

THE RIDGE PHASE 4

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CITY OF OTTAWA

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PROJECT No. 19-1123

CAIVAN
 COMMUNITIES
 THE RIDGE
 PHASE 4

GENERAL NOTES:

- 1. ALL WORKS AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS), AS AMENDED BY THE CITY OF OTTAWA.
2. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING UTILITIES WITHIN THE SITE AND ADJACENT WORK AREAS...

STORM NOTES:

- 1. ALL REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.2 (LATEST AMENDMENT). ALL NON-REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.1 (LATEST AMENDMENT)...

SANITARY NOTES:

- 1. ALL SANITARY SEWER INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE CITY OF OTTAWA AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS) AS AMENDED BY THE CITY OF OTTAWA.
2. ALL SANITARY SEWERS SHALL BE PVC SDR 35, IPEX "RING-TITE" (OR EQUIVALENT)...

ROADWORK NOTES:

- 1. ALL TOPSOIL AND ORGANIC MATERIAL SHALL BE STRIPPED WITHIN THE ROAD ALLOWANCE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. CONCRETE CURB SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. SC1.1 (BARRIER CURB) AND SC1.3 (MOUNTABLE CURB)...

GRADING NOTES:

- 1. A FLAT AREA HAVING A WIDTH OF 0.6m SHALL BE PROVIDED AT THE BOUNDARY LIMITS ADJACENT DEVELOPED PROPERTIES IN ORDER THAT THE EXISTING BOUNDARY ELEVATIONS SHALL BE MAINTAINED.
2. ALL ROAD DIMENSIONS SHALL BE TO THE CENTERLINE OF THE ROAD OR TO THE CENTERLINE OF THE DRIVEWAY...

GEOTECHNICAL REPORT/MEMO:

- 1. REFER TO:
- GEOTECHNICAL INVESTIGATION REPORT NO. PG5016-1 DATED NOVEMBER 12, 2019 BY PATERSON GROUP
- GEOTECHNICAL MEMO NO. PG5016-MEMO.02 DATED NOVEMBER 15, 2019 BY PATERSON GROUP

INFORMATION PRESENTED ON THESE DRAWINGS HAS BEEN INTERPOLATED FROM THE GEOTECHNICAL REPORTS AND ACCURACY IS NOT GUARANTEED. CONTRACTORS ARE ADVISED TO READ THE GEOTECHNICAL REPORTS AND ASSUME THEIR OWN CONCLUSIONS.

SPILLS CONTROL NOTES:

- 1. ALL CONSTRUCTION EQUIPMENT SHALL BE REFUELED, MAINTAINED AND STORED NO LESS THAN 30 METERS FROM THE WATERCOURSES, STREAMS, CREEKS, WOODLOTS AND ANY ENVIRONMENTALLY SENSITIVE AREAS.
2. THE CONTRACTOR MUST IMPLEMENT ALL NECESSARY MEASURES IN ORDER TO PREVENT LEAKS, DISCHARGES OR SPILLS OF POLLUTANTS, DELETERIOUS MATERIALS, OR OTHER SUCH MATERIALS...

RETAINING WALLS:

- 1. PRE-CAST UNIT RETAINING WALL TYPE TO BE SPECIFIED BY PROJECT LANDSCAPE ARCHITECT AT LOCATIONS, AS SPECIFIED ON THE GRADING PLAN(S) TO BE APPROVED BY AUTHORITIES HAVING JURISDICTION.
2. ALL RETAINING WALLS SHALL BE CONCRETE, CONCRETE PRODUCT WITH TIE-BACK SYSTEM OR HEAVY BLOCK SYSTEM.

LEGEND

WATERMAIN

- CROSS
45° BEND
LATERAL
HYDRANT, VALVE & VB
TEE
VALVE & VC
VALVE & VB
22.5° BEND
11.25° BEND
REDUCER
CAP

SANITARY

- MAINTENANCE HOLE
CAP
EXISTING SANITARY MAINTENANCE HOLE

STORM

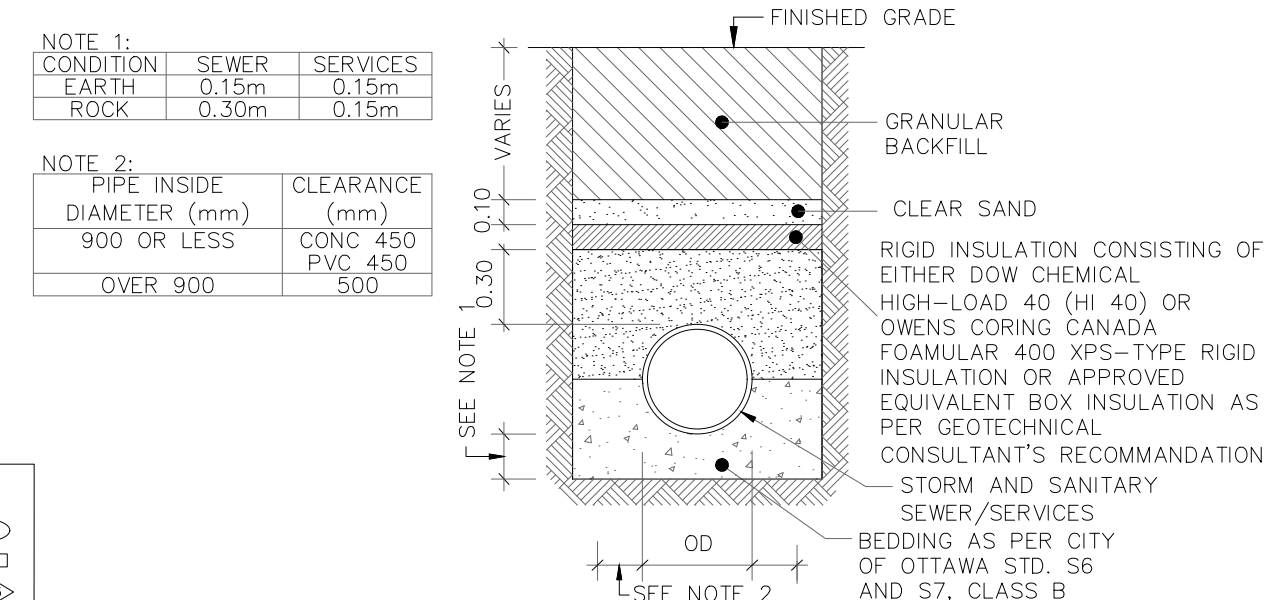
- STREET CATCHBASIN & LEAD
STREET CATCHBASIN WITH CLOSED LID & LEAD MAINTENANCE HOLE
CURB INLET CATCHBASIN & LEAD CATCHBASIN/ MAINTENANCE HOLE
INTERCONNECTED CATCH BASIN & LEADS
CAP
SINGLE SERVICE LOCATION (ST, SAN & WM)
SINGLE SERVICE LOCATION (SAN & WM)

- COLLECTOR ROADS (Elevation Road, Dundonald Drive)
- 40mm SUPERPAVE 12.5 ASPHALT CONCRETE
- 100mm SUPERPAVE 19.0 ASPHALT CONCRETE
- 150mm OPSS GRANULAR A CRUSHED STONE

- RESIDENTIAL DRIVEWAYS
- 40mm HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
- 150mm OPSS GRANULAR A CRUSHED STONE
- 300mm OPSS GRANULAR B TYPE II

- AS PER GEOTECHNICAL REPORT
91.00
42.52
1/0 92.55
2.00
TACTILE WALKING SURFACE INDICATOR (AS PER CITY OF OTTAWA STD. SC6)

Table with columns: Depth (m), T1 (mm), Using T1 (mm), As per City Standard (W22):, and H (mm). Rows show depth from 1.20 to 2.30 meters.



THERMAL INSULATION FOR STORM/SANITARY SERVICES IN SHALLOW TRENCHES. SCALE: N.T.S.

TOPOGRAPHIC INFORMATION: RIDEAU FRONT (JULY 10, 2019) AND BORRISOKANE ROAD (JULY 10, 2019) PROVIDED BY STANTEC (PROJECT No. 18-10-145-00)
LEGAL INFORMATION: M-PLAN PROVIDED BY J.D. BARNES., PROJECT No. 19-10-074-00, DATED ON FEBRUARY 9, 2024.

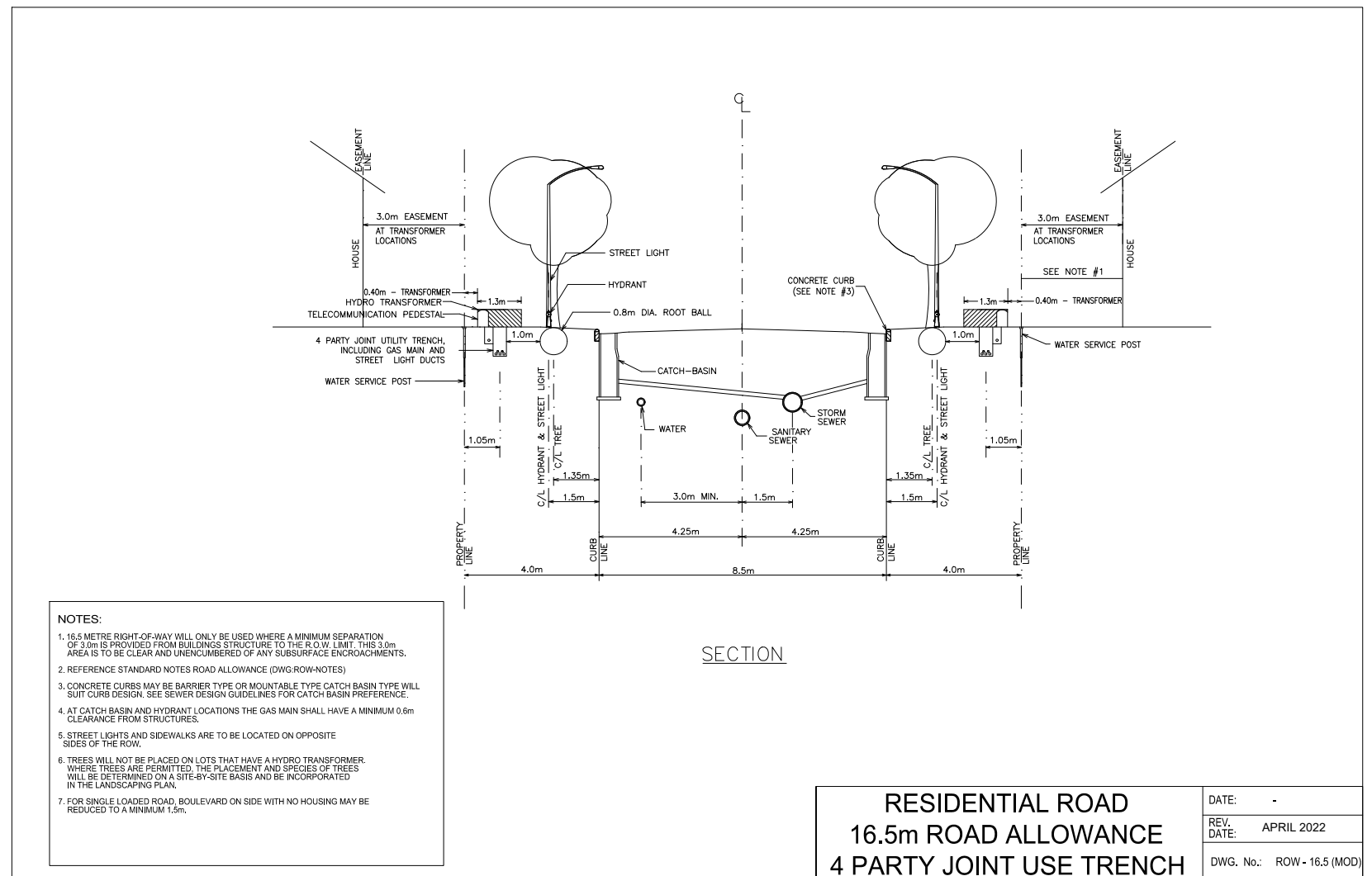
ELEVATION NOTE table with columns: No., BY, DATE, DESCRIPTION. Lists revision dates from 2013 to 2024.

CITY OF OTTAWA logo and project information: PROJECT No. 19-1123. Includes DSEL Professional Engineer seal.

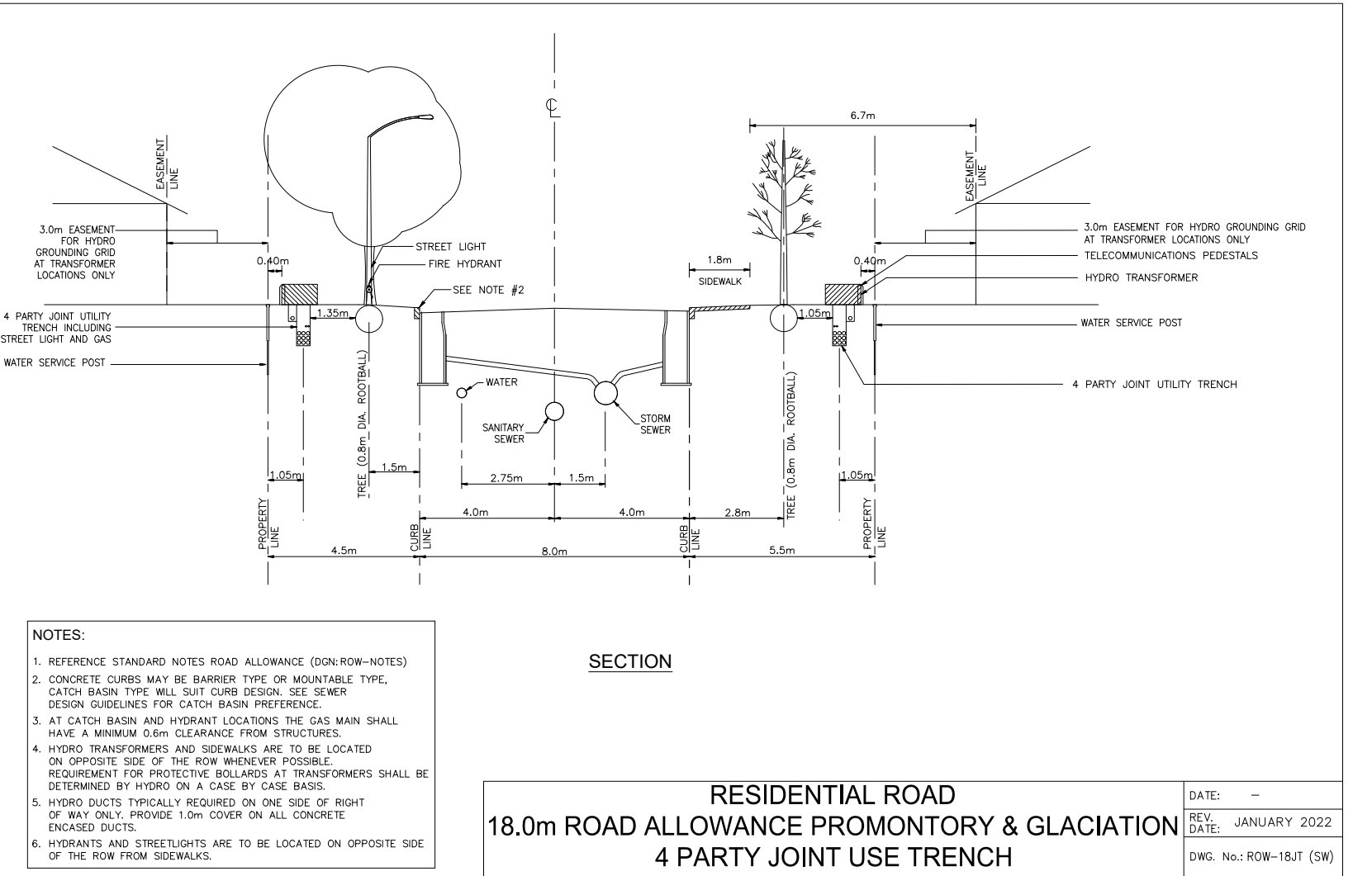
GENERAL NOTES section with CAIVAN COMMUNITIES logo, THE RIDGE PHASE 4 title, DSEL logo, and drawing details: DRAWN BY: V.W., CHECKED BY: W.L., SHEET No. 1.

REVIEWED BY DEVELOPMENT REVIEW BRANCH
Signed: [Signature]
Date: June 7, 2024
Plan Number: 17803

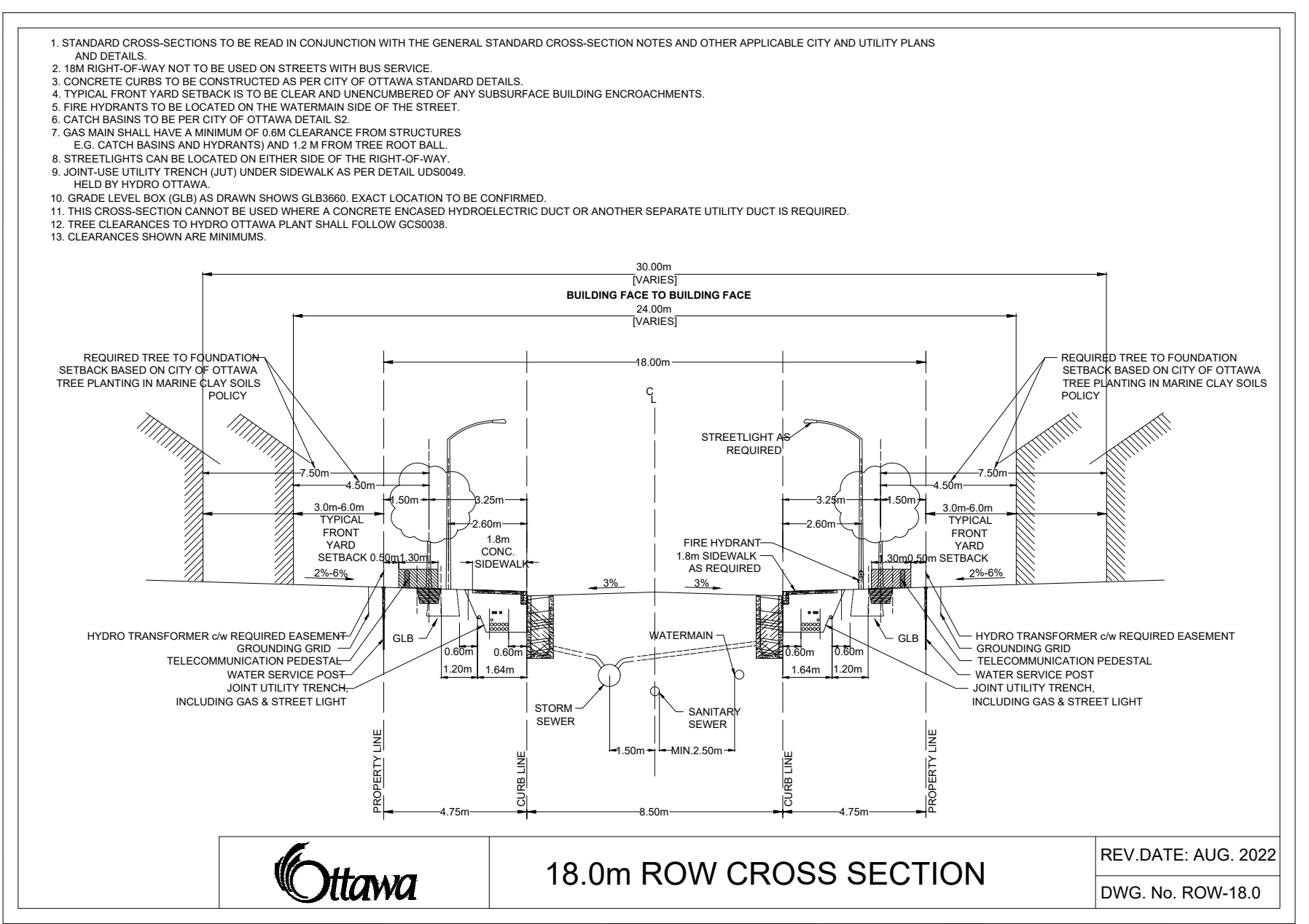
CITY PLAN No. 17803
CITY FILE No. D07-16-20-0015



Expansion Road
Andesite Terrace (STA. 0+000.000 TO STA. 0+120.185)
Andesite Terrace (STA. 0+239.001 TO STA. 0+296.157)



Promontory Place

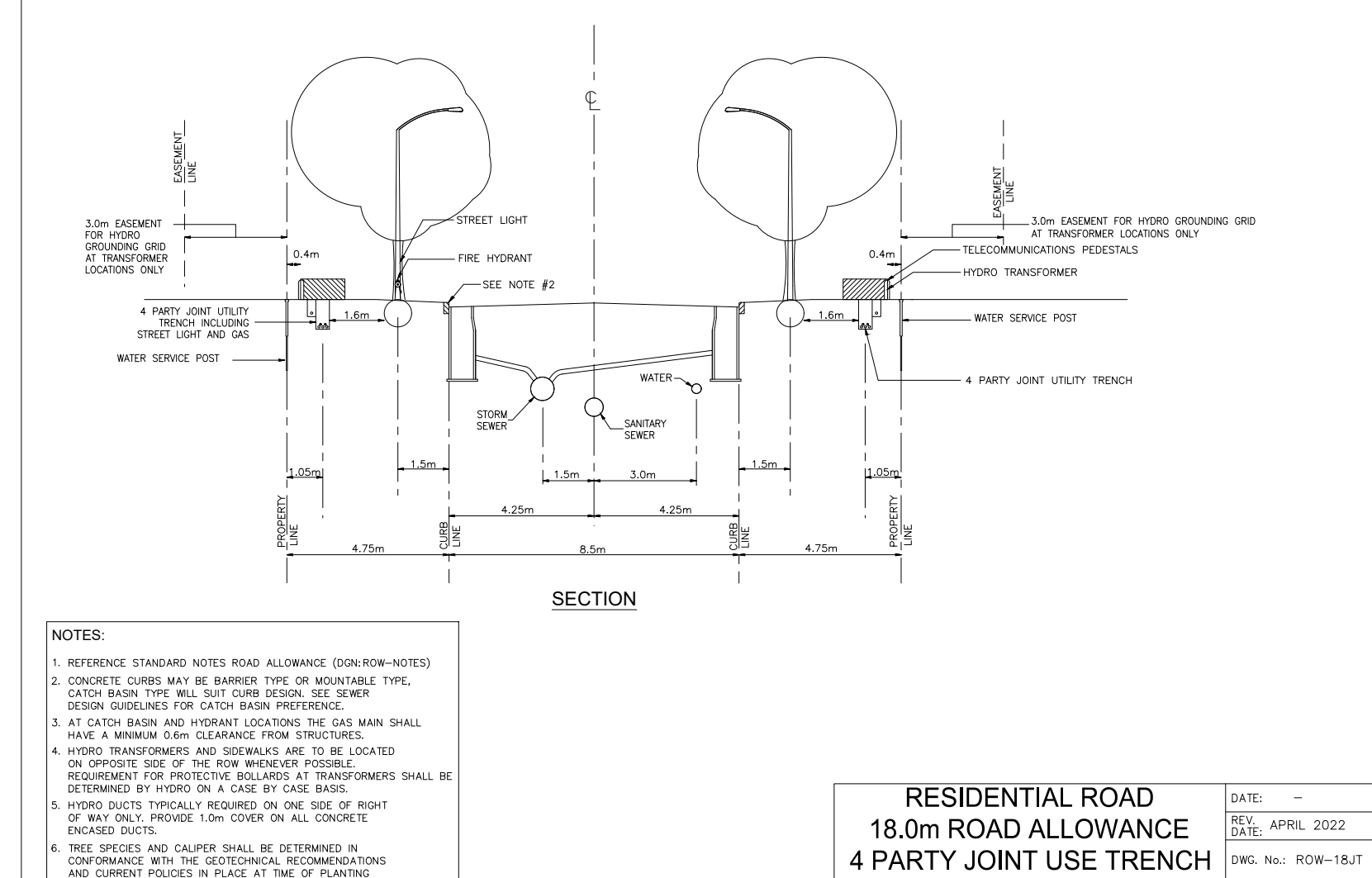


Pumice Place

NOTES:

1. THE STANDARDS INDICATE MINIMUM DIMENSIONS THAT ARE TO BE INCORPORATED INTO THE DESIGN OF ANY NEW DEVELOPMENT INCLUDING NEW AND EXISTING STREETS. ANY VARIATIONS TO THE DESIGN WILL REQUIRE APPROVAL OF THE CITY OF OTTAWA.
2. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH APPLICABLE CITY STANDARDS.
3. ALL COMPOSITE UTILITY PLANS MUST ADHERE TO THE CITY OF OTTAWA'S STANDARD LOCATION OF UTILITY PLANT DEVICES BY ORDER TO RECEIVE APPROVAL THROUGH THE SITE PLAN CONTROL AND SUBDIVISION APPROVALS PROCESS.
4. TYPICAL CROSS SECTION BOLLIVARD WIDTH SHALL BE MAINTAINED WHEN CONSTRUCTING CURB-TO-CURB AND CORNER LOTS REGARDLESS OF ROAD WAY GEOMETRY.
5. WATERMAIN AND HYDRANTS TO BE INSTALLED ON SOUTH AND EAST SIDE OF R.O.W. WHEN POSSIBLE.
6. SANITARY AND STORM SEWERS MAY BE INSTALLED OFF THE STREET CENTRELINE TO ACCOMMODATE LARGE SIZE SEWER PIPES AND STILL MAINTAIN THE CLEARANCES REQUIRED TO WATERMANS.
7. THE USE IN-ROAD CATCH BASINS INSTEAD OF CURB INLET CATCH BASINS SHALL BE APPROVED BY AN AUTHORIZED CITY REPRESENTATIVE.
8. THE USE OF BARRIER CURBS AND MOUNTABLE CURBS SHALL BE APPROVED BY AN AUTHORIZED CITY REPRESENTATIVE. MOUNTABLE CURBS SHALL BE SPECIFIED FOR TRUCK/TORNSHOW DEVELOPMENTS.
9. BOLLIVARD SEWERS AND WATER SERVICES ARE TO BE CONSTRUCTED AT LOCATIONS IN ACCORDANCE WITH CITY STANDARDS.
10. SANITARY AND STORM SERVICE CONNECTIONS WILL BE EXTENDED A MINIMUM OF 2.0m BEYOND THE PROPERTY LINE TO ALLOW FOR FUTURE CONNECTION. WATER SERVICE PIPE MATERIAL SHALL BE LAD IN ONE CONTINUOUS PIPE LENGTH (I.E. SPLICING AND JOINTS SHALL NOT BE PERMITTED FROM HOUSE FACE OF THE BUILDING TO THE CURBSTOP AND FROM THE CURBSTOP TO THE MAIN / CORPORATION STOP.
11. 1.5m CLEARANCE TO BE MAINTAINED AROUND WATER SERVICE POST.
12. REFER TO UCC PROCEDURE MANUAL FOR UTILITY SPECIFICATION CONCERNING PLANT INSTALLATIONS.
13. TRANSFORMERS AND PEDESTALS SHALL BE LOCATED BETWEEN TOWNHOUSE BUILDING BLOCKS RATHER THAN ENCROACHING ANY/ OR PREVENTING THE INSTALLATION OF ROAD ALLOWANCE TREES.
14. ALL PEDESTALS TO BE INSTALLED IN LINE WITH HYDRO TRANSFORMERS ON HOUSE SIDE OF TRENCH.
15. THE BASE OF A HYDRO TRANSFORMER MUST BE LOCATED A MINIMUM OF 2.0m FROM THE EDGE OF A DRIVEWAY.
16. REQUIREMENTS FOR PROTECTIVE BOLLIVARDS AT TRANSFORMERS SHALL BE DETERMINED BY HYDRO OR HYDRO ONE ON A CASE BY CASE BASIS.
17. SERVICE LATERALS MUST BE LOCATED A MINIMUM OF 3.0m FROM THE BASE OF A HYDRO TRANSFORMER.
18. STREET LIGHT CABLE SHALL BE PLACED IN JOINT USE TRENCH. STREET LIGHT CABLE SHALL BE AT SAME OFFSET AS STREET LIGHTS WHEN JOINT USE TRENCH NOT CONSTRUCTED.
19. TRAFFIC DUCT ALTERNATIVE PLACEMENT LOCATIONS ARE:
 - 1) JOINT USE TRENCH (LEFT) LOCATION OR
 - 2) SAME OFFSET AS STREETLIGHT POLES IN A SEPARATE TRENCH.
20. OPTIONAL LOCATION FOR THE TRAFFIC COMMUNICATIONS DUCT IS A TRENCH LOCATED AT THE SAME OFFSET AS THE STREETLIGHT POLES.
21. TRAFFIC ELECTRICAL DUCTS SHALL BE PLACED IN JOINT USE DUCT BANKS.
22. TRAFFIC HANDHOLES MAY BE LOCATED IN THE BOLLIVARD AREA ADJACENT TO THE SEWERMAK.
23. USE OF THE FOUR PARTY-UTILITY TRENCH WILL BE CONSIDERED AS AN OPTION, BUT REQUIRES THE AGREEMENT OF ALL UTILITIES PRIOR TO THE DEVELOPMENT OF THE COMPOSITE UTILITY PLAN AND MUST BE IN CONFORMANCE WITH THE GUIDELINES ESTABLISHED BY THE OTTAWA UTILITY COORDINATING COMMITTEE.
24. THE DEVELOPER SHALL SUPPLY AND INSTALL DUCTS FOR UTILITY CROSSINGS AT INTERSECTIONS.
25. ONE TREE PER LOT TYPICAL. 3 TREES ON CORNER LOT WITH ONE OF THE TREES ON THE STREET SIDE OF THE LOT.

STANDARD NOTES ROAD ALLOWANCE



Andesite Terrace (STA. 0+120.185 TO STA. 0+239.001)

REVIEWED BY DEVELOPMENT REVIEW BRANCH

Signed: *[Signature]*

Date: **June 7, 2024**

Plan Number: **17803**

TOPOGRAPHIC INFORMATION
RIDEAU FRONT (JULY 10, 2019) AND BORRISOKANE ROAD (JULY 10, 2019)
PROVIDED BY STANTEC (PROJECT No. 18-10-145-00)

LEGAL INFORMATION
M-PLAN PROVIDED BY J.D. BARNES., PROJECT No. 19-10-074-00, DATED ON FEBRUARY 9, 2024.

ELEVATION NOTE
ELEVATIONS SHOWN HEREON ARE GEODETIC (CGVD-1928-1978) AND ARE DERIVED FROM THE CAN-NET VRS NETWORK MONUMENT, OTTAWA.
ELEVATION = 95.205m

No.	BY	DATE	DESCRIPTION
5	W.L.	24-06-03	REVISED PER CITY COMMENTS
4	W.L.	24-05-17	REVISED PER CITY GRADING COMMENTS, CUP, AND GRDD
3	W.L.	24-04-12	ISSUED FOR CONSTRUCTION
2	W.L.	24-03-21	2nd SUBMISSION
1	W.L.	24-01-19	1st SUBMISSION

Ottawa CITY OF OTTAWA

PROJECT No. 19-1123

STANDARD ROADWAY CROSS SECTIONS

CAIVAN COMMUNITIES THE RIDGE PHASE 4

DSEL 120 Iher Road, Unit 103
Stittsville, ON K2S 1E9
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DRAWN BY: V.W. CHECKED BY: W.L. SHEET No. 2
DESIGNED BY: W.L. CHECKED BY: C.M.
SCALE: 1:1000 DATE: MAY 2023

CITY PLAN No. 17803
CITY FILE No. D07-16-20-0015

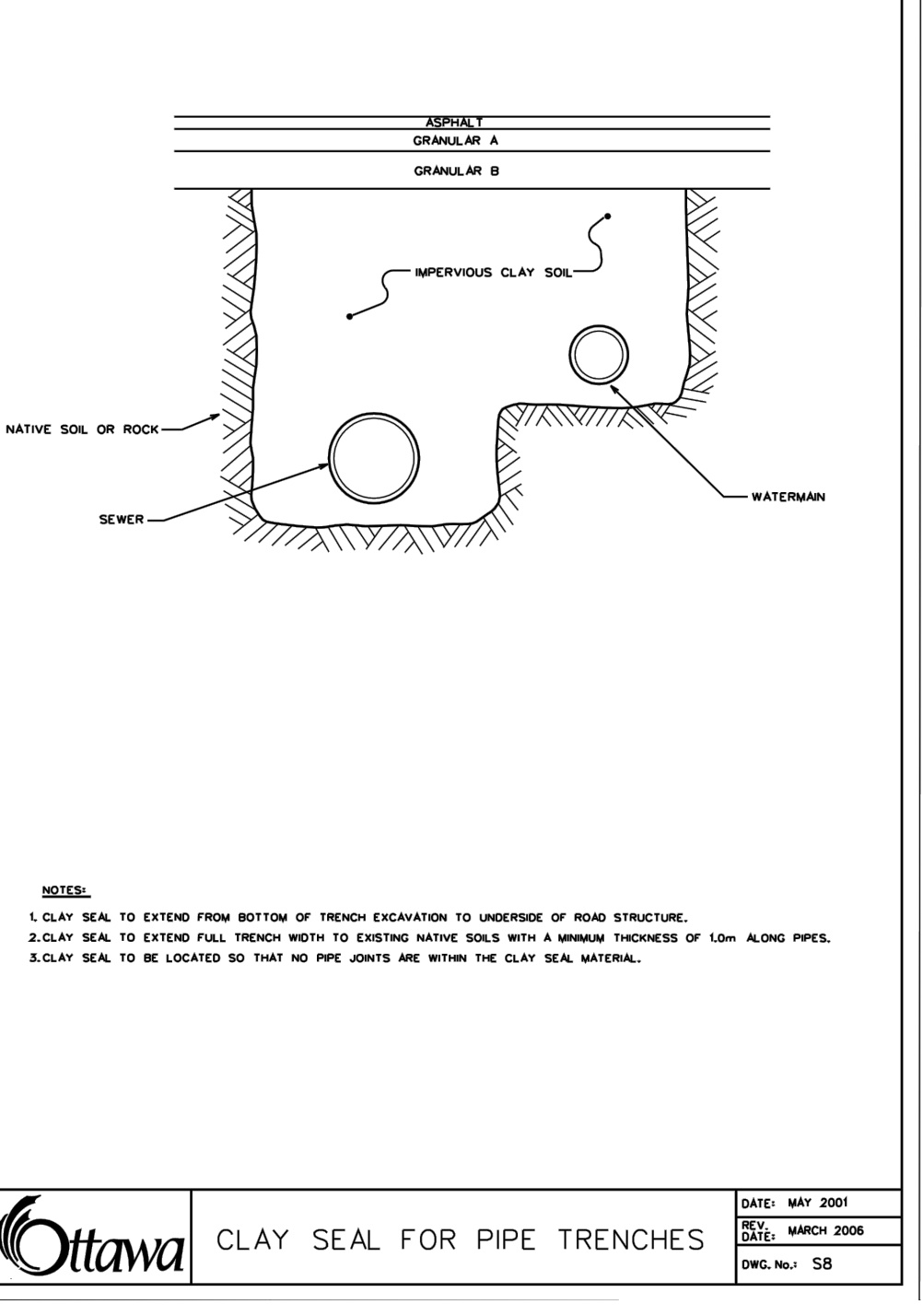
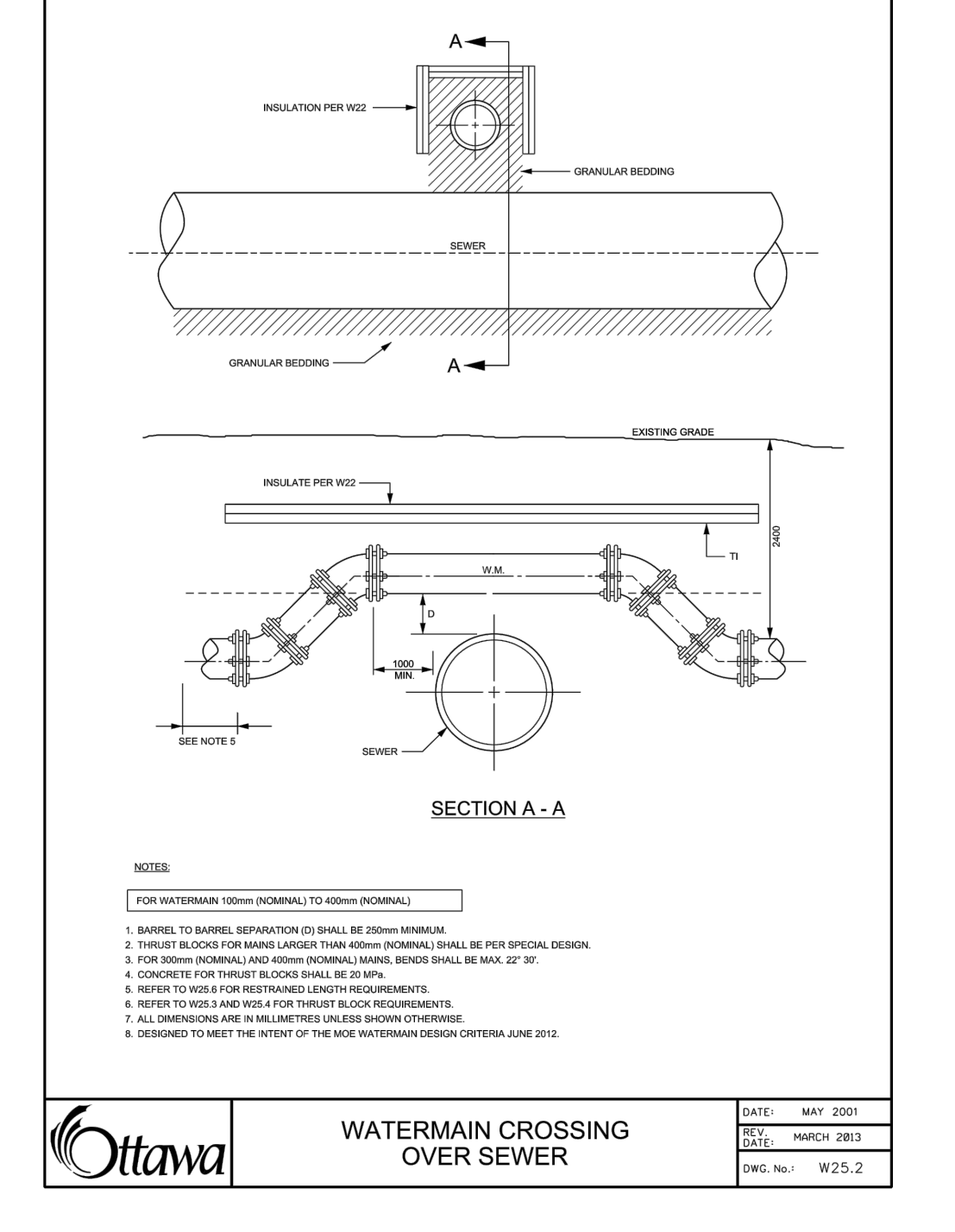
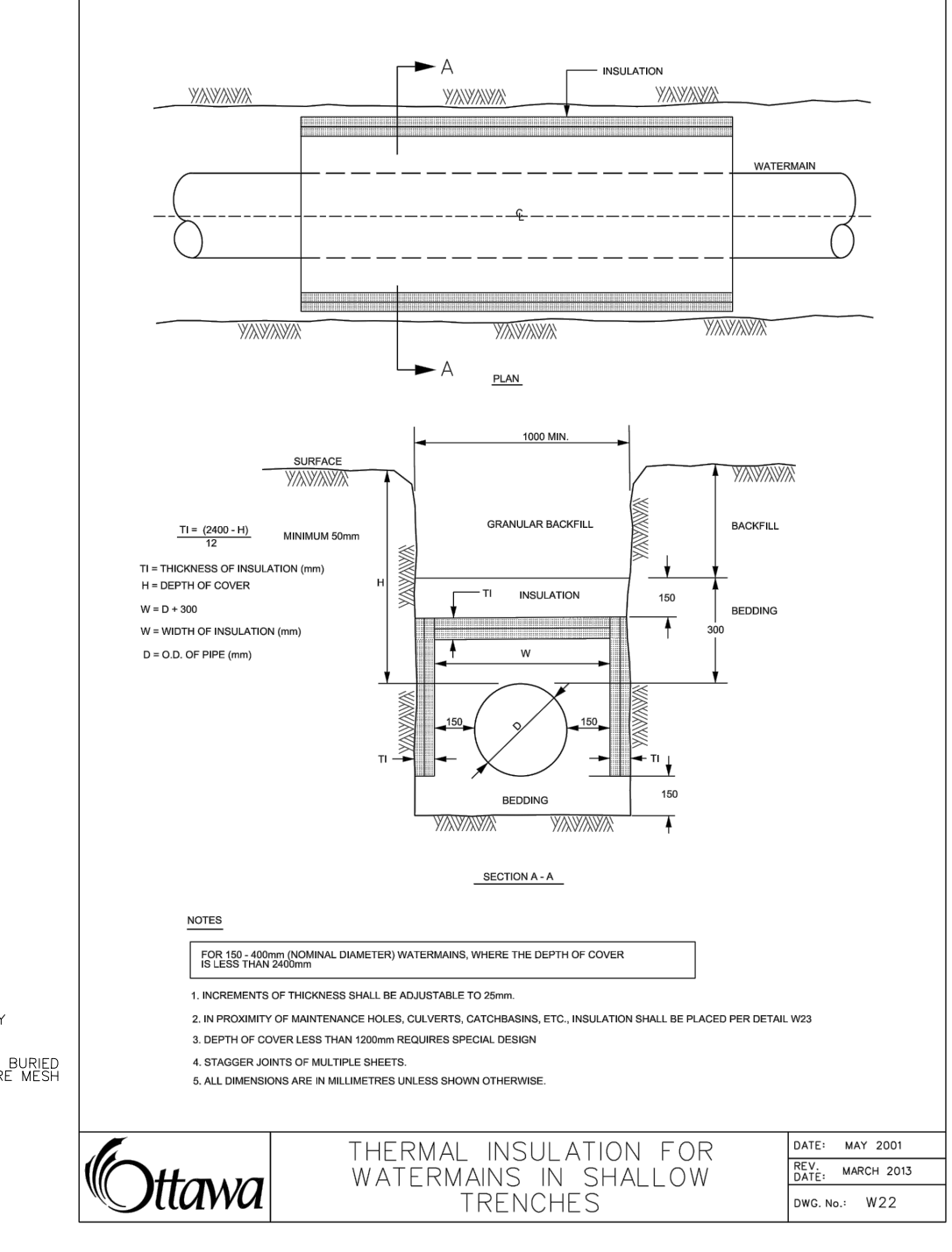
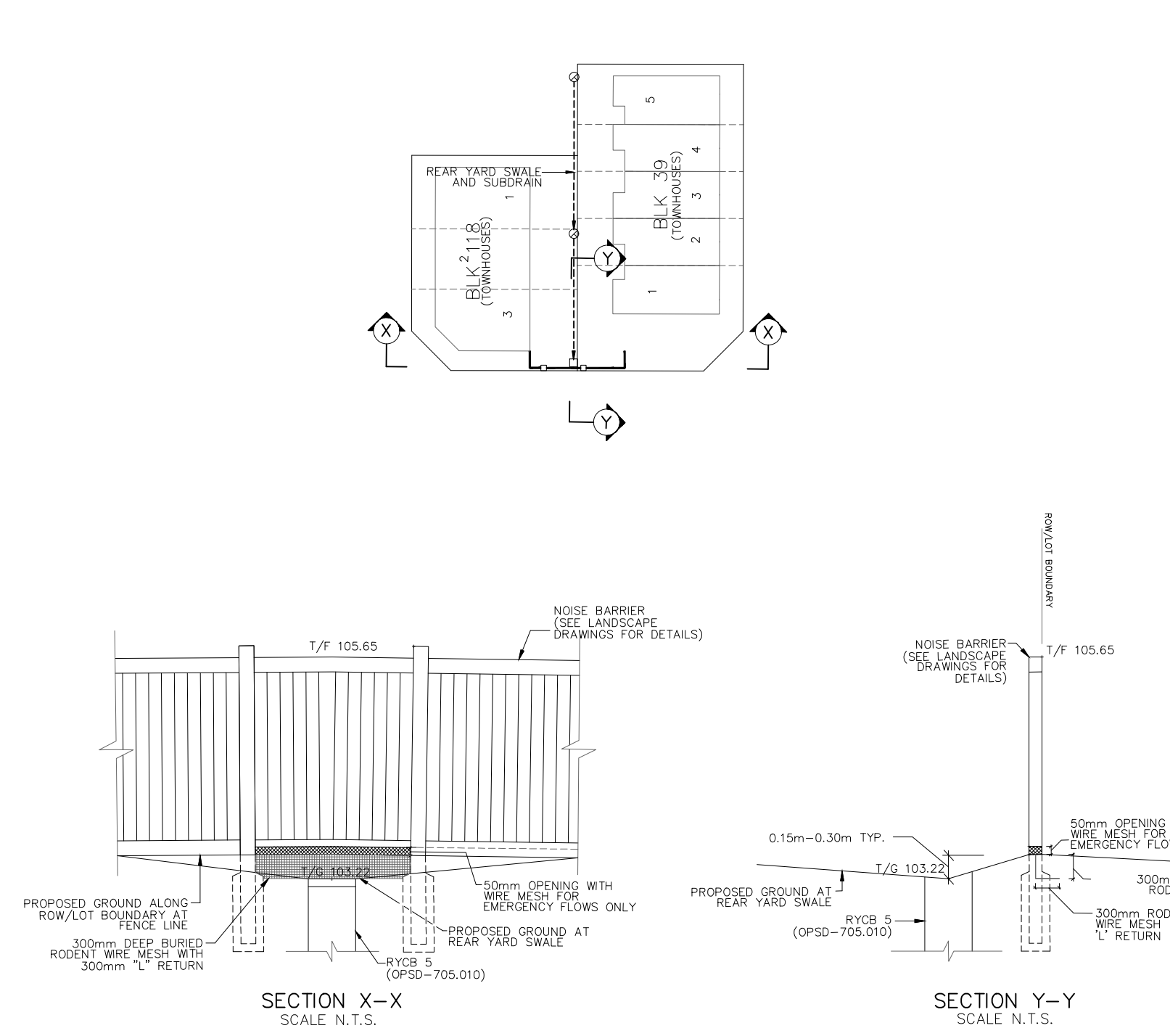
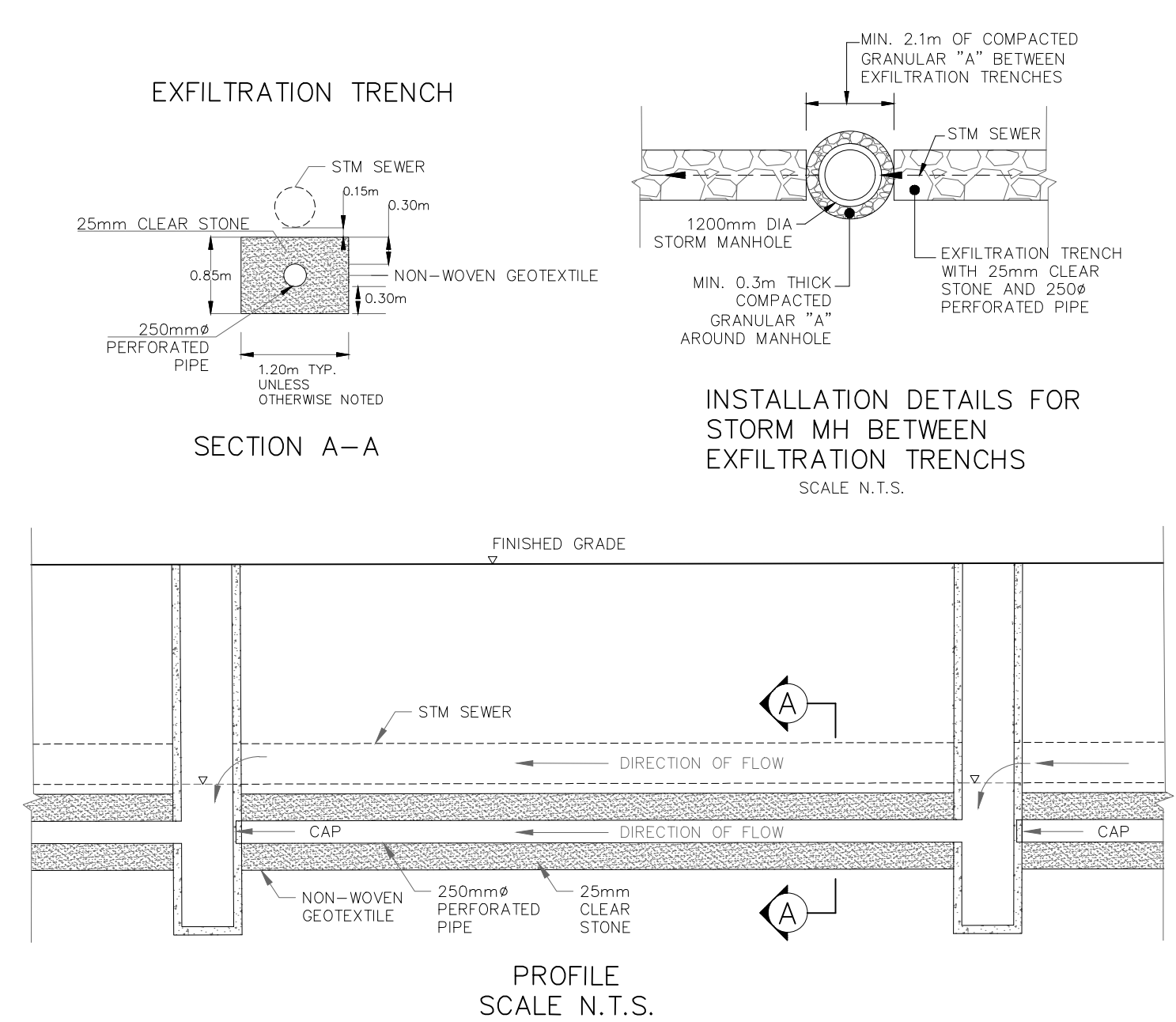
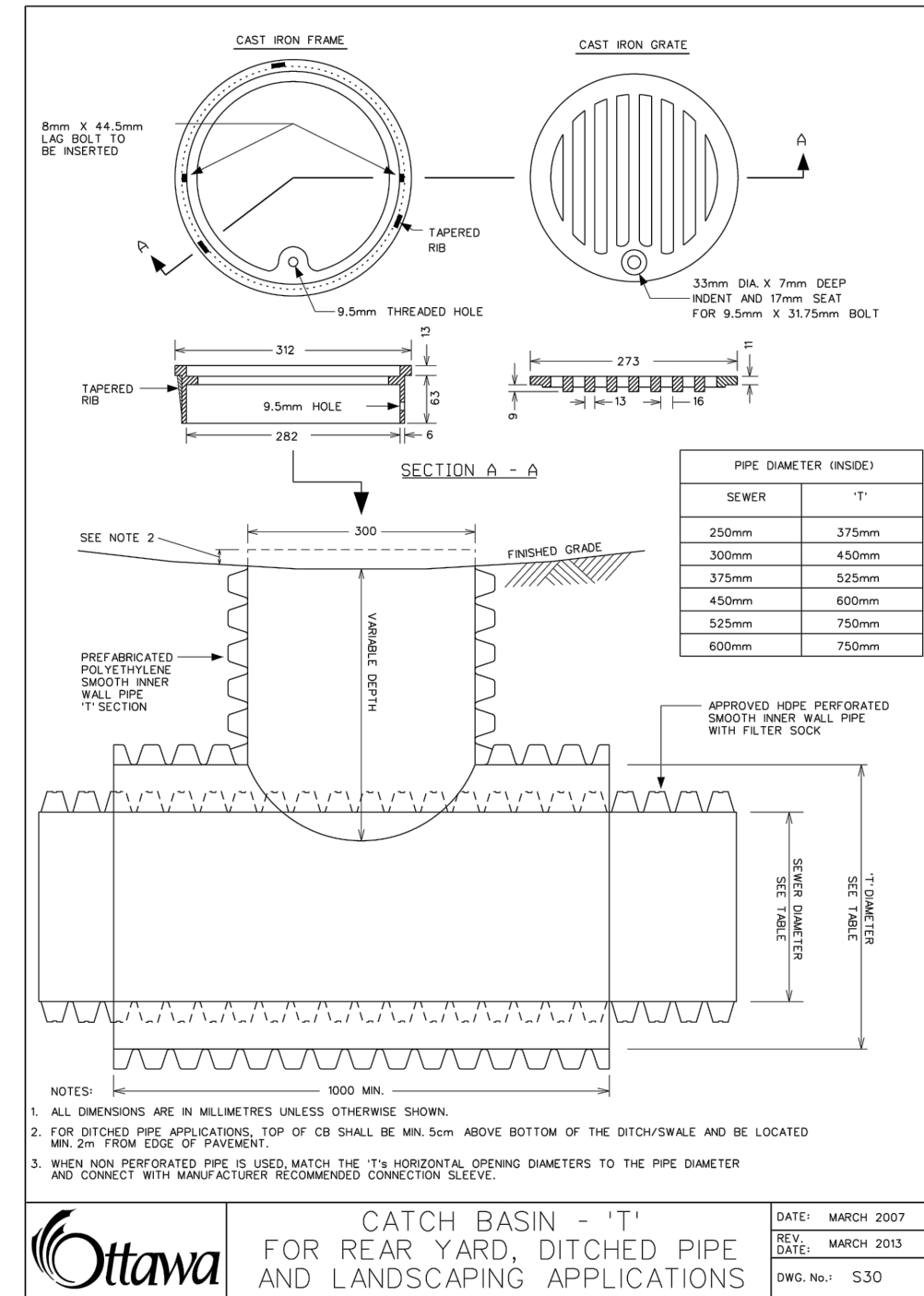
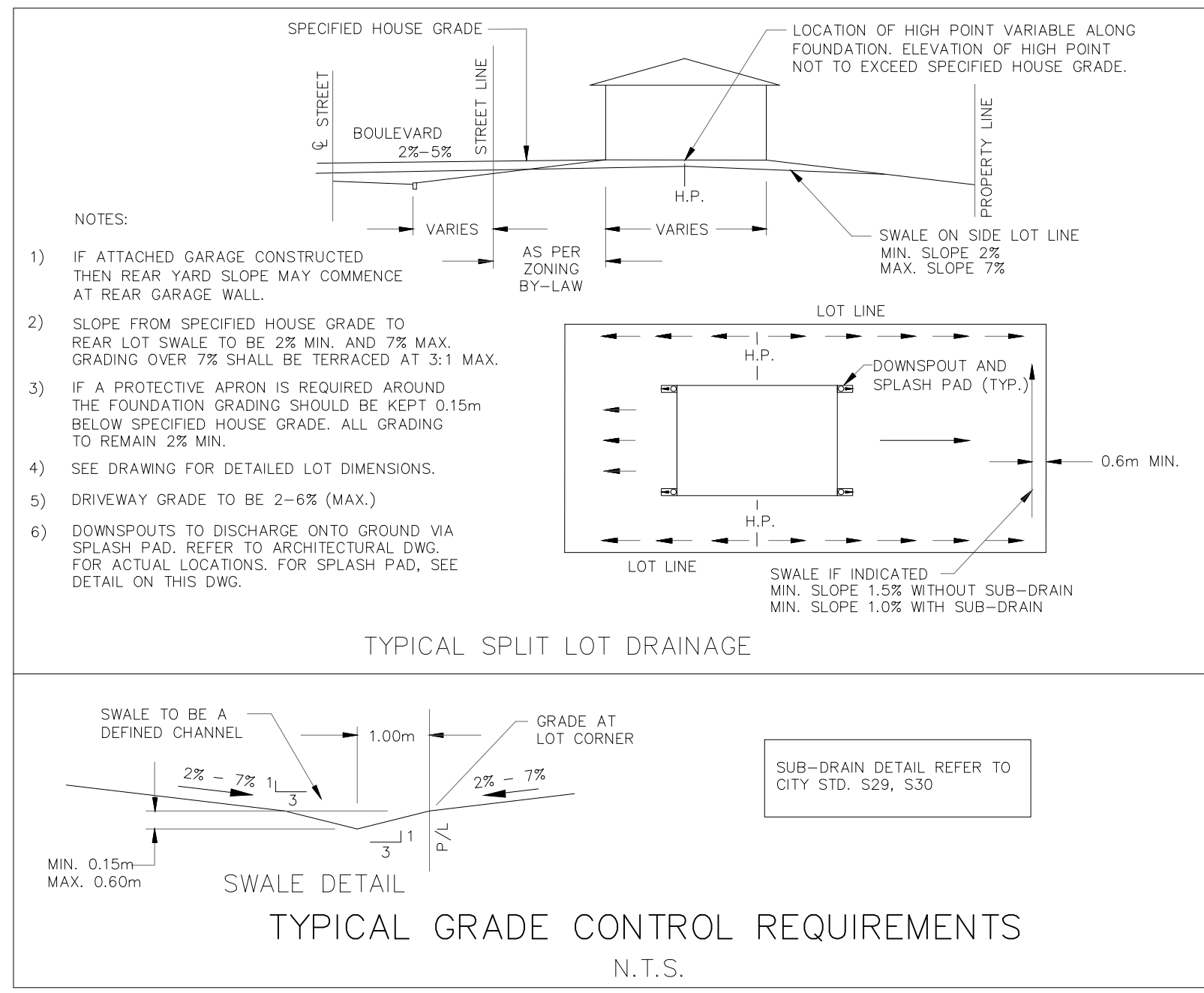
CURB TYPE AND PAVEMENT DESIGN TABLE			
STREET NAME	CURB TYPE	CURB STANDARD	PAVEMENT DESIGN
ANDESITE TERRACE (NORTH SIDE) (STA. 0+016.3551 TO 0+120.188) ANDESITE TERRACE (EAST SIDE) (STA. 0+120.188 TO 0+172.182) (STA. 0+184.537 TO 0+283.199) ANDESITE TERRACE (WEST SIDE) (STA. 0+128.861 TO 0+229.304) PUMICE PLACE (WEST SIDE) (STA. 0+020.520 TO 0+174.583) PUMICE PLACE (EAST SIDE) (STA. 0+074.311 TO 0+173.999)	CONCRETE MOUNTABLE CURB	SC1.3	-40mm SUPERPAVE 12.5 ASPHALTIC CONCRETE -50mm SUPERPAVE 19.0 ASPHALTIC CONCRETE -150mm OPSS GRANULAR A CRUSHED STONE -400mm OPSS GRANULAR B TYPE II
ANDESITE TERRACE PUMICE PLACE	CONCRETE BARRIER CURB	SC1.1	-40mm SUPERPAVE 12.5 ASPHALTIC CONCRETE -50mm SUPERPAVE 19.0 ASPHALTIC CONCRETE -150mm OPSS GRANULAR A CRUSHED STONE -400mm OPSS GRANULAR B TYPE II

REVIEWED BY DEVELOPMENT REVIEW BRANCH

Signed: *[Signature]*

Date: June 7, 2024

Plan Number: 17803



LID INSTALLATION NOTES:

THE FACILITY SHOULD BE EXCAVATED TO DESIGN DIMENSIONS FROM THE SIDE USING A BACKHOE OR EXCAVATOR. THE BASE OF THE FACILITY SHOULD BE LEVEL OR NEARLY LEVEL.

THE BOTTOM OF THE FACILITY SHOULD BE SCARIFIED TO IMPROVE INFILTRATION. AN OPTIONAL 150 MM OF SAND COULD BE SPREAD FOR THE BOTTOM FILTER LAYER. THE MONITORING WELL SHOULD BE ANCHORED AND STONE SHOULD BE ADDED TO THE FACILITY IN 0.3-METRE LIFTS.

GEOTEXTILE FABRIC SHOULD BE CORRECTLY INSTALLED IN THE SOAKAWAY OR INFILTRATION TRENCH EXCAVATION. LARGE TREE ROOTS SHOULD BE TRIMMED FLUSH WITH THE SIDES OF THE FACILITY TO PREVENT PUNCTURING OR TEARING OF THE FABRIC DURING SUBSEQUENT INSTALLATION PROCEDURES.

WHEN LAYING OUT THE GEOTEXTILE, THE WIDTH SHOULD INCLUDE SUFFICIENT MATERIAL TO COMPENSATE FOR PERIMETER IRREGULARITIES IN THE FACILITY AND A 150 MM MINIMUM TOP OVERLAP. VOIDS MAY OCCUR BETWEEN THE FABRIC AND THE EXCAVATED SIDES OF THE FACILITY. NATURAL SOILS SHOULD BE PLACED IN ANY VOIDS TO ENSURE FABRIC CONFORMITY TO THE EXCAVATION SIDES.

TOPOGRAPHIC INFORMATION

RIDEAU FRONT (JULY 10, 2019) AND BORRISOKANE ROAD (JULY 10, 2019)
PROVIDED BY STANTEC (PROJECT No. 18-10-145-00)

LEGAL INFORMATION

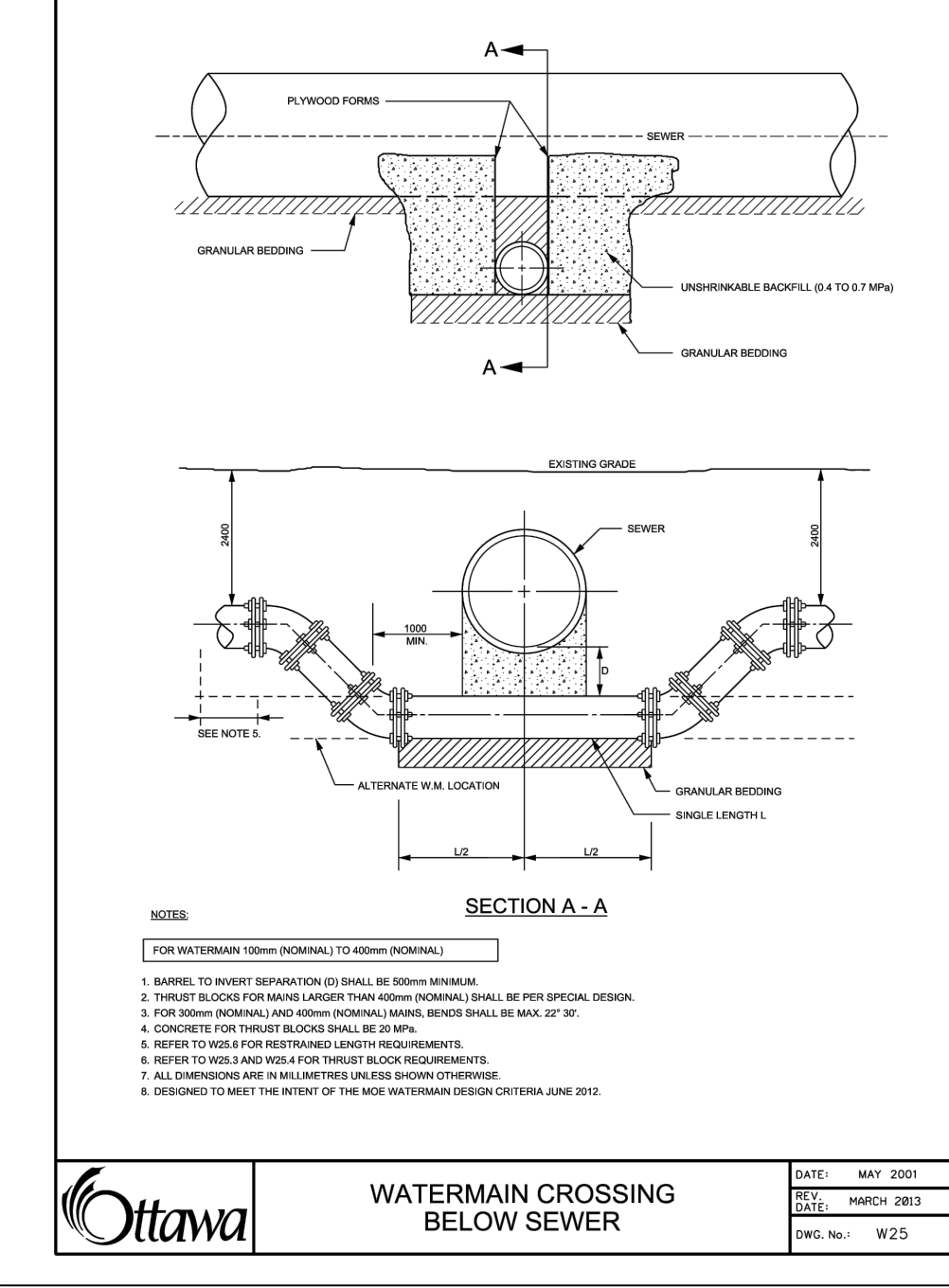
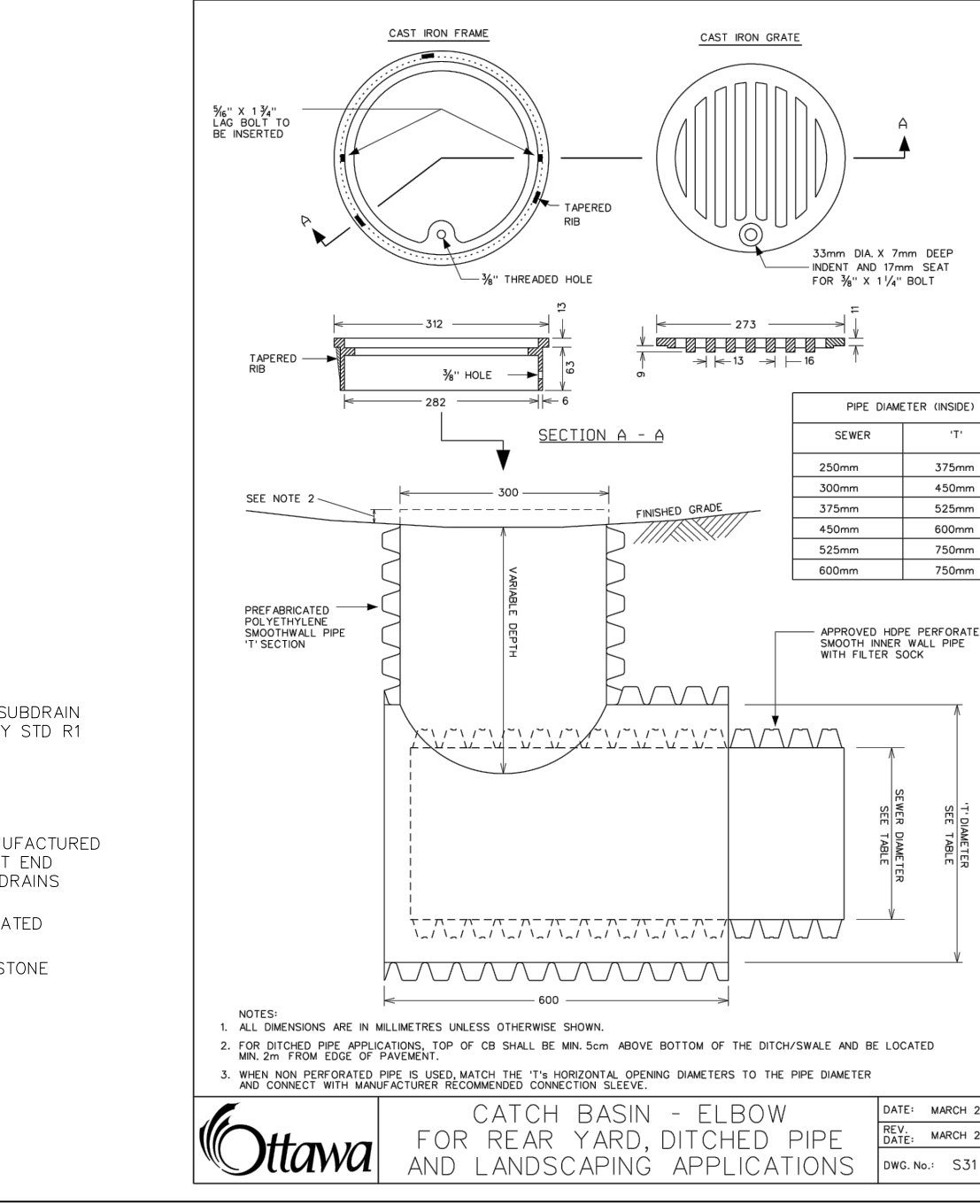
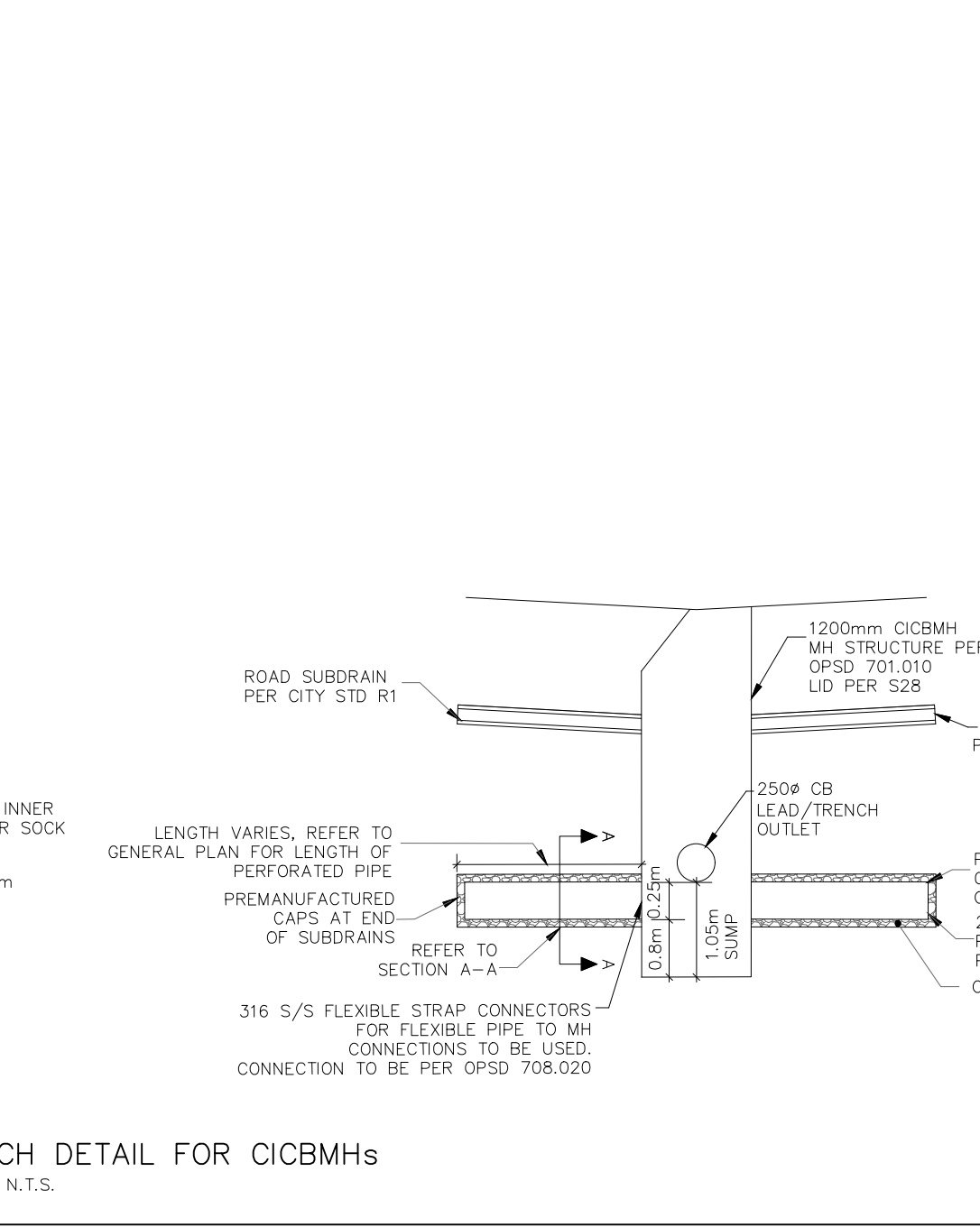
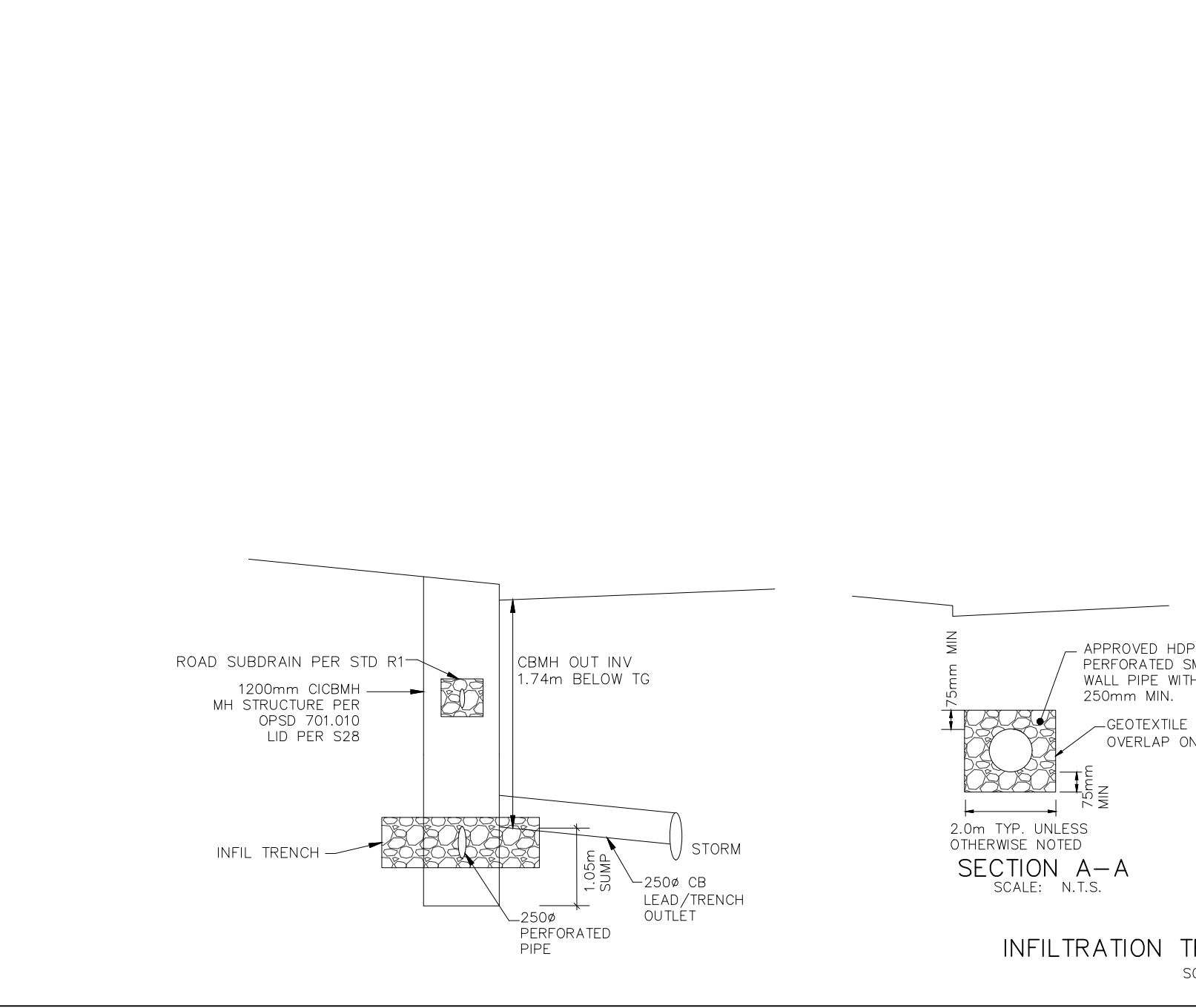
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ELEVATION NOTE

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ELEVATION = 95.205m

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CITY OF OTTAWA

PROJECT No. 19-1123

DETAILS

CAIVAN COMMUNITIES

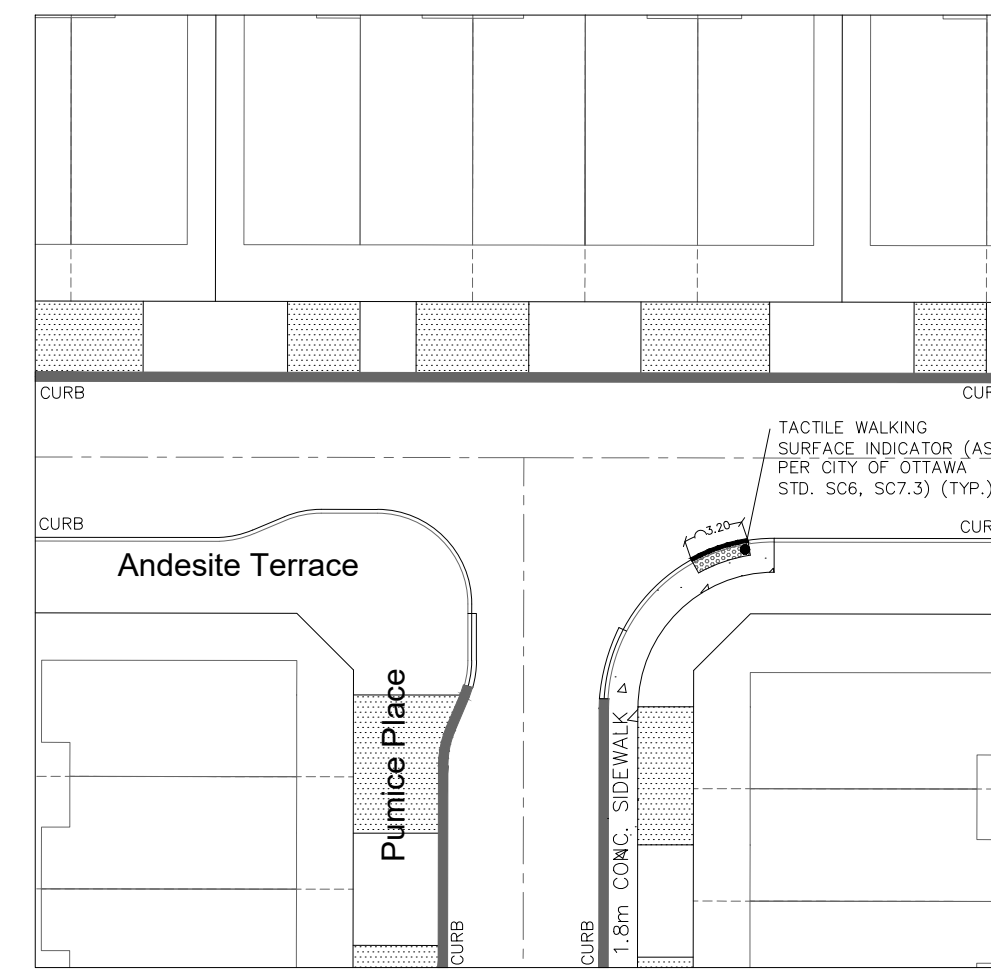
THE RIDGE PHASE 4

DSEL

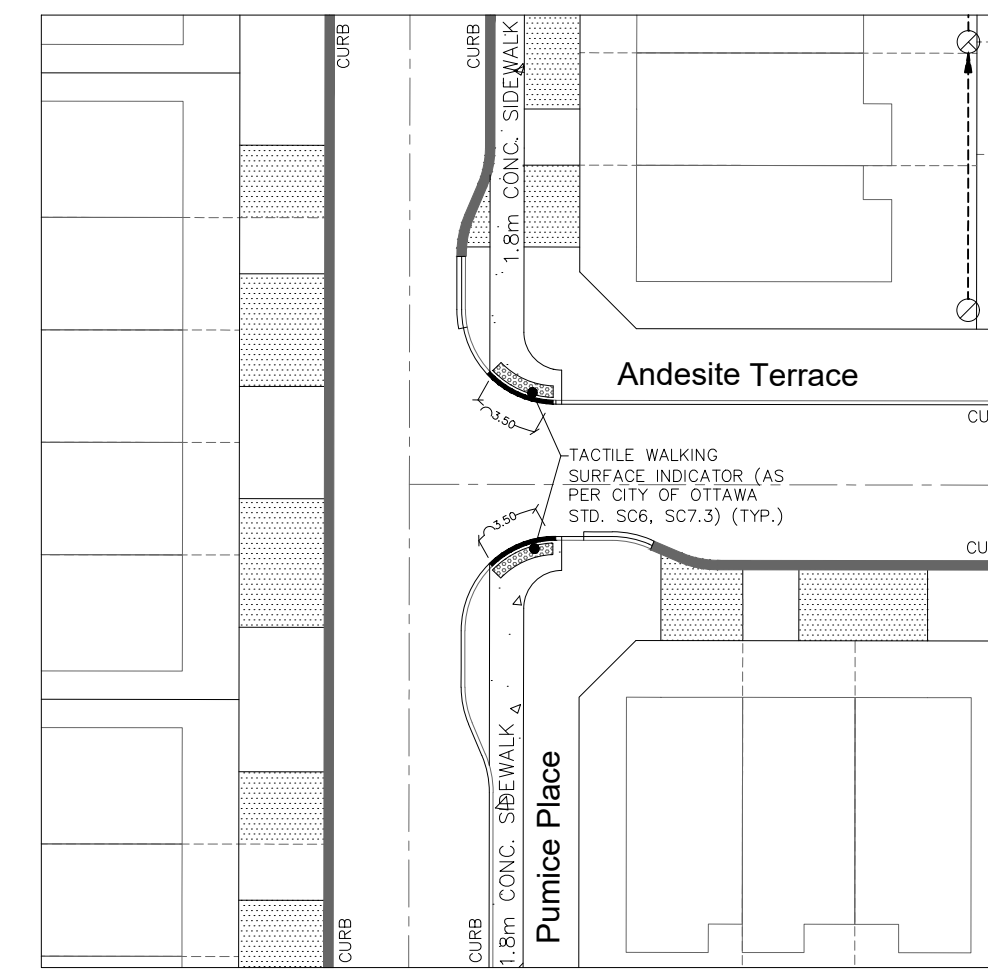
120 Iler Road, Unit 103
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Tel: (613) 836-0566
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www.DSEL.ca

DRAWN BY: V.W. CHECKED BY: W.L. SHEET No. 4
DESIGNED BY: W.L. CHECKED BY: C.M.
SCALE: 1:1000 DATE: MAY 2023

CITY PLAN No. 17803
CITY FILE No. D07-16-20-0015



SINGLE CROSSWALK INTERSECTION
Andesite Terrace at Pumice Place
SCALE 1:400



SINGLE CROSSWALK INTERSECTION
Andesite Terrace at Pumice Place
SCALE 1:400

REVIEWED BY DEVELOPMENT REVIEW BRANCH

Signed *[Signature]*

Date **June 7, 2024**

Plan Number **17803**

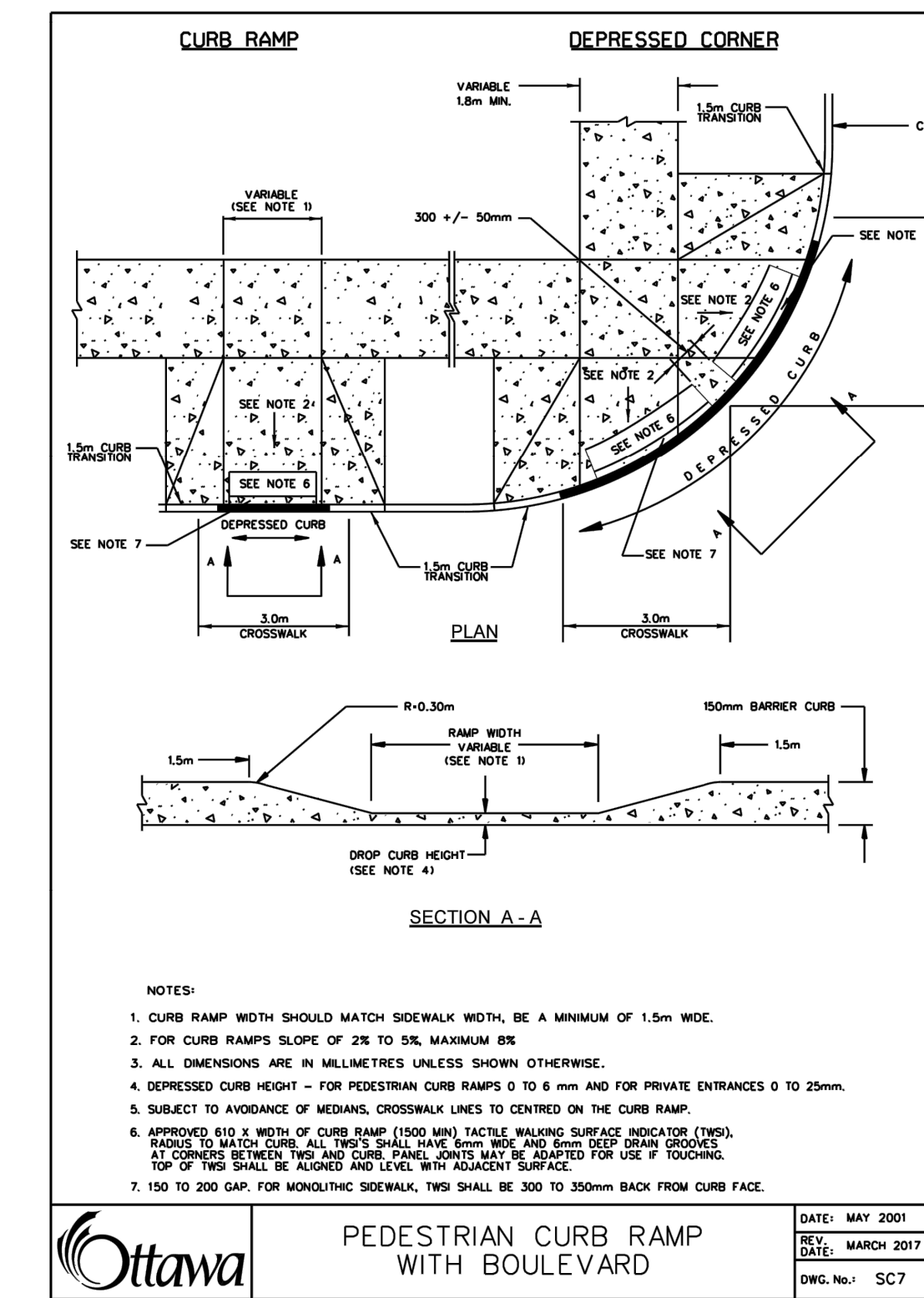
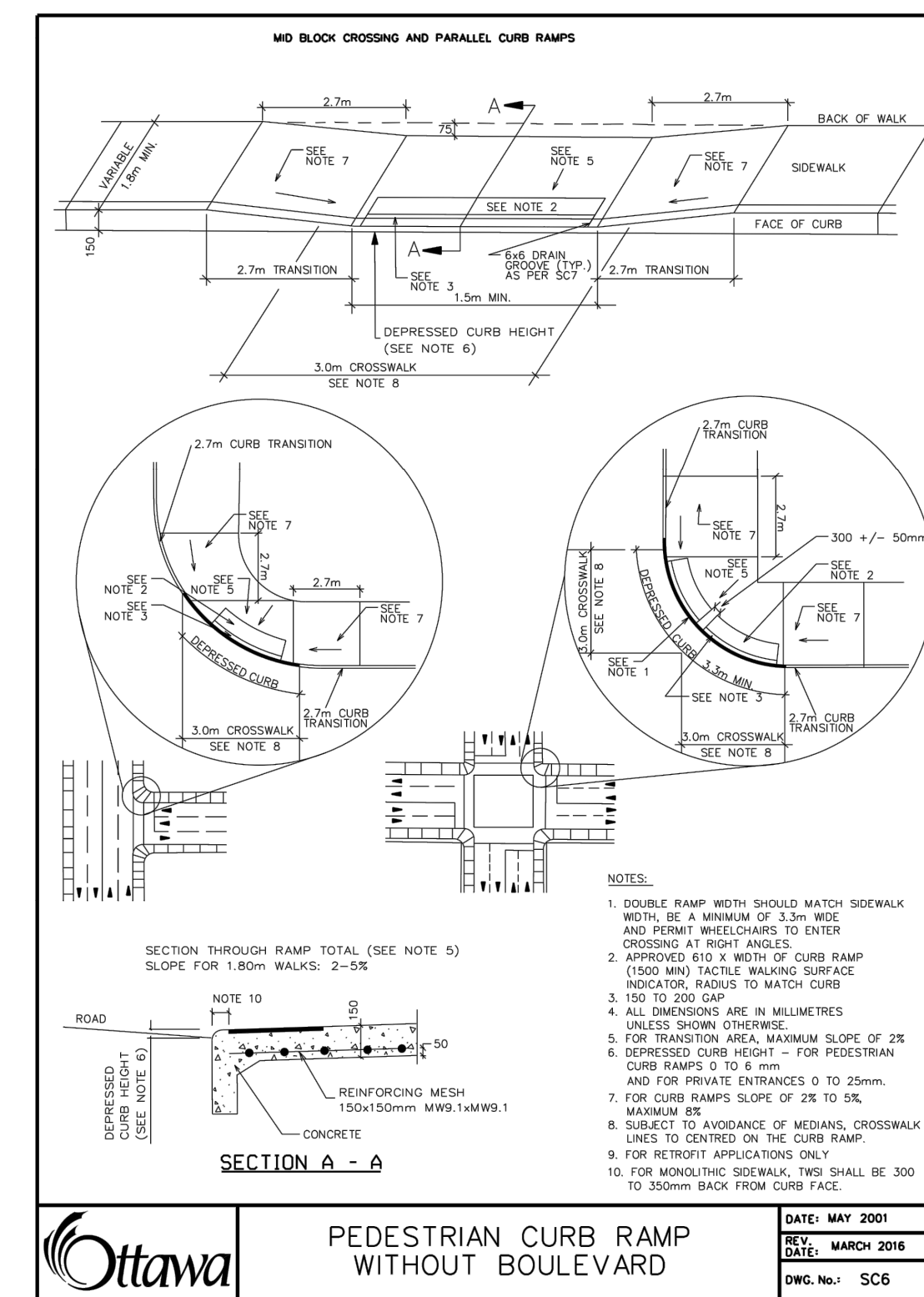
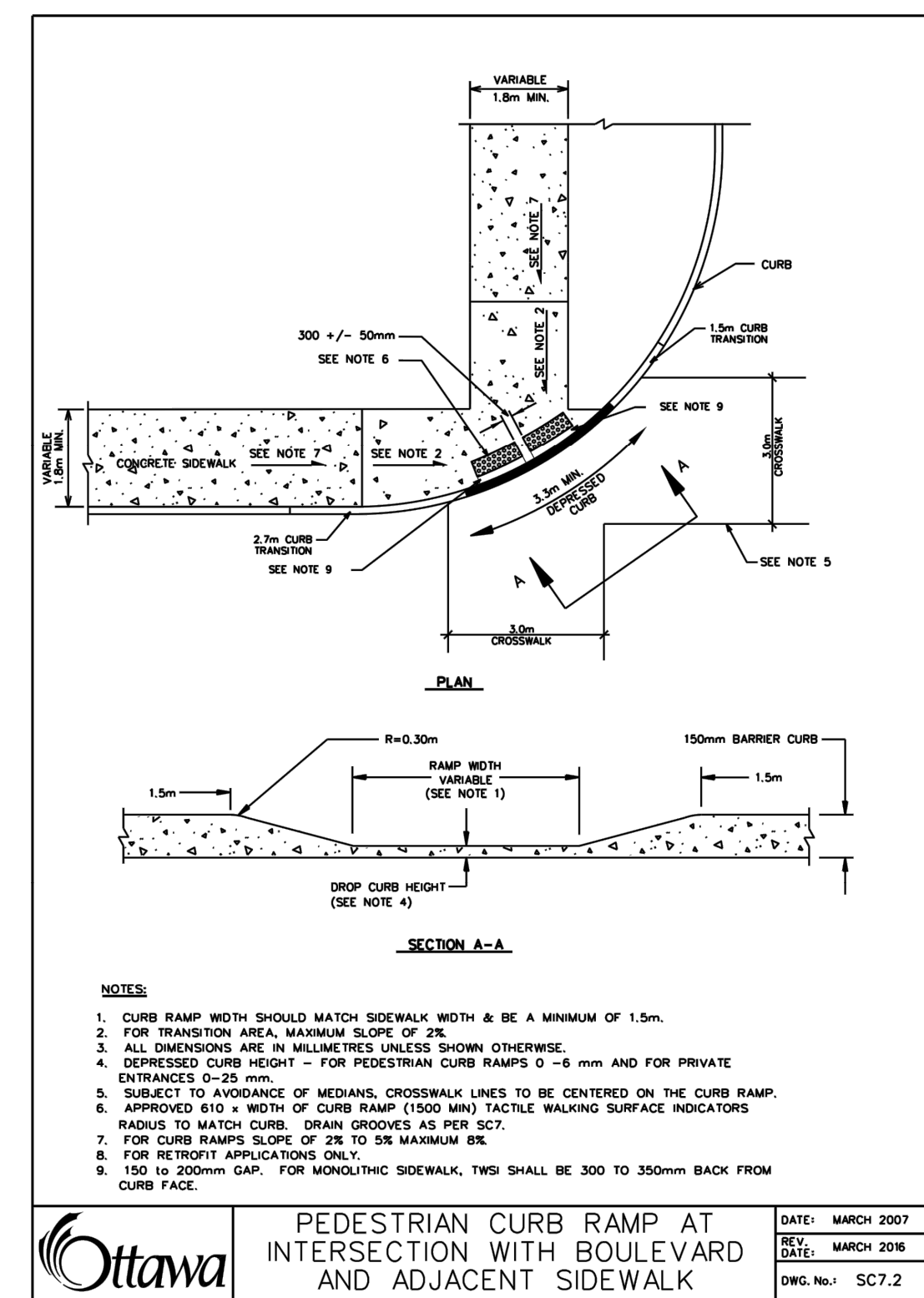
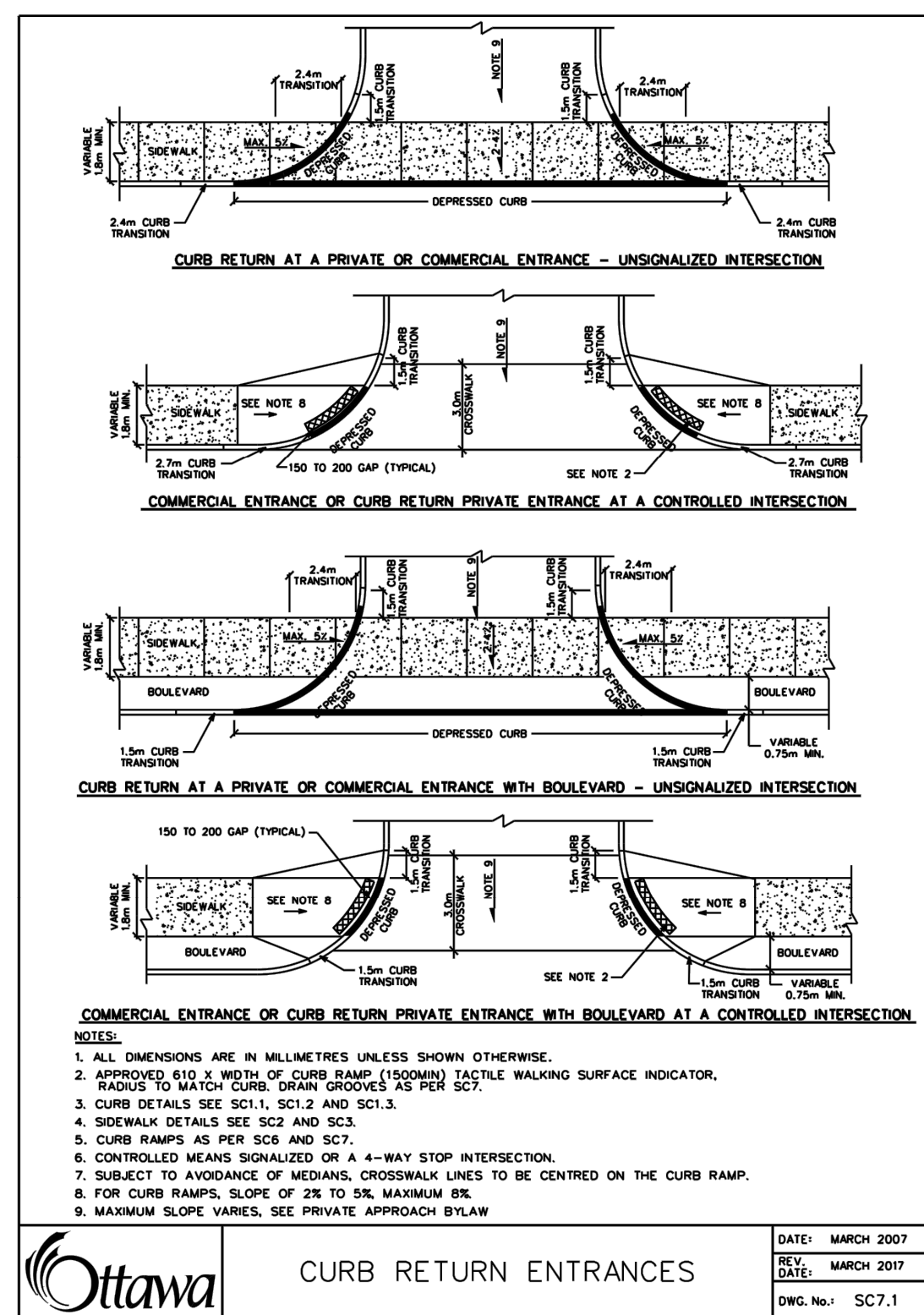
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2	W.L.	24-03-21	2nd SUBMISSION
1	W.L.	24-01-19	1st SUBMISSION



CITY OF OTTAWA

PROJECT No. 19-1123

TWSI DETAILS

CAIVAN COMMUNITIES THE RIDGE PHASE 4

DSEL 120 Ibor Road, Unit 103
Stittsville, ON K2S 1E9
Tel. (613) 836-0566
Fax. (613) 836-7183
www.DSEL.ca

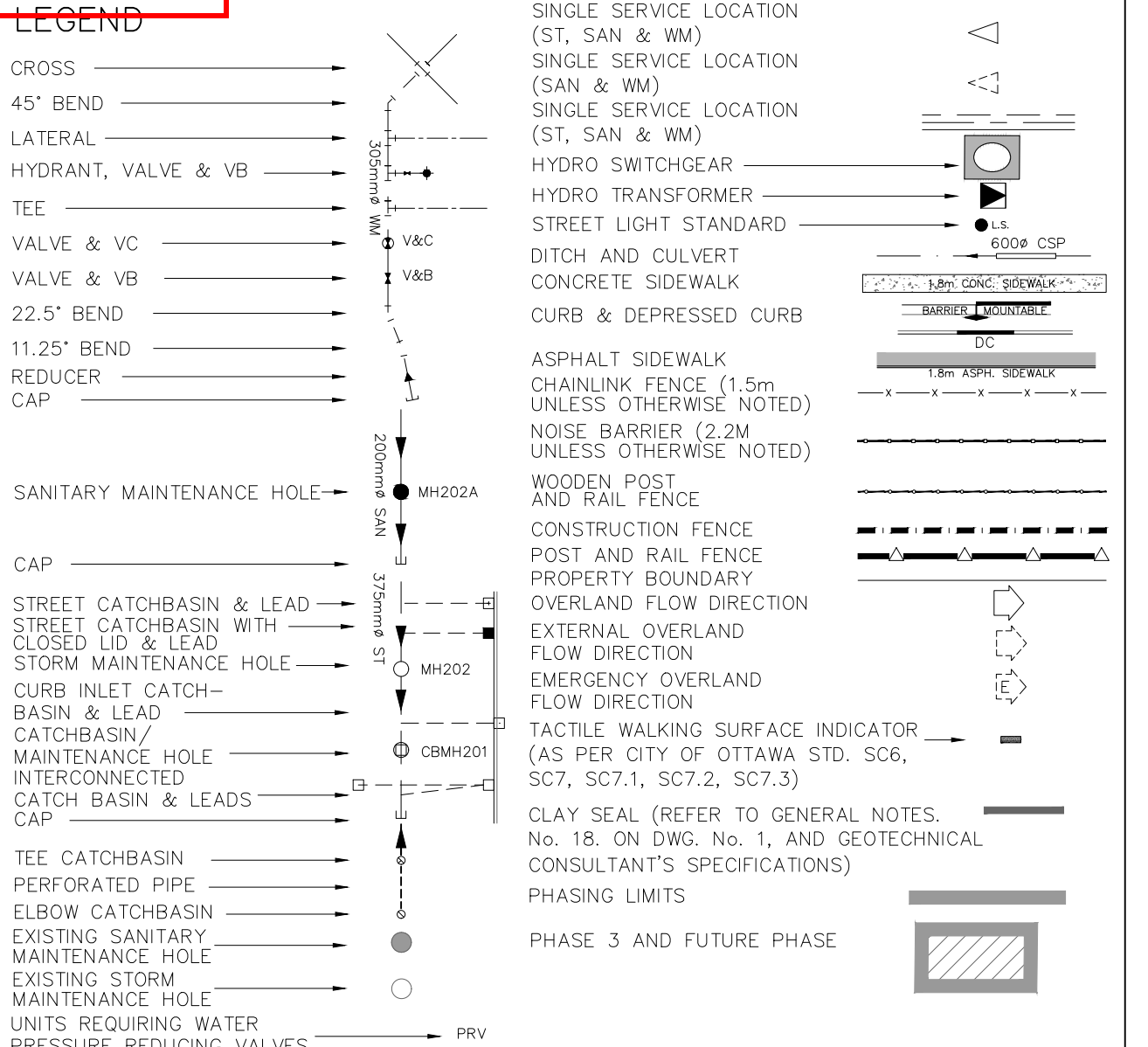
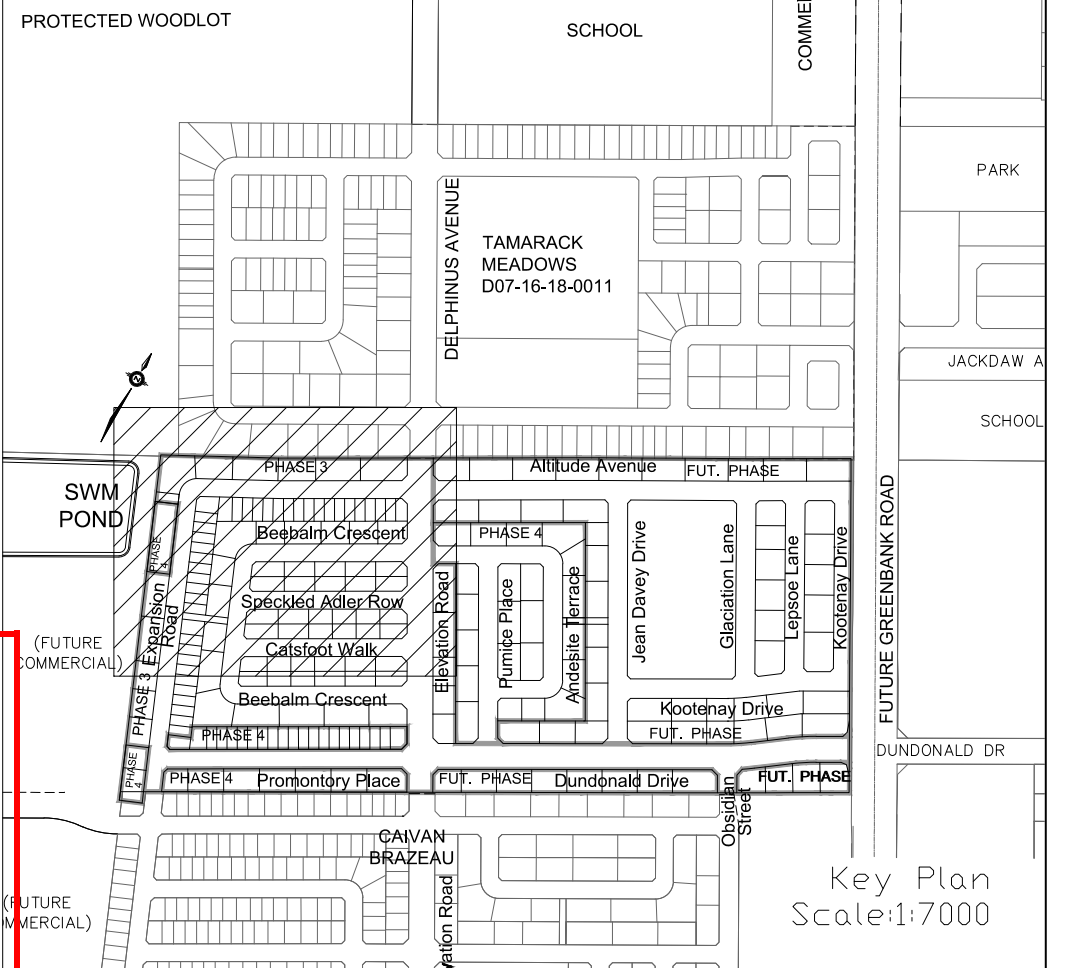
DRAWN BY: V.W. CHECKED BY: W.L. SHEET No.
DESIGNED BY: W.L. CHECKED BY: C.M.
SCALE: AS SHOWN DATE: MAY 2023 5

CITY PLAN No. 17803
CITY FILE No. D07-16-20-0015

THE MEADOWS IN HALF MOON BAY SUBDIVISION
REFER TO
DAVID SCHAEFFER ENGINEERING LIMITED
PROJECT No. 19-1089



REVIEWED BY DEVELOPMENT REVIEW BRANCH
Signed: [Signature]
Date: June 7, 2024
Plan Number: 17803



REFER TO DWG No. 8

NOTES:

1. ANY DISTURBED AREA DURING CONSTRUCTION TO BE RESTORED TO THE ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITIES HAVING JURISDICTION.
2. CONTRACTOR TO VERIFY THE PRECISE LOCATION AND INVERT ELEVATIONS OF EX. UNDERGROUND SERVICES AND EX. UTILITIES PRIOR TO STARTING CONSTRUCTION.
3. ALL EXISTING ABOVE GROUND FEATURES, E.G. MH/CHAMBER COVERS, PEDESTALS, HYDRO AND LIGHT POLES, ETC. AFFECTED BY THE DEVELOPMENT TO BE ADJUSTED TO SUIT TO THE SATISFACTION OF PARTIES AFFECTED.
4. ALL EXISTING BUILDING, SHED, POST & WIRE FENCE, CHAIN LINK FENCE, TREE UTILITY WIRE, POLE, CULVERT AND POOL WITHIN LOTS AND BLOCKS TO BE REMOVED, UNLESS OTHERWISE NOTED.
5. ALL EXISTING POST & WIRE FENCE, CULVERTS, UTILITY WIRE / POLES, TREES, SHRUBS ETC. WITHIN LOTS, BLOCKS AND ROADS TO BE REMOVED, UNLESS OTHERWISE NOTED.
6. PERMISSION REQUIRED FOR REMOVAL OF EXISTING TREES ON EXTERNAL LANDS WHERE APPLICABLE.
7. PERMISSION REQUIRED FOR WORK ON ADJACENT LANDS.
8. FOR ICD APPLICATION, REFER TO DETAILS AND TABLE DRAWING (DWG.3) FOR DETAIL.
9. FOR R/CB LAYOUT & TYPICAL EASEMENT DETAIL REFER TO DRAWING NO. 17803-01.
10. ANY DISTURBED MATERIAL ENCOUNTERED BELOW THE SUBGRADE LEVEL WITHIN A BUILDING FOOTPRINT TO BE REMOVED, SUB-EXCAVATED AND BACKFILLED WITH COMPACTED ENGINEERED FILL AS PER GEOTECHNICAL ENGINEERS RECOMMENDATION.
11. FOR WATERMAIN CROSSING BELOW AND ABOVE SEWERS, REFER TO CITY STD. W25 AND W22, RESPECTIVELY, WHERE APPLICABLE.
12. ALL WATERMAIN CONNECTIONS AND DECOMMISSIONING OF EXISTING WATERMANS TO BE COMPLETED BY CITY FORCES. TRENCH BACKFILL/REINSTATEMENT TO BE COMPLETED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY OF OTTAWA.
13. FOR WATERMAIN STUBS, 2.4m MIN. COVER TO BE PROVIDED.
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16. FOR SERVICE INSTALLATION AT SEWER CROSSING, REFER TO CITY STD. W38 FOR DETAIL.
17. FOR HOUSE CONNECTIONS INSTALLED UNDER DRIVEWAYS, SLEEVE SHALL BE USED UNDER THE GARAGE SLAB.

TOPOGRAPHIC INFORMATION
RIDEAU FRONT (JULY 10, 2019) AND BORRISOKANE ROAD (JULY 10, 2019)
PROVIDED BY STANTEC (PROJECT No. 18-10-145-00)

LEGAL INFORMATION
M-PLAN PROVIDED BY J.D. BARNES, PROJECT No. 19-10-074-00, DATED ON FEBRUARY 9, 2024.

ELEVATION NOTE
ELEVATIONS SHOWN HEREON ARE GEODETIC (CGVD-1928-1978) AND ARE DERIVED FROM THE CAN-NET VRS NETWORK MONUMENT: OTTAWA
ELEVATION = 95.205m

No.	BY	DATE	DESCRIPTION
5	W.L.	24-06-03	REVISED PER CITY COMMENTS
4	W.L.	24-05-17	REVISED PER CITY GRADING COMMENTS, CUP, AND GRDD
3	W.L.	24-04-12	ISSUED FOR CONSTRUCTION
2	W.L.	24-03-21	2nd SUBMISSION
1	W.L.	24-01-19	1st SUBMISSION

Ottawa CITY OF OTTAWA

PROJECT No. 19-1123

W. LIU
100167932
PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

GENERAL PLAN

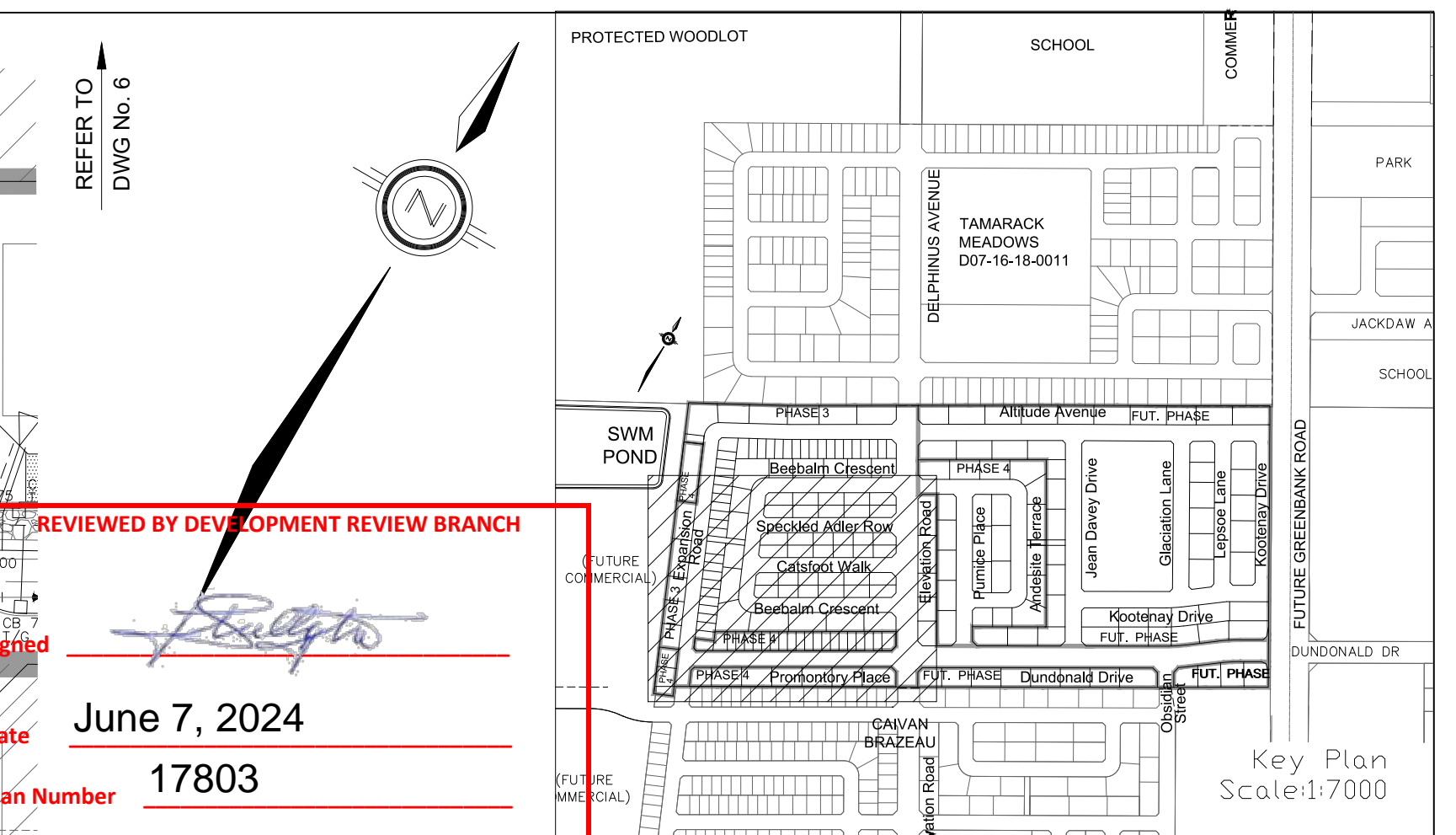
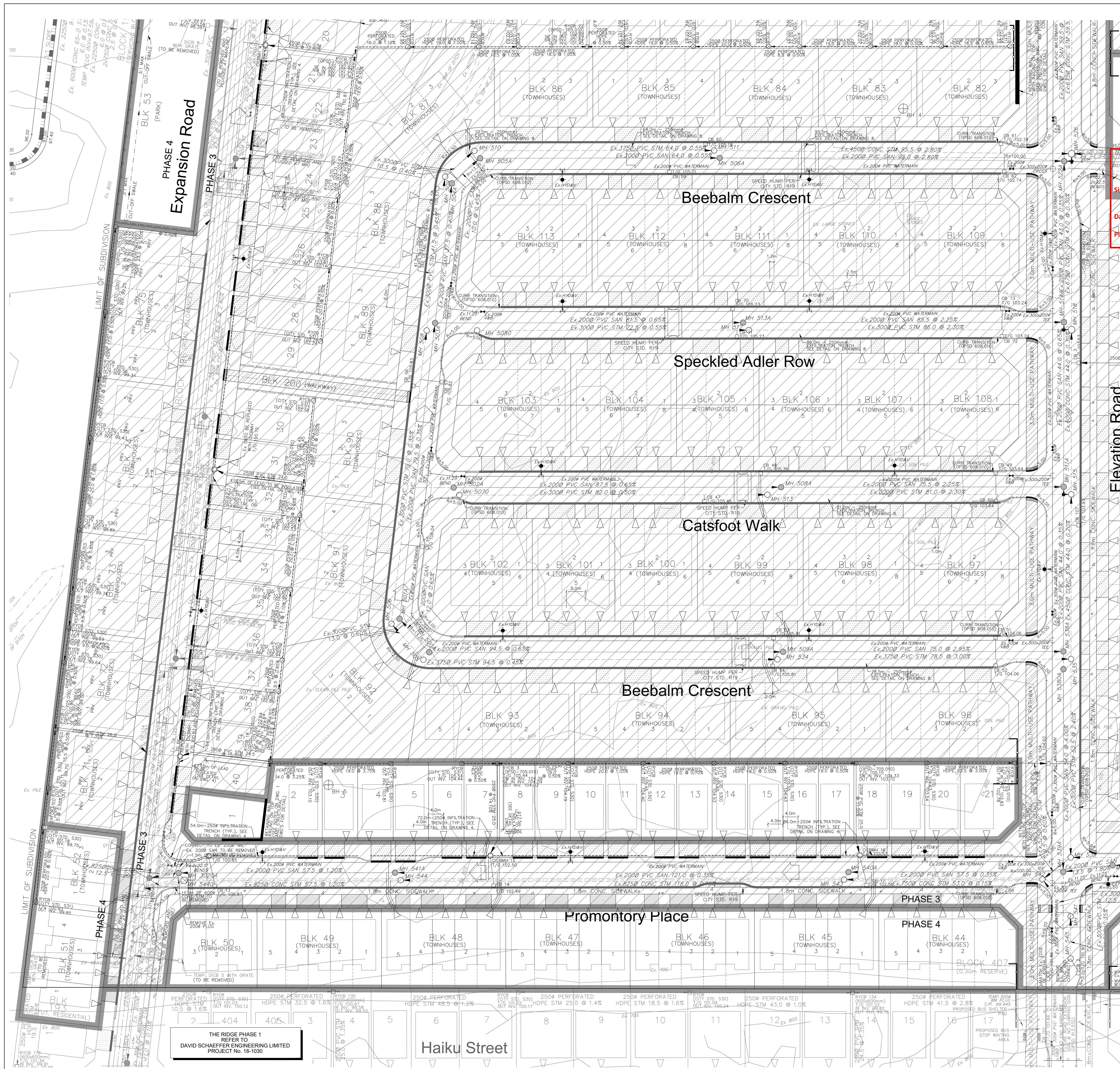
CAIVAN COMMUNITIES THE RIDGE PHASE 4

DSEL

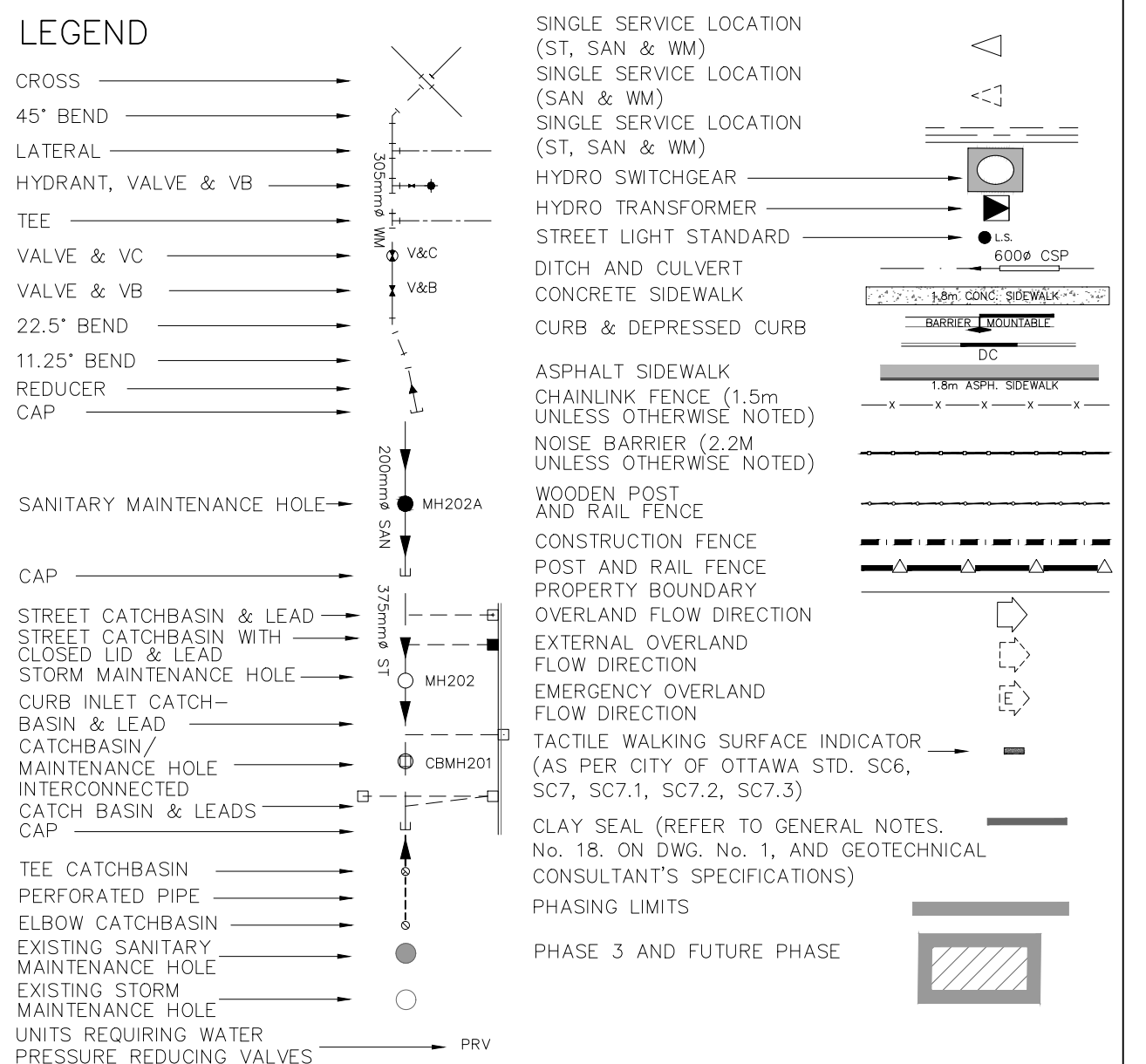
120 Iber Road, Unit 103
Sitterville, ON K2S 1E9
Tel. (613) 836-0856
Fax. (613) 836-7183
www.DSEL.ca

DRAWN BY: V.W. CHECKED BY: W.L. SHEET NO.
DESIGNED BY: W.L. CHECKED BY: C.M.
SCALE: 1:1000 DATE: MAY 2023

CITY PLAN No. 17803
CITY FILE No. D07-16-20-0015



REVIEWED BY DEVELOPMENT REVIEW BRANCH
 Signed: [Signature]
 Date: June 7, 2024
 Plan Number: 17803



REFER TO DWG No. 8

NOTES:

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PROJECT No. 19-1123

W. LIU
 100167932
 LICENSED PROFESSIONAL ENGINEER
 PROVINCE OF ONTARIO

GENERAL PLAN

CAIVAN COMMUNITIES THE RIDGE PHASE 4

DSEL

120 Ibor Road, Unit 103
 Sittlerville, ON K2S 1E9
 Tel. (613) 836-0856
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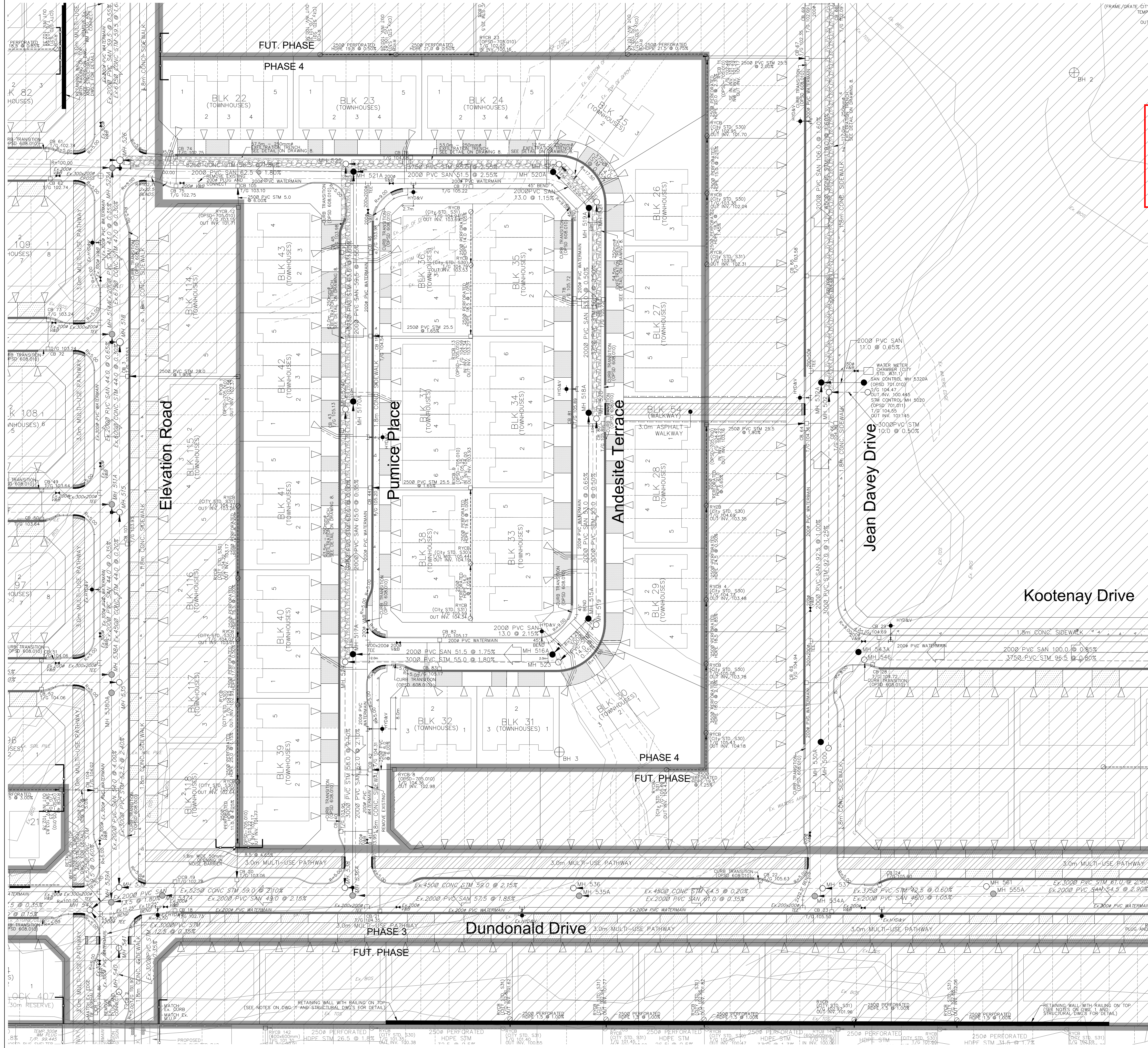
DRAWN BY: V.W. CHECKED BY: W.L.
 DESIGNED BY: W.L. CHECKED BY: C.M.
 SCALE: 1:1000 DATE: MAY 2023

SHEET NO. 7

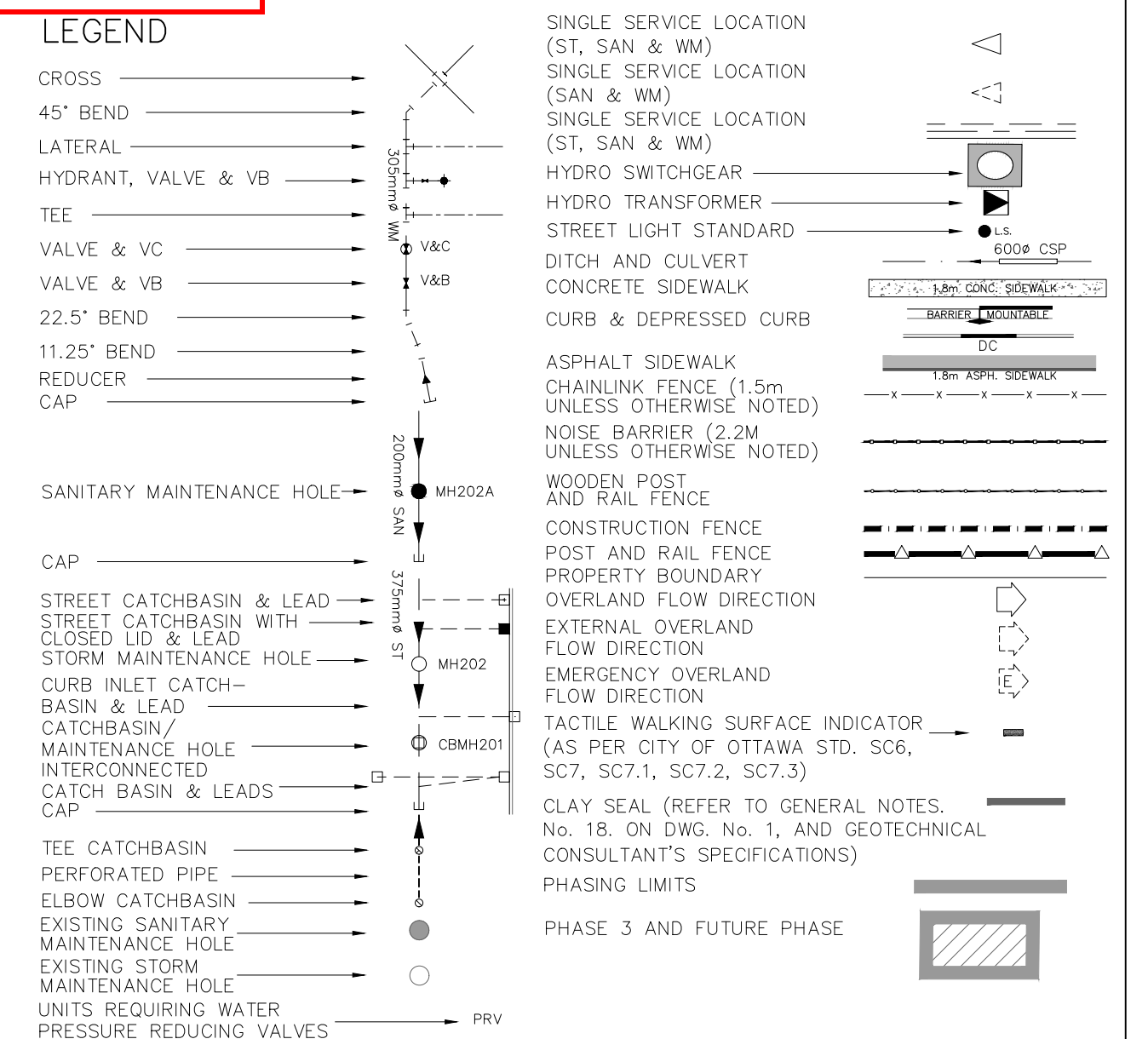
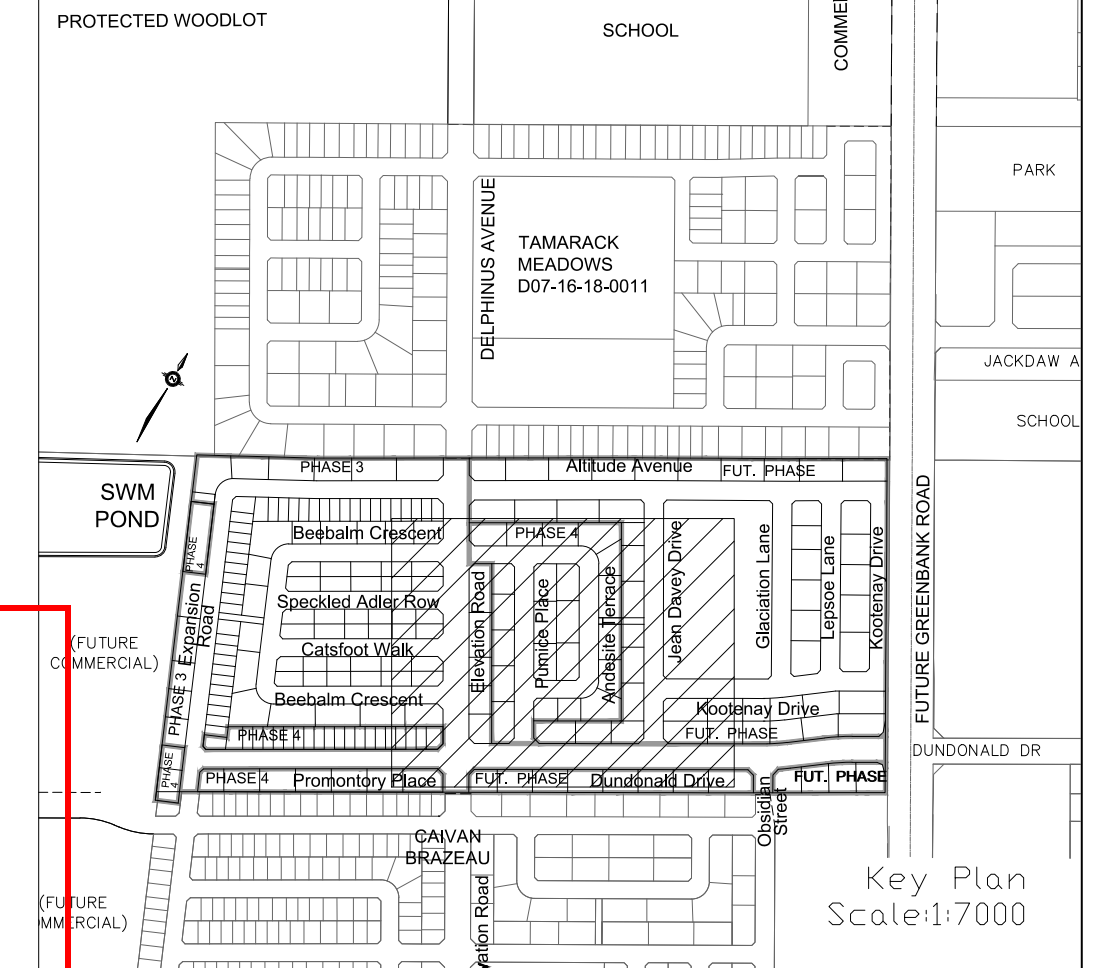
CITY PLAN No. 17803
 CITY FILE No. D07-16-20-0015

REFER TO DWG No. 7

THE MEADOWS IN HALF MOON BAY SUBDIVISION REFER TO DAVID SCHAEFFER ENGINEERS LIMITED PROJECT No. 19-1089



REVIEWED BY DEVELOPMENT REVIEW BRANCH
Signed: [Signature]
Date: June 7, 2024
Plan Number: 17803



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LEGAL INFORMATION: M-PLAN PROVIDED BY J.D. BARNES, PROJECT No. 19-10-074-00, DATED ON FEBRUARY 9, 2024.

ELEVATION NOTE: ELEVATIONS SHOWN HEREON ARE GEODETIC (CGVD-1928-1978) AND ARE DERIVED FROM THE CAN-NET VRS NETWORK MONUMENT: OTTAWA. ELEVATION = 95.205m. Table with columns: No., BY, DATE, DESCRIPTION.

CITY OF OTTAWA logo and seal. PROJECT No. 19-1123. LICENSED PROFESSIONAL ENGINEER W. LIU 100167932.

GENERAL PLAN: CAIVAN COMMUNITIES THE RIDGE PHASE 4. DSEL logo. DRAWN BY: V.W., CHECKED BY: W.L., SHEET NO. 8. SCALE: 1:1000, DATE: MAY 2023.

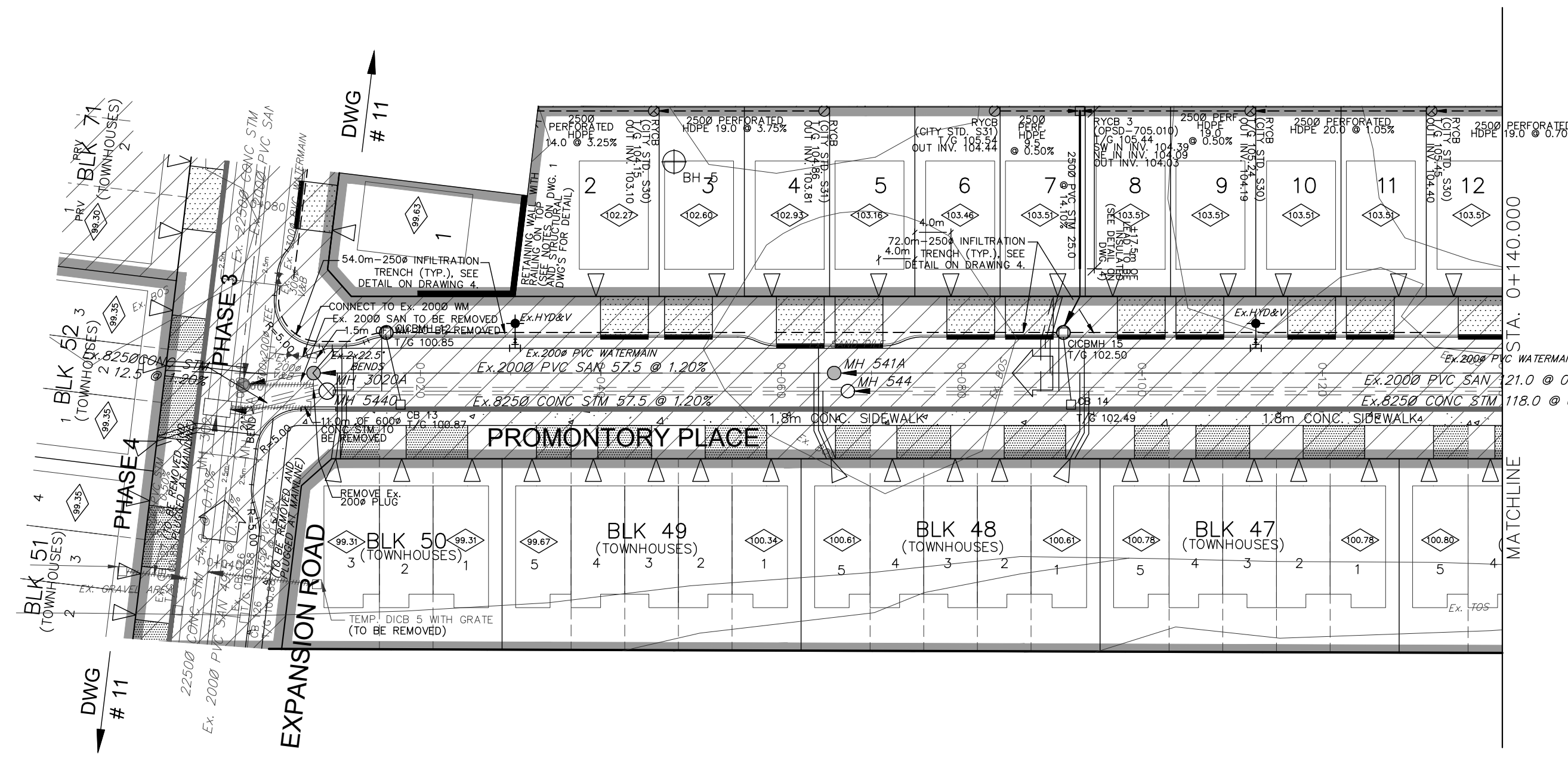
CITY PLAN No. 17803 CITY FILE No. D07-16-20-0015

PAVEMENT DESIGN

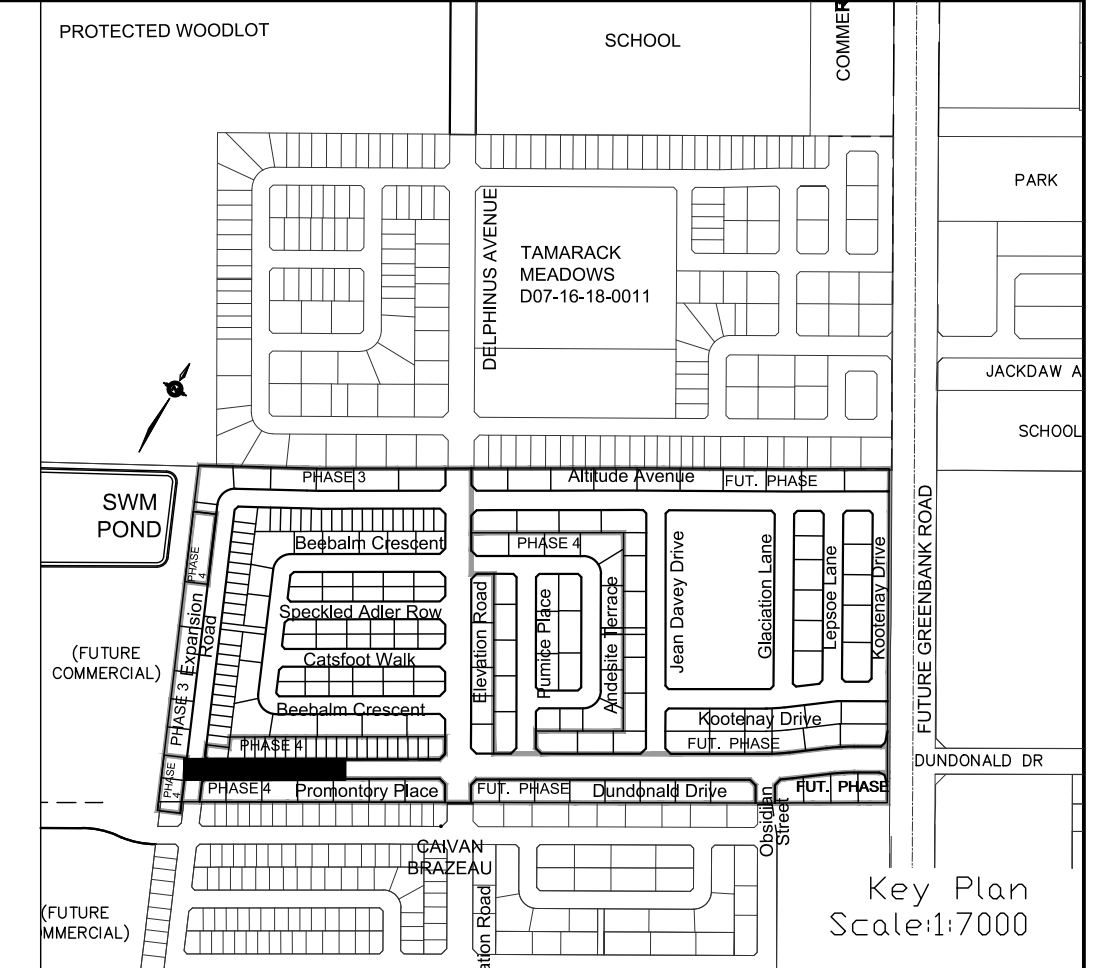
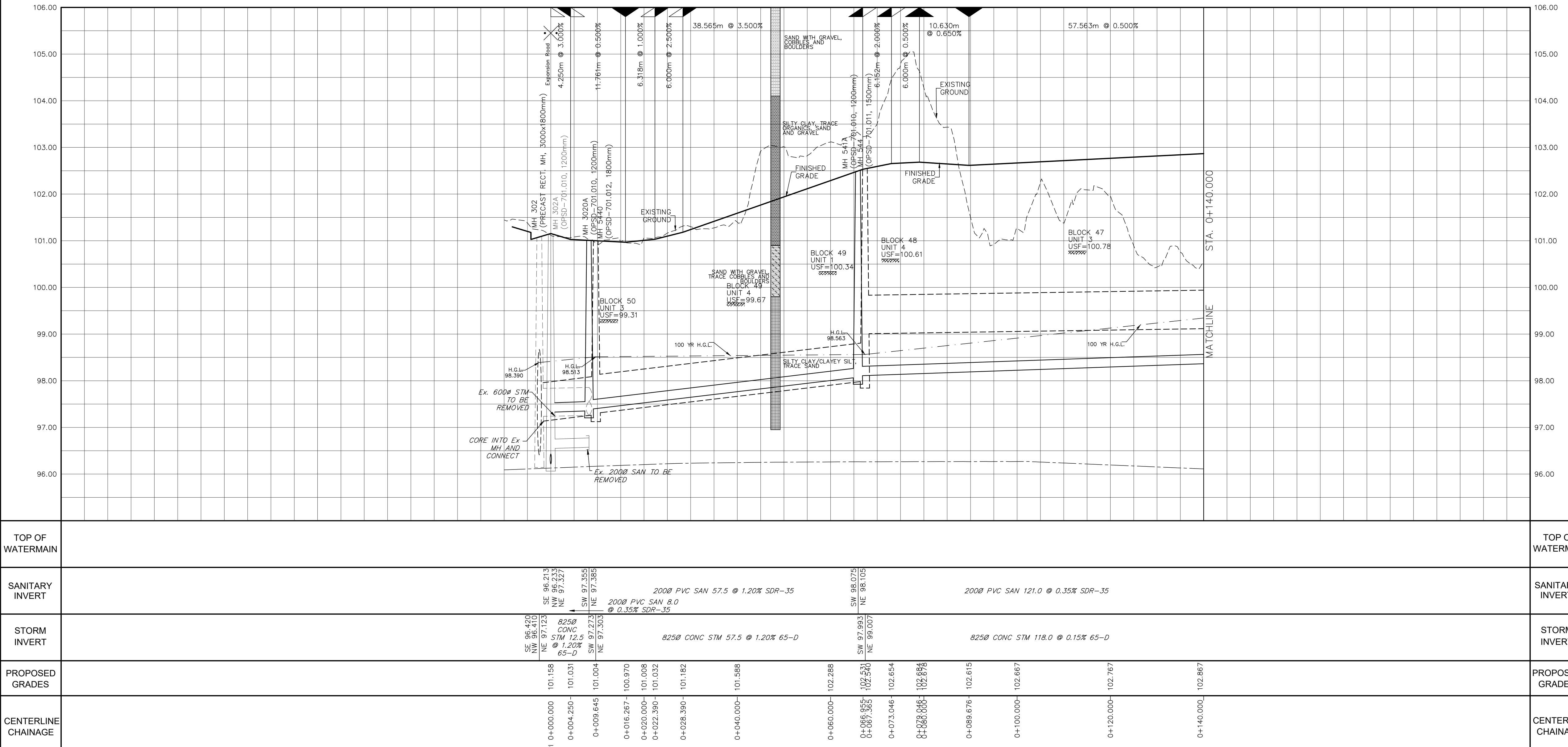
40mm SUPERPAVE 12.5 ASPHALTIC CONCRETE
 50mm SUPERPAVE 19.0 ASPHALTIC CONCRETE
 150mm OPSS GRANULAR A CRUSHED STONE
 400mm OPSS GRANULAR B TYPE II

NOTES:

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REVIEWED BY DEVELOPMENT REVIEW BRANCH
 Signed: [Signature]
 Date: June 7, 2024
 Plan Number: 17803



LEGEND

- 45° BEND
- LATERAL
- HYDRANT, VALVE & V&V
- TEE
- VALVE & VC
- VALVE & VB
- 22.5° BEND
- 11.25° BEND
- REDUCER
- CAP
- SANITARY MAINTENANCE HOLE
- CAP
- STREET CATCHBASIN & LEAD
- STREET CATCHBASIN WITH CLOSED LID & LEAD
- STORM MAINTENANCE HOLE
- CURB INLET CATCHBASIN & LEAD
- CATCHBASIN/MAINTENANCE HOLE
- INTERCONNECTED CATCH BASIN & LEADS
- CATCH BASIN LOCATION (ST. SAN & WM)
- SINGLE SERVICE LOCATION (SAN & WM)
- SINGLE SERVICE LOCATION (ST. SAN & WM)
- 25mm PEH TUBING (AWA C-904 WU)
- SINGLE SERVICE LOCATION (ST. SAN & WM)
- MIN. USF AS PER GEOTECHNICAL CONSULTANT'S RECOMMENDATION
- EXISTING SANITARY MAINTENANCE HOLE
- EXISTING SANITARY MAINTENANCE HOLE
- DITCH AND CULVERT
- GROUNDWATER PER PATERSON GROUP POS016-MEMO.06
- UNITS REQUIRING WATER PRESSURE REDUCING VALVES
- HYDRO TRANSFORMER
- STREET LIGHT STANDARD
- CONCRETE SIDEWALK
- CURB & DEPRESSED CURB
- ASPHALT SIDEWALK
- CHAINLINK FENCE (1.5m UNLESS OTHERWISE NOTED)
- NOISE BARRIERS (2.2m UNLESS OTHERWISE NOTED)
- WOODEN FENCE
- AND RAIL FENCE
- CONSTRUCTION FENCE
- POST AND RAIL FENCE
- PROPERTY BOUNDARY
- BOREROLE (90)
- TEST PIT (TP)
- AUGER HOLE (AH)
- MONITORING WELL LOCATION
- CONCEPTUAL WELL LOCATION
- TOP OF FOUNDATION ELEVATION
- FINISHED FLOOR ELEVATION
- UNDERSIDE OF FOOTING ELEVATION
- NUMBER OF RISERS
- UNITS REQUIRING PRESSURE REDUCING VALVES
- WALKOUT UNITS
- SLAB ON GRADE
- OVERLAND FLOW DIRECTION
- EXTERNAL OVERLAND FLOW DIRECTION
- EMERGENCY OVERLAND FLOW DIRECTION
- TACTILE WALKING SURFACE INDICATOR (AS PER CITY OF OTTAWA STD. 506, SC7, SC7.1, SC7.2, SC7.3)
- CLAY SEAL (REFER TO GENERAL NOTES, No. 18, ON DWG. No. 1, AND GEOTECHNICAL CONSULTANT'S SPECIFICATIONS)
- MIN. USF AS PER GEOTECHNICAL CONSULTANT'S RECOMMENDATION
- EXISTING SANITARY MAINTENANCE HOLE
- EXISTING SANITARY MAINTENANCE HOLE
- PHASING LIMITS

AS PER GEOTECHNICAL REPORT

TOPOGRAPHIC INFORMATION
 RIDEAU FRONT (JULY 10, 2019) AND BORRISOKANE ROAD (JULY 10, 2019)
 PROVIDED BY STANTEC (PROJECT No. 18-10-145-00)

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CITY OF OTTAWA

PROJECT No. 19-1123

W. LIU
 100167932
 LICENSED PROFESSIONAL ENGINEER
 PROVINCE OF ONTARIO

Promontory Place
 STA. 0+000 TO STA. 0+140.000

CAIVAN COMMUNITIES THE RIDGE PHASE 4

DSEL

120 Iber Road, Unit 103
 Stittsville, ON K0S 1E9
 Tel: (613) 836-0856
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DRAWN BY: R.A./V.W. CHECKED BY: W.L.
 DESIGNED BY: W.L. CHECKED BY: C.M.
 SCALE: H=1:500/V=1:50 DATE: OCTOBER 2021

SHEET No. **9**

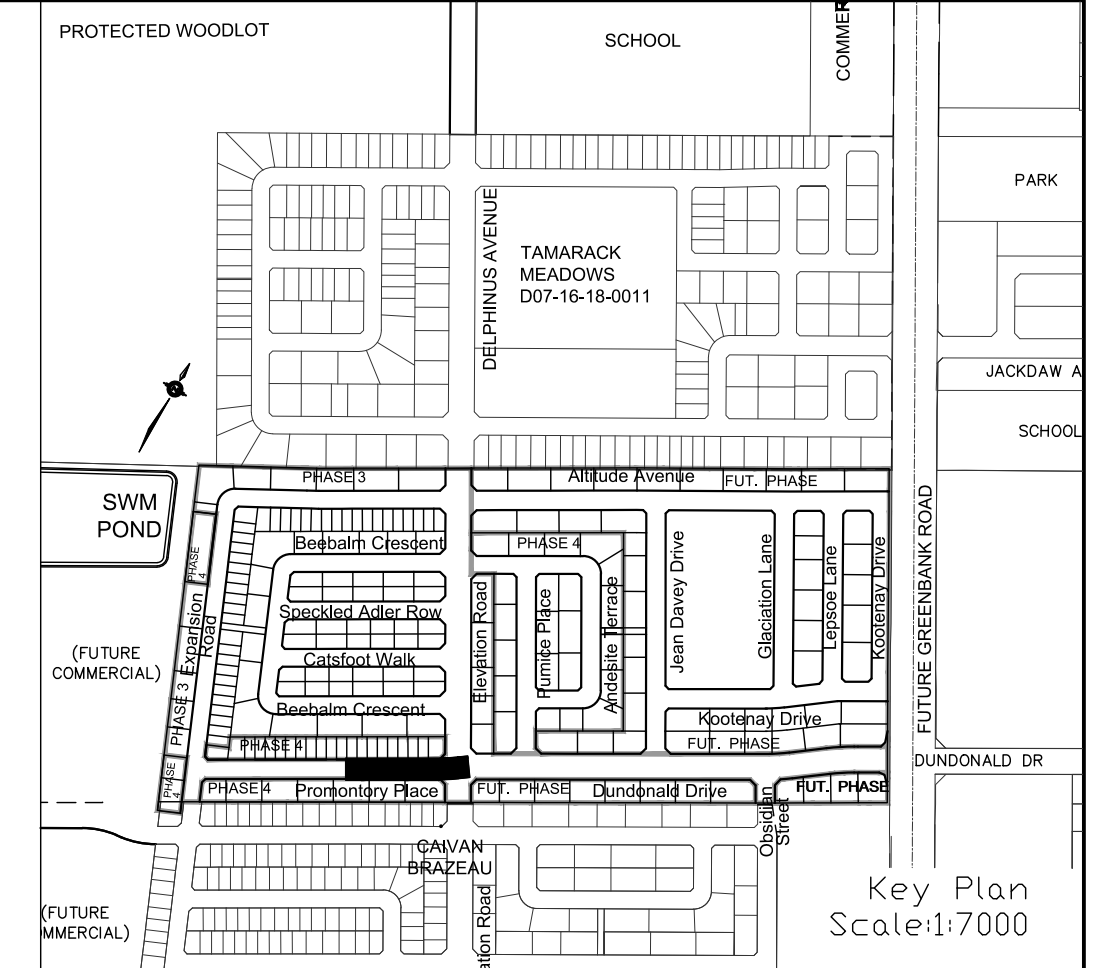
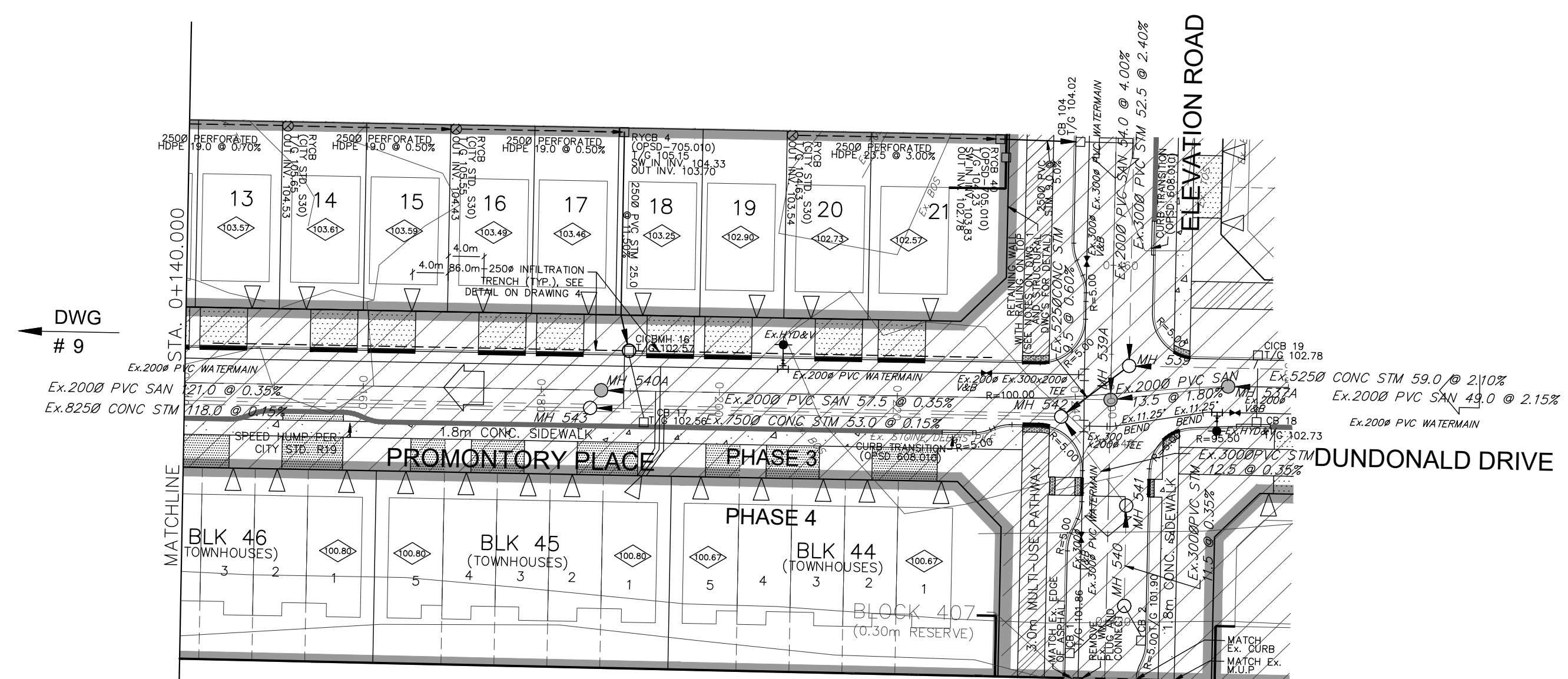
CITY PLAN No. 17803
 CITY FILE No. D07-16-20-0015

PAVEMENT DESIGN

40mm SUPERPAVE 12.5 ASPHALTIC CONCRETE
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 150mm OPSS GRANULAR A CRUSHED STONE
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NOTES:

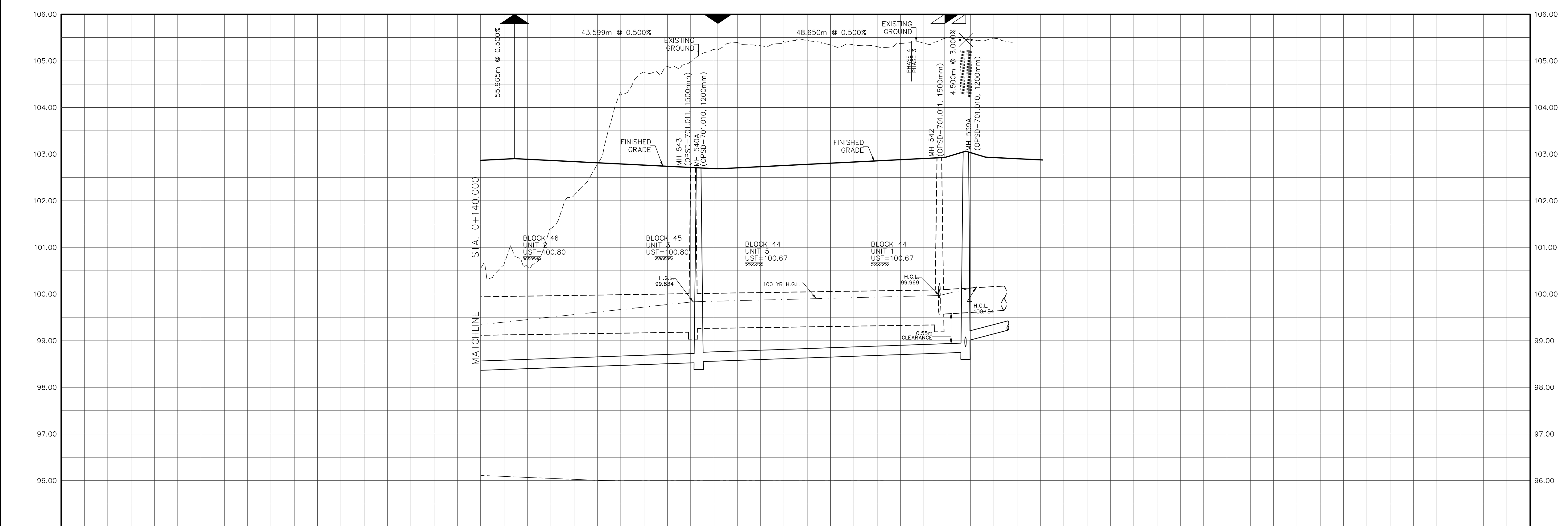
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REVIEWED BY DEVELOPMENT REVIEW BRANCH
 Signed: *[Signature]*
 Date: **June 7, 2024**
 Plan Number: **17803**

LEGEND

45° BEND	HYDRO TRANSFORMER	CONCRETE SIDEWALK	ASPHALT SIDEWALK
LATERAL	STREET LIGHT STANDARD	CHAINLINK FENCE (1.5m)	NOISE BARRIERS (2.0m)
HYDRANT, VALVE & VB	CONCRETE CURB & DEPRESSION	WOODEN AND RAIL FENCE	CONSTRUCTION FENCE
TEE	VALVE & VB	22.5' BEND	POST AND RAIL FENCE
VALVE & VC	VALVE & VB	11.25' BEND	PROPERTY BOUNDARY
REDUCER	CAP	TEST PIT (TP)	AUGER HOLE (AH)
SANITARY MAINTENANCE HOLE	CAP	MONITORING WELL LOCATION	CONCEPTUAL WELL LOCATION
CAP	STREET CATCHBASIN & LEAD	TOP OF FOUNDATION ELEVATION	FINISHED FLOOR ELEVATION
STREET CATCHBASIN WITH CLOSED LID & LEAD	STORM MAINTENANCE HOLE	UNDERSIDE OF FOOTING ELEVATION	NUMBER OF RISERS
CURB INLET CATCHBASIN & LEAD	CATCHBASIN/ MAINTENANCE HOLE	EXTERNAL OVERLAND FLOW DIRECTION	EMERGENCY OVERLAND FLOW DIRECTION
CATCH BASIN & LEADS	CATCH BASIN & LEADS	INTERCONNECTED	TACTILE WALKING SURFACE INDICATOR
SINGLE SERVICE LOCATION (ST, SAN & WM)	SINGLE SERVICE LOCATION (ST, SAN & WM)	SINGLE SERVICE LOCATION (ST, SAN & WM)	CLAY SEAL (REFER TO GENERAL NOTES, No. 18, ON DWG. No. 1, AND GEOTECHNICAL CONSULTANT'S SPECIFICATIONS)
SINGLE SERVICE LOCATION (ST, SAN & WM)	SINGLE SERVICE LOCATION (ST, SAN & WM)	SINGLE SERVICE LOCATION (ST, SAN & WM)	MIN. USF AS PER GEOTECHNICAL CONSULTANT'S RECOMMENDATION
TEE CATCHBASIN	PERFORATED PIPE	ELBOW CATCHBASIN	DITCH AND CULVERT
GROUNDWATER PER PATERSON GROUP POS016-MEM016	UNITS REQUIRING WATER PRESSURE REDUCING VALVES	PRV	PHASING LIMITS



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2	W.L.	24-03-21	2nd SUBMISSION
1	W.L.	24-01-19	1st SUBMISSION

TOP OF WATERMAIN	96.00	97.00	98.00	99.00	100.00	101.00	102.00	103.00	104.00	105.00	106.00												
SANITARY INVERT																							
STORM INVERT																							
PROPOSED GRADES																							
CENTERLINE CHAINAGE	0+140.000	102.867	0+147.239	102.903	0+160.000	102.840	0+180.000	102.739	0+190.838	102.685	0+200.000	102.731	0+220.000	102.831	0+232.387	102.893	0+238.685	102.943	0+242.078	103.006	0+243.989	103.063	0+260.000

CITY OF OTTAWA

PROJECT No. 19-1123

Promontory Place
 STA. 0+140.000 TO STA. 0+254.073

CAIVAN COMMUNITIES THE RIDGE PHASE 4

DSEL

120 Iber Road, Unit 103
 Stittsville, ON K0S 1E9
 Tel: (613) 836-0856
 Fax: (613) 836-7183
 www.DSEL.ca

DRAWN BY: R.A./V.W. CHECKED BY: W.L. SHEET No. 10
 DESIGNED BY: W.L. CHECKED BY: C.M.
 SCALE: H=1:500/V=1:50 DATE: OCTOBER 2021

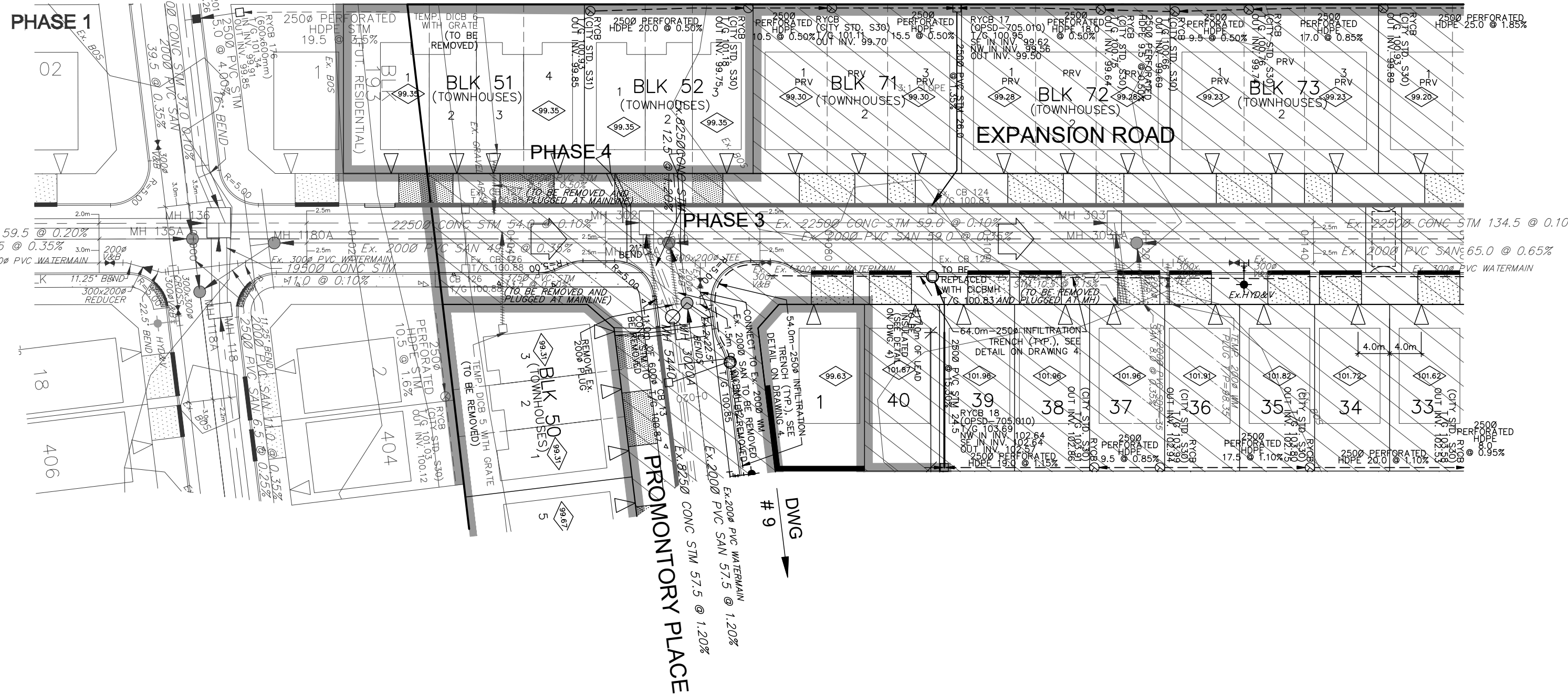
CITY PLAN No. 17803
CITY FILE No. D07-16-20-0015

PAVEMENT DESIGN

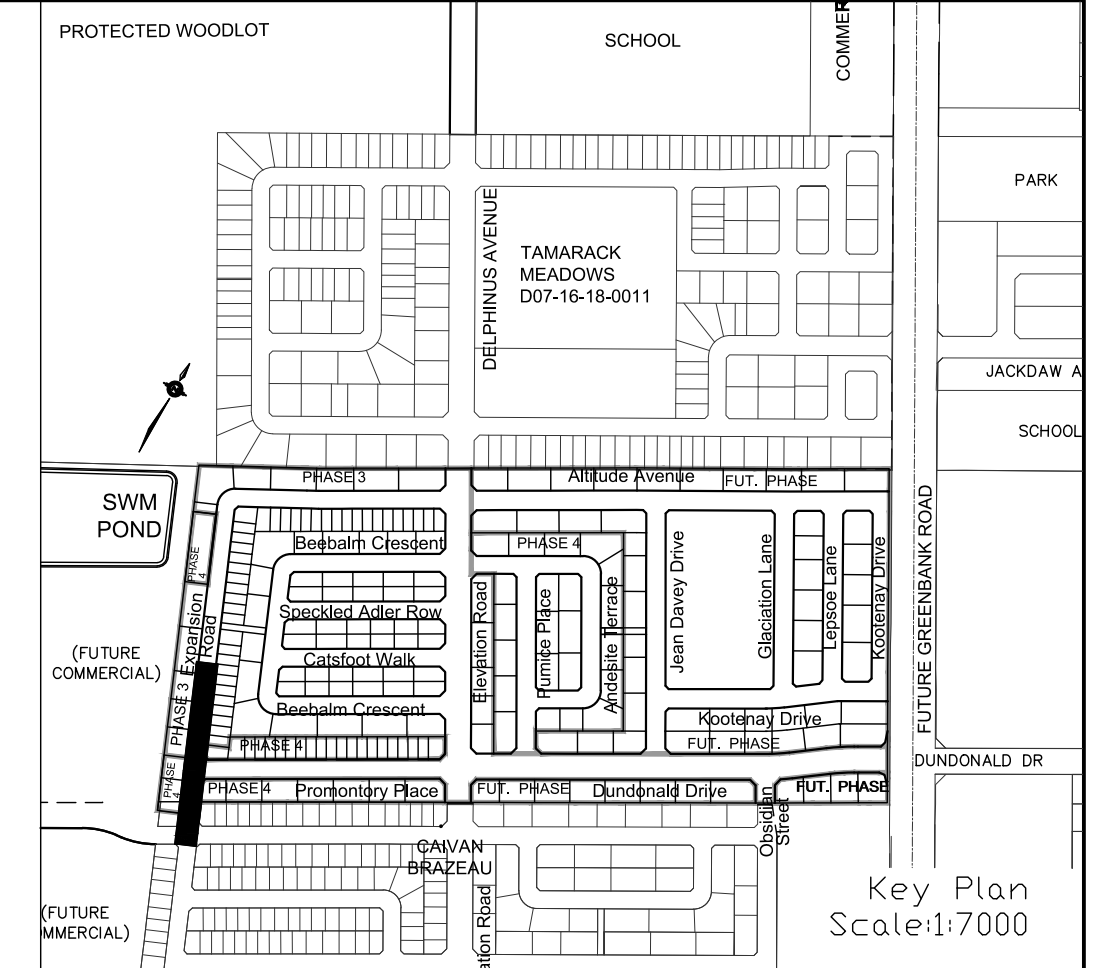
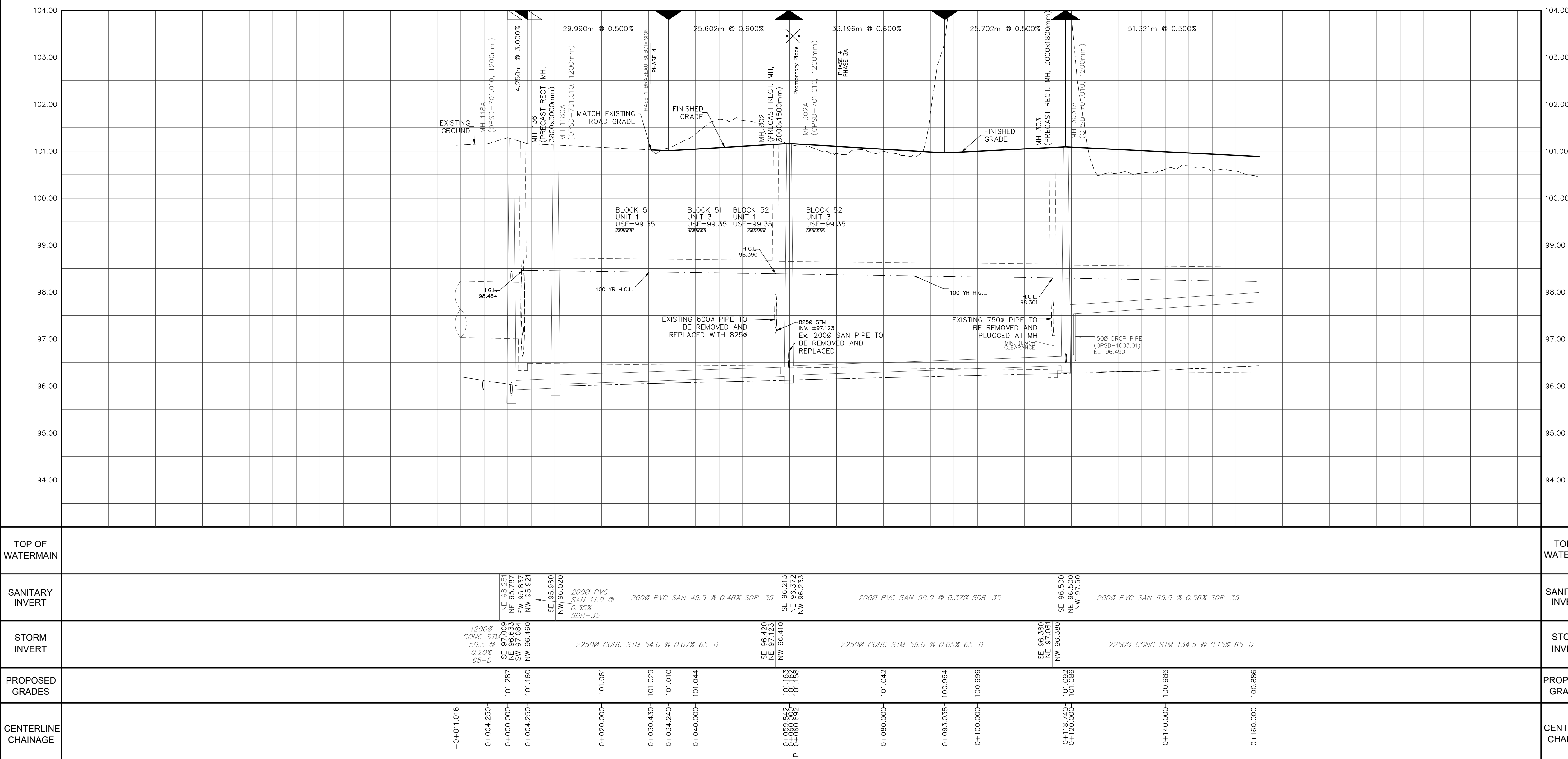
40mm SUPERPAVE 12.5 ASPHALTIC CONCRETE
 50mm SUPERPAVE 19.0 ASPHALTIC CONCRETE
 150mm OPSS GRANULAR A CRUSHED STONE
 400mm OPSS GRANULAR B TYPE II

NOTES:

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REVIEWED BY DEVELOPMENT REVIEW BRANCH
 Signed: *[Signature]*
 Date: **June 7, 2024**
 Plan Number: **17803**



LEGEND

CROSS	HYDRO TRANSFORMER	STREET LIGHT STANDARD
45° BEND	CONCRETE SIDEWALK	CURB & DEPRESSED CURB
LATERAL	ASPHALT SIDEWALK	CHAINLINK FENCE (1.5m)
HYDRANT, VALVE & VB	NOISE BARRIERS (2.0m)	UNLESS OTHERWISE NOTED
VALVE & VC	WOODEN FENCE	AND RAIL FENCE
VALVE & VB	CONSTRUCTION FENCE	POST AND RAIL FENCE
22.5° BEND	PROPERTY BOUNDARY	BOREROLE (90)
11.25° BEND	TEST PIT (TP)	ALLEN HOLE (AH)
REDUCER	MONITORING WELL LOCATION	CONCEPTUAL WELL LOCATION
CAP	SANITARY MAINTENANCE HOLE	TOP OF FOUNDATION ELEVATION
SANITARY MAINTENANCE HOLE	CAP	UNDERSIDE OF FOOTING ELEVATION
CAP	STREET CATCHBASIN & LEAD	NUMBER OF RISERS
STREET CATCHBASIN & LEAD	STREET CATCHBASIN WITH CLOSED LID & LEAD	UNITS REQUIRING PRESSURE REDUCING VALVES
STORM MAINTENANCE HOLE	WALKOUT UNITS	SLAB ON GRADE
CURB INLET CATCHBASIN & LEAD	OVERLAND FLOW DIRECTION	EXTERNAL OVERLAND FLOW DIRECTION
CATCHBASIN/ MAINTENANCE HOLE	INTERCONNECTED CATCH BASIN & LEADS	EMERGENCY OVERLAND FLOW DIRECTION
INTERCONNECTED CATCH BASIN & LEADS	CATCH BASIN LOCATION	TACTILE WALKING SURFACE INDICATOR (AS PER CITY OF OTTAWA STD. 506, SC7, SC7.1, SC7.2, SC7.3)
CATCH BASIN LOCATION	SINGLE SERVICE LOCATION (ST, SAN & WM)	CLAY SEAL (REFER TO GENERAL NOTES, No. 18, ON DWG. No. 1, AND GEOTECHNICAL CONSULTANT'S SPECIFICATIONS)
SINGLE SERVICE LOCATION (ST, SAN & WM)	SINGLE SERVICE LOCATION (ST, SAN & WM)	MIN. USF AS PER GEOTECHNICAL CONSULTANT'S RECOMMENDATION
SINGLE SERVICE LOCATION (ST, SAN & WM)	TEE CATCHBASIN	EXISTING SANITARY MAINTENANCE HOLE
TEE CATCHBASIN	PERFORATED PIPE	EXISTING SANITARY MAINTENANCE HOLE
PERFORATED PIPE	ELBOW CATCHBASIN	DITCH AND CULVERT
ELBOW CATCHBASIN	DITCH AND CULVERT	GROUNDWATER PER PATERSON GROUP POS016-MEMO.06
DITCH AND CULVERT	GROUNDWATER PER PATERSON GROUP POS016-MEMO.06	UNITS REQUIRING WATER PRESSURE REDUCING VALVES
GROUNDWATER PER PATERSON GROUP POS016-MEMO.06	UNITS REQUIRING WATER PRESSURE REDUCING VALVES	PHASING LIMITS

TOPOGRAPHIC INFORMATION
 RIDEAU FRONT (JULY 10, 2019) AND BORRISOKANE ROAD (JULY 10, 2019)
 PROVIDED BY STANTEC (PROJECT No. 18-10-145-00)

LEGAL INFORMATION
 M-PLAN PROVIDED BY J.D. BARNES, PROJECT No. 19-10-074-00, DATED ON FEBRUARY 9, 2024.

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CITY OF OTTAWA

PROJECT No. 19-1123

© DSEL

Expansion Road
 STA. 0+000 TO STA. 0+160.000

CAIVAN COMMUNITIES THE RIDGE PHASE 4

DSEL

120 Iber Road, Unit 103
 Stittville, ON K2S 1E9
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 SCALE: H=1:500/V=1:50 DATE: OCTOBER 2021 11

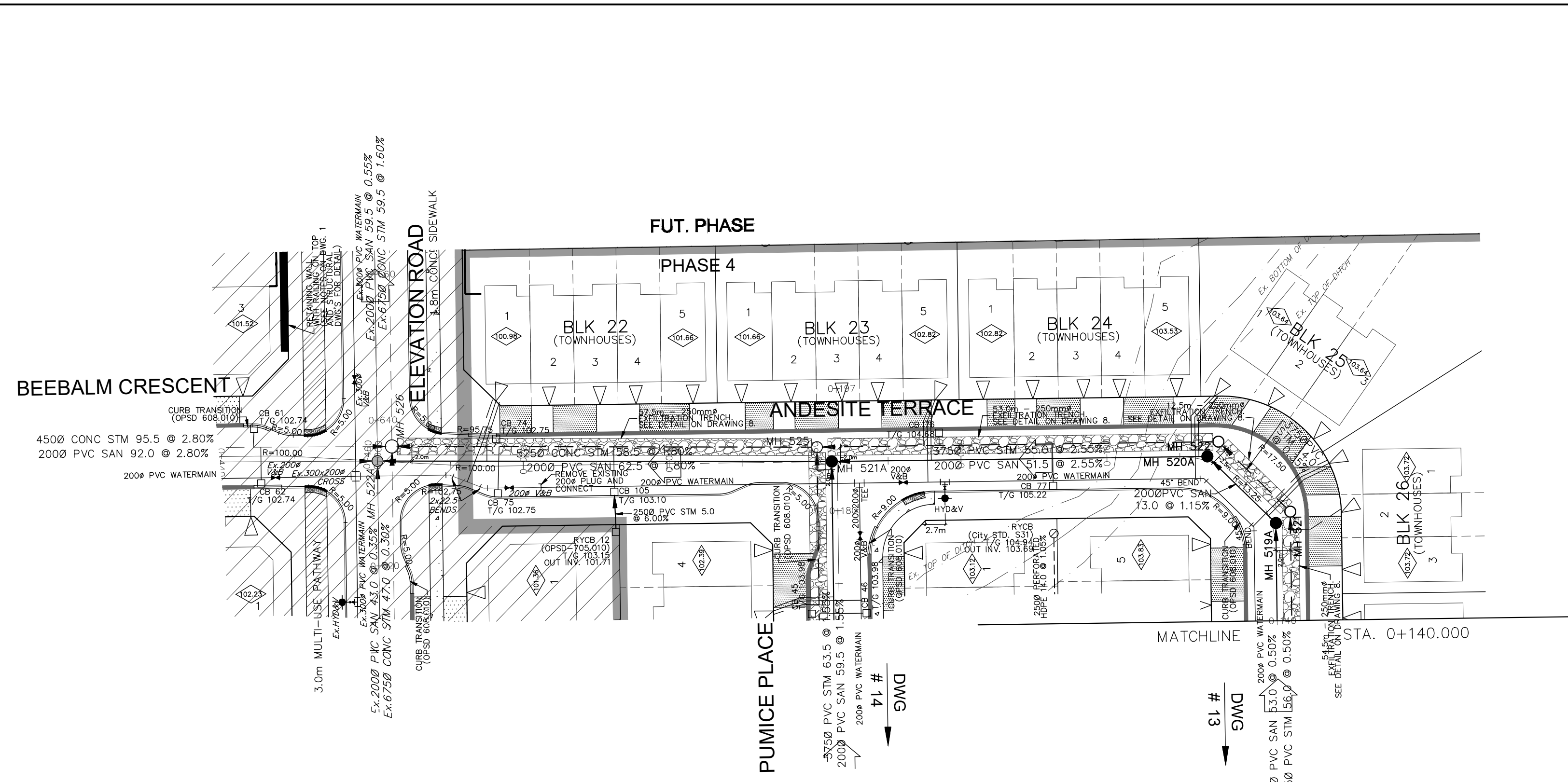
CITY PLAN No. 17803 CITY FILE No. D07-16-20-0015

PAVEMENT DESIGN

40mm SUPERPAVE 12.5 ASPHALTIC CONCRETE
 50mm SUPERPAVE 19.0 ASPHALTIC CONCRETE
 150mm OPS GRANULAR A CRUSHED STONE
 400mm OPS GRANULAR B TYPE II

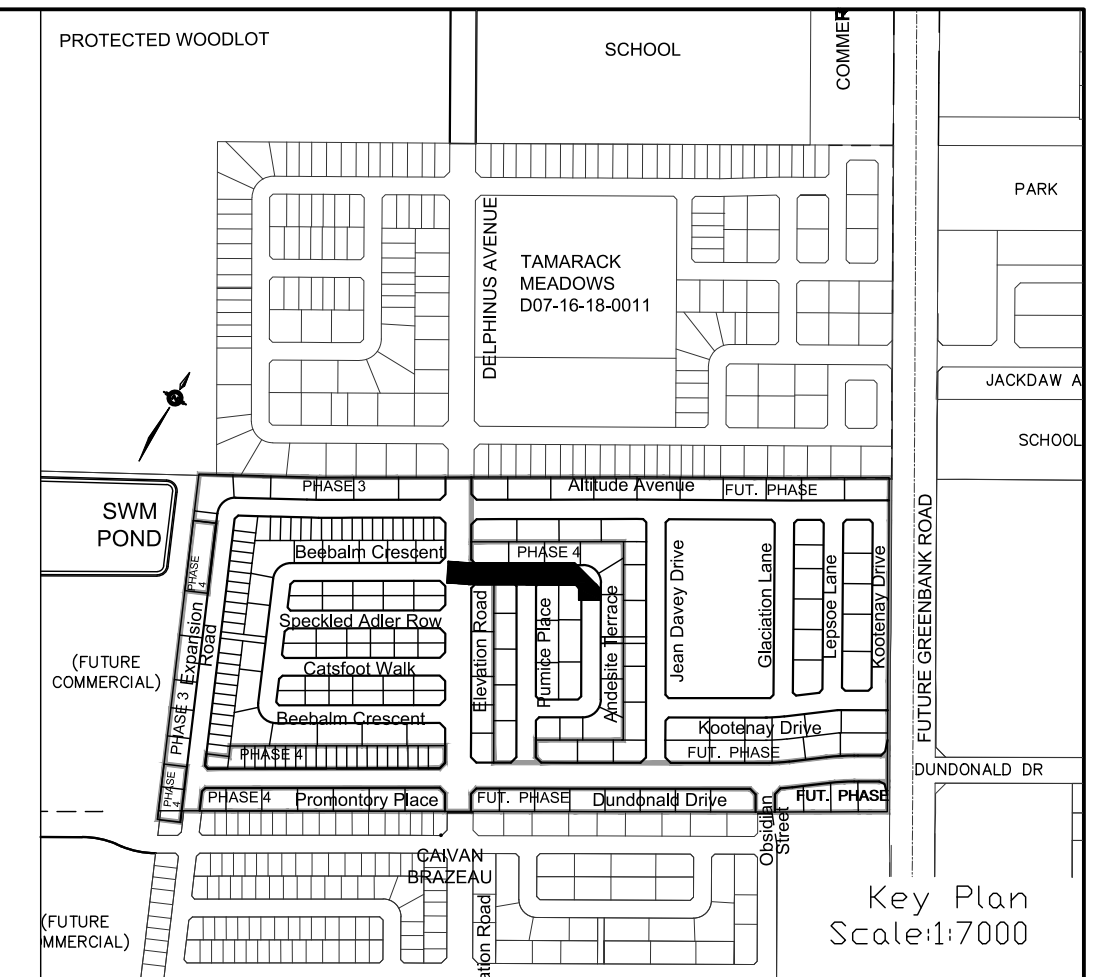
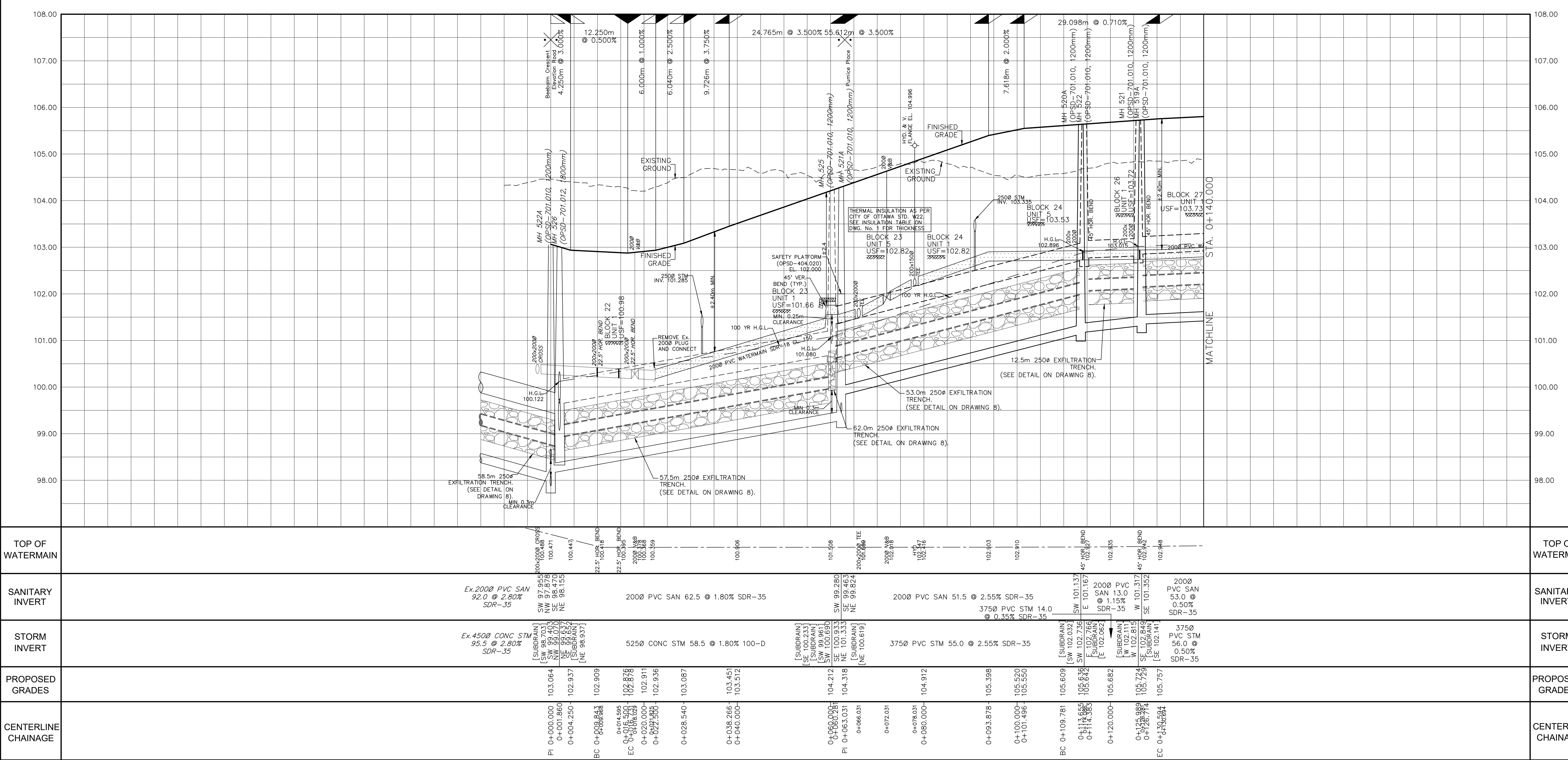
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REVIEWED BY DEVELOPMENT REVIEW BRANCH

Signed: *[Signature]*
 Date: **June 7, 2024**
 Plan Number: **17803**



LEGEND

CROSS	HYDRO TRANSFORMER	STREET LIGHT STANDARD	CONCRETE SIDEWALK
LATERAL	ASPHALT SIDEWALK	CHAINLINK FENCE (1.5m)	NOISE BARRIERS (2.2m)
HYDRANT, VALVE & VB	VALVE & VC	VALVE & VB	22.5' BEND
TEE	VALVE & VB	11.25' BEND	REDUCER
VALVE & VC	CONSTRUCTION FENCE	POST AND RAIL FENCE	PROPERTY BOUNDARY
22.5' BEND	BOREHOLE (8")	TEST PIT (TP)	AUGER HOLE (AH)
11.25' BEND	MONITORING WELL LOCATION	CONCEPTUAL WELL LOCATION	TOP OF FOUNDATION ELEVATION
CAP	UNDERSIDE OF FOOTING ELEVATION	NUMBER OF RISERS	UNITS REQUIRING PRESSURE
SANITARY MAINTENANCE HOLE	STREET CATCHBASIN & LEAD	STORM MAINTENANCE HOLE	SLAB ON GRADE
CAP	CATCHBASIN & LEAD	EXTERNAL OVERLAND FLOW DIRECTION	EMERGENCY OVERLAND FLOW DIRECTION
STREET CATCHBASIN & LEAD	INTERCONNECTED	CATCH BASIN & LEADS	TACTILE WALKING SURFACE INDICATOR
STORM MAINTENANCE HOLE	SINGLE SERVICE LOCATION (ST, SAN & WM)	SINGLE SERVICE LOCATION (ST, SAN & WM)	CLAY SEAL (REFER TO GENERAL NOTES, No. 18, ON DWG. No. 1, AND GEOTECHNICAL CONSULTANT'S SPECIFICATIONS)
CURB INLET CATCHBASIN & LEAD	SINGLE SERVICE LOCATION (ST, SAN & WM)	MIN. USF AS PER GEOTECHNICAL CONSULTANT'S RECOMMENDATION	EXISTING SANITARY MAINTENANCE HOLE
CATCHBASIN & LEAD	TEE CATCHBASIN	PERFORMED PIPE	EXISTING SANITARY MAINTENANCE HOLE
INTERCONNECTED	PERFORMED PIPE	DITCH AND CULVERT	GROUNDWATER PER PATERSON GROUP POS016-MEMO.06
SINGLE SERVICE LOCATION (ST, SAN & WM)	TEE CATCHBASIN	ELBOW CATCHBASIN	DITCH AND CULVERT
SINGLE SERVICE LOCATION (ST, SAN & WM)	PERFORMED PIPE	DITCH AND CULVERT	GROUNDWATER PER PATERSON GROUP POS016-MEMO.06
SINGLE SERVICE LOCATION (ST, SAN & WM)	ELBOW CATCHBASIN	DITCH AND CULVERT	GROUNDWATER PER PATERSON GROUP POS016-MEMO.06
SINGLE SERVICE LOCATION (ST, SAN & WM)	DITCH AND CULVERT	GROUNDWATER PER PATERSON GROUP POS016-MEMO.06	PRESSURE REDUCING VALVES
SINGLE SERVICE LOCATION (ST, SAN & WM)	GROUNDWATER PER PATERSON GROUP POS016-MEMO.06	PRESSURE REDUCING VALVES	PHASE 3 AND FUTURE PHASE

TOPOGRAPHIC INFORMATION
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 PROVIDED BY STANTEC (PROJECT No. 18-10-145-00)

LEGAL INFORMATION
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No. BY DATE DESCRIPTION

CITY OF OTTAWA

PROJECT No. 19-1123

W. LIU
 100167932
 LICENSED PROFESSIONAL ENGINEER
 PROVINCE OF ONTARIO

Andesite Terrace
 STA. 0+000 TO STA. 0+140.000

CAIVAN COMMUNITIES **THE RIDGE PHASE 4**

DSEL

120 Iber Road, Unit 103
 Stittsville, ON K0S 1E9
 Tel: (613) 896-0856
 Fax: (613) 896-7183
 www.dsel.ca

DRAWN BY: R.A./V.W. CHECKED BY: W.L. SHEET No.
 DESIGNED BY: W.L. CHECKED BY: C.M.
 SCALE: H=1:500/V=1:50 DATE: OCTOBER 2021 12

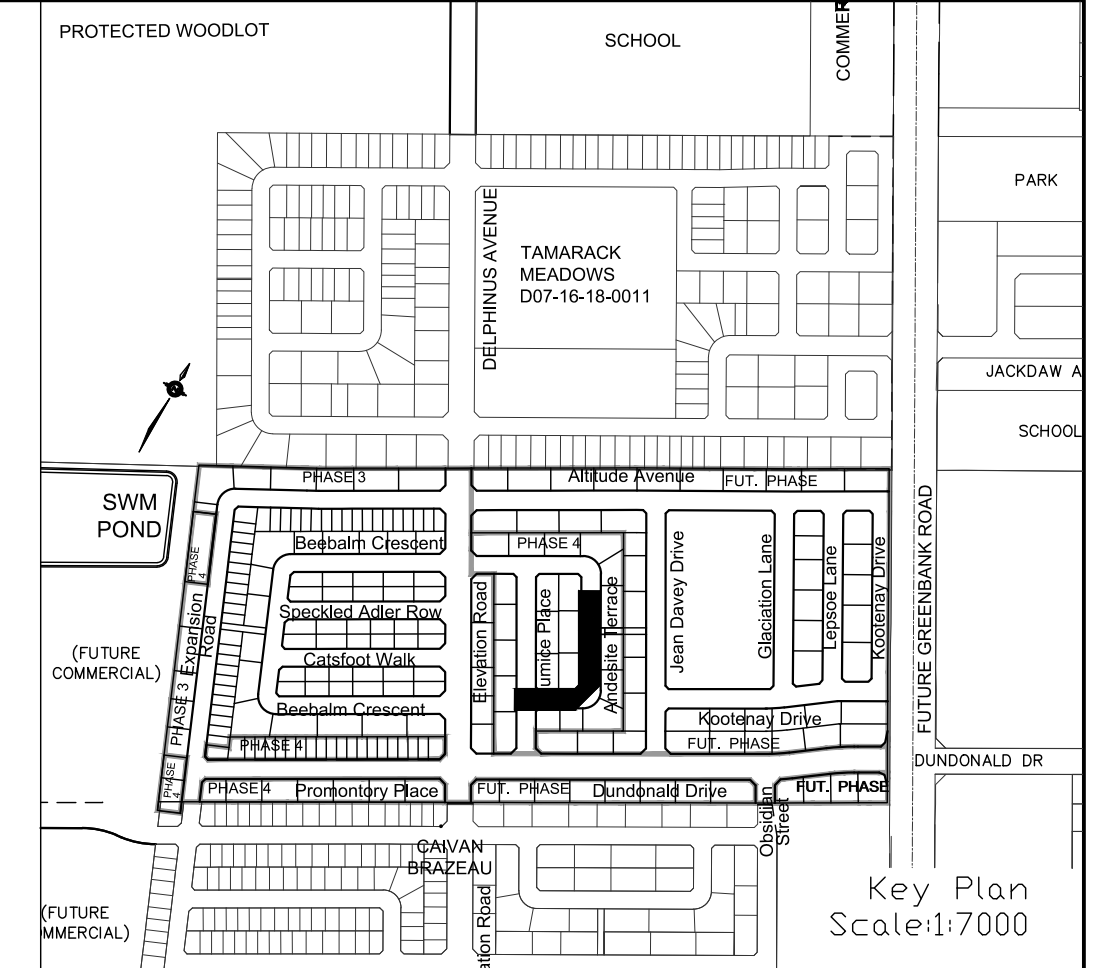
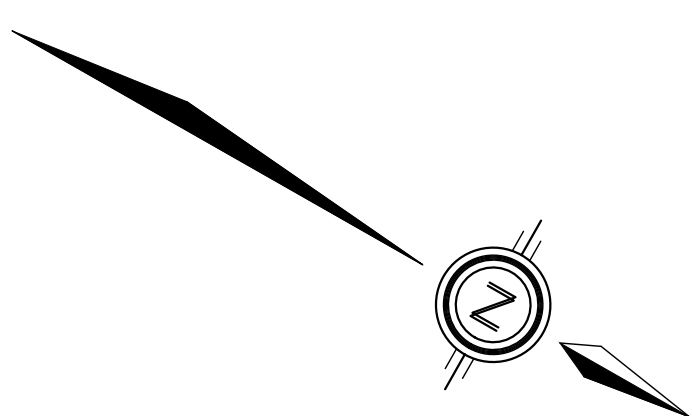
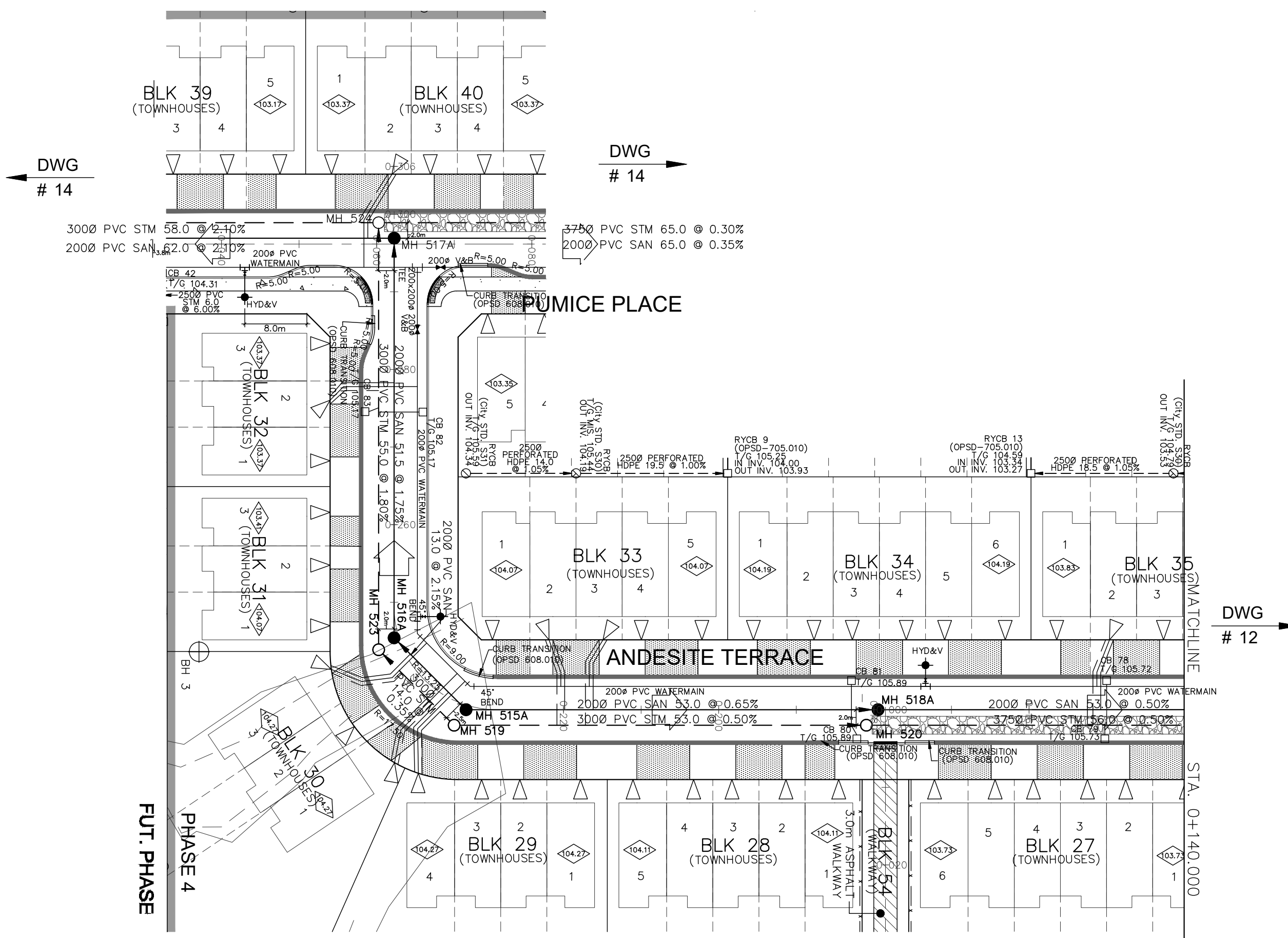
CITY PLAN No. 17803
 CITY FILE No. D07-16-20-0015

PAVEMENT DESIGN

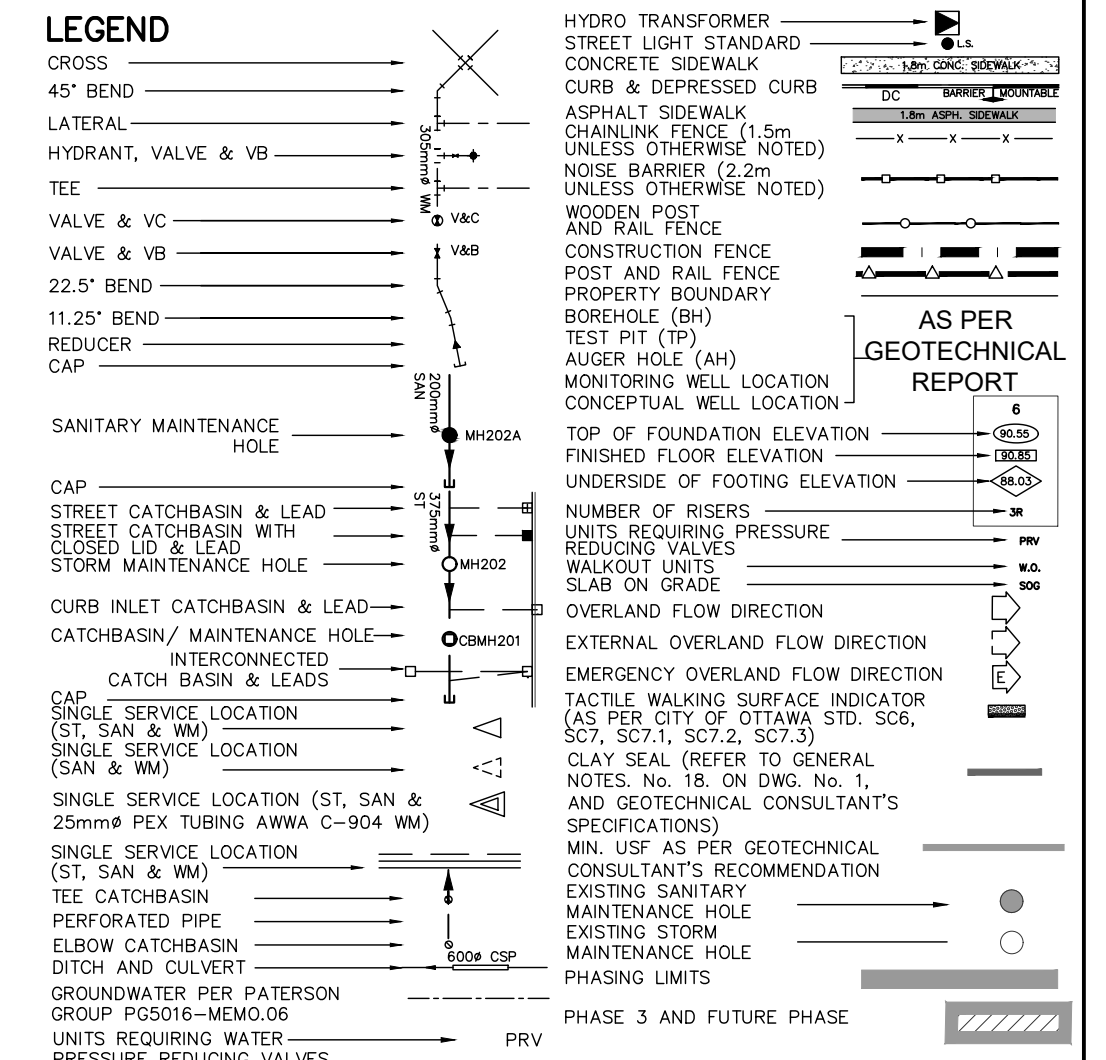
40mm SUPERPAVE 12.5 ASPHALTIC CONCRETE
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 150mm OPSS GRANULAR A CRUSHED STONE
 400mm OPSS GRANULAR B TYPE II

NOTES:

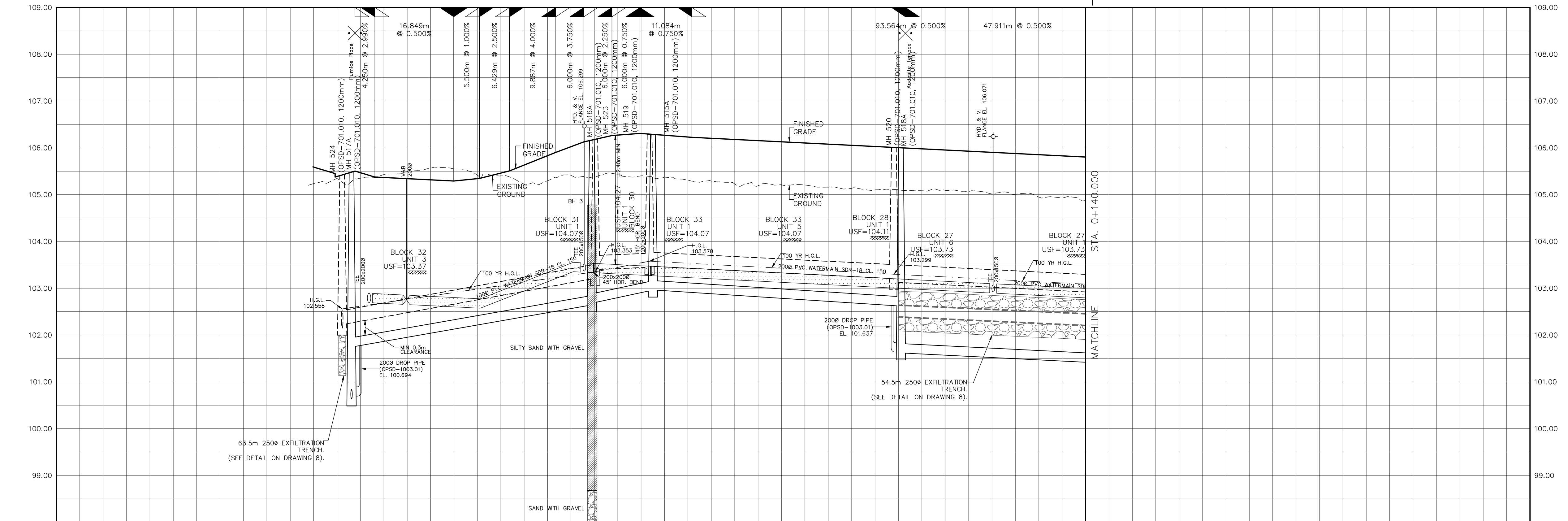
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REVIEWED BY DEVELOPMENT REVIEW BRANCH
 Signed: *[Signature]*
 Date: June 7, 2024
 Plan Number: 17803



TOPOGRAPHIC INFORMATION
 RIDEAU FRONT (JULY 10, 2019) AND BORRISOKANE ROAD (JULY 10, 2019)
 PROVIDED BY STANTEC (PROJECT No. 18-10-145-00)
LEGAL INFORMATION
 M-PLAN PROVIDED BY J.D. BARNES, PROJECT No. 19-10-074-00, DATED ON FEBRUARY 9, 2024.



	0+320.000	0+305.157	0+300.000	0+296.157	0+291.307	0+286.457	0+280.000	0+275.058	0+269.598	0+263.129	0+253.242	0+243.442	0+233.742	0+228.594	0+224.156	0+220.000	0+200.000
TOP OF WATERMAIN	102.892	102.892	102.892	102.892	102.892	102.892	102.892	102.892	102.892	102.892	102.892	102.892	102.892	102.892	102.892	102.892	102.892
SANITARY INVERT	100.834	100.834	100.834	100.834	100.834	100.834	100.834	100.834	100.834	100.834	100.834	100.834	100.834	100.834	100.834	100.834	100.834
STORM INVERT	102.223	102.223	102.223	102.223	102.223	102.223	102.223	102.223	102.223	102.223	102.223	102.223	102.223	102.223	102.223	102.223	102.223
PROPOSED GRADES	105.376	105.376	105.376	105.376	105.376	105.376	105.376	105.376	105.376	105.376	105.376	105.376	105.376	105.376	105.376	105.376	105.376
CENTERLINE CHAINAGE	0+320.000	0+305.157	0+300.000	0+296.157	0+291.307	0+286.457	0+280.000	0+275.058	0+269.598	0+263.129	0+253.242	0+243.442	0+233.742	0+228.594	0+224.156	0+220.000	0+200.000

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CITY OF OTTAWA

PROJECT No. 19-1123

Andesite Terrace
 STA. 0+140.000 TO STA. 0+303.907

CAIVAN COMMUNITIES THE RIDGE PHASE 4

120 Iber Road, Unit 103
 Stittville, ON K2S 1E9
 Tel: (613) 836-0856
 Fax: (613) 836-7183
 www.DSEL.ca

DRAWN BY: R.A./V.W. CHECKED BY: W.L.
 DESIGNED BY: W.L. CHECKED BY: C.M.
 SCALE: H=1:500/V=1:50 DATE: OCTOBER 2021

SHEET No. 13

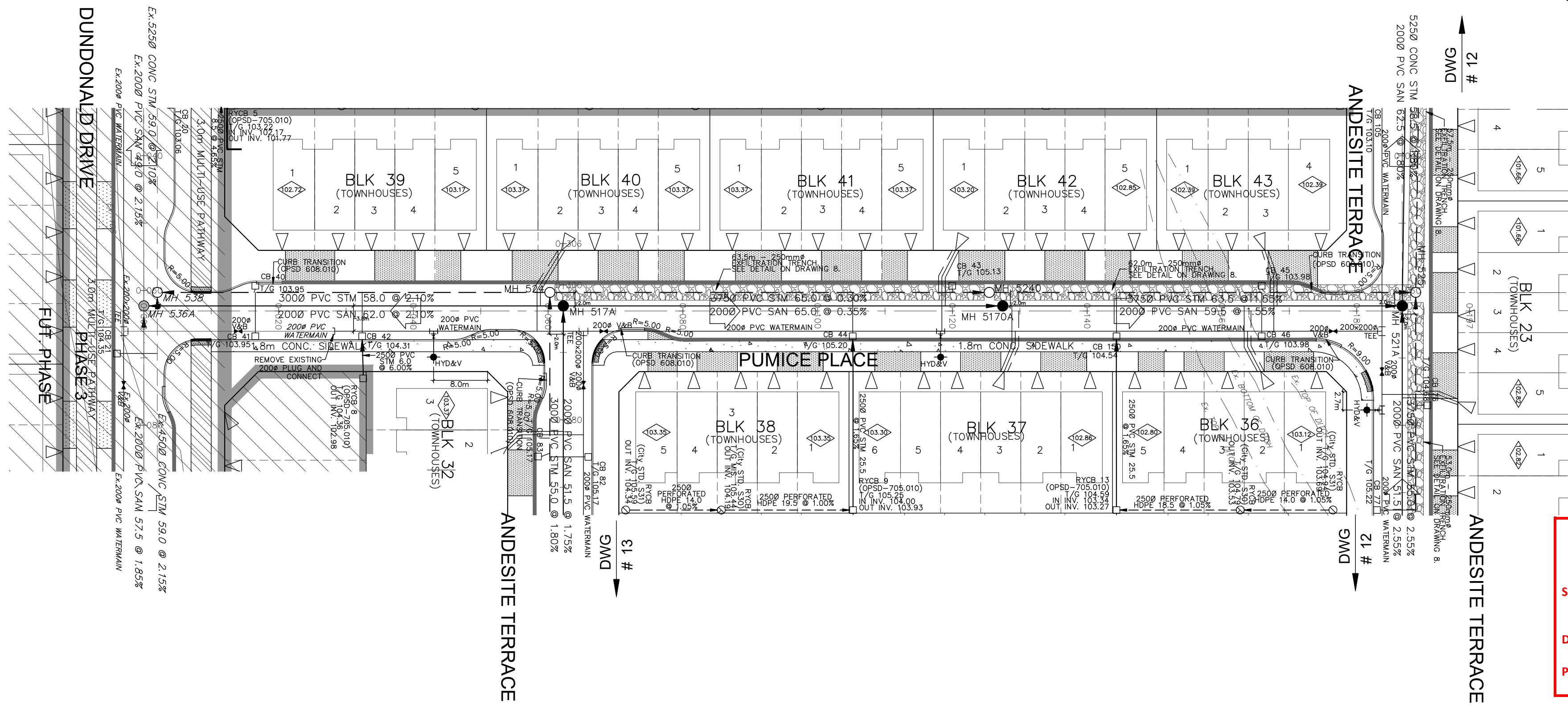
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PAVEMENT DESIGN

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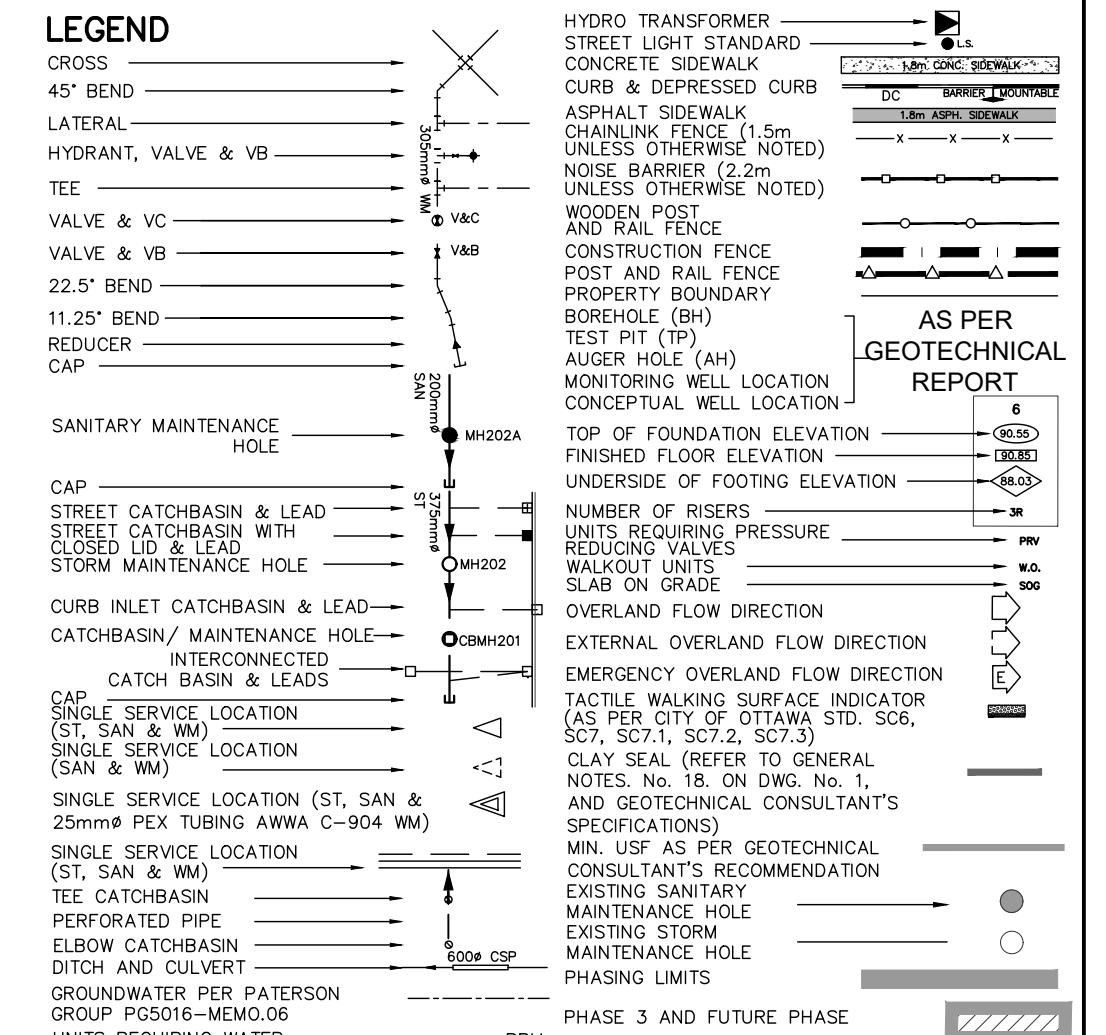
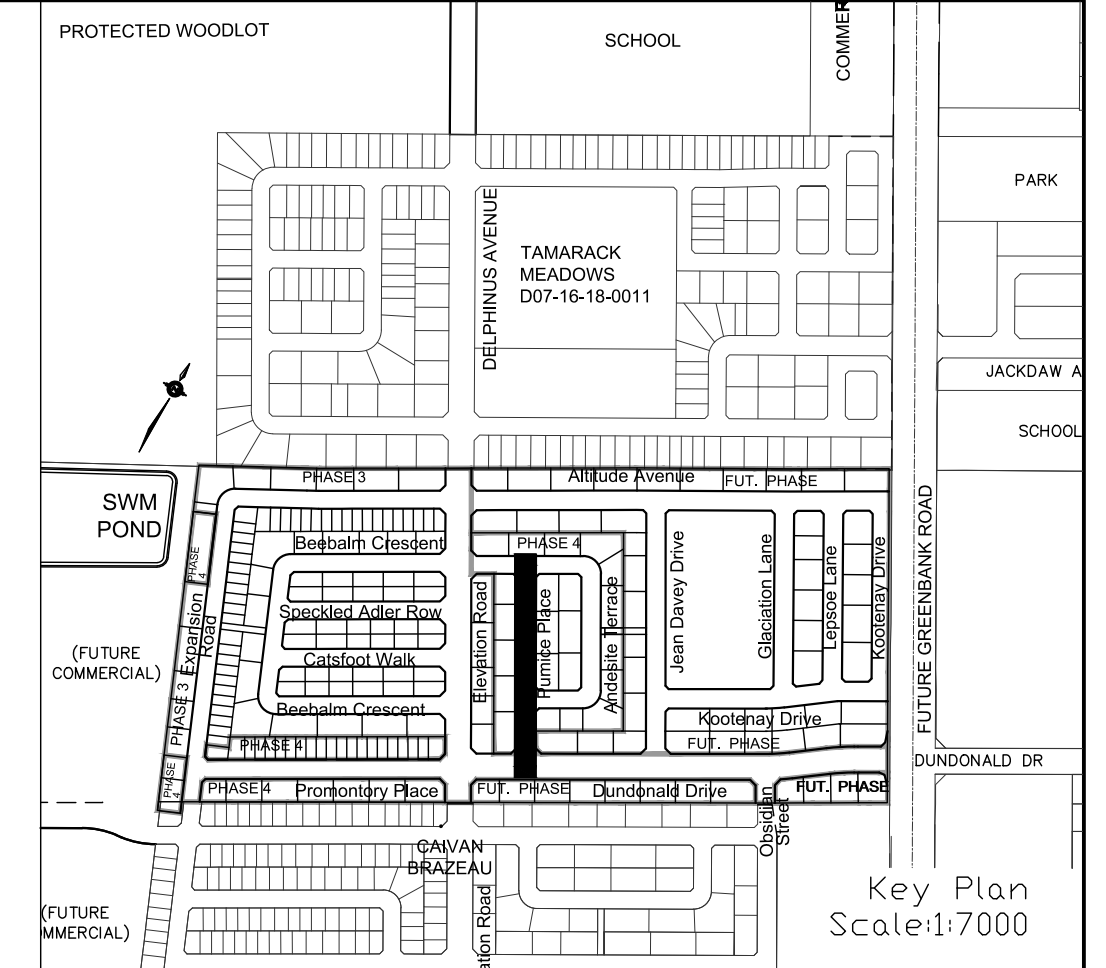


REVIEWED BY DEVELOPMENT REVIEW BRANCH

Signed: *[Signature]*

Date: June 7, 2024

Plan Number: 17803



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CITY OF OTTAWA

PROJECT No. 19-1123

W. LIU
 LICENSED PROFESSIONAL ENGINEER
 100167932
 PROVINCE OF ONTARIO

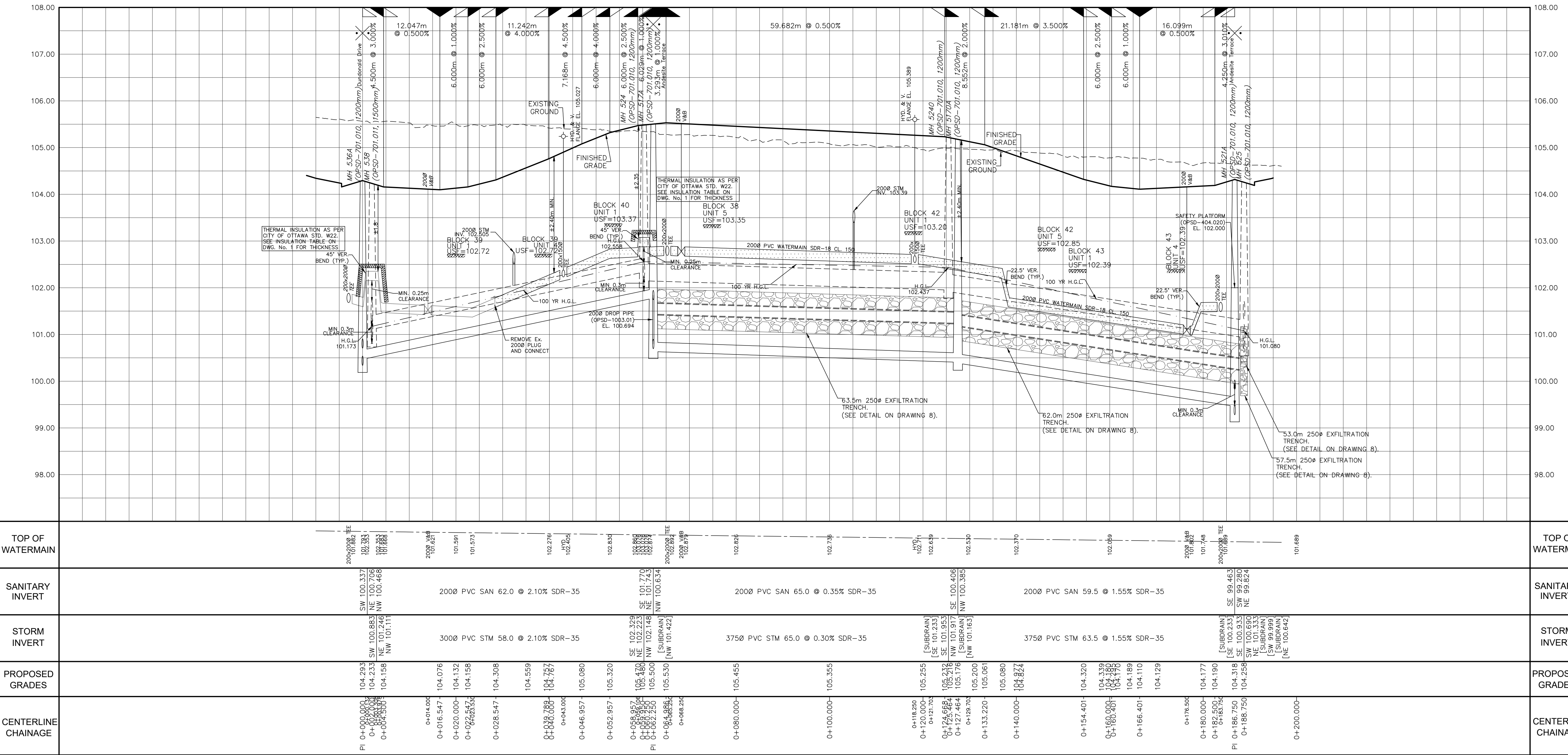
Pumice Place
 STA. 0+000 TO STA. 0+196.750

CAIVAN COMMUNITIES THE RIDGE PHASE 4

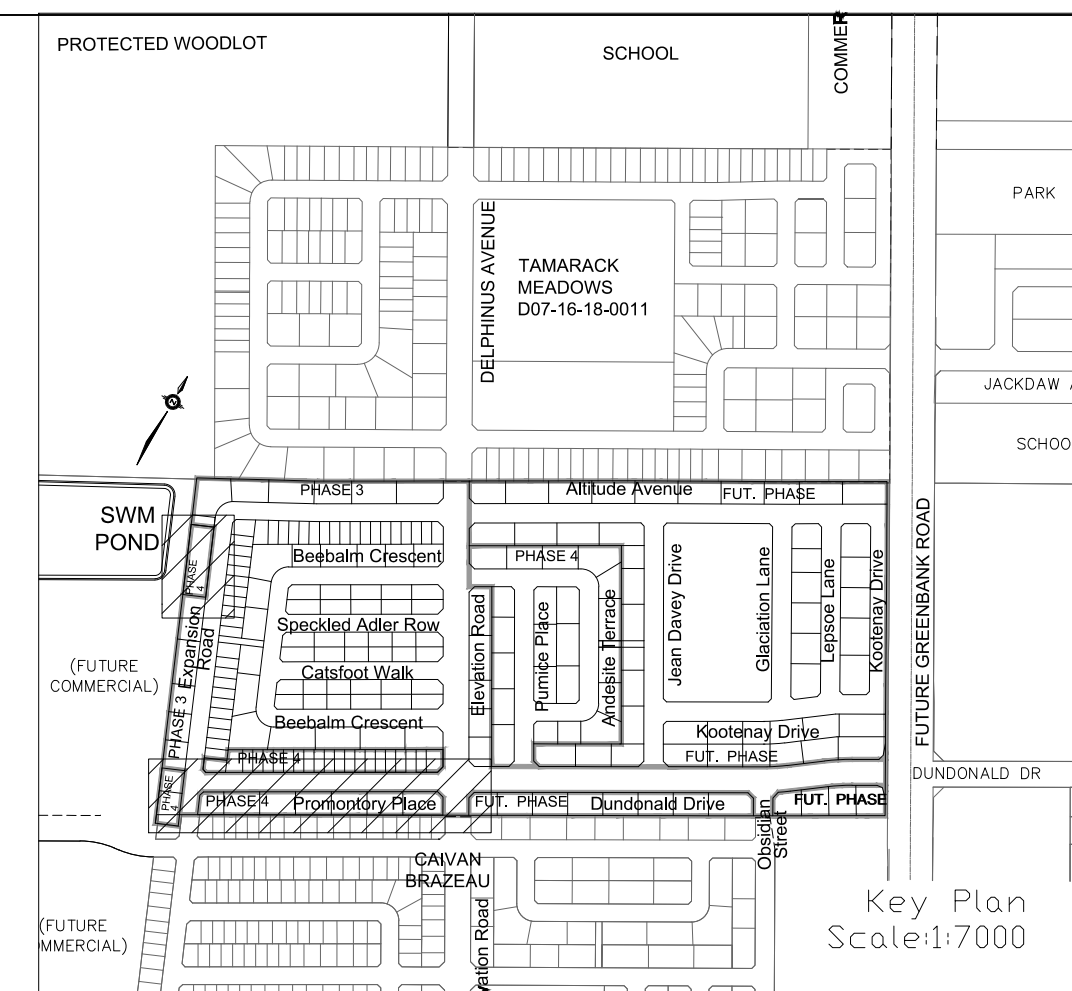
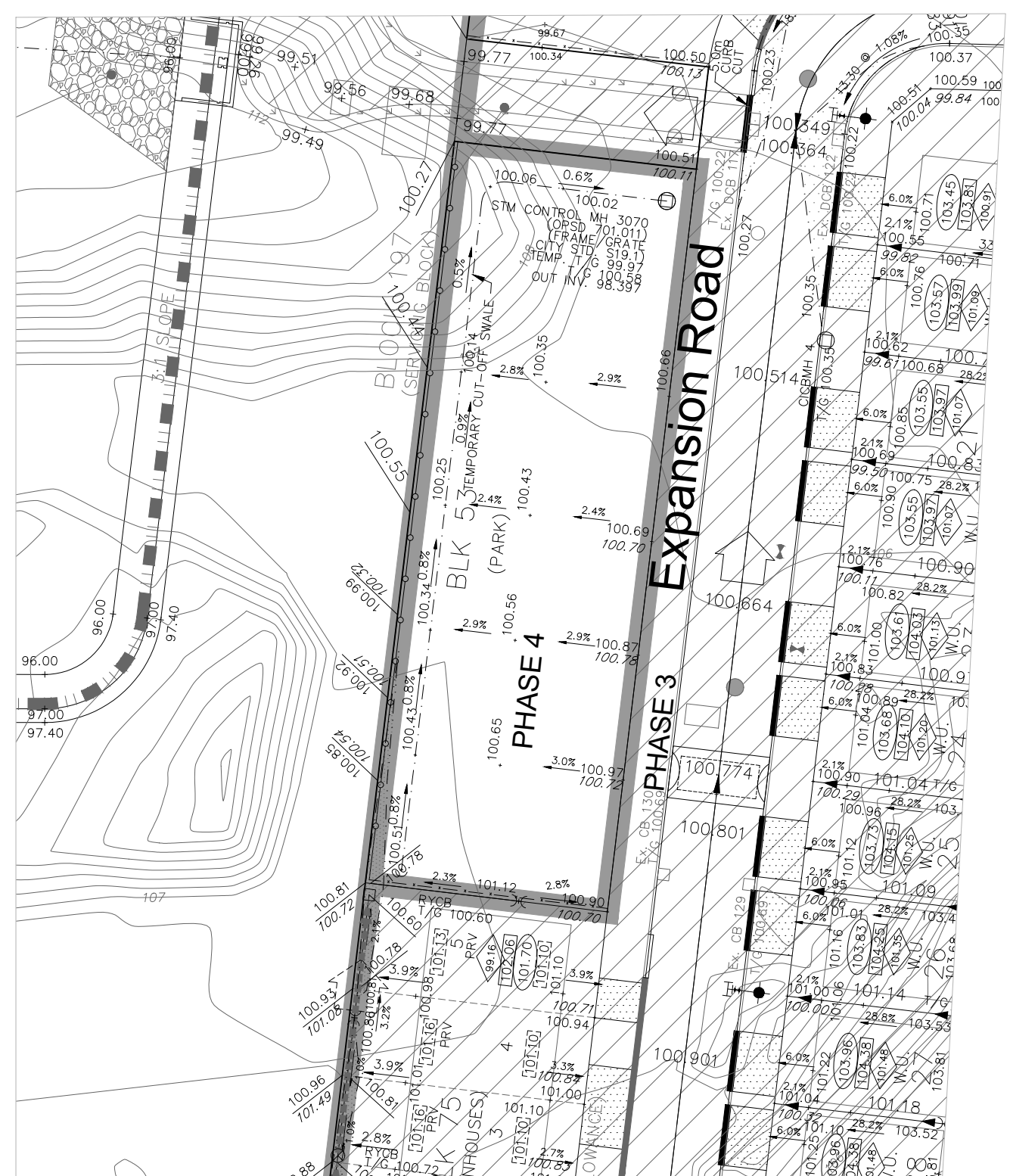
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 DESIGNED BY: W.L. CHECKED BY: C.M. _____
 SCALE: H=1:500/V=1:50 DATE: OCTOBER 2021 14

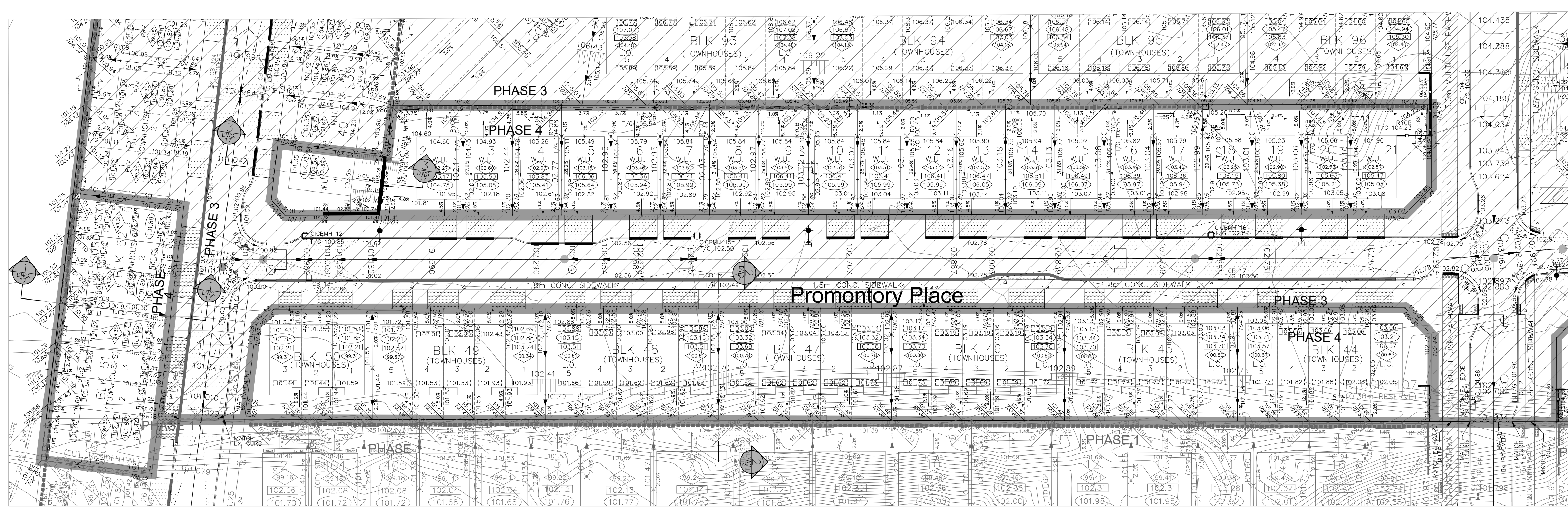


CITY PLAN No. 17803 CITY FILE No. D07-16-20-0015



LEGEND

PROPOSED ELEVATION	→ 103.45	OVERLAND FLOW DIRECTION	→
EXISTING ELEVATION	→ 102.73	EXTERNAL OVERLAND FLOW DIRECTION	→
PROPOSED SWALE GRADE	→ 1.2%	EMERGENCY OVERLAND FLOW DIRECTION	→
HIGH POINT	→ X 102.16	RETAINING WALL AND ELEVATIONS	→
STREET CATCHBASIN	→	CHAINLINK FENCE (1.5m UNLESS OTHERWISE NOTED)	→
STREET CATCHBASIN WITH CLOSED LID	→	NOISE BARRIER (2.2m UNLESS OTHERWISE NOTED)	→
CATCH-BASIN MANHOLE	→	WOODEN POST AND RAIL FENCE	→
TEE CATCHBASIN	→	CONSTRUCTION FENCE	→
ELBOW CATCHBASIN	→	PROPERTY BOUNDARY	→
HYDRANT, VALVE & VB	→	3:1 TERRACING MAXIMUM SLOPE	→
VALVE & VC	→	PONDING AREA WITH SPILLWAY ELEVATION (MAXIMUM 0.30m)	→
VALVE & VB	→	250Ø PVC PERFORATED PIPE (REFER TO CITY STD S29 FOR REAR YARD TRENCH AND PIPE DETAILS ONLY) (SUBDRAIN APPLIED FOR SLOPE LESS THAN 1.5%)	→
BUILDING ENVELOPE	→	HYDRO TRANSFORMER	→
TOP OF FOUNDATION (TOF)	→ 04.70	STREET LIGHT STANDARD	→
FINISHED FLOOR ELEVATION (FFE)	→ 05.00	TACTILE WALKING SURFACE INDICATOR (AS PER CITY OF OTTAWA STD. SC6)	→
UNDERSIDE OF FOOTING ELEVATION (UST)	→ 02.00	EXISTING SANITARY MAINTENANCE HOLE	→
FRONT/REAR ENVELOPE ELEVATION	→ 02.70	EXISTING STORM MAINTENANCE HOLE	→
WALKOUT UNITS	→ W.O.	FIREWALL PHASING LIMITS	→
SLAB ON GRADE	→ S.O.G.		
PHASE 3 AND FUTURE PHASE			



REFER TO DWG No. 16

NOTES:

1. ANY DISTURBED AREA DURING CONSTRUCTION TO BE RESTORED TO THE ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITIES HAVING JURISDICTION
2. CONTRACTOR TO VERIFY THE PRESENT LOCATIONS AND INVERT ELEVATIONS OF EX. UNDERGROUND SERVICES AND EX. UTILITIES PRIOR TO STARTING CONSTRUCTION
3. ALL EXISTING ABOVE GROUND FEATURES, E.G. MH/CHAMBER COVERS, PEDESTALS, HYDRO AND LIGHT POLES, ETC. AFFECTED BY THE DEVELOPMENT TO BE ADJUSTED TO SUIT TO THE SATISFACTION OF PARTIES AFFECTED
4. ALL EXISTING BUILDING, SHED, POST & WIRE FENCE, CHAIN LINK FENCE, TREE, UTILITY WIRE, POLE, CULVERT AND POOL WITHIN LOTS AND BLOCKS TO BE REMOVED, UNLESS OTHERWISE NOTED
5. ALL EXISTING POST & WIRE FENCE, CULVERTS, UTILITY WIRE / POLES, TREES, SHRUBS ETC. WITHIN LOTS, BLOCKS AND ROADS TO BE REMOVED, UNLESS OTHERWISE NOTED
6. PERMISSION REQUIRED FOR REMOVAL OF EXISTING TREES ON EXTERNAL LANDS WHERE APPLICABLE
7. PERMISSION REQUIRED FOR WORK ON ADJACENT LANDS
8. FOR ICD APPLICATION, REFER TO DETAILS AND TABLE DRAWING (DWG.3) FOR DETAIL
9. FOR RLOC LAYOUT & TYPICAL EASEMENT DETAIL REFER TO DRAWING No. 4
10. A GEOTECHNICAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO IS TO INSPECT ALL SUBGRADE SURFACES FOR FOOTING AND PAVEMENT STRUCTURES PRIOR TO CONSTRUCTION
11. PERFORATED PIPE IS REQUIRED FOR SWALE SLOPE LESS THAN 1.5%. REFER TO CITY STD. S29, S30 FOR REAR YARD TRENCH AND PIPE DETAIL ONLY

TOPOGRAPHIC INFORMATION
 RIDEAU FRONT (JULY 10, 2019) AND BORRISOKANE ROAD (JULY 10, 2019)
 PROVIDED BY STANTEC (PROJECT No. 18-10-145-00)

LEGAL INFORMATION
 M-PLAN PROVIDED BY J.D. BARNES, PROJECT No. 19-10-074-00, DATED ON FEBRUARY 9, 2024.

ELEVATION NOTE
 ELEVATIONS SHOWN HEREON ARE GEODETIC (CGVD-1928:1978) AND ARE DERIVED FROM THE CAN-NET VRS NETWORK MONUMENT: OTTAWA
 ELEVATION = 95.205m

No.	BY	DATE	DESCRIPTION
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3	W.L.	24-04-12	ISSUED FOR CONSTRUCTION
2	W.L.	24-03-21	2nd SUBMISSION
1	W.L.	24-01-19	1st SUBMISSION



PROJECT No. 19-1123

W. LIU
 LICENSED PROFESSIONAL ENGINEER
 100167932
 PROVINCE OF ONTARIO

GRADING PLAN

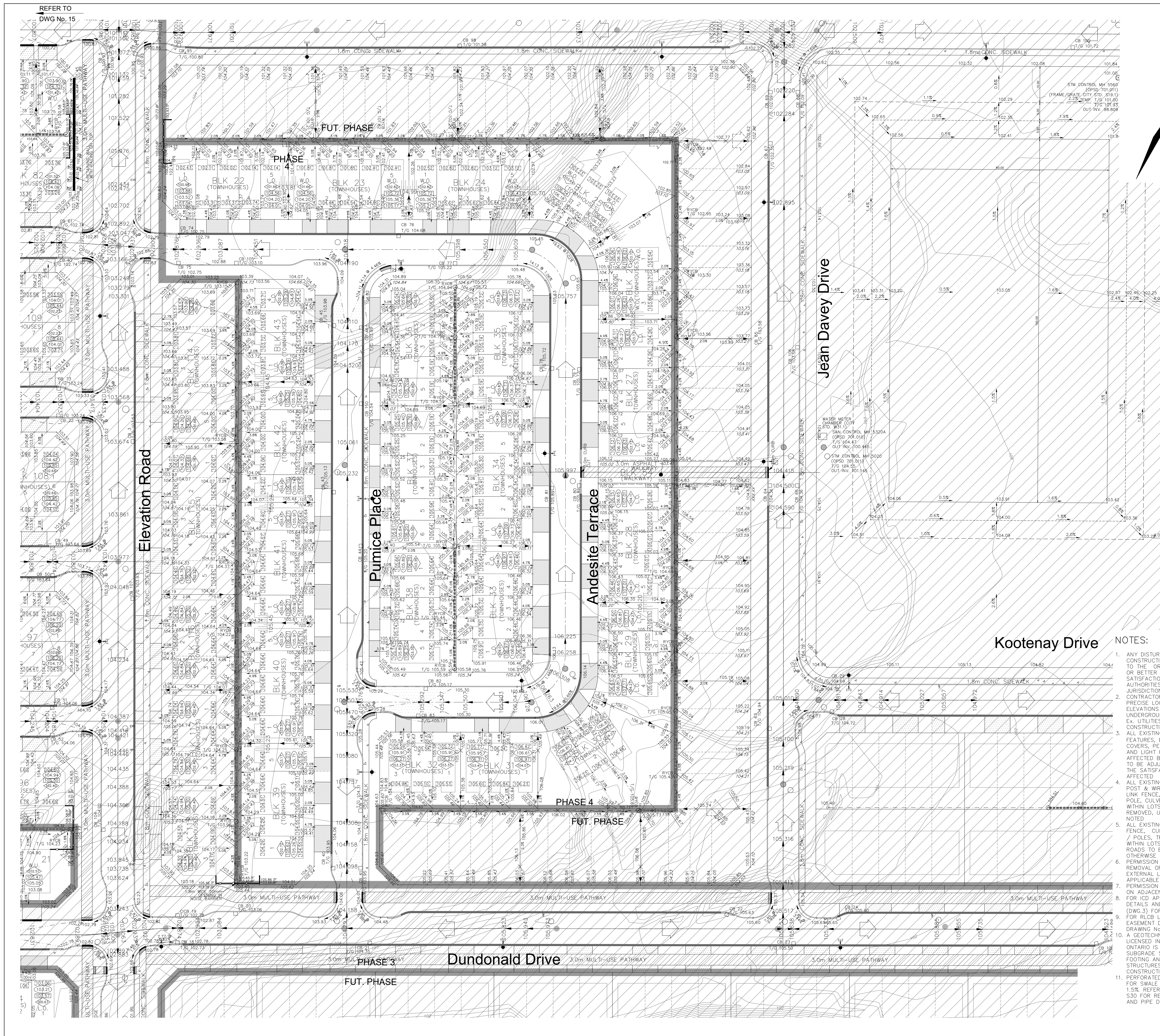
CAIVAN COMMUNITIES THE RIDGE PHASE 4

DSEL

120 Iker Road, Unit 103
 Sittsville, ON K2S 1E9
 Tel. (613) 836-0856
 Fax. (613) 836-7183
 www.DSEL.ca

DRAWN BY: V.W.	CHECKED BY: W.L.	SHEET NO.
DESIGNED BY: W.L.	CHECKED BY: C.M.	15
SCALE: 1:1000	DATE: MAY 2023	

THE RIDGE PHASE 1
 REFER TO
 DAVID SCHAEFFER ENGINEERING LIMITED
 PROJECT No. 18-1030



LEGEND

PROPOSED ELEVATION	→ 103.45	OVERLAND FLOW DIRECTION	→
EXISTING ELEVATION	→ 102.73	EXTERNAL OVERLAND FLOW DIRECTION	→
PROPOSED SWALE GRADE	→ 1.2%	EMERGENCY OVERLAND FLOW DIRECTION	→
HIGH POINT	⊗ 102.16	RETAINING WALL AND ELEVATIONS	0.7m/102.50
STREET CATCHBASIN	⊕	CHAINLINK FENCE (1.5m UNLESS OTHERWISE NOTED)	0.7m/102.44
STREET CATCHBASIN WITH CLOSED LID	⊕	NOISE BARRIER (2.2m UNLESS OTHERWISE NOTED)	
CATCH-BASIN MANHOLE	⊕	WOODEN POST AND RAIL FENCE	
TEE CATCHBASIN	⊕	CONSTRUCTION FENCE	
ELBOW CATCHBASIN	⊕	PROPERTY BOUNDARY	
HYDRANT, VALVE & VB	⊕	3:1 TERRACING MAXIMUM SLOPE	
VALVE & VC	⊕	PONDING AREA WITH SPILLWAY ELEVATION (MAXIMUM 0.30m)	
VALVE & VB	⊕	250# PVC PERFORATED PIPE (REFER TO CITY STD S29 FOR REAR YARD TRENCH AND PIPE DETAILS ONLY)	
BUILDING ENVELOPE	⊕	W.O. (SUBDRAIN APPLIED FOR SLOPE LESS THAN 1.5%)	
TOP OF FOUNDATION (TOF)	⊕	SOG	
FINISHED FLOOR ELEVATION (FFE)	⊕	HYDRO TRANSFORMER	
UNDERSIDE OF FOOTING ELEVATION (USF)	⊕	STREET LIGHT STANDARD	
FRONT/REAR ENVELOPE ELEVATION	⊕	TACTILE WALKING SURFACE INDICATOR (AS PER CITY OF OTTAWA STD. SC6)	
SLAB ON GRADE	⊕	UNITS REQUIRING WATER PRESSURE REDUCING VALVES	
HYDRO TRANSFORMER	⊕	UNIT TYPE:	
STREET LIGHT STANDARD	⊕	W.O.=WALK OUT	
TACTILE WALKING SURFACE INDICATOR (AS PER CITY OF OTTAWA STD. SC6)	⊕	W.U.=WALK UP	
UNITS REQUIRING WATER PRESSURE REDUCING VALVES	⊕	EXISTING SANITARY MAINTENANCE HOLE	
UNIT TYPE:	⊕	EXISTING STORM MAINTENANCE HOLE	
W.O.=WALK OUT	⊕	FIREWALL	
W.U.=WALK UP	⊕	PHASING LIMITS	

PHASE 3 AND FUTURE PHASE

TOPOGRAPHIC INFORMATION
 RIDEAU FRONT (JULY 10, 2019) AND BORRISOKANE ROAD (JULY 10, 2019)
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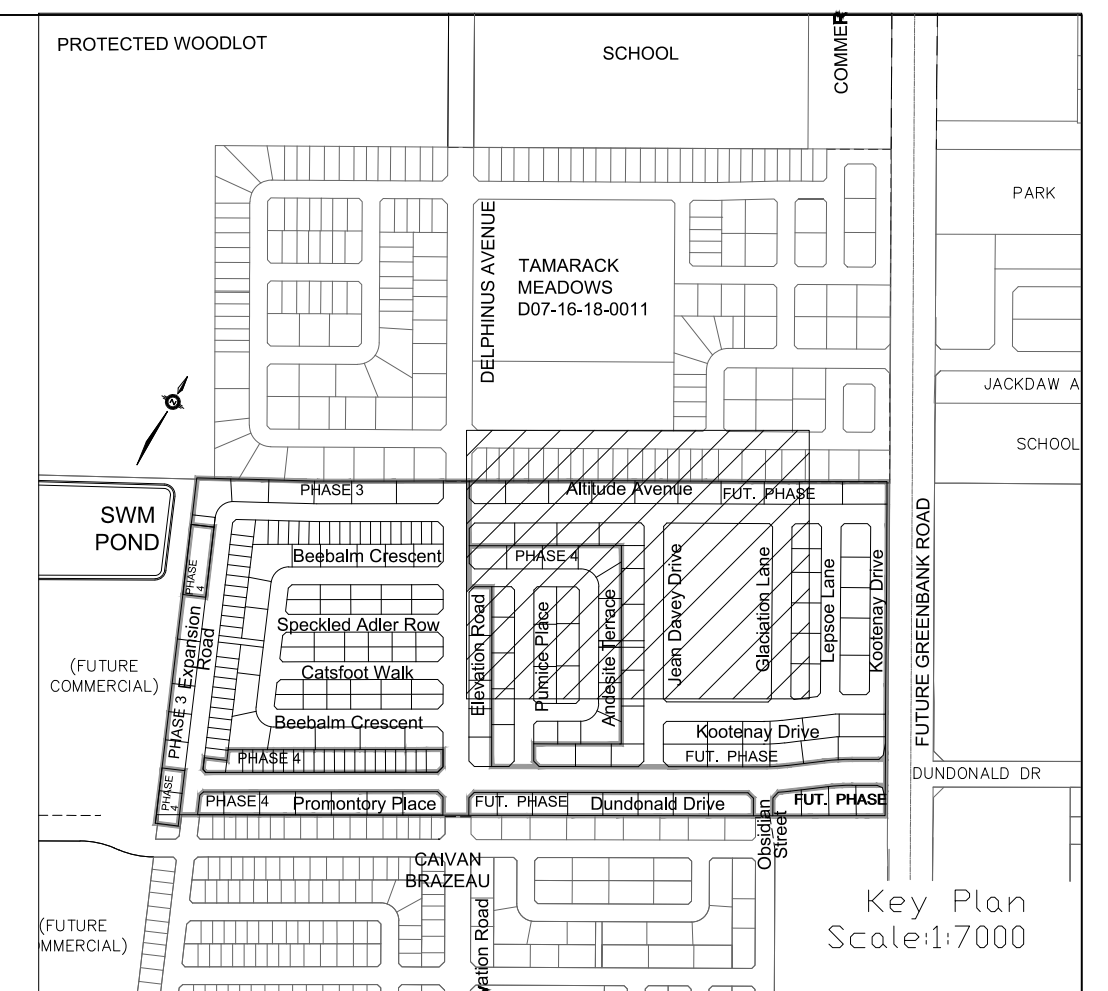
LEGAL INFORMATION
 M-PLAN PROVIDED BY J.D. BARNES, PROJECT No. 19-10-074-00, DATED ON FEBRUARY 9, 2024.

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1	W.L.	24-01-19	1st SUBMISSION

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CITY OF OTTAWA

PROJECT No. 19-1123

GRADING PLAN

CAIVAN COMMUNITIES THE RIDGE PHASE 4

DSEL

120 Iber Road, Unit 103
 Sittsville, ON K2S 1E9
 Tel. (613) 836-0856
 Fax. (613) 836-7183
 www.DSEL.ca

DRAWN BY: V.W.	CHECKED BY: W.L.	SHEET NO.
DESIGNED BY: W.L.	CHECKED BY: C.M.	16
SCALE: 1:1000	DATE: MAY 2023	

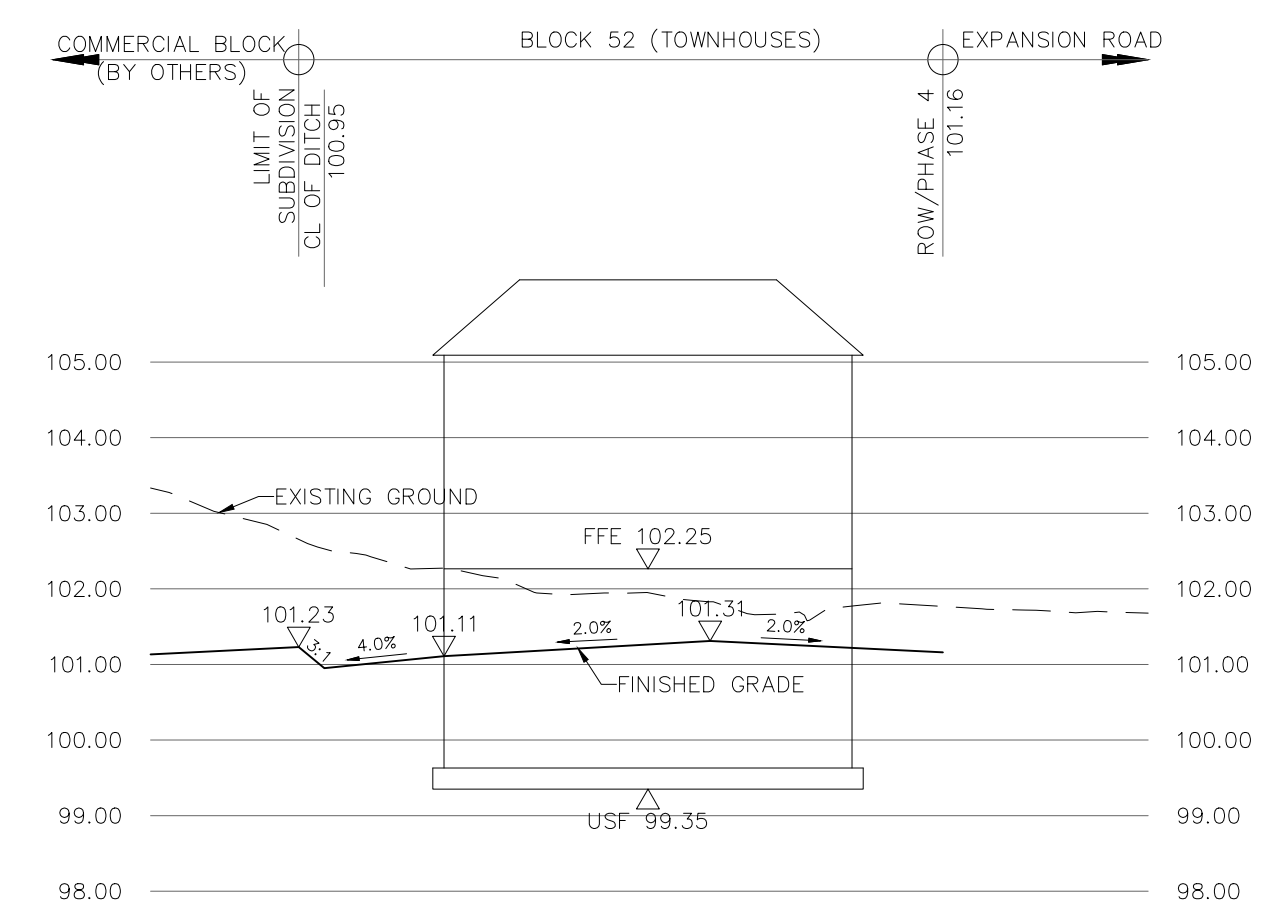
CITY PLAN No. 17803
 CITY FILE No. D07-16-20-0015

REVIEWED BY DEVELOPMENT REVIEW BRANCH

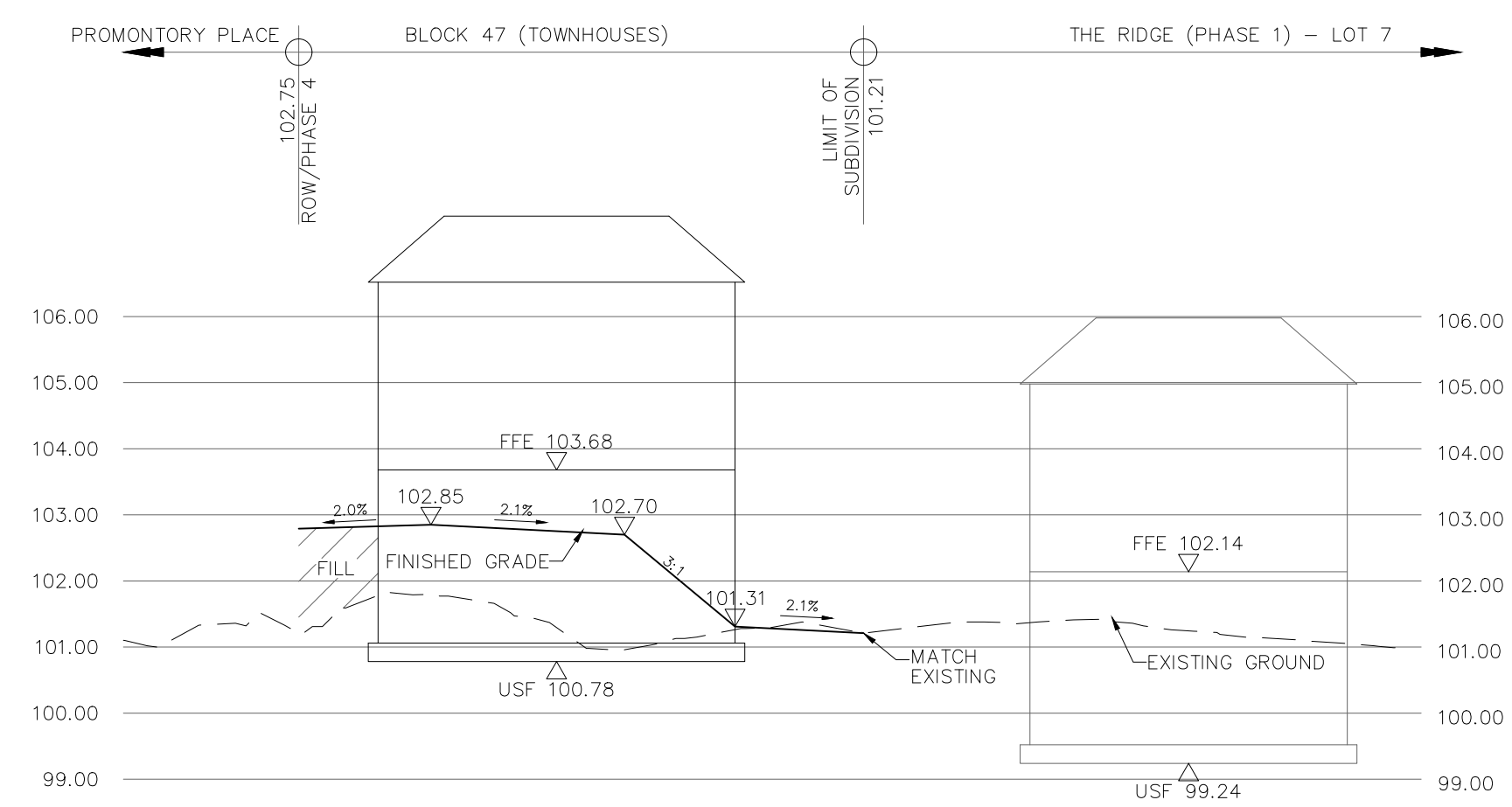
Signed *[Signature]*

Date June 7, 2024

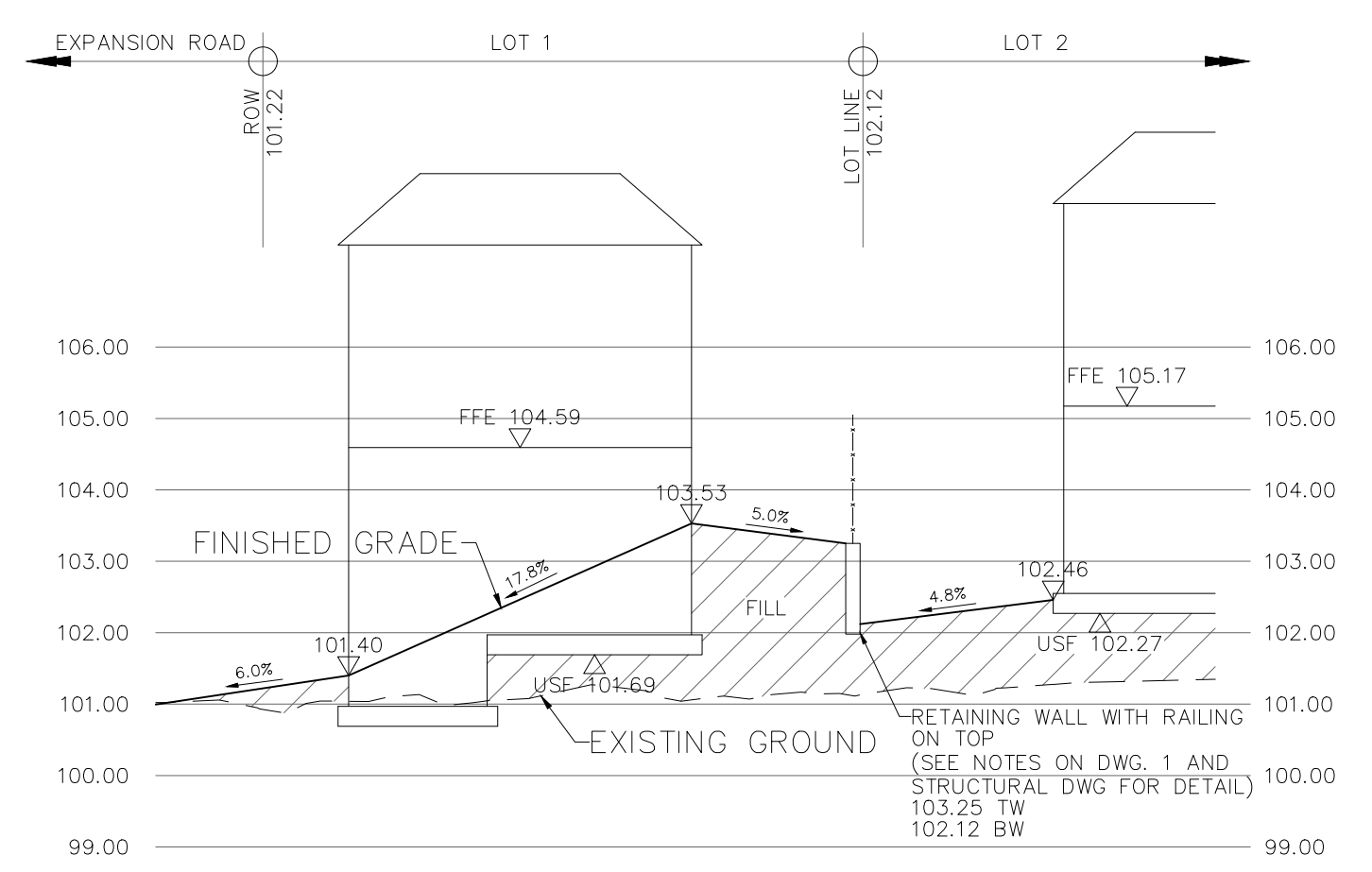
Plan Number 17803



SECTION 1-1
SCALE HOR: 1:250
VER: 1:100



SECTION 2-2
SCALE HOR: 1:250
VER: 1:100



RETAINING WALL WITH RAILING ON TOP
(SEE NOTES ON DWG. 1 AND STRUCTURAL DWG FOR DETAIL)
103.25 TW
102.12 BW

TOPOGRAPHIC INFORMATION
RIDEAU FRONT (JULY 10, 2019) AND BORRISOKANE ROAD (JULY 10, 2019)
PROVIDED BY STANTEC (PROJECT No. 18-10-145-00)

LEGAL INFORMATION
M-PLAN PROVIDED BY J.D. BARNES, PROJECT No. 19-10-074-00, DATED ON FEBRUARY 9, 2024.

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Ottawa CITY OF OTTAWA

PROJECT No. 19-1123

W. LIU
100167932
24-06-03
PROVINCE OF ONTARIO

CROSS SECTIONS

CAIVAN COMMUNITIES THE RIDGE PHASE 4

DSEL 120 Iber Road, Unit 103
Stittsville, ON K2S 1E9
Tel: (613) 836-0856
Fax: (613) 836-7183
www.DSEL.ca

DRAWN BY: V.W.	CHECKED BY: W.L.	SHEET NO.
DESIGNED BY: W.L.	CHECKED BY: C.M.	17
SCALE: AS SHOWN	DATE: MAY 2023	

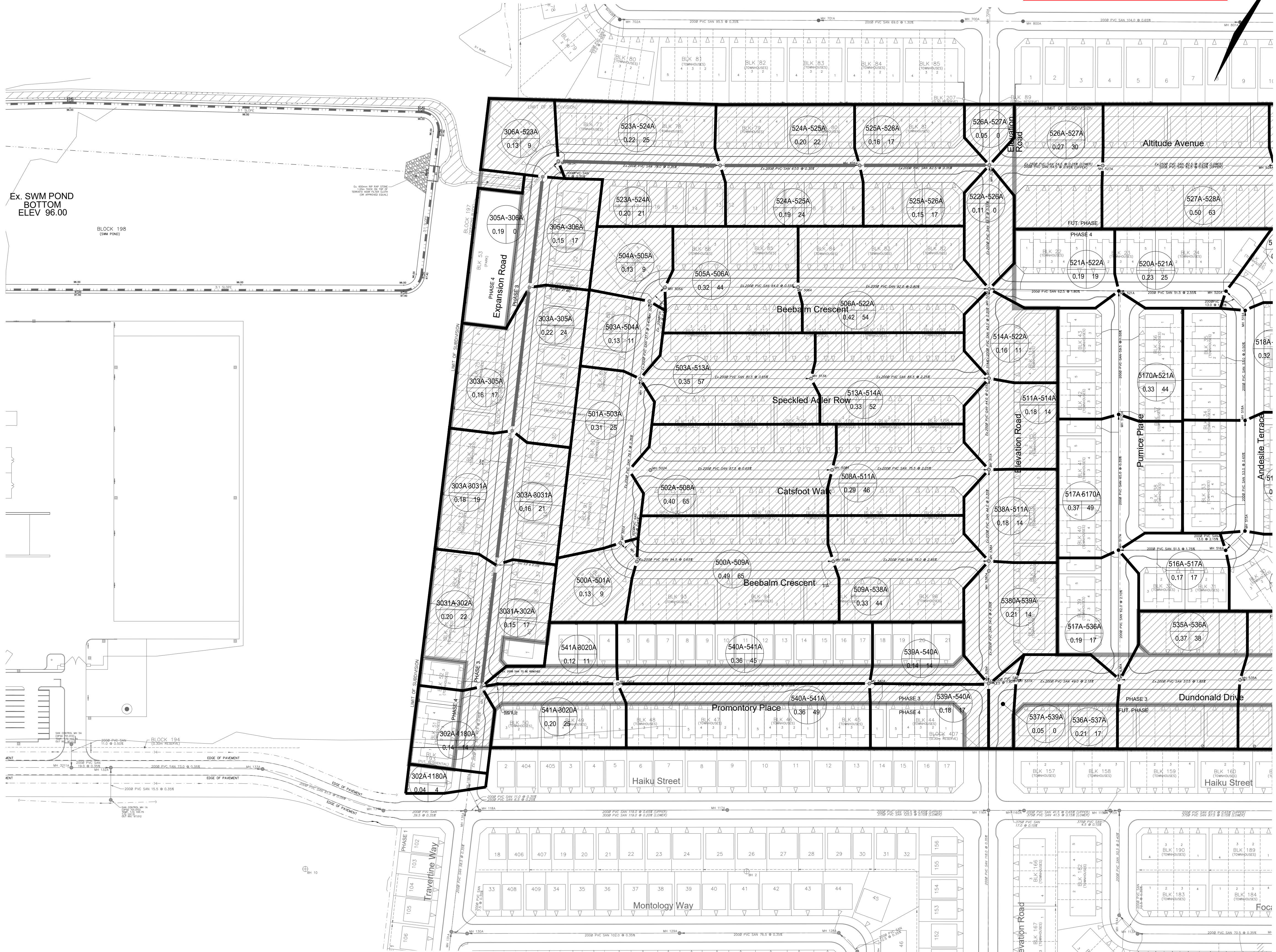
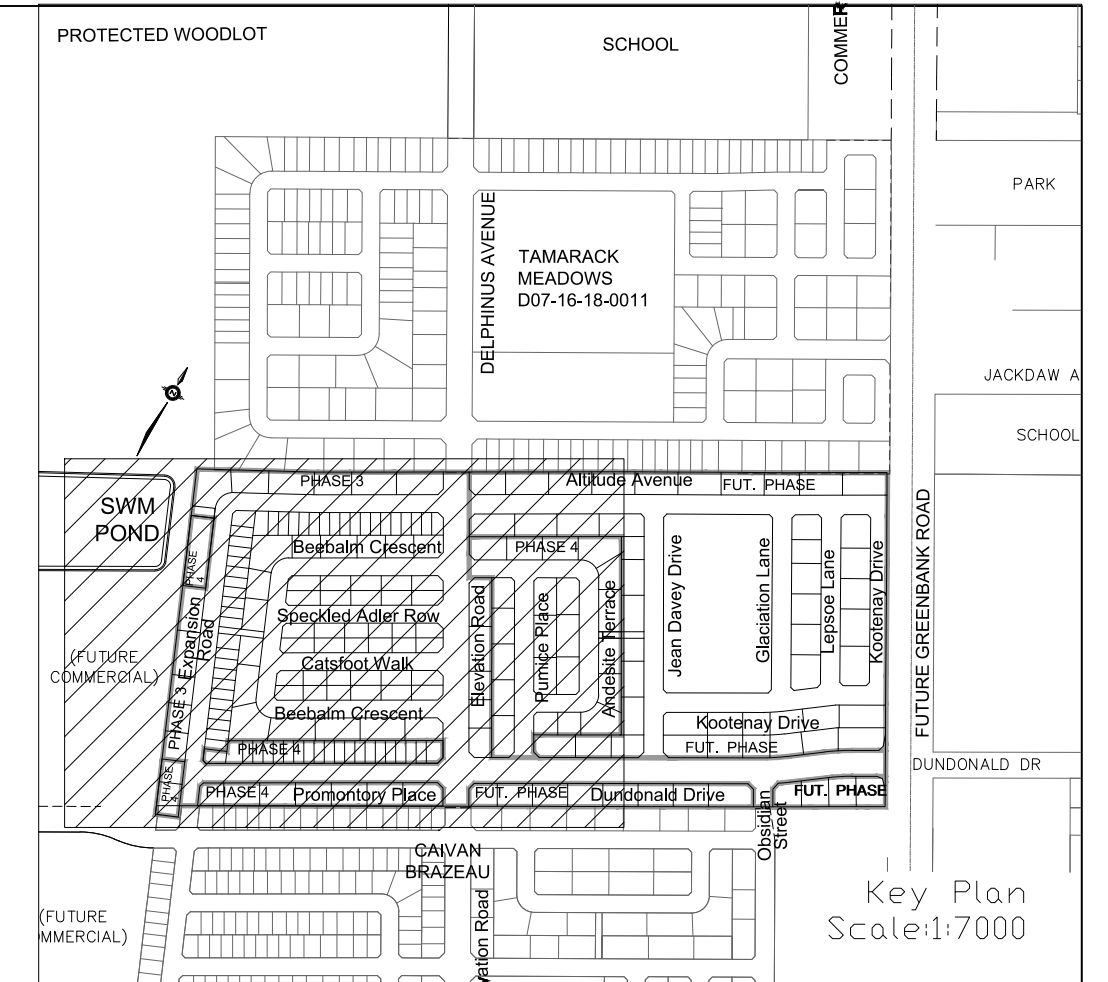
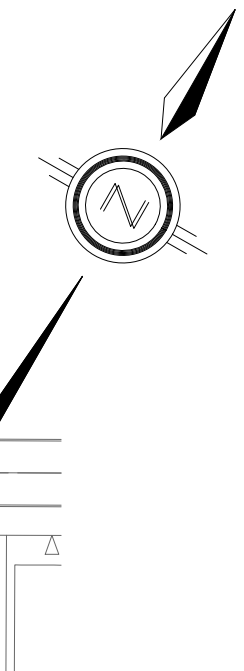
CITY FILE No. D07-16-20-0015 CITY PLAN No. 17803

REVIEWED BY DEVELOPMENT REVIEW BRANCH

Signed *[Signature]*

Date June 7, 2024

Plan Number 17803



Ex. SWM POND
BOTTOM
ELEV 96.00

LEGEND

SANITARY DRAINAGE BOUNDARY

SANITARY SUB-DRAINAGE BOUNDARY

UPSTREAM MH TO DOWNSTREAM MH → 43A - 44A

AREA IN HECTARES → 0.78 61

POPULATION → 107 POP=5739

UPSTREAM MH TO DOWNSTREAM MH → 43A-44A

AREA IN OTHER PHASES IN HECTARES → 0.78 61

POPULATION → A=53.63

EXTERNAL POPULATION → 107 POP=5739

DENSITY (PERSONS/HECTARE) → RESIDENTIAL

EXTERNAL LAND USE → RESIDENTIAL

MAINTENANCE HOLE → MH202A

CAP →

EXISTING SANITARY MAINTENANCE HOLE →

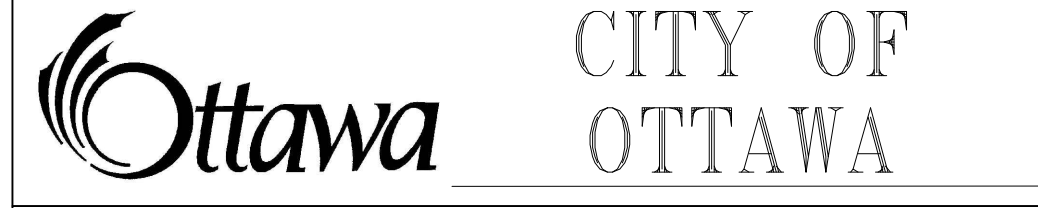
REFER TO
DWG No. 19

TOPOGRAPHIC INFORMATION
RIDEAU FRONT (JULY 10, 2019) AND BORRISOKANE ROAD (JULY 10, 2019)
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PROJECT No. 19-1123

W. LIU
100167932
P.E. (CIVIL)
PROVINCE OF ONTARIO

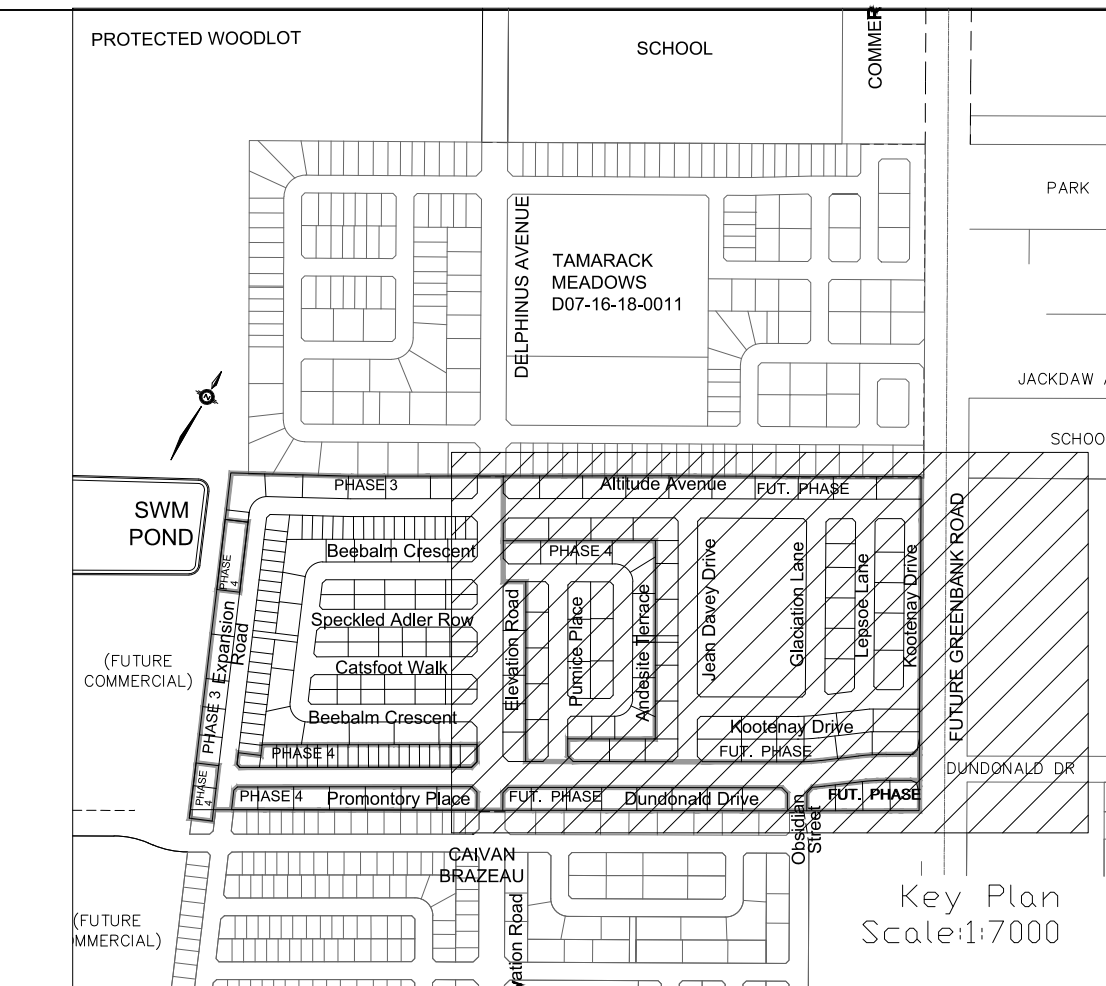
SANITARY DRAINAGE PLAN

CAIVAN COMMUNITIES THE RIDGE PHASE 4



DRAWN BY: V.W.	CHECKED BY: W.L.	SHEET No.
DESIGNED BY: W.L.	CHECKED BY: C.M.	18
SCALE: 1:1000	DATE: MAY 2023	

CITY PLAN No. 17803
CITY FILE No. D07-16-20-0015



REVIEWED BY DEVELOPMENT REVIEW BRANCH
 Signed *[Signature]*
 Date **June 7, 2024**
 Plan Number **17803**

LEGEND

SANITARY DRAINAGE BOUNDARY ————

SANITARY SUB-DRAINAGE BOUNDARY ————

UPSTREAM MH TO DOWNSTREAM MH → 43A-44A

AREA IN HECTARES → 0.78 61

POPULATION → 43A-44A

UPSTREAM MH TO DOWNSTREAM MH → 43A-44A

AREA IN OTHER PHASES IN HECTARES → 0.78 61

POPULATION → 43A-44A

EXTERNAL AREA IN HECTARES → A=53.63

EXTERNAL POPULATION → 107 POP=5739

DENSITY (PERSONS/HECTARE) → RESIDENTIAL

EXTERNAL LAND USE → RESIDENTIAL

MAINTENANCE HOLE → MH 2022A

CAP →

EXISTING SANITARY MAINTENANCE HOLE →

TOPOGRAPHIC INFORMATION
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CITY OF OTTAWA

PROJECT No. 19-1123

SANITARY DRAINAGE PLAN

CAIVAN COMMUNITIES THE RIDGE PHASE 4

DSEL 120 Iher Road, Unit 103
 Sittsville, ON K2S 1E9
 Tel. (613) 836-0856
 Fax. (613) 836-7183
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W. LIU
 100167932
 P.E. (PROV. OF ONTARIO)

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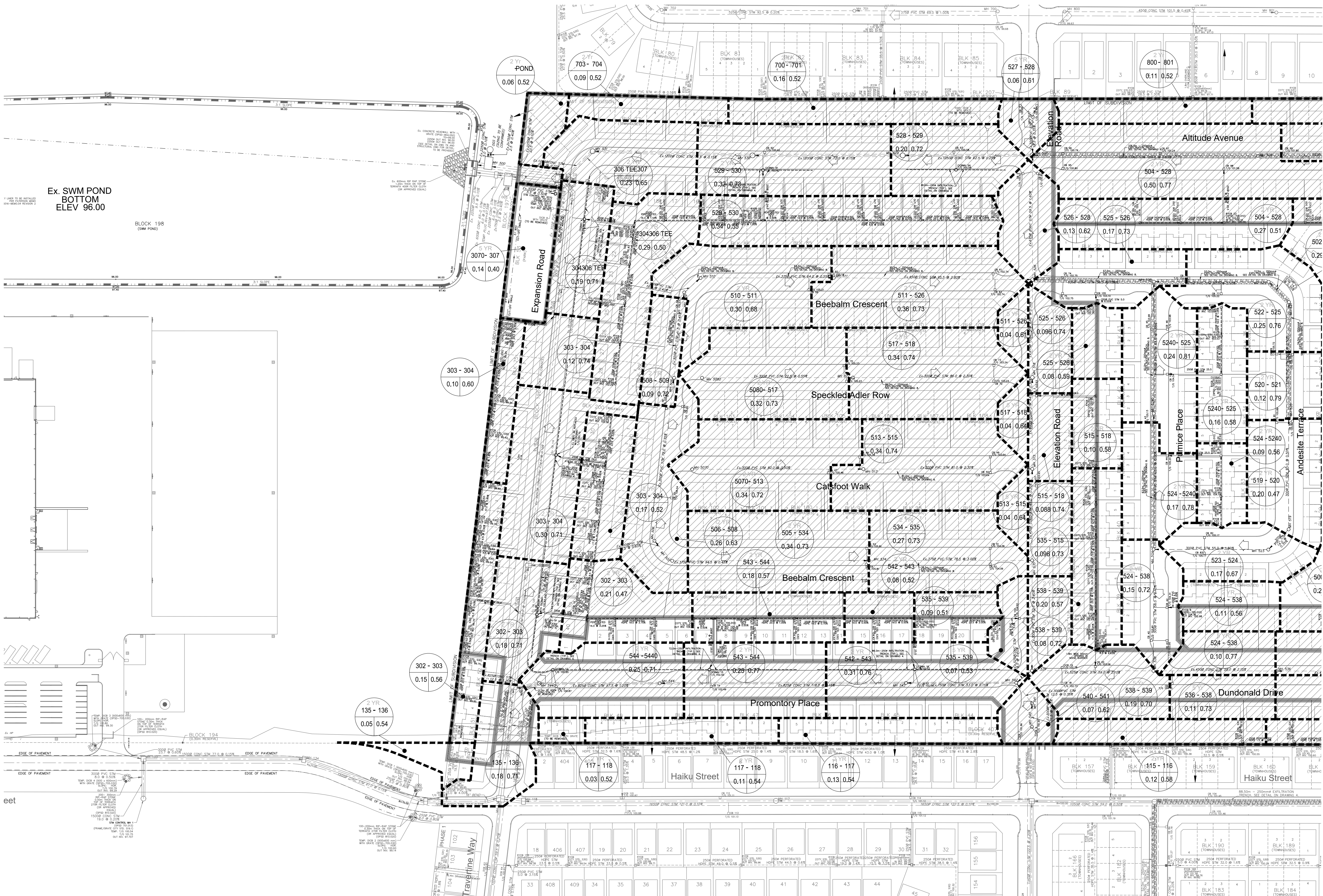
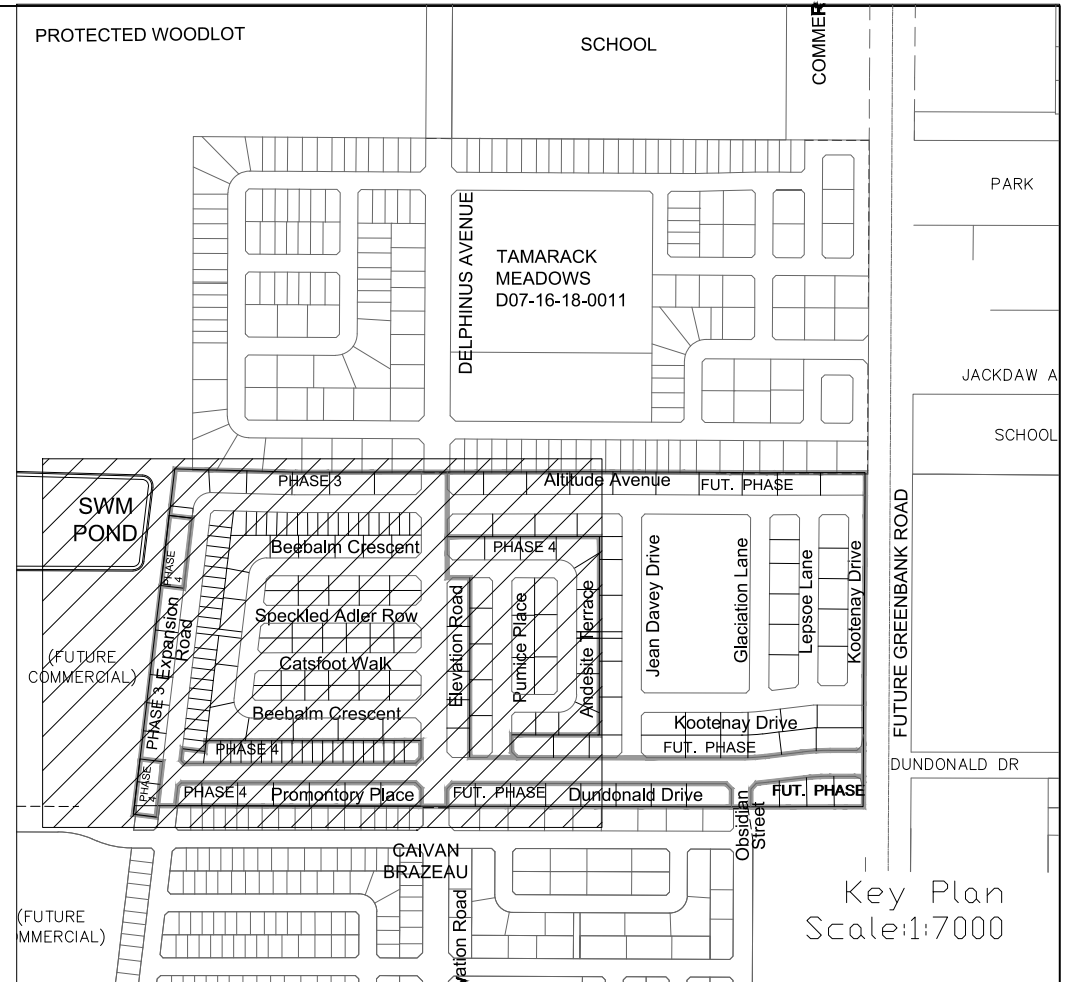
CITY PLAN No. 17803
CITY FILE No. D07-16-20-0015

REVIEWED BY DEVELOPMENT REVIEW BRANCH

Signed *[Signature]*

Date June 7, 2024

Plan Number 17803



LEGEND

- STORM DRAINAGE BOUNDARY
- SUB-DRAINAGE BOUNDARY
- STORM DRAINAGE BOUNDARY (OTHER PHASES)
- STORM FREQUENCY: 2YR: 43-44
- AREA IN HECTARES: 0.37/0.51
- RUNOFF COEFFICIENT: 2.78AC=14.40
- EXTERNAL TIME OF CONCENTRATION: Tc=14.5 MIN
- EXTERNAL BLENDED RUNOFF COEFFICIENT: C=0.70
- EXTERNAL STORM FREQUENCY: 2YR
- UPSTREAM MH TO DOWNSTREAM MH: 21-23
- AREA IN OTHER PHASES IN HECTARES: 0.28/0.78
- RUNOFF COEFFICIENT
- STREET CATCHBASIN & LEAD STREET CATCHBASIN WITH CLOSED LID & LEAD MAINTENANCE HOLE
- CURB INLET CATCHBASIN & LEAD CATCHBASIN/ MAINTENANCE HOLE
- INTERCONNECTED CATCH BASIN & LEADS
- CAP
- OVERLAND FLOW DIRECTION
- EXTERNAL OVERLAND FLOW DIRECTION
- EXISTING STORM MAINTENANCE HOLE

TOPOGRAPHIC INFORMATION
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PROJECT No. 19-1123

W. LIU
 100167932
 P.E. (CIVIL)
 PROVINCE OF ONTARIO

STORM DRAINAGE PLAN

CAIVAN COMMUNITIES THE RIDGE PHASE 4



DRAWN BY: V.W.	CHECKED BY: W.L.	SHEET NO.
DESIGNED BY: W.L.	CHECKED BY: C.M.	20
SCALE: 1:1000	DATE: MAY 2023	

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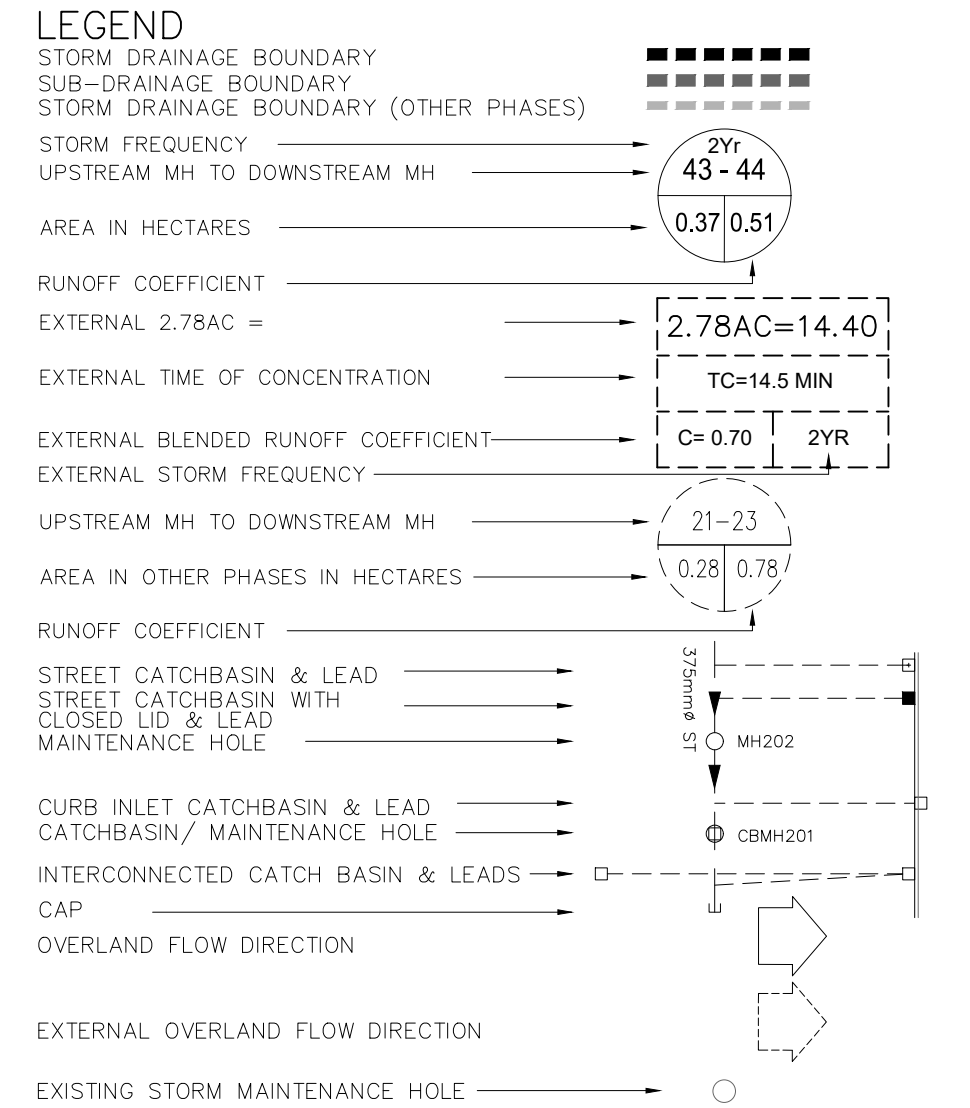
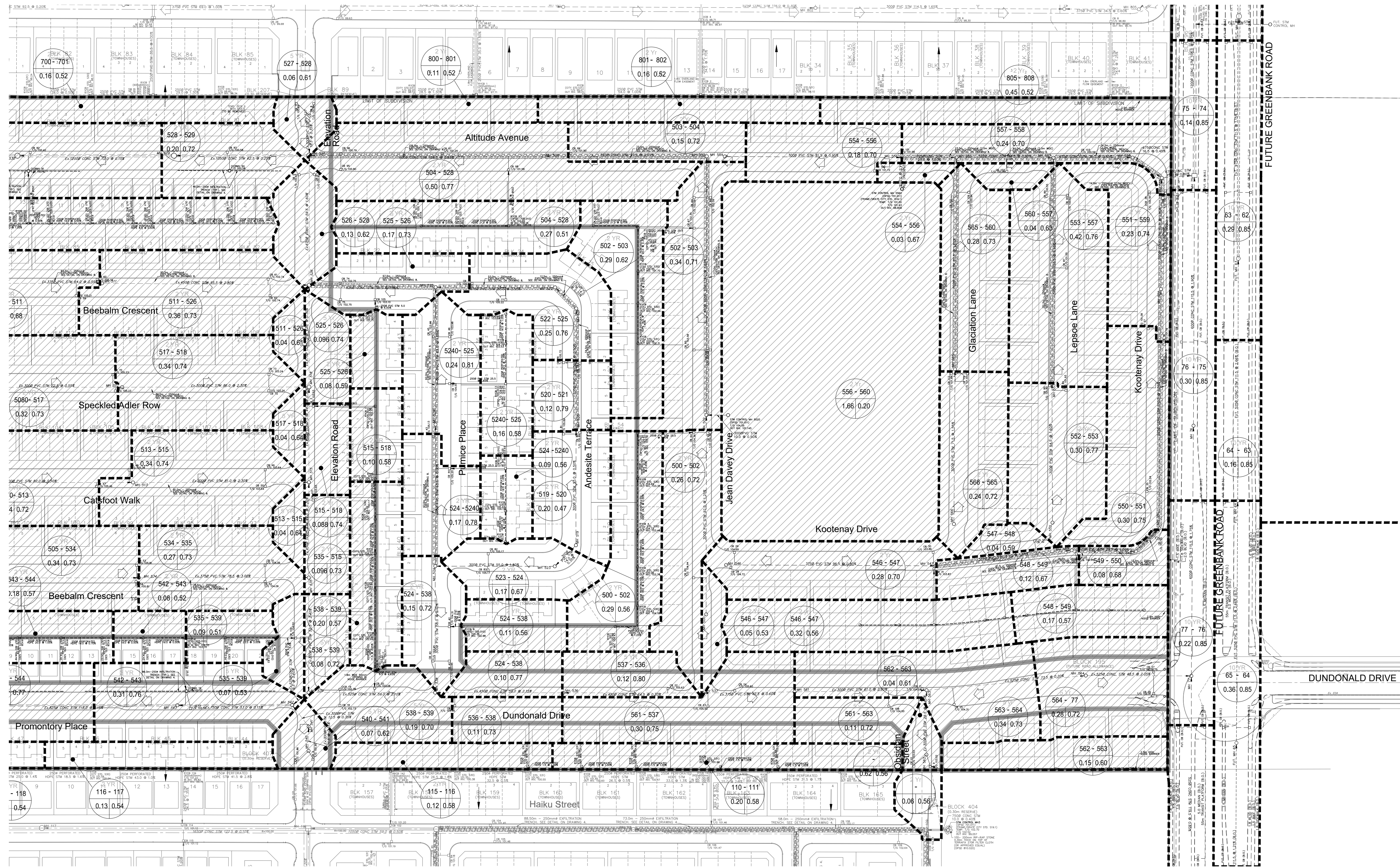
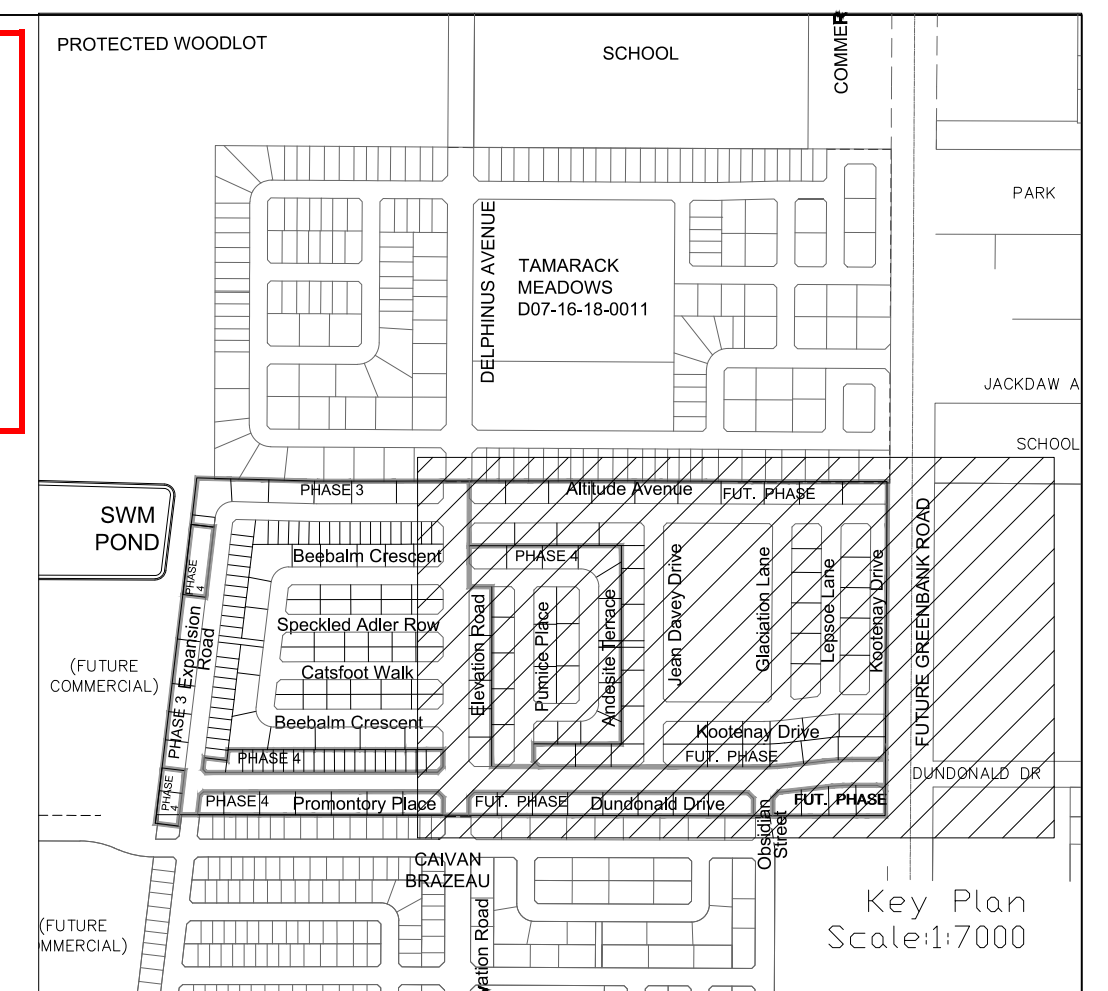
REFER TO
DWG No. 20

REVIEWED BY DEVELOPMENT REVIEW BRANCH

Signed *[Signature]*

Date June 7, 2024

Plan Number 17803



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PROJECT No. 19-1123

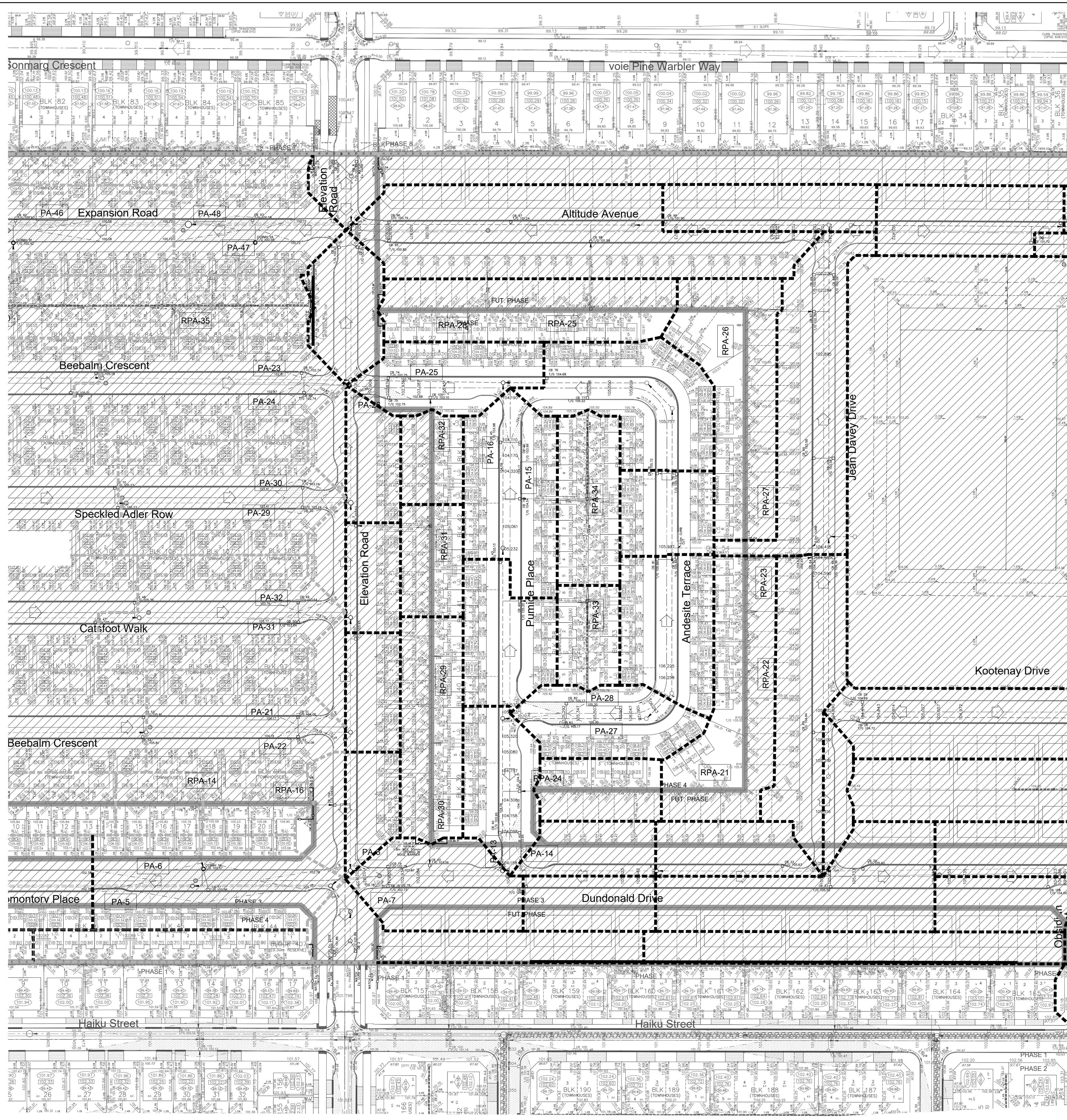
STORM DRAINAGE PLAN

CAIVAN COMMUNITIES THE RIDGE PHASE 4

DSEL 120 Iber Road, Unit 103
Suttonville, ON K2S 1E9
Tel. (613) 836-0856
Fax. (613) 836-7183
www.DSEL.ca

DRAWN BY: V.W.	CHECKED BY: W.L.	SHEET NO.
DESIGNED BY: W.L.	CHECKED BY: C.M.	21
SCALE: 1:1000	DATE: MAY 2023	

CITY PLAN No. 17803
CITY FILE No. D07-16-20-0015



NOTE: ICD
FOR ICD APPLICATION, REFER TO DETAILS
AND TABLE DRAWING (DWG.3) FOR
DETAIL

REVIEWED BY DEVELOPMENT REVIEW BRANCH

Signed: *[Signature]*

Date: June 7, 2024

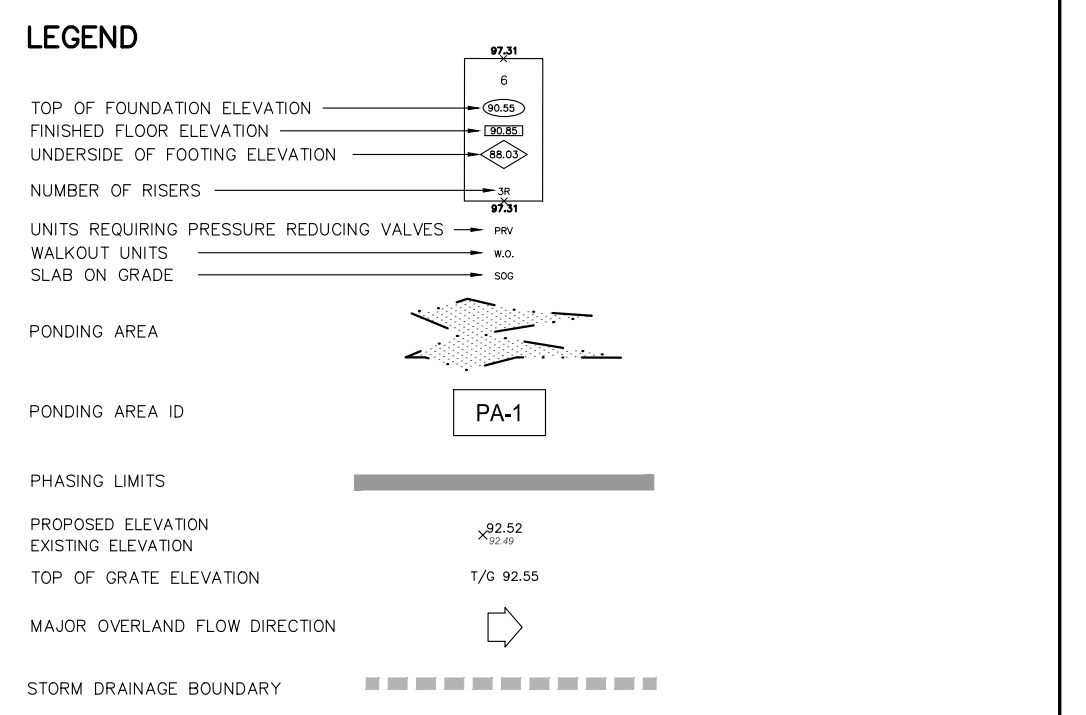
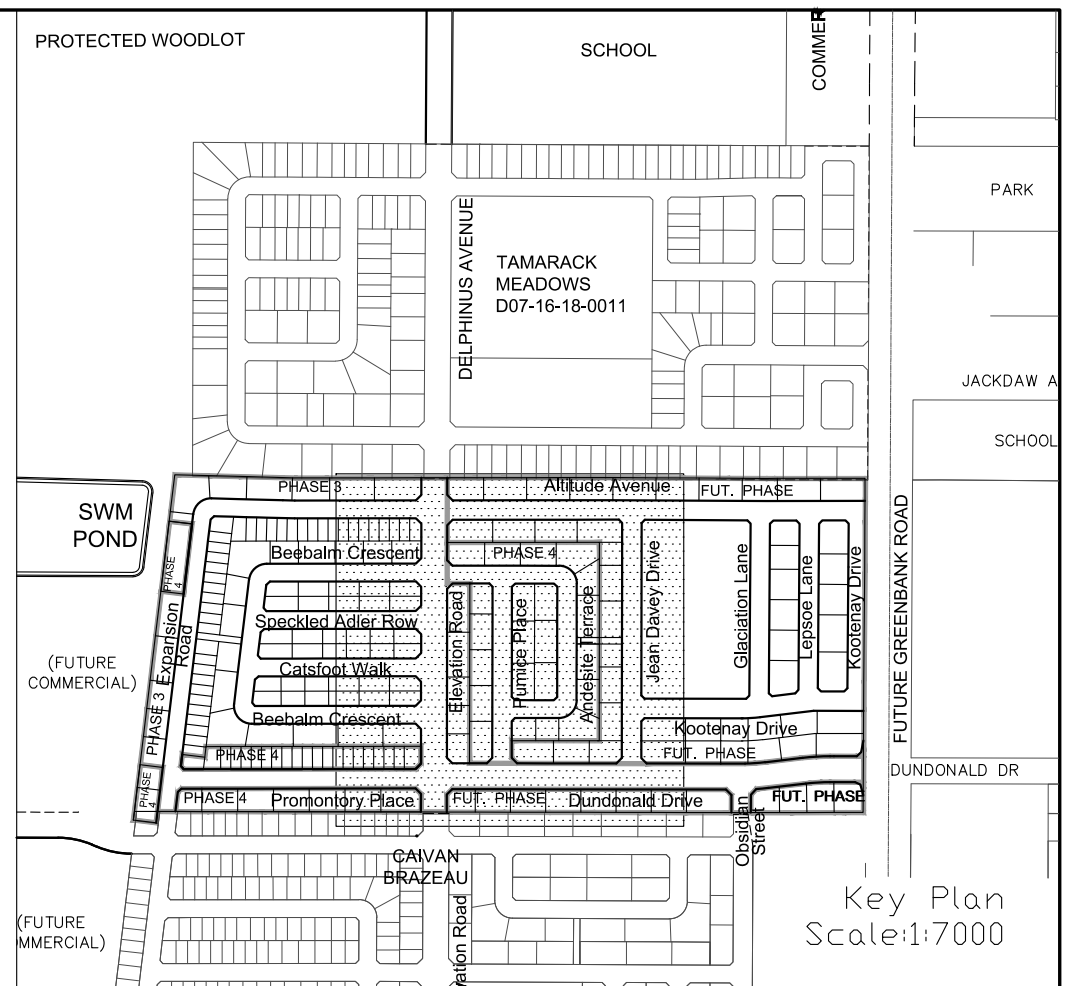
Plan Number: 17803

100 YR/STATIC STREET PONDING AREA TABLE
NOTE: PONDING VOLUMES FOR THE REAR YARDS ARE NOT TAKEN INTO ACCOUNT FOR STORAGE CAPACITY

AREA NUMBER	MAXIMUM STATIC PONDING DEPTH (m)	MAXIMUM STATIC PONDING ELEVATION (m)	MAXIMUM STATIC PONDING VOLUME (m ³)	MAXIMUM STATIC PONDING AREA (m ²)	LOWEST OPENING ELEVATION (m)
PA-1	0.15	101.02	3.2	71.98	101.30
PA-2	0.17	101.02	5.2	103.45	101.30
PA-3	0.06	102.56	0.4	22.95	102.89
PA-4	0.04	102.56	0.2	22.95	102.89
PA-5	0.21	102.78	23.1	366.99	102.95
PA-6	0.21	102.78	18.3	292.02	102.95
PA-7	0.05	102.78	0.1	7.74	103.23
PA-8	0.09	102.87	0.6	23.40	103.23
PA-13	0.11	104.06	0.7	22.30	104.43
PA-14	0.15	104.10	1.7	39.01	104.43
PA-15	0.13	104.11	1.9	51.11	104.44
PA-16	0.11	104.09	1.3	43.97	104.44
PA-21	0.11	104.17	1.4	43.24	104.47
PA-22	0.13	104.19	1.5	39.30	104.47
PA-23	0.07	102.81	0.2	13.64	103.22
PA-24	0.13	102.87	1.8	46.66	103.22
PA-25	0.04	102.79	0.0	7.28	103.23
PA-26	0.13	102.88	1.3	34.52	103.23
PA-27	0.13	105.30	2.7	69.56	105.67
PA-28	0.13	105.30	2.3	59.77	105.67
PA-29	0.17	103.41	4.8	95.84	103.65
PA-30	0.17	103.41	5.0	99.46	103.65
PA-31	0.13	103.77	1.6	42.07	104.05
PA-32	0.12	103.76	1.8	50.87	104.05
PA-37	0.15	101.03	5.1	113.46	101.33
PA-38	0.15	101.03	5.8	126.97	101.33
PA-39	0.13	102.66	4.1	103.63	101.23
PA-40	0.13	100.96	3.6	94.38	101.23
PA-41	0.17	100.87	8.2	161.47	101.06
PA-42	0.17	100.87	10.0	197.91	101.06
PA-43	0.13	100.35	1.9	50.35	100.67
PA-44	0.13	100.35	1.0	25.99	100.67
PA-45	0.16	100.58	7.9	166.23	100.83
PA-46	0.16	100.58	8.9	185.86	100.83
PA-47	0.14	100.72	4.6	111.52	100.99
PA-48	0.14	100.72	5.2	125.38	100.99

100 YR/STATIC REAR YARD PONDING AREA TABLE
NOTE: PONDING VOLUMES FOR THE REAR YARDS ARE NOT TAKEN INTO ACCOUNT FOR STORAGE CAPACITY

AREA NUMBER	MAXIMUM STATIC PONDING DEPTH (m)	MAXIMUM STATIC PONDING ELEVATION (m)	MAXIMUM STATIC PONDING VOLUME (m ³)	MAXIMUM STATIC PONDING AREA (m ²)
RPA-10	0.27	103.16	-	-
RPA-11	0.28	103.10	-	-
RPA-12	0.17	103.45	-	-
RPA-13	0.12	105.36	-	-
RPA-14	0.05	105.30	-	-
RPA-15	0.12	103.62	-	-
RPA-16	0.09	104.32	-	-
RPA-17	0.21	103.90	-	-
RPA-18	0.30	100.96	-	-
RPA-19	0.29	101.22	-	-
RPA-20	0.30	100.86	-	-
RPA-29	0.28	104.34	-	-
RPA-30	0.23	103.45	-	-
RPA-31	0.12	103.70	-	-
RPA-32	0.24	103.39	-	-
RPA-33	0.09	105.34	-	-
RPA-34	0.30	104.89	-	-
RPA-35	0.24	103.36	-	-
RPA-43	0.21	100.81	-	-



TOPOGRAPHIC INFORMATION
RIDEAU FRONT (JULY 10, 2019) AND BORRISOKANE ROAD (JULY 10, 2019)
PROVIDED BY STANTEC (PROJECT No. 18-10-145-00)

LEGAL INFORMATION
M-PLAN PROVIDED BY J.D. BARNES, PROJECT No. 19-10-074-00, DATED ON FEBRUARY 9, 2024.

ELEVATION NOTE
ELEVATIONS SHOWN HEREON ARE GEODETIC (CGVD-1928:1978) AND ARE DERIVED FROM THE CAN-NET VRS NETWORK MONUMENT: OTTAWA
ELEVATION = 95.205m

No.	BY	DATE	DESCRIPTION
5	W.L.	24-06-03	REVISED PER CITY COMMENTS
4	W.L.	24-05-17	REVISED PER CITY GRADING COMMENTS, CUP, AND GRDD
3	W.L.	24-04-12	ISSUED FOR CONSTRUCTION
2	W.L.	24-03-21	2nd SUBMISSION
1	W.L.	24-01-19	1st SUBMISSION

CITY OF OTTAWA

PROJECT No. 19-1123

DSEI
LICENSED PROFESSIONAL ENGINEER
W. LIU
100167932
PROVINCE OF ONTARIO

100 YEAR STATIC PONDING AREA AND ICD PLAN

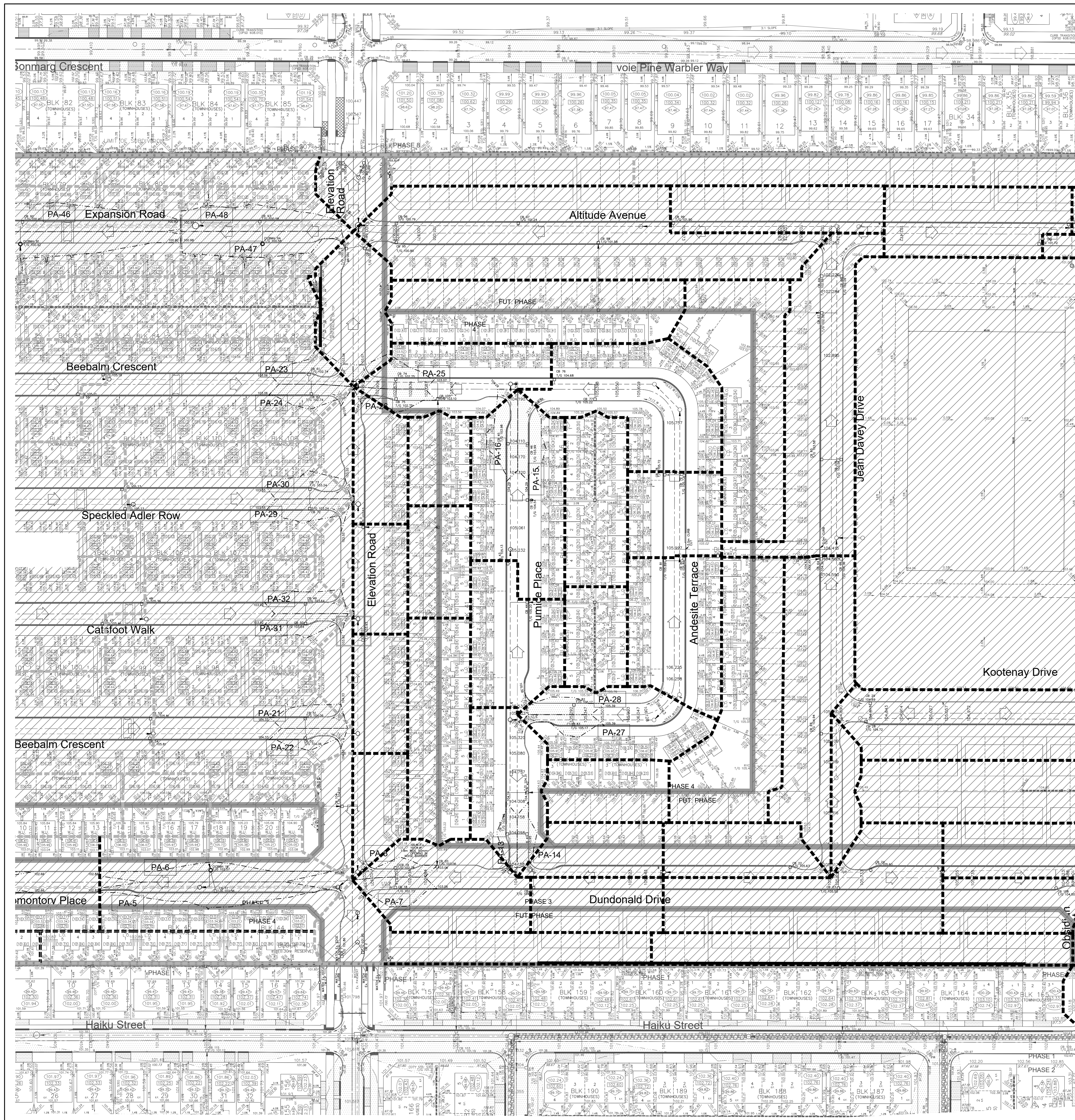
CAIVAN COMMUNITIES THE RIDGE PHASE 4

DSEL
120 Iber Road, Unit 103
Simsbury, ON K2S 1E9
Tel. (613) 836-0856
Fax. (613) 836-7183
www.DSEL.ca

DRAWN BY: V.W. CHECKED BY: W.L. SHEET NO.
DESIGNED BY: W.L. CHECKED BY: C.M.
SCALE: 1:750 DATE: MAY 2023

22

CITY PLAN No. 17803
CITY FILE No. D07-16-20-0015



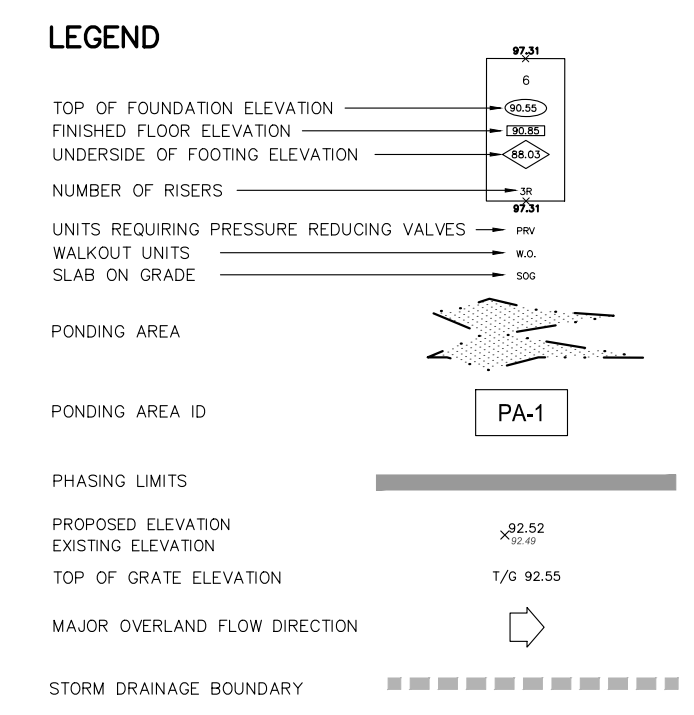
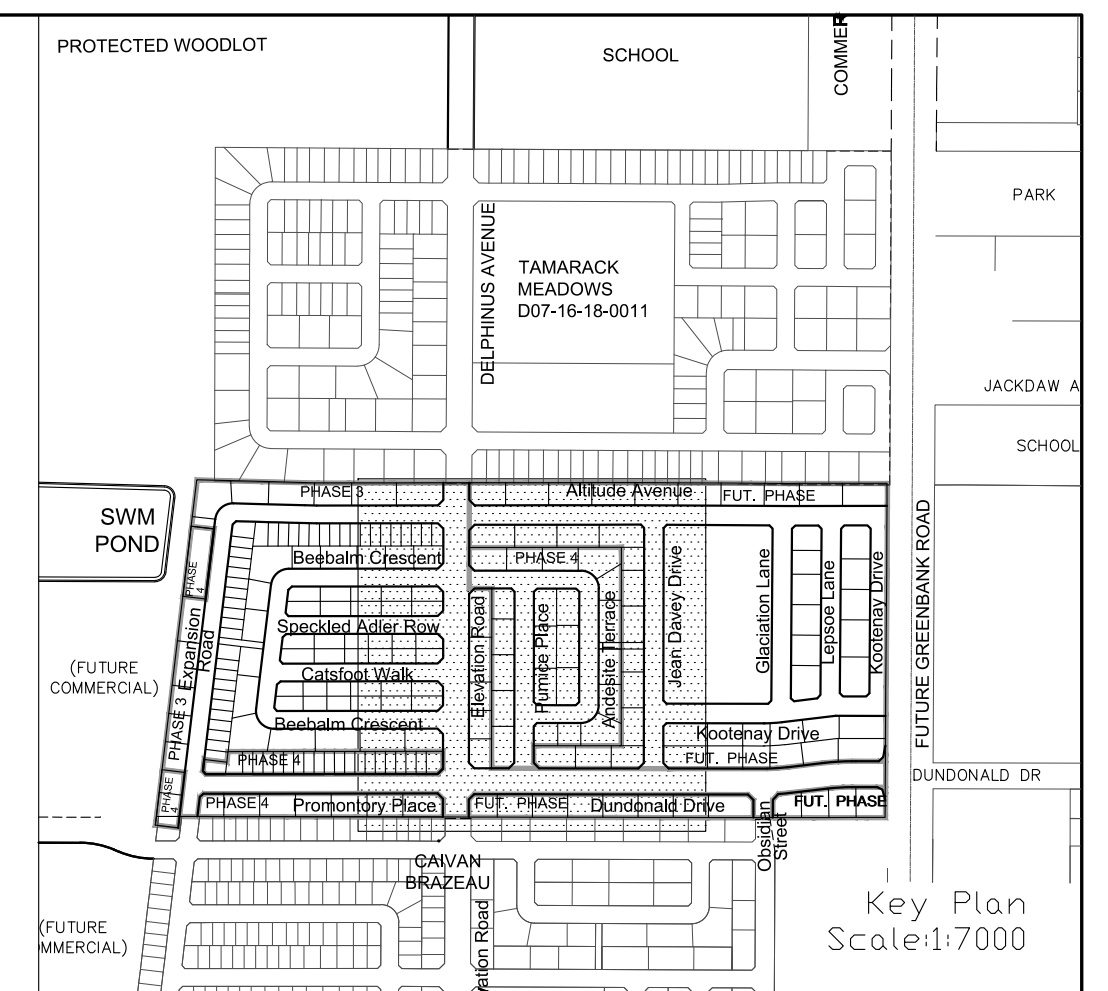
NOTE: ICD
 FOR ICD APPLICATION, REFER TO DETAILS
 AND TABLE DRAWING (DWG.3) FOR
 DETAIL.

REVIEWED BY DEVELOPMENT REVIEW BRANCH
 Signed *[Signature]*
 Date June 7, 2024
 Plan Number 17803

100 YR/STATIC STREET PONDING AREA TABLE

NOTE: PONDING VOLUMES FOR THE REAR YARDS ARE NOT TAKEN INTO ACCOUNT FOR STORAGE CAPACITY

AREA NUMBER	MAXIMUM STATIC PONDING DEPTH (m)	MAXIMUM STATIC PONDING ELEVATION (m)	MAXIMUM 100YR + 20% PONDING DEPTH (m)	MAXIMUM 100YR + 20% PONDING ELEVATION (m)
PA-1	0.15	101.02	0.32	101.19
PA-2	0.17	101.02	0.34	101.19
PA-3	0.06	102.56	0.16	102.66
PA-4	0.04	102.56	0.14	102.66
PA-5	0.21	102.78	0.25	102.82
PA-6	0.21	102.78	0.25	102.82
PA-7	0.05	102.78	0.33	103.06
PA-8	0.09	102.87	0.28	103.06
PA-13	0.11	104.06	0.24	104.19
PA-14	0.15	104.10	0.24	104.19
PA-15	0.13	104.11	0.31	104.29
PA-16	0.11	104.09	0.31	104.29
PA-21	0.11	104.17	0.28	104.34
PA-22	0.13	104.19	0.28	104.34
PA-23	0.07	102.81	0.32	103.06
PA-24	0.13	102.87	0.32	103.06
PA-25	0.04	102.79	0.32	103.07
PA-26	0.13	102.88	0.32	103.07
PA-27	0.13	105.30	0.22	105.39
PA-28	0.13	105.30	0.22	105.39
PA-29	0.17	103.41	0.31	103.55
PA-30	0.17	103.41	0.31	103.55
PA-31	0.13	103.77	0.30	103.94
PA-32	0.12	103.76	0.30	103.94
PA-37	0.15	101.03	0.18	101.21
PA-38	0.15	101.03	0.18	101.21
PA-39	0.13	100.96	0.31	101.14
PA-40	0.13	100.96	0.31	101.14
PA-41	0.17	100.87	0.32	101.02
PA-42	0.17	100.87	0.32	101.02
PA-43	0.13	100.35	0.13	100.35
PA-44	0.13	100.35	0.13	100.35
PA-45	0.16	100.58	0.39	100.81
PA-46	0.16	100.58	0.39	100.81
PA-47	0.14	100.72	0.36	100.94
PA-48	0.14	100.72	0.36	100.94



TOPOGRAPHIC INFORMATION
 RIDEAU FRONT (JULY 10, 2019) AND BORRISOKANE ROAD (JULY 10, 2019)
 PROVIDED BY STANTEC (PROJECT No. 18-10-145-00)

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1	W.L.	24-01-19	1st SUBMISSION

CITY OF OTTAWA

PROJECT No. 19-1123

100 YEAR + 20% PONDING AREA AND ICD PLAN

CAIVAN COMMUNITIES **THE RIDGE PHASE 4**

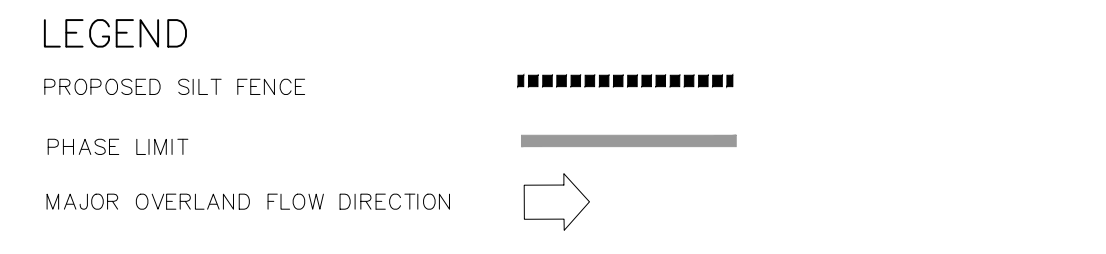
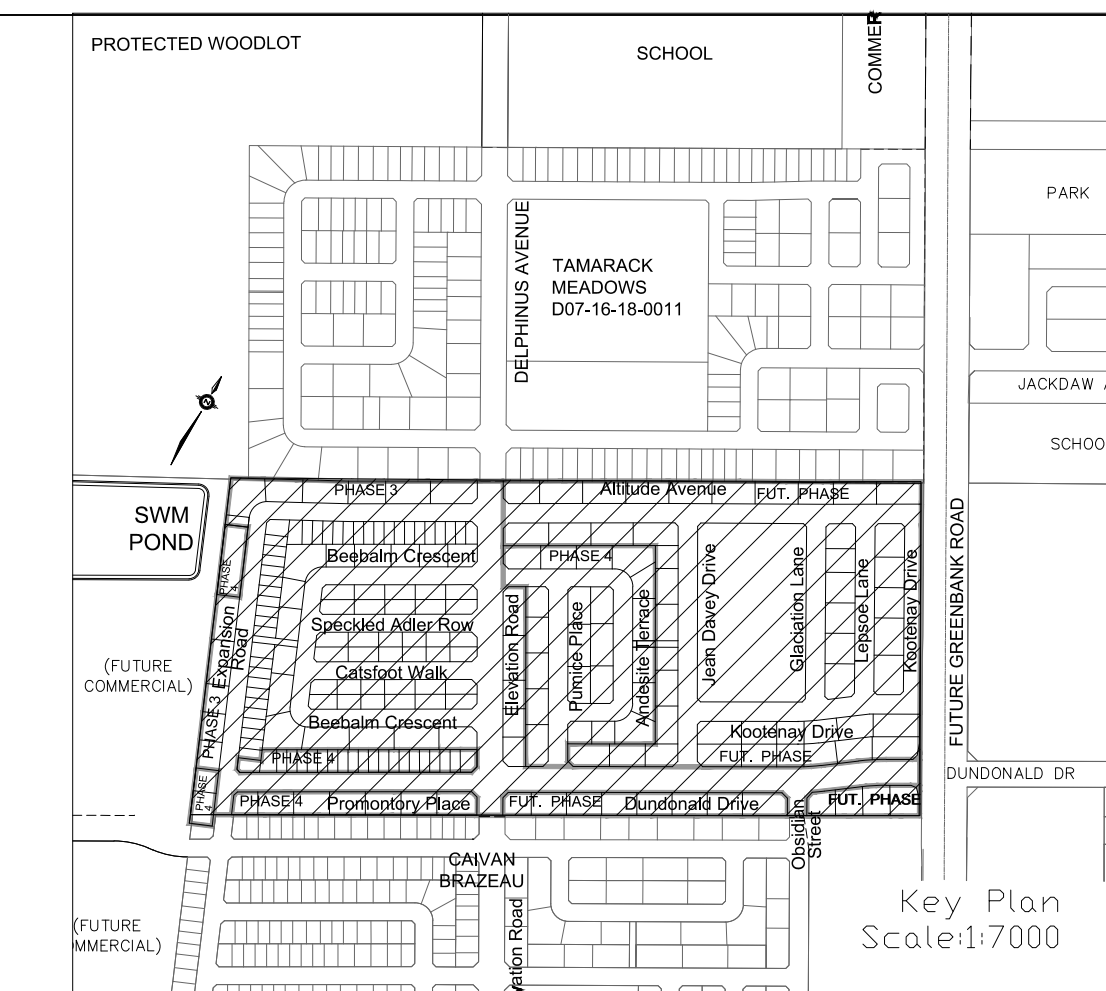
120 Iber Road, Unit 103
 Sittsville, ON K2S 1E9
 Tel. (613) 836-0856
 Fax. (613) 836-7183
 www.DSEL.ca

DRAWN BY: V.W.	CHECKED BY: W.L.	SHEET NO.
DESIGNED BY: W.L.	CHECKED BY: C.M.	23
SCALE: 1:750	DATE: MAY 2023	

CITY PLAN No. 17803

REVIEWED BY DEVELOPMENT REVIEW BRANCH

Signed [Signature]
 Date June 7, 2024
 Plan Number 17803



- SEQUENCE OF ACTIVITIES**
- THE EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE:
- INSTALLATION OF THE SEDIMENT CONTROL FENCING WHERE INDICATED.
 - REMOVAL OF SITE VEGETATION IN ACCORDANCE WITH ALL APPLICABLE BY-LAWS.
 - CONSTRUCTION OF THE EROSION AND SEDIMENT CONTROL POND IN ACCORDANCE WITH THE DESIGN DRAWINGS.
 - REGULAR MONITORING OF THE SEDIMENT CONTROL FENCES BY THE CONTRACTOR TO VERIFY THAT THE FENCES ARE FUNCTIONING AS INTENDED.
 - REGULAR MONITORING OF THE SEDIMENT BASIN TO VERIFY THAT THE BASIN IS FUNCTIONING AS INTENDED.
 - REMOVAL OF THE EROSION AND SEDIMENT CONTROL DEVICES ONCE THE SITE HAS BEEN STABILIZED.

TOPOGRAPHIC INFORMATION
 RIDEAU FRONT (JULY 10, 2019) AND BORRISOKANE ROAD (JULY 10, 2019)
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Ottawa CITY OF OTTAWA

PROJECT No. 19-1123

W. LIU
 100167932
 LICENSED PROFESSIONAL ENGINEER
 CIVIL
 PROVINCE OF ONTARIO

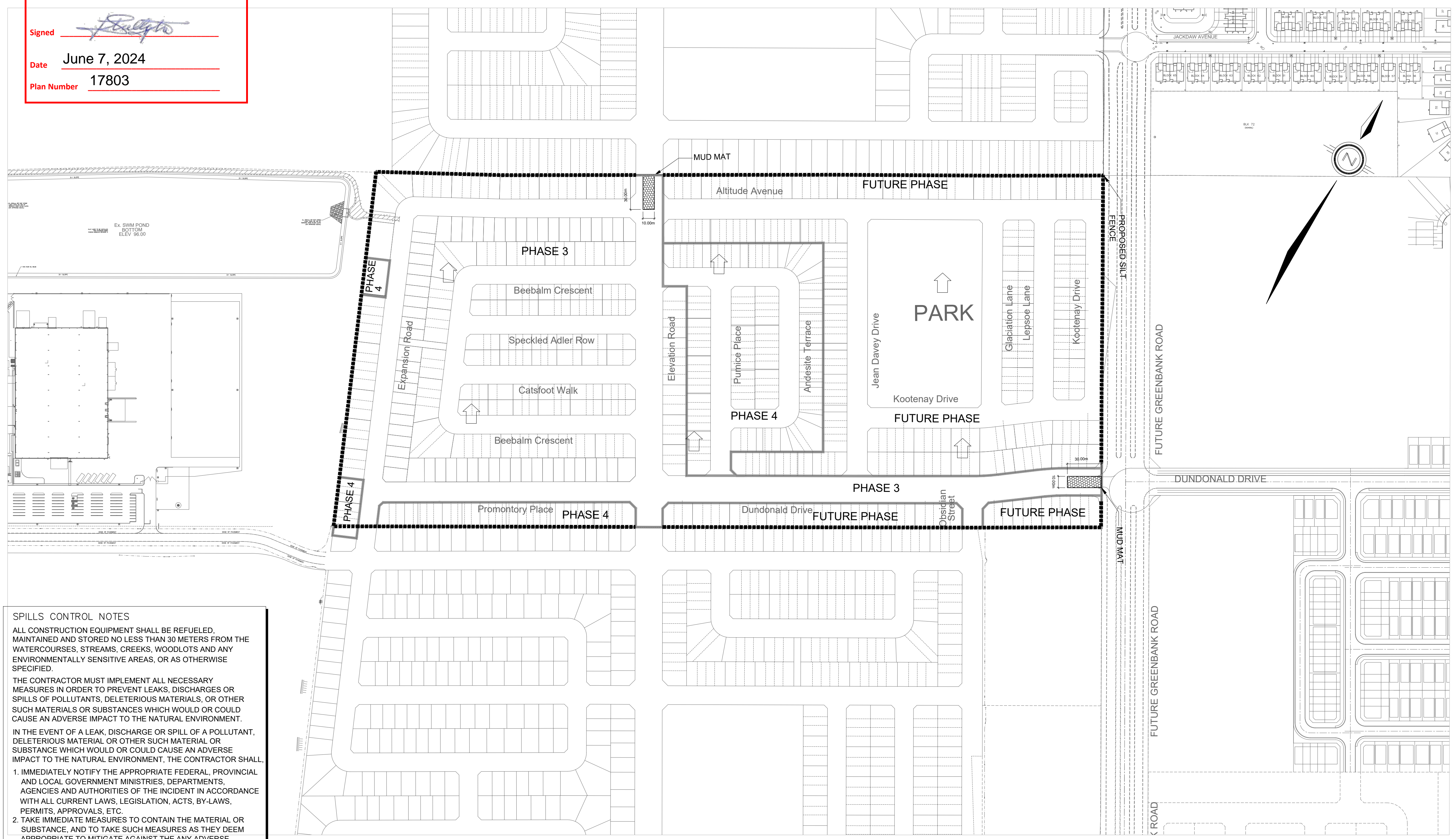
EROSION AND SEDIMENT CONTROL PLAN STAGE 1

CAIVAN COMMUNITIES THE RIDGE PHASE 4

DSEL

120 Iber Road, Unit 103
 Sittsville, ON K2S 1E9
 Tel. (613) 836-0856
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DRAWN BY: V.W.	CHECKED BY: W.L.	SHEET NO.
DESIGNED BY: W.L.	CHECKED BY: C.M.	24
SCALE: 1:1000	DATE: MAY 2023	



SPILLS CONTROL NOTES

ALL CONSTRUCTION EQUIPMENT SHALL BE REFUELED, MAINTAINED AND STORED NO LESS THAN 30 METERS FROM THE WATERCOURSES, STREAMS, CREEKS, WOODLOTS AND ANY ENVIRONMENTALLY SENSITIVE AREAS, OR AS OTHERWISE SPECIFIED.

THE CONTRACTOR MUST IMPLEMENT ALL NECESSARY MEASURES IN ORDER TO PREVENT LEAKS, DISCHARGES OR SPILLS OF POLLUTANTS, DELETERIOUS MATERIALS, OR OTHER SUCH MATERIALS OR SUBSTANCES WHICH WOULD OR COULD CAUSE AN ADVERSE IMPACT TO THE NATURAL ENVIRONMENT.

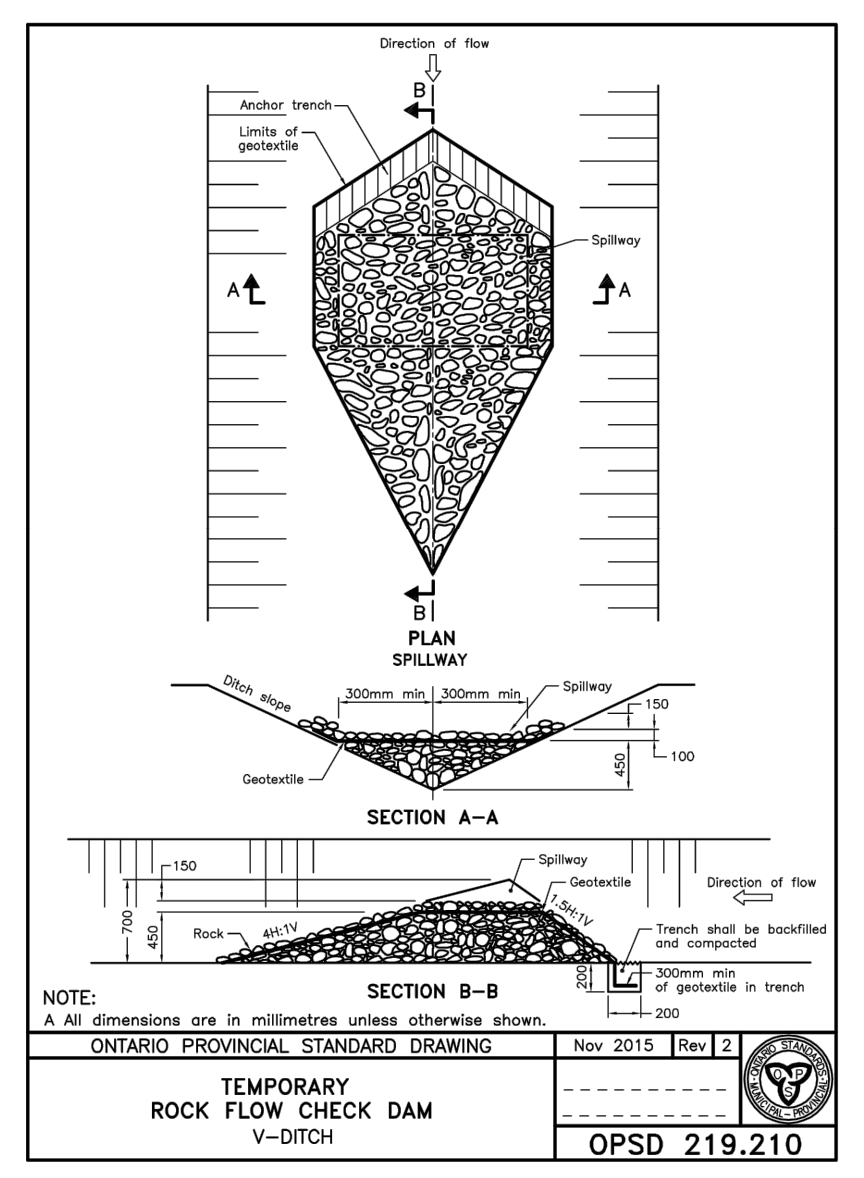
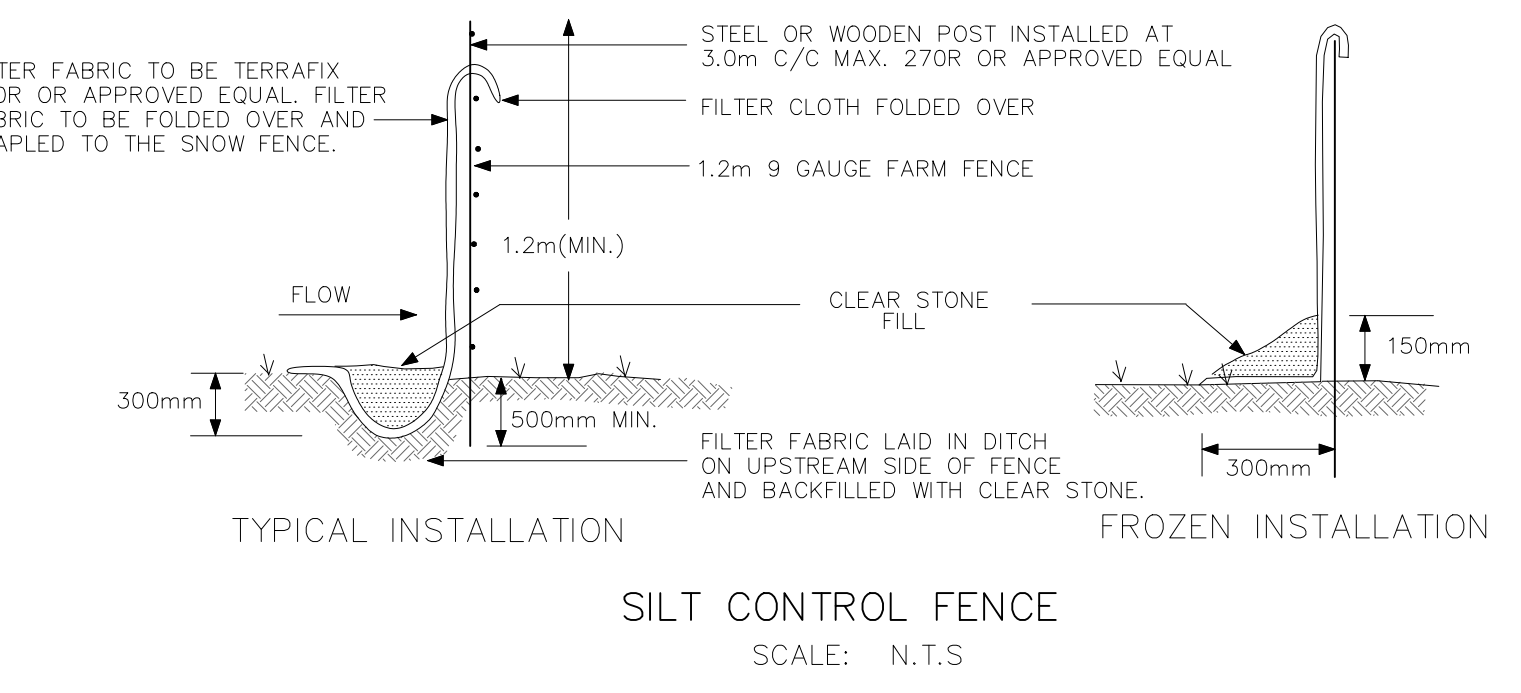
IN THE EVENT OF A LEAK, DISCHARGE OR SPILL OF A POLLUTANT, DELETERIOUS MATERIAL OR OTHER SUCH MATERIAL OR SUBSTANCE WHICH WOULD OR COULD CAUSE AN ADVERSE IMPACT TO THE NATURAL ENVIRONMENT, THE CONTRACTOR SHALL:

1. IMMEDIATELY NOTIFY THE APPROPRIATE FEDERAL, PROVINCIAL AND LOCAL GOVERNMENT MINISTRIES, DEPARTMENTS, AGENCIES AND AUTHORITIES OF THE INCIDENT IN ACCORDANCE WITH ALL CURRENT LAWS, LEGISLATION, ACTS, BY-LAWS, PERMITS, APPROVALS, ETC.
2. TAKE IMMEDIATE MEASURES TO CONTAIN THE MATERIAL OR SUBSTANCE, AND TO TAKE SUCH MEASURES AS THEY DEEM APPROPRIATE TO MITIGATE AGAINST THE ANY ADVERSE IMPACTS TO THE NATURAL ENVIRONMENT.
3. THE CONTRACT SHALL RESTORE THE AFFECTED AREA TO ORIGINAL CONDITION OR BETTER, ALL TO THE SATISFACTION OF THE AUTHORITIES HAVING JURISDICTION.

MONITORING OF SEDIMENT AND EROSION CONTROLS
 MONITORING AND REPORTING TO BE COMPLETED IN ACCORDANCE WITH THE MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS (MECP) AND RIDEAU VALLEY CONSERVATION AUTHORITY (RVCA) APPROVALS.

MAINTENANCE PROGRAM
 ALL DAMAGED ESC MEASURES SHOULD BE REPAIRED AND/OR REPLACEMENT WITHIN 48 HOURS OF THE INSPECTION.
 THE ENVIRONMENTAL MONITOR IS REQUIRED TO SUBMIT UPDATES TO THE TOWN/ REGION/ CONSERVATION AUTHORITY BY EMAIL IN A TIMELY MANNER.
 SEDIMENT SHOULD BE REMOVED FROM THE SEDIMENT CONTROL FENCING ONCE SEDIMENT HAS ACCUMULATED TO A LEVEL OF ONE-THIRD THE HEIGHT OF FENCING OR TO A HEIGHT OF 30 cm. ANY AMOUNT OF ACCUMULATED SEDIMENT SHOULD BE REMOVED PRIOR TO THE REMOVAL OF THE CONTROL MEASURES.

THE SILTATION CONTROL PLAN IS INTENDED TO ASSIST THE CONTRACTOR IN THE LAYOUT AND CONSTRUCTION OF THE SILTATION CONTROL FEATURES ONLY. THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION OF SITE SERVICES.



EROSION AND SEDIMENT CONTROL NOTES:

PRIOR TO TOPSOIL STRIPPING, EARTHWORKS, OR UNDERGROUND CONSTRUCTION, EROSION AND SEDIMENT CONTROLS SHALL BE IMPLEMENTED TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.

SEDIMENT CONTROL FENCE SHALL BE CLEANED AND MAINTAINED IN GOOD REPAIR BY CONTRACTOR.

SEDIMENT CONTROL FENCE TO REMAIN IN PLACE UNTIL THE WORKING AREA HAS BEEN STABILIZED AND REVEGETATED.

ACCUMULATED SEDIMENT TO BE REMOVED OFF SITE PRIOR TO THE REMOVAL OF SEDIMENT CONTROL FENCE.

EROSION AND SEDIMENT CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY OF OTTAWA SITE INSPECTOR OR CONSERVATION AUTHORITY PERSONNEL.

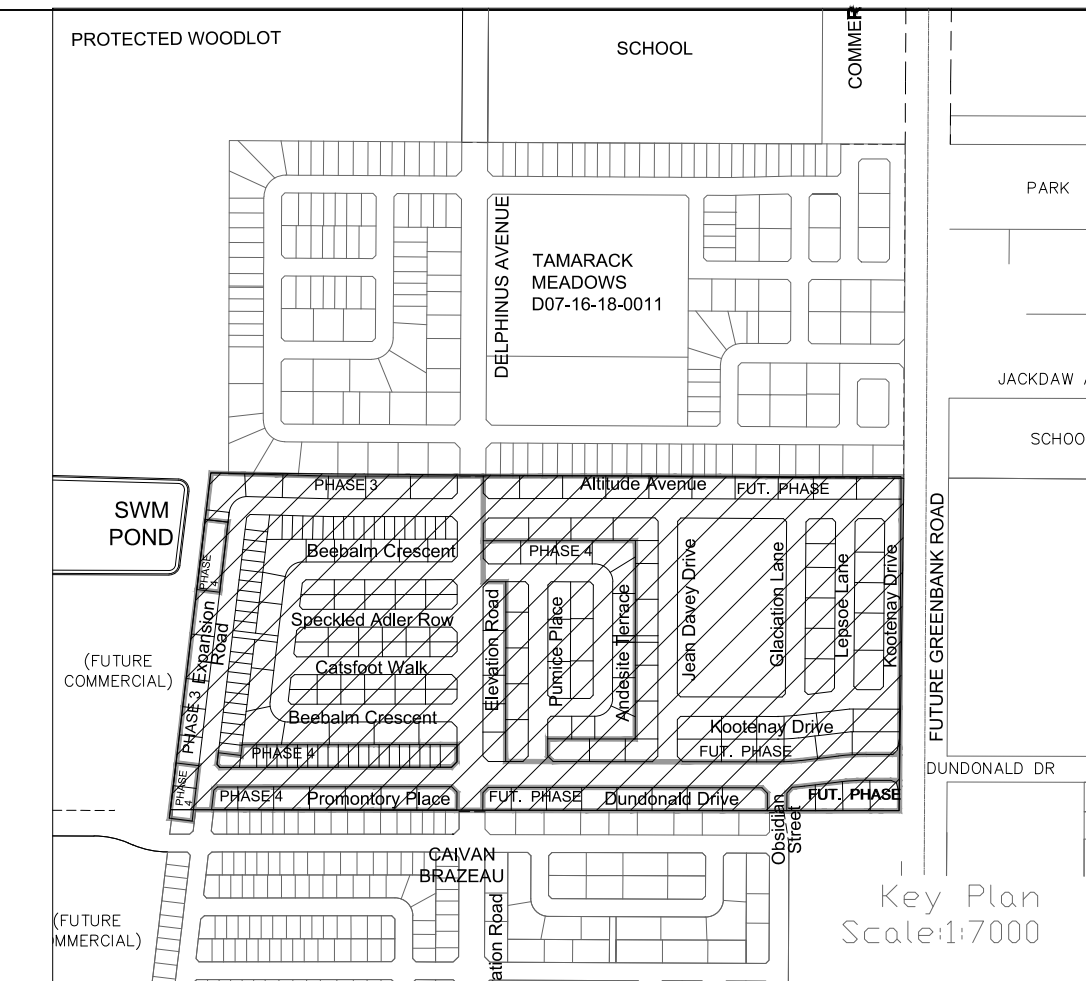
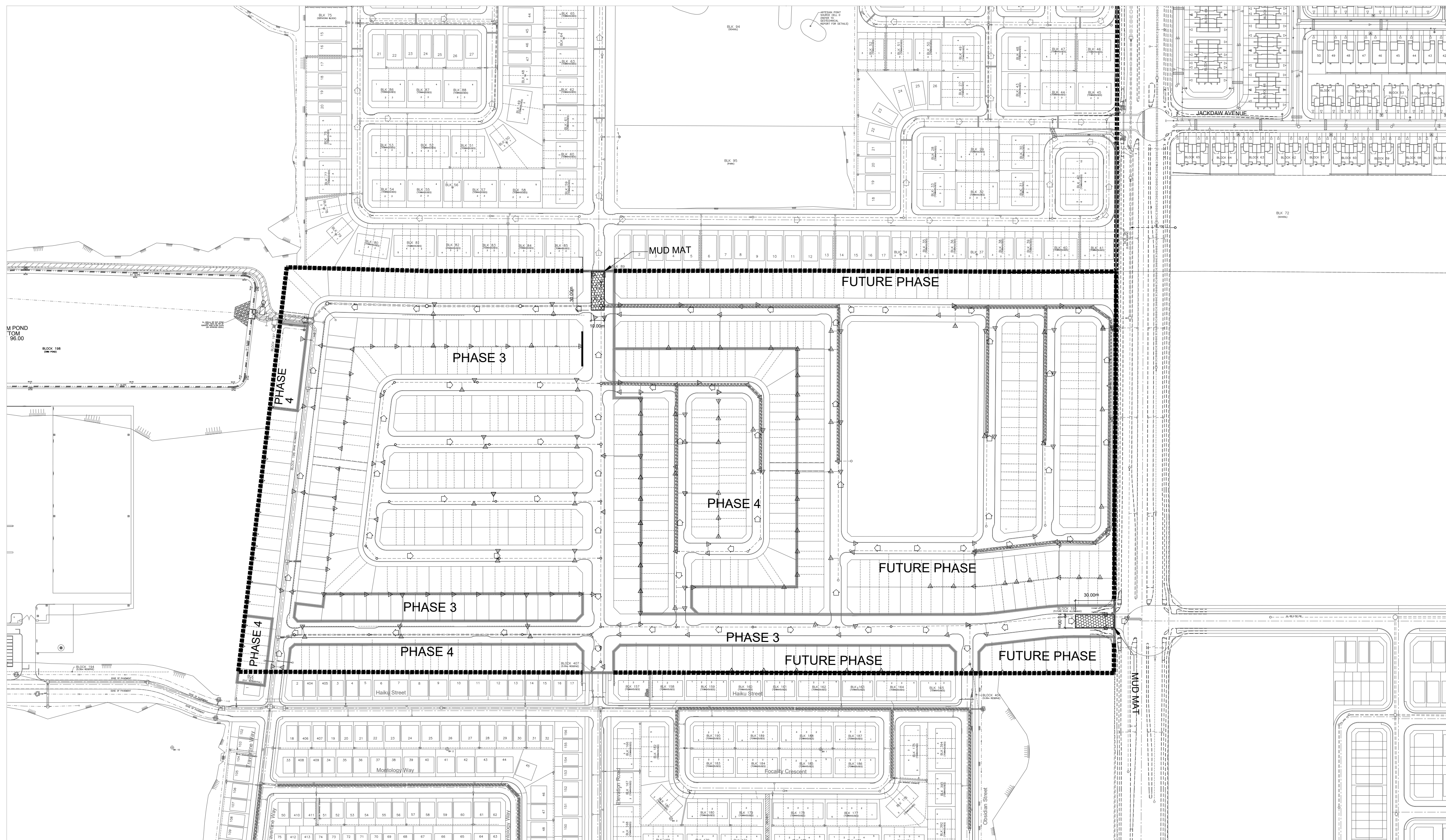
CONTRACTOR MUST USE BEST MANAGEMENT PRACTICES (BMPs) FOR EROSION AND SEDIMENT CONTROL.

IN ADDITION TO WEEKLY INSPECTIONS, ESC MEASURES TO BE INSPECTED AFTER SIGNIFICANT STORM EVENTS (MEANS A MINIMUM OF 25mm OF RAIN IN ANY 24 HOURS PERIOD) AND SIGNIFICANT SNOWMELT EVENTS, AND AFTER ANY EXTREME WEATHER EVENTS.

IDENTIFY AND RECTIFY ANY DEFICIENCIES AND UNDERTAKE NECESSARY MAINTENANCE MEASURES AS SOON AS POSSIBLE.

INSPECTIONS AND MAINTENANCE OF TEMPORARY ESC MEASURES SHALL CONTINUE UNTIL THEY ARE NO LONGER REQUIRED.

THE CONTRACTOR SHALL ENSURE THAT RECORDS OF INSPECTION, INCLUDING AT A MINIMUM, THE INSPECTOR'S NAME, DATE OF INSPECTION, VISUAL OBSERVATIONS, AND ANY NECESSARY REMEDIAL MEASURES TO MAINTAIN THE INTERIM ESC MEASURES.



- LEGEND**
- PROPOSED SILT FENCE
 - PHASE LIMIT
 - MAJOR OVERLAND FLOW DIRECTION
 - FILTER CLOTH FOR EXISTING STRUCTURE
 - UPSTREAM AND DOWNSTREAM PLUG FOR EES TRENCH INSTALLED DURING CONSTRUCTION

REVIEWED BY DEVELOPMENT REVIEW BRANCH
 Signed
 Date **June 7, 2024**
 Plan Number **17803**

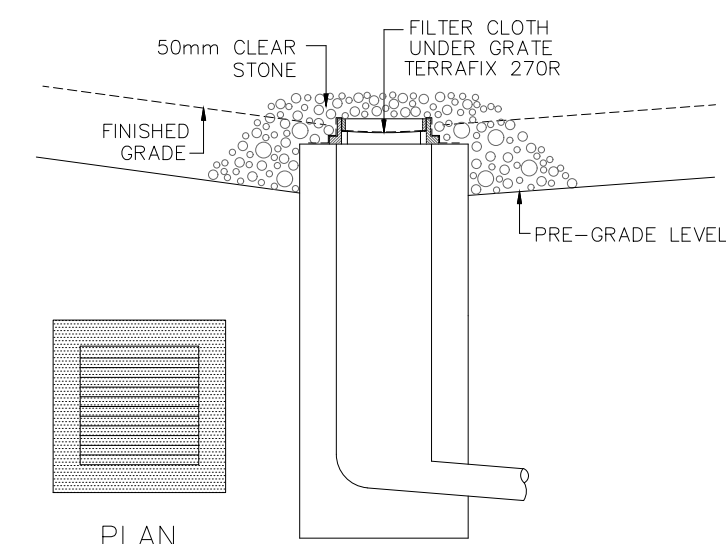
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ELEVATION NOTE
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 ELEVATION = 95.205m

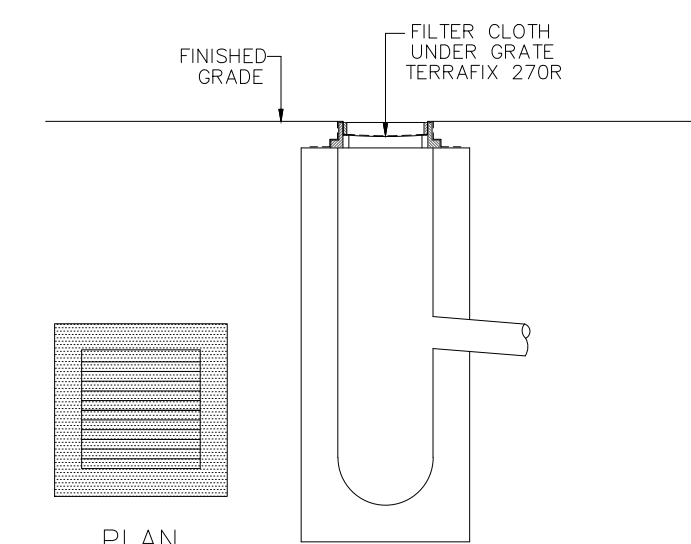
No.	BY	DATE	DESCRIPTION
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EROSION AND SEDIMENT CONTROL NOTES:

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- SEDIMENT CONTROL FENCE TO REMAIN IN PLACE UNTIL THE WORKING AREA HAS BEEN STABILIZED AND REVEGETATED.
- ACCUMULATED SEDIMENT TO BE REMOVED OFF SITE PRIOR TO THE REMOVAL OF SEDIMENT CONTROL FENCE.
- EROSION AND SEDIMENT CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY OF OTTAWA SITE INSPECTOR OR CONSERVATION AUTHORITY PERSONNEL.
- CONTRACTOR MUST USE BEST MANAGEMENT PRACTICES (BMPs) FOR EROSION AND SEDIMENT CONTROL.
- IN ADDITION TO WEEKLY INSPECTIONS, ESC MEASURES TO BE INSPECTED AFTER SIGNIFICANT STORM EVENTS (MEANS A MINIMUM OF 25mm OF RAIN IN ANY 24 HOURS PERIOD) AND SIGNIFICANT SNOWMELT EVENTS, AND AFTER ANY EXTREME WEATHER EVENTS.
- IDENTIFY AND RECTIFY ANY DEFICIENCIES AND UNDERTAKE NECESSARY MAINTENANCE MEASURES AS SOON AS POSSIBLE.
- INSPECTIONS AND MAINTENANCE OF TEMPORARY ESC MEASURES SHALL CONTINUE UNTIL THEY ARE NO LONGER REQUIRED.
- THE CONTRACTOR SHALL ENSURE THAT RECORDS OF INSPECTION, INCLUDING AT A MINIMUM, THE INSPECTOR'S NAME, DATE OF INSPECTION, VISUAL OBSERVATIONS, AND ANY NECESSARY REMEDIAL MEASURES TO MAINTAIN THE INTERIM ESC MEASURES.



DETAIL FOR RL/CB/DICB SILT PROTECTION
 SCALE: NTS



DETAIL FOR STREET CB SILT PROTECTION
 SCALE: NTS

LOW IMPACT DEVELOPMENT PROTECTION:

- PRIOR TO SITE WORKS, LOCATIONS OF THE LIDS SHOULD BE MARKED AND VEHICLES TO AVOID THIS AREA OTHER THAN DURING THE INSTALLATION OF THE LID DRAINAGE NOT BE DIRECTED TO THE LID.
- PRIOR TO THE COMPLETION OF LANDSCAPE WORKS, CATCH BASINS NOT CONNECTED TO THE LID PRACTICES CAN BE USED DURING CONSTRUCTION FOR DRAINAGE.
- HEAVY EQUIPMENT AND TRAFFIC SHOULD AVOID TRAVELLING OVER THE PROPOSED LOCATION OF THE FACILITY TO MINIMIZE THE COMPACTION OF THE SOIL.
- TO MINIMIZE SILTATION DURING CONSTRUCTION, THE EES UNITS SHOULD BE CONSTRUCTED WITH UPSTREAM AND DOWNSTREAM PLUGS. DURING CONSTRUCTION, THESE PLUGS WILL BE INSTALLED TO PREVENT SEDIMENTS FROM ENTERING THE UNITS. ONCE AN OCCUPANCY OF 80% IS ACHIEVED, THE UPSTREAM PLUG WILL THEN BE REMOVED AND THE EES UNITS ALLOWED TO OPERATE AS INTENDED.
- FACILITIES SHOULD BE KEPT "OFF-LINE" UNTIL CONSTRUCTION IS COMPLETE. THEY SHOULD NEVER SERVE AS A SEDIMENT CONTROL DEVICE DURING SITE CONSTRUCTION. SEDIMENT SHOULD BE PREVENTED FROM ENTERING THE INFILTRATION FACILITY USING A SUPER SILT FENCE, DIVERSION BERMS OR OTHER MEANS.
- UPLAND DRAINAGE AREAS NEED TO BE PROPERLY STABILIZED WITH A THICK LAYER OF VEGETATION, PARTICULARLY IMMEDIATELY FOLLOWING CONSTRUCTION, TO REDUCE SEDIMENT LOADS.

MONITORING OF SEDIMENT AND EROSION CONTROLS
 MONITORING AND REPORTING TO BE COMPLETED IN ACCORDANCE WITH THE MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS (MECP) AND RIDEAU VALLEY CONSERVATION AUTHORITY (RVCA) APPROVALS.
MAINTENANCE PROGRAM
 ALL DAMAGED ESC MEASURES SHOULD BE REPAIRED AND/OR REPLACEMENT WITHIN 48 HOURS OF THE INSPECTION.
 THE ENVIRONMENTAL MONITOR IS REQUIRED TO SUBMIT UPDATES TO THE TOWN/ REGION/ CONSERVATION AUTHORITY BY EMAIL IN A TIMELY MANNER.
 SEDIMENT SHOULD BE REMOVED FROM THE SEDIMENT CONTROL FENCING ONCE SEDIMENT HAS ACCUMULATED TO A LEVEL OF ONE-THIRD THE HEIGHT OF FENCING OR TO A HEIGHT OF 30 cm. ANY AMOUNT OF ACCUMULATED SEDIMENT SHOULD BE REMOVED PRIOR TO THE REMOVAL OF THE CONTROL MEASURES.

THE SILTATION CONTROL PLAN IS INTENDED TO ASSIST THE CONTRACTOR IN THE LAYOUT AND CONSTRUCTION OF THE SILTATION CONTROL FEATURES ONLY. THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION OF SITE SERVICES.

PROJECT No. 19-1123

EROSION AND SEDIMENT CONTROL PLAN STAGE 2

CAIVAN COMMUNITIES THE RIDGE PHASE 4

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SCALE: 1:1000	DATE: MAY 2023	

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