- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- 2. 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.

EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF THE CITY OF OTTAWA AND ENGINEER.

- 4. BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE. ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$5,000,000,000, INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
- RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWANCES TO
- 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.
- 7. ALL DIMENSIONS AND INVERTS MUST BE VERIFIED PRIOR TO CONSTRUCTION. IF THERE IS ANY DISCREPANCY THE CONTRACTOR IS TO NOTIFY THE ENGINEER PROMPTLY
- 8. ALL ELEVATIONS ARE GEODETIC. THE SITE BENCHMARK IS CURRENTLY SET ON TOP OF THE FIRE HYDRANT SPINDLE (ELEV. = 82.40), LOCATED AT THE NORTHWEST CORNER OF THE NAVN ROAD/PAGE ROAD INTERSECTION. REFER TO THE ANNIS O'SULLIVAN VOLLEBEKK LTD TOPOGRAPHIC SURVEY OF PART OF LOT 6 CONCESSION 3 (OTTAWA FRONT), GEOGRAPHIC TOWNSHIP OF GLOUCESTER, CITY OF
- ). REFER TO GEOTECHNICAL REPORT (No. PG6527-1, DATED MARCH 22, 2023),AND THE GRADING PLAN REVIEW MEMO (No. PG6527-MEMO.01 REVISION 2, DATED MAY 3RD), PREPARED BY PATERSON GROUP, 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.
- 10. REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARDSURFACE AREAS AND DIMENSIONS.
- 11. REFER TO SERVICING AND STORMWATER MANAGEMENT REPORT PREPARED BY NOVATECH ENGINEERING CONSULTANTS LTD, R-2023-077 (DATED FEBRUARY 08, 2024).
- 12. SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).
- 13. PROVIDE LINE/PARKING PAINTING.
- 14. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GENERAL PLAN OF SERVICES INDICATING ALL SERVICING AS-BUILT INFORMATION SHOWN ON THIS PLAN. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND T/G ELEVATIONS, STRUCTURE LOCATIONS, VALVE AND HYDRANT LOCATIONS, T/WM ELEVATIONS AND ANY ALIGNMENT CHANGES, ETC.
- 15. CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.

## SEWER NOTES:

SPECIFICATIONS:		
<u>ITEM</u>	SPEC. No.	REFERENCE
CATCHBASIN (600x600mm)	705.010	OPSD
STORM / SANITARY MANHOLE (1200Ø)	701.010	OPSD
CB, FRAME & COVER	400.020	OPSD
STORM / SANITARY MH FRAME	S25	CITY OF OTTAV
SANITARY COVER	S24	CITY OF OTTAV
STORM COVER (CLOSED)	S24.1	CITY OF OTTAV
STORM COVER (OPEN)	S28.1	CITY OF OTTAV
SEWER TRENCH	S6 & S7	CITY OF OTTAV
GAS PIPE CROSSING	R20	CITY OF OTTAV
STORM SEWER	PVC DR 35	
SANITARY SEWER	PVC DR 35	
CATCHBASIN LEAD	PVC DR 35	

INSULATE ALL PIPES (SAN/STM) THAT HAVE LESS THAN 2.0m COVER WITH 50mmX1200mm HI-40 INSULATION. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION (REFER TO DETAIL)

- 2. SERVICES ARE TO BE CONSTRUCTED TO 1.0m FROM FACE OF BUILDING AT A MINIMUM SLOPE OF 1.0% (2.0% IS PREFERRED).
- 3. SEWER SERVICE CONNECTIONS PER CITY OF OTTAWA DETAILS S11 AND S11.1.
- 4. PIPE BEDDING FOR SEWER AND WATER PIPES SHOULD CONSIST OF AT LEAST 150mm OF OPSS GRANULAR A. THE BEDDING LAYER THICKNESS SHOULD BE INCREASED TO A MINIMUM OF 300mm WHERE THE SUBGRADE WILL CONSIST OF GREY SILTY CLAY. THE MATERIAL SHOULD BE PLACED IN A MAXIMUM 225mm THICK LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 99% OF IT'S SPMDD. THE BEDDING SHOULD EXTEND AT LEAST TO THE SPRING LINE OF THE PIPE.
- THE SEWER AND WATER PIPE COVER MATERIAL SHOULD CONSIST OF OPSS GRANULAR A, AND SHOULD EXTEND FROM THE SPRINGLINE OF THE PIPE TO AT LEAST 300mm ABOVE THE OBVERT OF THE PIPE. THE MATERIAL SHOULD BE PLACED IN MAXIMUM 225mm THICK LIFTS AND COMPACTED TO A MINIMUM OF 99% OF IT'S SPMDD.
- WHERE HARD SURFACE AREAS ARE CONSIDERED ABOVE TRENCH BACKFILL, THE TRENCH BACKFILL MATERIAL WITHIN THE FROST ZONE (ABOUT 1.8m BELOW FINISHED GRADE) SHOULD MATCH THE SOILS EXPOSED AT THE TRENCH WALLS TO MINIMIZE DIFFERENTIAL FROST HEAVING. THE TRENCH BACKFILL SHOULD BE PLACED IN MAXIMUM 300mm THICK LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95% OF THE MATERIALS SPMDD.
- 7. FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIPES TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSX: POSITIVE SEAL AND DURASEAL). THE CONCRETE CRADLE FOR THE PIPE CAN BE ELIMINATED.
- THE OWNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16, 410.07.16.04 AND 407.07.24 DYE TESTING IS TO BE COMPLETED ON ALL SANITARY SERVICES TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF A CERTIFIED PROFESSIONAL ENGINEER WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESULTS.
- 9. STORM MANHOLES AND CBMHS ARE TO HAVE 300mm SUMPS UNLESS OTHERWISE INDICATED.
- 10. CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS, 200mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.
- 11. ALL CATCHBASINS AND CATCHBASIN MANHOLES TO BE PROVIDED WITH MINIMUM 3 METER LONG PERFORATED SUBDRAINS EXTENDING IN TWO DIRECTIONS AT THE SUBGRADE LEVEL. SUBDRAIN IS TO BE PROVIDED AT THE TRANSITIONS BETWEEN DIFFERENT PAVEMENT COMPOSITIONS. THE SUBGRADE SURFACE SHOULD BE SHAPED TO PROMOTE WATER FLOW TO THE DRAINAGE LINES.

# WATERMAIN NOTES

1. SF

SPECIFICATIONS:		
<u>ITEM</u>	SPEC. No.	REFERENCE
WATERMAIN TRENCHING	W17	CITY OF OTTAWA
THERMAL INSULATION IN SHALLOW TRENCHES	W22	CITY OF OTTAWA
WATERMAIN CROSSING BELOW SEWER/ABOVE SEWER	W25 / W25,2	CITY OF OTTAWA
WATERMAIN	PVC DR 18	
HYDRANT	W19	CITY OF OTTAWA
VALVE AND VALVE BOX	W24	CITY OF OTTAWA

- 2. SUPPLY AND CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMAINS BY THE CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN AND CHLORINATION OF THE WATER SYSTEM SHALL BE PERFORMED BY CITY OFFICIALS
- 3. WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED. ANY WATERMAIN WITH LESS THAN 2.4m COVER TO BE INSULATED PER THE SHOWN DETAIL.
- 4. PROVIDE MINIMUM 0.25m ABOVE, 0.5m IF BELOW, CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS PER CITY OF OTTAWA STANDARDS W25/W25.2
- . WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE
- 6. CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS CITY OF OTTAWA STANDARD DETAILS W-39, 40, 41, 42, 43 AND 44.
- 7. PROVIDE THERMAL INSULATION FOR WATERMAIN AT OPEN STRUCTURES PER CITY OF OTTAWA STANDARD DETAIL W-23.
- 8. IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.

#### **GRADING NOTES**

- 1. ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE PROPOSED PAVED AREAS AS DIRECTED BY THE SITE ENGINEER OR GEOTECHNICAL ENGINEER.
- 2. NON-SPECIFIED EXISTING FILL ALONG WITH SITE EXCAVATED SOIL COULD BE PLACED AS GENERAL LANDSCAPING FILL AND BENEATH EXTERIOR PARKING AREAS WHERE SETTLEMENT OF THE GROUND IS OF MINOR CONCERN. THESE MATERIALS SHOULD BE SPREAD IN MAXIMUM 300mm THICK LOOSE LIFTS AND COMPACTED BY THE TRACKS OF THE SPREADING EQUIPMENT TO MINIMIZE VOIDS. IF THE MATERIAL IS TO BE USED TO BUILD UP THE SUB-GRADE LEVEL FOR AREAS TO BE PAVED, IT SHOULD BE COMPACTED IN MINIMUM 300mm THIVK LIFTS TO AT LEAST 95% OF THE MATERIALS SPMDD. THE PACEMENT OF SUB-GRDE MATERIAL SHOULD BE REVIEWED AT THE TIME OF PLACEMENT, BY THE GEOTECHNICAL ENGINEER'S PERSONNEL (PATERSON GROUP).
- 3. EXPOSED SUB-GRADES IN PROPOSED PAVED AREAS SHOULD BE PROOF ROLLED WITH A LARGE STEEL DRUM ROLLER AND INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT
- 4. ANY SOFT AREAS EVIDENT FROM THE PROOF ROLLING SHOULD BE SUB-EXCAVATED AND REPLACED WITH SUITABLE MATERIAL THAT IS FROST COMPATIBLE WITH THE EXISTING SOILS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- 5. FILL USED FOR GRADING BENEATH THE BASE AND SUB-BASE LAYERS OF PAVED AREAS SHOULD CONSIST, UNLESS OTHERWISE SPECIFIED, OF CLEAN IMPORTED GRANULAR FILL, SUCH AS OPSS GRANULAR A GRANULAR B TYPE ILOR SELECT SUB-GRADE MATERIAL. THIS MATERIAL SHOULD BE TESTED AND APPROVED PRIOR TO DELIVERY TO THE SITE. THE FILL SHOULD BE PLACED IN LIFTS NO GREATER THAN 300mm THICK AND COMPACTED USING SUITABLE COMPACTION EQUIPMENT FOR THE LIFT THICKNESS, FILL PLACED BENEATH THE PAVED AREAS SHOULD BE COMPACTED TO AT LEAST
- 6. THE TRANSITION BETWEEN THE PAVEMENT STRUCTURE OVER THE PODIUM DECK SUB-GRADE AND SOIL SUB-GRADE BEYOND THE FOOTPRINT OF THE PODIUM DECK IS RECOMMENDED TO BE FRANSITIONED TO MATCH THE PAVEMENT STRUCTURES PROVIDED FOR THE AREAS NOT ABOVE THE PODIUM DECK (REFER TO "PAVEMENT STRUCTURES" BELOW. FOR THIS TRANSITION, A 5H:1V IS RECOMMENDED BETWEEN THE TWO SUB-GRADE SURFACES. FURTHER, THE BASE LAYER THICKNESS SHOULD BE INCREASED TO A MINIMUM THICKNESS OF 500mm BELOW THE TOP OF THE PODIUM SLAB A MINIMUM OF 1.5m FROM THE FOUNDATION WALL PRIOR TO PROVIDING THE RECOMMENDED TAPER.
- 7. MINIMUM OF 2% GRADE FOR ALL GRASS AREAS UNLESS OTHERWISE NOTED.
- 8. MAXIMUM TERRACING GRADE TO BE 3:1 UNLESS OTHERWISE NOTED.
- 9. ALL GRADES BY CURBS ARE EDGE OF PAVEMENT GRADES UNLESS OTHERWISE INDICATED.
- 10. ALL CURBS SHALL BE BARRIER CURB (150mm) UNLESS OTHERWISE NOTED.
- 11. BACKFILL MATERIAL BELOW SIDEWALK AND WALKWAY SUB-GRADE OR OTHER SETTLEMENT SENSITIVE STRUCTURES WHICH ARE NOT ADJACENT TO THE BUILDINGS SHOULD CONSIST OF FREE DRAINING, NON-FROST SUSCEPTIBLE MATERIAL. THIS MATERIAL SHOULD BE PLACED IN MAXIMUM 300mm LOOSE LIFTS AND COMPACTED TO AT LEAST 98% OF ITS SPMDD UNDER DRY, AND ABOVE FREEZING, CONDITIONS.
- 12. REFER TO LANDSCAPE PLAN FOR PLANTING AND OTHER LANDSCAPE FEATURE DETAILS.
- 13. CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GRADING PLAN INDICATING AS-BUILT ELEVATIONS OF ALL DESIGN GRADES SHOWN ON THIS PLAN.
- 14. THE PROPOSED SITE IS SUBJECT TO GRADE RAISE RESTRICTIONS. REFER TO PATERSON MEMORANDUM TITLED: GRADING PLAN REVIEW, PROPOSED APARTMENT BUILDING, 3080 NAVAN ROAD - OTTAWA ONTARIO, DATED APRIL 18,2023, PG65274-MEMO.01 FOR THE SITE LIGHTWEIGHT FILL

### PAVEMENT STRUCTURE

 - ACCESS L	ANE, FIRE TRUCK LANE, RAMP AND HEAVY TRUCK PARKING AREAS (PODIUM DECK)	
 40mm	ANE, FIRE TRUCK LANE, RAMP AND HEAVY TRUCK PARKING AREAS (PODIUM DECK) HL3 OR SUPERPAVE 12.5 HL8 OR SUPERPAVE 19.0 ORSS GRAN "A" CRUSHED STONE	
50mm	HL8 OR SUPERPAVE 19.0	
 200mm **	OBSS CRAN "A" CRUSHED STONE	

Omm \*\* OPSS GRAN "A" CRUSHED STONE 101.6mm RIGID INSULATION 31.8mm WATERPROOFING MEMBRANE AND PROTECTION BOARD

(SUBGRADE - REINFORCED CONCRETE PODIUM DECK) \*\*THICKNESS IS DEPENDENT ON GRADE OF INSULATION AS NOTED IN GEOTECH REPORT

- HEAVY-TRUCK TRAFFIC AND LOADING AREAS 40mm HL3 OR SUPERPAVE 12.5 50mm HL8 OR SUPERPAVE 19.0 150mm OPSS GRAN "A" CRUSHED STONE

450mm OPSS GRAN "B" TYPE II (SUBGRADE - EITHER IN SITU SOIL. FILL OR OPSS GRANULAR TYPE I OR II MATERIAL PLACED OVER IN SITU SOIL.)

CAR ONLY PARKING AREAS AREAS (PODIUM DECK) 50mm HL3 OR SUPERPAVE 12.5 200mm\*\* OPSS GRAN "A" CRUSHED STONE 101.6mm RIGID INSULATION 31.8mm WATERPROOFING MEMBRANE AND PROTECTION BOARD (SUBGRADE - REINFORCED CONCRETE PODIUM DECK)

\*\*THICKNESS IS DEPENDENT ON GRADE OF INSULATION AS NOTED IN GEOTECH REPORT

- CAR ONLY PARKING AREAS 50mm HL3 OR SUPERPAVE 12.5 150mm OPSS GRAN "A" CRUSHED STONE 300mm OPSS GRAN "B" TYPE II (SUBGRADE - EITHER IN SITU SOIL, FILL OR OPSS GRANULAR TYPE I OR II MATERIAL PLACED OVER IN SITU SOIL.)

# MINIMUM PERFORMANCE GRADED (PG) 58-34 ASPHALT

- CEMENT. IF SOFT SPOTS DEVELOP IN THE SUBGRADE DURING
- COMPACTION OR DUE TO CONSTRUCTION TRAFFIC, THE AFFECTED AREAS SHOULD BE EXCAVATED AND REPLACED WITH OPSS GRANULAR B TYPE II MATERIAL
- THE PAVEMENT GRANULAR BASE AND SUB-BASE SHOULD BE PLACED IN MAXIMUM 300mm THICK LIFTS AND COMPACTED TO A MINIMUM OF 100% OF THE MATERIALS SPMDD USING SUITABLE COMPACTION EQUIPMENT.

## **SEWER & WATERMAIN INSULATION NOTES:**

1 INSULATE ALL SEWER PIPES THAT HAVE LESS THAN 2.0m COVER AND ALL WATERMAIN WITH

COVER WITH 50mm MINIMUM (SEE TABLE)

INSULATION LESS THAN 2.4m OF COVER WITH EXPANDED THICKNESS SEWER / WATER POLYSTYRENE INSULATION AS PER OPSD (mm) 1109.030. 00-1700 / 2400-2100 50 2. THE THICKNESS OF INSULATION SHALL BE THE EQUIVALENT OF 25mm FOR EVERY 300mm 1700-1400 / 2100-1800 75 REDUCTION IN THE REQUIRED DEPTH OF

1400-1100 / 1800-1500

100

T = THICKNESS OF INSULATION (mm) W = WIDTH OF INSULATION (mm) W = D + 300 (1000 min.)

D = O.D OF PIPE (mm)

BACKFILL AS SPECIFIED BEDDING AS SPECIFIED ti INSULATION

BEDDING AS SPECIFIED

NOTE: BEDDING TO BE 300mm IN PRESENCE

**INSULATION DETAIL FOR SHALLOW** SEWERS & WATERMAIN

PIPE CROSSING TABLE LOWER PIPE HIGHER PIPE CLEARAN 250mmØ STM INV = 77.89 200mmØ SAN OBV = 77.60 ±0.29n 200mmØ WM INV = 78.50 250mmØ STM OBV = 78.20 250mmØ STM OBV = 78.21 200mmØ W/TM IN\/ = 78.51 +0.30m

	PROPOSED WATER SERVICE (1+000.0)			
STATION	SURFACE ELEVATION	T/WM ELEVATION	COMMENTS	
1+000.0	80.81	78.28*	CROSS ABOVE 300mm STM AS PER CITY O	
1+002.7	80.95	78.70		
1+014.4	80.80	78.40	CAP SERVICE 1.0m FROM THE FOUNDATION WAI	
	PROP	OSED WATI	ER SERVICE (2+000.0)	
STATION	SURFACE ELEVATION	T/WM ELEVATION	COMMENTS	
2+000.0	80.82	78.28*	78.28* CONNECTION TO EXISTING 200mmØ SERVICE	
1+002.0	00.00	70.74	CROSS ABOVE 300mm STM AS PER CITY OF	=

OTTAWA DETAIL W25.2 ( CLEARANCE =±0.30m

150mm HYDRANT TEE CONNECTION

PROPOSED VALVE AND VALVE BOX

CAP SERVICE 1.0m FROM THE FOUNDATION WALL

CONTRACTOR TO CONFIRM THE ELEVATION OF THE EXISTING WATER STUB AND NOTIFY THE ENGINEER IF DIFFERENT

80.96

80.87

80.81

80.80

78.71

78 47

78.41

78.40

1+002.9

1+012.4

1+013.5

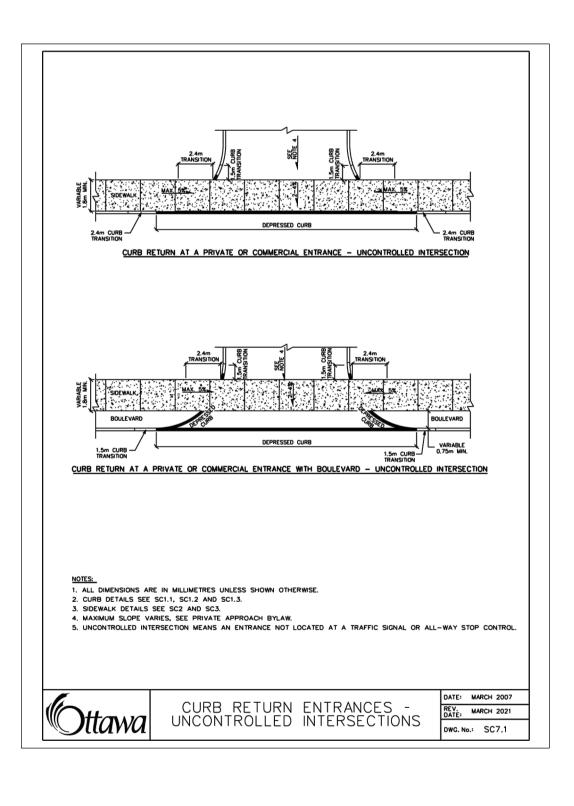
1+014.4

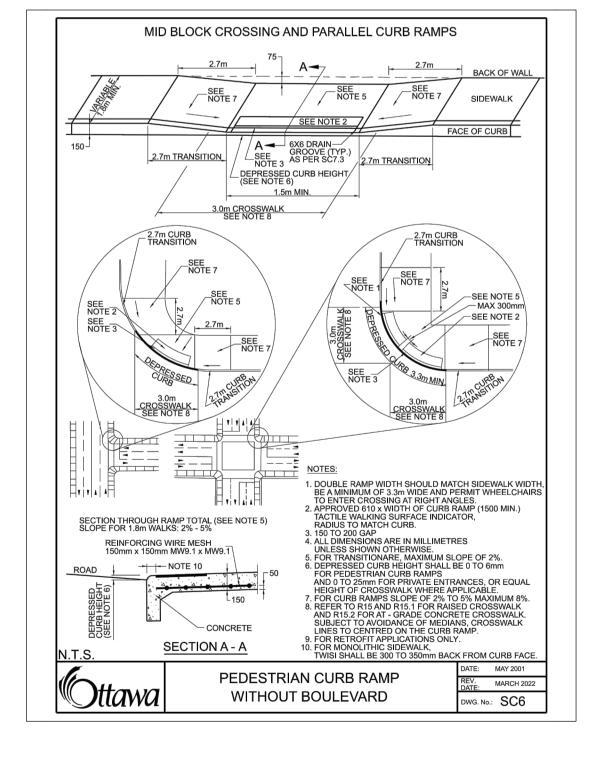
ICD SIZING AND FLOWS						
STRUCTURE	TEMPEST LMF/ ORIFICE ICD SIZE	ICD INVERT (m)	T/G (m)	100-yr HGL (m)	100-yr HEAD (m)	100-yr RELEASE RATE (L/s
CBMH02	LMF 95	77.95	80.45	80.60	2.55	12.8
CISTERN	108mm	78.02	80.64	79.28	1.21	27.4



JOHN SEVIGNY C.E.T. MANAGER (A), DEVELOPMENT REVIEW EAST PLANNING, DEVELOPMENT & BUILDING SERVICES **DEPARTMENT. CITY OF OTTAWA** 

By sevignyjo at 3:30 pm, Jun 21, 2024





THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, 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.

SCALE ARN AS SHOWN GJM UPDATED PER CITY NAVAN ROAD WIDENING APR/22/2024 UPDATED PER CITY COMMENTS FEB/08/2024 | GJN ARN UPDATED PER CITY COMMENTS NOV/21/2023 UPDATED PER CITY COMMENTS SEPT 15/23 GJI APR 26/23 ISSUED FOR SPA DATE GJI REVISION







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CITY OF OTTAWA 3080 NAVAN ROAD (RHYTHM APARTMENTS) DRAWING NAME NOTES AND DETAILS

122180 **REV** # 5

122180-ND