

2727 CARP ROAD ATCO SITE

SERVICING BRIEF – TEMPORARY BUILDING

July 22, 2019 Novatech Project No: 100149 Report Reference Number: R-2019-131

1.0 BACKGROUND

This Servicing Brief has been prepared in support of a Site Plan amendment application for the property located at 2727 Carp Road. The property is located on the west side of Carp Road, just north of Huntley Creek and directly opposite the existing Reis Business Park.

The purpose of the amendment is to allow the tenant to construct a $576m^2$ (18.90m x 30.48m) temporary building in the northwest corner of their leased site. The proposed building consists of a pre-engineered steel-supported canvas-covered hoop structure that is set upon shipping containers serving as the side walls of the building. The temporary building has no plumbing fixtures and therefore no proposed services (well or septic system connections).

The balance of the site would remain as previously designed, primarily a gravel area to allow for the storage of ATCO trailers as a staging area between rental commitments. Refer to the Site Plan and Landscape Plan for the site layout (**100149-4-SP**).

The grading, drainage and stormwater management design for the site were completed as part of the original Site Plan application which was approved in February 2018. The engineering drawings have been updated to reflect the addition of the temporary building and are discussed below.

2.0 STORMWATER MANAGEMENT

The site was designed and constructed so that the runoff from the parking lot and the gravel storage area would be directed towards the west limit of the parcel. Drainage is captured in a 600mm diameter perforated storm sewer and swale system which has been sized to carry the 1:100 year runoff, uncontrolled. The flow is directed to a private stormwater facility (vegetated dry pond) to the south of the developed area.

The stormwater management strategy is as follows:

- The majority of storm events will infiltrate into the sandy soils.
- Stormwater quality control is provided by a treatment train consisting of infiltration, a vegetated filter strip, grassed swale and a dry pond, resulting in an 'enhanced' level of treatment corresponding to 80% TSS removal.
- The runoff from large storm events is stored in the stormwater facility and controlled to predevelopment levels by means of an outlet structure, for the 5 year and 100 year rainfall events.

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The temporary building does not impact the storm drainage or stormwater management for the site and no changes are proposed to the constructed stormwater management system. The conclusions of the Stormwater Management Brief [Novatech, revised September 19, 2016] prepared for the original Site Plan application remain unchanged.

Revised grading details, adjusted to accommodate the temporary building, and the constructed stormwater works are provided on (Drawing **100149-4- GS**) and the Stormwater Management Plan (Drawing **100149-4-SWM**) included with this Brief.

Prepared by:

NOVATECH

Sonley.

Lisa Bowley, P. Eng. Project Manager | Land Development Engineering

Attachments

- Site Plan and Landscape Plan: 100149-4-SP revision 7
- Grading, Servicing and Erosion & Sediment Control Plan: 100149-4-GS, revision 6
- Stormwater Management Plan: 100149-4-SWM, revision 5

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	Required	Provided
Minimum Lot Width (m)	30.0	184.7
Minimum Lot Area (ha)	0.4	1.97
Minimum Front Yard (m)	10.0	66.3
Minimum Rear Yard (m)	10.0	10.0
Minimum Interior Side Yard (m)	3.0	10.0
Maximum Height (m)	11.0	10.26
Maximum Lot Coverage (%)	25%	2.9%



	1:: 0 5 -	500 10 15 20		
7	ISSUED FOR SITE PLAN AMENDMENT		19/07/19	GLW
6	ISSUED FOR REVISED SITE PLAN APPROVA	L	27/06/2018	GLW
5	OFFICE REMOVED		30/05/2018	GLW
4	REVISED AS PER CITY COMMENTS		19/01/2017	EB
3	REVISED FOR SITE PLAN APPROVAL		20/12/2016	EB
2	ISSUED FOR SITE PLAN APPLICATION ISSUED FOR SITE PLAN APPLICATION		19/09/2016	EB
1			19/05/2016	EB
No.	REVISION		DATE	BY
	NOVATECH Engineers, Planners & Landscape Architects Suite 200, 240 Michael Cowpland Drive Ottawa, Ontario, Canada K2M 1P6	ISSUED	ULY, 2019	
		PROJECT No.	00149-4	
Telephone(613) 254-9643Facsimile(613) 254-5867Websitewww.novatech-eng.com	DRAWING No.)149-4-SP		



After Final Acceptance Inspection/Maintenance Responsibility N/A Owner Owner	NORTH KEY PLAN	ARGIOLAR BOO
-	116.60 DESIGN GRADE (2019)	
	115.81 116:60 AS-BUILT ELEVATION (CAVANACH 2018)	
	AS-BUILT ELEVATION (CAVANAGH 2018)	G LIMITS
	× 115.44 EXISTING ELEVATION 1:100 YR × 115.44 EXISTING ELEVATION	< FENCE
	114.00(D) PROPOSED DITCH ELEVATION Image: Constraint of the second seco	
	PROPOSED SWALE ELEVATION X X X EXISTING FENCE 2.0% GRADE AND DIRECTION X X X ISTING FENCE	
JRRENT	HP EXISTING UTILITY POLI MAX 3:1 SIDESLOPES (UNLESS OTHERWISE NOTED) EXISTING UTILITY POLI	E C/W GUY WIRES
	PROPOSED SILT FENCING (OPSD 219.110)	<u>S:</u>
	DIRECTION OF MAJOR OVERLAND FLOW GRAVEL AREA 150mm GRAN "A"	
r	LD 3 O PROPOSED LANDSCAPE DRAIN (450mmØ) 450mm GRAN "B" TYPE II	
R E CAN	ICD PROPOSED DITCH INLET CATCHBASIN HEAVY DUTY ACCESS (NEW PAVE	MENT)
	→ PROPOSED STORM SEWER 45mm SUPERPAVE 12.5 (TRAFFIC 45mm SUPERPAVE 12.5 (TRAFFIC 150mm GRAN "A"	LEVEL B) LEVEL B)
	B PROPOSED BOLLARD 375mm GRAN "B" TYPE II ASPHALT GRADE PG 58-34	
OF THE IE		
ENCY.	INLET CONTROL DEVICE DATA - DICB 1	PONDING
SINEER R TO	EVENT (CIRCULAR ORIFICE SIZE) OUTLET PIPE FLOW HEAD ELEVATION 1:5 YR 178mm Ø ORIFICE 300mm Ø 63.0 L/s 0.84 m 114.94 m	DEPTH 0.34 m
JRING ITED IN	1:100 YR 178mm Ø ORIFICE 300mm Ø 71.0 L/s 1.07 m 115.17 m	0.57 m
ND UCTION TION IS RAL OR ; APPLY ABILIZE IGINEER, MOVED S OF LUDING OL	 DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CO CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SI DRAWING. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CON BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OF LIABILITY INSURANCE FOR \$5,000,000.00. INSURANCE POLICY TO NAME OWNERS AND ENGINEERS AS CO-INSU RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF MUNICIPAL AUTHORITIES AND BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MA BE DISPOSED OF AT A LICENSED LANDFILL FACILITY. ALL ELEVATIONS ARE GEODETIC. THE EXISTING POINT ELEVATIONS, SITE CONTOURS AND SURVEY INFORMAT PROVIDED BY THOMAS CAVANAGH CONSTRUCTION LIMITED (FILE NAME: 2727 Carp Rd Linework for Topo.dxf). TH SURROUNDING CONTOUR INFORMATION BEYOND THE SITE IS FROM CITY OF OTTAWA MAPPING. REFER TO GEOTECHNICAL INVESTIGATION REPORT NO. 63978.96 (DATED APRIL 27, 2016) PREPARED BY HOUL ENGINEERING FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL IN REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PLACEMENT OF THE GRANULAR MATERIAL. 	MMENCING HOWN ON THIS STRUCTION. PERATIONAL IRED. ROAD DENGINEER. SE INSTRUCTED TERIAL SHALL TION WAS HE E CHEVRIER SPECTION PRIOR TO
	 REFER TO THE SITE PLAN AND LANDSCAPE PLAN FOR HARD SURFACE AREAS AND DIMENSIONS. SAW CUT AND KEYGRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA 	STANDARDS
OF JRING ME		
EAS M	ASBUILTS: 1. THE CONTRACTOR IS TO PROVIDE THE CONSULTANT WITH A PLAN INDICATING ALL OF THE APPLICABLE GRADI SERVICING AS-BUILT INFORMATION SHOWN ON THIS PLAN. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATE LENGTHS, SLOPES, INVERT AND T/G ELEVATIONS, STRUCTURE LOCATIONS AND ANY ALIGNMENT CHANGES AS ASBUILT ELEVATION OF EVERY DESIGN GRADE SHOWN ON THIS PLAN.	NG AND RIAL, SIZES, WELL AS THE
	GRADING NOTES:	
	1. ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE PROPO AREAS.	SED PAVED
ES	2. EXPOSED SUBGRADES IN PROPOSED PAVED AREAS SHOULD BE PROOF ROLLED WITH A LARGE STEEL DRUM R INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF GRANULARS. ANY SOFT AREAS E FROM THE PROOF ROLLING SHOULD BE SUBEXCAVATED AND REPLACED WITH SUITABLE MATERIAL THAT IS FRO COMPATIBLE WITH THE EXISTING SOILS.	OLLER AND VIDENT OST
ASS I GEOTEXTILE	 THE GRANULAR BASE SHOULD BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY I VALUE. ANY ADDITIONAL GRANULAR FILL USED BELOW THE PROPOSED PAVEMENT SHOULD BE COMPACTED TO 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE. MINIMUM OF 2% GRADE FOR ALL GRASS AREAS LINE FSS OTHERWISE NOTED 	DENSITY DAT LEAST
	5. REFER TO THE SITE PLAN FOR PLANTING AND OTHER LANDSCAPE FEATURE DETAILS.	
	2727 CARP ROAD (ATCO TRAILER SITE LEASE ARD OTTAWA. ONTARIO	EA ONLY)
	Engineers Planners & Landscape Architecte	ROJECT No.
	Suite 200, 240 Michael Cowpland Drive Ottawa, Ontario, Canada K2M 1P6	100149-
	Telephone (613) 254-9643 GRADING, SERVICING & EROSION	DE\/#/
	Website www.novatech-eng.com AND SEDIMENT CONTROL PLAN	

100149-4-GS



STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

E-MAIL: mnesrallah@thomascavanagh.ca

				SCALE	DESIGN	FOR REVIEW ONLY	
				-	CS / SM		
5.	ISSUED FOR SITE PLAN AMENDMENT APPLICATION (NO CHANGES)	JUL 19/19	SMG	1:500	BH		
4.	ISSUED FOR REVISED SITE PLAN APPROVAL	JUN 27/18	SM		CM		S
3.	REVISED PER CITY COMMENTS	SEPT 19/16	SM	4,500			
2.	ISSUED FOR CLIENT REVIEW	MAY 27/16	SM	- 1:500 0 5 10 15 20	CS		T F
1.	ISSUED FOR SITE PLAN APPLICATION	MAY 20/16	SM	▎▆▆▆▆▆▋	APPROVED		, v
No.	REVISION	DATE	BY		SG		

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