

PIPE CROSSING TABLE			
CROSSING	LOWER PIPE	HIGHER PIPE	CLEARANCE
1	200mmØ SAN OBV = 84.54	250mmØ STM INV = 84.84	±0.30m
2	250mmØ STM OBV = 85.11	200mmØ WM INV = 85.69	±0.58m
3	250mmØ STM OBV = 85.12	200mmØ WM INV = 85.66	±0.54m

ACCUTROL RD-100-A-ADJ ROOF DRAIN TABLE					
ROOF DRAIN ID	WEIR SETTING	5-YEAR EVENT	100-YEAR EVENT	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

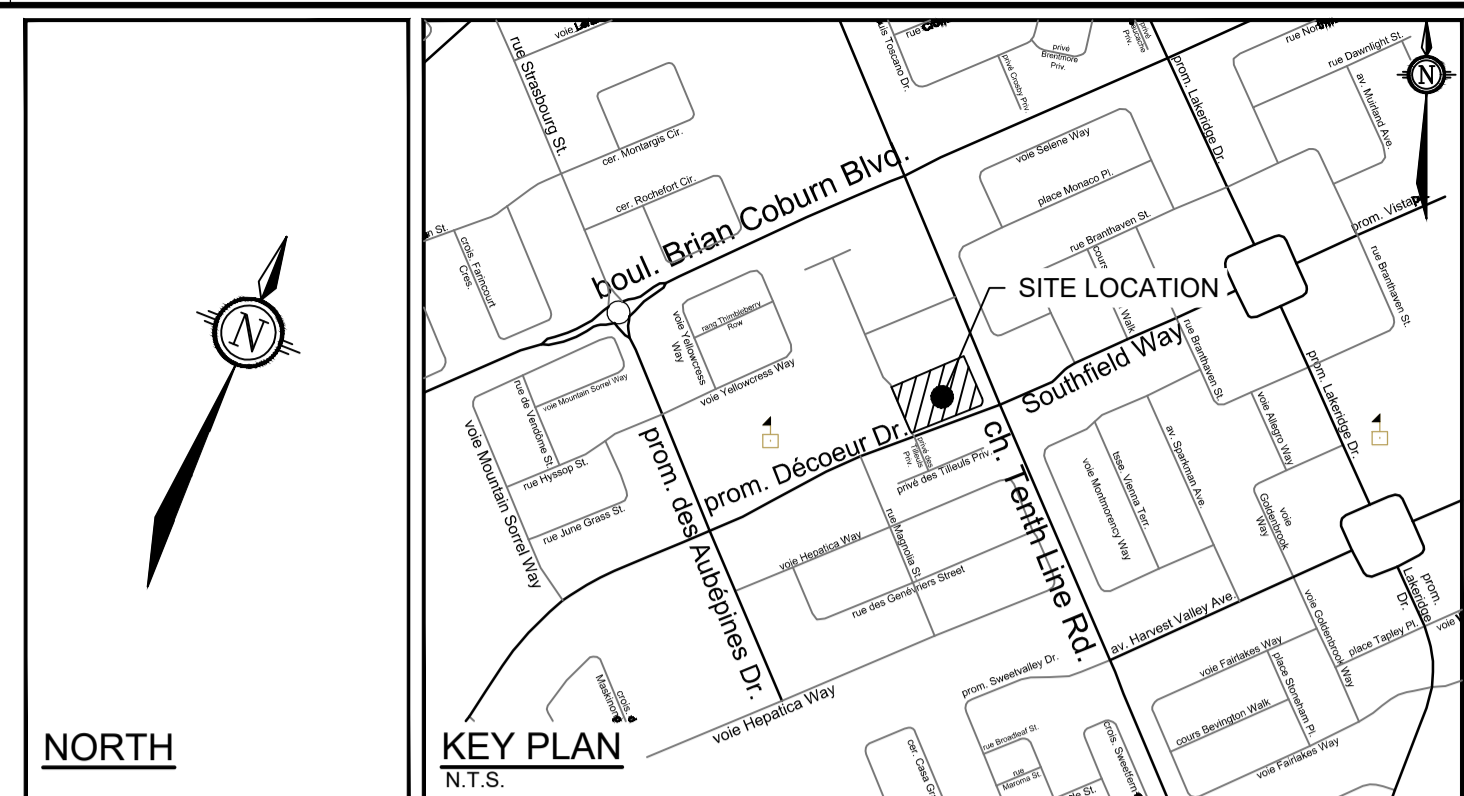
ICD SIZING AND FLOWS						
STRUCTURE	ICD SIZE	ICD INVERT (m)	T/G (m)	100-yr HGL (m)	100-yr HEAD (m)	100-yr RELEASE RATE (L/s)
CBMH 102	127mm PLATE	84.96	87.97	87.02	1.99	49.5

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

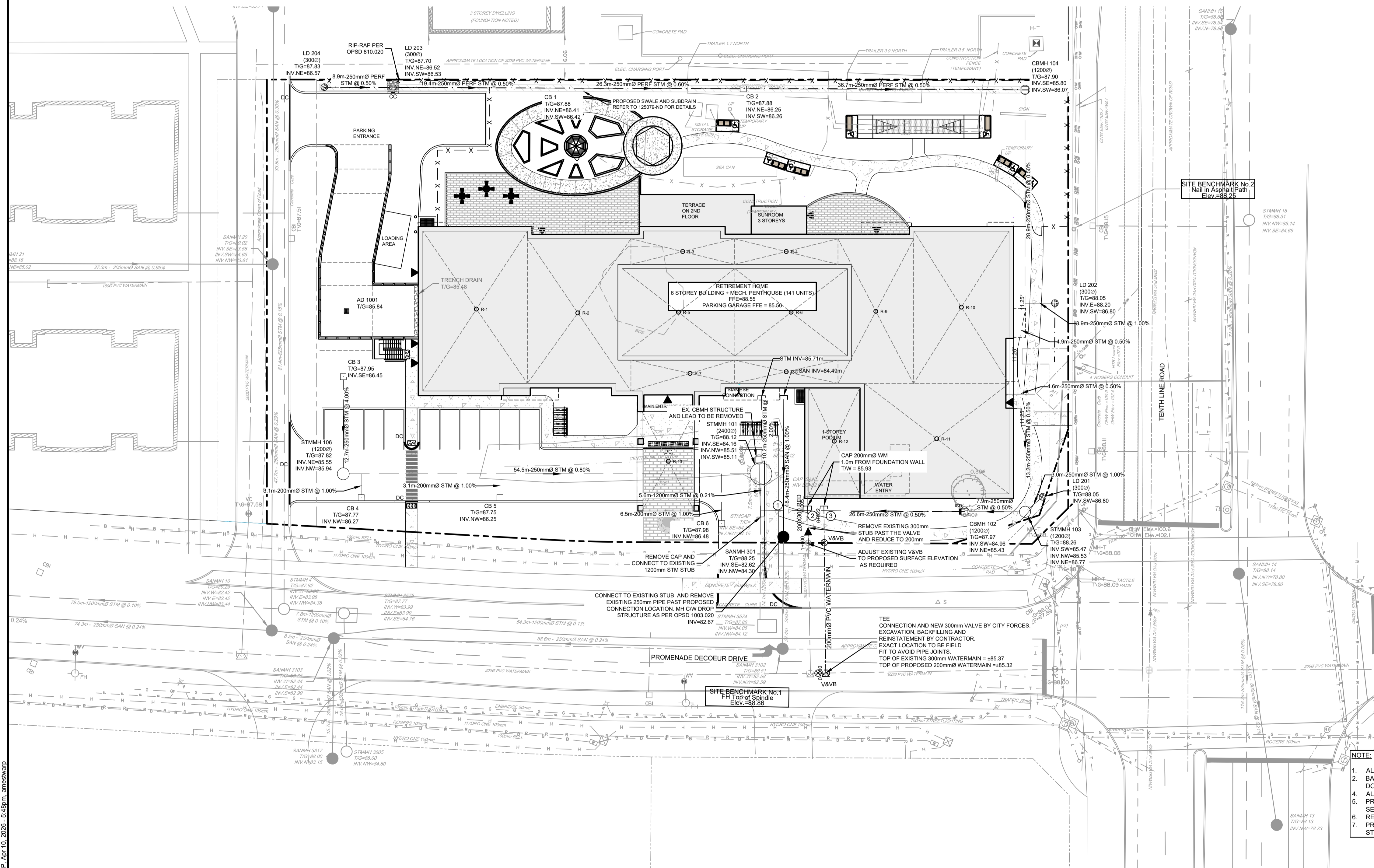
- IN LIEU OF A DETAILED ROOF PLAN, FOR THE INTERIM IT HAS BEEN ASSUMED THAT THE ROOF (AREA R-00 AS DEPICTED ON DRAWING 125079-SWM) WILL CONTAIN 13 CONTROLLED ROOF DRAINS RELEASING AT A MAXIMUM OF 1.5L/S IN THE 100-YR, 1.3 L/S IN THE 5-YR AND 1.0L/S IN THE 2-YEAR STORM EVENTS
- ONCE DETAILED ROOF PLANS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

PROPOSED 200mmØ 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	200mmØ VALVE AND VALVE BOX
0+021.1	88.26	85.86	CROSS ABOVE 250mmØ STM (±0.54 CLEARANCE)
0+022.0	88.26	85.86	200mm CAP 1.0m FROM THE FOUNDATION WALL

PROPOSED 200mmØ 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	88.30	85.90	REDUCER FROM 300mm TO 200mm
1+004.2	88.29	85.89	CROSS ABOVE 250mmØ STM (±0.58 CLEARANCE)
1+005.0	88.31	85.91	200mm CAP 1.0m FROM THE FOUNDATION WALL



- LEGEND**
- PROPERTY LINE
 - PROPOSED BARRIER CURB
 - PROPOSED DEPRESSED CURB
 - PROPOSED TACTILE WALKING SURFACE INDICATOR (TWSI)
 - PROPOSED VALVE AND VALVE BOX
 - FIRE DEPARTMENT SIEMSE CONNECTION
 - PROPOSED BUILDING ENTRANCE
 - PROPOSED HIGH POINT
 - SWALE c/w SUBDRAIN AND DIRECTION OF FLOW
 - PROPOSED CATCHBASIN
 - PROPOSED AREA DRAIN
 - PROPOSED LANDSCAPE DRAIN (ELBOW/TEE)
 - PROPOSED TRENCH DRAIN
 - PROPOSED ROOF DRAINS
 - PROPOSED BIKE RACKS
 - PROPOSED CROSSWALK PAINTING
 - SAN MH
 - STM MH
 - PROPOSED SANITARY MANHOLE
 - PROPOSED STORM MANHOLE
 - PROPOSED HYDRANT & VALVE
 - PROPOSED VALVE AND VALVE BOX
 - PROPOSED INLET CONTROL DEVICE (REFER TO 125079-ND FOR DETAILS)
 - PROPOSED PIPE CROSSING (REFER TO 125079-ND FOR DETAILS)
 - PROPOSED FILTRATION TRENCH
 - EXISTING VALVE & VALVE BOX
 - EXISTING VALVE & LEAD
 - SAN MH
 - STM MH
 - EXISTING SANITARY MANHOLE
 - EXISTING STORM MANHOLE
 - EXISTING CATCHBASIN
 - CB 1
 - EXISTING DITCH CENTERLINE
 - EXISTING UTILITY POLE
 - EXISTING UTILITY POLE ANCHORS
 - EXISTING STREETLIGHT
 - EXISTING ROAD SIGNAGE
 - BOS
 - EXISTING DITCH BOTTOM OF SLOPE



- 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

REFER TO 125079-ND FOR ADDITIONAL NOTES & 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
2.	REVISED PER CITY SUPPORTABILITY COMMENT	APRIL 17/2026	ARM
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

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ARM

GJM



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LOCATION CITY OF OTTAWA 2380 TENTH LINE		PROJECT No. 125079
DRAWING NAME GENERAL PLAN OF SERVICES		REV REV#2
		DRAWING No. 125079-GP

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