

SANITARY MANHOLE TABLE

| MANHOLE ID | SIZE(mm) | T/G ELEV (m) | INVERT (m) | PIPE DIAMETER (mm) |
|------------|----------|--------------|-------------------------------|-------------------------|
| 3 | 1200 | 56.17 | E=54.08 W=54.07 | E=200 W=200 |
| 5 | 1200 | 56.73 | E=54.37 SW=54.39 | E=200 SW=200 |
| 7 | 1200 | 55.61 | W=53.76 N=53.69 S=53.69 | W=200 N=200 S=250 |
| 9 | 1200 | 56.15 | NW=54.05 E=54.02 | NW=200 E=200 |

STORM MANHOLE TABLE

| MANHOLE ID | SIZE(mm) | T/G ELEV (m) | INVERT (m) | PIPE DIAMETER (mm) | I.C.D. |
|------------|----------|--------------|-------------------------------|-------------------------|--------|
| 4 | 1200 | 56.33 | N=52.94 S=52.52 | N=450 S=450 | 148mm |
| 6 | 1200 | 56.20 | W=54.57 S=53.30 E=53.44 | W=200 S=450 E=450 | |
| 8 | 1200 | 56.43 | N=54.18 W=53.58 E=54.68 | N=375 W=450 E=200 | |
| 10 | 1200 | 56.68 | N=54.48 E=54.48 W=53.30 | N=300 E=300 W=250 | |
| 12 | 1200 | 56.75 | E=54.62 W=55.44 | E=300 S=300 W=250 | |
| 14 | 1200 | 56.76 | W=54.71 E=55.52 S=55.40 | W=300 E=250 S=250 | |
| CBMH1 | 1200 | 56.64 | W=54.43 S=54.36 E=55.40 | W=300 S=375 E=250 | |

CATCHBASIN TABLE

| CB ID | T/G ELEVATION | INVERT | I.C.D. |
|-------|---------------|--------|--------|
| CB1 | 56.28 | 54.86 | - |
| CB2 | 56.06 | 54.66 | - |
| CB3 | 56.07 | 54.67 | - |
| CB4 | 56.06 | 54.66 | - |

REAR YARD CATCHBASIN TABLE

| RYCB No. | T/G ELEVATION | INVERT | I.C.D. |
|----------|---------------|--------|--------|
| LC1 | 56.57 | 55.57 | - |
| LC2 | 56.58 | 55.44 | - |
| LC3 | 56.64 | 55.55 | - |
| LC4 | 55.69 | 54.29 | - |
| LC5 | 55.79 | 53.99 | - |
| LC6 | 56.72 | 55.72 | - |
| LC7 | 56.67 | 55.60 | - |
| LC8 | 56.65 | 55.47 | - |
| LC9 | 56.62 | 55.62 | - |
| LC10 | 56.65 | 55.65 | - |
| LC11 | 56.63 | 55.63 | - |
| LC12 | 56.65 | 55.49 | - |
| LC13 | 56.65 | 55.65 | - |
| LC14 | 56.67 | 55.67 | - |
| RY1 | 55.39 | 53.59 | 127mm |
| RY2 | 55.50 | 54.32 | - |
| RY3 | 55.59 | 54.03 | 108mm |
| RY4 | 55.25 | 53.84 | - |
| RY5 | 55.45 | 54.07 | - |
| RY6 | 55.55 | 54.55 | - |
| RY7 | 55.66 | 54.26 | - |

SEWER CROSSING TABLE

| LOCATION | ELEVATIONS | CLEARANCE |
|----------|--------------------------------|-----------|
| C1 | SAN INV=53.96 WM OBV=53.72 | 0.24m |
| C2 | WM INV=53.97 STM OBV=53.67 | 0.30m |
| C3 | SAN INV=54.03 STM OBV=53.66 | 0.37m |
| C4 | STM INV=54.67 SAN OBV=54.54 | 0.13m |
| C5 | STM INV=55.65 SAN OBV=54.61 | 1.04m |
| C6 | STM INV=54.19 SAN OBV=54.11 | 0.08m |
| C7 | STM INV=55.09 SAN OBV=54.20 | 0.89m |
| C8 | SAN INV=53.76 STM OBV=53.43 | 0.33m |
| C9 | WM INV=53.73 WM OBV=53.43 | 0.30m |
| C10 | SAN INV=53.69 WM OBV=53.22 | 0.47m |
| C11 | WM INV=53.90 STM OBV=52.16 | 1.74m |
| C12 | SAN INV=52.63 STM OBV=52.11 | 0.52m |

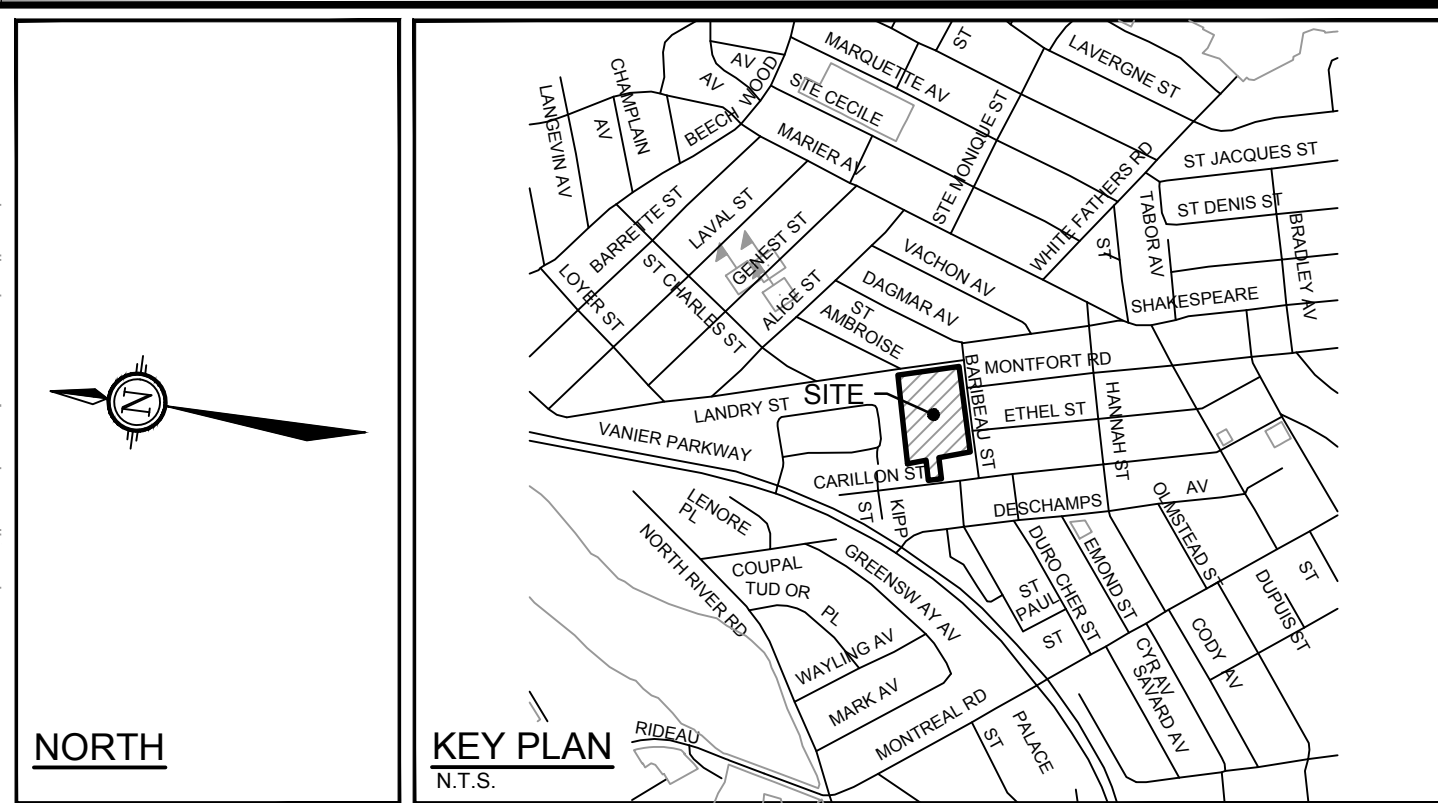
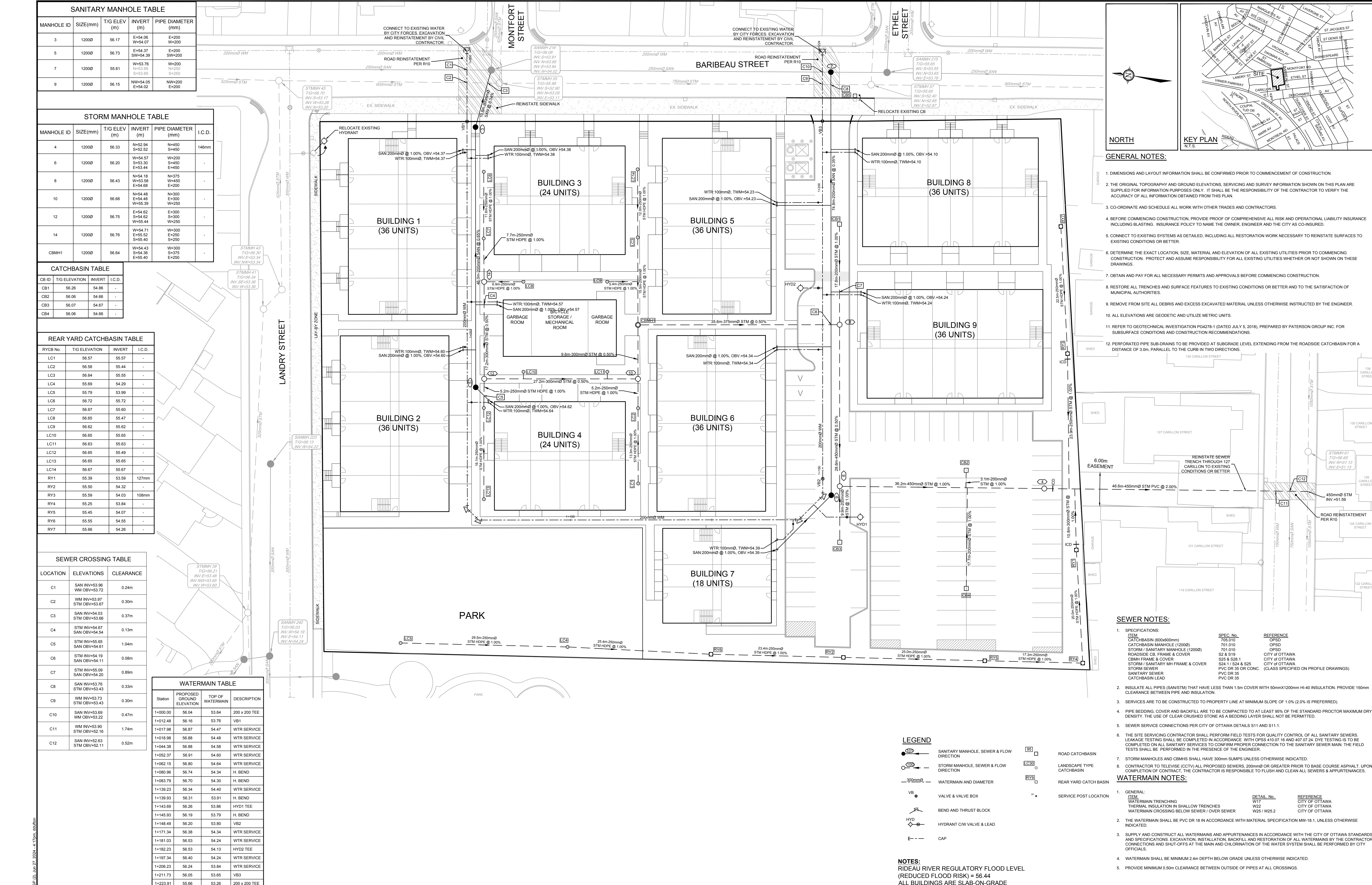
WATERMAIN TABLE

| Station | PROPOSED GROUND ELEVATION | TOP OF WATERMAIN | DESCRIPTION |
|----------|---------------------------|------------------|---------------|
| 1+000.00 | 56.04 | 53.64 | 200 x 200 TEE |
| 1+012.48 | 56.16 | 53.76 | VB1 |
| 1+017.98 | 56.87 | 54.47 | WTR SERVICE |
| 1+018.98 | 56.86 | 54.48 | WTR SERVICE |
| 1+044.38 | 56.88 | 54.58 | WTR SERVICE |
| 1+062.37 | 56.91 | 54.60 | WTR SERVICE |
| 1+082.15 | 56.80 | 54.64 | WTR SERVICE |
| 1+080.96 | 56.74 | 54.34 | H BEND |
| 1+083.79 | 56.70 | 54.30 | H BEND |
| 1+139.23 | 56.34 | 54.40 | WTR SERVICE |
| 1+139.93 | 56.31 | 53.91 | H BEND |
| 1+143.69 | 56.26 | 53.86 | HYD1 TEE |
| 1+145.93 | 56.19 | 53.79 | H BEND |
| 1+148.49 | 56.20 | 53.80 | VB2 |
| 1+171.34 | 56.38 | 54.34 | WTR SERVICE |
| 1+181.03 | 56.53 | 54.24 | WTR SERVICE |
| 1+182.23 | 56.53 | 54.13 | HYD2 TEE |
| 1+187.34 | 56.40 | 54.24 | WTR SERVICE |
| 1+206.23 | 56.24 | 53.84 | WTR SERVICE |
| 1+211.73 | 56.05 | 53.65 | VB3 |
| 1+223.91 | 55.66 | 53.26 | 200 x 200 TEE |

LEGEND



NOTES:
RIDEAU RIVER REGULATORY FLOOD LEVEL (REDUCED FLOOD RISK) = 56.44
ALL BUILDINGS ARE SLAB-ON-GRADE



- GENERAL NOTES:**
- DIMENSIONS AND LAYOUT INFORMATION SHALL BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - THE ORIGINAL TOPOGRAPHY AND GROUND ELEVATIONS, SERVING AND SURVEY INFORMATION SHOWN ON THIS PLAN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF ALL INFORMATION OBTAINED FROM THIS PLAN.
 - COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
 - BEFORE COMMENCING CONSTRUCTION, PROVIDE PROOF OF COMPREHENSIVE ALL RISK AND OPERATIONAL LIABILITY INSURANCE INCLUDING BLASTING. INSURANCE POLICY TO NAME THE OWNER, ENGINEER AND THE CITY AS CO-INSURED.
 - CONNECT TO EXISTING SYSTEMS AS DETAILLED, INCLUDING ALL RESTORATION WORK NECESSARY TO REINSTATE SURFACES TO EXISTING CONDITIONS OR BETTER.
 - 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 THESE DRAWINGS.
 - OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS BEFORE COMMENCING CONSTRUCTION.
 - RESTORE ALL TRENCHES AND SURFACE FEATURES TO EXISTING CONDITIONS OR BETTER AND TO THE SATISFACTION OF MUNICIPAL AUTHORITIES.
 - REMOVE FROM SITE ALL DEBRIS AND EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER.
 - ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
 - REFER TO GEOTECHNICAL INVESTIGATION PA#278-1 (DATED JULY 5, 2016), PREPARED BY PATERSON GROUP INC. FOR SUBSURFACE CONDITIONS AND CONSTRUCTION RECOMMENDATIONS.
 - PERFORATED PIPE SUB-DRAINS TO BE PROVIDED AT SUBGRADE LEVEL EXTENDING FROM THE ROADSIDE CATCHBASIN FOR A DISTANCE OF 3.0m, PARALLEL TO THE CURB IN TWO DIRECTIONS.

- SEWER NOTES:**
- SPECIFICATIONS:

| ITEM | SPEC. No. | REFERENCE |
|-----------------------------------|--------------------|---------------------------------------|
| CATCHBASIN (600x600mm) | 705.010 | OPSD |
| CATCHBASIN MANHOLE (1200) | 701.010 | OPSD |
| STORM / SANITARY MANHOLE (1200) | 701.010 | OPSD |
| ROADSIDE CB, FRAME & COVER | S2 & S19 | CITY OF OTTAWA |
| CBMH FRAME & COVER | S25 & S28 | CITY OF OTTAWA |
| STORM / SANITARY MH FRAME & COVER | S24 / S24 & S25 | CITY OF OTTAWA |
| STORM SEWER | PVC DR 35 OR CONC. | (CLASS SPECIFIED ON PROFILE DRAWINGS) |
| SANITARY SEWER | PVC DR 35 | |
| CATCHBASIN LEAD | PVC DR 35 | |
 - INSULATE ALL PIPES (SAN/STM) THAT HAVE LESS THAN 1.5m COVER WITH 50mmX1200mm HI-40 INSULATION. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.
 - SERVICES ARE TO BE CONSTRUCTED TO PROPERTY LINE AT MINIMUM SLOPE OF 1.0% (2.0% IS PREFERRED).
 - PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER SHALL NOT BE PERMITTED.
 - SEWER SERVICE CONNECTIONS PER CITY OF OTTAWA DETAILS S11 AND S11.1.
 - THE SITE SERVING CONTRACTOR SHALL PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSD 410.16 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 THE ENGINEER.
 - STORM MANHOLES AND CBMHs SHALL HAVE 300mm SUMPS UNLESS OTHERWISE INDICATED.
 - CONTRACTOR TO TELETYPE (CITY) 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.

- WATERMAIN NOTES:**
- GENERAL:

| ITEM | DETAIL No. | REFERENCE |
|---|-------------|----------------|
| WATERMAIN TRENCHING | W17 | CITY OF OTTAWA |
| THERMAL INSULATION IN SHALLOW TRENCHES | W22 | CITY OF OTTAWA |
| WATERMAIN CROSSING BELOW SEWER / OVER SEWER | W25 / W25.2 | CITY OF OTTAWA |
 - THE WATERMAIN SHALL BE PVC DR 18 IN ACCORDANCE WITH MATERIAL SPECIFICATION MW-18.1, UNLESS OTHERWISE INDICATED.
 - SUPPLY AND CONSTRUCT ALL WATERMANS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMANS BY THE CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN AND CHLORINATION OF THE WATER SYSTEM SHALL BE PERFORMED BY CITY OFFICIALS.
 - WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED.
 - PROVIDE MINIMUM 0.50m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS.

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.



| No. | REVISION | DATE | BY | No. | REVISION | DATE | BY |
|-----|-----------------------------------|-----------|-----|-----|--|-----------|-----|
| 15 | CONCEPT UPDATE | JUN 27/24 | MAB | 8 | CITY SUBMISSION | OCT 21/21 | MAB |
| 14 | MINOR UPDATES TO BLOCKS 1-4, 9 | NOV 16/22 | MAB | 7 | CITY SUBMISSION | AUG 3/21 | MAB |
| 13 | USF LOWERED BLOCKS 1, 2, 3, 4 & 9 | JUL 20/22 | MAB | 6 | CITY SUBMISSION | JUN 8/21 | MAB |
| 12 | SITE PLAN UPDATE | JUL 15/22 | MAB | 5 | CITY SUBMISSION | FEB 5/21 | MAB |
| 11 | ISSUED FOR ECA | MAR 24/22 | MAB | 4 | STORM OUTLET VIA 127 CARILLON | OCT 23/20 | MAB |
| 10 | ISSUED FOR BUILDING PERMIT | MAR 2/22 | MAB | 3 | SITE PLAN APPLICATION | AUG 24/20 | MAB |
| 9 | CITY SUBMISSION - PARK UPDATE | FEB 15/22 | MAB | 2 | RVCA APPROVAL IN PRINCIPAL APPLICATION | MAY 29/20 | MAB |
| | | | | 1 | ISSUED FOR RVCA REVIEW | MAR 26/20 | MAB |

| SCALE | DATE | BY | DATE | BY |
|-------|------|----|------|----|
| 1:250 | | | | |

FOR REVIEW ONLY

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CITY OF OTTAWA
DOMINION VILLAGE - 200 BARBEAU STREET

SERVICING PLAN

PROJECT No: 119068
REV: REV #15
DRAWING No: 119068-GP