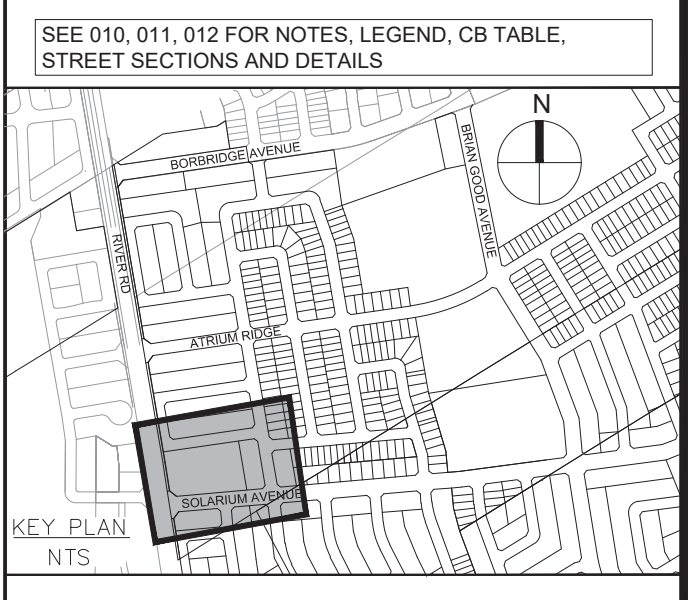
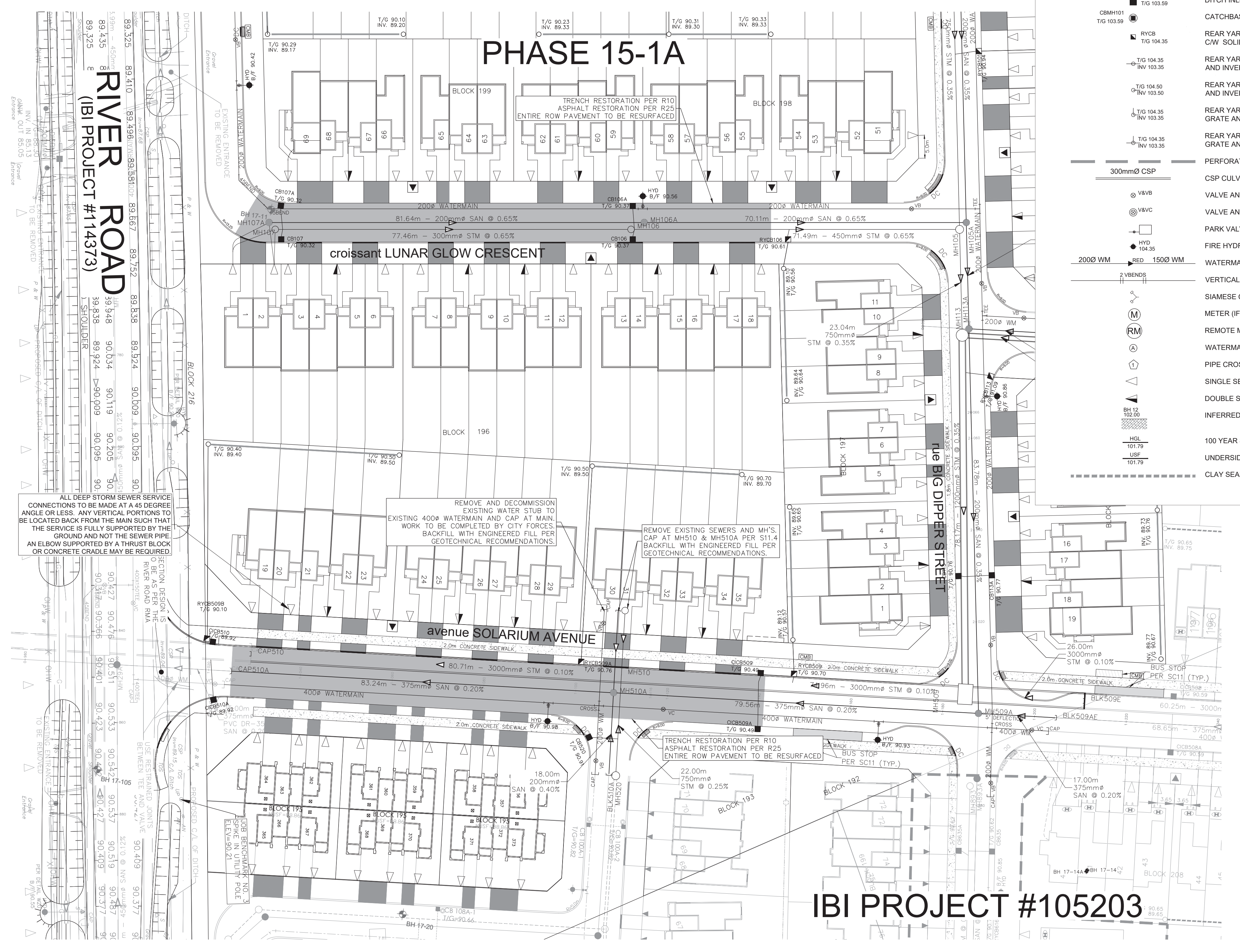


APPROVED
By Lily Xu at 2:20 pm, Nov 09, 2023

[Signature]
LILY XU, MCIP, RPP
MANAGER, DEVELOPMENT REVIEW SOUTH
PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

SERVICING LEGEND

- MH118A SANITARY MANHOLE
- 200mm Ø SAN SANITARY SEWER
- MH109 □ MH118 STORM MANHOLE
- 825mm Ø STM STORM SEWER - LESS THAN 900Ø
- 900mm Ø STM STORM SEWER - 900Ø AND GREATER
- 200Ø WATERMAIN WATERMAIN
- CB100 STREET CATCHBASIN C/W TOP OF GRATE
- CIB101 CURB INLET CATCHBASIN C/W GUTTER GRADE
- GG 104.25 ■ DCB100 TIG 104.10 DOUBLE CATCHBASIN C/W TOP OF GRATE
- DCIB101 TIG 104.10 DOUBLE CURB INLET CATCHBASIN C/W GUTTER GRADE
- GG 104.25 ■ DI101 TIG 103.59 DITCH INLET MANHOLE C/W TOP OF GRATE
- CBM101 TIG 103.59 CATCHBASIN MANHOLE C/W TOP OF GRATE
- RYCB TIG 104.35 REAR YARD CATCHBASIN IN ROAD CONNECTING STRUCTURE C/W SOLID GRATE
- TIG 104.35 ■ INV 103.35 REAR YARD "TEE" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT
- TIG 104.50 ■ INV 103.50 REAR YARD "END" CATCHBASIN (300Ø) C/W TOP OF GRATE AND INVERT OUT
- TIG 104.35 ■ INV 103.35 REAR YARD "CUSTOM ANGLED" CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT
- TIG 104.35 ■ INV 103.35 REAR YARD "THREE WAY" CATCHBASIN (450Ø) C/W TOP OF GRATE AND INVERT OUT
- 300mm Ø CSP PERFORATED REAR YARD SUBDRAIN
- V&VB CSP CULVERT C/W DIAMETER
- V&VC VALVE AND VALVE BOX
- V&V VALVE AND VALVE CHAMBER
- P&V PARK VALVE CHAMBER C/W SERVICE POST
- F&V FIRE HYDRANT C/W BOTTOM OF FLANGE ELEVATION
- W&R WATERMAIN REDUCER
- V&BENDS VERTICAL BEND LOCATION
- S&C SIAMESE CONNECTION (IF REQUIRED)
- M&M METER (IF REQUIRED)
- R&M REMOTE METER (IF REQUIRED)
- W&I WATERMAIN IDENTIFICATION (IF REQUIRED)
- P&C PIPE CROSSING IDENTIFICATION (IF REQUIRED)
- S&S SINGLE SERVICE LOCATION
- D&S DOUBLE SERVICE LOCATION
- I&R INFERRED REFUSAL (SEE GEOTECHNICAL REPORT)
- H&G 100 YEAR STORM HYDRAULIC GRADE LINE AT MANHOLE
- U&F UNDERSIDE OF FOOTING ELEVATION
- C&S CLAY SEAL IN SEWER / WATERMAIN TRENCH

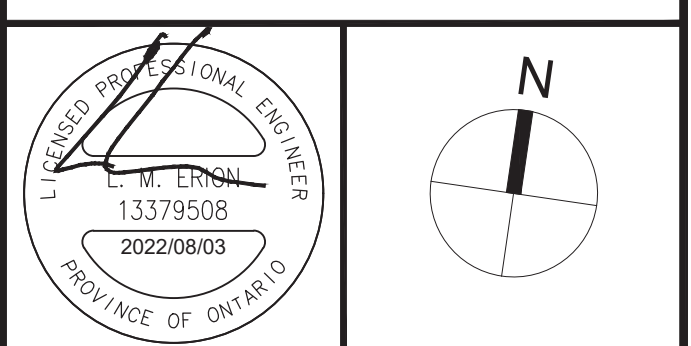


No.	REVISIONS	By	Date
14			
13			
12			
11			
10			
9			
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3			
2	REVISED PER CITY COMMENTS	L.M.E.	2022-08-03
1	SUBMISSION 1 FOR CITY REVIEW	L.M.E.	2022-07-21



IBI GROUP
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Ottawa ON K1S 5N4 Canada
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ibigroup.com

Project Title
910 SOLARIUM



Drawing Title
**GENERAL PLAN
OF SERVICES**

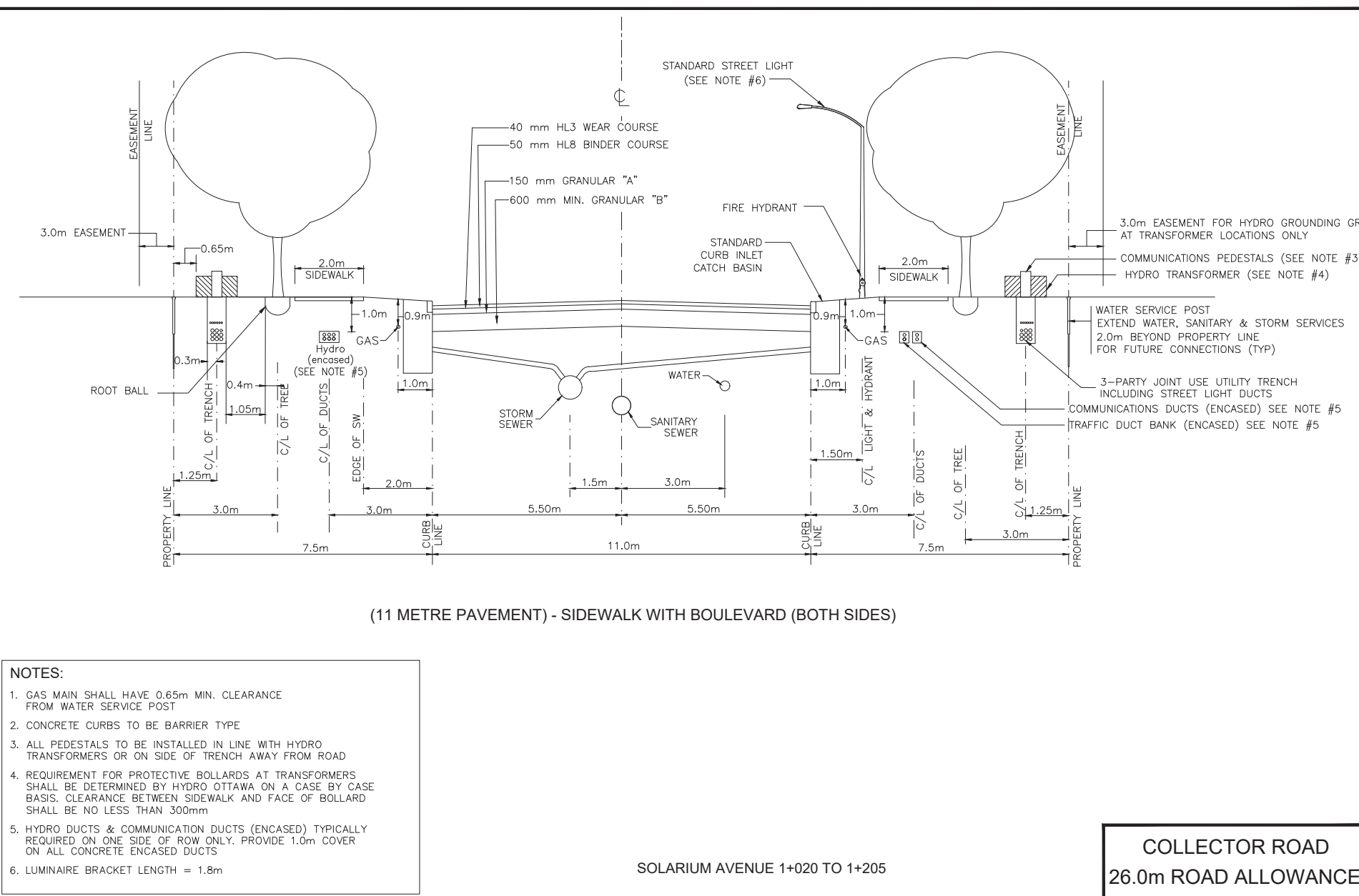
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Design	L.E.	Date	2022-07-20
Drawn	C.C.	Checked	L.E.
Project No.	103291	Drawing No.	003

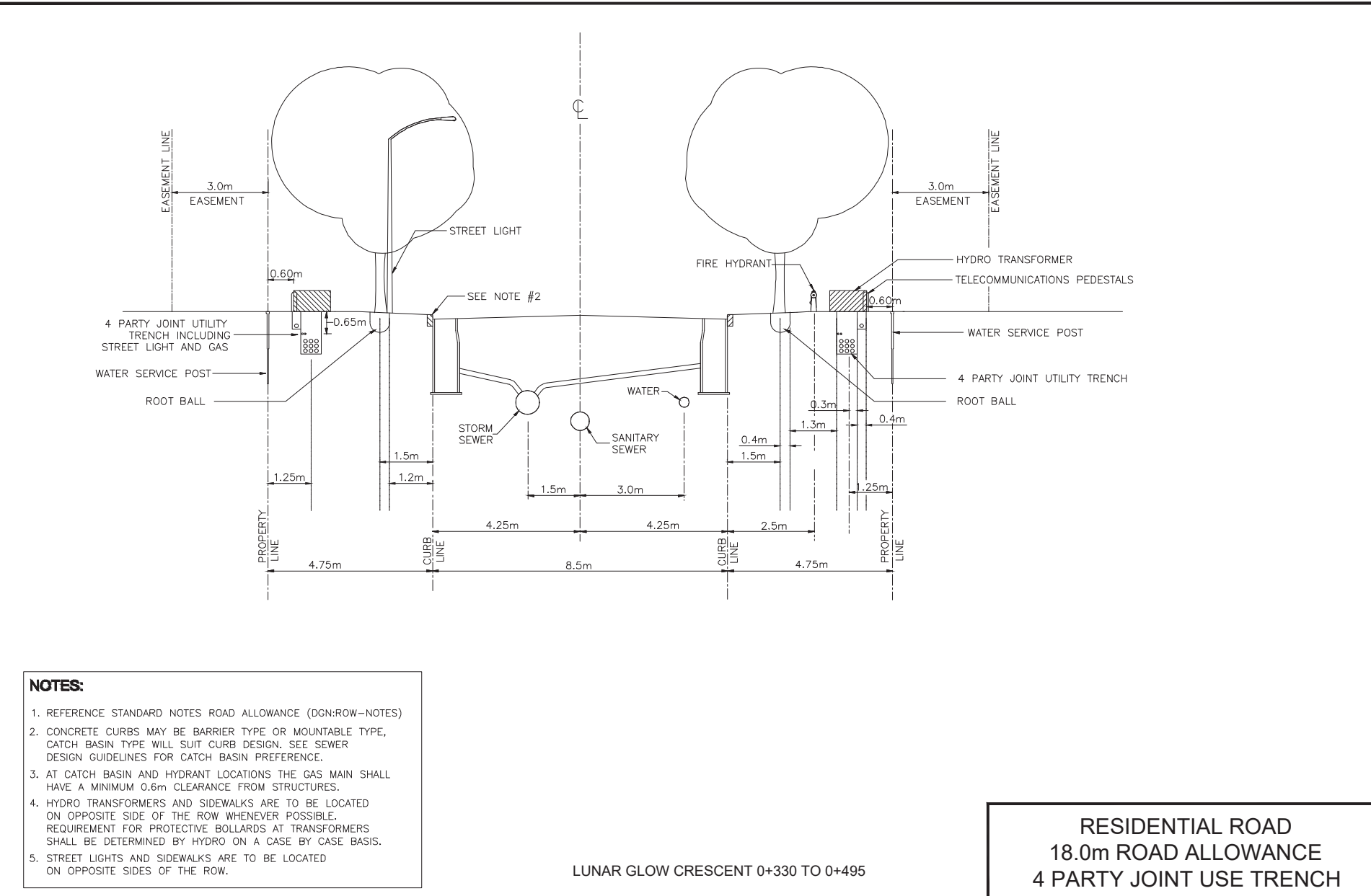
APPROVED
By Lily Xu at 2:20 pm, Nov 09, 2023



LILY XU, MCIP, RPP
MANAGER, DEVELOPMENT REVIEW SOUTH
PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



- NOTES:**
1. GAS MAIN SHALL HAVE 0.60m MIN. CLEARANCE FROM WATER SERVICE POST.
 2. CONCRETE CURBS TO BE BARRIER TYPE.
 3. ALL PEDESTALS TO BE INSTALLED IN LINE WITH HYDRO TRANSFORMERS OR ON SIDE OF TRENCH WITH FROM ROAD TRANSFORMERS AT TRANSFORMER LOCATIONS ONLY.
 4. REQUIREMENT FOR PROTECTIVE BOLLARDS AT TRANSFORMERS SHALL BE DETERMINED BY HYDRO OTTAWA ON A CASE BY CASE BASIS. CLEARANCE BETWEEN SIDEWALK AND FACE OF BOLLARD SHALL BE NO LESS THAN 300mm.
 5. HYDRO DUCTS & COMMUNICATION DUCTS (ENCASED) TYPICALLY REQUIRED ON ONE SIDE OF ROW ONLY. PROVIDE 1.0m COVER ON ALL CONCRETE ENCASED DUCTS.
 6. LUMINAIRE BRACKET LENGTH = 1.8m.



- NOTES:**
1. REFERENCE STANDARD NOTES ROAD ALLOWANCE (DOWN-ROW-NOTES).
 2. CONCRETE CURBS MAY BE BARRIER TYPE OR MOUNTABLE TYPE. CATCH BASIN TYPE WILL SUIT CURB DESIGN. SEE SEWER DESIGN GUIDELINES FOR CATCH BASIN PREFERENCE.
 3. AT CATCH BASIN AND HYDRANT LOCATIONS THE GAS MAIN SHALL HAVE A MINIMUM 0.6m CLEARANCE FROM STRUCTURES.
 4. HYDRO TRANSFORMERS AND SIDEWALKS ARE TO BE LOCATED ON OPPOSITE SIDE OF THE ROW WHENEVER POSSIBLE. REQUIREMENT FOR PROTECTIVE BOLLARDS AT TRANSFORMERS SHALL BE DETERMINED BY HYDRO ON A CASE BY CASE BASIS.
 5. STREET LIGHTS AND SIDEWALKS ARE TO BE LOCATED ON OPPOSITE SIDES OF THE ROW.

- NOTES:**
1. THE STANDARDS INDICATE MINIMUM DIMENSIONS THAT ARE TO BE INCORPORATED INTO THE DESIGN OF ANY NEW DEVELOPMENTS INVOLVING NEW AND EXISTING STREETS. ANY VARIATION TO THIS 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 DRAWINGS IN ORDER TO RECEIVE APPROVAL THROUGH THE SITE PLAN CONTROL AND SUBDIVISION APPROVALS PROCESS.
 4. TRICAL CROSS SECTION ROULEVARD WITH SHALL BE MAINTAINED WHEN CONSTRUCTING CUL-DE-SACS AND CORNER LOTS REGARDLESS OF ROAD WAY GEOMETRY.
 5. WATERMANS 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 CENTERLINE TO ACCOMMODATE LARGE SIZE SEWER PIPES AND STILL MAINTAIN THE CLEARANCES REQUIRED TO WATERMANS.
 7. THE USE IN-HOUSE CATCH BASINS INSTEAD OF CURB INLET CATCH BASINS SHALL BE APPROVED BY AN AUTHORIZED CITY REPRESENTATIVE.
 8. THE USE OF BARRIER CURB AND MOUNTABLE CURB SHALL BE APPROVED BY AN AUTHORIZED CITY REPRESENTATIVE. MOUNTABLE CURB SHALL BE SPECIFIED FOR TYPICAL TOWNHOUSE DEVELOPMENTS.
 9. BUILDING SEWERS AND WATER SERVICES ARE TO BE CONSTRUCTED 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 PFC MATERIAL SHALL BE LAID IN ONE CONTINUOUS PIPE LENGTH (i.e. SPlicing AND JOINTING SHALL NOT BE PERMITTED) FROM INSIDE 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 CONFORMANCE PLAN INSTALLATION.
 13. TRANSFORMERS AND PEDESTALS SHALL BE LOCATED BETWEEN TOWNHOUSE BUILDING BLOCKS RATHER THAN ENCROACHING AND/OR PENETRATING THE INSTALLATION OF ROAD ALLOWANCE TREES.
 14. ALL PEDESTALS TO BE INSTALLED IN LINE WITH HYDRO TRANSFORMERS OR ON INSIDE 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 BOLLARDS 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 (JOINT LOCATION OR
 - 2) SAME OFFSET AS STREET LIGHT POLES IN A SEPARATE TRENCH.
 20. OPTIONAL LOCATION FOR THE TRAFFIC COMMUNICATIONS DUCT IS A TRENCH LOCATED AT THE SAME OFFSET AS THE STREET LIGHT POLES.
 21. TRAFFIC ELECTRICAL DUCTS SHALL BE PLACED IN JOINT USE DUCT BANKS.
 22. TRAFFIC HANDRAILS MAY BE LOCATED IN THE BOLLARD AREA ADJACENT TO THE SIDEWALK.
 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. 2 TREES ON CORNER LOT WITH ONE OF THE TREES ON THE STREET SIDE OF THE LOT. SPECIFIC TREE SPECIES SHALL BE SELECTED FOR SOIL TYPES AND AVAILABLE SPACES FOR PLANTING. TREE PLACEMENT LOCATION AND TREE SPECIES WILL REQUIRE THE APPROVAL OF THE CITY. TREE PLANTING SHALL BE HAND EXCAVATED FOR THOSE LOCATIONS WITH LESS THAN 1 METRE CLEARANCE TO THE JLT.

 **STANDARD NOTES ROAD ALLOWANCE**

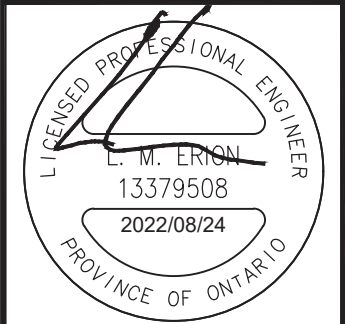
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REV: MARCH 2009
DATE:
DWG. No.: ROW-NOTES

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1	REVISED PER CITY COMMENTS	L.M.E	2022-08-24
No.	REVISIONS	By	Date



IBI GROUP
400 - 333 Preston Street
Ottawa ON K1S 5N4 Canada
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ibigroup.com

Project Title
910 SOLARIUM

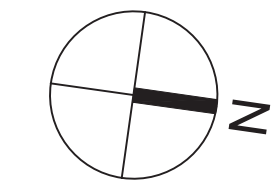
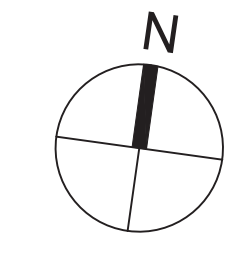
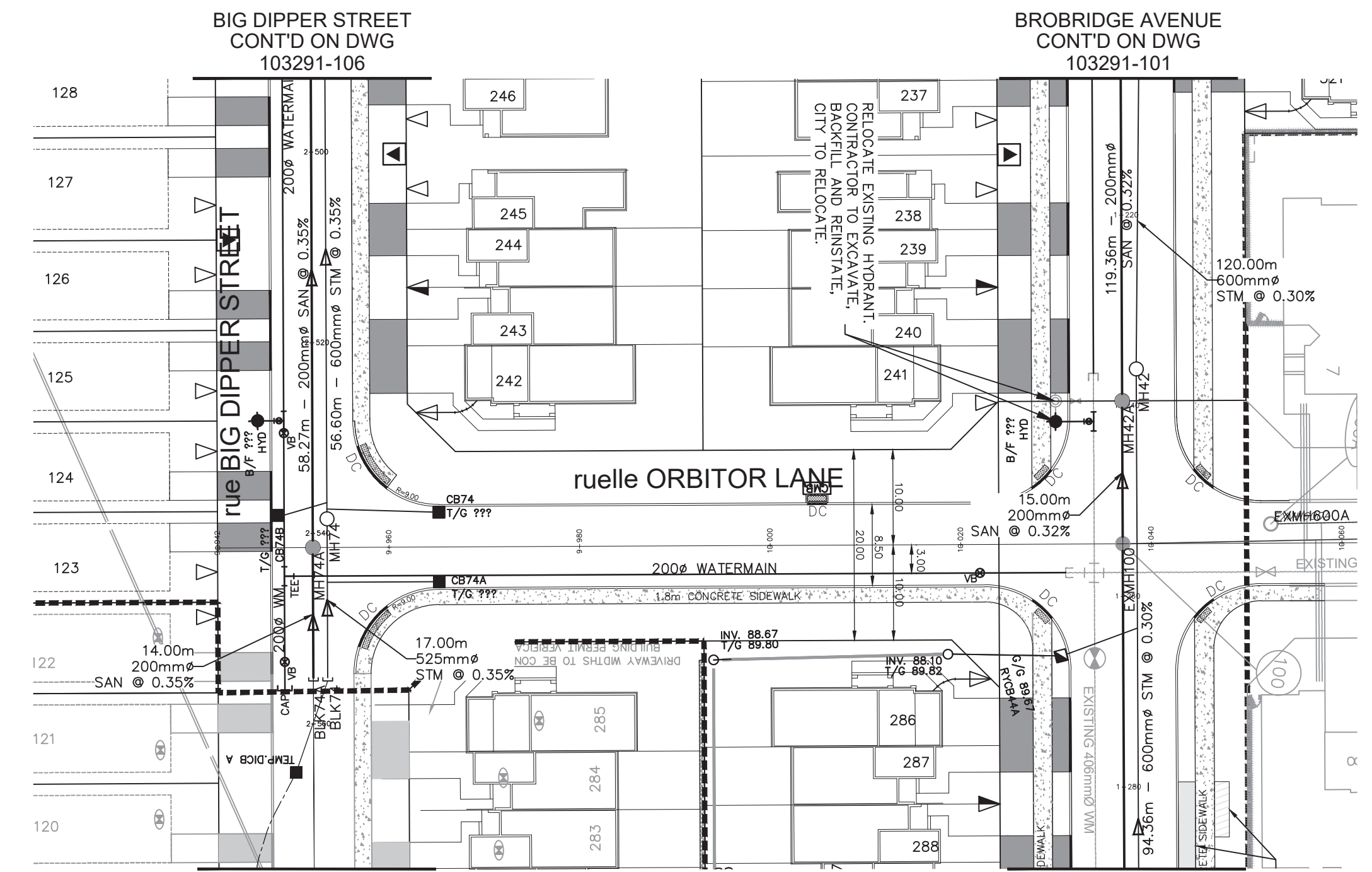
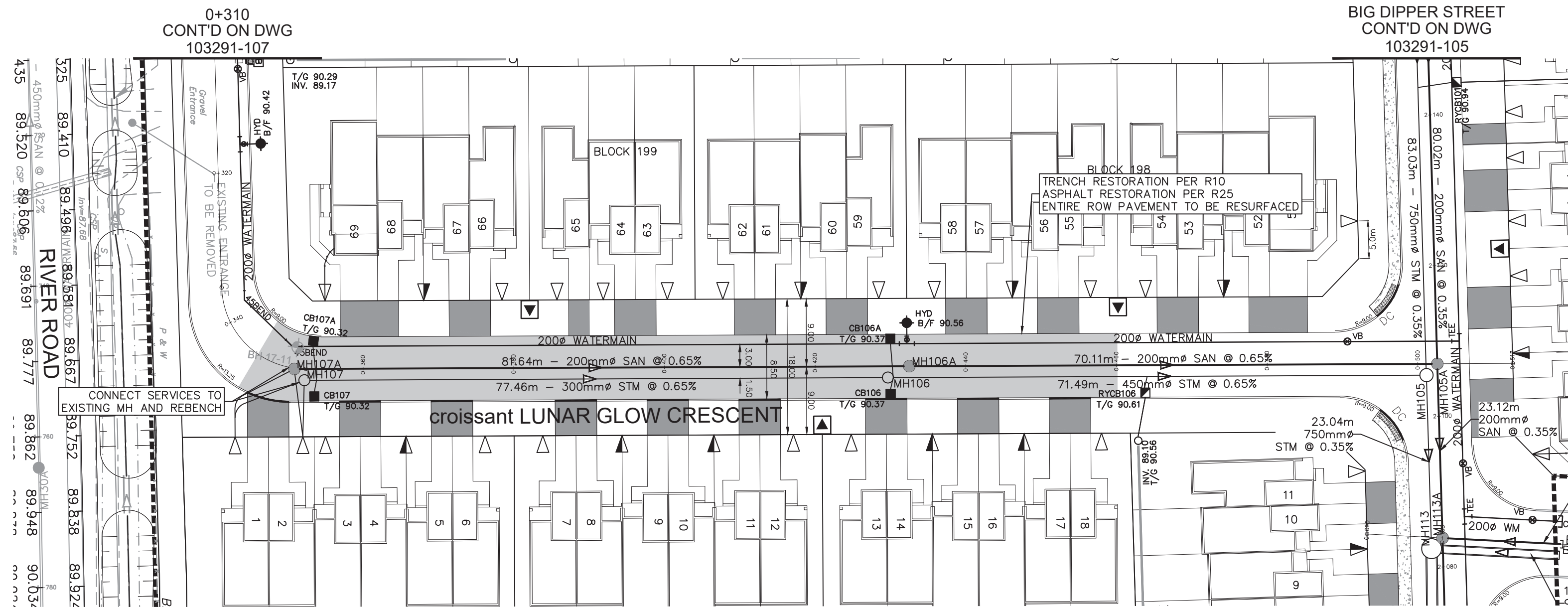


Drawing Title
STREET SECTIONS

Scale
N.T.S.

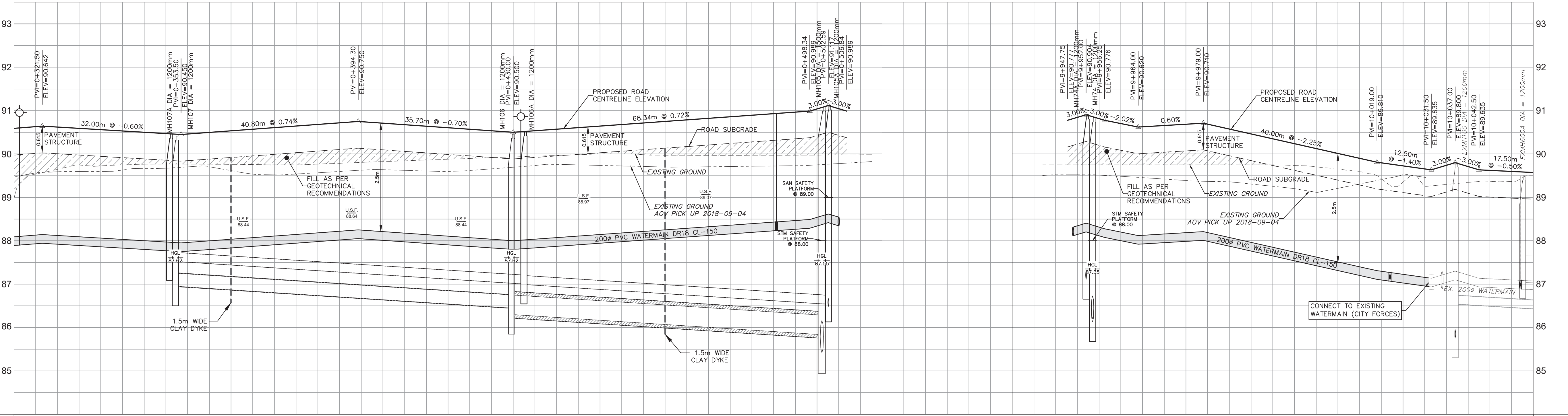
Design	L.E.	Date	2022-07-20
Drawn	C.C.	Checked	L.E.
Project No.	103291	Drawing No.	011

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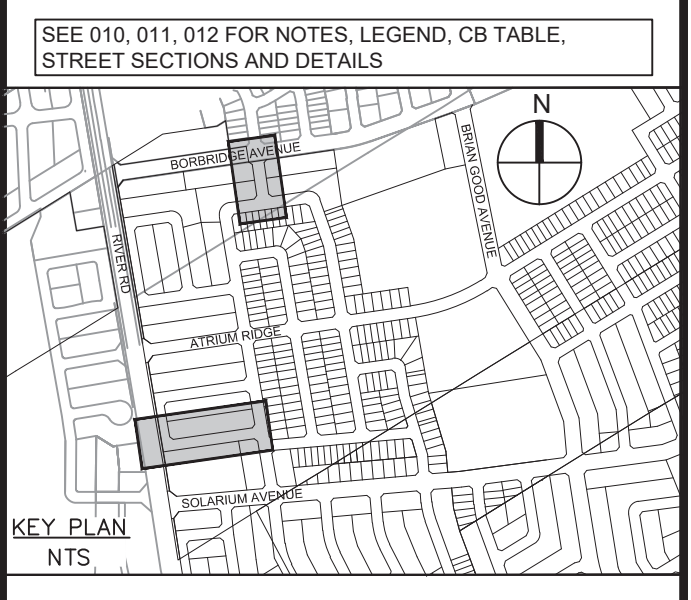


APPROVED
By Lily Xu at 2:20 pm, Nov 09, 2023


LILY XU, MCIP, RPP
MANAGER, DEVELOPMENT REVIEW SOUTH
PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



STATION	SAN SEWER INVERT	STM SEWER INVERT	TOP OF WATERMAIN	ROAD GRADE
0+316.240	HYDRANT		88.100	90.530
0+320			88.130	90.542
0+327.524	45BEND		88.031	90.531
0+340			87.950	90.450
0+350.028	45BEND		87.998	90.498
0+360			88.145	90.645
0+380		77.46m - 300mm PVC DR-35 STM @ 0.65%	88.250	90.750
0+400			88.210	90.710
0+420			88.070	90.570
0+432.176	HYDRANT		88.000	90.500
0+440			88.072	90.572
0+460		71.49m - 450mm CONC. CL 140-D STM @ 0.65%	88.215	90.715
0+480			88.358	90.858
0+490.660	VB		88.434	90.934
0+500	86.540W		88.489	90.989
0+506.515	86.490N		88.539	91.039
	86.480S		88.617	91.117
	TEL		88.544	90.989
9+940			88.314	90.777
9+949.000	TEE		88.404	90.804
9+960			88.276	90.776
9+970			88.201	90.701
9+980			88.120	90.620
10+000			88.749	90.710
10+020			87.737	90.237
10+031.000	EX CAP		87.377	89.810
10+034.000	EX CAP		87.310	89.748
10+040	87.330		89.635	89.635
	86.750W		89.800	89.800
	86.570N		89.710	89.710
	86.540W		89.635	89.635
10+052.000	EX CROSSES		87.047	89.047

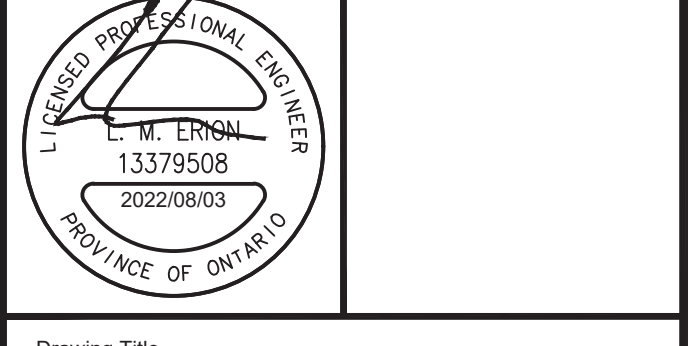


No.	REVISIONS	By	Date
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13			
12			
11			
10	REVISED PER CITY COMMENTS	L.M.E	2022-08-03
9	REVISED UNITS ALONG SOLARIUM AVE & LUNAR GLOW CRES	L.M.E	2022-05-13
8	MILESTONE REISSUE TO CONTRACTOR	L.M.E	2020-06-12
7	REVISED SERVICE LATERALS	L.M.E	2019-02-26
6	ISSUED FOR CONSTRUCTION	L.M.E	2018-11-23
5	REVISED PER CITY COMMENTS	L.M.E	2018-11-09
4	ISSUED FOR SEWER CONSTRUCTION	L.M.E	2018-10-15
3	REVISED PER CITY COMMENTS	L.M.E	2018-10-02
2	ISSUED FOR TENDER	L.M.E	2018-08-31
1	SUBMISSION 1 FOR CITY REVIEW	L.M.E	2018-07-13



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Project Title
RIVERSIDE SOUTH
PHASE 15 - 1A



Drawing Title
LUNAR GLOW CRESCENT & ORBITOR LANE
0+310 TO 0+510 & 9+940 TO 10+060

Scale
HORIZ. SCALE 1 : 500
VERT. SCALE 1 : 50

Design	L.E.	Date	JULY 2018
Drawn	C.C.	Checked	L.E.

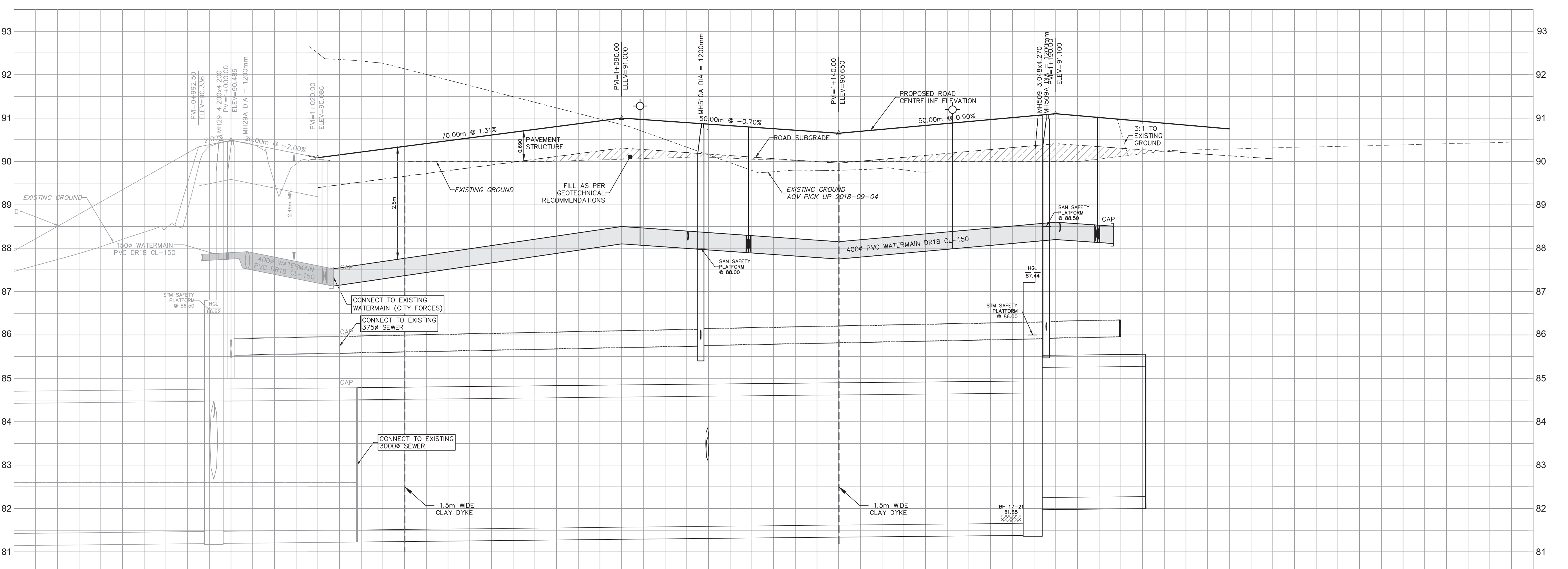
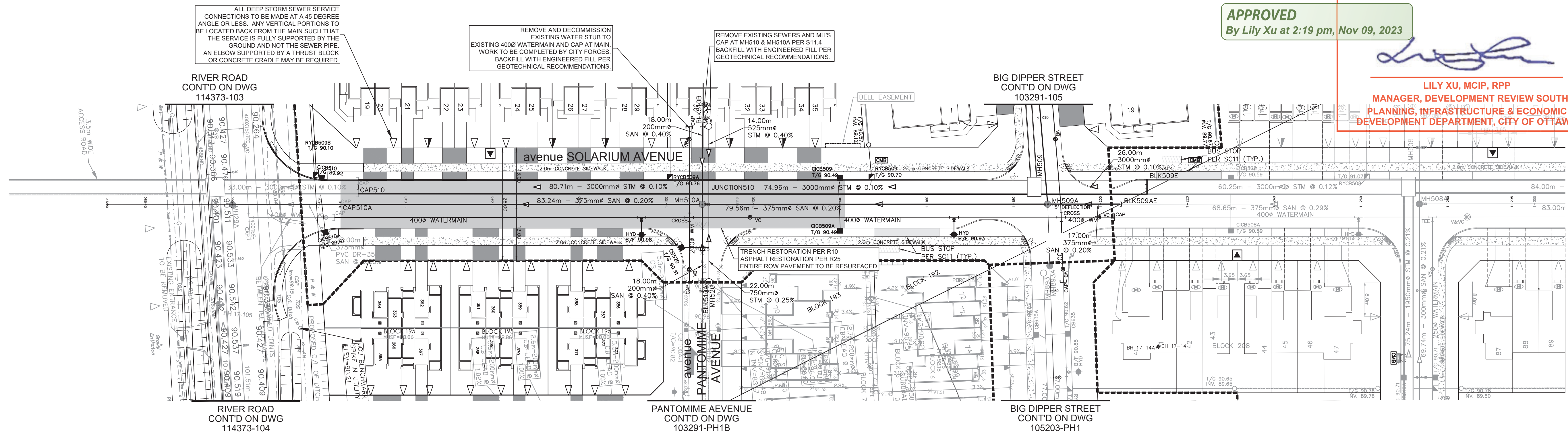
Project No.	103291	Drawing No.	108
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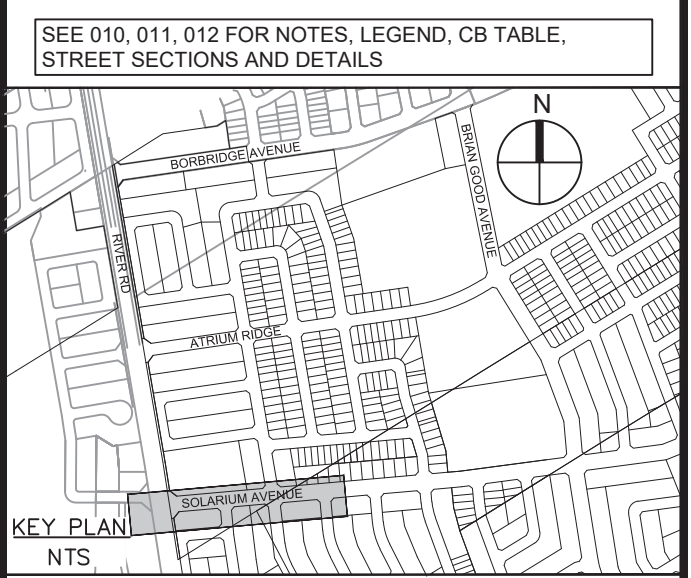
APPROVED
By Lily Xu at 2:19 pm, Nov 09, 2023



LILY XU, MCIP, RPP
MANAGER, DEVELOPMENT REVIEW SOUTH
PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



ROAD GRADE	TOP OF WATERMAIN	STM SEWER INVERT	SAN SEWER INVERT	STATION	ROAD GRADE	TOP OF WATERMAIN	STM SEWER INVERT	SAN SEWER INVERT	STATION
90.336	87.861	81.472W	81.472W	0+960	90.347	87.767	81.505	81.505	1+020
90.686	87.882	84.097N	84.097N	0+980	90.608	88.060	81.505	81.505	1+040
90.686	87.882	84.097N	84.097N	0+980	90.689	88.353	81.505	81.505	1+080
90.686	87.882	84.097N	84.097N	0+980	91.000	88.500	81.505	81.505	1+100
90.686	87.882	84.097N	84.097N	0+980	90.830	88.430	81.505	81.505	1+120
90.686	87.882	84.097N	84.097N	0+980	90.790	88.295	81.505	81.505	1+140
90.686	87.882	84.097N	84.097N	0+980	90.650	88.150	81.505	81.505	1+160
90.686	87.882	84.097N	84.097N	0+980	90.830	88.330	81.505	81.505	1+180
90.686	87.882	84.097N	84.097N	0+980	90.830	88.386	81.505	81.505	1+200
90.686	87.882	84.097N	84.097N	0+980	91.010	88.510	81.505	81.505	1+220
90.686	87.882	84.097N	84.097N	0+980	91.100	88.590	81.505	81.505	1+240
90.686	87.882	84.097N	84.097N	0+980	91.100	88.594	81.505	81.505	1+260
90.686	87.882	84.097N	84.097N	0+980	91.100	88.530	81.505	81.505	1+280
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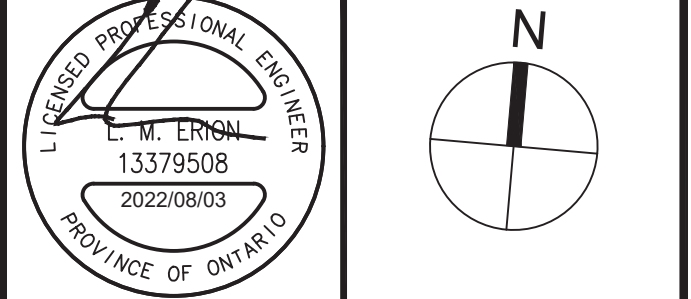


No.	REVISIONS	By	Date
14			
13			
12	REVISED PER CITY COMMENTS	L.M.E.	2022-08-03
11	REVISED UNITS ALONG SOLARIUM AVENUE & LUNAR GLOW CRES.	L.M.E.	2022-05-13
10	MILESTONE REISSUE TO CONTRACTOR	L.M.E.	2020-06-12
9	REVISED HYDRANT LOCATION	L.M.E.	2019-02-27
8	REVISED SERVICE LATERALS	L.M.E.	2019-02-26
7	REVISED PER NEW LEGAL	L.M.E.	2019-01-30
6	ISSUED FOR CONSTRUCTION	L.M.E.	2018-11-23
5	REVISED PER CITY COMMENTS	L.M.E.	2018-11-09
4	ISSUED FOR SEWER CONSTRUCTION	L.M.E.	2018-10-15
3	REVISED PER CITY COMMENTS	L.M.E.	2018-10-02
2	ISSUED FOR TENDER	L.M.E.	2018-08-31
1	SUBMISSION 1 FOR CITY REVIEW	L.M.E.	2018-07-13



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Project Title
RIVERSIDE SOUTH
PHASE 15 - 1A

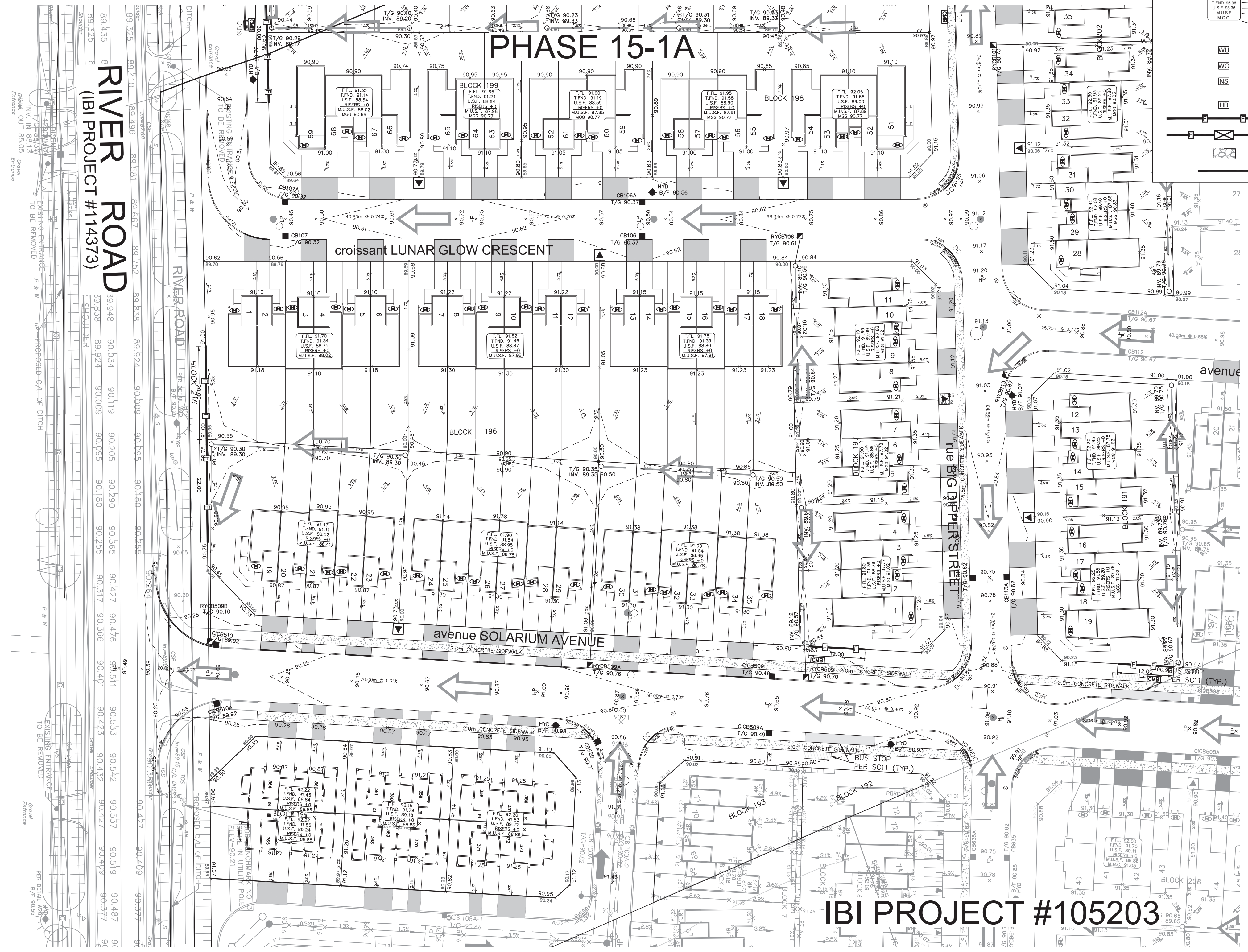
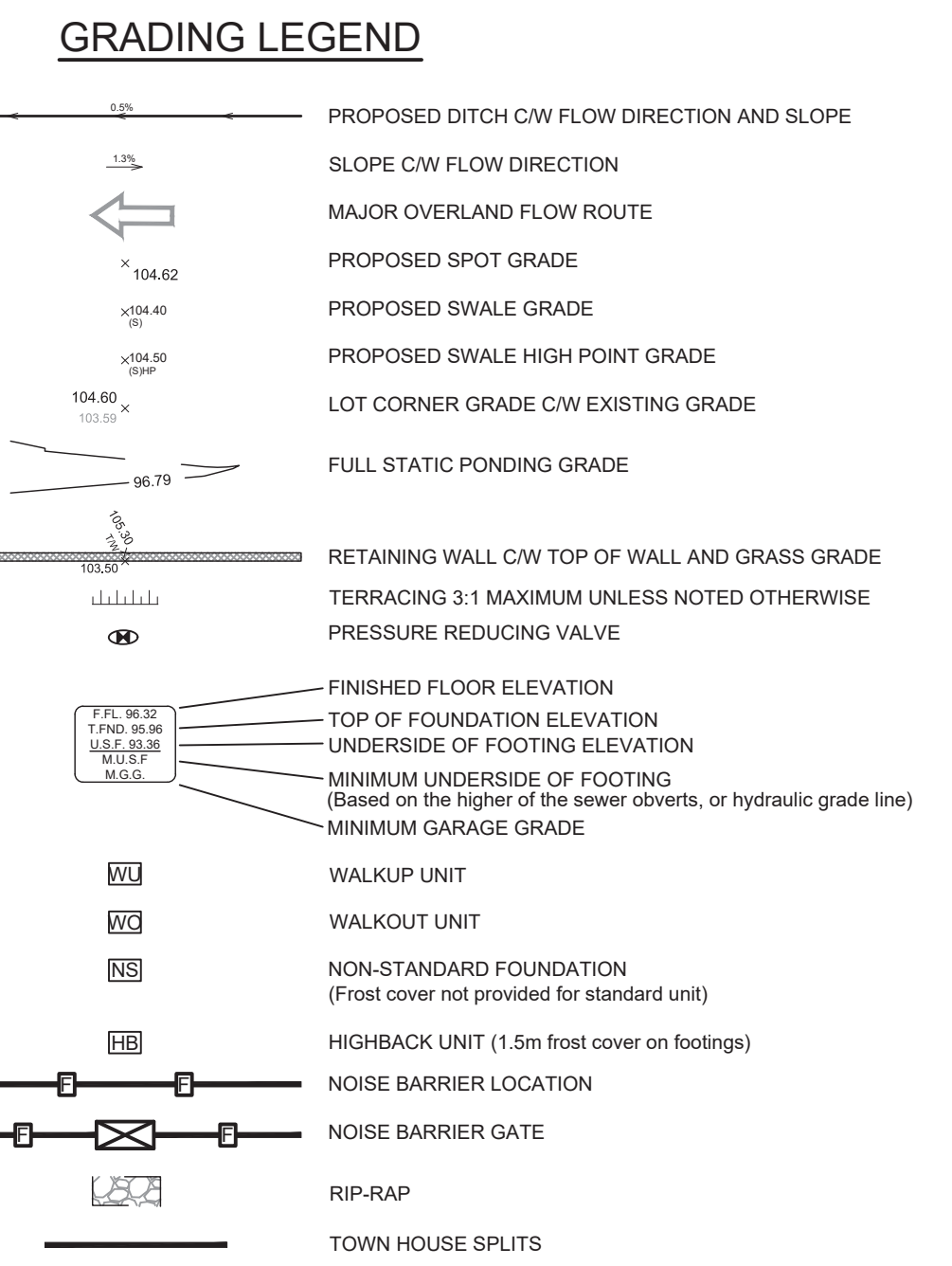


Drawing Title SOLARIUM AVENUE	
0+970 TO 1+300	
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Design	L.E. Date JULY 2018
Drawn	C.C. Checked L.E.
Project No.	103291
Drawing No.	109

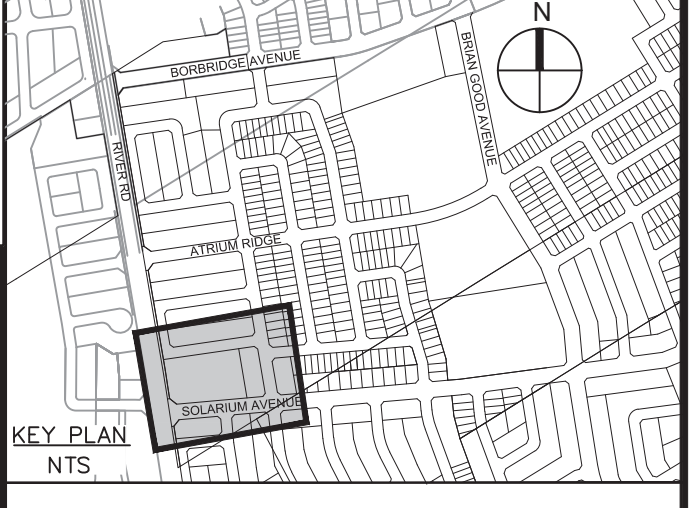
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APPROVED
By Lily Xu at 2:19 pm, Nov 09, 2023

Lily Xu
LILY XU, MCIP, RPP
MANAGER, DEVELOPMENT REVIEW SOUTH
PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA



SEE 010, 011, 012 FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS

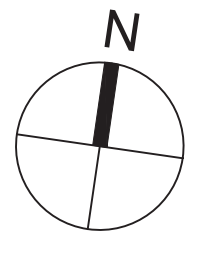
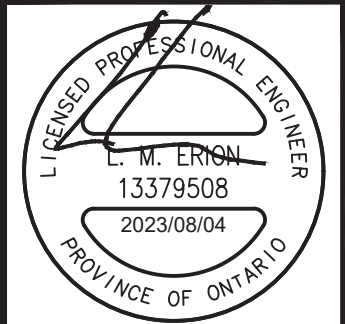


No.	REVISIONS	By	Date
3	REVISED PER CITY COMMENTS	L.M.E	2023-08-04
2	REVISED PER CITY COMMENTS	L.M.E	2022-10-04
1	SUBMISSION 1 FOR CITY REVIEW	L.M.E	2022-07-21

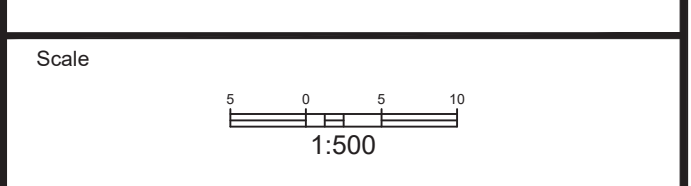


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Project Title
910 SOLARIUM



Drawing Title
GRADING PLAN



Design	L.E.	Date	2022-07-20
Drawn	C.C.	Checked	L.E.
Project No.	103291	Drawing No.	204

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