

DESCRIPTION

EXISTING

PROPOSED

DESCRIPTION

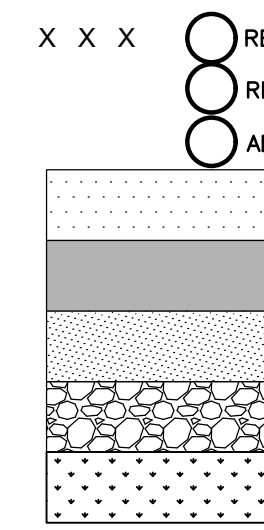
EXISTING

PROPOSED

DESCRIPTION

MISCELLANEOUS

REMOVED
RELOCATED
ADJUSTED
PAVEMENT OVER PARKING GARAGE
PAVEMENT OVER EARTH
ROAD REINSTATEMENT AS PER CITY STANDARD R10
RIP-RAP AS PER OPSD 810.010
LANDSCAPE REINSTATEMENT



PAVEMENT STRUCTURE:

HEAVY DUTY PAVEMENT STRUCTURE AREAS OVER PARKING STRUCTURES:
40mm HL-3 OR SUPERPAVE (PG) 58-34 12.5 ASPHALTIC CONCRETE
50mm HL-8 OR SUPERPAVE (PG) 58-34 19.0 ASPHALTIC CONCRETE
150mm BASE - OPSS GRANULAR A CRUSHED STONE
100mm SUBBASE - OPSS GRANULAR B TYPE II
BELOW GRANULAR B REFER TO ARCHITECTURAL PLANS
HEAVY DUTY PAVEMENT STRUCTURE AREAS OVER FATH:
40mm HL-3 OR SUPERPAVE (PG) 58-34 12.5 ASPHALTIC CONCRETE
50mm HL-8 OR SUPERPAVE (PG) 58-34 19.0 ASPHALTIC CONCRETE
150mm BASE - OPSS GRANULAR A CRUSHED STONE
450mm SUBBASE - OPSS GRANULAR B TYPE II
SUBGRADE - EITHER FILL, IN SITU SOIL OR OPSS GRANULAR B TYPE I OR II

GENERAL NOTES

- 1. ALL WORKS AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS), WHERE APPLICABLE.
2. THE LOCATION OF UTILITIES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED.
3. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING SERVICES PRIOR TO ANY CONSTRUCTION.
4. ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND BEAR COST OF THE SAME.
6. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE 'OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS'.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION, BACKFILL AND REINSTATEMENT OF ALL AREAS DISTURBED DURING CONSTRUCTION.
8. ANY AREAS BEYOND THE LIMIT OF THE SITE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AT THE CONTRACTOR'S EXPENSE.
9. THE CONTRACTOR SHALL COMPLY WITH THE CITY OF OTTAWA REQUIREMENTS FOR TRAFFIC CONTROL WHEN WORKING ON CITY STREETS.
10. THE SUPPORT OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
11. THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS WRITTEN APPROVAL BY THE ENGINEER HAS BEEN OBTAINED.
12. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.
13. THE SITE LAYOUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
14. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT.
15. FOR GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL INVESTIGATION REPORT PREPARED BY EXP SERVICES INC DATED MAY 21, 2021 PROJECT NO. OTT-00252625-AD
16. THE CONTRACTOR SHALL APPRAISE HIS/HER SELF OF ALL SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED AND SHALL CARRY OUT THEIR OWN TEST PITS AS REQUIRED TO MAKE THEIR OWN INDEPENDENT ASSESSMENT OF GROUND CONDITIONS.
17. DO NOT CONSTRUCT USING DRAWINGS THAT ARE NOT MARKED 'ISSUED FOR CONSTRUCTION'.
18. FOR TOPOGRAPHICAL INFORMATION REFER TO PLAN PREPARED BY ANIS, O'SULLIVAN, VOLLEBECK SURVEYING LTD. DATED MAY 1, 2019.
19. CIVIL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, STRUCTURAL, LANDSCAPE AND LEGAL DRAWINGS.

STORM SEWER NOTES:

- 1. ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
2. ALL PVC STORM SEWERS ARE TO BE SDR 35 APPROVED PER C.S.A. B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE SPECIFIED.
3. THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE STORM SEWERS IN ACCORDANCE WITH OPSD 802.010 AND 802.013. DURING CONSTRUCTION THE CONTRACTOR SHALL PROTECT THE PIPES FROM HEAVY CONSTRUCTION EQUIPMENT. BEDDING AND BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% SPMDD.
4. SEWER BEDDING AS PER CITY STANDARD S6 & S7.
5. ALL ABANDONED EXISTING SEWERS TO BE CAPPED AT THE PROPERTY LINE TO THE SATISFACTION OF THE CITY OF OTTAWA'S SEWER OPERATIONS.
6. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE DIFFERENTIAL FROST HEAVING IN THE SUBGRADE AND INSULATION IS REQUIRED WHERE COVER IS LESS THAN 2.0m.
7. ALL STORM SERVICES TO BE EQUIPPED WITH APPROVED BACKWATER VALVES. REFER TO MECHANICAL DRAWINGS.
8. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED STORM SEWERS AND EXISTING SEWERS CONNECTED TO THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED.

WATERMAIN NOTES:

- 1. ALL PVC WATERMAIN SHALL BE PVC DR18 IN ACCORDANCE WITH AWWA C-900 CLASS 150 OR PVC10 IN ACCORDANCE WITH AWWA C-909, WITH AWWA/CSA PRESSURE RATING OF 235 PSI (1620 kPa).
2. ALL WATERMAIN MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
3. NO WORK SHALL COMMENCE UNLESS A CITY WATER WORKS INSPECTOR IS ON SITE. WATERMAIN CONNECTIONS TO EXISTING SEWERS SHALL BE WITH ALL EXCAVATION BACKFILL AND ROAD REINSTATEMENT BY CONTRACTOR.
4. WATERMANS TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W17, UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER.
5. CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS AS PER CITY OF OTTAWA STD. W40. ALL ANODES SHALL BE A Z-24-48 AS PER CITY OF OTTAWA STD. W44.
6. ALL WATERMANS TO BE INSTALLED AT MINIMUM COVER OF 2.4m.
7. IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
8. DISINFECTION AND TESTING OF WATERMAIN TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
9. WATER METER TO BE INSTALLED AS PER W32.
10. INSULATION FOR WATERMAIN CROSSING OVER AND BELOW SEWER SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. W25.2 AND W25, RESPECTIVELY, WHERE WATERMAIN COVER IS LESS THAN 2.4m.
11. WATERMAIN TO BE BLANKED AT MAIN, NOT AT PROPERTY LINE.
12. ALL FIRE HYDRANTS TO BE INSTALLED IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W19.

ROAD NOTES:

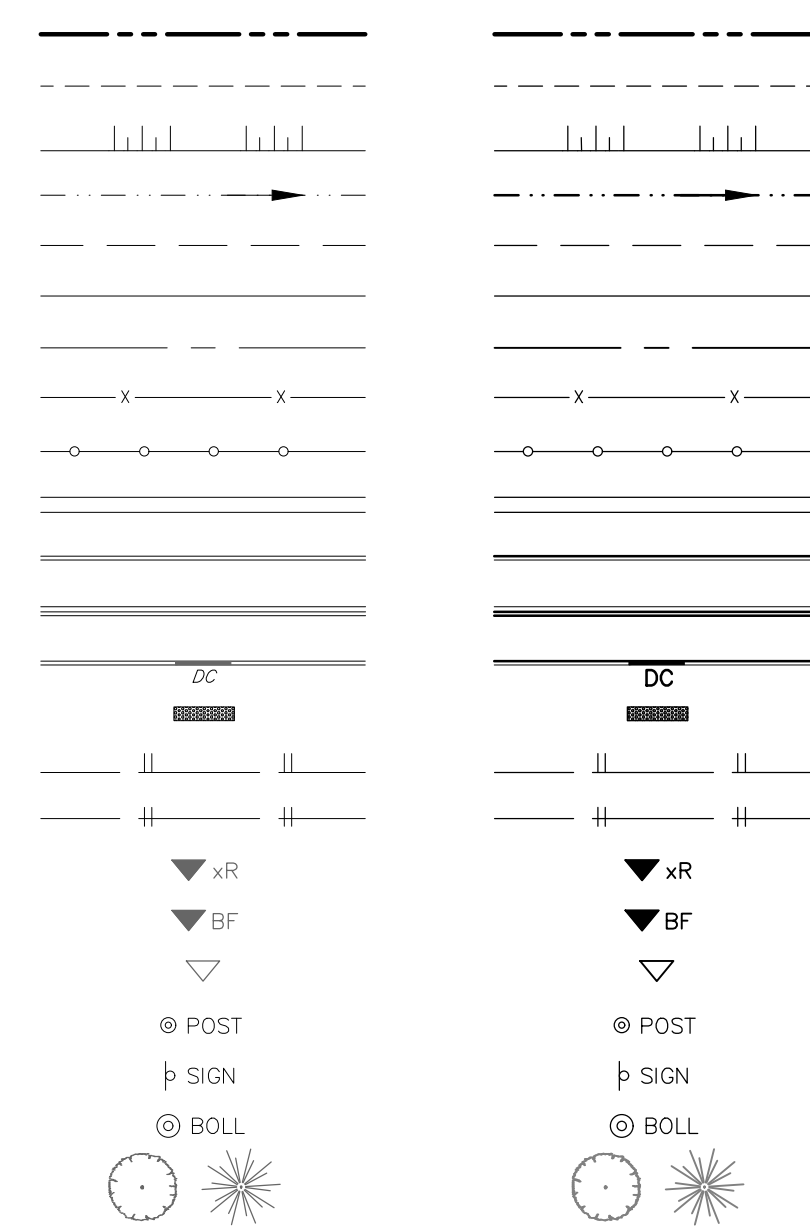
- 1. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. R10 AND OPSD 509.010, OPSS 310.
2. GRANULAR 'A' SHALL BE PLACED TO A MINIMUM THICKNESS OF 300mm AROUND ALL STRUCTURES WITHIN PAVEMENT AREA.
3. ALL GRANULAR FOR ROADS SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.
4. FOR PAVEMENT STRUCTURE DETAILS REFER TO LEGEND

SANITARY SEWER NOTES:

- 1. ALL SANITARY SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
2. ALL SANITARY SEWERS SHALL BE PVC SDR 35, IPEX 'RING-TITE' (OR EQUIVALENT), AS PER CSA STANDARD B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE NOTED.
3. SANITARY SEWER TRENCH AND BEDDING SHALL BE AS PER CITY OF OTTAWA STD. S6 AND S7, CLASS 'B' BEDDING UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED SANITARY SEWERS AND EXISTING SEWERS CONNECTED TO THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED.
5. THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE SANITARY SEWERS IN ACCORDANCE WITH OPSD 802.010 AND 802.013. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT THE PIPES FROM HEAVY CONSTRUCTION EQUIPMENT. BEDDING AND BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% SPMDD.
6. ALL ABANDONED EXISTING SEWERS TO BE CAPPED AT THE PROPERTY LINE TO THE SATISFACTION OF THE CITY OF OTTAWA'S SEWER OPERATIONS.

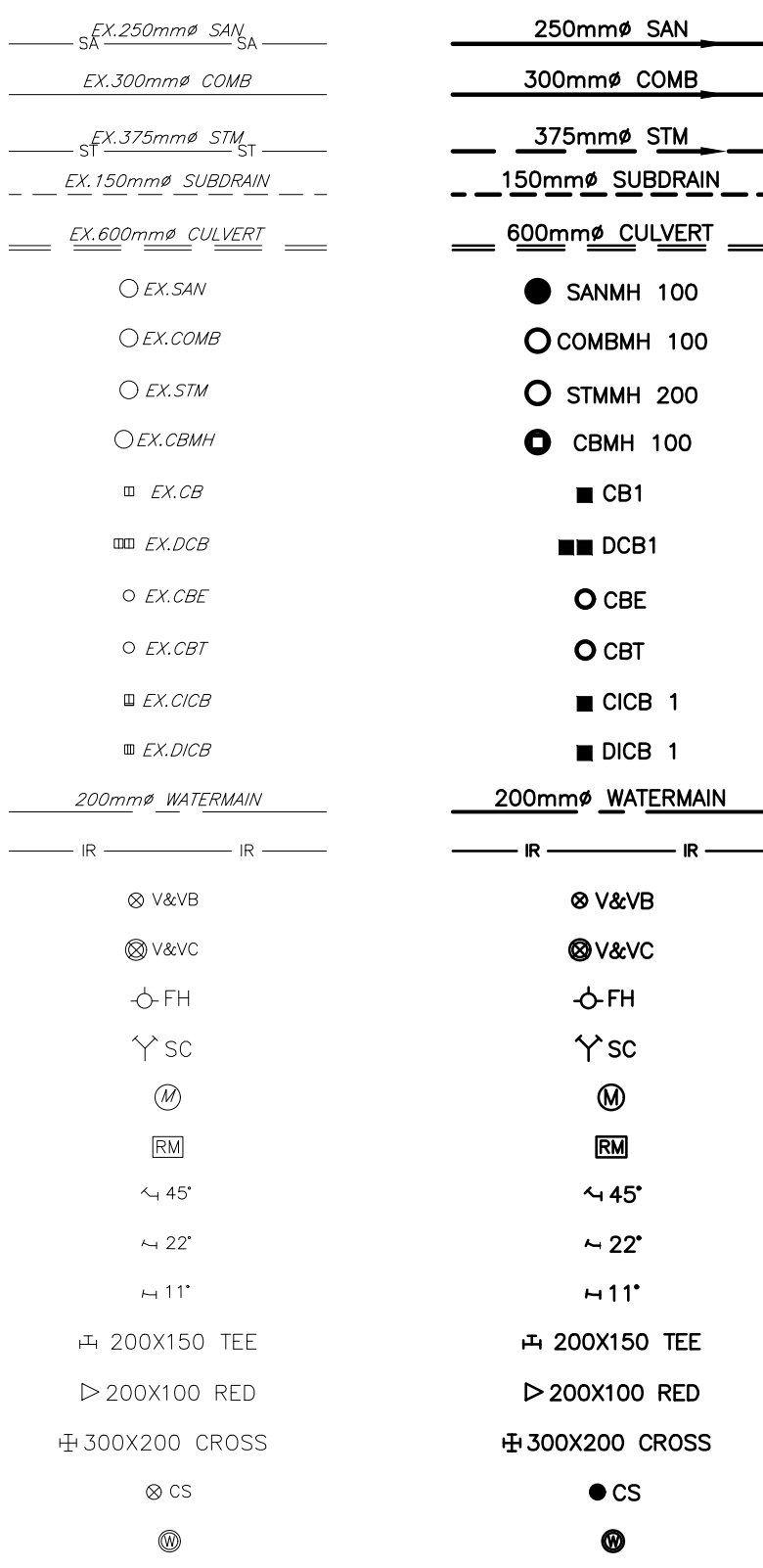
SITE FEATURES

PROPERTY LINE
TOP OF SLOPE
TERRACING (3:1 TYPICAL)
DITCH/SWALE AND DIRECTION OF FLOW
EDGE OF SHOULDER
EDGE OF PAVEMENT
ROAD/ALIGNMENT
CHAINLINK FENCE
POST AND RAIL FENCE
SIDEWALK (TYPE AS NOTED ON DRAWINGS)
BARRIER CURB (SC1.1)
MOUNTABLE CURB (SC1.3)
DEPRESSED CURB
TACTILE WALKING SURFACE INDICATOR 'TWSI' (SC7.3)
GUARDRAIL
JERSEY BARRIERS
BUILDING ENTRY/EXIT WITH RISERS
BUILDING ENTRY/EXIT BARRIER FREE
BUILDING ENTRY/EXIT OVERHEAD DOOR
POST
SIGN
BOLLARD
VEGETATION



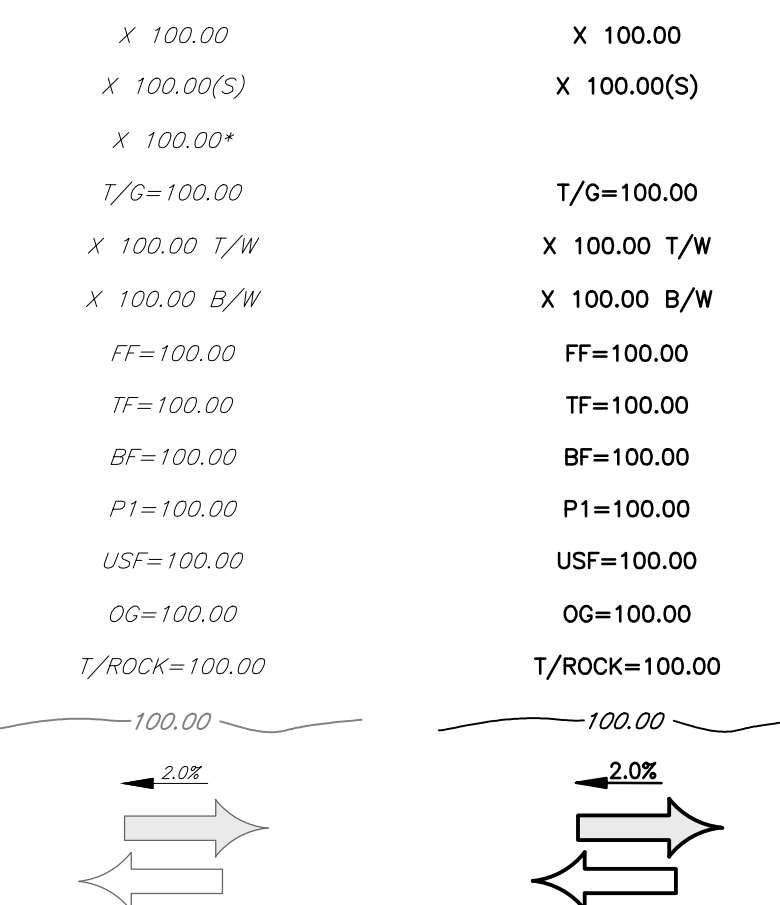
SERVICES AND STRUCTURES

SANITARY SEWER
COMBINATION SEWER
STORM SEWER
STORM SUBDRAIN
STORM CULVERT
SANITARY MANHOLE
COMBINATION MANHOLE
STORM MANHOLE
CATCHBASIN MANHOLE
CATCHBASIN
DOUBLE CATCHBASIN
CATCHBASIN ELBOW (S30)
CATCHBASIN TEE (S31)
CURB INLET CATCHBASIN
DITCH INLET CATCHBASIN
WATERMAIN
IRRIGATION
VALVE AND VALVE BOX
VALVE AND VALVE CHAMBER
FIRE HYDRANT
SIAMESE CONNECTION
WATER METER
REMOTE WATER METER
45' BEND
22.5' BEND
11.25' BEND
TEE
REDUCER
CROSS
CURB STOP
WATER WELL



GRADING

GROUND ELEVATION
SWALE ELEVATION
AOV TOPO TOP OF WALL ELEVATION
TOP OF GRATE ELEVATION
TOP OF WALL ELEVATION
BOTTOM OF WALL ELEVATION
FINISHED FLOOR ELEVATION
TOP OF FOUNDATION ELEVATION
BASEMENT FLOOR ELEVATION
PARKING LEVEL ELEVATION
UNDERSIDE OF FOOTING ELEVATION
ORIGINAL GROUND ELEVATION
TOP OF ROCK ELEVATION
CONTOUR LINES
SLOPE AND DIRECTION OF FLOW
OVERLAND FLOW ROUTE ONSITE
OVERLAND FLOW ROUTE EXTERNAL



STORMWATER MANAGEMENT

STORM DRAINAGE AREA BOUNDARY
STORM DRAINAGE AREA NUMBER
STORM DRAINAGE AREA IN HECTARES
RUN-OFF COEFFICIENT
5 YEAR PONDING AREA
100 YEAR PONDING AREA



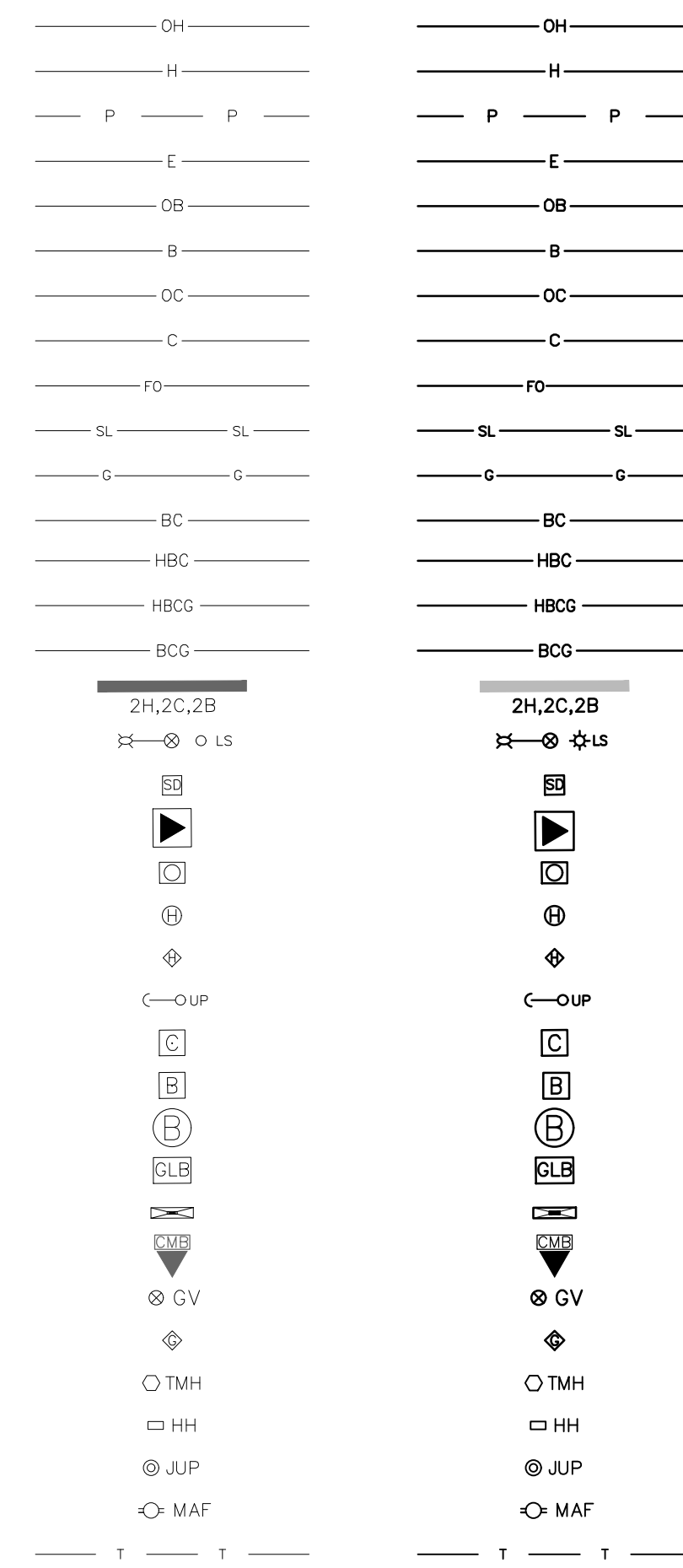
GEOTECHNICAL

BOREHOLE
TEST PIT
COREHOLE
PIEZOMETER
MONITORING WELL



UTILITY AND STRUCTURES

HYDRO (OVERHEAD)
HYDRO
POWER
ELECTRICAL
BELL (OVERHEAD)
BELL
CABLE (OVERHEAD)
CABLE TV
FIBRE OPTIC
STREETLIGHT
GASMAIN
JOINT USE TRENCH - BELL/CABLE TV
JOINT USE TRENCH - HYDRO/BELL/CABLE TV
JOINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS
JOINT USE TRENCH - BELL/CABLE TV/GAS
DUCT CROSSING WITH NUMBER AND TYPE OF DUCTS
STREETLIGHT
STREETLIGHT DISCONNECT
HYDRO TRANSFORMER
HYDRO SWITCHING KIOSK
HYDRO MANHOLE
HYDRO METER
UTILITY POLE AND GUY WIRE
CABLE PEDESTAL
BELL PEDESTAL
BELL MANHOLE
BELL GROUND LEVEL BOX
ENDWALL
COMMUNITY MAILBOX
GAS VALVE
GAS METER
TRAFFIC MANHOLE
TRAFFIC HAND HOLE
TRAFFIC JOINT USE POLE
TRAFFIC MAST ARM
TRAFFIC CONDUIT



CAUTION
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.

Table with columns: REV, REVISION DESCRIPTION, DATE, BY, APPD. Contains revision history for the drawing.

Table with columns: SCALE, DESIGNED BY, REVIEWED BY, CLIENT. Contains project metadata.

Client information: 11061917 CANADA INCORPORATED, 100-768 ST. JOSEPH BOULEVARD, GATINEAU, QC. J8Y 4B8. Includes exp. logo and contact details.

Project information: 11061917 CANADA INC RESIDENTIAL DEVELOPMENT, 365 FOREST STREET, OTTAWA, ONTARIO. Includes drawing title 'NOTES AND LEGEND SHEET' and drawing number 'C001'.

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