

PIPE CROSSING TABLE			
CROSSING	LOWER PIPE	HIGHER PIPE	CLEARANCE
1	200mm $\varnothing$ SAN OBV = 84.54	250mm $\varnothing$ STM INV = 85.12	$\pm 0.58m$
2	250mm $\varnothing$ STM OBV = 85.38	200mm $\varnothing$ WM INV = 85.70	$\pm 0.32m$
3	250mm $\varnothing$ STM OBV = 85.39	200mm $\varnothing$ WM INV = 85.67	$\pm 0.28m$

ACCUTROL RD-100-A-ADJ ROOF DRAIN TABLE					
ROOF DRAIN ID	WEIR SETTING	5-YEAR EVENT		100-YEAR EVENT	
		HEAD	FLOW RATE	HEAD	FLOW RATE
RD-1	OPEN	0.12m	1.30 L/s	0.15m	1.50 L/s
RD-2	OPEN	0.12m	1.30 L/s	0.15m	1.50 L/s
RD-3	OPEN	0.12m	1.30 L/s	0.15m	1.50 L/s
RD-4	OPEN	0.12m	1.30 L/s	0.15m	1.50 L/s
RD-5	OPEN	0.12m	1.30 L/s	0.15m	1.50 L/s
RD-6	OPEN	0.12m	1.30 L/s	0.15m	1.50 L/s
RD-7	OPEN	0.12m	1.30 L/s	0.15m	1.50 L/s
RD-8	OPEN	0.12m	1.30 L/s	0.15m	1.50 L/s
RD-9	OPEN	0.12m	1.30 L/s	0.15m	1.50 L/s
RD-10	OPEN	0.12m	1.30 L/s	0.15m	1.50 L/s
RD-11	OPEN	0.12m	1.30 L/s	0.15m	1.50 L/s
RD-12	OPEN	0.12m	1.30 L/s	0.15m	1.50 L/s
RD-13	OPEN	0.12m	1.30 L/s	0.15m	1.50 L/s

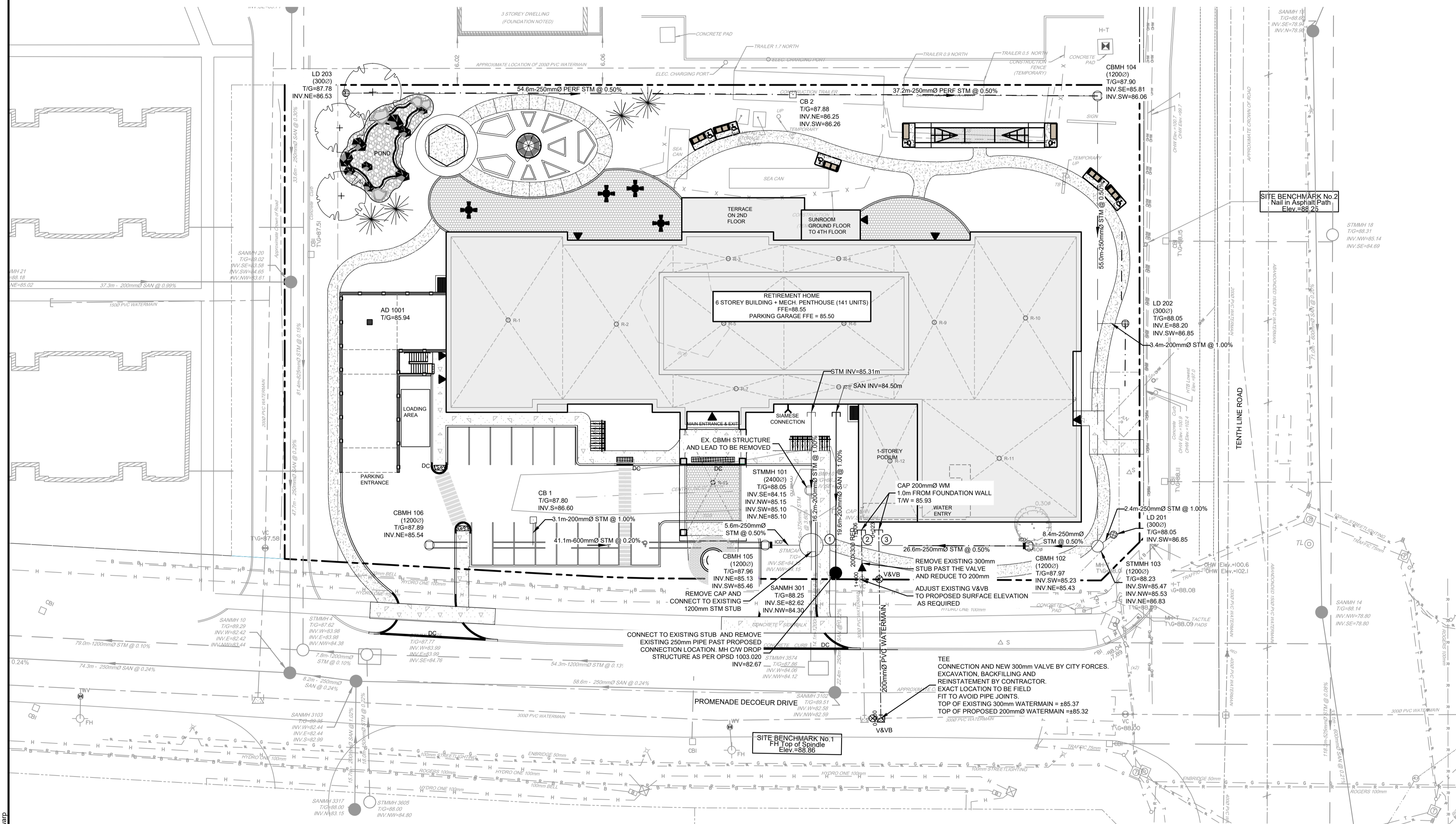
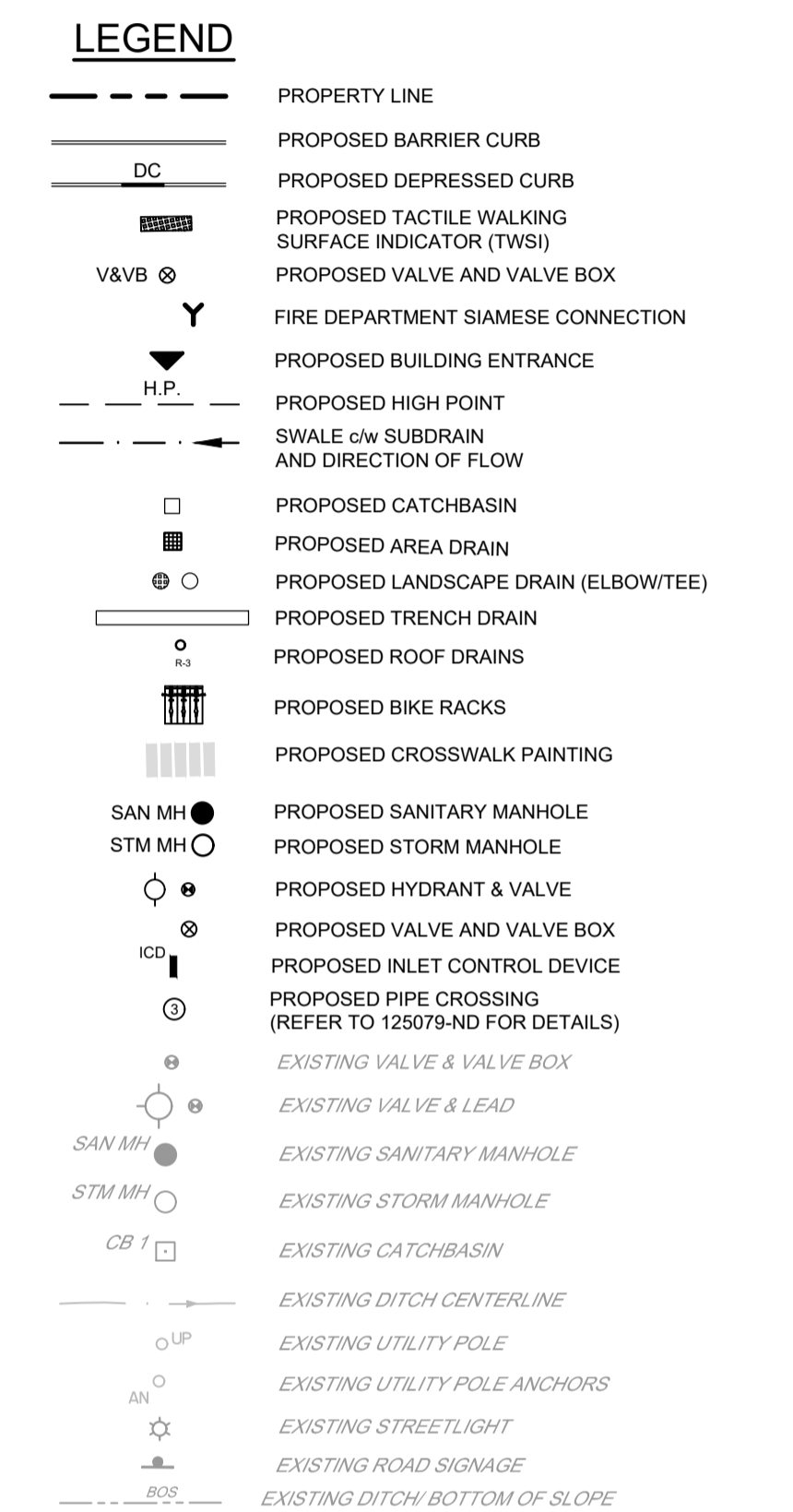
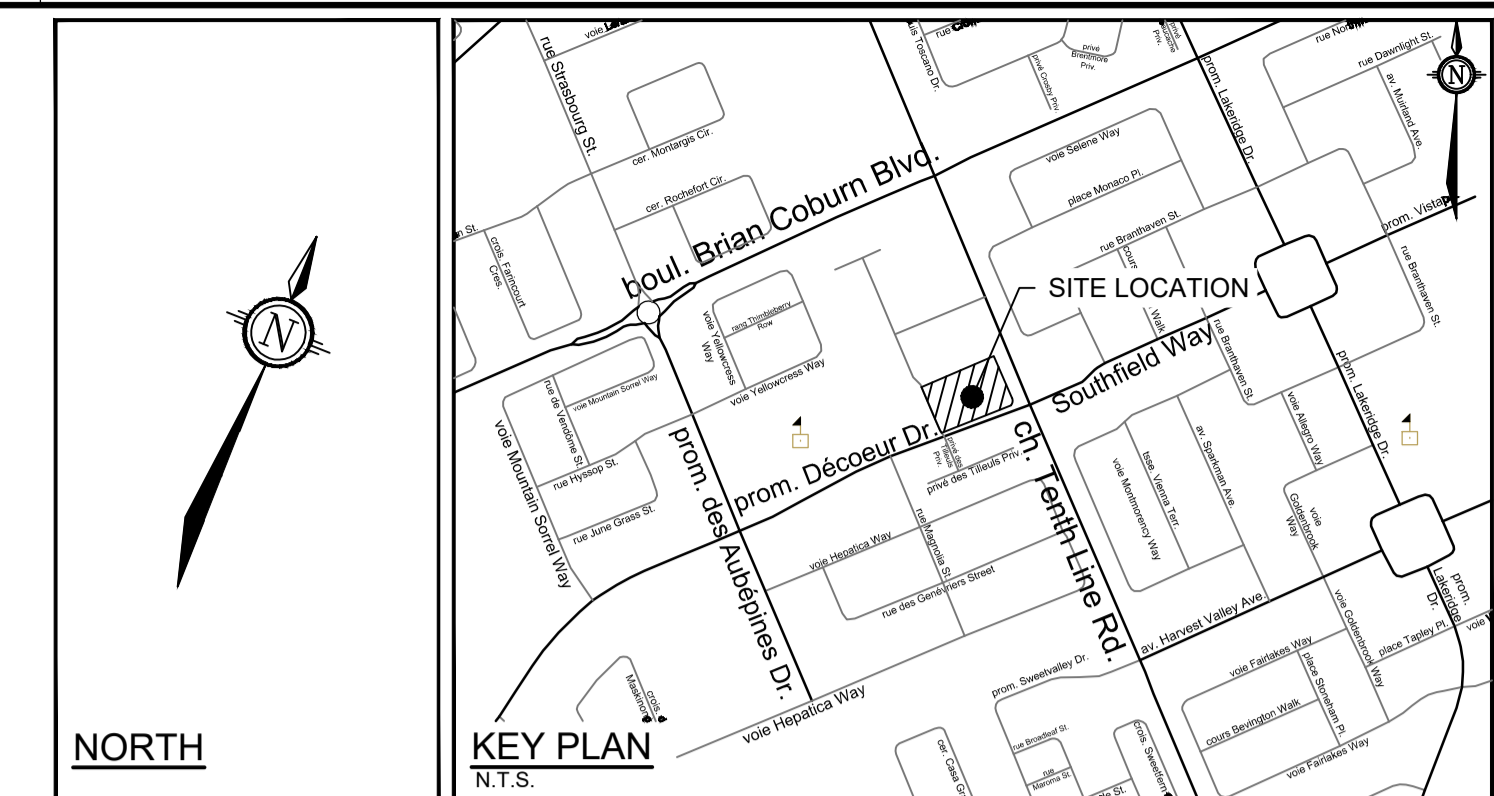
ICD SIZING AND FLOWS						
STRUCTURE	ICD SIZE	ICD INVERT (m)	T/G (m)	100-yr HGL (m)	100-yr HEAD (m)	100-yr RELEASE RATE (L/s)
CBMH 105	127mm PLATE	85.13	87.96	86.82	1.62	44.00
CBMH 102	127mm PLATE	85.23	87.97	87.02	1.73	45.5

\* THE DESIGN HEAD IS CALCULATED BASED ON THE CENTRE OF THE ORIFICE AT THE BOTTOM OF THE PIPE

- IN LIEU OF A DETAILED ROOF PLAN, FOR THE INTERIM IT HAS BEEN ASSUMED THAT THE ROOF (AREA R-00 AS DEPICTED ON DRAWING 125079-SWM) WILL CONTAIN 13 CONTROLLED ROOF DRAINS RELEASING AT A MAXIMUM OF 1.5L/S IN THE 100-YR, 1.3 L/S IN THE 5-YR AND 1.0L/S IN THE 2-YEAR STORM EVENTS
- ONCE DETAILED ROOF PLANS ARE RECEIVED THE EXACT FLOW PER ROOF DRAIN WILL BE DETERMINED, AND THE CALCULATIONS WILL BE UPDATED ACCORDINGLY

PROPOSED 200mm $\varnothing$ WATERMAIN (0+000.0)			
STATION	SURFACE ELEVATION	TWM ELEVATION	COMMENTS
0+000.0	88.13	85.32	CONNECTION TO EXISTING 300mm WATERMAIN
0+016.9	88.32	85.92	200mm $\varnothing$ VALVE AND VALVE BOX
0+021.1	88.27	85.87	CROSS ABOVE 250mm $\varnothing$ STM AS PER CITY OF OTTAWA STANDARD W25.2 ( $\pm 0.28$ CLEARANCE)
0+023.0	88.29	85.89	200mm CAP 1.0m FROM THE FOUNDATION WALL

PROPOSED 200mm $\varnothing$ WATERMAIN (1+000.0)			
STATION	SURFACE ELEVATION	TWM ELEVATION	COMMENTS
1+000.0	88.34	85.32	CONNECT TO EXISTING 300mm VALVE AND VALVE BOX
1+002.0	88.32	85.92	REDUCER FROM 300mm TO 200mm
1+004.2	88.33	85.93	CROSS ABOVE 250mm $\varnothing$ STM AS PER CITY OF OTTAWA STANDARD W25.2 ( $\pm 0.32$ CLEARANCE)
1+006.0	88.33	85.93	200mm CAP 1.0m FROM THE FOUNDATION WALL



- NOTE:**
- ALL SERVICE CONNECTIONS AND CATCHBASIN CONNECTIONS TO BE MADE PER CITY OF OTTAWA DETAIL S1, S11 AND S11.2
  - BACKWATER VALVES TO BE PROVIDED ON ALL STORM AND SANITARY LATERALS AS PER CITY OF OTTAWA DETAILS S14, S14.1, AND S14.2. DOWNSTREAM OF ANY GRAVITY OUTLET FROM THE BUILDING. REFER TO MECHANICAL PLANS FOR DETAIL
  - ALL FLOWS FROM THE UNDERGROUND PARKING GARAGE ARE TO BE CONVEYED TO THE SANITARY SERVICE (TYP)
  - PROPOSED SERVICES TO BE SLEEVED THROUGH FOUNDATION WALL WHERE APPLICABLE. FOUNDATION DRAINS TO BE PUMPED TO STORM SERVICE
  - REFER TO MECHANICAL DRAWINGS FOR FURTHER DETAILS ON INTERNAL PLUMBING (TYP)
  - PROPOSED AREA DRAINS, ROOF DRAINS AND TRENCHDRAINS ARE TO BE CONVEYED VIA THE INTERNAL PLUMBING TO THE PROPOSED STORM SERVICE CONNECTION TO STMMH 101. REFER TO THE MECHANICAL DRAWINGS FOR DETAILS

**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.

**NOT FOR CONSTRUCTION**

No.	REVISION	DATE	BY
1.	ISSUED FOR SPA	OCT 16/2025	ARM

SCALE: 1:300

DESIGN: ARM/AM  
CHECKED: ARM  
DRAWN: MF/AM  
CHECKED: ARM  
APPROVED: GJM

**FOR REVIEW ONLY**

ARM/AM  
ARM  
MF/AM  
ARM  
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LOCATION: CITY OF OTTAWA, 2380 TENTH LINE

DRAWING NAME: GENERAL PLAN OF SERVICES

PROJECT No.: 125079

REV: REV#1

DRAWING No.: 125079-GP

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