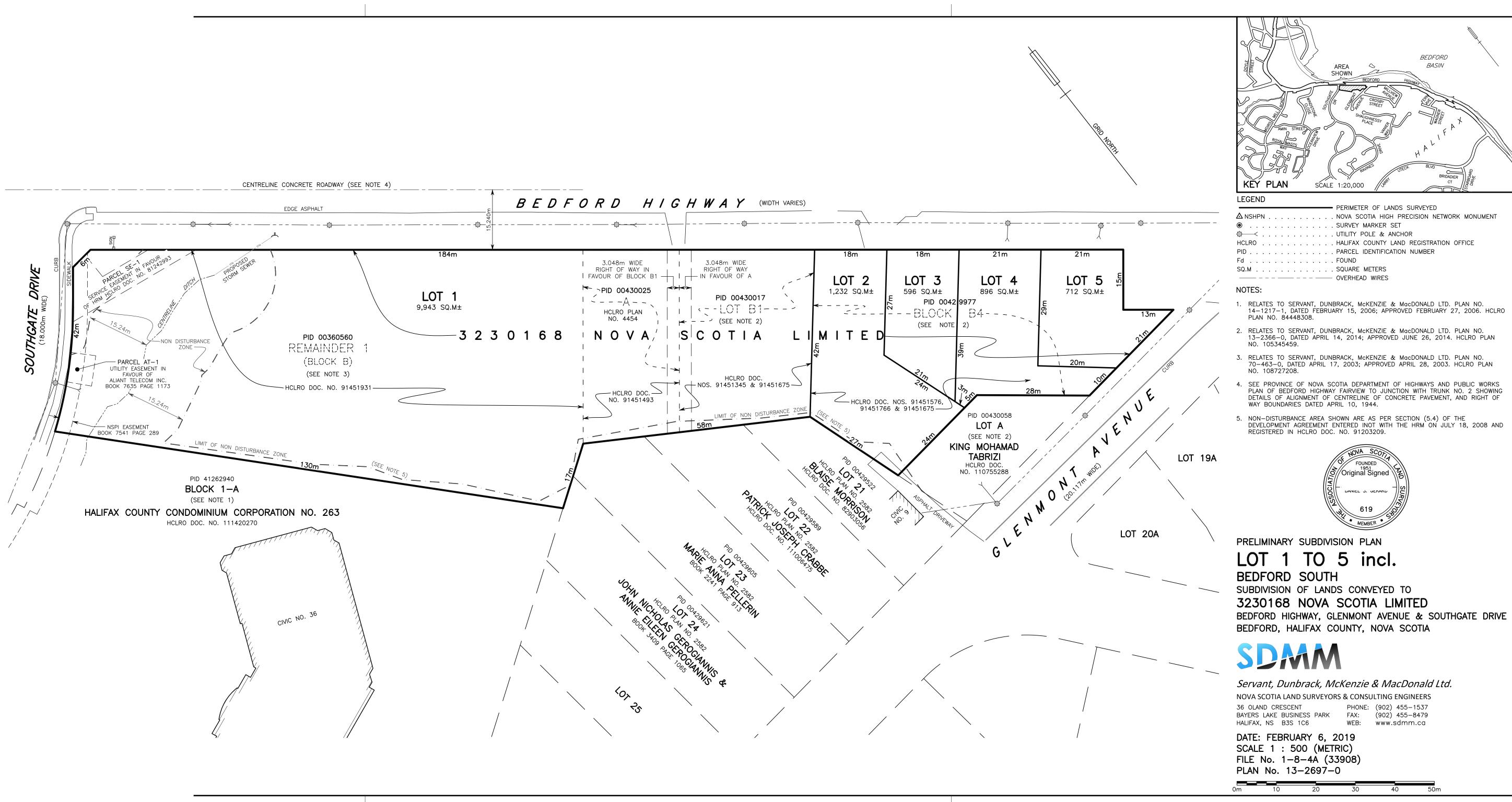
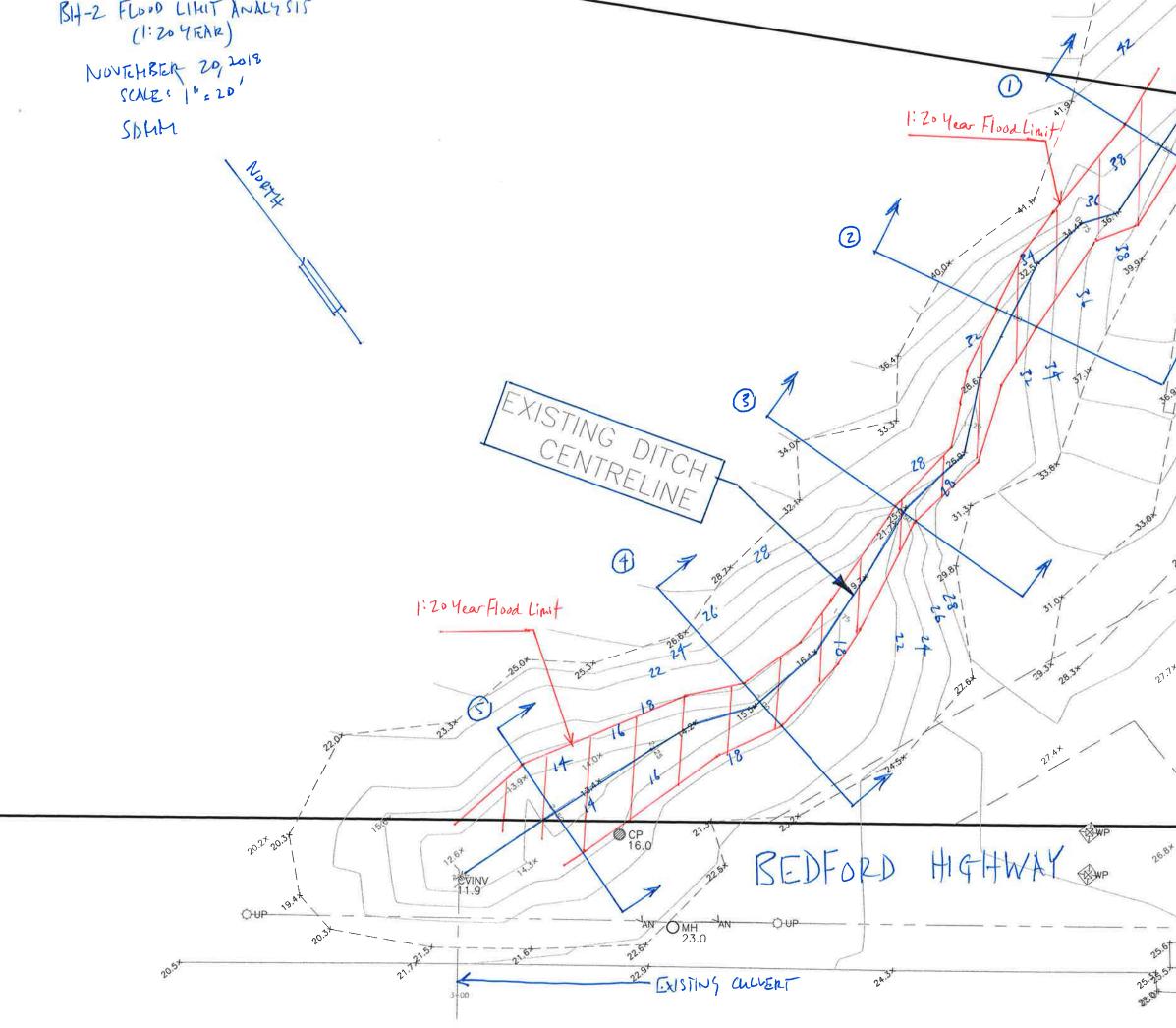
ATTACHMENT G:

Proposed Plan of Subdivision for BH-2 (SDMM)

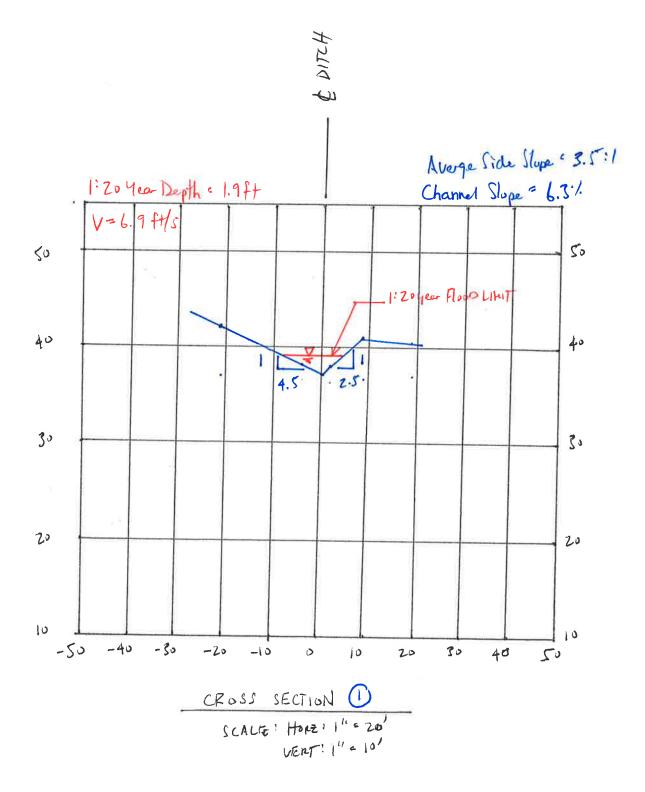


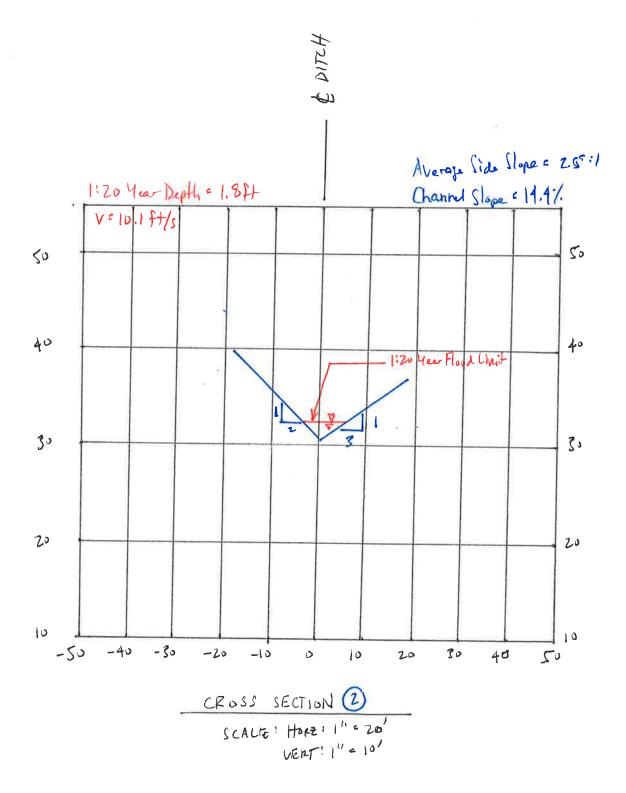
BEDFORD BASIN

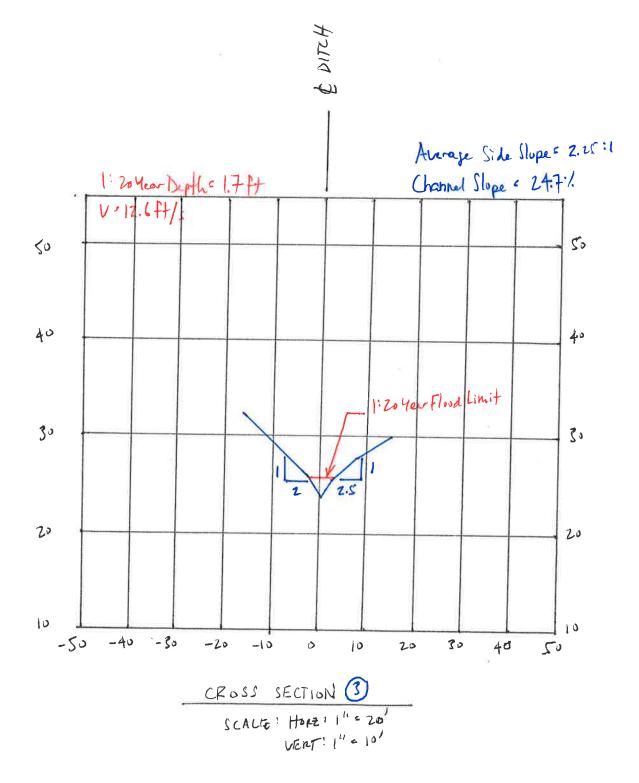
ATTACHMENT H: Flood Limit Analysis for BH-2 (SDMM)

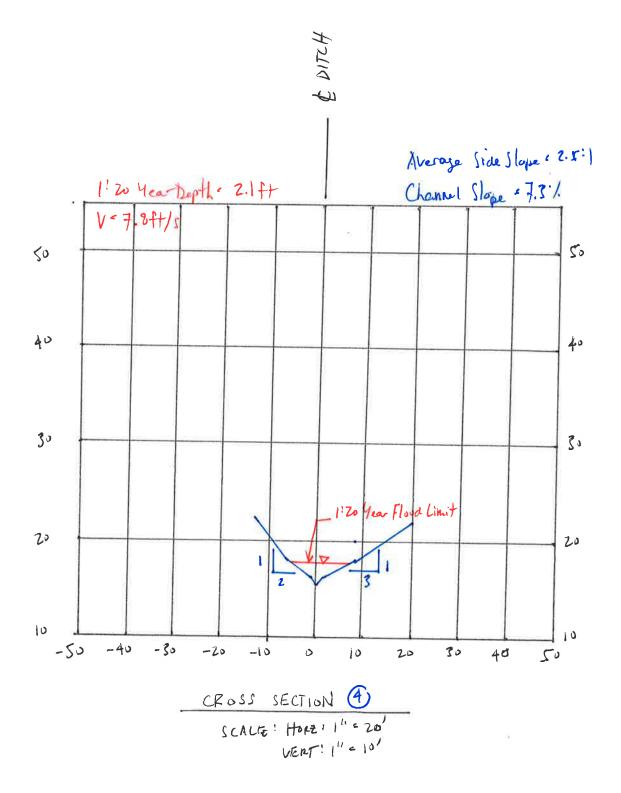


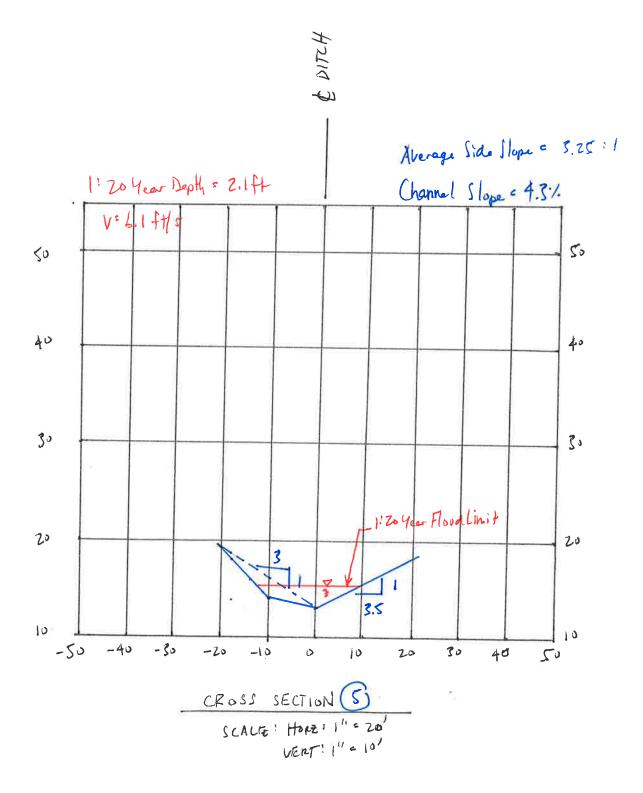
\$2.07 380 25 33.17 339 1 33 17 ' Southgate 31.87 39.87 30.5 16.9t 29 29.3 29.3 29. DRIVE 28.341 28: 280 27.7+ 28: 26.8+ 26.1 20.0 28 20. 25.6 25.8+ 26.04 388.23 + OLS TRAFER











SDMM

BH-2 Development Storm Return Intensity Flow Period (in/hr) (ft³/s) 5 1.27 44.6 10 1.56 62.4 20 1.94 84.9 50 2.21 101.6 100 2.49 118.3			_					
BH-2 DevelopmentStorm ReturnIntensityStorm Return(in/hr)Period(in/hr)51.27101.56201.94502.211002.49		Flow	(ft ³ /s)	44.6	62.4	84.9	101.6	118.3
BH-2 Developm Storm Return Period 5 20 20 50 100	ent	Intensity	(in/hr)	1.27	1.56	1.94	2.21	2.49
	BH-2 Developm	Storm Return	Period	5	10	20	50	100

11/20/2018

Z:\SDMM\33000-33999\33900\33908\Design\33908 - Storm Period Flow Summary.xlsx

ATTACHMENT I:

Revised Traffic Impact Statement



March 12, 2019

Mr. Jafar Tabrizi President, Tabrizi Rugs 180 Bedford Highway Bedford, NS B4A 1C1

[Via Email: tabrizi@tabrizi.com]

RE: Traffic Impact Statement BH-1 and BH-2, Southgate Drive, Bedford, NS

Dear Mr. Tabrizi:

Plans are being prepared for the development of two sites (PID 41119496 referred to as BH-1; and PID 00360560, referred to as BH-2). Both sites are located within the Bedford South Master Plan Area (the site locations are shown in Figure 1) and are being developed by Tabrizi Rugs.

SITE DESCRIPTION -

While there is currently a single family home on the BH-2 site with access to Glenmount Avenue, the majority of the sites are unoccupied and are located on the southwest (BH-1) and southeast (BH-2) corners of the Bedford Highway at Southgate Drive intersection in Bedford, NS (See Figure 1). Both sites are within the Bedford South Master Plan Area.

DESCRIPTION OF PLANNED DEVELOPMENT -

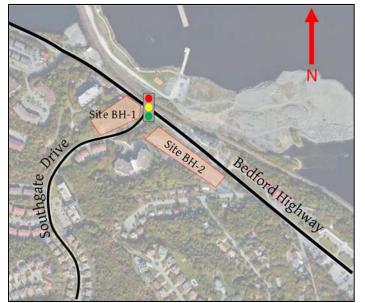


Figure 1 – Location of Subject Sites

The BH-1 site is planned to be residential while

the BH-2 site is now planned to be commercial with some residential units connecting to Glenmount Avenue. Total unit counts for the two sites include:

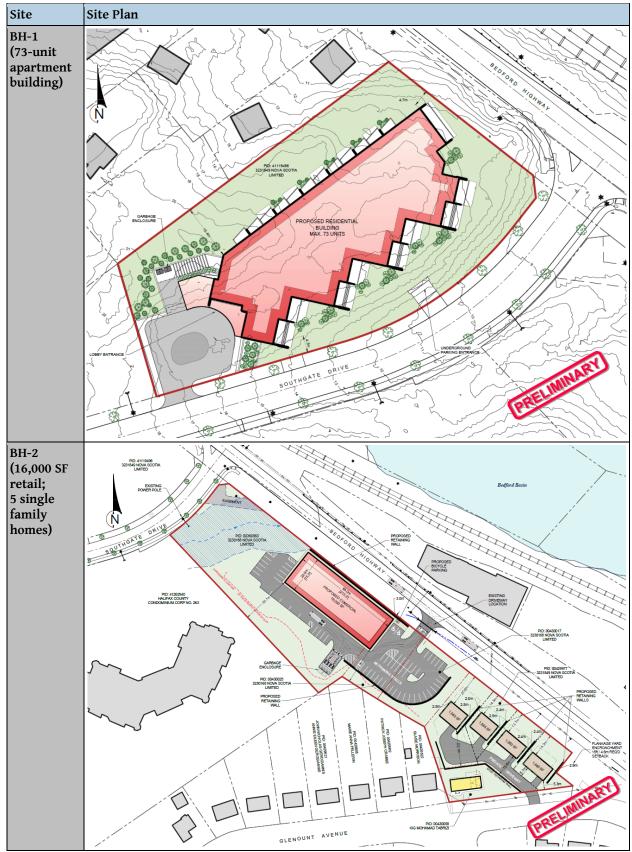
- 73 apartment units (BH-1);
- 16,000 square feet of commercial (BH-2); and,
- 5 single family homes (including the 1 existing home) (BH-2).

The breakdown of proposed units by site and current plans for each site are summarized in Table 1.

vsp

Traffic Impact Statement BH-1 and BH-2, Southgate Drive, Bedford, NS







ACCESS FOR LOT BH-1 -

Vehicular access to Lot BH-1 (See Table 1) is planned to be via an underground parking garage and a surface parking lot for short term drop off/pick up and visitor parking, both driveways will be two-way and access Southgate Drive. Stopping sight distance (SSD) measurements were recorded for the proposed driveways and indicate the following:

Driveway for Surface Lot	SSD measurements recorded indicate over 100 m of available SSD for both directions of travel, which is greater than the minimum SSD of 77 m for an approach speed of 60 km/h on a +6% grade and of 92 m for an approach speed of 60 km/h on a -6% grade.
Surface Lot Driveway for Underground Parking	
	Photo 1 - Looking left (toward Bedford Highway) from the proposed driveway to underground parking

ACCESS FOR LOT BH-2 -

Vehicular access to Lot BH-2 (See Table 1) is planned to be via:

- A single driveway access to Bedford Highway for the 16,000 SF retail area;
- A single shared driveway access to Glenmount Avenue for 4 of the single family units; and,
- Continued use of a driveway to Glenmount Avenue for the remaining 1 single family home.

Stopping sight distance (SSD) measurements were recorded for the proposed driveway onto Bedford Highway and indicate over 110 m of available SSD for both directions of travel, which is greater than the minimum SSD of 101 m for an approach speed of 65 km/h on a -3% grade (See Photos 3 and 4).



Photo 3 – Looking left (toward Southgate Drive) from the proposed driveway connection to Bedford Highway



Photo 4 – Looking right from the proposed driveway connection to the Bedford Highway



DESCRIPTION OF EXISTING STREETS AND INTERSECTION -

Bedford Highway is an arterial road that runs north-south between Bedford and Windsor Street in Halifax. In the subject area, the Bedford Highway has a 50 km/h posted speed limit, sidewalk on the west side ending at Southgate Drive and a twolane cross section and marked bicycle lanes. Machine traffic counts collected by HRM Traffic Management in October 2018 between Larry Uteck Boulevard and Southgate Drive indicate a two-way volume on Bedford Highway of approximately 16,700 vehicles per day (vpd) with two-way volumes of approximately 950 vehicles per hour (vph) in the AM peak hour and 1,350 vph in the PM peak hour. A planning study by HRM is currently underway to improve mobility of transit and active transportation through the corridor.

Southgate Drive is a minor collector road that runs east-west from Larry Uteck Boulevard in the west to Bedford Highway in the east. Southgate Drive has a two-lane cross section and a 50 km/h speed limit with concrete sidewalk on the south side. Machine traffic counts collected by HRM Traffic Management in October 2017 indicate a daily volume of approximately 3,500 vehicles per day.

Glenmount Avenue is a local street that runs east-west from its intersection with the Bedford to its terminus with a cul-desac bulb. The street has two lane urban cross section and no concrete sidewalk.

The T-intersection of Bedford Highway at Southgate Drive is signalized with lane configurations that include a northbound left turn lane, a southbound right turn channelized island, and a two lane eastbound approach (See Figure 2).

TRANSIT -

Halifax Transit currently operates Route #80 and #82 past the

site with stops on both sides of Bedford Highway immediately in front of Site BH-2 (the existing shelter at the Halifaxbound bus stop can be seen in Photo 3). *Moving Forward Together Plan* (Halifax Transit, 2016) indicates that transit routes #8 (corridor route) and #93 will operate on Bedford Highway past the site and that route #192 will operate on Southgate Drive. The *Integrated Mobility Plan* (HRM, 2017) identifies the Bedford Highway as a Transit Priority Corridor.

TRIP GENERATION PROPOSED SITE-

The number of trips that will be generated by the proposed development has been estimated using rates published in *Trip Generation*, 10th Edition (Institute of Transportation Engineers, Washington, 2017). Trip generation estimates are summarized in Table 2. Since one of the single family homes onto Glenmount Avenue is existing and there are no planned changes to its use, the generation of new development trips to Glenmount Avenue is four single family homes.

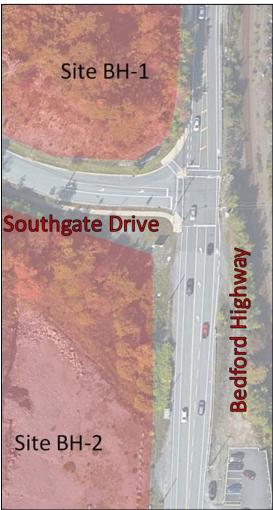


Figure 2 – Bedford Highway at Southgate Drive Intersection Layout



Table 2 – Trip Generation Estimates

	16		Tip Oche		otimates				
		Trip Generation Rates			Trips Generated ⁴				
Land Use	Units ³	AM Peak		PM Peak		AM Peak		PM Peak	
		In	Out	In	Out	In	Out	In	Out
Trip Generation Estimate for B	Trip Generation Estimate for BH-1 Residential Development (Access to Southgate Drive) ¹								
Multifamily Housing (Mid-Rise) (Land Use 221)	73	0.09	0.27	0.27	0.17	7	19	20	13
Trip Generation Estimate for B	H-2 with	Bedford H	ighway A	Access ²					
Retail (Land Use 826)	16	0.76	0.60	1.19	1.52	12	10	19	24
Trip Generation Estimate for B	H-2 with	Glenmour	t Avenue	Access ¹					
Single Family Residential (Land Use 210)	4	0.19	0.56	0.62	0.37	1	2	2	1
			Tot	al Estima	ted Trips	20	31	41	38
20% Trip Reduction to Acco	unt for In	ternal Site	e Trips and	d Non-Aut	o Modes⁵	-4	-6	-8	-8
Total Vehicle Trips Generated By This Development 16 25 33 30							30		
Notes: 1. Trip generation rates rates from Trip Genera		-	-						published

- 2. Since the 10th Edition does not include rates for Specialty Retail, rates for Land Use 826 from the 9th Edition have been used. Rates for 'Peak Hour of Adjacent Street Traffic' has been used to estimate PM peak hour trips. AM trip rates have been assumed to be 50% of PM rates with reversal of directional split.
- 3. Units are 'number of units' for residential, '1000 Sq. Ft Gross Leasable Area' for Retail.
- 4. Vehicles per hour for peak hours
- 5. Trip generation estimates have been reduced by 20% to account for trips between complementing land uses within the development as well as non-auto modes. This considers the *Integrated Mobility Plan (HRM 2017)* target of at least 26% non-auto for the inner Suburban Areas.

A summary of the estimated trips by access and for the combined site development is included in Table 3.

	AM Peak Hour	PM Peak Hour			
BH-1	26 two-way trips (7 entering and 19 exiting)	33 two-way trips (20 entering and 13 exiting)			
BH-2 Via Bedford Highway	22 two-way trips (12 entering and 10 exiting)	43 two-way trips (19 entering and 24 exiting)			
BH-2 Via Glenmount Avenue	3 new two-way trips (1 entering and 2 exiting)	3 new two-way trips (2 entering and 1 exiting)			
Total Combined Sites (BH-1 and BH-2)	51 two-way trips (20 entering and 31 exiting)	79 two-way trips (41 entering and 38 exiting)			

Table 3 – Summary of Estimated Trips

With the 20% reduction for internal trip capture between complementing land uses and consideration of non-auto modes, it is estimated that the development will generate:

- 41 new two-way vehicle trips (16 entering and 25 exiting) during the AM peak hour; and,
- 63 new two-way vehicle trips (33 entering and 30 exiting) during the PM peak hour.



SUMMARY -

- 1. Plans are being prepared for the development of a 73 unit apartment building, 16,000 square feet of retail area, and 5 single family homes (including one existing home).
- 2. Vehicular access to the apartment (lot BH-1) site will be via an underground parking garage with connection to Southgate Drive. An additional surface parking lot with access from Southgate Drive will be provided.
- 3. Vehicular access to 16,000 square foot retail area (lot BH-2) will be via a single driveway onto the Bedford Highway. The 5 BH-2 single family homes will be accessed from Glenmount Avenue.
- 4. It is estimated that once developed, the combined site will generate a total of 51 new two-way trips (20 entering and 31 exiting) during the AM peak hour and 79 two-way trips (41 entering and 38 exiting) during the PM peak hour.
- 5. After considering a 20% reduction in trips to account for onsite synergies and non-auto modes, it is estimated that once developed, the combined site will generate a total of 41 new two-way vehicle trips (16 entering and 25 exiting) during the AM peak hour and 63 new two-way vehicle trips (33 entering and 30 exiting) during the PM peak hour.

CONCLUSION -

6. The development of the combined site as a 73-unit apartment building, a 16,000 square foot retail building, and 5 single family homes (including 1 existing) is not expected to have any significant impact on levels of performance on adjacent streets and intersections or to the regional street system.

If you have any questions or comments, please contact me by email at patrick.hatton@wsp.com or by telephone at 902-536-0954.

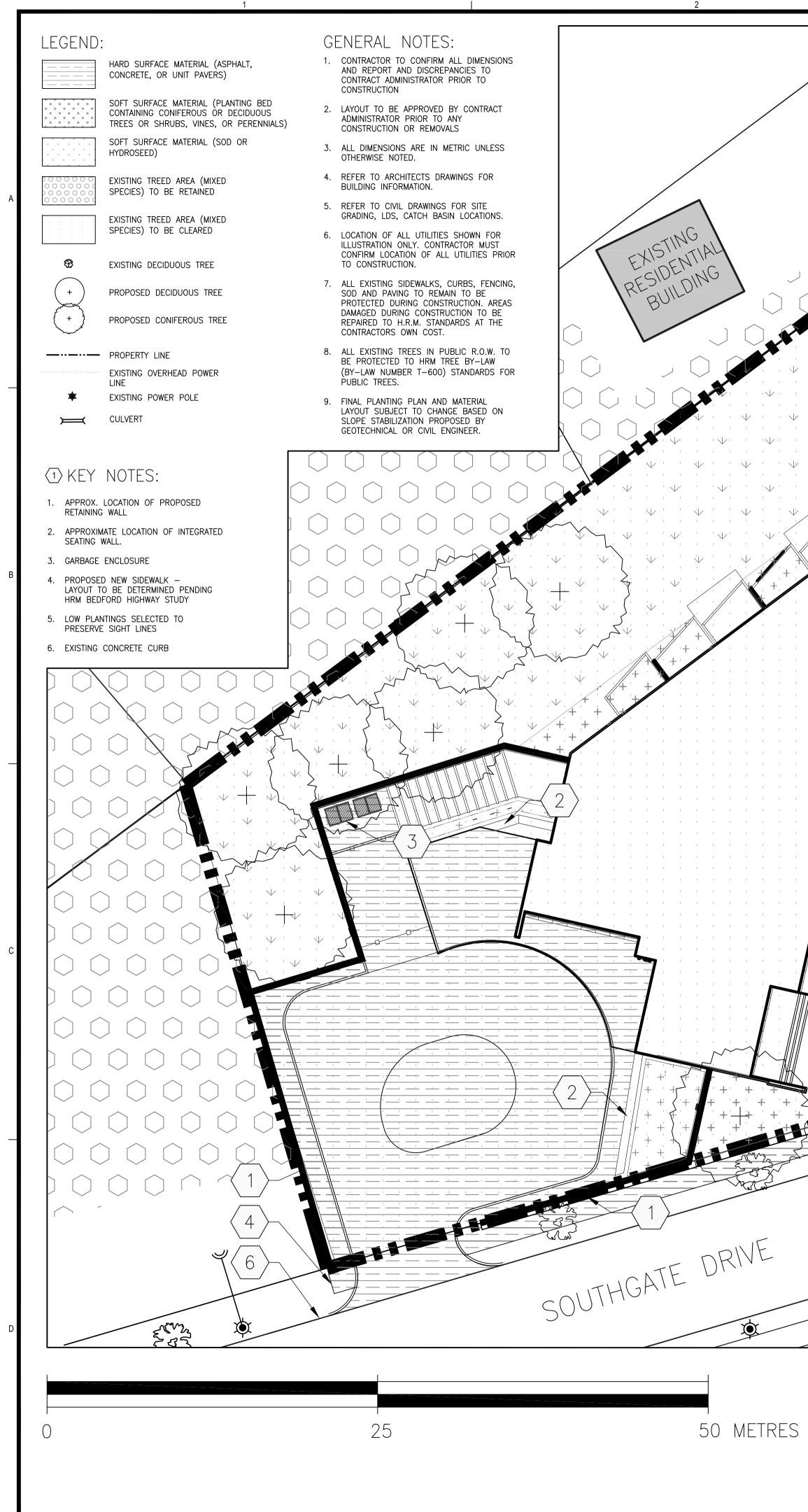
Sincerely, Original Signed

> Patrick Hatton, P.Eng. Traffic & Transportation Engineer WSP Canada Inc.



ATTACHMENT J:

Preliminary Landscape Plan for BH-1 and BH-2 (A49)



A1-TB (594 X 841)

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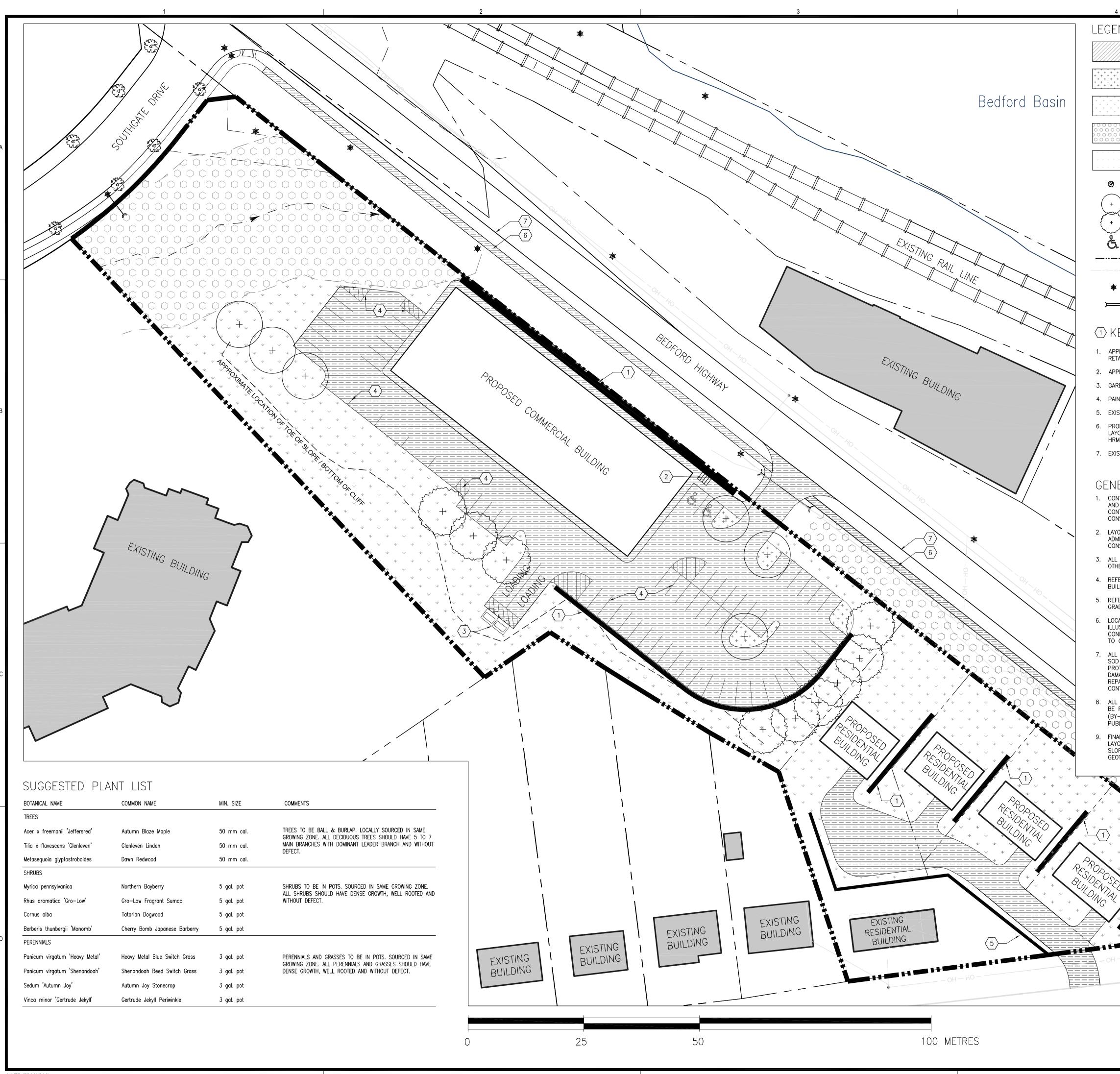
SUGGESTED PLANT LIST

BOTANICAL NAME	COMMON NAME	MIN. SIZE	СОММ
TREES			
Acer x freemanii 'Jeffersred'	Autumn Blaze Maple	50 mm cal.	TREES GROWIN
Tilia x flavescens 'Glenleven'	Glenleven Linden	50 mm cal.	MAIN E
Metasequoia glyptostroboides	Dawn Redwood	50 mm cal.	DEFECT
SHRUBS			
Myrica pennsylvanica	Northern Bayberry	5 gal. pot	SHRUB
Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	5 gal. pot	all si Withou
Cornus alba	Tatarian Dogwood	5 gal. pot	
Berberis thunbergii 'Monomb'	Cherry Bomb Japanese Barberry	5 gal. pot	
PERENNIALS			
Panicum virgatum 'Heavy Metal'	Heavy Metal Blue Switch Grass	3 gal. pot	PEREN
Panicum virgatum 'Shenandoah'	Shenandoah Reed Switch Grass	3 gal. pot	GROWIN DENSE
Sedum 'Autumn Joy'	Autumn Joy Stonecrop	3 gal. pot	
Vinca minor 'Gertrude Jekyll'	Gertrude Jekyll Periwinkle	3 gal. pot	

EXISTENTING RESIDENTIONS

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	CONSULTANT		
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	GML / NEM CHECKED BHAVANA BONDE, APALA APPROVED	1:200 DATE MARCH 2	
MENTS S TO BE BALL & BURLAP. LOCALLY SOURCED IN SAME VING ZONE. ALL DECIDUOUS TREES SHOULD HAVE 5 TO 7	GML / NEM CHECKED BHAVANA BONDE, APALA APPROVED PROJECT	1:200 DATE MARCH 2 PROJECT NO. 161-125	
MENTS S TO BE BALL & BURLAP. LOCALLY SOURCED IN SAME	GML / NEM CHECKED BHAVANA BONDE, APALA APPROVED PROJECT SOUTHGATE VIL	1:200 DATE MARCH 2 PROJECT NO. 161-125	
MENTS S TO BE BALL & BURLAP. LOCALLY SOURCED IN SAME WING ZONE. ALL DECIDUOUS TREES SHOULD HAVE 5 TO 7 BRANCHES WITH DOMINANT LEADER BRANCH AND WITHOUT	GML / NEM CHECKED BHAVANA BONDE, APALA APPROVED PROJECT	1:200 DATE MARCH 2 PROJECT NO. 161-125	
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BOTANICAL NAME	COMMON NAME	MIN. SIZE	COMMENTS		
TREES					
Acer x freemanii 'Jeffersred'	Autumn Blaze Maple	50 mm cal.	TREES TO BE BALL & BURLAP. LOCALLY SOURCED IN SAME GROWING ZONE. ALL DECIDUOUS TREES SHOULD HAVE 5 TO 7		
Tilia x flavescens 'Glenleven'	Glenleven Linden	50 mm cal.	MAIN BRANCHES WITH DOMINANT LEADER BRANCH AND WITHOUT DEFECT.		
Metasequoia glyptostroboides	Dawn Redwood	50 mm cal.			
SHRUBS					
Myrica pennsylvanica	Northern Bayberry	5 gal. pot	SHRUBS TO BE IN POTS. SOURCED IN SAME GROWING ZONE. ALL SHRUBS SHOULD HAVE DENSE GROWTH, WELL ROOTED AND		
Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	5 gal. pot	ALL SHRUBS SHOULD HAVE DENSE GROWTH, WELL ROUTED AN WITHOUT DEFECT.		
Cornus alba	Tatarian Dogwood	5 gal. pot			
Berberis thunbergii 'Monomb'	Cherry Bomb Japanese Barberry	5 gal. pot			
PERENNIALS					
Panicum virgatum 'Heavy Metal'	Heavy Metal Blue Switch Grass	3 gal. pot	PERENNIALS AND GRASSES TO BE IN POTS. SOURCED IN SAME		
Panicum virgatum 'Shenandoah'	Shenandoah Reed Switch Grass	3 gal. pot	GROWING ZONE. ALL PERENNIALS AND GRASSES SHOULD HAV DENSE GROWTH, WELL ROOTED AND WITHOUT DEFECT.		
Sedum 'Autumn Joy'	Autumn Joy Stonecrop	3 gal. pot			
Vinca minor 'Gertrude Jekyll'	Gertrude Jekyll Periwinkle	3 gal. pot			

	CLIENT	
END: HARD SURFACE MATERIAL (ASPHALT, CONCRETE, OR UNIT PAVERS)	TABRIZI	
SOFT SURFACE MATERIAL (PLANTING BED CONTAINING CONIFEROUS OR DECIDUOUS		
* + * + * TREES OR SHRUBS, VINES, OR PERENNIALS * • • • • • SOFT SURFACE MATERIAL (SOD OR) ARCHITECT	
HYDROSEED)	ARCHITECTU	RE 49
EXISTING TREED AREA (MIXED	1640 Market Street, Halifax, Nova Scotia,	
SPECIES) TO BE CLEARED	T: 902-429-5490 F: 902-429-2632 www.a 	rchitecture49.com
PROPOSED DECIDUOUS TREE		
ACCESSIBLE PARKING STALL		
PROPERTY LINE		
EXISTING POWER POLE		
KEY NOTES: PPROX. LOCATION OF PROPOSED		
PROXIMATE LOCATION OF BIKE RACKS		
ARBAGE ENCLOSURE		
AINTED PARKING LINES KISTING RETAINING WALL		
ROPOSED NEW SIDEWALK – NYOUT TO BE DETERMINED PENDING RM BEDFORD HIGHWAY STUDY		
KISTING EDGE OF PAVEMENT		
NERAL NOTES:		29 MAD 2010
NEITAL INOTES. DNTRACTOR TO CONFIRM ALL DIMENSIONS ND REPORT AND DISCREPANCIES TO	1 ISSUED FOR PLANNING APPLICATION NO. ISSUED FOR	28-MAR-2019 DATE
ONTRACT ADMINISTRATOR PRIOR TO	DISCLAIMER THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED W	
YOUT TO BE APPROVED BY CONTRACT DMINISTRATOR PRIOR TO ANY DNSTRUCTION OR REMOVALS	REPRODUCED OR REVISED WITHOUT WRITTEN PERMISSIO CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS OMISSIONS PRIOR TO COMMENCING WORK. THIS DRAWING	AND REPORT ALL ERRORS AND
L DIMENSIONS ARE IN METRIC UNLESS THERWISE NOTED.	NORTH ARROW	
FER TO ARCHITECTS DRAWINGS FOR JILDING INFORMATION.		\setminus
FER TO CIVIL DRAWINGS FOR SITE RADING, LDS, CATCH BASIN LOCATIONS.	N	
CATION OF ALL UTILITIES SHOWN FOR LUSTRATION ONLY. CONTRACTOR MUST DNFIRM LOCATION OF ALL UTILITIES PRIOR CONSTRUCTION. L EXISTING SIDEWALKS, CURBS, FENCING,		/
DD AND PAVING TO REMAIN TO BE ROTECTED DURING CONSTRUCTION. AREAS MAGED DURING CONSTRUCTION TO BE EPAIRED TO H.R.M. STANDARDS AT THE DNTRACTORS OWN COST.	SEAL	
L EXISTING TREES IN PUBLIC R.O.W. TO E PROTECTED TO HRM TREE BY—LAW IY—LAW NUMBER T—600) STANDARDS FOR JBLIC TREES.		
NAL PLANTING PLAN AND MATERIAL YOUT SUBJECT TO CHANGE BASED ON OPE STABILIZATION PROPOSED BY EOTECHNICAL OR CIVIL ENGINEER.	DRAWN SCALE	250
	CHECKED DATE	ADCU 20.2040
	APPROVED PROJECT	
	PROJECT	1-12598-00
	SOUTHGATE VILLAGE BH-2	
	BEDFORD DRAWING TITLE	NOVA SCOTIA
	LANDSCAPE PLAN BH-2	
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