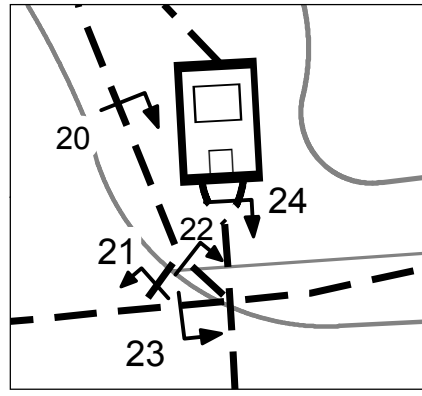
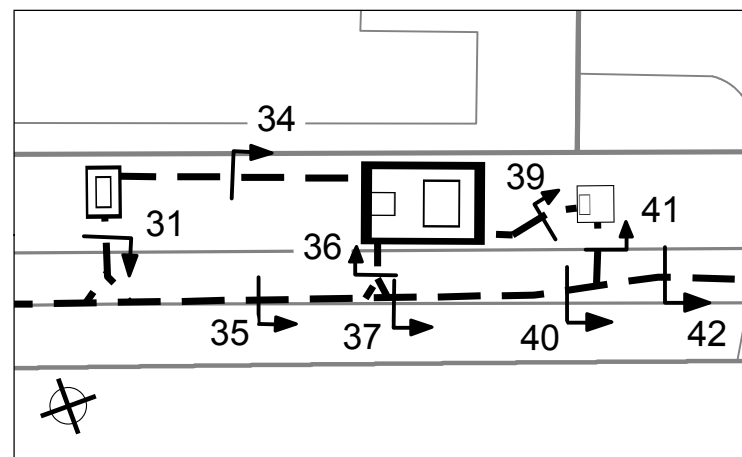


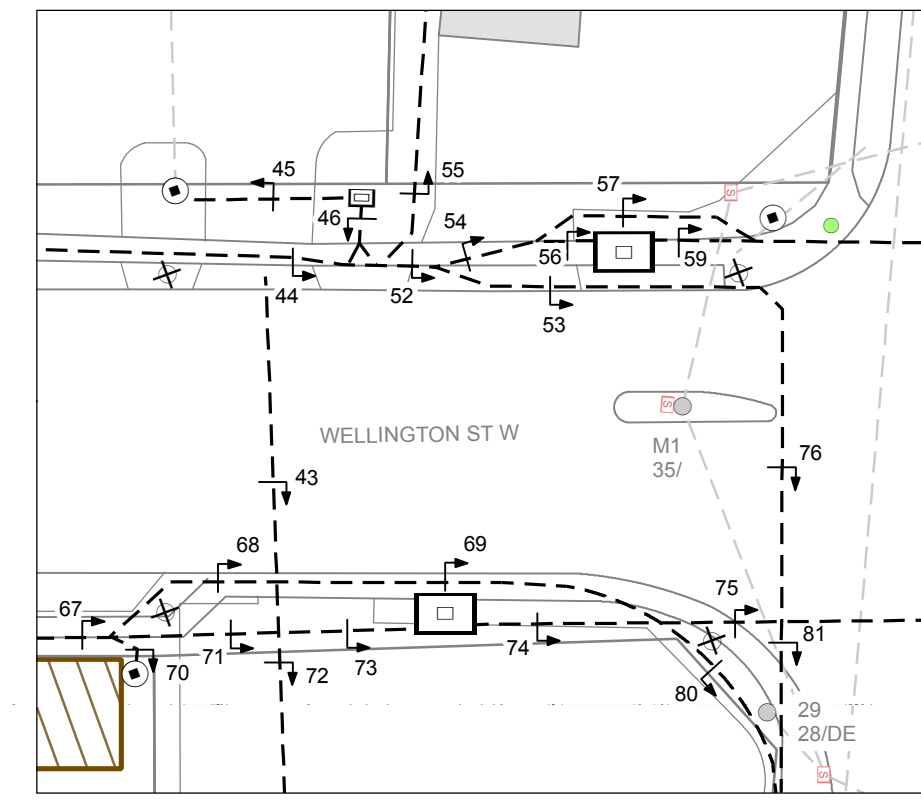
DETAIL A  
1:250



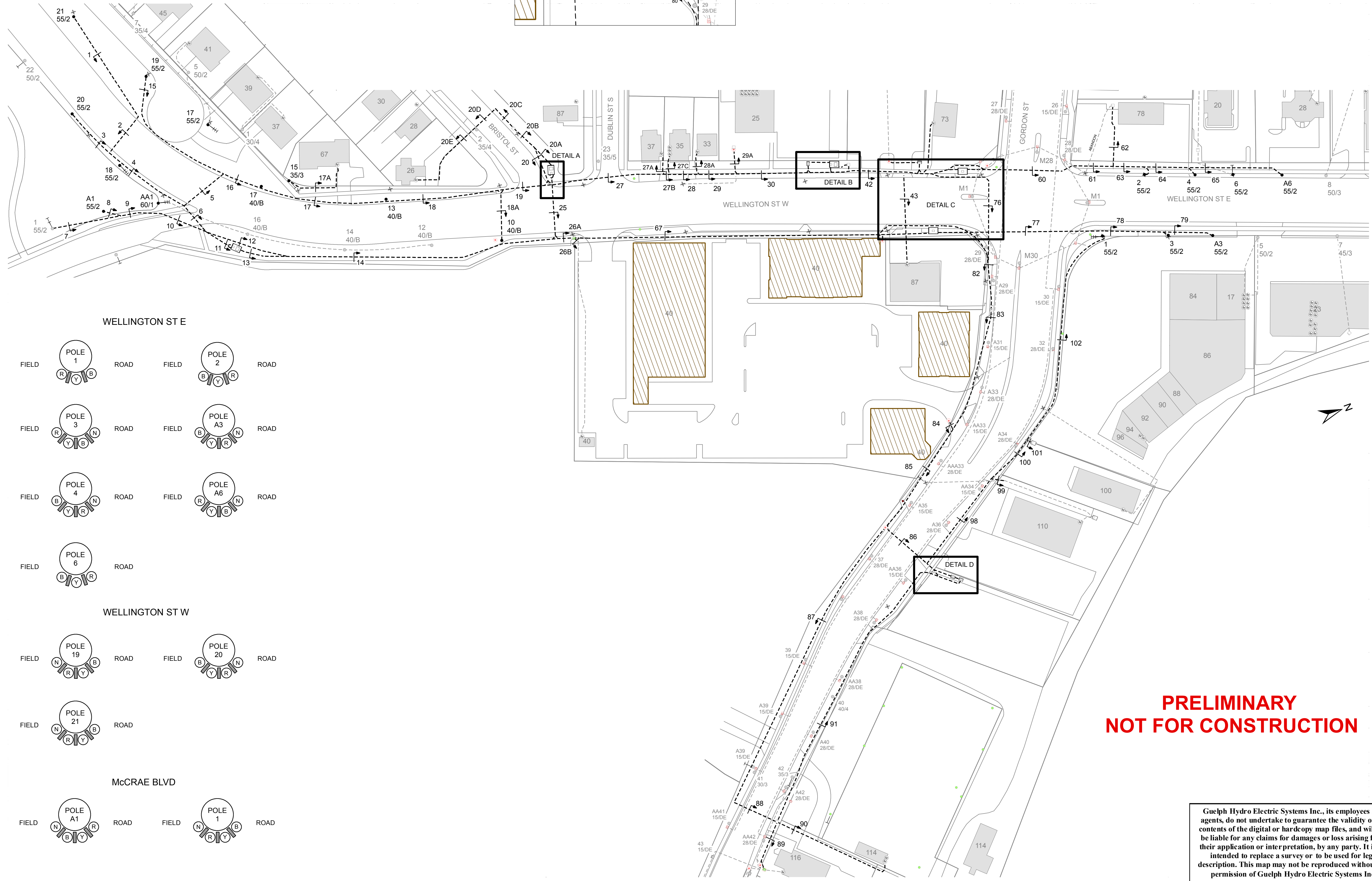
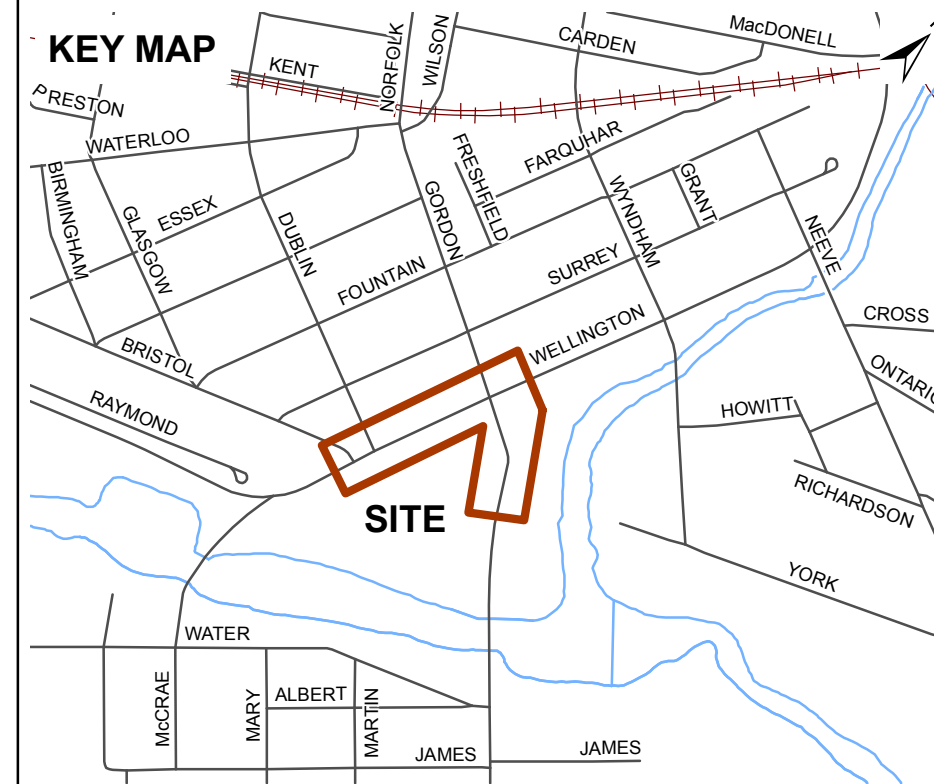
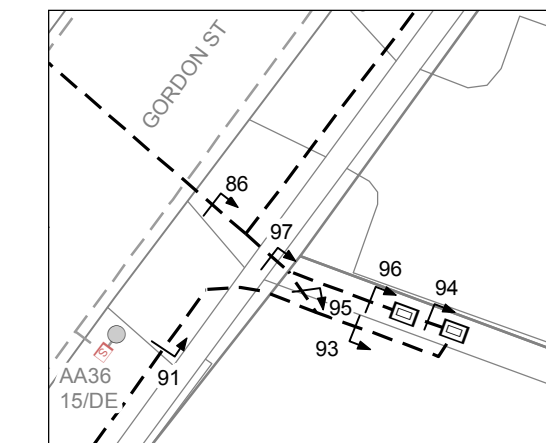
DETAIL B  
1:250



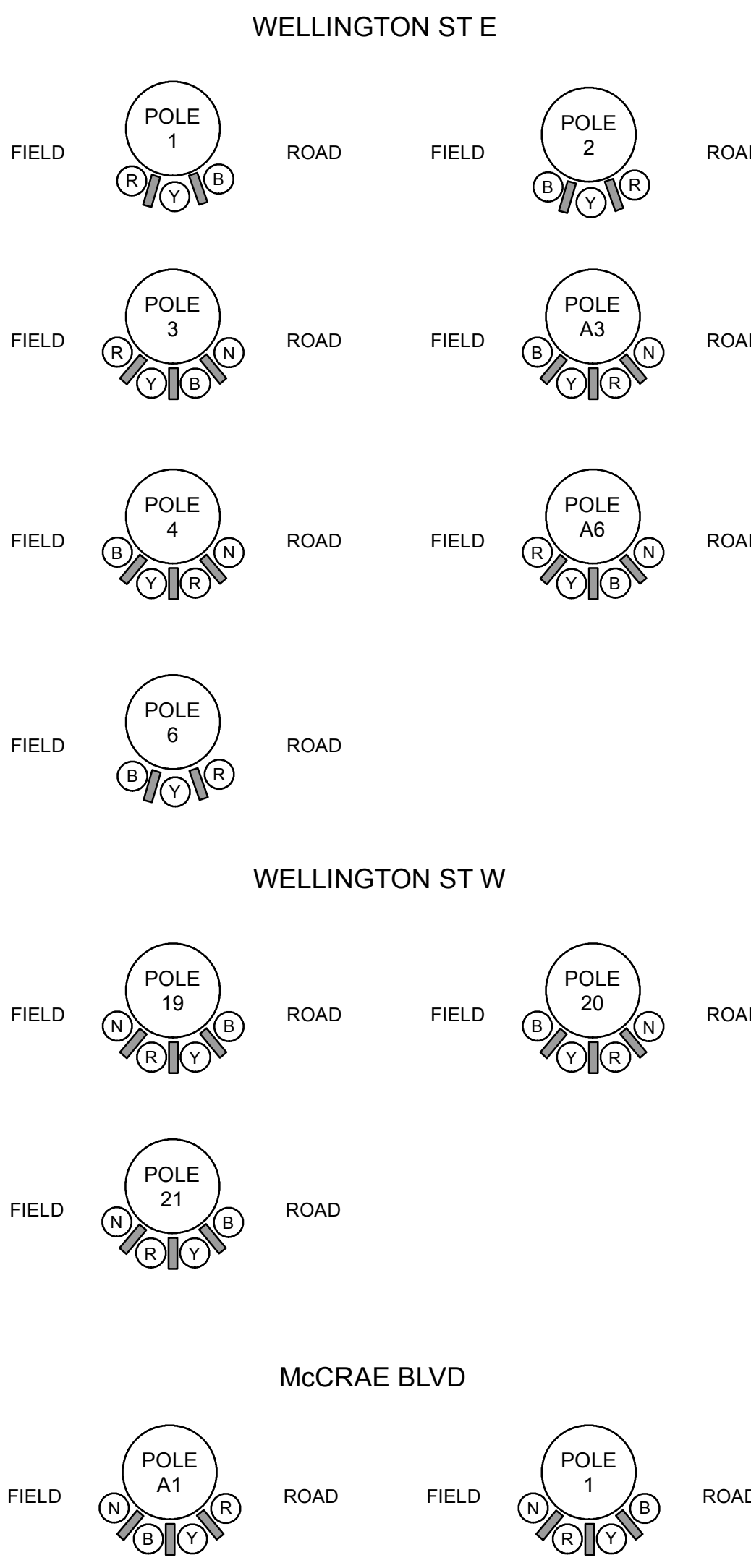
DETAIL C  
1:500



DETAIL D  
1:250



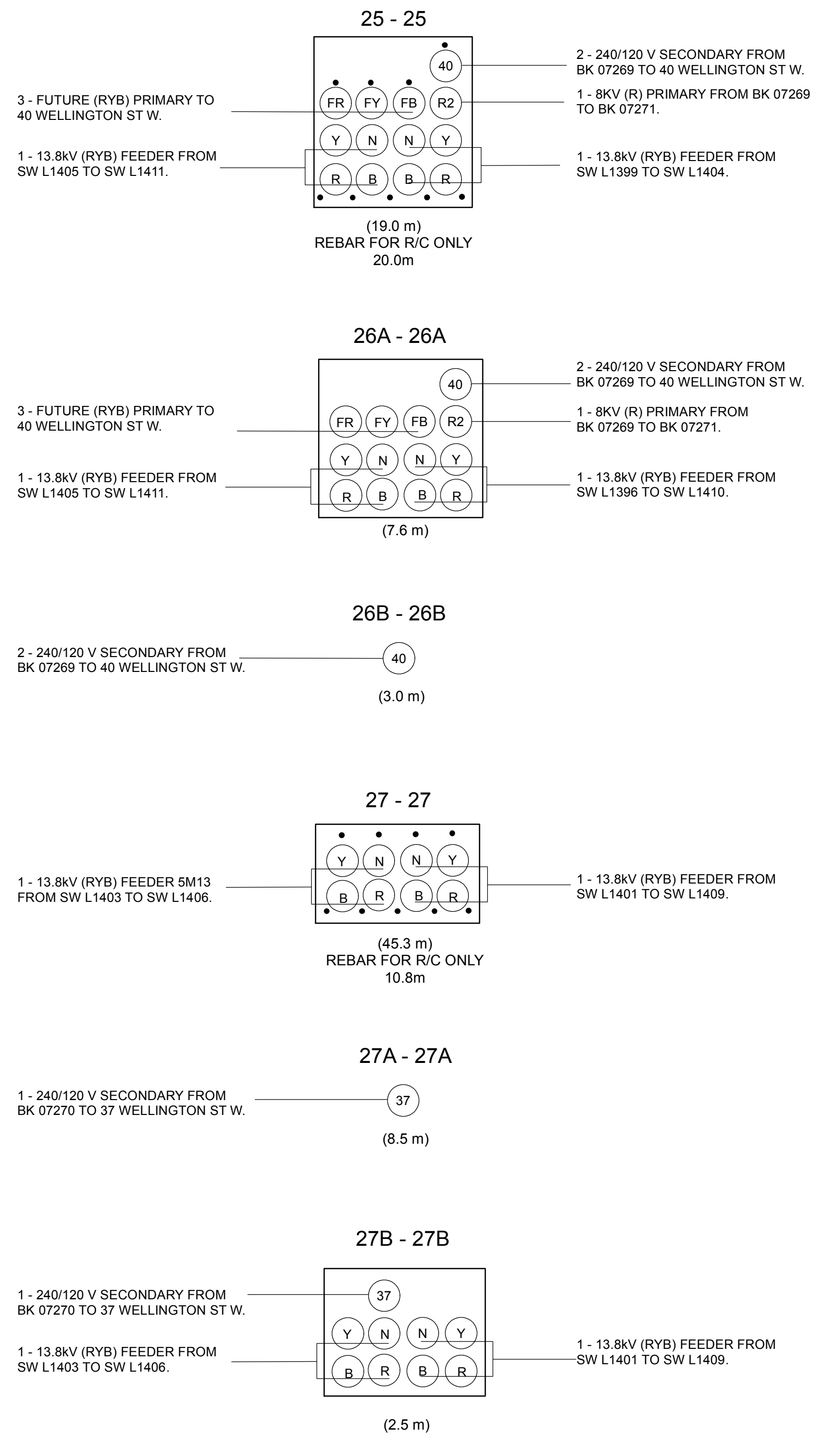
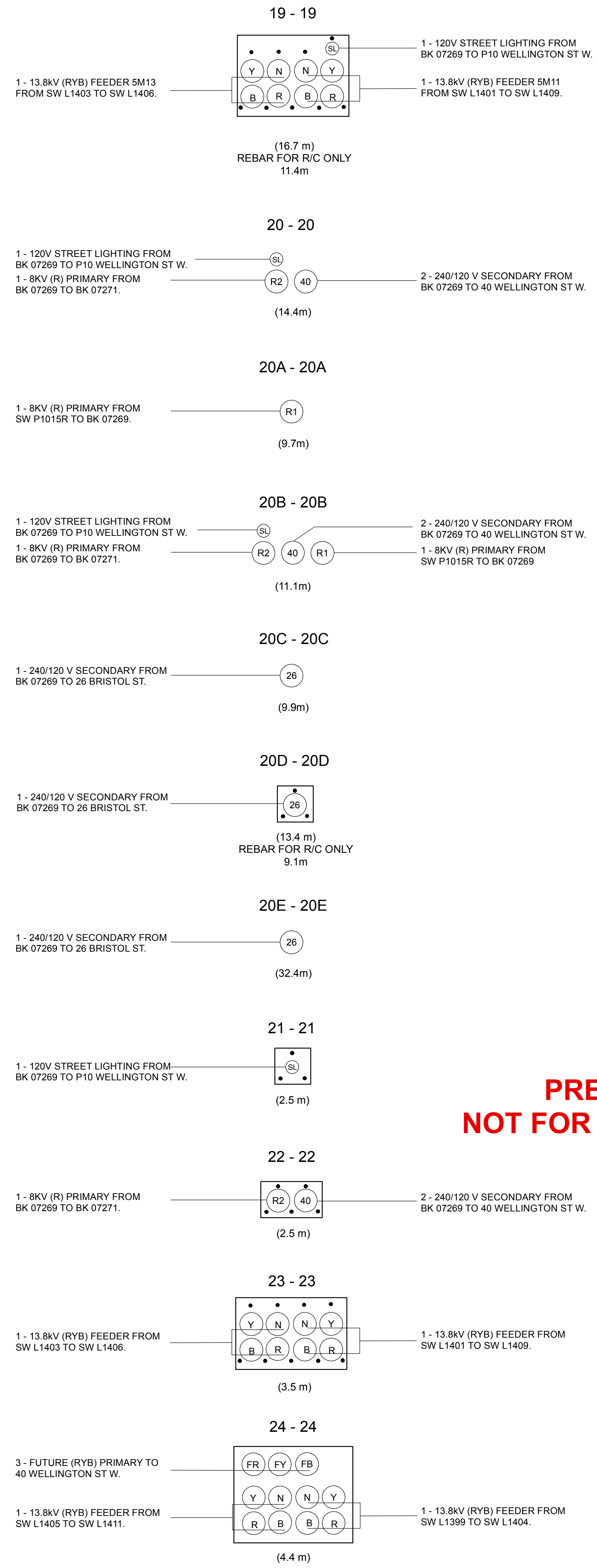
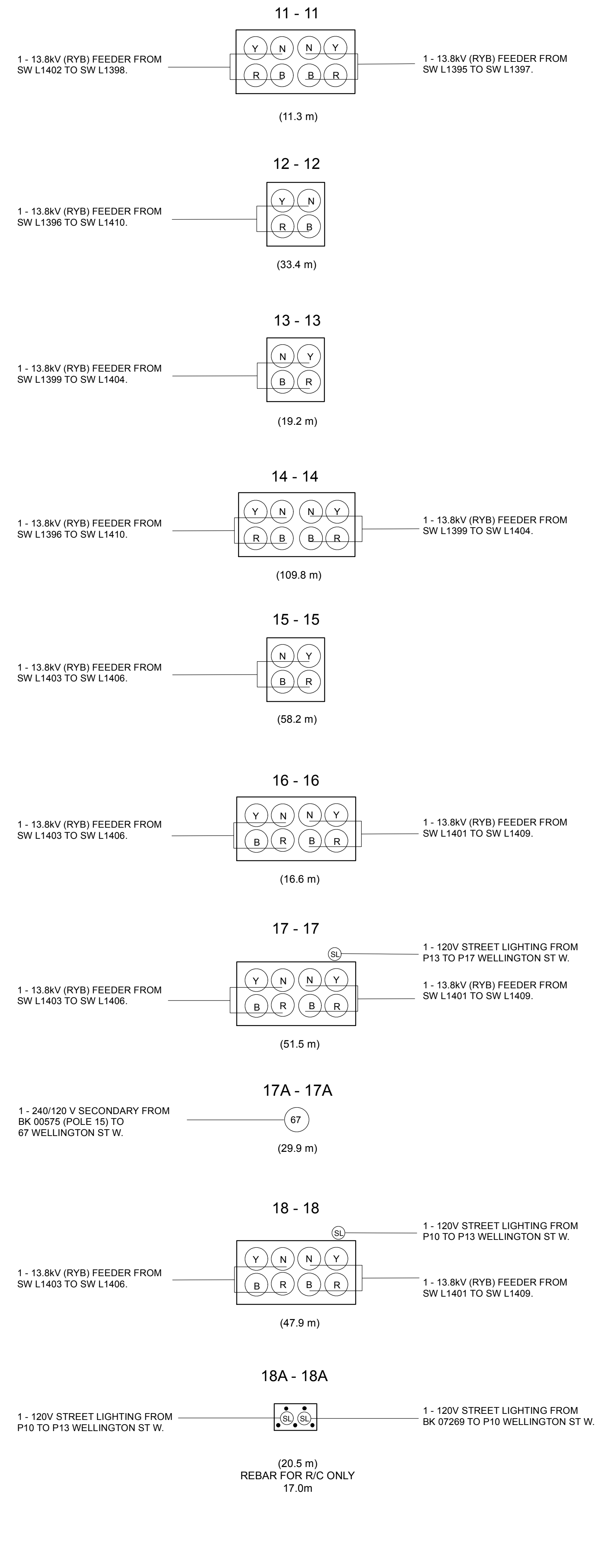
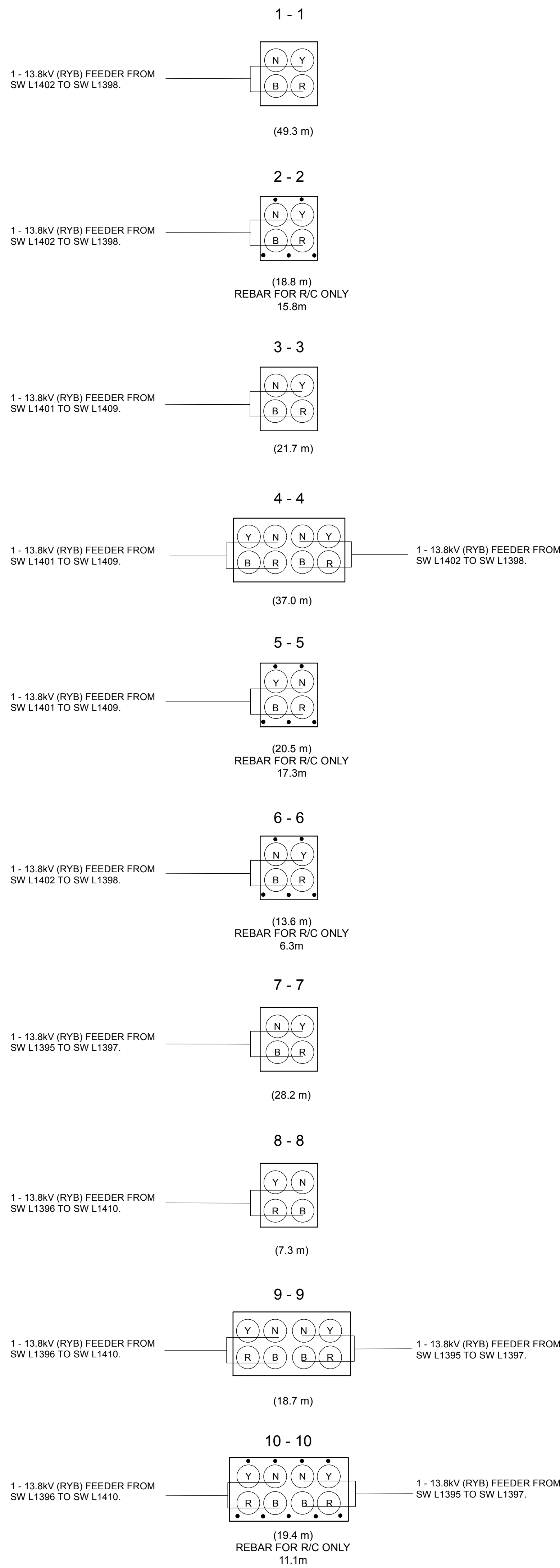
- LEGEND**
- 13,860 VOLTS - THREE PHASE
  - 8,000 VOLTS - SINGLE PHASE
  - SECONDARY
  - PRIMARY METER
  - BANKED TRANSFORMER
  - CUSTOMER OWNED TRANSFORMER STATION
  - PAD-MOUNTED TRANSFORMER - THREE PHASE
  - POLE-MOUNTED TRANSFORMER - THREE PHASE
  - POLE-MOUNTED TRANSFORMER - SINGLE PHASE
  - POLE TRANSFORMER - ELLIOTT
  - POLE TRANSFORMER - RELIANCE
  - SUBMERSIBLE TRANSFORMER
  - VAULT TRANSFORMER - THREE PHASE
  - VAULT TRANSFORMER - SINGLE PHASE
  - CAPACITOR
  - FAULT CIRCUIT INDICATOR
  - LIGHTNING ARRESTER
  - MANHOLE
  - VAULT
  - OPEN SWITCH POINT
  - OPEN BLADE SWITCH - THREE PHASE
  - CLOSED BLADE SWITCH - THREE PHASE
  - OPEN BLADE SWITCH - SINGLE PHASE
  - CLOSED SWITCH BLADE - SINGLE PHASE
  - OPEN FUSE SWITCH - THREE PHASE
  - CLOSED FUSE SWITCH - THREE PHASE
  - OPEN FUSE SWITCH - SINGLE PHASE
  - CLOSED FUSE SWITCH - SINGLE PHASE
  - OPEN VACUUM INTERRUPTER SWITCH - THREE PHASE
  - CLOSED VACUUM INTERRUPTER SWITCH - THREE PHASE
  - OPEN ELBOW
  - CLOSED ELBOW
  - PRIMARY CONNECTION BOX
  - SECONDARY CONNECTION BOX
  - TRANSFORMER PAD - THREE PHASE
  - TRANSFORMER PAD - SINGLE PHASE
  - SECONDARY METER
  - HANDHOLE BREAKER
  - STREET LIGHT SERVICE BOX
  - EMS, EMS COIL
  - TRENCH LINE
  - STREET LIGHT
  - MULTIPLE GUY, GUY
  - POLE KEY
  - EXISTING POLE
  - NEW POLE
  - POLE TO BE REMOVED



**PRELIMINARY  
NOT FOR CONSTRUCTION**

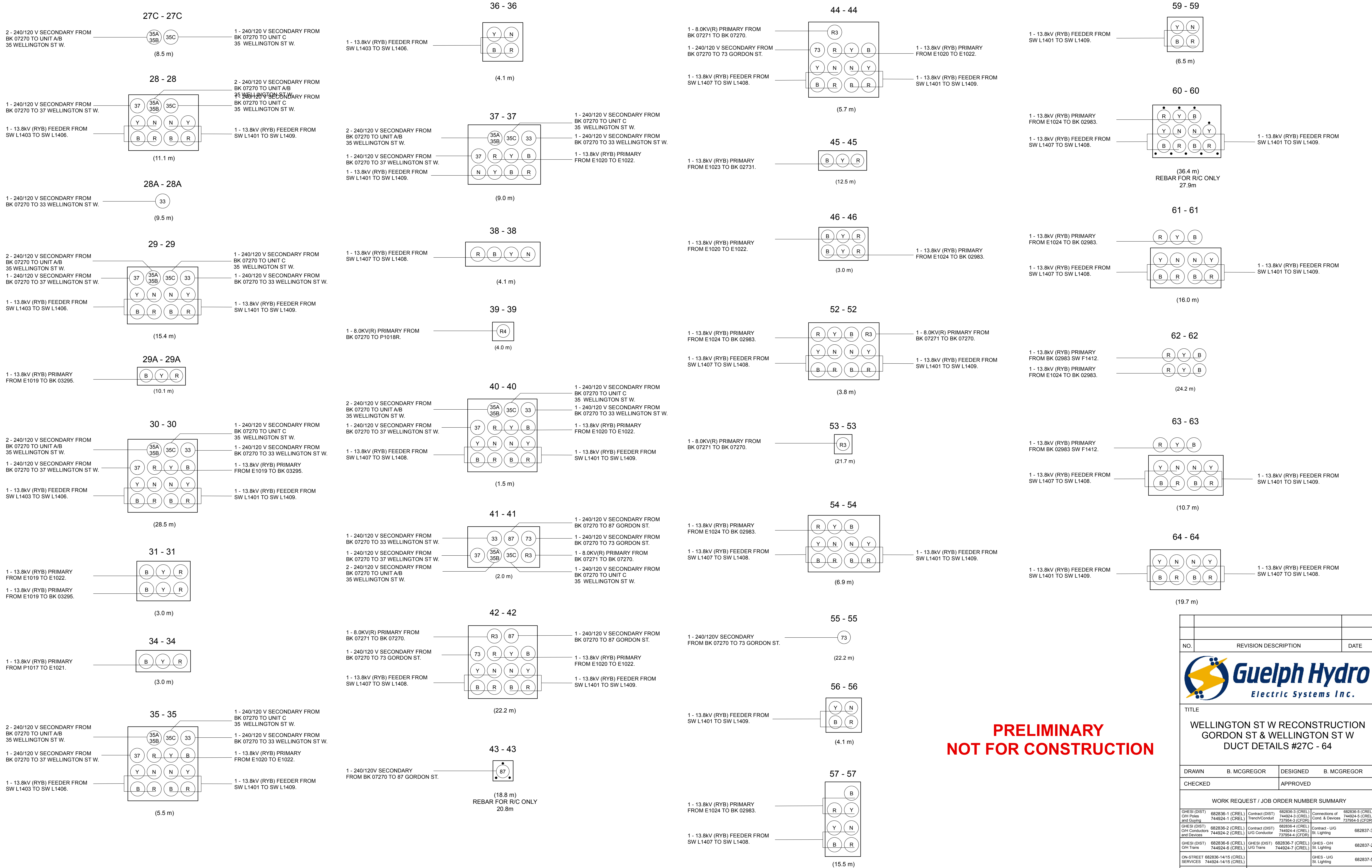
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NO.	REVISION DESCRIPTION	DATE
TITLE <b>WELLINGTON ST W RECONSTRUCTION                  GORDON ST &amp; WELLINGTON ST W                  CIVIL DETAILS</b>		
DRAWN	L.NANIBUSH	DESIGNED B. MCGREGOR
CHECKED		APPROVED
WORK REQUEST / JOB ORDER NUMBER SUMMARY		
GHE (DIST) 682836-1 (CREL) OH Poles 744924-3 (CREL) and Guying	Contract (DIST) 744924-1 (CREL) Trench/Conduit	Connections of 682836-5 (CREL) 744924-3 (CREL) and Devices 737954-3 (CFDR)
GHE (DIST) 682836-2 (CREL) OH Conductors 744924-2 (CREL) and Devices	Contract (DIST) 744924-1 (CREL) U/G Conductor	Connections of 682836-4 (CREL) 744924-4 (CREL) St. Lighting 737954-4 (CFDR)
GHE (DIST) 682836-6 (CREL) OH Trans 744924-6 (CREL)	GHE (DIST) 682836-7 (CREL) U/G Trans 744924-7 (CREL)	GHE - OH 682837-2 St. Lighting
ON-STREET SERVICES 682836-14/15 (CREL) 744924-14/15 (CREL)		GHE - U/G 682837-6 St. Lighting
SCALE	1:750	DWG. NO. 2012014-RC21-D
DATE	2013/03/06	




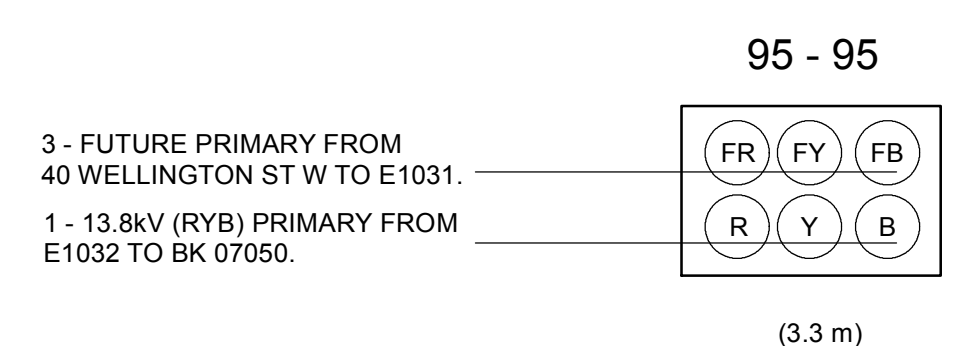
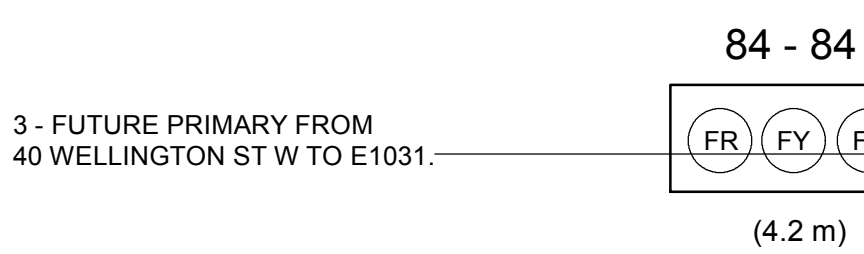
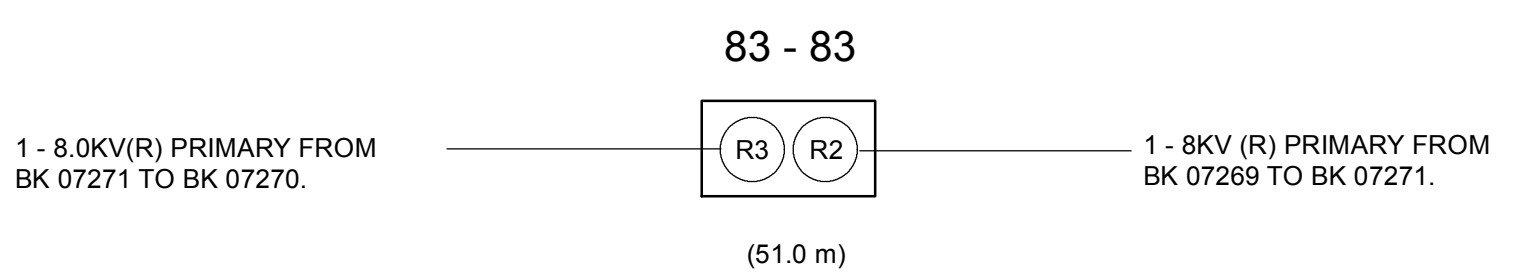
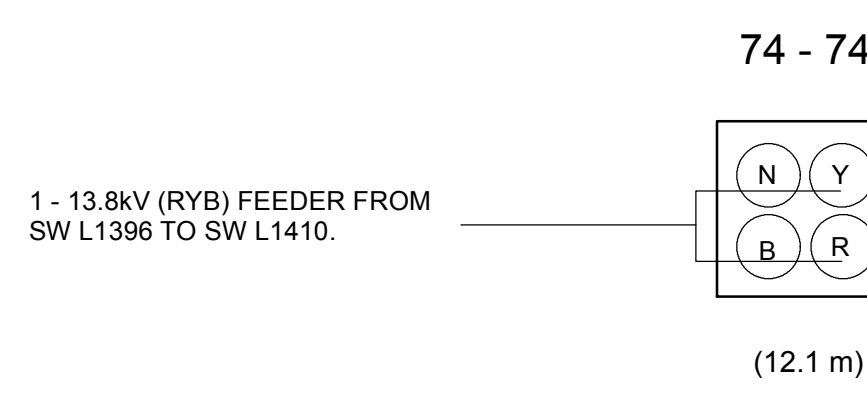
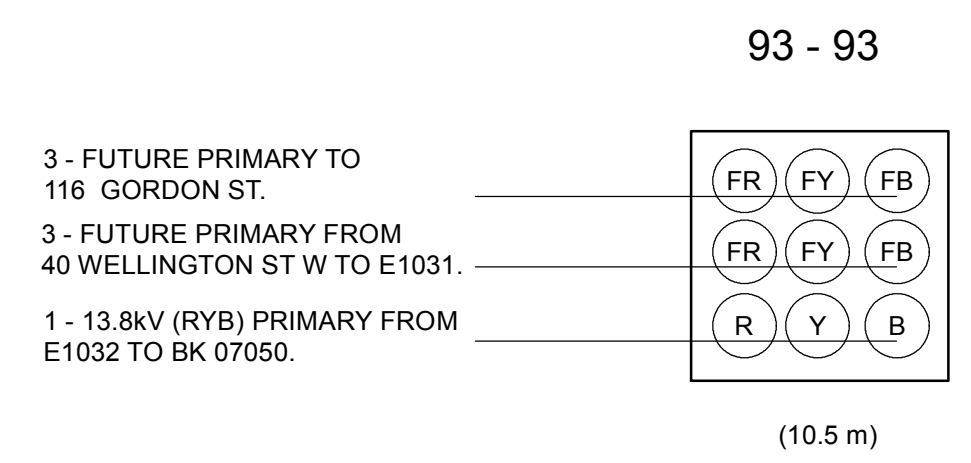
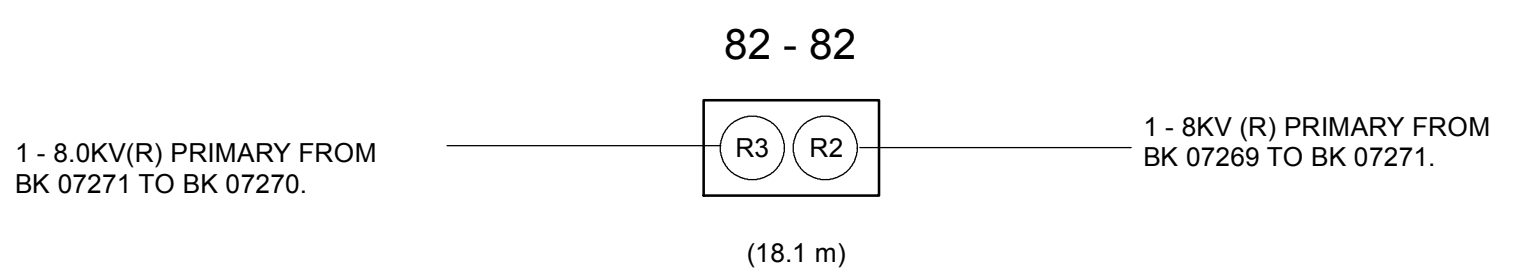
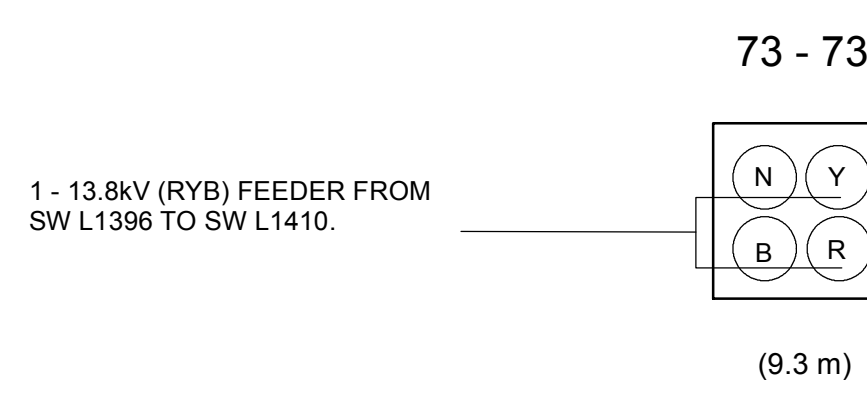
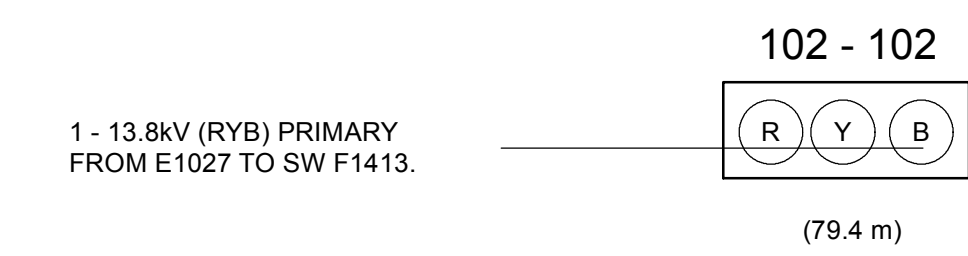
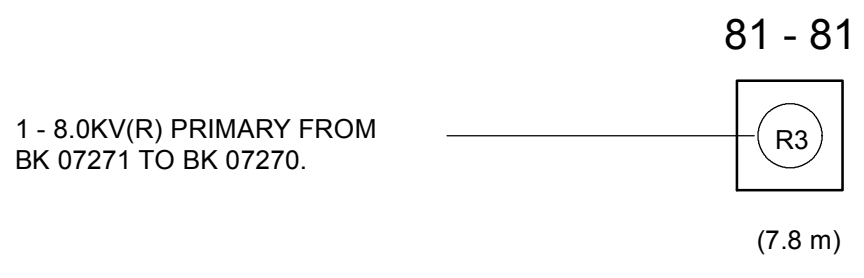
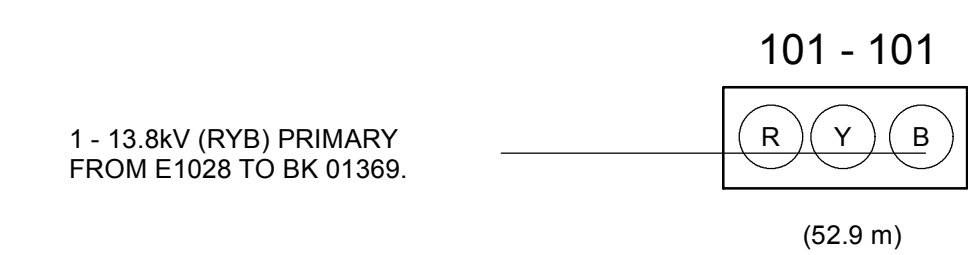
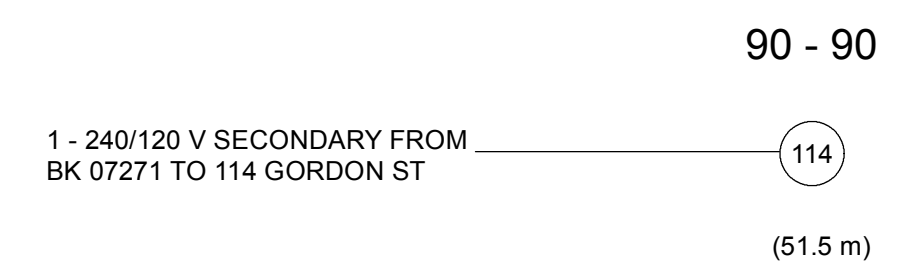
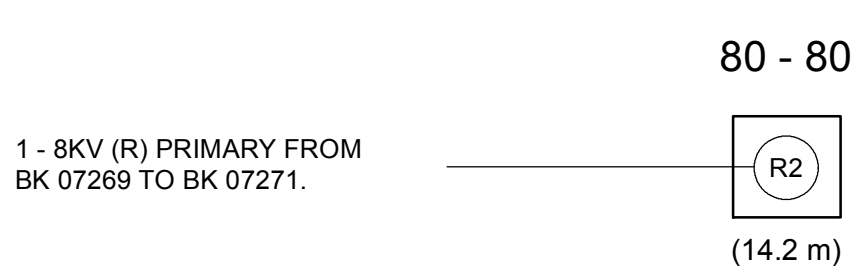
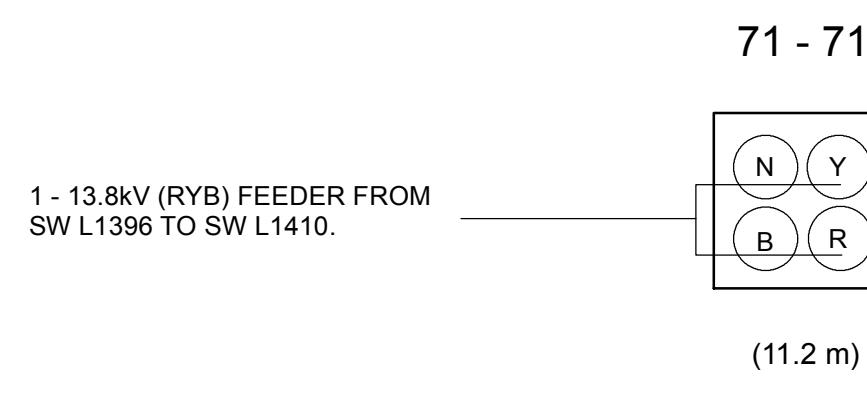
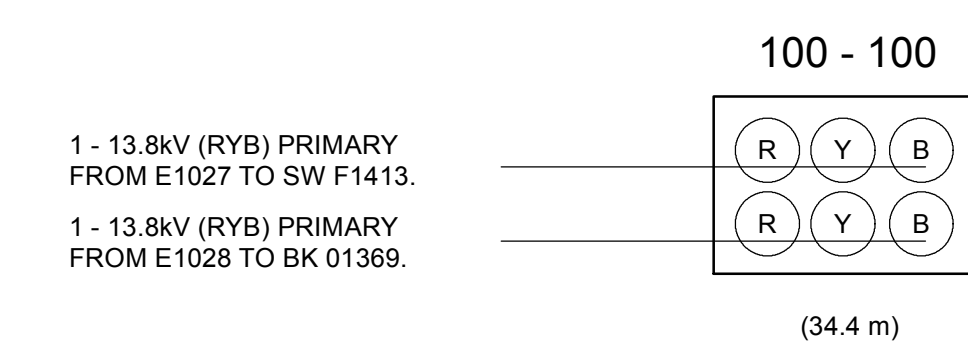
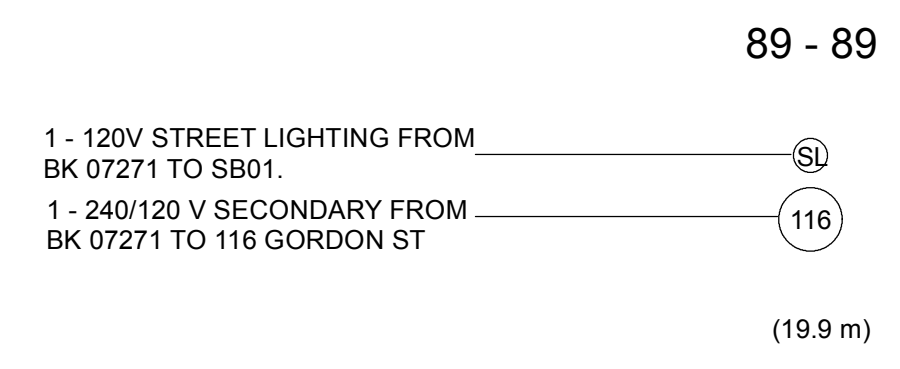
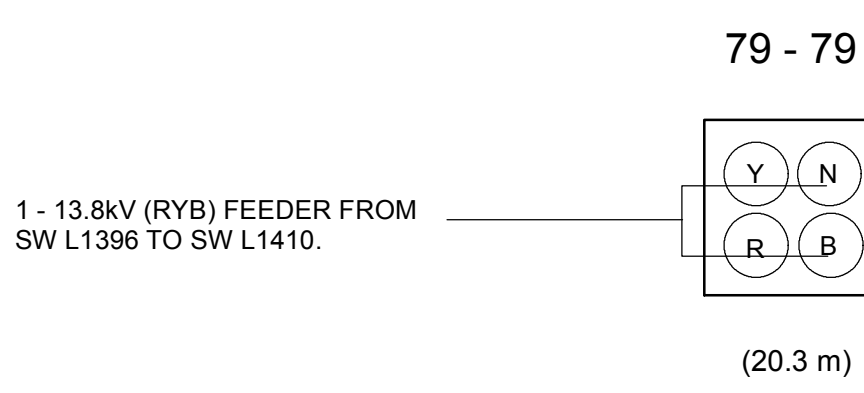
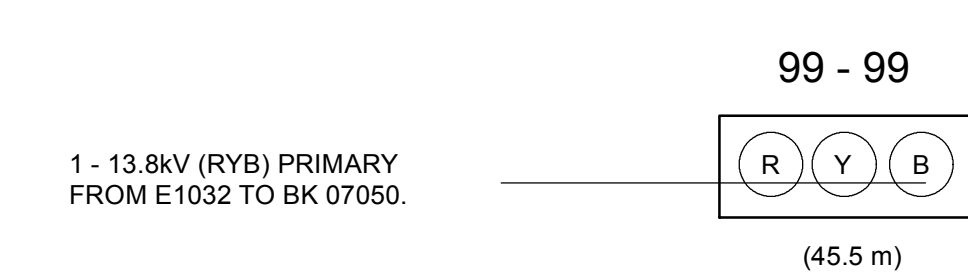
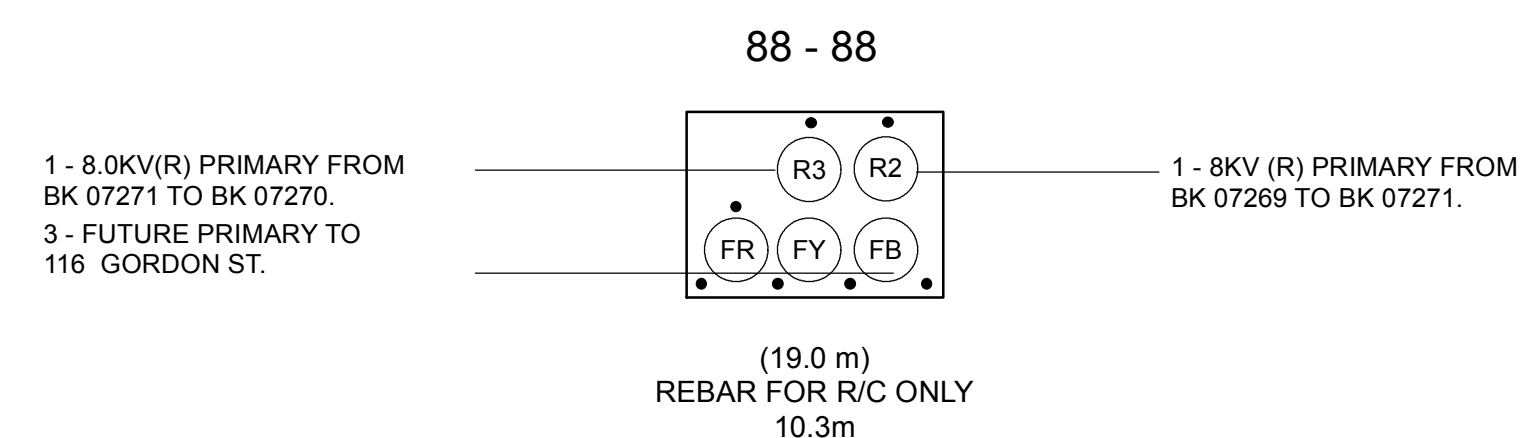
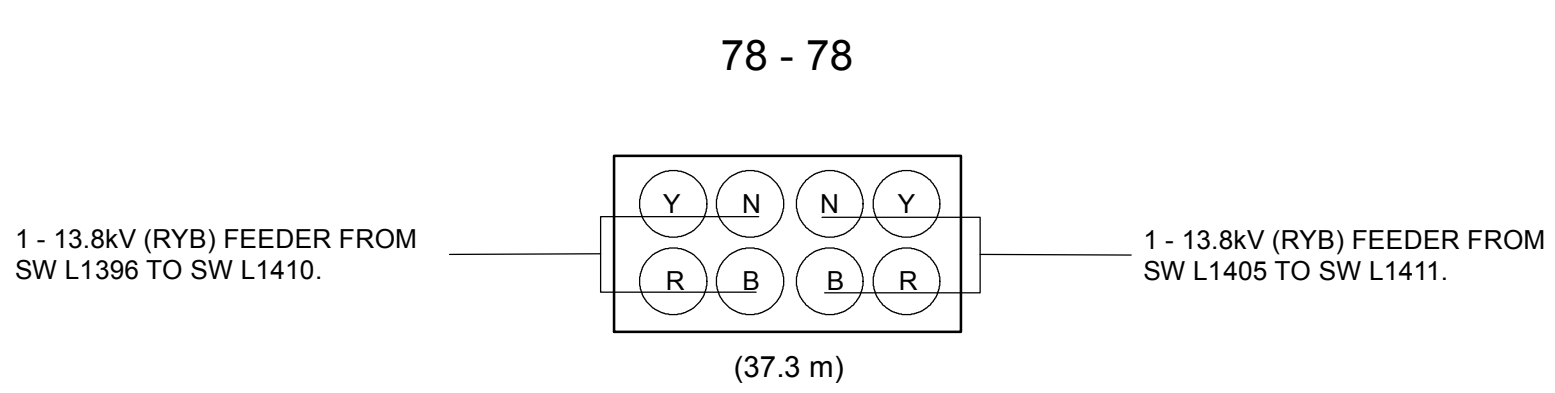
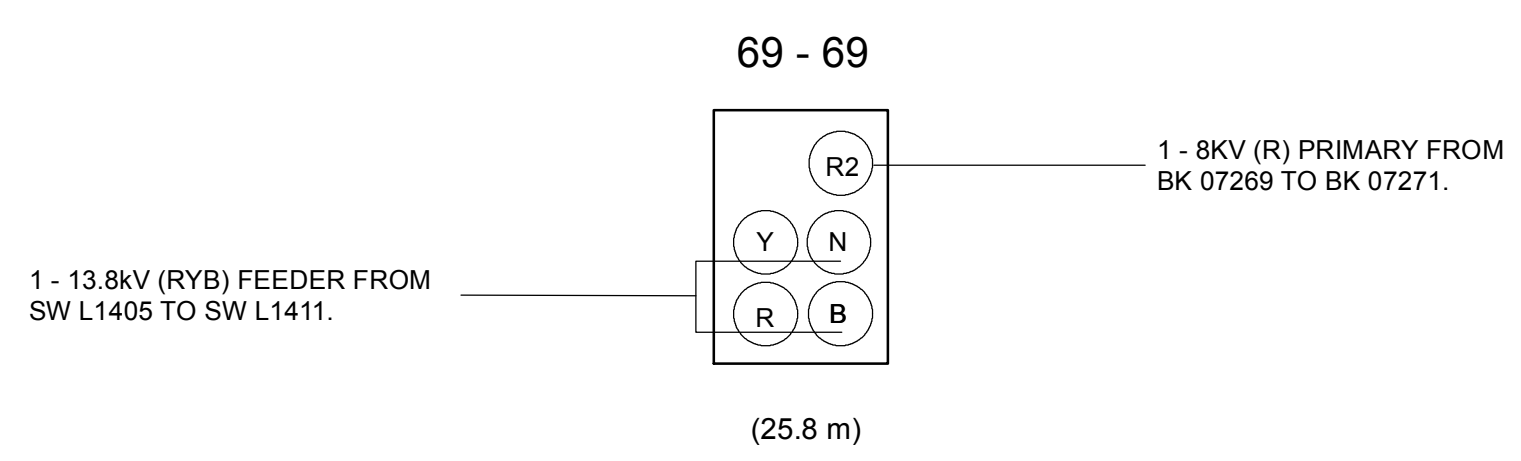
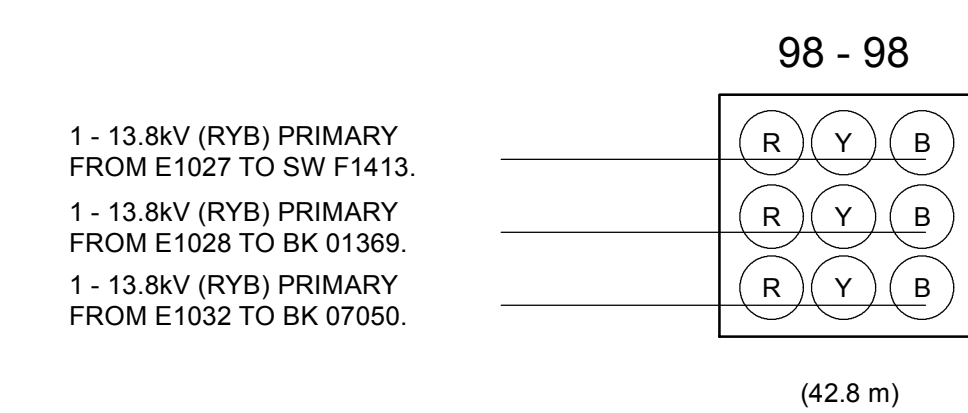
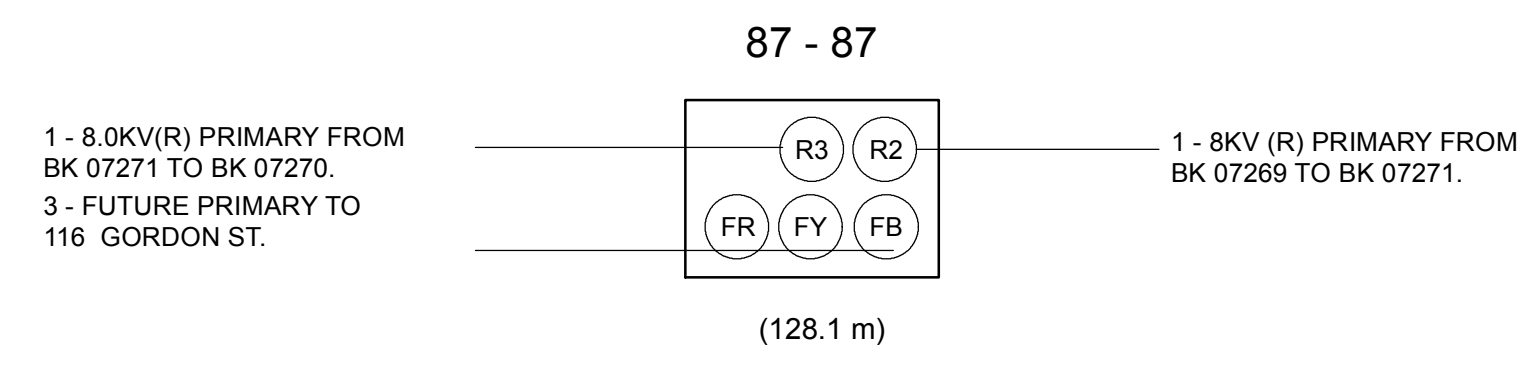
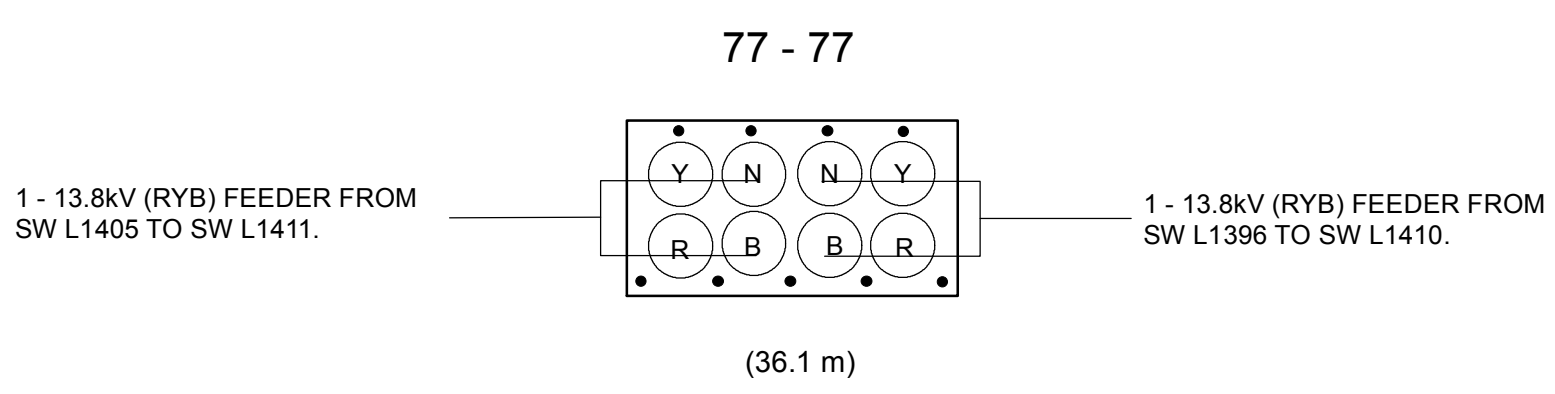
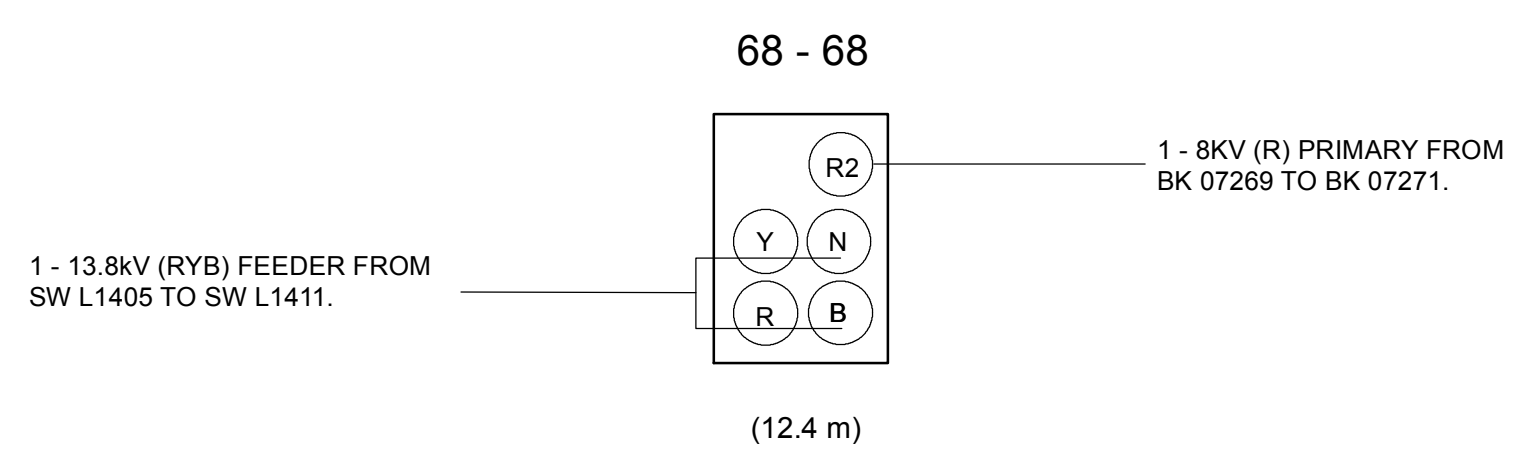
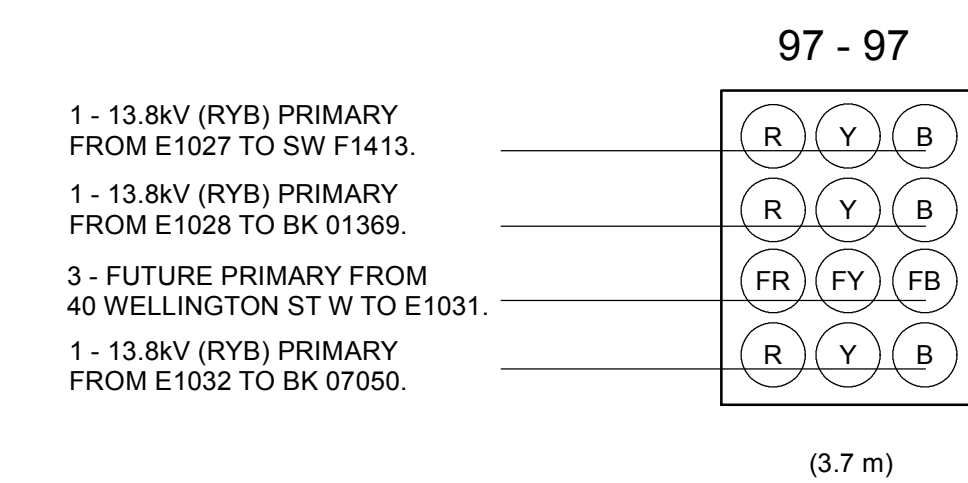
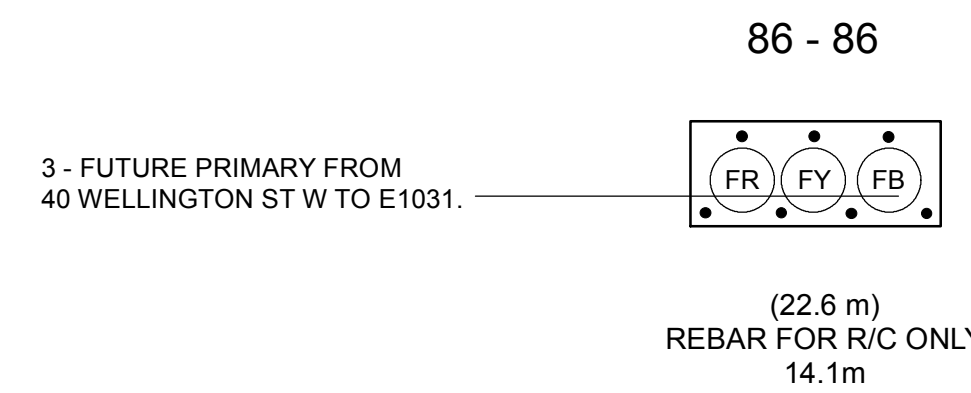
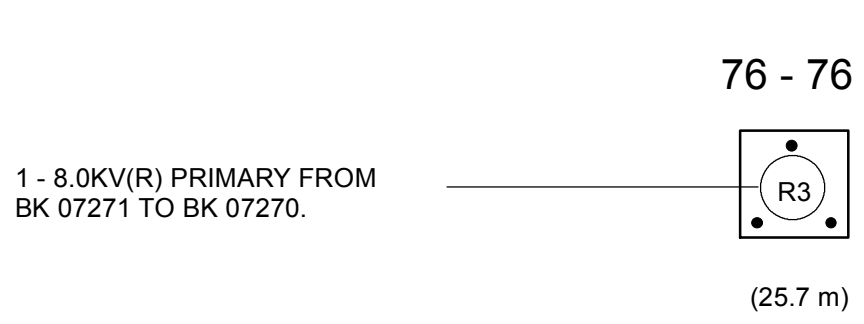
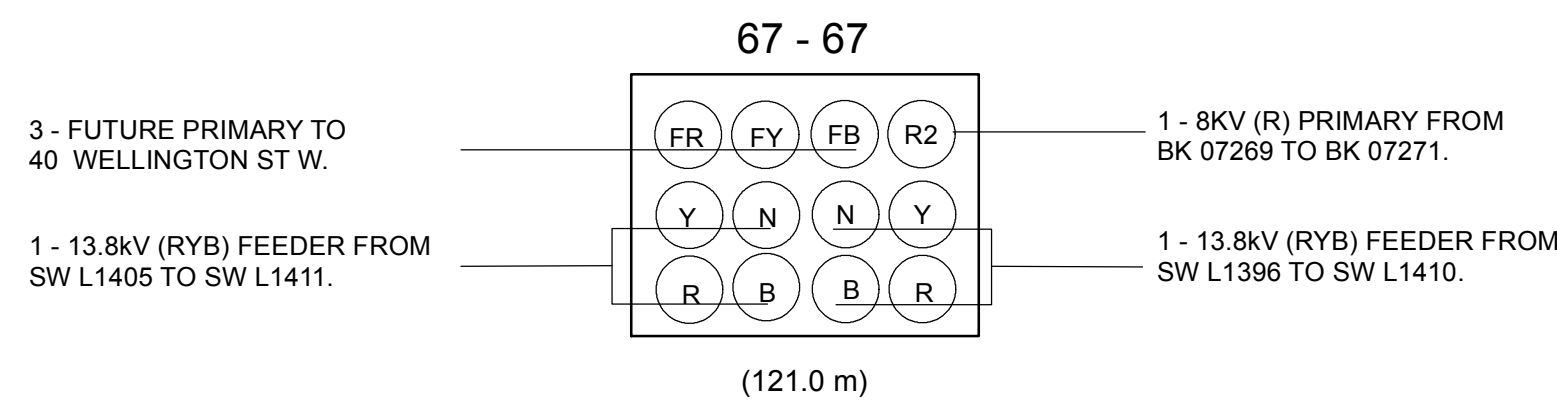
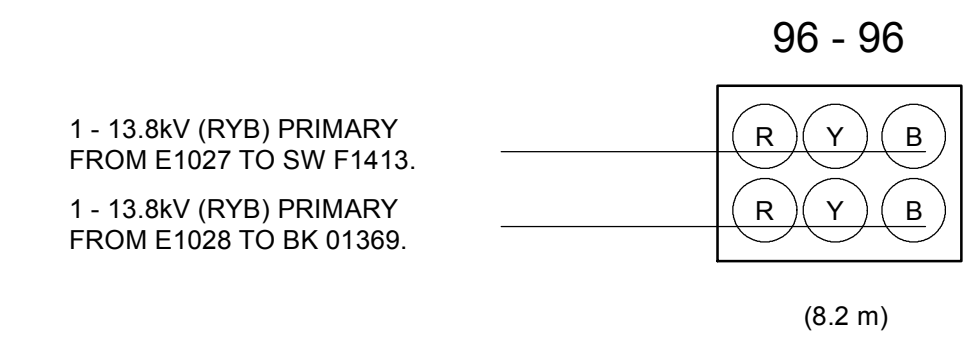
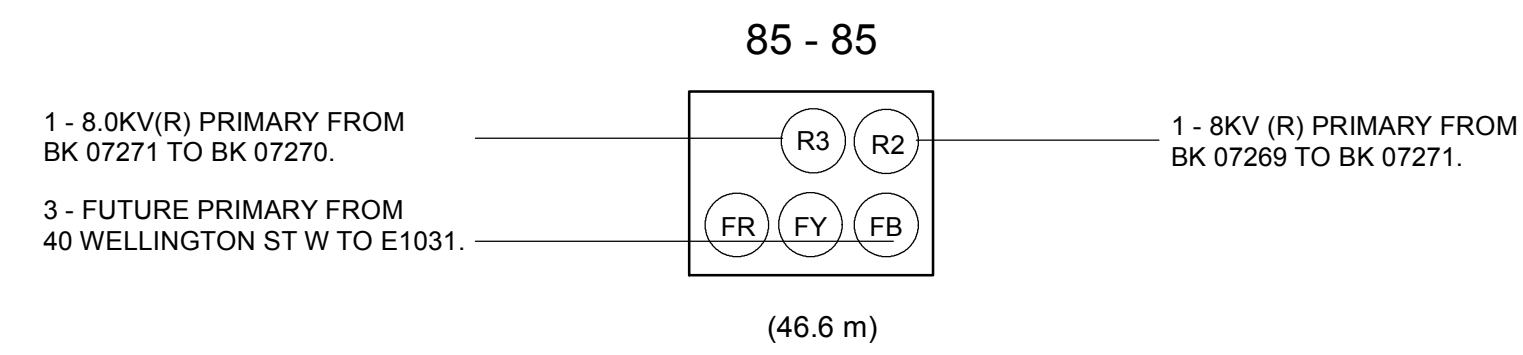
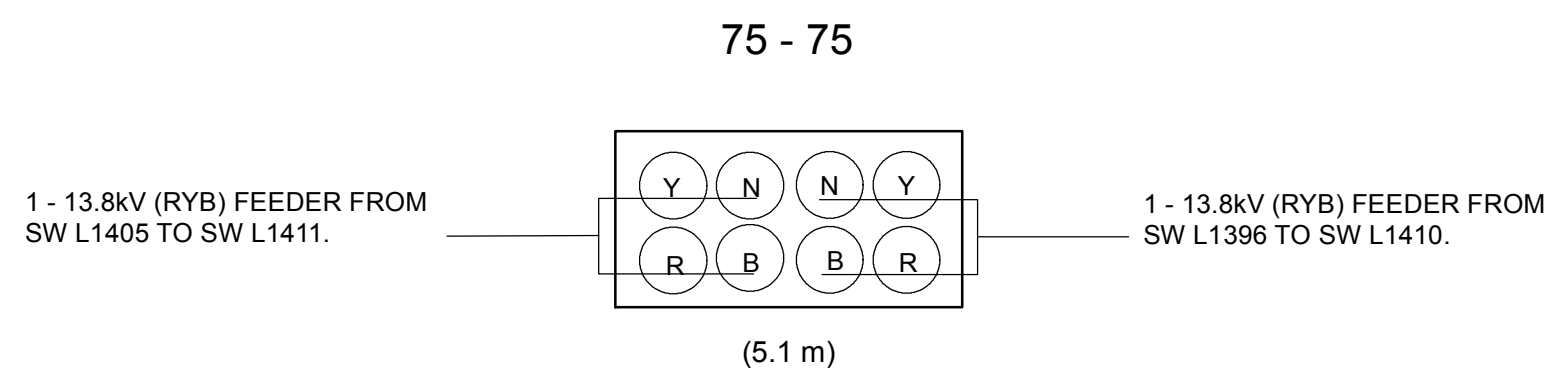
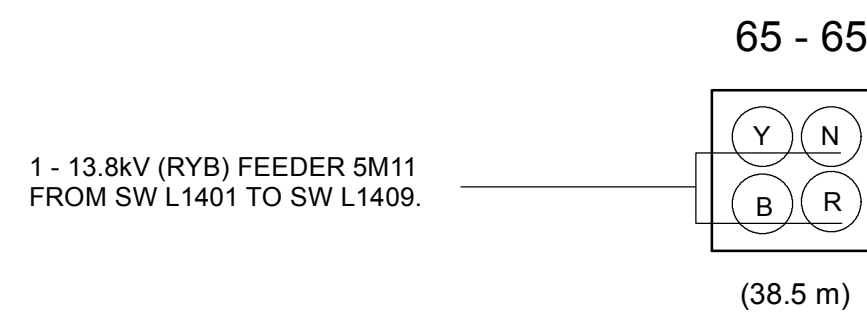
**PRELIMINARY  
NOT FOR CONSTRUCTION**

NO.	REVISION DESCRIPTION	DATE
<b>TITLE</b> WELLINGTON ST W RECONSTRUCTION GORDON ST & WELLINGTON ST W DUCT DETAILS # 1 - 27B		
DRAWN	B. MCGREGOR	DESIGNED B. MCGREGOR
CHECKED		APPROVED
<b>WORK REQUEST / JOB ORDER NUMBER SUMMARY</b>		
GHESI (DIST) OH Poles and Guying	682836-1 (CREL) 744924-1 (CREL)	Contract (DIST) 682836-3 (CREL) 737954-3 (CFDR)
GHESI (DIST) OH Conductors and Devices	682836-2 (CREL) 744924-2 (CREL)	Contract (DIST) 682836-4 (CREL) 737954-4 (CFDR)
GHESI (DIST) OH Trans	682836-6 (CREL) 744924-6 (CREL)	Contract (DIST) 682836-7 (CREL) 737954-7 (CFDR)
ON-STREET SERVICES	682836-14115 (CREL) 744924-14115 (CREL)	Connections of Cond. & Devices 682836-5 (CREL) 737954-5 (CFDR)
		Contract - U/G St. Lighting 682837-3
		GHES - OH St. Lighting 682837-2
		GHES - U/G St. Lighting 682837-5
SCALE	N.T.S.	DWG. NO. 2012014-RC21-E
DATE	2013/03/06	



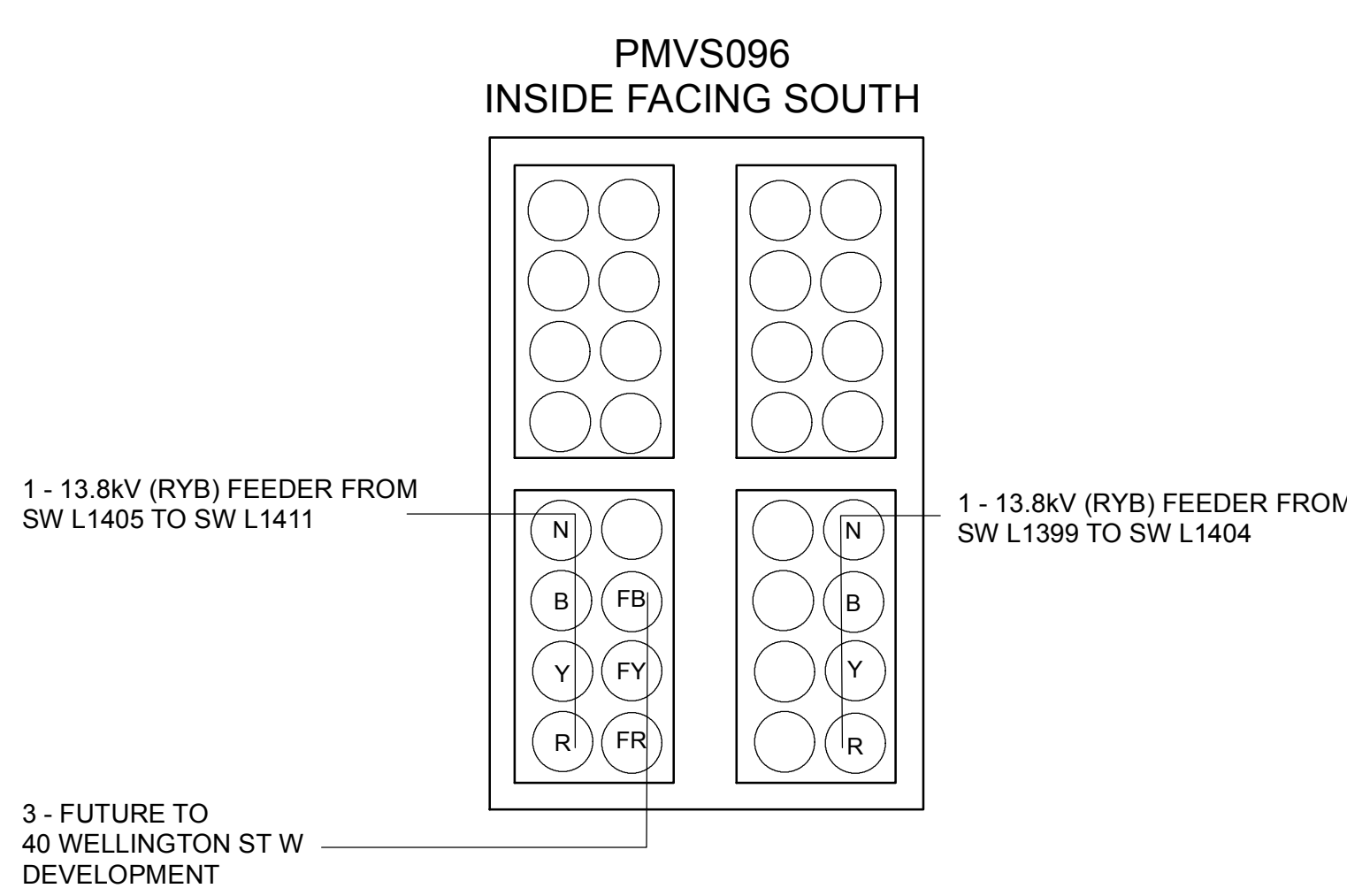
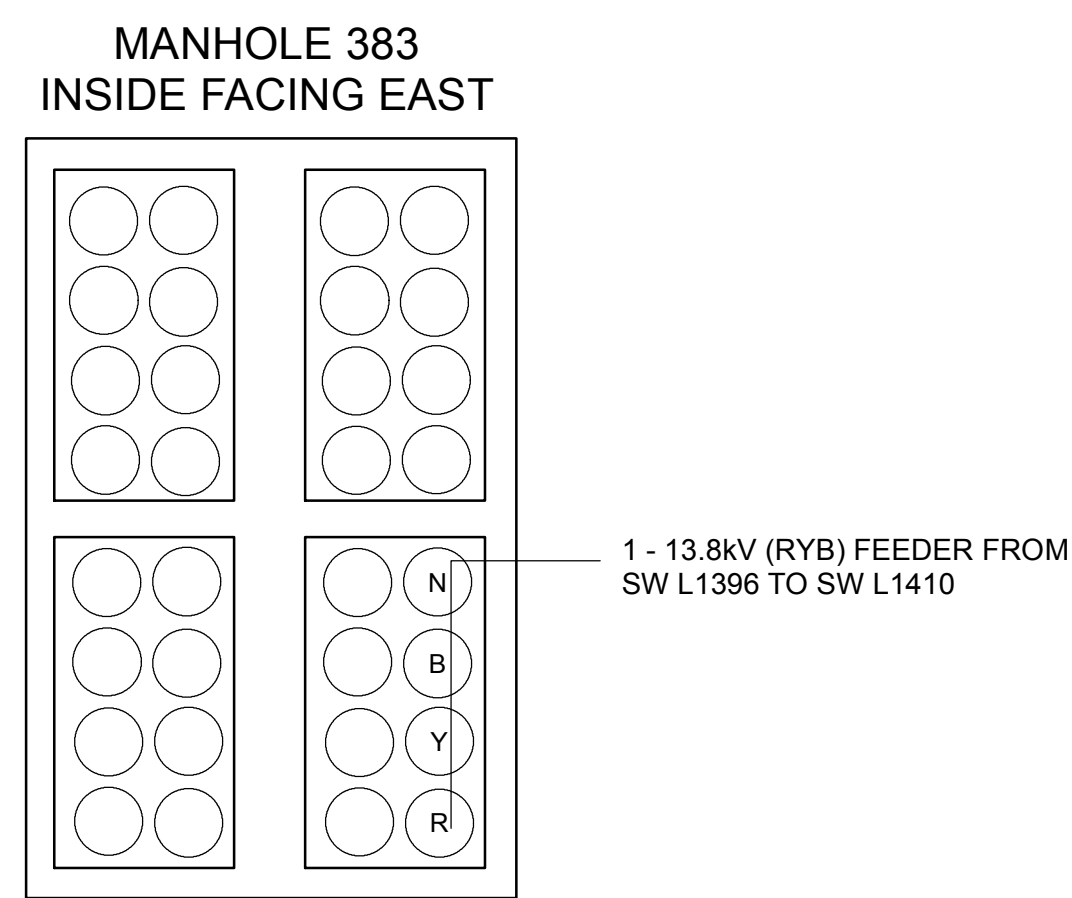
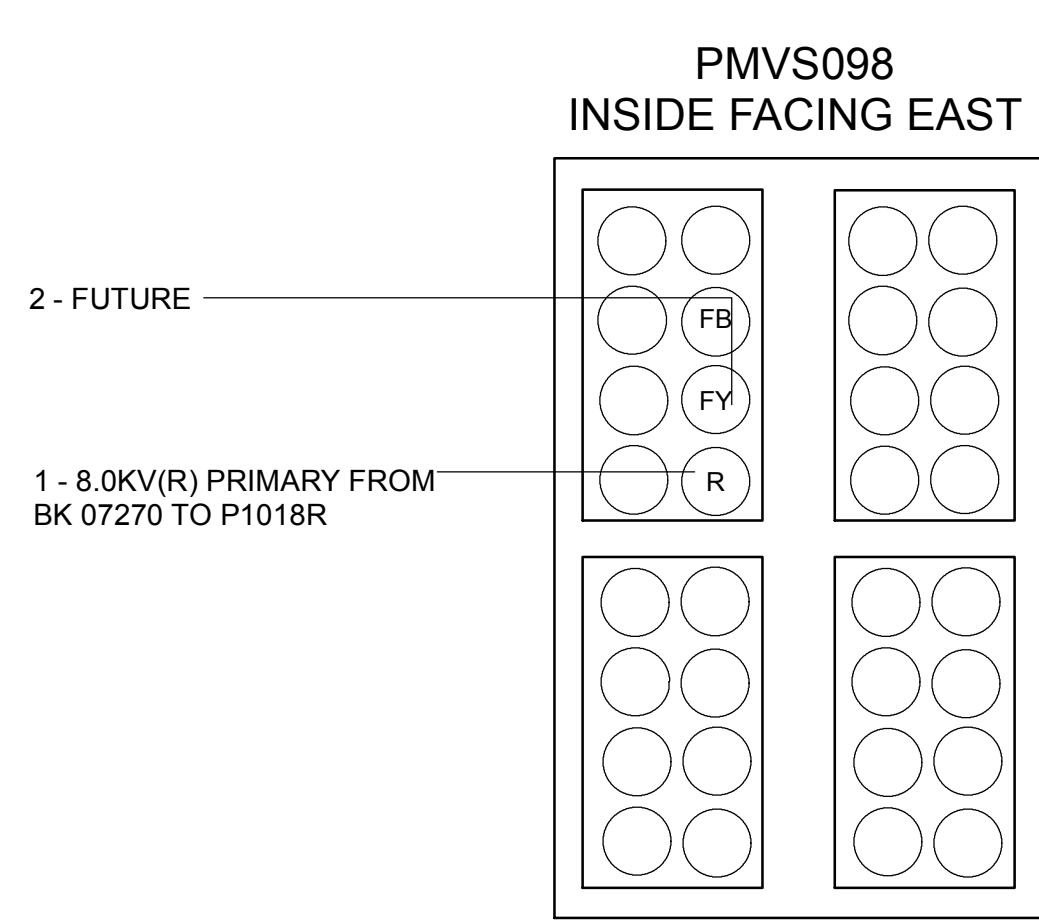
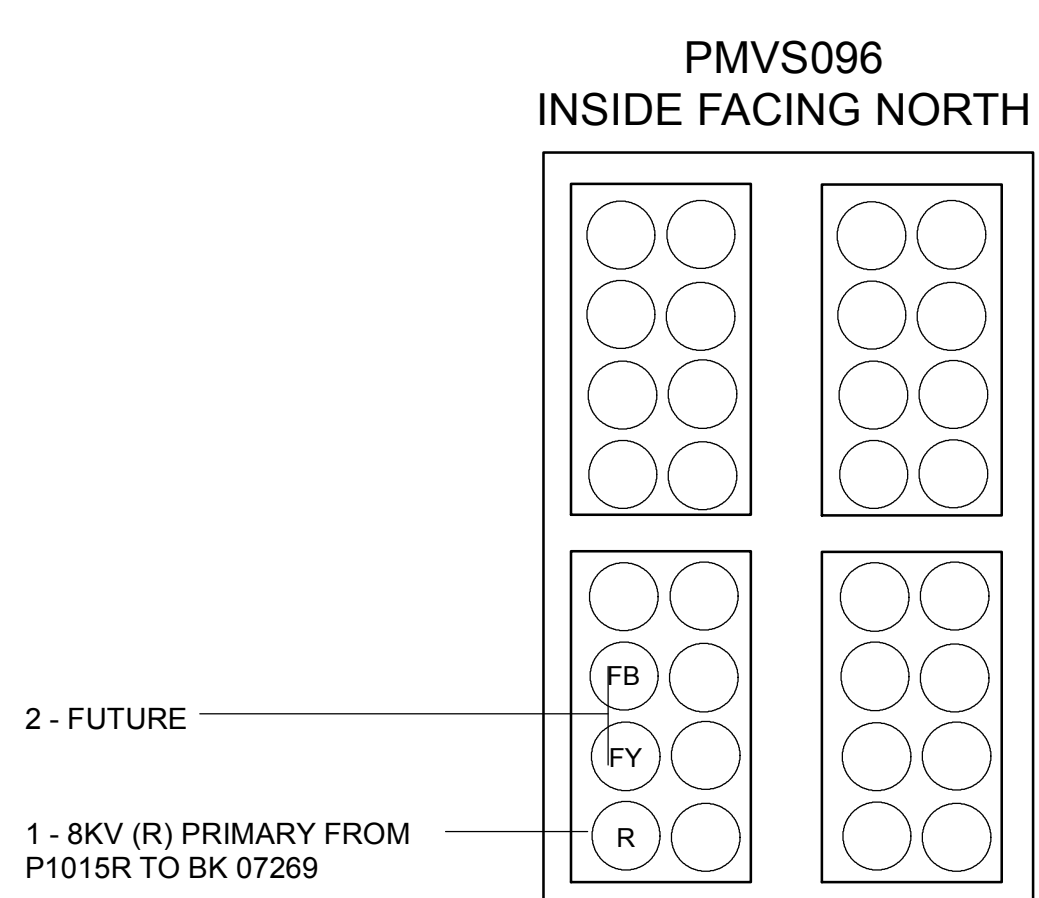
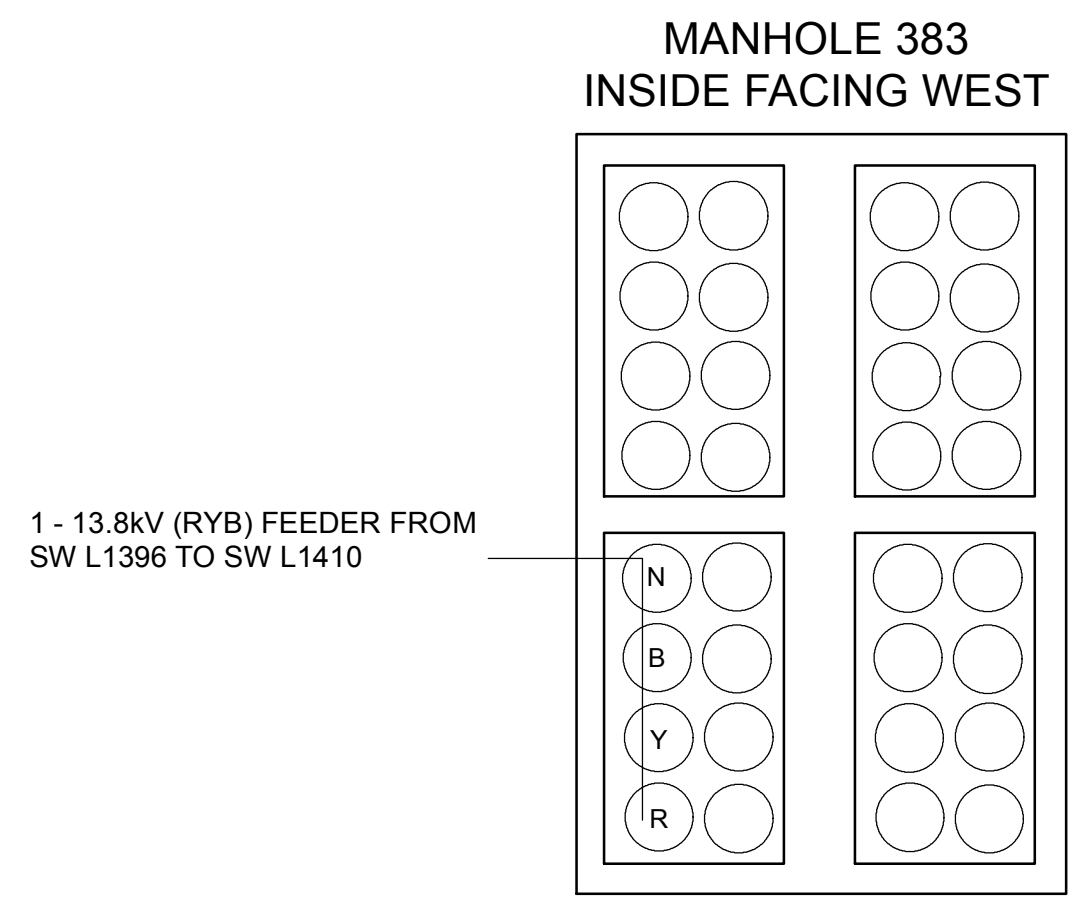
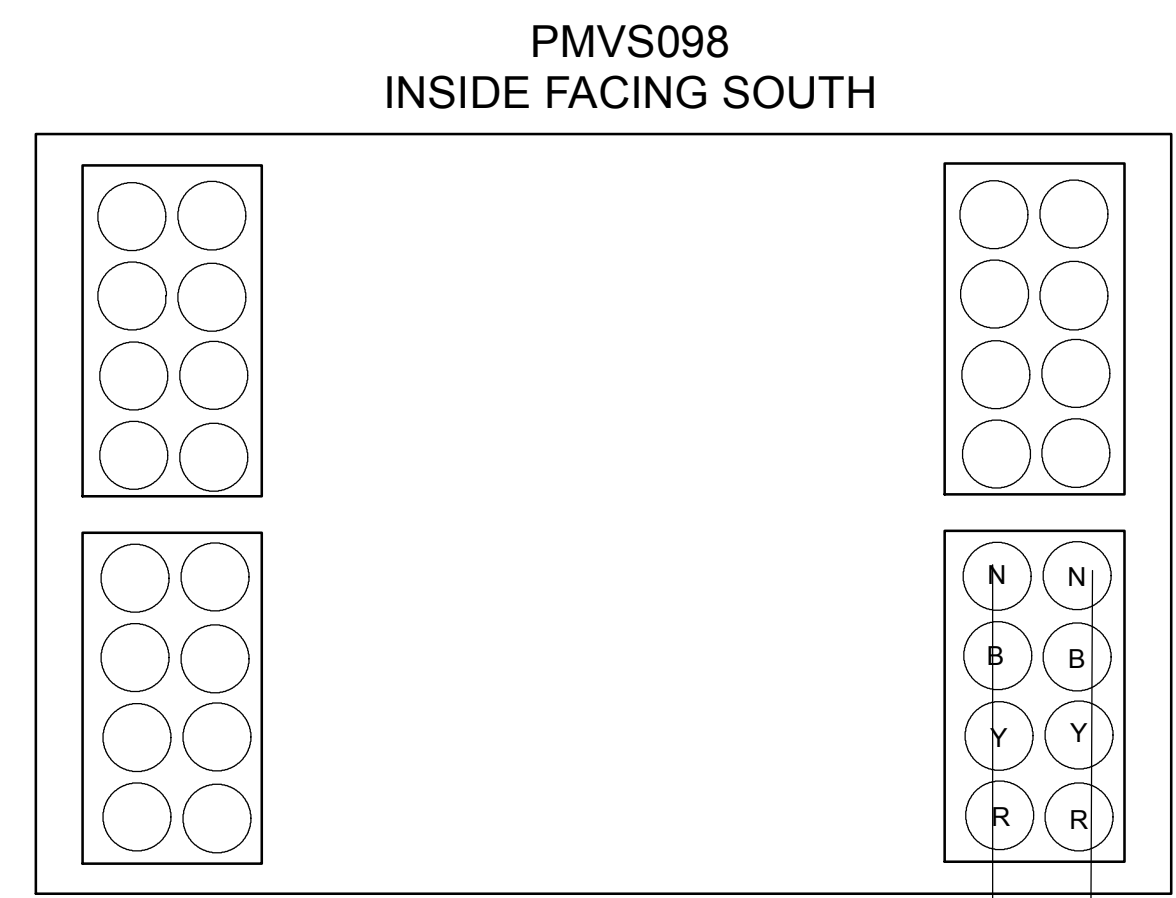
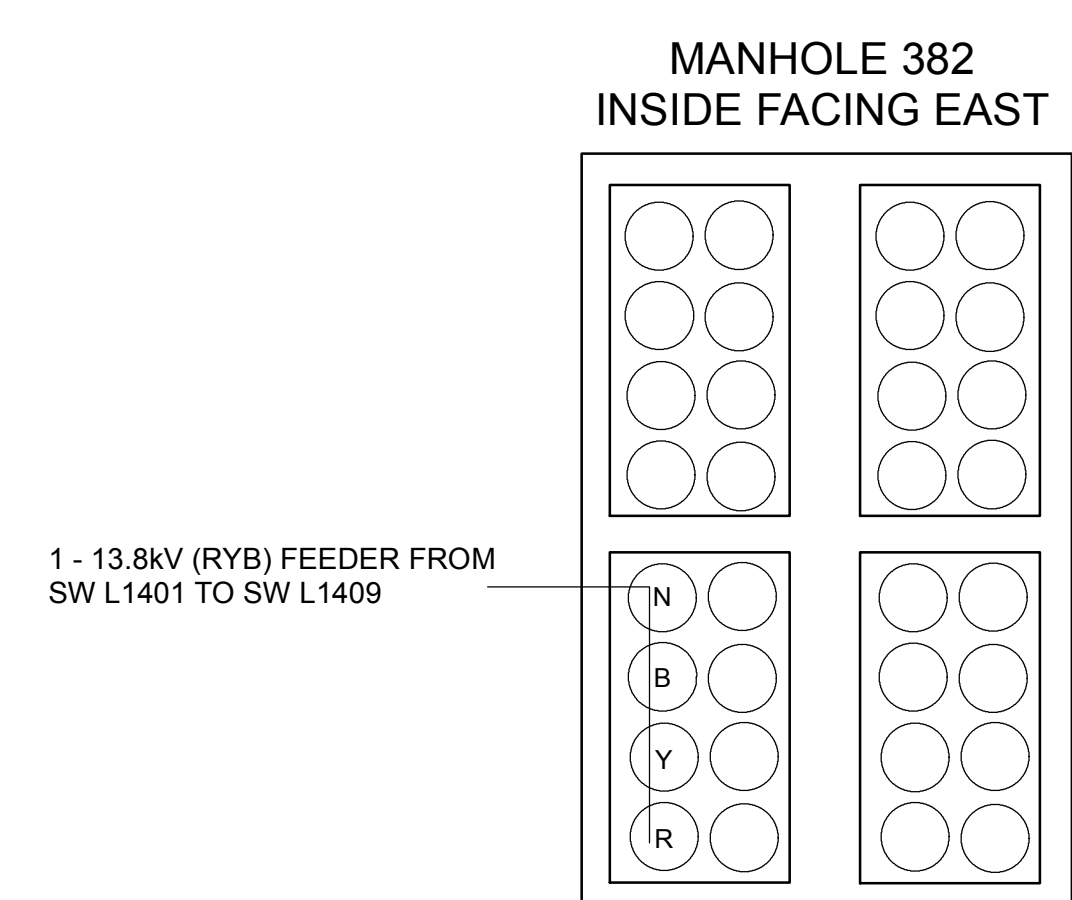
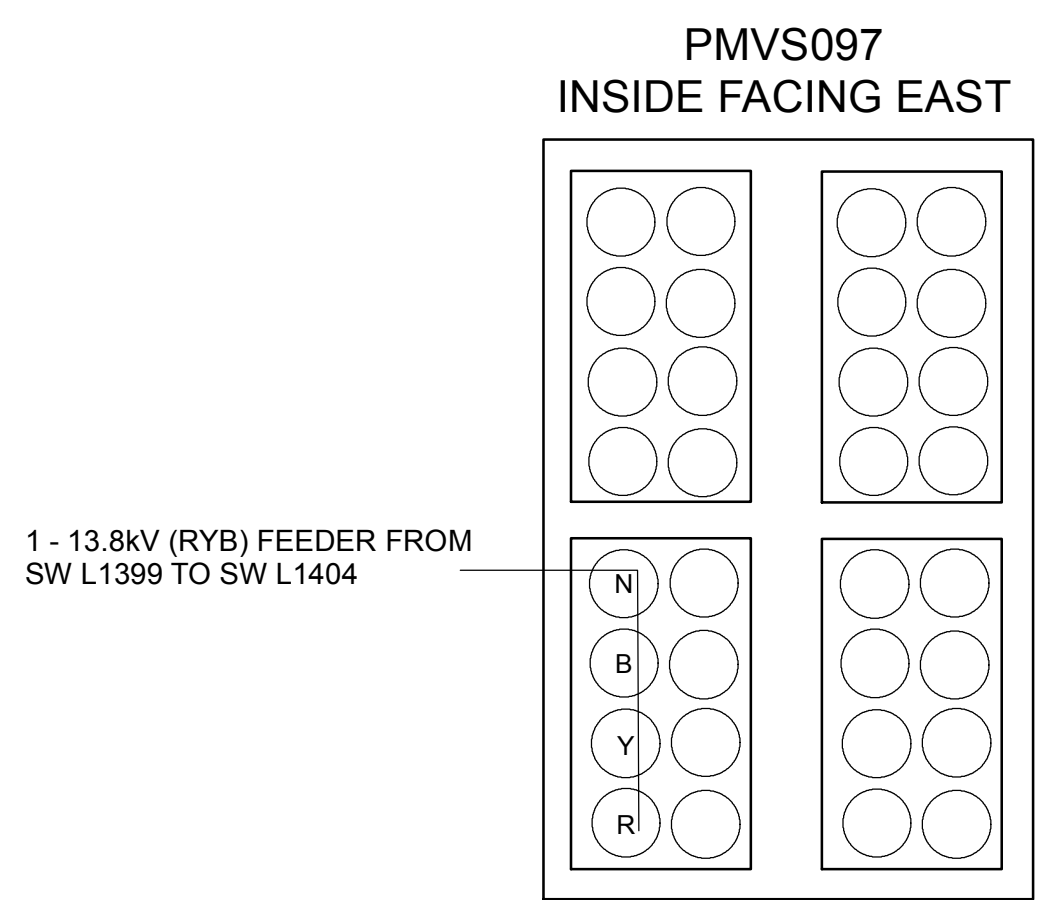
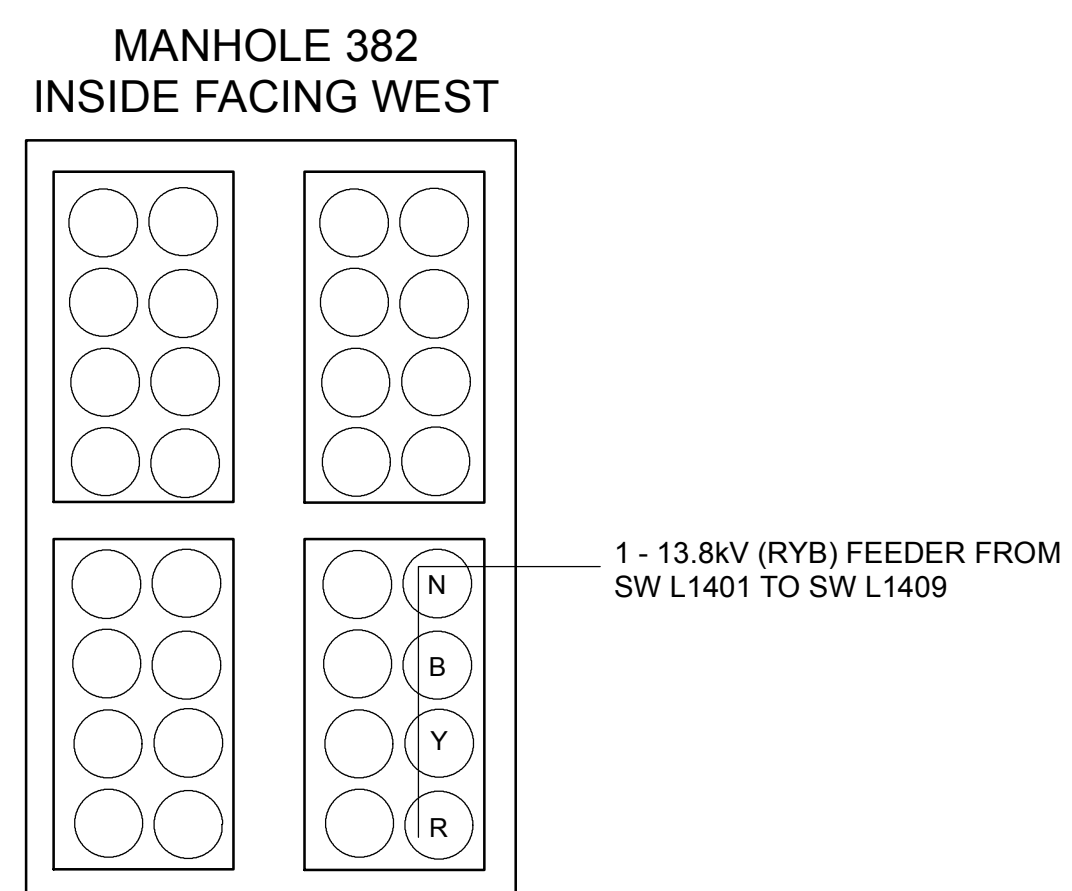
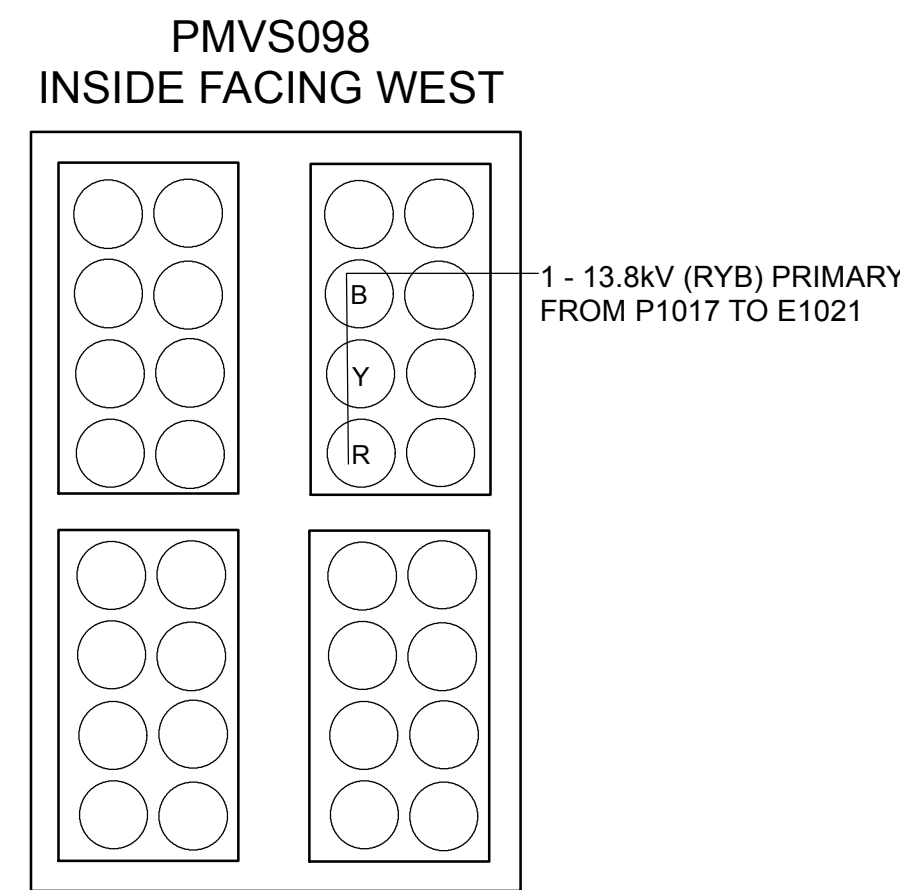
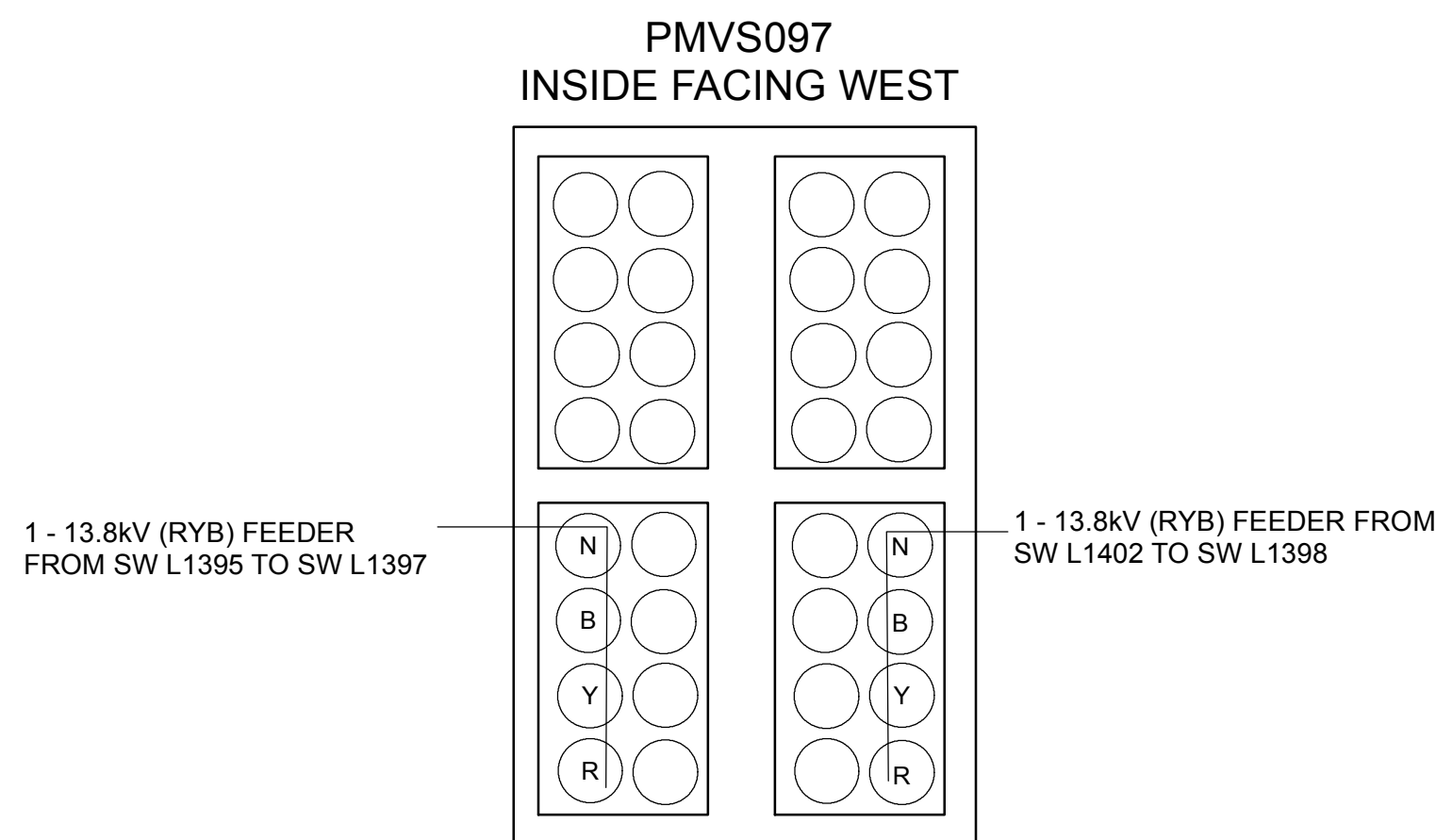
**PRELIMINARY  
NOT FOR CONSTRUCTION**

NO.	REVISION DESCRIPTION	DATE
		
TITLE		
<b>WELLINGTON ST W RECONSTRUCTION GORDON ST &amp; WELLINGTON ST W DUCT DETAILS #27C - 64</b>		
DRAWN	B. MCGREGOR	DESIGNED B. MCGREGOR
CHECKED		APPROVED
WORK REQUEST / JOB ORDER NUMBER SUMMARY		
GHESI (DIST) 682836-1 (CREL) OH Pole and Guying 744924-1 (CREL)	Contract (DIST) 682836-3 (CREL) Trench/Conduit 737954-3 (CFDR)	Connections of Cond. & Devices 744924-5 (CREL) 737954-5 (CFDR)
GHESI (DIST) 682836-2 (CREL) OH Conductors and Devices 744924-2 (CREL)	Contract (DIST) 682836-4 (CREL) U/G Conductor 737954-4 (CFDR)	Contract - U/G St. Lighting 682837-3
GHESI (DIST) 682836-6 (CREL) OH Trans 744924-6 (CREL)	GHESI (DIST) 682836-7 (CREL) U/G Trans 744924-7 (CREL)	GHESI - OH St. Lighting 682837-2
ON-STREET SERVICES 744924-14/15 (CREL)		GHESI - U/G St. Lighting 682837-5
SCALE	N.T.S.	DWG. NO. 2012014-RC15-F
DATE	2013/03/06	



**PRELIMINARY  
NOT FOR CONSTRUCTION**

NO.	REVISION DESCRIPTION	DATE
TITLE		
<b>WELLINGTON ST W RECONSTRUCTION GORDON ST &amp; WELLINGTON ST W DUCT DETAILS 65-102</b>		
DRAWN	B. MCGREGOR	DESIGNED B. MCGREGOR
CHECKED		APPROVED
WORK REQUEST / JOB ORDER NUMBER SUMMARY		
GHESI (DIST) OH Pole and Gearing	652836-1 (CREL) 744924-1 (CREL)	Contract (DIST) Trench/Conduit 652836-3 (CREL) 744924-3 (CREL) 737954-3 (CFDR)
GHESI (DIST) OH Conductors and Devices	652836-2 (CREL) 744924-2 (CREL)	Contract (DIST) U/G Conductor 652836-4 (CREL) 744924-4 (CREL) 737954-4 (CFDR)
GHESI (DIST) OH Trans	652836-6 (CREL) 744924-6 (CREL)	Contract - U/G St. Lighting 652837-3 (CREL) 744924-7 (CREL)
ON-STREET SERVICES	652836-14/15 (CREL) 744924-14/15 (CREL)	GHESI - OH St. Lighting 652837-2 (CREL) GHESI - U/G St. Lighting 652837-5 (CREL)
SCALE	N.T.S.	DWG. NO. 2012014-RC21-G
DATE	2013/03/06	



**PRELIMINARY  
NOT FOR CONSTRUCTION**

NO.	REVISION DESCRIPTION	DATE
<b>TITLE</b> WELLINGTON ST W RECONSTRUCTION GORDON ST & WELLINGTON ST W MANHOLE DETAILS		
DRAWN	L.NANIBUSH	DESIGNED B. MCGREGOR
CHECKED		APPROVED
<b>WORK REQUEST / JOB ORDER NUMBER SUMMARY</b>		
GHESI (DIST) 682836-1 (CREL) O/H Poles and Guying 744924-1 (CREL)	Contract (DIST) 682836-3 (CREL) Trench/Conduit 744924-3 (CREL) 737954-3 (CFDR)	Connections of Cond. & Devices 682836-5 (CREL) 744924-5 (CREL) 737954-5 (CFDR)
GHESI (DIST) 682836-2 (CREL) O/H Conductors and Devices 744924-2 (CREL)	Contract (DIST) 682836-4 (CREL) U/G Conductor 744924-4 (CREL) 737954-4 (CFDR)	Contract - U/G St. Lighting 682837-3
GHESI (DIST) 682836-6 (CREL) O/H Trans 744924-6 (CREL)	GHESI (DIST) 682836-7 (CREL) U/G Trans 744924-7 (CREL)	GHES - O/H St. Lighting 682837-2
ON-STREET SERVICES 682836-14/15 (CREL) 744924-14/15 (CREL)		GHES - U/G St. Lighting 682837-5
SCALE	N.T.S	DWG. NO.
DATE	2013/03/06	2012014-RC21-H



PLANNING, BUILDING, ENGINEERING AND ENVIRONMENT  
ENGINEERING SERVICES

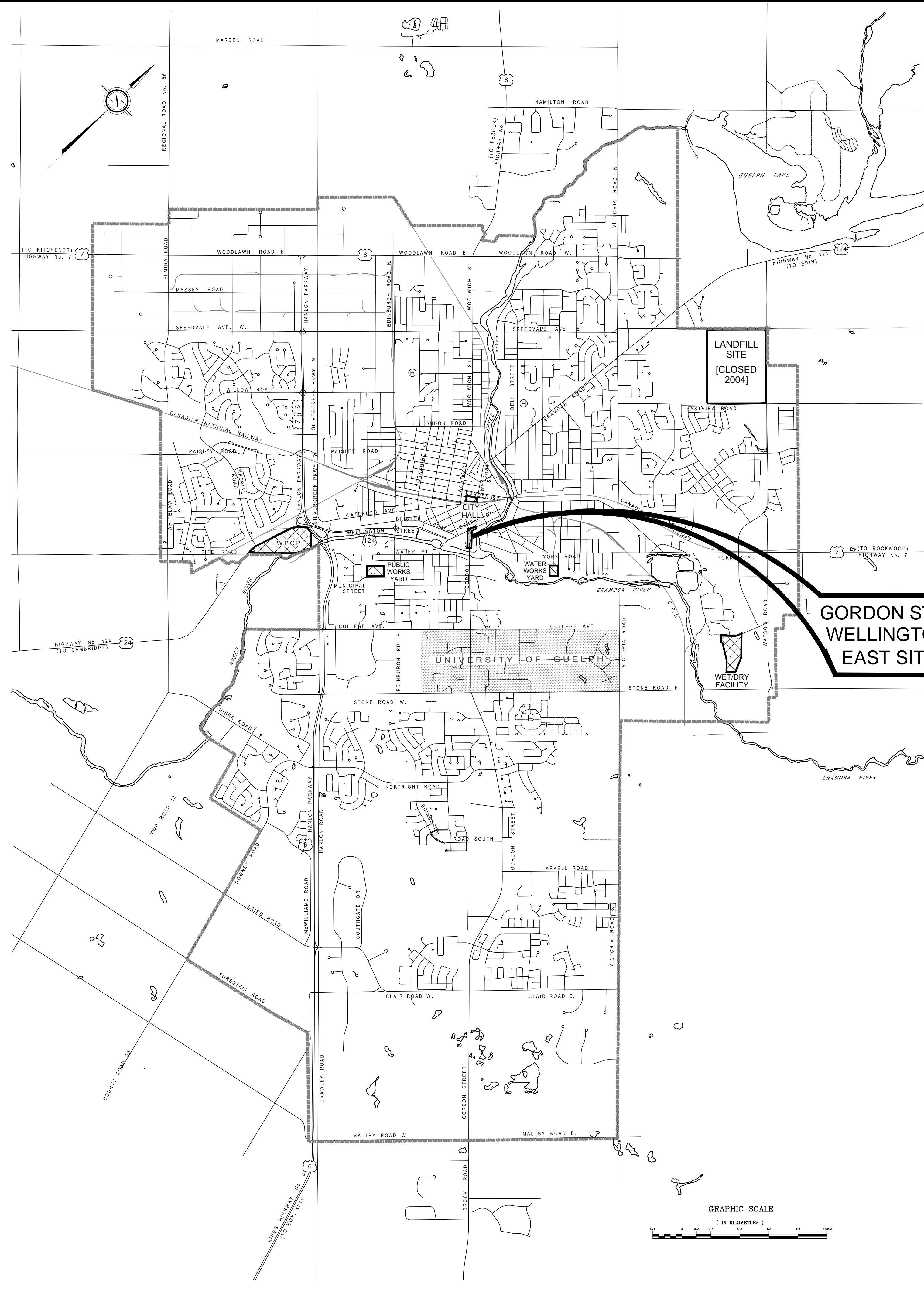
TENDER DRAWINGS

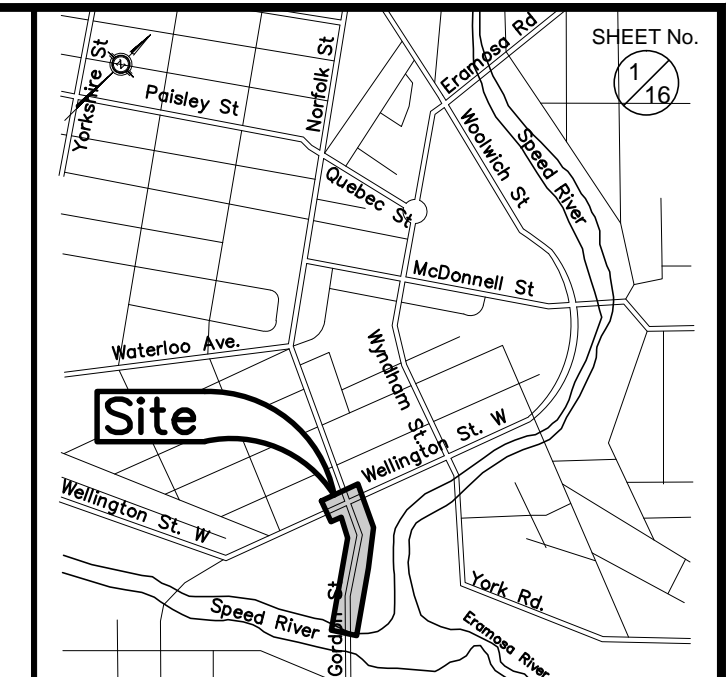
GORDON STREET / WELLINGTON STREET EAST  
RECONSTRUCTION

WELLINGTON STREET TO GORDON STREET BRIDGE  
CONTRACT 2-1313

LIST OF DRAWINGS

<u>PLAN</u>	<u>DESCRIPTION</u>
D-01	EXISTING CONDITIONS - sta. 0+000 to sta. 0+240
D-02	EXISTING CONDITIONS - sta. 0+240 to sta. 0+390
D-03	EXISTING CONDITIONS - sta. 0+390 to sta. 0+420
D-04	REMOVALS - sta. 0+000 to sta. 0+240
D-05	REMOVALS - sta. 0+240 to sta. 0+390
D-06	REMOVALS - sta. 0+390 to sta. 0+420
D-07	RECONSTRUCTION - sta. 0+000 to sta. 0+240
D-08	RECONSTRUCTION - sta. 0+240 to sta. 0+390
D-09	RECONSTRUCTION - sta. 0+390 to sta. 0+420
D-10	PARALLEL PARKING DETAILS
D-11	PAVEMENT MARKING PLAN
E-1	STREET LIGHTING - ELECTRICAL LAYOUT
E-2	STREET LIGHTING - ELECTRICAL WIRING DIAGRAM AND LOAD SUMMARY
RC21-D	GUELPH HYDRO - CIVIL DETAILS
RC21-E	GUELPH HYDRO - CIVIL DETAILS #1-27B
RC15-F	GUELPH HYDRO - CIVIL DETAILS #27C-64
RC21-G	GUELPH HYDRO - CIVIL DETAILS 65-102
RC21-H	GUELPH HYDRO - MANHOLE DETAILS





KEY PLAN Scale: NOT TO SCALE

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No.	DATE	DESCRIPTION	BY:	CHKD.

ISSUES/REVISIONS

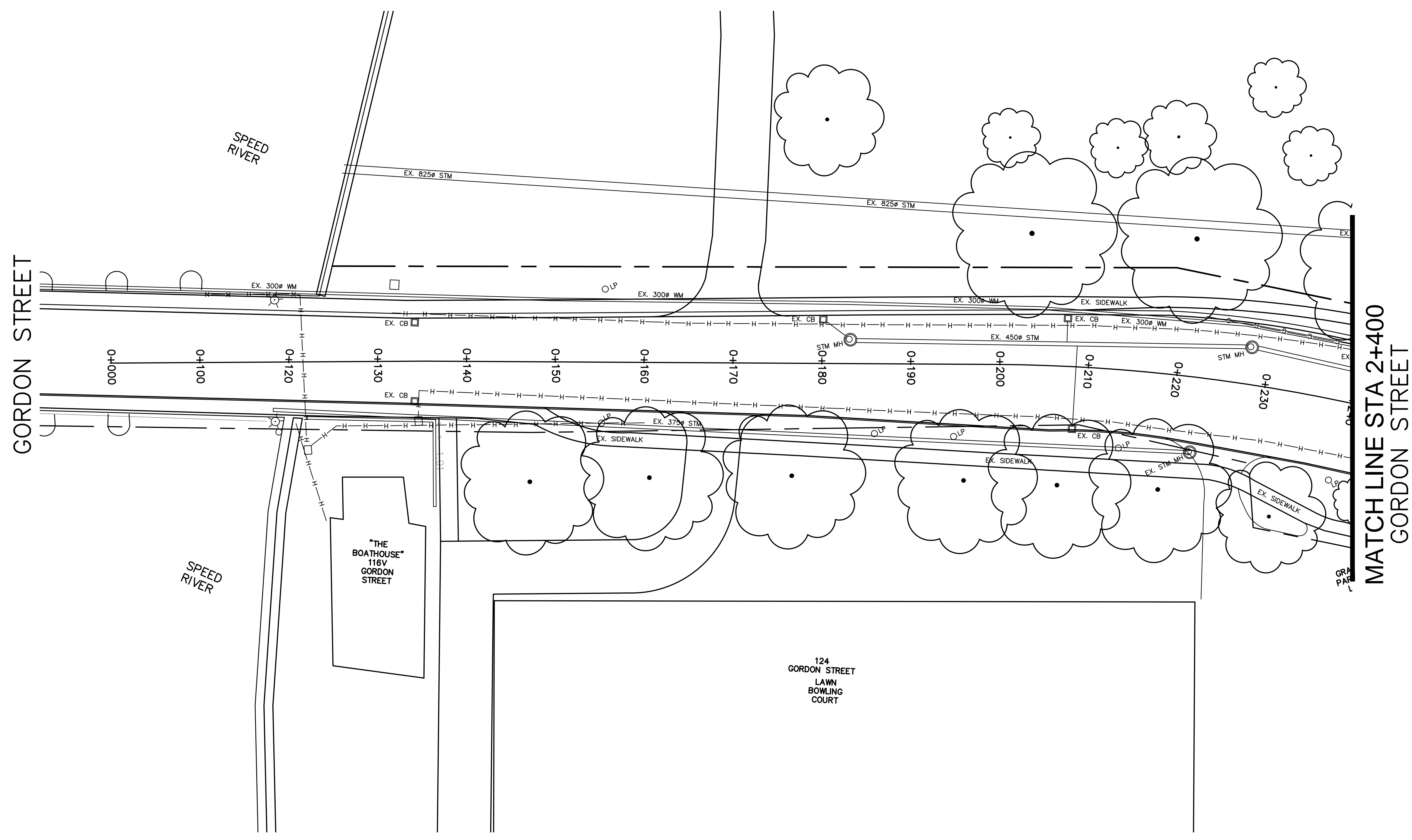
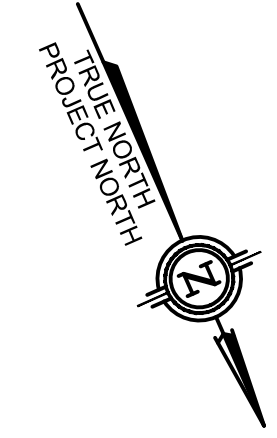


ENGINEERING SERVICES

GORDON STREET / WELLINGTON STREET EAST RECONSTRUCTION  
Wellington St. to Gordon St. Bridge

EXISTING CONDITIONS  
Sta 0+000 to Sta 0+240

SCALE: 1:250	CONSULTANT DRAWING No.
DATE DRAWN: AUGUST 2013	CITY CONTRACT No. 2-1313
DRAWN BY: WOB	CHECKED BY: IU
CITY REFERENCE No. D-01	REV. 0



GORDON STREET

MATCH LINE STA 2+400  
GORDON STREET

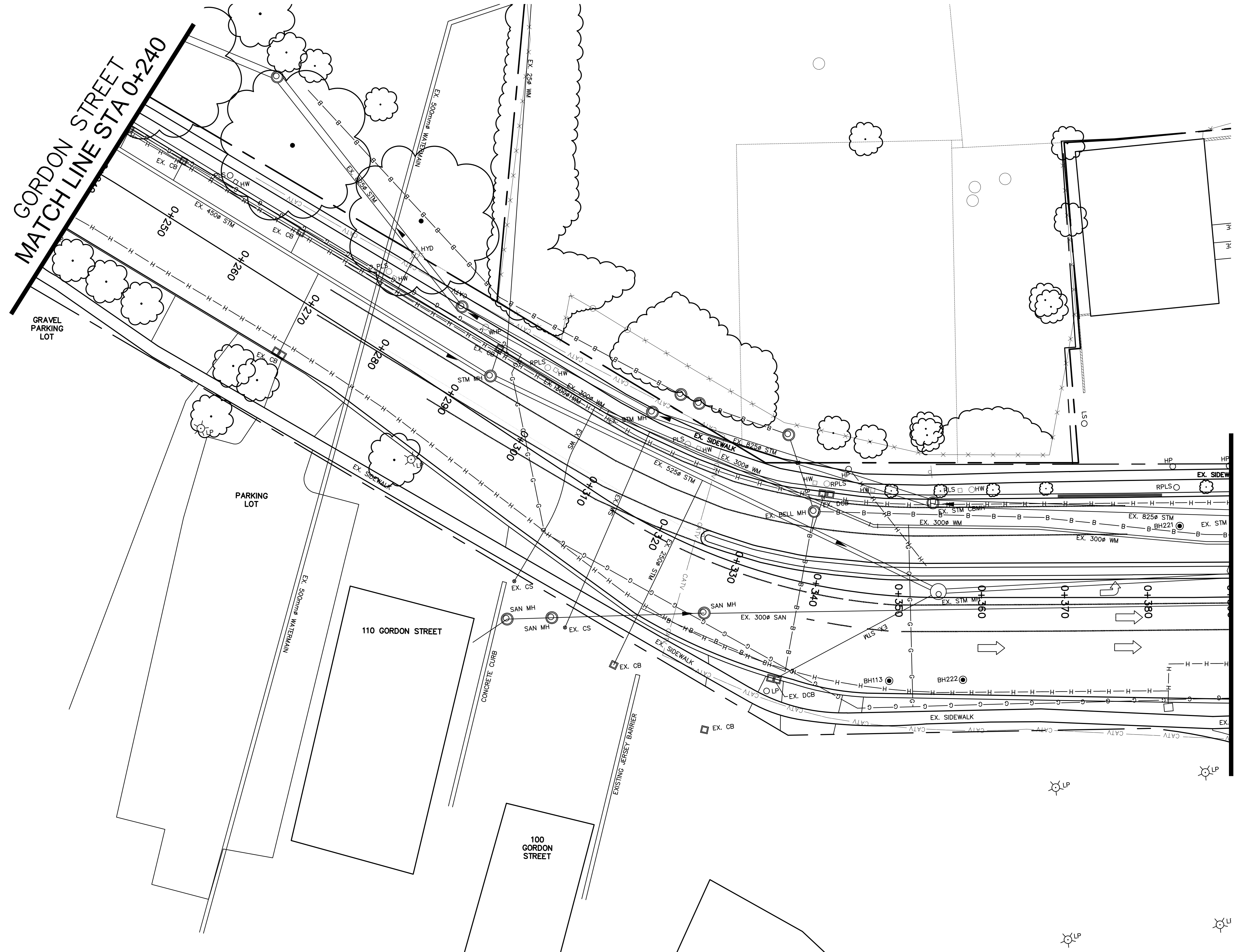
SPEED RIVER

SPEED RIVER

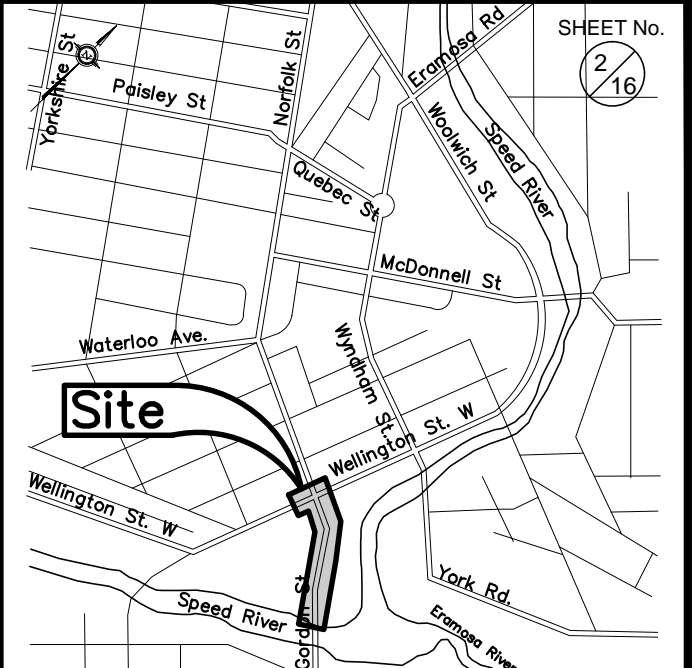
"THE BOATHOUSE"  
116V  
GORDON STREET

124  
GORDON STREET  
LAWN  
BOWLING  
COURT

GORDON STREET  
MATCH LINE STA 0+240



MATCH LINE STA 0+390  
GORDON STREET



KEY PLAN Scale : NOT TO SCALE

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No.	DATE	DESCRIPTION	BY:	CHKD.

ISSUES/REVISIONS



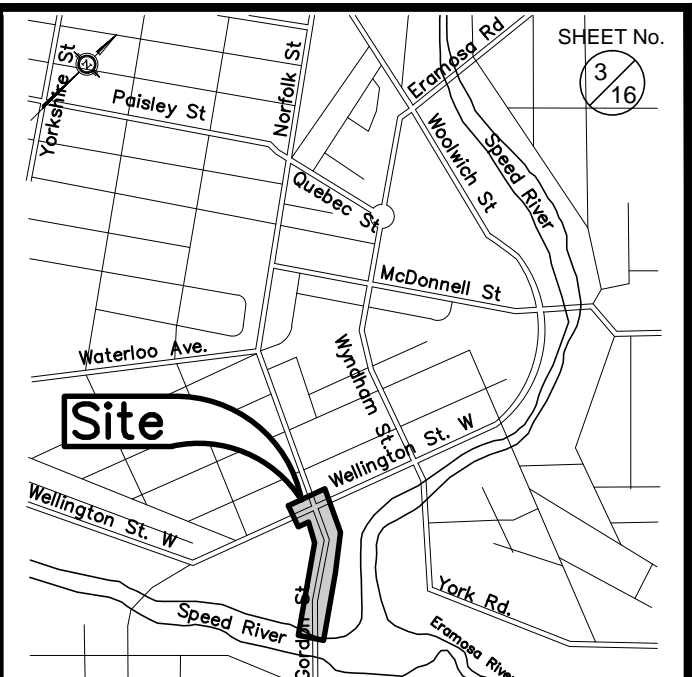
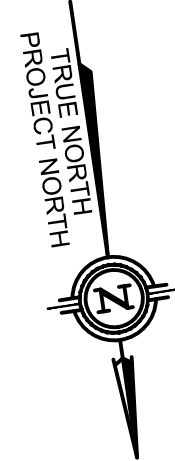
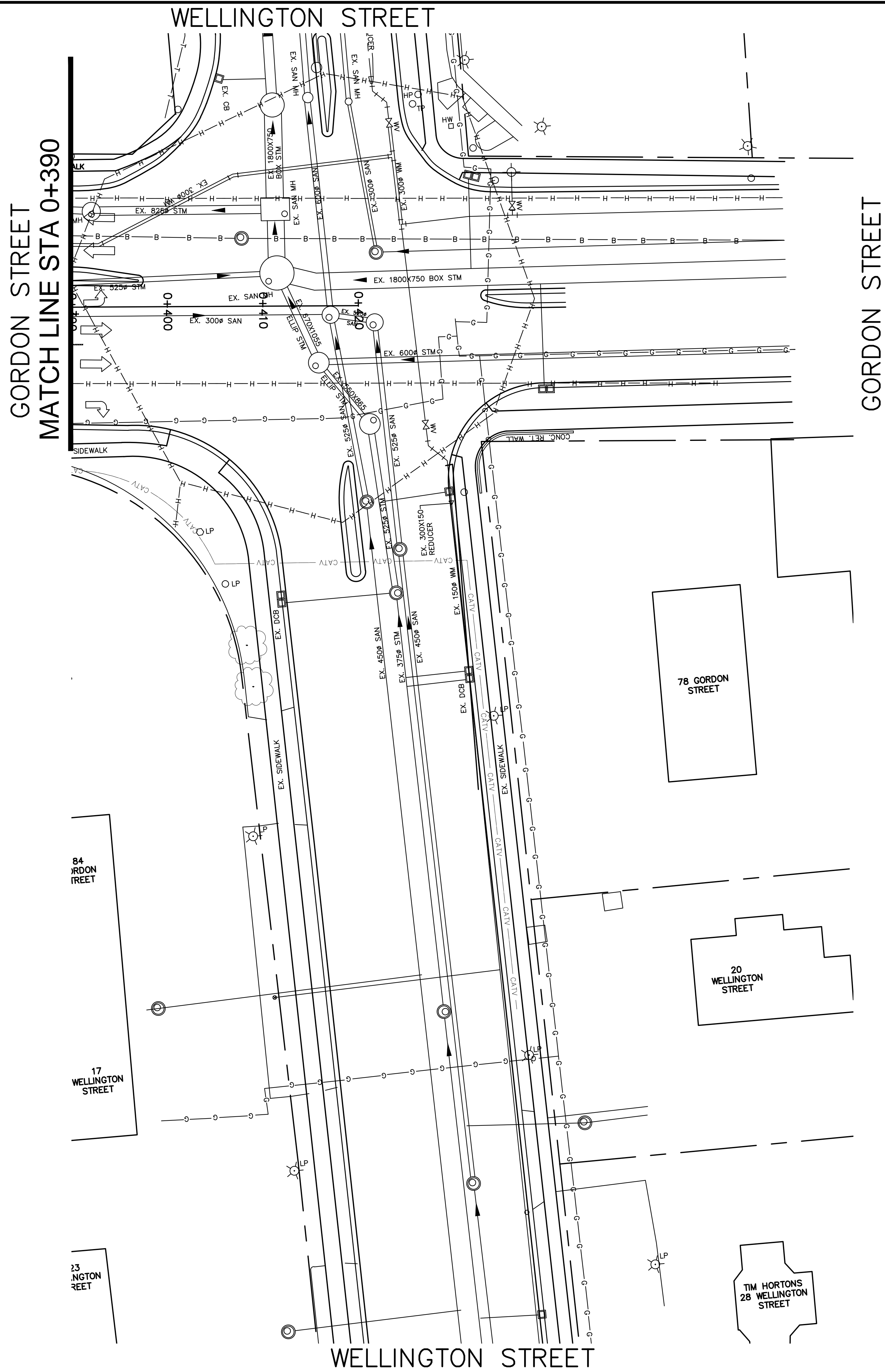
ENGINEERING SERVICES

GORDON STREET / WELLINGTON STREET EAST RECONSTRUCTION  
Wellington St. to Gordon St. Bridge

EXISTING CONDITIONS  
Sta 0+240 to Sta 0+390

SCALE: 1:250	CONSULTANT DRAWING No.
DATE DRAWN: August 2013	CITY CONTRACT No. 2-1313
DRAWN BY: WOB	CHECKED BY: IU
CITY REFERENCE No. D-02	REV. 0





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No.	DATE	DESCRIPTION	BY:	CHKD.

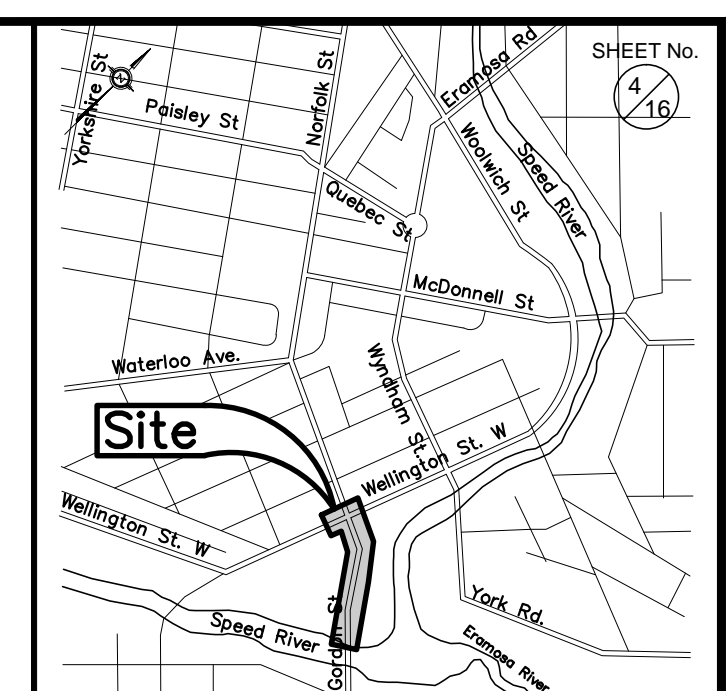
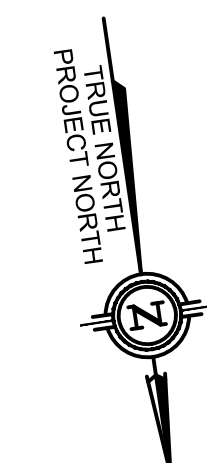
ISSUES/REVISIONS



GORDON STREET / WELLINGTON STREET EAST RECONSTRUCTION  
Wellington St. to Gordon St. Bridge

EXISTING CONDITIONS  
Sta 0+390 to Sta 0+420

SCALE: 1:250	CONSULTANT DRAWING No.
DATE DRAWN: August 2013	CITY CONTRACT No. 2-1313
DRAWN BY: WOB	CHECKED BY: IU
CITY REFERENCE No. D-03	REV. 0



KEY PLAN Scale: NOT TO SCALE

- LEGEND**
- MILL ASPHALT FROM DRIVEWAYS / ROADWAY AND REMOVE CURB
  - REMOVE SIDEWALK
  - REMOVE SANITARY / STORM SEWERS AND WATERMAIN
  - R REMOVE STRUCTURES (DISPOSE OFF SITE)
  - A ADJUST STRUCTURES BY CONTRACTOR
  - REMOVE TREE

THE POSITION OF POLES, LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

No.	DATE	DESCRIPTION	BY:	CHKD.

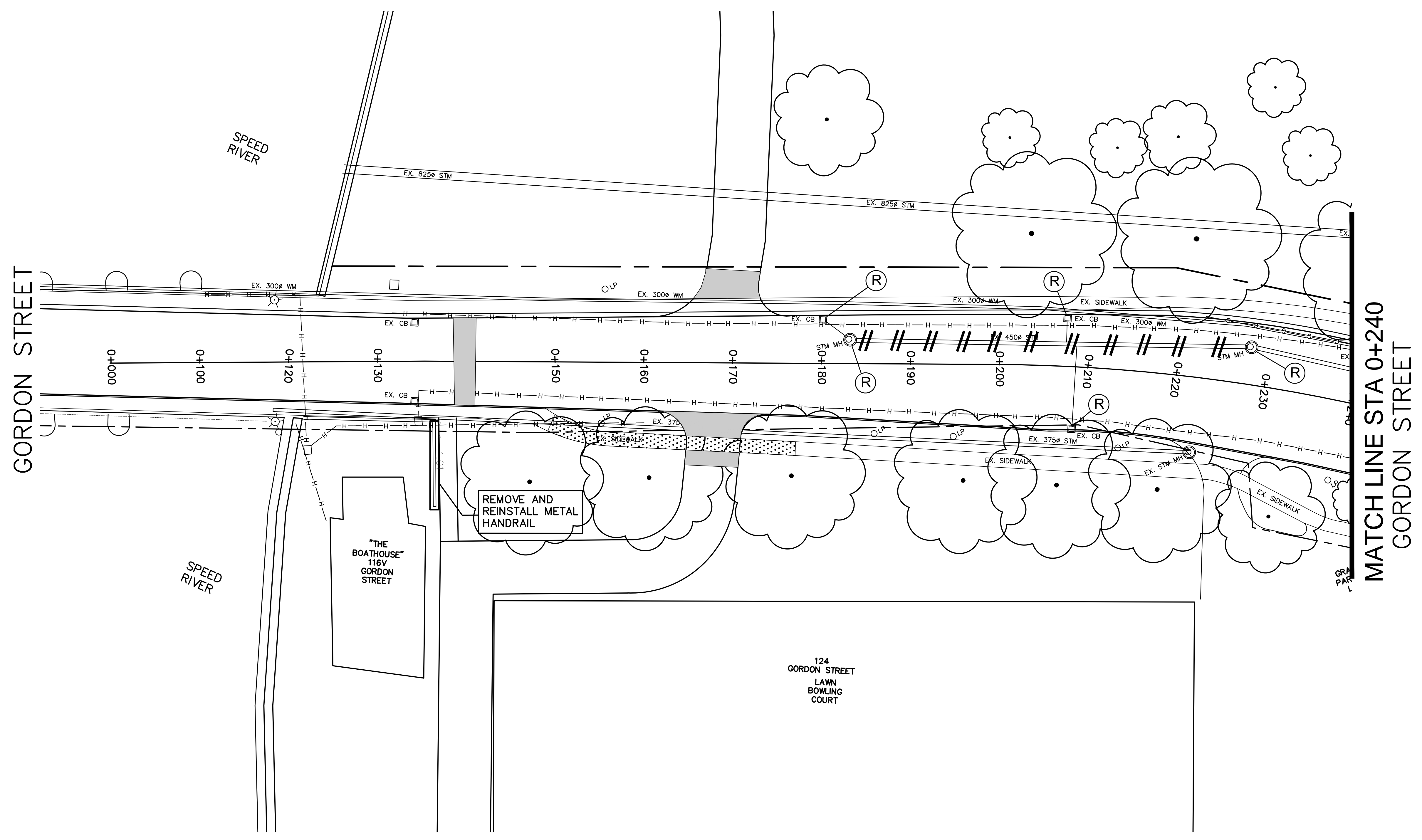
**ISSUES/REVISIONS**

**ENGINEERING SERVICES**

**GORDON STREET / WELLINGTON STREET EAST RECONSTRUCTION**  
Wellington St. to Gordon St. Bridge

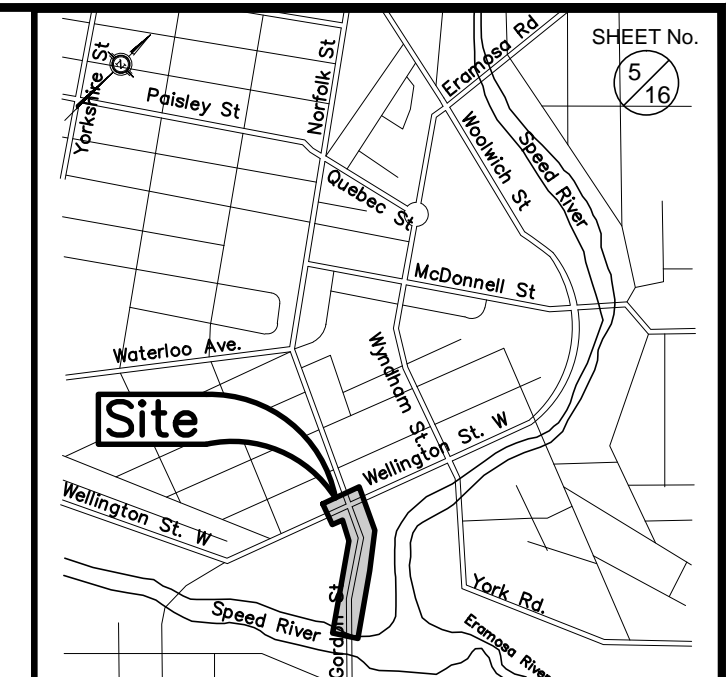
**REMOVALS**  
Sta 0+000 to Sta 0+240

SCALE: 1:250	CONSULTANT DRAWING No.
DATE DRAWN: AUGUST 2013	CITY CONTRACT No. 2-1313
DRAWN BY: WOB	CHECKED BY: IU
CITY REFERENCE No. D-04	REV. 0



GORDON STREET

MATCH LINE STA 0+240  
GORDON STREET



**LEGEND**

- MILL ASPHALT FROM DRIVEWAYS / ROADWAY AND REMOVE CURB
- REMOVE SIDEWALK
- REMOVE SANITARY / STORM SEWERS AND WATERMAIN
- REMOVE STRUCTURES (DISPOSE OFF SITE)
- ADJUST STRUCTURES BY CONTRACTOR
- REMOVE TREE

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No.	DATE	DESCRIPTION	BY:	CHKD.

**ISSUES/REVISIONS**

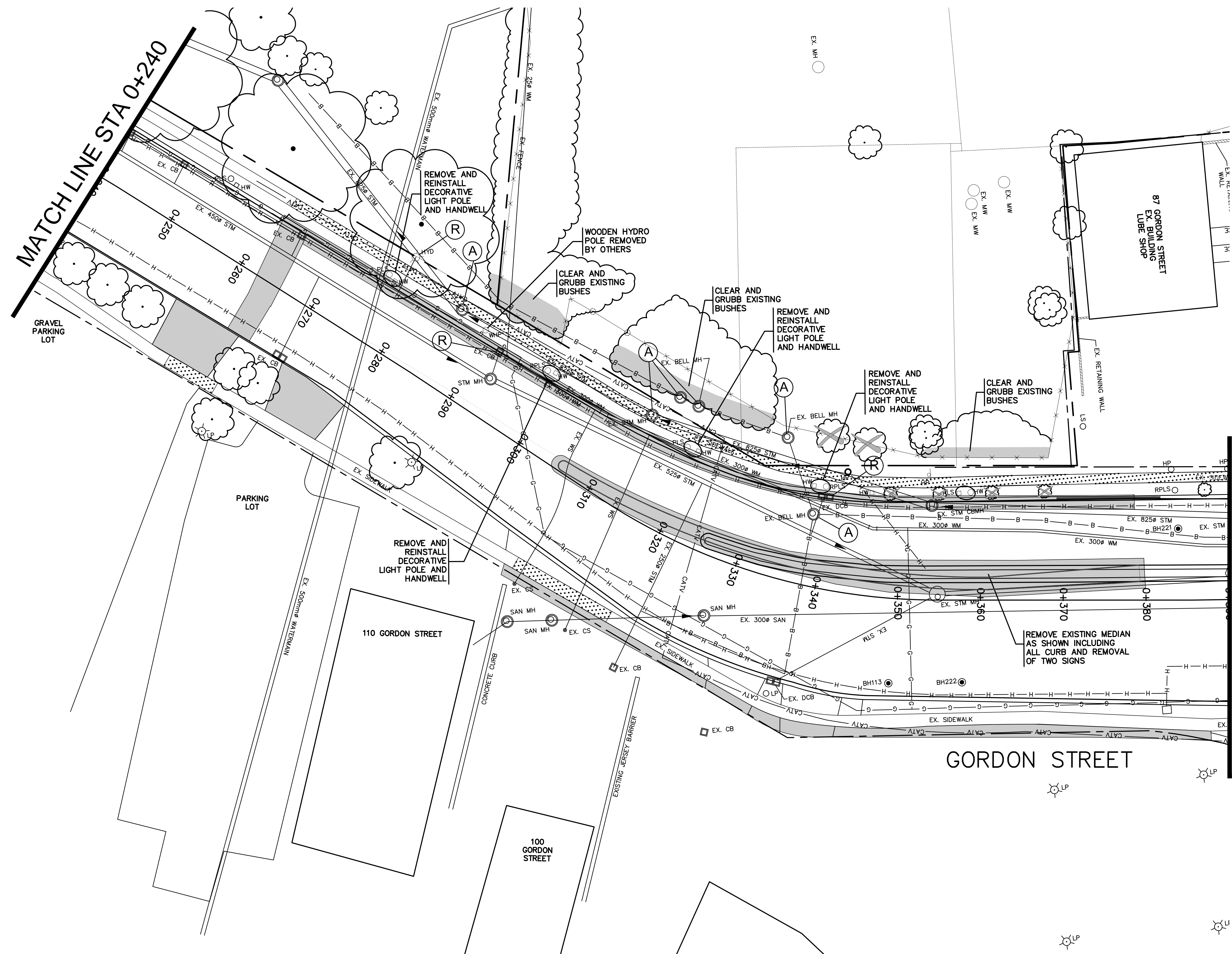


ENGINEERING SERVICES

**GORDON STREET RECONSTRUCTION**  
Wellington St. to Speed River  
City of Guelph

**REMOVALS**  
Sta 0+240 to Sta 0+390

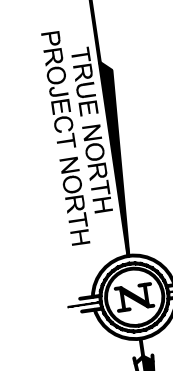
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DATE DRAWN: August 2013	CITY CONTRACT No. 2-1313
DRAWN BY: WOB	CHECKED BY: IU
CITY REFERENCE No. D-05	REV. 0



**MATCH LINE STA 0+240**

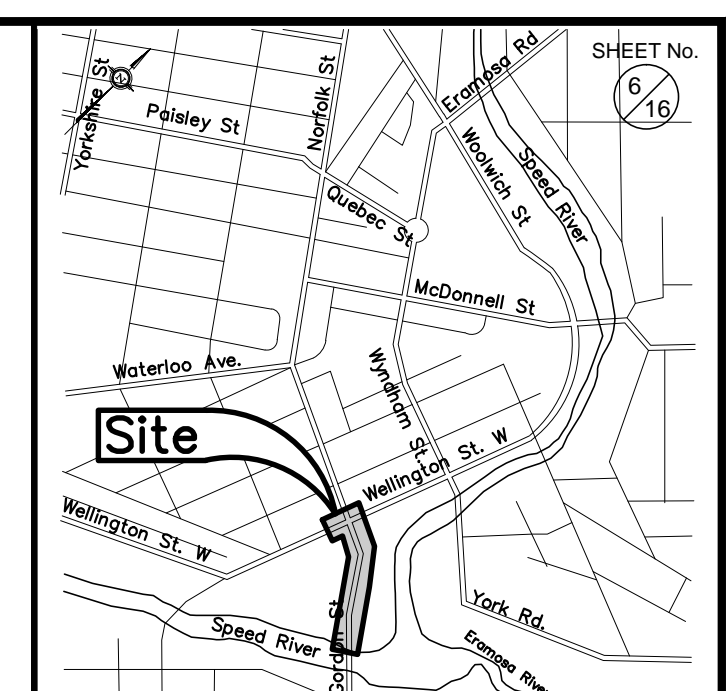
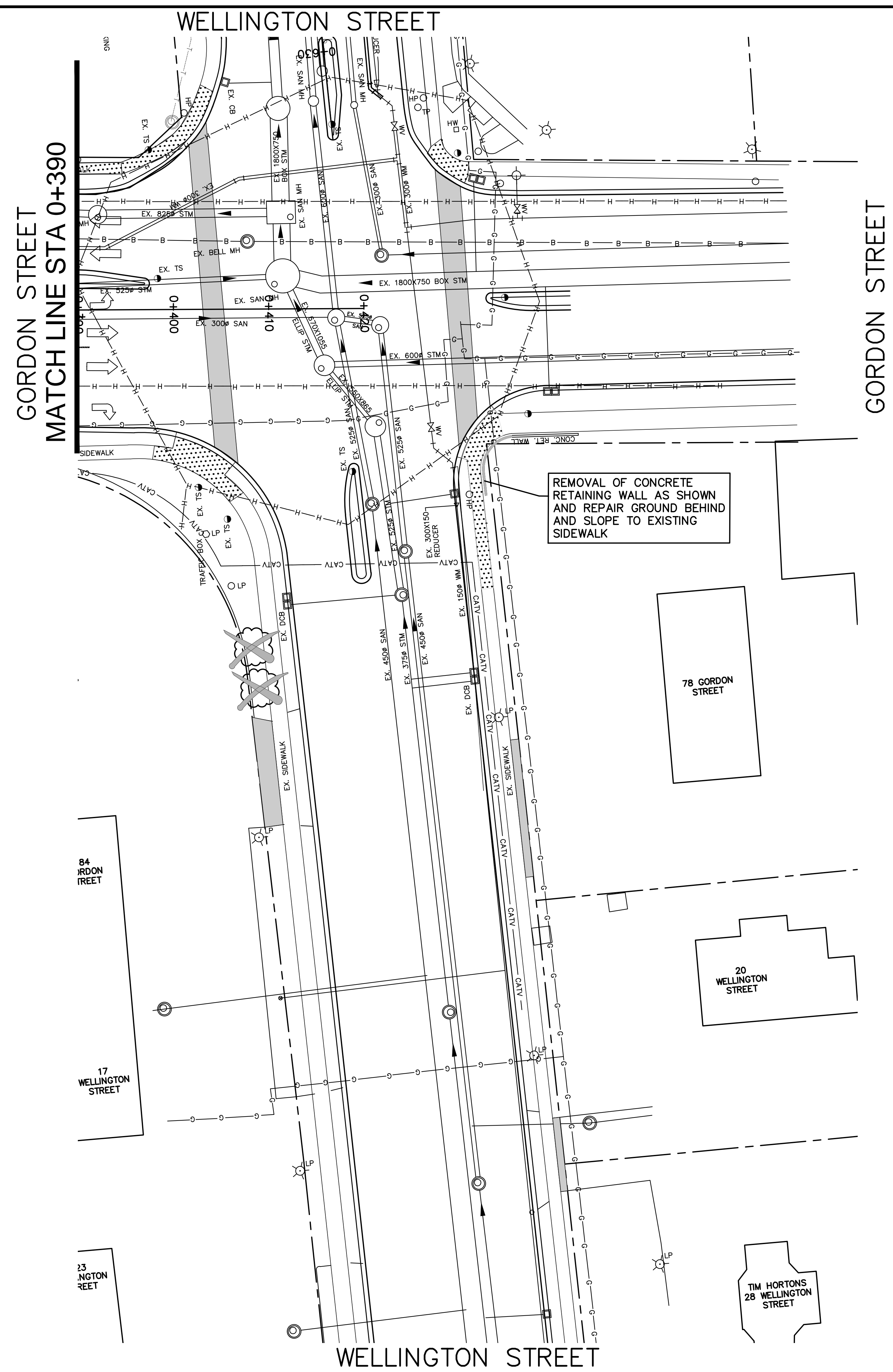
**MATCH LINE STA 0+390**

**GORDON STREET**

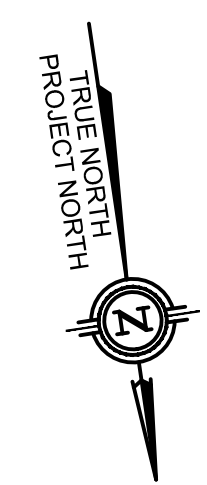


SHEET No.  
5/16

TRIBE NORTH  
PROJECT NORTH



KEY PLAN Scale : NOT TO SCALE



- LEGEND**
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  - REMOVE SIDEWALK
  - REMOVE SANITARY / STORM SEWERS AND WATERMAIN
  - REMOVE STRUCTURES (DISPOSE OFF SITE)
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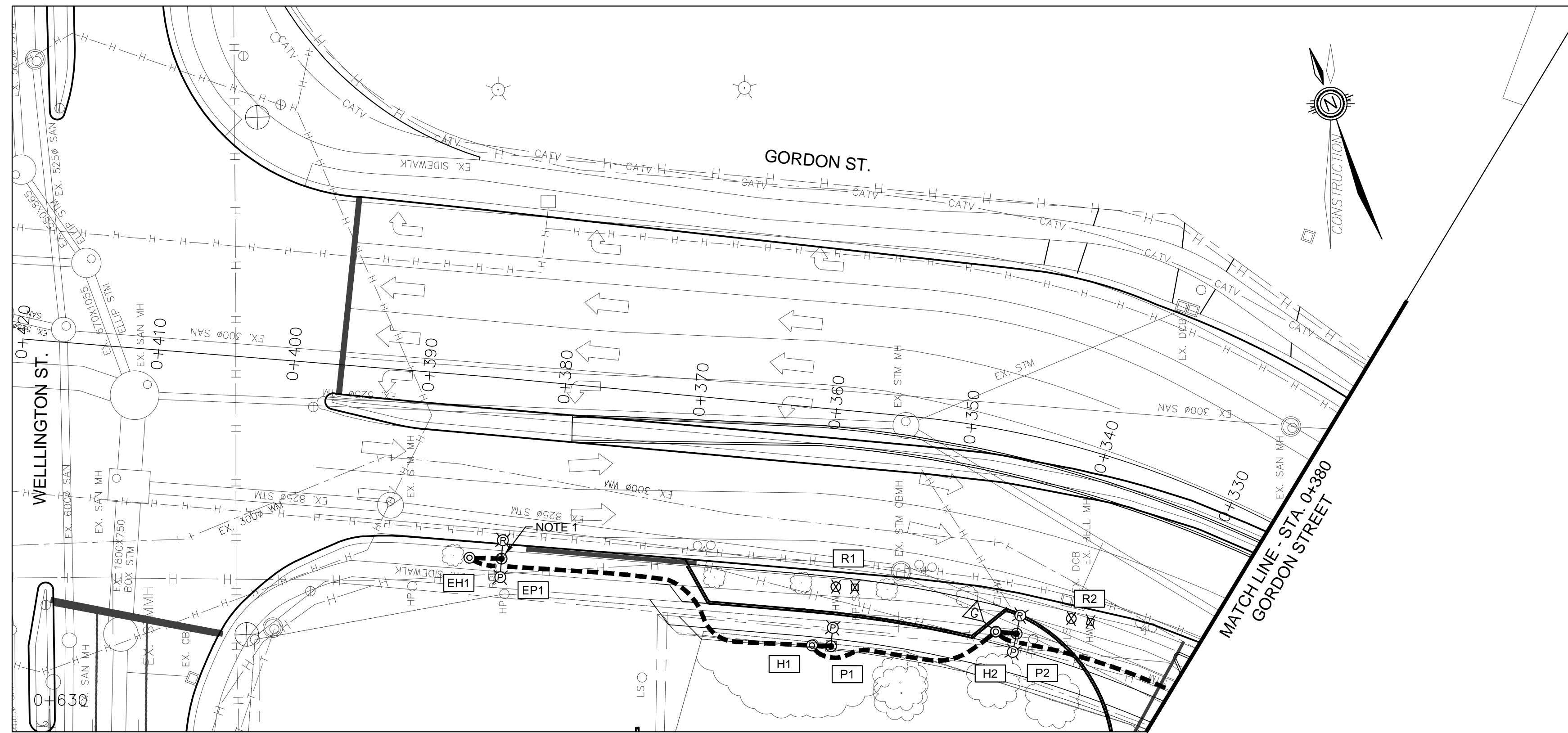
ISSUES/REVISIONS



**GORDON STREET RECONSTRUCTION**  
Wellington St. to Speed River  
City of Guelph

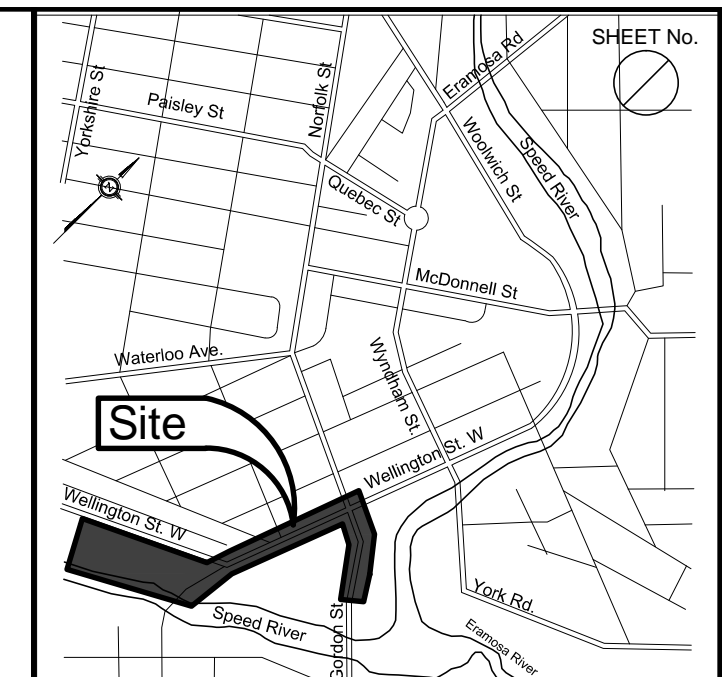
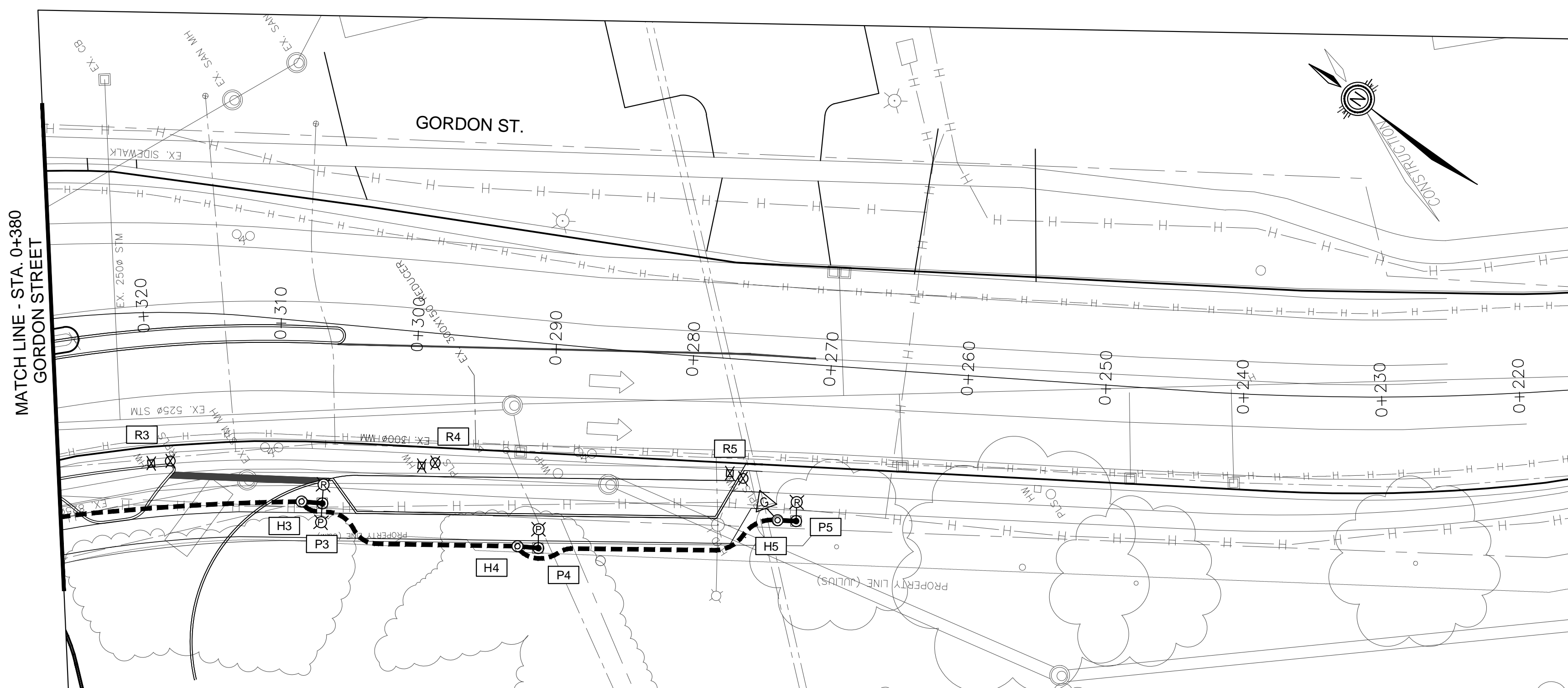
**REMOVALS**  
Sta 0+380 to Sta 0+420

SCALE:	1:250	CONSULTANT DRAWING No.	
DATE DRAWN:	August 2013	CITY CONTRACT No.	2-1313
DRAWN BY:	WOB	CHECKED BY:	IU
CITY REFERENCE No.	D-06	REV.	0



**NOTES**

1. ALL LIGHTING AND WIRING ON EXISTING POLES AND JUNCTION BOXES (EP AND EH) SHALL REMAIN IN PLACE UNLESS SHOWN TO REMOVE.
2. EXISTING WIRING TO BE SPLICED IN NEW 460mm HANDHOLE ENCASED IN A SCOTCHCAST SPLICEKIT.



KEY PLAN Scale : NOT TO SCALE

**LEGEND**

- DIRECT BURIED CONDUIT
- CONCRETE ENCASED CONDUIT
- ⊙ STREET LIGHT JUNCTION BOX
- ⊕ GROUND ELECTRODE
- ⊙ 28" DECORATIVE CONCRETE POLE
- ⊙ MH - ROADWAY LUMINAIRE
- ⊙ MH - PEDESTRIAN LUMINAIRE
- HP ⊙ EXIST. LUMINAIRE & BRKT TO BE REMOVED
- HCA/BELL— HYDRO / BELL CABLE AERIAL
- [H1] JUNCTION BOX IDENTIFICATION CODE
- [P1] LIGHTING POLE IDENTIFICATION CODE
- [EP1] EXISTING POLE IDENTIFICATION CODE
- [HH1] EXISTING POLE IDENTIFICATION CODE
- ⊙ 460mm ELECTRICAL HANDHOLE

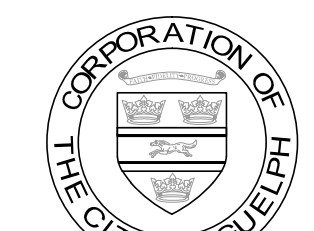
**Lumentech**  
engineers inc.

550 Alder Road, Suite 211, Markham, Ontario L3R 6A8  
Tel: (905)415-0110 Fax: (905)415-0475

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1 JUN 1013	ISSUED FOR TENDER	J.J.	J.B.
No.	DATE	DESCRIPTION	BY: CHKD.

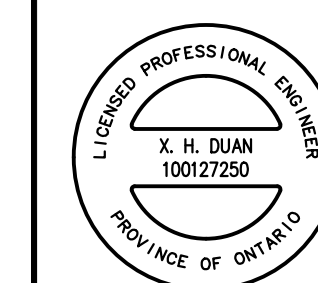
**ISSUES/REVISIONS**



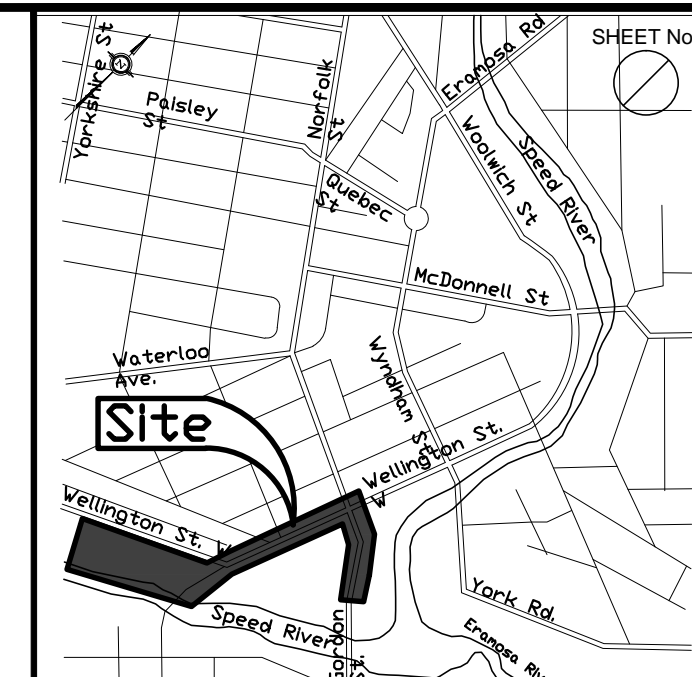
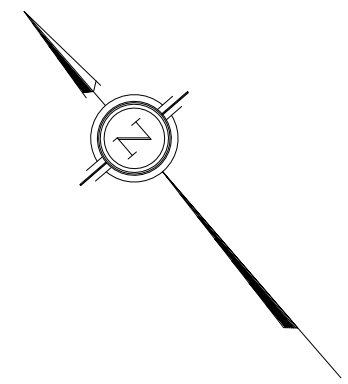
ENGINEERING SERVICES

GORDON STREET & WELLINGTON STREET

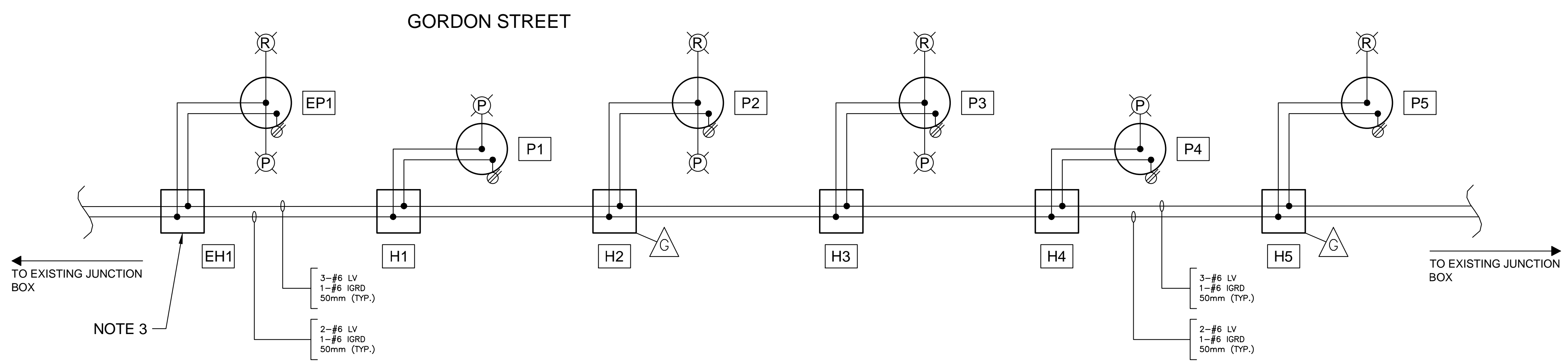
ELECTRICAL LAYOUT 2



SCALE: 1:250	CONSULTANT DRAWING No. <b>13780-E1</b>
DATE DRAWN: June 2013	CITY CONTRACT No.
DRAWN BY: J.J.	CHECKED BY: J.B.
CITY REFERENCE No.	REV. <b>1</b>



KEY PLAN Scale : NOT TO SCALE



**LOAD SUMMARY**

NEW POLE RECEPTACLE LOAD	= 5 x 300W = 1,500W
NEW STREET LIGHTING LOAD	= 3 x 300W = 900W
NEW PEDESTRIAN LIGHTING LOAD	= 4 x 210W = 840W
<b>TOTAL LOAD</b>	<b>= 3,240W</b>

**NOTES**

1. 35W BALLAST LOSS FOR 175W M.H. LUMINAIRE HAS BEEN INCLUDED.
2. 50W BALLAST LOSS FOR 250W M.H. LUMINAIRE HAS BEEN INCLUDED.
3. EXISTING WIRING TO BE SPLICED AT HANDHOLE INSIDE A SCOTCHCAST SPLICEKIT.

**Lumentech**  
engineers inc.  
550 Alder Road, Suite 211, Markham, Ontario L3R 6A8  
Tel: (905)415-0110 Fax: (905)415-0475

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No.	DATE	DESCRIPTION	BY:	CHKD.
1	JUN 10 13	ISSUED FOR TENDER	J.J.	J.B.

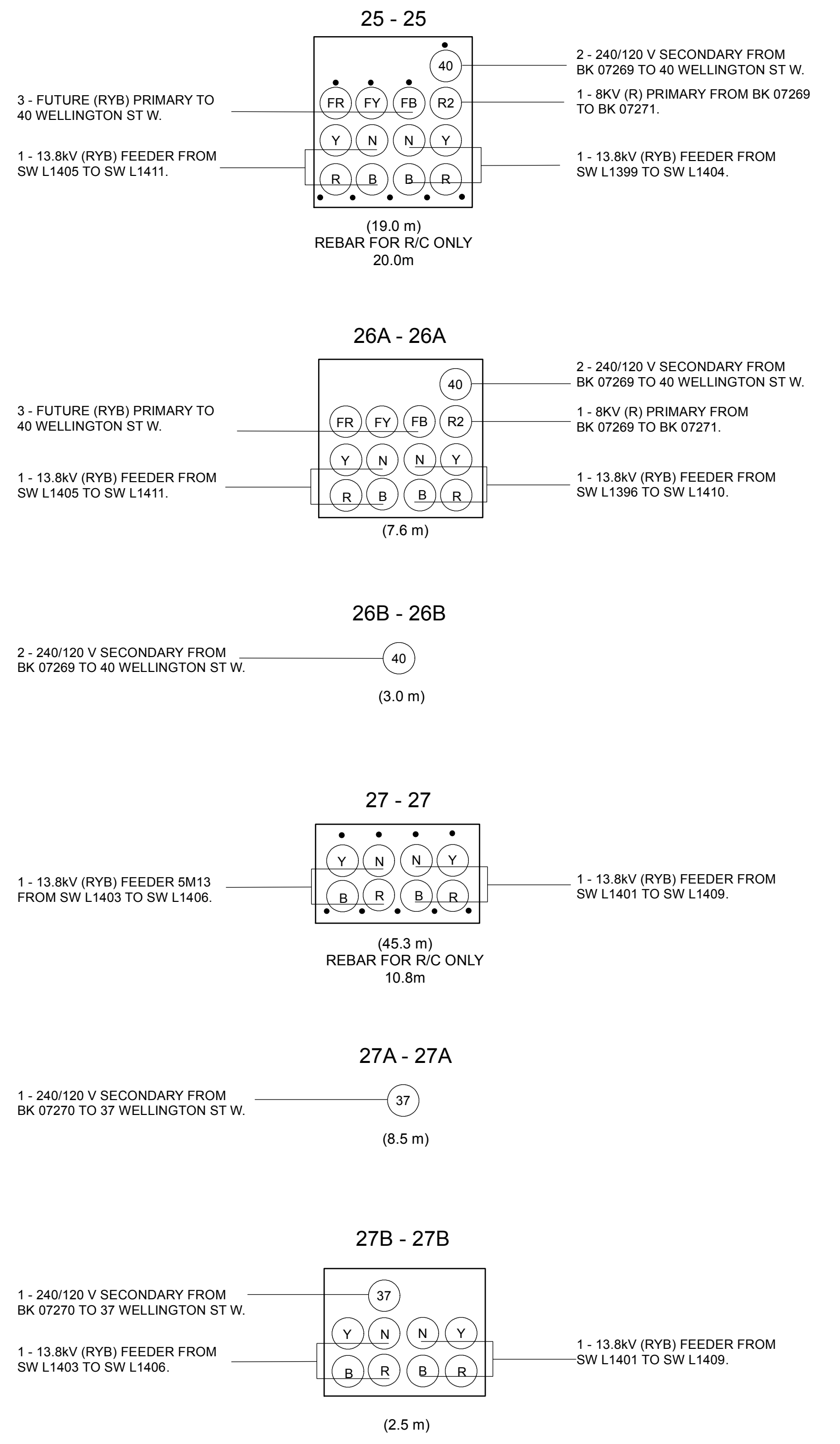
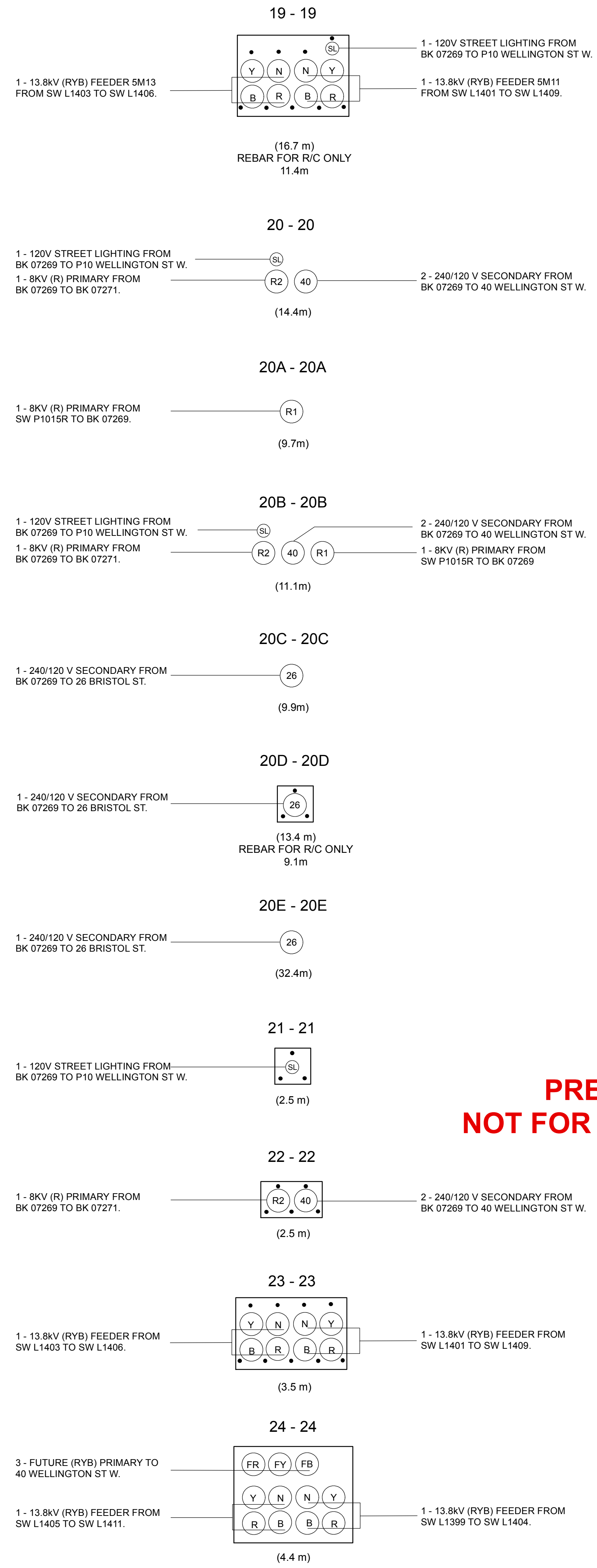
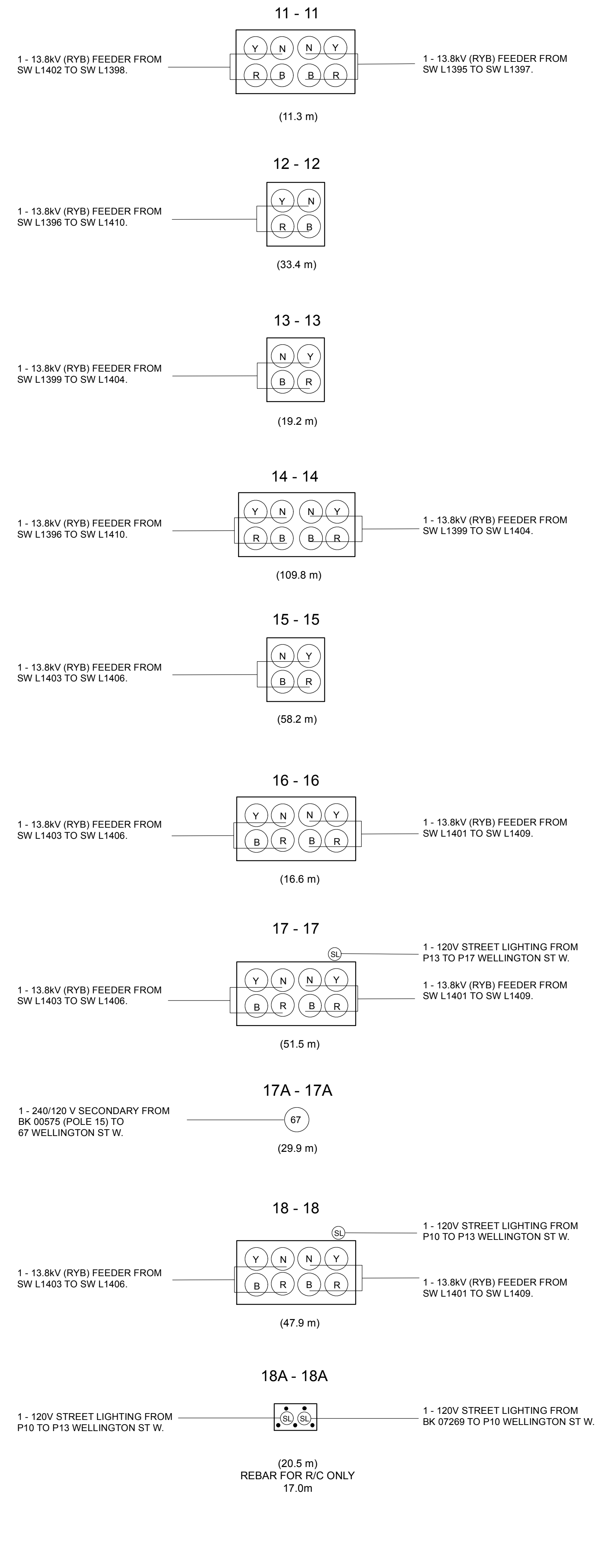
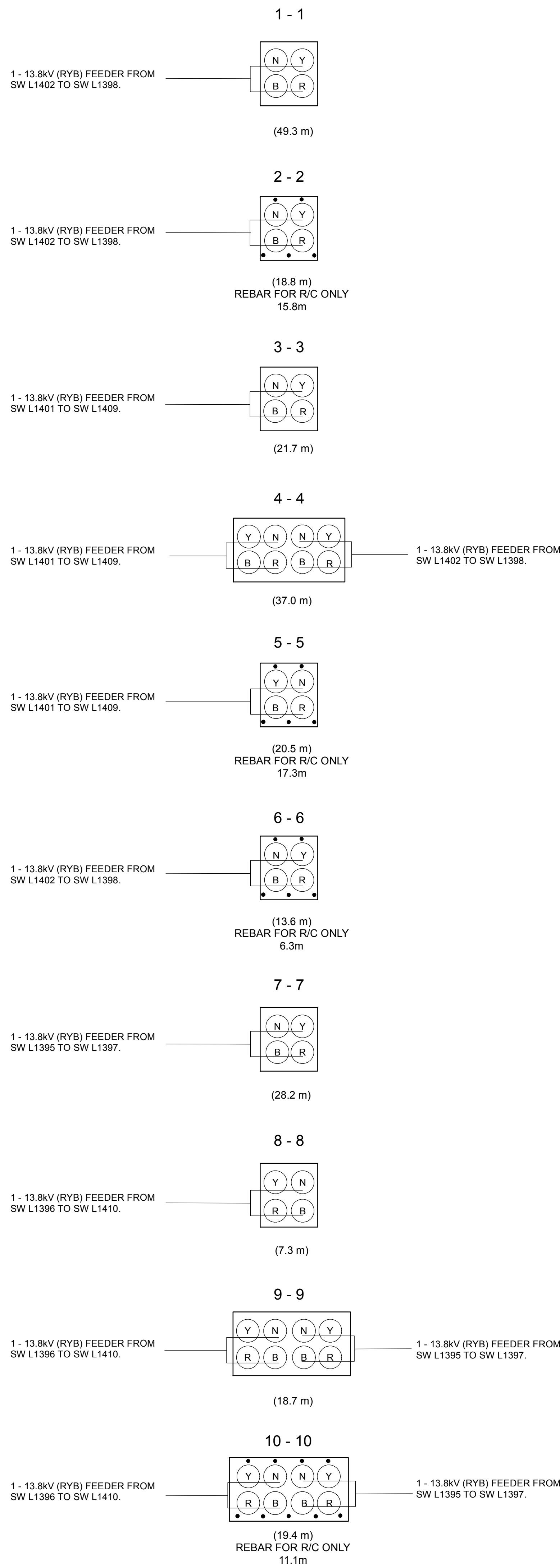
ISSUES/REVISIONS

**ENGINEERING SERVICES**

**GORDON STREET & WELLINGTON STREET**

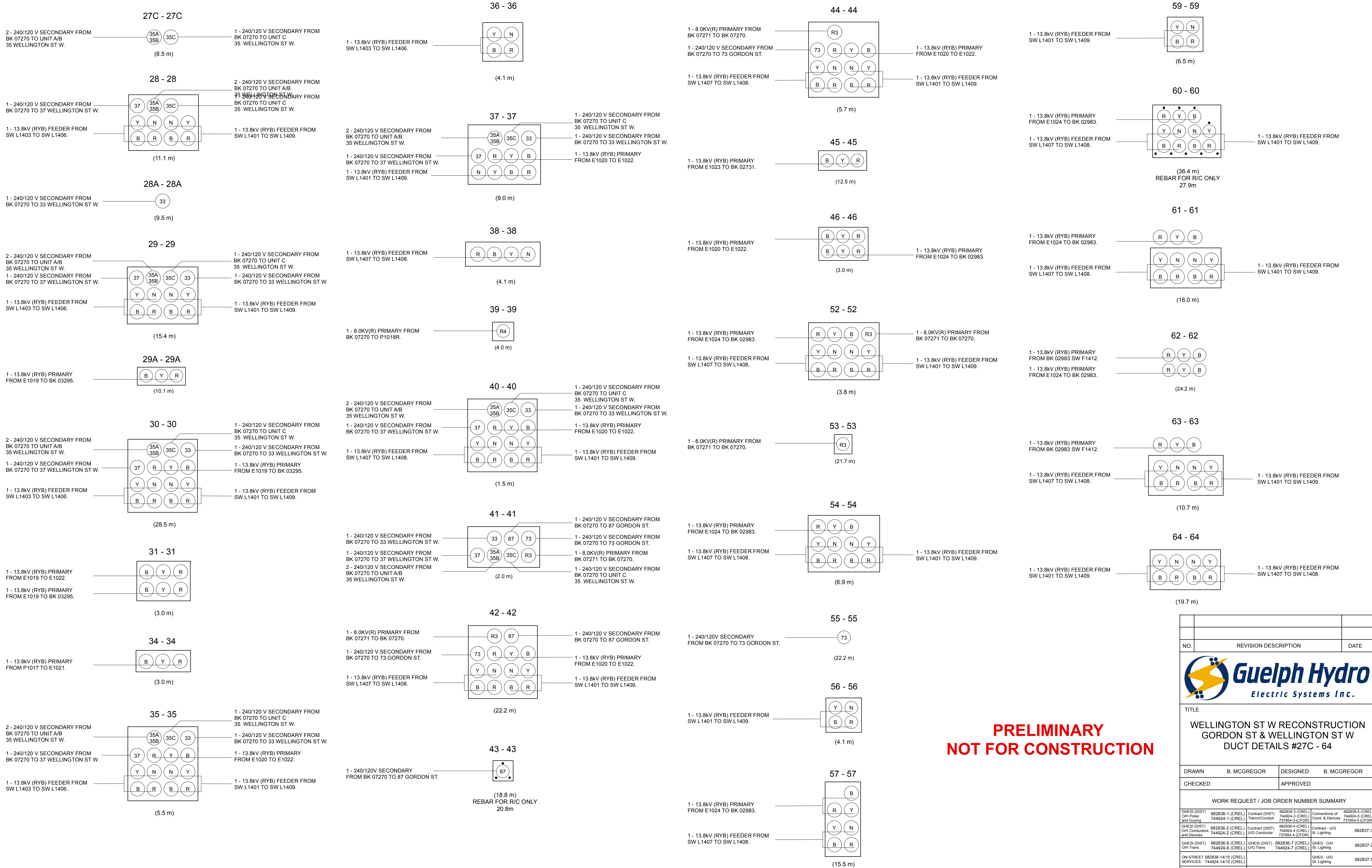
**ELECTRICAL WIRING DIAGRAM AND LOAD SUMMARY**

SCALE:	N.T.S.	CONSULTANT DRAWING No.	13780-E2
DATE DRAWN:	June 2013	CITY CONTRACT No.	
DRAWN BY:	J.J.	CHECKED BY:	J.B.
		CITY REFERENCE No.	
		REV.	1



**PRELIMINARY  
NOT FOR CONSTRUCTION**

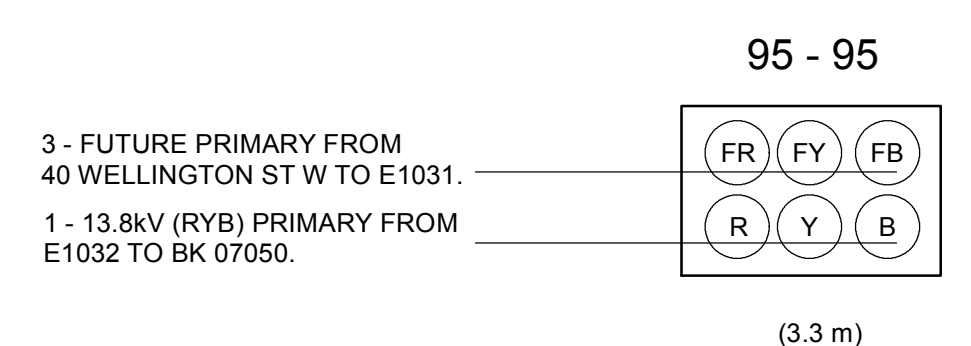
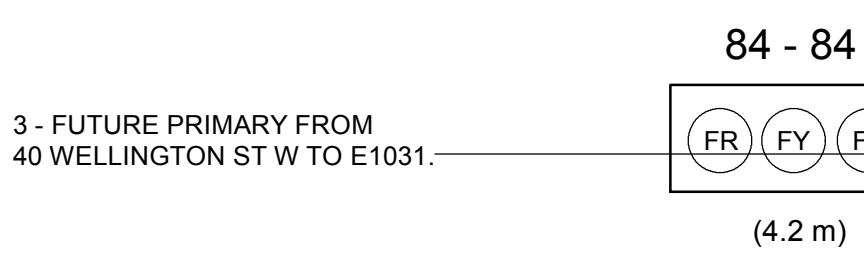
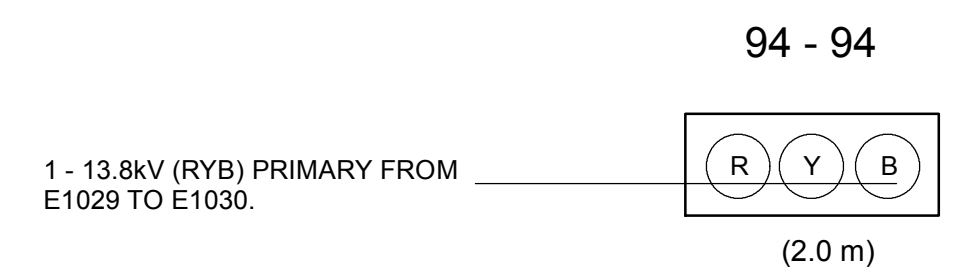
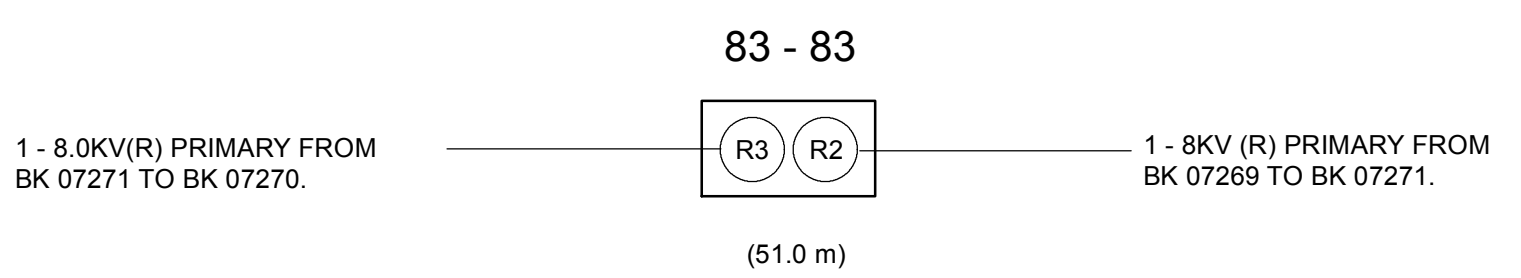
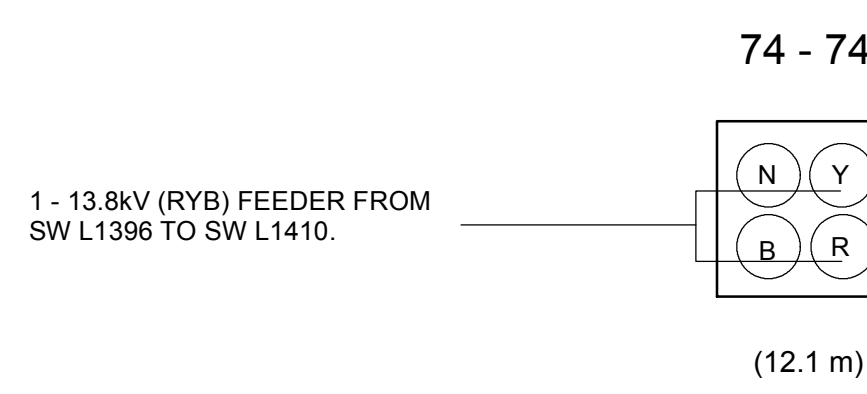
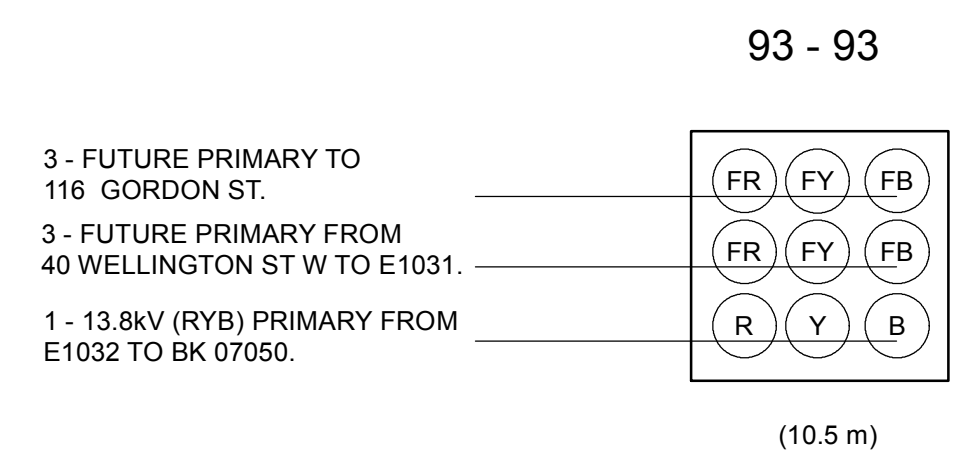
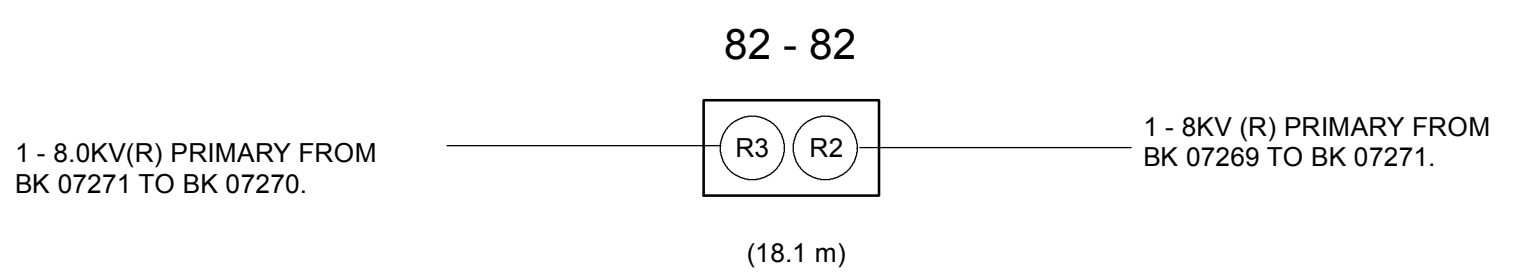
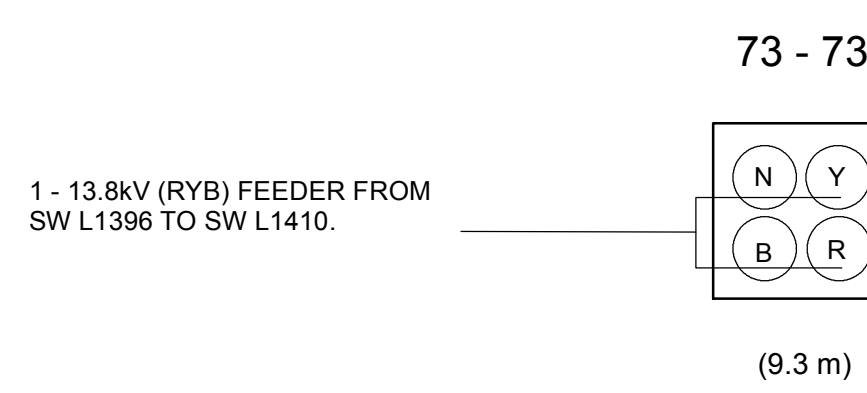
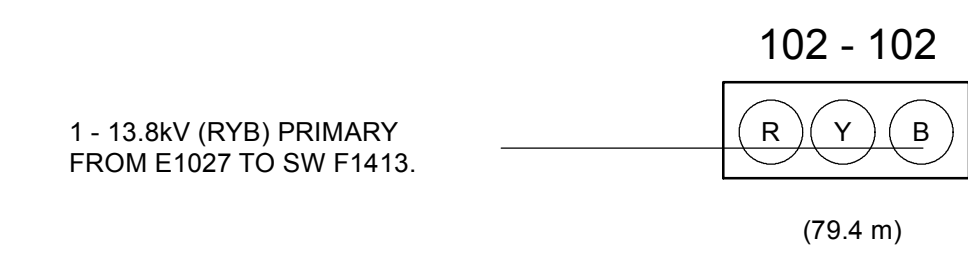
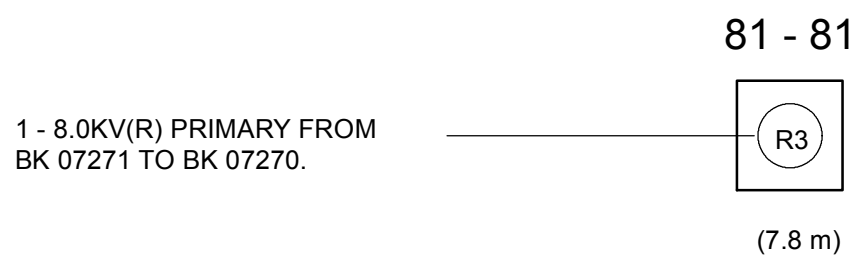
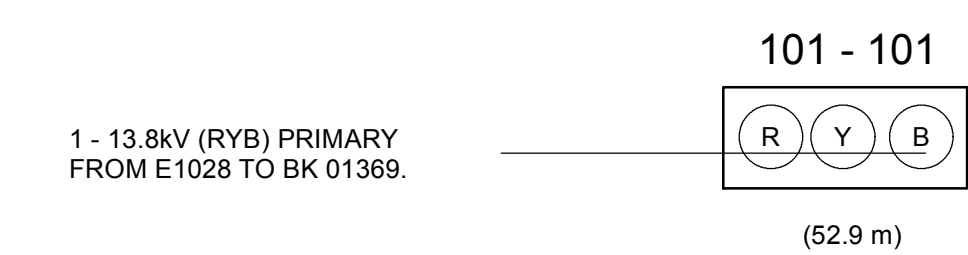
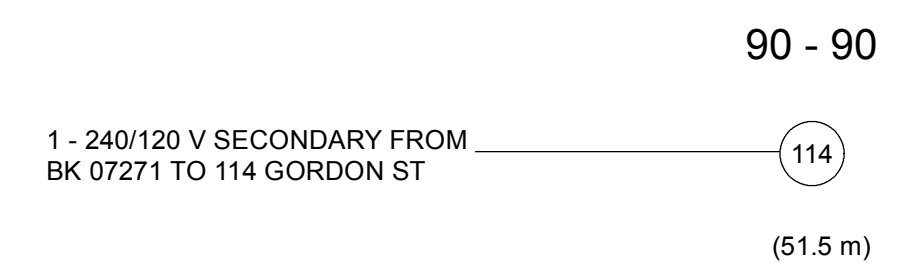
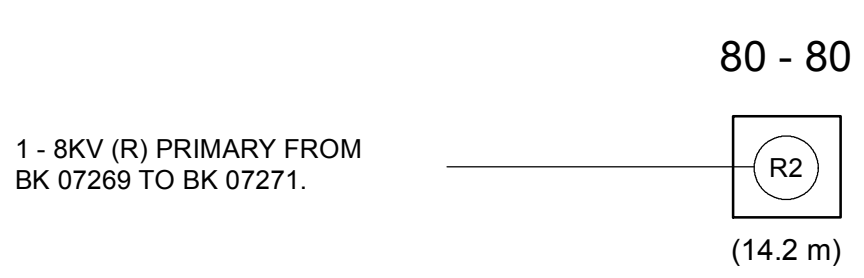
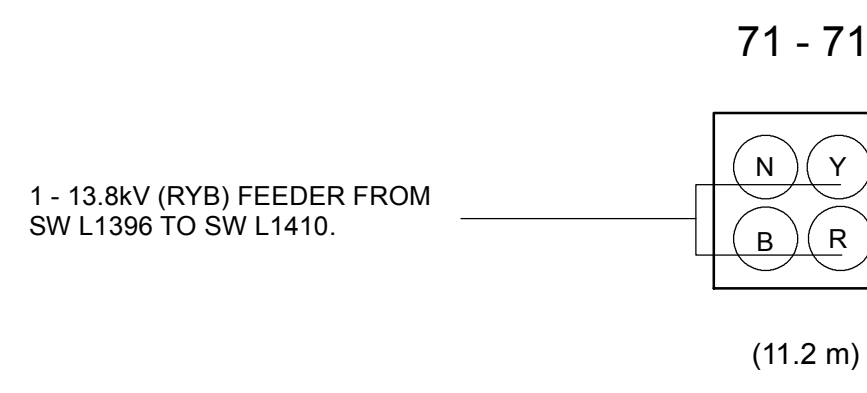
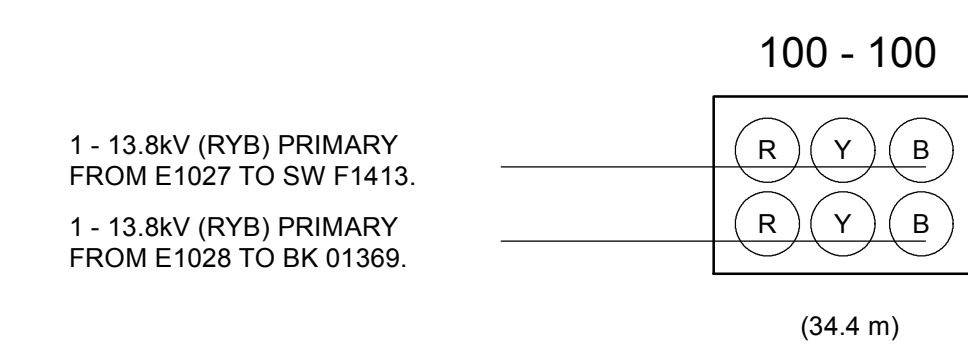
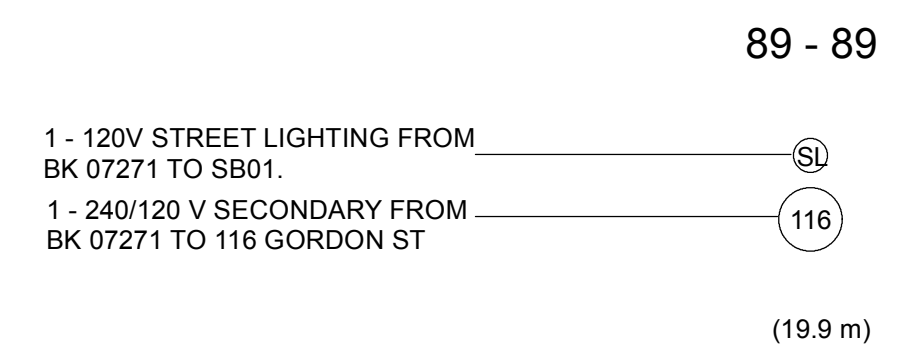
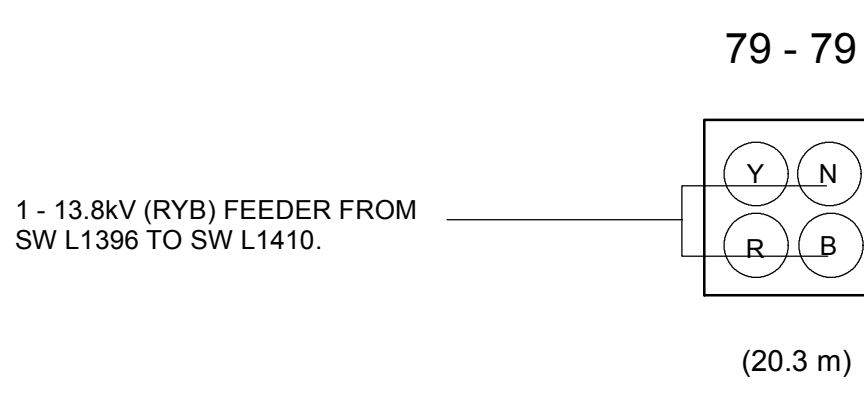
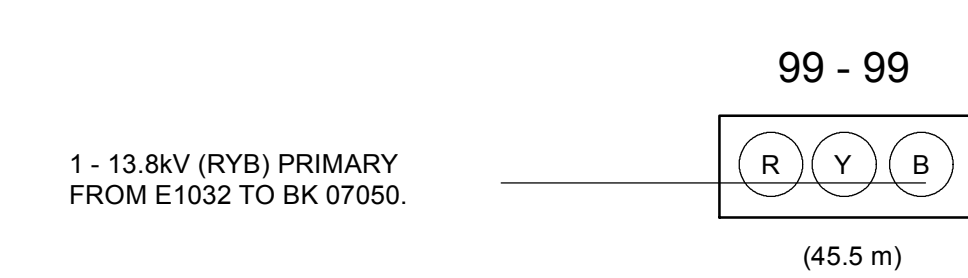
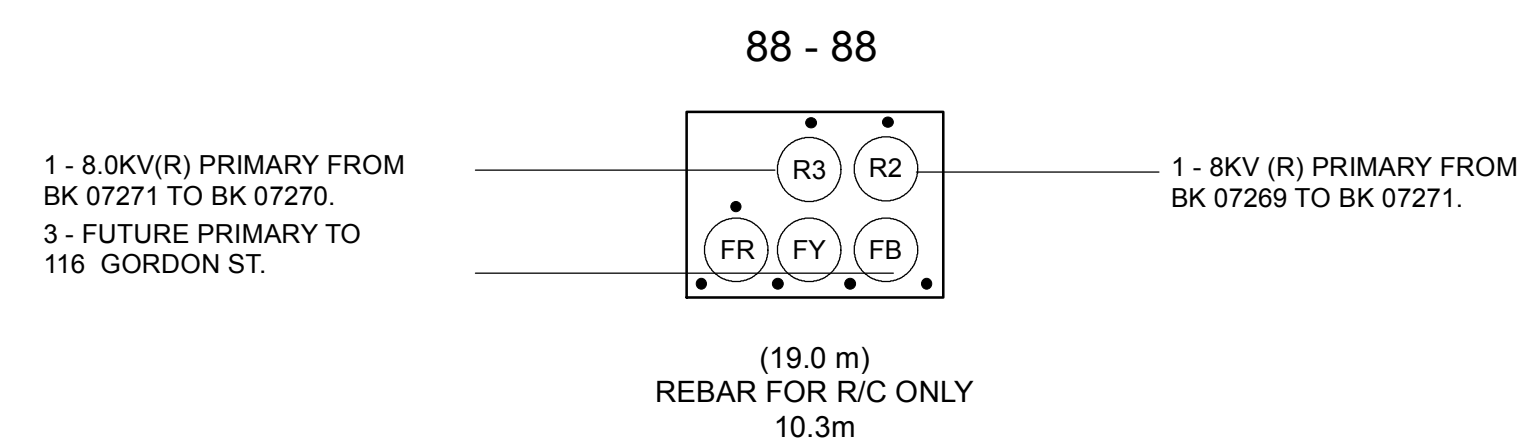
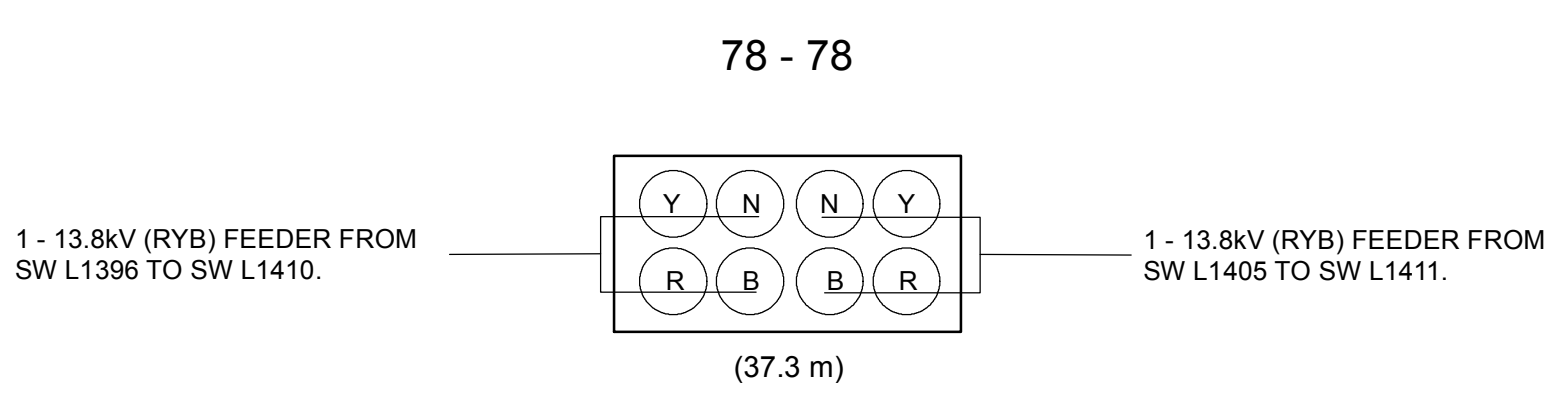
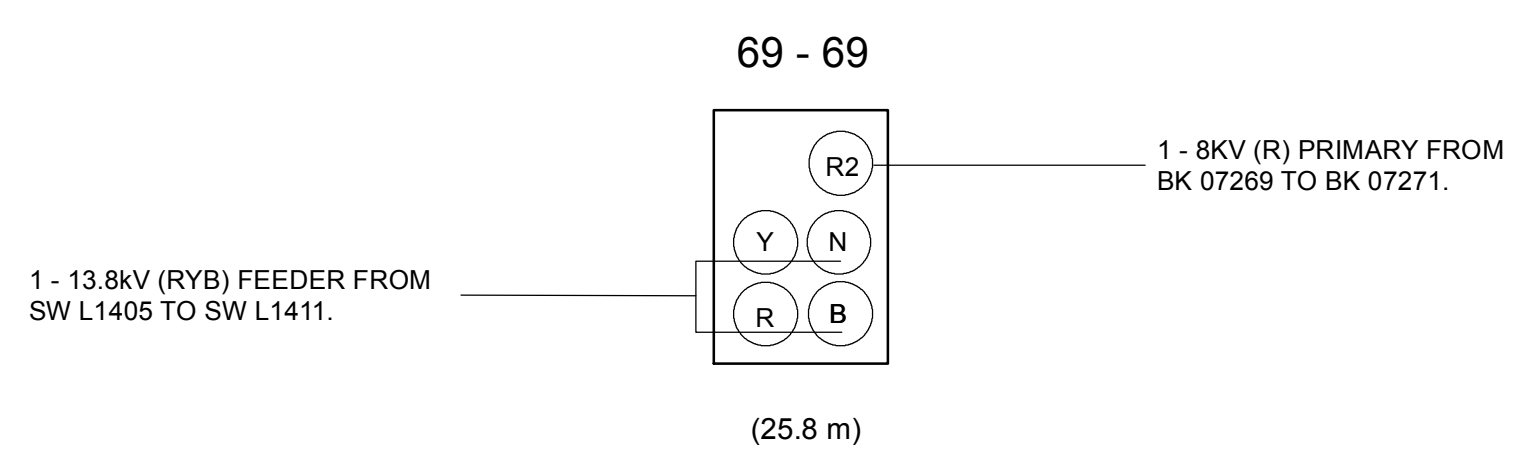
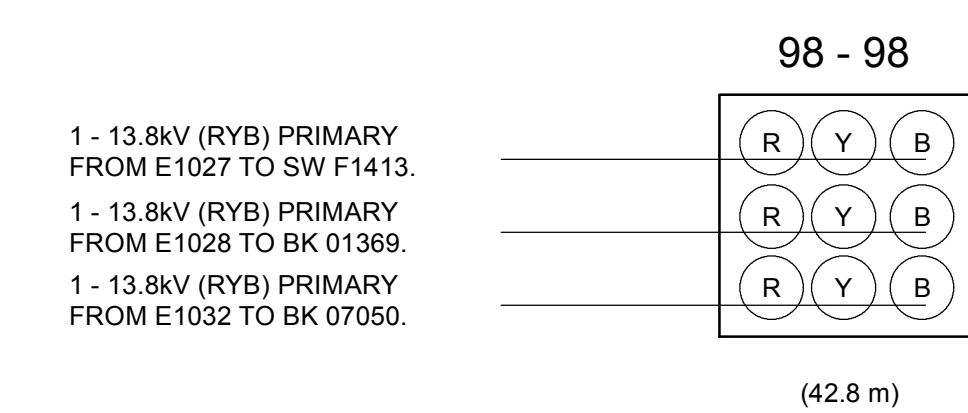
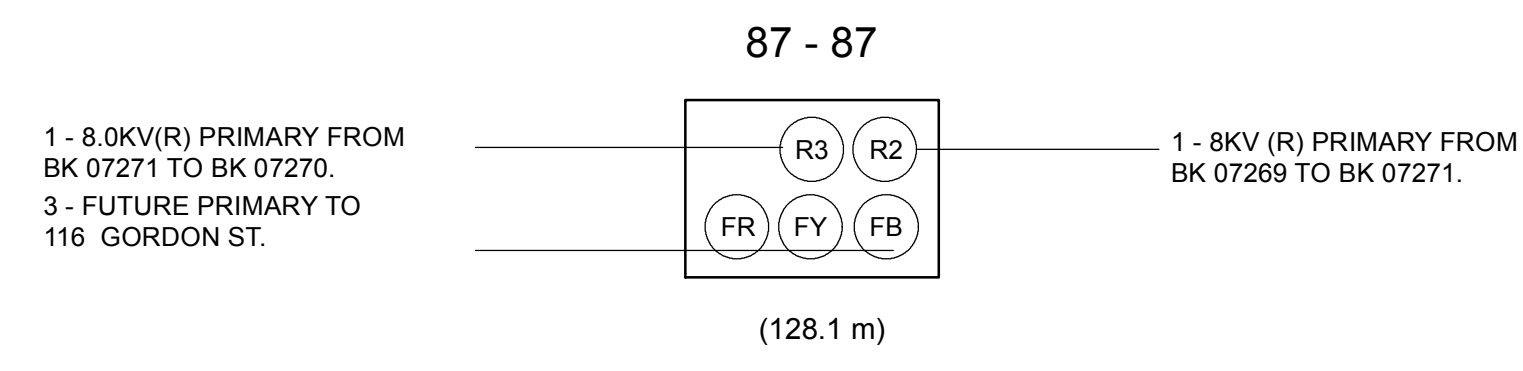
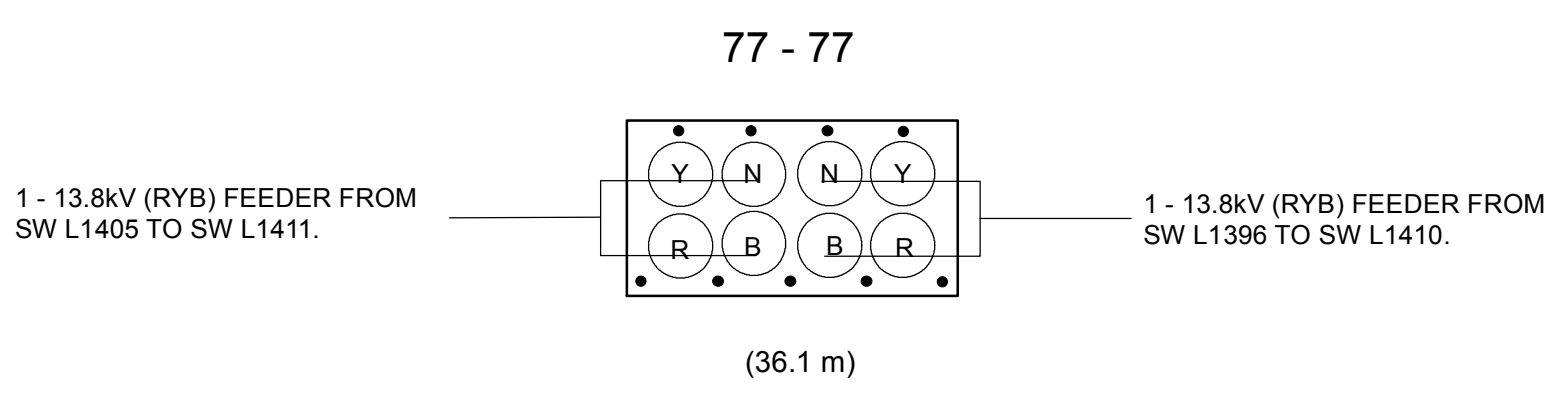
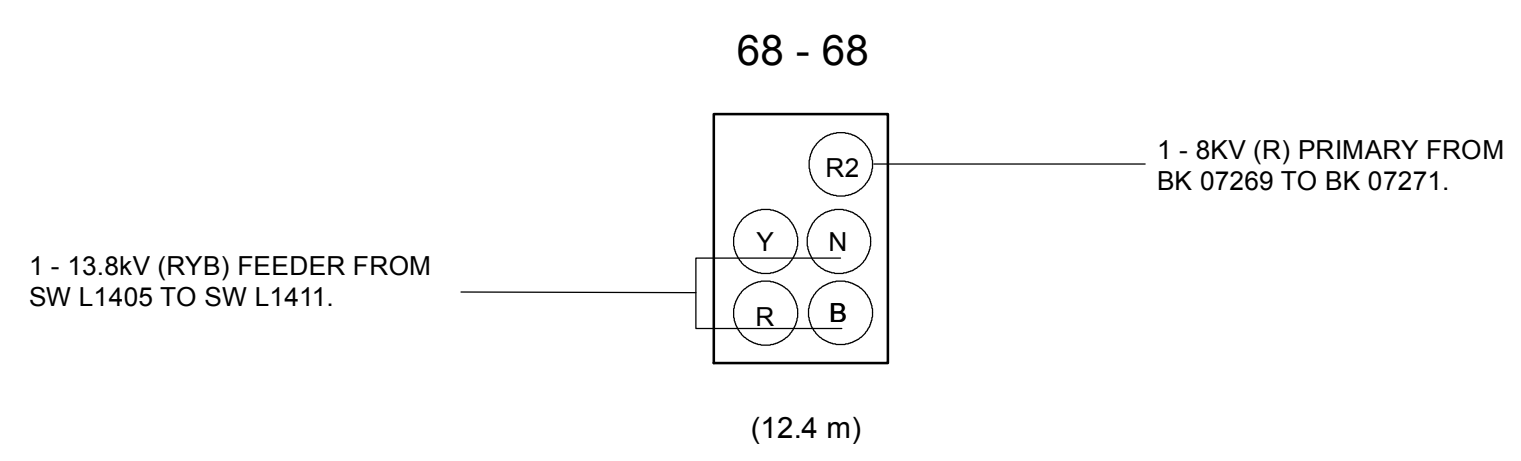
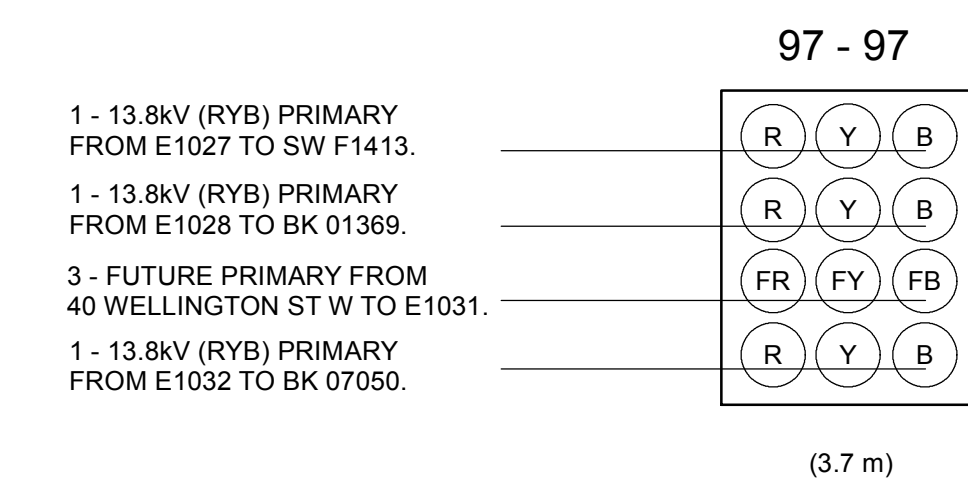
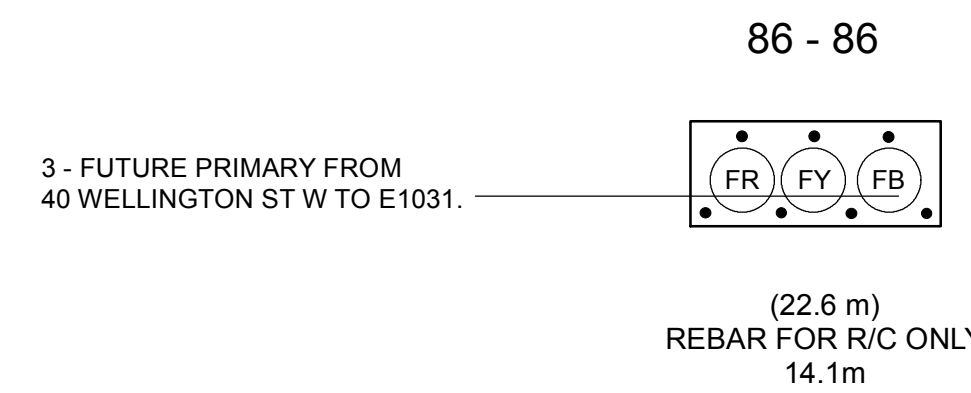
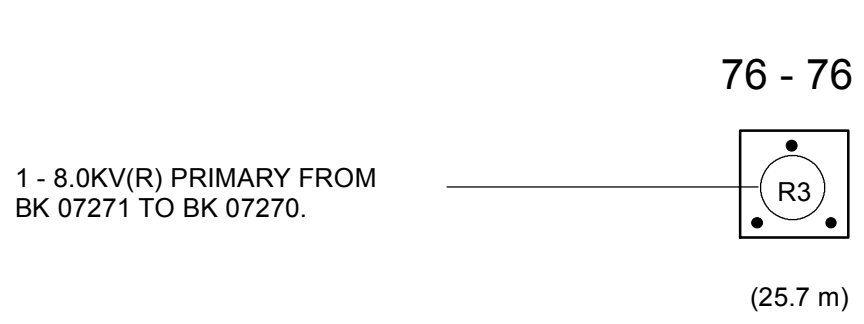
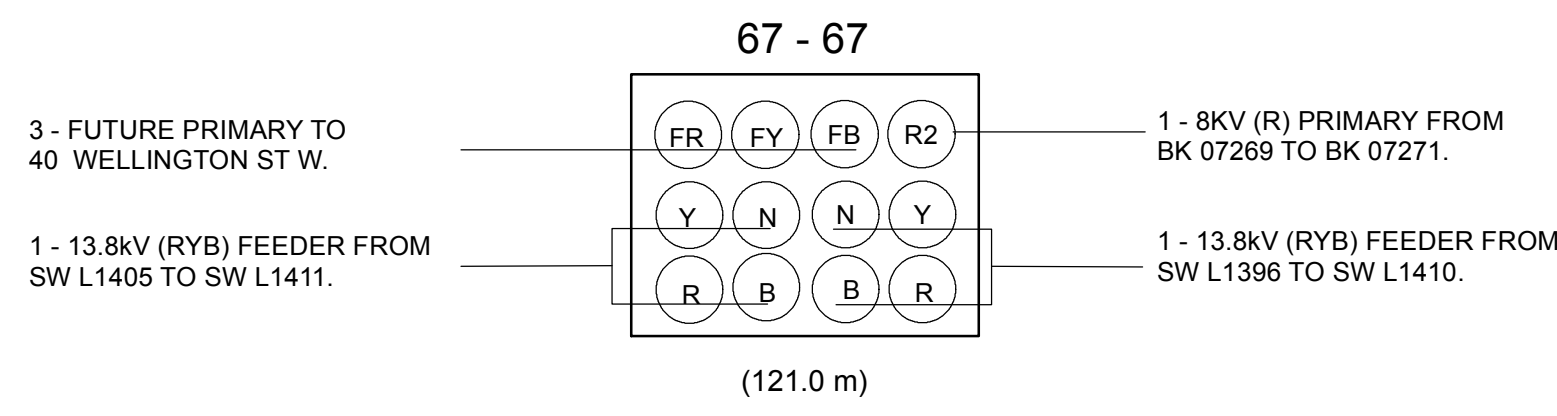
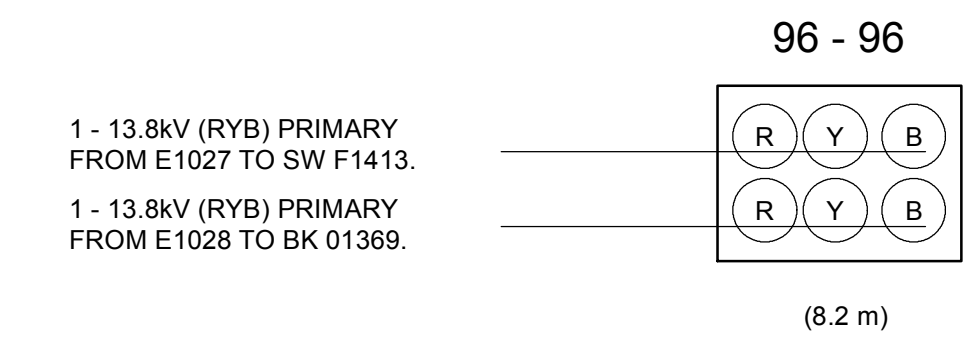
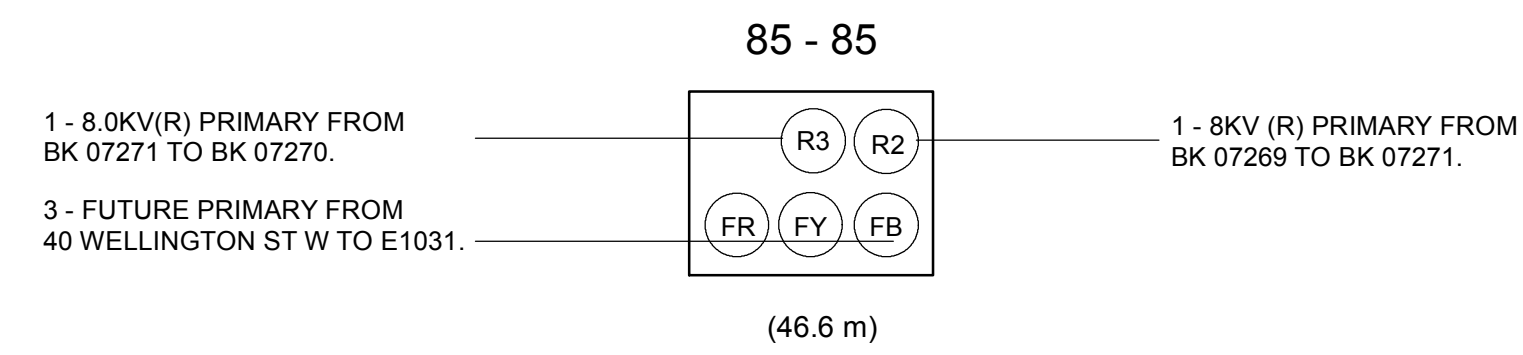
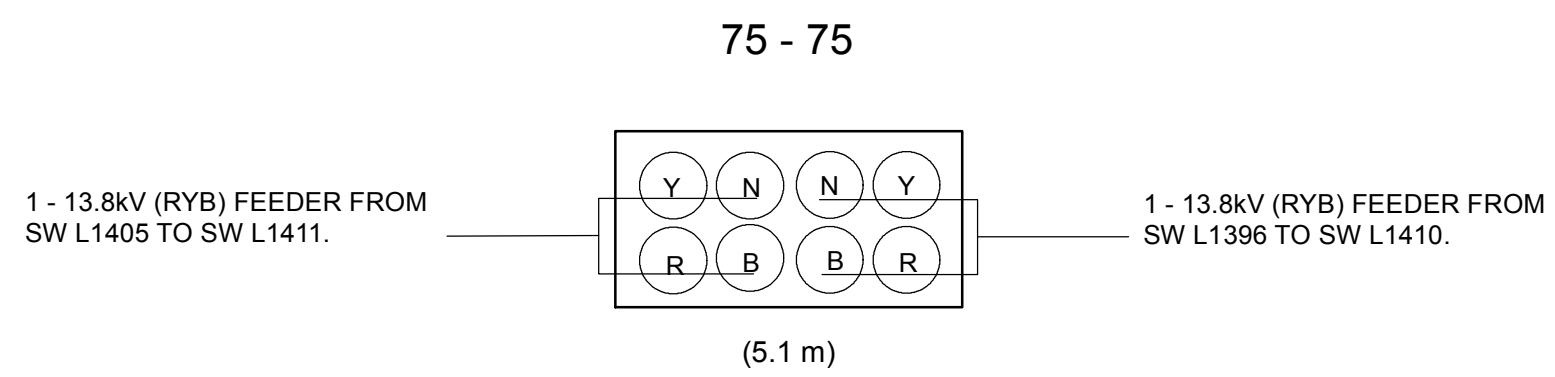
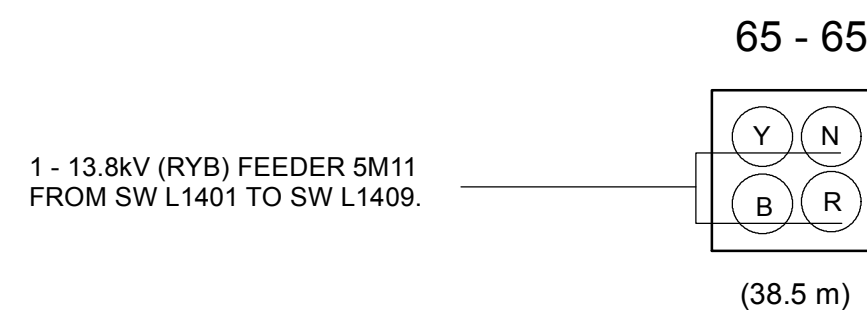
NO.	REVISION DESCRIPTION	DATE
<b>TITLE</b> WELLINGTON ST W RECONSTRUCTION GORDON ST & WELLINGTON ST W DUCT DETAILS # 1 - 27B		
DRAWN	B. MCGREGOR	DESIGNED B. MCGREGOR
CHECKED		APPROVED
<b>WORK REQUEST / JOB ORDER NUMBER SUMMARY</b>		
GHESI (DIST) OH Poles and Guying	682836-1 (CREL) 744924-1 (CREL)	Contract (DIST) 682836-3 (CREL) 737954-3 (CFDR)
GHESI (DIST) OH Conductors and Devices	682836-2 (CREL) 744924-2 (CREL)	Contract (DIST) 682836-4 (CREL) 737954-4 (CFDR)
GHESI (DIST) OH Trans	682836-6 (CREL) 744924-6 (CREL)	Contract (DIST) 682836-7 (CREL) 737954-7 (CFDR)
ON-STREET SERVICES	682836-14115 (CREL) 744924-14115 (CREL)	Connections of Cond. & Devices 682836-5 (CREL) 737954-5 (CFDR)
Contract - U/G	682837-3	Contract - U/G
Contract - U/G	682837-2	Contract - U/G
Contract - U/G	682837-5	Contract - U/G
SCALE	N.T.S.	DWG. NO. 2012014-RC21-E
DATE	2013/03/06	



**PRELIMINARY  
NOT FOR CONSTRUCTION**

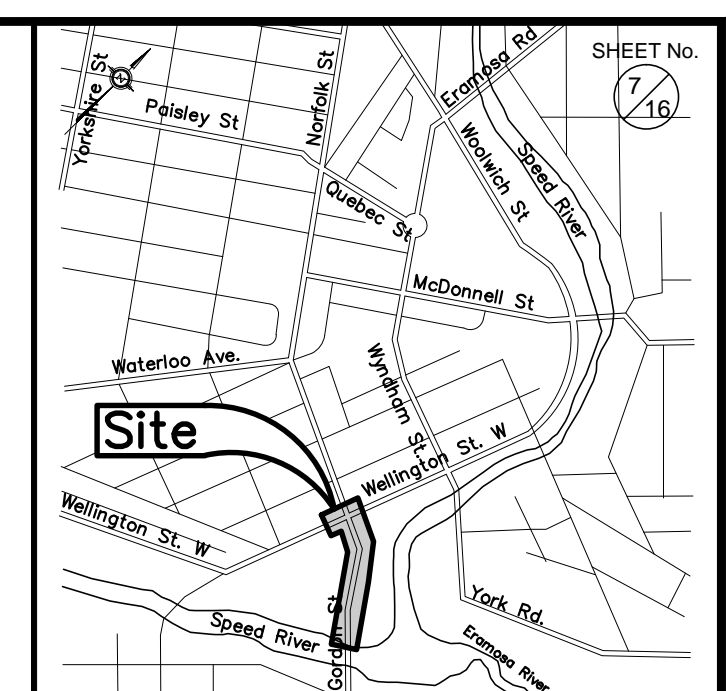
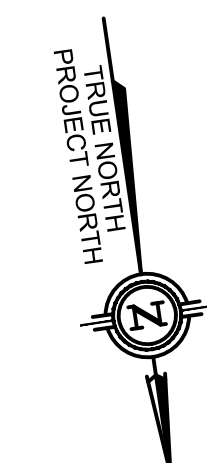
NO.	REVISION DESCRIPTION	DATE
TITLE		
<b>WELLINGTON ST W RECONSTRUCTION GORDON ST &amp; WELLINGTON ST W DUCT DETAILS #27C - 64</b>		
DRAWN	B. MCGREGOR	DESIGNED B. MCGREGOR
CHECKED		APPROVED
WORK REQUEST / JOB ORDER NUMBER SUMMARY		
GHESI (DIST) 682836-1 (CREL) OH Pole and Guying	Contract (DIST) 744924-3 (CREL) Trench/Conduit	Connections of 682836-5 (CREL) 744924-5 (CREL) and Devices 737954-3 (CFDR)
GHESI (DIST) 682836-2 (CREL) OH Conductors and Devices	Contract (DIST) 744924-2 (CREL) U/G Conductor	Contract - U/G St. Lighting 682837-3
GHESI (DIST) 682836-6 (CREL) OH Trans	GHESI (DIST) 682836-7 (CREL) U/G Trans	GHESI - OH St. Lighting 682837-2
ON-STREET SERVICES	682836-14/15 (CREL) 744924-14/15 (CREL)	GHESI - U/G St. Lighting 682837-5
SCALE	N.T.S.	DWG. NO. 2012014-RC15-F
DATE	2013/03/06	





**PRELIMINARY  
NOT FOR CONSTRUCTION**

NO.	REVISION DESCRIPTION	DATE
TITLE		
<b>WELLINGTON ST W RECONSTRUCTION GORDON ST &amp; WELLINGTON ST W DUCT DETAILS 65-102</b>		
DRAWN	B. MCGREGOR	DESIGNED B. MCGREGOR
CHECKED		APPROVED
WORK REQUEST / JOB ORDER NUMBER SUMMARY		
GHESI (DIST) OH Pole and Gearing	652836-1 (CREL) 744924-1 (CREL)	Contract (DIST) Trench/Conduit 652836-3 (CREL) 744924-3 (CREL) 737954-3 (CFDR)
GHESI (DIST) OH Conductors and Devices	652836-2 (CREL) 744924-2 (CREL)	Contract (DIST) U/G Conductor 652836-4 (CREL) 744924-4 (CREL) 737954-4 (CFDR)
GHESI (DIST) OH Trans	652836-6 (CREL) 744924-6 (CREL)	Contract - U/G St. Lighting 652837-3 (CREL) 744924-7 (CREL)
ON-STREET SERVICES	652836-14/15 (CREL) 744924-14/15 (CREL)	GHESI - OH St. Lighting 652837-2 (CREL) GHESI - U/G St. Lighting 652837-5 (CREL)
SCALE	N.T.S.	DWG. NO. 2012014-RC21-G
DATE	2013/03/06	



KEY PLAN Scale: NOT TO SCALE

- LEGEND**
- PROP. 1.5m SIDEWALK
  - PROP. DROP CURB
  - PROP. ASPHALT DRIVEWAY
  - PROPOSED HYDRO WORKS
  - PROPOSED 50mm RIGID TRAFFIC DUCTS

THE POSITION OF POLES, LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS. AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

No.	DATE	DESCRIPTION	BY:	CHKD.

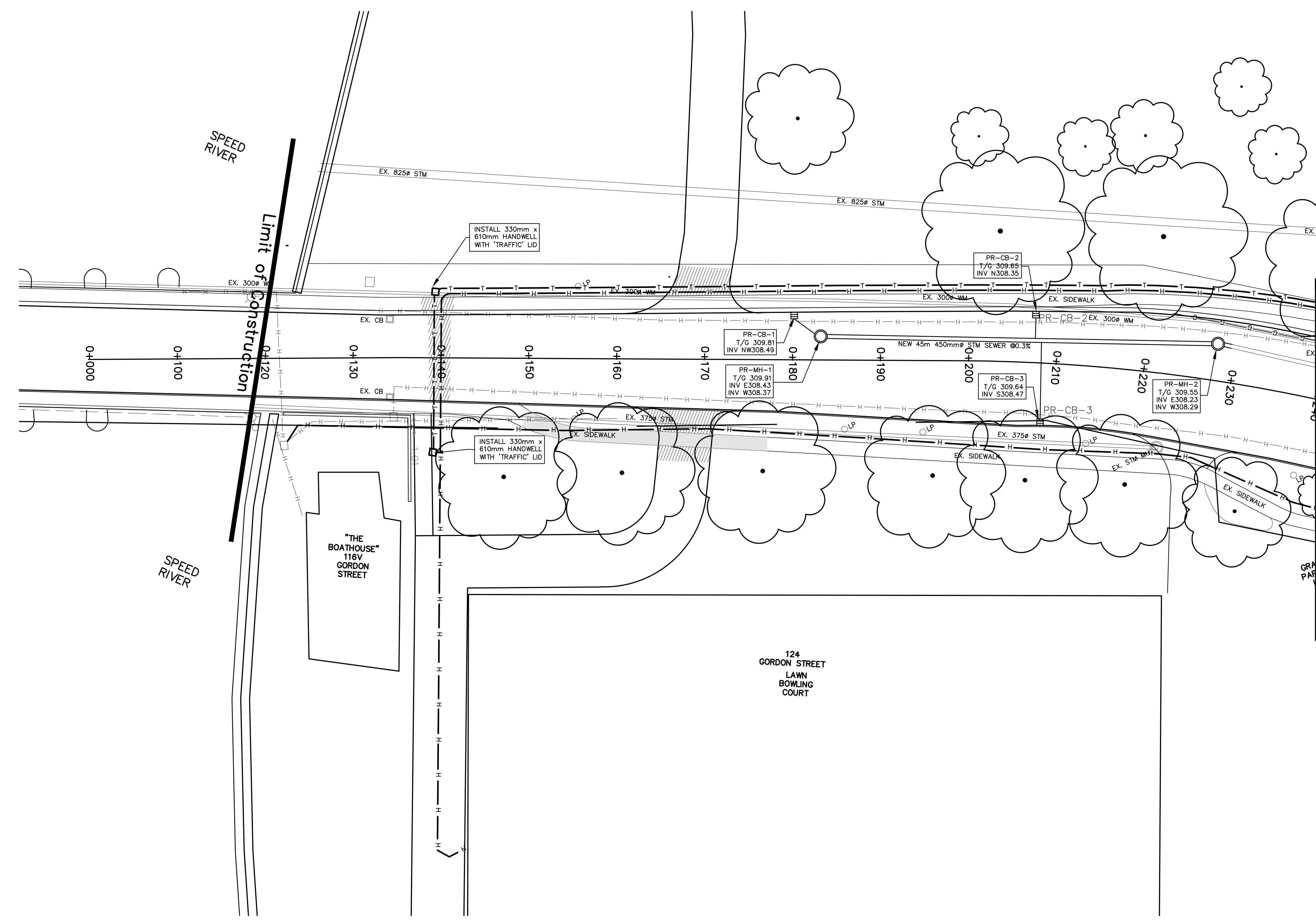
ISSUES/REVISIONS



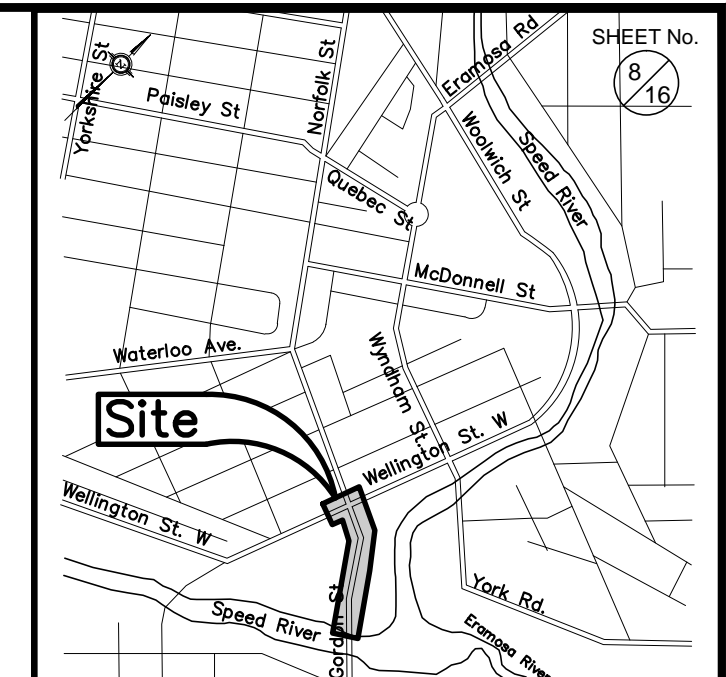
GORDON STREET / WELLINGTON STREET EAST RECONSTRUCTION  
Wellington St. to Gordon St. Bridge

RECONSTRUCTION  
Sta 0+000 to Sta 0+240

SCALE: 1:250	CONSULTANT DRAWING No.
DATE DRAWN: AUGUST 2013	CITY CONTRACT No. 2-1313
DRAWN BY: WOB	CHECKED BY: IU
CITY REFERENCE No. D-07	REV. 0



MATCH LINE STA 0+240  
GORDON STREET



KEY PLAN Scale: NOT TO SCALE

- LEGEND**
- PROP. 1.5m SIDEWALK
  - PROP. DROPCURB
  - PROP. ASPHALT DRIVEWAY
  - PROPOSED HYDRO WORKS
  - PROPOSED 50mm RIGID TRAFFIC DUCTS

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No.	DATE	DESCRIPTION	BY:	CHKD.

ISSUES/REVISIONS

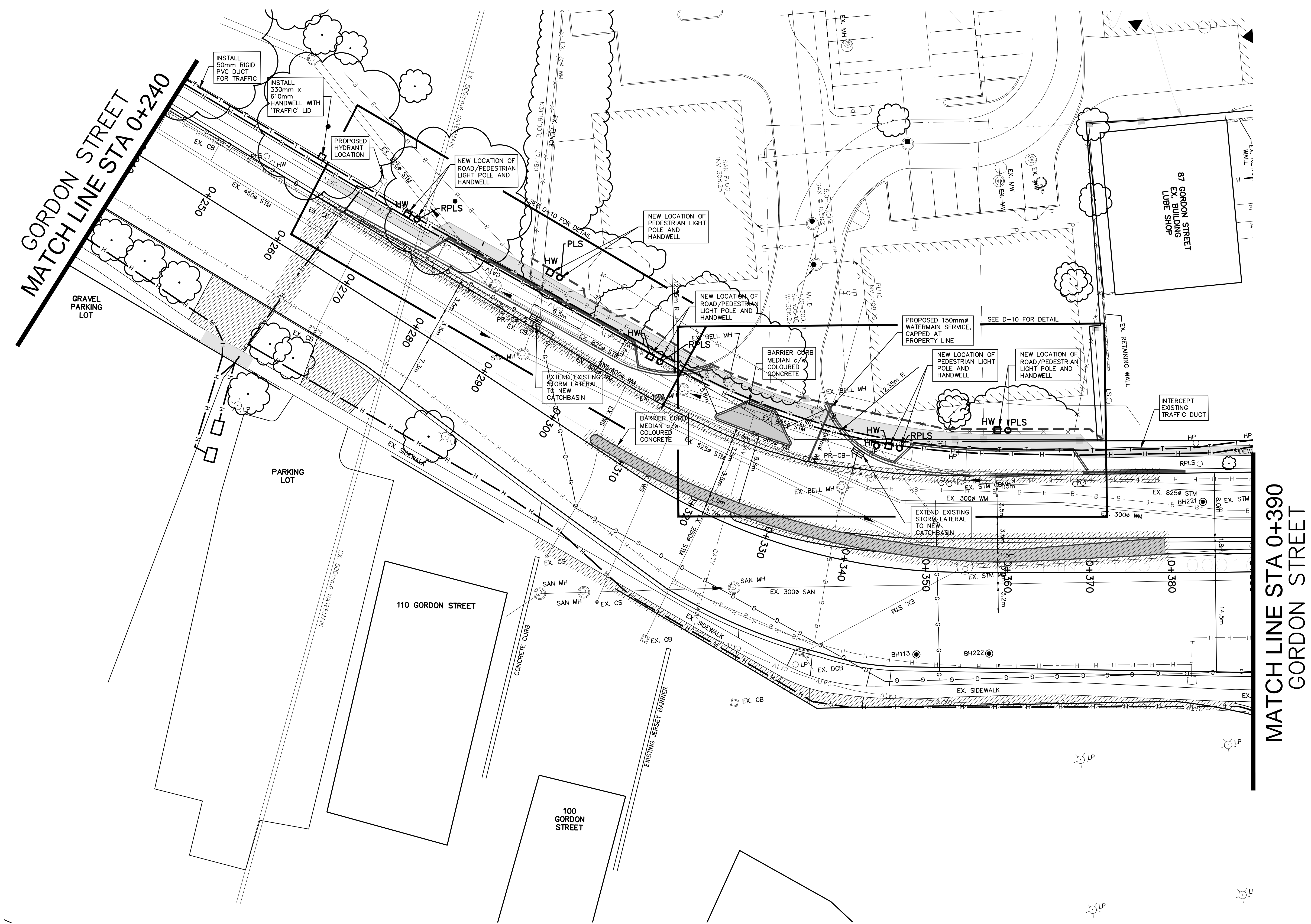


ENGINEERING SERVICES

GORDON STREET / WELLINGTON STREET EAST RECONSTRUCTION  
Wellington St. to Gordon St. Bridge

RECONSTRUCTION  
Sta 0+240 to Sta 0+390

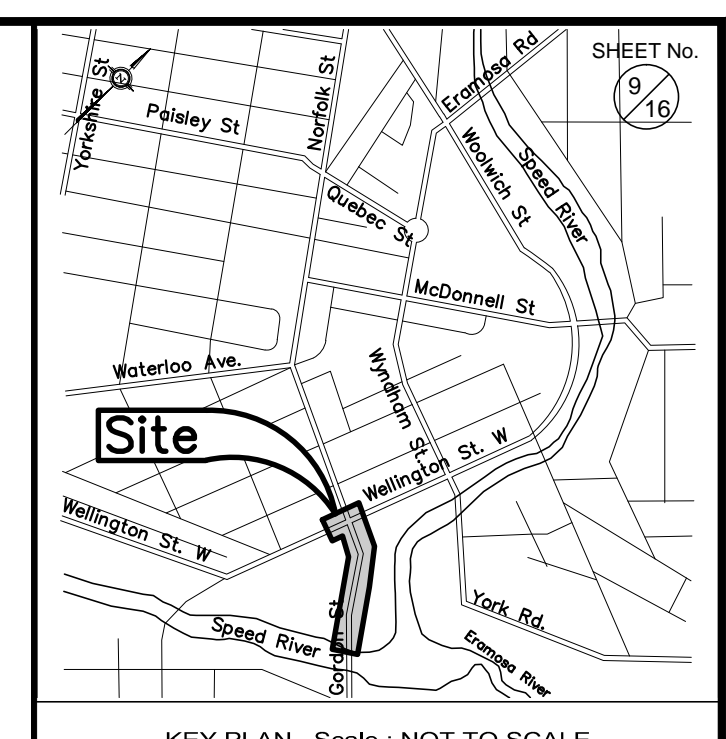
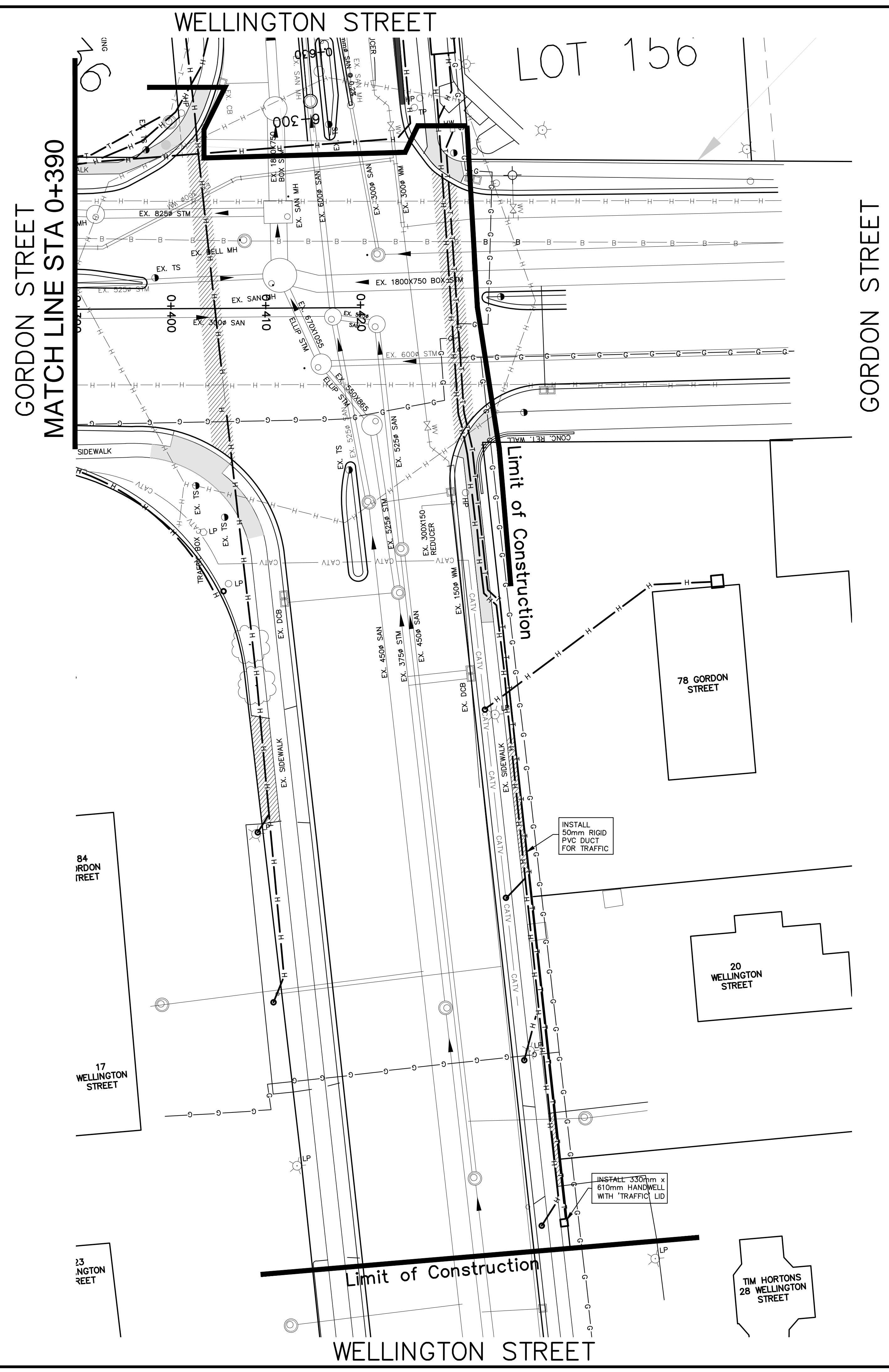
SCALE: 1:250	CONSULTANT DRAWING No.
DATE DRAWN: August 2013	CITY CONTRACT No. 2-1313
DRAWN BY: WOB	CHECKED BY: IU
CITY REFERENCE No. D-08	REV. 0



GORDON STREET  
MATCH LINE STA 0+240

MATCH LINE STA 0+390  
GORDON STREET





KEY PLAN Scale: NOT TO SCALE

- LEGEND**
- PROP. 1.5m SIDEWALK
  - PROP. DROPCURB
  - PROP. ASPHALT DRIVEWAY
  - PROPOSED HYDRO WORKS
  - PROPOSED 50mm RIGID TRAFFIC DUCTS

THE POSITION OF POLES, LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

No.	DATE	DESCRIPTION	BY:	CHKD.

ISSUES/REVISIONS

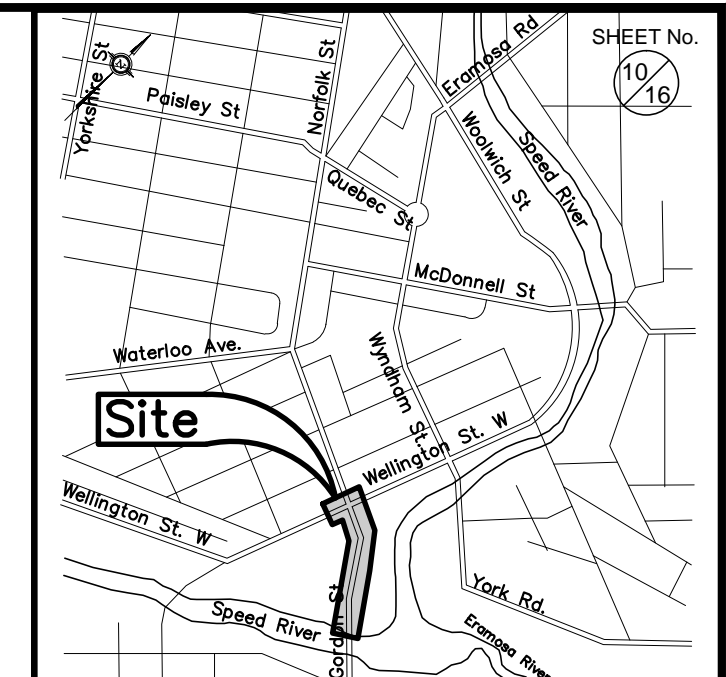


ENGINEERING SERVICES

GORDON STREET / WELLINGTON STREET EAST RECONSTRUCTION  
Wellington St. to Speed River

RECONSTRUCTION  
Sta 0+390 to Sta 0+420

SCALE: 1:250	CONSULTANT DRAWING No.
DATE DRAWN: August 2013	CITY CONTRACT No. 2-1313
DRAWN BY: WOB	CHECKED BY: IU
CITY REFERENCE No. D-09	REV. 0



KEY PLAN Scale: NOT TO SCALE

- LEGEND**
- PROP. 1.5m SIDEWALK
  - PROP. DROP CURB
  - PROP. ASPHALT DRIVEWAY
  - PROPOSED HYDRO WORKS
  - PROPOSED 50mm RIGID TRAFFIC DUCTS

THE POSITION OF POLES, LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

No.	DATE	DESCRIPTION	BY:	CHKD.

ISSUES/REVISIONS

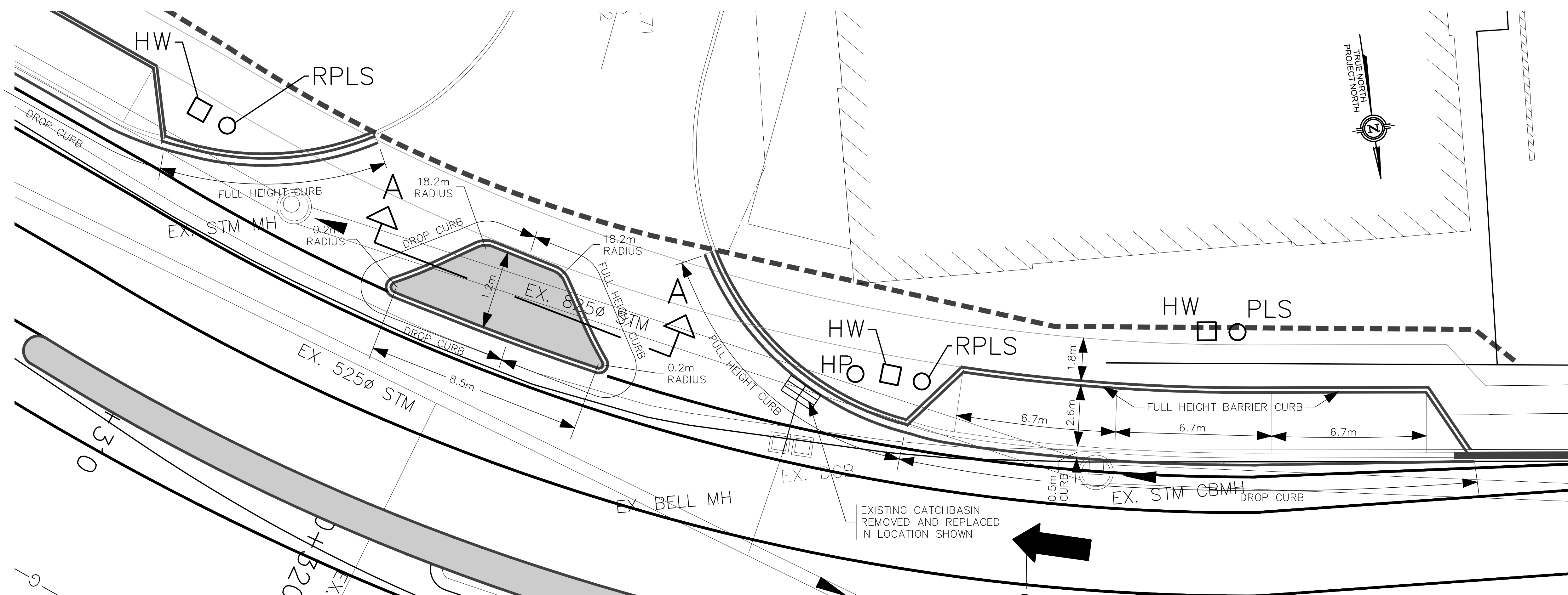


ENGINEERING SERVICES

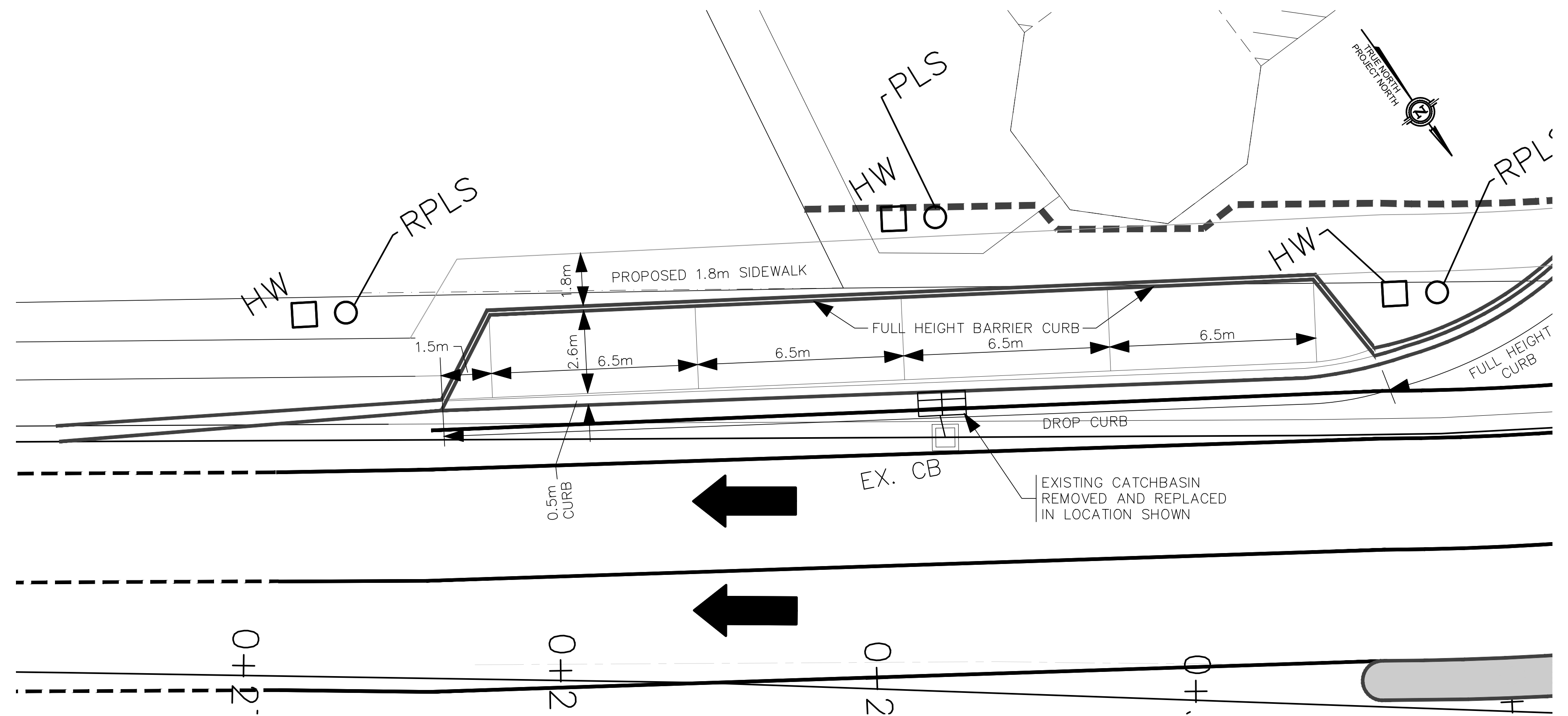
GORDON STREET / WELLINGTON STREET EAST RECONSTRUCTION  
Wellington St. to Gordon St. Bridge

PARALLEL PARKING DETAILS

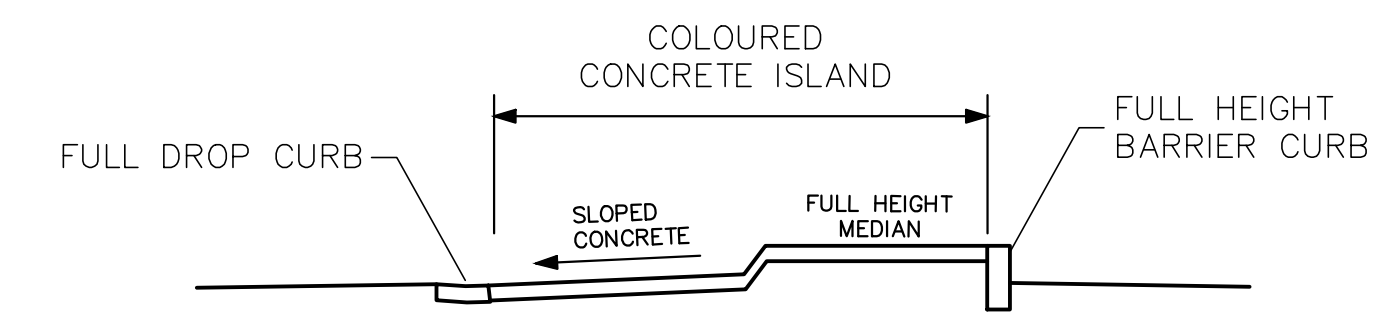
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DATE DRAWN:	August 2013	CITY CONTRACT No.	2-1313
DRAWN BY:	WOB	CITY REFERENCE No.	D-10
CHECKED BY:	IU	REV.	0



Gordon Street Entrance Island and Parallel Parking Spots  
Scale 1:100

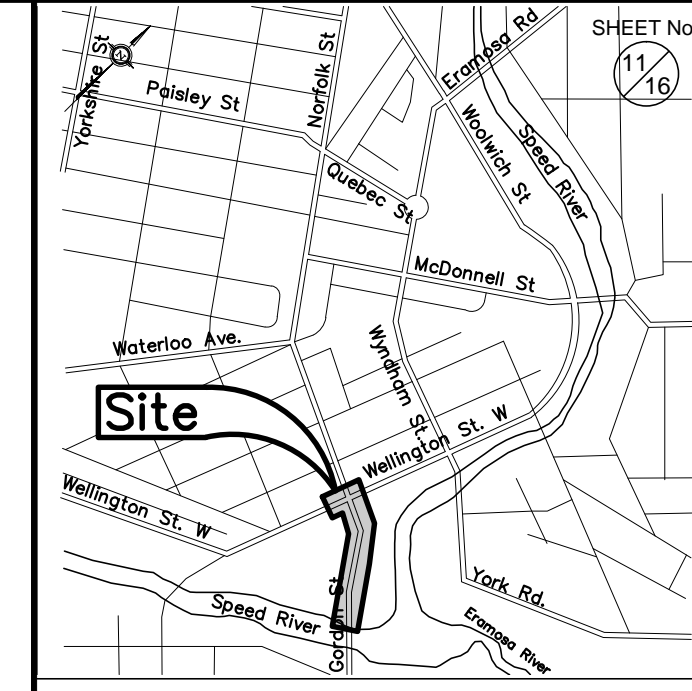


Parallel Parking Spots Detail  
Scale 1:100



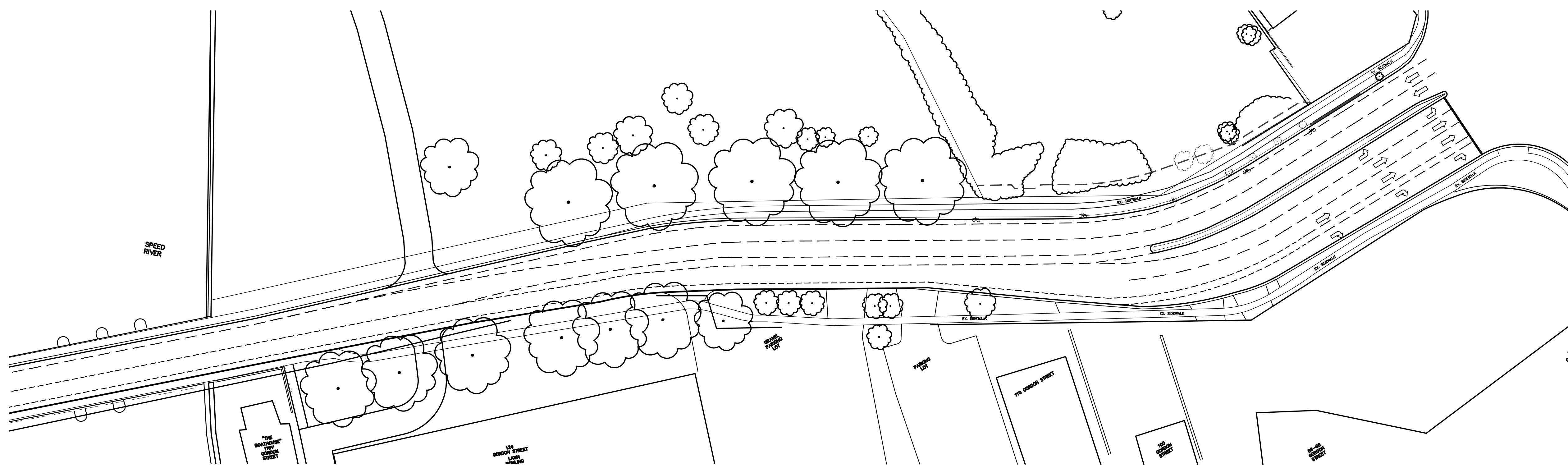
Section A-A  
Scale 1:100

TRUE NORTH  
PROJECT NORTH

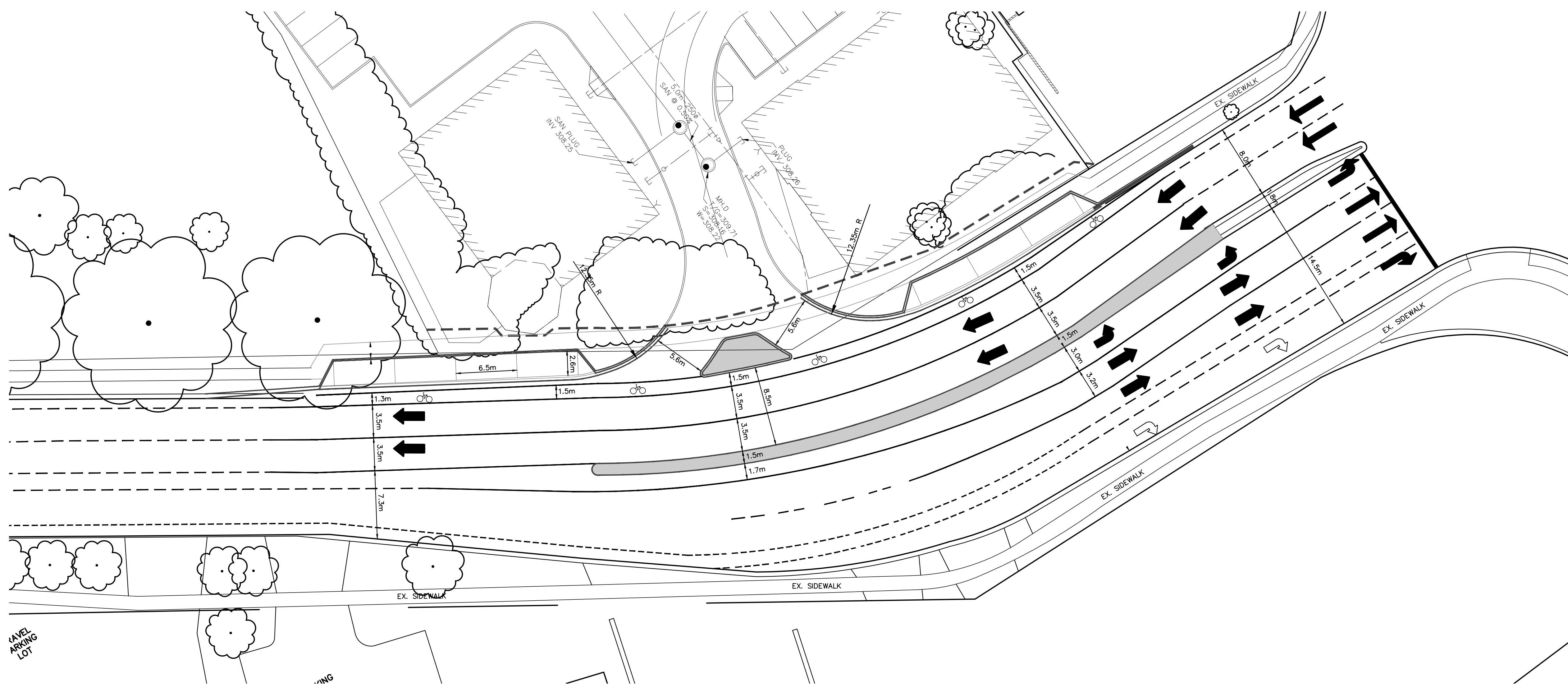


KEY PLAN Scale: NOT TO SCALE

SHEET No.  
11/16



EXISTING PAVEMENT MARKINGS  
SCALE 1:500



NEW PAVEMENT MARKINGS  
SCALE 1:250

THE POSITION OF POLES, LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

No.	DATE	DESCRIPTION	BY:	CHKD.

ISSUES/REVISIONS

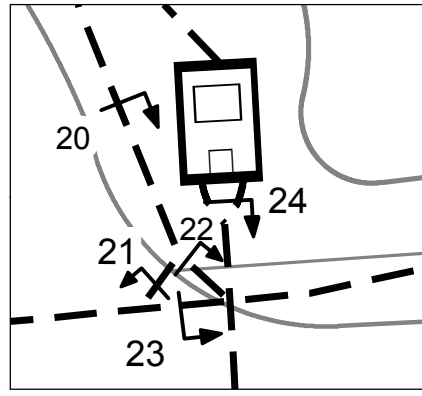


ENGINEERING SERVICES  
GORDON STREET / WELLINGTON STREET EAST RECONSTRUCTION  
Wellington St. to Gordon St. Bridge

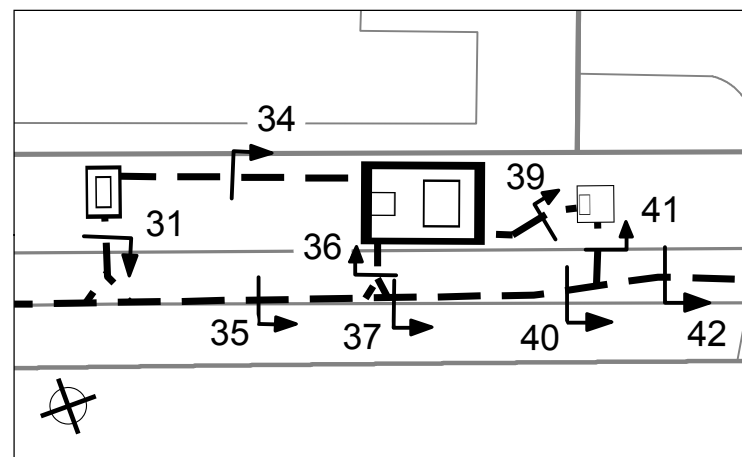
PAVEMENT MARKING PLAN

SCALE: 1:250	CONSULTANT DRAWING No.
DATE DRAWN: August 2013	CITY CONTRACT No. 2-1313
DRAWN BY: WOB	CHECKED BY: IU
CITY REFERENCE No. D-11	REV. 0

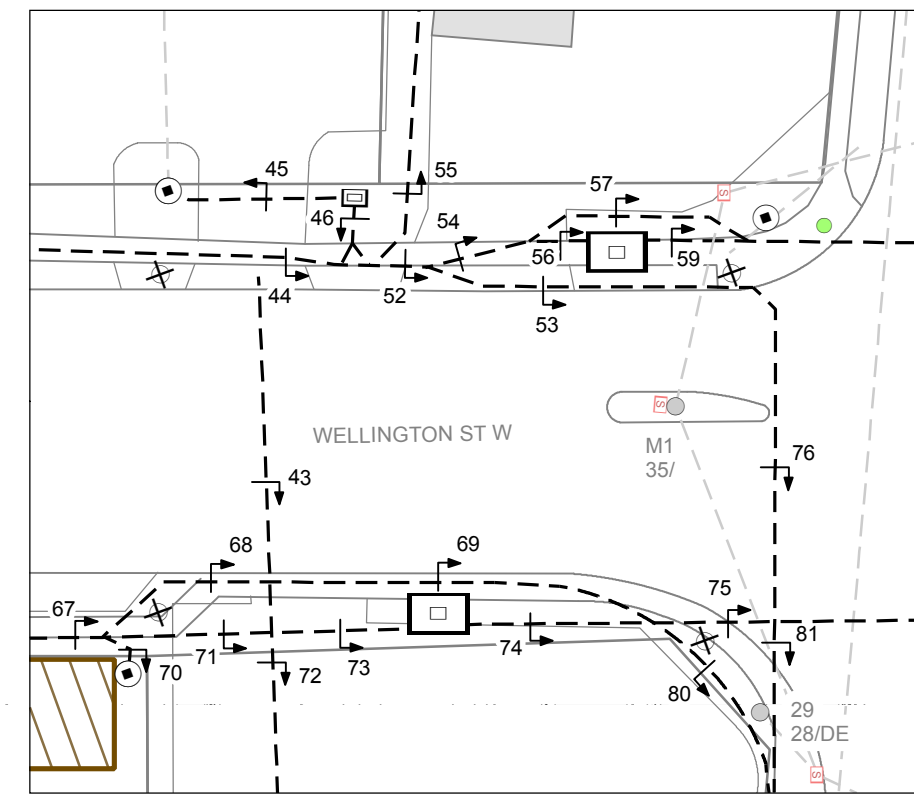
**DETAIL A**  
1:250



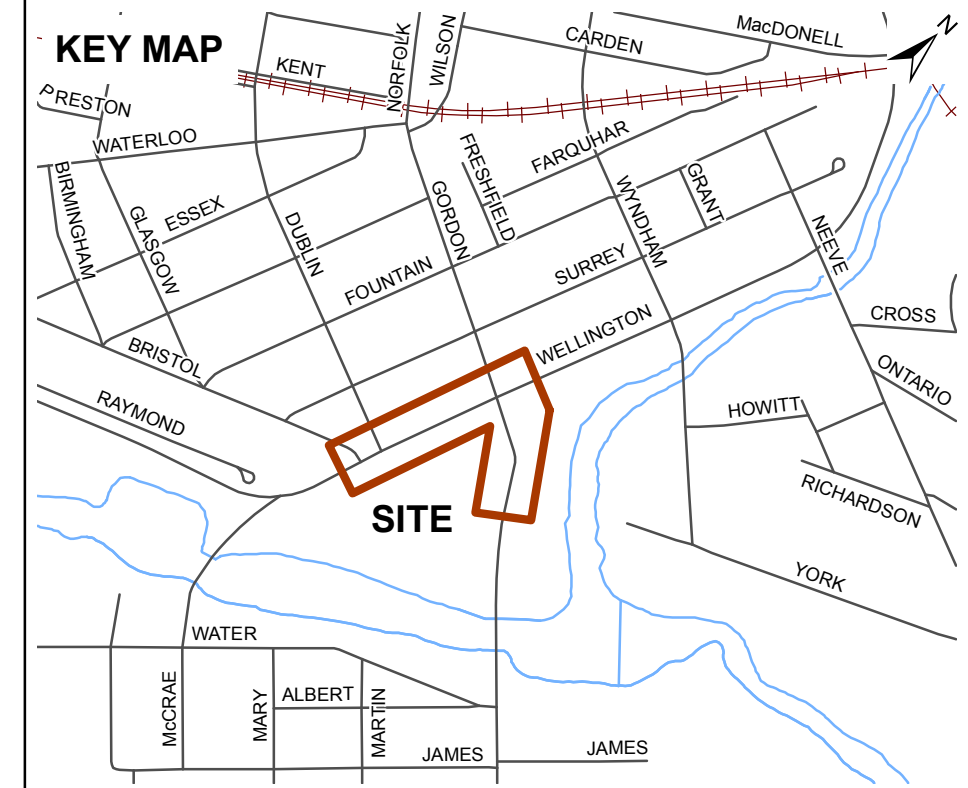
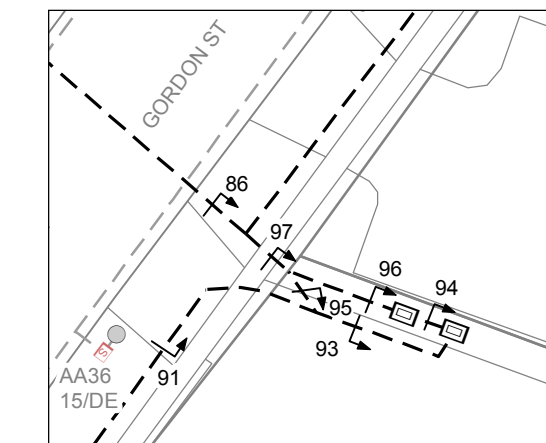
**DETAIL B**  
1:250



**DETAIL C**  
1:500

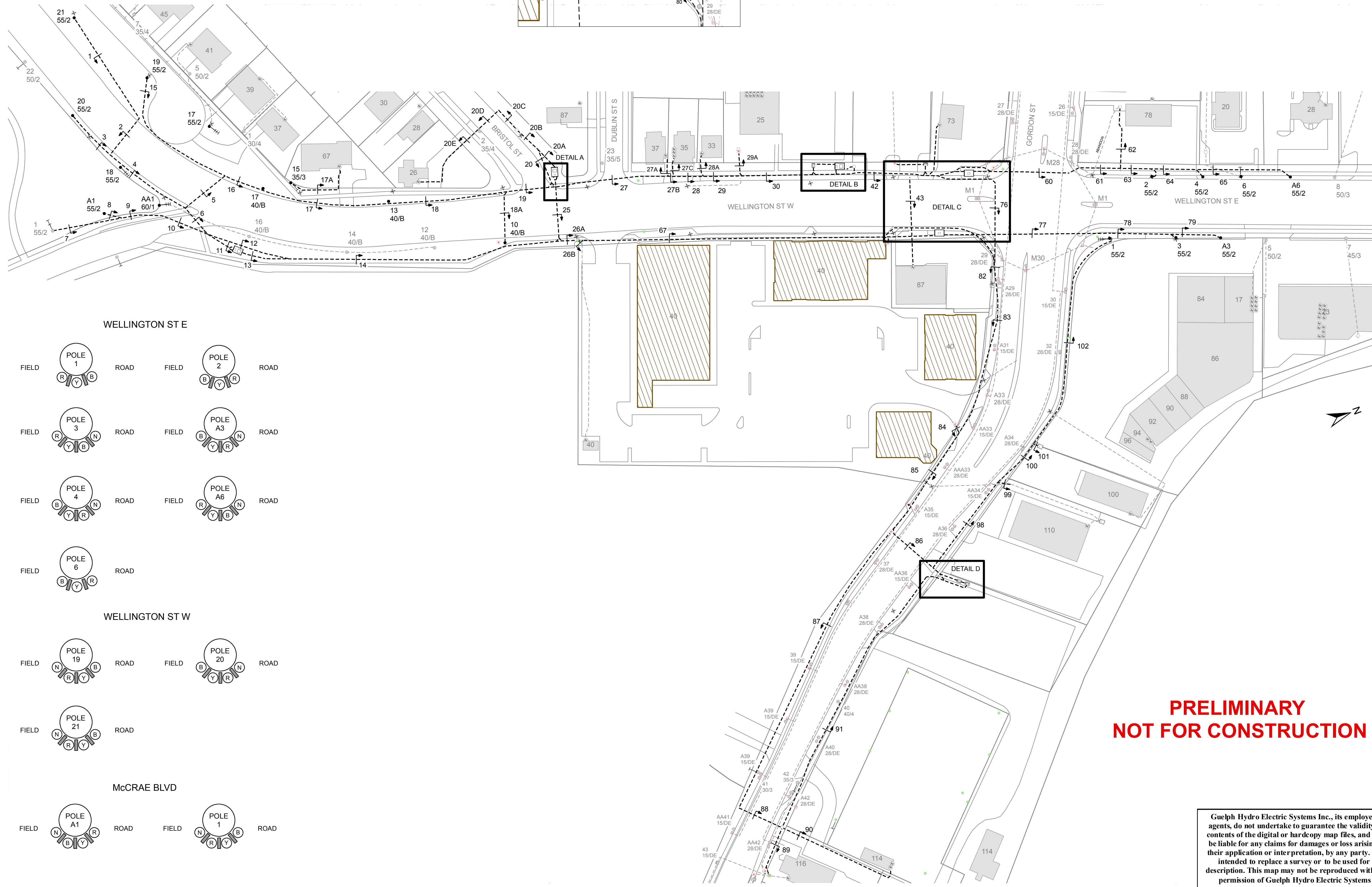


**DETAIL D**  
1:250



**LEGEND**

- 13, 860 VOLTS - THREE PHASE
- 8, 000 VOLTS - SINGLE PHASE
- SECONDARY
- PRIMARY METER
- BANKED TRANSFORMER
- CUSTOMER OWNED TRANSFORMER STATION
- PAD-MOUNTED TRANSFORMER - THREE PHASE
- PAD-MOUNTED TRANSFORMER - SINGLE PHASE
- POLE-MOUNTED TRANSFORMER - THREE PHASE
- POLE-MOUNTED TRANSFORMER - SINGLE PHASE
- POLE TRANSFORMER - ELLIOTT
- POLE TRANSFORMER - RELIANCE
- SUBMERSIBLE TRANSFORMER
- VAULT TRANSFORMER - THREE PHASE
- VAULT TRANSFORMER - SINGLE PHASE
- CAPACITOR
- FAULT CIRCUIT INDICATOR
- LIGHTNING ARRESTER
- MANHOLE
- VAULT
- OPEN SWITCH POINT
- OPEN BLADE SWITCH - THREE PHASE
- CLOSED BLADE SWITCH - THREE PHASE
- OPEN BLADE SWITCH - SINGLE PHASE
- CLOSED SWITCH BLADE - SINGLE PHASE
- OPEN FUSE SWITCH - THREE PHASE
- CLOSED FUSE SWITCH - THREE PHASE
- OPEN FUSE SWITCH - SINGLE PHASE
- CLOSED FUSE SWITCH - SINGLE PHASE
- OPEN VACUUM INTERRUPTER SWITCH - THREE PHASE
- CLOSED VACUUM INTERRUPTER SWITCH - THREE PHASE
- OPEN ELBOW
- CLOSED ELBOW
- PRIMARY CONNECTION BOX
- SECONDARY CONNECTION BOX
- TRANSFORMER PAD - THREE PHASE
- TRANSFORMER PAD - SINGLE PHASE
- SECONDARY METER
- HANDHOLE BREAKER
- STREET LIGHT SERVICE BOX
- EMS, EMS COIL
- TRENCH LINE
- STREET LIGHT
- MULTIPLE GUY, GUY
- POLE KEY
- EXISTING POLE
- NEW POLE
- POLE TO BE REMOVED



**PRELIMINARY  
NOT FOR CONSTRUCTION**

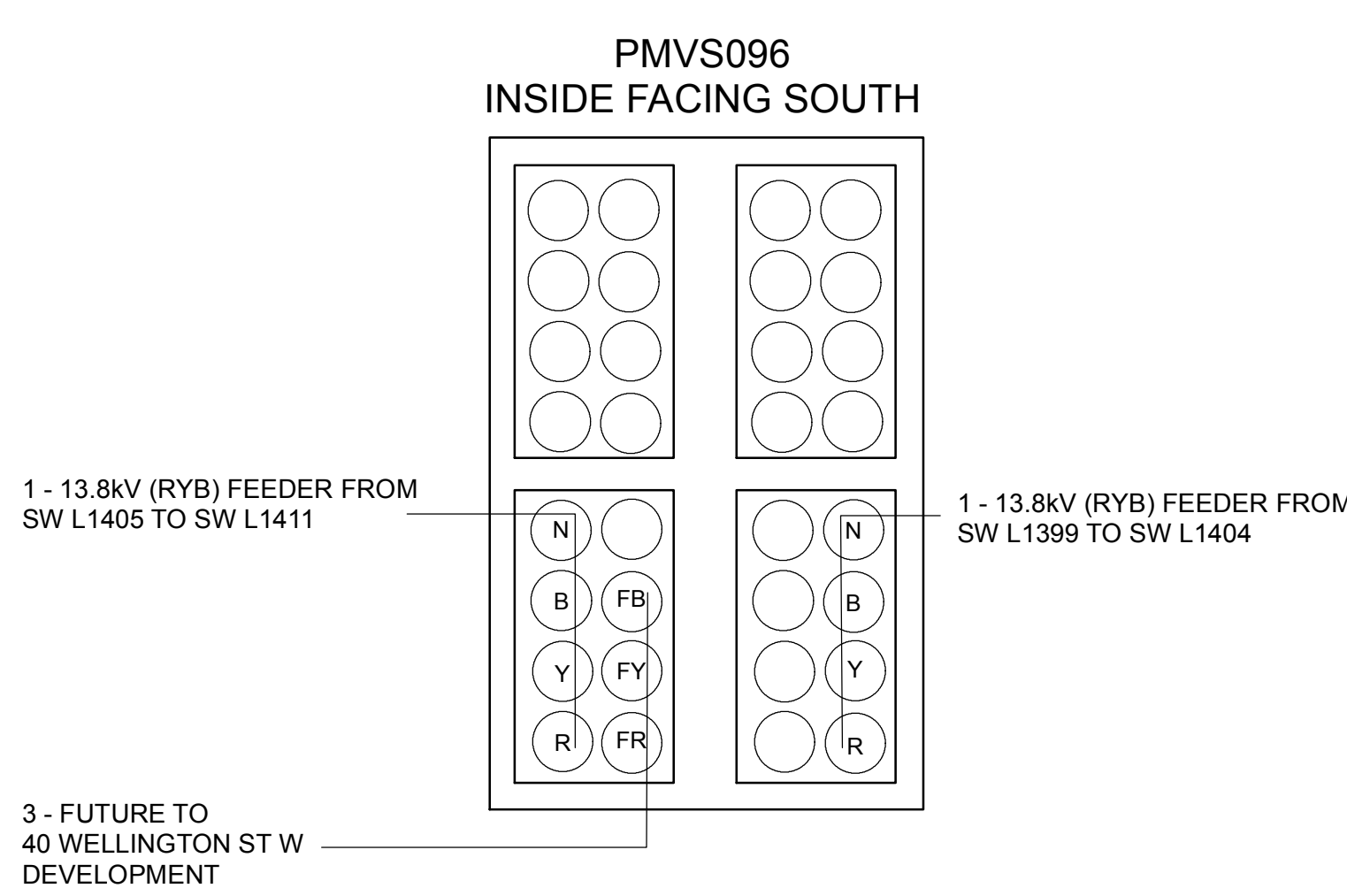
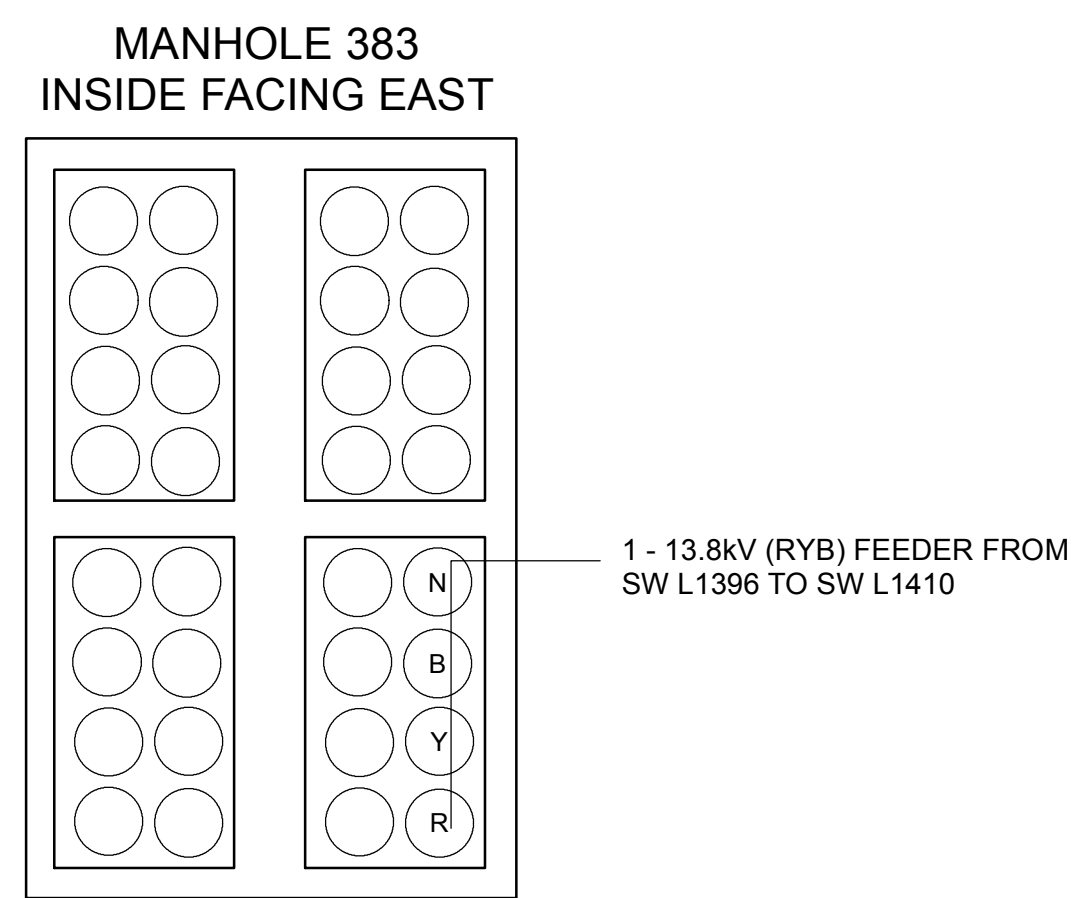
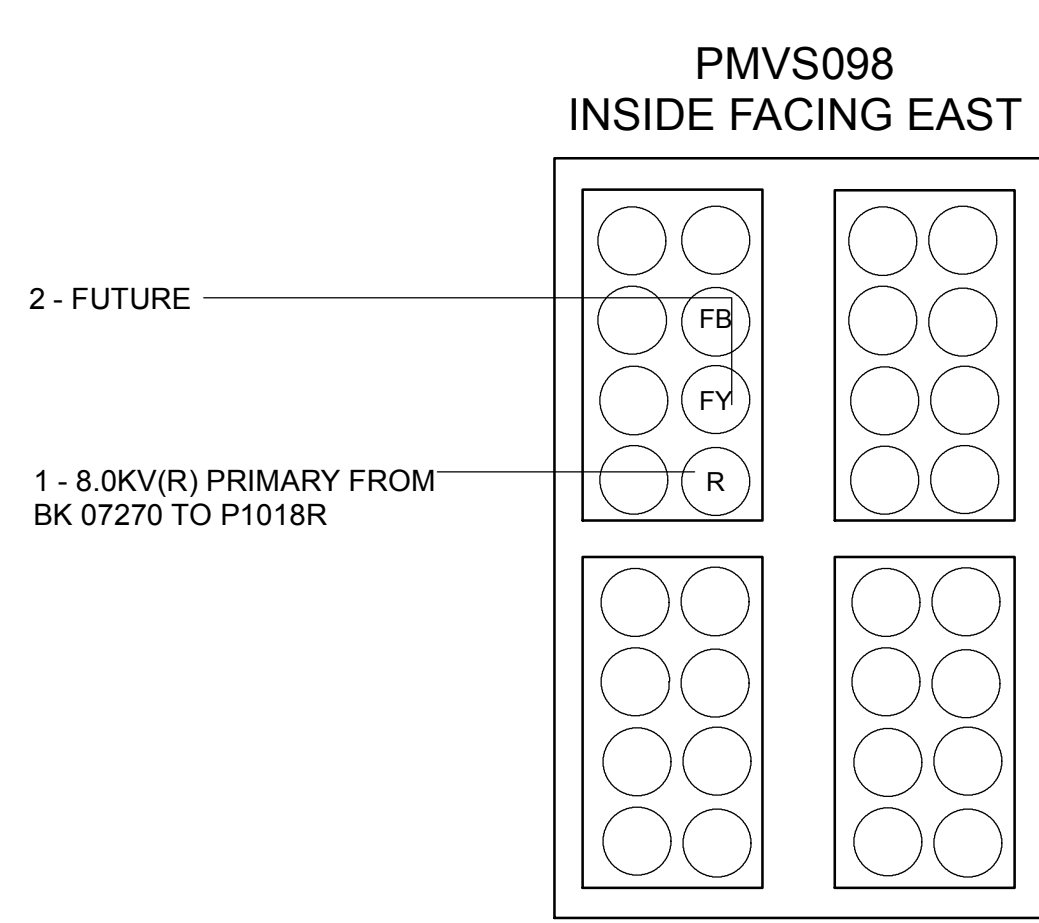
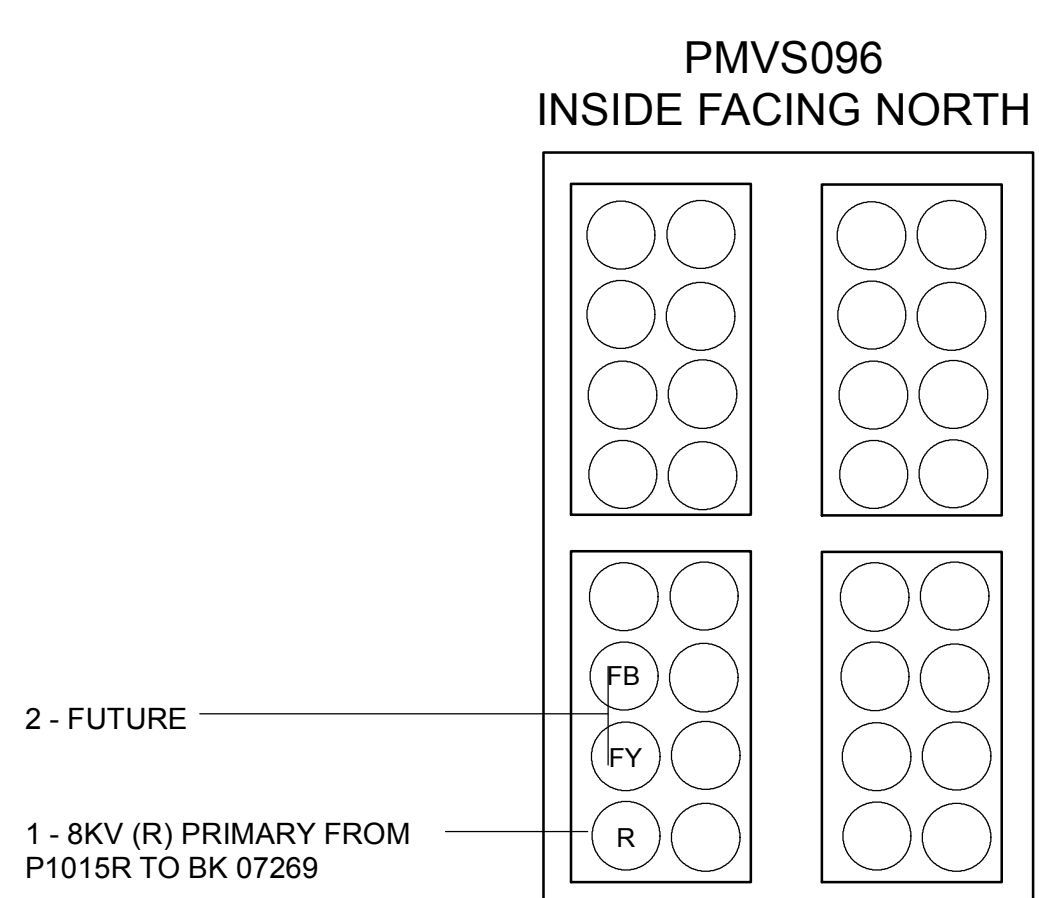
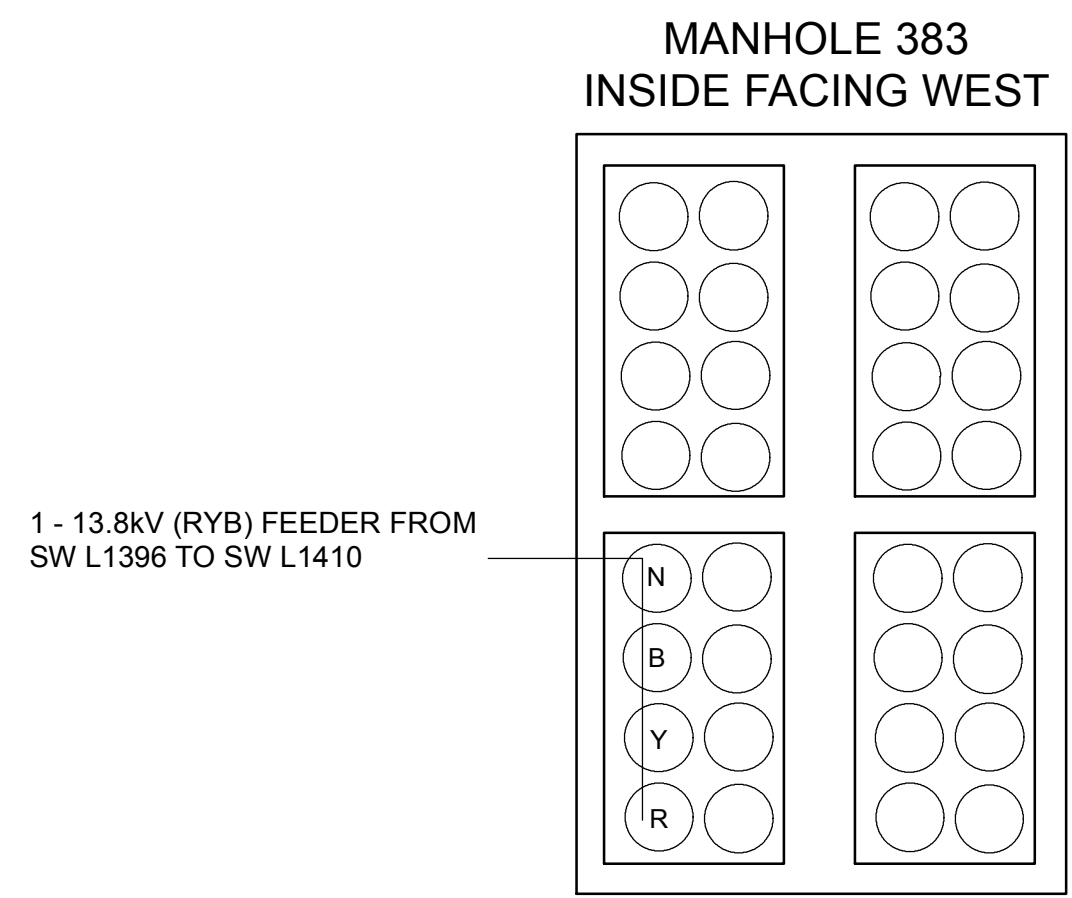
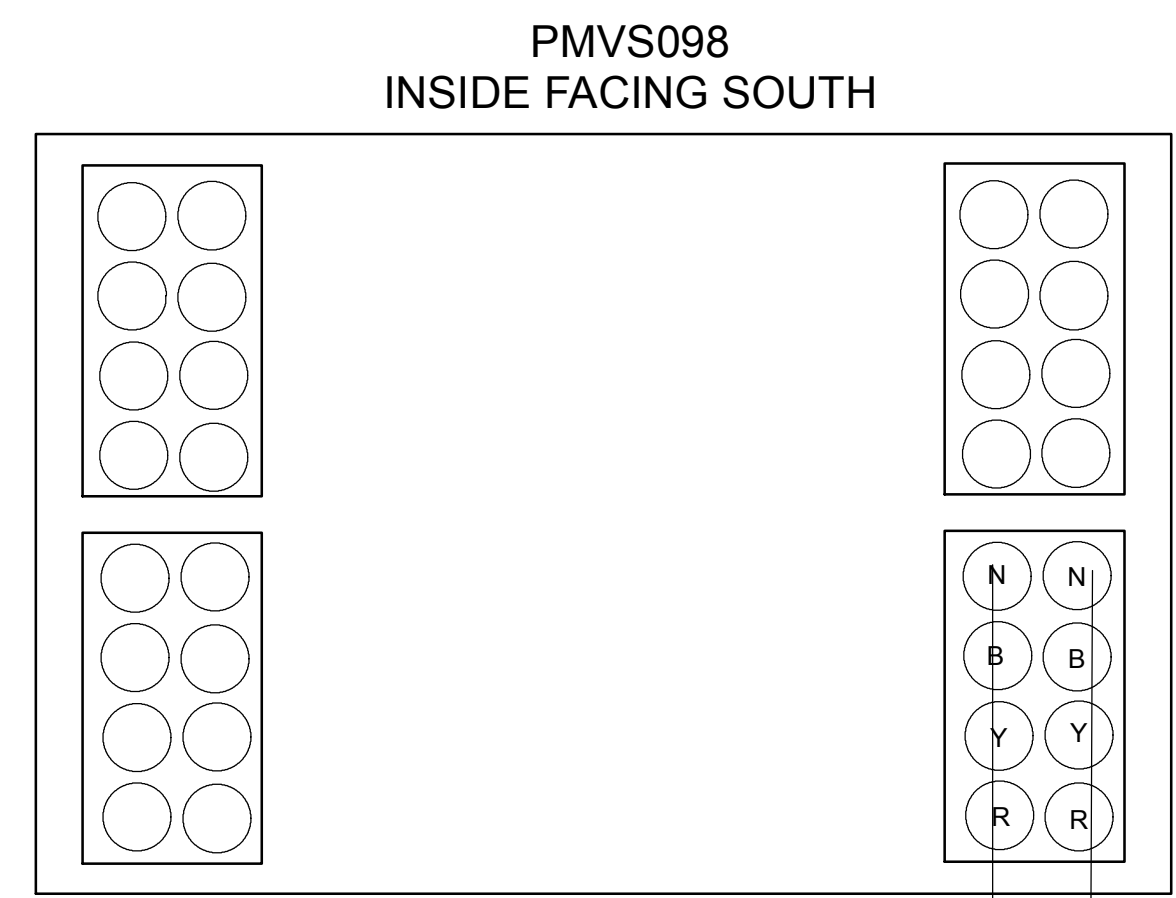
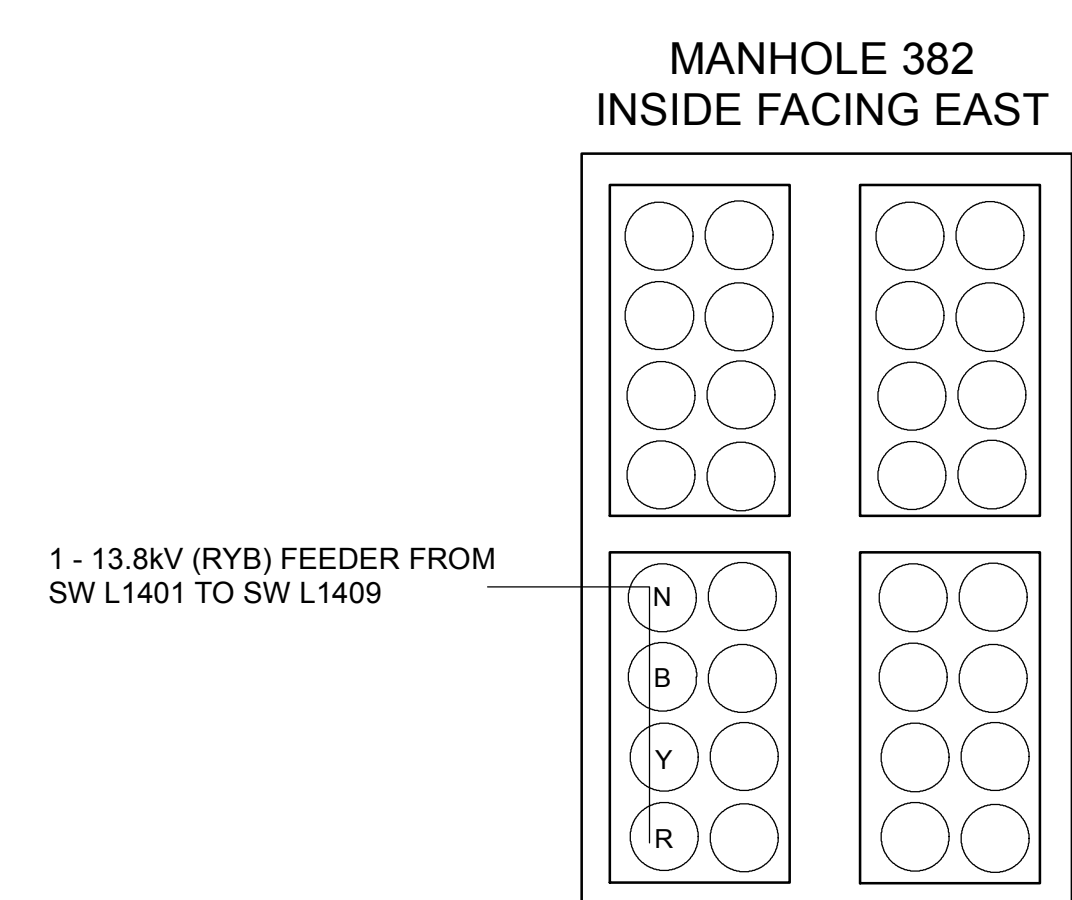
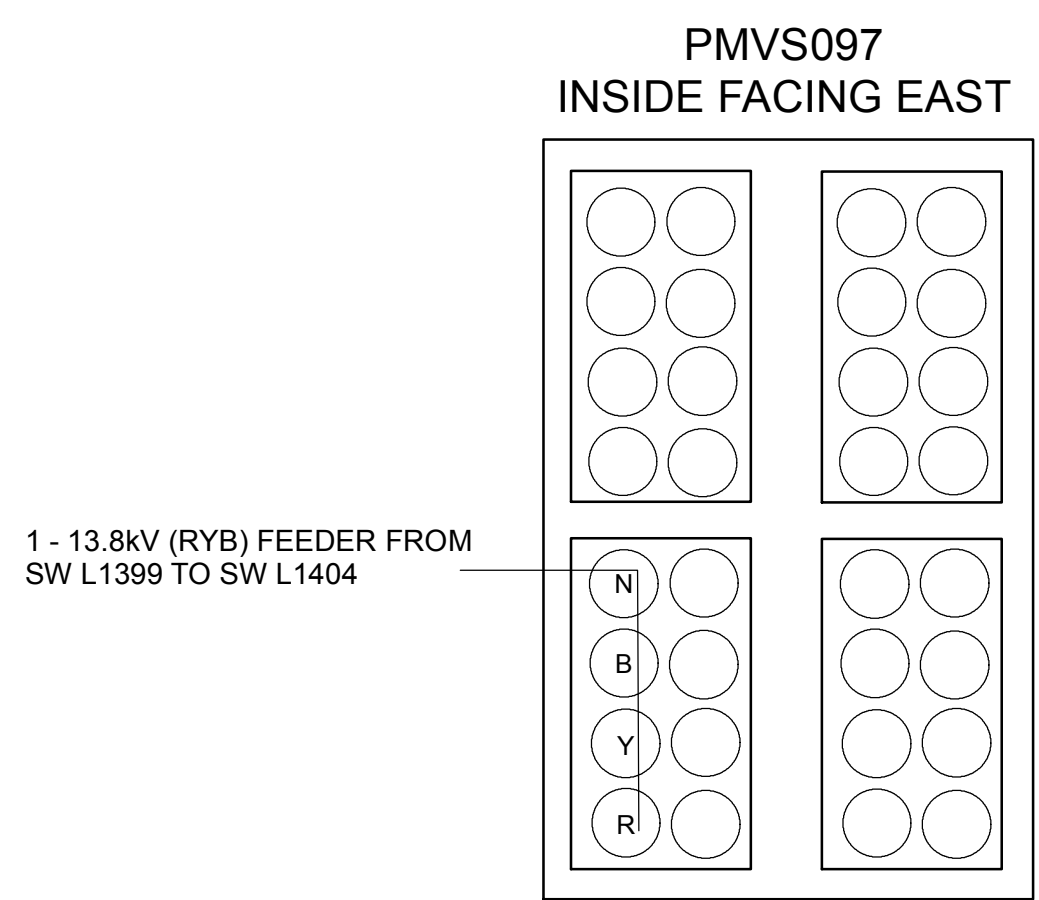
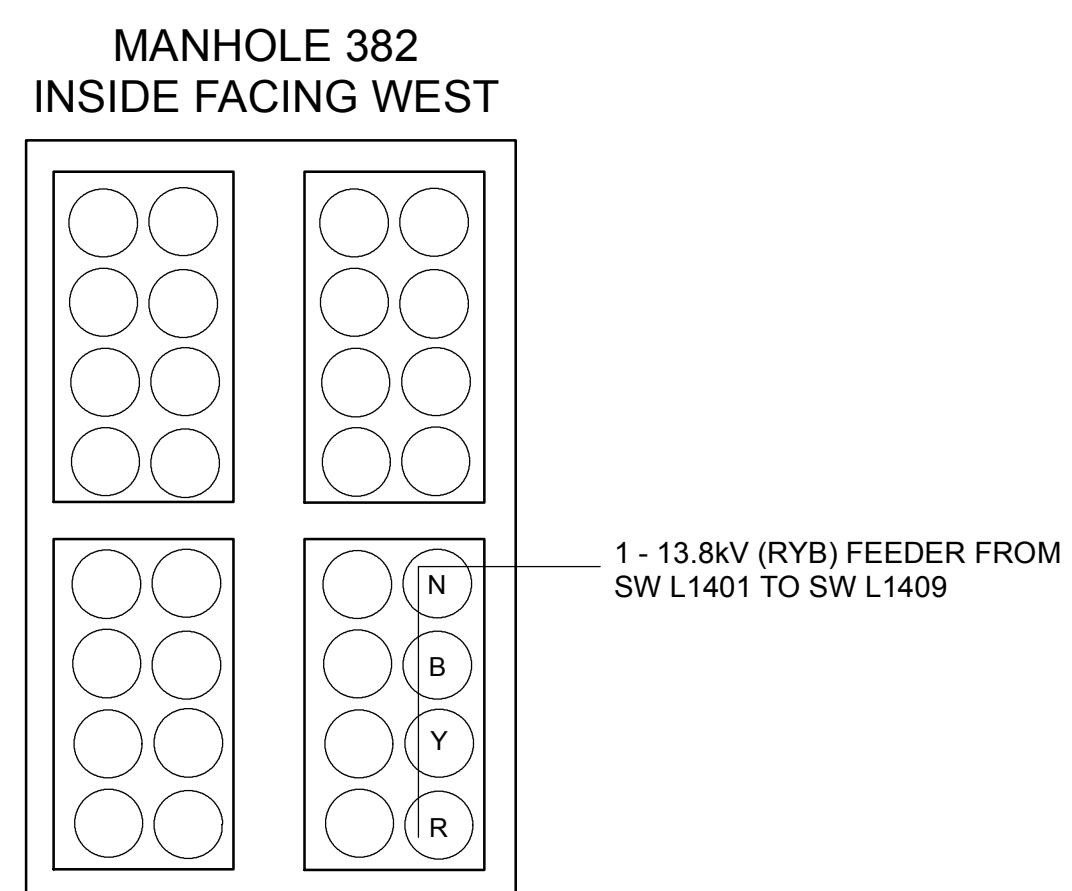
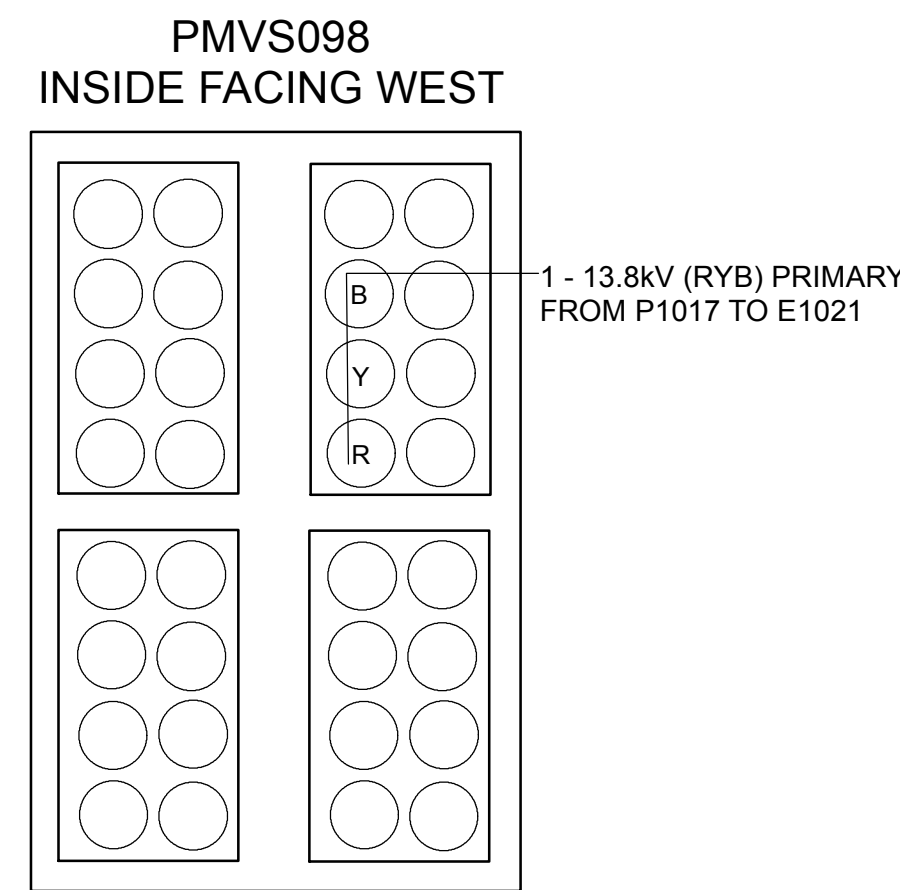
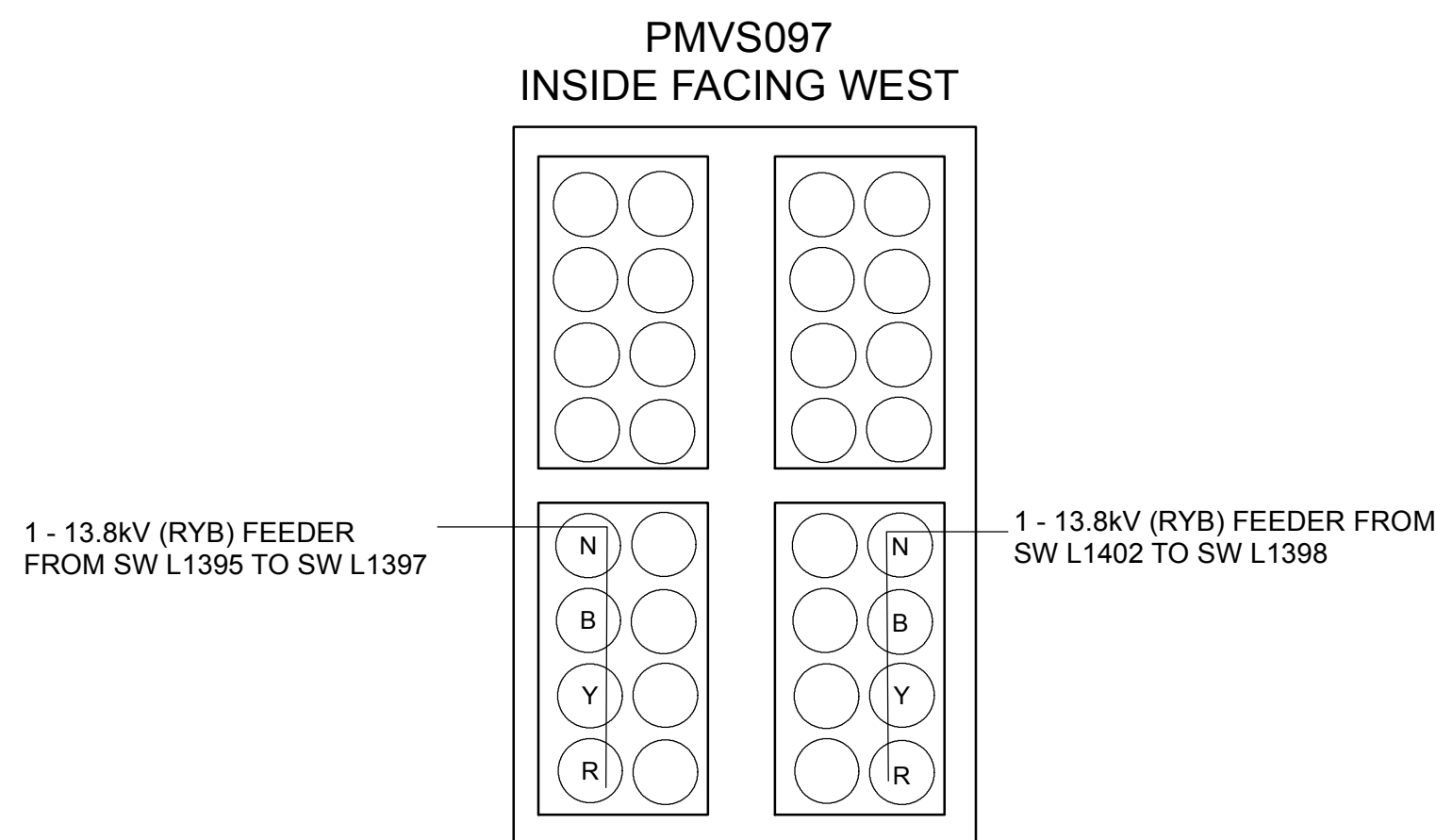
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TITLE  
**WELLINGTON ST W RECONSTRUCTION  
GORDON ST & WELLINGTON ST W  
CIVIL DETAILS**

DRAWN	L.NANIBUSH	DESIGNED	B. MCGREGOR
CHECKED		APPROVED	

WORK REQUEST / JOB ORDER NUMBER SUMMARY			
GHE (DIST)	682836-1 (CREL)	Contract (DIST)	682836-3 (CREL)
OH Poles	744924-3 (CREL)	Trench/Conduit	744924-3 (CREL)
and Guying	744924-1 (CREL)	and Devices	737954-3 (CFDR)
GHE (DIST)	682836-2 (CREL)	Contract (DIST)	682836-4 (CREL)
OH Conductors	744924-2 (CREL)	U/G Conductor	744924-4 (CREL)
and Devices	744924-6 (CFDR)	St. Lighting	737954-4 (CFDR)
GHE (DIST)	682836-6 (CREL)	GHE (DIST)	682836-7 (CREL)
OH Trans	744924-6 (CREL)	U/G Trans	744924-7 (CREL)
ON-STREET SERVICES	682836-14/15 (CREL)	GHE - OH St. Lighting	682837-2
	744924-14/15 (CREL)	GHE - U/G St. Lighting	682837-6
SCALE	1:750	DWG. NO.	2012014-RC21-D
DATE	2013/03/06		



**PRELIMINARY  
NOT FOR CONSTRUCTION**

NO.	REVISION DESCRIPTION	DATE
<b>TITLE</b> WELLINGTON ST W RECONSTRUCTION GORDON ST & WELLINGTON ST W MANHOLE DETAILS		
DRAWN	L.NANIBUSH	DESIGNED B. MCGREGOR
CHECKED		APPROVED
<b>WORK REQUEST / JOB ORDER NUMBER SUMMARY</b>		
GHESI (DIST) 682836-1 (CREL) OH Poles and Guying 744924-1 (CREL)	Contract (DIST) 744924-3 (CREL) Trench/Conduit 737954-3 (CFDR)	Connections of Cond. & Devices 744924-5 (CREL) 737954-5 (CFDR)
GHESI (DIST) 682836-2 (CREL) OH Conductors and Devices 744924-2 (CREL)	Contract (DIST) 744924-4 (CREL) U/G Conductor 737954-4 (CFDR)	Contract - U/G St. Lighting 682837-3
GHESI (DIST) 682836-6 (CREL) OH Trans 744924-6 (CREL)	GHESI (DIST) 682836-7 (CREL) U/G Trans 744924-7 (CREL)	GHES - OH St. Lighting 682837-2
ON-STREET SERVICES 682836-14/15 (CREL) 744924-14/15 (CREL)		GHES - U/G St. Lighting 682837-5
SCALE	N.T.S	DWG. NO.
DATE	2013/03/06	2012014-RC21-H