

NOTES

1. 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: 10.0 U.S. GAL/MIN. OR 0.63 L/S

TOTAL FLOW FROM FLAT ROOFTOP OF BUILDING AT MAXIMUM HEAD OF 150mm PER DRAIN AT THE (3) PROPOSED DRAINS: 1.89 L/S

DEPTH AND VOLUME:

ROOF AREA No.	DEPTH (mm)		VOLUME (cu.m.)	
	5 YR	100 YR	5 YR	100 YR
1	100	150	0.66	2.66
2	50	100	0.098	0.83
3	100	150	1.63	5.19

SCUPPER LOCATION: AS SHOWN ON THIS DRAWING

5 YEAR ELEVATION: 100mm ABOVE ROOF DRAIN #1 AND #3; 50mm ABOVE ROOF DRAIN #2

100 YEAR ELEVATION: 150mm ABOVE ROOF DRAIN#1 AND #3; 100mm ABOVE ROOF DRAIN #2

- EACH ROOF DRAIN SHALL BE SIZED FOR A RELEASE RATE OF 10 U.S. GAL/MIN. OR 0.63 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 1.8% (MIN.) SLOPE.

- ROOF SCUPPERS ARE RECOMMENDED TO BE INSTALLED 0mm ABOVE EDGE OF ROOFTOP ELEVATION FOR EMERGENCY OVERFLOW PURPOSES AT ROOF AREA #1 TO #3 INCLUSIVE.

- SEE LATEST REVISION OF STORM DRAINAGE REPORT No. R-817-61 DATED NOVEMBER 2017 FOR DETAILS ALSO.

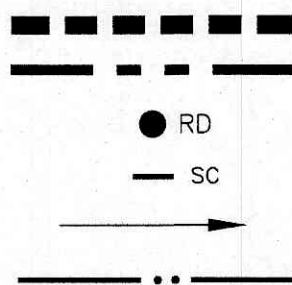
2. PROPOSED ROOF DRAINS AND SCUPPER LOCATIONS SHOWN ON THIS PLAN SHALL BE REVIEWED BY THE OWNER AND OWNER'S HOUSE DESIGNER FOR APPROVAL.

3. THE OWNER'S HOUSE DESIGNER 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 TO #3 INCLUSIVE AND ANY OF THE SUPPORTING STRUCTURES THAT MAY BE AFFECTED BY THE STORED WATER.

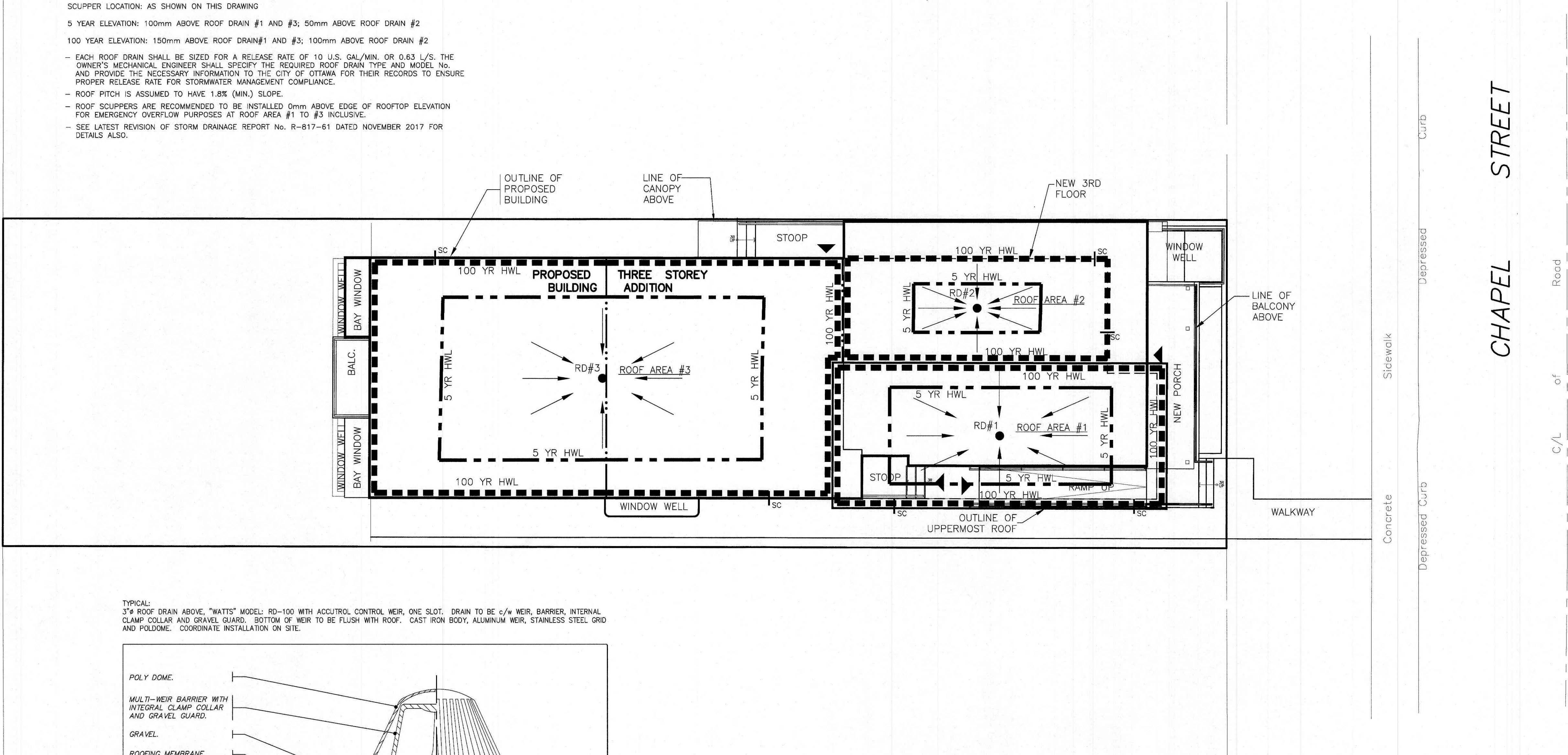
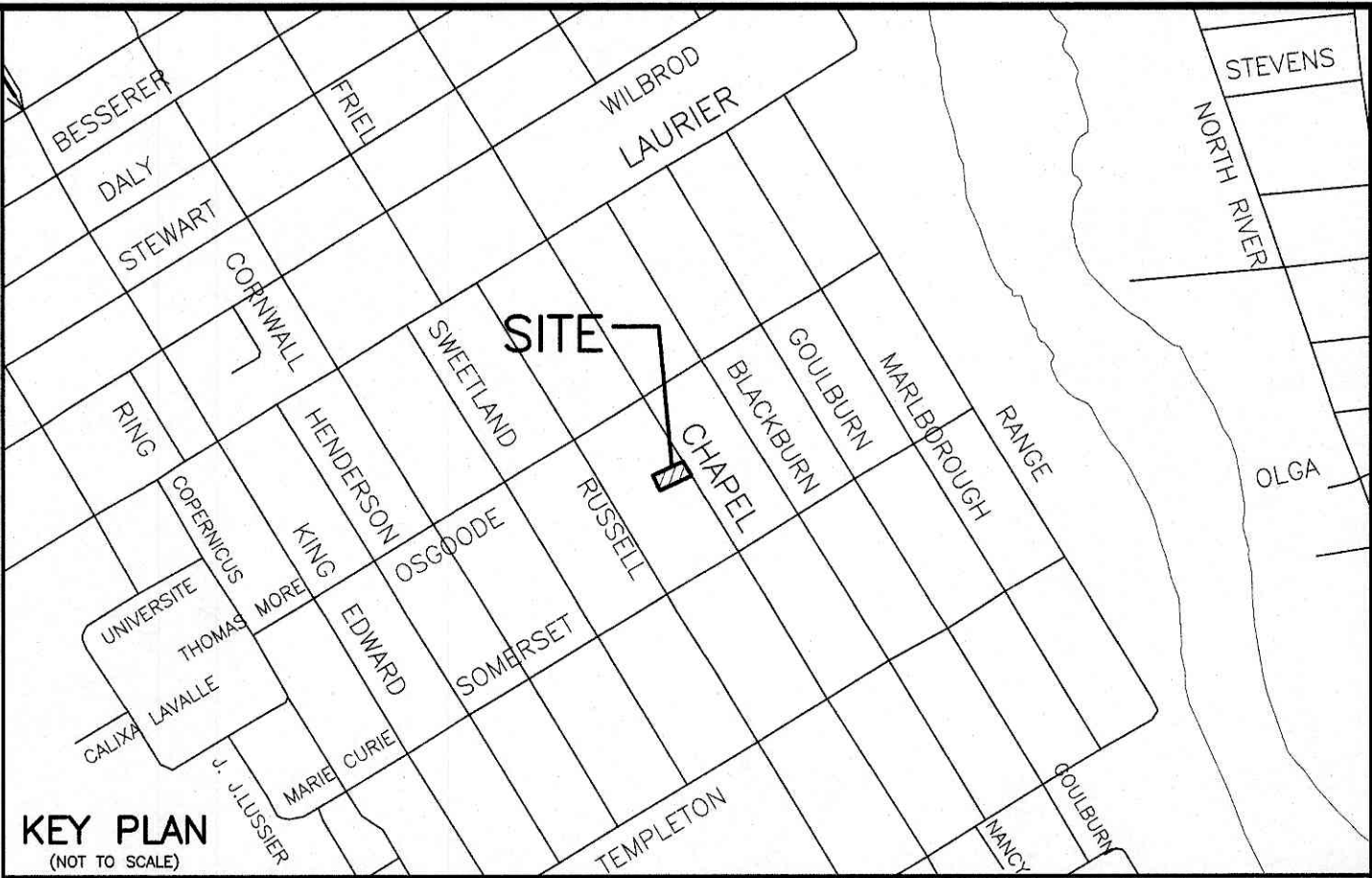
4. ROOF DRAIN #1 TO #3 INCLUSIVE SHALL OUTLET INTO THE DESIGNATED 125mmØ PVC STORMWATER PIPE AS SHOWN ON THE PROPOSED GRADING AND SERVICING PLAN. THE BUILDING WEEPING TILE WATER WILL OUTLET TO A SEPARATE 150mmØ PVC STORM LATERAL AS SHOWN ON THE PROPOSED GRADING AND SERVICING PLAN (DWG. No. 817-61, G-1).

5. FOR GRADING AND SERVICING DETAILS OF THIS SITE, REFER TO DWG. No. 817-61, G-1.

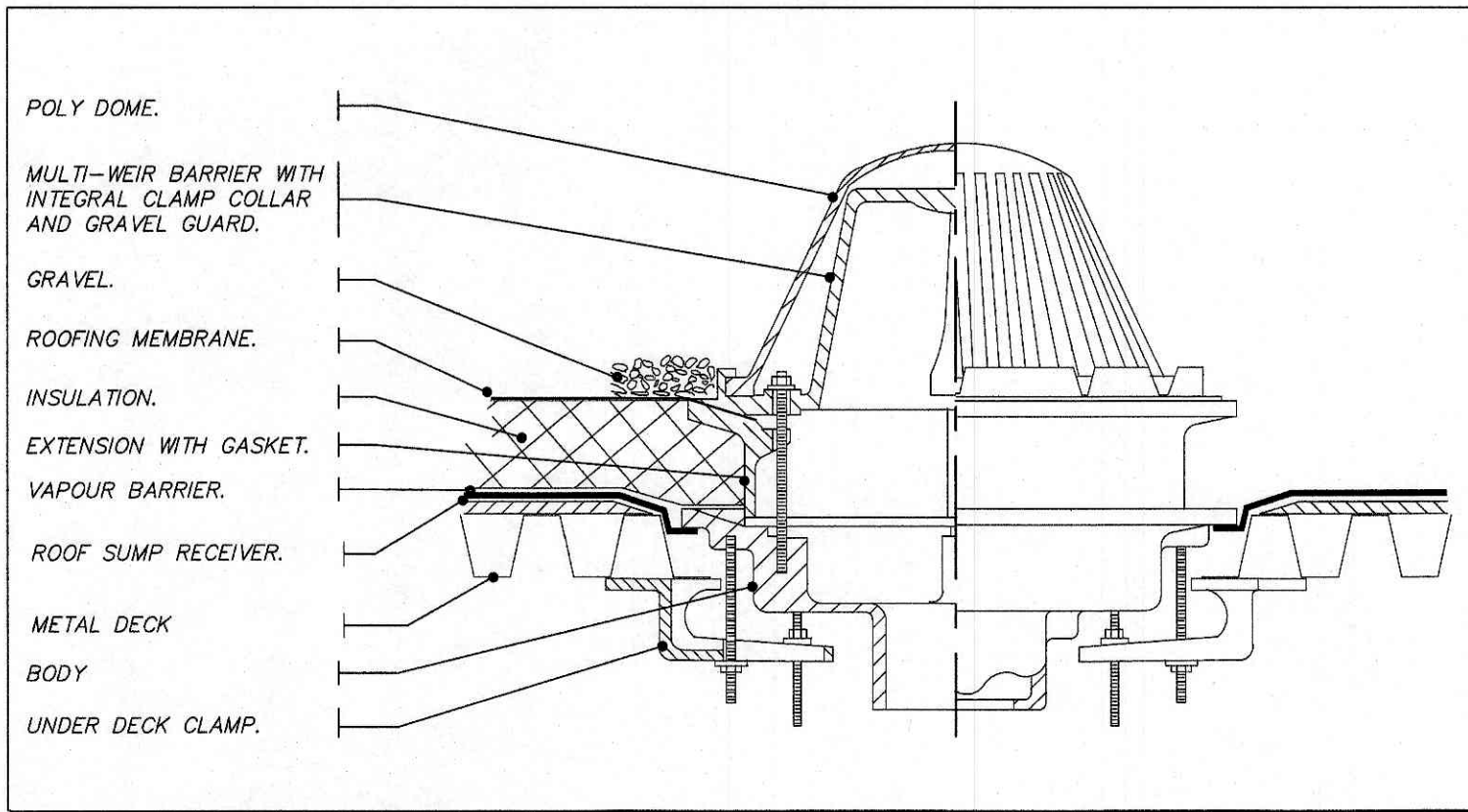
LEGEND



100 YR HIGH WATER LEVEL  
5 YR HIGH WATER LEVEL  
PROPOSED ROOF DRAIN LOCATION  
PROPOSED ROOF SCUPPER LOCATION  
PROPOSED ROOF SURFACE DRAINAGE FLOW DIRECTION  
PROPOSED HIGH RIDGE LINE



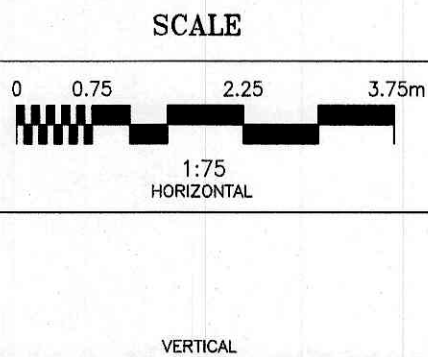
TYPICAL:  
3" ROOF DRAIN ABOVE, "WATTS" MODEL RD-100 WITH ACCUTROL CONTROL WEIR, ONE SLOT. DRAIN TO BE c/w WEIR, BARRIER, INTERNAL CLAMP COLLAR AND GRAVEL GUARD. BOTTOM OF WEIR TO BE FLUSH WITH ROOF. CAST IRON BODY, ALUMINUM WEIR, STAINLESS STEEL GRID AND POLDOME. COORDINATE INSTALLATION ON SITE.



TYPICAL ROOF DRAIN DETAIL  
N.T.S.

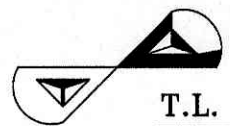
DOUGLAS JAMES, MCIP, RPP  
MANAGER, DEVELOPMENT REVIEW - CENTRAL  
PLANNING, INFRASTRUCTURE & ECONOMIC  
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

NO.	REVISION	DATE	BY
2	REVISIONS AS PER CITY'S REVIEW COMMENTS OF JAN. 18, 2019	01/31/19	TLM
1	REVISIONS AS PER CITY'S REVIEW COMMENTS OF MAY 31, 2018	10/12/18	TLM



DESIGN	T.L.M.
CHECKED	T.L.M.
DRAWN BY	G.U.
CHECKED	T.L.M.
APPROVED	T.L.M.

PROJECT	368 CHAPEL STREET NORTH HALF OF LOT 17 (WEST CHAPEL STREET) REGISTERED PLAN 58319 CITY OF OTTAWA
DRAWING TITLE	PROPOSED ROOFTOP STORMWATER MANAGEMENT PLAN



T.L. MAK ENGINEERING CONSULTANTS LTD.  
CONSULTING ENGINEERS

PROJECT No.	DATE	DRAWING No.
817-61	NOVEMBER 2017	SWM-1