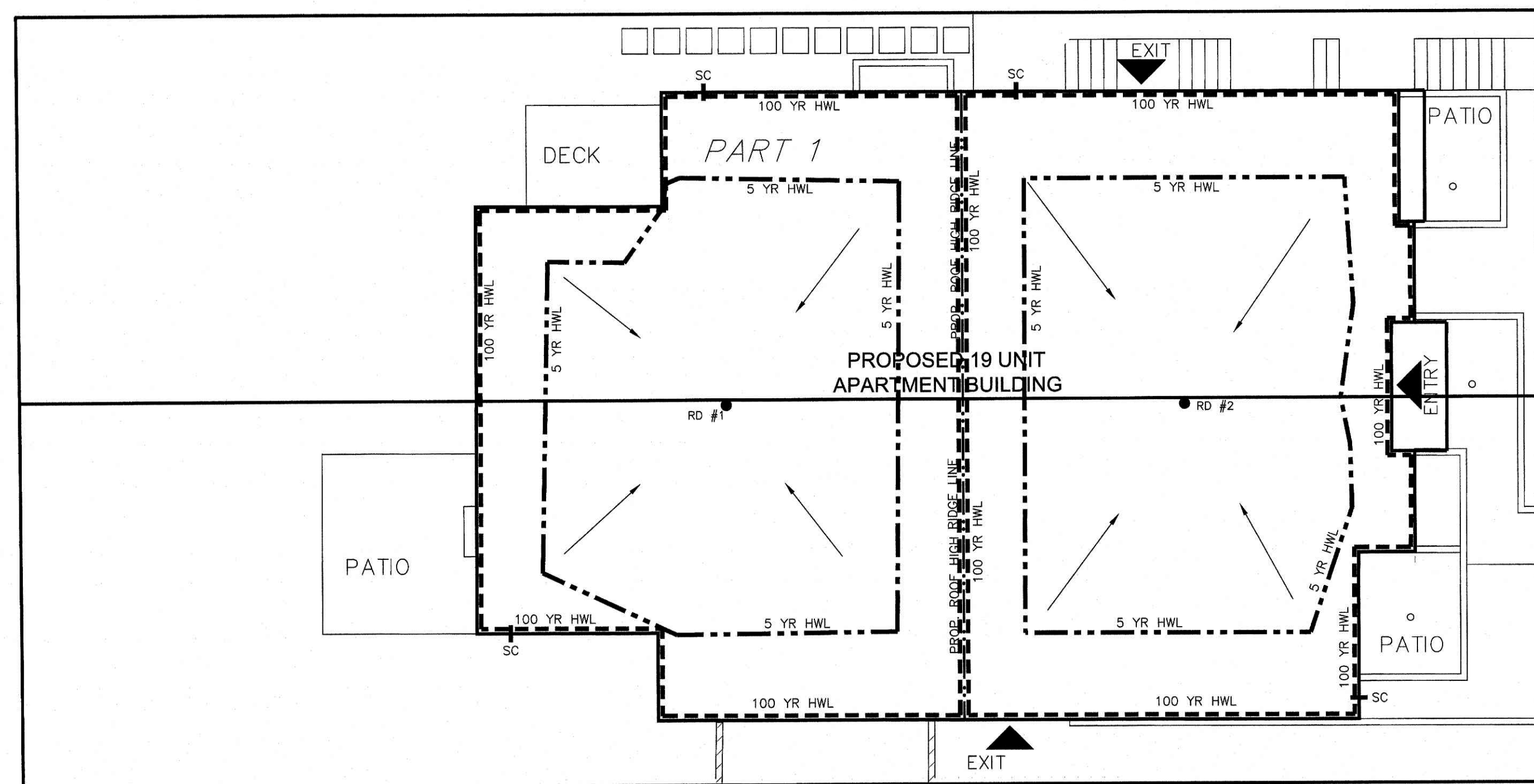



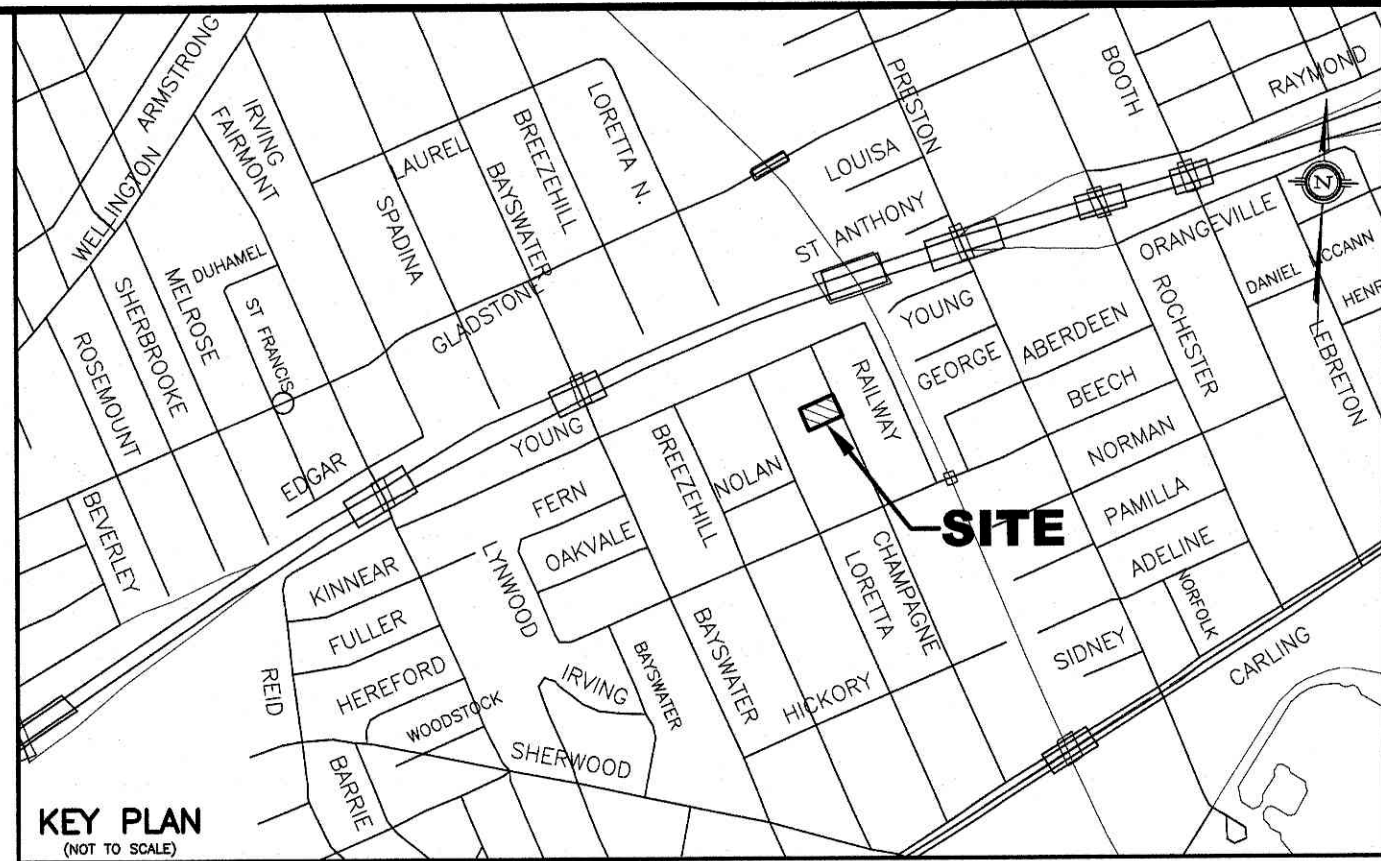
2012(Pan&Sat)
LOCAL BENCHMARK
on Utility Pole
(2 Nails)
Elevation=67.01




DOUGLAS JAMES, MCIP, RPP
MANAGER, DEVELOPMENT REVIEW - CENTRAL
PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

APPROVED
By Jamesdo at 2:47 pm, Jun 14, 2019

CHAMPAGNE AVENUE



LEGEND

- 100 YR HIGH WATER LEVEL (150mm ABOVE THE ROOF DRAIN)
- 5 YR HIGH WATER LEVEL (100mm ABOVE THE ROOF DRAIN)
- RD PROPOSED ROOF DRAIN LOCATION
- SC PROPOSED ROOF SCUPPER LOCATION
- PROPOSED ROOF SURFACE DRAINAGE FLOW DIRECTION
- PROPOSED HIGH RIDGE LINE

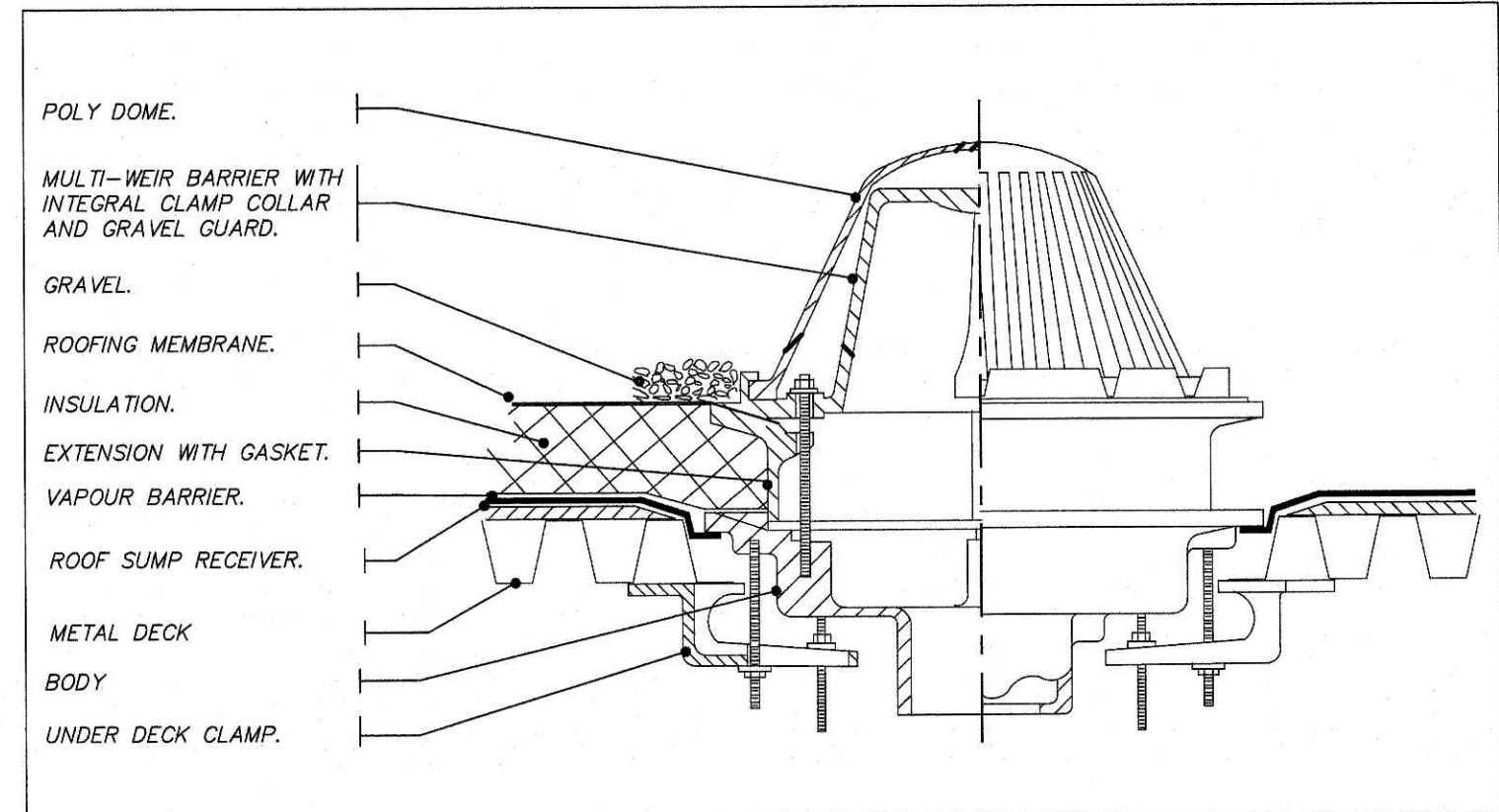
NOTES

- STORMWATER MANAGEMENT NOTES
ROOF DRAIN DETAILS
MODEL TYPE: WATTS MODEL RD-100 WITH ACCUTROL CONTROL WEIR, ONE SLOT OR EQUAL
NUMBER OF CONTROL DEVICES: 1 CONTROLLED ROOF DRAIN PER DESIGNATED ROOF AREA FOR SWM ATTENUATION
FLOW PER ROOF DRAIN: 20.0 U.S. GAL/MIN. OR 1.26 L/S
TOTAL FLOW FROM FLAT ROOFTOP OF BUILDING AT MAXIMUM HEAD OF 135mm PER DRAIN AT THE (2) PROPOSED DRAINS: 2.52 L/S
DEPTH AND VOLUME:

| ROOF AREA No. | DEPTH (mm) | | VOLUME (m ³) | |
|---------------|------------|--------|--------------------------|--------|
| | 5 YR | 100 YR | 5 YR | 100 YR |
| 1 | 110 | 150 | 3.11 | 7.70 |
| 2 | 110 | 150 | 3.02 | 7.58 |

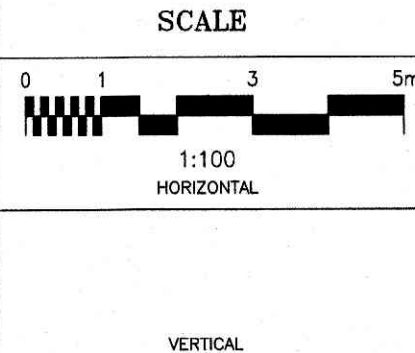
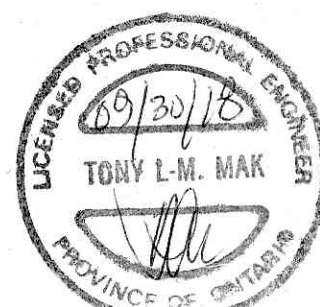
SCUPPER LOCATION: AS SHOWN ON THIS DRAWING
5 YEAR ELEVATION: 100mm ABOVE THE ROOF DRAIN
100 YEAR ELEVATION: 150mm ABOVE THE ROOF DRAIN
- EACH ROOF DRAIN SHALL BE SIZED FOR A RELEASE RATE OF 20 U.S. GAL/MIN. OR 1.26 L/S. THE OWNER'S MECHANICAL ENGINEER SHALL SPECIFY THE REQUIRED ROOF DRAIN TYPE AND MODEL No. AND PROVIDE THE NECESSARY INFORMATION TO THE CITY OF OTTAWA FOR THEIR RECORDS TO ENSURE PROPER RELEASE RATE FOR STORMWATER MANAGEMENT COMPLIANCE.
- ROOF PITCH IS ASSUMED TO HAVE 1.7% (MIN.) SLOPE.
- ROOF SCUPPERS ARE RECOMMENDED TO BE INSTALLED 0mm ABOVE EDGE OF ROOFTOP ELEVATION FOR EMERGENCY OVERFLOW PURPOSES AT ROOF AREA #1 AND #2.
- SEE STORM DRAINAGE REPORT No. R-818-54 DATED SEPTEMBER 2018 FOR DETAILS ALSO.
- PROPOSED ROOF DRAINS AND SCUPPER LOCATIONS SHOWN ON THIS PLAN SHALL BE REVIEWED BY THE OWNER AND OWNER'S ARCHITECT FOR APPROVAL.
- THE OWNER'S ARCHITECT AND STRUCTURAL ENGINEER SHALL ENSURE THAT THE ADDITIONAL STORMWATER STORAGE VOLUME FROM STORMWATER MANAGEMENT MEASURES ARE ACCOUNTED FOR IN THE STRUCTURAL DESIGN OF AND WATERPROOFING OF ROOF AREA #1 AND #2 AND ANY OF THE SUPPORTING STRUCTURES THAT MAY BE AFFECTED BY THE STORED WATER.
- ROOF DRAIN #1 AND #2 SHALL OUTLET INTO THE DESIGNATED 125mm \varnothing PVC STORMWATER PIPE AS SHOWN ON DWG. No. 818-54, G-1. THE BUILDING WEEPING TILE WATER WILL OUTLET BY A SEPARATE 150mm \varnothing PVC STORM PIPE WHICH OUTLETS TO THE EX. 1200mm \varnothing DIAMETER STORM SEWER.
- FOR GRADING AND SERVICING DETAILS OF THIS SITE, REFER TO DWG. No. 818-54, G-1.

TYPICAL:
3" ROOF DRAIN ABOVE, "WATTS" MODEL: RD-100 WITH ACCUTROL CONTROL WEIR, ONE SLOT. DRAIN TO BE c/w WEIR, BARRIER, INTERNAL CLAMP COLLAR AND GRAVEL GUARD. BOTTOM OF WEIR TO BE FLUSH WITH ROOF. CAST IRON BODY, ALUMINUM WEIR, STAINLESS STEEL GRID AND POLDOME. COORDINATE INSTALLATION ON SITE.



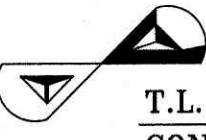
TYPICAL ROOF DRAIN DETAIL
N.T.S.

| NO. | REVISION | DATE | BY |
|-----|----------|------|----|
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| | |
|----------|--------|
| DESIGN | T.L.M. |
| CHECKED | T.L.M. |
| DRAWN BY | G.U. |
| CHECKED | T.L.M. |
| APPROVED | T.L.M. |

PROJECT
16-20 CHAMPAGNE AVENUE SOUTH
LOT 6 BLOCK E
REGISTERED PLAN 146
CITY OF OTTAWA
DRAWING TITLE
PROPOSED ROOFTOP
STORMWATER MANAGEMENT PLAN

| | | |
|--|----------------|-------------|
|  T.L. MAK ENGINEERING CONSULTANTS LTD. CONSULTING ENGINEERS | | |
| PROJECT No. | DATE | DRAWING No. |
| 818-54 | SEPTEMBER 2018 | SWM-1 |