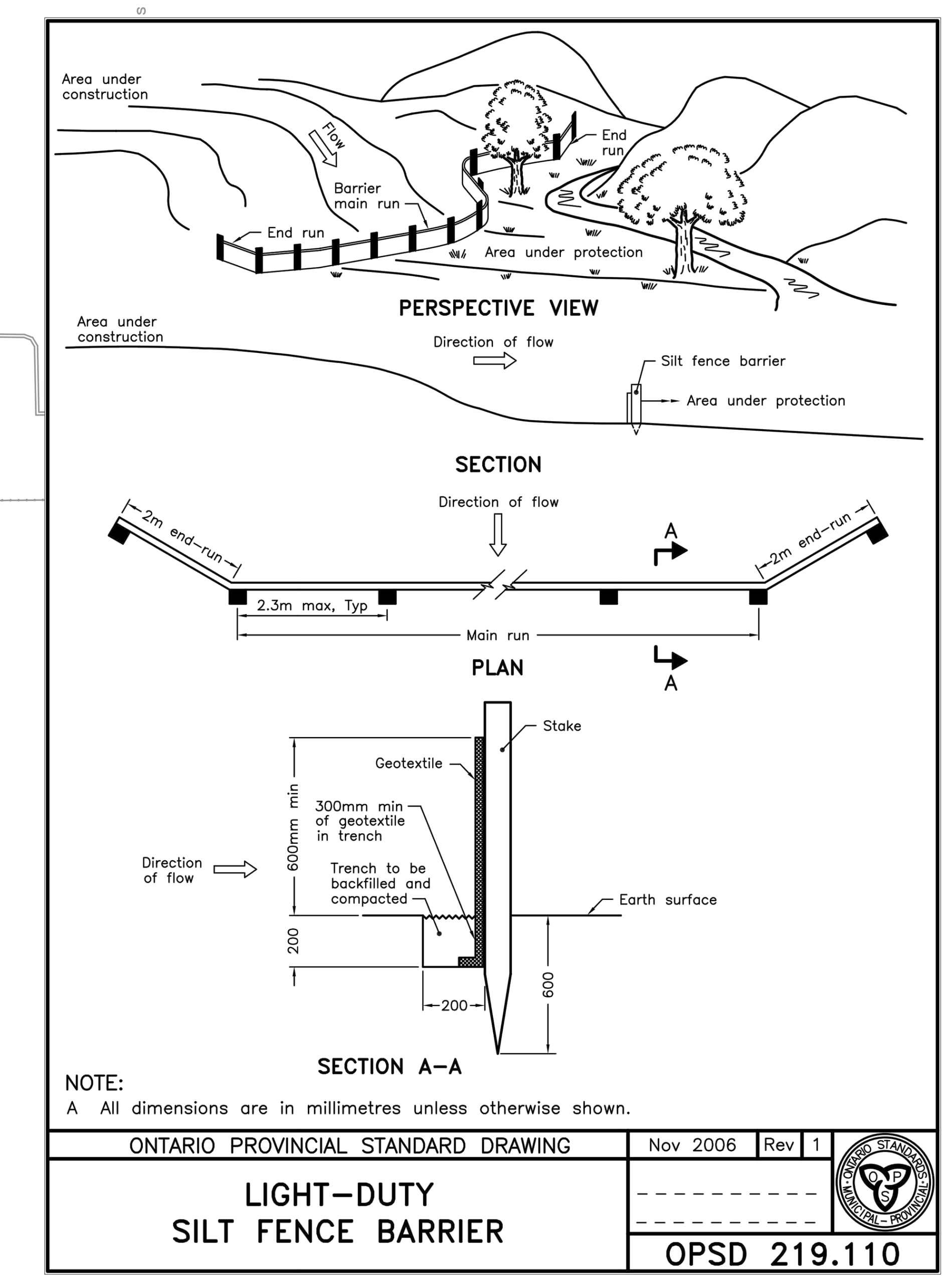
SNOW FENCE

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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JD Halpenny & Assoc.
Electrical:
Hammerschlag & Joffe Inc.
Landscape:
NAK Design Strategies

1:400

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LICENSED PROFESSIONAL ENGINEER
D. G. Yannoulopoulos
2021-02-16
PROVINCE OF ONTARIO

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Ottawa ON K1S 5N4 Canada
tel 613 225 1311 / 613 241 3300 fax 613 225 9868
ibigroup.com

PROJECT

21 HUNTMAR

PROJECT NO: 127134	
DRAWN BY: **EH**	CHECKED BY: **DGY**
PROJECT MGR: **DGY**	APPROVED BY: **DGY**

SHEET TITLE

EROSION AND SEDIMENTATION CONTROL PLAN

SHEET NUMBER C-900

ISSUE 1

CITY PLAN No. xxxxx

SCALE CHECK 1 in 10mm

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