CITY OF NIAGARA FALLS



KEY PLAN N.T.S.

PANORAMIC PROPERTIES INC.

6259 & 6293 DORCHESTER ROAD PROPOSED 5 STOREY APARTMENT BUILDING

2nd SUBMISSION: NOVEMBER 18, 2022 AJC PROJECT # 201239

LIST OF DRAWINGS

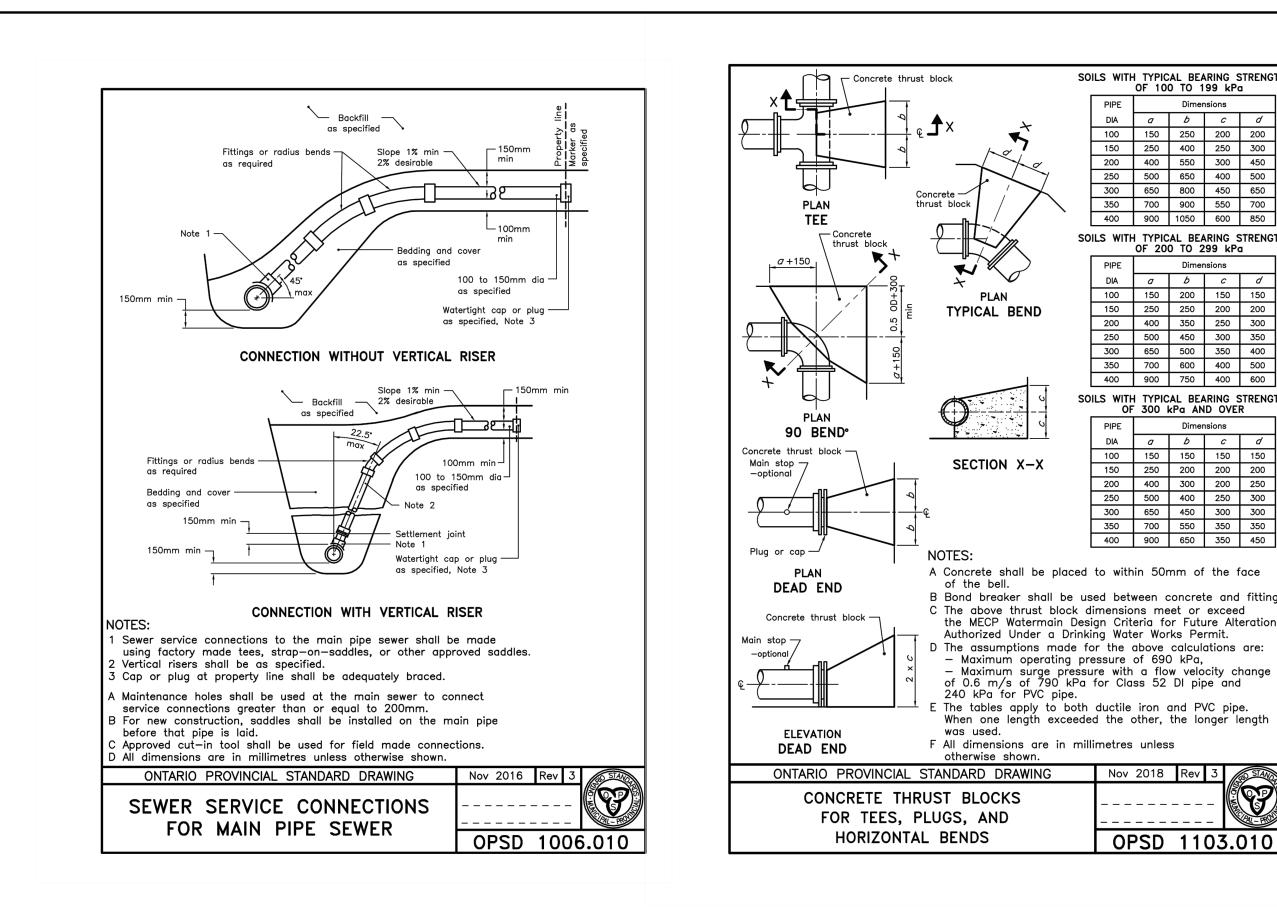
GENERAL

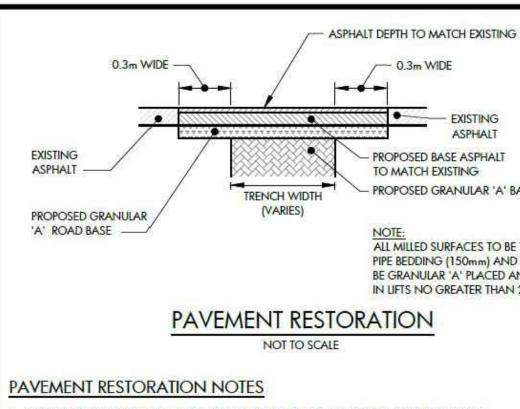
- DETAIL SHEET
- ERVICING PLAN
- GRADING PLAN
- **EROSION & SEDIMENT CONTROL PLAN** 3
- STORM DRAINAGE AREA PLAN





SURVEYORS • PLANNERS • ENGINEERS 25 MAIN STREET WEST, SUITE 300 HAMILTON, ONTARIO L8P 1H1 Tel: (905) 528-8761 Fax: (905) 528-2289 email: ajc@ajclarke.com





- 1. CONTRACTOR TO OBTAIN ALL NECESSARY ROAD CUT PERMITS PRIOR TO CONSTRUCTION. 2. CONTRACTOR TO MAINTAIN A MINIMUM OF ONE LANE OF TRAFFIC AT ALL TIMES. IF THIS IS NOT FEASIBLE, THE CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE CITY FOR ROAD CLOSURES. THESE ARRANGEMENTS SHALL BE MADE FAR IN ADVANCE OF START OF CONSTRUCTION.
- 3. ALL ASPHALT AND CONCRETE CUTS SHALL BE CLEAN, FULL DEPTH SAWCUTS ONLY. TRENCH BEDDING, COVER MATERIAL, BACKFILL, PAVEMENT AND CONCRETE RESTORATION SHALL BE AS PER DETAIL ABOVE.
- TO 100% SPD. ALL DISTURBED BOULEVARDS, CURBS, SUBDRAINS, SIDEWALKS, ETC. SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION. BOULEVARD TO BE RESTORED TO MATCH EXISTING OR WITH SOD ON MINIMUM 100mm TOPSOIL.
- 6. CONTRACTOR SHALL LOCATE AND PROTECT ALL UTILITIES.
- 7. ALL RESTORATION WORK SHALL BE TO THE SATISFACTION OF THE CITY OF NIAGARA FALLS.

PAVEMENT RESTORATION DETAIL AND NOTES NOT TO SCALE

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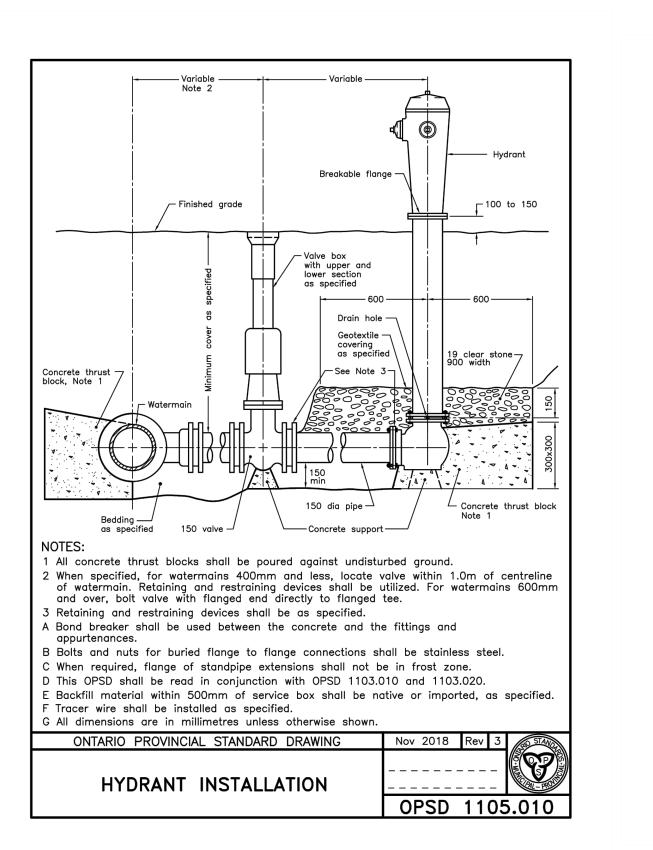
4. ALL BEDDING AND BACKFILL FOR TRENCHES WITHIN EXISTING ROAD SHALL BE GRANULAR 'A' MATERIAL COMPACTED

NOTE: ALL MILLED SURFACES TO BE TACK COATED. PIPE BEDDING (150mm) AND COVER SHALL BE GRANULAR 'A' PLACED AND COMPACTED IN LIFTS NO GREATER THAN 200mm.

PROPOSED BASE ASPHALT TO MATCH EXISTING - PROPOSED GRANULAR 'A' BACKFILL

- EXISTING ASPHAL

- 0.3m WIDE



Ň
Concrete —
anchor block
50x13
Stainless ste
strap
130x85x20
Stainless steel angle 80 long
85
*
0.5
lai 20
Stainless steel —/ rod and nuts
NATES
NOTES:
A Concrete shall be
50mm of the fac
B Bond breaker sha concrete and fitti
C This blocking is f
up—thrust and 90
D This OPSD shall b
with OPSD 1103.0
E All stainless steel
ONTARIO PR
CONCRE
FOR

surface

NOTES:

bends set in place

itainless steel strap

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Nov 2018 Rev 3

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OPSD 1103.010

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SOILS WITH TYPICAL BEARING STRENGT

PIPE

OF 100 TO 199 kPa

DIA a b c d

Dimensions

	200	600	900	1500	13	450	
	250	900	900	1500	20	600	
	300	1200	900	1650	20	800	
	350	1200	1200	1650	25	1000	
	400	1300	1300	1750	30	1000	
	SOILS			BEARIN O 299		ENGTH	
	PIPE			Note 1			
	DIA	a	Ь	С	d	е	
	100	450	600	750	13	150	
	150	600	900	900	13	300	
	200	600	900	1500	13	450	
	250	900	900	1500	20	600	
	300	1200	900	1650	20	800	
	350	1200	1200	1650	25	1000	
	400	1300	1300	1750	30	1000	
	SOILS			BEARIN AND (ENGTH	
	PIPE			Note 1			
	DIA	a	Ь	C	d	е	
	100	450	600	750	13	150	
	150	600	900	900	13	300	
	200	600	900	1500	13	450	
	250	900	900	1500	20	600	
	300	1200	900	1650	20	800	
	350	1200	1200	1650	25	1000	
NOTES:	400	1000	1300	1750	30	1000	
 The dimensions are as A The above thrust block for Future Alterations // B The assumptions made Maximum operating Maximum surge pre- for Class 52 DI pipe of C The tables apply to bo length exceeded the of D This OPSD shall be red E All dimensions are in red 	dimens for the pressure ssure wit and 240 th ductil ther, the ad in co	ions m d Unde above of 69 th a fle kPa fo le iron longer njunctio	eet or calcul 0 kPa, ow velc or PVC and P' length on with	exceed inking ations ocity ch pipe. VC pipe was n OPSD	the M Water M are as ange c e. Wher used. 1103.0	Works F follows of 0.6 n one	Permit. s:

Nov 2018 Rev 1

OPSD 1103.021

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SOILS WITH TYPICAL BEARING STRENGTH

 100
 450
 600
 750
 13
 150

 150
 600
 900
 900
 13
 300

PIPE

DIA

ONTARIO PROVINCIAL STANDARD DRAWING

DIMENSION TABLES FOR

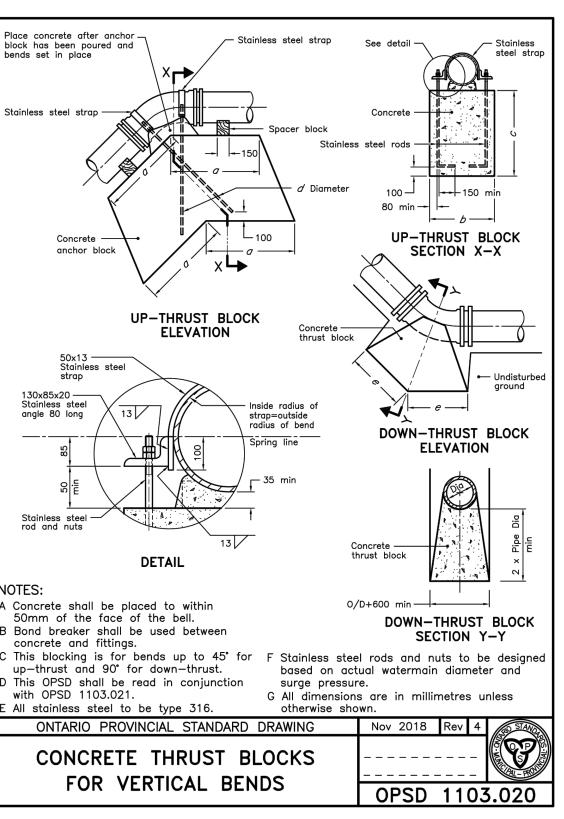
CONCRETE THRUST BLOCKS

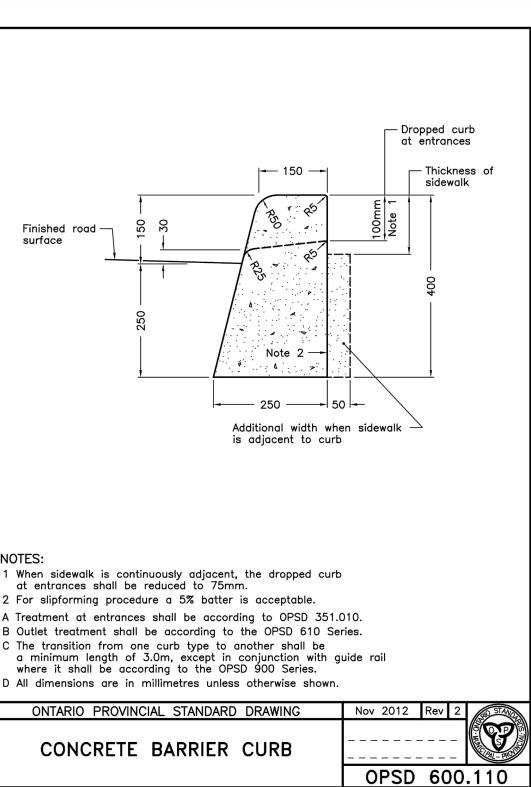
FOR VERTICAL BENDS

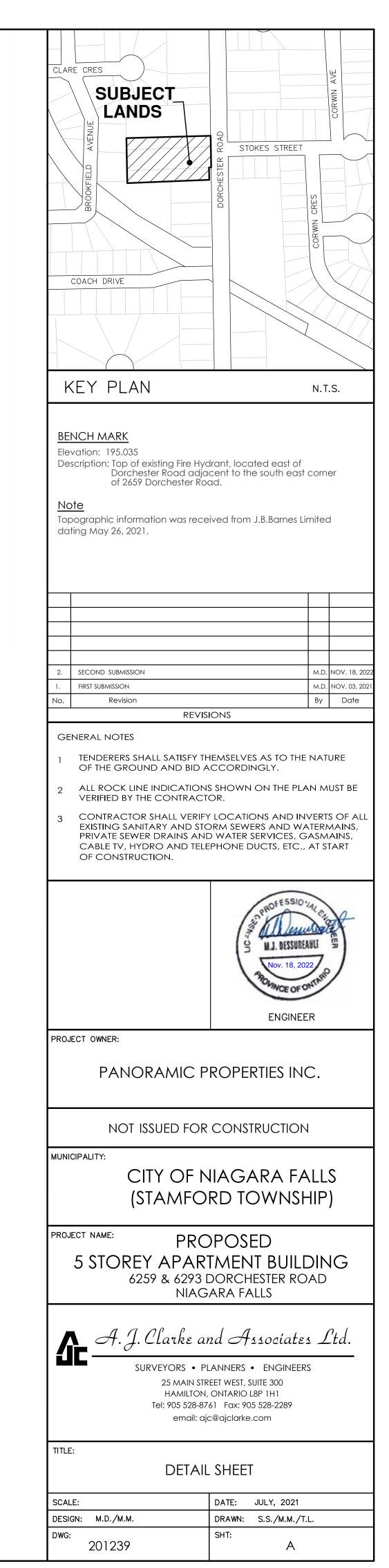
OF 100 TO 199 kPa

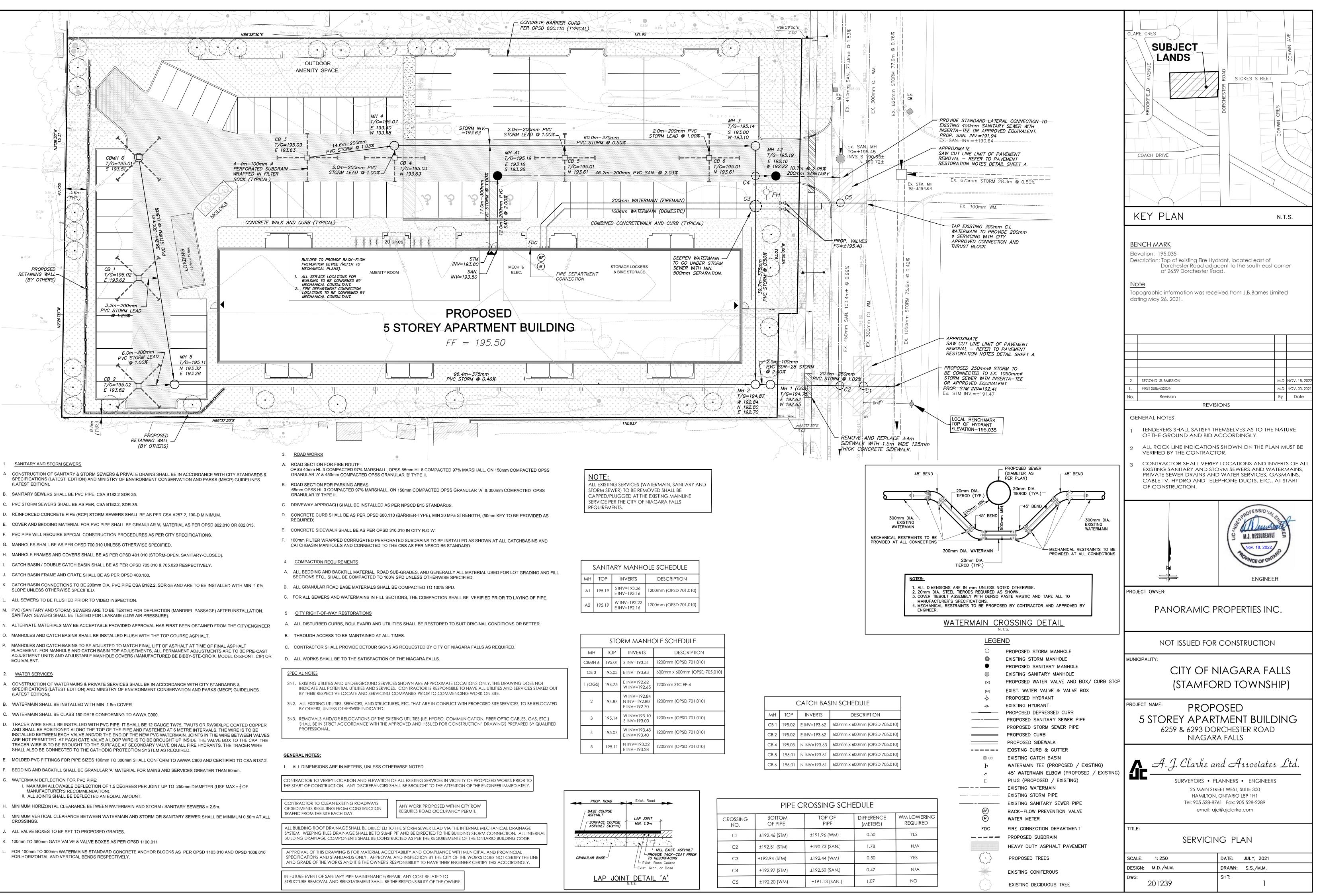
Note 1

a b c d e







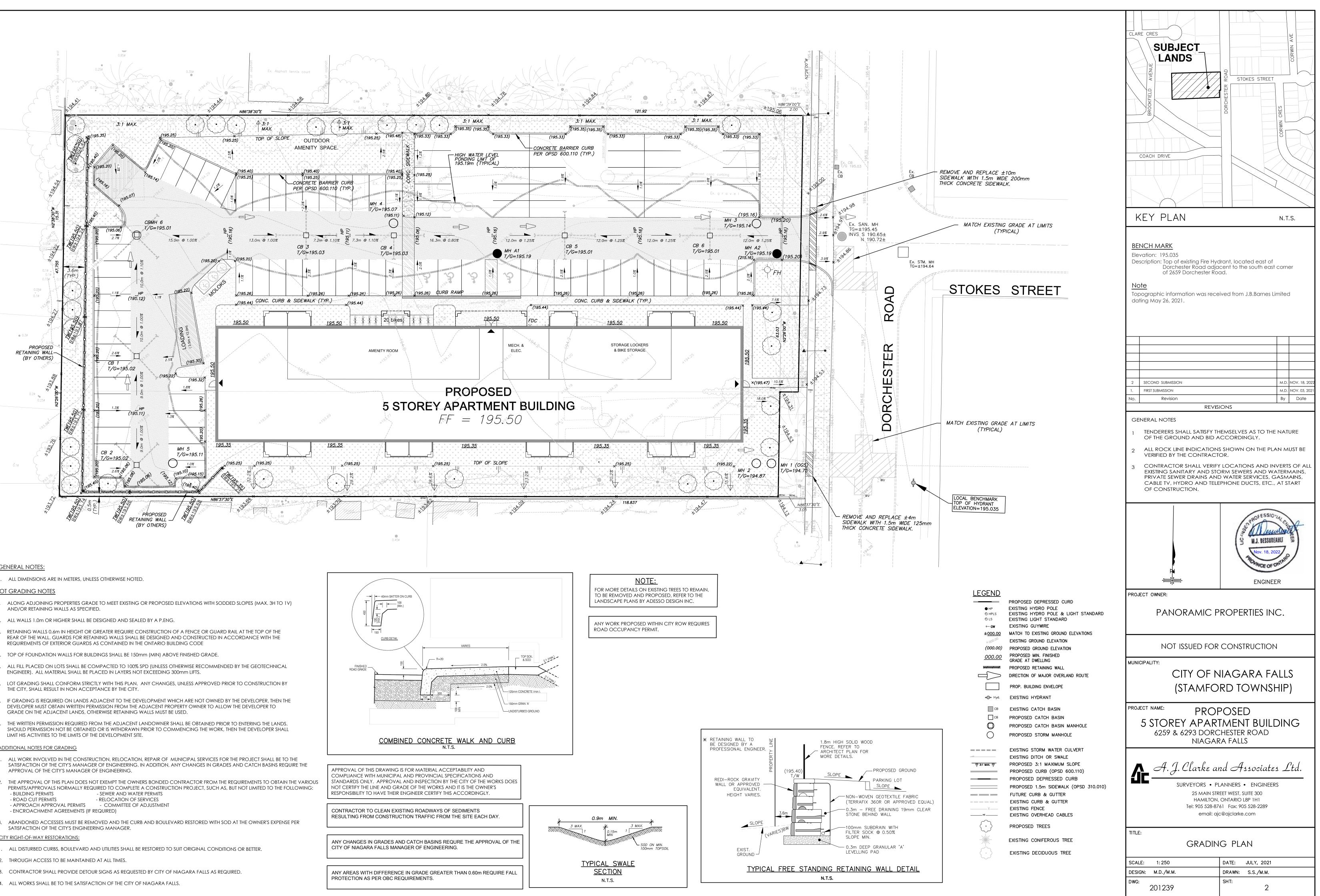


Sanitary manhole schedule					
MH	TOP	INVERTS	DESCRIPTION		
Al	195.19	S INV=193.26 E INV=193.16	1200mm (OPSD 701.010)		
A2	195.19	W INV=192.22 E INV=192.16	1200mm (OPSD 701.010)		

STORM MANHOLE SCHEDULE					
MH	TOP	INVERTS	DESCRIPTION		
CBMH 6	195.01	S INV=193.51	1200mm (OPSD 701.010)		
CB 3	195.03	E INV=193.63	600mm x 600mm (OPSD 705.010)		
1 (OGS)	194.75	E INV=192.62 W INV=192.65	1200 mm SIC EE-4		
2	194.87	W INV=192.84 N INV=192.80 E INV=192.70	1200mm (OPSD 701.010)		
3	195.14	W INV=193.10 S INV=193.00	1200mm (OPSD 701.010)		
4	195.07	W INV=193.48 E INV=193.40	1200mm (OPSD 701.010)		
5	195.11	N INV=193.32 E INV=193.28	1200mm (OPSD 701.010)		

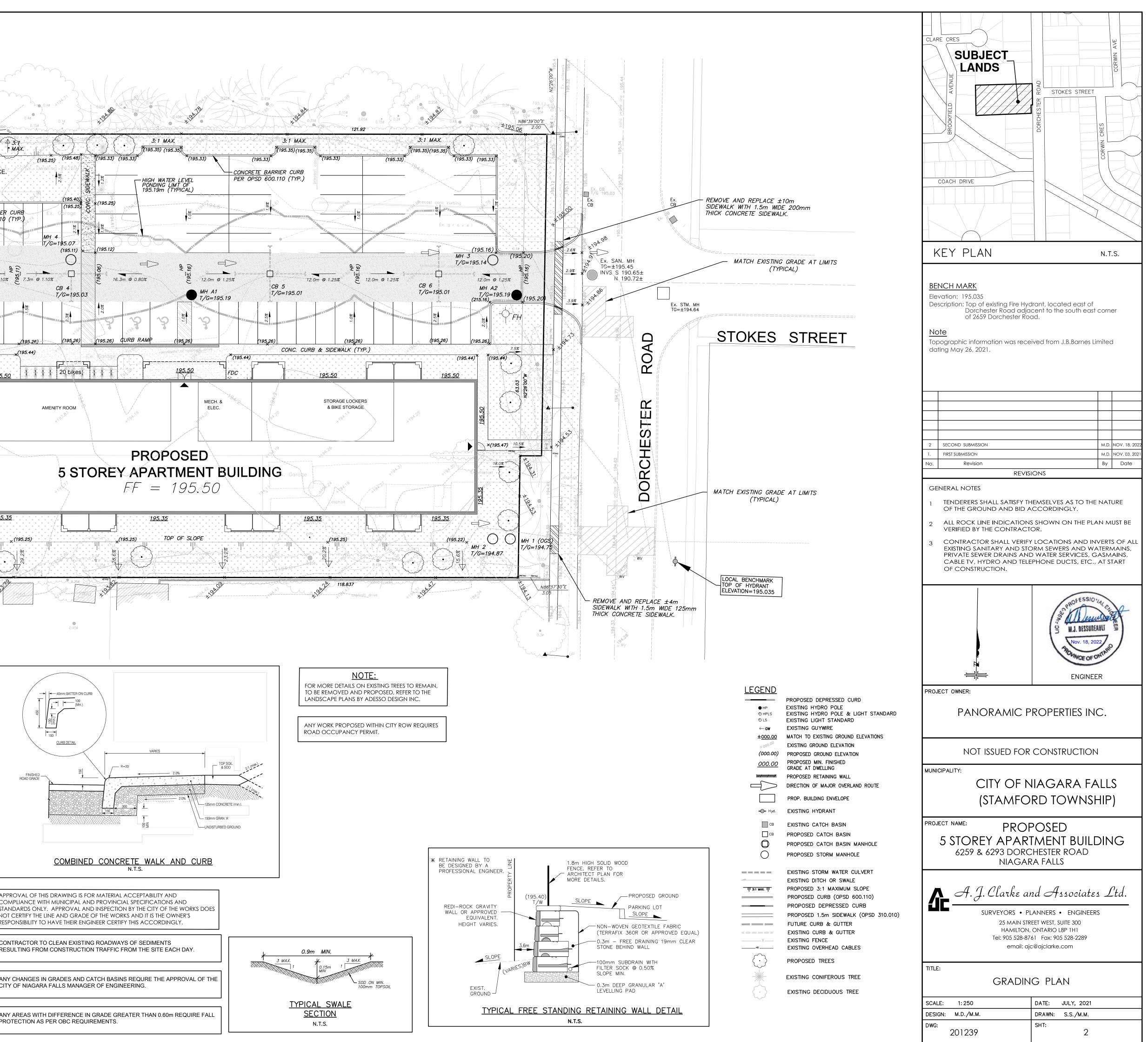
CATCH BASIN SCHEDULE					
MH TOP INVERTS DESCRIPTION		DESCRIPTION			
CB 1	195.02	E INV=193.62	600mm x 600mm (OPSD 705.010)		
CB 2	195.02	E INV=193.62	600mm x 600mm (OPSD 705.010)		
CB 4	195.03	N INV=193.63	600mm x 600mm (OPSD 705.010)		
CB 5	195.01	N INV=193.61	600mm x 600mm (OPSD 705.01)		
CB 6	195.01	N INV=193.61	600mm x 600mm (OPSD 705.010)		

	PIPE CI	rossing sche	EDULE	
CROSSING NO.	BOTTOM OF PIPE	top of Pipe	DIFFERENCE (METERS)	WM LC REQ
C1	±192.46 (STM)	±191.96 (WM)	0.50	YE
C2	±192.51 (STM)	±190.73 (SAN.)	1.78	N,
C3	±192.94 (STM)	±192.44 (WM)	0.50	YE
C4	±192.97 (STM)	±192.50 (SAN.)	0.47	N,
C5	±192.20 (WM)	±191.13 (SAN.)	1.07	NC
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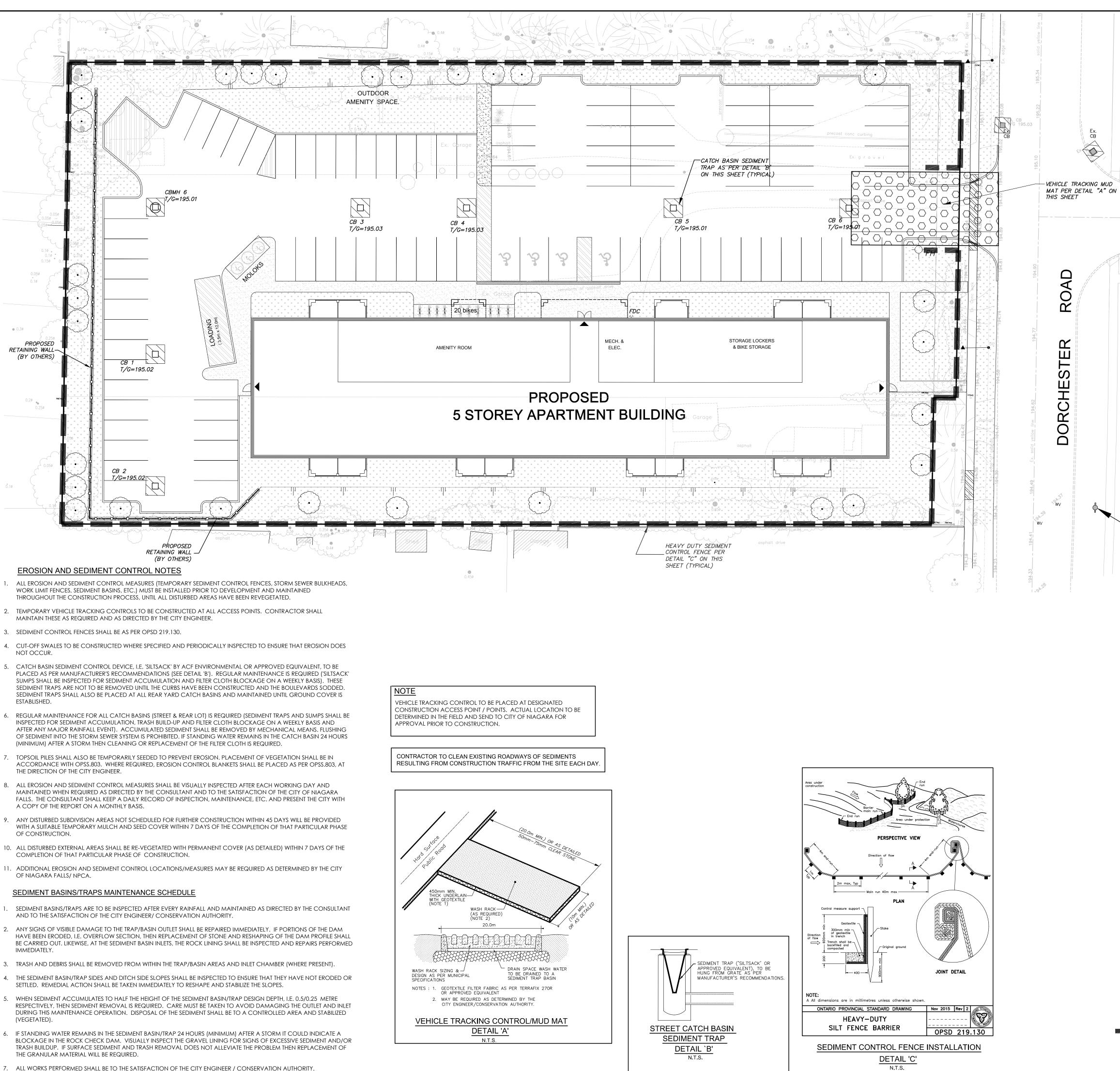
GENERAL NOTES:

OT GRADING NOTES



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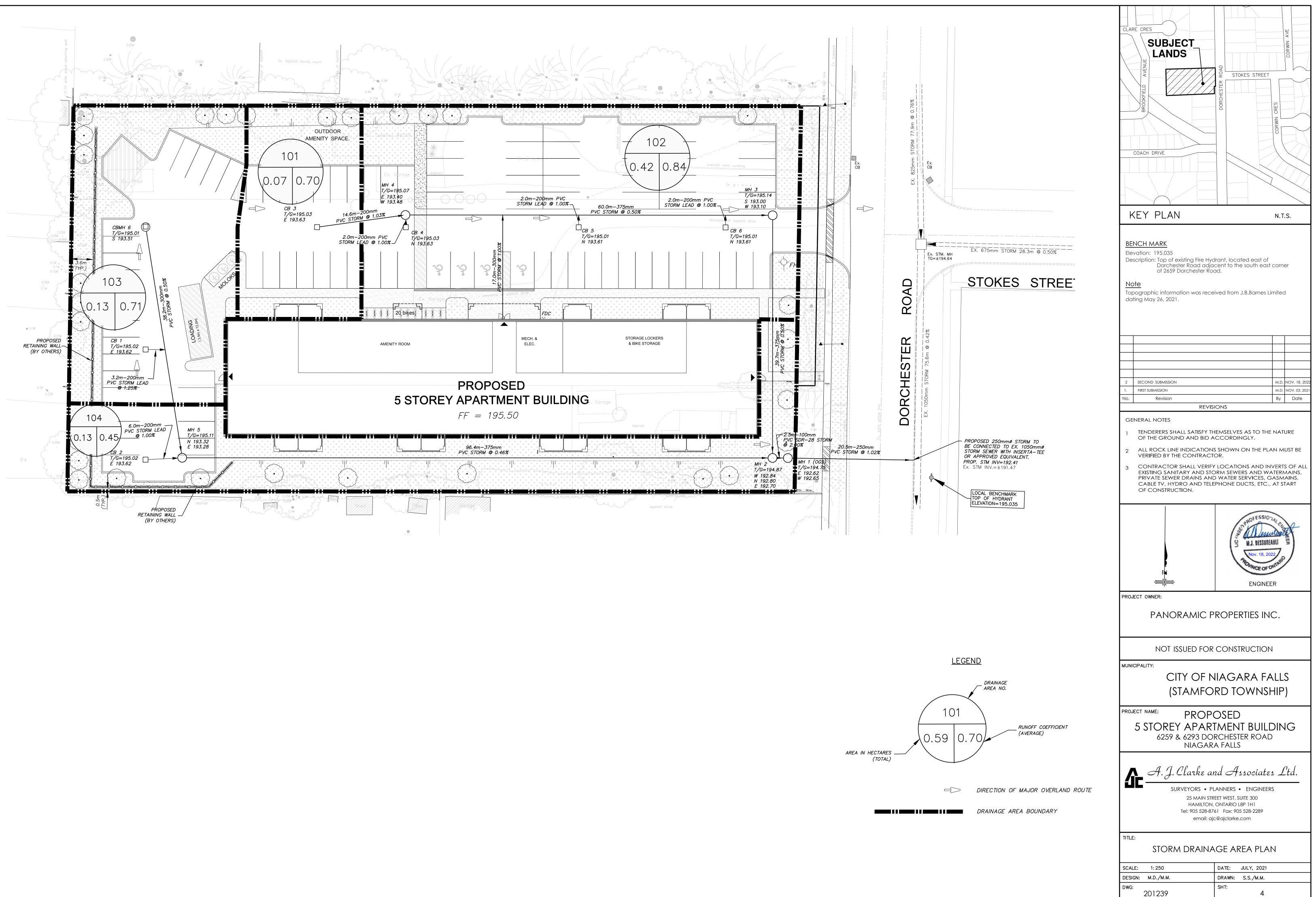
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7. ALL WORKS PERFORMED SHALL BE TO THE SATISFACTION OF THE CITY ENGINEER / CONSERVATION AUTHORITY.

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			SUBJECT LANDS UP UP	TOKES STREET STOKES STREET U U U U U U U U U U U U U
EGEND: VEHICLE TRACKING CONTROL / MUD MAT (DETALL * 2) VEHICLE TRACKING CONTROL / MUD MAT (DETALL * 2) SEDMENT CONTROL FINCE (DETALL * 2) SEDMENT CONTROL FINCE (DETALL * 2)	VIOP OF HYDRANT		2 SECOND SUBMISSION 2 SECOND SUBMISSION 1. FIRST SUBMISSION No. Revision REVIS GENERAL NOTES 1 TENDERERS SHALL SATISFY TH OF THE GROUND AND BID A 2 ALL ROCK LINE INDICATION VERIFIED BY THE CONTRACT 3 CONTRACTOR SHALL VERIFIENTING SANITARY AND STO PRIVATE SEWER DRAINS AND CABLE TV, HYDRO AND TELL	M.D. NOV. 03, 2021 By Date SIONS HEMSELVES AS TO THE NATURE ACCORDINGLY. IS SHOWN ON THE PLAN MUST BE FOR. Y LOCATIONS AND INVERTS OF ALL ORM SEWERS AND WATERMAINS, D WATER SERVICES, GASMAINS,
LEGEND: VEHICLE TRACKING CONTROL / MUD MAT (DETAIL '') VEHICLE TRACKING CONTROL / MUD MAT (DETAIL '') VEHICLE TRACKING CONTROL / MUD MAT (DETAIL '') STREET CATCH BASIN SEDIMENT TRAP (DETAIL '') STREET CATCH BASIN SEDIMENT TRAP (DETAIL '') SEDIMENT CONTROL FENCE (DETAIL 'C) (OPSD 219.130) TILE:			PROJECT OWNER:	ENGINEER
LEGEND: SURVEYORS • PLANNERS • ENGINEERS VEHICLE TRACKING CONTROL / MUD MAT SURVEYORS • PLANNERS • ENGINEERS VEHICLE TRACKING CONTROL / MUD MAT SURVEYORS • PLANNERS • ENGINEERS STREET CATCH BASIN SEDIMENT TRAP HAMILTON, ONTARIO L8P 1H1 Tel: 905 528-8761 Fax: 905 528-2289 email: cjc@cjclarke.com STREET CATCH BASIN SEDIMENT TRAP TITLE: SEDIMENT CONTROL FENCE EROSION AND SEDIMENT CONTROL PLAN SCALE: 1:250			MUNICIPALITY: CITY OF N (STAMFO PROJECT NAME: PRO 5 STOREY APAR 6259 & 6293 D	NIAGARA FALLS RD TOWNSHIP) POSED TMENT BUILDING ORCHESTER ROAD
		(DETAIL 'A') STREET CATCH BASIN SEDIMENT TRAP (DETAIL 'B') SEDIMENT CONTROL FENCE	A. J. Clarke a. SURVEYORS • P 25 MAIN STR HAMILTON Tel: 905 528-87 email: aj	nd Associates Ltd. LANNERS • ENGINEERS REET WEST, SUITE 300 , ONTARIO L8P 1H1 761 Fax: 905 528-2289 jc@ajclarke.com MENT CONTROL PLAN DATE: JULY, 2021



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