# THE CORPORATION OF THE CITY OF NORTH BAY MAIN STREET RECONSTRUCTION CASSELLS STREET TO SHERBROOKE STREET

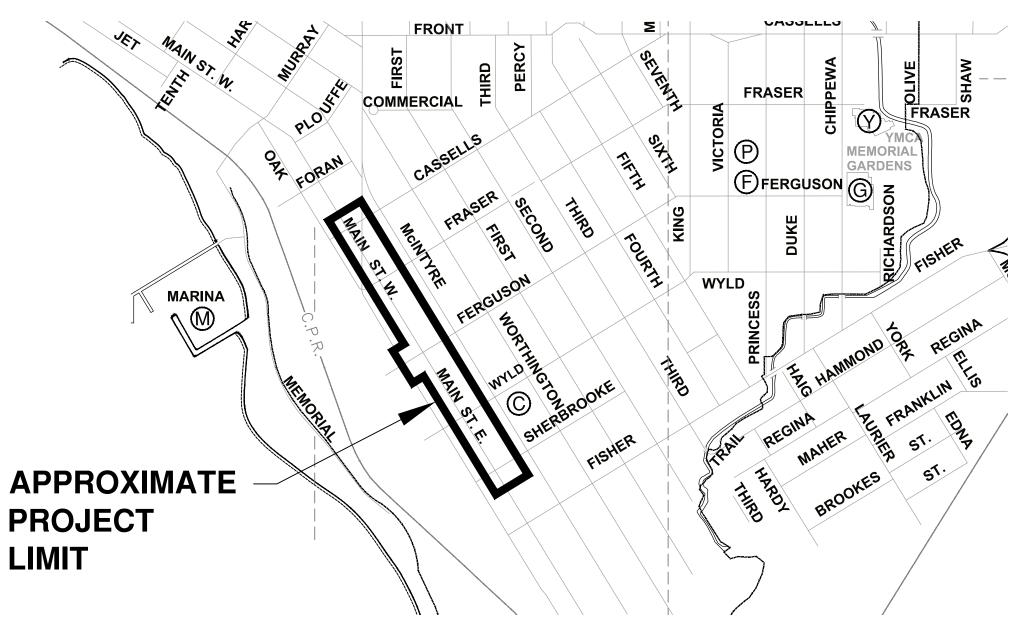
# **TENDER 2023-02**



**April 28, 2023** 

**ISSUED FOR** 

CONSTRUCTION

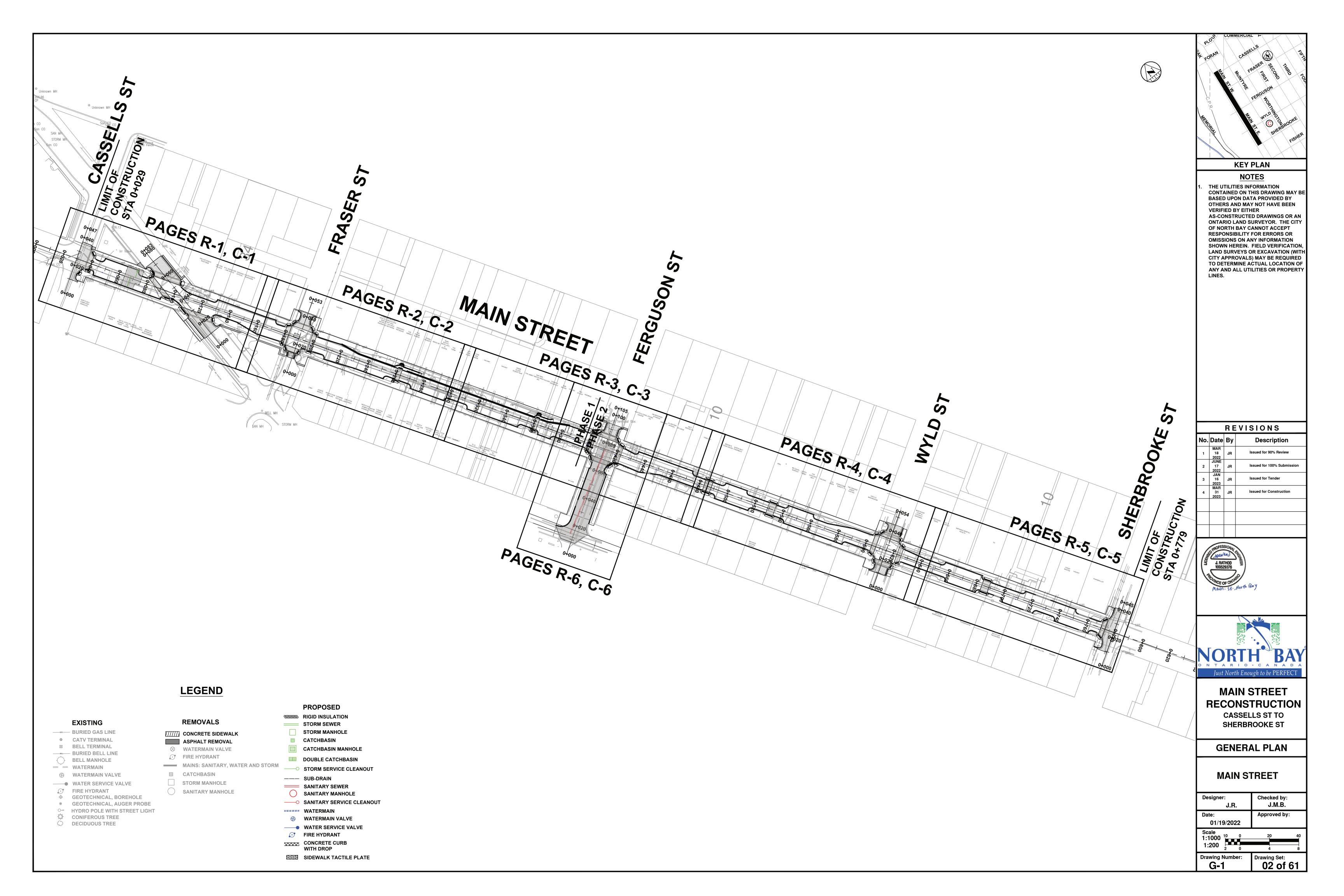


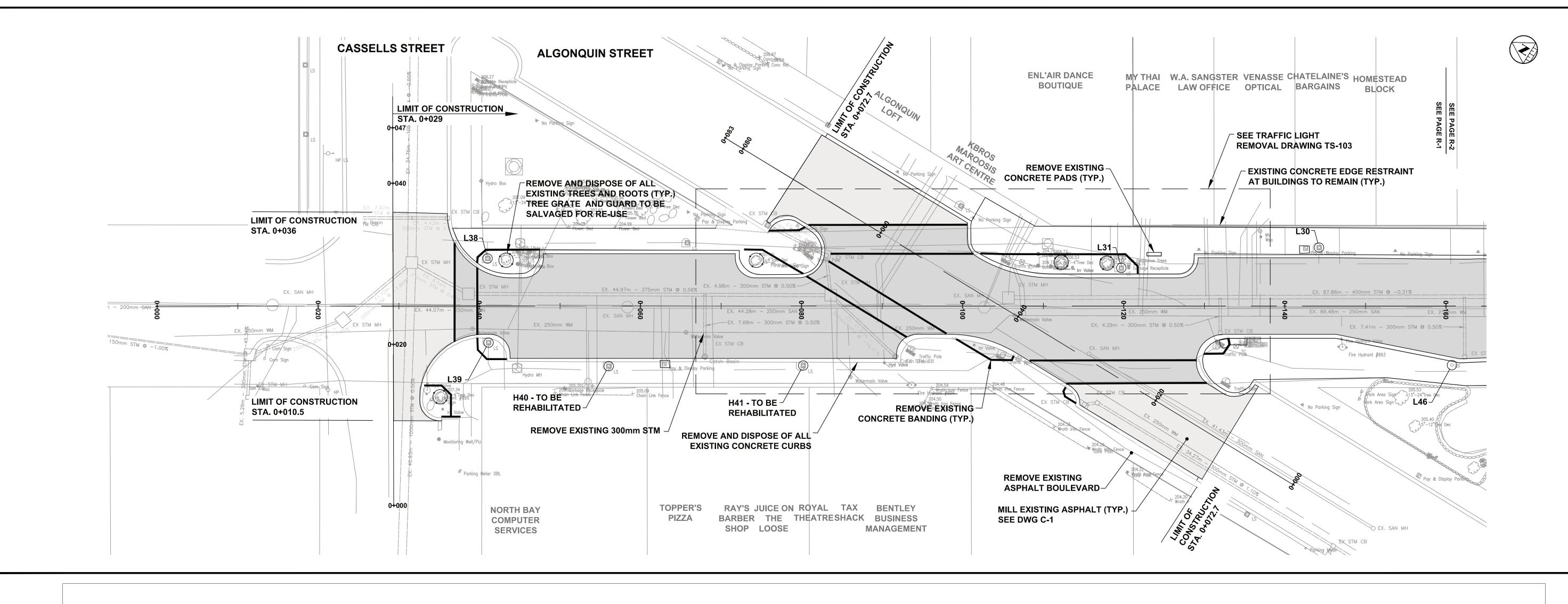
**KEY PLAN** 1:10 000

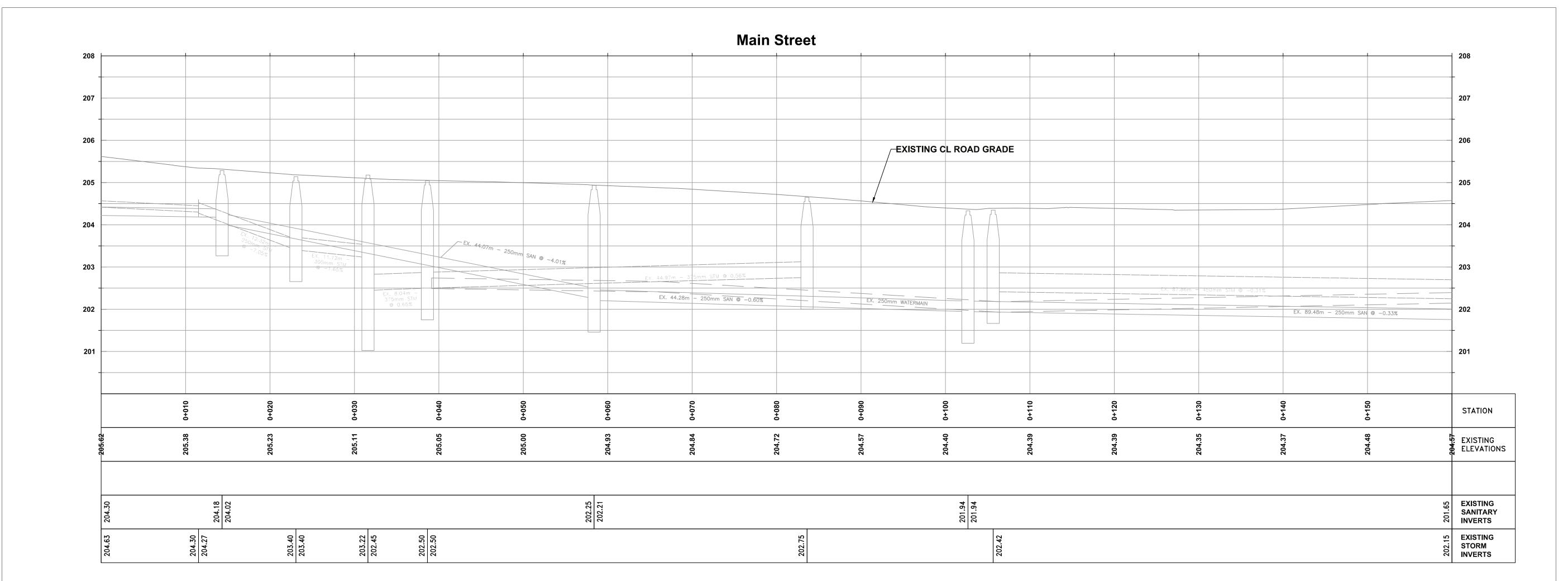
### **LIST OF DRAWINGS:**

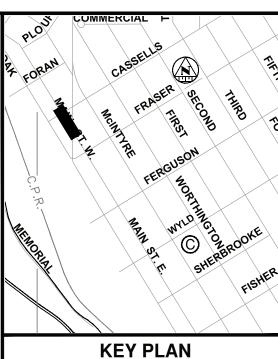
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4	R-2	MAIN STREET, STA. 0+160 TO STA. 0+320	35	TS-101	TRAFFIC SIGNAL LAYOUT - MAIN STREET & ALGONQUIN AVENUE
5	R-3	MAIN STREET, STA. 0+320 TO STA. 0+480	36	TS-201	TRAFFIC SIGNAL LAYOUT - MAIN STREET & FRASER STREET
6	R-4	MAIN STREET, STA. 0+480 TO STA. 0+640	37	TS-301	TRAFFIC SIGNAL LAYOUT - MAIN STREET & FERGUSON STREET
7	R-5	MAIN STREET, STA. 0+640 TO SHERBROOKE STREET	38	TS-401	TRAFFIC SIGNAL LAYOUT - MAIN STREET & WYLD STREET
8	R-6	FERGUSON STREET, OAK STREET TO MAIN STREET	39	TS-501	TRAFFIC SIGNAL LAYOUT - MAIN STREET & OAK STREET
9	C-1	MAIN STREET, CASSELLS STREET TO STA. 0+160	40	TS-102	TRAFFIC SIGNAL SCHEMATIC - MAIN STREET & ALGONQUIN AVENUE
10	C-2	MAIN STREET, STA. 0+160 TO STA. 0+320	41	TS-202	TRAFFIC SIGNAL SCHEMATIC - MAIN STREET & FRASER STREET
11	C-3	MAIN STREET, STA. 0+320 TO STA. 0+480	42	TS-302	TRAFFIC SIGNAL SCHEMATIC - MAIN STREET & FERGUSON STREET
12	C-4	MAIN STREET, STA. 0+480 TO STA. 0+640	43	TS-402	TRAFFIC SIGNAL SCHEMATIC - MAIN STREET & WYLD STREET
13	C-5	MAIN STREET, STA. 0+640 TO SHERBROOKE STREET	44	TS-103	TRAFFIC SIGNAL REMOVAL - MAIN STREET & ALGONQUIN AVENUE
14	C-6	FERGUSON STREET, OAK STREET TO MAIN STREET	45	TS-203	TRAFFIC SIGNAL REMOVAL - MAIN STREET & FRASER STREET
15	PM-1	MAIN STREET, STA. 0+000 TO STA. 0+320	46	TS-303	TRAFFIC SIGNAL REMOVAL - MAIN STREET & FERGUSON STREET
16	PM-2	MAIN STREET, STA. 0+320 TO STA. 0+640	47	TS-403	TRAFFIC SIGNAL REMOVAL - MAIN STREET & WYLD STREET
17	PM-3	MAIN STREET, STA. 0+640 TO STA. 0+780 & FERGUSON STREET	48	EL-01	MAIN STREET ELECTRICAL LAYOUT 1
18	ST-1	STAGING PLANS	49	EL-02	MAIN STREET ELECTRICAL LAYOUT 2
19	ST-2	STAGING DETAILS	50	EL-03	MAIN STREET ELECTRICAL LAYOUT 3
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28	T-1	TREE REMOVAL & PRESERVATION PLAN 1	59	EL-REM-01	MAIN STREET ELECTRICAL REMOVAL 1
29	T-2	TREE REMOVAL & PRESERVATION PLAN 2	60	EL-REM-02	MAIN STREET ELECTRICAL REMOVAL 2
30	T-3	TREE REMOVAL & PRESERVATION PLAN 3	61	EL-REM-03	MAIN STREET ELECTRICAL REMOVAL 3

Just North Enough to be PERFECT









THE UTILITIES INFORMATION

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REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.

SEE DRAWINGS 57-59 FOR ELECTRICAL REMOVALS.

THE CONTRACTOR SHALL VERIFY EXISTING SIGN INVENTORY (SEE DRAWINGS 15-17) PRIOR TO CONSTRUCTION AND REINSTATE THE SIGNS AT THEIR EXISTING LOCATIONS, UNLESS OTHERWISE NOTED.

### REVISIONS

No.	Date	Ву	Description
1	MAR 18 2022	JR	Issued for 90% Review
2	JUNE 17 2022	JR	Issued for 100% Submission
3	JAN 16 2023	JR	Issued for Tender
4	MAR 31 2023	JR	Issued for Construction



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MAIN STREET
ROAD
RECONSTRUCTION

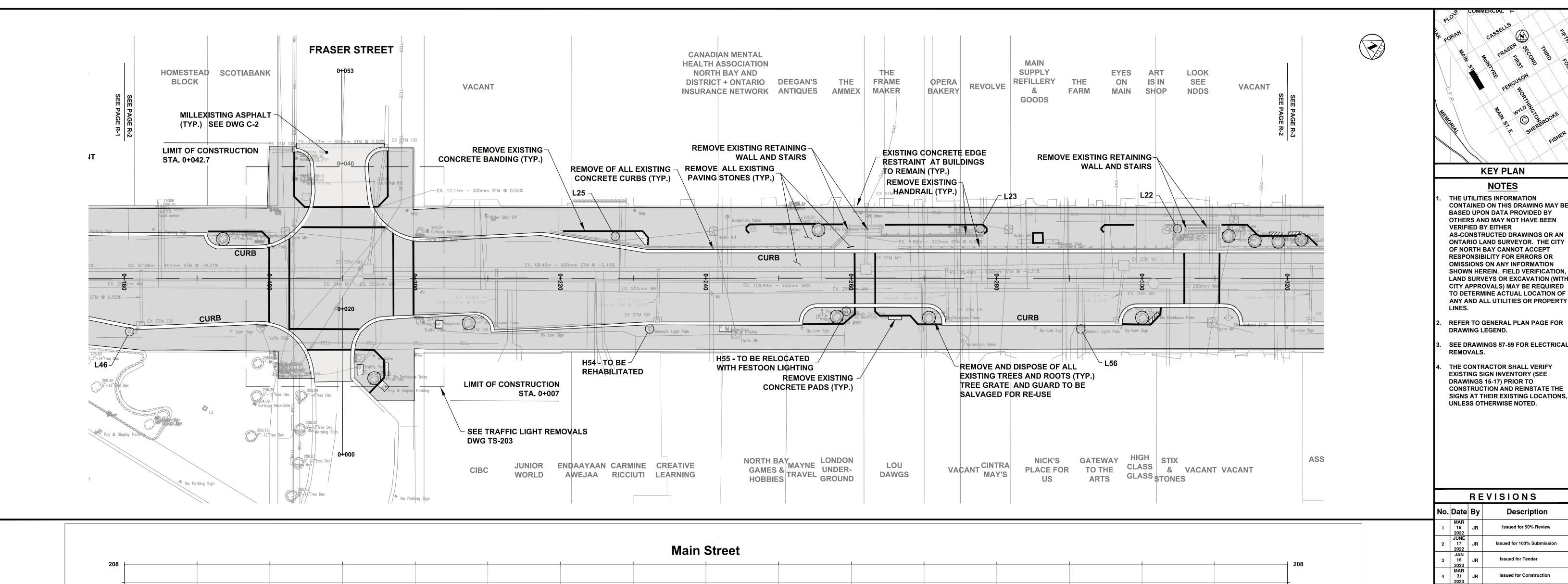
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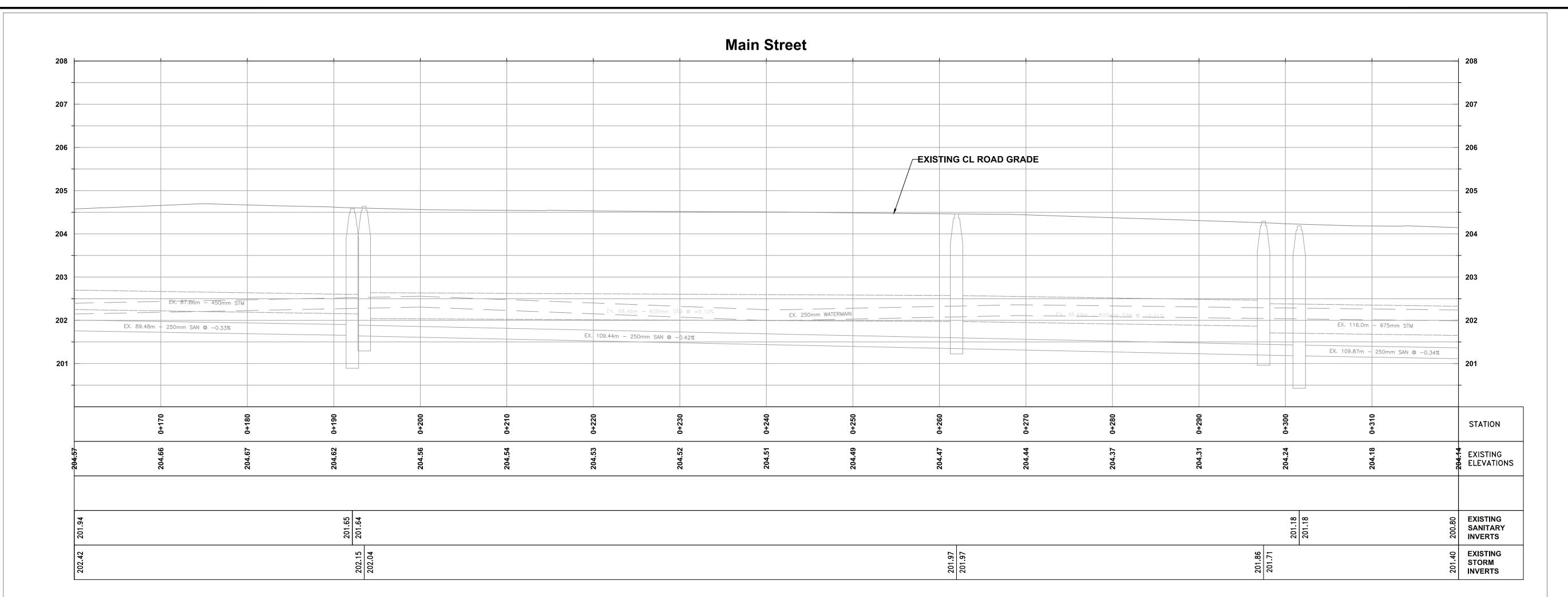
MAIN STREET Plan & Profile

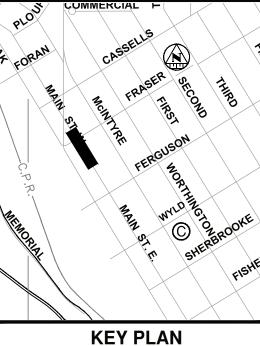
Sta. 0+000 to Sta. 0+160

gner: Checked by:

J.R.	J.M.B			
Date:	Approved by:			
12/23/2021	J.R.			
Scale: 1:250 <sup>2.5</sup> 0	5 10			
1:50 0.5 0	1 2			
Drawing Number:	Drawing Set:			
R-1	03 of 61			







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REFER TO GENERAL PLAN PAGE FOR

SEE DRAWINGS 57-59 FOR ELECTRICAL REMOVALS.

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		_ ,	2000
1	MAR 18 2022	JR	Issued for 90% Review
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4	MAR 31 2023	JR	Issued for Construction





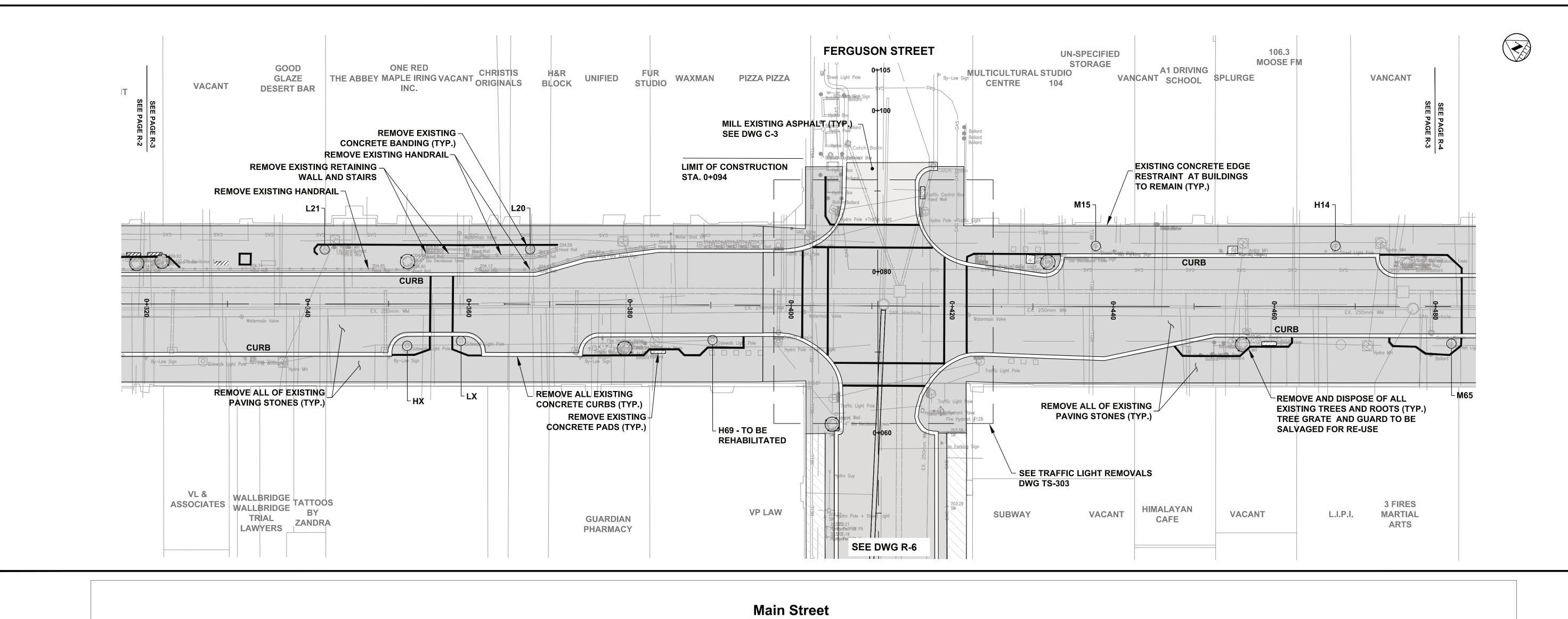
**MAIN STREET ROAD RECONSTRUCTION** 

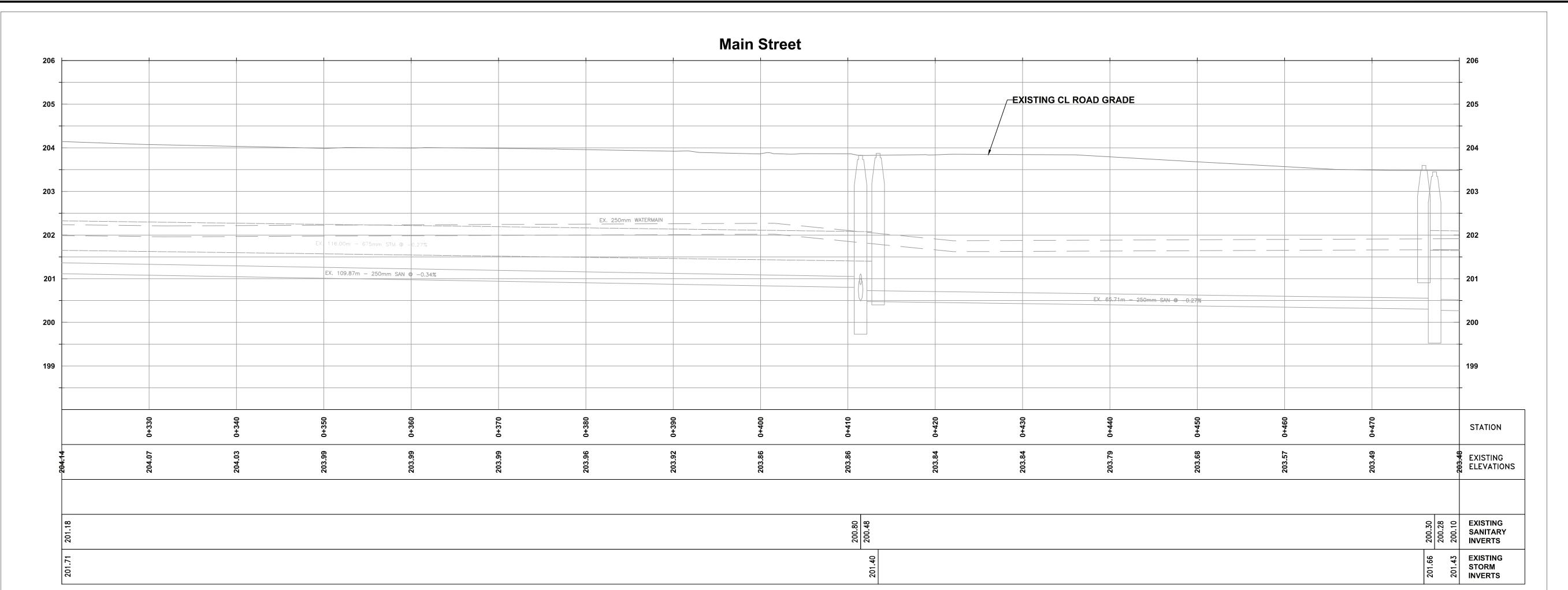
**REMOVAL** 

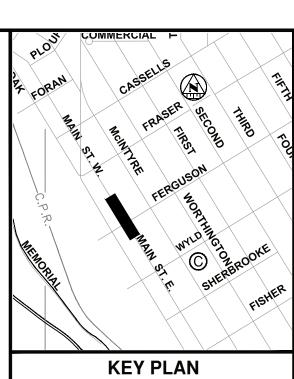
**MAIN STREET** 

Plan & Profile Sta. 0+160 to Sta. 0+320

Designer: J.R.	Checked by: J.M.B.
Date: 12/23/2021	Approved by: J.R.
Scale: 1:250 <sup>2.5</sup> 0 1:50 0	5 10
Drawing Number:	Drawing Set: 04 of 61







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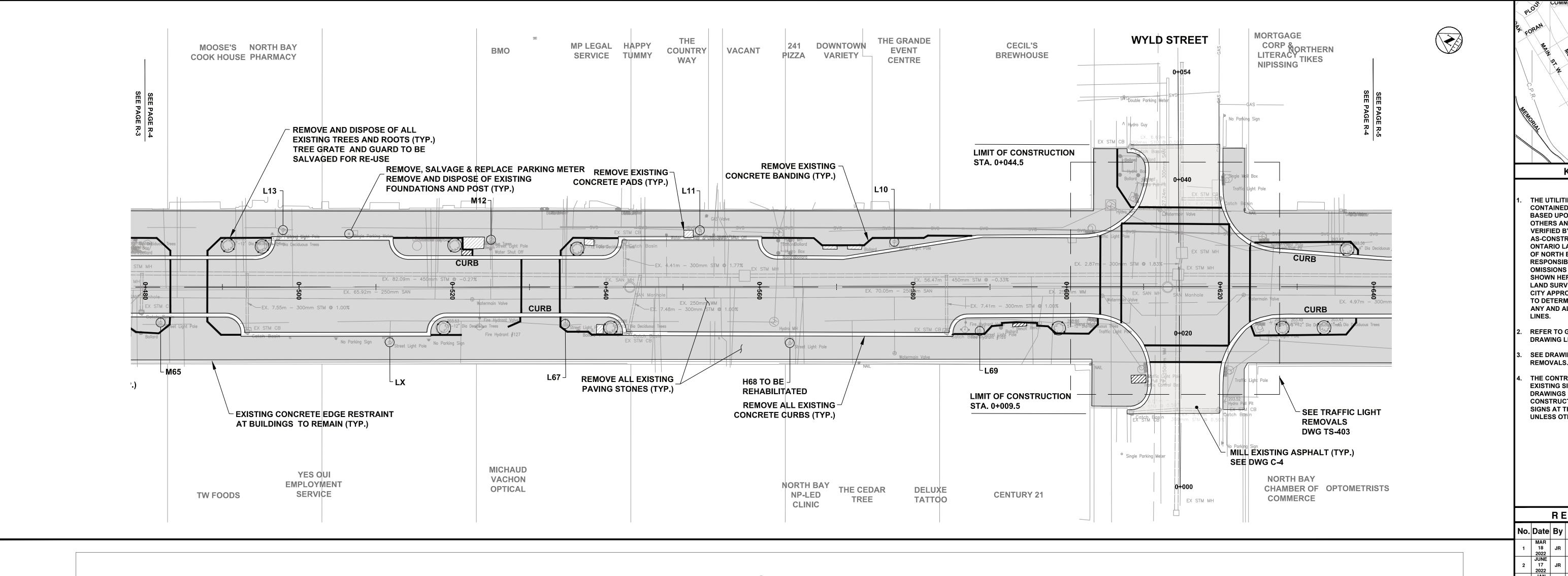
MAIN STREET
ROAD
RECONSTRUCTION

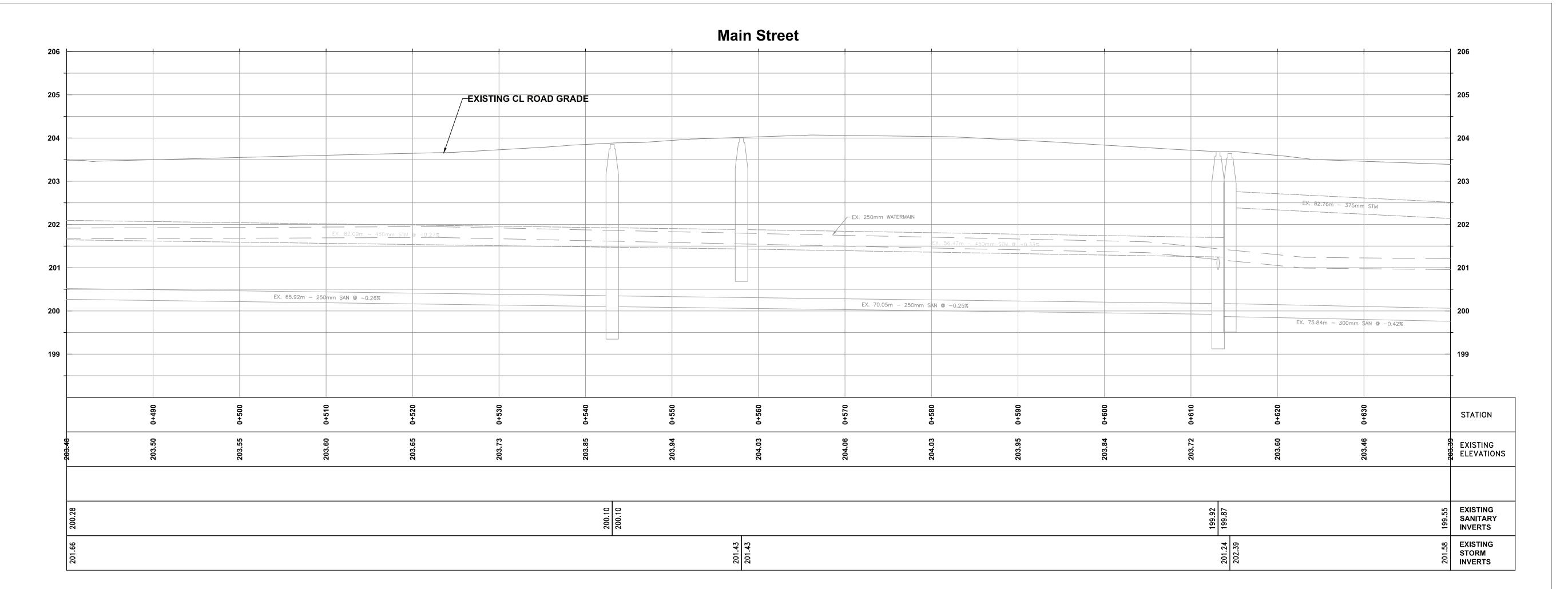
**REMOVALS** 

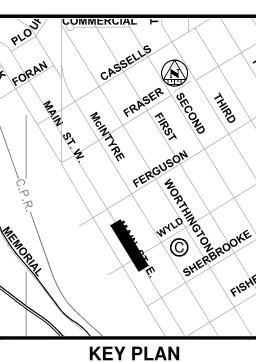
**MAIN STREET** 

Plan & Profile
Sta. 0+320 to Sta. 0+480

Designer: J.R.	Checked by: J.M.B.			
Date:	Approved by:			
12/23/2021	J.R.			
Scale: 1:250 <sup>2.5</sup> 0	5 10			
1:50 0.5 0	1 2			
Drawing Number:	Drawing Set:			
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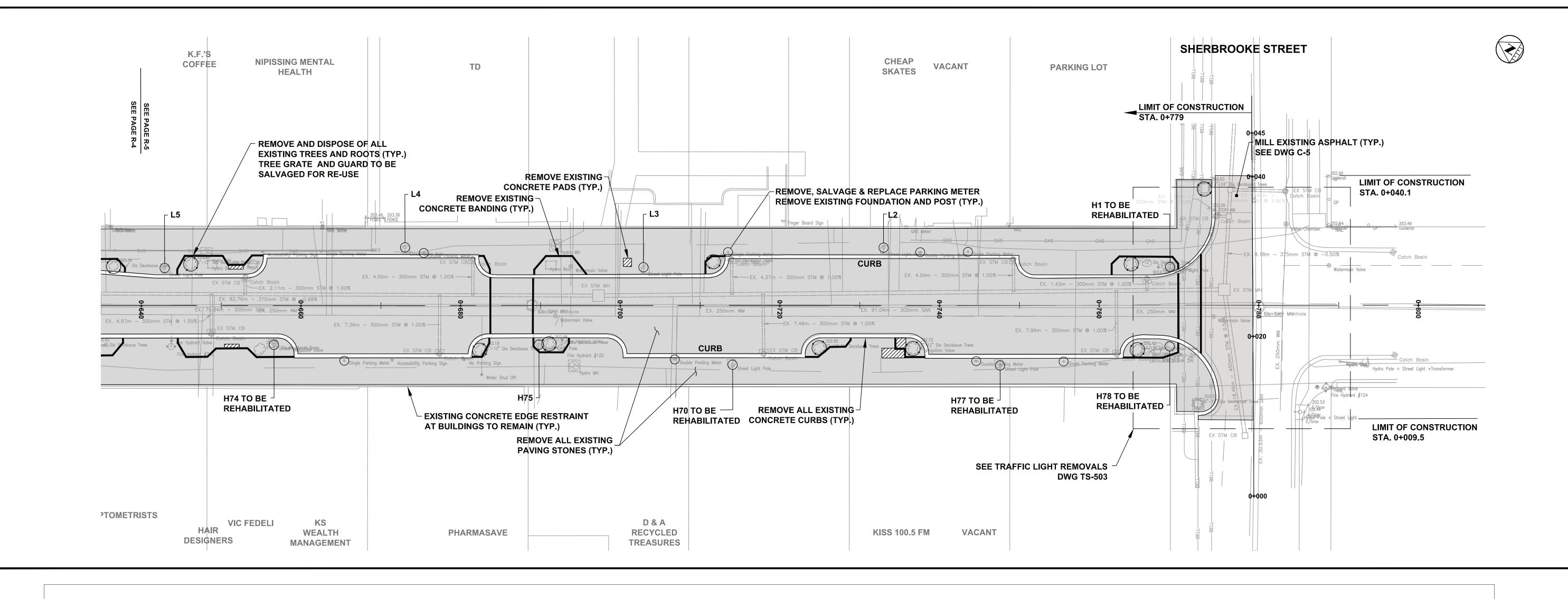
MAIN STREET
ROAD
RECONSTRUCTION

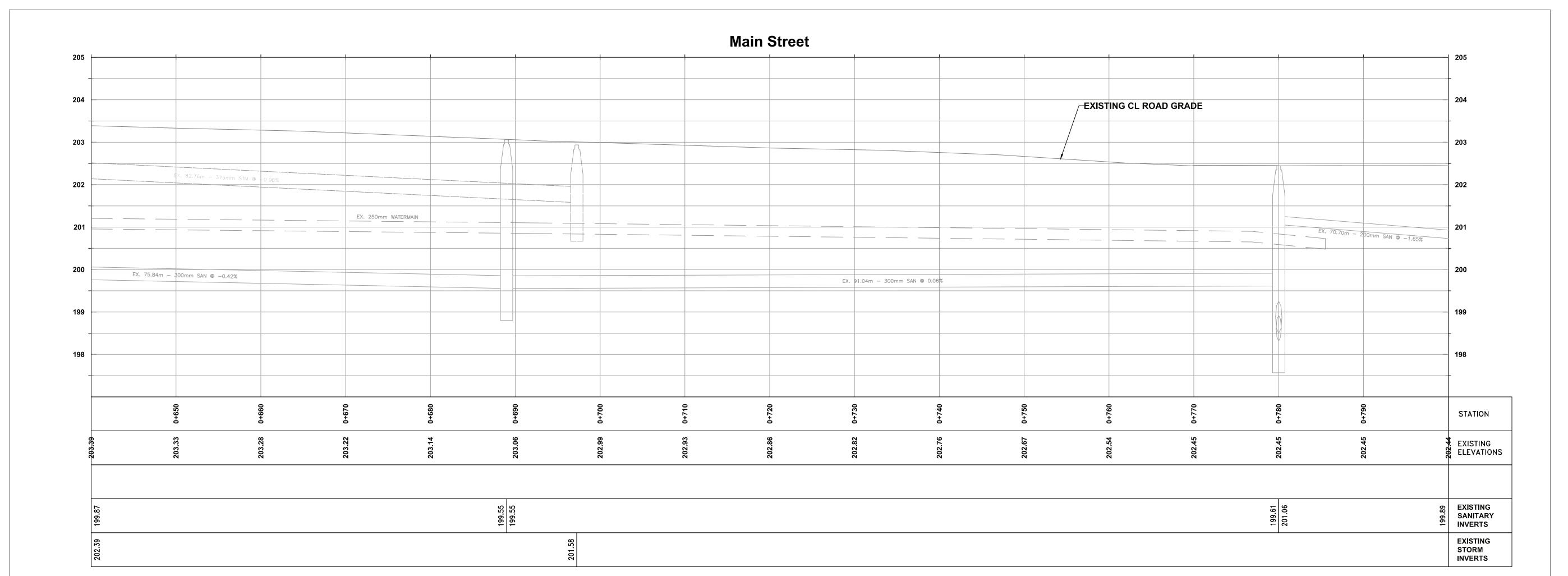
**REMOVALS** 

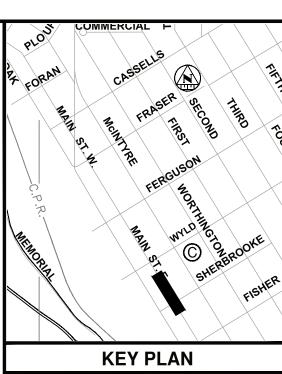
MAIN STREET

Plan & Profile
Sta. 0+480 to Sta. 0+640

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REVISIONS



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MAIN STREET
ROAD
RECONSTRUCTION

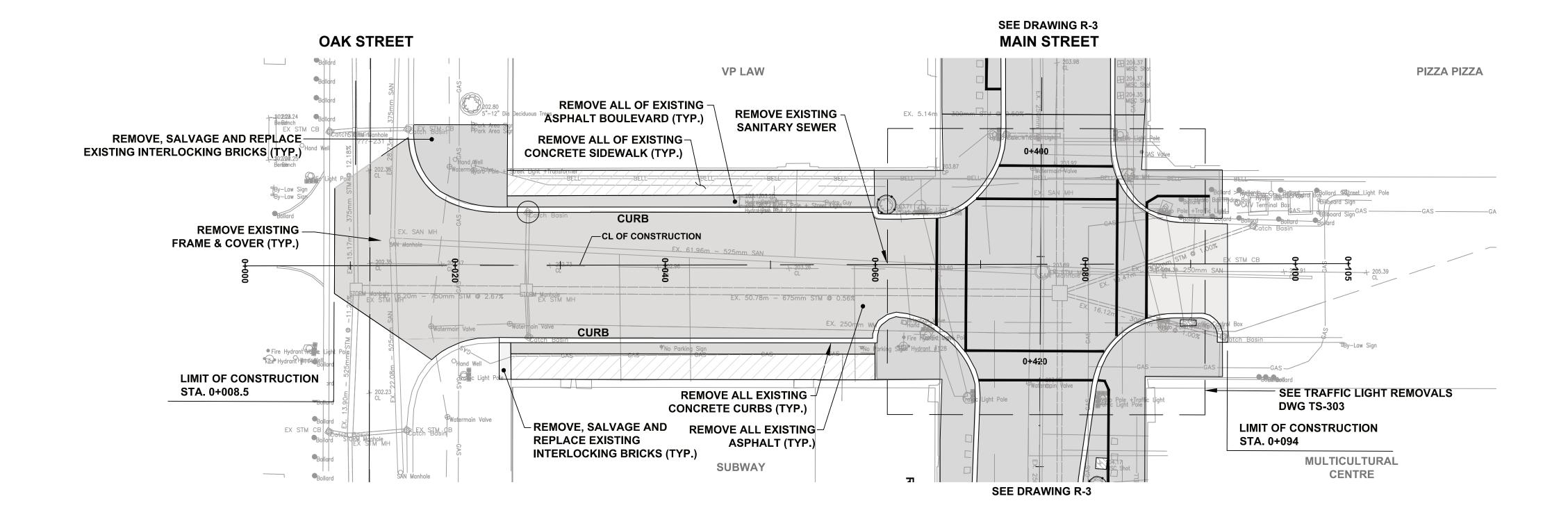
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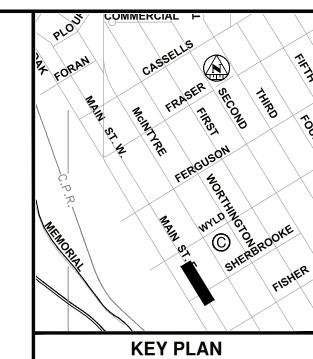
MAIN STREET Plan & Profile

Sta. 0+640 to Sta. 0+800

Designer: J.R.	Checked by: J.M.B.
Date:	Approved by:
12/23/2021	J.R.
Scale: 1:250 <sup>2:5</sup> 0	5 10
1:50 0.5 0	1 2
Drawing Number:	Drawing Set:
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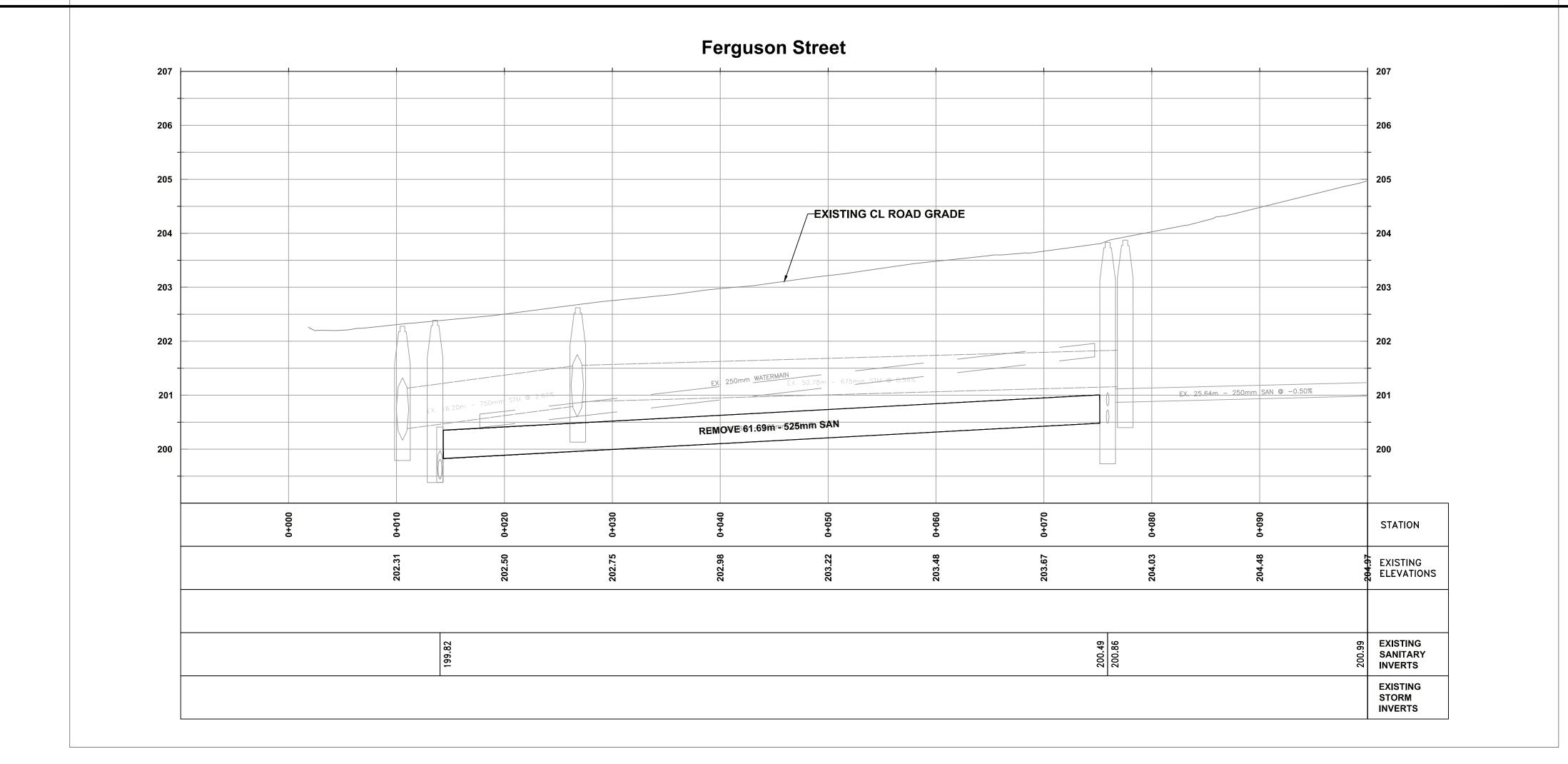




### KETPLAN

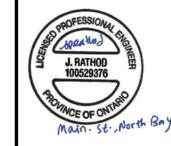
### **NOTES**

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REVISIONS



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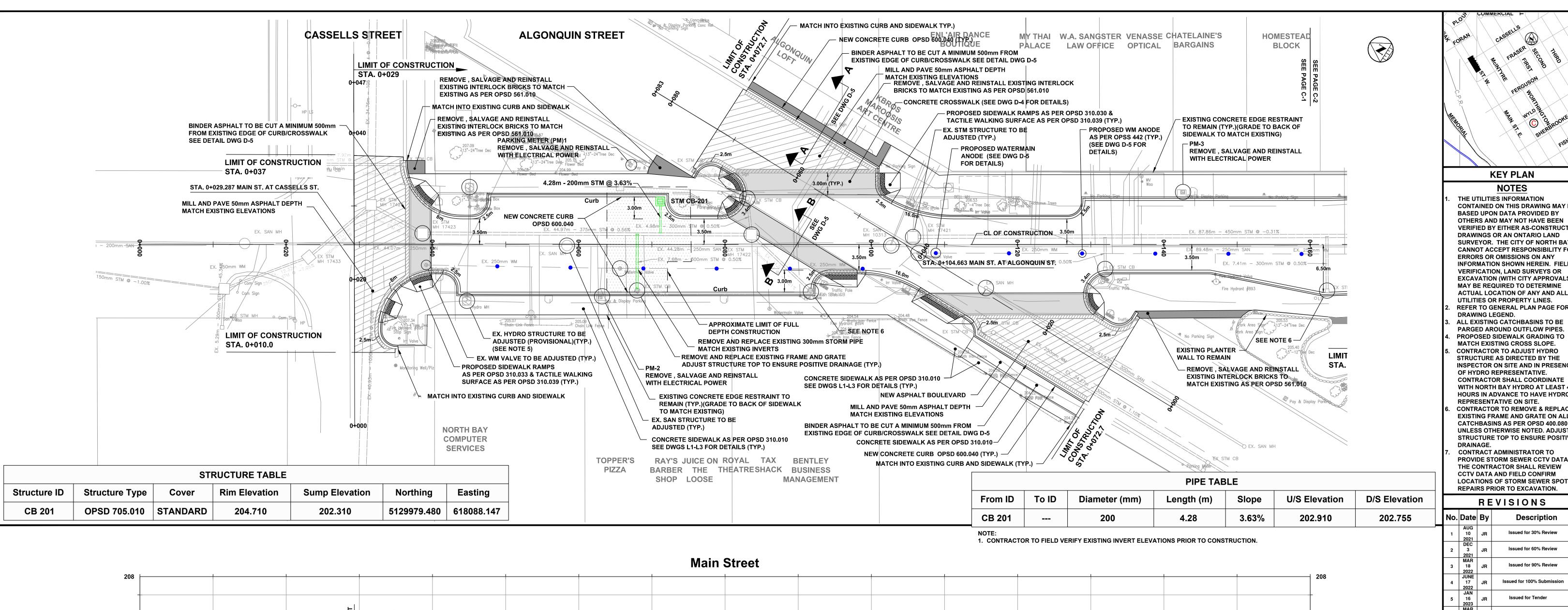
MAIN STREET
ROAD
RECONSTRUCTION

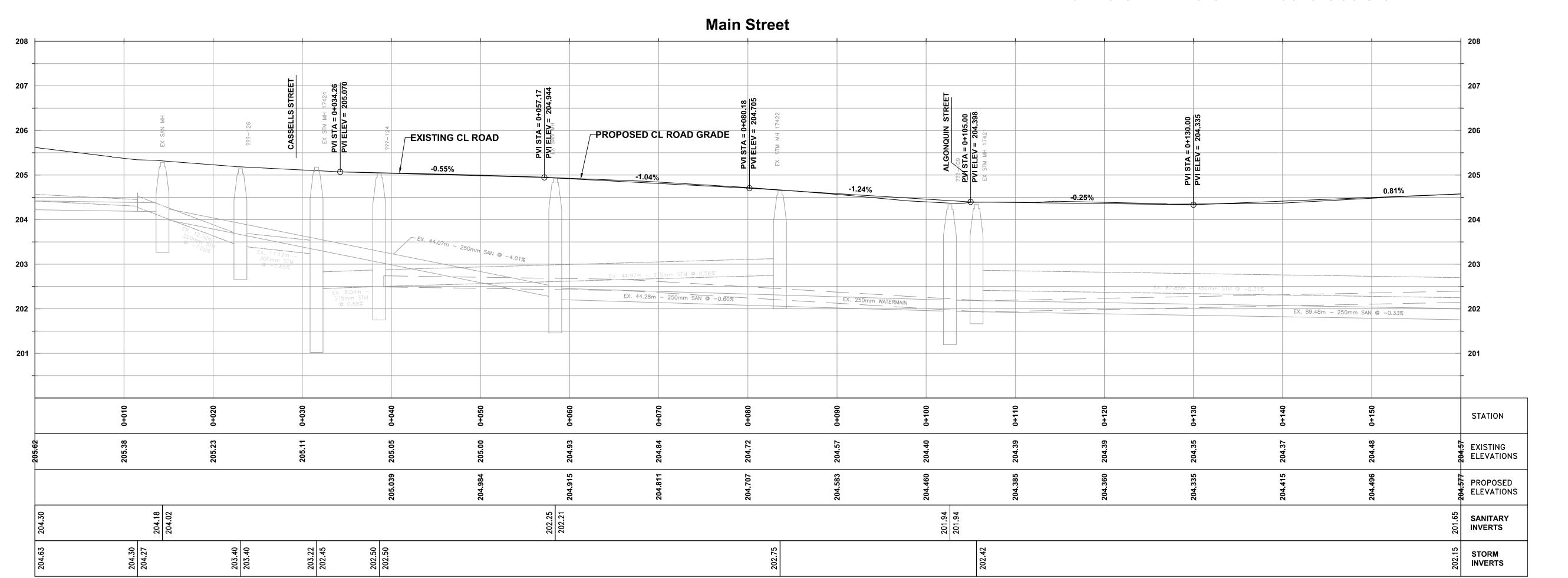
**REMOVALS** 

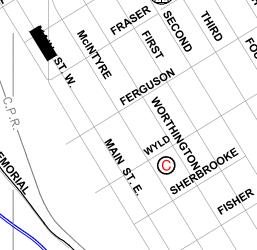
# FERGUSON STREET Plan & Profile

Plan & Profile
Oak Street to Main Street

Designer: J.R.	Checked by: J.M.B
Date:	Approved by:
12/23/2021	J.R.
Scale:	5 10
1:250 2:5	
1.50 0.5 0	1 2
Drawing Number:	Drawing Set:
R-6	08 of 61







### **KEY PLAN** NOTES

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### REVISIONS

	No.	Date	Ву	Description		
		AUG				
	1	10	JR	Issued for 30% Review		
		2021				
		DEC				
	2	3	JR	Issued for 60% Review		
		2021				
		MAR				
	3	18	JR	Issued for 90% Review		
		2022				
		JUNE				
	4	17	JR	Issued for 100% Submission		
		2022				
		JAN				
	5	16	JR	Issued for Tender		
		2023				
		MAR				
	6	31	JR	JR	JR	Issued for Construction
		2023	- /-			



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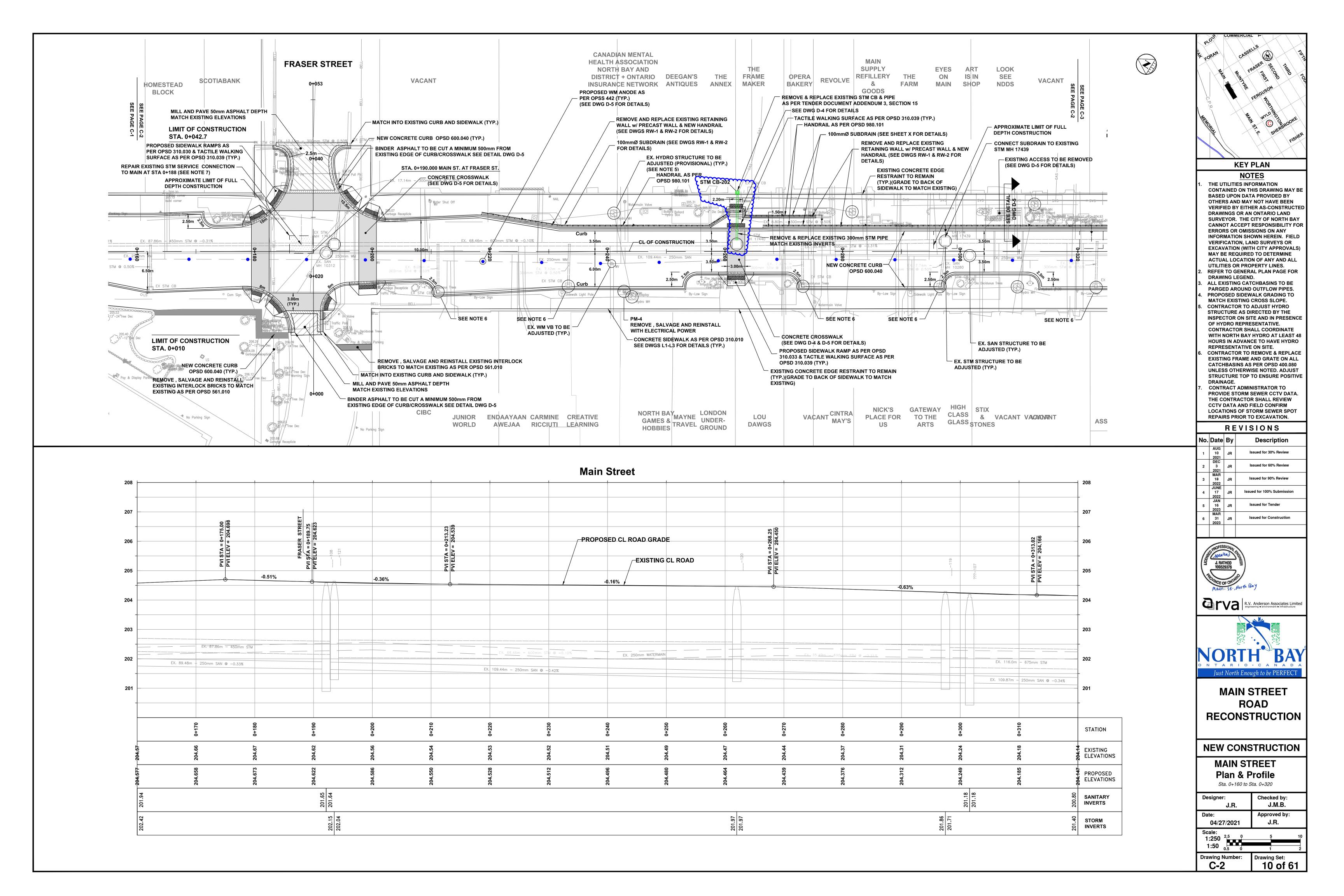
**MAIN STREET ROAD** RECONSTRUCTION

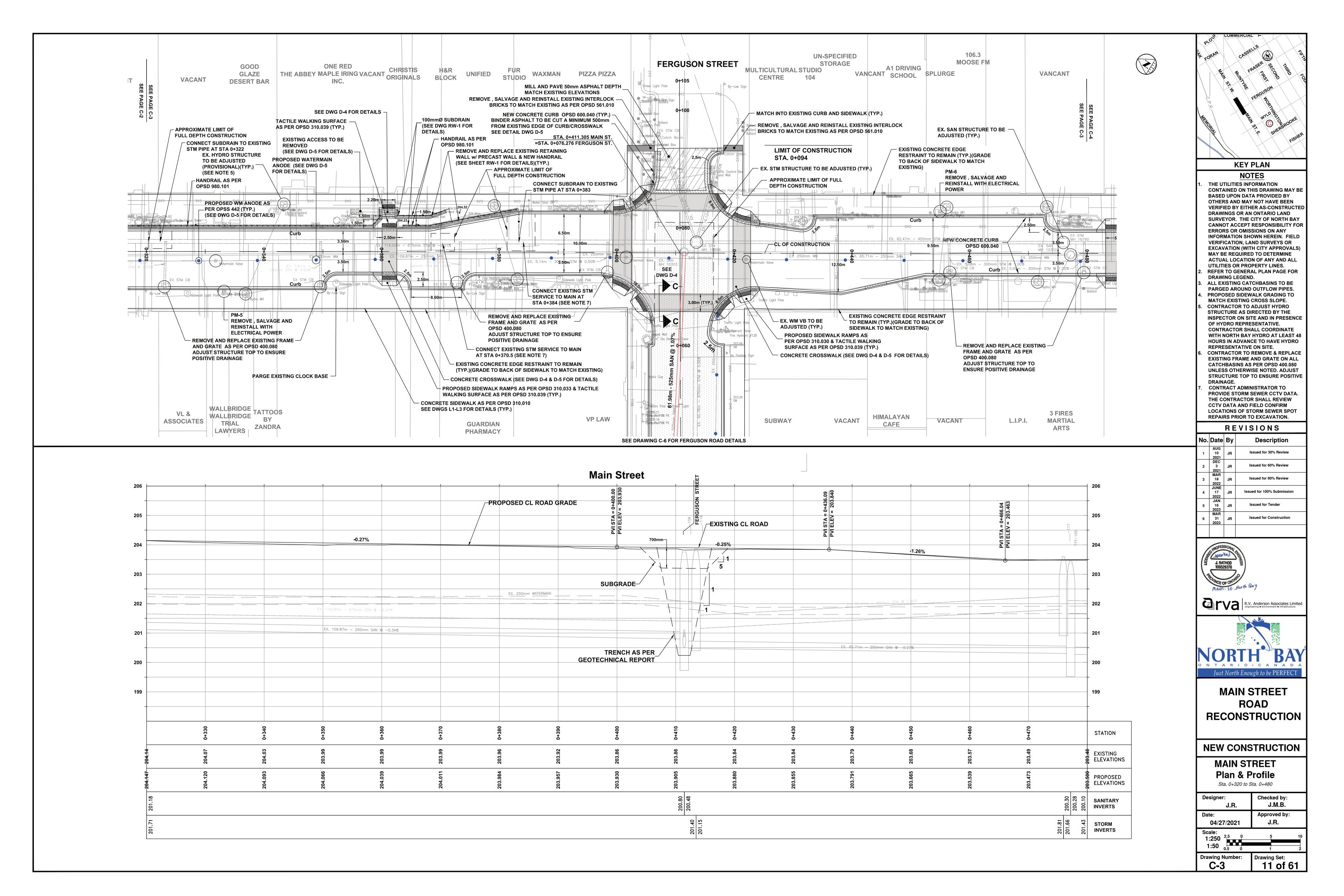
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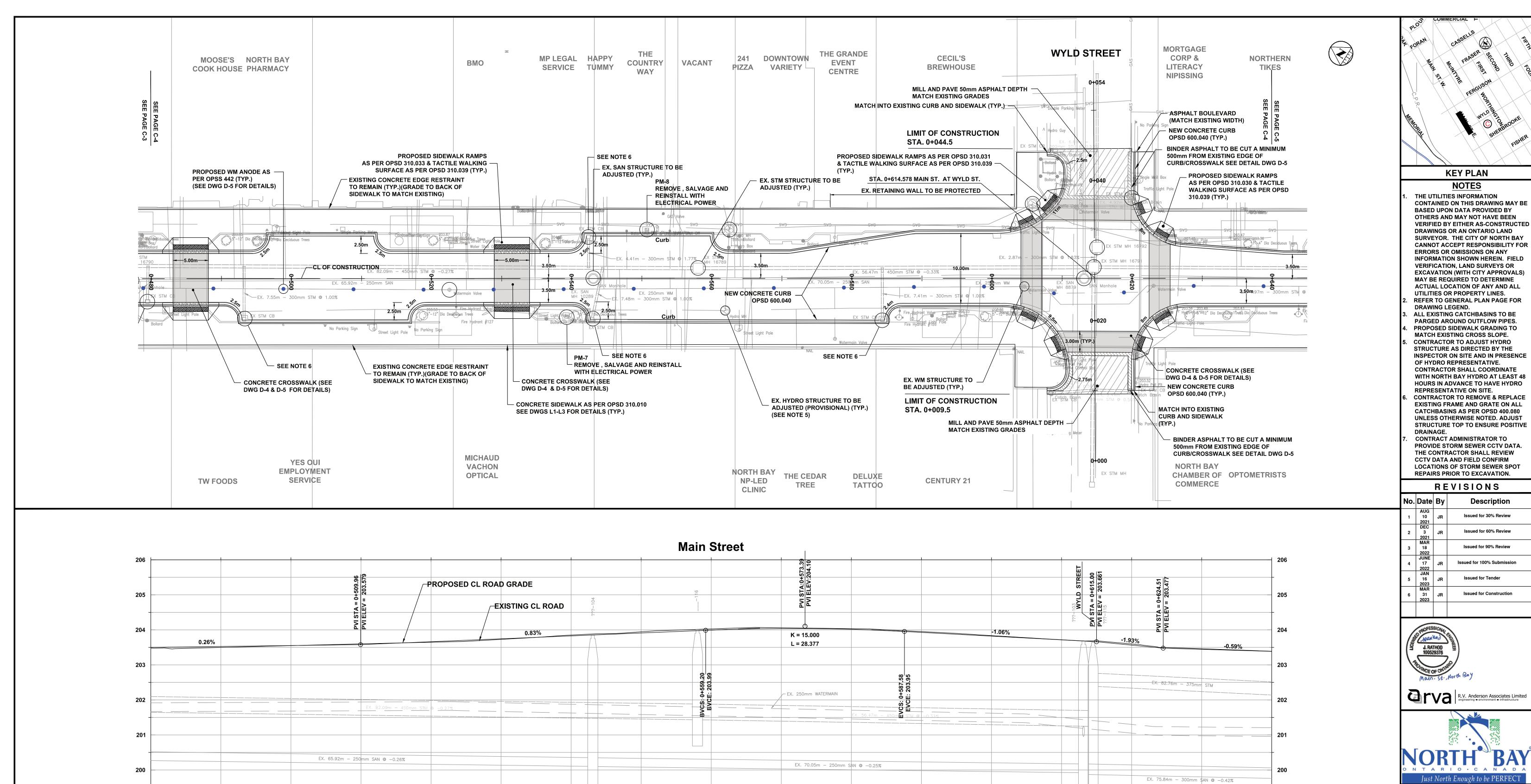
**MAIN STREET** Plan & Profile

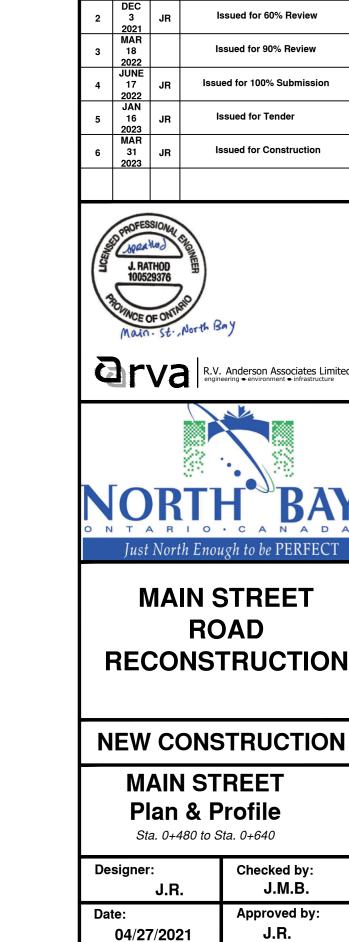
Sta. 0+000 to Sta. 0+160 Checked by:

J.R.	J.M.B
Date:	Approved by:
04/27/2021	J.R.
Scale: 1:250 <sup>2,5</sup> 0	5 10
1:50 0.5 0	1 2
Drawing Number:	Drawing Set:
<b>U-</b> 1	09 of 61









1:250 <sup>2.5</sup> 1:50

Drawing Set:

12 of 61

STATION

**EXISTING** 

**ELEVATIONS** 

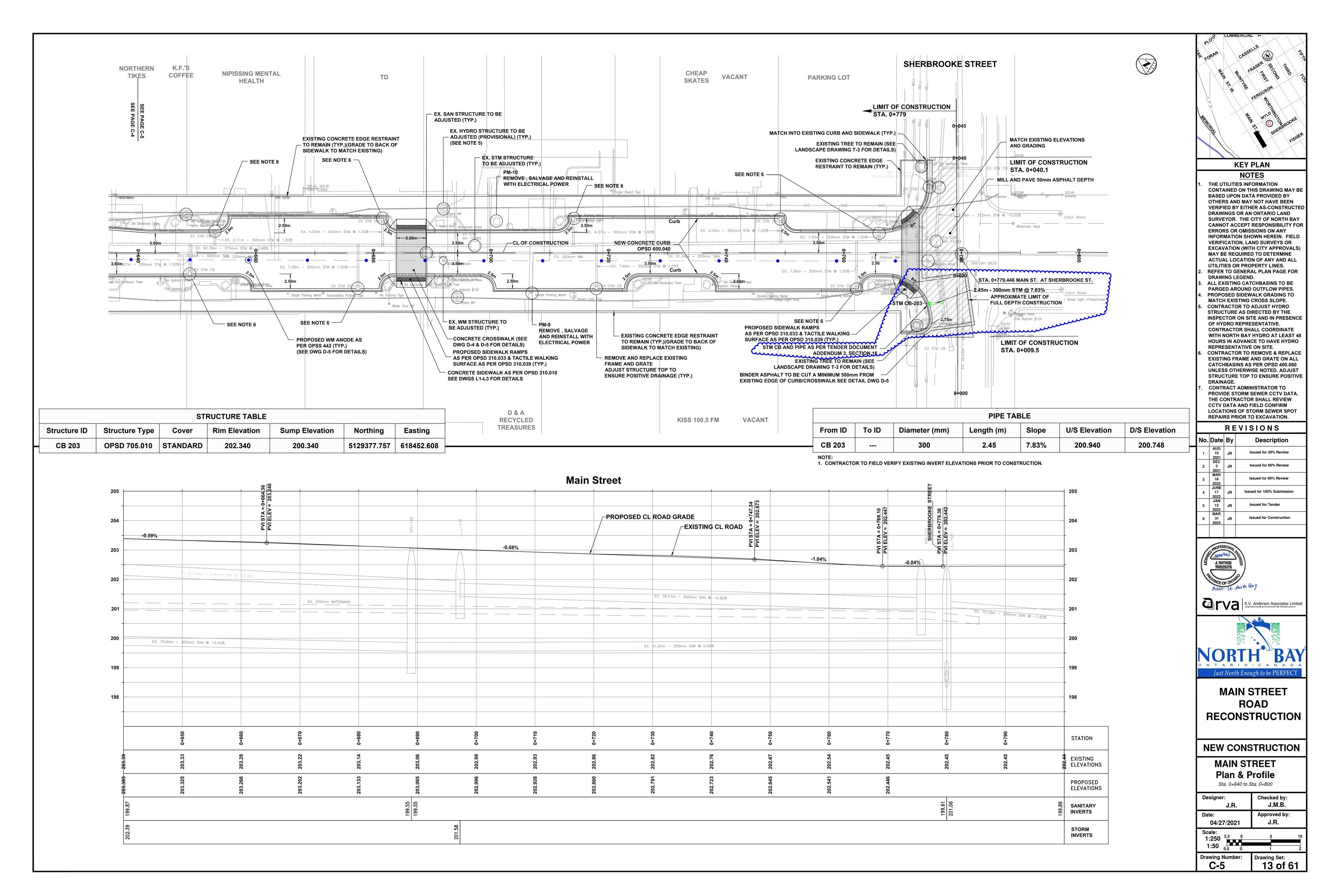
PROPOSED

ELEVATIONS

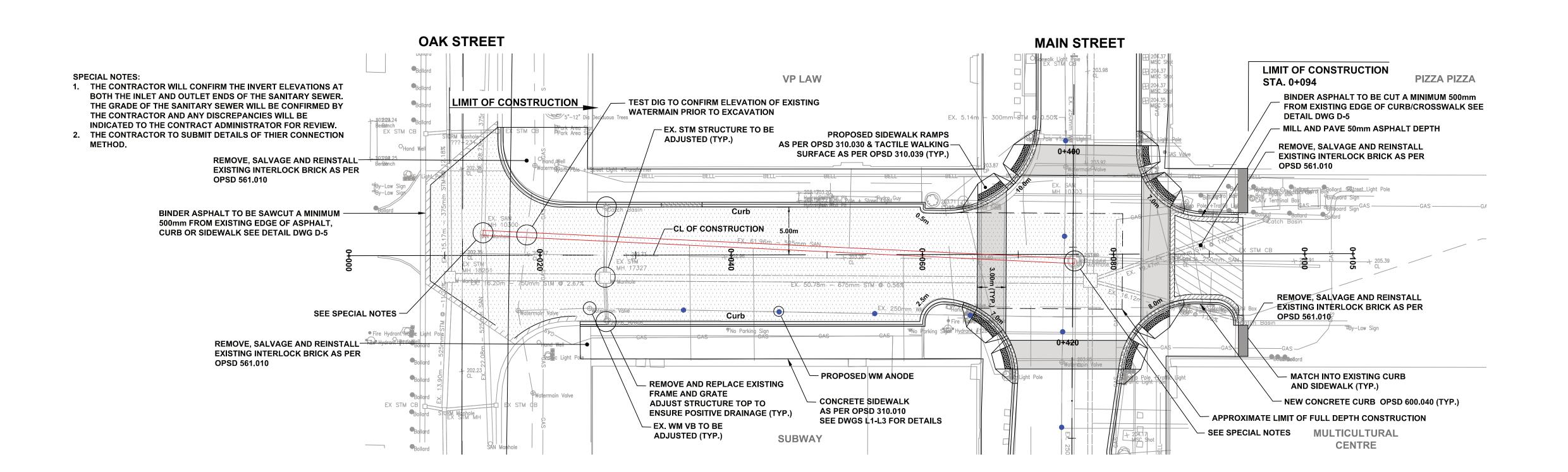
SANITARY

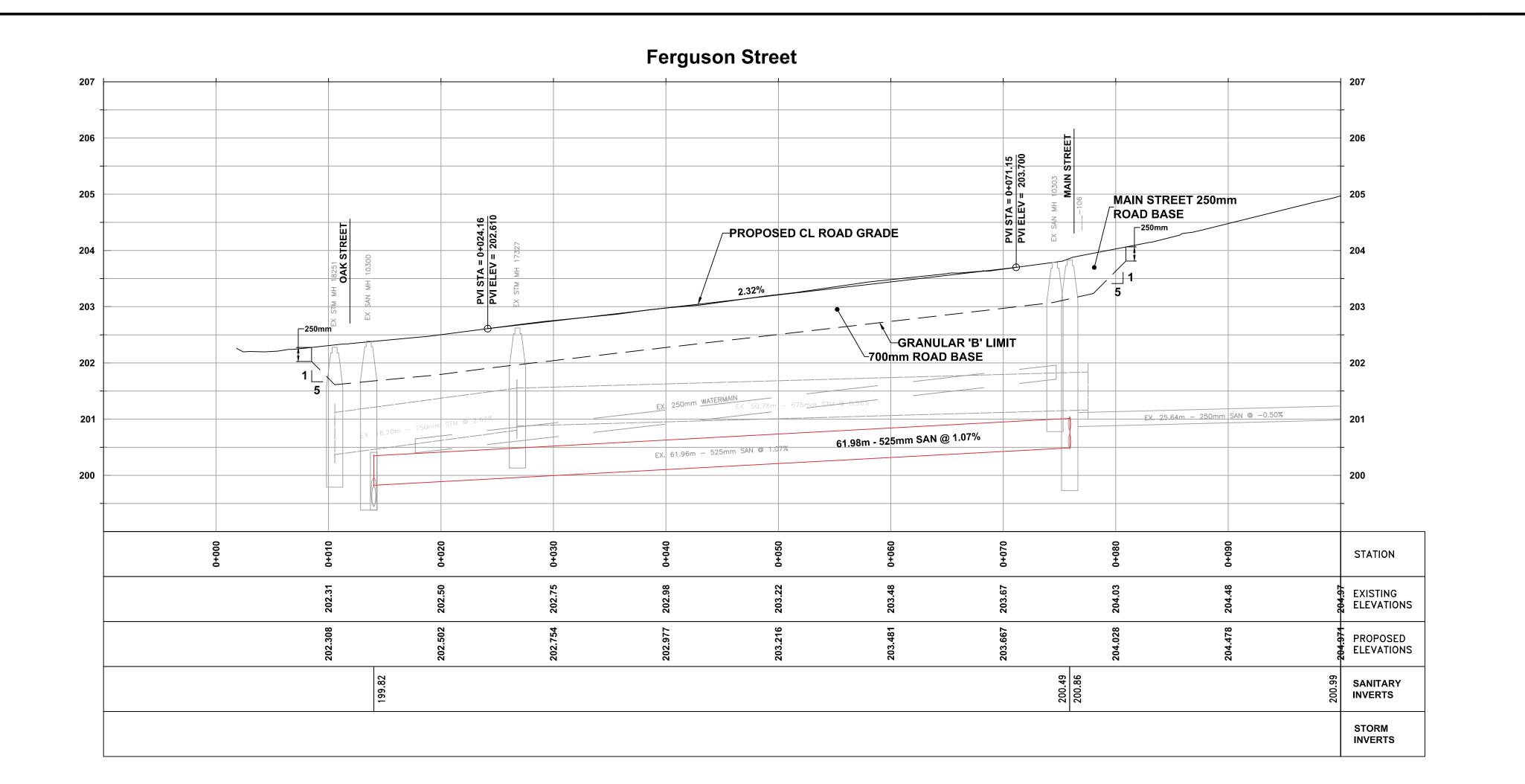
INVERTS

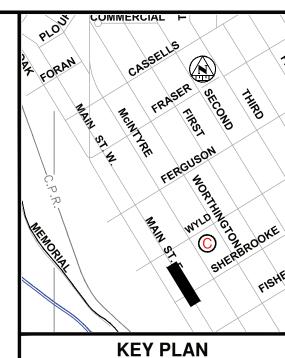
STORM INVERTS











### NOTES

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REPRESENTATIVE ON SITE.

6. CONTRACTOR TO REMOVE & REPLACE EXISTING FRAME AND GRATE ON ALL CATCHBASINS AS PER OPSD 400.080 UNLESS OTHERWISE NOTED. ADJUST STRUCTURE TOP TO ENSURE POSITIVE DRAINAGE.

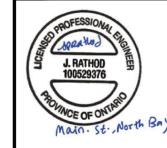
WITH NORTH BAY HYDRO AT LEAST 48

HOURS IN ADVANCE TO HAVE HYDRO

CONTRACT ADMINISTRATOR TO PROVIDE STORM SEWER CCTV DATA. THE CONTRACTOR SHALL REVIEW CCTV DATA AND FIELD CONFIRM LOCATIONS OF STORM SEWER SPOT REPAIRS PRIOR TO EXCAVATION.

### REVISIONS

No.	Date	Ву	Description
1	AUG 10 2021	JR	Issued for 30% Review
2	DEC 3 2021	JR	Issued for 60% Review
3	MAR 18 2022		Issued for 90% Review
4	JUNE 17 2022	JR	Issued for 100% Submission
5	JAN 16 2023	JR	Issued for Tender
6	MAR 31 2023	JR	Issued for Construction



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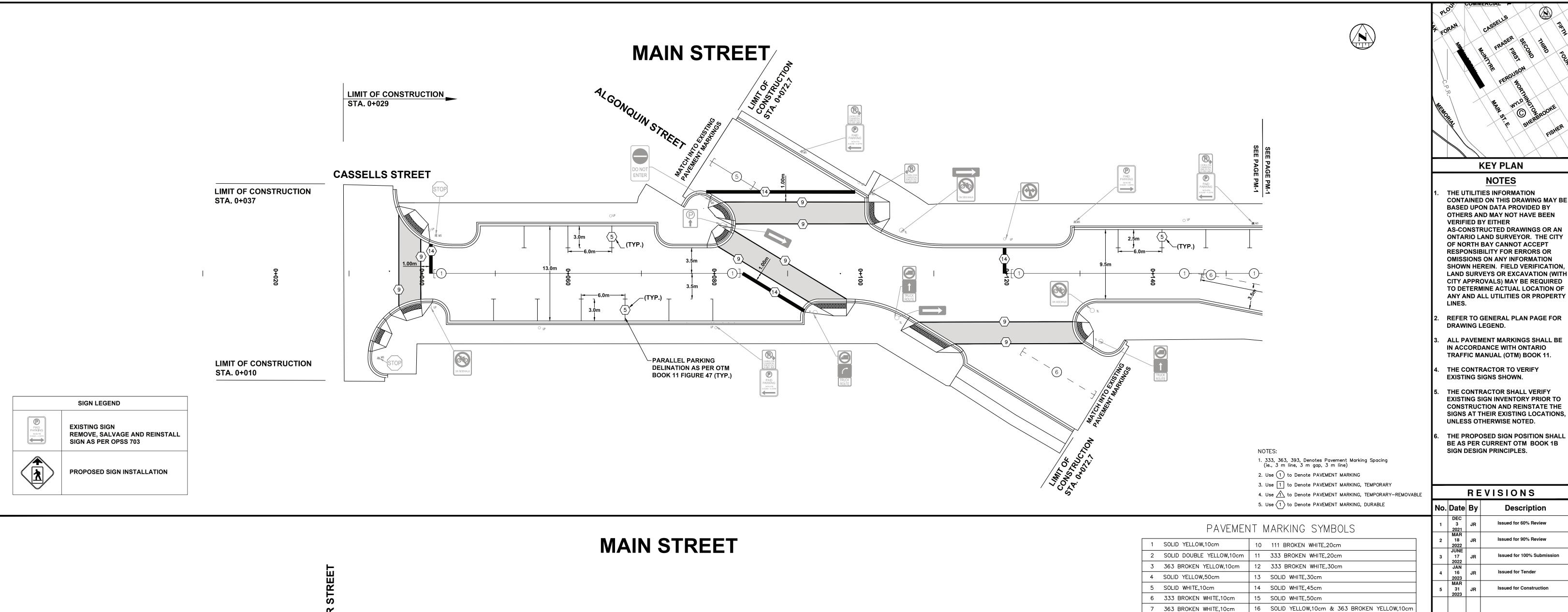
MAIN STREET
ROAD
RECONSTRUCTION

NEW CONSTRUCTION

FERGUSON STREET
Plan & Profile

er: Checked
J.R. J.M.

Designer: J.R.	Checked by: J.M.B
Date: 04/27/2021	Approved by: J.R.
Scale:	5 10
1:250 2.5 0 1:50 0.5 0	1 2
Drawing Number:	Drawing Set: 14 of 61



MATCH INTO EXISTING PAVEMENT MARKINGS

PEDESTRIAN CROSSING AHEAD (Wc-27) STA 0+208

LIMIT OF CONSTRUCTION

STA. 0+042.7

LIMIT OF CONSTRUCTION

STA. 0+010

### Issued for 60% Review Issued for 100% Submission **Issued for Construction** 16 SOLID YELLOW,10cm & 363 BROKEN YELLOW,10cm 8 393 BROKEN WHITE,10cm 20 SYMBOLS

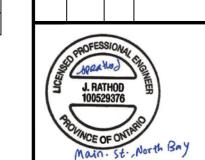
] [ LIMITS OF MARKINGS

9 SOLID WHITE,20cm

PEDESTRIAN CROSSING AHEAD (Wc-27) STA 0+301

PEDESTRIAN CROSSING (Ra-4)
STA 0+489 (MOUNTED BACK TO BACK
AS PER OTM BOOK 15)

PEDESTRIAN CROSSING (Ra-4)
STA 0+260 (MOUNTED BACK TO BACK
AS PER OTM BOOK 15)



Description

**KEY PLAN** 

**NOTES** 



**MAIN STREET ROAD RECONSTRUCTION** 

### **PAVEMENT MARKINGS**

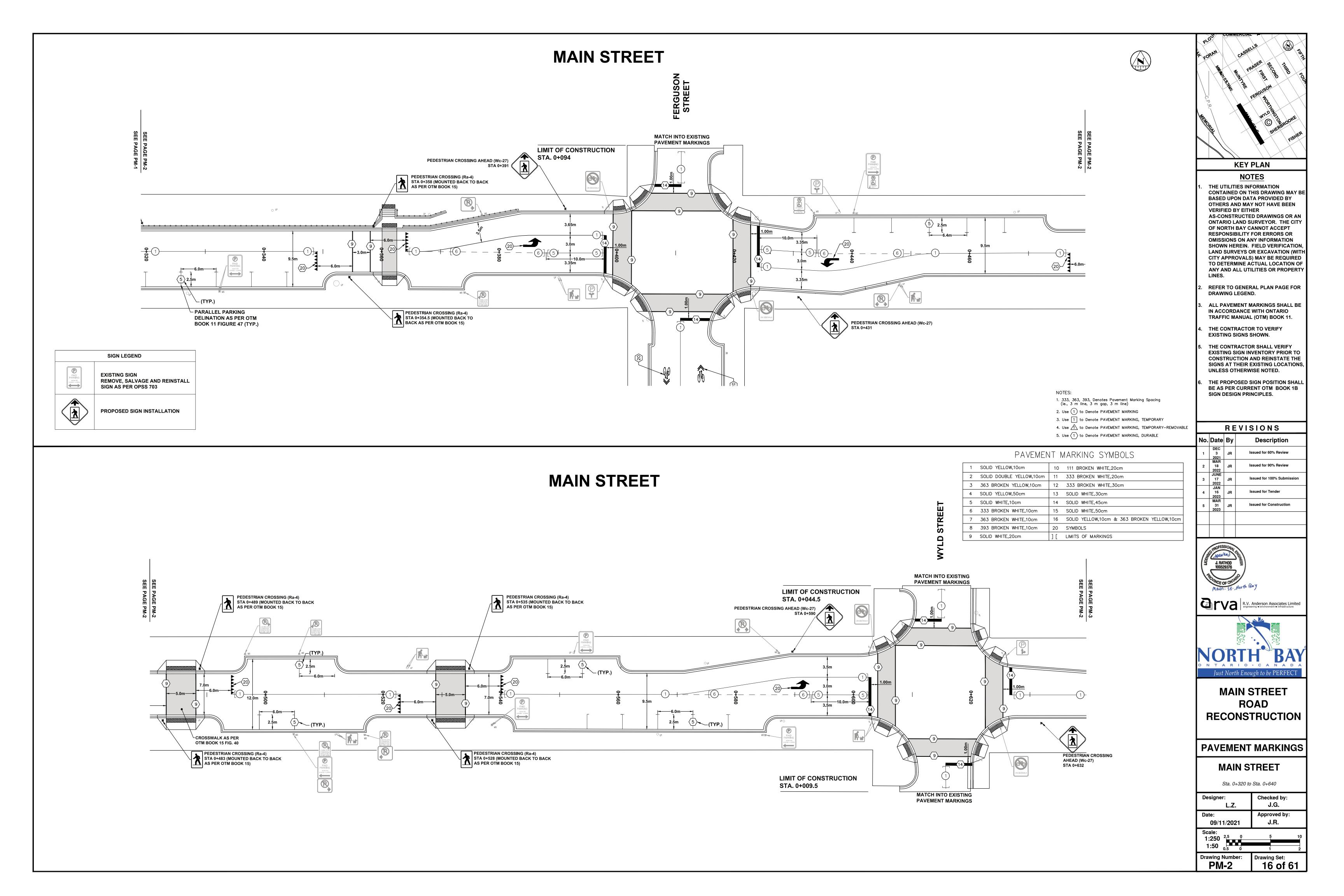
### **MAIN STREET**

Sta. 0+000 to Sta. 0+320

Designer:	Checked by:	
L.Z	J.G	
Date:	Approved by: J.R	
09/11/2021		
Scale: 1:250 <sup>2.5</sup> 0	5	
1:50		

PM-1

Drawing Set: 15 of 61



# \_ LIMIT OF CONSTRUCTION **STA.** 0+779 SHERBROOKE STREET PEDESTRIAN CROSSING AHEAD (Wc-27) STA 0+745 PEDESTRIAN CROSSING (Ra-4) STA 0+689 (MOUNTED BACK TO BACK AS PER OTM BOOK 15) OTM BOOK 15 FIG. 40 PEDESTRIAN CROSSING (Ra-4) STA 0+683 (MOUNTED BACK TO BACK AS PER OTM BOOK 15) **─PARALLEL PARKING DELINATION AS PER OTM** BOOK 11 FIGURE 47 (TYP.) SIGN LEGEND REMOVE, SALVAGE AND REINSTALL SIGN AS PER OPSS 703 PROPOSED SIGN INSTALLATION

**MAIN STREET** 





1. 333, 363, 393, Denotes Pavement Marking Spacing (ie., 3 m line, 3 m gap, 3 m line)

3. Use 1 to Denote PAVEMENT MARKING, TEMPORARY

5. Use  $\langle 1 \rangle$  to Denote PAVEMENT MARKING, DURABLE

4. Use 1 to Denote PAVEMENT MARKING, TEMPORARY-REMOVABLE

2. Use 1 to Denote PAVEMENT MARKING

PAVEMENT MARKING SYMBOLS

2 SOLID DOUBLE YELLOW,10cm 11 333 BROKEN WHITE,20cm

3 363 BROKEN YELLOW,10cm

6 333 BROKEN WHITE,10cm

7 363 BROKEN WHITE,10cm

8 393 BROKEN WHITE,10cm

4 SOLID YELLOW,50cm

5 SOLID WHITE,10cm

9 SOLID WHITE, 20cm

CONCRETE SIDEWALK AS PER OPSD 310.010

300mmx300mm BOX FORM TO BE -BACKFILLED WITH GRAVEL AND **TOPPED WITH 50-75mm OF CONCRETE** 

150mm GRANULAR 'A'

1. ALL HARDWARE MUST BE VANDAL PROOF.

2. BRACKETS MUST BE STAINLESS STEEL.
3. ALL NUTS AND BOLTS ARE BREAKAWAY ALUMINUM.

] [ LIMITS OF MARKINGS

20 SYMBOLS

TRIM POST TO TOP OF SIGN

MAIN POST TO BE 45mmx45mm 14 GAUGE GALVANIZED STEEL PRE-PUNCHED HOLES (ON 4 SIDES) ON 25mm CENTRES AND

CONCRETE CURB & GUTTER AS PER OPSD 600.040

- ANCHOR POST TO BE 50mmx50mmx900mm 14 GAUGE GALVANIZED STEEL PRE-PUNCHED HOLES (ON 4 SIDES)

**BOLTED TO ANCHOR POST** 

**SIGN POST INSTALLATION DETAIL** 

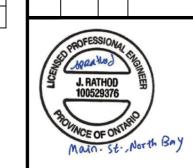
REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.

SHOWN HEREIN. FIELD VERIFICATION LAND SURVEYS OR EXCAVATION (WIT CITY APPROVALS) MAY BE REQUIRED TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERTY

- ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH ONTARIO TRAFFIC MANUAL (OTM) BOOK 11.
- THE CONTRACTOR TO VERIFY **EXISTING SIGNS SHOWN.**
- THE CONTRACTOR SHALL VERIFY **EXISTING SIGN INVENTORY PRIOR TO CONSTRUCTION AND REINSTATE THE** SIGNS AT THEIR EXISTING LOCATIONS, UNLESS OTHERWISE NOTED.
- THE PROPOSED SIGN POSITION SHALL BE AS PER CURRENT OTM BOOK 1B SIGN DESIGN PRINCIPLES.

### REVISIONS

		No	. Date	Ву	Description
<u> </u>	NT MARKING SYMBOLS	1	DEC 3 2021	JR	Issued for 60% Review
	10 111 BROKEN WHITE,20cm	2	MAR 18 2022	JR	Issued for 90% Review
	11 333 BROKEN WHITE,20cm	3	JUNE 17	JR	Issued for 100% Submission
	12 333 BROKEN WHITE,30cm		2022 JAN		
	13 SOLID WHITE,30cm	4	16 2023	JR	Issued for Tender
	14 SOLID WHITE,45cm	5	MAR 31	JR	Issued for Construction
	15 SOLID WHITE,50cm	$\vdash$	2023		
	16 SOLID YELLOW,10cm & 363 BROKEN YELLOW,10cm				





**MAIN STREET ROAD RECONSTRUCTION** 

### PAVEMENT MARKINGS

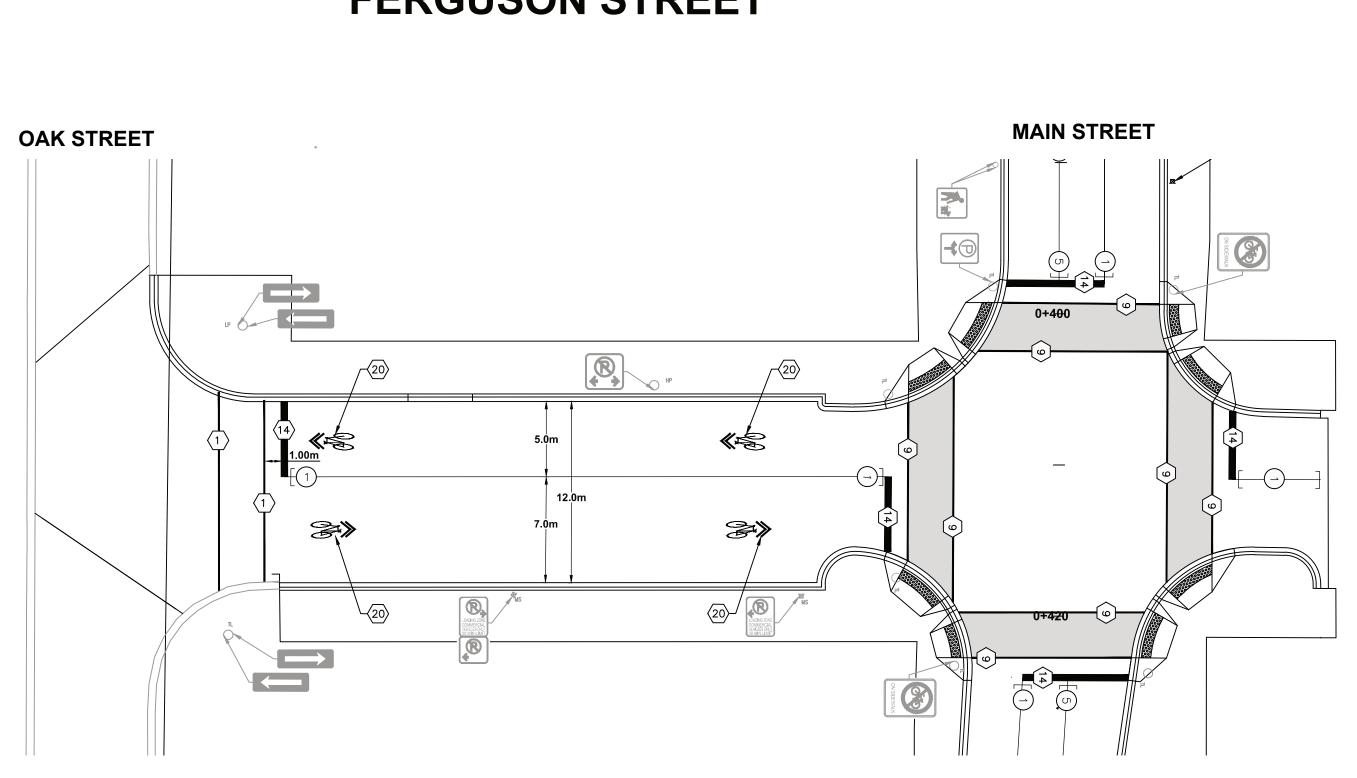
### **MAIN STREET**

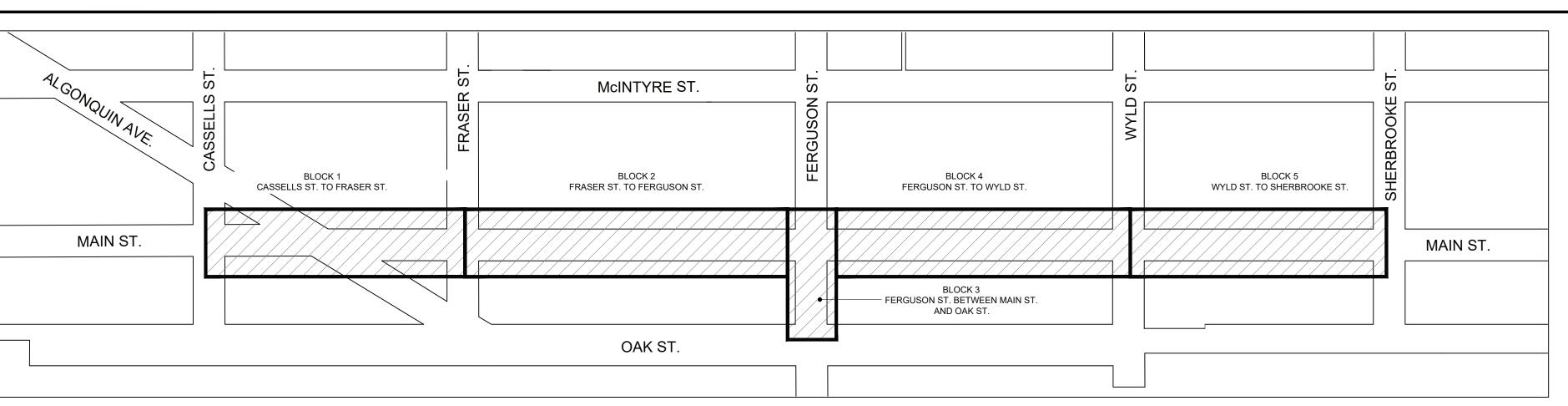
Sta. 0+640 to Sta. 0+780 & FERGUSON STREET

Designer: L.Z.	Checked by: J.G.	
Date: 09/11/2021	Approved by: J.R.	
Scale: 1:250 <sup>2.5</sup> 0	5	

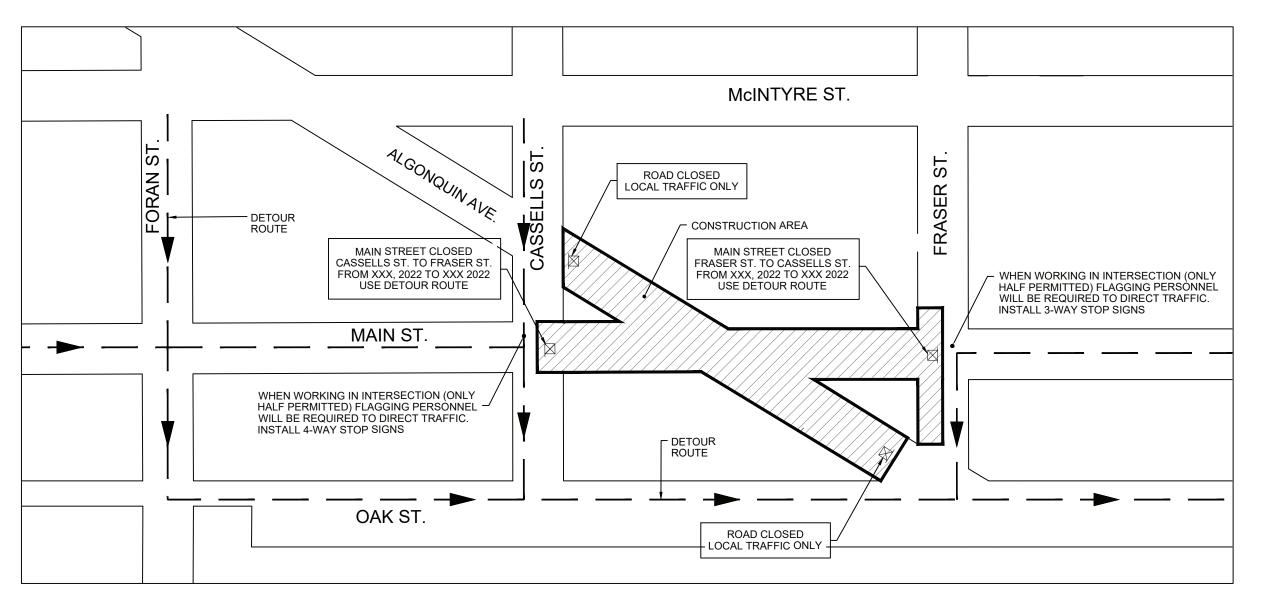
Drawing Set: PM-3 17 of 61

## **FERGUSON STREET**

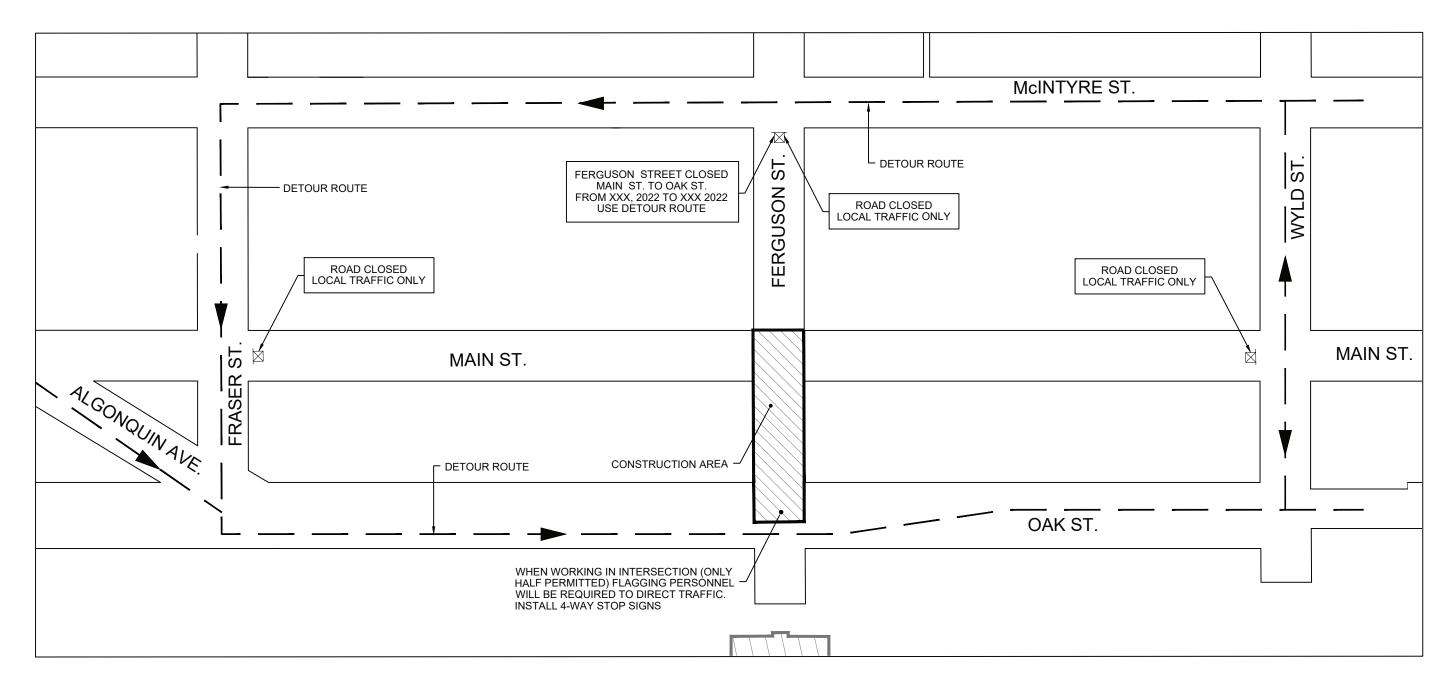




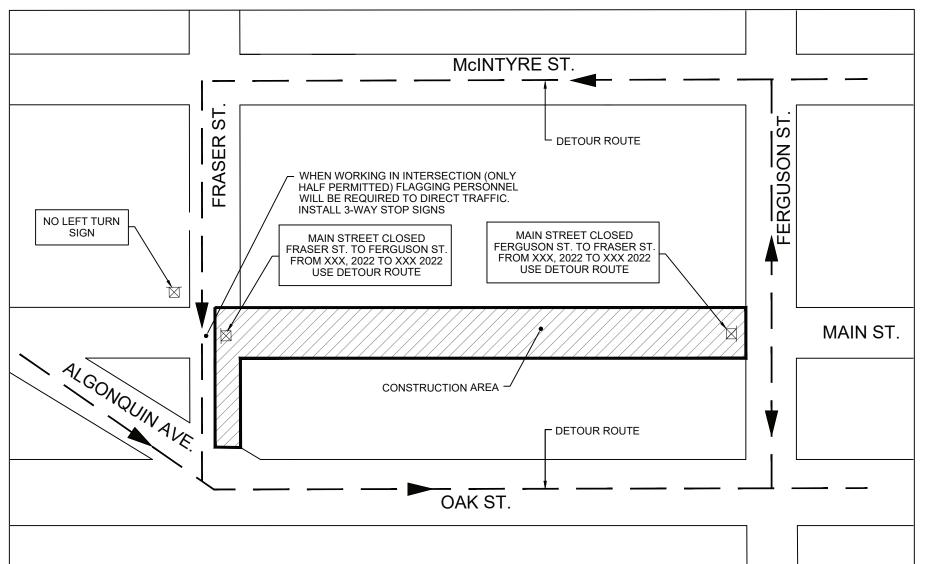
### **STAGING KEYPLAN**



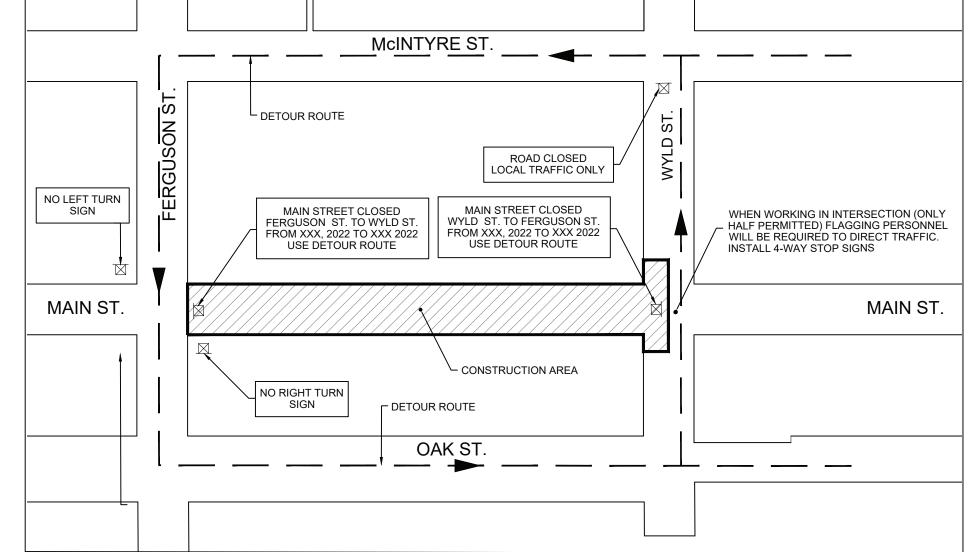
**BLOCK 1 - CASSELLS ST. TO FRASER ST.** 

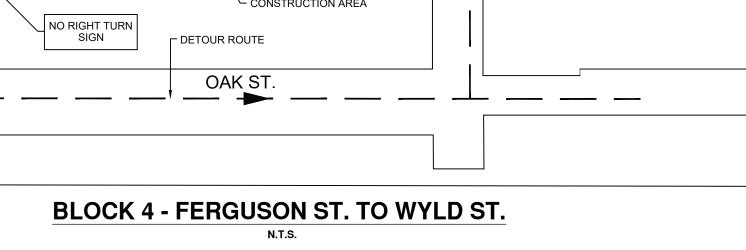


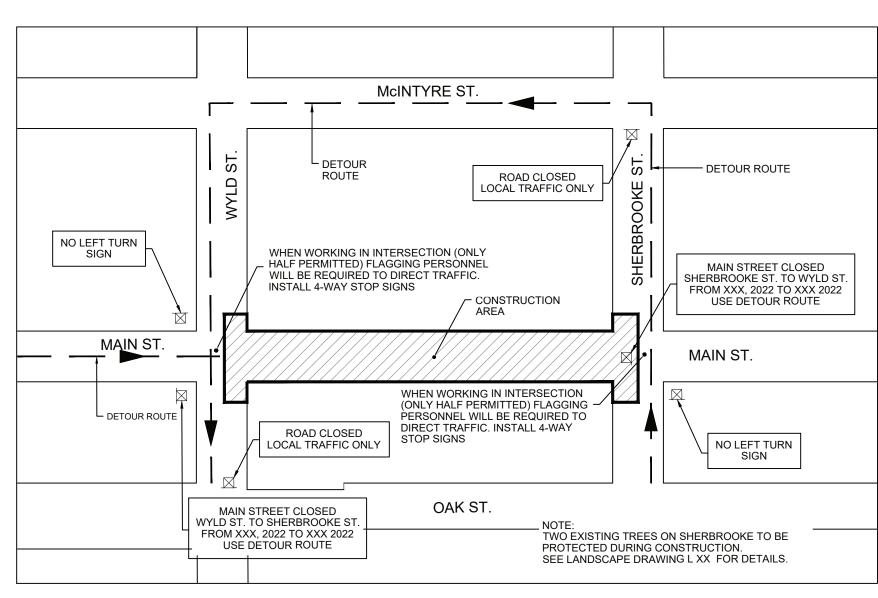
**BLOCK 3 - FERGUSON ST. BETWEEN OAK ST. AND MAIN ST.** 



**BLOCK 2 - FRASER ST. TO FERGUSON ST.** 







**BLOCK 5 - WYLD ST. TO SHERBROOKE ST.** 

SEE DRAWING ST-2 FOR GENERAL CONSTRUCTION STAGING NOTES.

### **KEY PLAN NOTES**

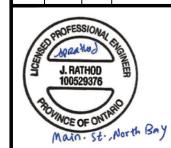
- THE UTILITIES INFORMATION **CONTAINED ON THIS DRAWING MAY B** BASED UPON DATA PROVIDED BY OTHERS AND MAY NOT HAVE BEEN **VERIFIED BY EITHER AS-CONSTRUCTED DRAWINGS OR AN** ONTARIO LAND SURVEYOR. THE CITY OF NORTH BAY CANNOT ACCEPT RESPONSIBILITY FOR ERRORS OR **OMISSIONS ON ANY INFORMATION** SHOWN 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.
- REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.
- ALL SIGNS TO BE INCLUDED IN THE TRAFFIC CONTROL AND SIGNAGE ITEM
- LOCAL TEMPORARY WAYFIND SIGNS SHALL BE PAID UNDER THE
- ALL DUCTS SHALL EXTEND TO THE

APPROPRIATE ITEM.

- LIMITS INDICATED IN THE STAGING
- **BINDER & SURFACE ASPHALT PAVING** SHALL EXTEND TO EACH CROSSWALK WITHIN THE BLOCK. ONLY BINDER WILL BE PAVED IN THE INTERSECTIONS UNTIL THE NEXT BLOCK IS COMPLETE WHEN THE FINAL ASPHALT WILL BE PAVED BETWEEN TWO COMPLETED BLOCKS.

### REVISIONS

ı	۷o.	Date	Ву	Description
	1	MAR 18 2022	JR	Issued for 90% Review
	2	JUNE 17 2022	JR	Issued for 100% Submission
	3	JAN 16 2023	JR	Issued for Tender
	4	MAR 31 2023	JR	Issued for Construction



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**Main Street** Reconstruction Cassells St to **Sherbrooke St** 

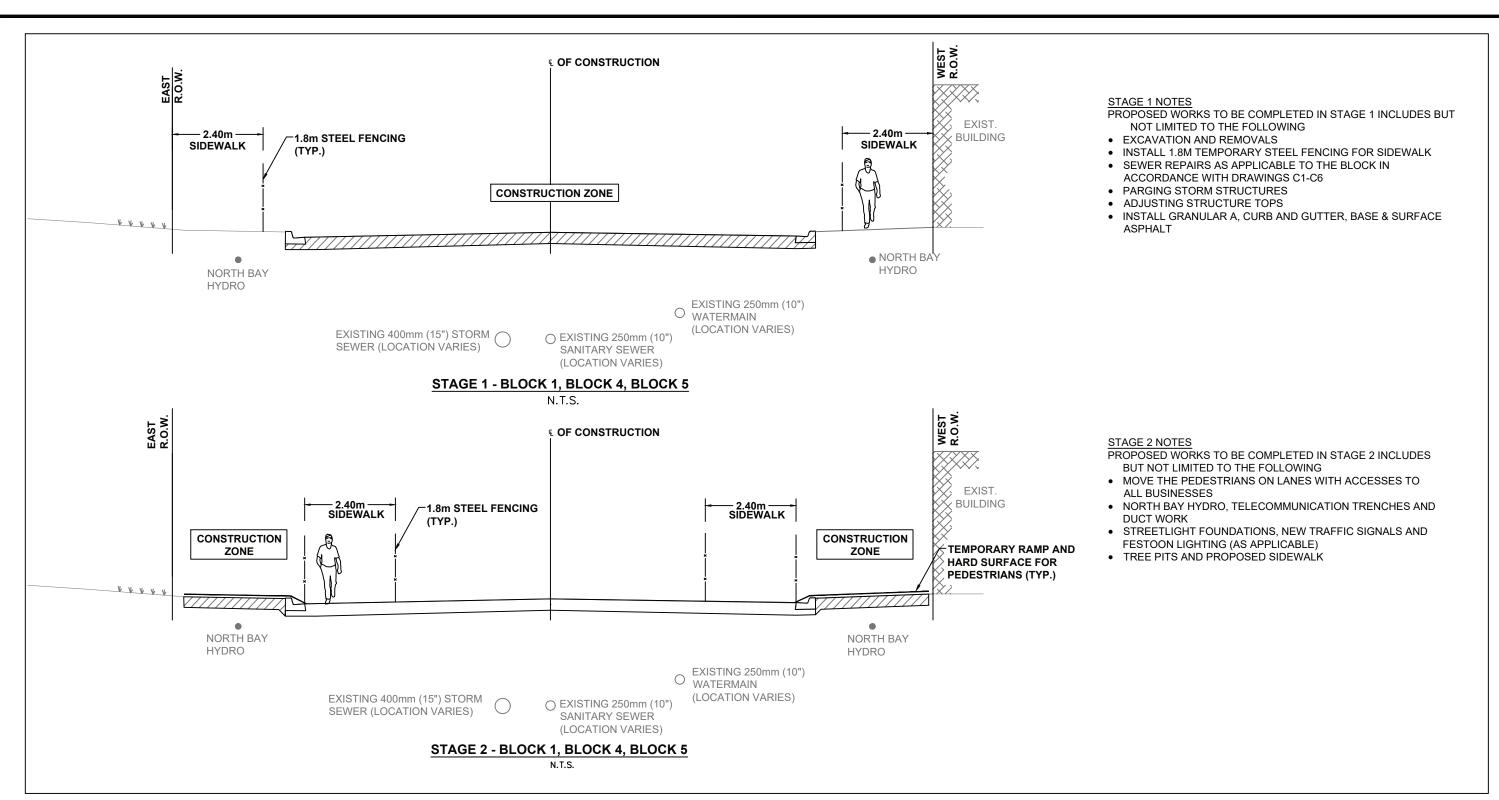
### **STAGING PLANS**

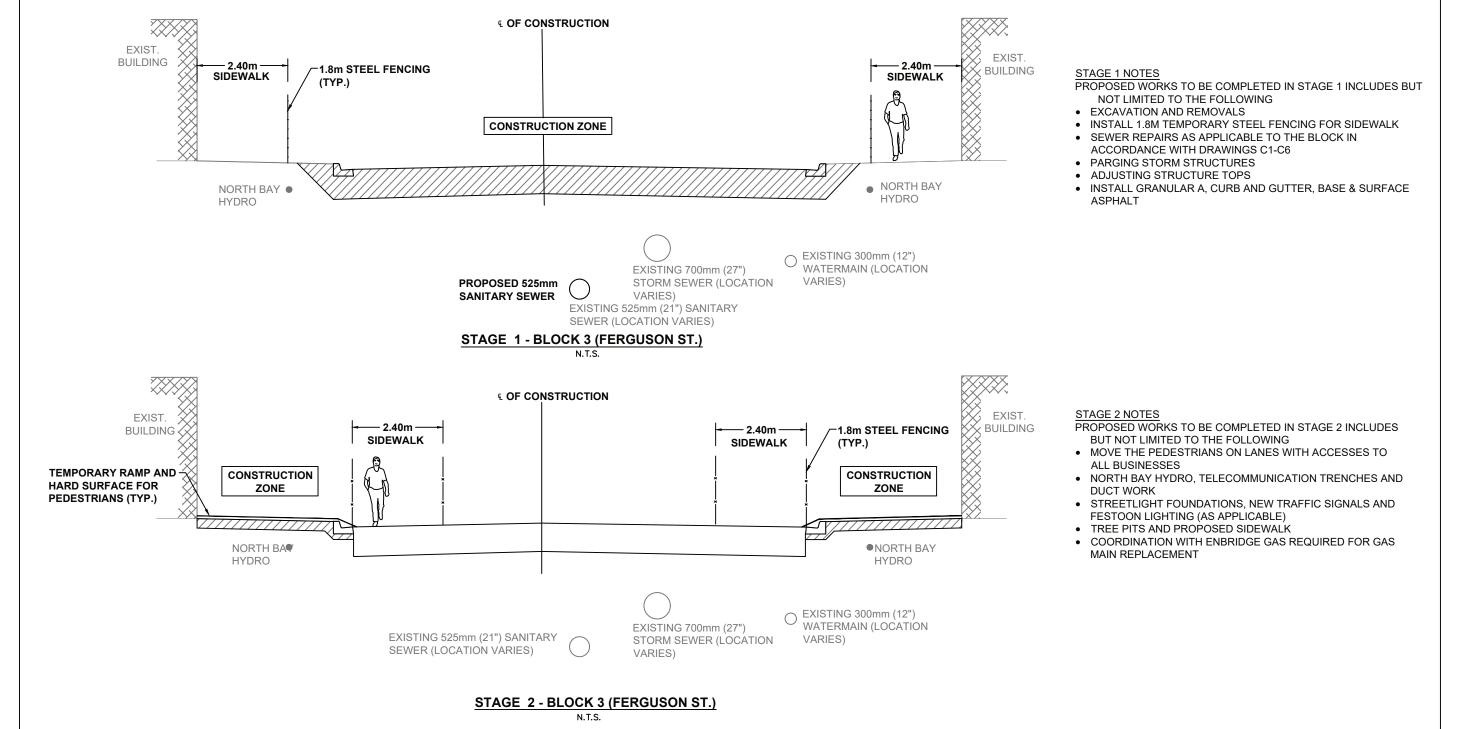
**Main St** Cassells St to Sherbrooke St.

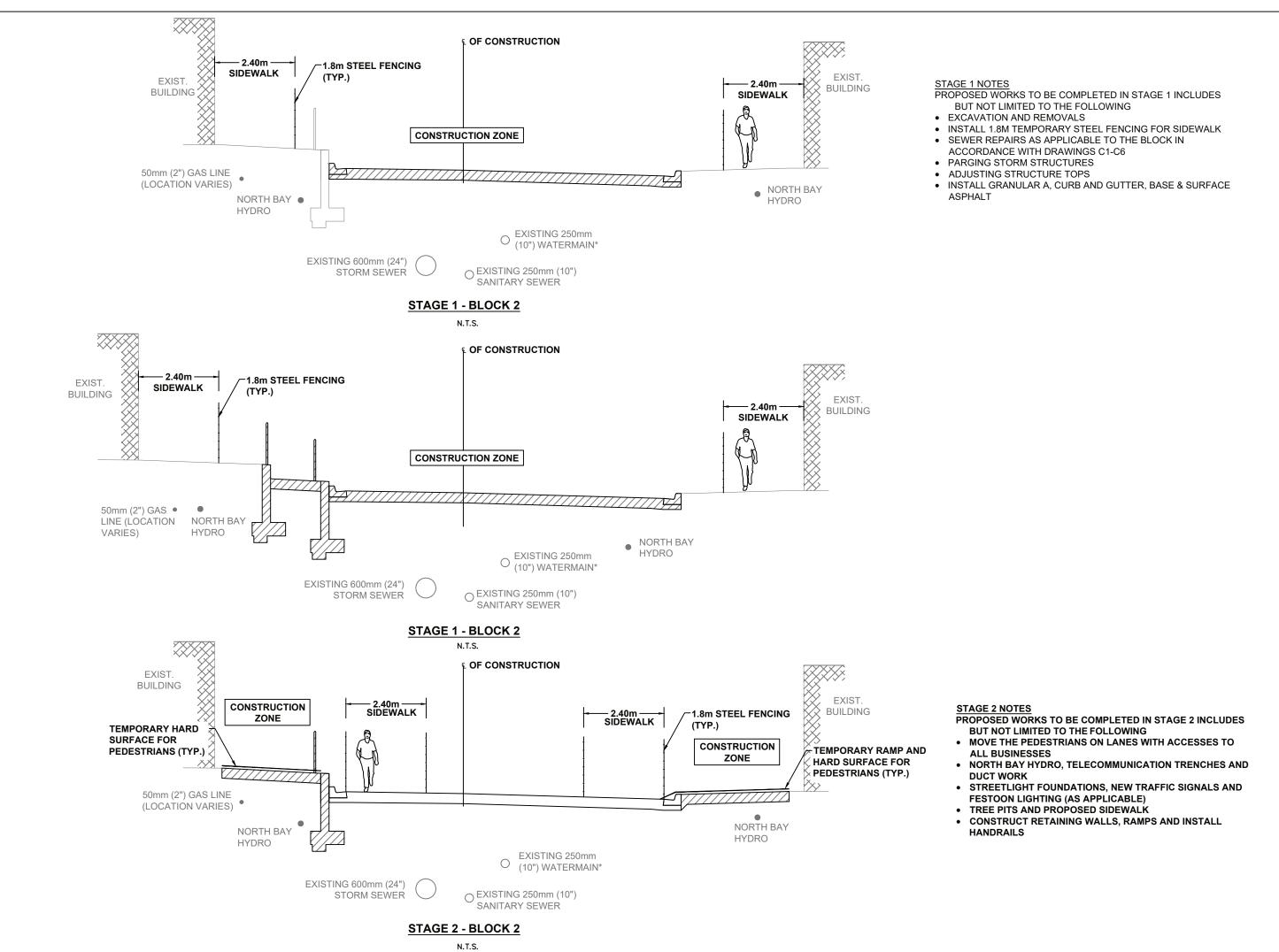
J.R.	J.M.B.
Date:	Approved by:
07/21/2021	J.R.
Scale	

Checked by:

Drawing Number: **Drawing Set:** ST-1 18 of 61











THE TEMPORARY BOARDWALK SHALL BE BOARDWALK TEMPORARY PORTABLE MODULAR RAMP FROM PSS (2444 BALDWIN ROAD, CLEVELAND, OHIO 44104 UNITED STATES - PHONE: 800-662-6339 / FAX: 216-231-2702) OR APPROVED EQUAL. EXAMPLE IMAGES SHOWN ABOVE FOR MODULAR RAMPS. CONTRACTOR SHALL SUBMIT ALTERNATE PRODUCT DETAILS TO CONTRACT

ADMINISTRATOR FOR REVIEW AND APPROVAL)



THE TEMPORARY HARD SURFACE FOR PEDESTRIANS SHALL BE 50mm SURFACE ASPHALT OR ECO-FLEX SIDEWALK BLOCKS (RECYCLED RUBBER SOLUTIONS - EDMONTON ALBERTA) (OR APPROVED EQUAL). EXAMPLE IMAGE SHOWN ABOVE FOR ECO-FLEX SIDEWALK BLOCKS CONTRACTOR SHALL SUBMIT ALTERNATE PRODUCT DETAILS TO CONTRACT ADMINISTRATOR FOR REVIEW AND APPROVAL)

- ANY AND ALL UTILITIES OR PROPERTY
  - REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.

**KEY PLAN** 

**NOTES** 

BASED UPON DATA PROVIDED BY

OTHERS AND MAY NOT HAVE BEEN

AS-CONSTRUCTED DRAWINGS OR AN

ONTARIO LAND SURVEYOR. THE CITY

OF NORTH BAY CANNOT ACCEPT

RESPONSIBILITY FOR 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

**CONTAINED ON THIS DRAWING MAY BE** 

THE UTILITIES INFORMATION

**VERIFIED BY EITHER** 

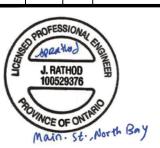
- ALL SIGNS TO BE INCLUDED IN THE TRAFFIC CONTROL AND SIGNAGE ITEM
- LOCAL TEMPORARY WAYFIND SIGNS SHALL BE PAID UNDER THE
- ALL DUCTS SHALL EXTEND TO THE

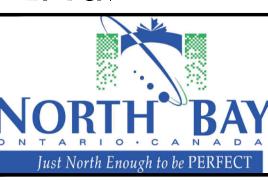
APPROPRIATE ITEM.

- LIMITS INDICATED IN THE STAGING
- **BINDER & SURFACE ASPHALT PAVING** SHALL EXTEND TO EACH CROSSWALK WITHIN THE BLOCK. ONLY BINDER WILL BE PAVED IN THE INTERSECTIONS UNTIL THE NEXT BLOCK IS COMPLETE WHEN THE FINAL ASPHALT WILL BE PAVED BETWEEN TWO COMPLETED BLOCKS.

### REVISIONS

No.	Date	Ву	Description
1	MAR 18 2022	JR	Issued for 90% Review
2	JUNE 17 2022	JR	Issued for 100% Submission
3	JAN 16 2023	JR	Issued for Tender
4	MAR 31 2023	JR	Issued for Construction





**Main Street** Reconstruction Cassells St to **Sherbrooke St** 

### STAGING DETAILS

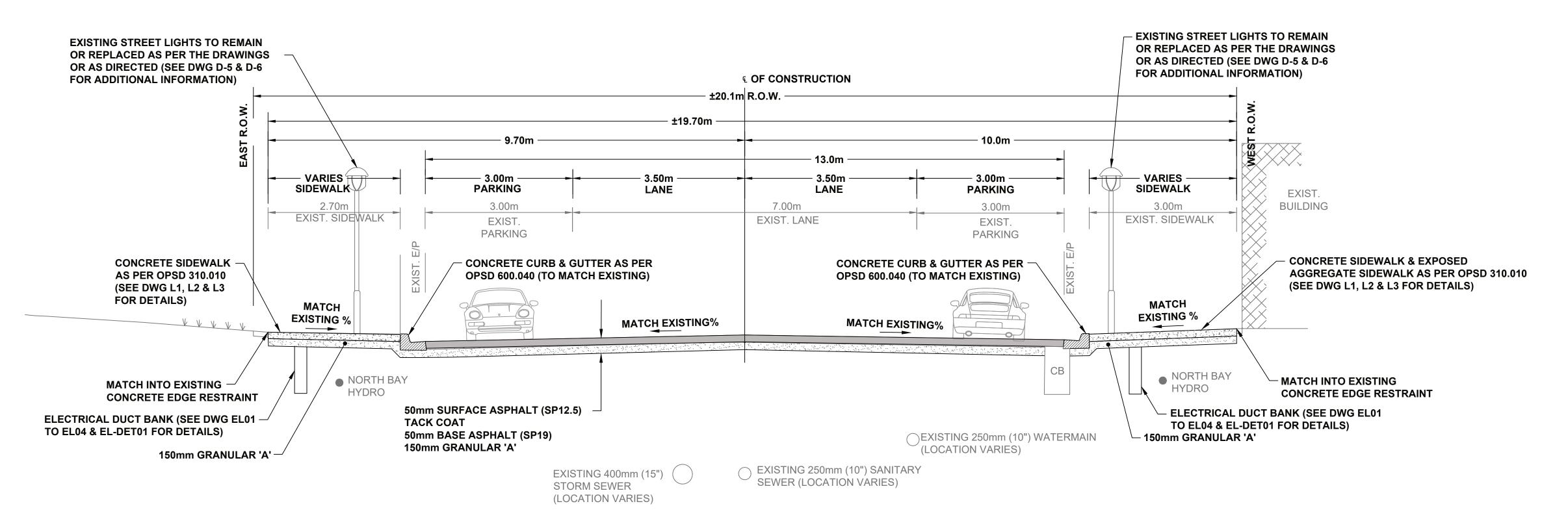
Main St **Cassells St to** Sherbrooke St.

Designer:	Checked by:		
J.R.	J.M.B.		
Date:	Approved by:		
07/21/2021	J.R.		

**Drawing Number: Drawing Set:** ST-2 19 of 61

### **GENERAL CONSTRUCTION STAGING NOTES:**

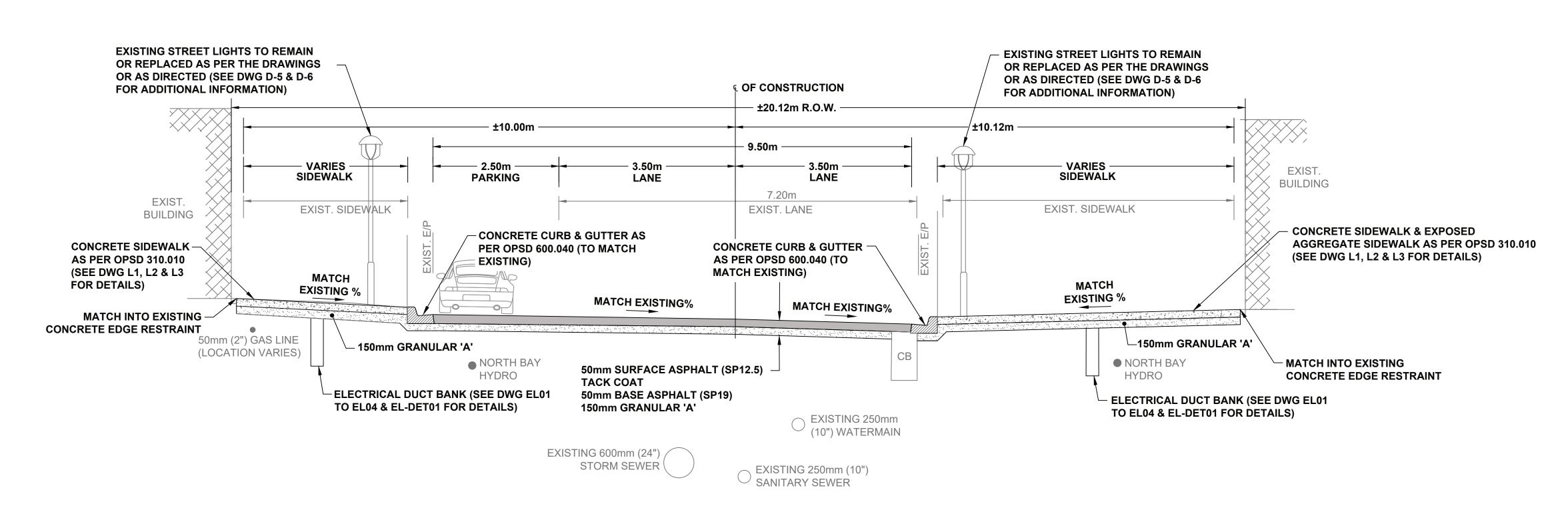
- 1. THE TRAFFIC CONTROL MEASURES ILLUSTRATED ON THE STAGING DRAWINGS ARE SUGGESTED CONCEPTS ONLY. THE CONTRACTOR IS REQUIRED TO PREPARE THEIR OWN STAGING AND TRAFFIC CONTROL & SIGNAGE PLAN IN ACCORDANCE WITH THE CURRENT EDITION OF OTM BOOK 7. THE CONTRACTOR SHALL SUBMIT THEIR STAGING PLANS TO THE CONTRACT ADMINISTRATOR ONE WEEK 8 PRIOR TO PROPOSED ROAD CLOSURES FOR REVIEW AND FEEDBACK PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL REVIEW REQUIREMENTS WITH RESPECT TO UTILITY WORKS; STUB AND CAP PROPOSED UTILITY DUCTS AT EACH BLOCK AS REQUIRED PRIOR TO MOVING TO THE NEXT CONSTRUCTION STAGE.
- THE CONTRACTOR SHALL INSTALL DETOUR SIGNS IN ACCORDANCE WITH CURRENT OTM BOOK 7. . THE CONTRACTOR SHALL NOT BE ALLOWED TO CLOSE MULTIPLE BLOCKS AT THE SAME TIME.
- PEDESTRIAN AND VEHICULAR TRAFFIC SHALL BE RESTORED TO NORMAL CONDITIONS PRIOR TO WORK ZONE AREA TO THE NEXT BLOCK
- 5. SEE CONSTRUCTION DRAWINGS FOR WORK LIMITS AND DETAILS. 6. THE CONTRACTOR SHALL REQUEST BLOCK CLOSURES AT LEAST 48 HOURS IN ADVANCE OR AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- 7. PRIOR TO CLOSING A BLOCK THE CONTRACTOR SHALL COORDINATE AND INFORM ALL THE LOCAL TRANSIT AND EMERGENCY SERVICE PROVIDERS FOR THE AREA AT LEAST 48 HOURS IN ADVANCE AND SHALL PROVIDE ACCESS TO THE EMERGENCY VEHICLES AT ALL TIMES.
- THE CONTRACTOR SHALL MAINTAIN AODA COMPLIANT TEMPORARY PEDESTRIAN ACCESS TO BUSINESSES IN THE WORK ZONE AREA DURING NORMAL BUSINESS OPERATING HOURS.
- 9. A FLAG PERSON SHALL BE PRESENT AT ALL PEDESTRIAN CROSSING. 10. THE CONTRACTOR TO INSTALL TEMPORARY, HARD SURFACED SIDEWALK AND DIRECTIONAL SIGNS FOR PEDESTRIANS UPON REMOVAL OF EXISTING SIDEWALK.
- 11. THE CONTRACTOR SHALL PLACE AND MAINTAIN FREE STANDING METAL FENCING TO SECURE AND PROTECT THE WORK ZONE 12. ANY ROCK EXCAVATION WILL ONLY BE ALLOWED BETWEEN 11PM TO 4PM OR AS APPROVED BY THE
- CONTRACTOR ADMINISTRATOR. 4. THE CONTRACTOR SHALL GET APPROVAL FROM THE CONTRACT ADMINISTRATOR PRIOR TO MOVING 13. THE CONTRACTOR SHALL ARRANGE AND PAY FOR THE PAID DUTY OFFICERS FOR TRAFFIC CONTROL WITHIN 30M OF SIGNALIZED INTERSECTION.
  - 14. "BUSINESSES OPEN DURING CONSTRUCTION" SIGNAGE TO BE INSTALL BY THE CONTRACTOR AT LOCATIONS AS APPROVED BY THE CONTRACT ADMINISTRATOR. 15. THE CONTRACTOR SHALL MAINTAIN ACCESS FOR GARBAGE, RECYCLING PICKUP AND DELIVERIES TO
  - ADJACENT BUSINESSES. WHERE ACCESS IS NOT AVAILABLE THE CONTRACTOR WILL PICK UP AND DELIVER THOSE ITEMS TO THE CLOSEST PICKUP LOCATION.



### MAIN STREET - CASSELLS STREET TO ALGONQUIN AVENUE

N.T.S.

TO BE READ IN CONJUCTION WITH GEOTECHNICAL REPORT P0018691.541 AS PREPARED BY ENGLOBE CORPORATION, DATED JANUARY 2022.



### MAIN STREET - ALGONQUIN AVENUE TO FRASER STREET

N.T.S.

TO BE READ IN CONJUCTION WITH GEOTECHNICAL REPORT P0018691.541 AS PREPARED BY ENGLOBE CORPORATION, DATED JANUARY 2022.

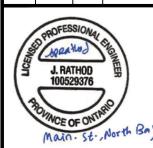
### **KEY PLAN**

### **NOTES**

- THE UTILITIES INFORMATION **CONTAINED ON THIS DRAWING MAY B** BASED UPON DATA PROVIDED BY OTHERS AND MAY NOT HAVE BEEN **VERIFIED BY EITHER** AS-CONSTRUCTED DRAWINGS OR AN ONTARIO LAND SURVEYOR. THE CITY OF NORTH BAY CANNOT ACCEPT RESPONSIBILITY FOR 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
- REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.
- CONCRETE SIDEWALK WILL MATCH GRADE OF EXISTING ELECTRICAL TRANSFORMERS AND STREETLIGHTS.

		RE	VISIONS
0.	Date	Bv	Description

	NO.	Date	ву	Description
	1	AUG 10 2021	JR	Issued for 30% Review
	2	DEC 3 2021	JR	Issued for 60% Review
	3	MAR 18 2022	JR	Issued for 90% Review
	4	JUNE 17 2022	JR	Issued for 100% Submission
	5	JAN 16 2023	JR	Issued for Tender
	6	MAR 31 2023	JR	Issued for Construction







**Main Street** Reconstruction Cassells St to **Sherbrooke St** 

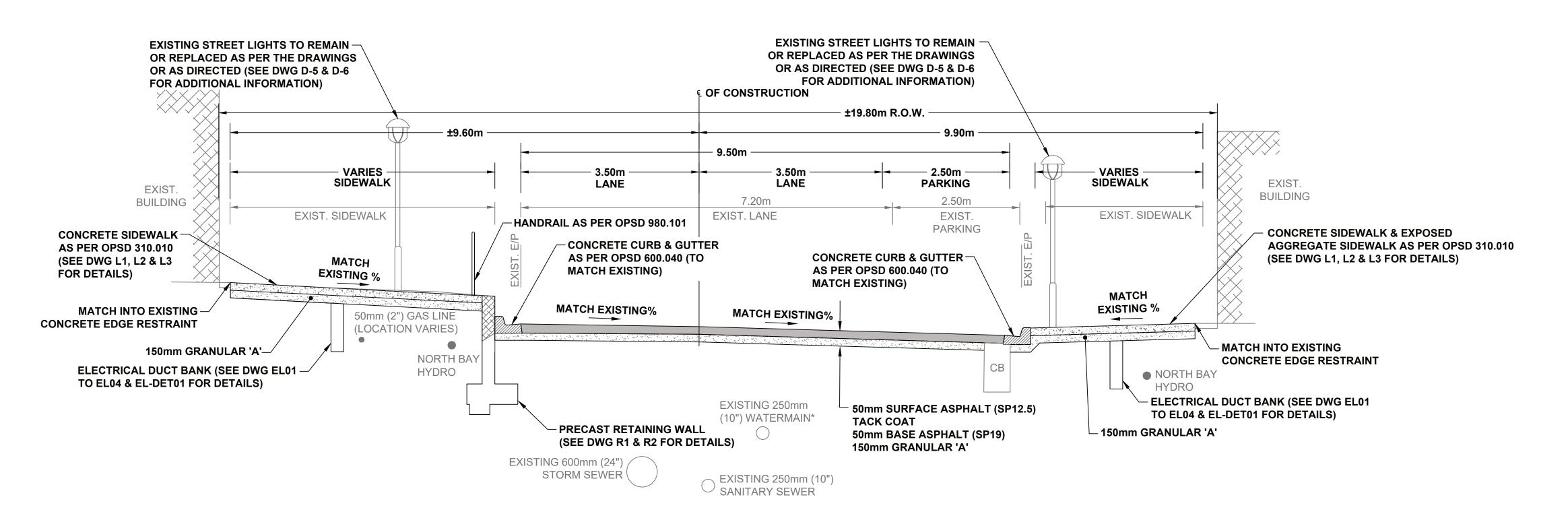
### TYPICAL SECTIONS (1 OF 4)

**Main St** Cassells St to Algonquin St.

J.R.	J.M.B.
Date:	Approved by:
07/21/2021	J.R.
Scale	

Checked by:

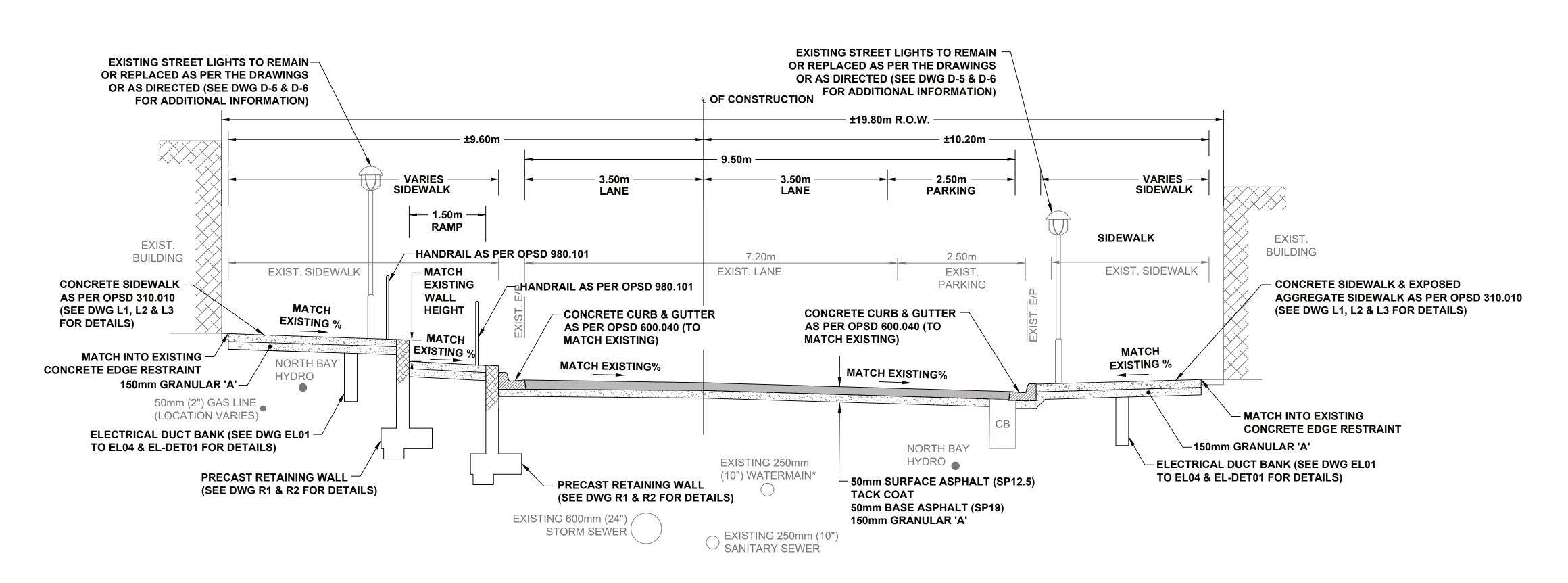
Drawing Number: Drawing Set: 20 of 61 **D-1** 



### MAIN STREET - FRASER STREET TO FERGUSON STREET

N.T.S

TO BE READ IN CONJUCTION WITH GEOTECHNICAL REPORT P0018691.541 AS PREPARED BY ENGLOBE CORPORATION, DATED JANUARY 2022.



### **MAIN STREET - FRASER STREET TO FERGUSON STREET**

N.T.S.

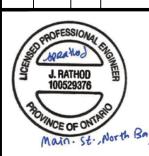
TO BE READ IN CONJUCTION WITH GEOTECHNICAL REPORT P0018691.541 AS PREPARED BY ENGLOBE CORPORATION, DATED JANUARY 2022.

### KEY PLAN

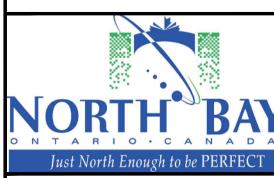
### <u>NOTES</u>

- THE UTILITIES INFORMATION
  CONTAINED ON THIS DRAWING MAY BE
  BASED UPON DATA PROVIDED BY
  OTHERS AND MAY NOT HAVE BEEN
  VERIFIED BY EITHER
  AS-CONSTRUCTED DRAWINGS OR AN
  ONTARIO LAND SURVEYOR. THE CITY
  OF NORTH BAY CANNOT ACCEPT
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  OMISSIONS ON ANY INFORMATION
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  LAND SURVEYS OR EXCAVATION (WITH
  CITY APPROVALS) MAY BE REQUIRED
  TO DETERMINE ACTUAL LOCATION OF
  ANY AND ALL UTILITIES OR PROPERTY
  LINES.
- 2. REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.
- 3. CONCRETE SIDEWALK WILL MATCH GRADE OF EXISTING ELECTRICAL TRANSFORMERS AND STREETLIGHTS

	REVISIONS					
ο.	Date	Ву	Description			
1	AUG 10 2021	JR	Issued for 30% Review			
,	DEC 3	.IR	Issued for 60% Review			



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Main Street
Reconstruction
Cassells St to
Sherbrooke St

### TYPICAL SECTIONS (2 OF 4)

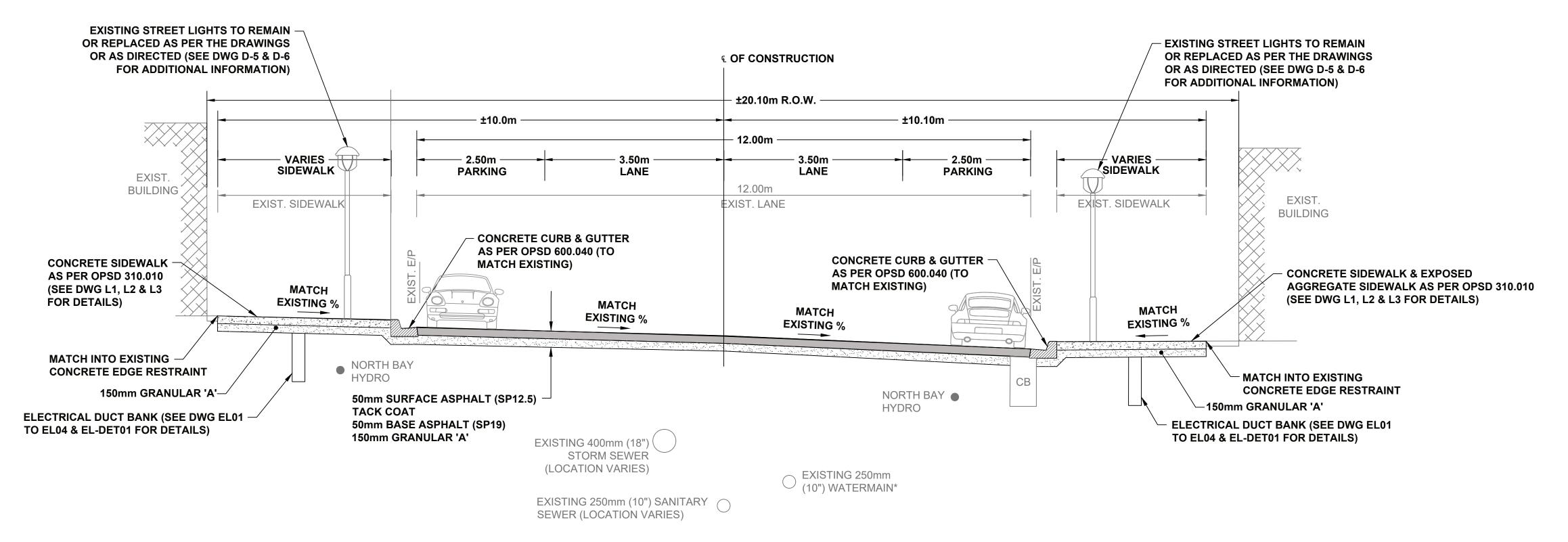
Main St Fraser St to Ferguson St.

Designer:	Checked by:
J.R.	J.M.B.
Date:	Approved by:
07/21/2021	J.R.
Scale	

Drawing Number:

**D-2** 

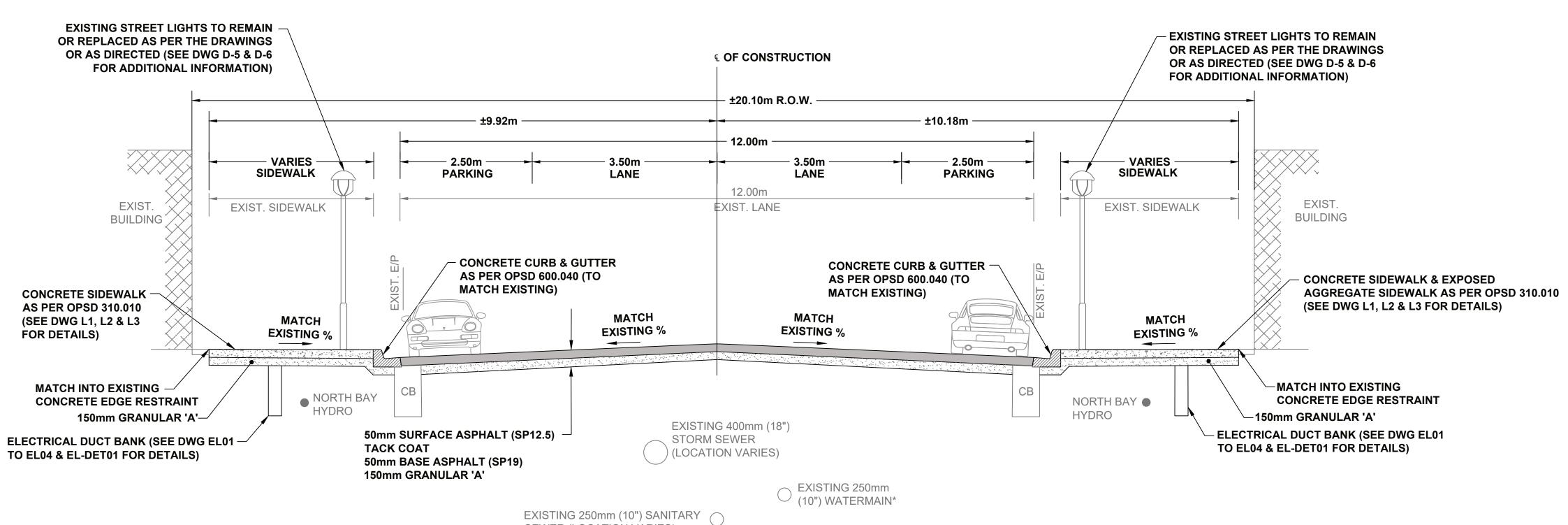
Drawing Set: 21 of 61



### MAIN STREET - FERGUSON STREET TO WYLD STREET

N.T.S.

TO BE READ IN CONJUCTION WITH GEOTECHNICAL REPORT P0018691.541 AS PREPARED BY ENGLOBE CORPORATION, DATED JANUARY 2022.



### MAIN STREET - WYLD STREET TO SHERBROOKE STREET

N.T.S.

SEWER (LOCATION VARIES)

TO BE READ IN CONJUCTION WITH GEOTECHNICAL REPORT P0018691.541 AS PREPARED BY ENGLOBE CORPORATION, DATED JANUARY 2022.

### **KEY PLAN**

### NOTES

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  LINES.
- REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.
- 3. CONCRETE SIDEWALK WILL MATCH GRADE OF EXISTING ELECTRICAL TRANSFORMERS AND STREETLIGHTS.

### REVISIONS

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Main Street
Reconstruction
Cassells St to
Sherbrooke St

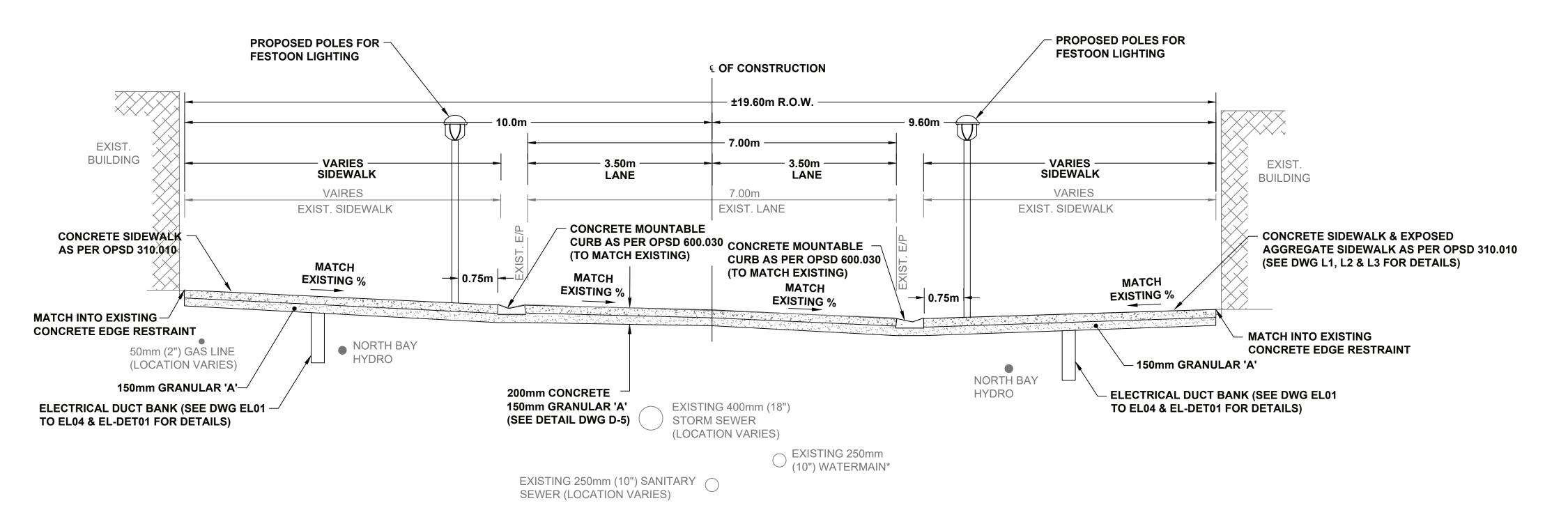
TYPICAL SECTIONS (3 OF 4)

Main St Ferguson St to Sherbrooke St

Designer: J.R.	Checked by: J.M.B.
Date:	Approved by:
07/21/2021	J.R.
Coole	•

Scale

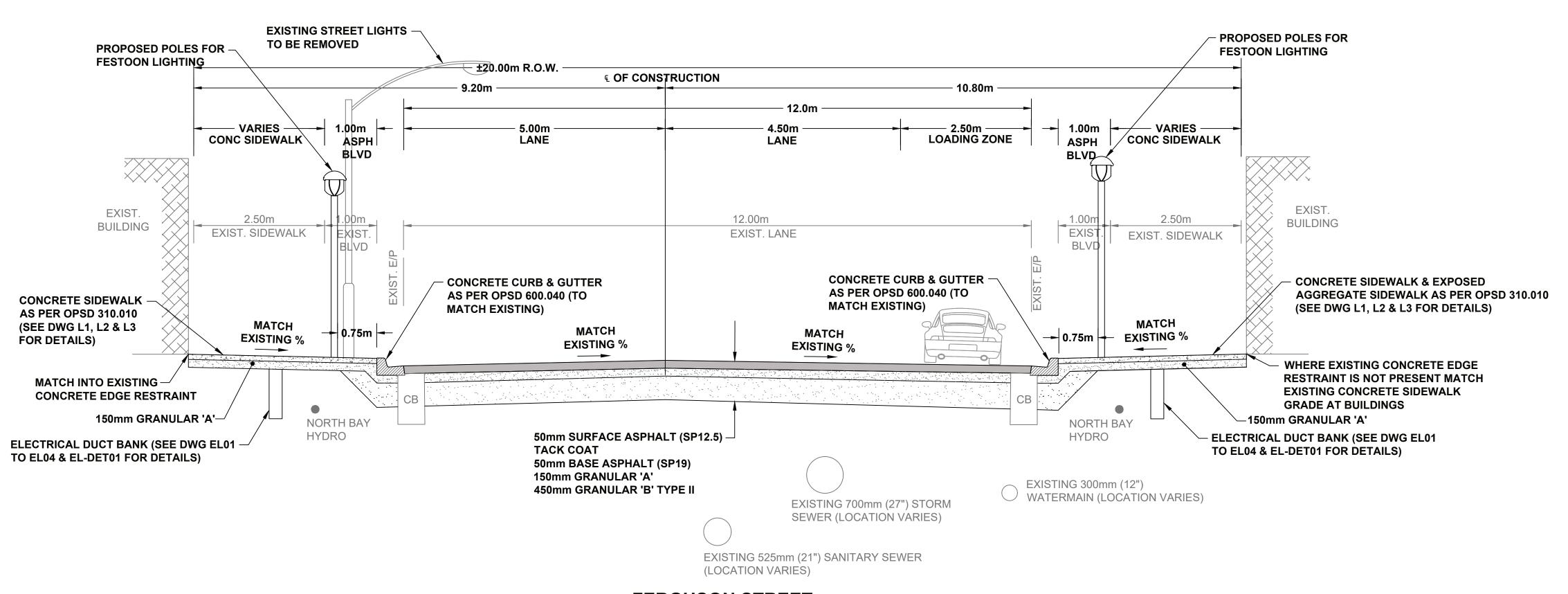
Drawing Number: Drawing Set: 22 of 60



### MAIN STREET - CONCRETE MIDBLOCK CROSS WALK

NTS

TO BE READ IN CONJUCTION WITH GEOTECHNICAL REPORT P0018691.541 AS PREPARED BY ENGLOBE CORPORATION, DATED JANUARY 2022.



### **FERGUSON STREET**

N.T.S.

TO BE READ IN CONJUCTION WITH GEOTECHNICAL REPORT P0018691.541 AS PREPARED BY ENGLOBE CORPORATION, DATED JANUARY 2022.

### KEY PLAN

### NOTES

THE UTILITIES INFORMATION
CONTAINED ON THIS DRAWING MAY BE
BASED UPON DATA PROVIDED BY
OTHERS AND MAY NOT HAVE BEEN
VERIFIED BY EITHER
AS-CONSTRUCTED DRAWINGS OR AN
ONTARIO LAND SURVEYOR. THE CITY
OF NORTH BAY CANNOT ACCEPT
RESPONSIBILITY FOR 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.

REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.

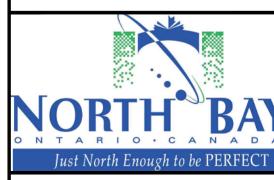
 CONCRETE SIDEWALK WILL MATCH GRADE OF EXISTING ELECTRICAL TRANSFORMERS AND STREETLIGHTS

### REVISIONS

No.	Date	Ву	Description
1	AUG 10 2021	JR	Issued for 30% Review
2	DEC 3 2021	JR	Issued for 60% Review
3	MAR 18 2022	JR	Issued for 90% Review
4	JUNE 17 2022	JR	Issued for 100% Submission
5	JAN 16 2023	JR	Issued for Tender
6	MAR 31 2023	JR	Issued for Construction



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Main Street
Reconstruction
Cassells St to
Sherbrooke St

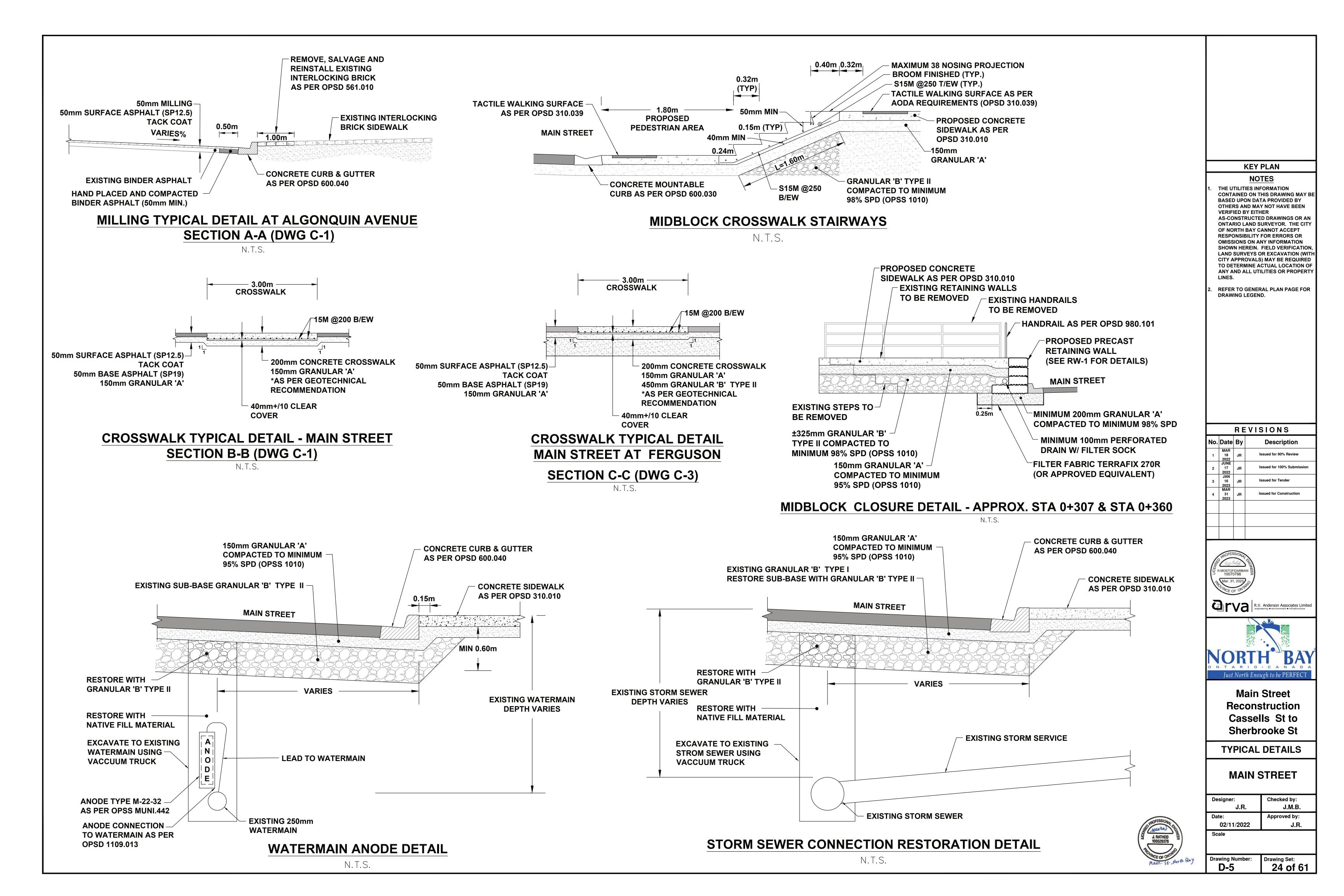
TYPICAL SECTIONS (4 OF 4)

### Ferguson St

Designer:	Checked by:
J.R.	J.M.B.
Date:	Approved by:
07/21/2021	J.R.
Scale	

Drawing Number: Drawing D-4

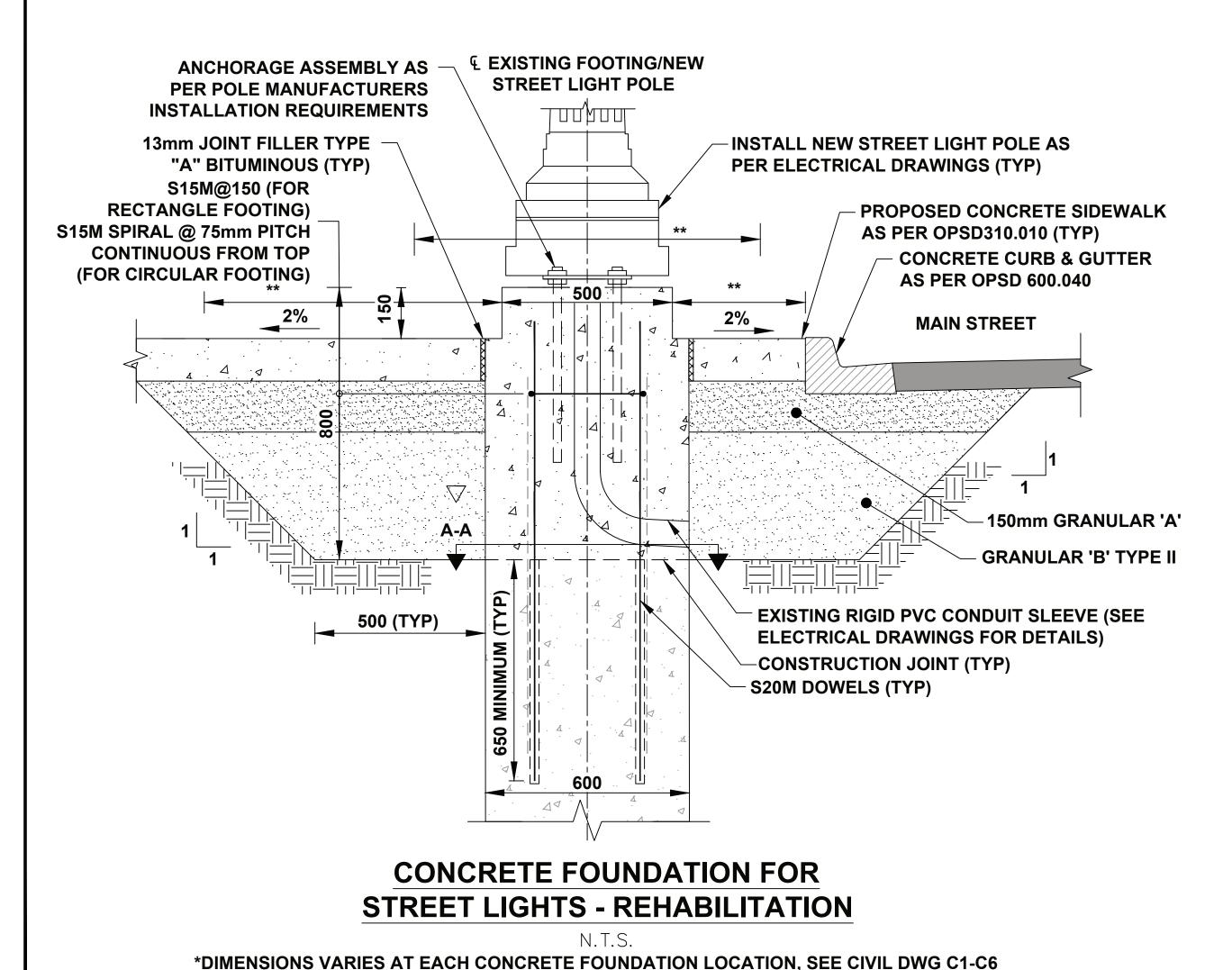
Drawing Set: 23 of 61



### **EXISTING FOOTING** REMOVE EXISTING STREET REMOVE EXISTING NUTS & — LIGHT POLE (TYP) WASHERS (TYP) 19mm CHAMFER - REMOVE EXISTING INTERLOCKING **REMOVAL DEPTH OF** BRICK, CURB & GUTTER (TYP) **EXISTING FOOTING MAIN STREET** LIMITS OF **EXCAVATION** - REMOVE EXISTING DOWELS RETAIN, PROTECT AND **EXISTING RIGID PVC** SANDBLAST EXISTING VERTICAL **CONDUIT SLEEVE TO BE REINFORCEMENT (TYP)** PROTECTED FOR RE-USE **CONCRETE FOUNDATION FOR**

\*DIMENSIONS VARIES AT EACH CONCRETE FOUNDATION LOCATION, SEE CIVIL DWG C1-C6 NOTE: PROTECT AND RE-USE EXISTING DUCT c/w POWER CABLES

STREET LIGHTS - REMOVAL



NOTE: PROTECT AND RE-USE EXISTING DUCT c/w POWER CABLES

- 1. READ THIS DRAWING IN CONJUNCTION WITH DRAWING C1-C6
- 2. CLASS OF CONCRETE SHALL BE 30 MPa
- CLEAR COVER TO REINFORCING STEEL SHALL ME MINIMUM 100mm
- REINFORCING STEEL SHALL BE GRADE 400W
- BAR MARKS WITH PREFIX 'S' DENOTE STAINLESS STEEL BARS
- STAINLESS REINFORCING STEEL BARS SHALL BE TYPE 316LN OR DUPLEX 2205 AND HAVE A MINIMUM YIELD STRENGTH OF 500 MPa, UNLESS **OTHERWISE SPECIFIED**
- 7. UNLESS SHOWN OTHERWISE, TENSION LAP SPLICES FOR REINFORCING STEEL BAR SHALL BE CLASS 'B'
- 8. THE REINFORCING STEEL ASSEMBLY SHALL BE CAREFULLY FABRICATED TO **ENSURE THE ANCHORAGE ASSEMBLY WILL FIT**
- 9. EACH ANCHORAGE ASSEMBLY SHALL BE PROVIDED WITH A TEMPLATE
- 10. ANCHORAGE ASSEMBLY SHALL BE INSTALLED VERTICALLY. NO ADJUSTMENTS SHALL BE ALLOWED AFTER CONCRETE IS PLACED IN **FOOTING**
- 11. FOR FINISHED GRADE ELEVATION. REFER TO DRAWINGS C1-C6
- 12. NEW LIGHTING POLE SHALL NOT BE INSTALLED UNTIL THE NEW CONCRETE IN FOOTING HAS REACHED A STRENGTH OF 30 MPa
- 13. CONTRACTOR WILL COORDINATE LIGHT POLE REHBILITATION WITH NORTH BAY HYDRO TO ENSURE POWER IS SHUT OFF PRIOR TO COMMENCING WORK.

### **LEGEND**

**REMOVAL** 

**NEW CONCRETE** 

**EXISTING CONCRETE** 

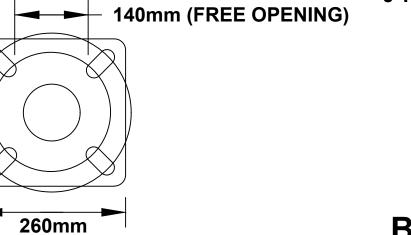
**EXISTING REINFORCEMENT** 

NEW REINFORCEMENT

**BOLT CIRCLE: 241mm** MATERIAL: CAST IRON

**BOLT CIRCLES ALLOWED: 229mm to 254mm** 

4 ANCHOR BOLTS, 1" x 33" + 3" J TYPE BOLTS, 8 NUTS AND 8 WASHERS



15M SPIRAL @ 75mm PITCH

600mm Ø FOOTING

20M DOWELS (EQUALLY SPACED)

SOUND CONCRETE

DRILL 25mm 650mm DEEP HOLES INTO

FILL HOLES WITH APPROVED DOWEL

**CONTINUOUS FROM TOP** 

**PROJECTION** 

**ANCHOR PLATE** N.T.S.

**BOLTS & BASE INFORMATION** 

N.T.S. \*ANCHOR PLATE ASSEMBLY AND BOLTS & BASE INFORMATION AS PER POLE MANUFACTURER

**€** FOOTING

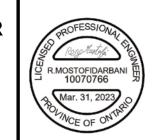
100mm MIN. COVER

90° BENT INTO THE

**SPIRAL** 

**CORE OF FOUNDATION** 

AT TOP & BOTTOM OF



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**KEY PLAN** 

**NOTES** 

**CONTAINED ON THIS DRAWING MAY I** 

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OTHERS AND MAY NOT HAVE BEEN

**AS-CONSTRUCTED DRAWINGS OR A** 

**RESPONSIBILITY FOR ERRORS OR OMISSIONS ON ANY INFORMATION** 

**CITY APPROVALS) MAY BE REQUIRED** 

TO DETERMINE ACTUAL LOCATION OF ANY AND ALL UTILITIES OR PROPERT

**EXCAVATION ON SITE WITH FIELD** 

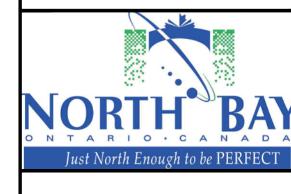
REVISIONS

Description

Issued for 90% Review

THE UTILITIES INFORMATION

**VERIFIED BY EITHER** 



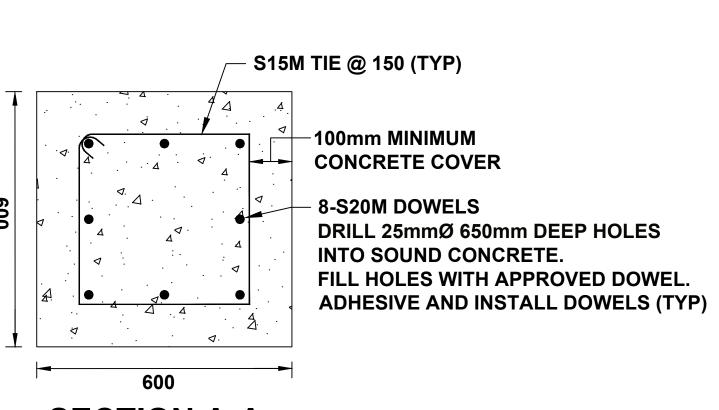
**Main Street** Reconstruction Cassells St to **Sherbrooke St** 

POLE FOUNDATION **REHABILITATION DETAILS** 

**MAIN STREET** 

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S.N.
Approved by:
S.N.

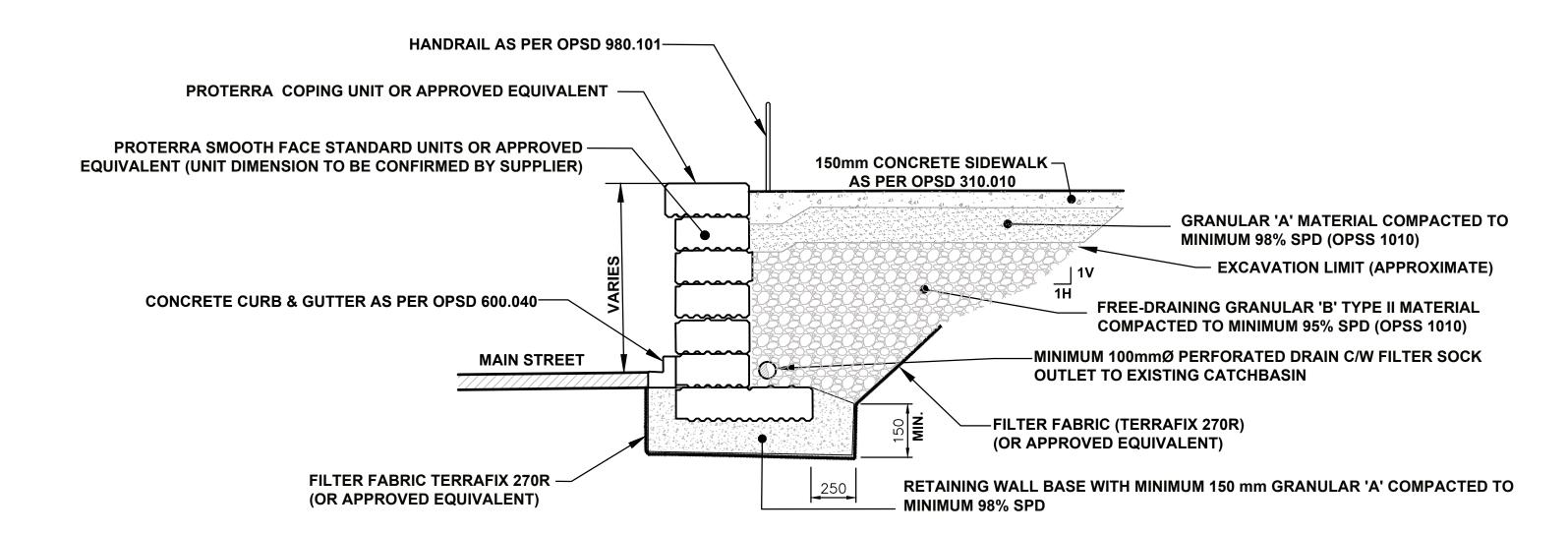
Drawing Set: 25 of 61 **D-6** 



**SECTION A-A** 

ADHESIVE AND INSTALL DOWELS (TYP.) **SECTION A-A** 

300



### TYPICAL RETAINING WALL CONCEPTUAL SECTION

PRECAST CONCRETE RETAINING WALL SYSTEM DEPICTED IS PROTERRA SMOOTH FACE UNITS

TOP OF RETAINING WALL \

N.T.S.

### **RETAINING WALL NOTES:**

- 1. INFORMATION AND DETAILS PROVIDED ARE INTENDED FOR GRADING AND CONCEPTUAL DESIGN PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE FINAL STRUCTURAL DESIGN IN COMPLIANCE WITH THE ONTARIO BUILDING CODE 2012, INCLUDING LATEST UPDATES. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER LICENSED IN ONTARIO, INCLUDING GEOTECHNICAL DESIGN REVIEW AND RECOMMENDATIONS.
- 2. VERIFY ALL THE DIMENSIONS. REPORT DISCREPANCIES TO THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING WITH CONSTRUCTION.
- 3. PLACE FILTER FABRIC BETWEEN PREPARED SUBGRADE AND GRANULAR BASE.
- 4. THE FOUNDING SOIL SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER RETAINED BY CONTRACTOR TO CONFIRM THE BEARING CAPACITY AND SLOPE STABILITY. REFER TO GEOTECHINAL REPORT BY ENGLOBE P0018691.541, JANUARY 2022 FOR SOIL BEARING CAPACITIES. SEE TABLE BELOW.
- 5. BACKFILLING AND COMPACTION SHALL BE UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER RETAINED BY THE CONTRACTOR. ONLY HAND OPERATED COMPACTION EQUIPMENT TO BE USED BEHIND THE RETAINING WALL.
- 6. STATIONS AND ELEVATIONS ARE APPROXIMATE AND ARE TO BE VERIFIED PRIOR TO CONSTRUCTION OF RETAINING WALL. VERTICAL AND HORIZONTAL ALIGNMENT TO BE VERIFIED DURING CONSTRUCTION.
- 7. THE RETAINING WALL SHALL NOT BE CONSTRUCTED ON A FROZEN BASE AND SHALL NOT BE BACKFILLED WITH FROZEN MATERIAL.
- 8. AT NO TIME SHOULD THE WALL HEIGHT EXCEED 2 COURSES WITHOUT BACKFILLING AND COMPACTION
- 9. WALL APPEARANCE TO BE SMOOTH FACE AND COLOR TO BE DETERMINED BY THE OWNER. PROVIDE SHOP DRAWING FOR REVIEW.

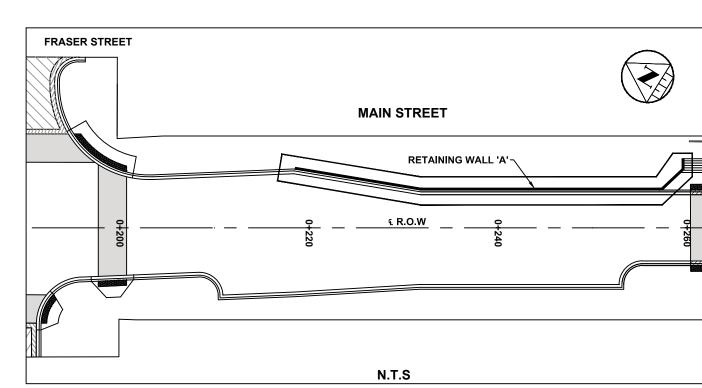
# DEPTH (m) 0.3 1.0 1.5\* 2.0\* \*Subsurface conditions (ie. presence of existing 205

### TABLE 10 - BEARING CAPACITY FOR SHALLOW FOUNDATIONS

(SEE NOTE 5)

	(SEE NOTE 5)			
FOOTING	FOOTINGS ON EXISTING FILL			
FOOTING DEPTH (m)	BEARING CAPACITY AS ULS (kPa)	BEARING CAPACITY AS SLS (kPa)		
0.3	100	80		
1.0	250	125		
1.5*	300	125		
2.0*	300	125		

\*Subsurface conditions (ie. presence of existing fills) to be verified prior to establishing footings at this depth



### RETAINING WALL 'A' PROFILE - MAIN STREET

**Main Street** 

NOTE: TOP OF WALL SHOULD BE 'LEVEL' J AND STEPPED. CONTRACTOR TO CONFIRM

**EXACT LAYOUT** 

STA 0+219 TO STA 0+259

APPROX. AREA = 14.8m<sup>2</sup> ¬

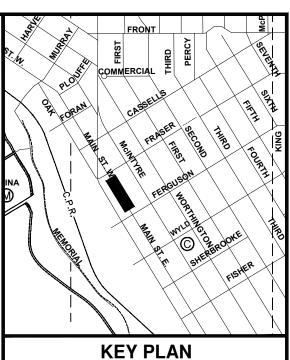
**RETAINING WALL** 

TOP OF CURB/BOTTOM OF -/

205.28

205.21

205.23 205.23



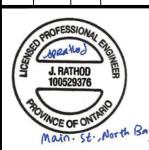
### NOTES

### **NOTES**

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REFER TO GENERAL PLAN PAGE FOR DRAWING LEGEND.

	REVISIONS						
No.	Date	Ву	Description				
1	DEC 3 2021	JR	Issued for 60% Review				
2	MAR 18 2022	JR	Issued for 90% Review				
3	JUNE 17 2022	JR	Issued for 100% Submission				
4	JAN 16 2023	JR	Issued for Tender				
5	MAR 31 2023	JR	Issued for Construction				





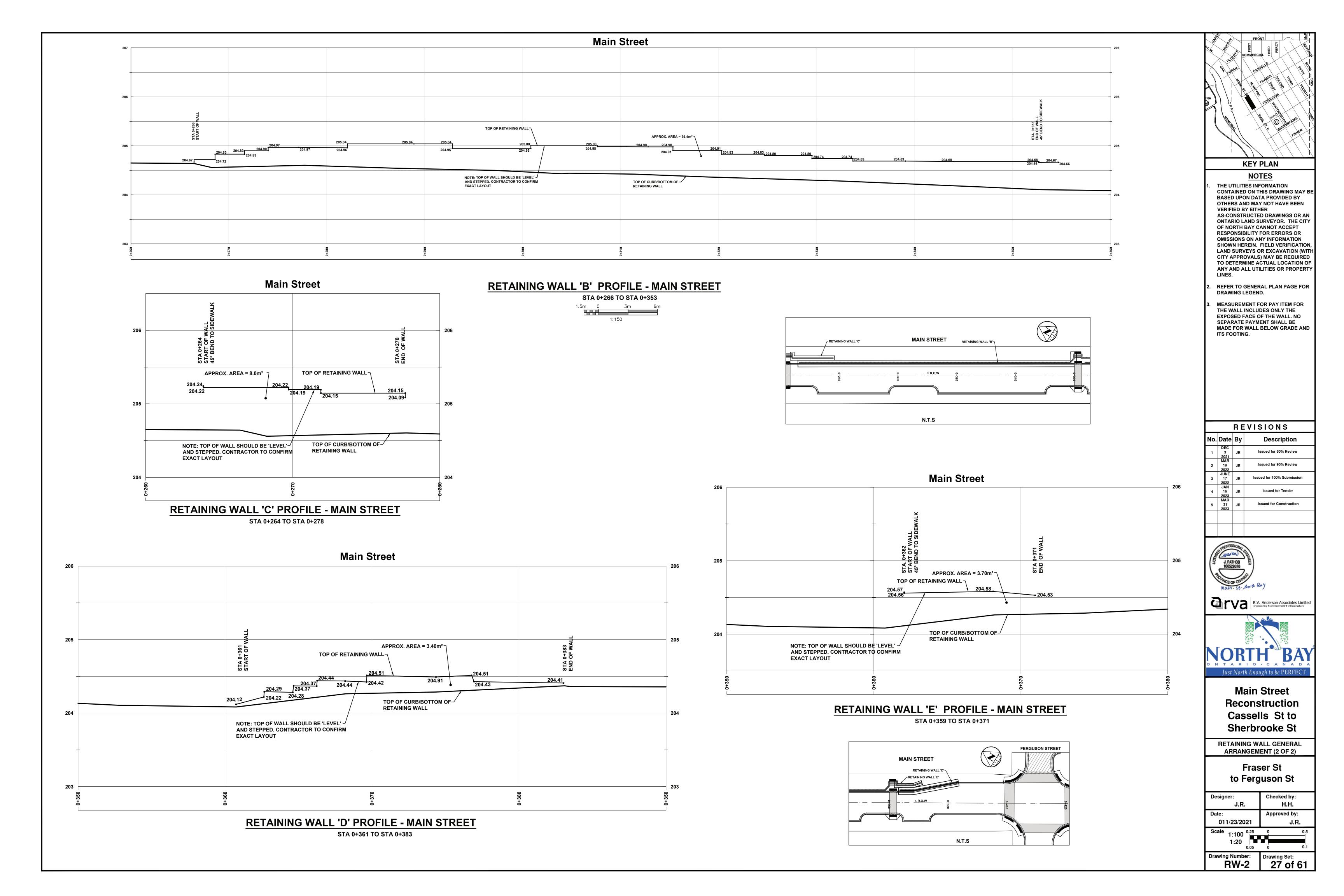


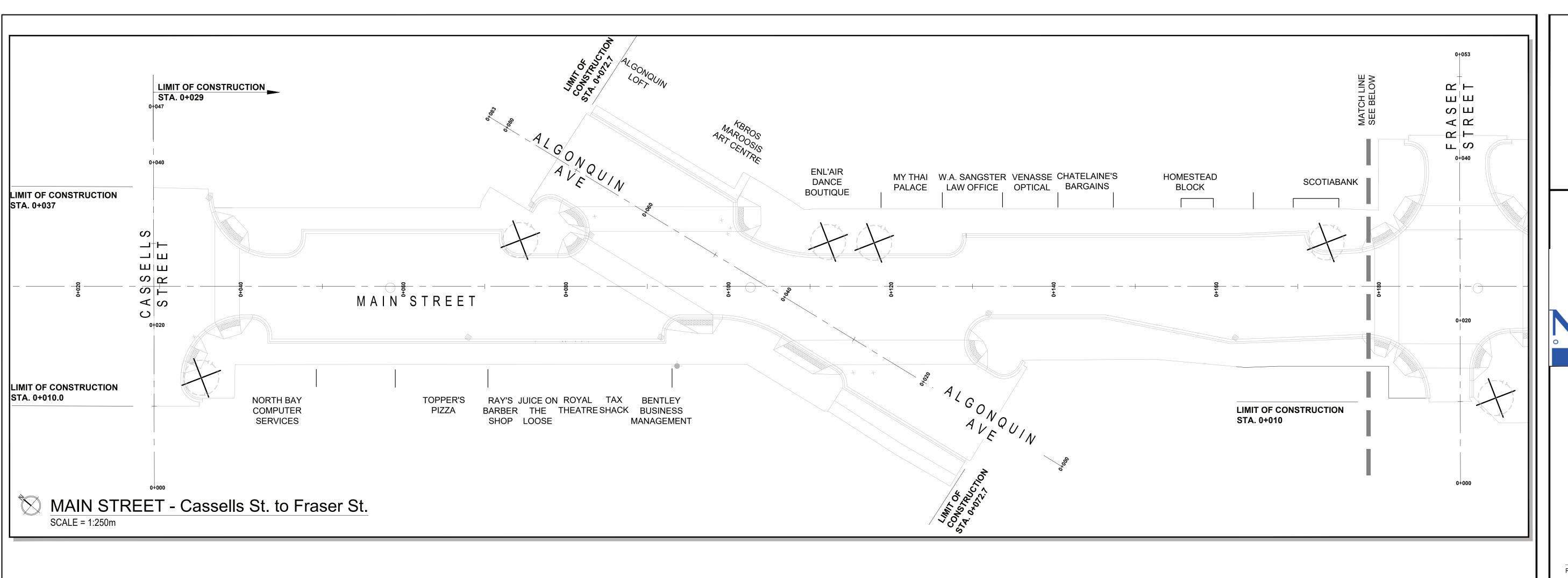
Main Street
Reconstruction
Cassells St to
Sherbrooke St

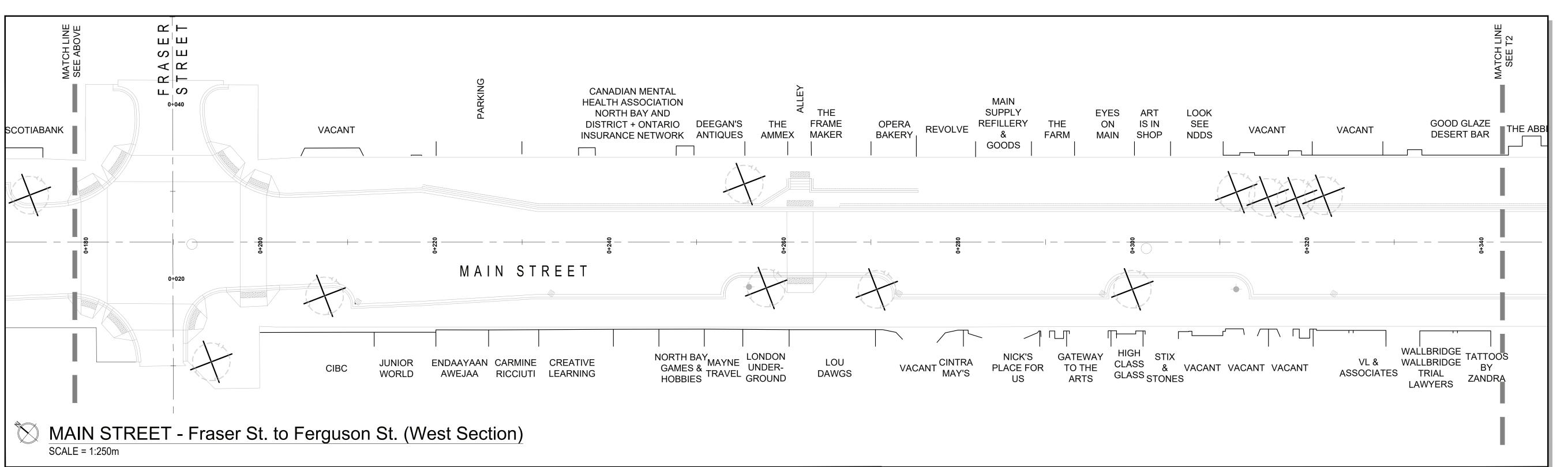
RETAINING WALL GENERAL ARRANGEMENT (1 OF 2)

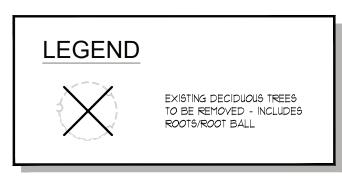
Fraser St to Ferguson St

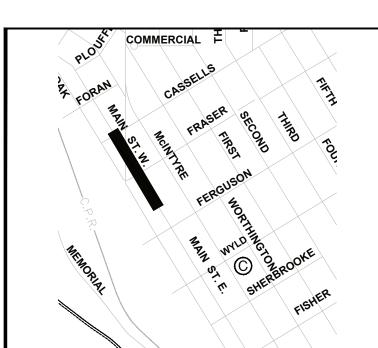
Designer:	Checked by:
J.R.	H.H.
Date:	Approved by:
11/23/2021	J.R.
Scale 1:100 0.25	0 0.5

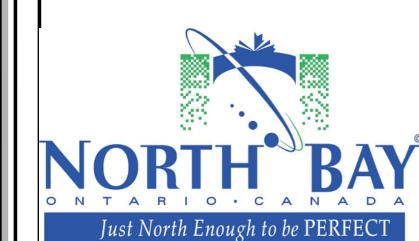














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 MAR. 3I, 2023
 ISSUED FOR CONSTRUCTION
 6.

 JAN. 12, 2023
 ISSUED FOR TENDER
 5.

 JUNE IT, 2022
 ISSUED FOR IQQ% SUBMISSION
 4.

 MAR. 18, 2022
 90% DESIGN SUBMISSION
 3.

 DEC. 2, 2021
 60% DESIGN SUBMISSION
 2.

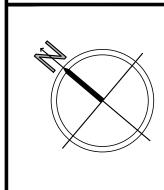
 JULY 30, 2021
 30% DESIGN SUBMISSION
 1

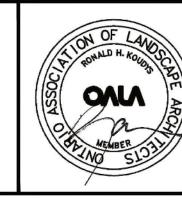
 DATE
 DESCRIPTION
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PLOTTING INFORMATION:

PLOTTED DATE = JANUARY 12, 2023

PLOTTED SCALE = 1:1





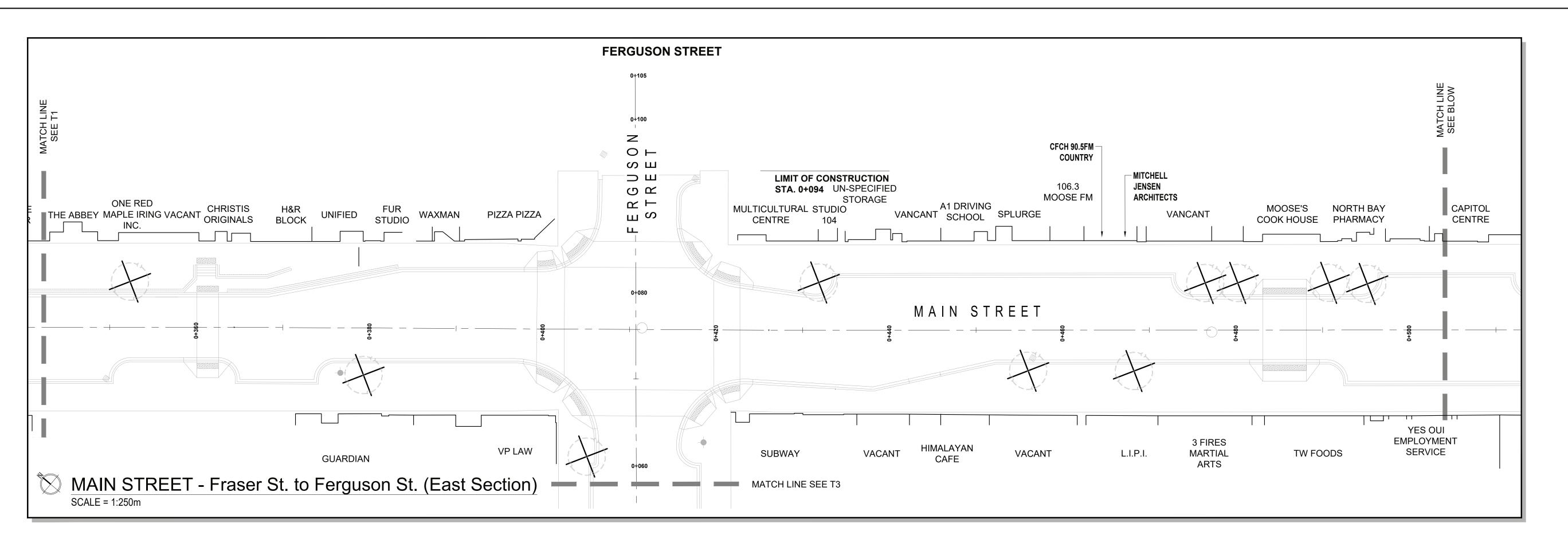
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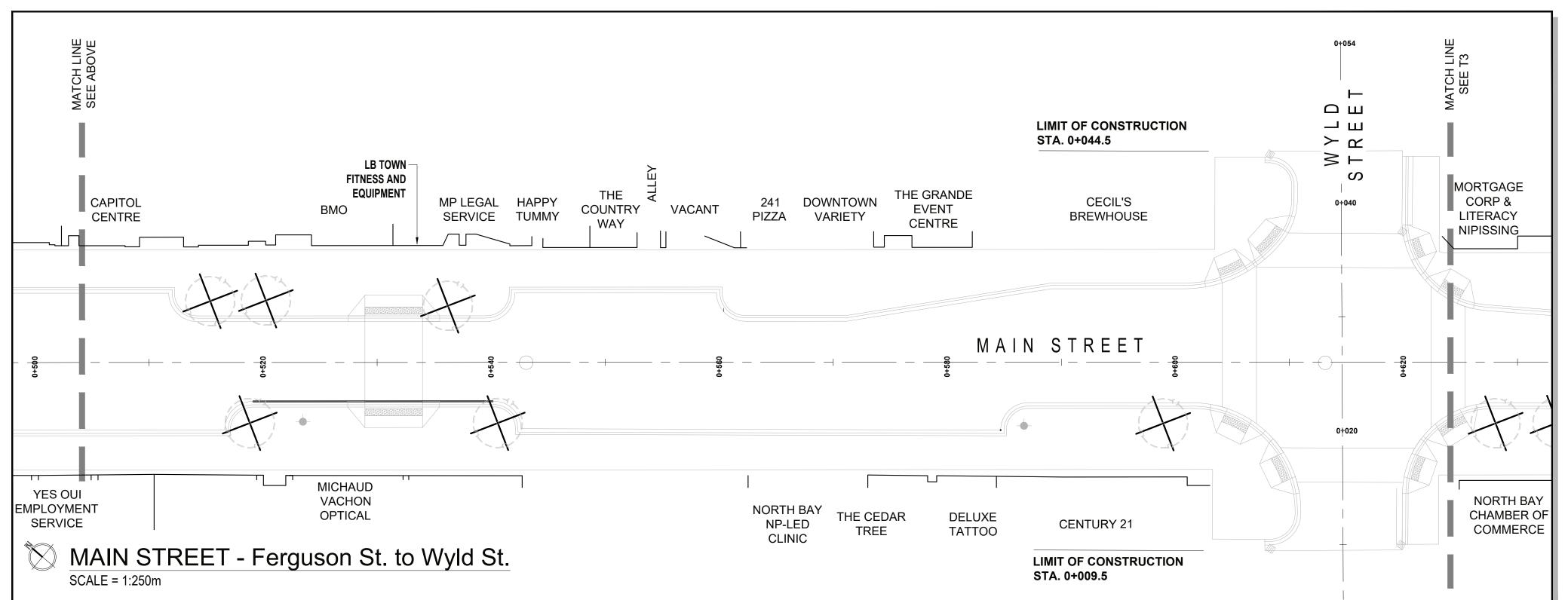
MAIN STREET ROAD RECONSTRUCTION

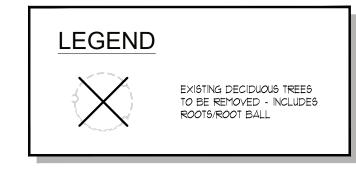
TREE REMOVAL & PRESERVATION PLAN 1

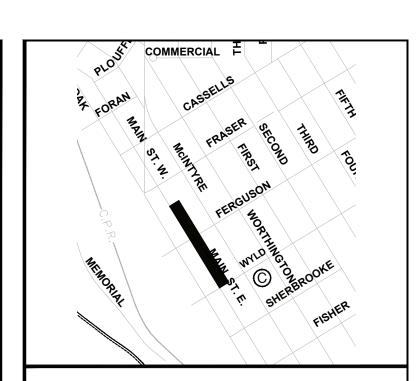
CASSELLS TO FERGUSON

	DATE: <b>JAN. 2023</b>	SCALE: AS NOTED	DRAWING No.
	DRAWN:	CHECKED BY:	I I
	RKLA Inc.	RHK	SHEET SET No.
	PROJECT No.		28 of 61
	21–101Ln		













ARCHITECT AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE LANDSCAPE ARCHITECTS WRITTEN PERMISSION.

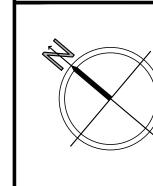
THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION OR TENDER PURPOSES UNLESS SIGNED AND DATED BY RONALD H. KOUDYS, OALA, CSLA, LANDSCAPE ARCHITECT, LONDON, ONTARIO (519) 667-3322.

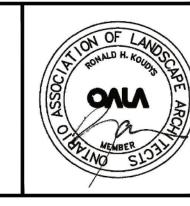
Ronald H. Koudys, O.A.L.A. C.S.L.A. DATE		
MAR. 31, 2 <i>0</i> 23	ISSUED FOR CONSTRUCTION	6
JAN. 12, 2 <i>0</i> 23	166UED FOR TENDER	5
JUNE 17, 2022	ISSUED FOR 100% SUBMISSION	4
MAR. 18, 2 <i>0</i> 22	90% DESIGN SUBMISSION	3.
DEC. 2, 2Ø21	60% DESIGN SUBMISSION	2.
JULY 30, 2021	30% DESIGN SUBMISSION	1
DATE	DESCRIPTION	No

PLOTTING INFORMATION:

PLOTTED DATE = JANUARY 12, 2023

PLOTTED SCALE = 1:1





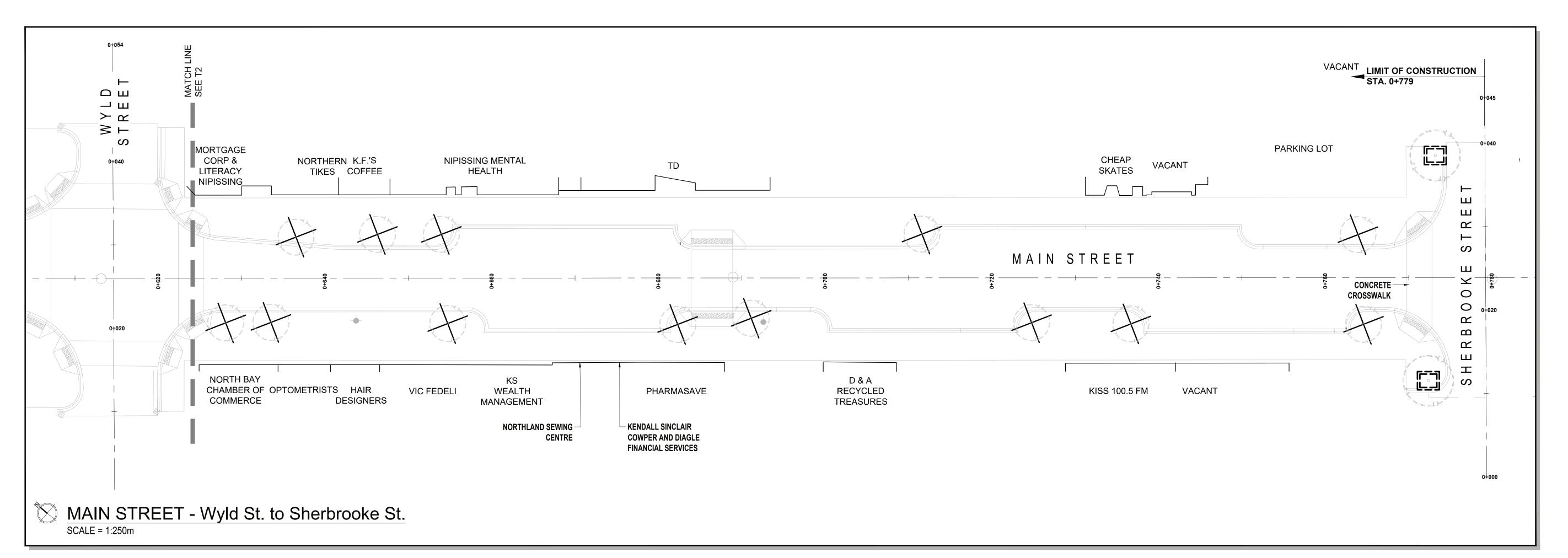
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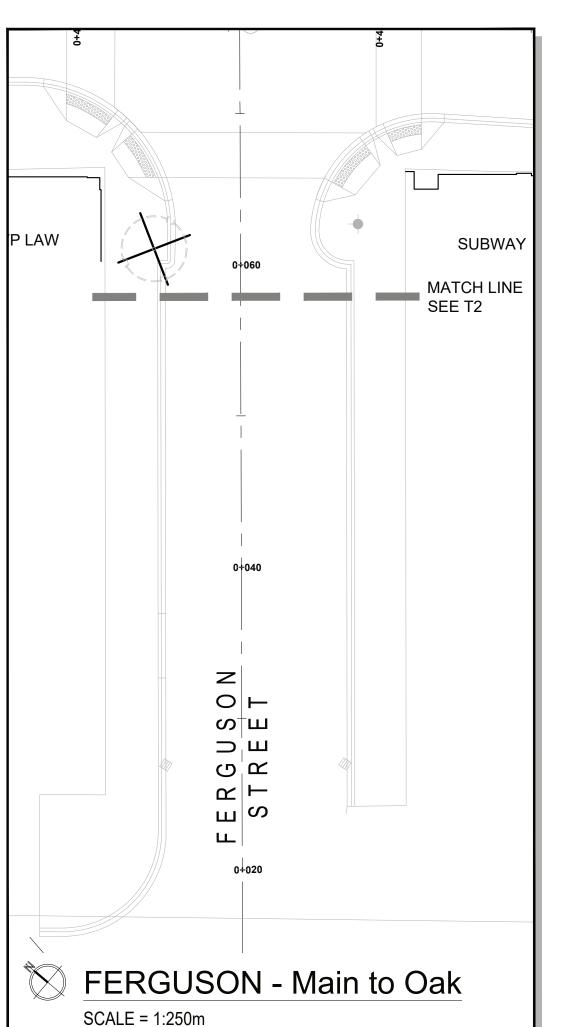
MAIN STREET ROAD RECONSTRUCTION

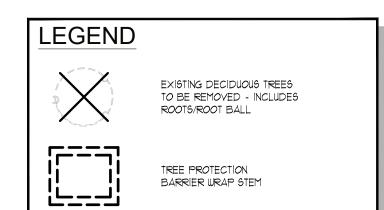
TREE REMOVAL & PRESERVATION PLAN 2

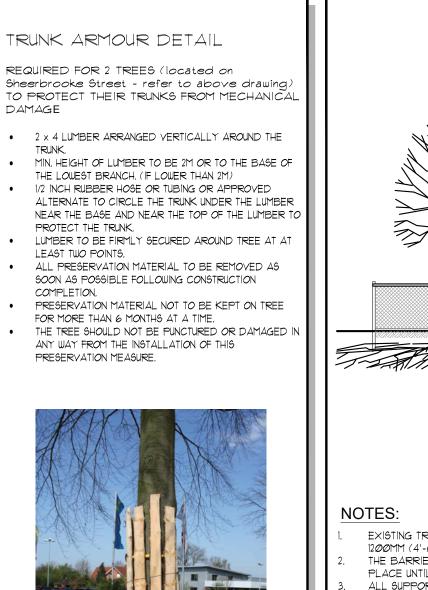
FERGUSON TO WYLD

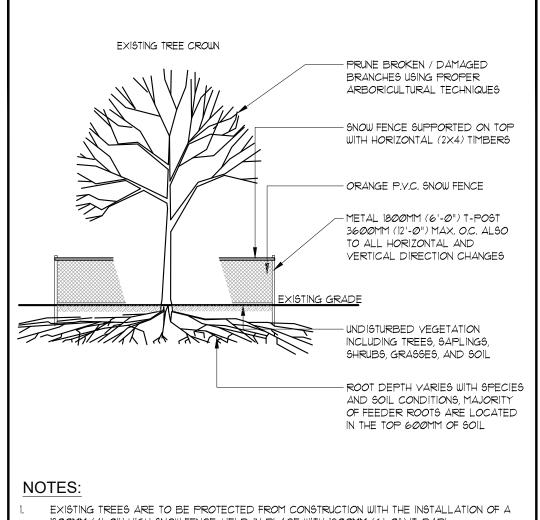
DATE: <b>JAN. 20</b> 23	SCALE: AS NOTED	DRAWING No.	
DRAWN: RKLA Inc.	CHECKED BY:	SHEET SET No.	
PROJECT No.	101Ln	29 of	61











- 1200MM (4'-0") HIGH SNOW FENCE, HELD IN PLACE WITH 1800MM (6'-0") 'T-BAR'.
- THE BARRIER IS TO BE INSTALLED PRIOR TO ANY CONSTRUCTION AND MUST REMAIN IN PLACE UNTIL ALL CONSTRUCTION IS COMPLETED.
- ALL SUPPORTS AND BRACING SHOULD BE INSIDE THE TREE PROTECTION ZONE. ALL SUCH SUPPORTS SHOULD MINIMIZE DAMAGING ROOTS IN THE TREE PROTECTION ZONE. NO CONSTRUCTION ACTIVITY, GRADE CHANGES, SURFACE TREATMENT, OR EXCAVATION OF ANY
- KIND IS PERMITTED WITHIN THE TREE PROTECTION ZONE. NO MOVEMENT OF EQUIPMENT, STORAGE OF BUILDING SUPPLIES, CLEANING OR EQUIPMENT,
- OR DUMPING OF SOLVENTS, GASOLINE, ETC., MAY OCCUR WITHIN THIS FENCE LINE. WHERE HIGH QUALITY SPECIMENS OCCUR ADJACENT TO AREAS SUBJECTED TO INTENSIVE CONSTRUCTION ACTIVITY, WOODEN CRIBBING SHOULD BE INSTALLED TO PROTECT TRUNKS FROM DAMAGE IN THE EVENT THAT HEAVY EQUIPMENT BREAKS DOWN THE SNOW FENCING.
- FENCE TO BE INSPECTED BY ENVIRONMENTAL CONSULTANT ON A REGULAR BASIS AND BE MAINTAINED BY THE SUBDIVIDER / BUILDER.

### TEMP. TREE PROTECTION BARRIER - N.T.S.

### TREE PRESERVATION NOTES

### PRE-CONSTRUCTION RECOMMENDATIONS

- A. PRIOR TO ANY CONSTRUCTION ACTIVITY, TREE PRESERVATION WRAP IS TO BE INSTALLED AS PER THE ATTACHED TREE PRESERVATION
- B. ANY LIMBS LOWER THAN 16' OVERHANGING THE STREET THAT MAY BE DAMAGED DURING CONSTRUCTION SHOULD BE REVIEWED AND CONSIDERED FOR REMOVAL PRIOR TO CONSTRUCTION.
- C. FINAL SITE GRADING PLANS SHOULD ENSURE THAT THE EXISTING SOIL MOISTURE CONDITIONS ARE MAINTAINED

### RECOMMENDATIONS RELATED TO THE CONSTRUCTION PROCESS

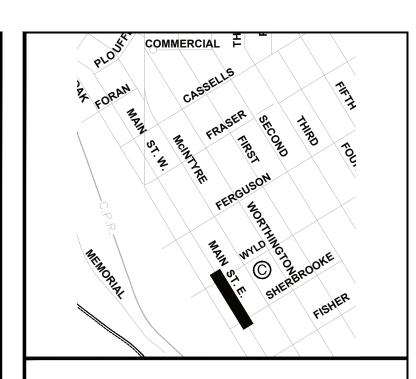
- D. TREE PRESERVATION WRAP IS TO BE MAINTAINED IN GOOD CONDITION AND EFFECTIVE FOR THE DURATION OF CONSTRUCTION UNTIL ALL CONSTRUCTION ACTIVITY IS COMPLETE OR AS PER THE PROJECT ARBORIST OR LANDSCAPE ARCHITECT.
- E. REMOVAL OF EXISTING PAVERS WITHIN A 4m RADIUS OF THE TREES TO BE PRESERVED IS TO BE DONE BY HAND AND WITH CAUTION TO AVOID DAMAGING TREE ROOTS.
- F. EXISTING AGGREGATE BASE TO REMAIN IN PLACE WHERE AT ALL POSSIBLE. IF ADDITIONAL AGGREGATE IS REQUIRED TO PROVIDE
- ADEQUATE BASE FOR THE NEW CONCRETE PAYING, IT SHALL BE PLACED CAREFULLY AND BY HAND. G. IF ROOTS WILL BE SEVERED AND EXPOSED, DURATION OF EXPOSURE IS TO BE MINIMIZED TO PREVENT ROOT DESICCATION.
- H. DURING THE EXCAVATION PROCESS, ROOTS 25MM OR LARGER THAT ARE SEVERED AND EXPOSED SHOULD BE HAND PRUNED TO LEAVE A CLEAN-CUT SURFACE. TO BE UNDERTAKEN BY AN 16A CERTIFIED ARBORIST. EXPOSED SEVERED ROOTS THAT CANNOT BE COVERED ON THE SAME DAY AS THE CUTS ARE MADE ARE TO BE KEPT MOIST. EXPOSED ROOTS ARE TO BE KEPT MOIST BY COVERING THEM WITH WATER SOAKED BURLAP OR ANY OTHER MEANS AVAILABLE TO PREVENT THEM FROM DRYING OUT. ADEQUATE MOISTURE LEVELS ARE TO BE MAINTAINED UNTIL SUCH TIME AS TOPSOIL HAS BEEN REPLACED SATISFACTORILY OR AS OTHERWISE DIRECTED BY THE CONTRACT ADMINISTRATOR.
- I. LIMIT ROOT EXPOSURE DURATION. KEEP EXISTING PAVERS AND AGGREGATE WITHIN A 4m RADIUS OF THE TREES TO BE PRESERVED IN PLACE AS LONG AS POSSIBLE, AND INSTALL NEW CONCRETE AS SOON AS POSSIBLE.
- J. AVOID IDLING HEAVY EQUIPMENT UNDER OR WITHIN CLOSE PROXIMITY TO TREES TO BE PRESERVED TO PREVENT CANOPY DAMAGE FROM EXPOSURE TO THE HEAT OF THE EXHAUST.
- K. BROKEN BRANCHES ON TREES WITHIN THE SUBJECT SITE TO BE PRESERVED SHOULD BE CLEANLY CUT AS SOON AS POSSIBLE AFTER THE DAMAGE HAS OCCURRED. TO BE UNDERTAKEN BY AN ISA CERTIFIED ARBORIST.
- L. IT IS THE RESPONSIBILITY OF THE SITE SUPERVISOR TO PROMPTLY CONTACT THE PROJECT ARBORIST IF ANY CONCERNS OR QUESTIONS ARISE REGARDING TREES.

### POST-CONSTRUCTION RECOMMENDATIONS

- A. AFTER ALL WORK IS COMPLETED, TREE PRESERVATION FENCES AND ANY OTHER IMPACT MITIGATION PARAPHERNALIA MUST BE REMOVED UNDER THE DIRECTION OF THE PROJECT ARBORIST OR LANDSCAPE ARCHITECT.
- B. A FINAL REVIEW MUST BE UNDERTAKEN BY THE PROJECT ARBORIST OR LANDSCAPE ARCHITECT TO ENSURE THAT ALL MITIGATION MEASURES AS DESCRIBED ABOVE HAVE BEEN MET.
- C. POST CONSTRUCTION MONITORING OF TREES MAY BE REQUIRED. MONITORING SCHEDULE TO BE DETERMINED BY CONTRACT ADMINISTRATOR IN CONSULTATION WITH PROJECT ARBORIST.

### TREE REMOVALS

IN ACCORDANCE WITH THE MIGRATORY BIRDS CONVENTION ACT, 1994, ALL REMOVALS MUST TAKE PLACE BETWEEN SEPTEMBER IST AND MARCH 31ST TO AVOID DISTURBING NESTING MIGRATORY BIRDS, IF TREE REMOVAL OCCURS BETWEEN APRIL 1ST AND AUGUST 31ST, A BIOLOGIST IS REQUIRED TO COMPLETE A SEARCH FOR NESTS. ONCE CLEARED, THE CONTRACTOR HAS 48 HOURS TO REMOVE. IF REMOVAL DOES NOT OCCUR WITHIN 48 HOURS, ANOTHER SEARCH WILL BE REQUIRED.



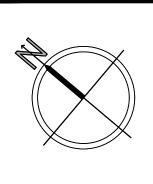


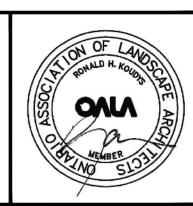


ARCHITECT AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE LANDSCAPE ARCHITECTS WRITTEN PERMISSION. THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION OR TENDER PURPOSES UNLESS SIGNED AND DATED BY RONALD H. KOUDYS, OALA, CSLA, LANDSCAPE ARCHITECT, LONDON, ONTARIO (519) 667-3322.

Ronald H. Koudys, O.A.L.A. C.S.L.A. DATE MAR. 31, 2023 ISSUED FOR CONSTRUCTION JAN. 12, 2**0**23 ISSUED FOR TENDER JUNE 17, 2022 ISSUED FOR 100% SUBMISSION MAR. 18, 2022 90% DESIGN SUBMISSION DEC. 2, 2021 60% DESIGN SUBMISSION JULY 30, 2021 30% DESIGN SUBMISSION DATE DESCRIPTION

PLOTTING INFORMATION: PLOTTED DATE = JANUARY 12, 2023 PLOTTED SCALE = 1:1

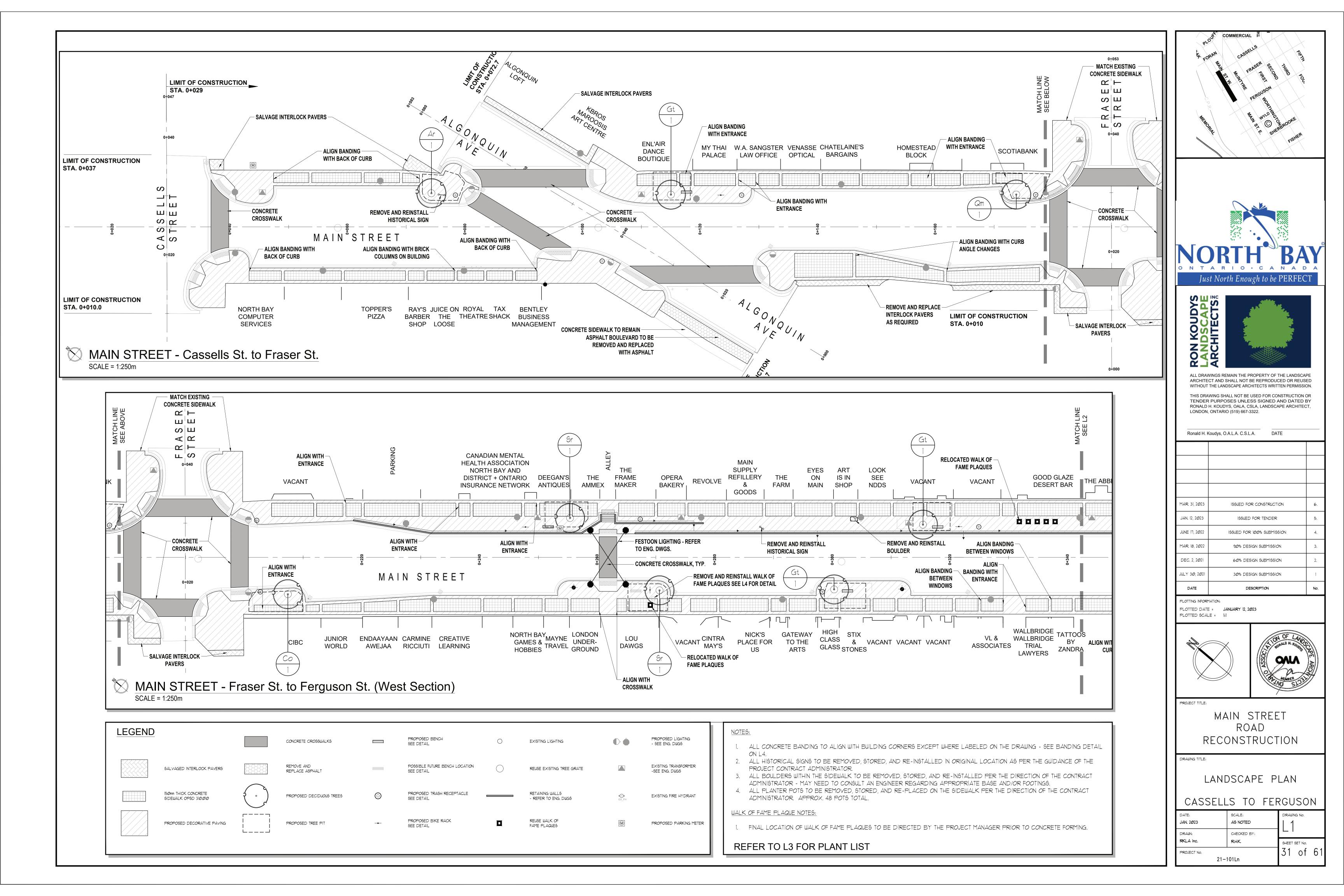


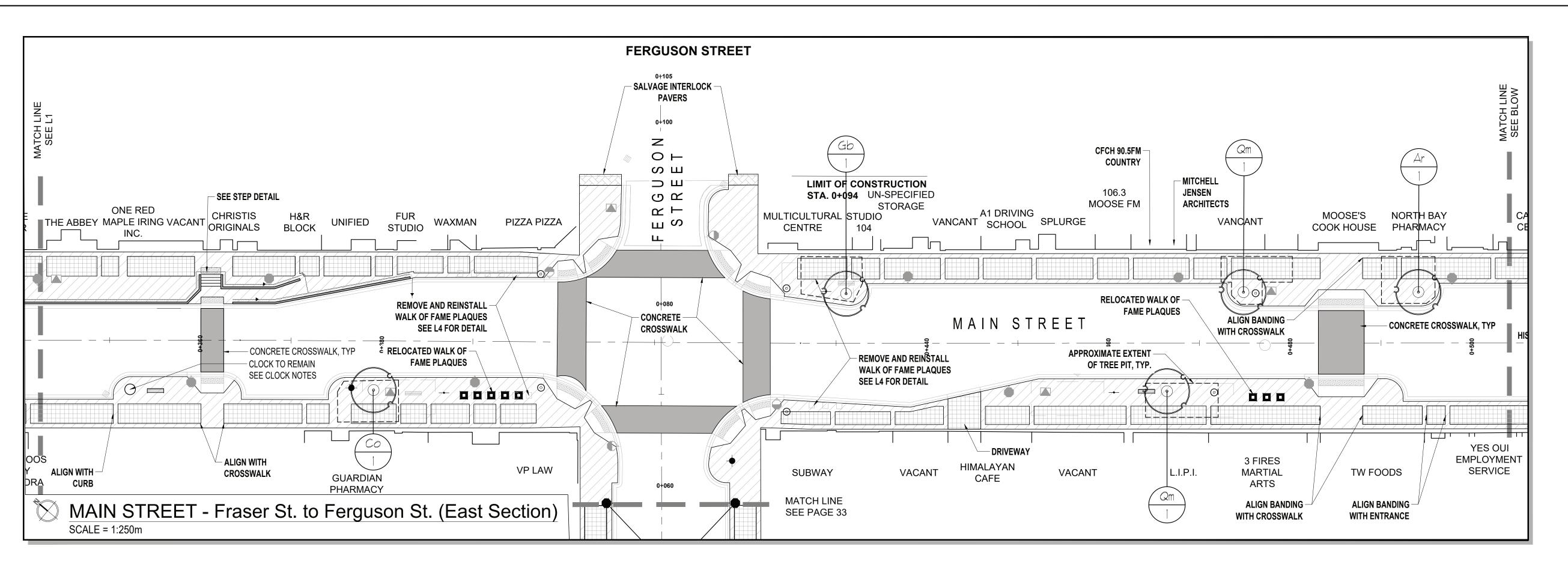


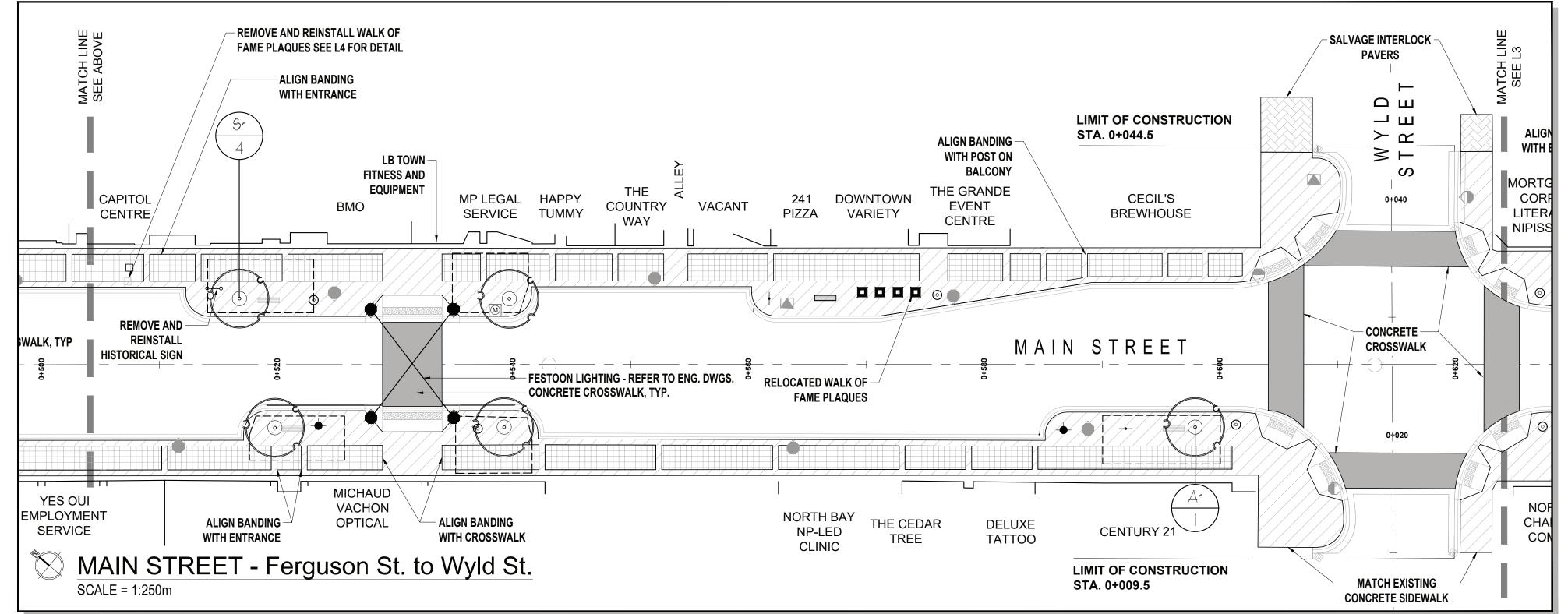
MAIN STREET ROAD RECONSTRUCTION

TREE REMOVAL & PRESERVATION PLAN 3 WYLD TO SHERBROOKE & FERGUSON

DRAWING No. JAN. 2*0*23 AS NOTED DRAWN: CHECKED BY: RKLA Inc. SHEET SET No. 30 of 6 PROJECT No. 21-101Ln

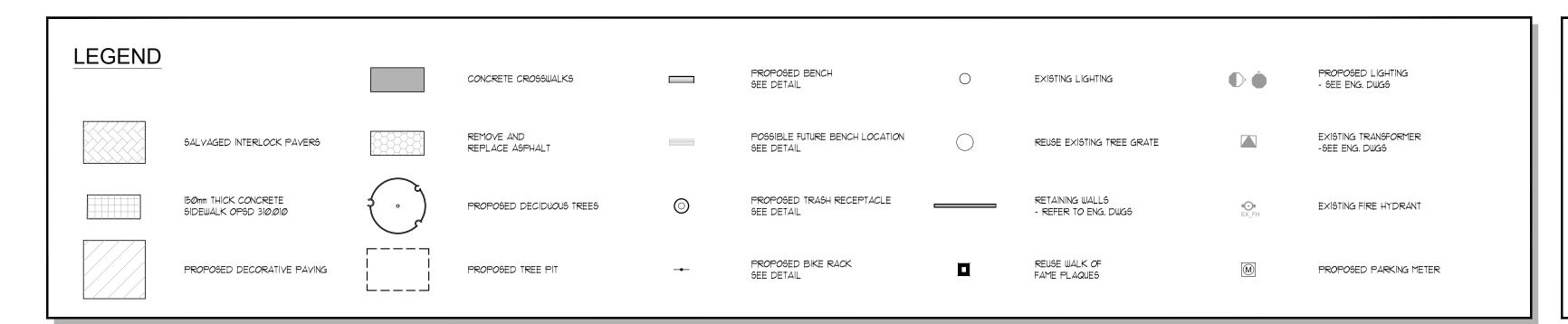






### CLOCK NOTES:

- 1. BRICKS AROUND CLOCK TO BE REMOVED.
- 2. FOUNDATION TO BE CEMENT PARGED.



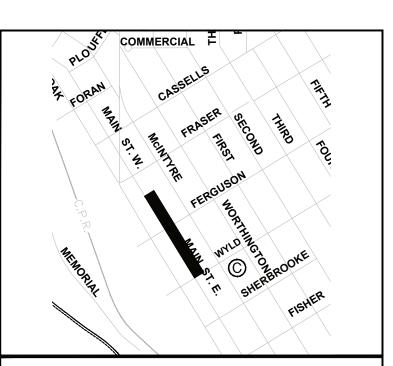
### NOTES:

- 1. ALL CONCRETE BANDING TO ALIGN WITH BUILDING CORNERS EXCEPT WHERE LABELED ON THE DRAWING SEE BANDING DETAIL ON L4.
- . ALL HISTORICAL SIGNS TO BE REMOVED, STORED, AND RE-INSTALLED IN ORIGINAL LOCATION AS PER THE GUIDANCE OF THE
- PROJECT CONTRACT ADMINISTRATOR.
- 3. ALL BOULDERS WITHIN THE SIDEWALK TO BE REMOVED, STORED, AND RE-INSTALLED PER THE DIRECTION OF THE CONTRACT ADMINISTRATOR MAY NEED TO CONSULT AN ENGINEER REGARDING APPROPRIATE BASE AND/OR FOOTINGS.
  4. ALL PLANTER POTS TO BE REMOVED, STORED, AND RE-PLACED ON THE SIDEWALK PER THE DIRECTION OF THE CONTRACT
- ADMINISTRATOR. APPROX. 48 POTS TOTAL.

### WALK OF FAME PLAQUE NOTES:

1. FINAL LOCATION OF WALK OF FAME PLAQUES TO BE DIRECTED BY THE PROJECT MANAGER PRIOR TO CONCRETE FORMING.

### REFER TO 13 FOR PLANT LIST





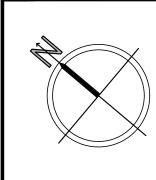
SCAPE SCAPE TECTS

ALL DRAWINGS REMAIN THE PROPERTY OF THE LANDSCAPE ARCHITECT AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE LANDSCAPE ARCHITECTS WRITTEN PERMISSION.

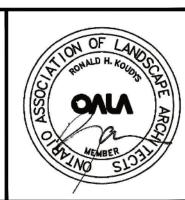
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DESCRIPTION

PLOTTING INFORMATION:
PLOTTED DATE = JANUARY 12, 2023



PLOTTED SCALE = 1:1



PROJECT TITLE:

DATE

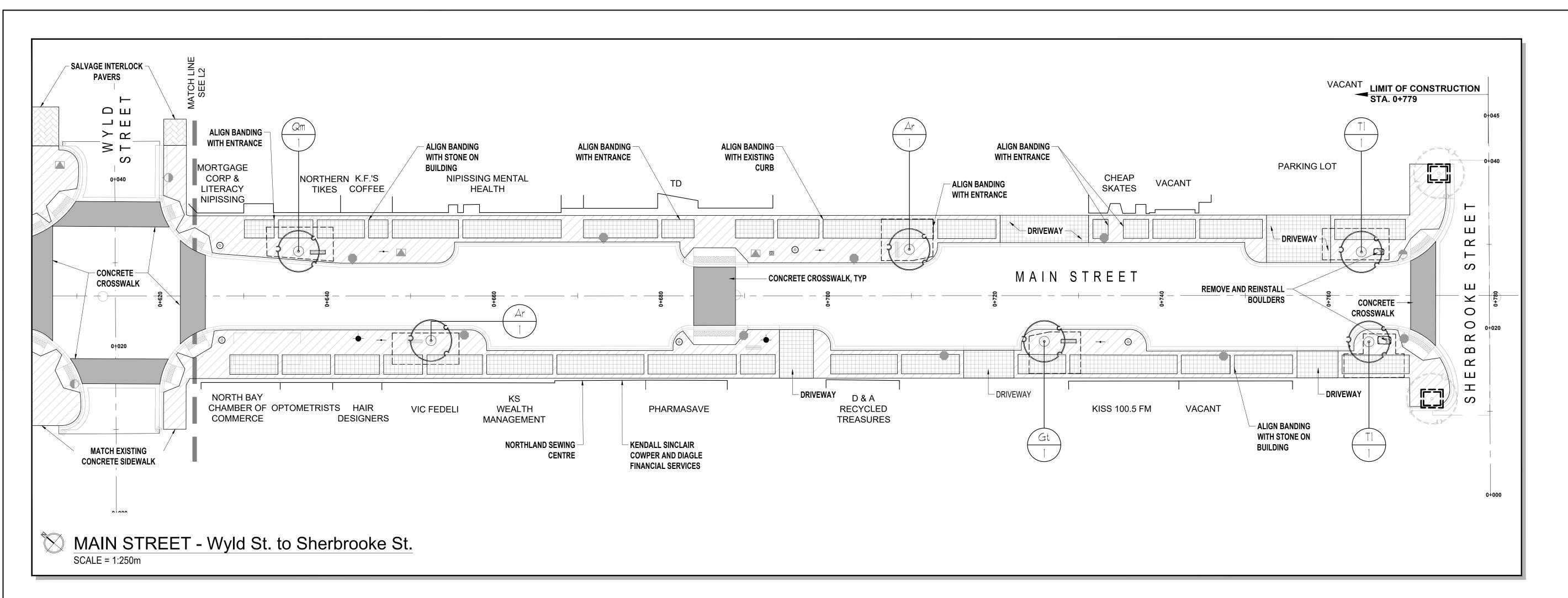
MAIN STREET ROAD RECONSTRUCTION

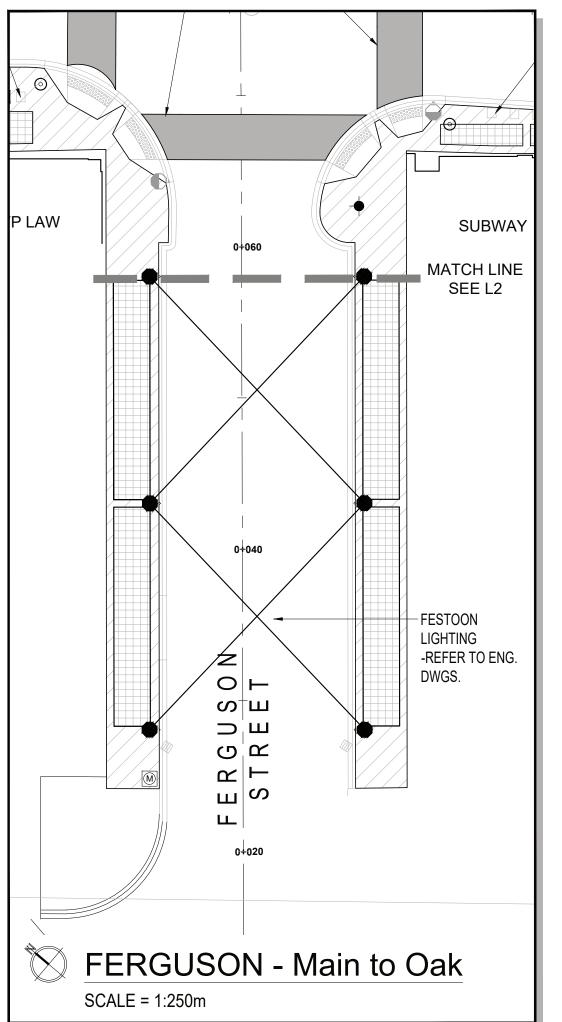
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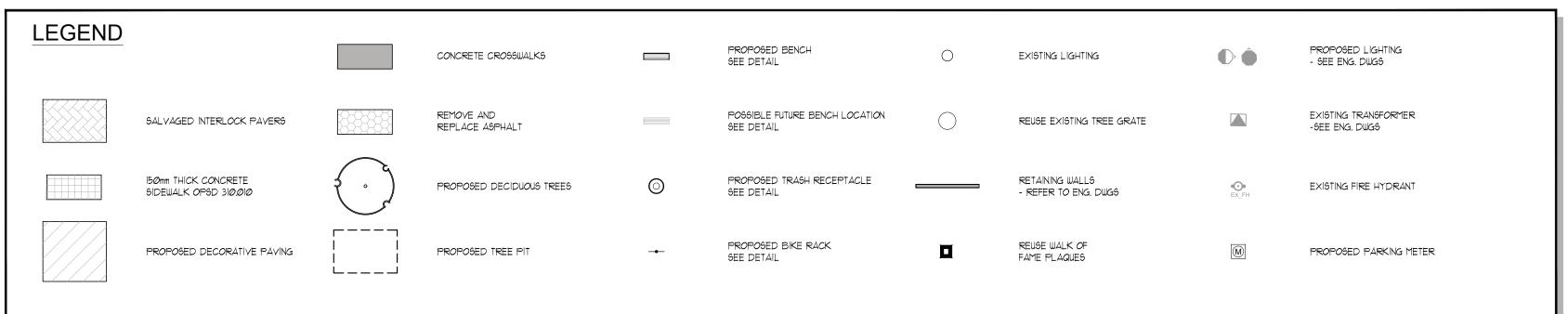
LANDSCAPE PLAN

FERGUSON TO WYLD

DATE: <b>JAN. 2023</b>	SCALE: AS NOTED	DRAWING No.	
DRAWN: RKLA Inc.	CHECKED BY:	SHEET SET No.	
PROJECT No. 21-101Ln		32 of	6







- 1. ALL CONCRETE BANDING TO ALIGN WITH BUILDING CORNERS EXCEPT WHERE LABELED ON THE DRAWING SEE BANDING DETAIL ON L4.
- 2. ALL HISTORICAL SIGNS TO BE REMOVED, STORED, AND RE-INSTALLED IN ORIGINAL LOCATION AS PER THE GUIDANCE OF THE PROJECT CONTRACT ADMINISTRATOR.
- 3. ALL BOULDERS WITHIN THE SIDEWALK TO BE REMOVED, STORED, AND RE-INSTALLED PER THE DIRECTION OF THE CONTRACT ADMINISTRATOR - MAY NEED TO CONSULT AN ENGINEER REGARDING APPROPRIATE BASE AND/OR
- 4. ALL PLANTER POTS TO BE REMOVED, STORED, AND RE-PLACED ON THE SIDEWALK PER THE DIRECTION OF THE CONTRACT ADMINISTRATOR. APPROX. 48 POTS TOTAL.

### WALK OF FAME PLAQUE NOTES:

I. FINAL LOCATION OF WALK OF FAME PLAQUES TO BE DIRECTED BY THE PROJECT MANAGER PRIOR TO CONCRETE

### PLANT MATERIAL

KEY COMMON NAME

Ar RED MAPLE Co HACKBERRY TREE Gb MAIDEN HAIR TREE SHADEMASTER LOCUST Qm BURR OAK

Sr IVORY SILK LILAC

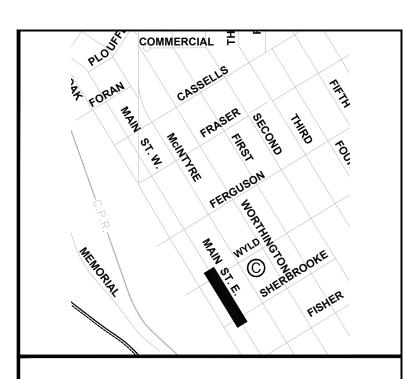
TI GLENLEVEN LINDEN

Acer rubrum 'Sunset' Celtis occidentalis Ginkgo biloba Gleditsia triacanthos 'Shademaster' Quercus macrocarpa Syringa reticulata 'Ivory Silk'

BOTANICAL NAME

60mmcal 6⊘mmcal 60mmcal 60mmcal 60mmcal 6 60mmcal WB Tilia cordata 'Glenleven' 2 60mmcal WB

QTY SIZE COND



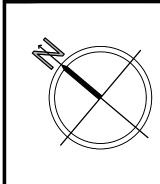


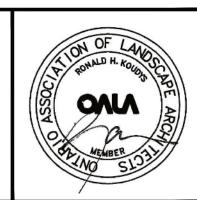


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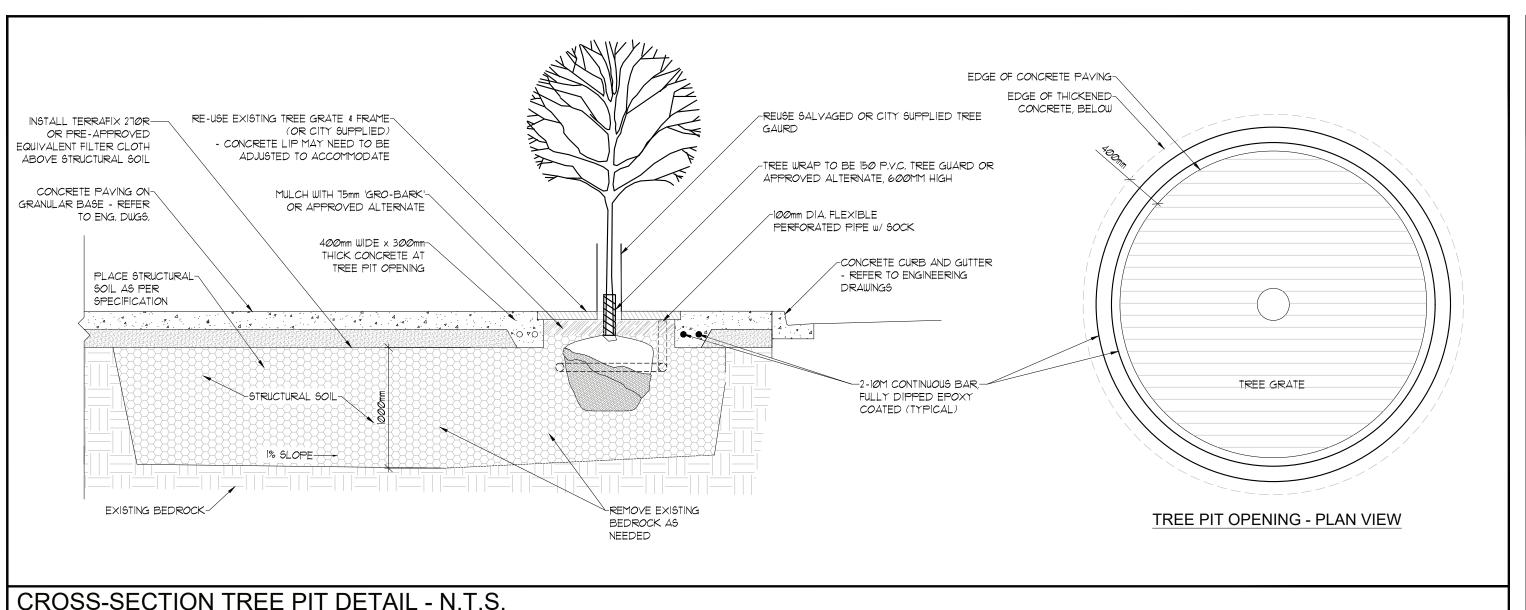


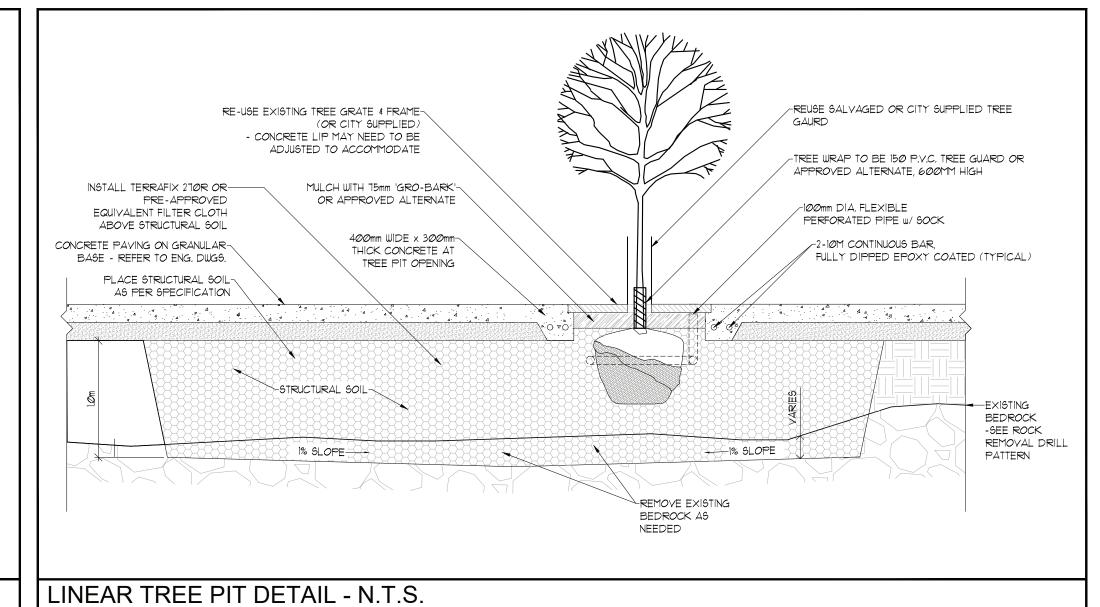
MAIN STREET ROAD RECONSTRUCTION

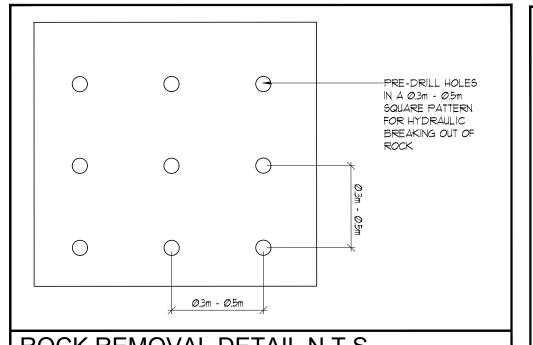
DRAWING TITLE:

LANDSCAPE PLAN WYLD TO SHERBROOKE & FERGUSON

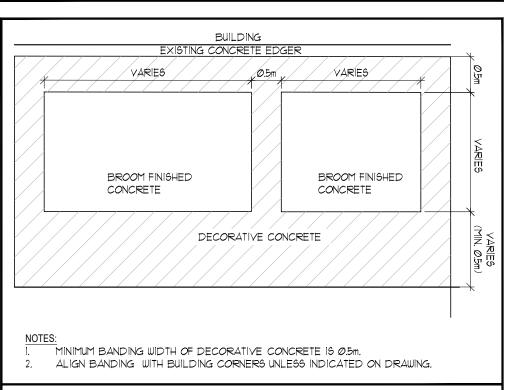
		DATE:	SCALE:	DRAWING No.	
		JAN. 2 <i>0</i> 23	AS NOTED		
		DRAWN:	CHECKED BY:		
		RKLA Inc.	RHK	SHEET SET No.	
PROJECT No.			33 of	6	
		21-101Ln			







### ROCK REMOVAL DETAIL N.T.S



### DECORATIVE CONCRETE DETAIL - N.T.S.

BROOM FINISHED

CONCRETE

DECORATIVE CONCRETE

CURB

ROAD

LEXISTING PLAQUES TO BE

RE-INSTALLED INTO NEW

DECORATIVE CONCRETE

WALK OF FAME PLAQUE DETAIL

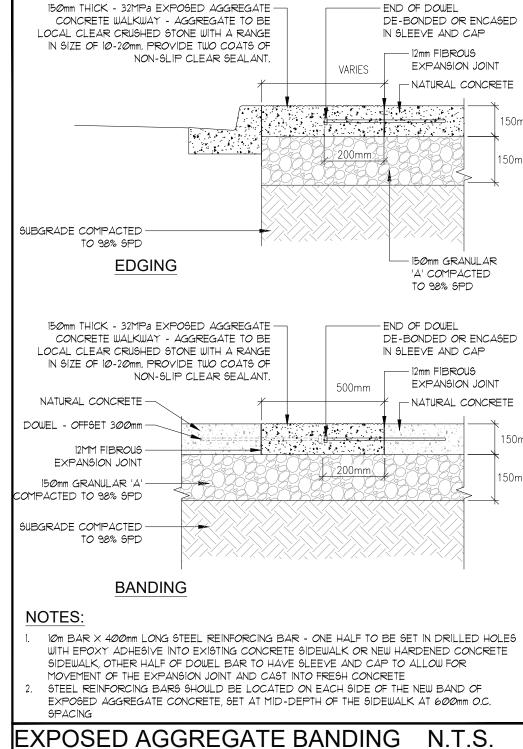
(3'-Ø") APART

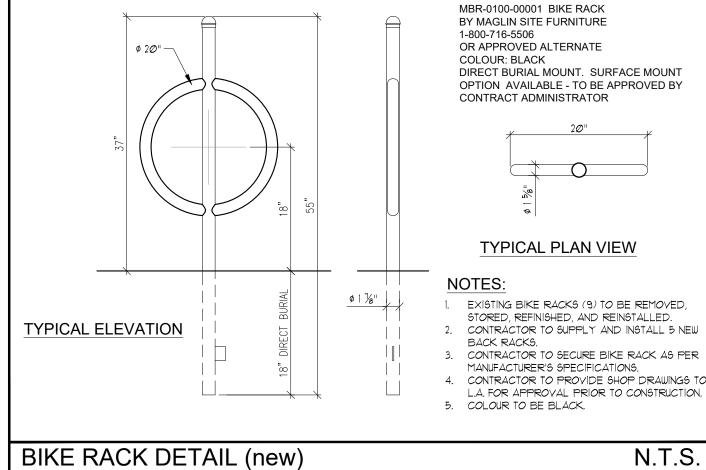
MORTAR JOINT -

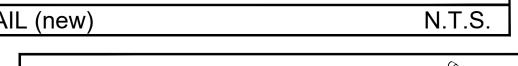
CONCRETE

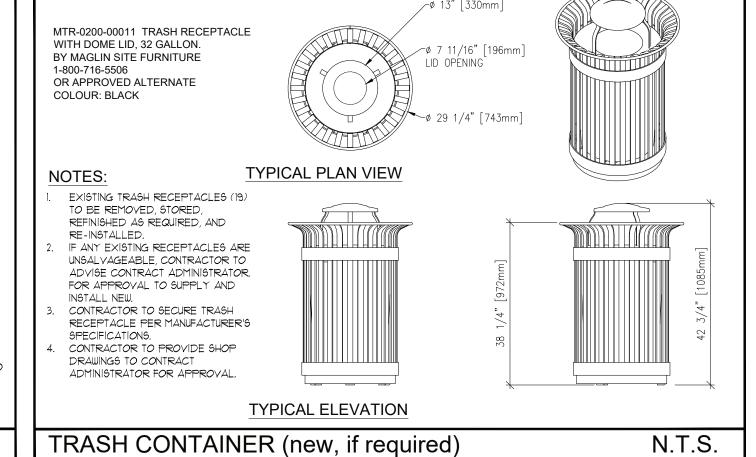
EXISTING OR NEW WALK OF

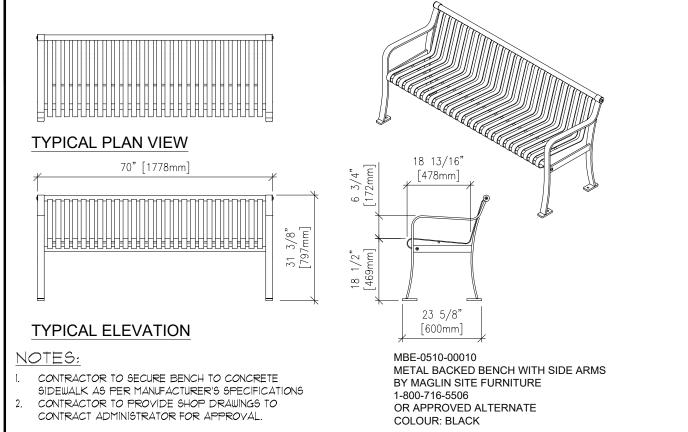
FAME PLAQUES SET FLUSH IN











BENCH DETAIL N.T.S. BASE INFORMATION SUPPLIED BY RV ANDERSON ASSOCIATES LIMITED. ENGINEERING INFORMATION SUPPLIED BY RV ANDERSON ASSOCIATES LIMITED.

**GENERAL PLANTING SPECIFICATIONS:** 

- CONTRACTOR TO MAKE THEMSELVES FAMILIAR WITH ALL RELATED SPECIFICATIONS. CONTRACTORS ARE RESPONSIBLE FOR REVIEW OF ALL SPECIFICATIONS AND RELATED DRAWINGS WITH SELECTED SUB-CONTRACTORS AS THEY PERTAIN TO WORK AS OUTLINED ON LANDSCAPE ARCHITECTURAL WORKING DRAWINGS AND SPECIFICATIONS. 5. REPORT ALL DISCREPANCIES TO THE LANDSCAPE ARCHITECT DURING TENDERING PROCESS, ERRORS AND/OR OMISSIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 6. CONTRACTOR SHALL MAINTAIN ALL LANDSCAPED AREAS UNTIL OWNER ACCEPTANCE OF PROJECT. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT IN WRITING ON COMPLETION OF PROJECT FOR A SITE WORK COMPLETION CERTIFICATE AS WELL AS THE COMMENCEMENT OF THE ACCEPTANCE OF PROJECT. 1. ALL WORKMANSHIP TO BE WARRANTIED FOR ONE YEAR UNLESS OTHERWISE STATED, WARRANTY PERIOD WILL BEGIN ON FINAL ACCEPTANCE
- 8. ALL WORKMANSHIP TO COMPLY WITH THE CANADIAN LANDSCAPE STANDARDS. 9. ALL NURSERY STOCK TO BE #1 NURSERY GROWN AND MUST COMPLY WITH THE CANADIAN NURSERY LANDSCAPE ASSOCIATION'S "CANADIAN NURSERY STOCK STANDARD", LATEST EDITION.
- 10. ALL LANDSCAPING IS TO BE INSTALLED PRIOR TO THE END OF THE FIRST GROWING SEASON FOLLOWING THE OCCUPANCY OF THE SITE DEVELOPMENT UNLESS OTHERWISE STATED. II. CONTRACTOR 16 RESPONSIBLE FOR ALL UNDERGROUND UTILITIES AND MUST SUPPLY THE LANDSCAPE ARCHITECT WITH COPIES OF LOCATE CERTIFICATES PRIOR TO COMMENCEMENT OF WORK.

- CONTRACTOR TO ENSURE POSITIVE DRAINAGE IN ALL AREAS. ALL GRADING TO BE IN ACCORDANCE WITH ENGINEERS DRAWINGS.
- SOIL SHALL BE SCARIFIED FREE OF ALL STONES, ROOTS, BRANCHES LARGER THAN 1" (25MM) AND COMPACTED TO 85% S.P.D. 4. ALL SUBSOIL TO BE SCARIFIED TO A DEPTH OF 6" (150 MM) PRIOR TO THE INSTALLATION OF TOPSOIL TO ENSURE NO HARDPAN CONDITIONS. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF TOPSOIL TO APPROVE SUBBASE.
- 6. DIRECT ALL RAINLEADERS AND SUMP LEADERS AWAY FROM PLANTING BEDS AND TO THE DESIGNATED SWALES. NOTIFY LANDSCAPE ARCHITECT IN WRITING OF ANY SUBSTANTIAL WET CONDITIONS.

### TOPSOIL - REFER TO SPECIAL PROVISIONS

WILL BE AT THE COST OF THE CONTRACTOR.

- MULCH REFER ALSO TO SPECIAL PROVISIONS ALL TREEPITS, SHRUB PITS AND PLANTING AREAS ARE TO BE MULCHED UNLESS OTHERWISE NOTED.
- CONTRACTOR TO INSTALL 3" (15MM) OF 'GRO-BARK' MEDIUM MULCH IN ALL AREAS. 3. ALTERNATIVES MAY BE ACCEPTED - CONTRACTOR TO PROVIDE 3 SAMPLES FOR WRITTEN APPROVAL TO THE LANDSCAPE ARCHITECT.

### PLANT MATERIALS - REFER ALSO TO SPECIAL PROVISIONS CONTRACTOR TO VERIFY ALL PLANT MATERIAL ON DRAWING(S) AND PLANT MATERIAL LIST(S), REPORT ALL DISCREPANCIES AT TENDERING

- SUBSTITUTIONS WILL NOT BE ACCEPTED WITHOUT WRITTEN CONFIRMATION BY THE LANDSCAPE ARCHITECT. . PLANTINGS MAY BE ADJUSTED TO SUIT UTILITIES STRUCTURES AND AESTHETIC CONCERNS, ADJUSTMENTS ARE TO BE MADE UNDER THE DIRECTION OF THE LANDSCAPE ARCHITECT. ADJUSTMENTS TO PLANTING WITHOUT CONSENT OF LANDSCAPE ARCHITECT AND OR PROJECT MANAGER MAY NOT MEET INTENT OF DESIGN AND OR MUNICIPAL APPROVALS. PLANT MATERIAL THAT HAS TO BE RELOCATED AS A RESULT
- 4. LANDSCAPE ARCHITECT TO INSPECT ALL PLANT MATERIAL ON SITE OR AT ITS SOURCE PRIOR TO INSTALLATION. CONTRACTOR IS TO GIVE LANDSCAPE ARCHITECT 48 (HRS) NOTICE FOR INSPECTION.
- 5. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT IN WRITING IF ADVERSE WEATHER MAY IMPACT THE HEALTH OF THE PLANT MATERIALS AT TIME OF PLANTING. IE. TEMPERATURE, PRECIPITATION. 6. ALL TREE PITS SHALL BE AT LEAST 2 FT. (600MM) WIDER THAN BALL OF THE TREE TO BE PLANTED AND SHALL BE DEEP ENOUGH SO THAT THE TOP OF BALL IS AT THE SAME LEVEL AS SURROUNDING GRADE. A MINIMUM OF 6" (150MM) OF BACKFILL SHALL BE PLACED UNDER BALL.
- TREE PITS ARE NOT TO BE LEFT OPEN OVER NIGHT. ALL BURLAP SHALL BE CUT AND BURIED BELOW SURFACE DURING PLANTING. 8. DIRECT ALL RAINLEADERS AND SUMP LEADERS AWAY FROM PLANTING BEDS AND TO DESIGNATED DRAINAGE SWALES.

### 9. DO NOT INSTALL PLANT MATERIAL IN DRAINAGE SWALES.

LAID SHOULD BE KEPT MOIST FOR 4 TO 5 WEEKS OR UNTIL IT HAS FIRMLY ROOTED INTO THE EXISTING SOIL.

- . DURING THE WARRANTY PERIOD, BETWEEN MAY 15 AND SEPTEMBER 15 OF EACH YEAR, WATERING OF ALL PLANTS SHALL BE CARRIED OUT NO LESS THAN 6 TIMES PER YEAR, IN ACCORDANCE WITH THE WATERING SCHEDULE TO BE DETERMINED BY THE OWNER, UNLESS OTHERWISE
- STATED ON THE DRAWINGS, CRITICAL WATERING MONTHS ARE JUNE, JULY & AUGUST, 2. IF NO AUTOMATED IRRIGATION SYSTEM HAS BEEN PROVIDED FOR WATERING OPERATIONS, CONTRACTOR TO PROVIDE WATER TO THE SITE IF HOSE BIBS WITHIN THE BUILDING ENVELOPE ARE NOT AVAILABLE. 3. MANUAL WATERING SHOULD ENSURE DEEP WATERING OF TREES, SHRUBS, GROUND COVERS AND GRASSED AREAS. WATERING OF GRASSED AREAS TO COMMENCE ON A REGULAR BASIS AND CONTINUE WITH INTENSITY DEPENDING ON AMOUNT OF RAINFALL. NEW SOD THAT HAS BEEN
- 4. ALL CONIFEROUS TREES SHALL BE WATERED IN LATE FALL, JUST PRIOR TO FREEZE-UP. 5. WATER SHALL BE APPLIED SO THAT THE WASHING OF THE SOIL OR DISLODGING OF MULCH OR TREE GUARDS DOES NOT OCCUR. DAMAGE





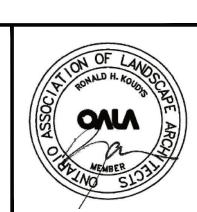
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RONALD H. KOUDYS, OALA, CSLA, LANDSCAPE ARCHITECT,

LONDON, ONTARIO (519) 667-3322.

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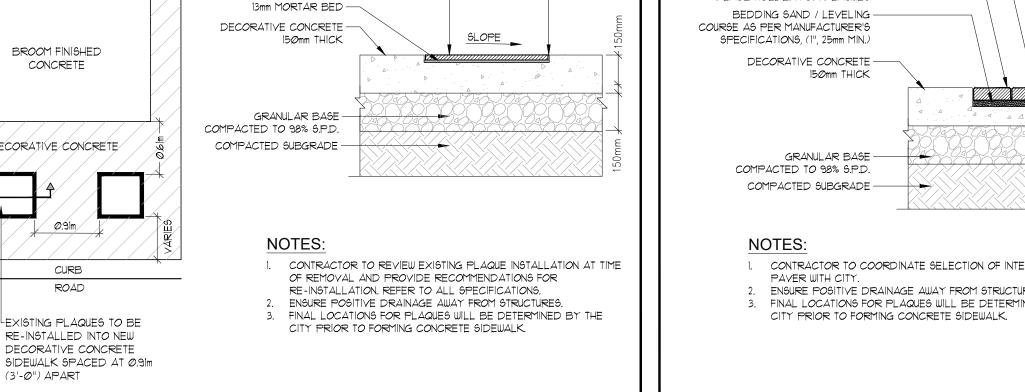
PROJECT TITLE:

### MAIN STREET ROAD RECONSTRUCTION

DRAWING TITLE:

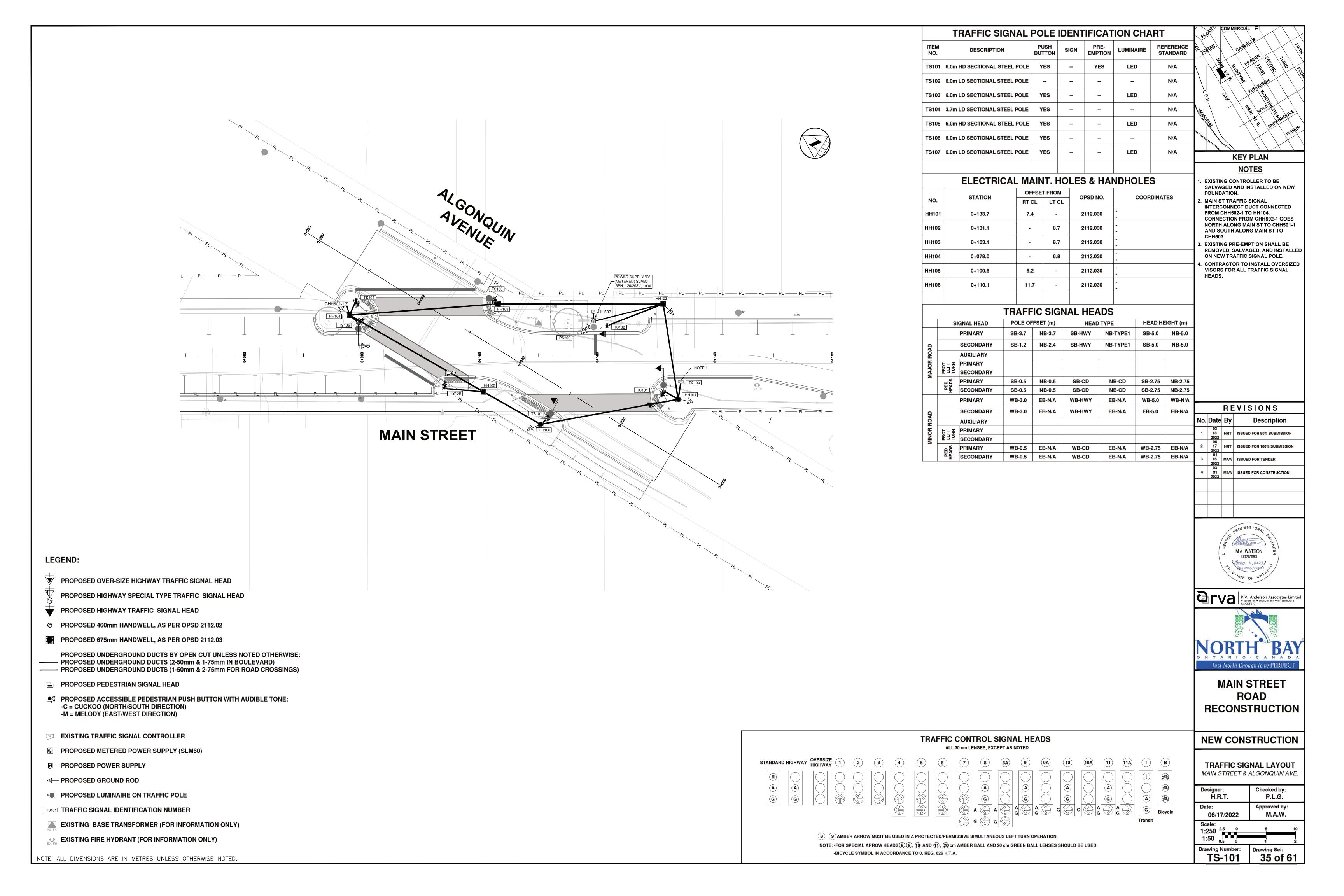
LANDSCAPE DETAILS

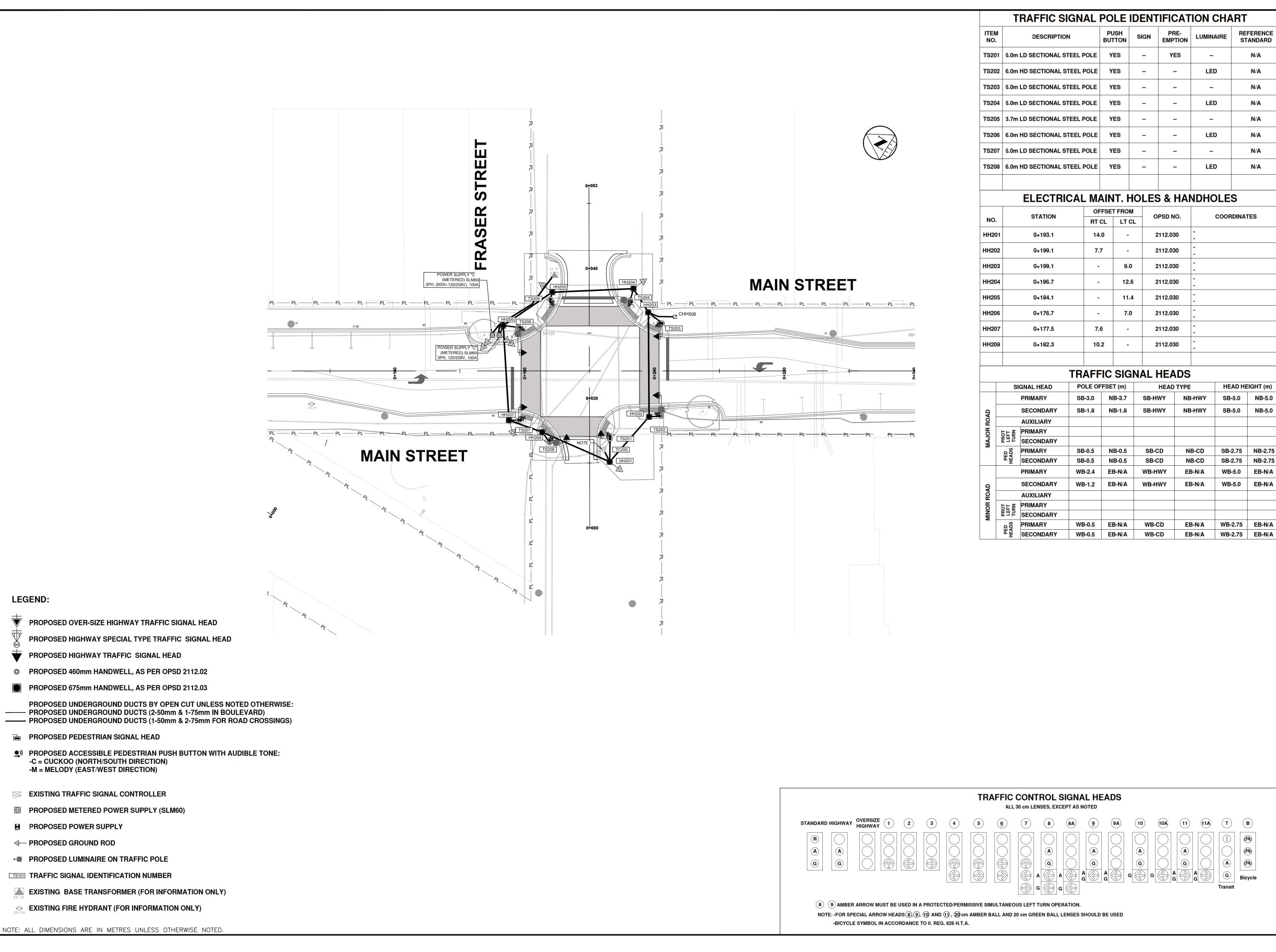
DATE:	SCALE:	DRAWING No.
JAN. 2 <i>0</i> 23	AS NOTED	1 1
DRAWN:	CHECKED BY:	
RKLA Inc.	RHK	SHEET SET No.
PROJECT No.		34 of 6
21-101Ln		



POLYMERIC JOINTING SAND -60mm GREY BRICK PAVERS, AS-PLACE HOLDER FOR PLAQUES BEDDING SAND / LEVELING -CONTRACTOR TO COORDINATE SELECTION OF INTERLOCKING ENSURE POSITIVE DRAINAGE AWAY FROM STRUCTURES. 3. FINAL LOCATIONS FOR PLAQUES WILL BE DETERMINED BY THE

PLAQUE PLACEHOLDER DETAIL N.T.S.





LEGEND:

**■** PROPOSED PEDESTRIAN SIGNAL HEAD

-C = CUCKOO (NORTH/SOUTH DIRECTION)

-M = MELODY (EAST/WEST DIRECTION)

**EXISTING TRAFFIC SIGNAL CONTROLLER** 

• PROPOSED LUMINAIRE ON TRAFFIC POLE

TS101 TRAFFIC SIGNAL IDENTIFICATION NUMBER

▶ PROPOSED POWER SUPPLY

**←** PROPOSED GROUND ROD

REFERENCE

STANDARD

N/A

N/A

N/A

N/A

N/A

**HEAD HEIGHT (m)** 

**KEY PLAN** 

**NOTES** 

INTERCONNECT DUCT CONNECTED

FROM CHH506 TO HH203. CONNECTION

REMOVED, SALVAGED, AND INSTALLED

FROM CHH506 GOES NORTH ALONG MAIN ST TO CHH505 AND SOUTH

. EXISTING PRE-EMPTION SHALL BE

REVISIONS

18 HRT ISSUED FOR 90% SUBMISSION

31 MAW ISSUED FOR CONSTRUCTION

M.A. WATSON

R.V. Anderson Associates Limited engineering • environment • infrastructure RVA205577

Just North Enough to be PERFECT

MAIN STREET

**ROAD** 

**RECONSTRUCTION** 

**NEW CONSTRUCTION** 

TRAFFIC SIGNAL LAYOUT

MAIN STREET & FRASER STREET

H.R.T.

06/17/2022

Drawing Number:

**TS-201** 

Scale: 1:250 <sup>2.5</sup> 0 5 1:50 <sub>0.5</sub> 0

Checked by:

Drawing Set:

M.A.W.

36 of 61

16 MAW ISSUED FOR TENDER

HRT ISSUED FOR 100% SUBMISSION

Description

No. Date By

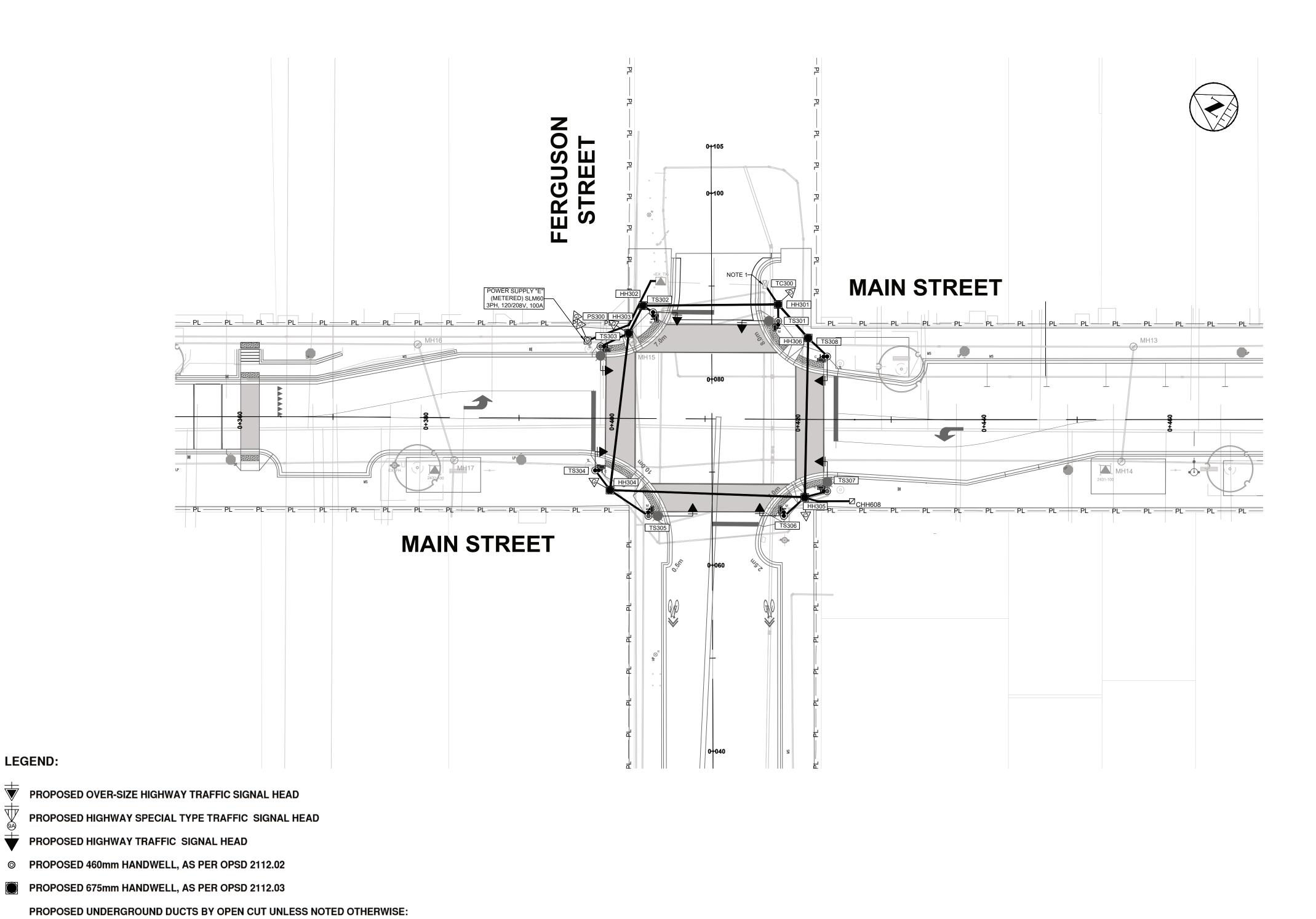
ON NEW TRAFFIC SIGNAL POLE.

**EXISTING CONTROLLER TO BE** SALVAGED AND INSTALLED ON NEW

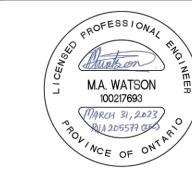
2. MAIN ST TRAFFIC SIGNAL

**ALONG MAIN ST TO CHH507.** 

FOUNDATION.



	-	TRAFFIC SI	GNAL	POL	EIC	ENT	IFICAT	ION C	HAR	Γ	PLC	\$	/	ERCIAL F
ITEN NO.		DESCRIPTION	<b>.</b>	PUSI		SIGN	PRE- EMPTION	LUMINA		EFERENCE TANDARD	FO	2AN		CASSELLS REER SEC THE
TS30		n LD SECTIONAL ST	EEL POLE	YES			-	LED		N/A	\ Ì	1	E OJ	CHATTAR ERASER SECOND THREE TO
TS30		n LD SECTIONAL ST		YES			YES			N/A	$ \cdot $	1	K	
TS30		n HD SECTIONAL ST		YES			120	LED		N/A	. v. v.	3	OR .	FEET MORE
						-	<b></b>	LED			KEZ		$\lambda$	A WALD TO THE
TS30		n LD SECTIONAL ST		YES		-	-			N/A	MEMOR			RERGUNDATE SHEREROOKE
TS30		n HD SECTIONAL ST		YES			-	LED		N/A				in she risher
TS30		n LD SECTIONAL ST		YES						N/A				KEY PLAN
TS30	07 6.0r	n HD SECTIONAL ST	TEEL POLE	YES	•	-	-	LED		N/A	$\vdash$			NOTES
TS30	08 6.0n	n LD SECTIONAL ST	TEEL POLE	YES	•					N/A				ONTROLLER TO BE
											F	OUND	ATIO	
		ELECTRIC				OLES	& HAI	NDHO	LES		IN	NTERC	ONN	AFFIC SIGNAL ECT DUCT CONNECTED
NO.		STATION	OF RT	FSET F	ROM LT CL	_ o	PSD NO.	c	OORDINA	TES	F	ROM	СНН6	08 TO HH305. CONNECTION 08 GOES EAST CROSSING CHH510 AND SOUTH
ннзо	01	0+418.0	-		12.2	2	112.030	-			Α	LONG	MAII	N ST TO CHH609. RE-EMPTION SHALL BE
HH30	)2	0+403.3	-		10.9	2	112.030	-			R	EMOV	/ED, \$	SALVAGED, AND INSTALLED AFFIC SIGNAL POLE.
HH30	)3	0+401.8	-		7.8	2	112.030	-						
НН30	04	0+400.0	9.	0	-	2	112.030	-						
НН30	05	0+421.0	8.	5	-	2	112.030	-			l			
НН30	06	0+421.1	-		8.7	2	112.030	-						
								-			l			
			TRAFE	FIC S	SIGN	IAL I	HEADS	}			l			
		SIGNAL HEAD	POLE O				HEAD TYPE		HEAD H	IEIGHT (m)				
		PRIMARY	SB-3.0	NB-	2.4	SB-H	WY NE	B-HWY	SB-5.0	NB-5.0				
ROAD		SECONDARY	SB-2.4	NB-	1.8	SB-H	WY NE	B-HWY	SB-5.0	NB-5.0				
OR R	PROT LEFT TURN													
MAJOR				ļ			_							
	PED HEADS	PRIMARY	SB-0.5	NB-		SB-C		B-CD	SB-2.75	NB-2.75			RE	VISIONS
	Ī	SECONDARY PRIMARY	SB-0.5 WB-4.6	NB-		SB-C WB-H		B-CD B-HWY	SB-2.75 WB-5.0	NB-2.75 EB-5.0	No.	Date	Ву	Description
٥		SECONDARY	WB-2.4	EB-		WB-H		B-HWY	WB-5.0	EB-5.0	1	03 18 2022	HRT	ISSUED FOR 90% SUBMISSION
ROAD		AUXILIARY									2	06 17	HRT	ISSUED FOR 100% SUBMISSION
MINOR	PROT LEFT TURN	PRIMARY SECONDARY									3	01 16 2023	MAW	ISSUED FOR TENDER
×	PED F	PRIMARY	WB-0.5	EB-	-	WB-0		B-CD	WB-2.75	EB-2.75	4	03 31 2023	MAW	ISSUED FOR CONSTRUCTION
	<u>-</u> ۳	SECONDARY	WB-0.5	EB-	0.5	WB-0	D E	B-CD	WB-2.75	EB-2.75				
													İ	
													(g)	ROFESSIONAL





**MAIN STREET ROAD RECONSTRUCTION** 

### TRAFFIC CONTROL SIGNAL HEADS ALL 30 cm LENSES, EXCEPT AS NOTED

8 9 AMBER ARROW MUST BE USED IN A PROTECTED/PERMISSIVE SIMULTANEOUS LEFT TURN OPERATION. NOTE: -FOR SPECIAL ARROW HEADS (8), (9), (10) AND (11), (20) cm AMBER BALL AND 20 cm GREEN BALL LENSES SHOULD BE USED -BICYCLE SYMBOL IN ACCORDANCE TO 0. REG. 626 H.T.A.

# **NEW CONSTRUCTION**

TRAFFIC SIGNAL LAYOUT MAIN STREET & FERGUSON STREET

Checked by: H.R.T. P.L.G. 06/17/2022 M.A.W. Scale: 1:250 <sup>2.5</sup> 0 5 1:50 <sub>0.5</sub> 0 1

Drawing Number: Drawing Set: 37 of 61

NOTE: ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.

PROPOSED HIGHWAY SPECIAL TYPE TRAFFIC SIGNAL HEAD

PROPOSED HIGHWAY TRAFFIC SIGNAL HEAD

PROPOSED UNDERGROUND DUCTS BY OPEN CUT UNLESS NOTED OTHERWISE: PROPOSED UNDERGROUND DUCTS (2-50mm & 1-75mm IN BOULEVARD) ——— PROPOSED UNDERGROUND DUCTS (1-50mm & 2-75mm FOR ROAD CROSSINGS)

**■** PROPOSED PEDESTRIAN SIGNAL HEAD

LEGEND:

PROPOSED ACCESSIBLE PEDESTRIAN PUSH BUTTON WITH AUDIBLE TONE:
-C = CUCKOO (NORTH/SOUTH DIRECTION)

**EXISTING TRAFFIC SIGNAL CONTROLLER** 

-M = MELODY (EAST/WEST DIRECTION)

PROPOSED METERED POWER SUPPLY (SLM60)

▶ PROPOSED POWER SUPPLY

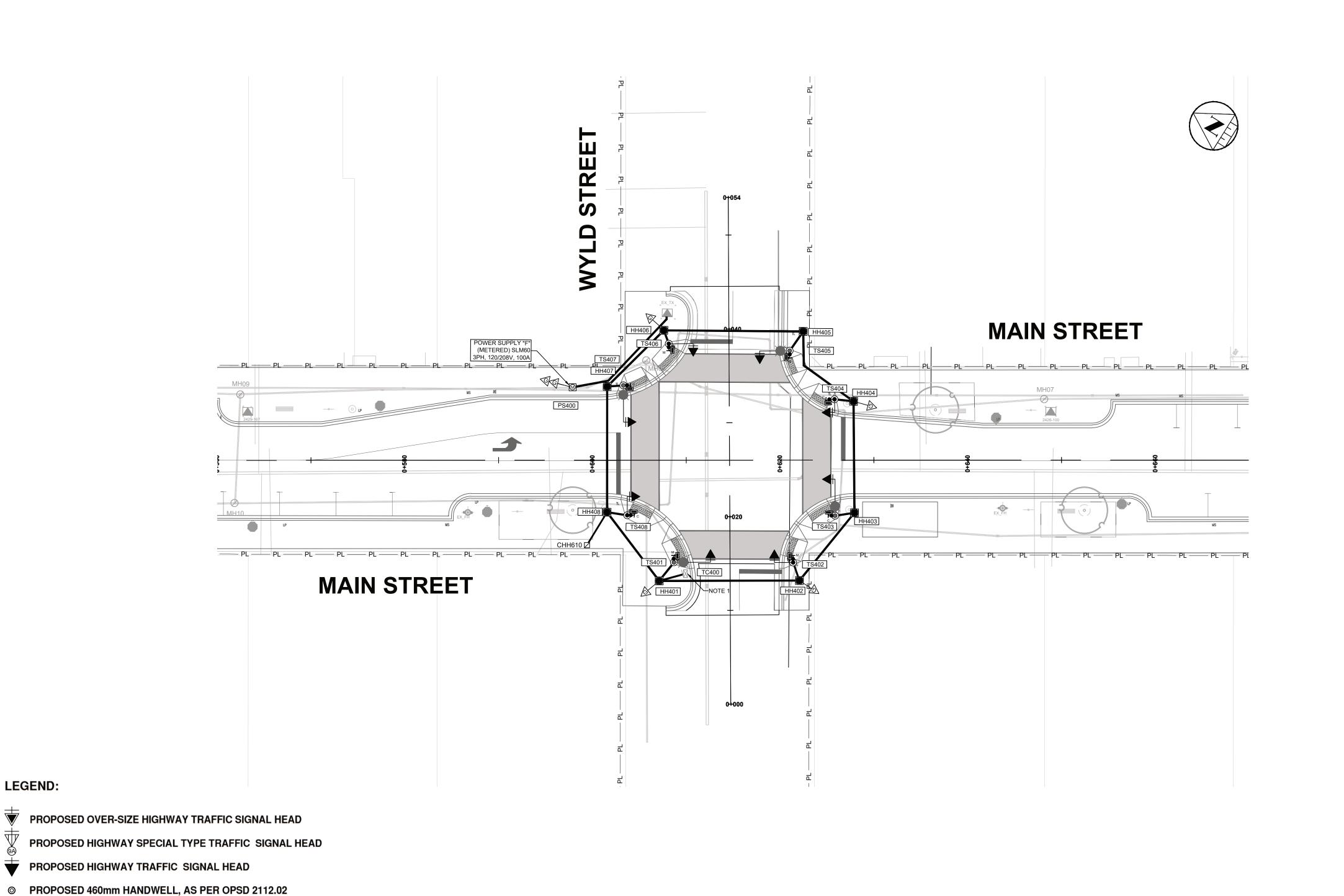
← PROPOSED GROUND ROD

• PROPOSED LUMINAIRE ON TRAFFIC POLE

TS101 TRAFFIC SIGNAL IDENTIFICATION NUMBER

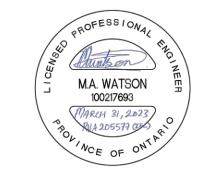
**EXISTING BASE TRANSFORMER (FOR INFORMATION ONLY)** 

EXISTING FIRE HYDRANT (FOR INFORMATION ONLY)



### TRAFFIC SIGNAL POLE IDENTIFICATION CHART PUSH BUTTON REFERENCE DESCRIPTION LUMINAIRE **EMPTION** STANDARD TS401 6.0m HD SECTIONAL STEEL POLE YES LED N/A TS402 6.0m LD SECTIONAL STEEL POLE N/A TS403 6.0m HD SECTIONAL STEEL POLE YES LED TS404 6.0m HD SECTIONAL STEEL POLE YES TS405 6.0m HD SECTIONAL STEEL POLE YES LED N/A TS406 6.0m LD SECTIONAL STEEL POLE N/A **KEY PLAN** TS407 6.0m HD SECTIONAL STEEL POLE LED N/A **NOTES** TS408 6.0m LD SECTIONAL STEEL POLE YES N/A **EXISTING CONTROLLER TO BE** SALVAGED AND INSTALLED ON NEW FOUNDATION. **ELECTRICAL MAINT. HOLES & HANDHOLES** 2. MAIN ST TRAFFIC SIGNAL INTERCONNECT DUCT CONNECTED FROM CHH610 TO HH408. CONNECTION OFFSET FROM FROM CHH610 GOES NORTH ALONG STATION COORDINATES OPSD NO. NO. RT CL LT CL MAIN ST TO CHH609 AND SOUTH **ALONG MAIN ST TO CHH611.** HH401 0+607.0 13.0 2112.030 B. EXISTING PRE-EMPTION SHALL BE REMOVED, SALVAGED, AND INSTALLED HH402 0+622.1 13.0 2112.030 ON NEW TRAFFIC SIGNAL POLE. HH403 5.7 2112.030 0+627.9 HH404 0+627.9 6.1 2112.030 0+622.5 13.6 2112.030 0+607.7 13.7 2112.030 0+601.6 7.7 2112.030 0+601.6 5.6 2112.030 TRAFFIC SIGNAL HEADS **HEAD HEIGHT (m)** SIGNAL HEAD POLE OFFSET (m) **HEAD TYPE** SB-5.0 NB-5.0 PRIMARY SB-3.7 NB-3.7 SB-HWY SECONDARY SB-1.2 NB-1.8 SB-HWY NB-HWY SB-5.0 NB-5.0 **AUXILIARY** REVISIONS PRIMARY No. Date By Description ∃≓ SECONDARY SB-0.5 NB-0.5 NB-CD SB-2.75 NB-2.75 PRIMARY SB-CD 18 HRT ISSUED FOR 90% SUBMISSION <sup>™</sup> 出 SECONDARY NB-0.5 NB-CD SB-2.75 NB-2.75 HRT ISSUED FOR 100% SUBMISSION PRIMARY WB-3.7 EB-3.0 **WB-HWY** EB-HWY WB-5.0 EB-5.0 16 MAW ISSUED FOR TENDER WB-1.8 **EB-HWY** WB-5.0 EB-5.0 SECONDARY EB-2.4 **WB-HWY AUXILIARY** 31 MAW ISSUED FOR CONSTRUCTION **PRIMARY** 물물로 SECONDARY WB-0.5 EB-0.5 WB-CD EB-CD WB-2.75 EB-2.75

EB-CD WB-2.75 EB-2.75





**MAIN STREET ROAD RECONSTRUCTION** 

**NEW CONSTRUCTION** 

### TRAFFIC CONTROL SIGNAL HEADS ALL 30 cm LENSES, EXCEPT AS NOTED

SECONDARY

(8) (9) AMBER ARROW MUST BE USED IN A PROTECTED/PERMISSIVE SIMULTANEOUS LEFT TURN OPERATION. NOTE: -FOR SPECIAL ARROW HEADS (8), (9), (10) AND (11), (20) cm AMBER BALL AND 20 cm GREEN BALL LENSES SHOULD BE USED -BICYCLE SYMBOL IN ACCORDANCE TO 0. REG. 626 H.T.A.

WB-0.5 EB-0.5

WB-CD

TRAFFIC SIGNAL LAYOUT MAIN STREET & WYLD STREET H.R.T.

Checked by: P.L.G. 06/17/2022 M.A.W. Scale: 1:250 <sup>2.5</sup> 0 5 1:50 <sub>0.5</sub> 0

Drawing Number: Drawing Set: **TS-401** 38 of 61

**EXISTING TRAFFIC SIGNAL CONTROLLER** 

**■** PROPOSED PEDESTRIAN SIGNAL HEAD

PROPOSED METERED POWER SUPPLY (SLM60)

-C = CUCKOO (NORTH/SOUTH DIRECTION)

-M = MELODY (EAST/WEST DIRECTION)

PROPOSED 675mm HANDWELL, AS PER OPSD 2112.03

PROPOSED UNDERGROUND DUCTS BY OPEN CUT UNLESS NOTED OTHERWISE:

----- PROPOSED UNDERGROUND DUCTS (2-50mm & 1-75mm IN BOULEVARD)

——— PROPOSED UNDERGROUND DUCTS (1-50mm & 2-75mm FOR ROAD CROSSINGS)

PROPOSED ACCESSIBLE PEDESTRIAN PUSH BUTTON WITH AUDIBLE TONE:

▶ PROPOSED POWER SUPPLY

**←** PROPOSED GROUND ROD

LEGEND:

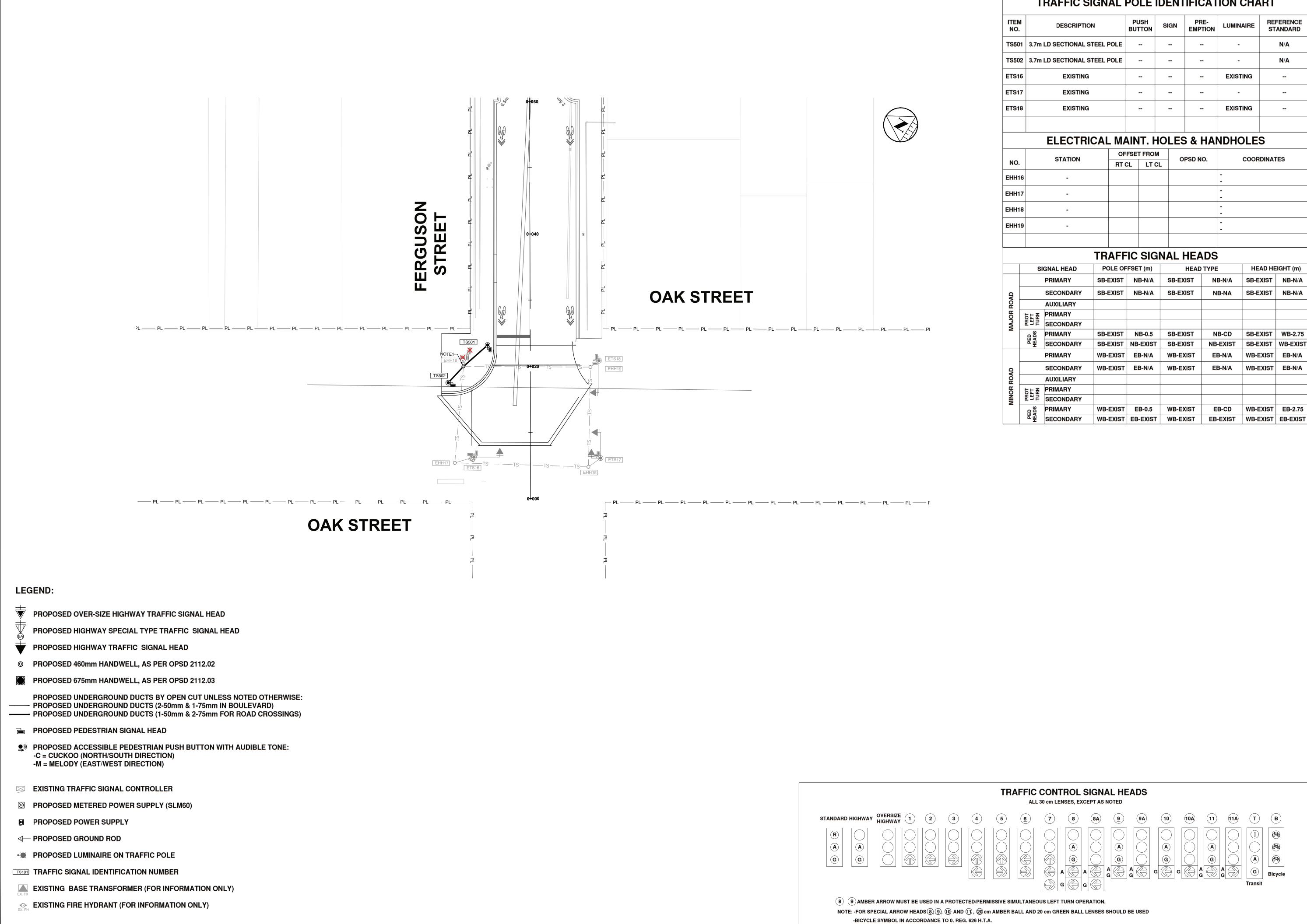
• PROPOSED LUMINAIRE ON TRAFFIC POLE

TS101 TRAFFIC SIGNAL IDENTIFICATION NUMBER

**EXISTING BASE TRANSFORMER (FOR INFORMATION ONLY)** 

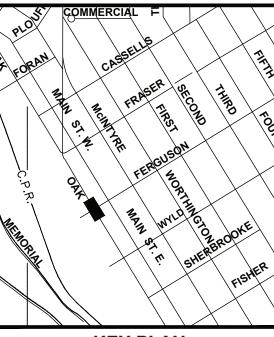
**EXISTING FIRE HYDRANT (FOR INFORMATION ONLY)** 

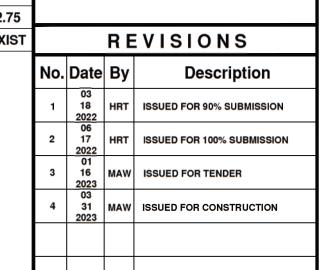
NOTE: ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.

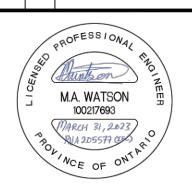


NOTE: ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.

TRAFFIC SIGNAL POLE IDENTIFICATION CHART REFERENCE STANDARD N/A **KEY PLAN ELECTRICAL MAINT. HOLES & HANDHOLES NOTES** COORDINATES **PULL EXISTING CABLES FROM** EHH16 AND CONNECT NEW CABLES FOR POLES (TS501 &TS502). HEAD HEIGHT (m) SB-EXIST NB-N/A SB-EXIST NB-N/A









**MAIN STREET ROAD RECONSTRUCTION** 

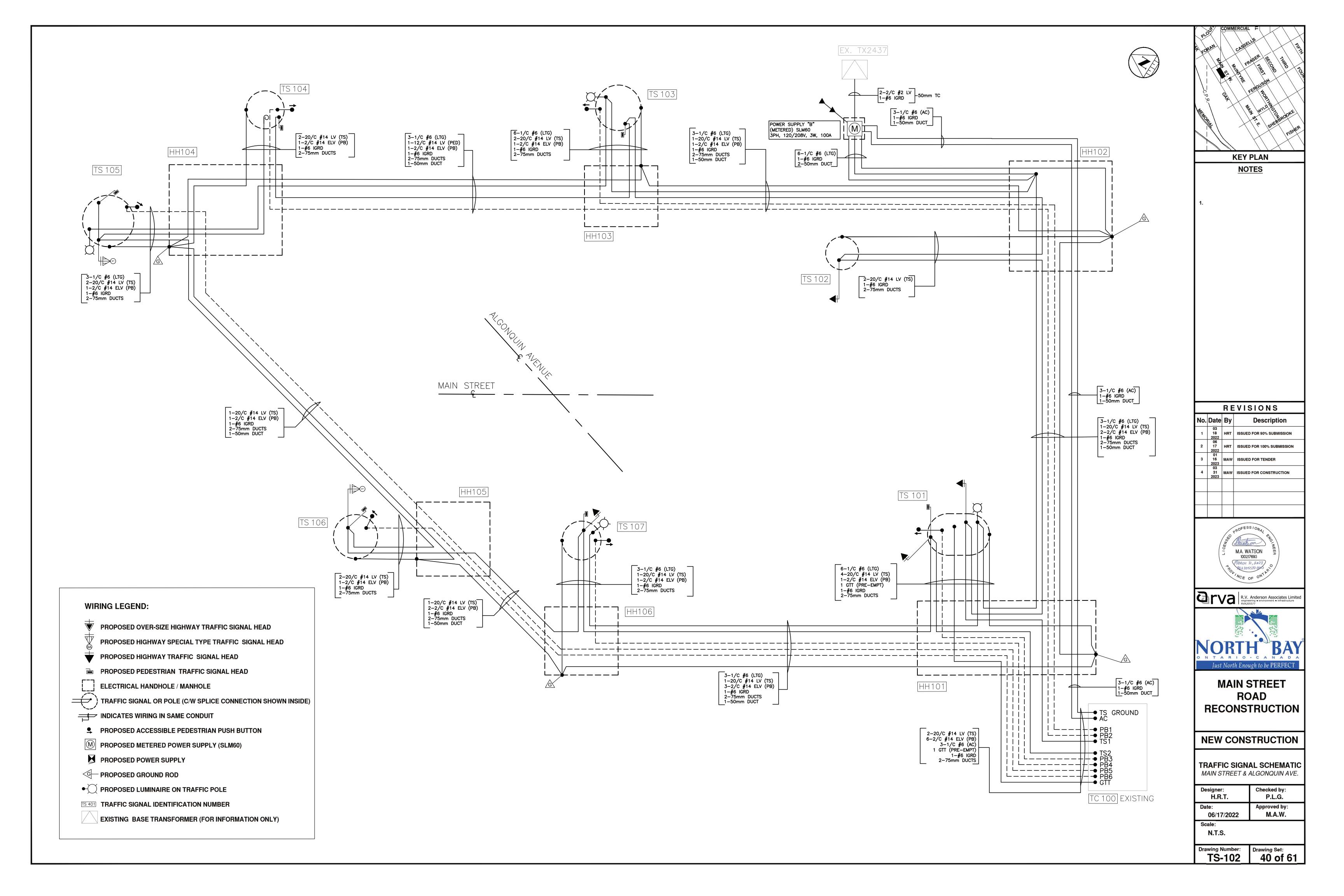
**NEW CONSTRUCTION** 

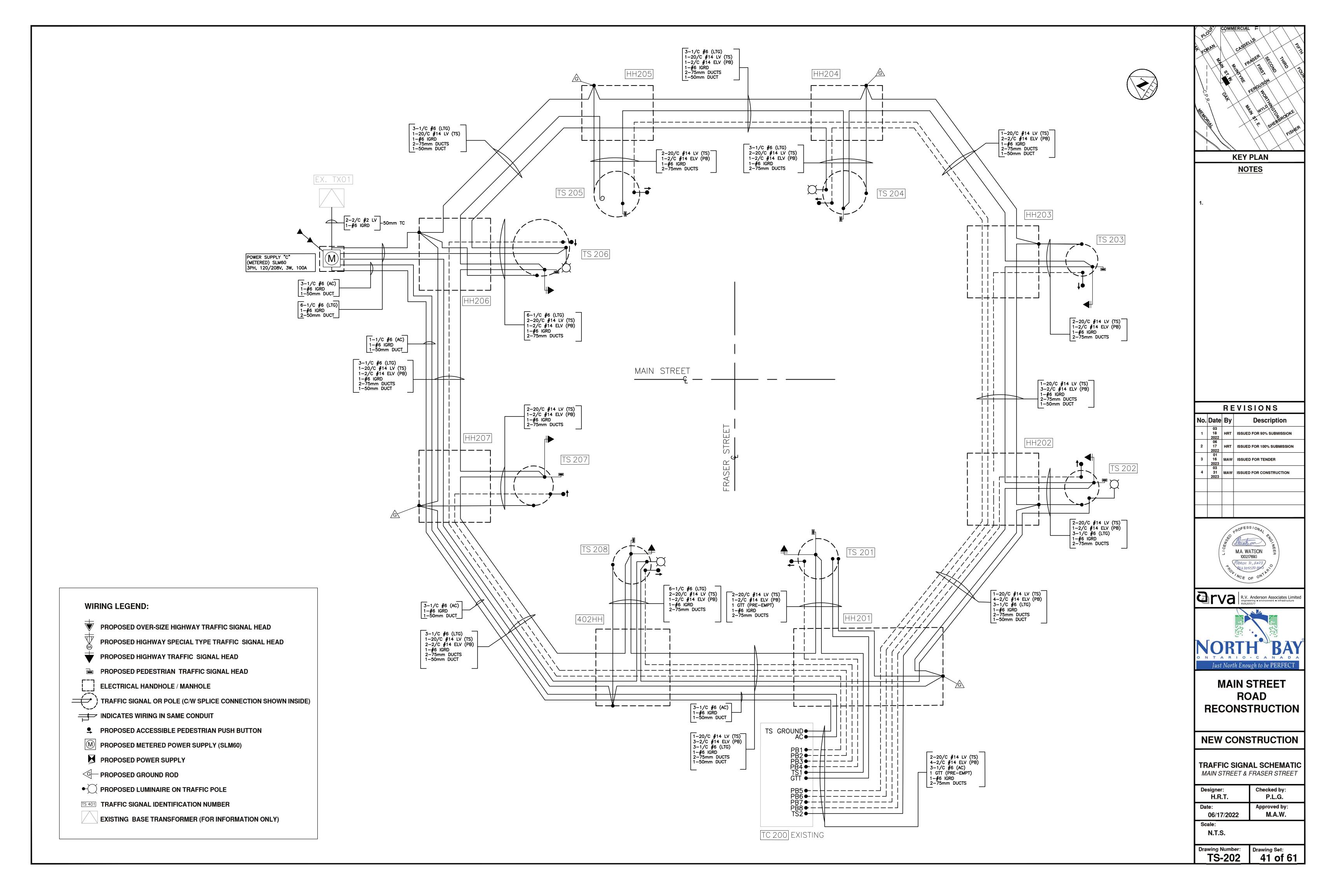
TRAFFIC SIGNAL LAYOUT MAIN ST & OAK STREET

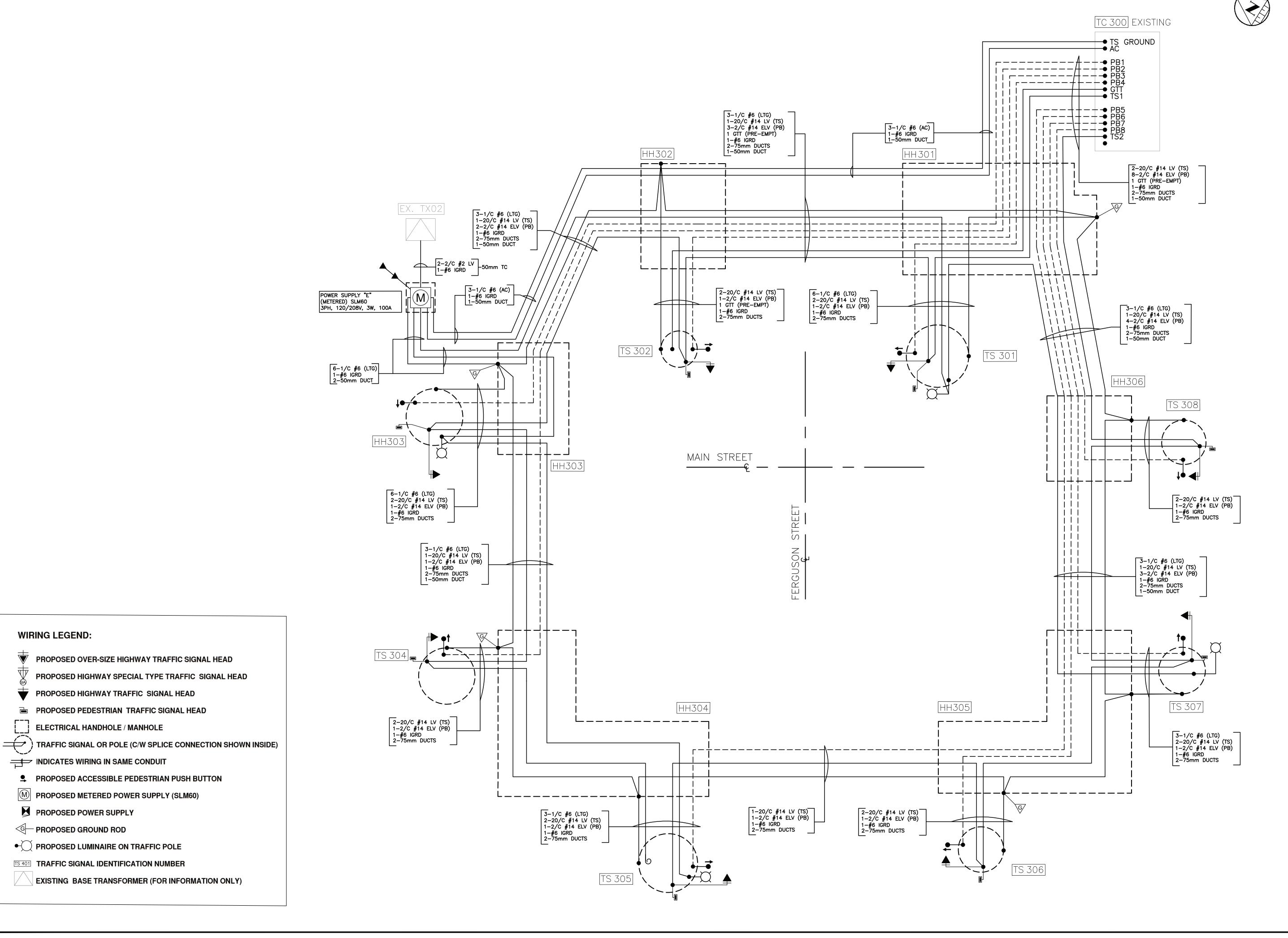
Checked by: H.R.T. P.L.G. Approved by: 06/17/2022 M.A.W. Scale: 1:250 2.5 0 5 1:50 0.5 0 1

Drawing Number:

Drawing Set: **TS-501** 39 of 61







**WIRING LEGEND:** 

PROPOSED OVER-SIZE HIGHWAY TRAFFIC SIGNAL HEAD

PROPOSED HIGHWAY TRAFFIC SIGNAL HEAD

PROPOSED PEDESTRIAN TRAFFIC SIGNAL HEAD

PROPOSED ACCESSIBLE PEDESTRIAN PUSH BUTTON

**EXISTING BASE TRANSFORMER (FOR INFORMATION ONLY)** 

M PROPOSED METERED POWER SUPPLY (SLM60)

• PROPOSED LUMINAIRE ON TRAFFIC POLE

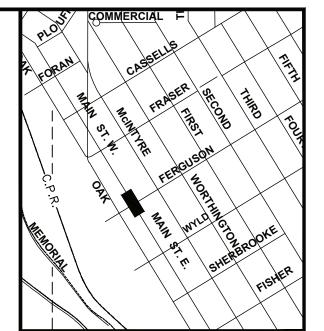
TS 401 TRAFFIC SIGNAL IDENTIFICATION NUMBER

ELECTRICAL HANDHOLE / MANHOLE

INDICATES WIRING IN SAME CONDUIT

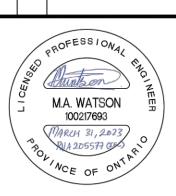
PROPOSED POWER SUPPLY

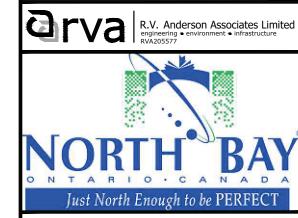
PROPOSED HIGHWAY SPECIAL TYPE TRAFFIC SIGNAL HEAD



K	EY	PL	AN
	NO	TE	<u>s</u>

REVISIONS							
No.	Date	Ву	Description				
1	03 18 2022	HRT	ISSUED FOR 90% SUBMISSION				
2	06 17 2022	HRT	ISSUED FOR 100% SUBMISSION				
3	01 16 2023	MAW	ISSUED FOR TENDER				
4	03 31 2023	MAW	ISSUED FOR CONSTRUCTION				





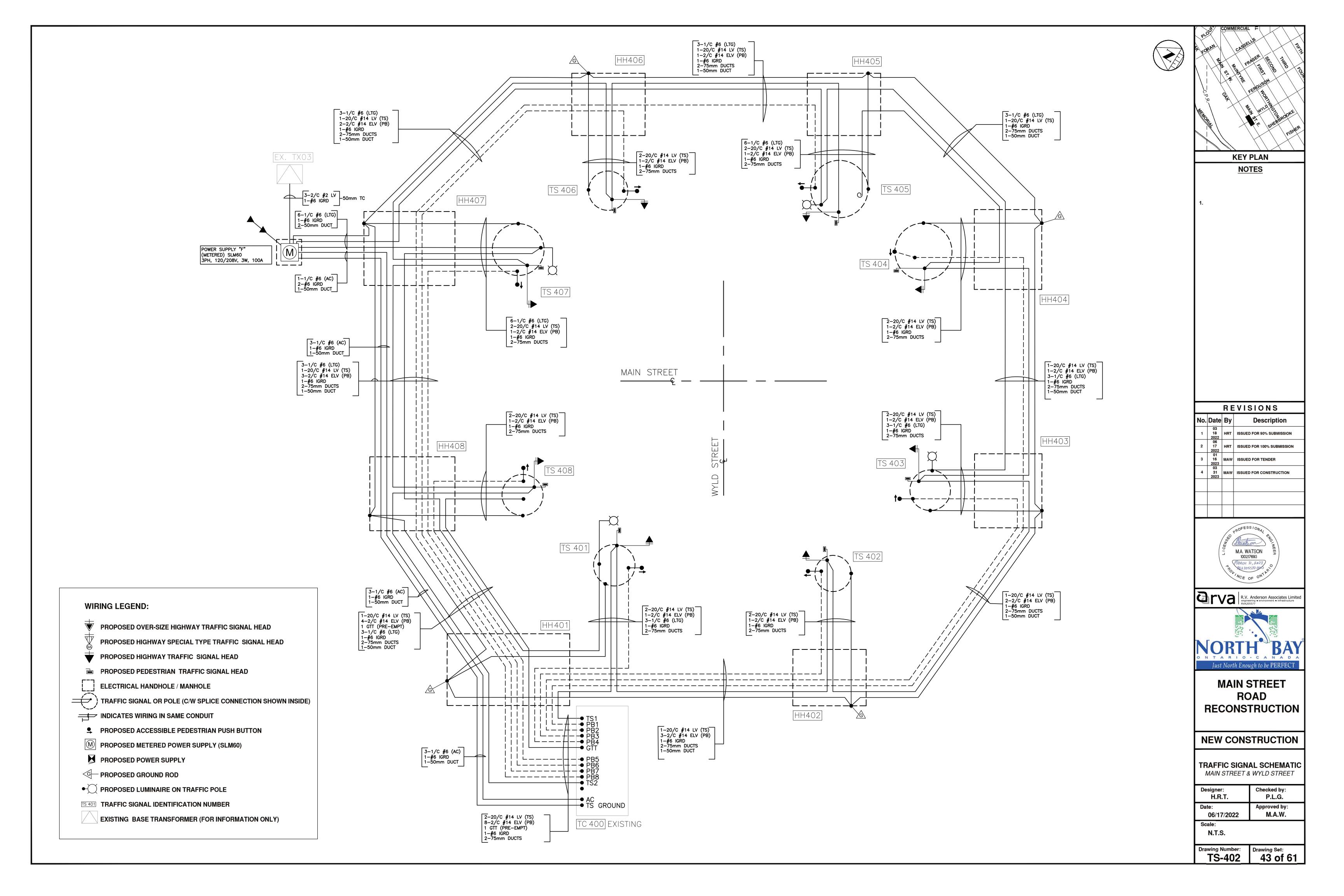
**MAIN STREET ROAD RECONSTRUCTION** 

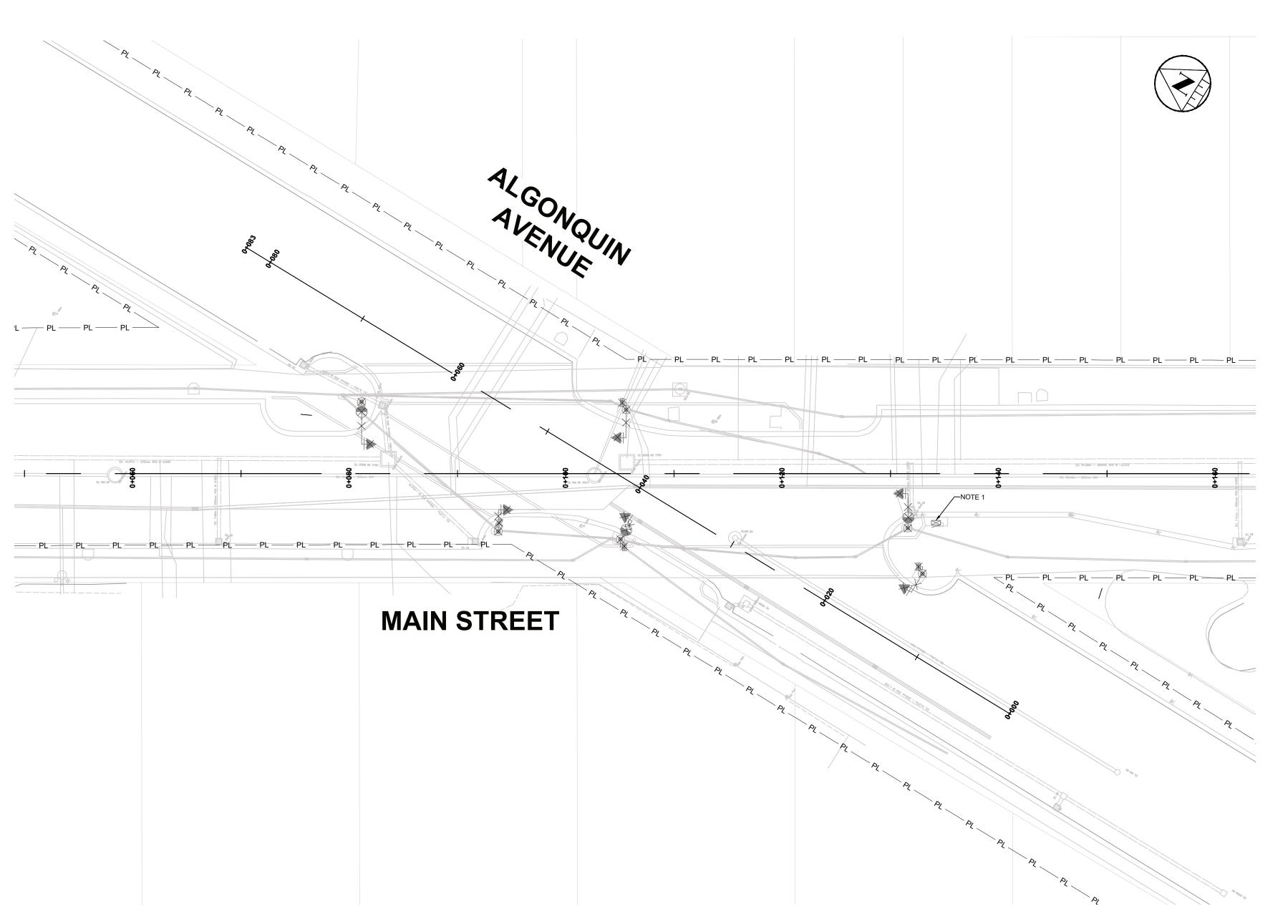
**NEW CONSTRUCTION** 

TRAFFIC SIGNAL SCHEMATIC MAIN STREET & FERGUSON STREET

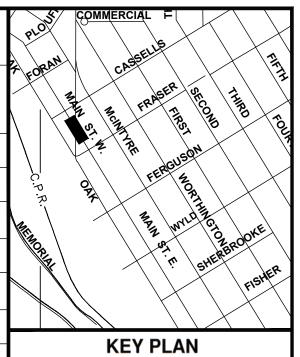
Designer: H.R.T.	Checked by: P.L.G.
Date: 06/17/2022	Approved by: M.A.W.
Scale: N.T.S.	

Drawing Number: Drawing Set: 42 of 61



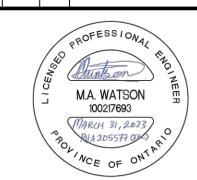


EXISTING ELECTRICAL REMOVAL CHART							
TS EQUIPMENT	REMOVE & DISPOSE	REMOVE & RELOCATE	DELIVER TO THE CITY	NOTES			
HANDWELLS	ALL	-	-				
SIGNAL POLE BASES	-	6	-				
TRAFFIC SIGNAL POLE	-	6	-				
TRAFFIC SIGNAL ARM	-	6	-				
PEDESTRIAN SIGNAL HEADS	-	4	-				
PEDESTRIAN PUSH BUTTONS	-	-	-				
TRAFFIC SIGNAL SIGNAL CONTROLLER	-	1	-				
PRE-EMPTION DETECTOR	-	-	-				
LUMINAIRE & ARM	-	3	-				
ALL OTHER SIGN	-	-	-				
POWER SERVICE (POLE MOUNTED)	-	-	-				
U/G CABLES & CONDUITS	ALL	-	-				



- 1. SALVAGE EXISTING TRAFFIC CONTROLLER CABINET.
- 2. ALL EQUIPMENT; POLES,
  PUSHBUTTONS, TRAFFIC LIGHTS,
  CAMERAS, ETC. SHALL BE SALVAGED
  AND DELIVERED TO PUBLIC WORKS.

REVISIONS					
No.	Date	Ву	Description		
1	03 18 2022	HRT	ISSUED FOR 90% SUBMISSION		
2	01 16 2023	MAW	ISSUED FOR TENDER		
3	03 31 2023	MAW	ISSUED FOR CONSTRUCTION		





MAIN STREET
ROAD
RECONSTRUCTION

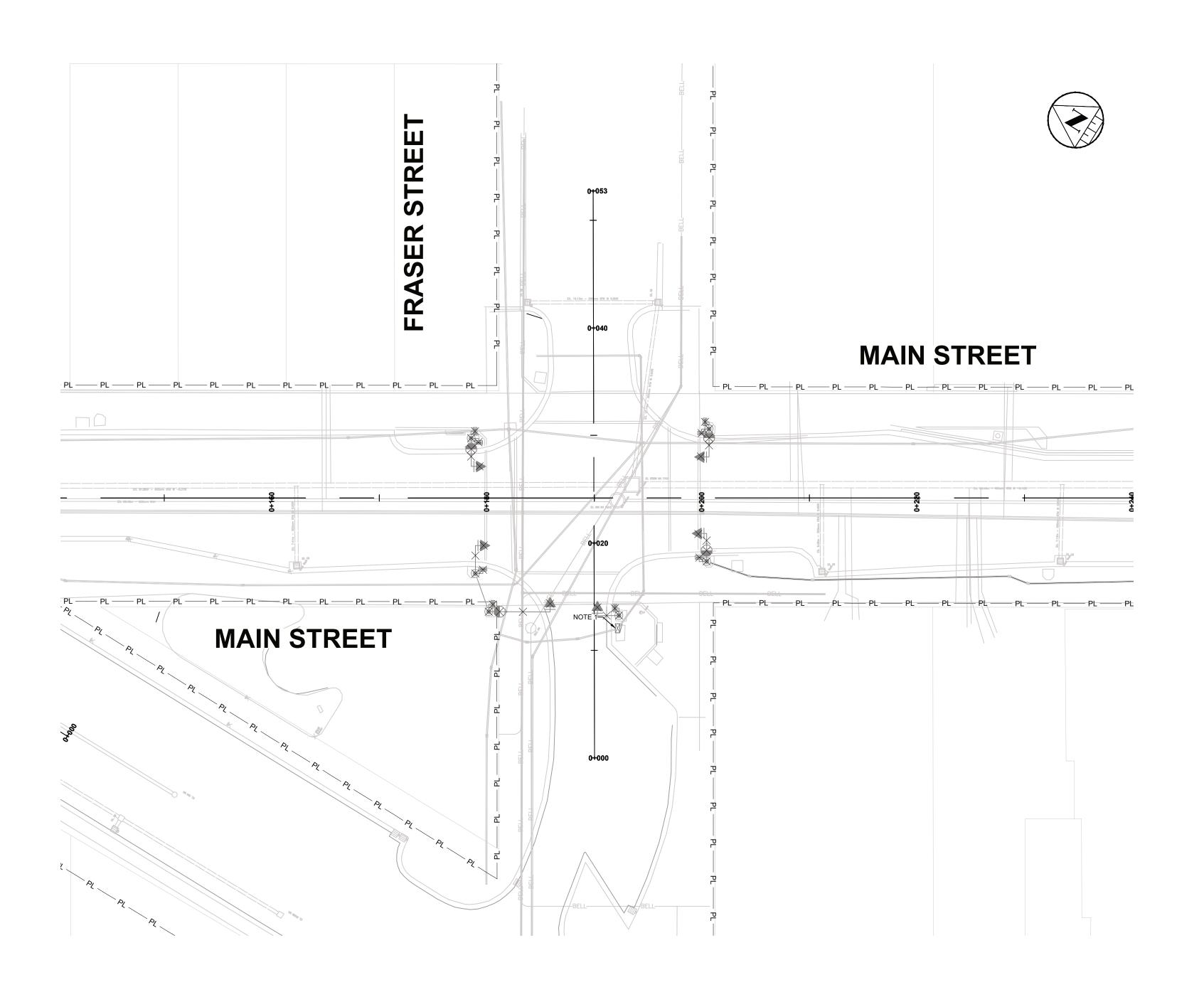
**NEW CONSTRUCTION** 

TRAFFIC SIGNAL REMOVAL MAIN STREET & ALGONQUIN AVE

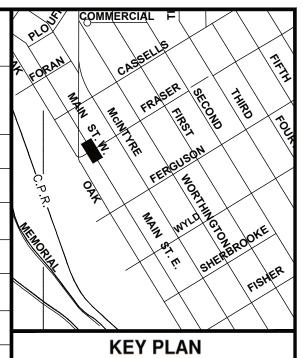
Designer: H.R.T.	Checked by: P.L.G.
Date:	Approved by:
03/18/2022	M.A.W.
Scale: 1:250 <sup>2:5</sup> 0	5 10
1:50	1 2
Drawing Number:	Drawing Set:
TS-103	44 of 61

# LEGEND:

- **EXISTING OVER-SIZE HIGHWAY TRAFFIC SIGNAL HEAD**
- EXISTING HIGHWAY SPECIAL TYPE TRAFFIC SIGNAL HEAD
- EXISTING HIGHWAY TRAFFIC SIGNAL HEAD
- **EXISTING 675mm HANDWELL**
- ---TS-EXISTING TRAFFIC SIGNAL UNDERGROUND DUCTS
- EXISTING PEDESTRIAN SIGNAL HEAD
- EXISTING PEDESTRIAN PUSH BUTTON
- **EXISTING TRAFFIC SIGNAL CONTROLLER**
- **EXISTING POWER SUPPLY**
- EXISTING GROUND ROD
- EXISTING LUMINAIRE ON TRAFFIC POLE
- TS101 EXISTING TRAFFIC SIGNAL IDENTIFICATION NUMBER
- **EXISTING BASE TRANSFORMER (FOR INFORMATION ONLY)**
- × REMOVAL



EXISTING ELECTRICAL REMOVAL CHART						
TS EQUIPMENT	REMOVE & DISPOSE	REMOVE & RELOCATE	DELIVER TO THE CITY	NOTES		
HANDWELLS	ALL	-	-			
SIGNAL POLE BASES	-	6	-			
TRAFFIC SIGNAL POLE	-	6	-			
TRAFFIC SIGNAL ARM	-	6	-			
PEDESTRIAN SIGNAL HEADS	-	4	-			
PEDESTRIAN PUSH BUTTONS	-	-	-			
TRAFFIC SIGNAL SIGNAL CONTROLLER	-	1	-			
PRE-EMPTION DETECTOR	-	-	-			
LUMINAIRE & ARM	-	4	-			
ALL OTHER SIGN	-	-	-			
POWER SERVICE (POLE MOUNTED)	-	-	-			
U/G CABLES & CONDUITS	ALL	-	-			



- 1. SALVAGE EXISTING TRAFFIC CONTROLLER CABINET.
- 2. ALL EQUIPMENT; POLES,
  PUSHBUTTONS, TRAFFIC LIGHTS,
  CAMERAS, ETC. SHALL BE SALVAGED
  AND DELIVERED TO PUBLIC WORKS.

REVISIONS								
No.	Date By Descriptio							
1	03 18 2022	HRT	ISSUED FOR 90% SUBMISSION					
2	01 16 2023	MAW	ISSUED FOR TENDER					
3	03 31 2023	MAW	ISSUED FOR CONSTRUCTION					





MAIN STREET
ROAD
RECONSTRUCTION

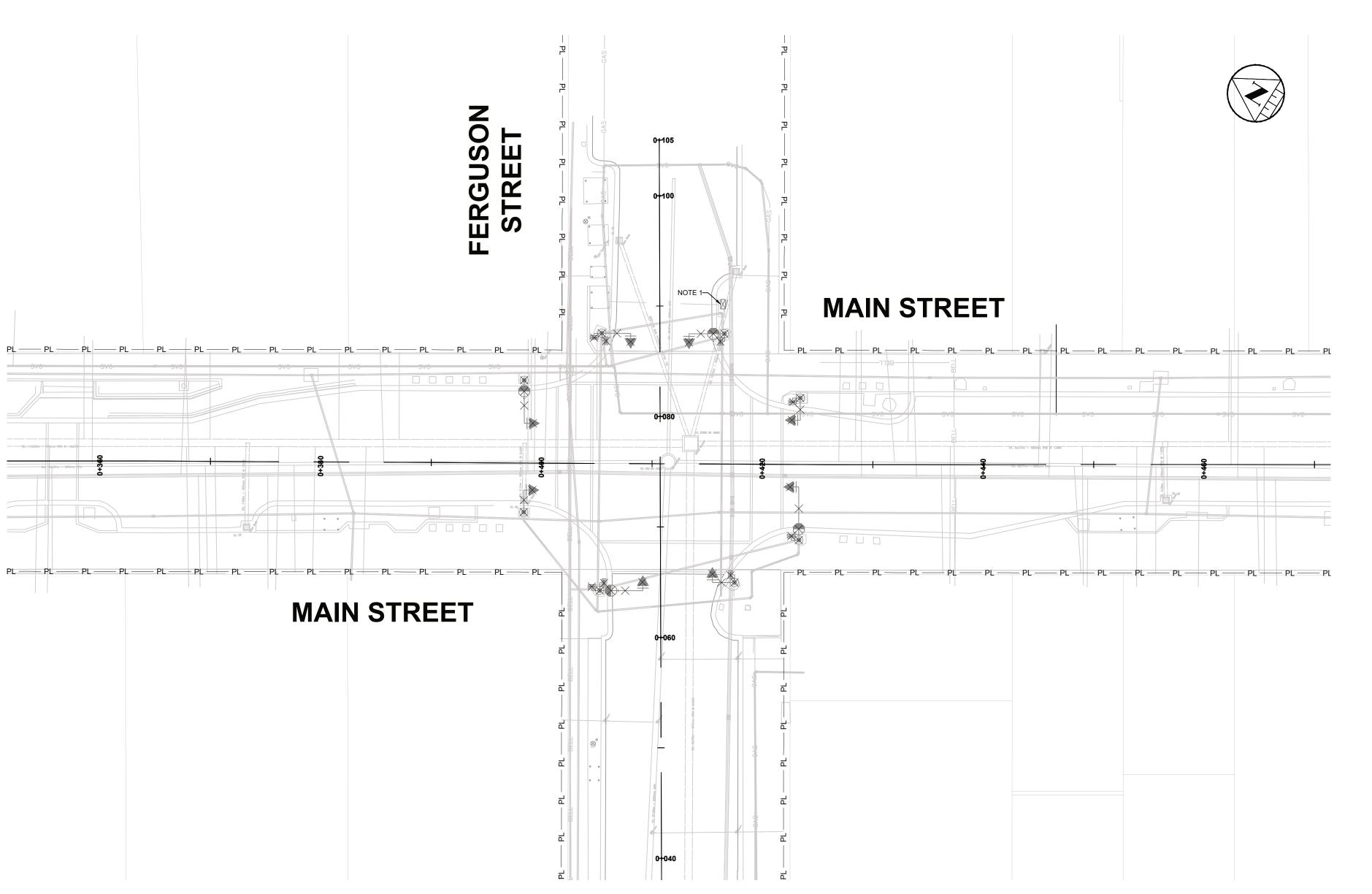
**NEW CONSTRUCTION** 

TRAFFIC SIGNAL REMOVAL MAIN STREET & FRASER STREET

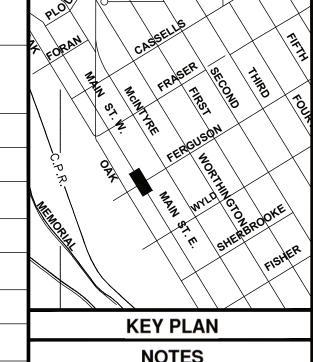
Designer: H.R.T.	Checked by: P.L.G.
Date:	Approved by:
03/18/2022	M.A.W.
Scale: 1:250 <sup>2,5</sup> 0	5 10
1:50 <sub>0.5</sub> 0	1 2
Drawing Number:	Drawing Set: 45 of 61

LEGEND:
---------

- EXISTING OVER-SIZE HIGHWAY TRAFFIC SIGNAL HEAD
- EXISTING HIGHWAY SPECIAL TYPE TRAFFIC SIGNAL HEAD
- EXISTING HIGHWAY TRAFFIC SIGNAL HEAD
- **EXISTING 675mm HANDWELL**
- —TS—EXISTING TRAFFIC SIGNAL UNDERGROUND DUCTS
- EXISTING PEDESTRIAN SIGNAL HEAD
- EXISTING PEDESTRIAN PUSH BUTTON
- **EXISTING TRAFFIC SIGNAL CONTROLLER**
- **EXISTING POWER SUPPLY**
- **EXISTING GROUND ROD**
- EXISTING LUMINAIRE ON TRAFFIC POLE
- TS101 EXISTING TRAFFIC SIGNAL IDENTIFICATION NUMBER
- **EXISTING BASE TRANSFORMER (FOR INFORMATION ONLY)**
- × REMOVAL

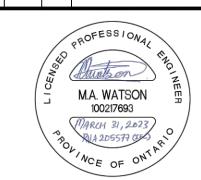


EXISTING ELECTRICAL REMOVAL CHART							
TS EQUIPMENT	REMOVE & DISPOSE	REMOVE & RELOCATE	DELIVER TO THE CITY	NOTES			
HANDWELLS	ALL	-	-				
SIGNAL POLE BASES	-	8	-				
TRAFFIC SIGNAL POLE	-	8	-				
TRAFFIC SIGNAL ARM	-	8	-				
PEDESTRIAN SIGNAL HEADS	-	8	-				
PEDESTRIAN PUSH BUTTONS	-	-	-				
TRAFFIC SIGNAL SIGNAL CONTROLLER	-	1	-				
PRE-EMPTION DETECTOR	-	-	-				
LUMINAIRE & ARM	-	4	-				
ALL OTHER SIGN	-	-	-				
POWER SERVICE (POLE MOUNTED)	-	-	-				
U/G CABLES & CONDUITS	ALL	-	-				



- 1. SALVAGE EXISTING TRAFFIC CONTROLLER CABINET.
- 2. ALL EQUIPMENT; POLES, PUSHBUTTONS, TRAFFIC LIGHTS, CAMERAS, ETC. SHALL BE SALVAGED AND DELIVERED TO PUBLIC WORKS.

	REVISIONS						
No.	Date	Ву	Description				
1	03 18 2022	HRT	ISSUED FOR 90% SUBMISSION				
2	01 16 2023	MAW	ISSUED FOR TENDER				
3	03 31 2023	MAW	ISSUED FOR CONSTRUCTION				





**MAIN STREET ROAD** RECONSTRUCTION

**NEW CONSTRUCTION** 

TRAFFIC SIGNAL REMOVAL MAIN STREET & FERGUSON STREET

H.R.T.	P.L.G.	
Date: 03/18/2022	Approved by: M.A.W.	
Scale: 1:250 <sup>2,5</sup> 0	5 10	•
1:50 0.5 0	1 2	

Drawing Number: TS-303 Drawing Set:
46 of 61

LEGEND:

EXISTING OVER-SIZE HIGHWAY TRAFFIC SIGNAL HEAD

EXISTING HIGHWAY SPECIAL TYPE TRAFFIC SIGNAL HEAD

EXISTING HIGHWAY TRAFFIC SIGNAL HEAD

EXISTING 460mm HANDWELL

EXISTING 675mm HANDWELL

TS-EXISTING TRAFFIC SIGNAL UNDERGROUND DUCTS

EXISTING PEDESTRIAN SIGNAL HEAD

EXISTING PEDESTRIAN PUSH BUTTON

**EXISTING TRAFFIC SIGNAL CONTROLLER** 

EXISTING POWER SUPPLY

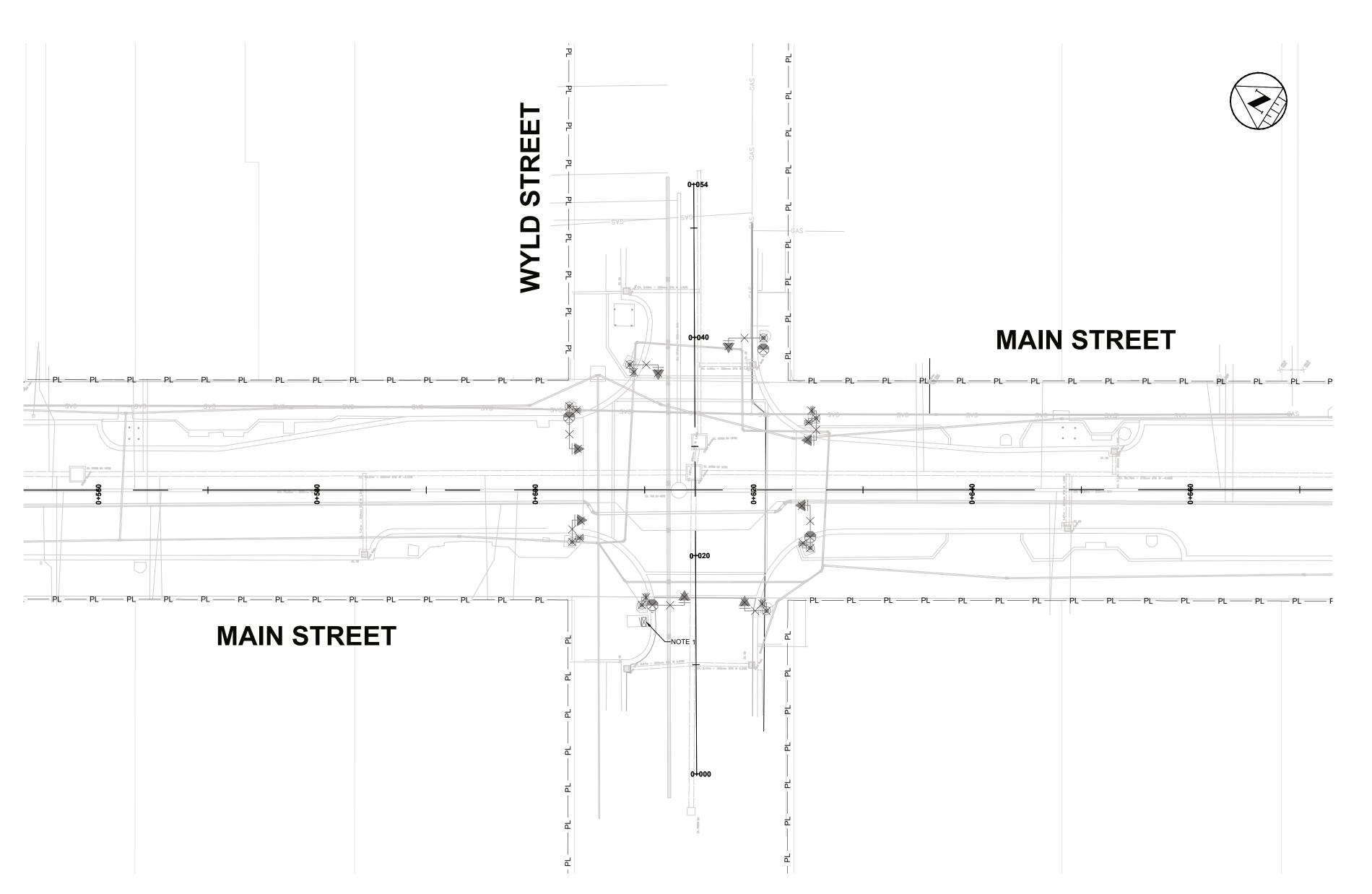
EXISTING GROUND ROD

EXISTING LUMINAIRE ON TRAFFIC POLE

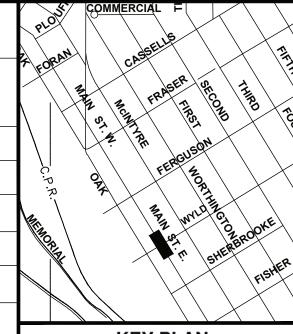
**EXISTING TRAFFIC SIGNAL IDENTIFICATION NUMBER** 

**EXISTING BASE TRANSFORMER (FOR INFORMATION ONLY)** 

× **REMOVAL** 



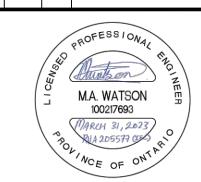
TS EQUIPMENT	REMOVE & DISPOSE	REMOVE & RELOCATE	THE CITY	NOTES
HANDWELLS	ALL	-	-	
SIGNAL POLE BASES	-	8	-	
TRAFFIC SIGNAL POLE	-	8	-	
TRAFFIC SIGNAL ARM	-	8	-	
PEDESTRIAN SIGNAL HEADS	-	4	-	
PEDESTRIAN PUSH BUTTONS	-	-	-	
TRAFFIC SIGNAL SIGNAL CONTROLLER	-	1	-	
PRE-EMPTION DETECTOR	-	-	-	
LUMINAIRE & ARM	-	4	-	
ALL OTHER SIGN	-	-	-	
POWER SERVICE (POLE MOUNTED)	-	-	-	
U/G CABLES & CONDUITS	ALL	-	-	



## KEY PLAN NOTES

- 1. SALVAGE EXISTING TRAFFIC CONTROLLER CABINET.
- 2. ALL EQUIPMENT; POLES,
  PUSHBUTTONS, TRAFFIC LIGHTS,
  CAMERAS, ETC. SHALL BE SALVAGED
  AND DELIVERED TO PUBLIC WORKS.

REVISIONS						
No.	Date	Ву	Description			
1	03 18 2022	HRT	ISSUED FOR 90% SUBMISSION			
2	01 16 2023	MAW	ISSUED FOR TENDER			
3	03 31 2023	MAW	ISSUED FOR CONSTRUCTION			





MAIN STREET
ROAD
RECONSTRUCTION

**NEW CONSTRUCTION** 

Checked by:

TRAFFIC SIGNAL REMOVAL
MAIN STREET & WYLD STREET

H.R.T.	P.L.G.		
Date:	Approved by:		
03/18/2022	M.A.W.		
Scale: 1:250 <sup>2,5</sup> 0	5 10		
1:50 <sub>0.5</sub> 0	1 2		
Drawing Number:	Drawing Set:		
TS-403_	47 of 61		

LEGEND:

EXISTING OVER-SIZE HIGHWAY TRAFFIC SIGNAL HEAD

EXISTING HIGHWAY SPECIAL TYPE TRAFFIC SIGNAL HEAD

EXISTING HIGHWAY TRAFFIC SIGNAL HEAD

**EXISTING 675mm HANDWELL** 

TS-EXISTING TRAFFIC SIGNAL UNDERGROUND DUCTS

EXISTING PEDESTRIAN SIGNAL HEAD

EXISTING PEDESTRIAN PUSH BUTTON

EXISTING TRAFFIC SIGNAL CONTROLLER

**EXISTING POWER SUPPLY** 

EXISTING GROUND ROD

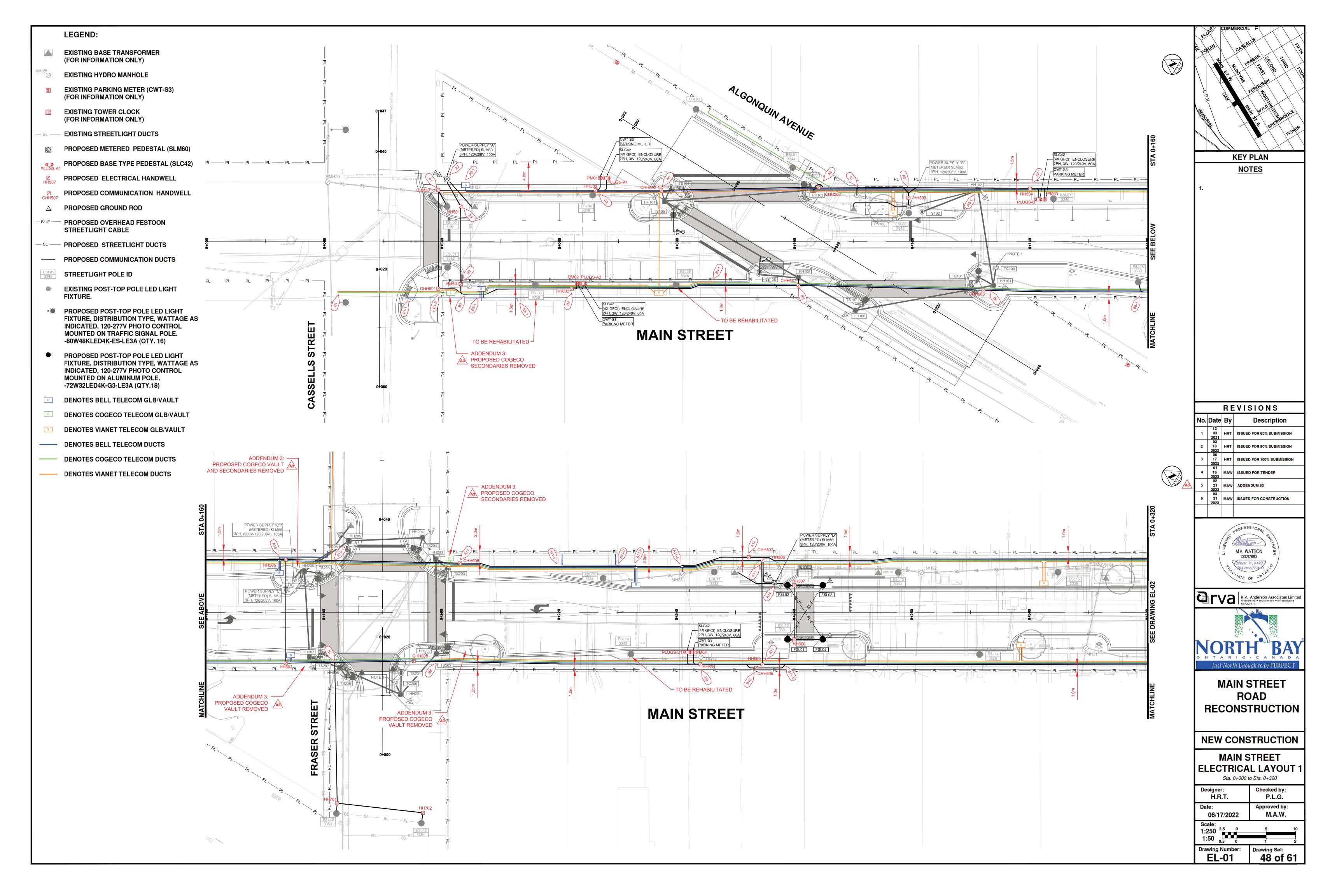
EXISTING LUMINAIRE ON TRAFFIC POLE

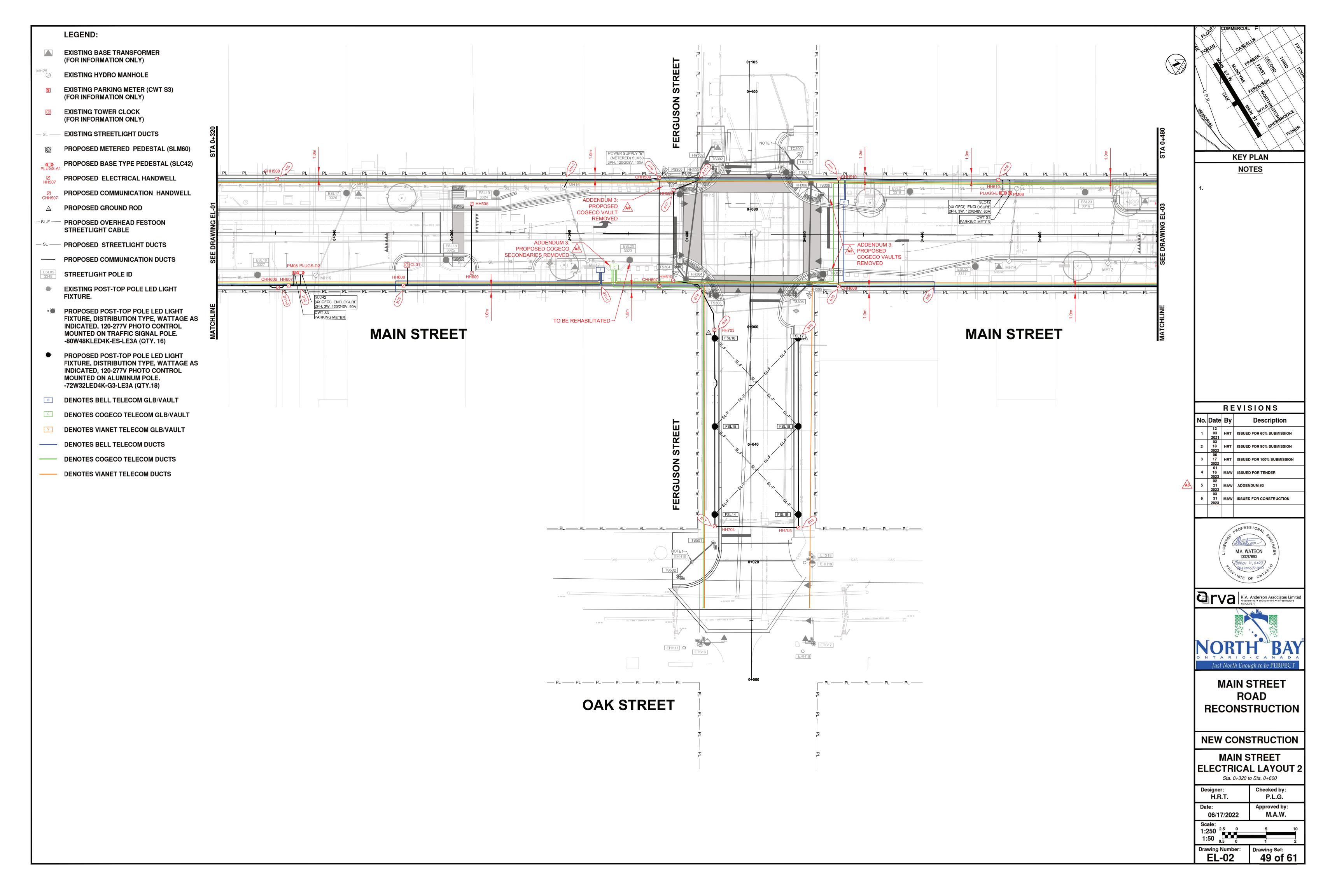
TS101 EXISTING TRAFFIC SIGNAL IDENTIFICATION NUMBER

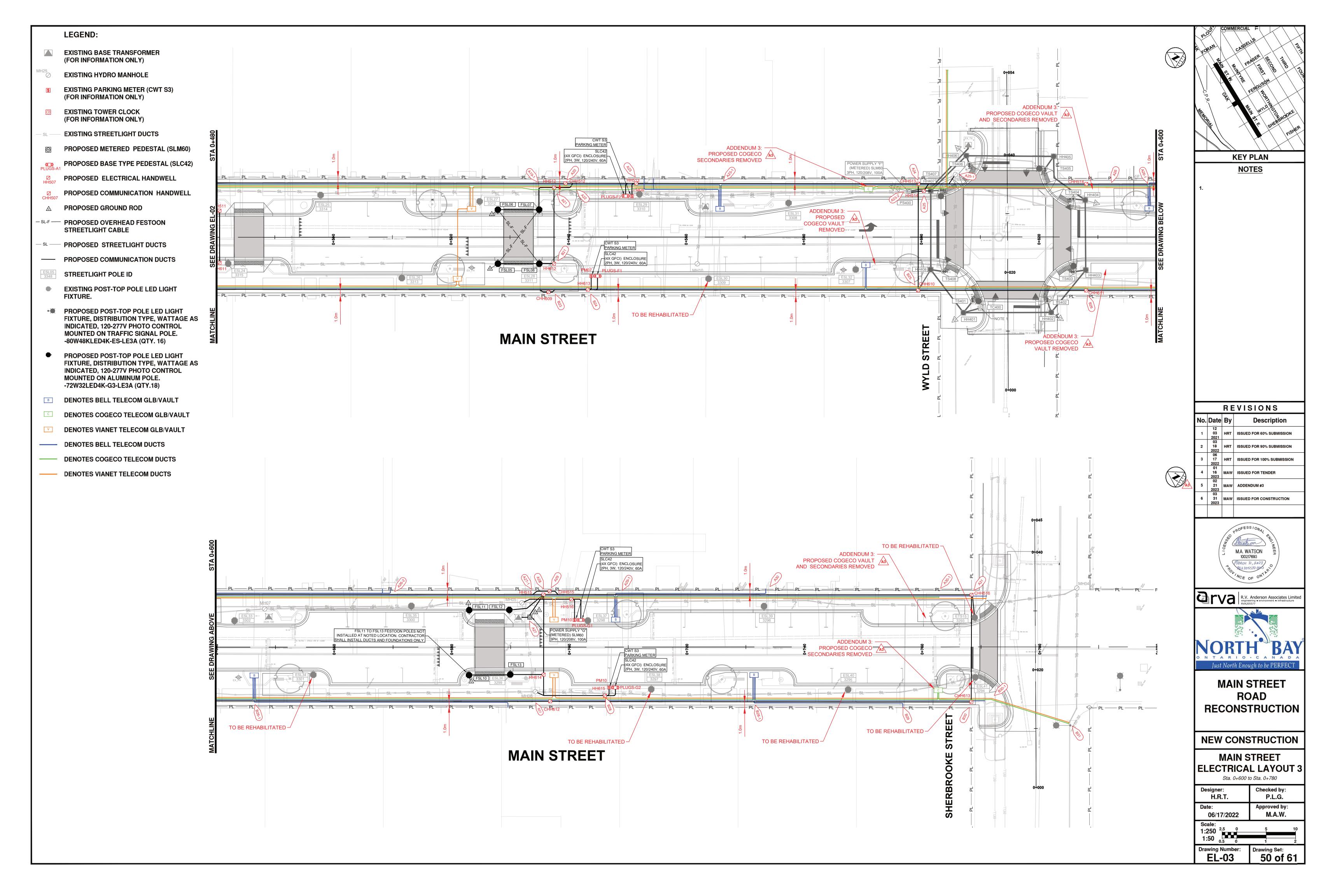
**EXISTING BASE TRANSFORMER (FOR INFORMATION ONLY)** 

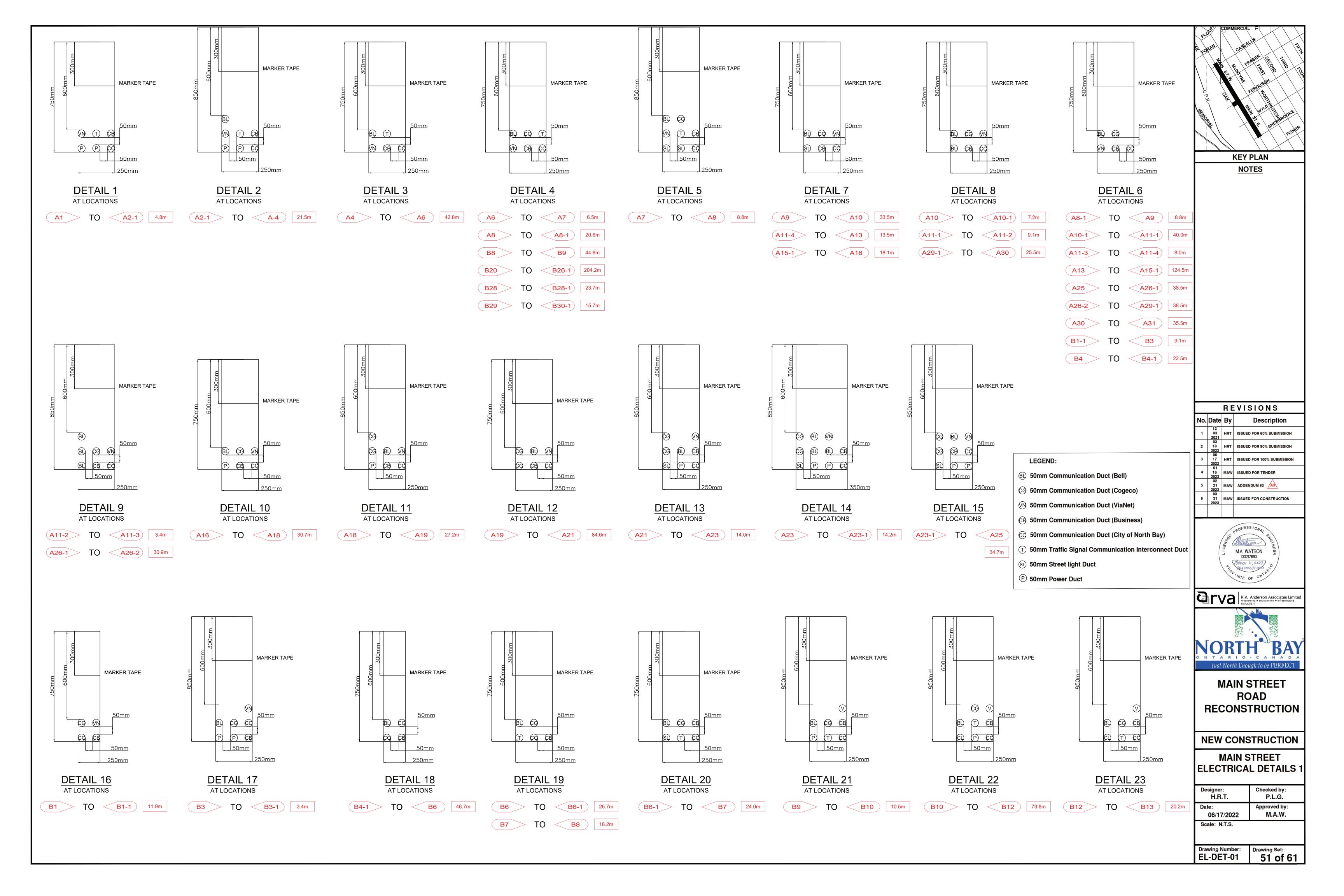
× REMOVAL

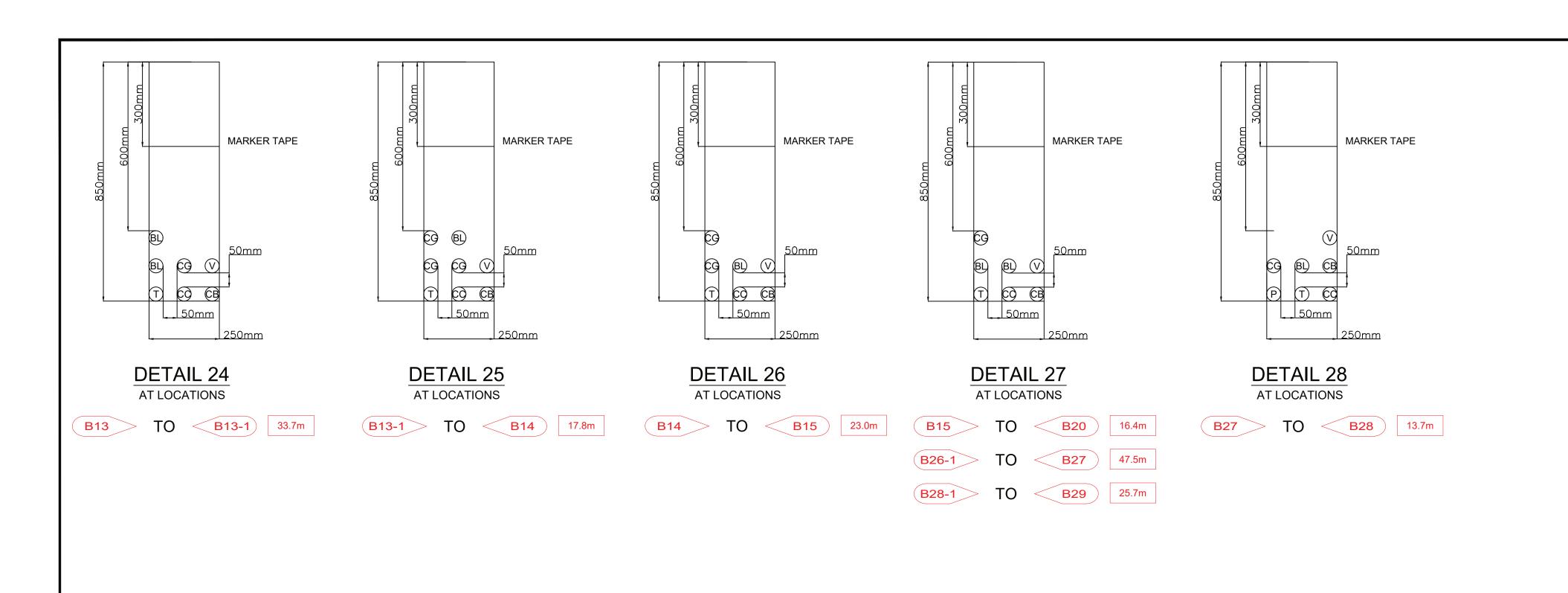
NOTE: ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.

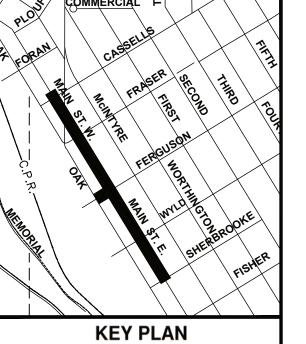












No.	Date	Ву	Description
1	12 03 2021	HRT	ISSUED FOR 60% SUBMISSION
2	03 18 2022	HRT	ISSUED FOR 90% SUBMISSION
3	06 17 2022	HRT	ISSUED FOR 100% SUBMISSION
4	01 16 2023	MAW	ISSUED FOR TENDER

REVISIONS

**⊘** 50mm Communication Duct (ViaNet)

© 50mm Communication Duct (Cogeco)

**BL** 50mm Communication Duct (Bell)

- © 50mm Communication Duct (Business)
- © 50mm Communication Duct (City of North Bay)
- SL 50mm Street light Duct
- P 50mm Power Duct

LEGEND:

6 31 MAW ISSUED FOR CONSTRUCTION Auston M.A. WATSON 100217693 MARCH 31, 2023 RIA 205577 055

R.V. Anderson Associates Limited engineering • environment • infrastructure RVA205577



**MAIN STREET ROAD** RECONSTRUCTION

**NEW CONSTRUCTION** 

**MAIN STREET ELECTRICAL DETAILS 2** 

Checked by:
P.L.G.
Approved by:
M.A.W.

Drawing Set: 52 of 61 Drawing Number: EL-DET-02

Urban LUMEC by §ignify

elegant design.



Urban

ACDR LE2A<sup>2</sup>
Type II (ASYM)
W/globe
LE3A<sup>2</sup>
Type III (ASYM)
W/globe
LE4A<sup>2</sup>
Type IV (ASYM)
W/globe
LE54F

AST<sup>1</sup>
Pre-set driver
for progressive start-up
CDMGE25<sup>1</sup>
8 hrs. 25% reduction
CDMGE50<sup>1</sup>
8 hrs. 50% reduction
CDMGE75<sup>1</sup>
8 hrs. 55% reduction
CDMGE75<sup>1</sup>
Photoelectric cell
FN2<sup>6</sup>
FN1<sup>6</sup>
Decorative arch
Decora

8 hrs, 75% reduction

CDMGM50¹
6 hrs. 50% reduction

CDMGM75¹
6 hrs. 75% reduction

CDMGM75¹
6 hrs. 75% reduction

CDMGS25¹

RCD7⁵
Receptacle 7 pin

DMG
0-10V
OTL¹
Pre-set driver to signal end of life of the lamp

TN3.5
3-1/2" dia. tenon adaptor
WC5
Without cupola

CDMGS25<sup>1</sup> Receptact
4 hrs. 25% reduction RC <sup>4,6</sup>

CDMGSZ5¹
4 hrs. 25% reduction
CDMGSS50¹
4 hrs. 50% reduction
CDMGS75¹
4 hrs. 75% reduction
CDMGS75¹
CDMGS75¹
CDMGS75¹
CDMGS75¹
CDMGP¹
CDCGTative finial
FN96
CDCCrative finial
FN96
CDCCCrative finial
FN96
CDCCrative finial
FN96
CDCCCrative finial
FN9

TN3.5 3-1/2" dia. tenon adaptor

driver, standard

example: AT20-72W32LED3K-G3-ACDR-LE3A-120-DMG-RC-GN8TX

Poles/Brackets Finish

Decorative items
DA
Decorative arches
DC
Decorative cap
FN1°
Decorative finial
FN2°
Decorative finial
FN3°
Decorative finial
FN5°
Decorative finial
FN5°
Decorative finial
FN6°
Decorative finial
FN6°
Decorative finial
FN8°
Decorative finial
FN9°
Decorative finial
FN9°
Decorative finial
FN10°
Decorative finial
FN2°
Decorative finial
FN2°
Decorative finial
FN3°
Decor

GR Gray Sandtex

Natural Aluminum

LUMEC

by §ignify

elegant design.

Ordering guide

AT20 35W32LED3K1 55W32LED3K1 55W48LED3K

72W32LED3K 80W48LED3K

35W32LED4K¹ 55W32LED4K¹ 55W48LED4K 72W32LED4K 80W48LED4K

Lumec Ancestra LED post top luminaires present a new twist on a classic design. By combining the best aspects of past and present forms with the

best that modern technology has to offer, the Ancestra luminaires epitomizes

Lumec's design philosophy beautifully: to combine the best technology with

LE2F Type II (ASYM) w/flat glass lens

What glass lens
LE2S
Type II (ASYM)
W/sag glass lens
LE3F
Type III (ASYM)
W/flat glass lens

LE3S Type III (ASYM) w/sag glass lens

LE4F Type IV (ASYM) w/flat glass lens

LE4S
Type IV (ASYM)
W/sag glass lens
LE5F<sup>3</sup>
Type V (SYMM)
W/flat glass lens

LE5S<sup>3</sup>
Type V (SYMM)
w/sag glass lens

4. Use of photoelectric cell or shorting cap is required to ensure proper illumination.

5. If RCD7 is required you need to select WC without cupola.

The RCD7 is located on top of the roof in place of the cupola for use with a control node.

6. Not available with WC option.

Note: If DALI or 5 or 7 pin receptacle is required contact factory

Not available 347-480 volt.
 Globe Material ACDR is required with this optical system.
 Not available with HS option.

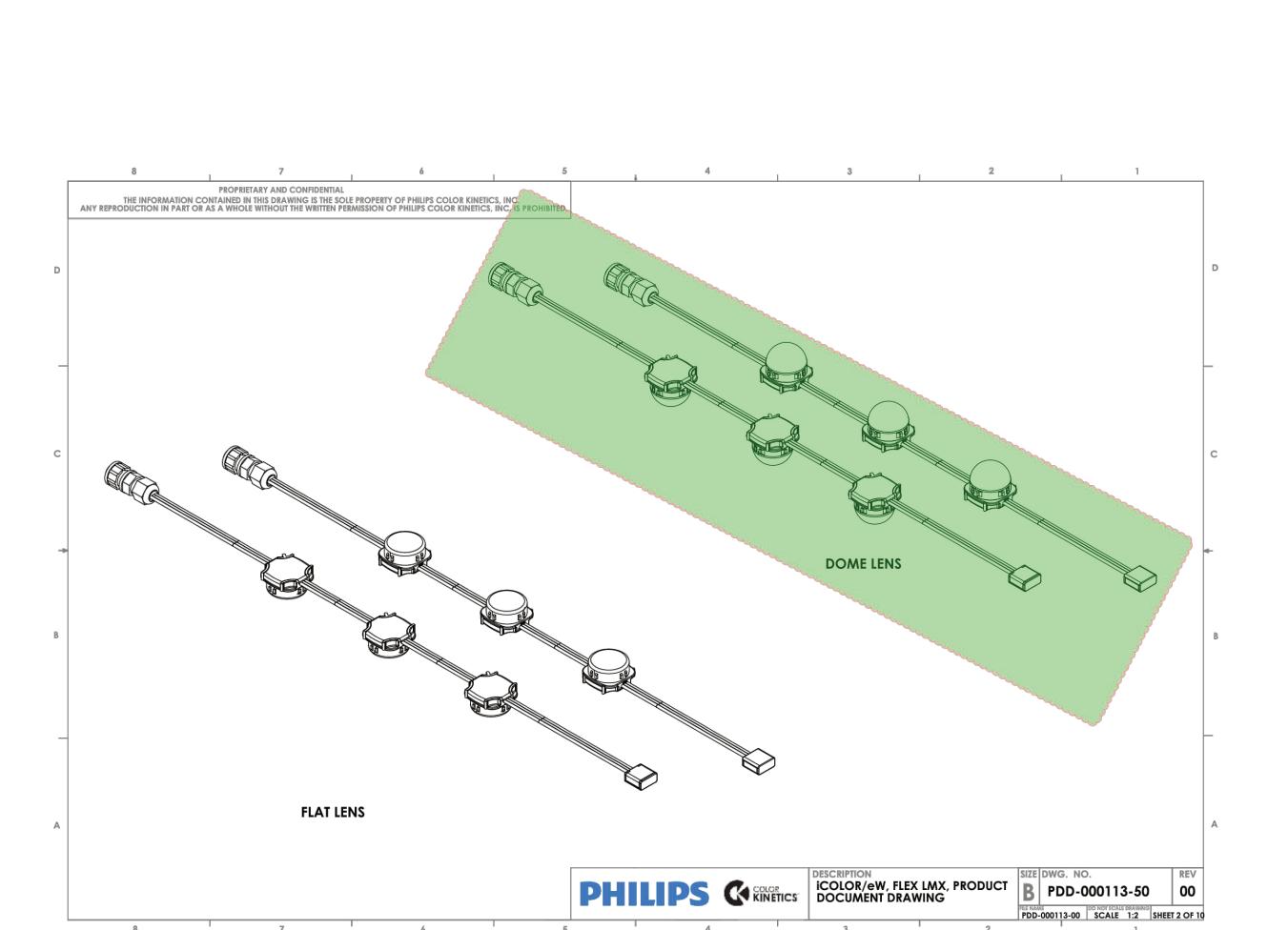
Lumec Ancestra LED post top luminaires present a new twist on a classic design. By combining the best aspects of past and present forms with the best that modern technology has to offer, the Ancestra luminaires epitomizes Lumec's design philosophy beautifully: to combine the best technology with

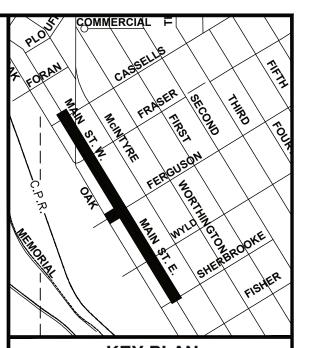
Project:		
Location:		
Cat.No:		
Туре:		
Lamps:	Oty:	

Orde	ring guide						example: AT	20-72W32LED3K-G	3-ACDR-LE3A-12	0-DMG-RC-GN8TX
Series	LED module	Gen.	Globe	Optical system	Voltage	Driver options	Luminaire options		Poles/Brackets	Finish
AT20	72W32LED4K	G3		LE3A	120			]		
AT10 AT20 AT30 AT40	3000K 35W32LED3K¹ 55W32LED3K¹ 55W48LED3K 72W32LED3K 80W48LED3K 4000K 35W32LED4K¹ 55W32LED4K¹ 55W48LED4K 80W48LED4K	63 Gen3	ACDR Acrylic Globe	LE2A <sup>2</sup> Type II (ASYM) w/globe LE3A <sup>2</sup> Type III (ASYM) w/globe LE4A <sup>2</sup> Type III (ASYM) w/globe LE2F Type II (ASYM) w/globe LE2F Type II (ASYM) w/flat glass lens LE2S Type III (ASYM) w/sag glass lens LE3F Type III (ASYM) w/flat glass lens LE4F Type IV (ASYM) w/flat glass lens LE4F Type IV (ASYM) w/flat glass lens LE4S Type IV (ASYM) w/sag glass lens LE4F Type IV (ASYM) w/sag glass lens LE4F Type IV (SYMM) w/sag glass lens LE5F <sup>3</sup> Type V (SYMM) w/flat glass lens LE5S <sup>3</sup> Type V (SYMM) w/sag glass lens	120 208 240 277 347 480	AST¹ Pre-set driver for progressive start-up CDMGE25¹ 8 hrs. 25% reduction CDMGE75¹ 8 hrs. 75% reduction CDMGM25¹ 6 hrs. 25% reduction CDMGM50¹ 6 hrs. 50% reduction CDMGM50¹ 6 hrs. 50% reduction CDMGM55¹ 4 hrs. 75% reduction CDMGS25¹ 4 hrs. 50% reduction CDMGS25¹ 4 hrs. 50% reduction CDMGS50¹ 4 hrs. 50% reduction CDMGS50¹ 7 hrs. 50% reduction CDMGS75¹ Pre-set driver to manage lumen depreciation DMG 0-10V OTL¹ Pre-set driver to signal end of life of the lamp	CPT <sup>6</sup> Copper cupola CPTC <sup>6</sup> Varnished copper cupola HS House side shield PH8 <sup>6</sup> Photoelectric cell PH9 <sup>6</sup> Shorting cap PHXL <sup>6</sup> Photoelectric cell, extended life RCD <sup>3</sup> Receptacle 7 pin RC <sup>4,5</sup> Receptacle 3-pins SP2 (optional) 20kV/20kA surge protector TN2.875C 2-7/8" dia. tenon adaptor TN3.3" dia. tenon adaptor TN3.5 3-1/2" dia. tenon adaptor WC <sup>3</sup> Without cupola SRD <sup>1</sup> Sensor ready	Decorative items  DA  Decorative arches  DC  Decorative cap  FN1 <sup>6</sup> Decorative finial  FN2 <sup>6</sup> Decorative finial  FN3 <sup>6</sup> Decorative finial  FN5 <sup>6</sup> Decorative finial  FN6 <sup>6</sup> Decorative finial  FN8 <sup>6</sup> Decorative finial  FN9 <sup>6</sup> Decorative finial  FN9 <sup>6</sup> Decorative finial  FN9 <sup>6</sup> Decorative finial  FN10 <sup>6</sup> Decorative finial	Consult with Signify.com/ luminaires for details and the complete line of poles and brackets.	Textured BE2TX Midnight Blue BE6TX Ocean Blue BE8TX Royal Blue BG2TX Sandstone BKTX Black BRTX Black BRTX Blue Green GN4TX Blue Green GN6TX Corean Green GN8TX Dark Forest Green GN8TX Burgundy RD2TX Burgundy RD4TX Scarlet WHTX White Other GR GRAY GRAY GRAY GRAY GRAY GRAY GRAY G
2. Globe 3. Not at 4. Use o 5. If RCD The R 6. Not at	vailable with HS of f photoelectric co 17 is required you CD7 is located on vailable with WC	require option. ell or sho need to top of t option.	orting cap select W he roof in	is optical system, is required to ens C without cupola. In place of the cupor uired contact factor	la for use	r illumination. with a control node.	driver, standard configuration SRD1¹ Sensor ready driver, alternate configuration			NP Natural Aluminum TG Hammertone Gold

AT10-AT20-AT30-AT40-Ancestra-LED-spec 04/21 page 1 of 5 AT10-AT20-AT30-AT40-Ancestra-LED-spec 04/21 page 1 of 5

8	7	6	5	4	3	2	1	<u> </u>
			•			REVISIONS		
				REV.		DESCRIPTION	DATE	APPROVED
				00	009740	INITIAL RELASE	3/4/2015	E.ACOSTA
		31.76 [1.25] 31.45 [1.24]	*N	ODE SPACING	16.20 [.64]	16.70		
Ø 18.00 [.71]			FLAT LENS			7.90 [.31]	6]	<b>1</b>
			DOME LENS			28.17 [1.11]		R14.47 [.57]
		The second secon		PIN 2	∕−PIN 1	and the second of the second o		
NODE SPACING:  N ADDITION TO STANDARD  OF 4" AND 12" ON-CENTER,  ANY ON-CENTER NODE SPA  "TO 24", IN ENGLISH OR MI  NOTE: 65 NODE MAXIMUM  ON-CENTER NODE SPACING	YOU CAN SPECIFY ACING FROM ETRIC UNITS. I PER STRAND AT G OF 18" - 24".			DETAIL A SCALE 1	PIN 3 <b>A</b> : 1			
THE INFORMATION CONTAINED IN THE SOLE PROPERTY OF PHILIPS COLL ANY REPRODUCTION IN PART OF WITHOUT THE WRITTEN PERMISSION CKINETICS, INC. IS PROHIB	R AS A WHOLE   PHILIPS	COLOR KINETICS, INC. www.philips.com ngton Woods Dr. Burlington MA 01803 : 888-385-5742 FAX: 617-338-0454	SRAWN DATE	-UNLESS OTHERWISE SPECIFIED- DIMENSIONS ARE IN MILLIMETERS [INCHES] ITERPRET GEOMETRIC TOLERANCING PER: ANSI Y14.5M  TOLERANCES ANGLE PROJECTION  THIRD ANGLE PROJECTION  ANGLE PROJECTION  LEAST SPECIFIED- ANGLE	DESCRIPTION ICOLOR/eW, FLEX L DOCUMENT DRAWI	NG DIE	D-000113-4 3-00   SCALE 1:2	

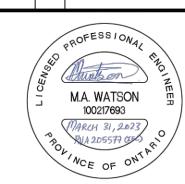




**KEY PLAN NOTES** 

REVISIONS

No.	Date	Ву	Description
1	12 03 2021	HRT	ISSUED FOR 60% SUBMISSION
2	03 18 2022	HRT	ISSUED FOR 90% SUBMISSION
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4	01 16 2023	MAW	ISSUED FOR TENDER
5	03 31	MAW	ISSUED FOR CONSTRUCTION





**MAIN STREET ROAD** RECONSTRUCTION

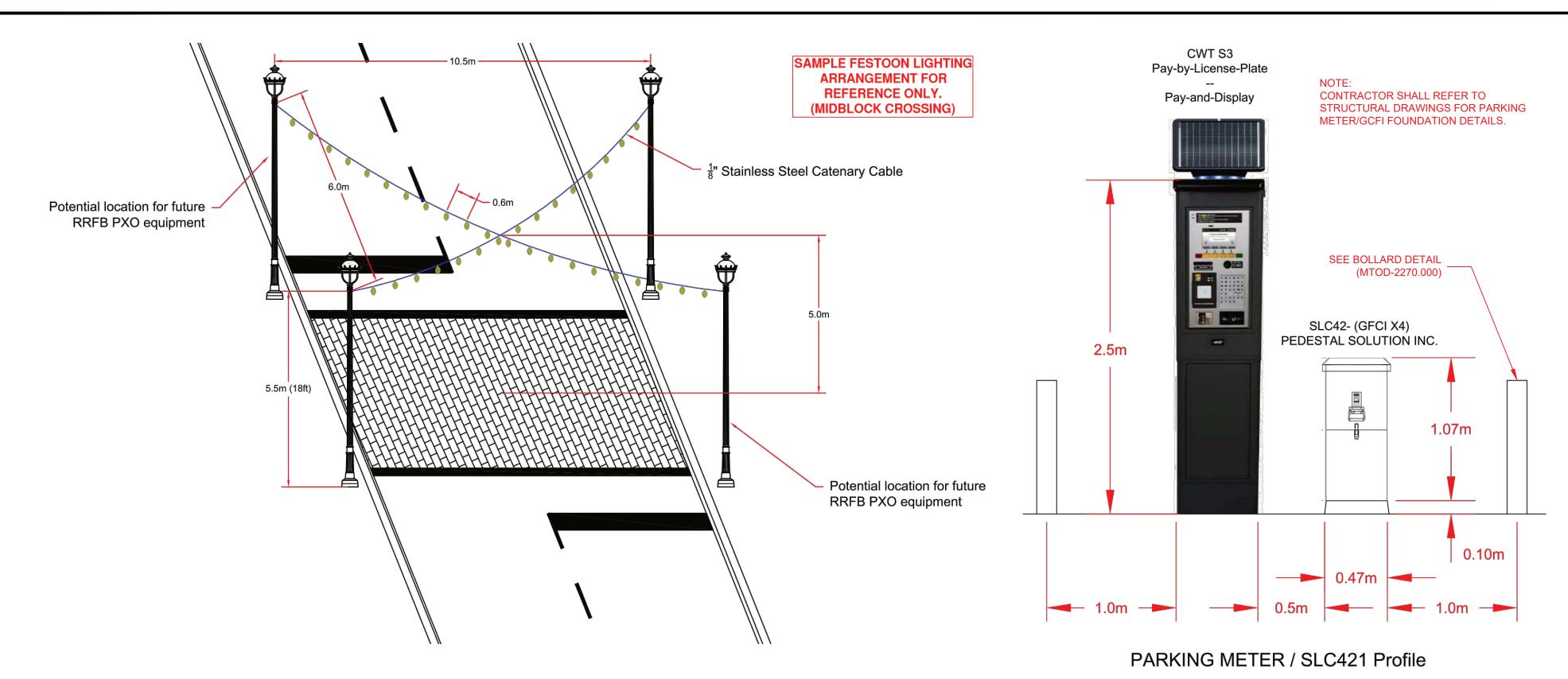
Just North Enough to be PERFEC

**NEW CONSTRUCTION** 

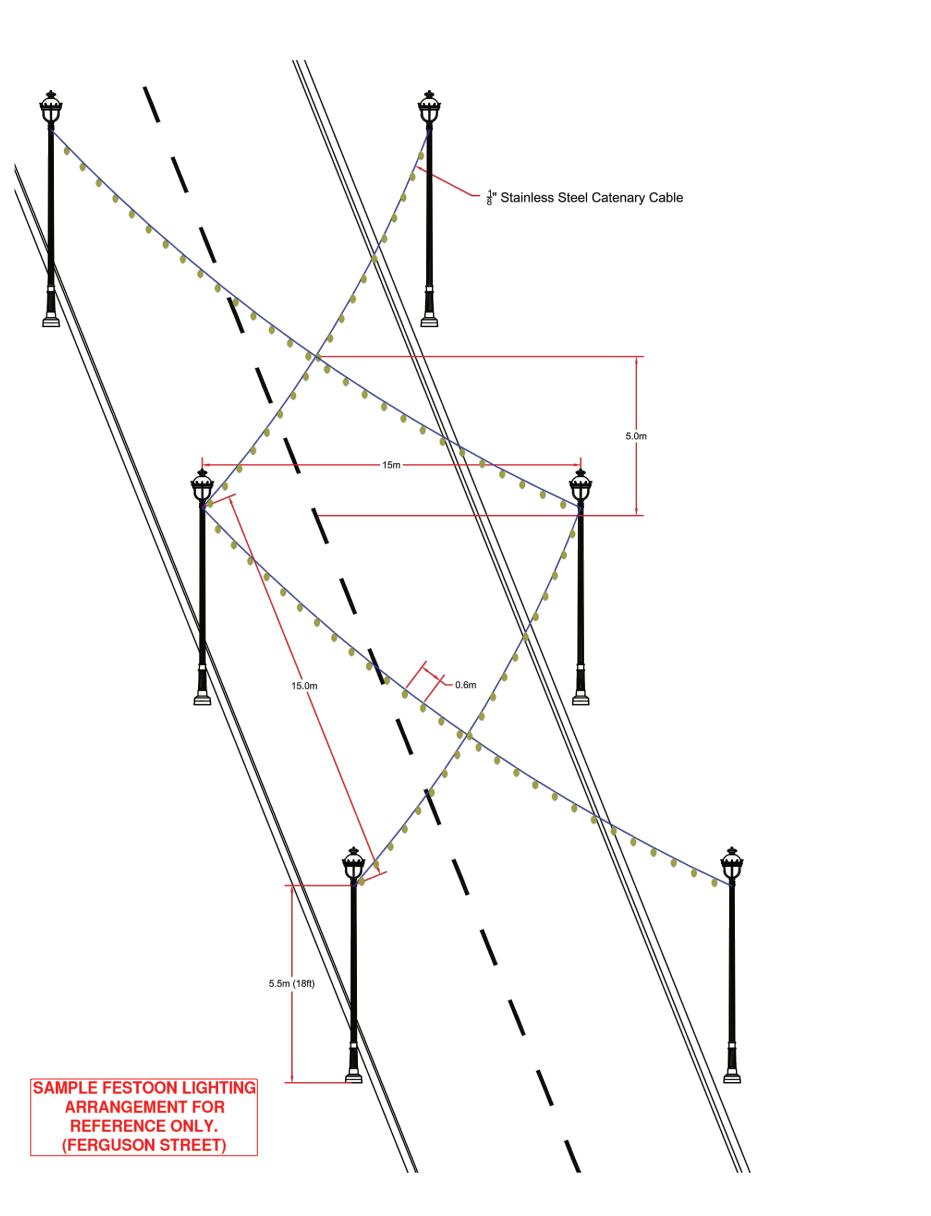
**MAIN STREET ELECTRICAL DETAILS 3** 

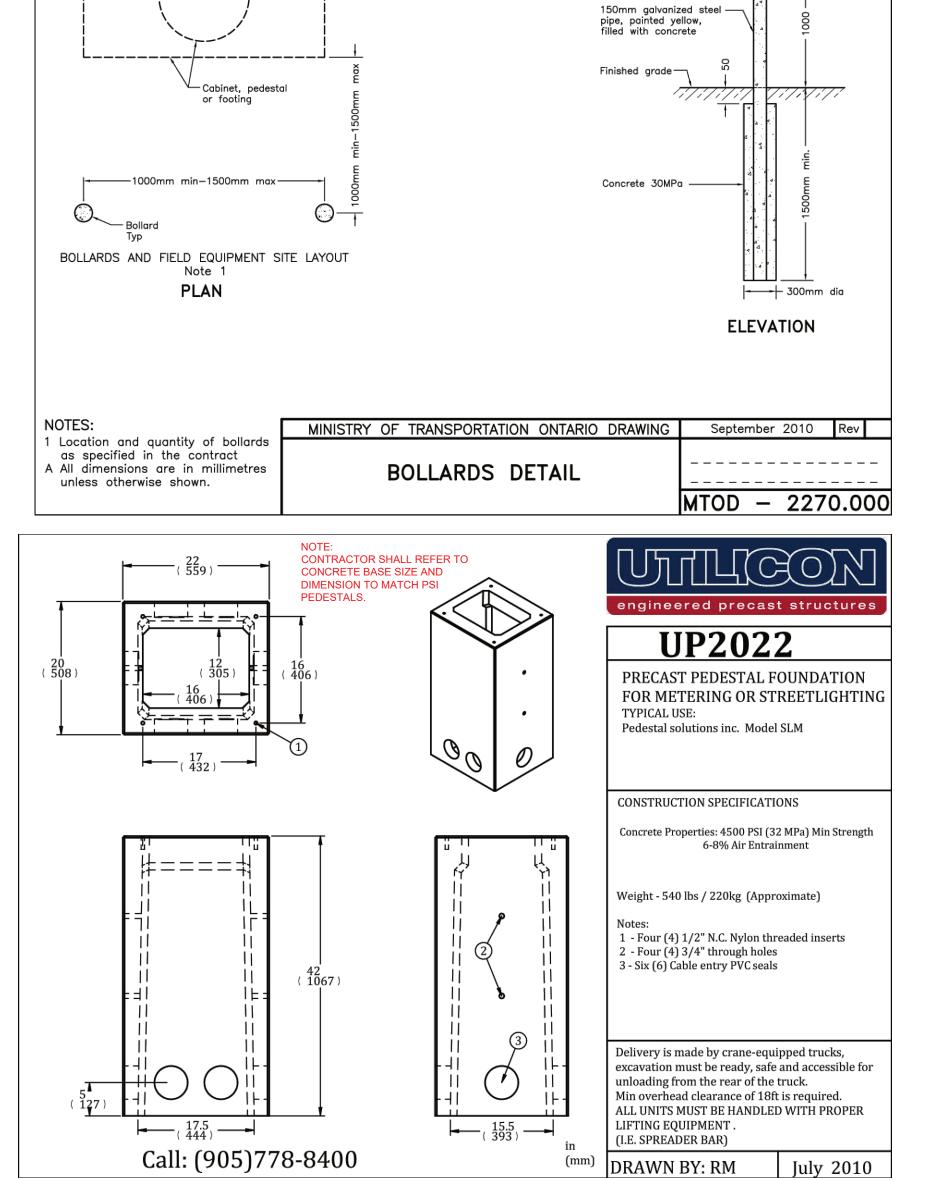
Designer: H.R.T.	Checked by: P.L.G.
Date: 06/17/2022	Approved by: M.A.W.
Scale: N.T.S.	

Drawing Number: Drawing Set: 53 of 61



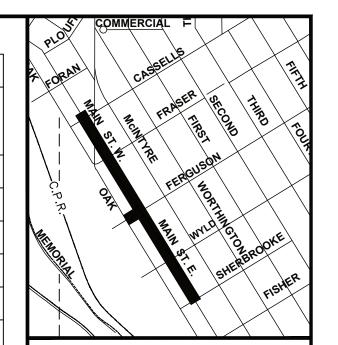
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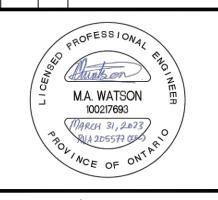
DRAWN BY: RM

	REHABILITATED POLE FOUNDATIONS							
DOLE NO	DOLE NO	DOLE NO		LOCATION	ВА	SE		
POLE NO. EL DWG	POLE NO. NBH DWG	POLE NO. R DWG	ROAD	STATION	CONC. BASE	FRANG. BASE	COORD	REMARKS
ESL03	3350	H40	MAIN ST W	0+055.5	YES	-	N - 5 129 985.283 E - 618 068.757	REFER TO DWG D-6
ESL05	3348	H41	MAIN ST W	0+079.4	YES	-	N - 5 129 964.995 E - 618 081.597	REFER TO DWG D-6
ESL10	3333	H54	MAIN ST W	0+242.2	YES	-	N - 5 129 836.547 E - 618 163.546	REFER TO DWG D-6
ESL20	3323	H69	MAIN ST W	0+390.0	YES	-	N - 5 129 704.456 E - 618 250.302	REFER TO DWG D-6
ELS30	3309	H68	MAIN ST W	0+563.7	YES	-	N - 5 129 556.448 E - 618 341.066	REFER TO DWG D-6
ESL34	3301	H74	MAIN ST W	0+656.3	YES	-	N - 5 129 479.496 E - 618 392.726	REFER TO DWG D-6
ESL38	3297	H70	MAIN ST W	0+714.0	YES	-	N - 5 129 429.719 E - 618 421.457	REFER TO DWG D-6
ESL40	3295	H77	MAIN ST W	0+747.3	YES	-	N - 5 129 401.446 E - 618 439.305	REFER TO DWG D-6
ESL41	3294	H78	MAIN ST W	0+768.9	YES	-	N - 5 129 384.255 E - 618 452.700	REFER TO DWG D-6
ETS15	3293	H1	MAIN ST W	0+768.9	YES		N - 5 129 389.821 E - 618 461.175	REFER TO DWG D-6



**KEY PLAN NOTES** 

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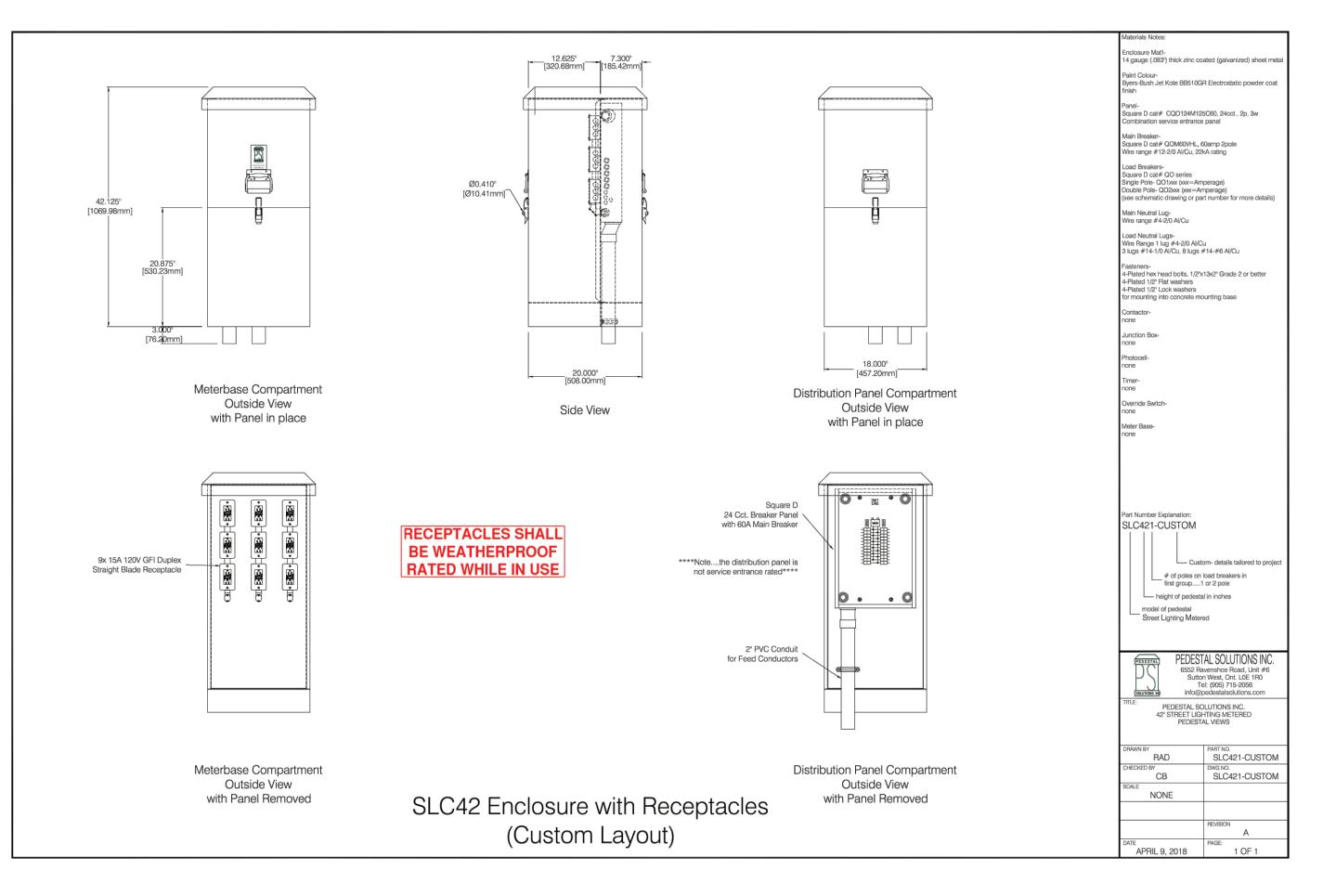
**MAIN STREET ROAD RECONSTRUCTION** 

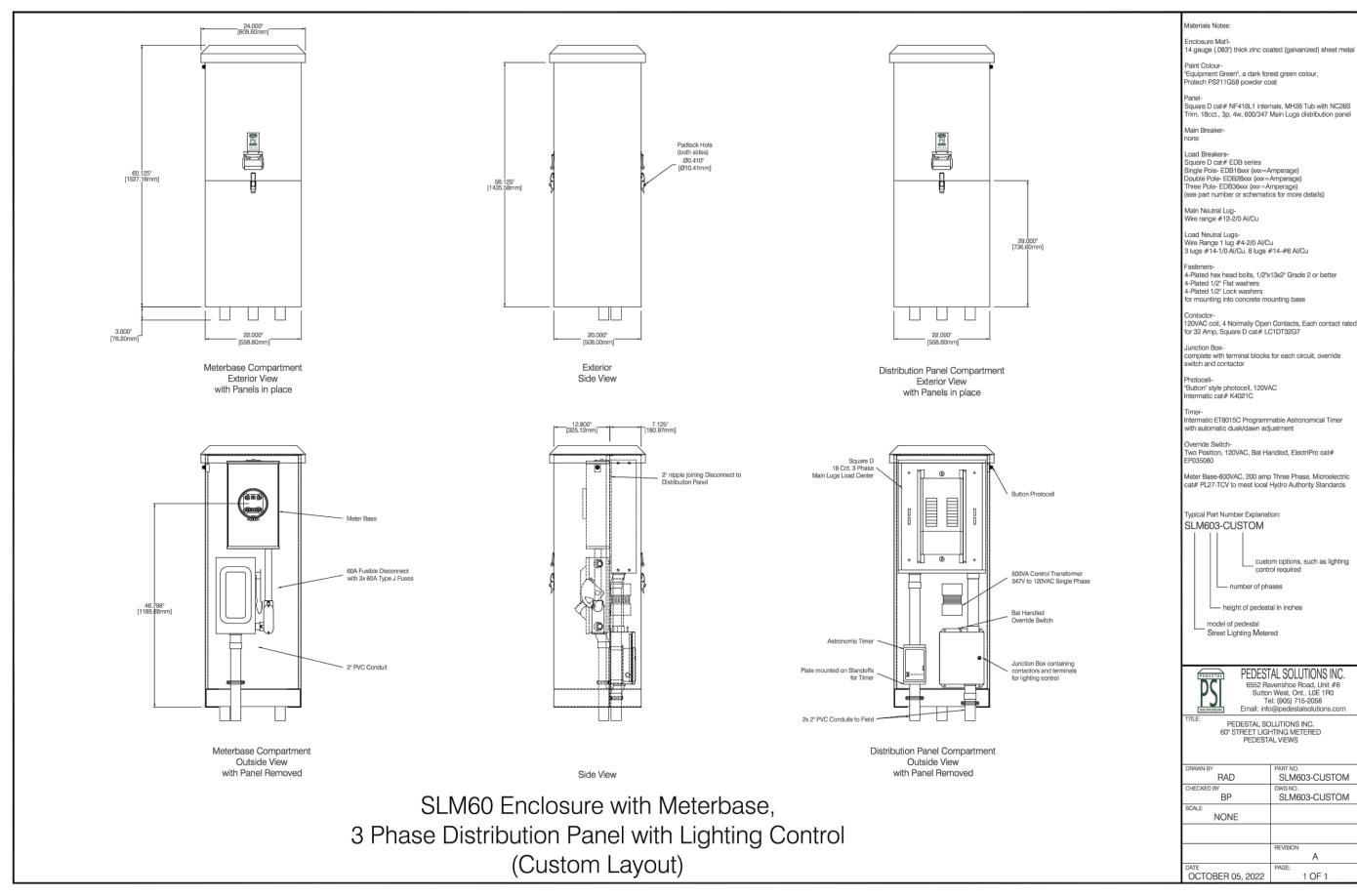
**NEW CONSTRUCTION** 

**MAIN STREET** ELECTRICAL DETAILS 4

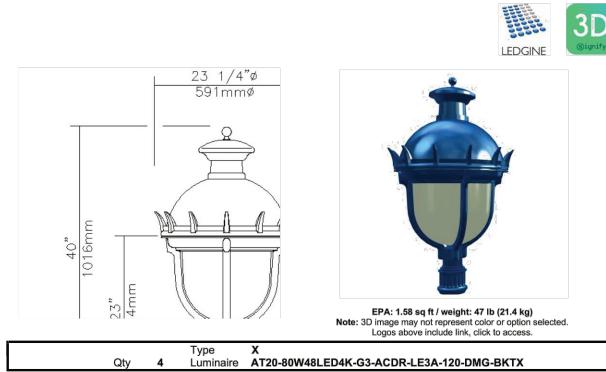
Designer: H.R.T.	Checked by: P.L.G.
Date: 06/17/2022	Approved by: M.A.W.
Scale: N.T.S.	

Drawing Number: Drawing Set: 54 of 61









**Description of Components:** 

Finial: Decorative cast 356 aluminum, mechanically assembled.

Cupola: Decorative spun aluminum 1100-0, mechanically mounted on hood.

Hood: Spun aluminum 1100-0 dome, mechanically assembled on the luminaire with a cast aluminum 356 decorative crown. Guard: In a round shape with 4 arms, this guard is a one-piece cast aluminum 356 welded to the fitter.

Access-Mechanism: A die cast A360 aluminum technical ring with latch and hinge. The mechanism shall offer tool-free access to the inside of the luminaire. An embedded memory-retentive gasket shall ensure weatherproofing.

Light Engine: LEDgine composed of 5 main components: Globe / LED Module / Optical System / Heat Sink / Driver Electrical components are RoHS compliant.

Heat Sink: Made of cast aluminum optimising the LEDs efficiency and life. Product does not use any cooling device with moving parts (only passive cooling device).

Globe: (ACDR), Made of one-piece seamless injection-molded impact-resistant (DR) acrylic having an inner prismatic surface. The globe is mechanically assembled and sealed onto the lower part of the heat sink.

LED Module: Composed of 48 high-performance white LEDs. Color temperature as per ANSI/NEMA bin Neutral White, 4000 Kelvin nominal (3985K +/- 275K or 3710K to 4260K), CRI 70 Min. 75 Typical.

Optical System: (LE3A), IES type III (asymmetrical). Composed of high-performance optical grade PMMA acrylic refractor-

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### City of North Bay Downtown Poles (0400686293) (80228)

02-23-2022 Page 2 / 5

lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. Optical system is rated IP66. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. Street side indicated.

Driver: High power factor of 90% minimum. Electronic driver, operating range 50/60 Hz. Auto-adjusting universal voltage input from 120 to 277 VAC rated for both application line to line or line to neutral, Class 1, THD of 20% max. Maximum ambient operating temperature from -40F(-40C) to 130F(55C) degrees. **Driver comes with dimming compatible** 

Driver Options: (DMG), Dimming compatible 0-10 volts. For applicable warranty, certification and operation guide see

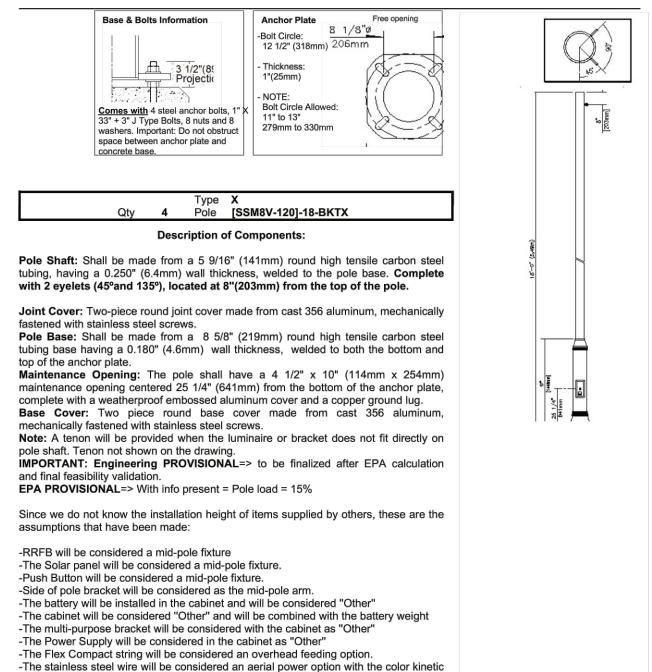
The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built-in driver surge protection of 2.5kV (min).

Lumec dimmable luminaire specification document for unapproved device installed by other. To get document, click on this or go on web site on this address: https://www.signify.com/b-dam/signify/en-us/brands/lumec/Lumec-un-approved-control-device-installed-by-others-7\_d.pdf

Surge Protector: Surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid-State Street Lighting Consortium) model specification for LED roadway luminaires electrical immunity requirements for High Test Level 10kV / 10kA.

Fitter: Cast aluminum 356 c/w 4 set screws 3/8-16 UNC. Fits on a 4"(102mm) outside diameter by 4"(102mm) long tenon.

# City of North Bay Downtown Poles (0400686293) (80228)



City of North Bay Downtown Poles (0400686293) (80228)

Wiring: Gauge (#14) TEW/AWM 1015 or 1230 wires, 6" (152mm) minimum exceeding from luminaire.

Hardware: All exposed screws shall be complete with Ceramic primer-seal basecoat to reduce seizing of the parts and offers a high resistance to corrosion. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or

Anchor Bolts: Anchor bolts made of ASTM F1554 grade 55 steel with a minimum yield strength of 55,000 psi. Nuts made of ASTM F1554-99 grade A steel or better. The thread adjustment is ANSI class 2B regardless of the diameter of the bolts. Washers made of ASTM grade F-844 steel or better. All galvanized parts are hot-dip galvanized with minimum requirement the ACNOR G-164 standard.

Finish: Color to be black textured RAL9005TX (BKTX) and in accordance with the AAMA 2603 standard. Application of polyester powder coat paint (4 mils/100 microns) with ± 1 mils/24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard.

The surface treatment achieves a minimum of 2000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard.

LED products manufacturing standard: The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with IEC61340-5-1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

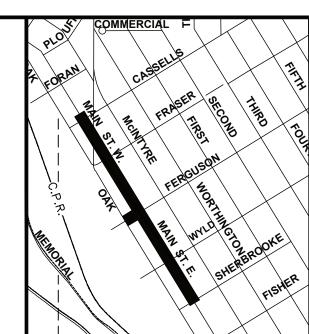
Quality Control: The manufacturer must provide a written confirmation of its ISO 9001-2008 and ISO 14001-2004 International Quality Standards Certification.

Mechanical resistance: This design information is intended as a general guideline only. The customer is solely responsible for proper selection of pole, luminaire, accessories and foundation under the given site conditions and intended usage. The addition of any other item to the pole may dramatically impact the wind load on that pole. It is strongly recommended that a qualified professional be consulted to analyze the loads given the user's specific needs to ensure proper selection of the pole, luminaire, accessories, and foundation. Lumec assumes no responsibility for such complete analysis or product selection. Failure to insure proper site analysis, pole selection, loads and installation can result in pole failure, leading to serious injury or property damage.

Web site information details: / cULus Certification / CSA Pole Certification

02-23-2022 Page 4 / 5

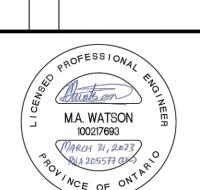
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**KEY PLAN NOTES** 

## REVISIONS

No.	Date	Ву	Description
1	12 03 2021	HRT	ISSUED FOR 60% SUBMISSION
2	03 18 2022	HRT	ISSUED FOR 90% SUBMISSION
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4	01 16 2023	MAW	ISSUED FOR TENDER
5	03 31 2023	MAW	ISSUED FOR CONSTRUCTION





**MAIN STREET RECONSTRUCTION** 

**NEW CONSTRUCTION** 

**MAIN STREET |ELECTRICAL DETAILS 5** 

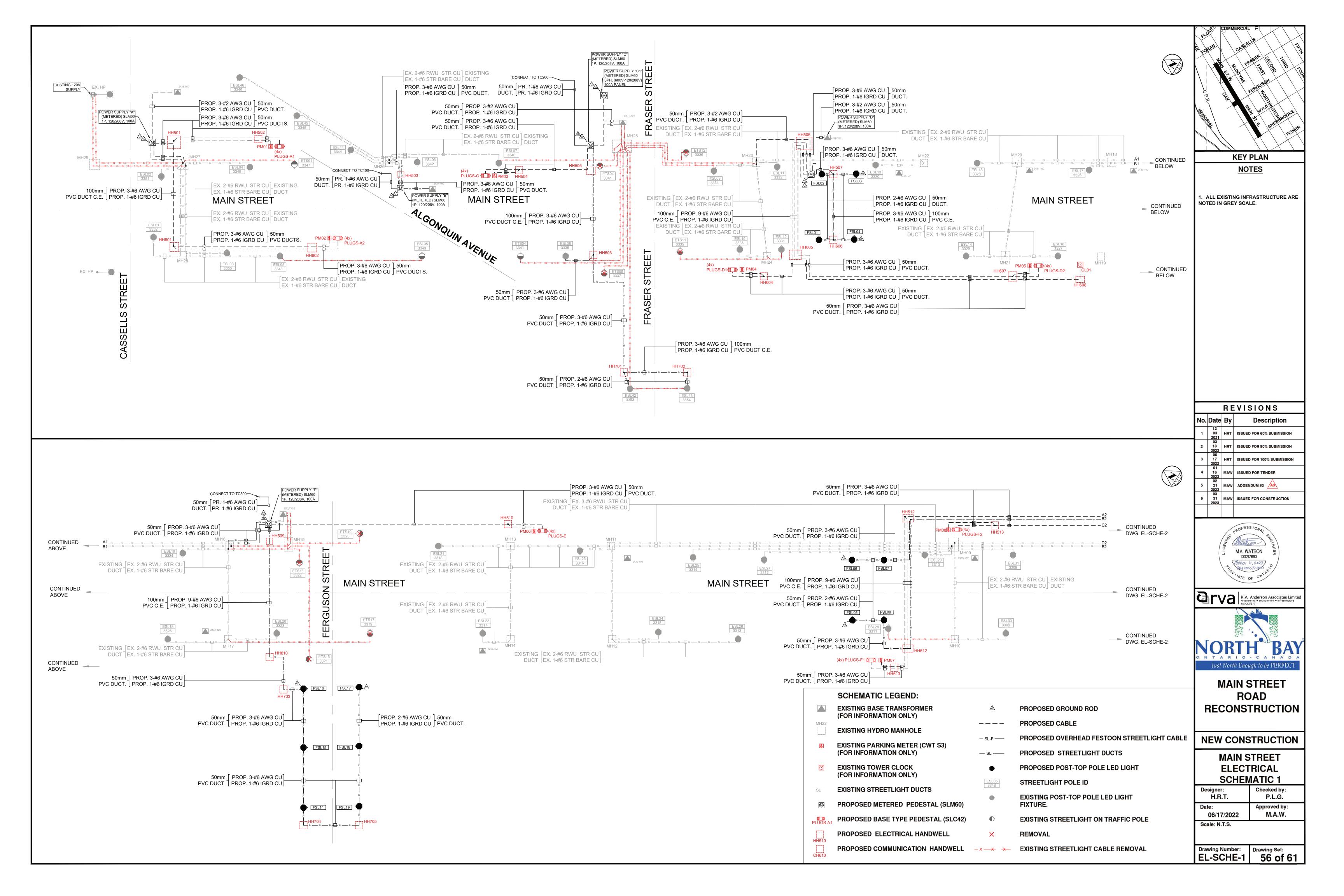
Designer:	Checked by:
H.R.T.	P.L.G.
Date: 06/17/2022	Approved by: M.A.W.

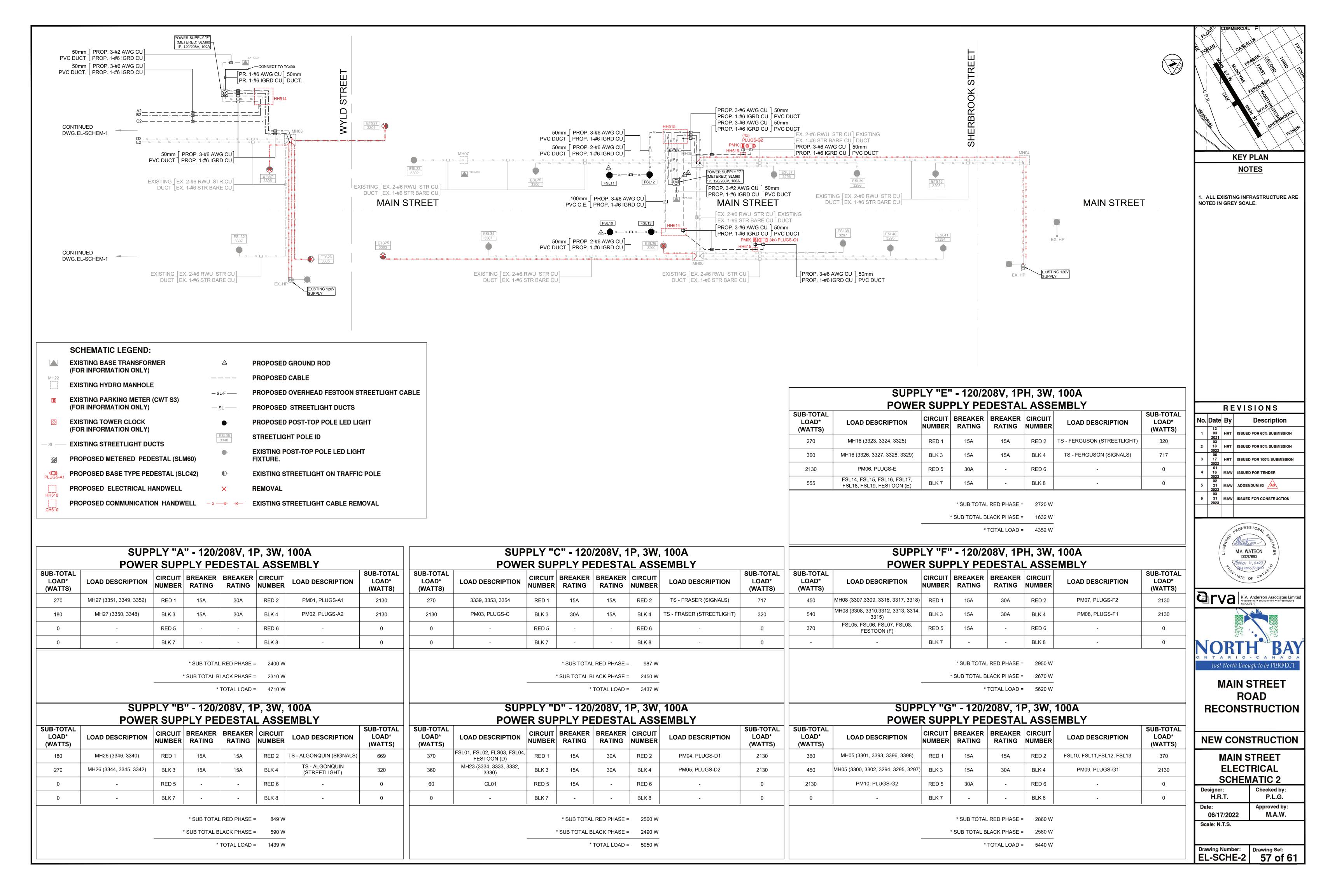
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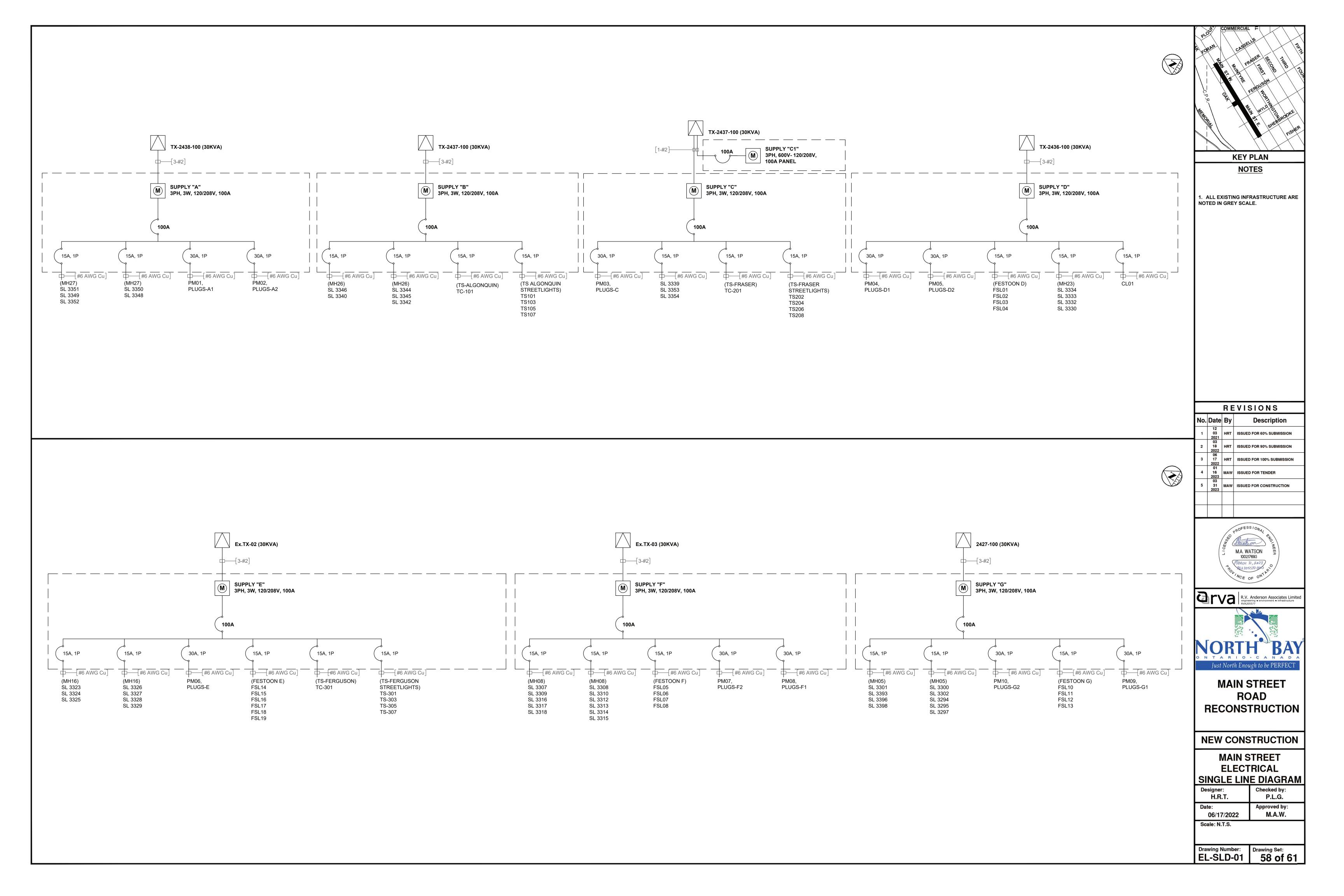
Drawing Number: Drawing Set: EL-DET-05 55 of 61

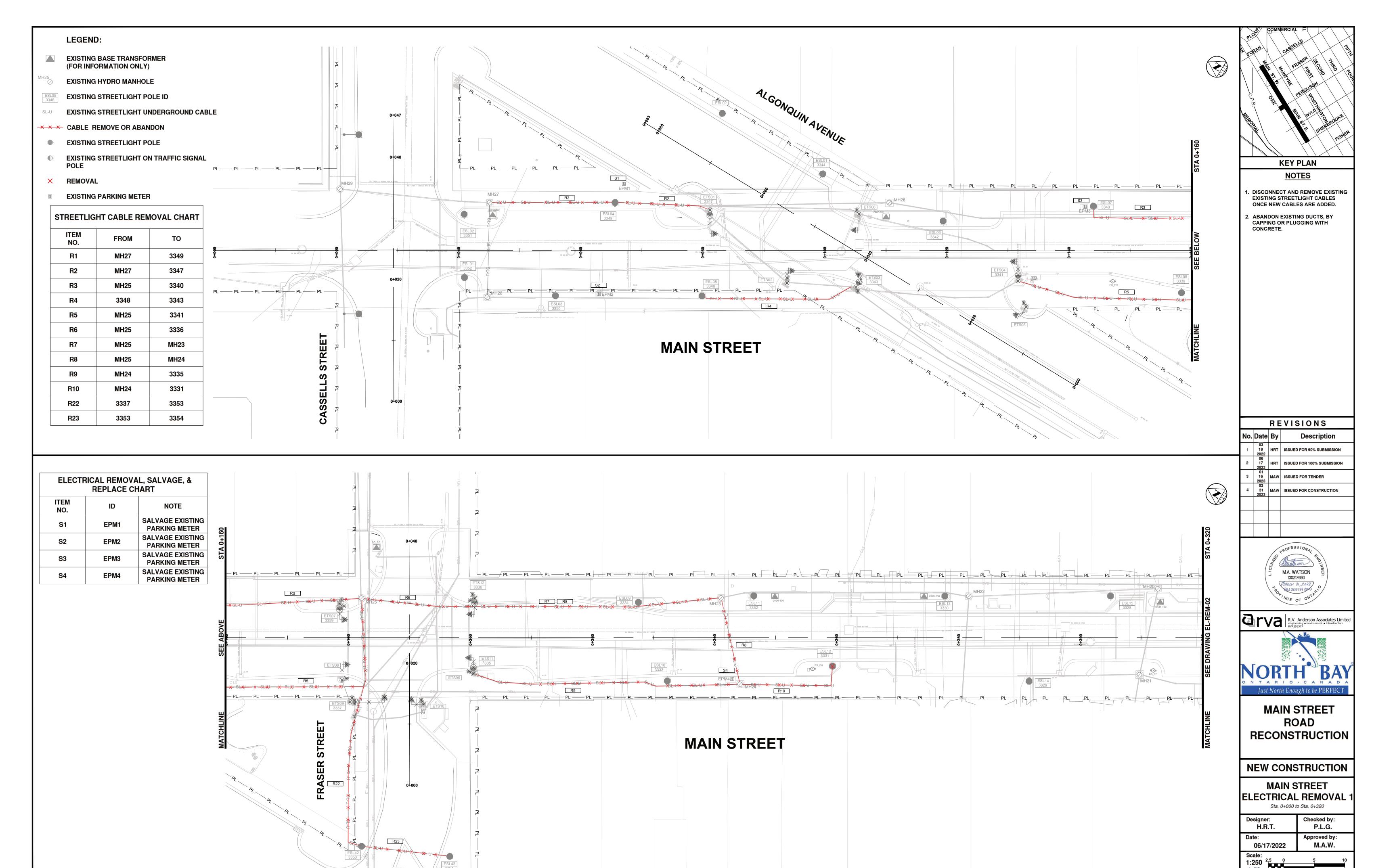
02-23-2022 Page 3 / 5

Pole Weight: 261 lbs (118.6 kg)









Drawing Number: Drawing Set: 59 of 61

