



- LEGEND**
- PROPERTY LINE
 - PROPOSED CURB
 - PROPOSED DEPRESSED CURB
 - PROPOSED TWISI
 - PROPOSED FOUNDATION WALL C/W RAILING
 - PROPOSED CAP
 - PROPOSED SANITARY SERVICE c/w MANHOLE
 - PROPOSED STORM SEWER AND MANHOLE
 - PROPOSED CATCHBASIN MANHOLE
 - PROPOSED CATCHBASIN
 - PROPOSED LANDSCAPE DRAIN
 - PROPOSED TRENCH DRAIN
 - PROPOSED INLET CONTROL DEVICE
 - RAIN WATER LEADER CONNECTION LOCATION
 - PROPOSED PIPE CROSSING (REFER TO 123050-ND FOR DETAILS)
 - PROPOSED SIAMSESE CONNECTION
 - PROPOSED WATER SERVICE
 - PROPOSED HYDRANT c/w LEAD & VALVE
 - PROPOSED VALVE AND VALVE BOX
 - PROPOSED WATER METER
 - PROPOSED REMOTE WATER METER
 - PROPOSED BUILDING ENTRANCE
 - PROPOSED FIREWALL
 - PROPOSED GARBAGE COLLECTION BINS
 - PROPOSED BIKE RACKS
 - PROPOSED CROSSWALK PAINTING
 - PROPOSED LINE PAINTING
 - PROPOSED ROOF LIMITS
 - PROPOSED TRANSFORMER
 - DIRECTION OF FLOW
 - EXISTING UTILITY POLE C/W GUY WIRES
 - EXISTING WATERMAIN C/W VALVE & VALVE CHAMBER
 - EXISTING HYDRANT C/W VALVE & LEAD
 - EXISTING SANITARY MANHOLE & SEWER
 - EXISTING STORM MANHOLE & SEWER
 - EXISTING CATCHBASIN
 - EXISTING JOINT UTILITY TRENCH
 - EXISTING STREETLIGHT
 - EXISTING ROAD SIGNAGE
 - EXISTING STREET TREE

PIPE CROSSING TABLE			
CROSSING	LOWER PIPE	HIGHER PIPE	CLEARANCE
1	200mmØ WM OBV = 105.93	250mmØ STM INV = 106.43	±0.50m
2	250mmØ SAN OBV = 105.08	250mmØ STM INV = 106.24	±1.16m
3	200mmØ WM OBV = 105.76	250mmØ STM INV = 106.26	±0.50m

PROPOSED WATER SERVICE (1+000.0)			
STATION	SURFACE ELEVATION	TWM ELEVATION	COMMENTS
1+000.00	108.32	105.85*	CONNECTION TO EXISTING 300mmØ WATERMAIN
1+010.39	108.64	106.24	PROPOSED VALVE AND VALVE BOX
1+012.01	108.70	105.93	CROSS BELOW 250mm STM AS PER CITY OF OTTAWA DETAIL W25 (CLEARANCE =±0.50m)
1+014.88	108.90	106.40	CAP SERVICE 1.0m FROM THE FOUNDATION WALL

PROPOSED WATER SERVICE (2+000.0)			
STATION	SURFACE ELEVATION	TWM ELEVATION	COMMENTS
2+000.0	108.63	106.23*	CONNECTION TO EXISTING 200mm VALVE EXISTING CAP AND PIPE PAST VALVE TO BE REMOVED
2+002.0	108.70	105.76	CROSS ABOVE 300mm STM AS PER CITY OF OTTAWA DETAIL W25.2 (CLEARANCE =±0.50m)
2+005.06	108.80	106.40	CAP SERVICE 1.0m FROM THE FOUNDATION WALL

ICD SIZING AND FLOWS						
STRUCTURE	ORIFICE ICD SIZE	ICD INVERT (m)	T/G (m)	100-yr HGL (m)	100-yr HEAD (m)	100-yr RELEASE RATE (L/s)
STMMH 101	83mm PLATE	106.43	108.70	108.17	1.70	18.8
CBMH 102	83mm PLATE	106.38	108.25	107.48	1.06	14.8
STMMH 203	94mm PLATE	106.02	108.74	107.81	1.74	23.8
CBMH 207	152mm PLATE	105.97	108.30	108.42	2.37	73.0

- NOTE:**
- ALL SERVICE CONNECTIONS AND CATCHBASIN CONNECTIONS TO BE MADE PER CITY OF OTTAWA DETAIL S11, S11.2, AND S1.
 - 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 SANITARY FLOWS ARE TO BE PUMPED TO THE PROPOSED SANITARY SERVICE (TYP).
 - PROPOSED SERVICES TO BE SLEEVED THROUGH FOUNDATION WALL. FOUNDATION DRAINS TO BE PUMPED TO STORM SERVICE.
 - PROPOSED TRENCHDRAINS ARE TO BE CONVEYED TO THE FREE FLOWING STM OUTLET CONNECTION TO STMMH 85. REFER TO THE MECHANICAL DRAWINGS FOR DETAILS.
 - ROOF DOWNSPOUTS ARE TO BE DIRECTLY CONNECTED TO THE PROPOSED STORMWATER MANAGEMENT SYSTEM. REFER TO ARCHITECT AND MECHANICAL PLANS FOR DETAILS.
 - REFER TO MECHANICAL DRAWINGS FOR FURTHER DETAILS ON INTERNAL PLUMBING (TYP).
- REFER TO 123194-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

SCALE

1:250

0 2 4 6 8 10

DESIGN

ARM

CHECKED

GJM

DRAWN

MF/ARM

CHECKED

ARM

APPROVED

GJM

FOR REVIEW ONLY

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LOCATION

CITY OF OTTAWA

425 CULDAFF ROAD

DRAWING NAME

GENERAL PLAN OF SERVICES

PROJECT No.

123194

REV

REV#2

DRAWING No.

123194-GP