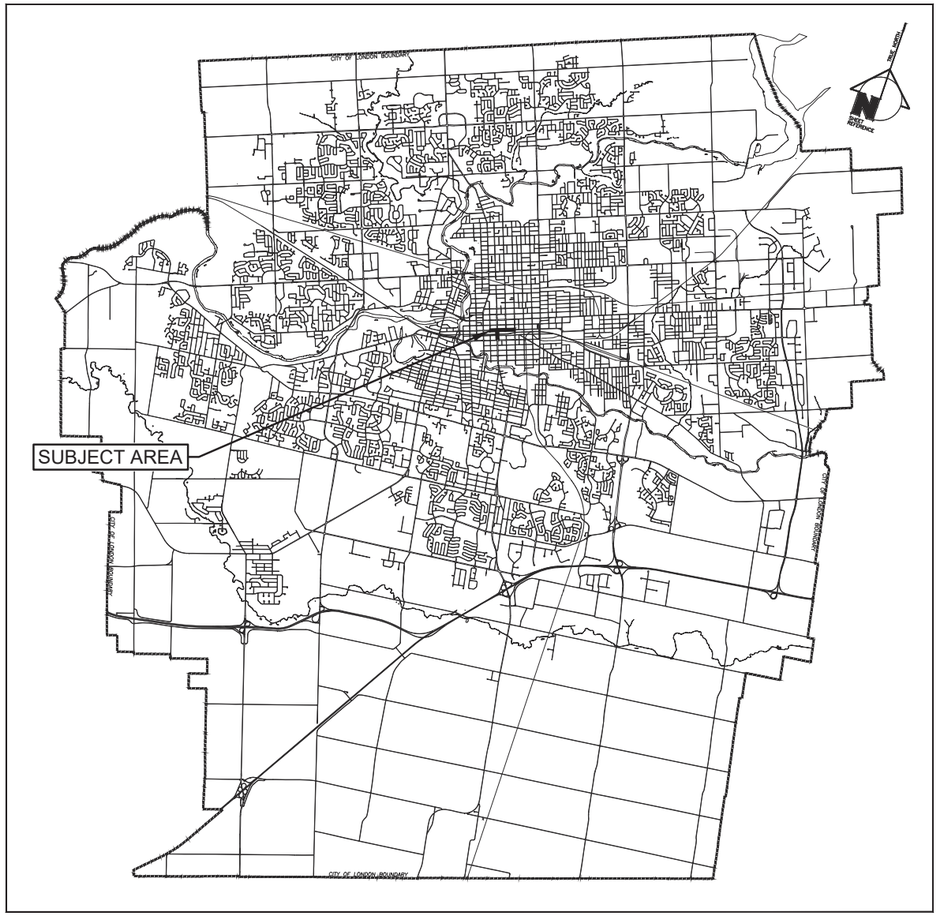
FOR DISPLAY PURPOSES ONLY

DOWNTOWN SEWER SEPARATION PHASE 4

YORK STREET - CLARENCE STREET TO COLBORNE STREET
WELLINGTON STREET - BATHURST STREET TO KING STREET

London
CANADA

CITY OF LONDON
TENDER No. 2023-265



ISSUED FOR TENDER - NOVEMBER 17, 2023

PROJECT No. 60688424

AECOM

London, Ontario
519.673.0510

KYLE CHAMBERS, P.ENG., DIVISION MANAGER
SEWER ENGINEERING DIVISION

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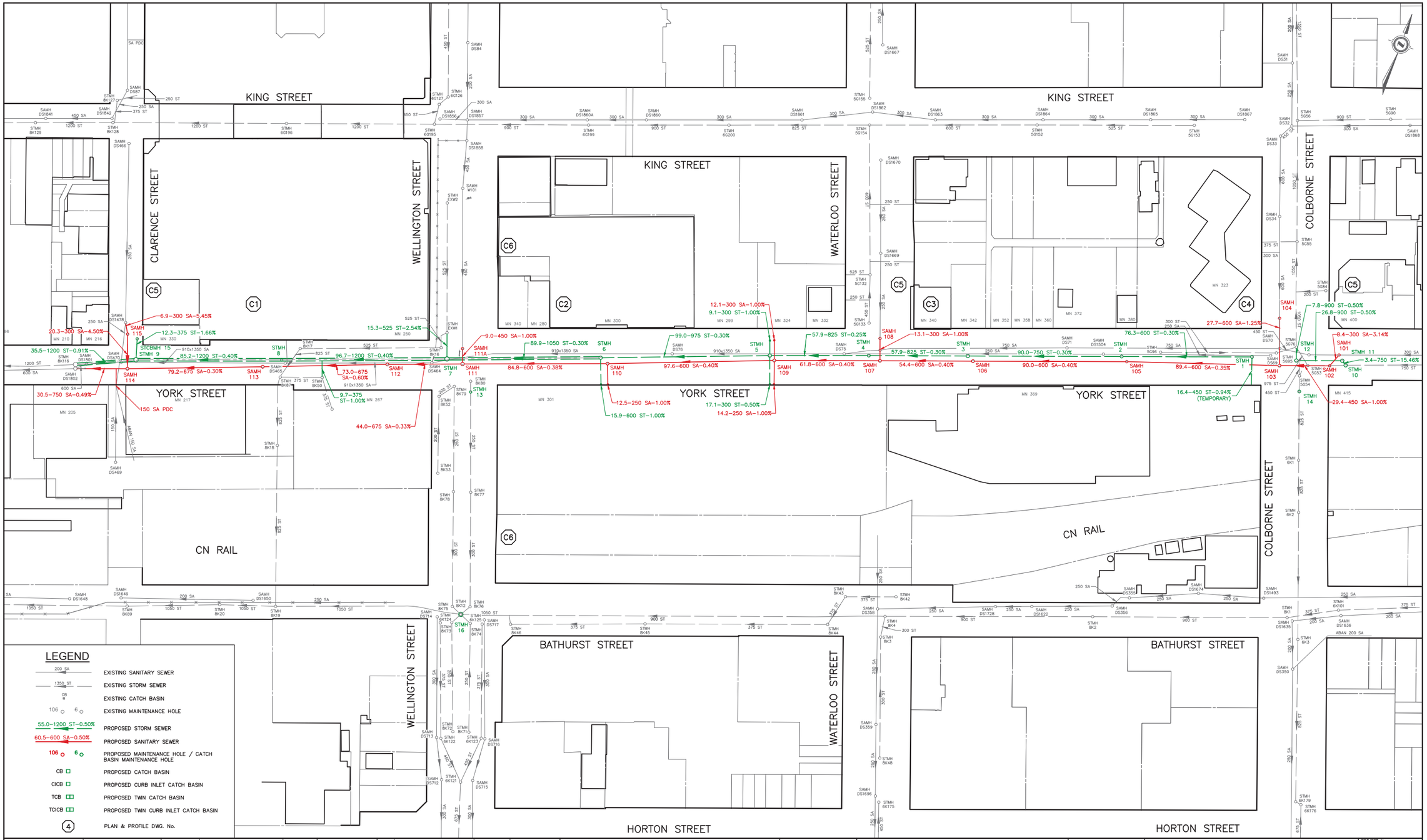

EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION

DETAILS	
DESIGN	DCC/JMP
DRAWN BY	JMP
CHECKED	DCC
APPROVED	JJK
DATE	NOV. 2023

No.	REVISIONS	DATE
0.	ISSUED FOR TENDER	NOVEMBER 2023

CONSULTANT OR DIVISION

AECOM

London, Ontario
519.673.0510

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LICENSED PROFESSIONAL ENGINEER
J. J. KELSO
100116390
11/08/2023
PROVINCE OF ONTARIO

CORPORATION OF THE CITY OF LONDON
London CANADA

SCALE
1 : 1000

DOWNTOWN SEWER SEPARATION PHASE 4
YORK STREET - CLARENCE STREET TO COLBORNE STREET
WELLINGTON STREET - BATHURST STREET TO KING STREET

SEWER AREA PLAN

PROJECT No. 60688424
SHEET No. AP1
PLAN FILE No.

L:\DCC\Projects_WTP\60688424_Downtown_Sewer_Sep_Phase4\900_CAD_GIS\910_CAD\20-SHEETS\C\60688424_SHT_30_C_Sewer Area Plan.dwg, 11/8/2023 10:52 AM

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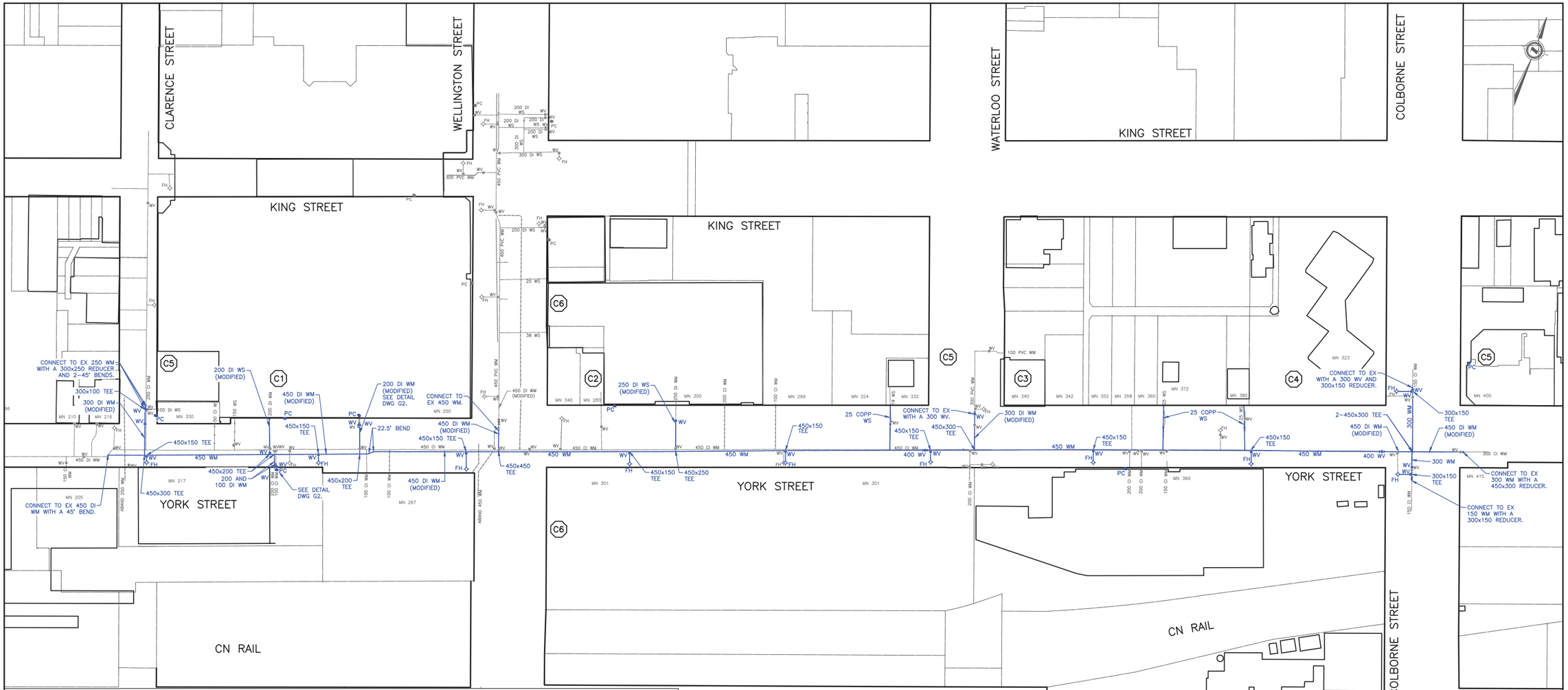

LEGEND:

200 WM	EXISTING WATERMAIN
200 WM	PROPOSED WATERMAIN
F.H.	PROPOSED 3-WAY FIRE HYDRANT c\w STORZ CONNECTION
F.H.	EXISTING FIRE HYDRANT
WV	PROPOSED WATER VALVE
WV	EXISTING WATER VALVE
▶	PROPOSED REDUCER
5	PLAN AND PROFILE DRAWING
PC	PUMP CONNECTION LOCATION

WATERMAIN NOTES

1. ALL WATERMAINS TO HAVE 1.7 m TO 1.9 m COVER.
2. THRUST RESTRAINTS TO BE USED AT ALL TEES AND BENDS. CONTRACTOR TO SUBMIT TO THE CONTRACT ADMINISTRATOR, A THRUST RESTRAINT PLAN FOR APPROVAL FOR ALL WATERMAIN UP TO 400mm DIA. PRIOR TO WATERMAIN INSTALLATION. THRUST RESTRAINT SHOP DRAWINGS TO BE SUPPLIED BY MANUFACTURER FOR WATERMAINS 400mm DIAMETER AND LARGER.
3. WHERE ANY WATER SERVICE CONNECTION IS REQUIRED TO BE MADE FOLLOWING THE CONSTRUCTION OF CURB, GUTTER, CONCRETE SIDEWALKS AND/OR WEARING SURFACE COAT OF ASPHALT ON ANY STREET IN A NEW SUBDIVISION, SUCH WATER SERVICE CONNECTION SHALL NOT BE MADE USING "OPEN CUT" METHODS BUT SHALL BE MADE USING DRILLING OR BORING TECHNIQUES AND IN SUCH A MANNER AS TO ELIMINATE THE POSSIBILITY OF SETTLEMENT OF SUCH CURB, GUTTER, CONCRETE SIDEWALK OR WEARING SURFACE COAT OF ASPHALT; IT BEING UNDERSTOOD THAT THIS POLICY SHALL APPLY EXCEPT WHERE, IN THE OPINION OF THE CITY ENGINEER, GROUND CONDITIONS ARE SUCH THAT THE USE OF DRILLING OR BORING METHODS BECOME UNREASONABLE OR UNECONOMICAL.
4. ALL WATERMAIN MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE CURRENT CITY OF LONDON SUPPLEMENTAL STANDARDS FOR SEWER AND WATER.
5. WHERE WATER SERVICE CROSS STORM SEWERS (450mm DIAMETER AND UP) THERE MUST BE A MIN. 0.6m SEPARATION. IF NOT, INSULATION IS REQUIRED. IF LESS THEN 1.5m OF COVER OVER WATER SERVICE, INSULATION IS ALSO REQUIRED.
6. WATERMAIN JOINT DEFLECTION IS TO BE USED ON LONG CURVES. AXIAL FLEXURE IS NOT PERMITTED. IF JOINT DEFLECTION CANNOT BE ACHIEVED WITHIN ONE HALF OF THE MANUFACTURER'S SPECIFICATIONS, THEN MANUFACTURED BENDS MUST BE USED.
7. ALL WATER SERVICES TO BE 25mm DIAMETER PEX UNLESS OTHERWISE NOTED OR DIRECTED.
8. TEMPORARY OVERLAND WATER SYSTEM INCLUDING INDIVIDUAL SERVICE CONNECTIONS TO BE SUPPLIED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH CITY OF LONDON SUPPLEMENTAL STANDARDS FOR SEWER AND WATER. SEE DRAWING OW1 FOR TEMPORARY OVERLAND WATER SYSTEM DETAILS.

EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION

DETAILS		No.	REVISIONS	DATE	CONSULTANT
DESIGN	DCC/JMP	0.	ISSUED FOR TENDER	NOVEMBER 2023	AECOM
DRAWN BY	JMP				
CHECKED	DCC				
APPROVED	JJK				
DATE	NOV. 2023				

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ENGINEER'S STAMP

LICENSED PROFESSIONAL ENGINEER
J. J. KELSO
100116390
11/08/2023
PROVINCE OF ONTARIO

London CANADA

CORPORATION OF THE CITY OF LONDON

SCALE
1 : 1000

DOWNTOWN SEWER SEPARATION PHASE 4
YORK STREET - CLARENCE STREET TO COLBORNE STREET
WELLINGTON STREET - BATHURST STREET TO KING STREET

WATER AREA PLAN

PROJECT No. 60688424

SHEET No. AP6

PLAN FILE No.

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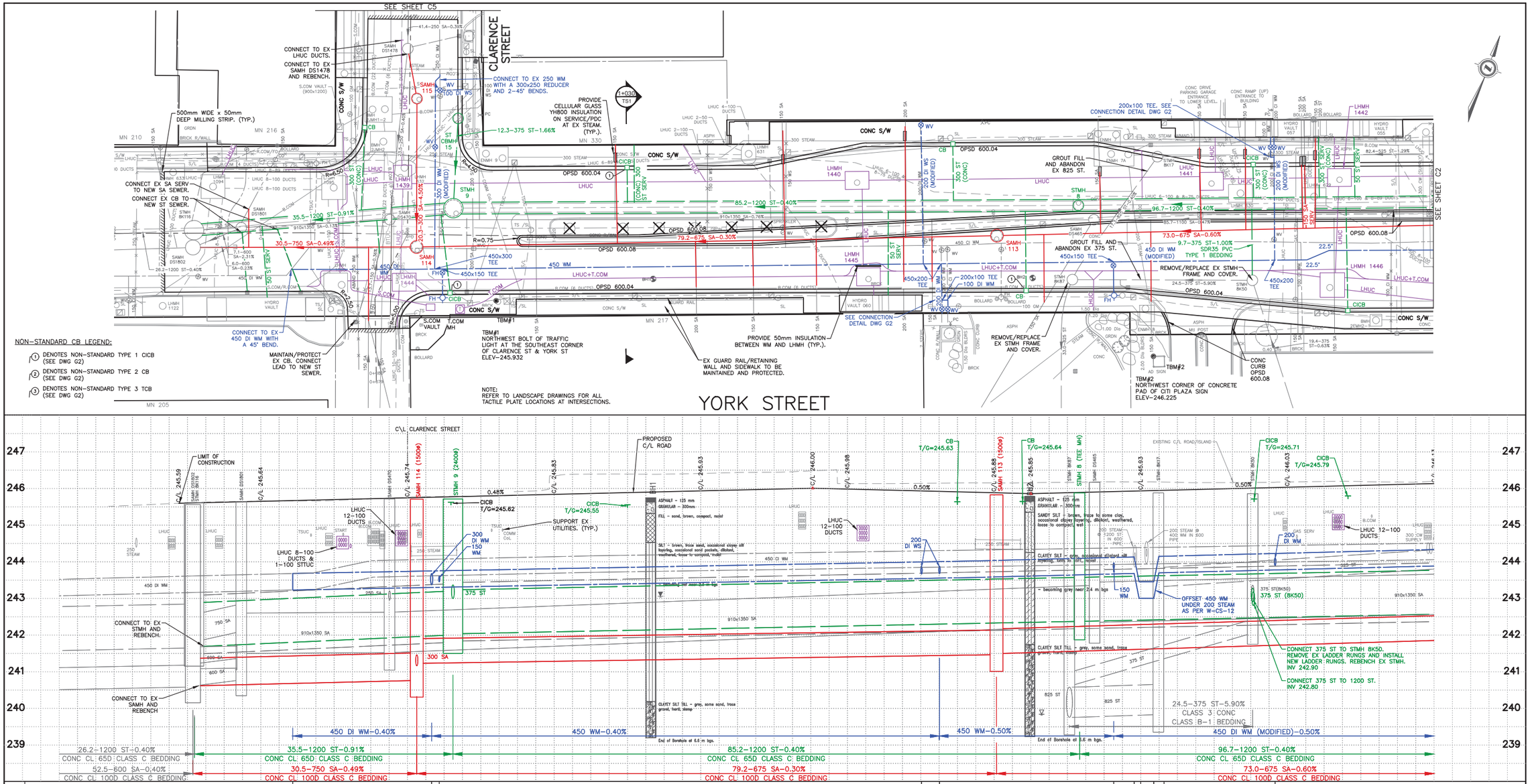
FOR DISPLAY PURPOSES ONLY



EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION

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CHECKED	DCC
APPROVED	JJK
DATE	NOV. 2023

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LICENSED PROFESSIONAL ENGINEER
J. J. KELSO
100116390
11/08/2023
PROVINCE OF ONTARIO

CORPORATION OF THE CITY OF LONDON
London CANADA

SCALE
HORIZONTAL – 1:250
2.5 0 5m
VERTICAL – 1:50
0.5 0 1m

DOWNTOWN SEWER SEPARATION PHASE 4
YORK STREET - CLARENCE STREET TO COLBORNE STREET
WELLINGTON STREET - BATHURST STREET TO KING STREET

YORK STREET
FROM CLARENCE STREET TO 1+140

PROJECT No. 60688424
SHEET No. C1
PLAN FILE No.

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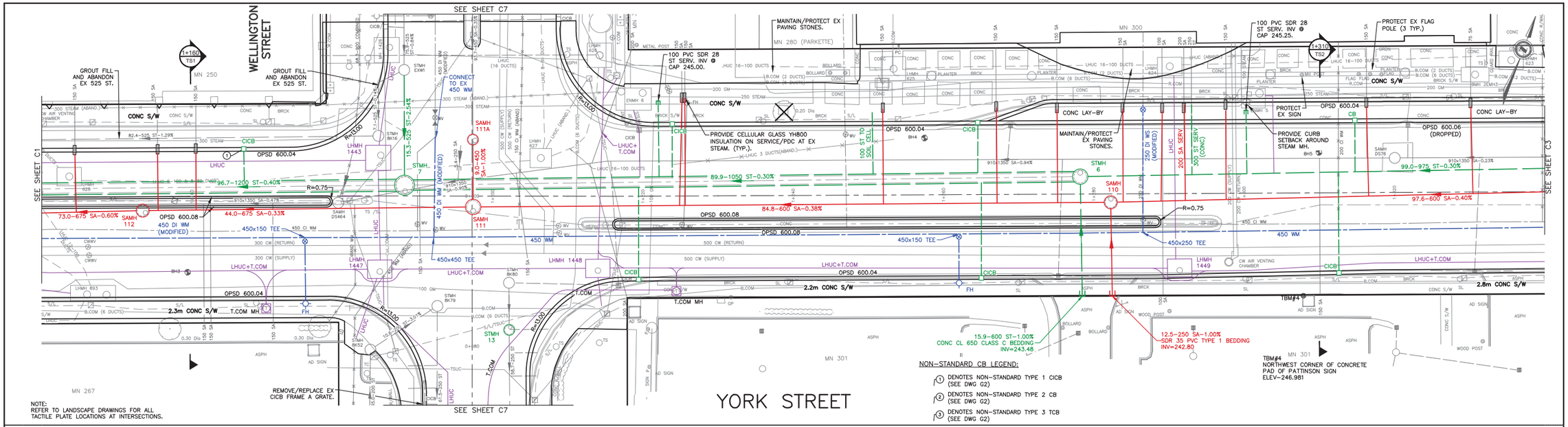
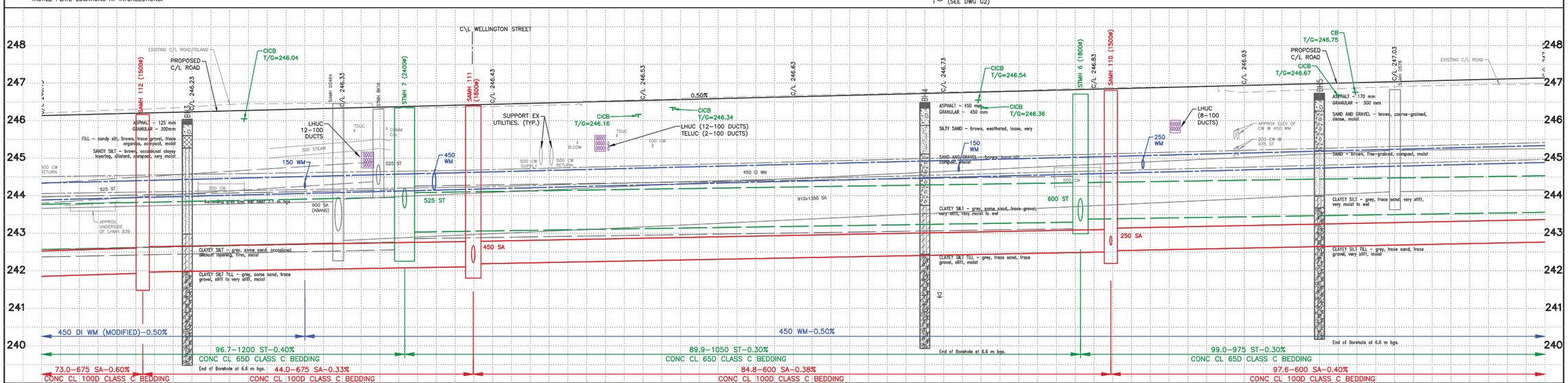
FOR DISPLAY PURPOSES ONLY





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CORPORATION OF THE CITY OF LONDON

London CANADA

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HORIZONTAL-1:250
2.5 0 5m
VERTICAL-1:50
0.5 0 1m

DOWNTOWN SEWER SEPARATION PHASE 4
YORK STREET - CLARENCE STREET TO COLBORNE STREET
WELLINGTON STREET - BATHURST STREET TO KING STREET

YORK STREET
FROM 1+140 TO 1+340

PROJECT No. 60688424

SHEET No. C2

PLAN FILE No.

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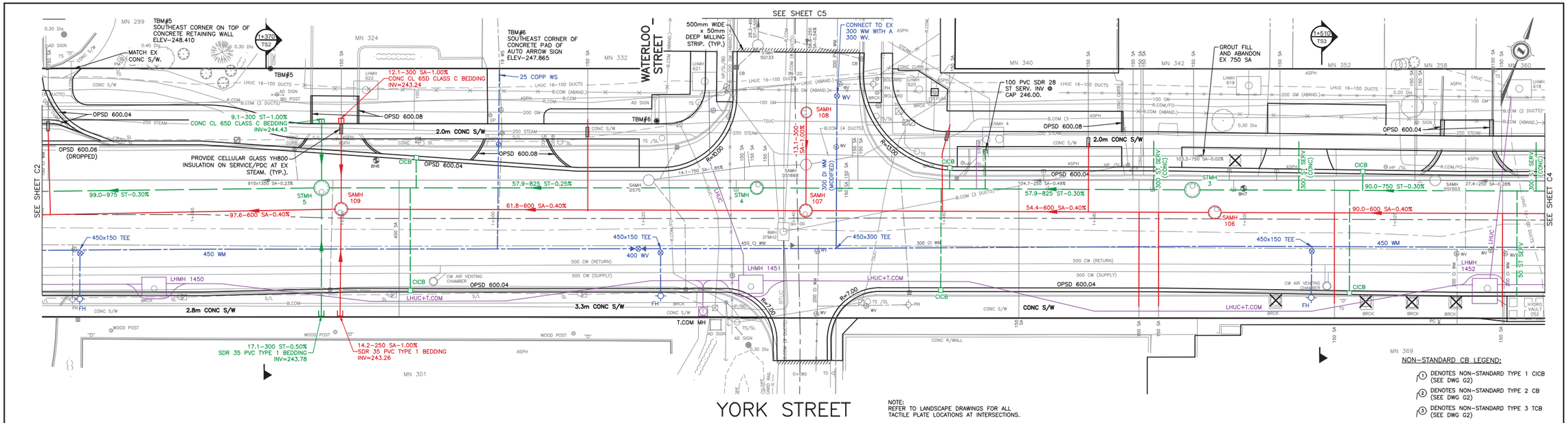

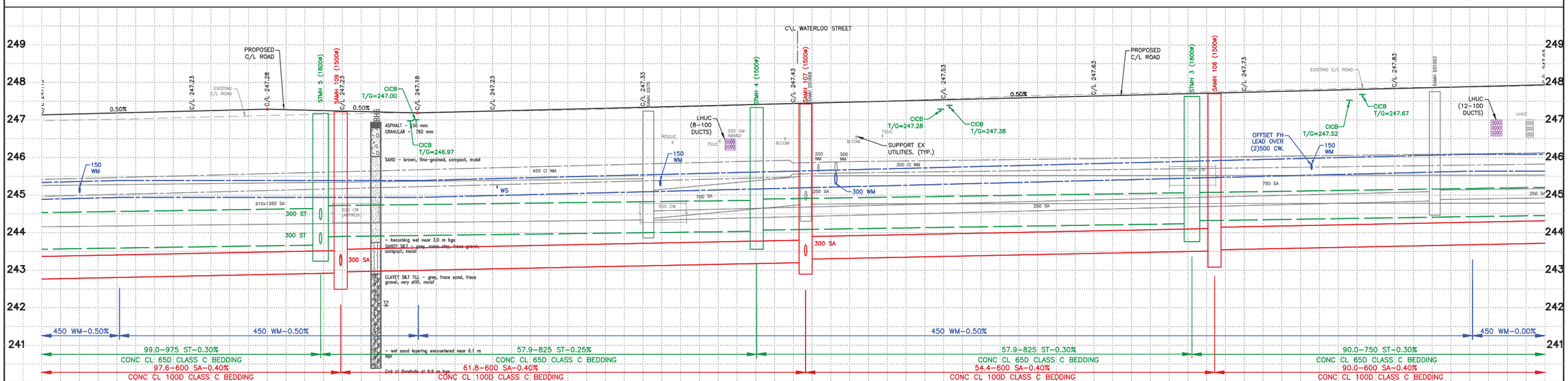

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CHECKED	DCC				
APPROVED	JJK				
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100116390
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PROVINCE OF ONTARIO

CORPORATION OF THE CITY OF LONDON
London CANADA

SCALE
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2.5 0 5m
VERTICAL – 1:50
0.5 0 1m

DOWNTOWN SEWER SEPARATION PHASE 4
YORK STREET - CLARENCE STREET TO COLBORNE STREET
WELLINGTON STREET - BATHURST STREET TO KING STREET

YORK STREET
FROM 1+340 TO 1+540

PROJECT No. 60688424
SHEET No. C3
PLAN FILE No.

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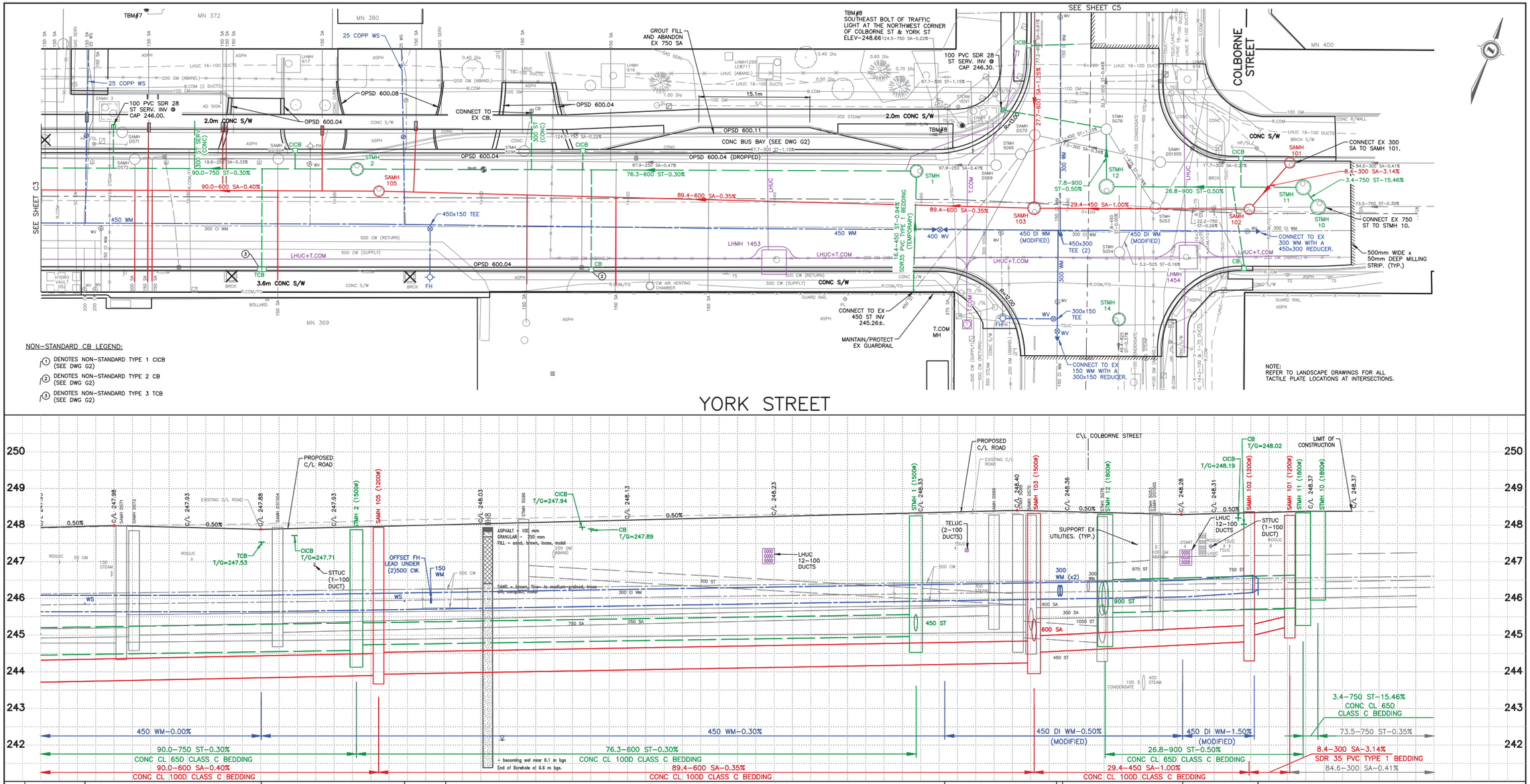

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CHECKED	DCC
APPROVED	JJK
DATE	NOV. 2023

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CORPORATION OF THE CITY OF LONDON
London CANADA

SCALE
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2.5 0 5m
VERTICAL-1:50
0.5 0 1m

DOWNTOWN SEWER SEPARATION PHASE 4
YORK STREET - CLARENCE STREET TO COLBORNE STREET
WELLINGTON STREET - BATHURST STREET TO KING STREET

YORK STREET
FROM 1+540 TO COLBORNE STREET

PROJECT No. 60688424
SHEET No. C4
PLAN FILE No.

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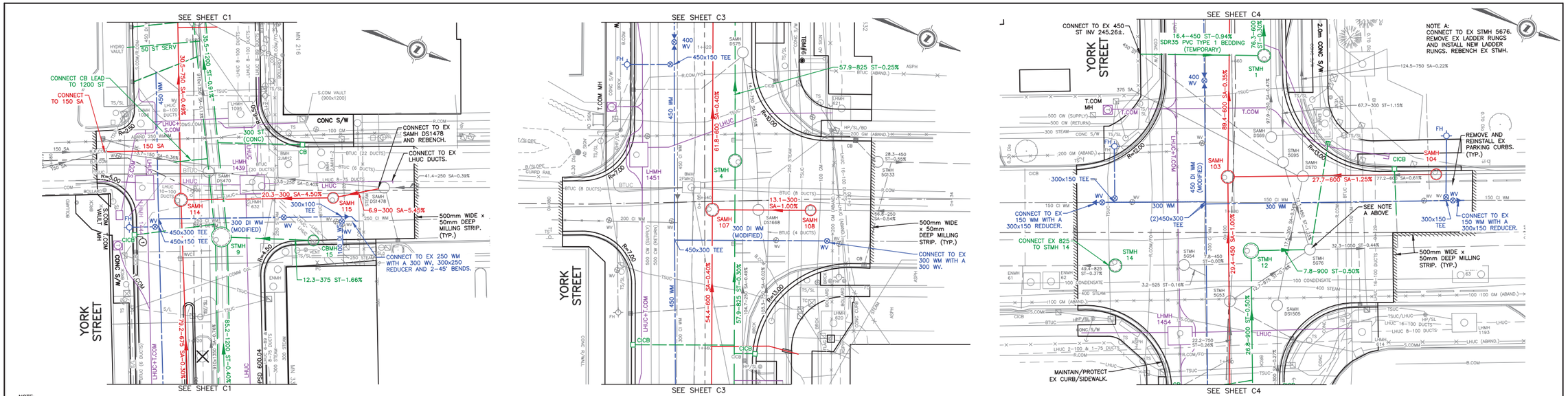
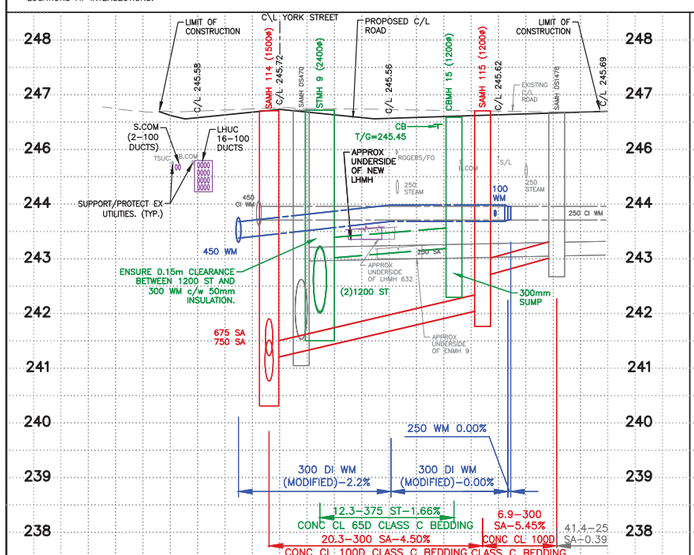
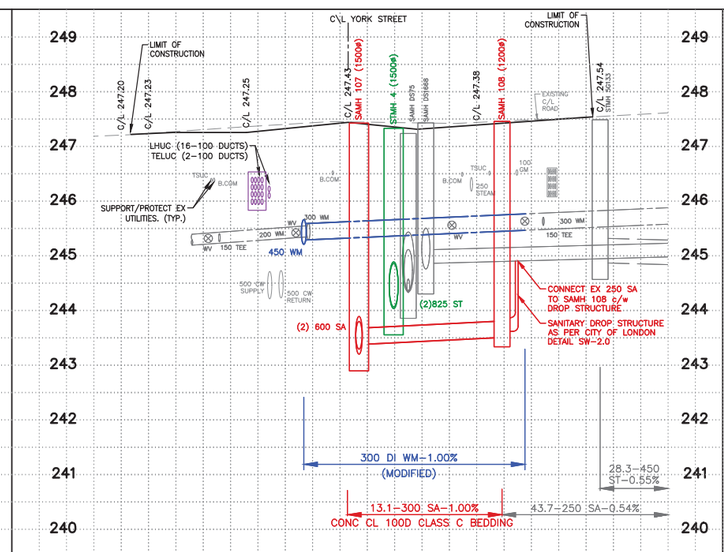
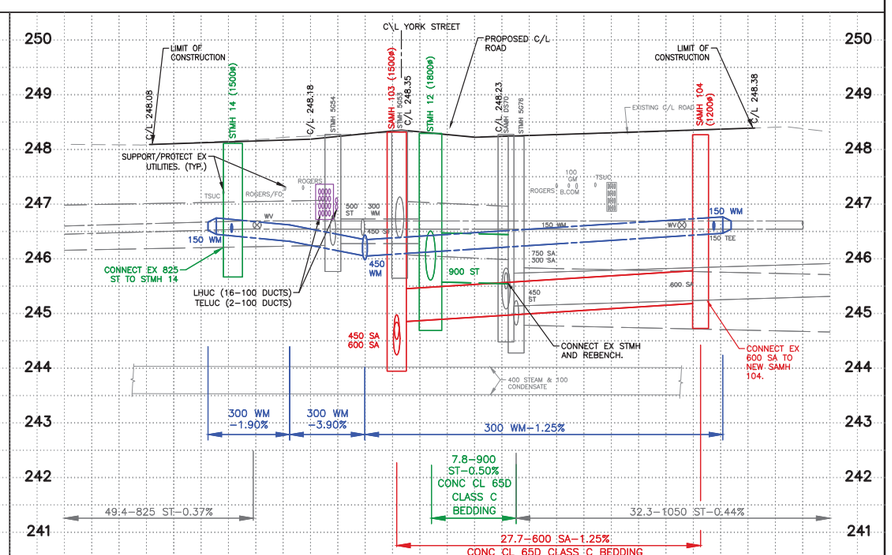


NOTE:
REFER TO LANDSCAPE DRAWINGS FOR ALL TACTILE PLATE LOCATIONS AT INTERSECTIONS.







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C/L WATERMAIN ELEVATION	243.52			243.83			243.83	243.83		245.43					245.63			
STORM SEWER INVERT			241.998S 242.028E 242.989N			243.192S							244.028W 244.058E				244.86N	
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STATION	0+080	0+083.13	0+085.29	0+085.41	0+090.60	0+097.48	0+100 0+100.38	1+685.16	0+111.30	0+120	0+128.16	0+129.38	0+130.96	0+140
C/L WATERMAIN ELEVATION	246.59	246.56		246.46		246.20		246.60	246.61					
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SANITARY SEWER INVERT							244.235W 244.835N 244.519E				245.183S 245.241N			

EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION

DETAILS	
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APPROVED	JJK
DATE	NOV. 2023

No.	REVISIONS	DATE	CONSULTANT
0.	ISSUED FOR TENDER	NOVEMBER 2023	AECOM

CONSULTANT OR DIVISION

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519.673.0510

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ENGINEER'S STAMP
LICENSED PROFESSIONAL ENGINEER
J. J. KELSO
100116390
11/08/2023
PROVINCE OF ONTARIO

London CANADA
CORPORATION OF THE CITY OF LONDON

SCALE
HORIZONTAL-1:250
2.5 0 5m
VERTICAL-1:50
0.5 0 1m

DOWNTOWN SEWER SEPARATION PHASE 4
YORK STREET - CLARENCE STREET TO COLBORNE STREET
WELLINGTON STREET - BATHURST STREET TO KING STREET

CLARENCE STREET, WATERLOO STREET AND COLBORNE STREET

PROJECT No. 60688424
SHEET No. C5
PLAN FILE No.

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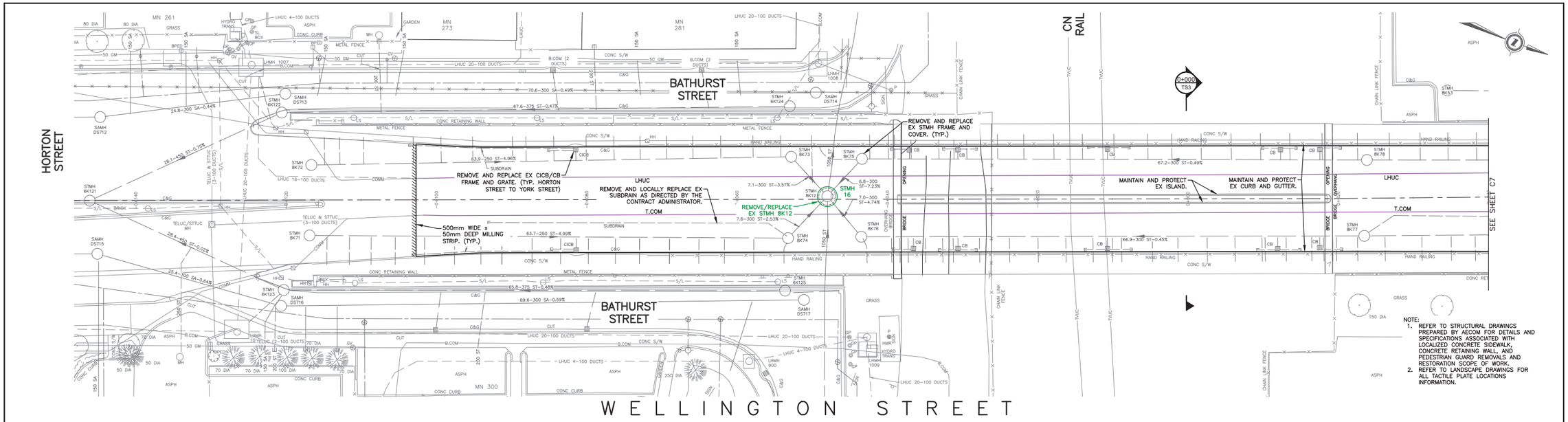
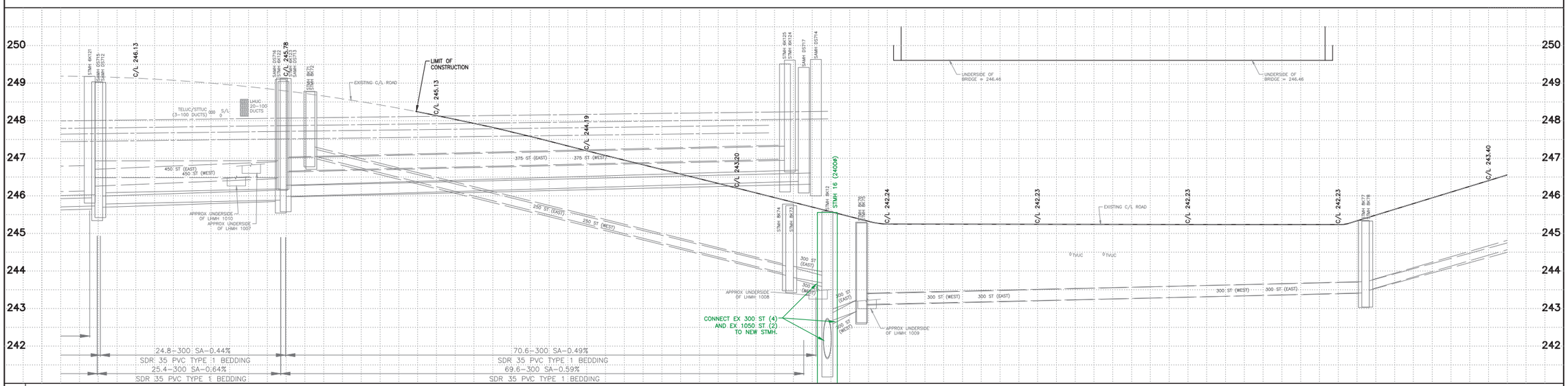
FOR DISPLAY PURPOSES ONLY





STATION	SANITARY (SDR) INVERT	STORM (SDR) INVERT	C/L WATERMAIN ELEVATION
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0+145.9	242.69N	243.49N	
0+144.72	242.73S	243.24W	
	242.77NW		
0+140			
0+120.71	242.86S	243.46SE	
0+120.54	242.97N	243.62N	
0+120.36	242.95S	243.48S	
0+120	242.86N	243.63N	
0+116.84		244.08N	
0+116.64		244.01N	
0+100			
0+080			
0+060			
0+053.52		240.90S	
0+053.36		240.84NW	
0+052.76		240.84S	
0+051.12	243.38S	240.79NE	
0+049.50	243.30S	238.68SW	
0+049.33		240.54GSW	
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		238.49SE	
0+043.48		239.96W	
0+043.33		240.10N	
0+040		240.00S	
		240.08N	
0+020			
0+000			
0+020		240.40S	
		240.44N	
0+023.86		240.41S	
0+023.51		240.57N	
0+040			

EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION

DETAILS	
DESIGN	DCC/JMP
DRAWN BY	JMP
CHECKED	DCC
APPROVED	JJK
DATE	NOV. 2023

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J.J.KELSO
100116390
11/08/2023
PROVINCE OF ONTARIO

CORPORATION OF THE CITY OF LONDON
London CANADA

SCALE
HORIZONTAL – 1:250
2.5 0 5m
VERTICAL – 1:50
0.5 0 1m

DOWNTOWN SEWER SEPARATION PHASE 4
YORK STREET - CLARENCE STREET TO COLBORNE STREET
WELLINGTON STREET - BATHURST STREET TO KING STREET

WELLINGTON STREET

PROJECT No. 60688424
SHEET No. C6
PLAN FILE No.

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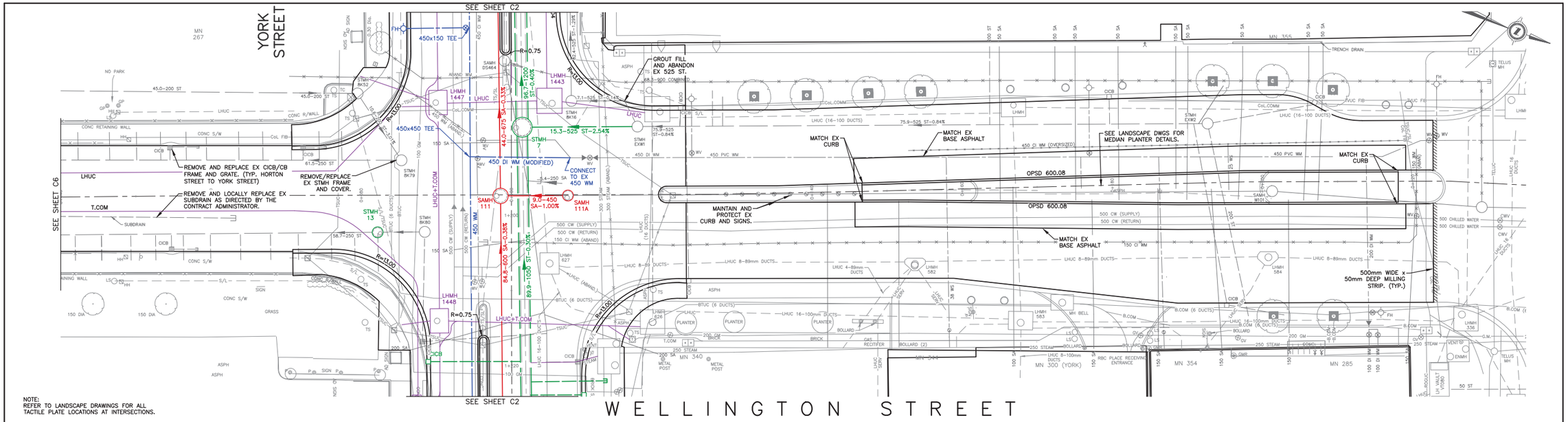
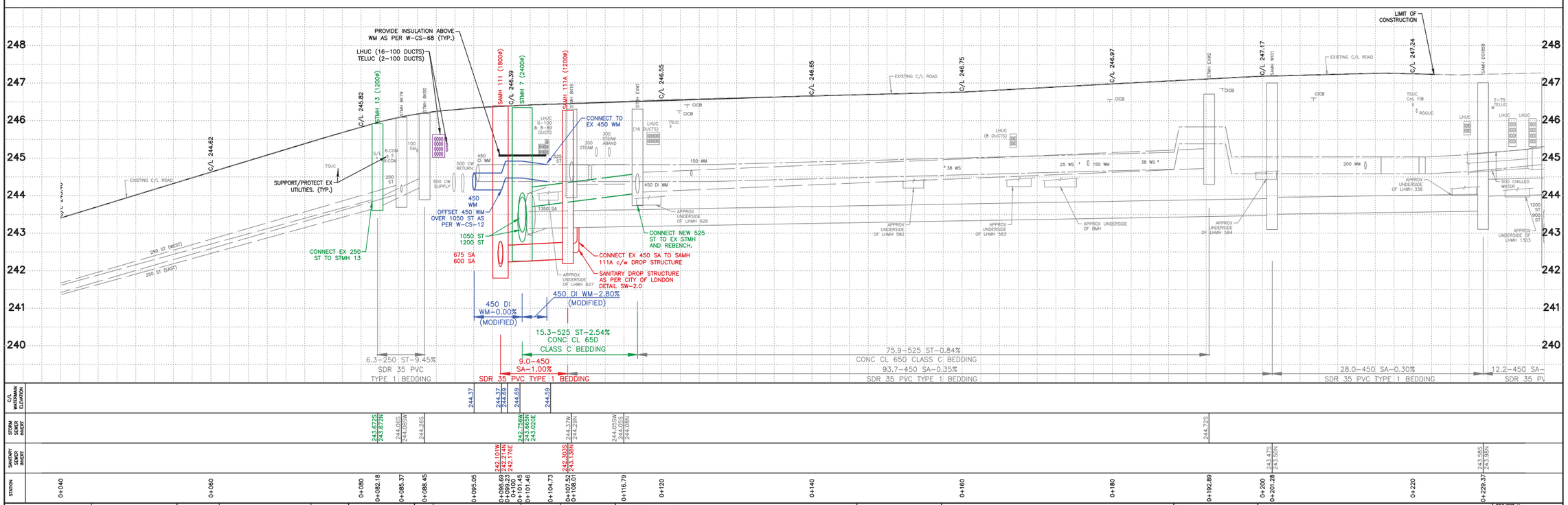
FOR DISPLAY PURPOSES ONLY





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2.5 0 5m
VERTICAL-1:50
0.5 0 1m

DOWNTOWN SEWER SEPARATION PHASE 4
YORK STREET - CLARENCE STREET TO COLBORNE STREET
WELLINGTON STREET - BATHURST STREET TO KING STREET

WELLNGTON STREET

PROJECT No. 60688424
SHEET No. C7
PLAN FILE No.

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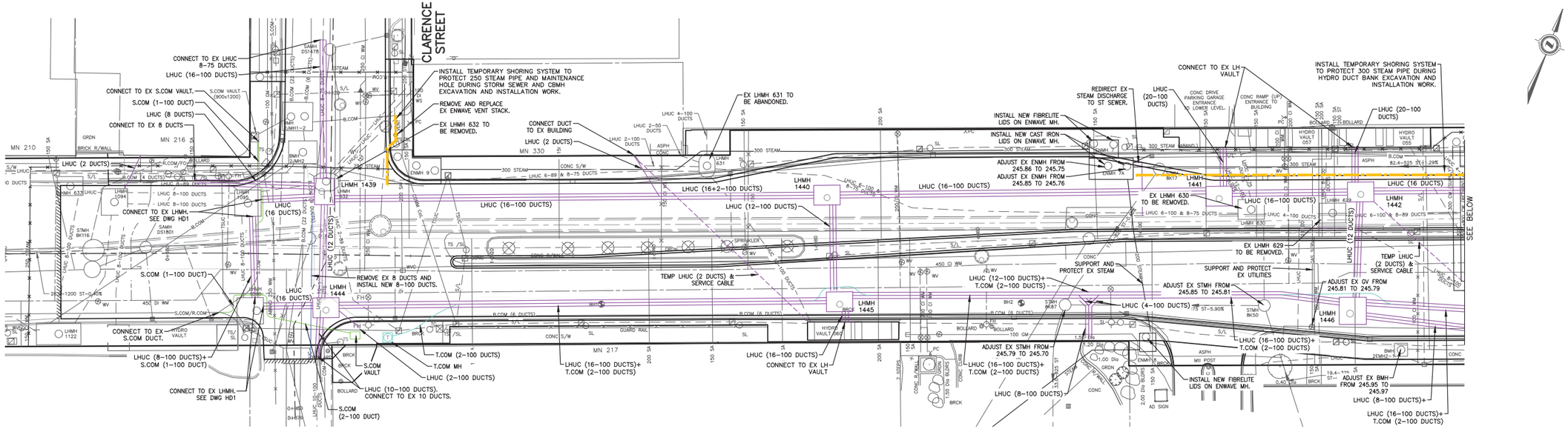

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2.5 0 5m

DOWNTOWN SEWER SEPARATION PHASE 4
YORK STREET - CLARENCE STREET TO COLBORNE STREET
WELLINGTON STREET - BATHURST STREET TO KING STREET

UTILITIES PLAN
FROM 0+960 TO 1+340

PROJECT No. 60688424
SHEET No. UP1
PLAN FILE No.

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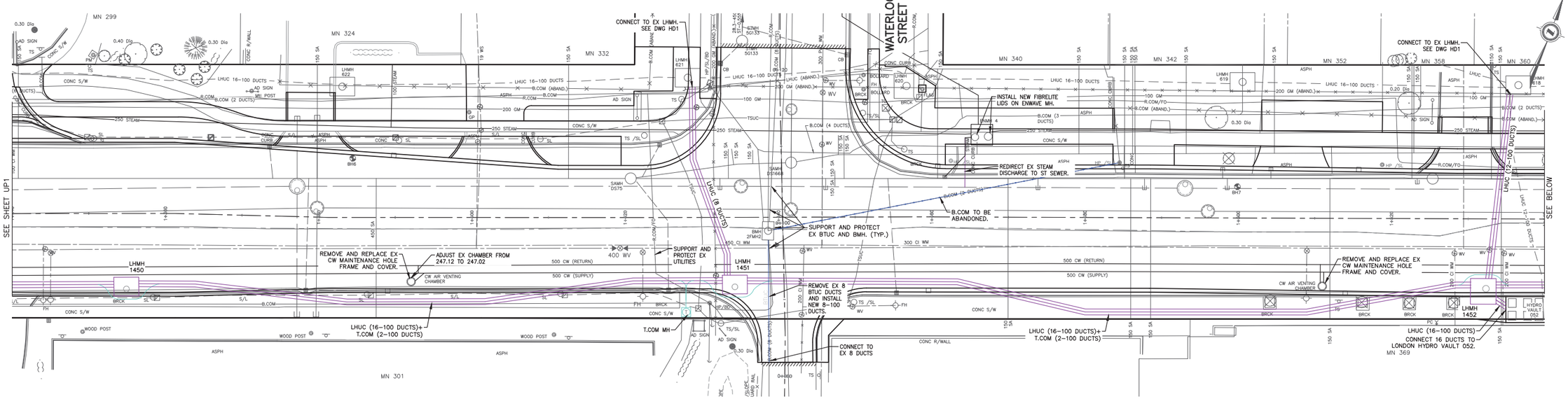

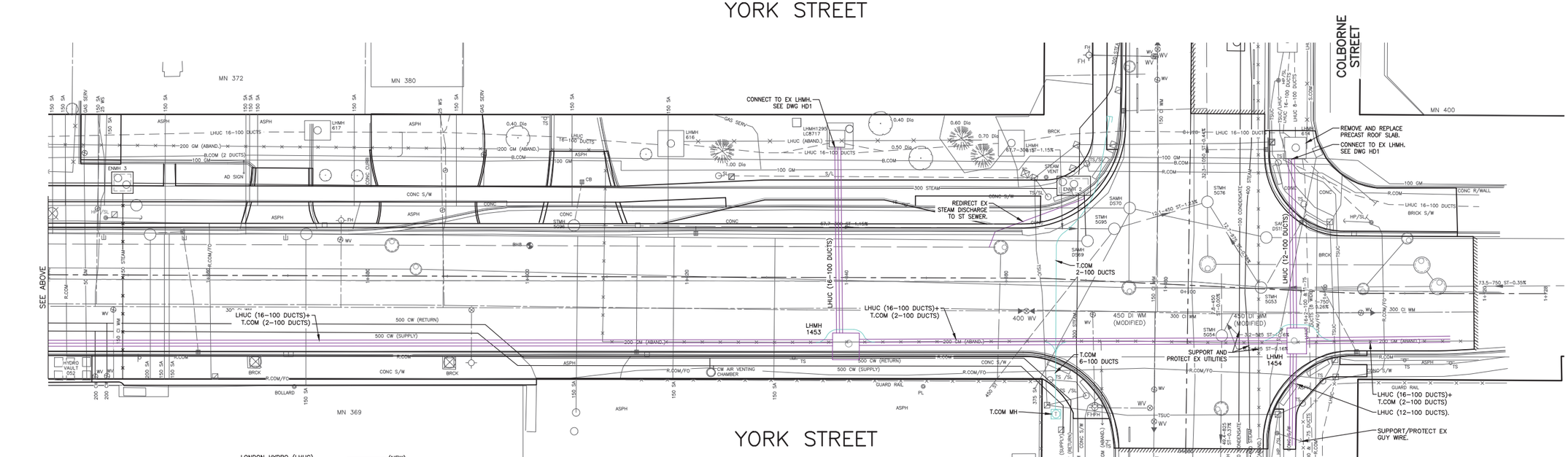

APPROXIMATE LIMIT OF TEMPORARY SUPPORT/SHORING ADJACENT TO EXISTING HIGH PRESSURE STEAM PIPING (ENWAVE)

LONDON HYDRO (LHUC) — (NEW) — (NEW TEMP)

ROGERS (ROGUC) — (NEW)

TELUS (TELUC) — (NEW)

BELL (BTUC) NOTES: — (NEW)

1. FOR ADDITIONAL CONSTRUCTION NOTES AND DETAILS, SEE BELL DRAWING BELL23-027, COMPLETED BY UTS SEPTEMBER 25, 2023.

EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION

DETAILS	
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CHECKED	DCC
APPROVED	JJK
DATE	NOV. 2023

No.	REVISIONS	DATE	CONSULTANT
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11/08/2023
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London CANADA
CORPORATION OF THE CITY OF LONDON

SCALE
HORIZONTAL – 1:250
2.5 0 5m

DOWNTOWN SEWER SEPARATION PHASE 4
YORK STREET - CLARENCE STREET TO COLBORNE STREET
WELLINGTON STREET - BATHURST STREET TO KING STREET

UTILITIES PLAN
FROM 1+340 TO COLBORNE STREET

PROJECT No. 60688424
SHEET No. UP2
PLAN FILE No.

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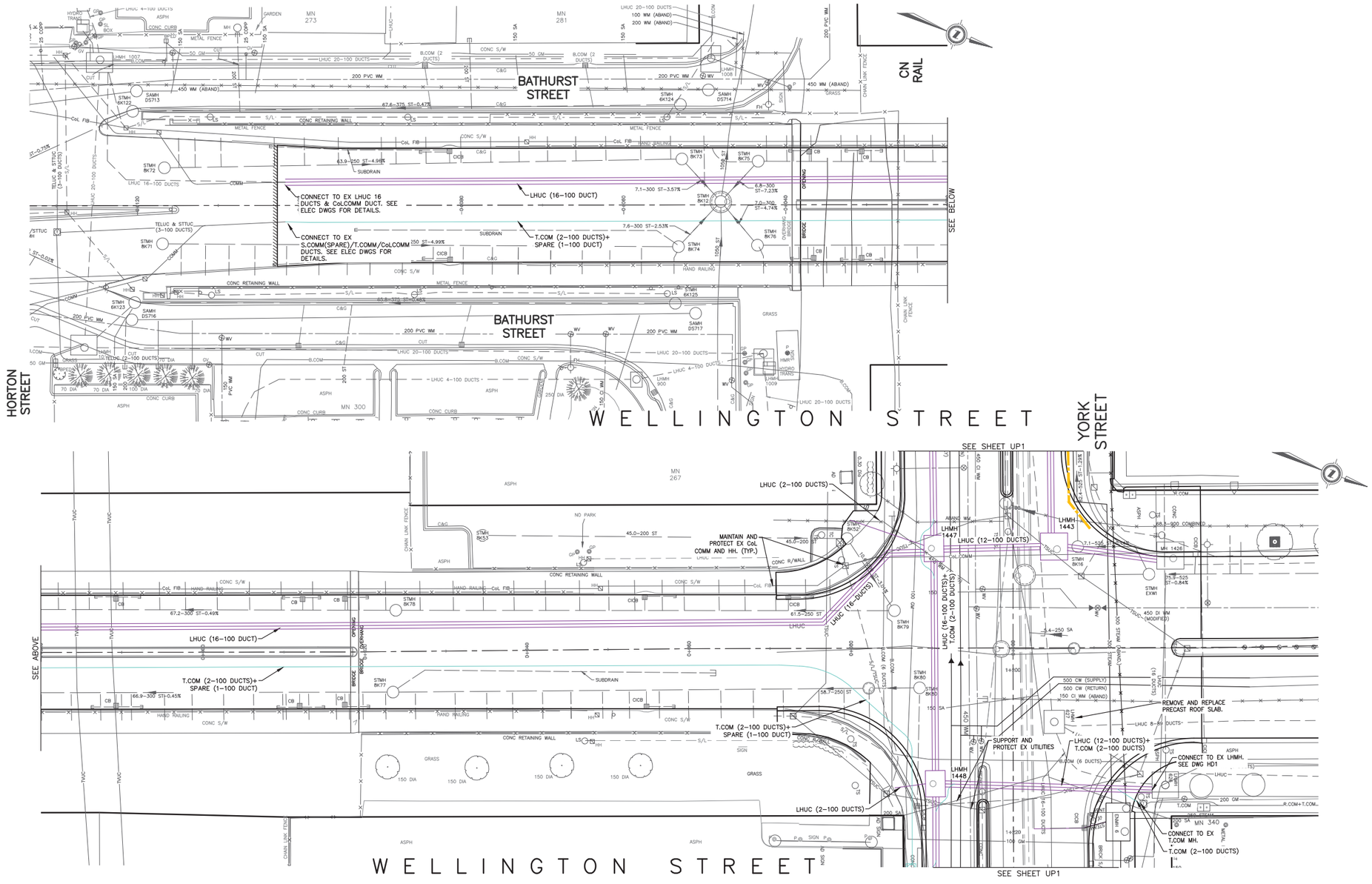

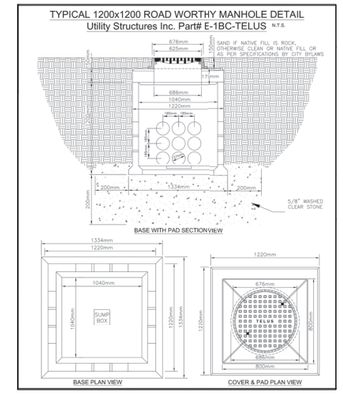

TYPICAL TELUS MAINTENANCE HOLE DETAIL

APPROXIMATE LIMIT OF TEMPORARY SUPPORT/SHORING ADJACENT TO EXISTING HIGH PRESSURE STEAM PIPING (ENWAVE)

LONDON HYDRO (LHUC) — (NEW) / (NEW TEMP)

ROGERS (ROGUC) — (NEW)

TELUS (TELUC) — (NEW)

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DETAILS	
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APPROVED	JJK
DATE	NOV. 2023

No.	REVISIONS	DATE	CONSULTANT
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SCALE
HORIZONTAL – 1:250
2.5 0 5m

DOWNTOWN SEWER SEPARATION PHASE 4
YORK STREET - CLARENCE STREET TO COLBORNE STREET
WELLINGTON STREET - BATHURST STREET TO KING STREET

UTILITIES PLAN
WELLINGTON STREET

PROJECT No. 60688424
SHEET No. UP3
PLAN FILE No.

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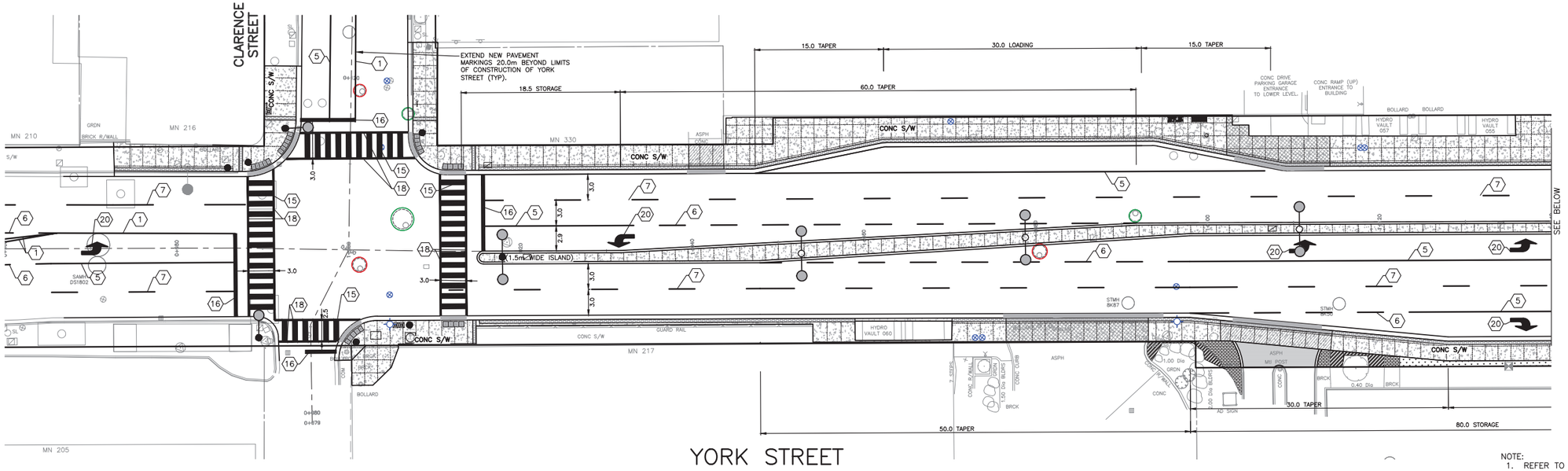
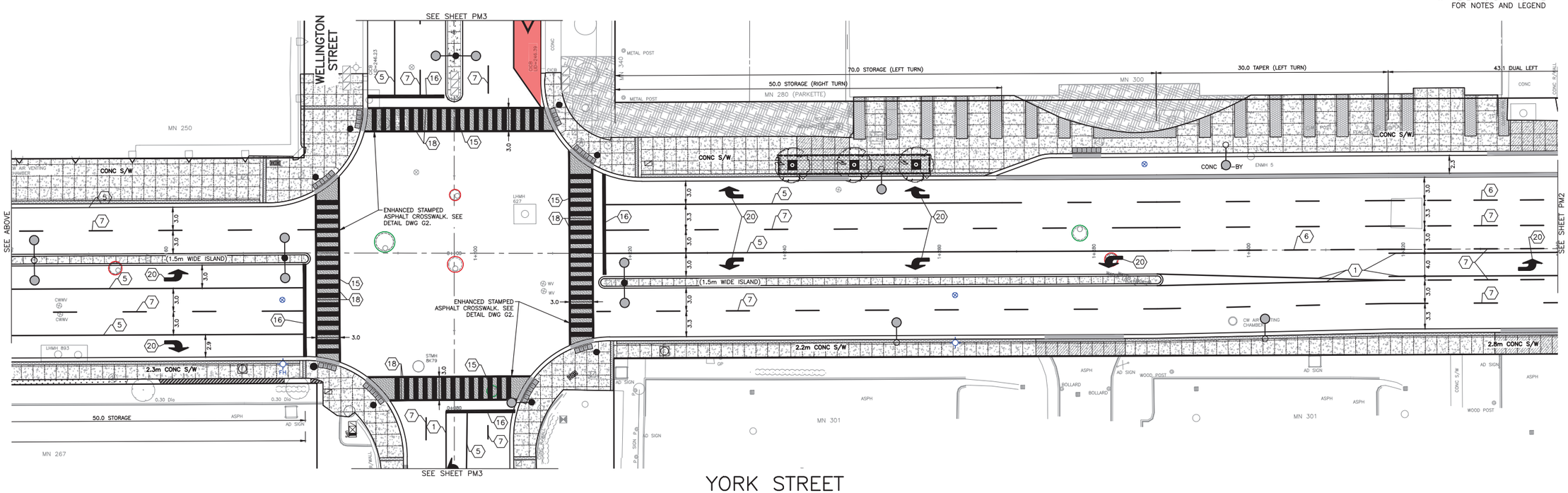


NOTE:
1. REFER TO DRAWING PM2 FOR NOTES AND LEGEND



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HORIZONTAL – 1:250
2.5 0 5m

DOWNTOWN SEWER SEPARATION PHASE 4
YORK STREET - CLARENCE STREET TO COLBORNE STREET
WELLINGTON STREET - BATHURST STREET TO KING STREET

PAVEMENT MARKING PLAN
FROM 0+960 TO 1+340

PROJECT No. 60688424
SHEET No. PM1
PLAN FILE No.

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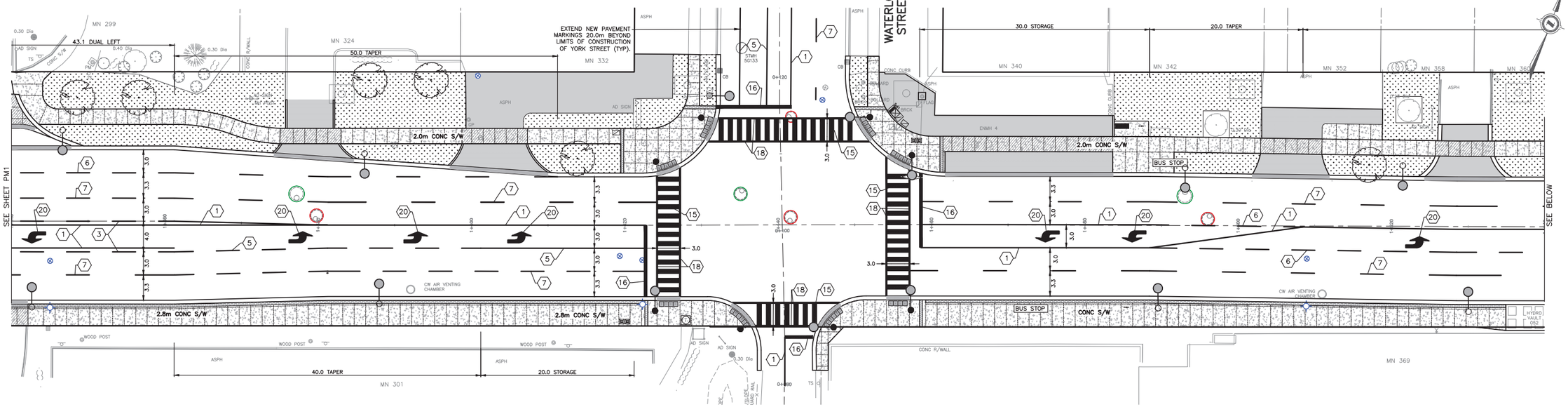

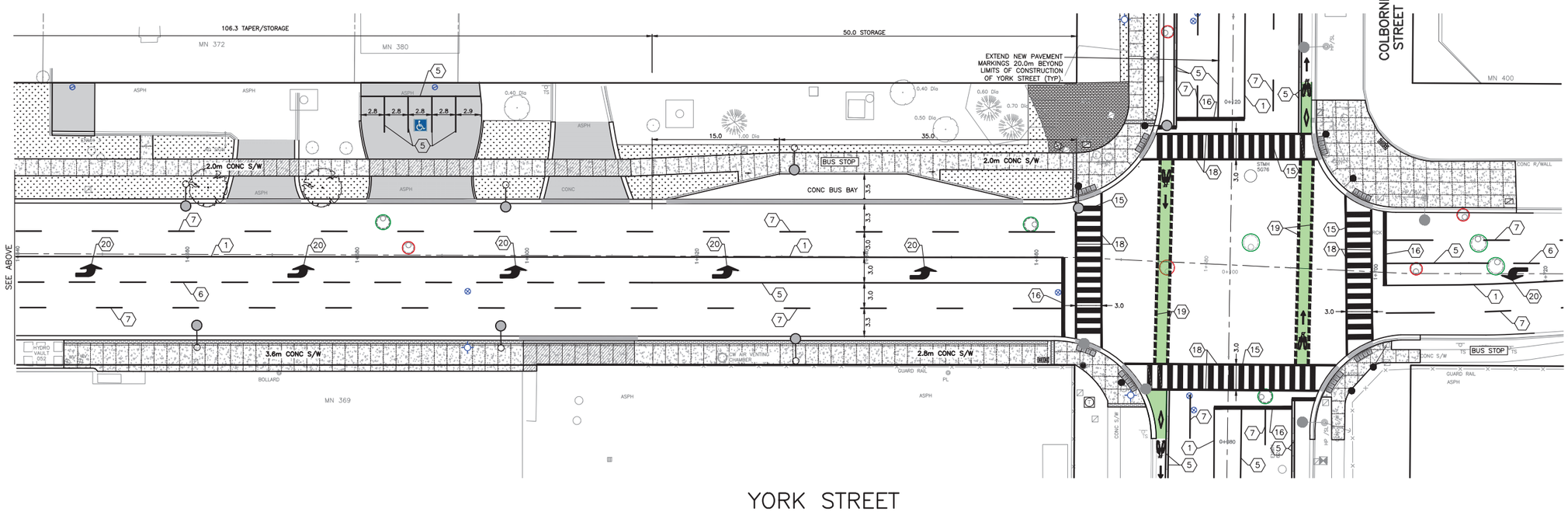

LINE MARKING LEGEND

1	SOLID YELLOW, 10cm
3	333 BROKEN YELLOW, 10cm
5	SOLID WHITE, 10cm
6	333 BROKEN WHITE, 10cm
7	363 BROKEN WHITE, 10cm
10	111 BROKEN WHITE, 10cm
15	SOLID WHITE, 60cm
16	SOLID WHITE, 40cm
17	SOLID WHITE, 10cm CROSSWALK
18	SOLID WHITE, 20cm CROSSWALK
19.	ELEPHANTS FEET, 40cm CROSSRIDE
21.	SOLID WHITE, 20cm BUS LANE AS PER OTM BOOK 11

20. VARIOUS SYMBOLS

- PROPOSED TURN ARROW
- PROPOSED BIKE LANE GREEN BOX
- EXISTING TURN ARROW
- PROPOSED BIKE LANE SYMBOL

NOTES:

1. 111, DENOTES PAVEMENT MARKING SPACING (IE., 1m LINE, 1m GAP, 1m LINE)
2. USE (1) TO DENOTE PAVEMENT MARKING
3. LANE MARKING DIMENSION ARE CENTRELINE TO CENTRELINE OR EDGE OF ASPHALT TO CENTRELINE.
4. GREEN SURFACE TREATMENT, ZEBRA CROSSING MARKINGS AND STOP BARS REQUIRE ANTI-SKID MATERIAL RATED AT 50BPN TO 65BPN.
5. REFER TO TRAFFIC SIGNAL PLANS FOR ADDITIONAL PAVEMENT MARKING INFORMATION.

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PAVEMENT MARKING PLAN
FROM 1+340 TO 1+728

PROJECT No. 60688424
SHEET No. PM2
PLAN FILE No.

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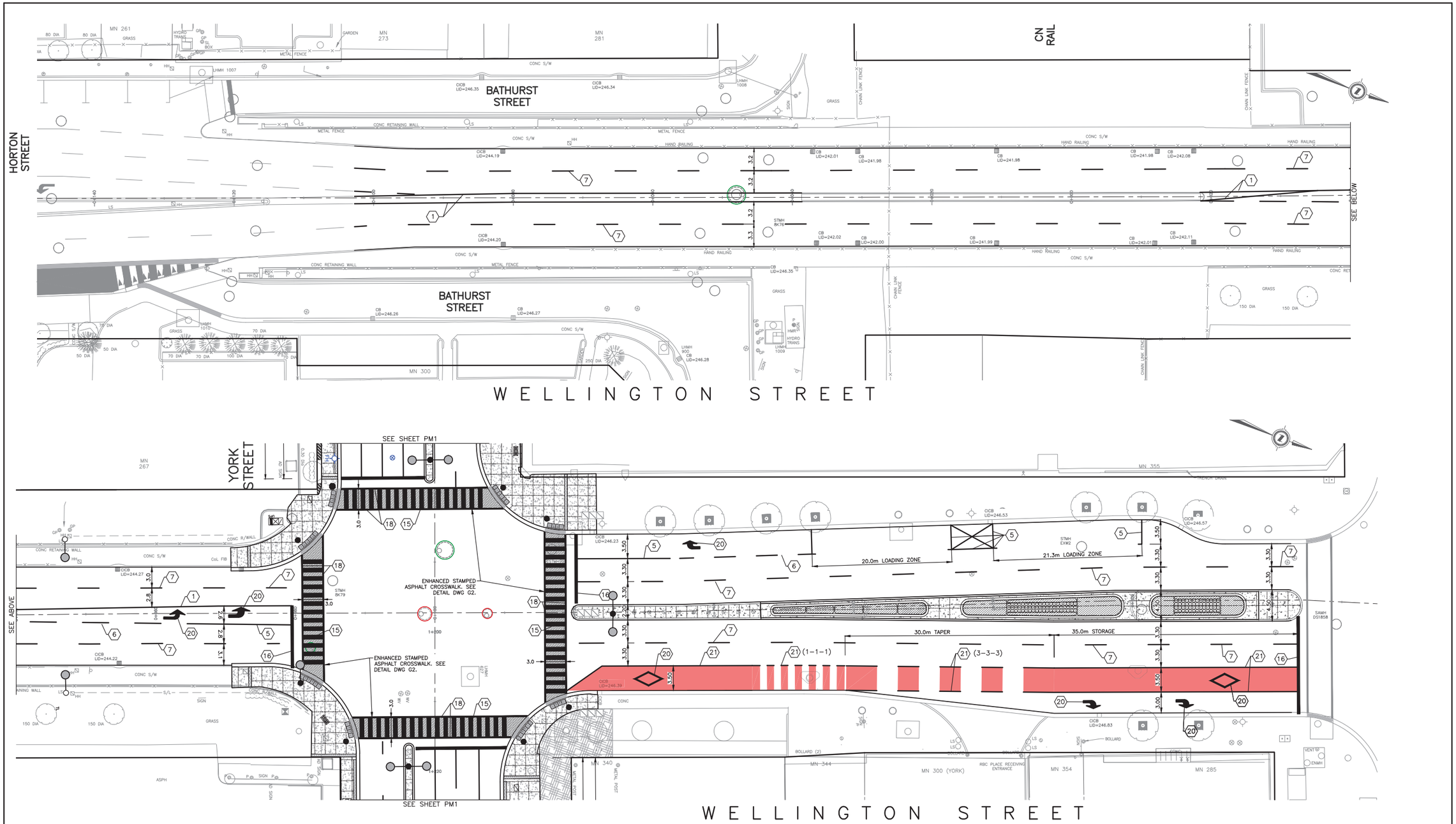

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PAVEMENT MARKING PLAN
WELLINGTON STREET

PROJECT No. 60688424
SHEET No. PM3
PLAN FILE No.

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