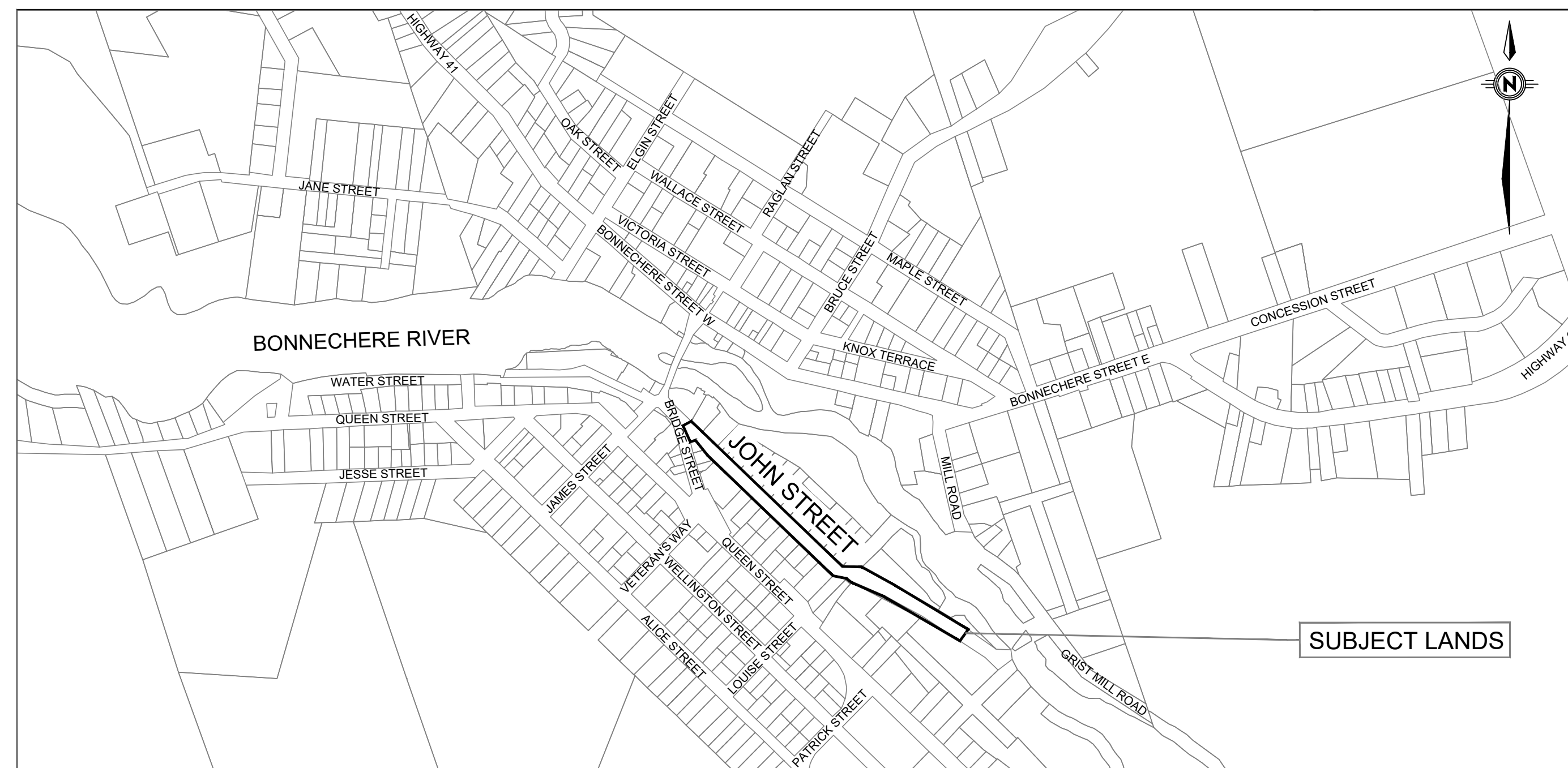




# TOWNSHIP OF BONNECHERE VALLEY

## JOHN STREET, EGANVILLE MUNICIPAL SERVICES UPGRADES



ANNETTE GILCHRIST, CMO, AOMC  
CAO - Township of Bonnechere Valley



CONTRACT NO. 21981-047

Tender Submission  
June 26, 2026

### SITE SERVICING

**EXISTING**

(CURB STOP) PCS  
305mmØ WM  
203mmØ WM

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

**PROPOSED**

(CURB STOP) PCS  
305mmØ WM  
203mmØ WM

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

WATERMAIN

CO (CLEANOUT)  
200mmØ SAN  
MH1A

SANITARY SEWER

LATERAL  
MAINTENANCE HOLE & NUMBER  
CAP

CO (CLEANOUT)  
200mmØ SAN  
173

LATERAL  
MAINTENANCE HOLE & NUMBER  
CAP

STORM SEWER

375mmØ ST  
673

LATERAL  
CATCH BASIN & LEAD  
MAINTENANCE HOLE & NUMBER  
CATCH BASIN  
MAINTENANCE HOLE  
CAP

375mmØ ST  
526

LATERAL  
CATCH BASIN & LEAD  
MAINTENANCE HOLE & NUMBER  
CATCH BASIN  
MAINTENANCE HOLE  
CAP

PERFORATED PIPE

TEE CATCH BASIN  
ELBOW CATCH BASIN

ICD SYMBOLS (REFER TO ICD TABLE FOR DETAILS)

CATCH BASIN c/w ICD  
INTERCONNECTED  
CATCH BASIN c/w ICD  
INTERCONNECTED  
CATCH BASIN c/w ICD  
INTERCONNECTED  
CATCH BASIN c/w ICD  
INTERCONNECTED

DITCH AND CULVERT

DITCH c/w PERFORATED PIPE SUBDRAIN

CONC. SW  
CONC. SW  
CONCRETE SIDEWALK

DC  
DC  
CURB & DEPRESSED CURB

ASPH. SW  
ASPH. SW  
ASPHALT SIDEWALK

CHAINLINK FENCE

NOISE BARRIER

WOOD PRIVACY BARRIER

POST AND RAIL FENCE

PHASING LIMITS

EASEMENT

BOREHOLE (BH)  
BH-05  
192.00  
191.50  
TP-04  
191.90  
191.63  
TEST PIT (TP)  
GROUND SURFACE ELEVATION  
DEPTH OF REFUSAL

AUGER HOLE (AH)  
AH-03

MONITORING WELL LOCATION

CONCEPTUAL WELL LOCATION

CONCEPTUAL SEPTIC ENVELOPE LOCATION

DRAWING REFERENCE NUMBER  
8

BENCHMARK LOCATION  
CP#

CONTROL POINT LOCATION

### GRADING

91.00 CONTOUR

92.52 PROPOSED ELEVATION

92.49 EXISTING ELEVATION

92.55 TOP OF GRATE ELEVATION

PROPOSED TERRACING

1.50% SURFACE SLOPE

FLOW DIRECTION

MAJOR OVERLAND FLOW DIRECTION

93.05 PROPOSED ELEVATION AT REAR OF HOUSE

45 LOT NUMBER

ER EXTRA RISER

93.05 PROPOSED ELEVATION AT FRONT OF HOUSE

FF = 93.50 FINISHED FLOOR ELEVATION

TF = 93.20 TOP OF FOUNDATION ELEVATION

UF = 90.65 UNDERSIDE OF FOOTING ELEVATION

RUF = 90.65 REAR UNDERSIDE OF FOOTING ELEVATION

### SANITARY DRAINAGE

DRAINAGE BOUNDARY

0.29 AREA IN HECTARES

24 NUMBER OF UNITS

### STORM DRAINAGE

DRAINAGE BOUNDARY

0.29 AREA IN HECTARES

0.90 5YR RUNOFF COEFFICIENT

### PONDING (URBAN)

PONDING AREA

100 YEAR PONDING AREA

1 PONDING AREA NUMBER

200 14 PONDING VOLUME

0.20 78.30 WATER LEVEL ELEVATION

PONDING DEPTH

### EROSION & SEDIMENT CONTROL

PROPOSED SILT FENCE

PROPOSED ROCK FLOW CHECK DAM

PROPOSED STRAW BALE BARRIER

FILTER CLOTH FOR EXISTING STRUCTURE

PROPOSED RIP RAP TREATMENT

PROPOSED EROSION CONTROL BLANKET

### UTILITY

**EXISTING**

H.B.C

2H,1B,1C DENOTES NUMBER OF DUCTS

SL CONCRETE ENCASED DUCT

G STREET LIGHT CABLE

G NATURAL GAS LINE

**PROPOSED**

H.B.C

2H,1B,1C DENOTES NUMBER OF DUCTS

SL CONCRETE ENCASED DUCT

G STREET LIGHT CABLE

G NATURAL GAS LINE

HP SERVICE ENTRANCE HYDRO, BELL, CABLE

END WALL BOX

CABLE PEDESTAL

CABLE GRADE LEVEL BOX

BELL PEDESTAL

BELL GRADE LEVEL BOX FOR SPLICING

BELL CENTRAL SPLITTING POINT

HYDRO TRANSFORMER

HYDRO SECTIONALIZER

HYDRO MAINTENANCE HOLE

HYDRO SWITCHING MAINTENANCE HOLE

HP HYDRO POLE

HP HYDRO POLE c/w GUY WIRE

STREET LIGHT CABINET

STREET LIGHT POLE & GROUND WIRE

PATHWAY LIGHT

PARKING LIGHT

CMB COMMUNITY MAILBOX

BUS BUS STOP LOCATION c/w ASPHALT BOULEVARD

TREE

### GENERAL NOTES

- WITH THE EXCEPTION OF THE CITY OF OTTAWA CONSTRUCTION SPECIFICATIONS & STANDARD DETAIL DRAWINGS REFERRED TO IN THIS CONTRACT, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) & STANDARD SPECIFICATIONS (OPSS) SHALL APPLY TO THIS CONTRACT
- ALL DIMENSIONS SHOWN ON PLANS ARE IN METRES UNLESS OTHERWISE NOTED.
- DRAWINGS TO BE READ IN CONJUNCTION WITH THE GEOTECHNICAL INVESTIGATION REPORT NUMBER 101260.004 PREPARED BY GEMTEC.
- UNLESS OTHERWISE NOTED, PIPE DIMENSIONS ARE MEASURED FROM THE CENTRELINE OF THE MAINTENANCE HOLE.
- THE OUTSIDE DIAMETER OF PIPES ARE DRAWN IN PROFILE VIEW.
- THE CONTRACTOR IS RESPONSIBLE TO DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL SERVICES AND UTILITIES PRIOR TO CONSTRUCTION AND SHALL PROTECT AND ASSURE RESPONSIBILITY FOR ALL UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION, BACKFILL, REINSTATEMENT OF ALL AREAS DISTURBED DURING CONSTRUCTION AND ALL ASSOCIATED WORKS TO THE SATISFACTION OF THE ENGINEER AND THE TOWNSHIP OF BONNECHERE VALLEY.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE, VIA EXCAVATION, THE EXACT LOCATION AND ELEVATION OF THE EXISTING WATERMANS, SEWERS AND UNDERGROUND STRUCTURES AS REQUIRED FOR ALL CONNECTIONS, RELOCATIONS AND BLANKINGS.
- EXCAVATION, FOR THE INSTALLATION OF MAINLINE PIPES AND SERVICES ALONG OR IN PROXIMITY OF A BUILDING AND STRUCTURES, TO BE CONTAINED WITHIN A TRENCH BOX WIDTH.
- PIPE SEPARATION AS PER MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE (MECP) GUIDELINES.
- DISPOSE OF ALL EXCESS MATERIAL OFF SITE IN THE ACCORDANCE WITH THE SPECIFICATIONS AND THE ASSOCIATED SOIL MANAGEMENT PLAN PREPARED BY THE CONTRACTORS QUALIFIED PERSON.
- REINSTATE GRASSED AREAS WITH 100mm of TOPSOIL AND No. 1 NURSERY SOD.
- PROTECT ALL UTILITIES INCLUDING UTILITY POLES.
- ALL TREES ARE TO BE PROTECTED.
- SAW CUT ASPHALT TO PROVIDE CLEAN LINES PRIOR TO REINSTATEMENT. PROVIDE 300mm WIDE STEP JOINT (400mm DEEP). TREAT ALL CUT FACES WITH TACK COAT BEFORE PLACING NEW ASPHALT.
- THE UTILITIES INFORMATION CONTAINED ON THIS DRAWING MAY BE BASED UPON DATA BY OTHERS AND MAY NOT HAVE BEEN VERIFIED BY EITHER AS-CONSTRUCTED DRAWINGS OR AN ONTARIO LAND SURVEYOR. THE TOWNSHIP OF BONNECHERE VALLEY CANNOT ACCEPT RESPONSIBILITY FOR THE ERRORS OR OMISSIONS ON ANY INFORMATION SHOWN HEREIN. FIELD VERIFICATION, LAND SURVEYS OR EXCAVATION (WITH CITY APPROVALS) MAY BE REQUIRED TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERTY LINES.
- THE LOCATION OF THE UTILITIES IS APPROXIMATE ONLY. THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVIDE THE LOCATION OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION FROM DAMAGE.
- THE CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING SANITARY AND STORM SERVICES IN THE FIELD AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
- BOREHOLES ARE APPROXIMATE ONLY. FOR FURTHER INFORMATION REFER TO GEOTECHNICAL REPORT. SOIL INFORMATION SHOWN IS NOT GUARANTEED AND CONTRACTORS ARE ADVISED TO COLLECT ADDITIONAL SOILS INFORMATION AS DEEMED NECESSARY.
- MAINTAIN ACCESS AT ALL TIMES TO ALL MHS, VALVE BOXES AND VALVE CHAMBERS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROTECTION FOR ALL EXISTING UNDERGROUND AND ABOVE GROUND UTILITIES DURING CONSTRUCTION.

### WATERMAIN NOTES

- EXISTING WATERMAIN INFORMATION SHOWN ON PLANS IS BASED ON BEST CURRENT INFORMATION. CONTRACTOR TO VERIFY EXACT LOCATION OF WATERMAIN AND APPURTENANCES. REPORT ANY DISCREPANCIES TO THE ENGINEER.
- EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMANS BY CONTRACTOR, UNLESS OTHERWISE NOTED. NO WATERMAIN SITE WORK IS TO COMMENCE UNLESS THE TOWNSHIP OF BONNECHERE VALLEY WATER WORKS STAFF ARE PRESENT ON SITE TO WITNESS WORK.
- WATERMAIN TO BE PVC DR-18.
- WATERMAIN AND WATER SERVICE TO HAVE A MINIMUM OF 2.4 METERS OF COVER. INSULATION TO BE PROVIDED WHERE MINIMUM COVER CANNOT BE ACHIEVED AS PER OPSD STANDARD 1109.030 IN CONJUNCTION WITH OPSD 3090.100 AND 3090.101. WATERMAIN TO BE INSTALLED TO DEPTHS SHOWN ON PLANS.
- ALL WATERMANS AND WATER SERVICES LESS THAN 2.4m FROM A STORM SEWER, CATCH BASIN OR MANHOLE SHALL BE INSULATED IN ACCORDANCE WITH THE OPSD 1109.030 REQUIREMENTS AS SET OUT IN THE OPSD 1605.
- WATER SERVICES TO BE DISCONNECTED FROM THE MAINLINE, PROTECTED DURING CONSTRUCTION AND RECONNECTED TO THE NEW WATERMAIN.

### STORM SEWER NOTES

- STORM SEWERS TO BE REINFORCED CONCRETE AND/OR PVC DR-35.
- STORM SEWERS WITHIN ROADWAY WITH LESS THAN 2.0m COVER SHALL BE INSULATED.
- STORM CATCH BASIN STRUCTURES TO BE 600mm x 800mm PRECAST CONCRETE OR APPROVED EQUIVALENT C/W 600mm DEEP SUMP AND FRAME AND COVER PER OPSD 705.010, UNLESS OTHERWISE NOTED.
- STREET CATCH BASIN LEADS TO BE INSTALLED WITH 1% GRADIENT MINIMUM, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.

### SANITARY SEWER NOTES

- SANITARY SEWERS TO BE REINFORCED CONCRETE 100-D CLASS AND/OR PVC DR-35.
- CONTRACTOR TO VERIFY EXISTING SEWER INVERTS AT THE IN POINTS PRIOR TO MOBILIZING TO SITE AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE CONTRACT ADMINISTRATOR.
- SANITARY SERVICES TO BE REPLACED AND REINSTATED UP TO PROPERTY LINES.
- SANITARY MAINTENANCE HOLES TO BE PRECAST CONCRETE IN ACCORDANCE WITH ONTARIO PROVINCIAL STANDARD DRAWINGS 710.010 AND 710.011. ALL SANITARY MAINTENANCE HOLE COVERS TO BE PER OPSD 401.020 (745 mm) OR 401.030 (WATERTIGHT).
- SANITARY MAINTENANCE HOLES TO BE BENCHED PER OPSD701.021
- MATCH EXISTING ELEVATIONS. ENSURE POSITIVE DRAINAGE TOWARD A SUITABLE OUTLET WHETHER INDICATED OR NOT.
- ROADWAY SUBGRADE SHALL BE INSPECTED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF GRANULARS. ROADWAY MATERIAL AND COMPACTION INSPECTION TO BE CARRIED OUT BY A QUALIFIED GEOTECHNICAL ENGINEER AS REQUIRED BY THE MUNICIPALITY.
- ROAD STRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY GEMTEC.

### DRIVEWAYS

- 50mm WEAR COURSE - HL3F
- 150mm BASE - OPSS GRANULAR 'A' COMPACTED TO 98% SPMD

### JOHN STREET - HEAVY

- 50mm WEAR COURSE - (SUPERPAVE 12.5 PG 58-34, OVER)
- 70mm BINDER COURSE - (SUPERPAVE 19 PG 58-34, OVER)
- 150mm BASE - OPSS GRANULAR 'A' COMPACTED TO 98% SPMD (OPSS GRANULAR A CRUSHED STONE)
- 350mm SUBBASE - OPSS GRANULAR B TYPE II COMPACTED TO 98% SPMD (OPSS GRANULAR B TYPE II CRUSHED STONE)

### JOHN STREET - LIGHT

- 40mm WEAR COURSE - (SUPERPAVE 12.5 PG 58-34, OVER)
- 60mm BINDER COURSE - (SUPERPAVE 19 PG 58-34, OVER)
- 150mm BASE - OPSS GRANULAR 'A' COMPACTED TO 98% SPMD (OPSS GRANULAR A CRUSHED STONE)
- 350mm SUBBASE - OPSS GRANULAR B TYPE II COMPACTED TO 98% SPMD (OPSS GRANULAR B TYPE II CRUSHED STONE)

### REINSTATE SURFACES TO EXISTING CONDITION OR BETTER:

- ASPHALT RESTORATION SHALL BE IN ACCORDANCE WITH STANDARD DETAIL R10
- PAVEMENT STRUCTURE, ie THICKNESS OF GRANULARS AND ASPHALT LAYERS SHALL MATCH EXISTING
- BOULEVARDS SHALL BE REINSTATED WITH 100mm TOPSOIL AND SOD

### CURBS TO BE:

- MOUNTABLE TYPE PER OPSD 600.030

### CONTRACTOR SHALL MAINTAIN EXISTING LATERAL AND LONGITUDINAL ROAD SLOPES AND MATCH EXISTING GRADES, ENSURING POSITIVE DRAINAGE WITH NO PONDING.

### EROSION AND SEDIMENT CONTROL NOTES:

- EROSION AND SEDIMENT CONTROL MEASURES TO FOLLOW OPSS 805, CITY OF OTTAWA PROVISION F-1008, AND SPECIAL PROVISIONS OF THE CONTRACT.

DWG. NO.	DESCRIPTION
C00	COVER
C01	INDEX, LEGEND AND NOTES
C02	ALIGNMENT, GEOMETRY AND GENERAL LAYOUT
C03	ALIGNMENT, GEOMETRY AND GENERAL LAYOUT
C04	JOHN STREET - REMOVALS
C05	JOHN STREET - REMOVALS
C06	JOHN STREET - PLAN & PROFILE
C07	JOHN STREET - PLAN & PROFILE
C08	JOHN STREET - PLAN & PROFILE
C09	JOHN STREET - PLAN & PROFILE
C10	JOHN STREET - REINSTATEMENTS
C11	JOHN STREET - REINSTATEMENTS
C12	JOHN STREET - PAVEMENT MARKINGS AND SIGNAGE
C13	JOHN STREET - PAVEMENT ELEVATIONS
C14	JOHN STREET - SANITARY DRAINAGE PLAN
C15	JOHN STREET - STORM DRAINAGE PLAN
C16	DETAILS I
C17	TYPICAL CROSS SECTION ELEMENTS
C18	WATERMAIN DETAILS

VERIFIED SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 0 25m

No.	ISSUE / REVISION	DDMMYY
4	ISSUED FOR TENDER	26-06-26
3	ISSUED FOR DETAILED DESIGN	26-05-26
2	ISSUED FOR PRELIMINARY DESIGN	27-03-26
1	ISSUED FOR UTILITY CIRCULATION	13-02-26

CLIENT: TOWNSHIP OF BONNECHERE VALLEY

CONSULTANT: J.L. Richards ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT: J.L. Richards

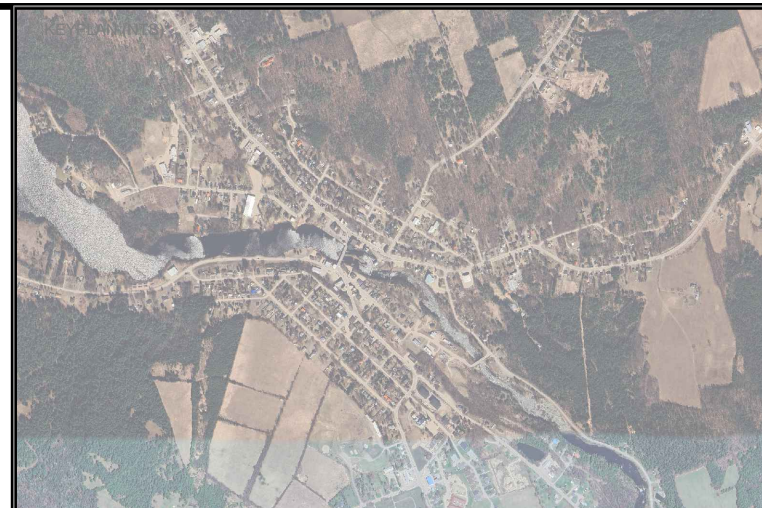
PROFESSIONAL STAMP: PROJECT NORTH

PROJECT: JOHN STREET SEWER AND WATERMAIN RECONSTRUCTION EGANVILLE, ONTARIO

DRAWING: INDEX, LEGEND AND NOTES

DESIGN: DS/AP  
DRAWN: DS  
CHECKED: CB/MB  
JLR #: 21981-047

DRAWING #: C01



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SCALE: 0 25m

CLIENT: TOWNSHIP OF BONNECHERE VALLEY

CONSULTANT: J.L. Richards ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT: J.L. Richards

PROFESSIONAL STAMP: PROJECT NORTH

PROJECT: JOHN STREET SEWER AND WATERMAIN RECONSTRUCTION EGANVILLE, ONTARIO

DRAWING: INDEX, LEGEND AND NOTES

DESIGN: DS/AP  
DRAWN: DS  
CHECKED: CB/MB  
JLR #: 21981-047

DRAWING #: C01

FILE DATE: Thursday, June 26, 2026 7:03:47 PM

THIS DRAWING IS REFERENCED TO NORTH AMERICAN DATUM OF 1983 (NAD83 ORIGINAL).  
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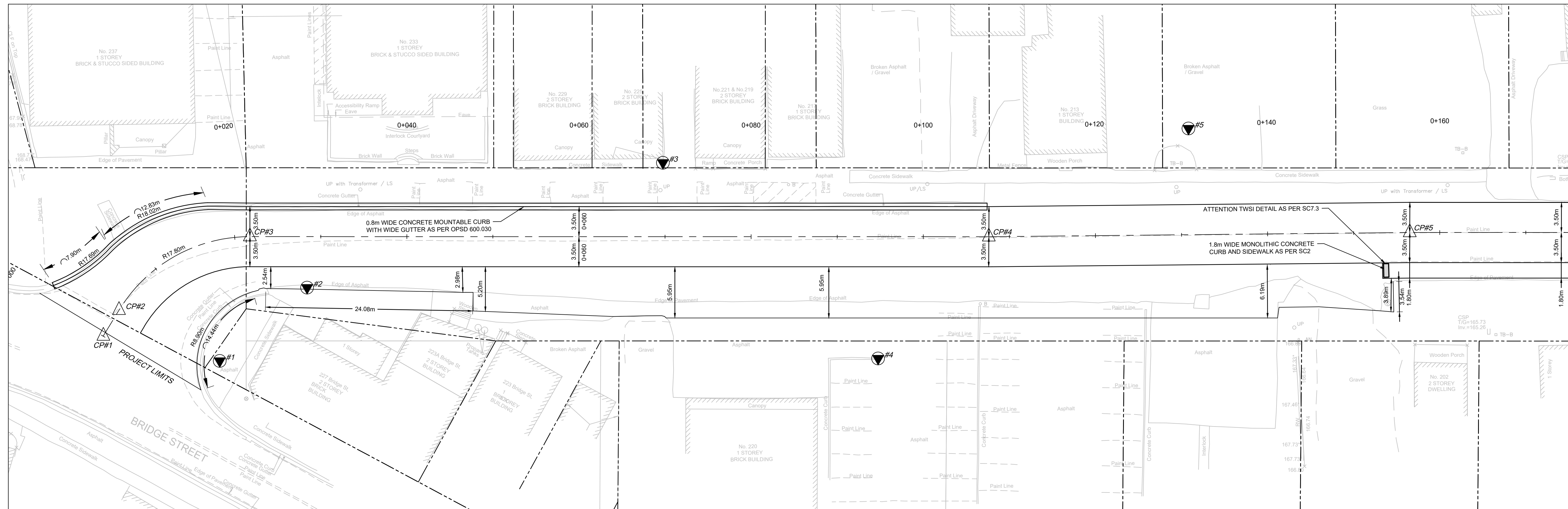
VERTICAL CONTROL, PROPERTY AND TOPOGRAPHIC INFORMATION WAS PROVIDED BY ANNIS O'SULLIVAN VOLLEBEKK LTD.  
FILE: 24830-24 Topo D3.dwg, 24830-24 nov 5 2024.csv, DATED: NOVEMBER 2024



HORIZONTAL ALIGNMENT - JOHN STREET				
REFERENCE NUMBER	DESCRIPTION	STATION	COORDINATES	
			NORTHING	EASTING
CP#1	CONTROL POINT	0+000.00m	5044977.477	335990.405
CP#2	CONTROL POINT	0+003.54m	5044978.345	335993.834
CP#3	CONTROL POINT	0+021.78m	5044973.78	336010.677
CP#4	CONTROL POINT	0+107.61m	5044913.601	336071.886
CP#5	CONTROL POINT	0+156.51m	5044879.675	336107.104
CP#6	CONTROL POINT	0+231.13m	5044827.36	336160.31
CP#7	CONTROL POINT	0+281.53m	5044792.393	336196.603
CP#8	CONTROL POINT	0+317.83m	5044773.463	336227.259
CP#9	CONTROL POINT	0+347.98m	5044763.418	336255.685
CP#10	CONTROL POINT	0+409.46m	5044735.886	336310.475
CP#11	CONTROL POINT	0+502.00m	5044684.275	336387.287

VERTICAL CONTROL POINTS				
REFERENCE NUMBER	DESCRIPTION	COORDINATES		ELEVATION
		NORTHING	EASTING	
BM1	MAG SURVEY NAIL	5044965.931	335998.042	168.607
BM2	MAG SURVEY NAIL	5044964.892	336011.264	168.35
BM3	MAG SURVEY NAIL	5044946.267	336050.91	168.174
BM4	MAG SURVEY NAIL	5044912.518	336052.793	167.877
BM5	MAG SURVEY NAIL	5044906.324	336097.252	167.717
BM6	MAG SURVEY NAIL	5044853.372	336122.651	165.831
BM7	MAG SURVEY NAIL	5044787.257	336219.194	164.383
BM8	MAG SURVEY NAIL	5044773.097	336206.839	164.633
BM9	MAG SURVEY NAIL	5044736.902	336289.369	161.398
BM10	MAG SURVEY NAIL	5044745.978	336322.513	159.905
BM11	MAG SURVEY NAIL	5044683.324	336355.656	159.447
BM12	MAG SURVEY NAIL	5044657.166	336443.004	157.929

JOHN STREET



MATCH LINE STA. 0+180  
SEE DWG NO. C03

No.	ISSUE / REVISION	DDMMYY
4	ISSUED FOR TENDER	26-06-26
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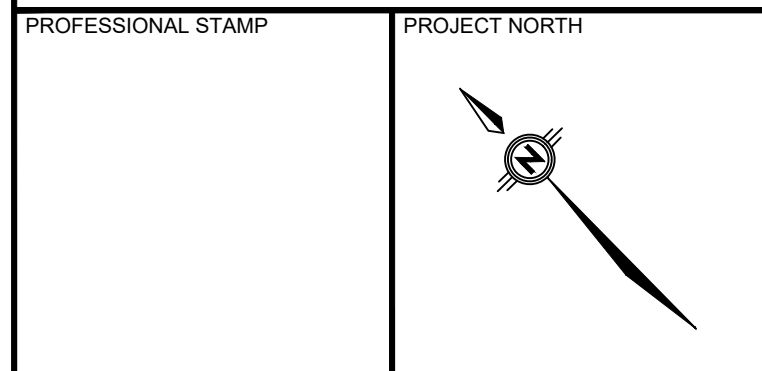
VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: H=1:250



CONSULTANT:  
**JLR J.L. Richards**  
ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:



PROJECT:  
**JOHN STREET  
SEWER AND WATERMAIN  
RECONSTRUCTION**  
EGANVILLE, ONTARIO

DRAWING:  
**JOHN STREET  
ALIGNMENT AND GEOMETRY  
0+000 - 0+180**

DESIGN: DS/AP	DRAWING #:
DRAWN: DS	<b>C02</b>
CHECKED: CB/MB	
JLR #: 21981-047	

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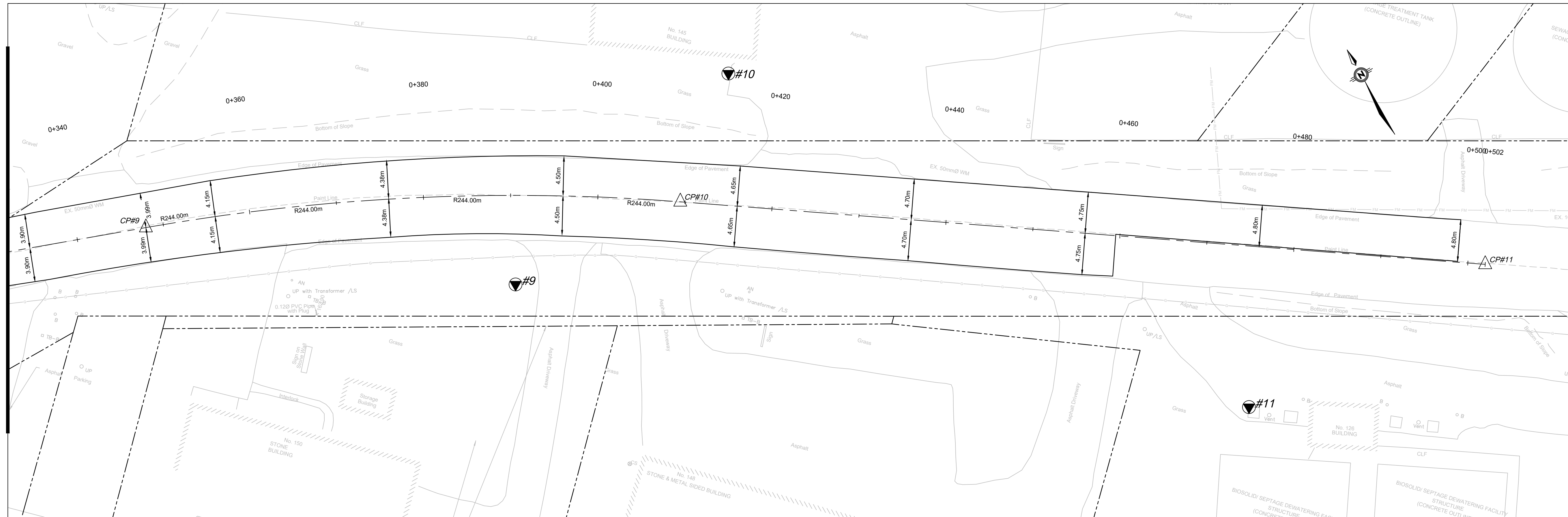
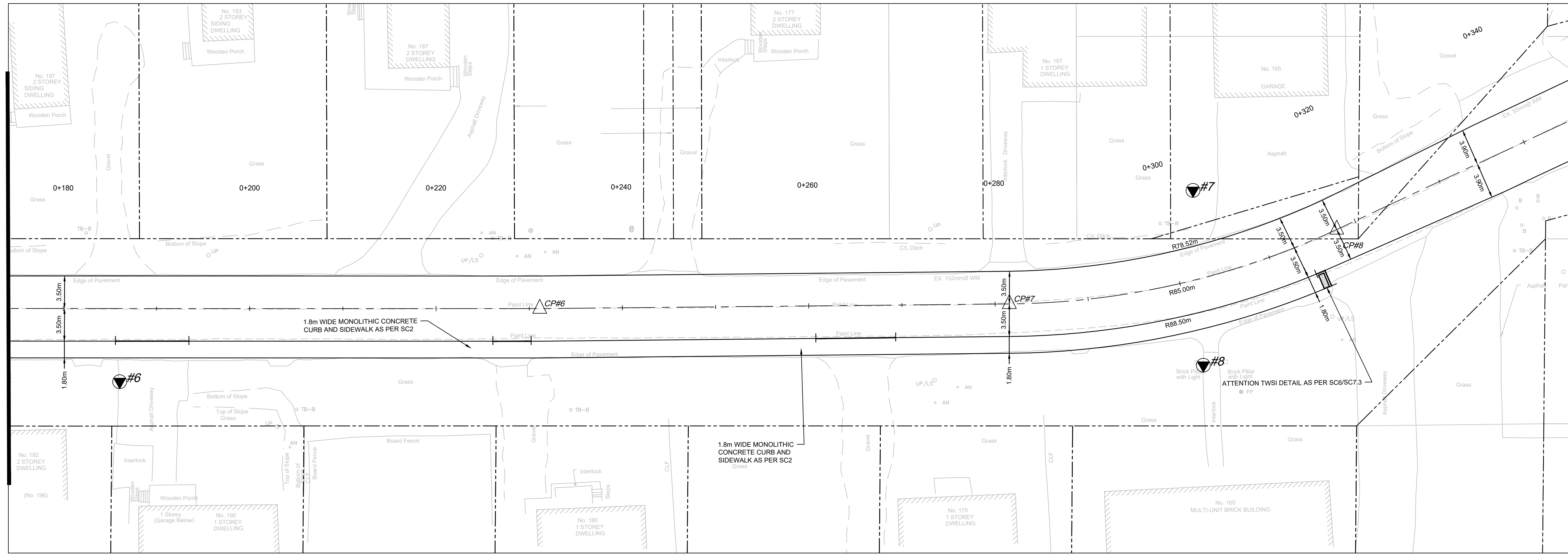
PLOT DATE: Friday, June 26, 2026 8:45:25 AM

MATCH LINE STA. 0+180  
SEE DWG NO. C02

MATCH LINE STA. 0+340  
(SEE ABOVE)

JOHN STREET

JOHN STREET



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CONSULTANT:  
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ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:  
www.jrichards.ca

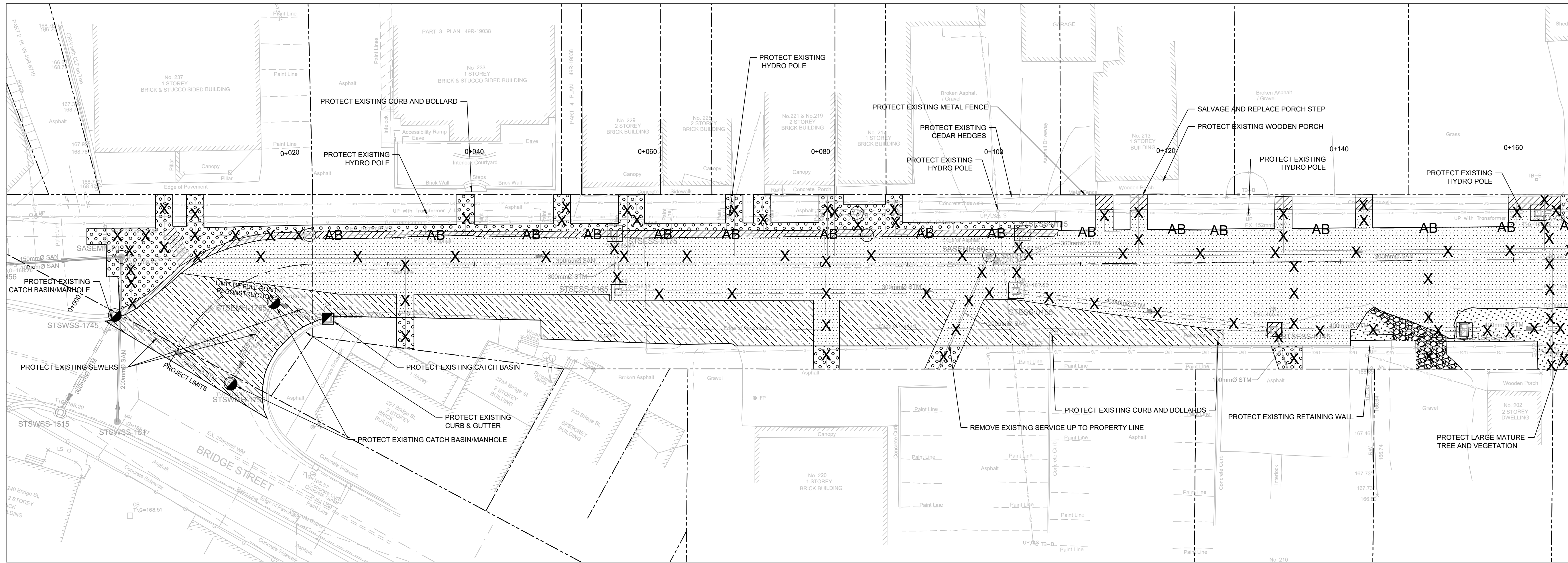
PROFESSIONAL STAMP  
PROJECT NORTH

PROJECT:  
**JOHN STREET  
SEWER AND WATERMAIN  
RECONSTRUCTION**  
EGANVILLE, ONTARIO

DRAWING:  
**JOHN STREET  
ALIGNMENT AND GEOMETRY  
0+180 - 0+502**

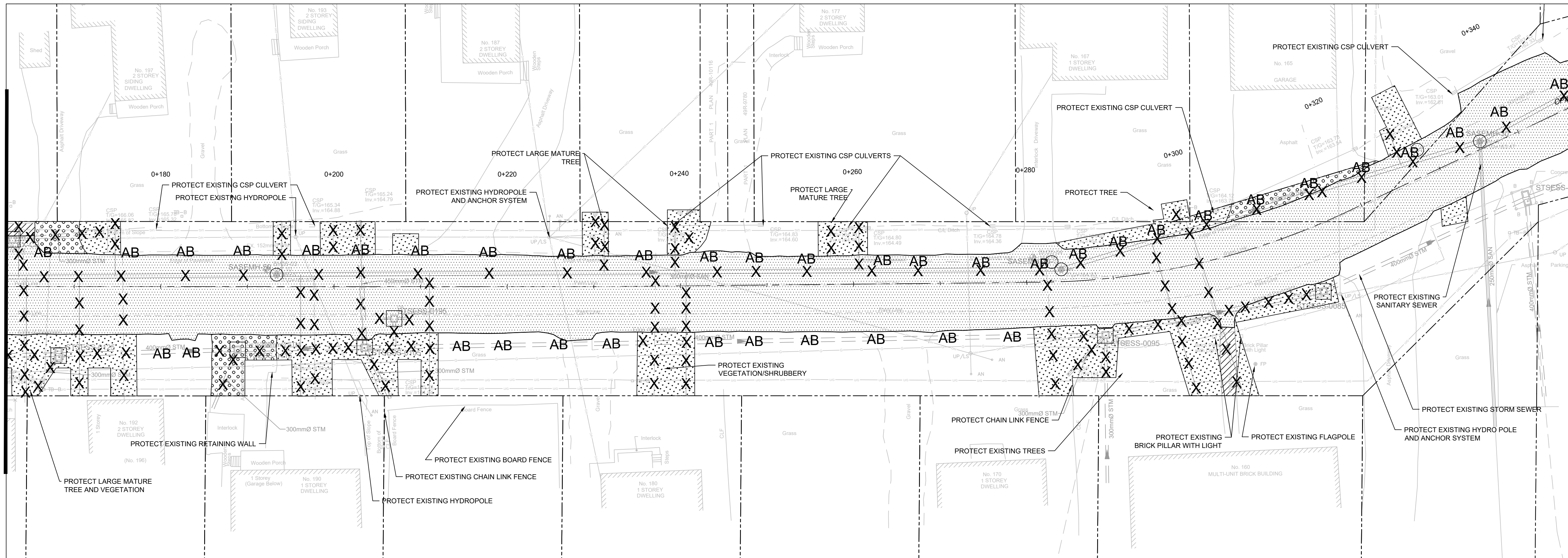
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DRAWN: DS	<b>C03</b>
CHECKED: CB/MB	
JLR #: 21981-047	

JOHN STREET



MATCH LINE STA. 0+170  
(SEE BELOW)

JOHN STREET



MATCH LINE STA. 0+340  
SEE DWG No. C05



**REMOVALS LEGEND**

- ASPHALT & GRANULAR, FULL DEPTH
- ASPHALT REMOVAL, FULL DEPTH
- ASPHALT DRIVEWAY
- GRAVEL AND SOIL
- CONCRETE
- GRASS REMOVALS
- INTERLOCK PAVERS
- REMOVE CATCH BASIN
- REMOVE MANHOLE, VALVE AND HYDRANT
- ADJUST CATCH BASIN
- ADJUST MANHOLE, VALVE
- REMOVE SEWER, WATERMAIN, AND SERVICES
- ABANDON SEWER, WATERMAIN (WITH FLOWABLE FILL CONCRETE)
- REMOVE CONCRETE CURB

No.	ISSUE / REVISION	DDMMYY
4	ISSUED FOR TENDER	26-06-26
3	ISSUED FOR DETAILED DESIGN	26-05-26
2	ISSUED FOR PRELIMINARY DESIGN	27-03-26
1	ISSUED FOR UTILITY CIRCULATION	13-02-26

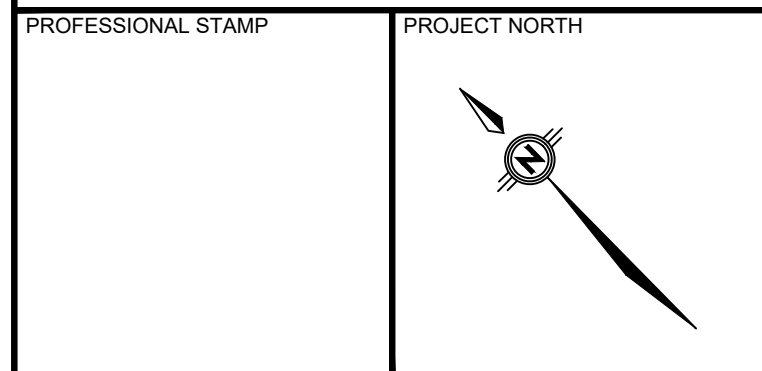
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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING. 0 25mm  
SCALE: H=1:250



CLIENT: **J.L. Richards**  
ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT: [Blank]



PROJECT: **JOHN STREET SEWER AND WATERMAIN RECONSTRUCTION**  
EGANVILLE, ONTARIO

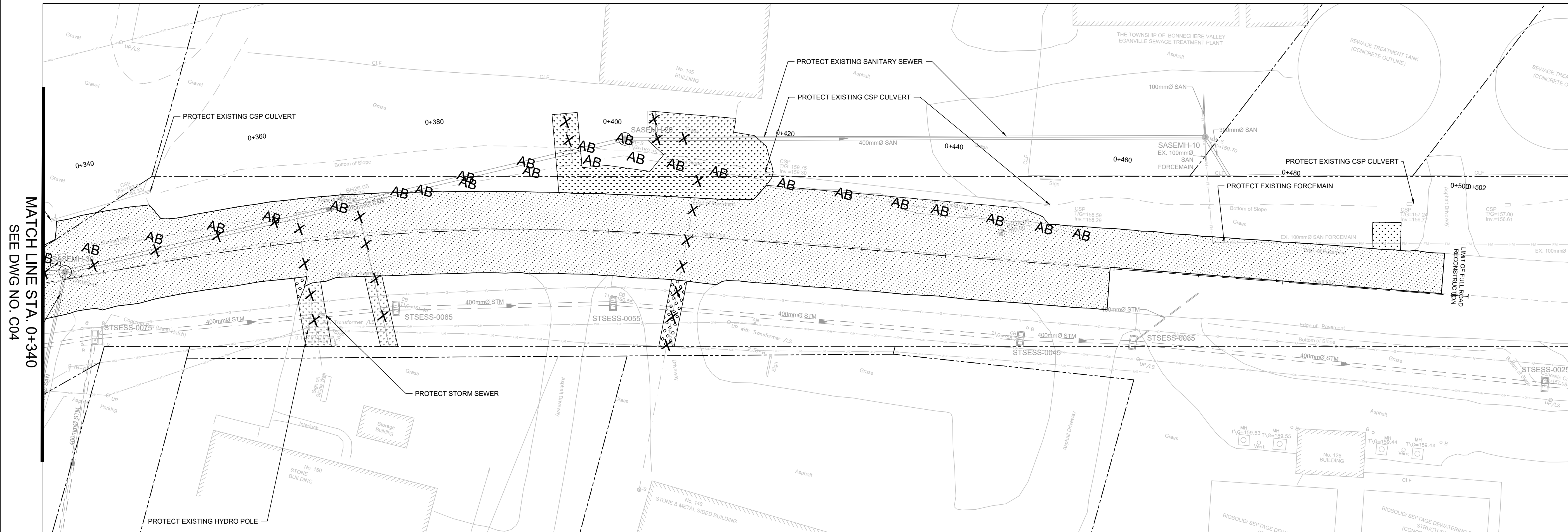
DRAWING: **JOHN STREET REMOVALS**  
0+000 - 0+340

DESIGN: DS/AP	DRAWING #:
DRAWN: DS	<b>C04</b>
CHECKED: CB/MB	
JLR #: 21981-047	

File Location: P:\21000\21981-047 - Eggenville HEVSR - John St10-Production1 - Civil\21981-047-C-RemovalsR16.dwg  
MATCH LINE STA. 0+170  
(SEE ABOVE)

PLOT DATE: Friday, June 26, 2026 10:52:45 AM

JOHN STREET



MATCH LINE STA. 0+340  
SEE DWG NO. C04



**REMOVALS LEGEND**

- ASPHALT & GRANULAR, FULL DEPTH
- ASPHALT REMOVAL, FULL DEPTH
- ASPHALT DRIVEWAY
- GRAVEL AND SOIL
- CONCRETE
- GRASS REMOVALS
- INTERLOCK PAVERS
- REMOVE CATCH BASIN
- REMOVE MANHOLE, VALVE AND HYDRANT
- ADJUST CATCH BASIN
- ADJUST MANHOLE, VALVE
- REMOVE SEWER, WATERMAIN, AND SERVICES
- ABANDON SEWER, WATERMAIN (WITH FLOWABLE FILL CONCRETE)
- REMOVE CONCRETE CURB

No.	ISSUE / REVISION	DDMMYY
4	ISSUED FOR TENDER	26-06-26
3	ISSUED FOR DETAILED DESIGN	26-05-26
2	ISSUED FOR PRELIMINARY DESIGN	27-03-26
1	ISSUED FOR UTILITY CIRCULATION	13-02-26

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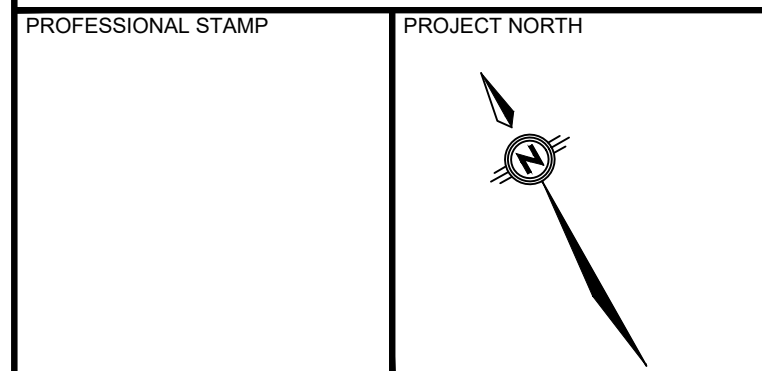
VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: H=1:250



CONSULTANT: **J.L. Richards**  
ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:

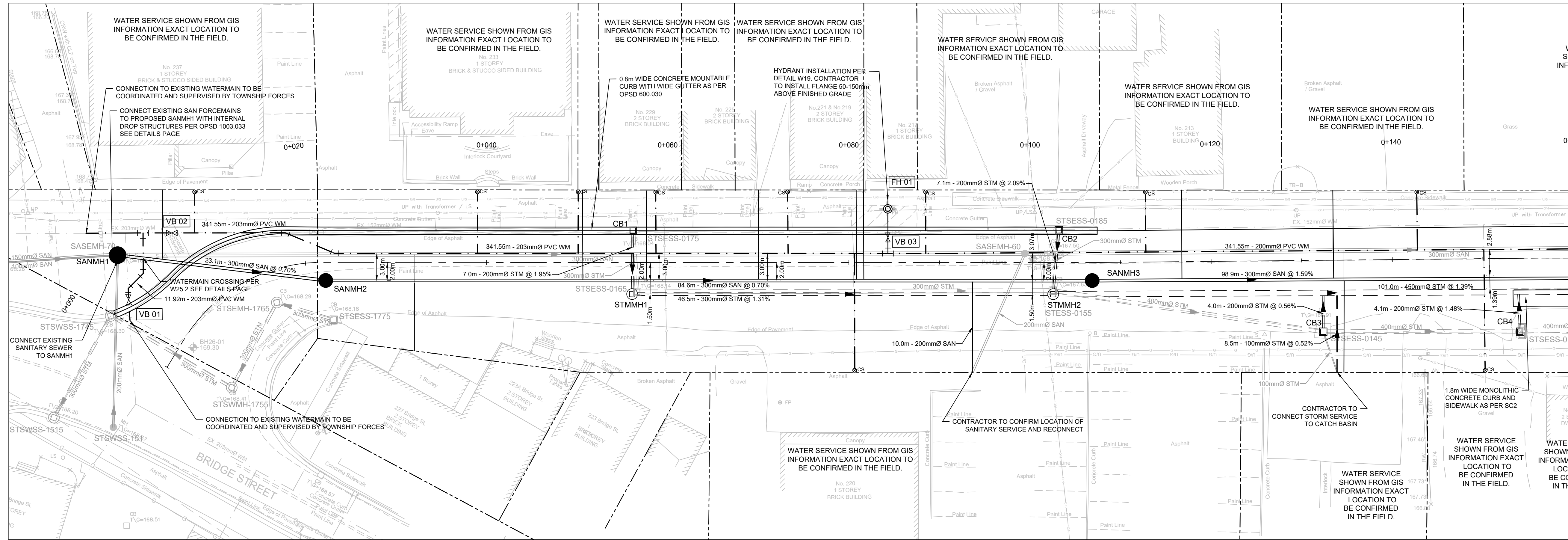


PROJECT:  
**JOHN STREET  
SEWER AND WATERMAIN  
RECONSTRUCTION**  
EGANVILLE, ONTARIO

DRAWING:  
**JOHN STREET  
REMOVALS  
0+340 - 0+502**

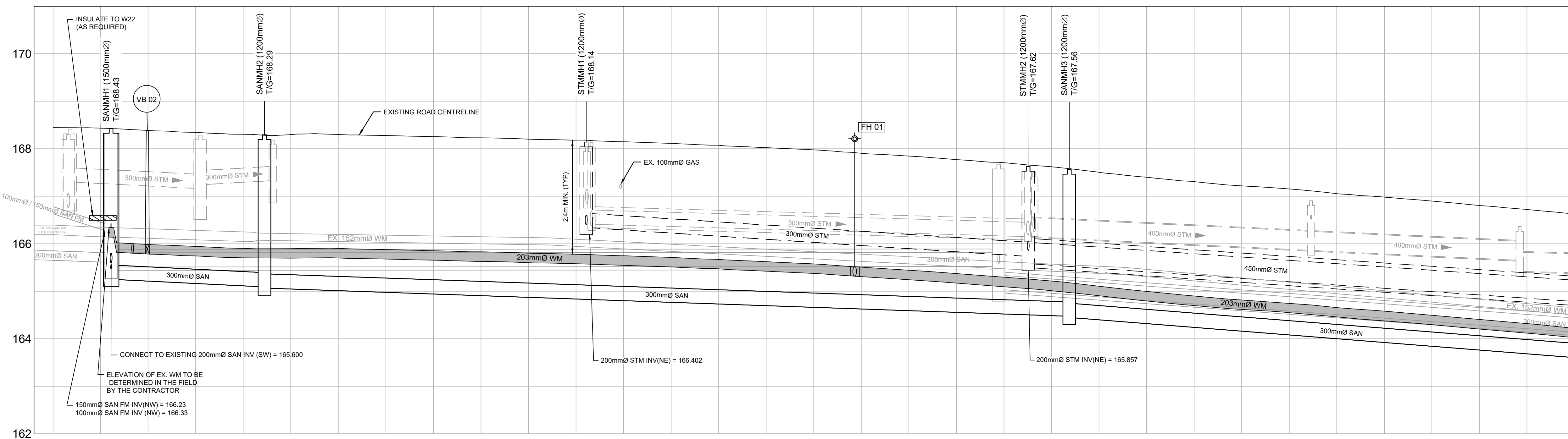
DESIGN: DS/AP	DRAWING #:
DRAWN: DS	<b>C05</b>
CHECKED: CB/MB	
JLR #: 21981-047	

JOHN STREET



MATCH LINE STA. 0+160  
SEE DWG NO. C07

JOHN STREET



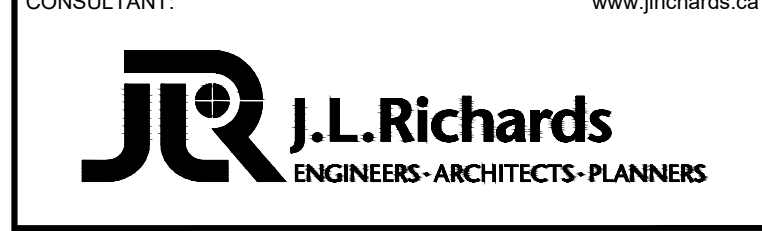
DESIGN PROFILE ELEVATIONS	168.443	168.501	168.509	168.511	168.515	168.576	168.578	168.580	168.592	168.592	168.573							
W.M. TOP ELEVATIONS	168.443	168.501	168.509	168.511	168.515	168.576	168.578	168.580	168.592	168.592	168.573							
STORM SEWER INV. ELEVATION		166.23	166.33	166.402	166.857													
SANITARY SEWER INV. ELEVATION		166.23	166.33	166.402	166.857													
C.L. ROADWAY STATION	0+00.00	0+00.11	0+00.38	0+00.92	0+01.84	0+02.00	0+02.21	0+02.24	0+04.00	0+05.07	0+08.00	0+08.31	0+10.00	0+10.59	0+10.87	0+12.00	0+14.00	0+16.00



No.	ISSUE / REVISION	DDMMYY
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3	ISSUED FOR DETAILED DESIGN	26-05-26
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1	ISSUED FOR UTILITY CIRCULATION	13-02-26

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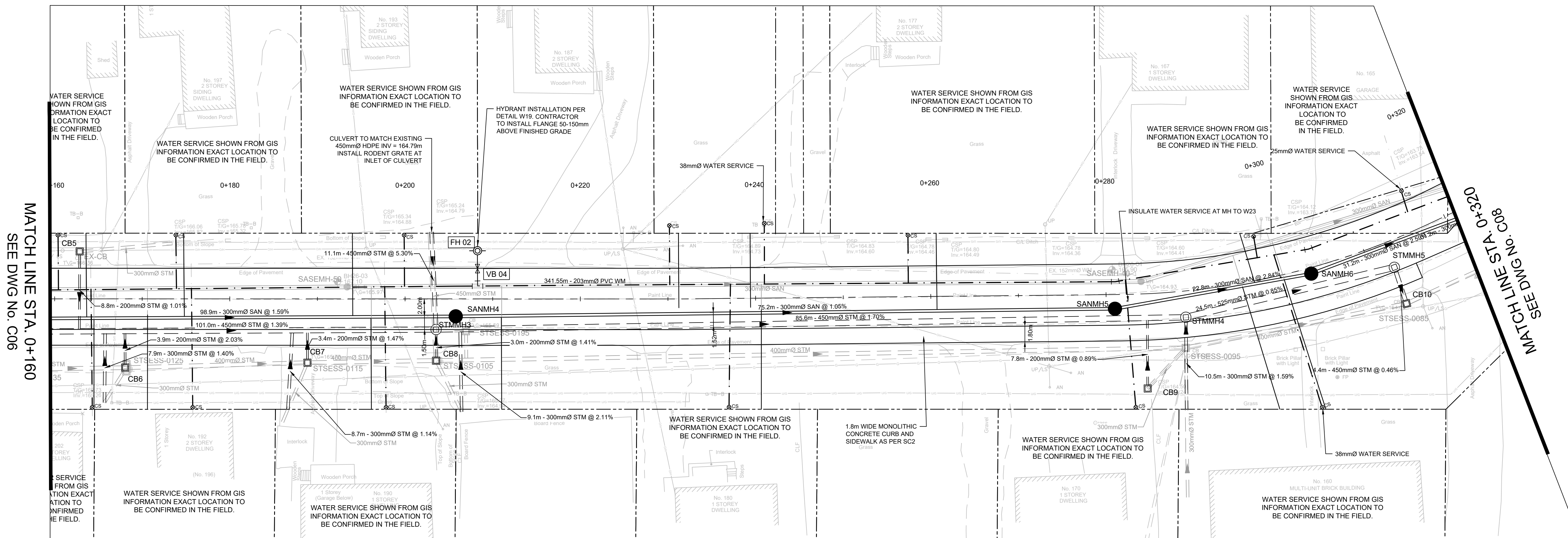
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SCALE: H=1:250, V=1:50



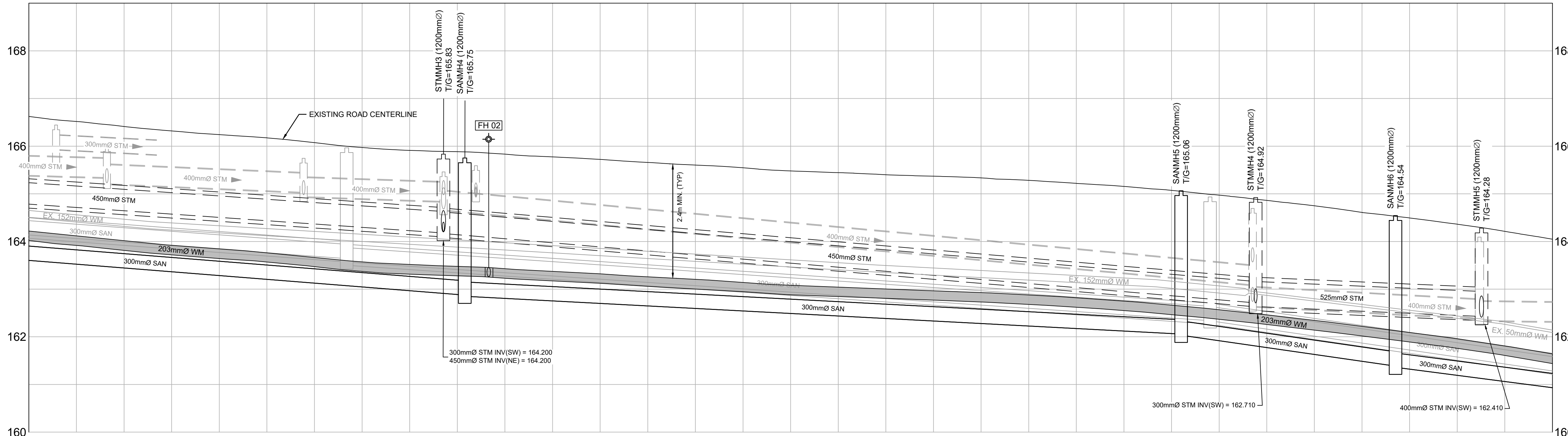
PROJECT: JOHN STREET SEWER AND WATERMAIN RECONSTRUCTION  
EGANVILLE, ONTARIO

DESIGN: DS/AP	DRAWING #:
DRAWN: DS	C06
CHECKED: CB/MB	
JLR #: 21981-047	

JOHN STREET



JOHN STREET



DESIGN PROFILE ELEVATIONS	166.573	166.243	165.914	165.584	165.254	164.924	164.594	164.264	163.934	163.604	163.274	162.944	162.614	162.284	161.954
W.M. TOP ELEVATIONS	164.220	163.847	163.518	163.188	162.858	162.528	162.198	161.868	161.538	161.208	160.878	160.548	160.218	160.888	160.558
STORM SEWER INV. ELEVATION		101.0m - 450mm <sup>2</sup> STM Conc. 100-D @ 1.39%				85.6m - 450mm <sup>2</sup> STM Conc. 100-D @ 1.70%				24.5m - 525mm <sup>2</sup> STM Conc. 100-D @ 0.85%			31.2m - 300mm <sup>2</sup> SAN PVC DR-35 @ 2.59%		
SANITARY SEWER INV. ELEVATION		98.9m - 300mm <sup>2</sup> SAN PVC DR-35 @ 1.59%				75.2m - 300mm <sup>2</sup> SAN PVC DR-35 @ 1.05%				22.8m - 300mm <sup>2</sup> SAN PVC DR-35 @ 2.84%					
C.L. ROADWAY STATION	0+160.00	0+180.00	0+200.00	0+220.00	0+240.00	0+260.00	0+280.00	0+300.00	0+320.00						

No.	ISSUE / REVISION	DDMMYY
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1	ISSUED FOR UTILITY CIRCULATION	13-02-26

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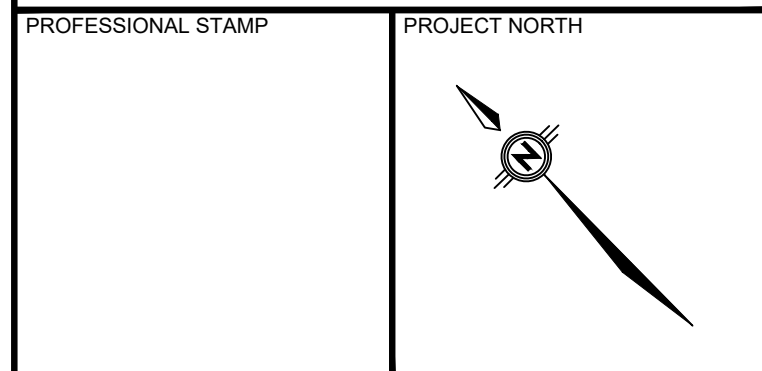
VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: H=1:250, V=1:50



CLIENT: **JLR J.L. Richards**  
ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT: **JLR J.L. Richards**  
ENGINEERS - ARCHITECTS - PLANNERS



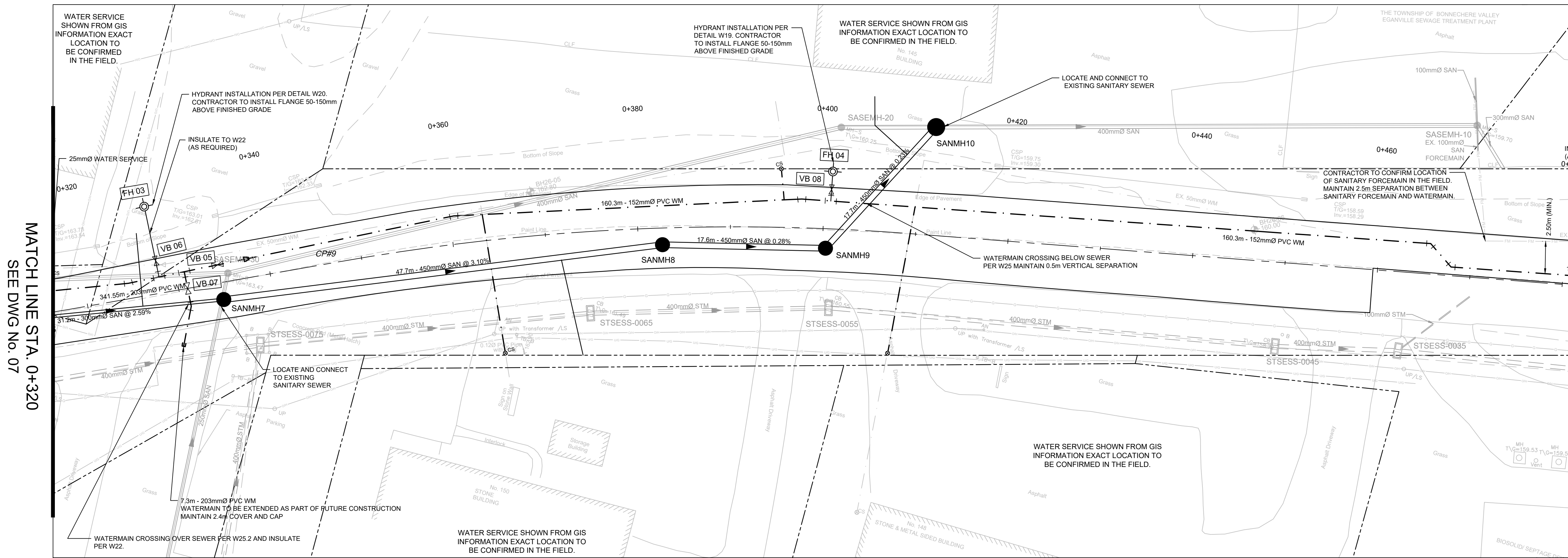
PROJECT: **JOHN STREET  
SEWER AND WATERMAIN  
RECONSTRUCTION**  
EGANVILLE, ONTARIO

DRAWING: **JOHN STREET  
PLAN AND PROFILE  
0+160 - 0+320**

DESIGN: DS/AP  
DRAWN: DS  
CHECKED: CB/MB  
JLR #: 21981-047

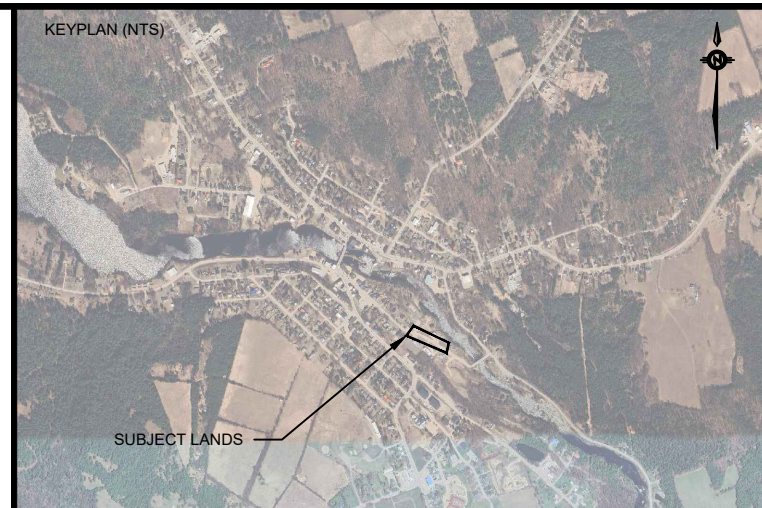
DRAWING #: **C07**

JOHN STREET



MATCH LINE STA. 0+320  
SEE DWG No. 07

MATCH LINE STA. 0+480  
SEE DWG No. C09



No.	ISSUE / REVISION	DDMMYY
4	ISSUED FOR TENDER	26-06-26
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1	ISSUED FOR UTILITY CIRCULATION	13-02-26

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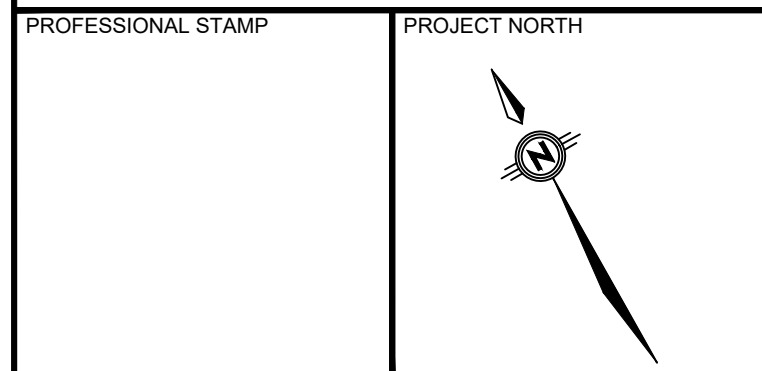
VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: H=1:250, V=1:50



CONSULTANT:  
**JLR J.L. Richards**  
ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:



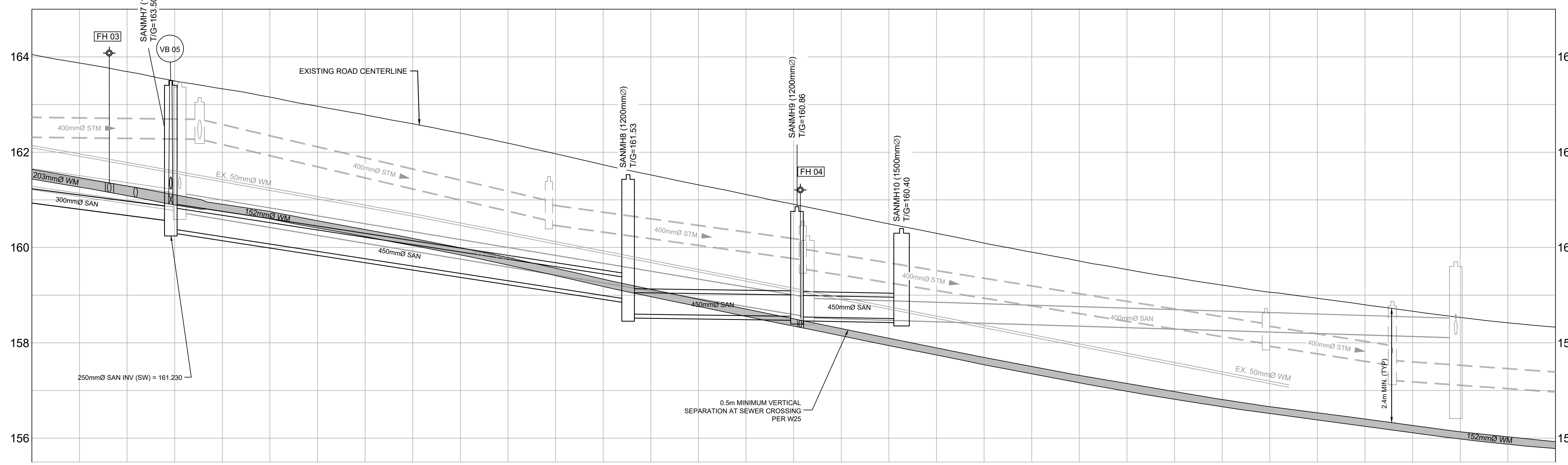
PROJECT:  
**JOHN STREET  
SEWER AND WATERMAIN  
RECONSTRUCTION**  
EGANVILLE, ONTARIO

DRAWING:  
**JOHN STREET  
PLAN AND PROFILE  
0+320 - 0+480**

DESIGN: DS/AP  
DRAWN: DS  
CHECKED: CB/MB  
JLR #: 21981-047

DRAWING #:  
**C08**

JOHN STREET



DESIGN PROFILE ELEVATIONS	164.045	162.59	161.724	160.087	158.364	156.326																		
W.M. TOP ELEVATIONS	161.640	161.475	161.259	159.447	158.402	156.253																		
STORM SEWER INV. ELEVATION	161.475	161.259	159.447	158.402	156.253	156.189																		
SANITARY SEWER INV. ELEVATION	161.259	160.906	158.475	157.695	156.402	156.189																		
C.L. ROADWAY STATION	0+320.00	0+324.75	0+328.13	0+330.90	0+334.59	0+335.67	0+337.75	0+340.00	0+360.00	0+377.61	0+380.00	0+382.62	0+385.64	0+397.76	0+400.00	0+400.70	0+411.33	0+420.00	0+440.00	0+460.00	0+465.51	0+467.89	0+480.00	
		31.2m - 300mm <sup>2</sup> SAN PVC DR-35 @ 2.59%			47.7m - 450mm <sup>2</sup> SAN Conc. 100-D @ 3.10%					17.6m - 450mm <sup>2</sup> SAN Conc. 100-D @ 0.28%				17.7m - 450mm <sup>2</sup> SAN Conc. 100-D @ 0.23%										

File Location: P:\12\000\1981-047 - Eganville HEVSEF - John St\10-Production\1-Civil\2-1981-047-C-PNPR.dwg

PLOT DATE: Friday, June 26, 2026 11:53:01 AM



No.	ISSUE / REVISION	DDMMYY
4	ISSUED FOR TENDER	26-06-26
3	ISSUED FOR DETAILED DESIGN	26-05-26
2	ISSUED FOR PRELIMINARY DESIGN	27-03-26
1	ISSUED FOR UTILITY CIRCULATION	13-02-26

STORM STRUCTURE TABLE																																										
<table border="1"> <thead> <tr> <th>STRUCTURE NAME</th> <th>STATION</th> <th>OFFSET</th> <th>T/GRATE</th> <th>INVERTS</th> <th>COVER</th> <th>STRUCTURE</th> </tr> </thead> <tbody> <tr> <td>STMMH1</td> <td>0+056.07</td> <td>3.496m R</td> <td>168.140m</td> <td>200.00mm Ø NE INV = 166.40m 300.00mm Ø SE INV = 166.34m</td> <td>OPSD 401.040</td> <td>OPSD 701.010</td> </tr> <tr> <td>STMMH2</td> <td>0+102.56</td> <td>3.500m R</td> <td>167.625m</td> <td>300.00mm Ø NW INV = 165.73m 450.00mm Ø SE INV = 165.58m 200.00mm Ø NE INV = 165.86m</td> <td>OPSD 401.040</td> <td>OPSD 701.010</td> </tr> <tr> <td>STMMH3</td> <td>0+203.54</td> <td>3.500m R</td> <td>165.831m</td> <td>450.00mm Ø NW INV = 164.18m 200.00mm Ø SW INV = 164.21m 450.00mm Ø NE INV = 164.20m 450.00mm Ø SE INV = 164.17m</td> <td>OPSD 401.040</td> <td>OPSD 701.010</td> </tr> <tr> <td>STMMH4</td> <td>0+288.84</td> <td>3.001m R</td> <td>164.922m</td> <td>450.00mm Ø NW INV = 162.71m 300.00mm Ø SW INV = 162.71m 525.00mm Ø SE INV = 162.64m</td> <td>OPSD 401.040</td> <td>OPSD 701.010</td> </tr> <tr> <td>STMMH5</td> <td>0+312.55</td> <td>3.003m R</td> <td>164.280m</td> <td>450.00mm Ø SW INV = 162.41m 525.00mm Ø NW INV = 162.43m</td> <td>OPSD 401.040</td> <td>OPSD 701.010</td> </tr> </tbody> </table>	STRUCTURE NAME	STATION	OFFSET	T/GRATE	INVERTS	COVER	STRUCTURE	STMMH1	0+056.07	3.496m R	168.140m	200.00mm Ø NE INV = 166.40m 300.00mm Ø SE INV = 166.34m	OPSD 401.040	OPSD 701.010	STMMH2	0+102.56	3.500m R	167.625m	300.00mm Ø NW INV = 165.73m 450.00mm Ø SE INV = 165.58m 200.00mm Ø NE INV = 165.86m	OPSD 401.040	OPSD 701.010	STMMH3	0+203.54	3.500m R	165.831m	450.00mm Ø NW INV = 164.18m 200.00mm Ø SW INV = 164.21m 450.00mm Ø NE INV = 164.20m 450.00mm Ø SE INV = 164.17m	OPSD 401.040	OPSD 701.010	STMMH4	0+288.84	3.001m R	164.922m	450.00mm Ø NW INV = 162.71m 300.00mm Ø SW INV = 162.71m 525.00mm Ø SE INV = 162.64m	OPSD 401.040	OPSD 701.010	STMMH5	0+312.55	3.003m R	164.280m	450.00mm Ø SW INV = 162.41m 525.00mm Ø NW INV = 162.43m	OPSD 401.040	OPSD 701.010
STRUCTURE NAME	STATION	OFFSET	T/GRATE	INVERTS	COVER	STRUCTURE																																				
STMMH1	0+056.07	3.496m R	168.140m	200.00mm Ø NE INV = 166.40m 300.00mm Ø SE INV = 166.34m	OPSD 401.040	OPSD 701.010																																				
STMMH2	0+102.56	3.500m R	167.625m	300.00mm Ø NW INV = 165.73m 450.00mm Ø SE INV = 165.58m 200.00mm Ø NE INV = 165.86m	OPSD 401.040	OPSD 701.010																																				
STMMH3	0+203.54	3.500m R	165.831m	450.00mm Ø NW INV = 164.18m 200.00mm Ø SW INV = 164.21m 450.00mm Ø NE INV = 164.20m 450.00mm Ø SE INV = 164.17m	OPSD 401.040	OPSD 701.010																																				
STMMH4	0+288.84	3.001m R	164.922m	450.00mm Ø NW INV = 162.71m 300.00mm Ø SW INV = 162.71m 525.00mm Ø SE INV = 162.64m	OPSD 401.040	OPSD 701.010																																				
STMMH5	0+312.55	3.003m R	164.280m	450.00mm Ø SW INV = 162.41m 525.00mm Ø NW INV = 162.43m	OPSD 401.040	OPSD 701.010																																				

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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING. 0 25mm

SCALE: H=1:250, V=1:50



CONSULTANT: **J.L. Richards**  
ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT: [Blank]

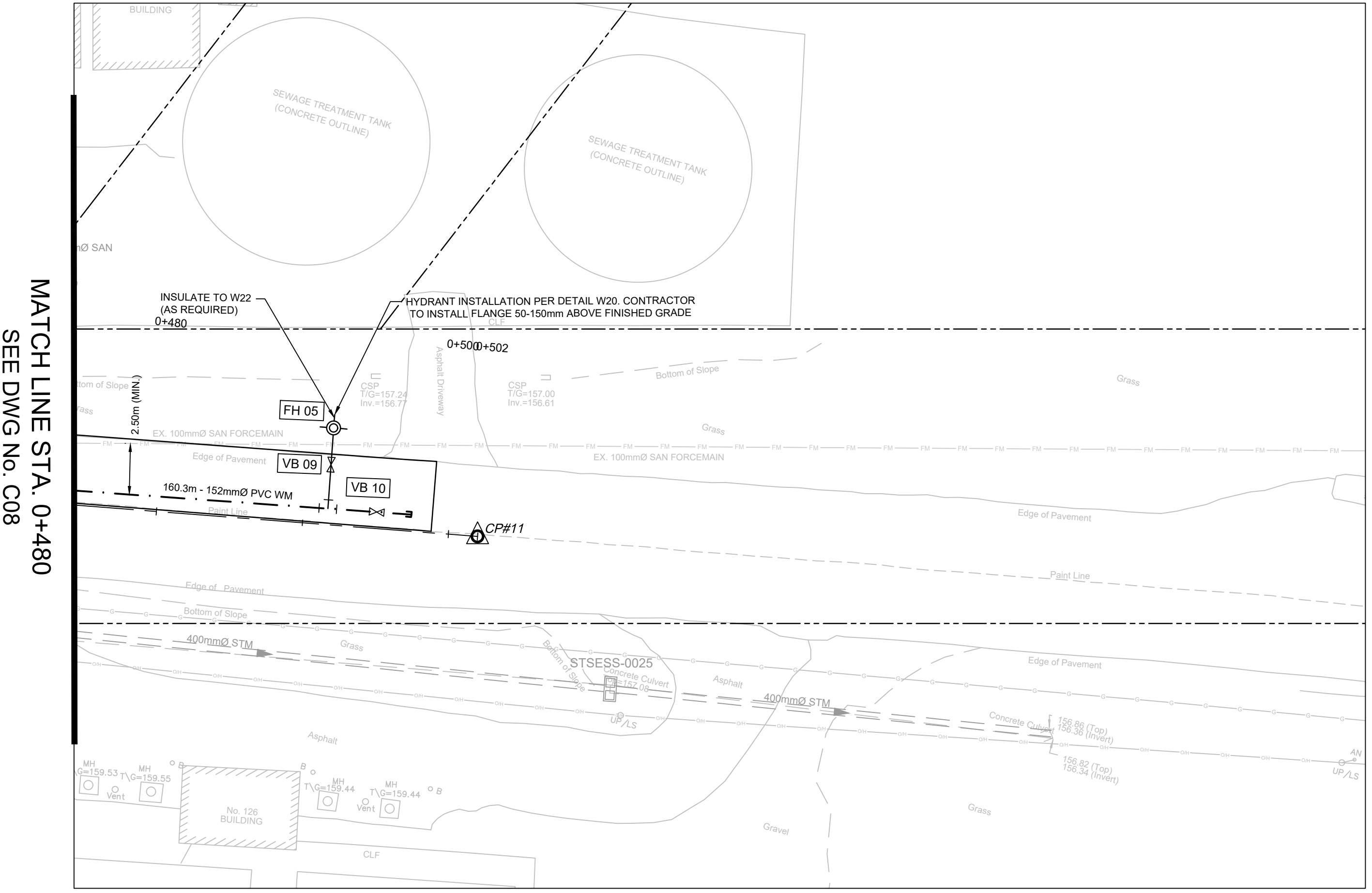
PROFESSIONAL STAMP [Blank] PROJECT NORTH [North Arrow]

PROJECT: **JOHN STREET SEWER AND WATERMAIN RECONSTRUCTION**  
EGANVILLE, ONTARIO

DRAWING: **JOHN STREET PLAN AND PROFILE 0+480 - 0+502**

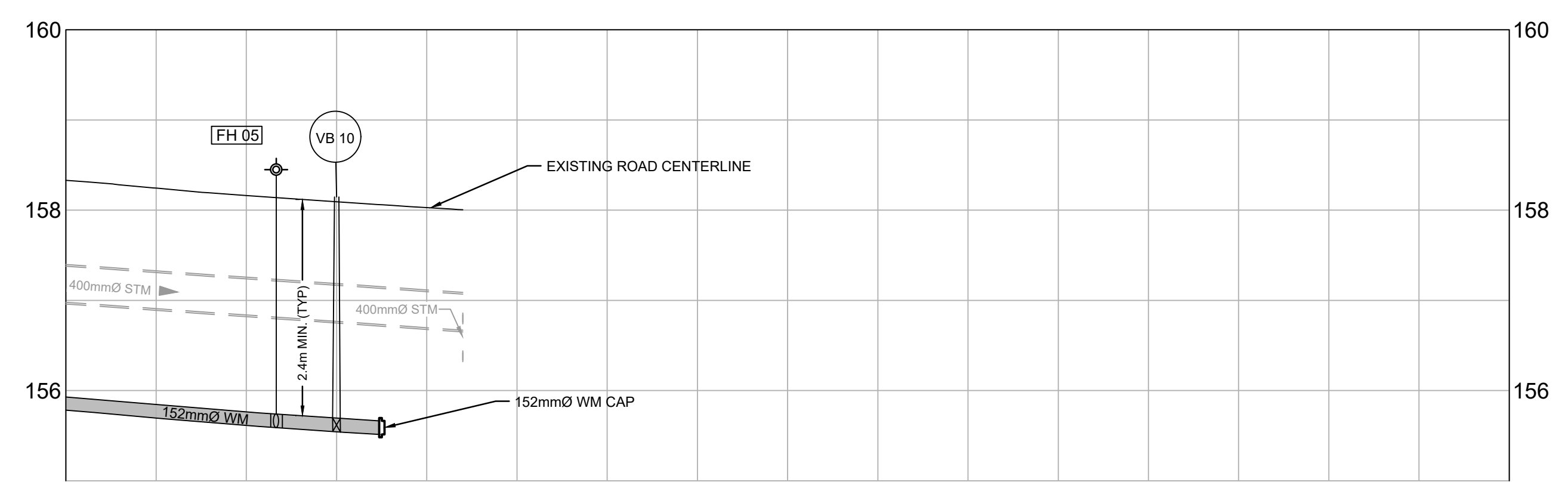
DESIGN: DS/AP  
DRAWN: DS  
CHECKED: CB/MB  
JLR #: 21981-047  
DRAWING #: **C09**

JOHN STREET



MATCH LINE STA. 0+480  
SEE DWG NO. C08

JOHN STREET

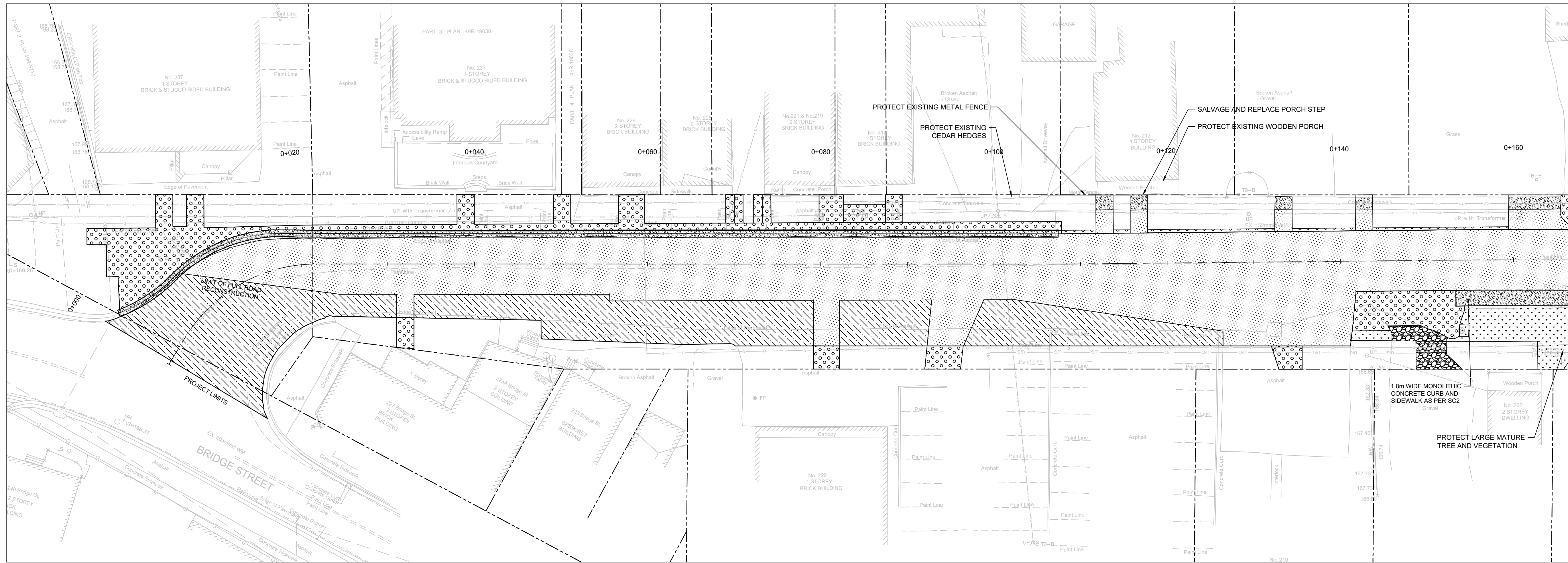


DESIGN PROFILE ELEVATIONS	156.326						
W.M. TOP ELEVATIONS	155.929	155.795 HYDRANT AND VALVE 152mmØ x 452mmØ TEE	155.695 152mmØ VALVE & BOX	155.665 CAP	158.014		
STORM SEWER INV. ELEVATION							
SANITARY SEWER INV. ELEVATION							
C.L. ROADWAY STATION	0+480.00	0+491.65	0+495.00	0+497.36	0+500.00	0+500.00	0+500.00

STRUCTURE NAME	STATION	OFFSET	T/GRATE	INVERTS	COVER	STRUCTURE	LENGTH
CB1	0+056.14	-3.503m L	168.135m	200.00mm Ø SW INV = 166.54m	OPSD 400.030	OPSD 705.010	7.001
CB2	0+103.19	-3.554m L	167.505m	200.00mm Ø SW INV = 166.00m	OPSD 400.030	OPSD 705.010	7.084
CB3	0+132.30	7.888m R	166.906m	200.00mm Ø NE INV = 165.24m	OPSD 400.020	OPSD 705.010	3.974
CB4	0+154.04	8.098m R	166.341m	200.00mm Ø NE INV = 164.96m	OPSD 403.010	OPSD 705.030	4.104
CB5	0+162.86	-5.417m L	166.355m	200.00mm Ø SW INV = 164.98m	OPSD 400.020	OPSD 705.010	8.841
CB6	0+168.06	7.843m R	165.968m	200.00mm Ø NE INV = 164.80m	OPSD 403.010	OPSD 705.030	3.878
CB7	0+188.86	7.290m R	165.902m	200.00mm Ø NE INV = 164.50m	OPSD 400.020	OPSD 705.010	3.409
CB8	0+203.56	7.050m R	165.439m	200.00mm Ø NE INV = 164.25m	OPSD 403.010	OPSD 705.030	2.963
CB9	0+284.29	10.809m R	163.470m	200.00mm Ø NE INV = 162.87m	OPSD 403.010	OPSD 705.030	7.779
CB10	0+312.33	7.368m R	164.092m	450.00mm Ø NE INV = 162.39m	OPSD 400.030	OPSD 705.010	4.371

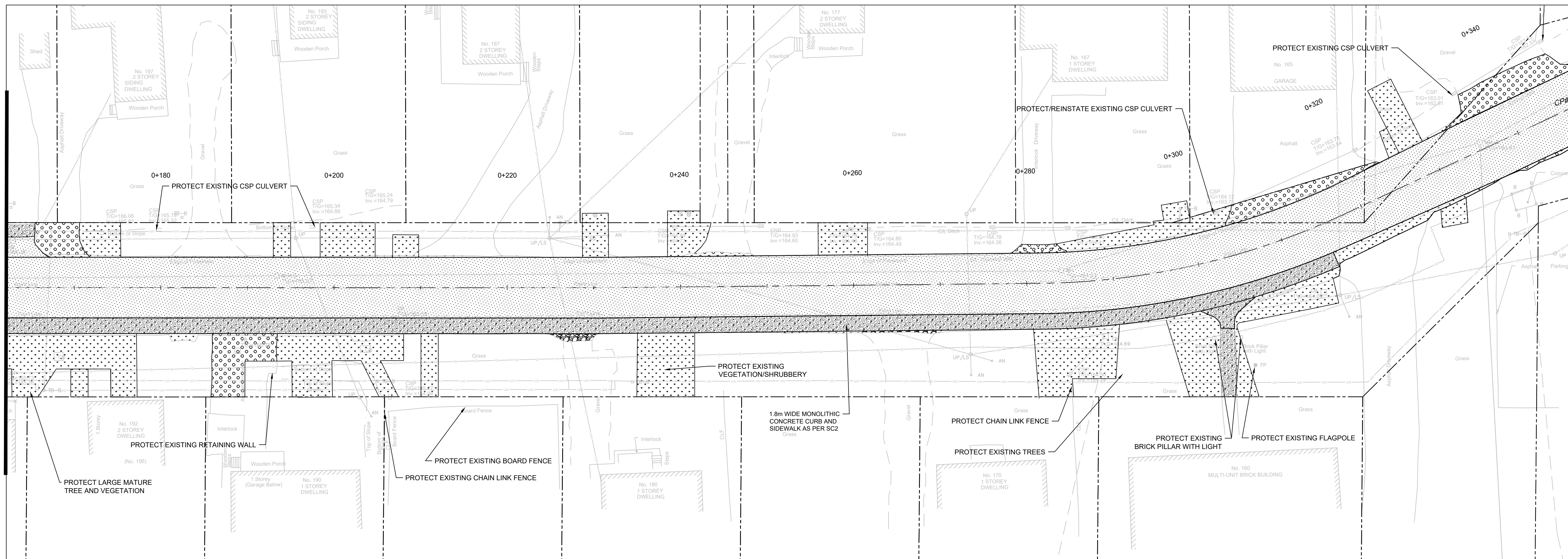
STRUCTURE NAME	STATION	OFFSET	T/GRATE	INVERTS	COVER	STRUCTURE
SANMH1	0+006.11	-11.398m L	168.428m	300.00mm Ø SE INV = 165.25 150mmØ NW INV = 166.23 100mmØ NW INV = 166.33 200mmØ SW INV = 165.6	OPSD 401.040	OPSD 701.011
SANMH2	0+022.24	1.993m R	168.294m	300.00mmØ NW INV = 165.09 300.00mmØ SE INV = 165.07	OPSD 401.040	OPSD 701.010
SANMH3	0+106.87	2.000m R	167.564m	300.00mmØ SE INV = 164.45 300.00mmØ NW INV = 164.47	OPSD 401.040	OPSD 701.010
SANMH4	0+205.78	2.000m R	165.753m	300.00mmØ SE INV = 162.85 300.00mmØ NW INV = 162.88	OPSD 401.040	OPSD 701.010
SANMH5	0+281.01	1.624m R	165.064m	300.00mmØ SE INV = 162.03 300.00mmØ NW INV = 162.06	OPSD 401.040	OPSD 701.010
SANMH6	0+303.52	0.692m R	164.542m	300.00mm Ø SE INV = 161.36 300.00mm Ø NW INV = 161.39	OPSD 401.040	OPSD 701.010
SANMH7	0+334.59	1.861m R	163.502m	300.00mmØ NW INV = 160.55 450.00mm Ø E INV = 160.39 250.00mm Ø SW INV = 161.23	OPSD 401.040	OPSD 701.010
SANMH8	0+382.62	1.810m R	161.530m	450.00mmØ W INV = 158.91 450.00mm Ø SE INV = 158.60	OPSD 401.040	OPSD 701.010
SANMH9	0+400.35	2.117m R	160.857m	450.00mmØ NW INV = 158.56 450.00mm Ø E INV = 158.54	OPSD 401.040	OPSD 701.010
SANMH10	0+411.33	-11.672m L	160.400m	450.00mmØ W INV = 158.50	OPSD 401.040	OPSD 701.011

JOHN STREET



MATCH LINE STA. 0+170  
(SEE BELOW)

JOHN STREET



MATCH LINE STA. 0+340  
(SEE DWG No. C11)



**REINSTATEMENT LEGEND**

- ASPHALT & GRANULAR FULL DEPTH
- ASPHALT PAVEMENT, (50mm SP12.5, 70mm SP19)
- ASPHALT DRIVEWAY/ENTRANCE/WALKWAY
- CONCRETE
- LANDSCAPING - TOPSOIL AND SOD
- LANDSCAPING - TOPSOIL AND SEED
- MISCELLANEOUS LANDSCAPING (PRIVATE GARDENS, SHRUBS, PERENNIALS)
- GRAVEL AND SOIL

No.	ISSUE / REVISION	DDMMYY
4	ISSUED FOR TENDER	26-06-26
3	ISSUED FOR DETAILED DESIGN	26-05-26
2	ISSUED FOR PRELIMINARY DESIGN	27-03-26
1	ISSUED FOR UTILITY CIRCULATION	13-02-26

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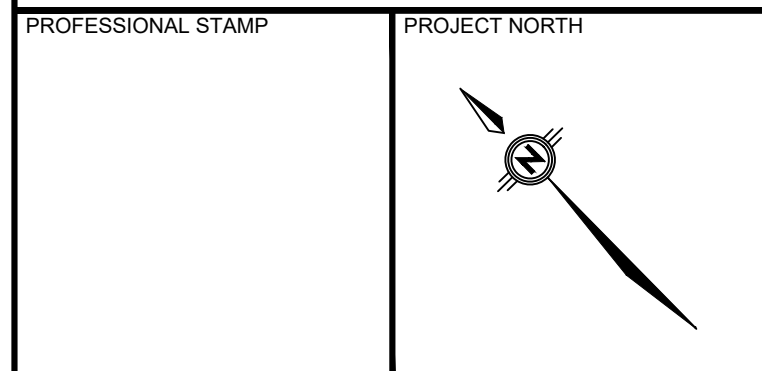
VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING. 0 25mm

SCALE: H=1:250



CLIENT: **J.L. Richards**  
ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT: **J.L. Richards**  
www.jrichards.ca



PROJECT: **JOHN STREET SEWER AND WATERMAIN RECONSTRUCTION**  
EGANVILLE, ONTARIO

DRAWING: **JOHN STREET REINSTATEMENT**  
0+000 - 0+340

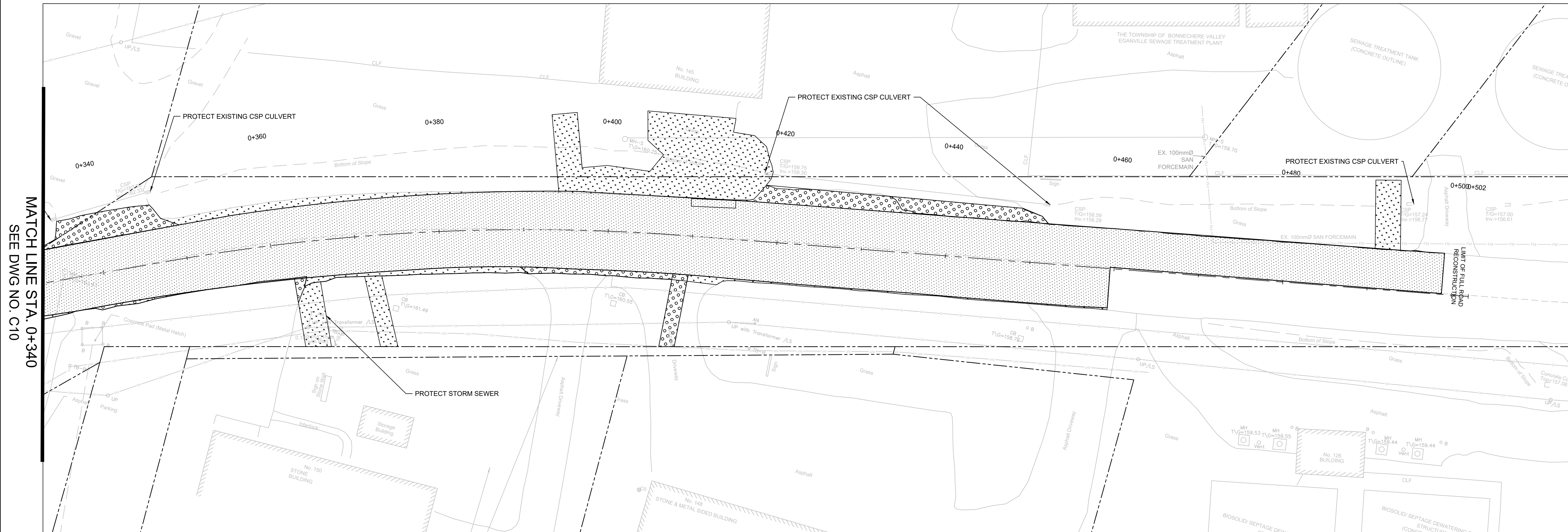
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DRAWN: DS	<b>C10</b>
CHECKED: CB/MB	
JLR # 21981-047	

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MATCH LINE STA. 0+170  
(SEE ABOVE)

PLOT DATE: Friday, June 26, 2026 12:07 PM

JOHN STREET



MATCH LINE STA. 0+340  
SEE DWG NO. C-10



REINSTATEMENT LEGEND

- ASPHALT & GRANULAR FULL DEPTH
- ASPHALT PAVEMENT, (50mm SP12.5, 70mm SP19)
- ASPHALT DRIVEWAY/ENTRANCE/WALKWAY
- CONCRETE
- LANDSCAPING - TOPSOIL AND SOD
- LANDSCAPING - TOPSOIL AND SEED
- MISCELLANEOUS LANDSCAPING (PRIVATE GARDENS, SHRUBS, PERENNIALS)
- GRAVEL AND SOIL

No.	ISSUE / REVISION	DDMMYY
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No.	ISSUE / REVISION	DDMMYY

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SCALE: H=1:250



CONSULTANT: **JLR J.L. Richards**  
ENGINEERS - ARCHITECTS - PLANNERS  
www.jrichards.ca

CONSULTANT:

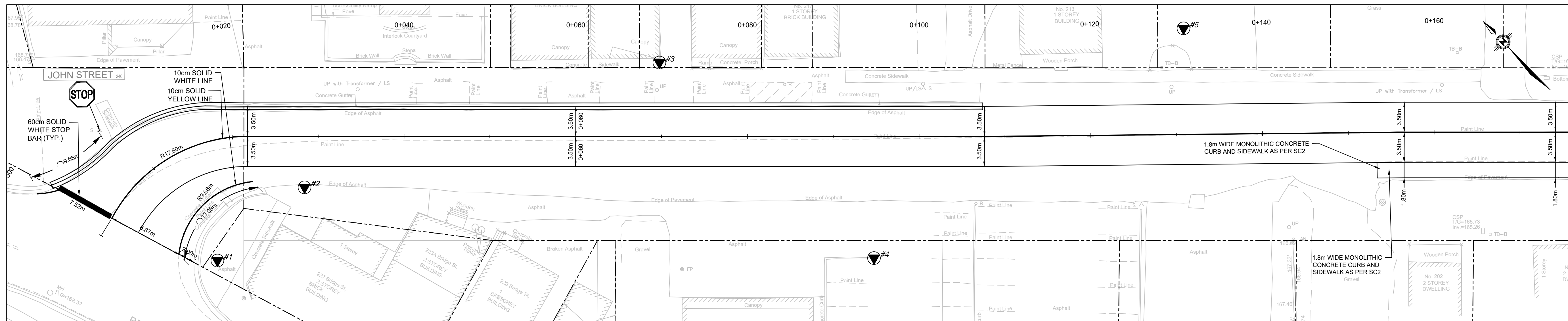
PROFESSIONAL STAMP PROJECT NORTH

PROJECT: **JOHN STREET SEWER AND WATERMAIN RECONSTRUCTION**  
EGANVILLE, ONTARIO

DRAWING: **JOHN STREET REINSTATEMENT**  
0+340 - 0+502

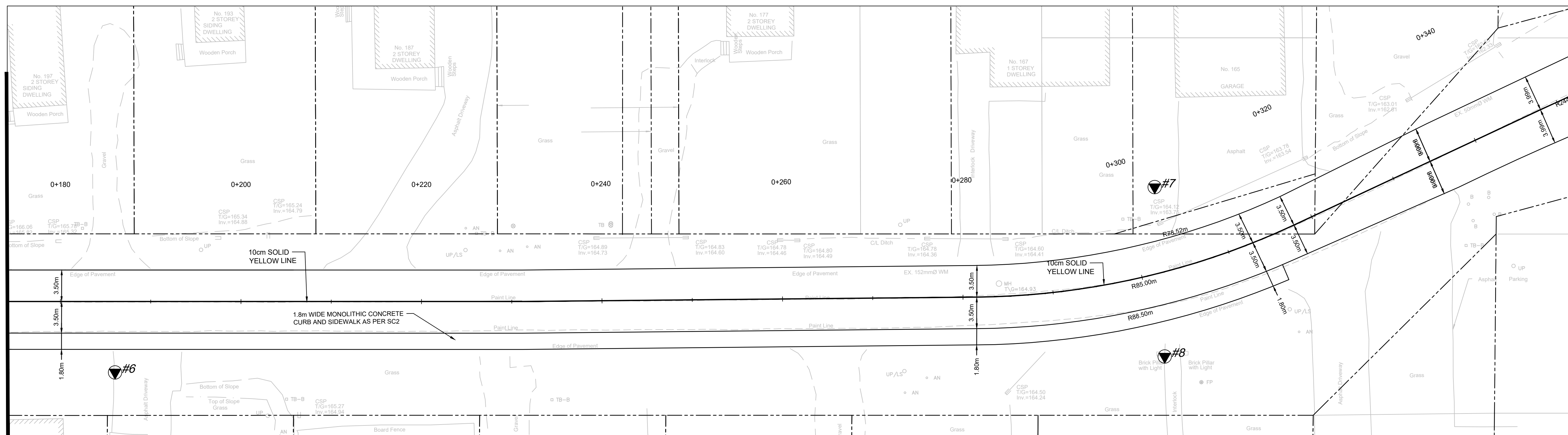
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DRAWN: DS	<b>C11</b>
CHECKED: CB/MB	
JLR #: 21981-047	

JOHN STREET



MATCH LINE STA. 0+180  
SEE DWG No. C03

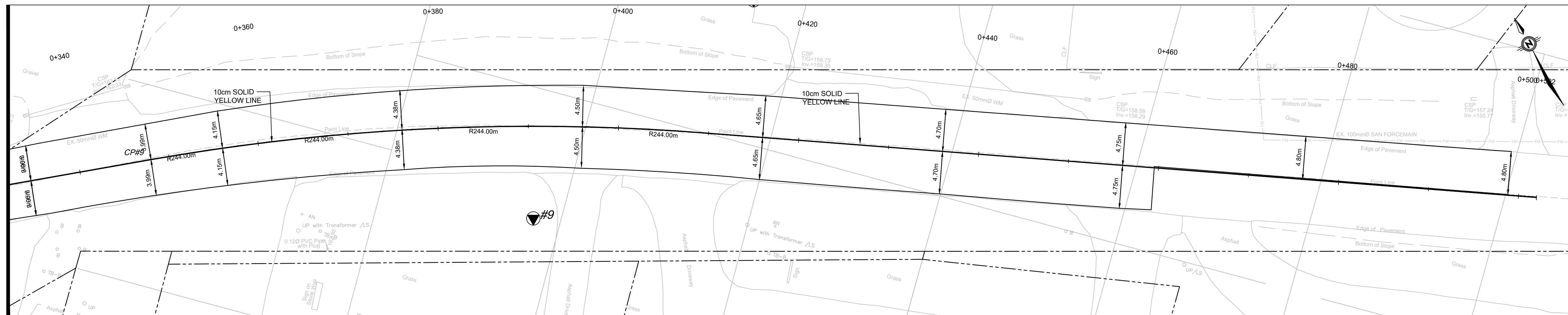
JOHN STREET



MATCH LINE STA. 0+180  
SEE DWG No. C02

MATCH LINE STA. 0+340  
(SEE BELOW)

JOHN STREET



MATCH LINE STA. 0+340  
(SEE ABOVE)



No.	ISSUE / REVISION	DDMMYY
4	ISSUED FOR TENDER	26-06-26
3	ISSUED FOR DETAILED DESIGN	26-05-26
2	ISSUED FOR PRELIMINARY DESIGN	27-03-26
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SCALE: H=1:250



CONSULTANT:  
**JLR J.L. Richards**  
ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:

PROFESSIONAL STAMP PROJECT NORTH

PROJECT:  
**JOHN STREET  
SEWER AND WATERMAIN  
RECONSTRUCTION**  
EGANVILLE, ONTARIO

DRAWING:  
**JOHN STREET  
PAVEMENT MARKINGS  
& SIGNAGE  
0+000 - 0+502**

DESIGN: DS/AP  
DRAWN: DS  
CHECKED: CB/MB  
JLR #: 21981-047

DRAWING #:  
**C12**

**LEGEND:**  
S - Rate of pavement super-elevation in percent, %.

**NOTES:**  
1 When curb and gutter is adjacent to concrete pavement or base, this drawing shall be used in conjunction with OPSD 552.010 and 552.020.  
2 Flexible and composite pavement shall be placed 5mm above the adjacent edge of gutter.  
3 For sloping procedure a 5% batter is acceptable.  
A Treatment at entrances shall be according to OPSD 351.010.  
B Outlet treatment shall be according to the OPSD 610 Series.  
C The transition from one curb type to another shall be a minimum length of 3.0m, except in conjunction with guide rail where it shall be according to the OPSD 900 Series.  
D All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2012 Rev 2  
**CONCRETE MOUNTABLE CURB WITH WIDE GUTTER**  
OPSD 600.030

**NOTES:**  
1 Outlet hole size 525mm maximum diameter, location as required.  
A Where inlet is placed across ditch and is accessible to vehicular traffic, grating slope shall be 6H:1V or flatter.  
B Center reinforcing in wall and slab 425mm.  
C Granular backfill shall be placed to a minimum thickness of 300mm all around the ditch inlet.  
D Grating shall be according to OPSD 403.010.  
E Pipe support shall be according to OPSD 708.020.  
F All dimensions are nominal.  
G All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2019 Rev 4  
**PRECAST CONCRETE DITCH INLET 600 x 600mm**  
OPSD 705.030

**NOTES:**  
1 For ramp detail, see OPSD 701.010.  
A Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.  
B Precast concrete components shall be according to OPSD 701.030, 701.031, 701.031, 701.041, 703.011, 703.021, and 706.010.  
C Structures exceeding 5.0m in depth shall include safety platform according to OPSD 404.020 or 404.021.  
D Pipe support shall be according to OPSD 708.020.  
E For benching and pipe opening details, see OPSD 701.021.  
F For adjustment unit and frame installation, see OPSD 704.010.  
G All dimensions are nominal.  
H All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2014 Rev 5  
**PRECAST CONCRETE MAINTENANCE HOLE 1500mm DIAMETER**  
OPSD 701.011

**NOTES:**  
1 Outlet hole size 525mm diameter maximum, location as required.  
2 200mm diameter knockout to accommodate subdrain, knockout shall be 60mm deep.  
E All dimensions are nominal.  
A Center reinforcing in base slab and walls 320mm.  
B Granular backfill shall be placed to a minimum thickness of 300mm all around the catch basin.  
C Frame, grate, and adjustment unit shall be installed according to OPSD 704.010.  
D Pipe support shall be according to OPSD 708.020.  
E All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2019 Rev 4  
**PRECAST CONCRETE CATCH BASIN 600x600mm**  
OPSD 705.010

**NOTES:**  
1 ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.  
2 THE MAXIMUM SLOPE OF NOT TO EXCEED 2%.  
3 THE MAXIMUM SLOPE OF 2% IS MAXIMUM 8%.  
4 EXPANSION AND DUMPY JOINTS AS PER SECTION 704.010.  
5 DEPRESSION CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS TO 5mm AND FOR PRIVATE ENTRANCES TO 15mm.

ONTARIO PROVINCIAL STANDARD DRAWING MAY 2001 REV: JUNE 2026  
**MONOLITHIC CONCRETE CURB AND SIDEWALK**  
OPSD No: SC2



**NOTE:**  
A This OPSD shall be read in conjunction with OPSD 610.010.  
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 3  
**CAST IRON, SQUARE FRAME WITH SQUARE FLAT GRATE FOR CATCH BASINS, HERRING BONE OPENINGS**  
OPSD 400.030

**NOTES:**  
A This OPSD shall be read in conjunction with OPSD 610.010 and 610.020.  
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 3  
**CAST IRON, SQUARE FRAME WITH SQUARE FLAT GRATE FOR CATCH BASINS, HERRING BONE OPENINGS**  
OPSD 400.020

**NOTES:**  
1 Anchor shall be 13x95mm Type 304 stainless steel expansion anchor or approved equivalent, threaded 32mm and installed per manufacturer's instructions. Equivalent (13x100mm Galvanized J-Bolt) cast-in-place anchor may be used.  
A Fastener shall be inserted to maintain minimum concrete cover requirements.  
B All steel components and rivets shall be galvanized according to ASTM or as specified.  
C All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Apr 2025 Rev 4  
**GALVANIZED STEEL HONEYCOMB GRATING FOR DITCH INLETS**  
OPSD 403.010

**NOTES:**  
A Covers shall be Type A or Type B, as specified.  
B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 5  
**CAST IRON, RAISED SQUARE FRAME WITH CIRCULAR CLOSED OR OPEN COVER FOR MAINTENANCE HOLES**  
OPSD 401.040

**NOTES:**  
1 TYPE OF TACTILE WALKING SURFACE INDICATORS SHALL BE ALIGNED A LEVEL WITH THE ADJACENT CONCRETE SURFACE AND INSTALLATION IN WET CONCRETE SHALL BE EFFECTIVE IN PERMANENTLY SECURING THE TACTILE PLATE TO THE CURB.  
2 FOR KNOCOUT SIDEWALKS, TWSI SHALL BE 200 TO 300mm BACK FROM THE CURB FACE.  
3 JOINTS SHALL BE CONSTRUCTED TRANSVERSELY ACROSS THE SIDEWALK, PERPENDICULAR TO THE FACE OF CURB FOR SIDEWALK.  
4 OPENING JOINTS ARE CONSTRUCTED ADJACENT TO TWSI'S. JOINTS SHALL EXTEND FROM THE BACK CORNERS OF THE CURBFACE TO THE BACK OF SIDEWALK, AS TERMINATED BY AN ADJUNCT JOINT.  
5 THE TERMINATION OF JOINTS AT BOTH THE FRONT AND BACK OF SIDEWALK SHALL BE NO LESS THAN 600mm APART.  
6 JOINTS IN ALL CONCRETE ELEMENTS SHALL BE LAID OUT TO ENSURE THAT NO INDIVIDUAL RESULTING CONCRETE PANEL IS LESS THAN 0.9m OR GREATER THAN 6m.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2019 Rev 1  
**CONCRETE SIDEWALK RAMPS TACTILE WALKING SURFACE INDICATORS COMPONENT**  
OPSD 310.039

**NOTES:**  
1 At the elbow, a stainless steel strap is required at bottom of bell.  
2 Straps shall not be placed within 150mm of any maintenance hole section joint.  
A Internal drop structure shall be used in maintenance holes 1500mm diameter and larger with a minimum height of 600mm from the inlet pipe invert to the bottom of channel.  
B Drop pipe shall be one size smaller than the incoming sewer with a minimum 150mm diameter and maximum of 375mm diameter. A maximum of 300mm diameter for 1500mm maintenance holes.  
C All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2021 Rev 0  
**INTERNAL DROP STRUCTURE FOR NEW MAINTENANCE HOLES WITH TOP CLEANOUT**  
OPSD 1003.033

**NOTES:**  
1 DOUBLE RAMP WIDTH SHOULD MATCH SIDEWALK WIDTH BE A MINIMUM OF 1.3m WIDE AND PERMIT TWEEDLEBOWS TO ENTER CROSSING AT RIGHT ANGLES.  
2 APPROVED TACTILE WALKING SURFACE INDICATOR.  
3 RAMP RADIUS TO MATCH CURB RADIUS TO MATCH CURB.  
4 ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.  
5 FOR TRANSITION RAMP, MAXIMUM SLOPE OF 2%.  
6 DEPRESSION CURB HEIGHT SHALL BE 0 TO 8mm.  
7 FOR PEDESTRIAN CURB RAMPS AND TO 25mm FOR PRIVATE ENTRANCES, OR EQUAL.  
8 FOR CURB RAMPS SLOPE OF 2% TO 5% MAXIMUM 8%.  
9 REFER TO INDOOR/OUTDOOR MEANS CROSSWALK AND B15.2 FOR AT GRADE CONCRETE CROSSWALK SUBJECT TO INDOOR/OUTDOOR MEANS CROSSWALK.  
10 FOR RIGHT OF WAY LOCATIONS ONLY.  
11 TWSI SHALL BE 300 TO 350mm BACK FROM CURB FACE.

ONTARIO PROVINCIAL STANDARD DRAWING MAR 2013 REV: JAN 2026  
**PEDESTRIAN CURB RAMP WITHOUT BOULEVARD**  
OPSD No: SC6

4 ISSUED FOR TENDER 26-06-26  
3 ISSUED FOR DETAILED DESIGN 26-05-26  
2 ISSUED FOR PRELIMINARY DESIGN 27-03-26  
1 ISSUED FOR UTILITY CIRCULATION 13-02-26

No. ISSUE / REVISION DDMMYY

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SCALE: H=1:250, V=1:50

CLIENT:

CONSULTANT: www.jlrichards.ca  
**J.L. Richards ENGINEERS-ARCHITECTS-PLANNERS**

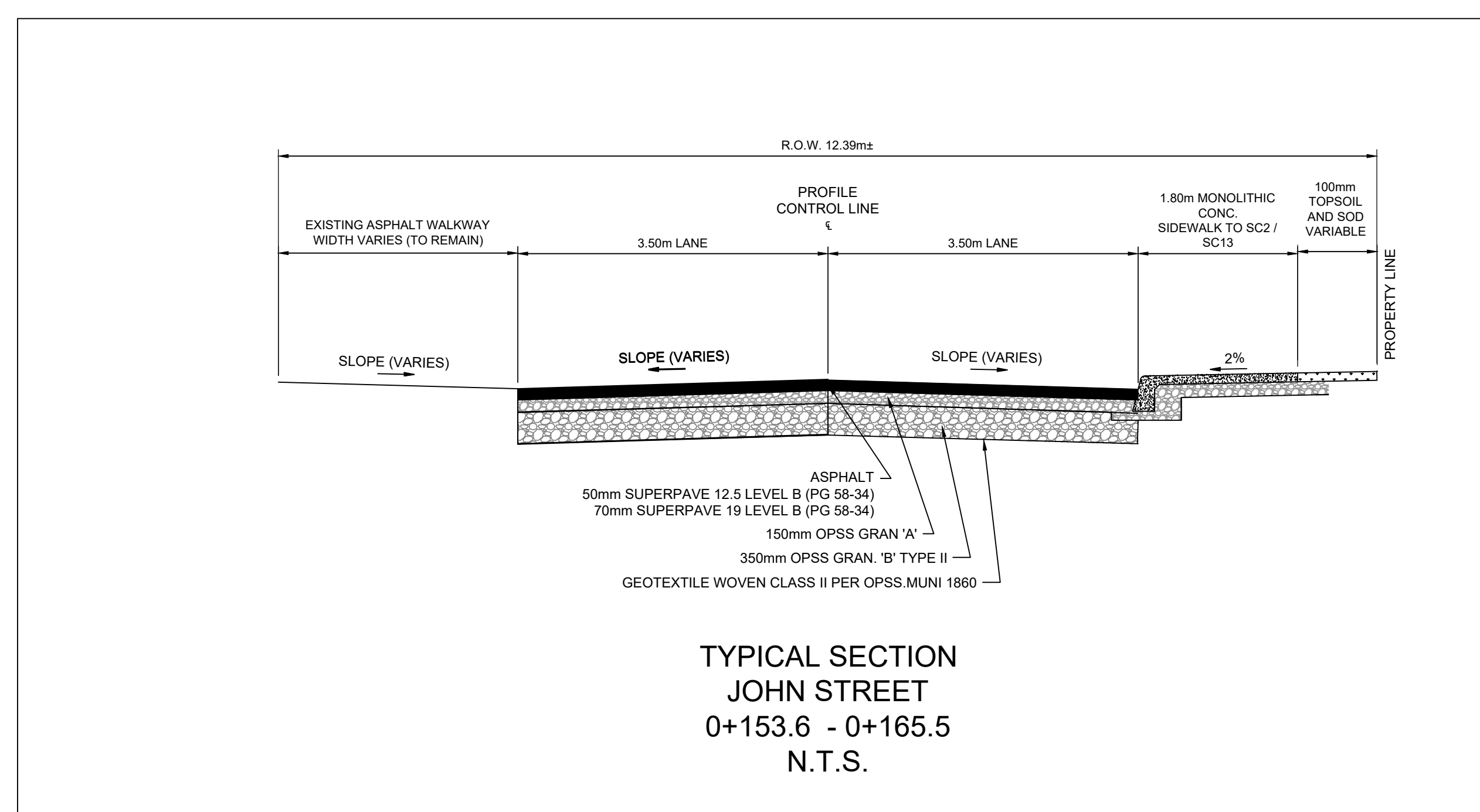
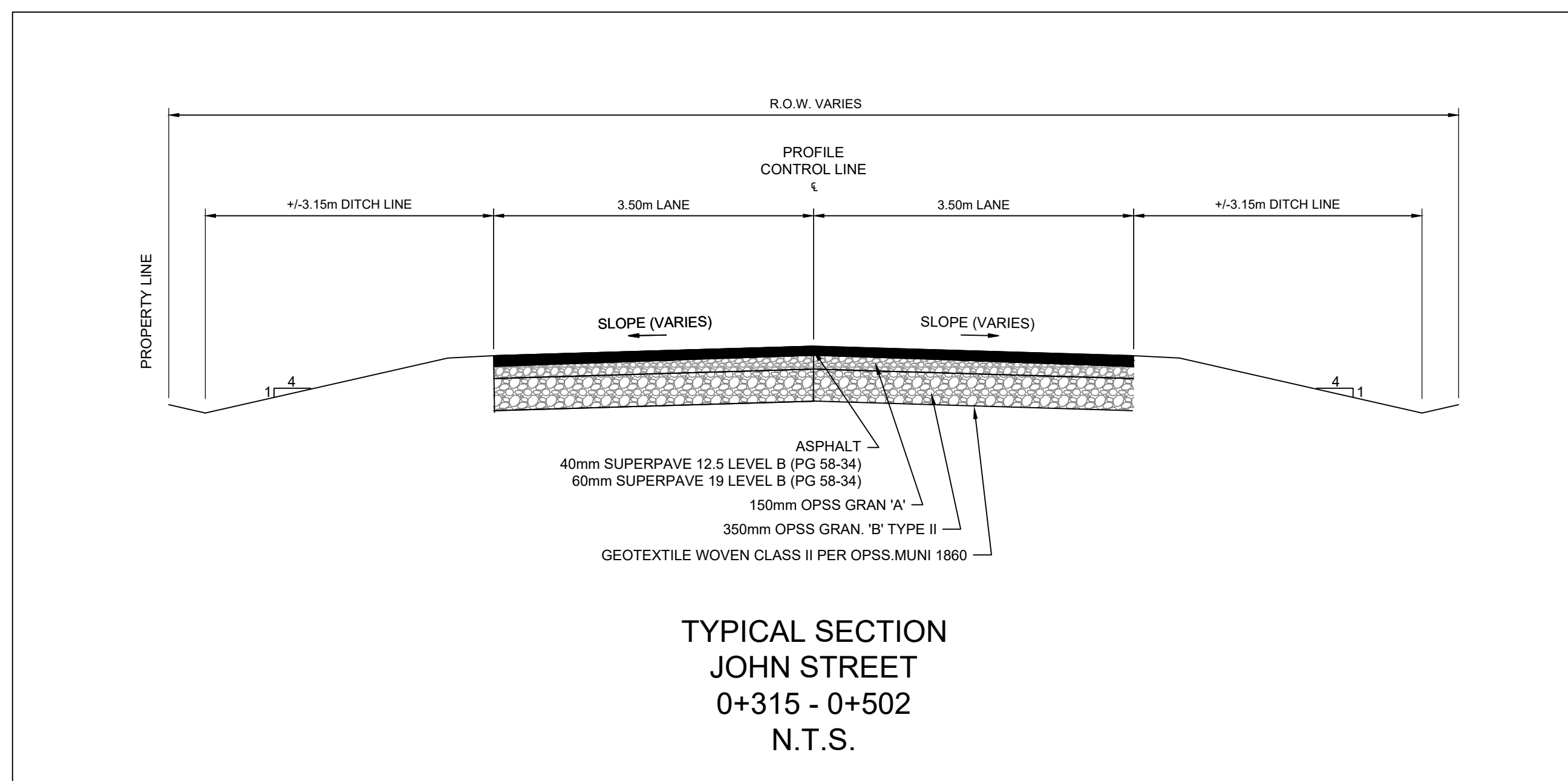
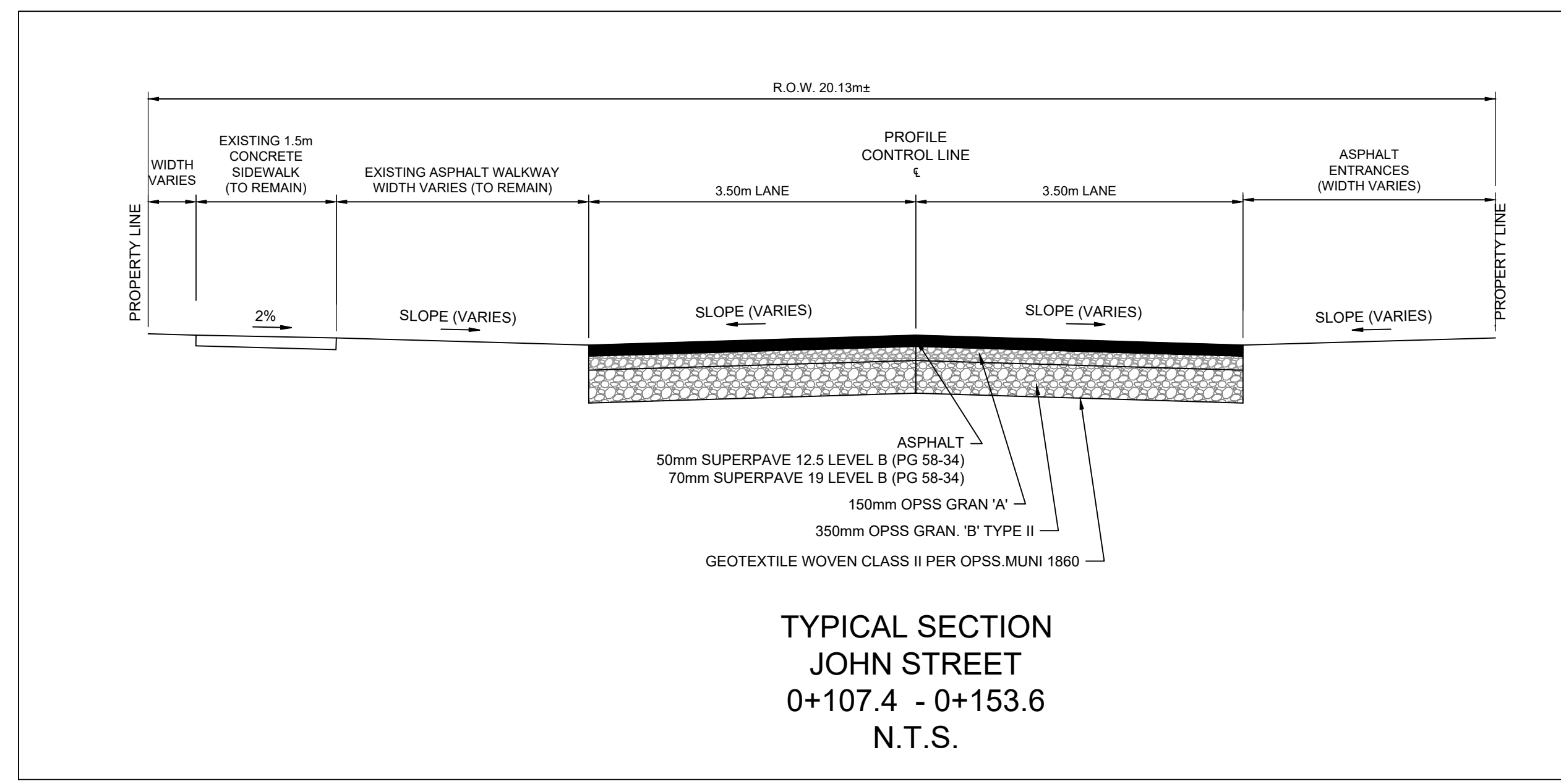
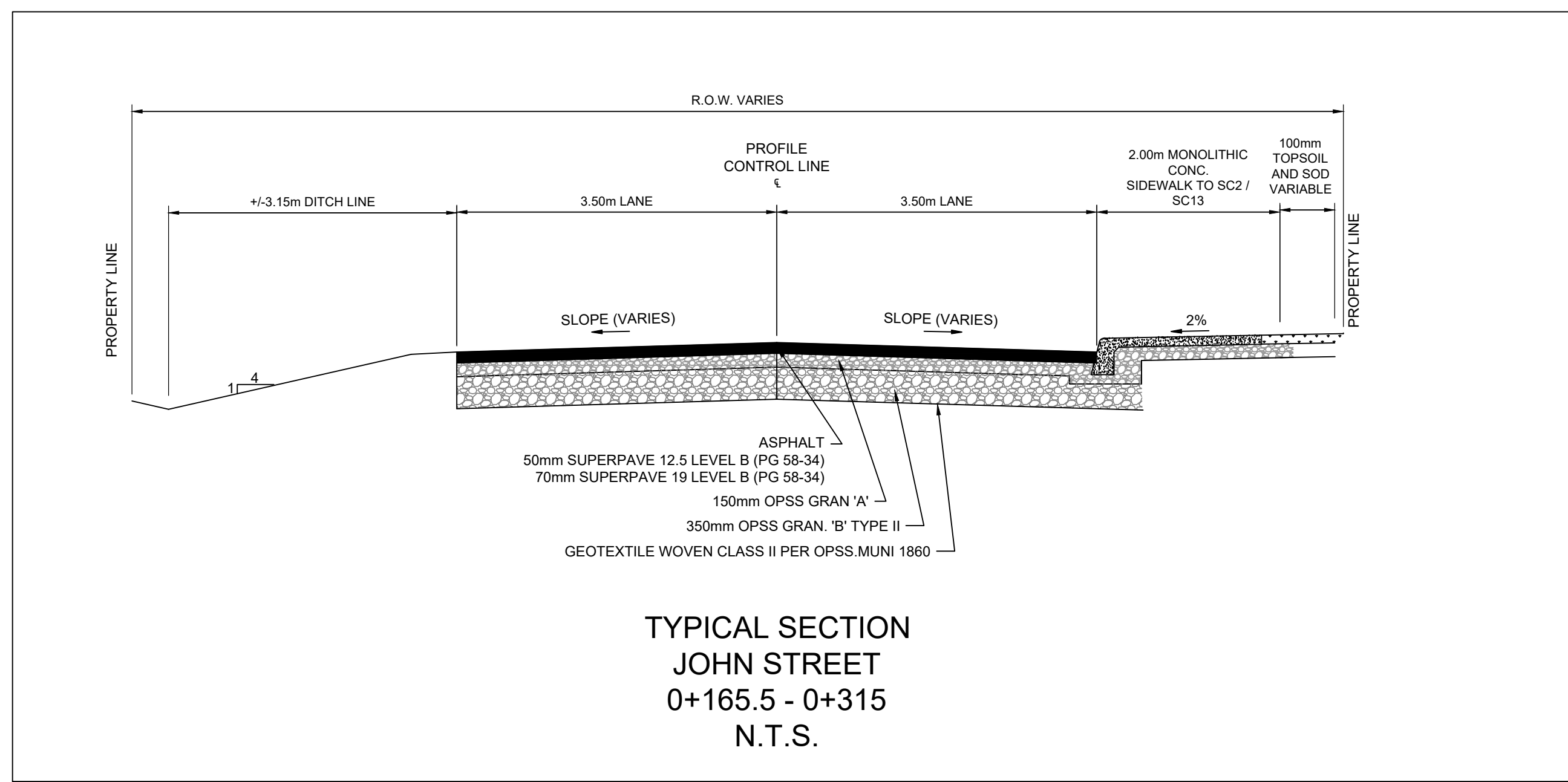
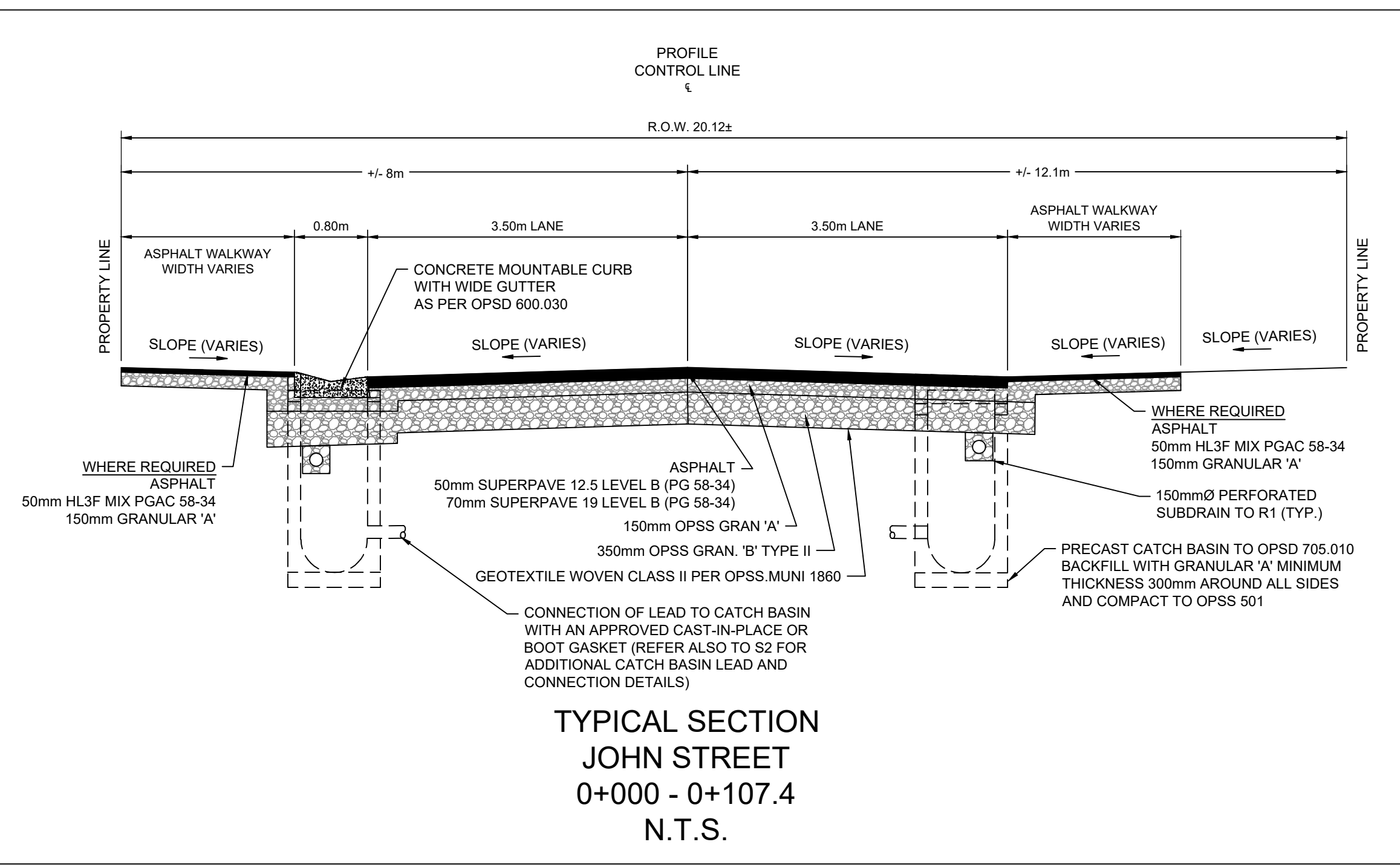
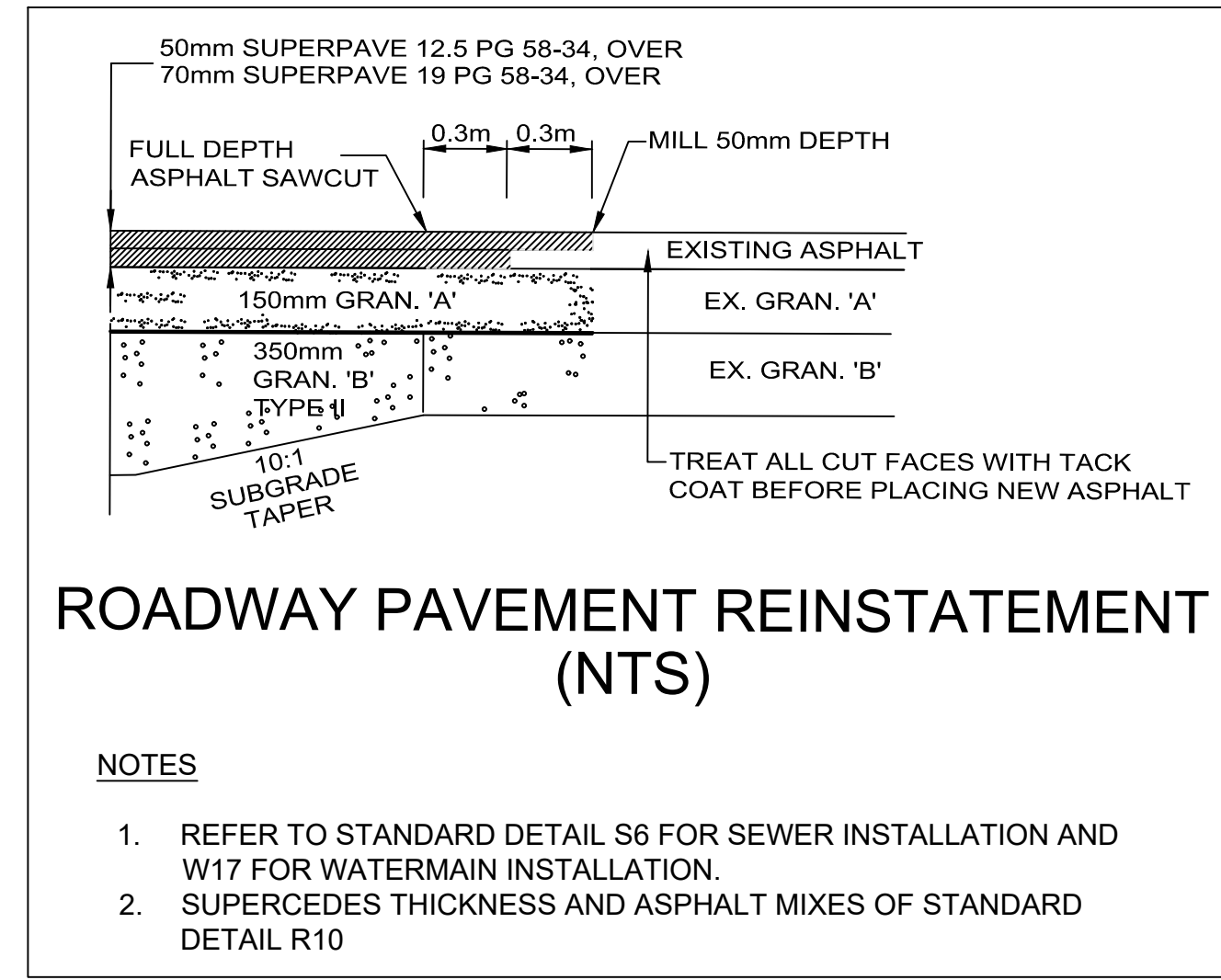
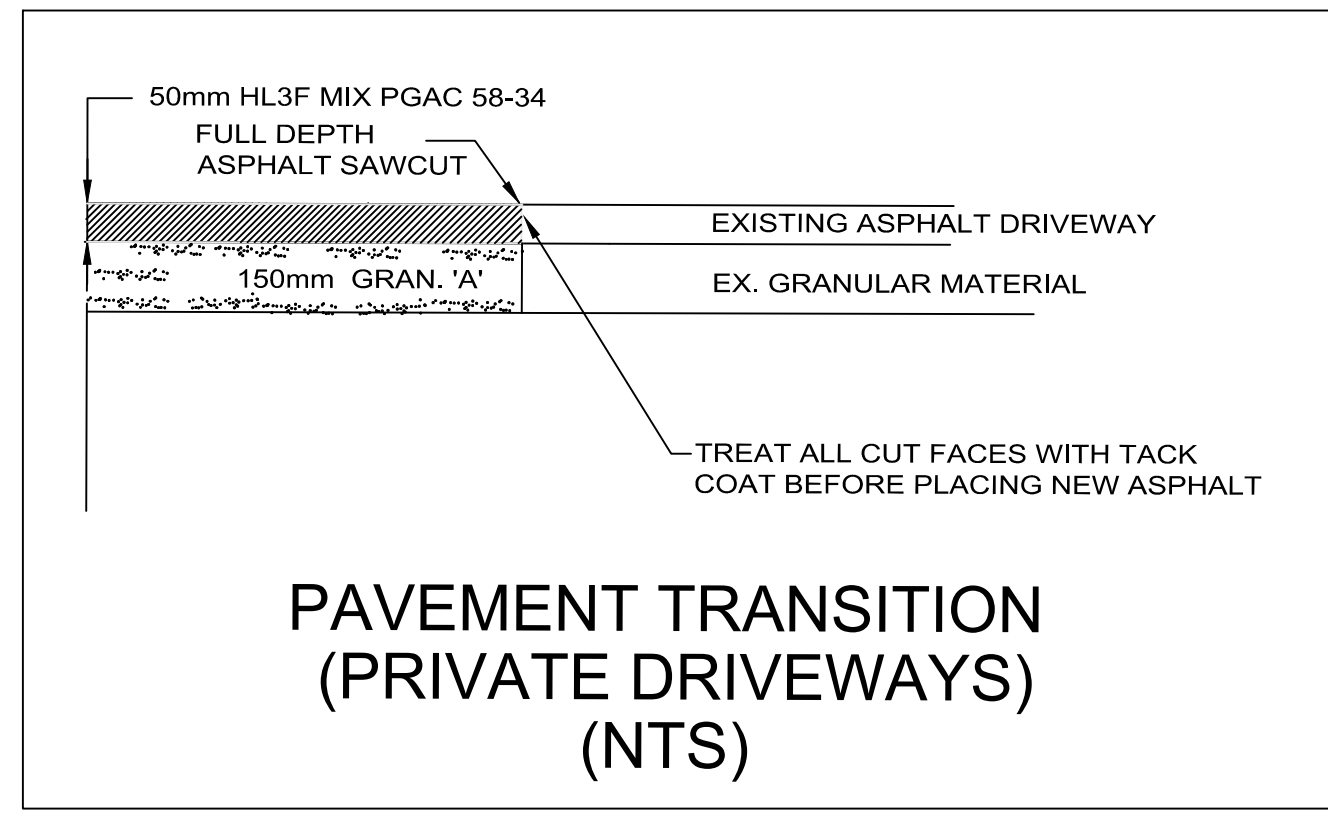
CONSULTANT:

PROFESSIONAL STAMP PROJECT NORTH

PROJECT: **JOHN STREET SEWER AND WATERMAIN RECONSTRUCTION**  
EGANVILLE, ONTARIO

DRAWING: **JOHN STREET DETAILS**

DESIGN: DS/AP DRAWING #: **C16**  
DRAWN: DS  
CHECKED: CB/MB  
JLR #: 21981-047



No.	ISSUE / REVISION	DDMMYY
4	ISSUED FOR TENDER	26-06-26
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SCALE: H=1:250, V=1:50



CONSULTANT:  
**J.L. Richards**  
ENGINEERS - ARCHITECTS - PLANNERS

CONSULTANT:

PROFESSIONAL STAMP PROJECT NORTH

PROJECT:  
**JOHN STREET  
SEWER AND WATERMAIN  
RECONSTRUCTION**  
EGANVILLE, ONTARIO

DRAWING:  
**JOHN STREET  
TYPICAL CROSS SECTION  
ELEMENTS**

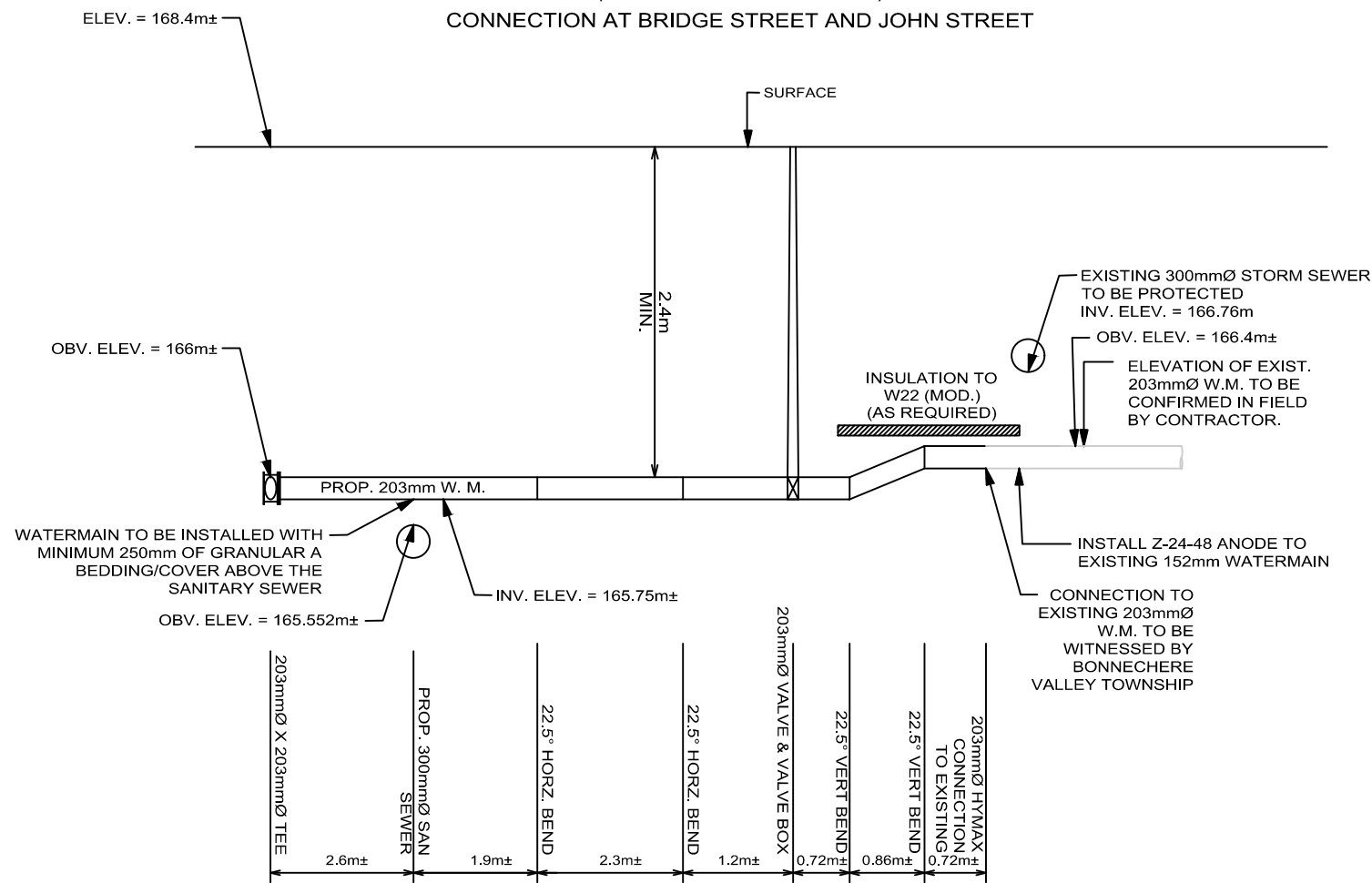
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JLR #: 21981-047

DRAWING #:  
**C17**

**WATERMAIN DETAIL "A"**

(REFER TO DWG. NO. C05)

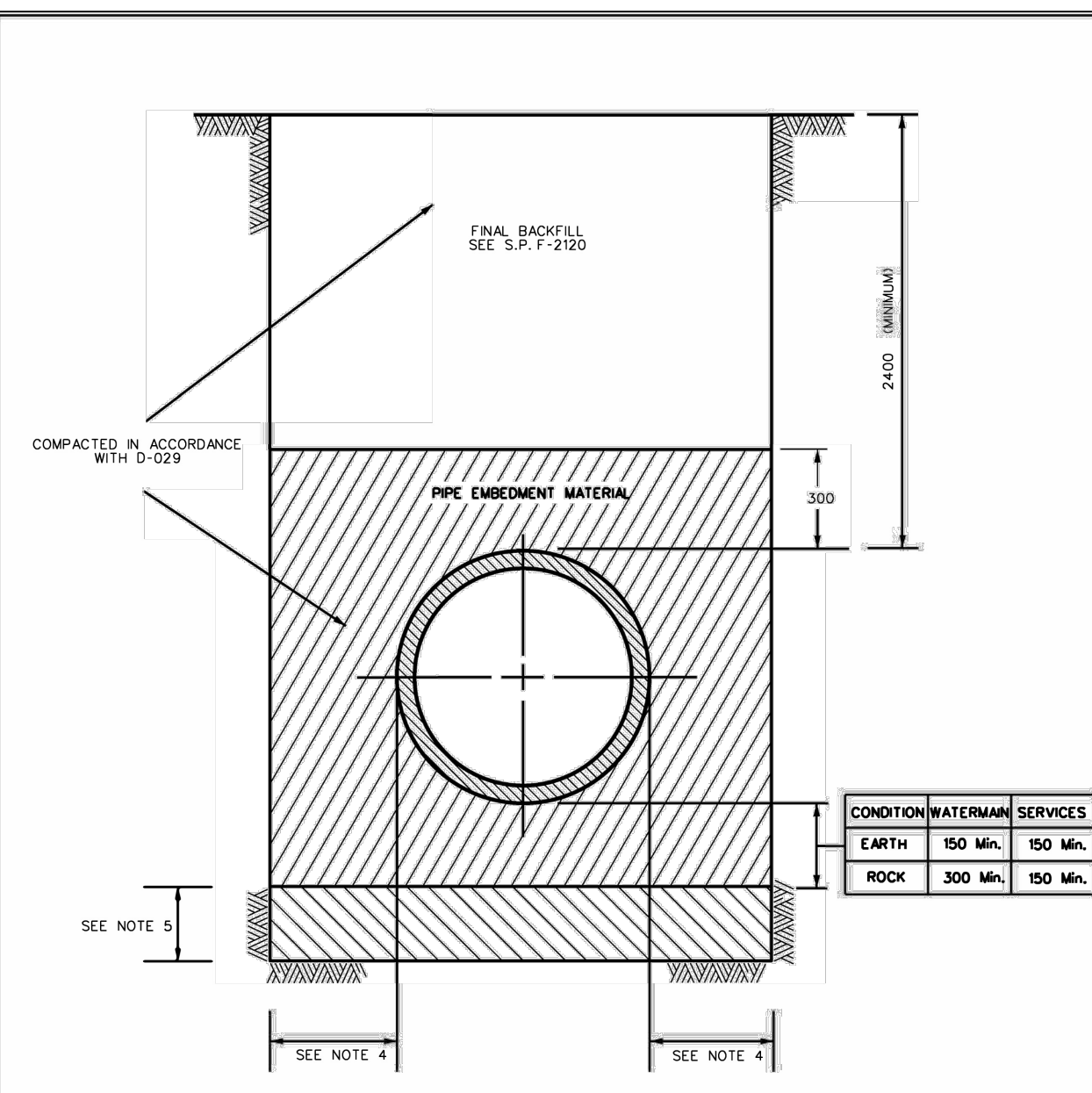
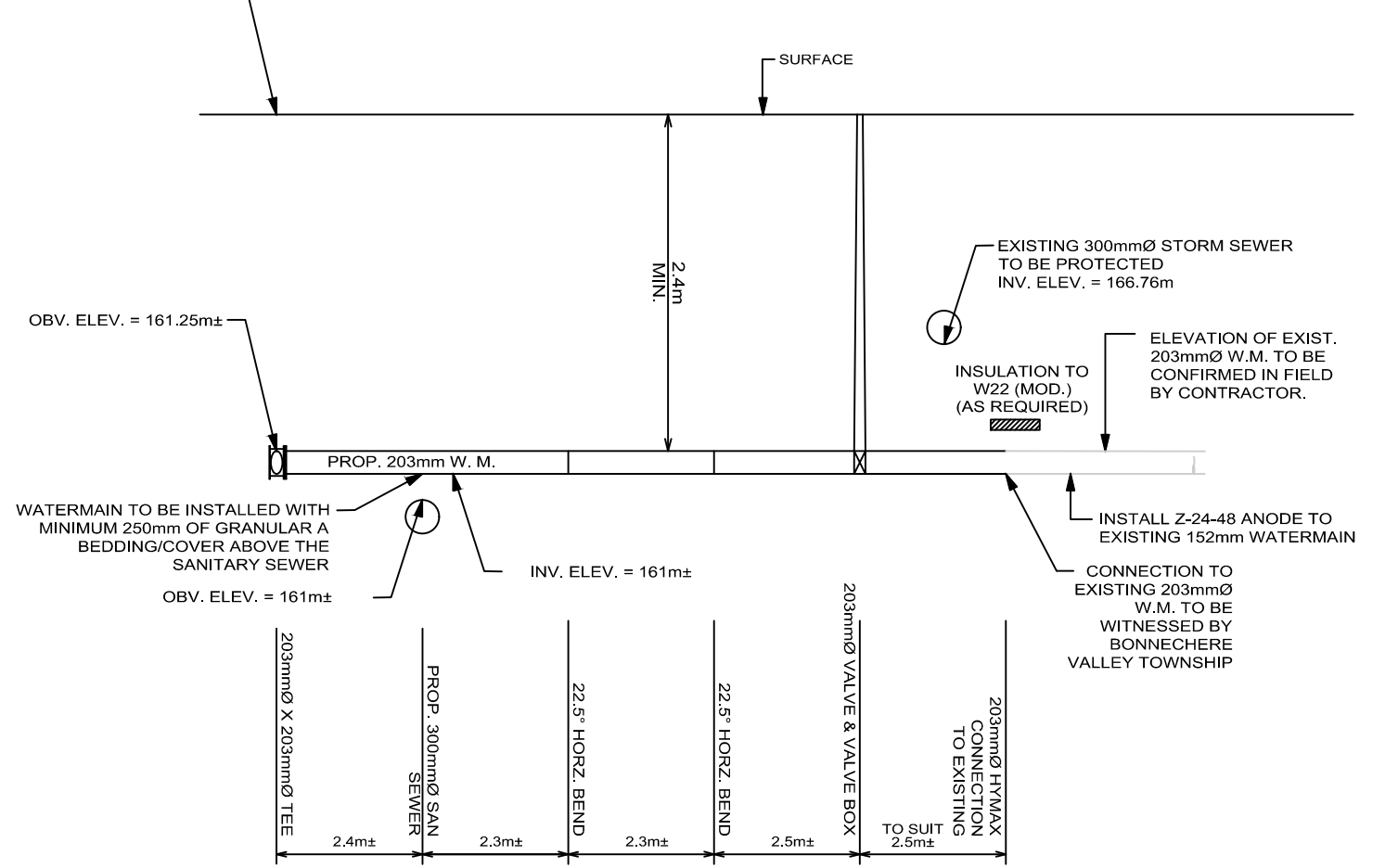
CONNECTION AT BRIDGE STREET AND JOHN STREET



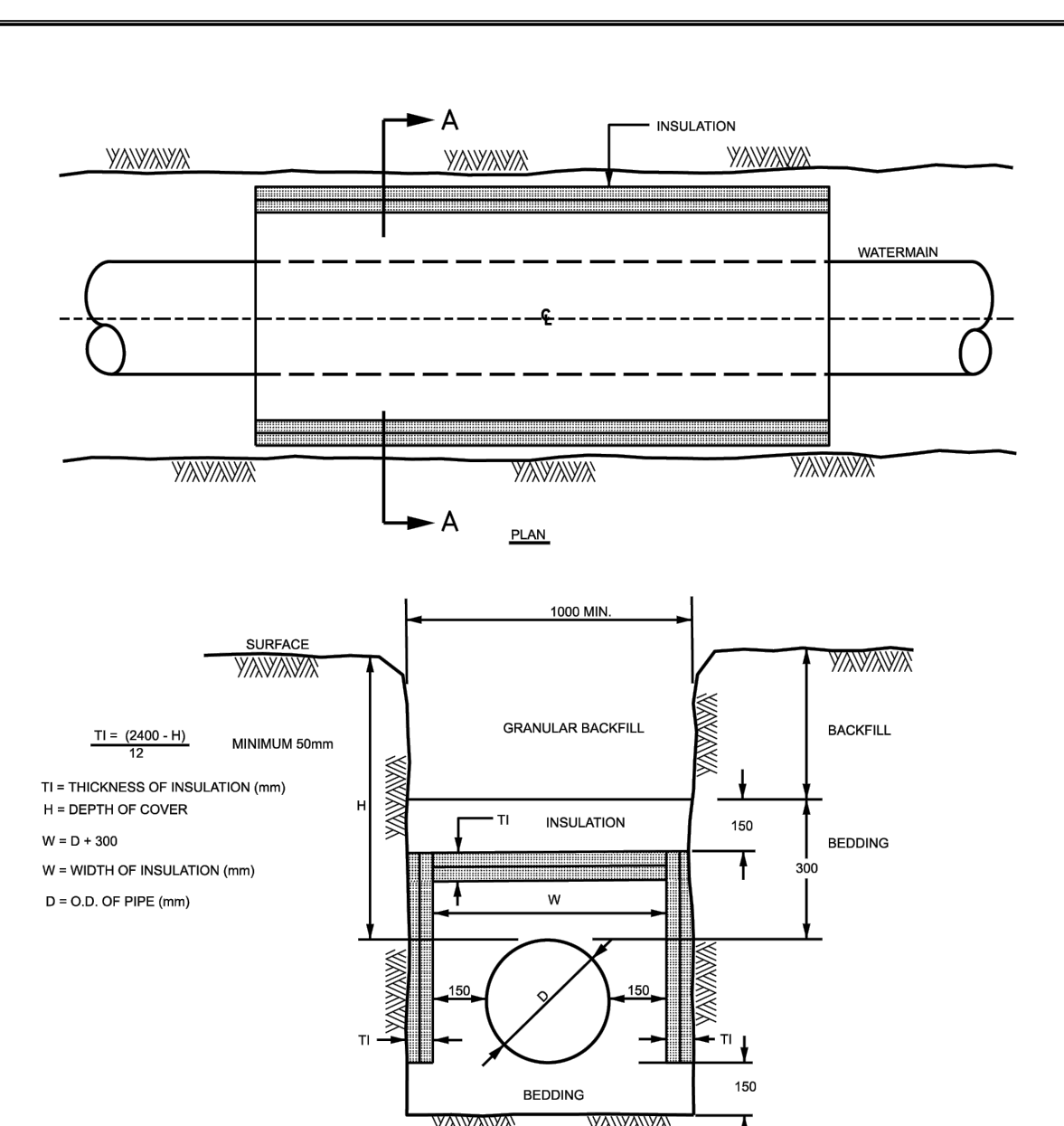
**WATERMAIN DETAIL "B"**

(REFER TO DWG. NO. C07)

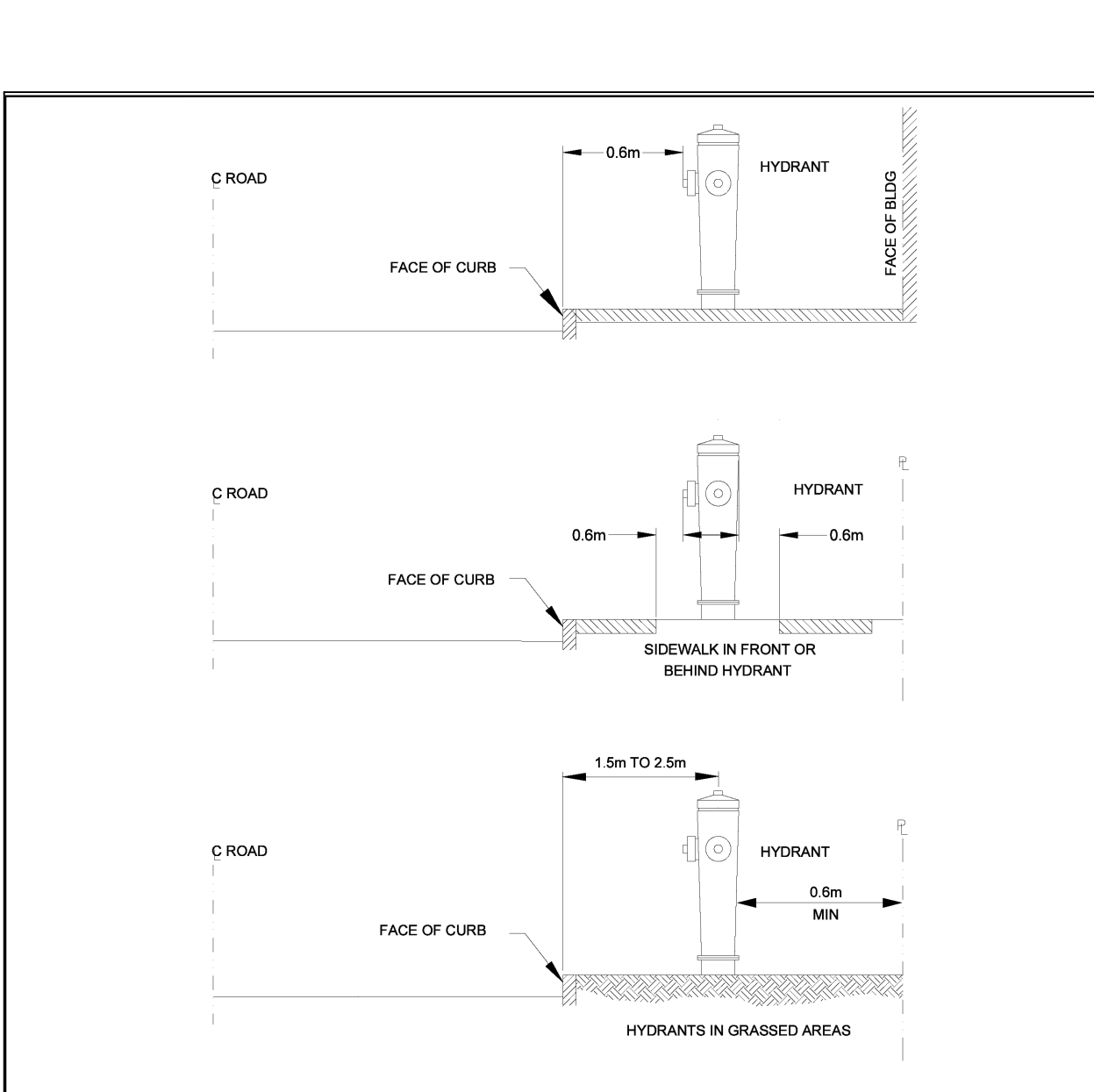
CONNECTION AT LOUISE EASEMENT AND JOHN STREET



- NOTES:**
- PIPE EMBEDMENT MATERIAL - GRANULAR 'A'.
  - FINAL BACKFILL - APPROVED NATIVE MATERIAL OR SELECT SUBGRADE IN ACCORDANCE WITH F-4120 AND F-2120 W.M. TO BE WITNESSED BY BONNECHERE VALLEY TOWNSHIP.
  - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
  - WHEN APPROVED BY THE CONTRACT ADMINISTRATOR, POOR SOILS SHALL BE EXCAVATED TO CREATE A FOUNDATION THAT SHALL BE FILLED TO THE BEDDING WITH GRANULAR 'B'.



- NOTES:**
- FOR 150-400mm (NOMINAL DIAMETER) WATERMAINS, WHERE THE DEPTH OF COVER IS LESS THAN 250mm.
  - IN PROXIMITY OF MAINTENANCE HOLES, CULVERTS, CATCHBASINS, ETC., INSULATION SHALL BE PLACED PER DETAIL W23.
  - DEPTH OF COVER LESS THAN 1200mm REQUIRES SPECIAL DESIGN.
  - STAGGER JOINTS OF MULTIPLE SHEETS.
  - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
  - INSULATION NOT TO BE USED AS A MEANS TO AVOID EXCAVATION.

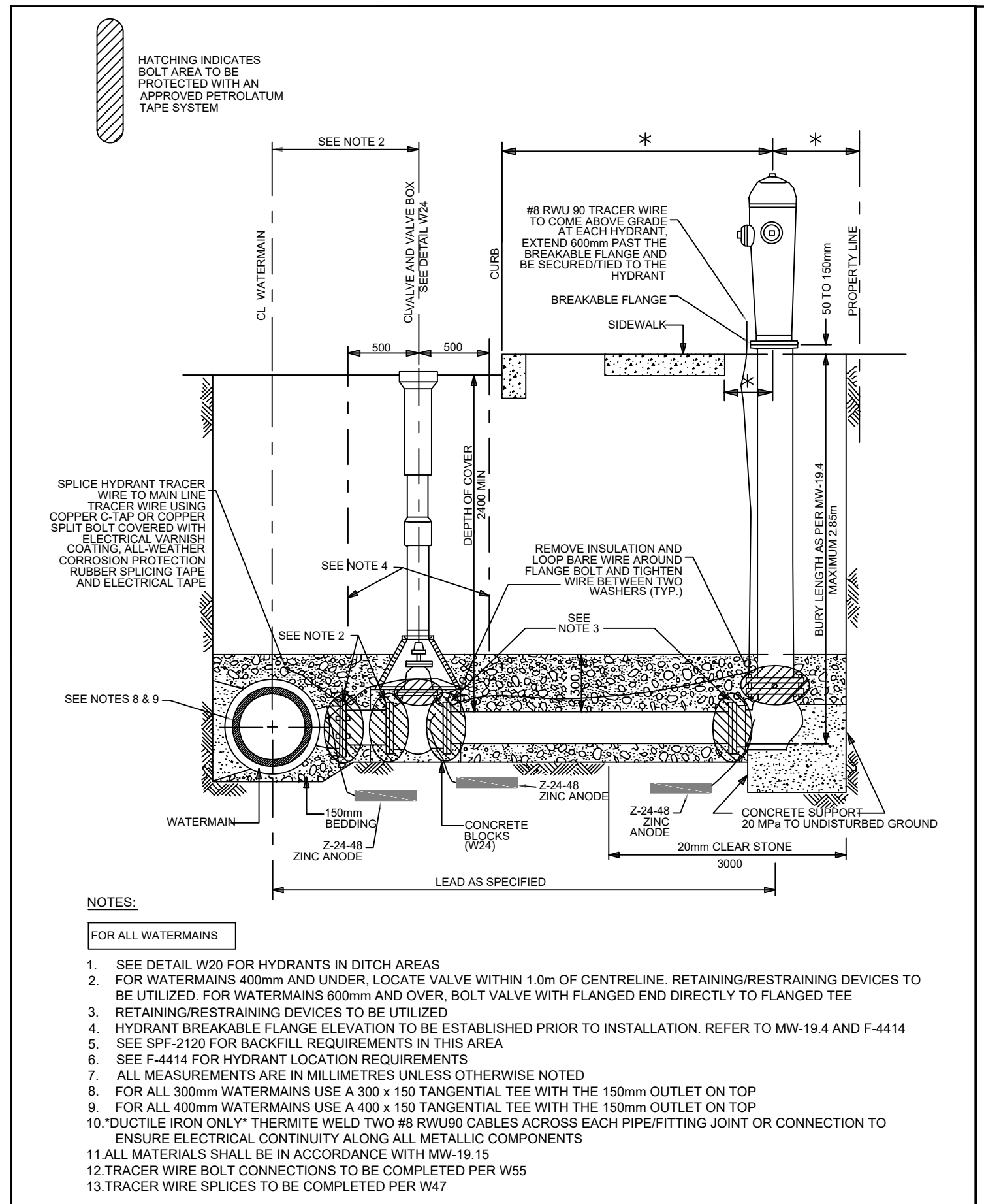


- NOTES:**
- REFER TO CONSTRUCTION SPECIFICATION F-4414

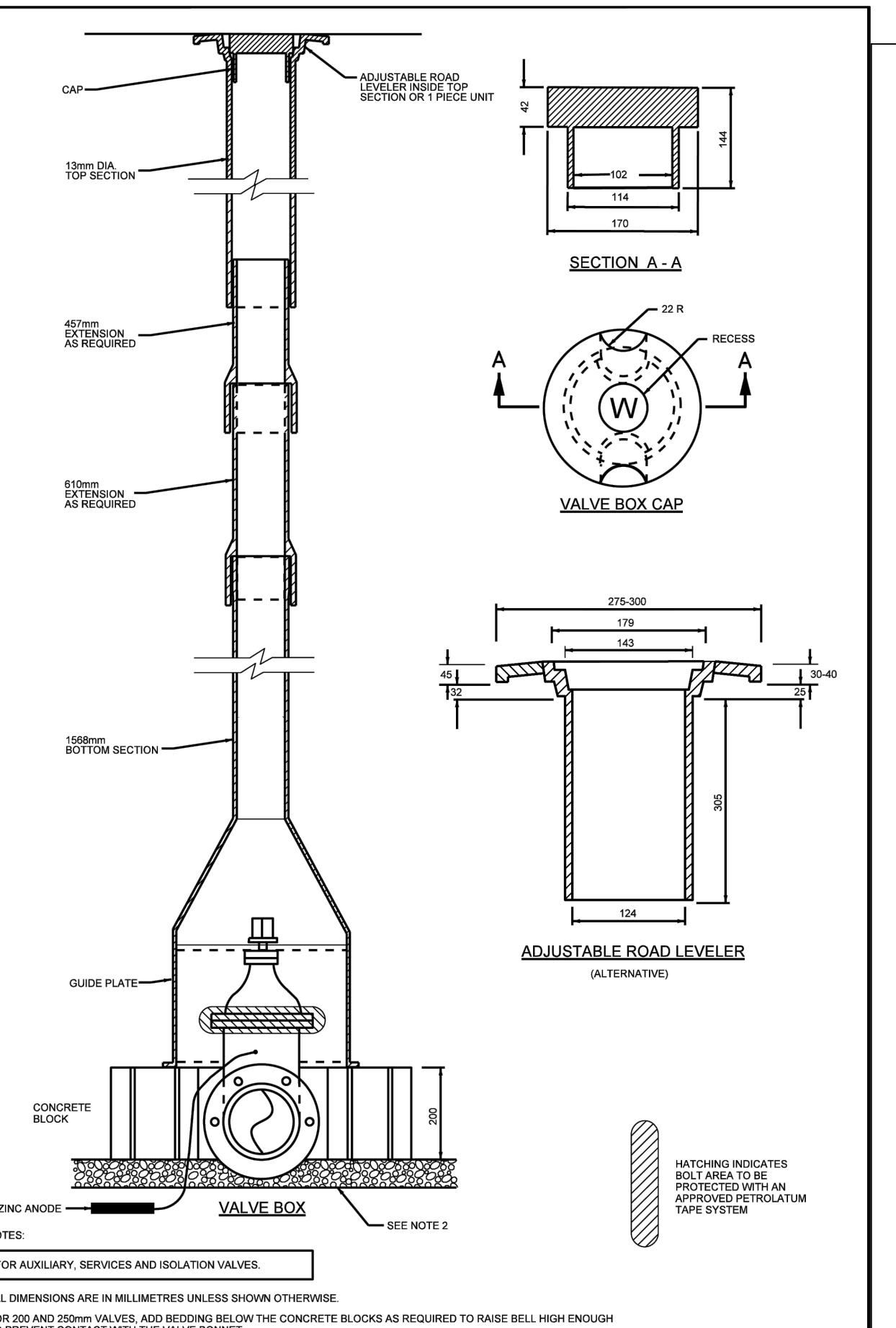
**Ottawa** STANDARD TRENCH DETAIL DATE: MAY 2001 REV: JANUARY 2026 DWG. No: W17

**Ottawa** THERMAL INSULATION FOR WATERMAINS DATE: MAY 2001 REV: JANUARY 2026 DWG. No: W22

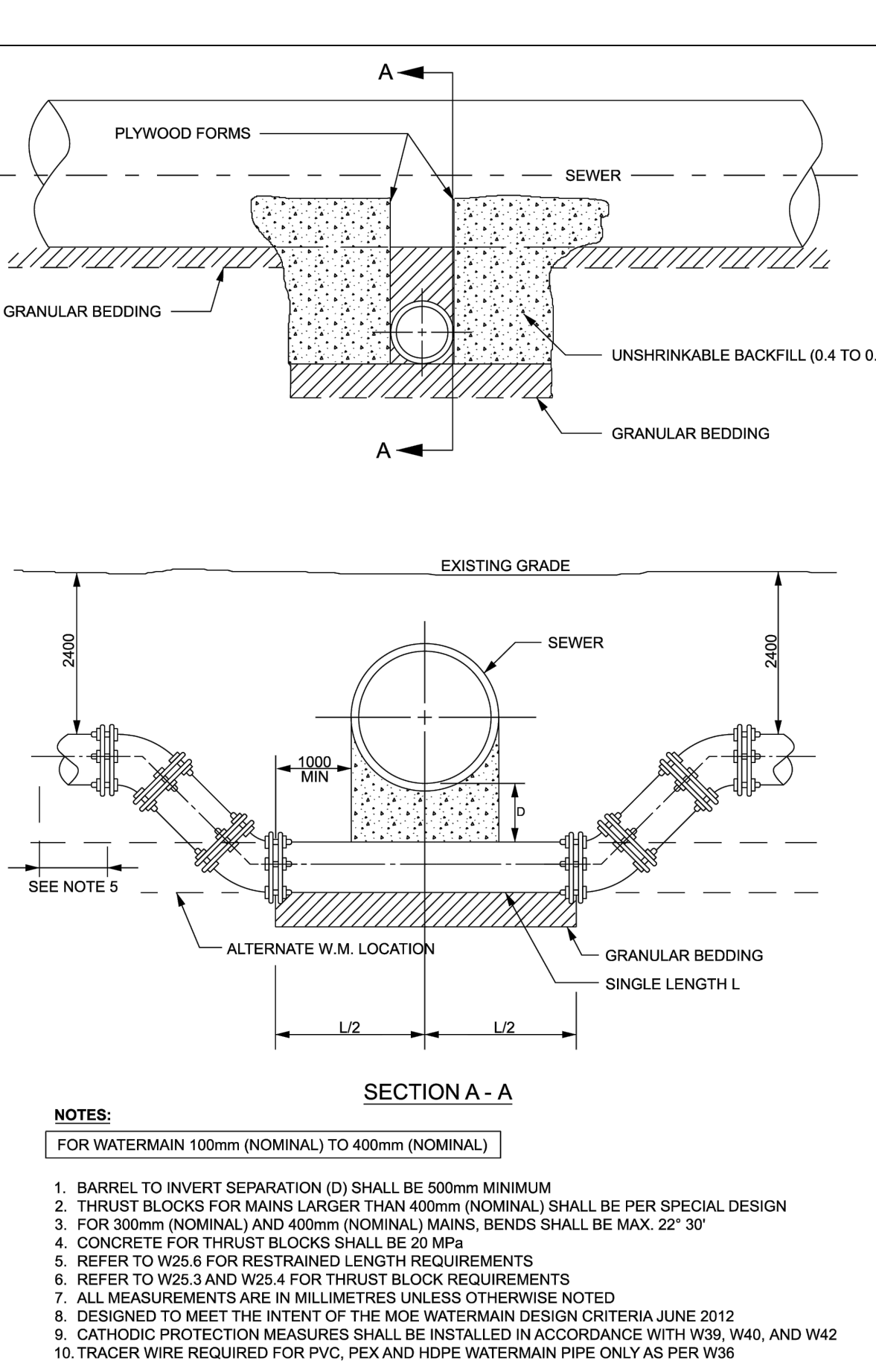
**Ottawa** HYDRANT LOCATION DATE: FEB 2013 REV: FEB 2025 DWG. No: W18



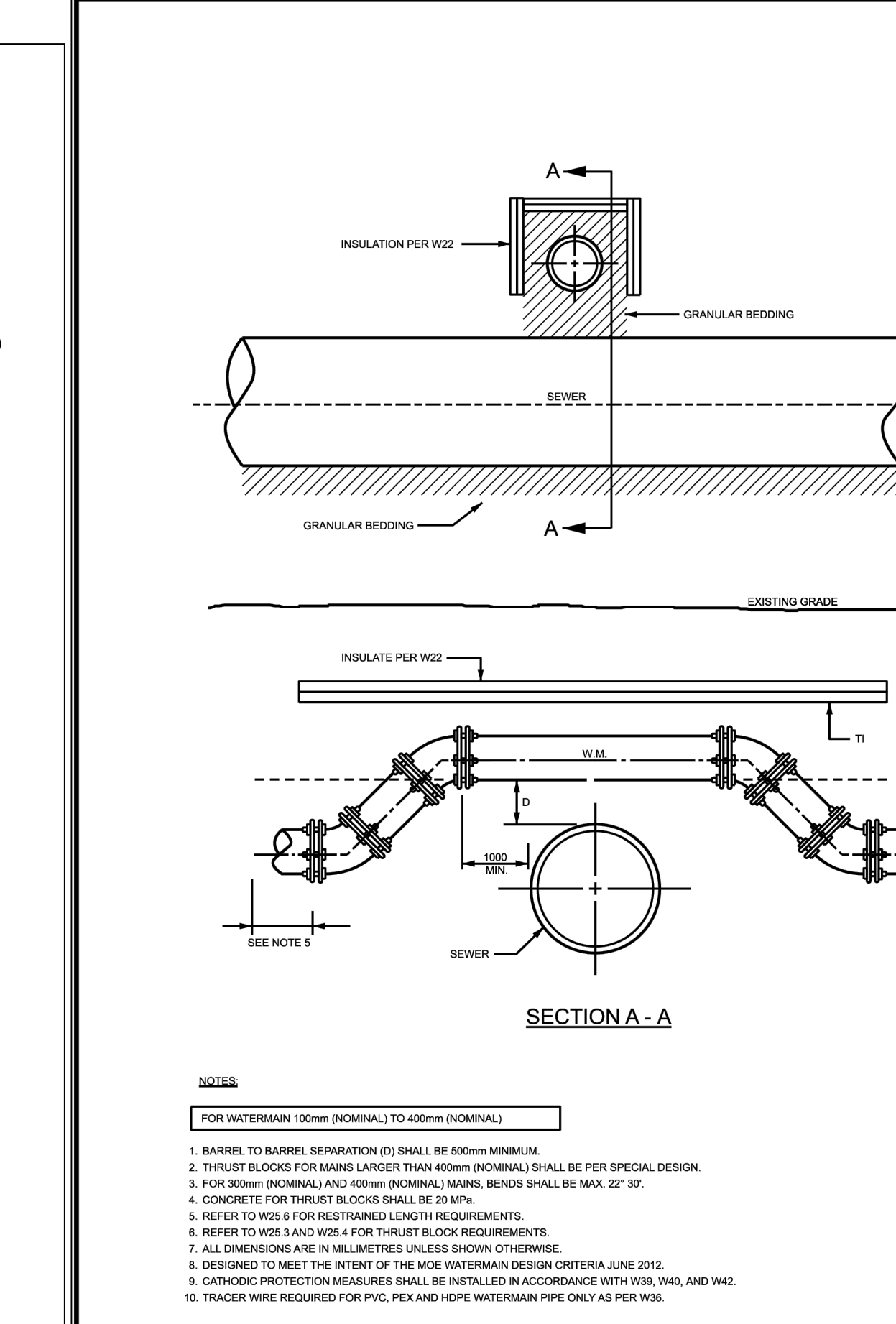
**Ottawa** HYDRANT INSTALLATION - NEW CONSTRUCTION DATE: MAY 2001 REV: MAR 2023 DWG. No: W19



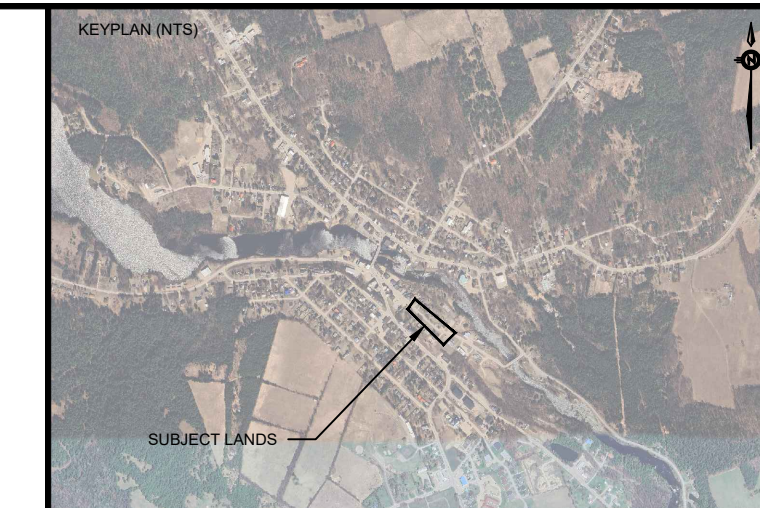
**Ottawa** VALVE BOX ASSEMBLY DATE: MAY 2001 REV: MARCH 2021 DWG. No: W24



**Ottawa** WATERMAIN CROSSING BELOW SEWER DATE: MAY 2001 REV: JAN 2026 DWG. No: W25



**Ottawa** WATERMAIN CROSSING OVER SEWER DATE: MAY 2001 REV: JANUARY 2026 DWG. No: W25.2



No.	ISSUE / REVISION	DDMMYY
4	ISSUED FOR TENDER	26-06-26
3	ISSUED FOR DETAILED DESIGN	26-05-26
2	ISSUED FOR PRELIMINARY DESIGN	27-03-26
1	ISSUED FOR UTILITY CIRCULATION	13-02-26

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VERIFY SHEET SIZE AND SCALES. THE BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING. SCALE: H=1:250, V=1:50



**J.L. Richards**  
ENGINEERS - ARCHITECTS - PLANNERS

PROJECT NORTH

PROJECT: JOHN STREET SEWER AND WATERMAIN RECONSTRUCTION  
EGANVILLE, ONTARIO

DESIGN: DS/AP  
DRAWN: DS  
CHECKED: CB/MB  
JLR #: 21981-047

DRAWING #: **C18**

File Location: P:\02\1000\1981-047 - Eganville HEVSWF - John Street Production\1-Civil\21981-047-C-DETAILS.dwg

PLOT DATE: Fri, June 26, 2026 10:35:35 AM