

LEGEND

| | | | |
|-----|--------------------------------------|---------|---|
| — | PROPERTY LINE | — | EXISTING CONCRETE CURB |
| — | PROPOSED STORM SERVICE | COMB MH | EXISTING COMBINED MANHOLE & SEWER |
| RD | CONTROLLED FLOW ROOF DRAIN | CB | EXISTING CATCH-BASIN C/W CATCH-BASIN LEAD |
| --- | DRAINAGE AREA LIMITS | ○ | EXISTING TREES / VEGETATION |
| --- | APPROXIMATE PONDING LIMITS | EX UP | EXISTING UTILITY POLE C/W GUY WIRES |
| ○ | POST-DEVELOPMENT AREA ID | --- | EXISTING FENCE |
| ○ | POST-DEVELOPMENT DRAINAGE AREA (HA) | ← | DIRECTION OF MAJOR OVERLAND FLOW |
| ○ | 1.5 YEAR WEIGHTED RUNOFF COEFFICIENT | | |

- GENERAL NOTES:**
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
 - DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
 - OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.
 - BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$2,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
 - COMPLETE ALL WORKS IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS USING THE CURRENT GUIDELINES, BYLAWS AND STANDARDS INCLUDING MATERIALS OF CONSTRUCTION, DISINFECTION AND ALL RELEVANT REFERENCES TO OPSB, OPSD & AWWA GUIDELINES - ALL CURRENT VERSIONS AND 'AS AMENDED'.
 - RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF MUNICIPAL AUTHORITIES.
 - REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
 - ALL ELEVATIONS ARE GEODETIC.
 - REFER TO GEOTECHNICAL INVESTIGATION PG4975-1, DATED JULY 04, 2019, PREPARED BY PATERSON GROUP INC. FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL.
 - REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARD SURFACED AREAS AND DIMENSIONS.
 - REFER TO THE 'DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT' (R-2019-155) PREPARED BY NOVATECH.
 - SAW CUT AND KEYGRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE-IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).
 - PRIOR TO COMMENCEMENT OF ANY WORKS, CONTRACTOR TO OBTAIN SERVICE LOCATES BY CALLING ONTARIO ONE CALL AT 1-800-400-2255

ROOF DRAIN TABLE: AREA R-1 TO R-4 (ROOF DRAINS 1, 2, 3 & 4)

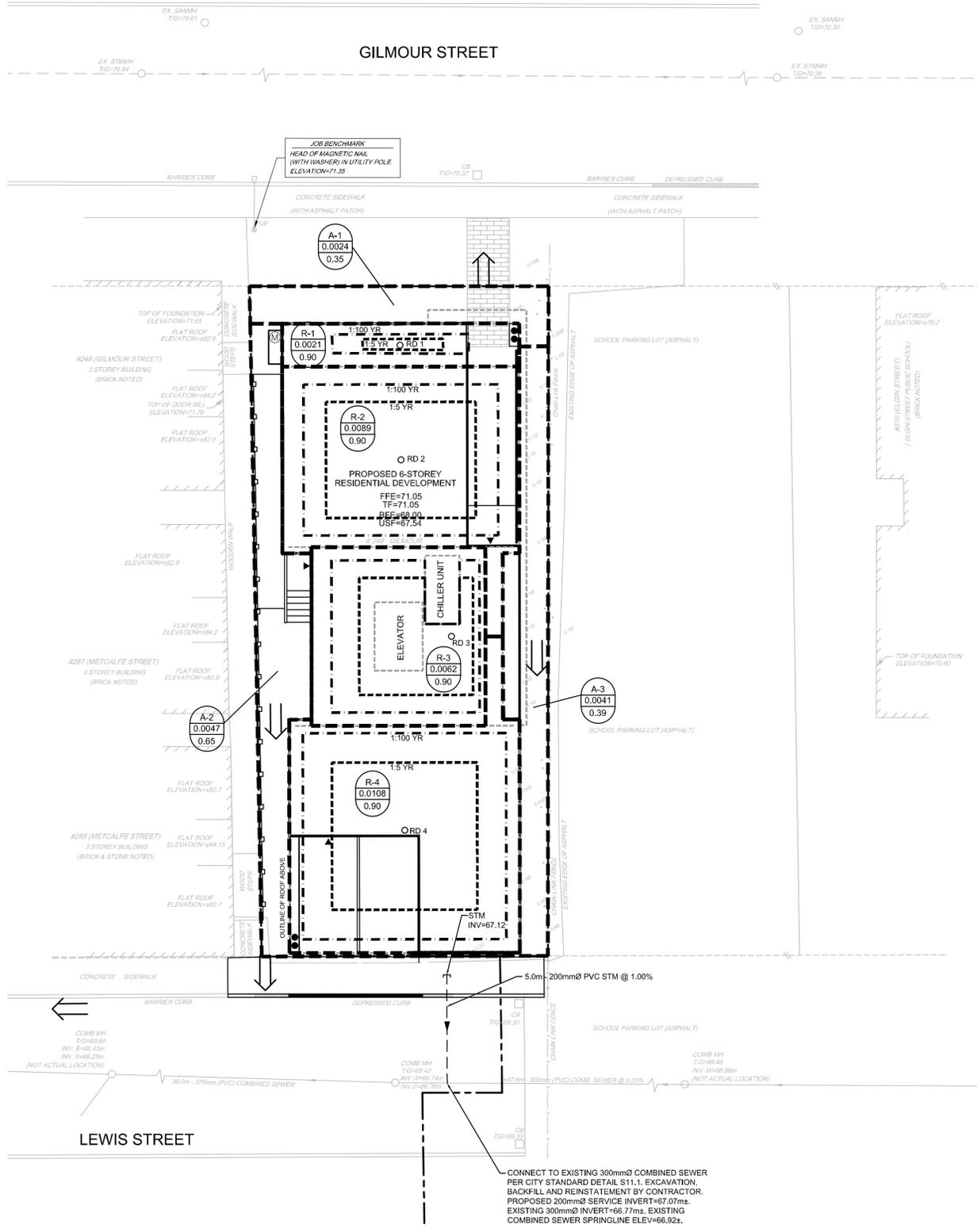
| AREA ID | ROOF DRAIN No. (WATTS MODEL #) | ROOF DRAIN OPENING SETTING | 1.5 YEAR RELEASE RATE | APPROX. 5 YR PONDING DEPTH | 1:100 YEAR RELEASE RATE | APPROX. 100 YR PONDING DEPTH |
|---------|--------------------------------|----------------------------|-----------------------|----------------------------|-------------------------|------------------------------|
| R-1 | RD 1 (RD-100-A-ADJ) | 1/4 EXPOSED | 0.63 L/s | 5 cm | 0.75 L/s | 9 cm |
| R-2 | RD 2 (RD-100-A-ADJ) | 1/4 EXPOSED | 0.71 L/s | 10 cm | 0.87 L/s | 13 cm |
| R-3 | RD 3 (RD-100-A-ADJ) | 1/4 EXPOSED | 0.71 L/s | 10 cm | 0.87 L/s | 13 cm |
| R-4 | RD 4 (RD-100-A-ADJ) | 1/4 EXPOSED | 0.71 L/s | 10 cm | 0.87 L/s | 14 cm |

* REFER TO THE 'DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT' (R-2019-155) PREPARED BY NOVATECH FOR DRAINAGE AREA IDENTIFIERS AND STORMWATER MANAGEMENT DETAILS.
 **ALL CONTROLLED FLOW ROOF DRAINS FOR THE PROPOSED BUILDING TO BE WATTS ADJUSTABLE ACCUTROL ROOF DRAINS.

SITE FLOWS & STORMWATER MANAGEMENT TABLE

| DESIGN EVENT | PRE-DEVELOPMENT CONDITIONS | | POST-DEVELOPMENT CONDITIONS | | | | REDUCTION IN FLOW (L/s OR %) | |
|--------------|----------------------------|------------------------------|-----------------------------|----------------|----------------|------------------|------------------------------|------------------|
| | UNCONTROLLED FLOW (L/s) | ALLOWABLE RELEASE RATE (L/s) | A-1 FLOW (L/s) | A-2 FLOW (L/s) | A-3 FLOW (L/s) | R 1-4 FLOW (L/s) | | TOTAL FLOW (L/s) |
| 1.5 YR | 3.5 | 10.0 | 0.24 | 0.88 | 0.46 | 2.76 | 4.34 | N/A |
| 1:100 YR | 7.1 | 10.0 | 0.48 | 1.70 | 0.92 | 3.36 | 6.46 | 0.64 OR 9% |

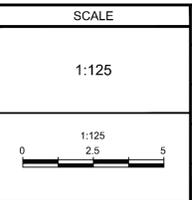
* REDUCED FLOW COMPARED TO PRE-DEVELOPMENT UNCONTROLLED CONDITIONS



NOTE:
 THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

OWNER INFORMATION
 EPON ENTERPRISES LTD.
 1566 LAPERRIERE AVE.
 OTTAWA, ONTARIO, K1Z 7T2
 MR. DOMENIC IDONE
 PHONE: (613) 325-3416
 IDONEDOM@GMAIL.COM

| No. | REVISION | DATE | BY |
|-----|----------------------------------|-----------|-----|
| 2 | REVISED PER CITY COMMENTS | APR 16/20 | FST |
| 1 | ISSUED FOR SITE PLAN APPLICATION | NOV 18/19 | FST |



FOR REVIEW ONLY

FST / LSC

CHECKED: FST

DRAWN: LSC

CHECKED: FST

APPROVED: FST

NOVATECH
 Engineers, Planners & Landscape Architects
 Suite 200, 240 Michael Cowpland Drive
 Ottawa, Ontario, Canada K2M 1P6

Telephone: (613) 254-9643
 Facsimile: (613) 254-5867
 Website: www.novatech-eng.com

LOCATION
 CITY OF OTTAWA
 246 GILMOUR STREET

DRAWING NAME
 STORMWATER MANAGEMENT PLAN

PROJECT No.
 118221

REV # 2

DRAWING No.
 118221-SWM

Plan # 18085

M:\2018\118221\CAD\Design\118221-SWM.dwg, SWM, Apr 17, 2020 - 7:44am, drouat

D07-12-19-0196