

Pre-Development

Ivany Place					
Item	Drainage Area (ha)	Description of area	CN	Q _s (L/s)	Q ₁₀₀ (L/s)
Development Area	0.02	Grass	86	3	6

Post-Development

Ivany Place		Dartmouth, NS						RK	
		Uncontrolled Flow				Controlled Flow			
	Drainage	Description		Q _s	Q ₁₀₀		Q _s	Q ₁₀₀	
Item	Area (ha)	of area	CN	(L/s)	(L/s)		(L/s)	(L/s)	
Development Area	0.02	Roof	95	4	8		3	6	

Note:

1) Catch Basin inlet control devices (ICD) and Roof Flow Controls included in the Northwood Apartment Building Project will ensure pre and post-development flows are balanced as per HW Specifications

NOTES:

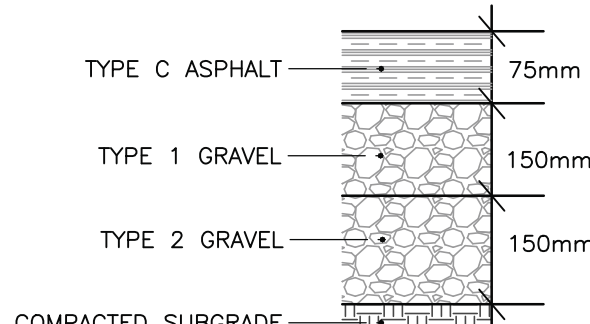
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. ANY DISCREPANCIES MUST BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.
- EXISTING WATER, STORMWATER AND WASTEWATER UNDERGROUND PIPING IS APPROXIMATE ONLY; SDMM DOES NOT TAKE RESPONSIBILITY FOR THE INFORMATION RECEIVED FROM OTHERS. CONTRACTOR TO VERIFY EXACT LOCATION AND ELEVATION IN THE FIELD AND NOTIFY THE ENGINEER IF SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE APPROVED DESIGN DRAWINGS.
- CONTRACTOR SHALL NOTIFY SDMM 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO SCHEDULE A PRECONSTRUCTION MEETING AND ARRANGE SUBSEQUENT SITE INSPECTIONS FOR DATA COLLECTION REQUIRED TO PREPARE RECORDS OF NEW STORMWATER SERVICES AS PER HALIFAX WATER (HW) SPECIFICATIONS.
- CONTRACTOR TO OBTAIN AND PAY FOR HALIFAX REGIONAL MUNICIPALITY (HRM) STREET & SERVICES PERMITS PRIOR TO CONSTRUCTION AND NOTIFY HRM AND HW OF SCHEDULED STREET WORK AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR TO PAY FOR ALL HW INSPECTION FEES.
- CONTRACTOR TO CONTACT ALL UTILITY COMPANIES (HALIFAX WATER, BELL ALANT, EASTLINK, NS POWER INC., HERITAGE GAS, ETC.) TO CONFIRM IF ANY UNDERGROUND SERVICES EXIST IN THE VICINITY OF PROPOSED WORK PRIOR TO EXCAVATION.
- EXISTING SITE TOPOGRAPHIC INFORMATION SURVEYED BY SDMM. FIELD WORK COMPLETED JUNE 2019. ELEVATIONS ARE GEODETIC (METERS) AND REPRESENT EXISTING SITE GRADES. CONTACT SDMM FOR LOCAL SURVEY CONTROL.
- PROPERTY BOUNDARIES FROM SDMM SITE PLAN BLOCK 3-1B, #14-1743-0, DATED DECEMBER 2015.
- CONTRACTOR MUST PREVENT EROSION OR SILTATION OF SURFACE RUNOFF FROM LEAVING THE CONSTRUCTION SITE THROUGH THE USE OF EROSION AND SEDIMENTATION CONTROLS (SEE NSE EROSION AND SEDIMENTATION CONTROL HANDBOOK FOR CONSTRUCTION SITES). CONSTRUCTION OR EXCAVATION DEWATERING TO MUNICIPAL SEWER SYSTEMS MUST ADHERE TO HALIFAX WATER REGULATIONS.
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH NOVA SCOTIA REGULATIONS AND HRM BY-LAWS, HW DESIGN AND CONSTRUCTION SPECIFICATIONS (LATEST EDITION) AND HRM MUNICIPAL SERVICE SYSTEM GUIDELINES "RED BOOK" (LATEST EDITION), AND HALIFAX WATER REGULATIONS.
- ALL CONSTRUCTION ACTIVITIES MUST BE SCHEDULED TO MINIMIZE SERVICE/PUBLIC ACCESS INTERRUPTION.
- FINAL GRADING SHALL BE CONSTRUCTED TO ENSURE POSITIVE DRAINAGE OF STORMWATER AWAY FROM BUILDINGS. UNLESS OTHERWISE STATED, CONSTRUCTED GRADES SHALL BE A MINIMUM OF 2% TO A MAXIMUM OF 3% (EXCEPT FOR ROCK FACES/RETAINING WALLS). ALL DISTURBED AREAS SHALL BE FINISHED WITH EITHER CONCRETE OR ASPHALT, TOPSOIL AND SEED OR SOD.
- ELEVATIONS AND SITE GRADING SHALL BE CONFIRMED BY CONTRACTOR WITH ENGINEER PRIOR TO CONSTRUCTION.
- CONTRACTOR TO SAW CUT EXISTING ASPHALT AND REINSTATE ADJACENT TO EXISTING WALKWAY.
- CONTRACTOR MUST INSTALL SILT BAGS IN EACH OF THE EXISTING & NEW CATCH BASINS AND MAINTAIN UNTIL FINAL REINSTATEMENT IS COMPLETE.
- CONTRACTOR SHALL PROVIDE DAILY MONITORING OF EROSION/SEDIMENT CONTROLS EVEN WHEN THE CONSTRUCTION SITE IS IDLE. PARTICULAR ATTENTION IS REQUIRED TO MAINTAIN OR UPGRADE MEASURES ON DAYS PRIOR TO FORECASTED RAIN EVENTS. RESOURCES MUST ALWAYS BE MADE AVAILABLE EVEN IF CONSTRUCTION ACTIVITIES NEED TO BE INTERRUPTED.
- RETAINING WALLS TO BE DESIGNED AND CERTIFIED BY GEOTECHNICAL ENGINEER.
- ALL RETAINING WALLS TO BE COMPLETE WITH HANDRAIL WHEN GREATER THAN 1m.
- THE PROPOSED STORMWATER SEWER & CATCH BASINS SHALL BE INSTALLED AS PER THE HW DESIGN AND CONSTRUCTION SPECIFICATIONS (LATEST EDITION). CATCH BASINS TO BE 1050mm (MIN.) DIAMETER COMPLETE WITH FRAME AND GRATE; IMP S441 (AREA), IMP S361 (CURB), PYRAMID (IN LANDSCAPED AREAS) OR APPROVED EQUAL.
- PROPOSED CONCRETE STORMWATER AND WASTEWATER SEWERS SHALL CONFORM TO A.S.T.M C-76 (CLASS III). PROPOSED DR35 PVC STORMWATER AND WASTEWATER SEWERS SHALL CONFORM TO CSA 182.1.

HALIFAX REGIONAL MUNICIPALITY STANDARD DETAILS

HRM No. 78 UNDERGROUND CONDUIT

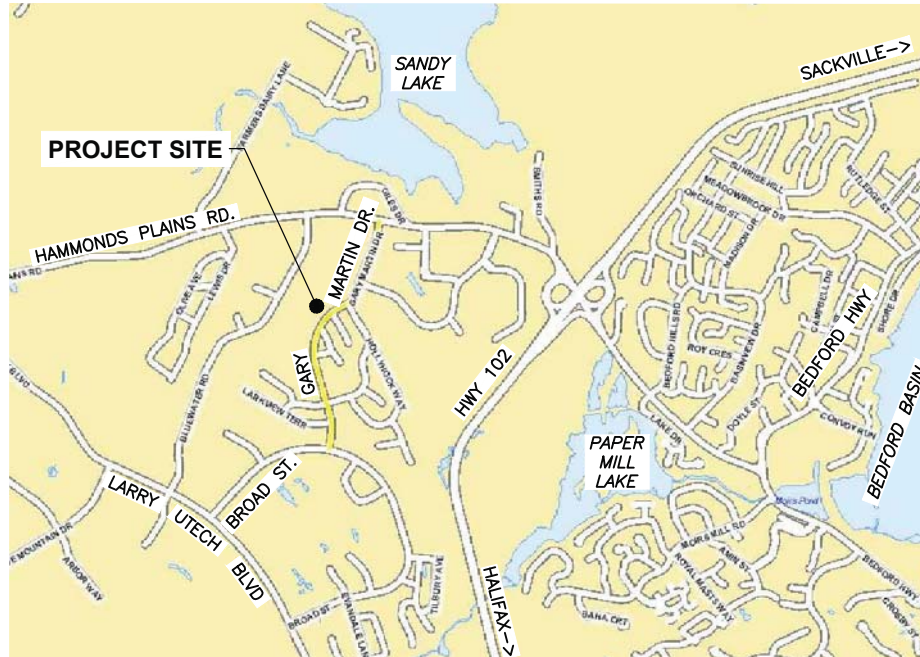
HALIFAX WATER STANDARD DETAILS

HWSD No. 1000 TYPICAL TRENCH PAYMENT WIDTH (WATER, WASTEWATER & STORMWATER SYSTEMS)
1250 REQ. MIN. CLEARANCES BTW U/G CONDUITS AND WATER SYSTEM
1260 REQ. MIN. CLEARANCES BTW U/G CONDUITS AND EX. WATER MAIN/SPRINKLER (PVC SLEEVES)
1400 NATURAL GAS INSTALLATION SEPARATIONS (POLYETHYLENE MAIN)
1440 TRENCH AND BACKFILL CROSS SECTION
1600 PRIVATE 750mm PRECAST OFF STREET CATCH BASIN
1610 SWALE AND UNDER DRAIN DETAILS



STANDARD ASPHALT DETAIL

N.T.S.



KEY PLAN

LEGEND

EXISTING		PROPOSED
25.0	CONTOUR LINE	25.0
0/0 BF	CURB STOP/GATE/BUTTERFLY VALVE	0/0 BF
0	FIRE HYDRANT	0
0	CONCRETE THRUST BLOCK	0
0	SIAMSE CONNECTION	0
0/0/0/0	CATCH BASIN/PIT	0/0/0/0
0/0	CULVERT	0/0
0/0	ROCK LINING/DAM	0/0
0/0	ROCK WALL/RETAINING WALL	0/0
0/0	POWER POLE & ANCHOR/LIGHT STANDARD	0/0
0/0	TREE	0/0
0/0	STREET SIGN/PARKING METER	0/0
131.82	ELEVATION/GRADE	125.00 x / +125.00
0	TEST PIT	0
0/0	DRAINAGE/SWALE FLOW DIRECTION	0/0
W	WATER MAIN/SERVICE	W
SAN	SANITARY MANHOLE & PIPE	SAN
STM	STORM MANHOLE & PIPE	STM
SAN/STM	COMBINED SEWER	SAN/STM
FM	FORCE MAIN	FM
GAS	GAS LINE	GAS
FL	100YR. FLOOD LIMIT	FL
0	GUARD RAIL	0
C	UNDERGROUND CONDUIT	C
0	OVERHEAD WIRES	0
0	PROPERTY LINE/BOUNDARY	0
0	FENCE	0
0	BUILDING	0
0	TOP OF SLOPE	0
0	TOE OF SLOPE	0
0	TREELINE	0
0	LIMITS OF DISTURBANCE	0
SF	SILT FENCE	SF
0	GRAVEL PAD (100-150mm STONE)	0

4	21/05/31	UPDATED BUILDINGS, SURVEY AND PEDWAY	
3	21/05/18	ISSUED FOR CONSTRUCTION	
2	21/05/12	REVISED STORM & GRADING	
1	19/10/07	ISSUED FOR TENDER	
0	19/07/05	ISSUED FOR REVIEW	
No.	YY/MM/DD	Revision Description	Appr'd

Original Signed

SDMM

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IVANY PLACE LINK GARY MARTIN DRIVE, BLOCK 3-1A & 3-1B BEDFORD, NOVA SCOTIA

SITE SERVICING AND GRADING PLAN

Date	JULY 05, 2019	Drawn	S.S.	Project No.	FILE NO. 1-13-32 (36142)
Scale	1:200	Engineer	R. LANDRY	Plan No.	16-1997-4
Reference	--	Approved	R. LANDRY	Drawing Name	C1
Surveyed	SDMM	Sheet	1 OF 1		

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