

APPENDIX

R STREETLIGHTING DESIGN

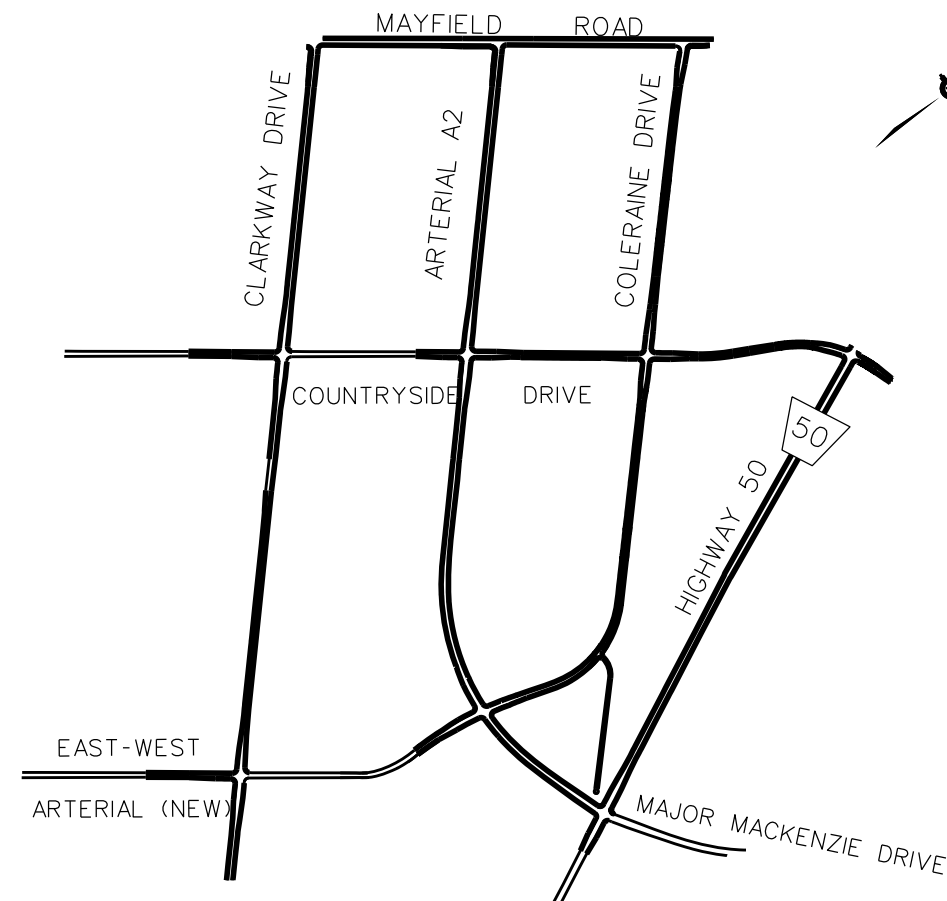
A large, white, chevron-shaped graphic element is positioned in the lower-left quadrant of the page. It consists of two parallel lines that meet at a point at the bottom, creating a wide, downward-pointing arrow shape. The lines are white and have a slight shadow or gradient, giving it a three-dimensional appearance as if it's a piece of paper or a sticker.

APPENDIX

R-1

STREETLIGHTING DESIGN

KEY MAP



STREETLIGHT SYMBOLS LEGEND

POLES AND ELECTRICAL CHAMBERS

- EXISTING CONCRETE POLE
- NEW CONCRETE POLE
- TEMPORARY WOOD POLE
- EXISTING WOOD POLE
- EXISTING CIRCULAR SPUN ALUMINUM POLE
- NEW CIRCULAR SPUN ALUMINUM POLE
- EXISTING STEEL POLE
- EXISTING HANDWELL (300mm)
- NEW HANDWELL (300mm)
- EXISTING JUNCTION BOX (450mm)
- NEW JUNCTION BOX (450mm)
- EXISTING MANHOLE (600mm x 600mm)

POLE EQUIPMENT AND CONNECTIONS

- EXISTING LUMINAIRE ON BRACKET
- NEW LUMINAIRE ON BRACKET
- INDICATES REMOVAL
- INDICATES ABANDON
- IN-LINE FUSE
- GROUND PLATE
- BACKGUY
- STREET LIGHT IDENTIFICATION TAG

POWER CONNECTIONS

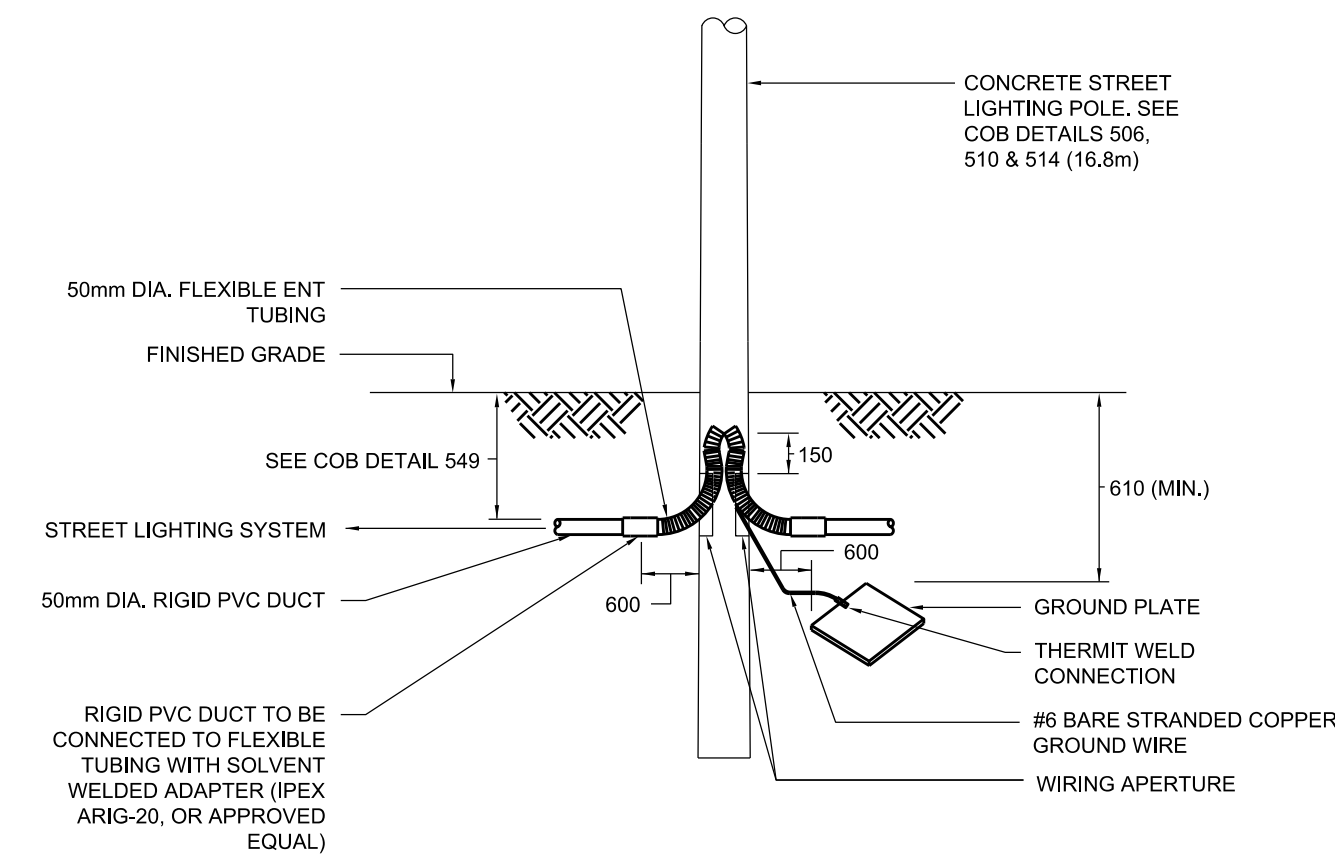
- HYDRO ONE BRAMPTON TRANSFORMER WITH IDENTIFICATION NUMBER
- EXISTING POLE-MOUNT TRANSFORMER
- PROPOSED POLE-MOUNT TRANSFORMER
- HYDRO-OWNED JUNCTION BOX
- POLE-MOUNT DISCONNECT WITH STREET LIGHT IDENTIFICATION NUMBER
- POWER PEDESTAL WITH STREET LIGHT IDENTIFICATION NUMBER
- 50A IN-POLE BREAKER
- DOUBLE 50A IN-POLE BREAKER

DUCTS

- EXISTING 50mm RIGID PVC DUCT
- NEW 50mm RIGID PVC DUCT
- EXISTING 100mm RIGID PVC DUCT
- NEW 100mm RIGID PVC DUCT
- EXISTING O/H SIL CABLE
- NEW O/H SIL CABLE

WIRING

- EX SL - EXISTING SIL CABLE
- HCU - HYDRO CABLE UNDERGROUND
- HCA - HYDRO CABLE AERIAL
- DENOTES JUNCTION BOX OR HANDWELL ON WIRING DIAGRAM



DUCT TERMINATION AND GROUNDING AT CONCRETE STREET LIGHTING POLES
DETAIL 1
N.T.S.

GENERAL NOTES

THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES PRIOR TO AND DURING CONSTRUCTION. THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE OF THEM.

THE CONTRACTOR SHALL MAINTAIN EXISTING ILLUMINATION AT ALL TIMES.

ALL WORK TO BE COORDINATED WITH CITY OF BRAMPTON REPRESENTATIVE.

- GENERAL NOTES:
- ALL DUCTS TO BE INSTALLED AS PER CITY OF BRAMPTON STANDARD DRAWING '549'.
 - CONCRETE POLES TO BE INSTALLED AS PER CITY OF BRAMPTON STANDARD DRAWING '510' AND DETAIL '1', AS SHOWN ON THIS DRAWING.
 - ELECTRICAL HANDWELLS TO BE INSTALLED AS PER CITY OF BRAMPTON STANDARD DRAWING 434.
 - ALL WORK ON HYDRO ONE BRAMPTON POLES SHALL BE COMPLETED IN ACCORDANCE WITH REGULATION 22/04 AND HYDRO ONE BRAMPTON STANDARDS 3-07, 3-21, 31-28, 31-50, 31-55, 31-60, 31-65, 31-85 AND 31-86.
 - CLEARANCES AND GUYING SHALL CONFORM TO C22-3 No.1.
 - BACK GUYS SHALL BE INSTALLED AS PER OPSD 2235.01 AND APPLICABLE REFERENCED OPSD'S.
 - THE MATERIAL REMOVED FROM TUNNELLING UNDER THE EXISTING CURB AND GUTTER OR SIDEWALK MUST BE REPLACED BY TAMPING INTERMITTENTLY TO ENSURE PROPER COMPACTION WITH NO CAVITIES.
 - ALL CONNECTIONS FOR THE BURIED CABLE ARE TO BE MADE IN THE HANDHOLE OF THE CONCRETE POLES UNLESS OTHERWISE SPECIFIED.
 - THE CONTRACTOR IS TO CONTACT HYDRO ONE OF BRAMPTON FOR ALL CONNECTIONS TO DISCONNECTIONS FROM HYDRO DEMARCATON POINTS.
 - GROUND PROPOSED POLES USING NO. 6 AWG GREEN GROUND WIRE. CONNECTION IS TO BE MADE USING THERMIT WELD 'T' SPLICE. CHECK THE RESISTANCE TO GROUND.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THEY HAVE AN UP TO DATE SET OF CITY OF BRAMPTON, HYDRO ONE BRAMPTON & OPSD STANDARD DRAWINGS.
 - ALL CITY OF BRAMPTON CONCRETE LIGHTING POLES ARE TO BE LOCATED AT A MINIMUM DISTANCE OF 300mm FROM EDGE OF SIDEWALK TO FACE OF POLE.

NOTES

STREET LIGHT POLE DETAILS

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE				ARM & HEAD				GROUND ROD	IN-POLE BREAKER	
				TYPE / MATERIAL	HEIGHT	BRACKET	WATTAGE	TYPE / MATERIAL	HEIGHT	BRACKET	WATTAGE			

SCHEDULE OF APPROVALS

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2	DEC 14/21	VS	ISSUED FOR FINAL PRELIMINARY	MM
3	JUNE 29/22	VS	RE-ISSUED FOR FINAL PRELIMINARY	MM

SCALE: 1 : 500

DESIGNED BY: M.M. CHECKED BY: M.M.

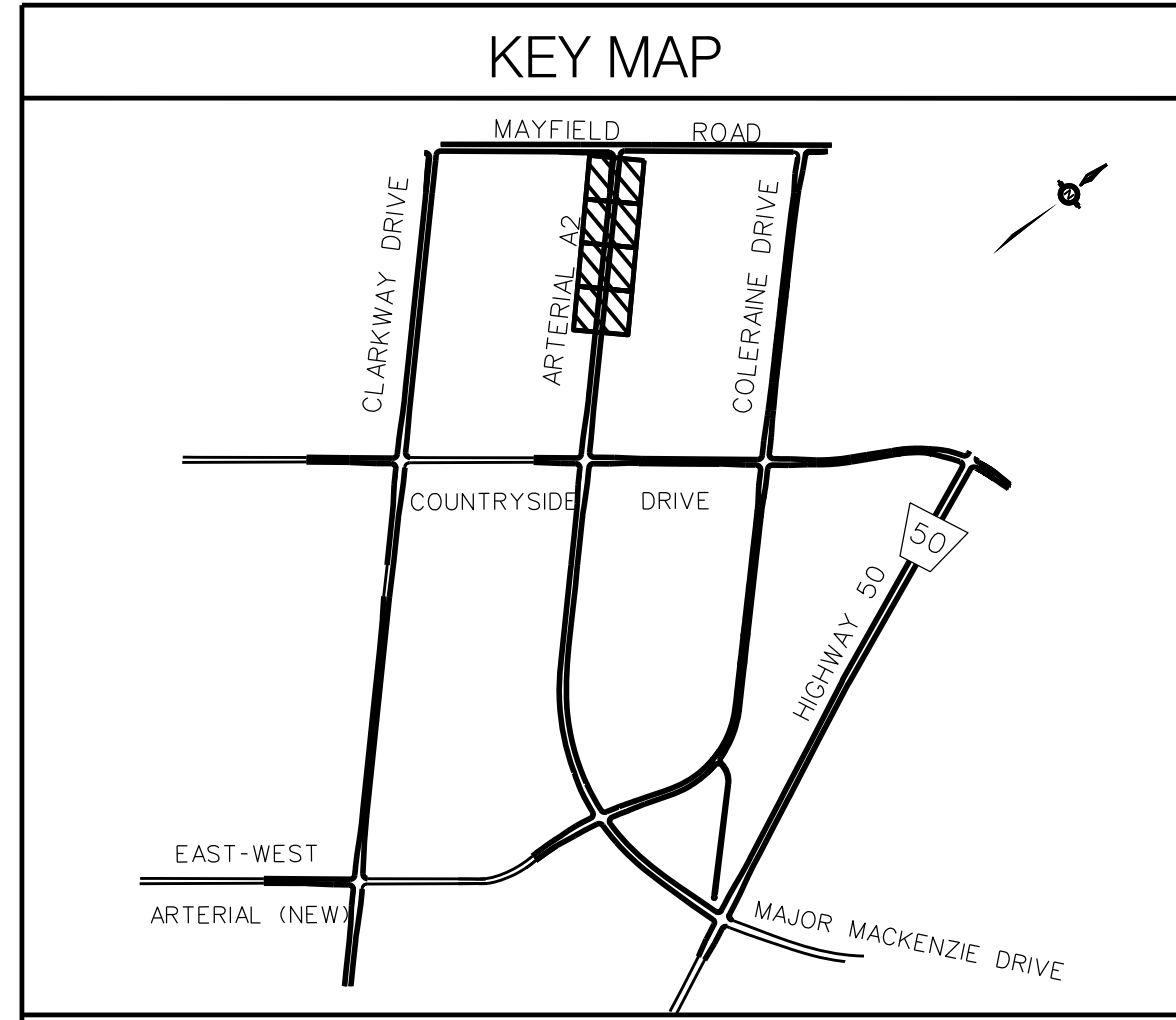
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CONTRACT NO: 2013-012 APPROVAL DATE: _____

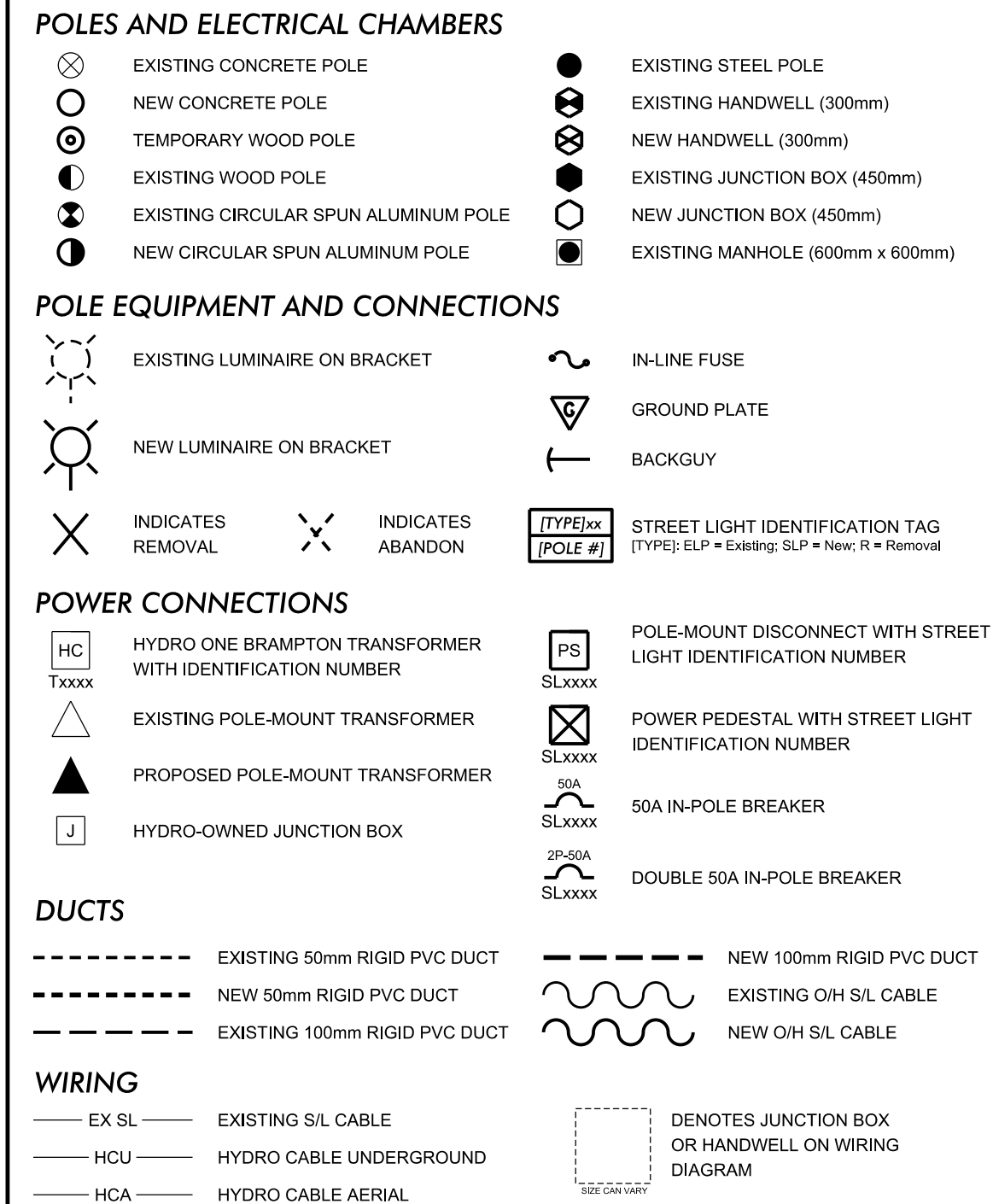


ARTERIAL A2
MAYFIELD DRIVE TO COUNTRYSIDE DRIVE
PROPOSED STREET LIGHTING - LAYOUT I

DWG. NO.: N1-10SL-XX SHT NO.: SL-1



STREETLIGHT SYMBOLS LEGEND



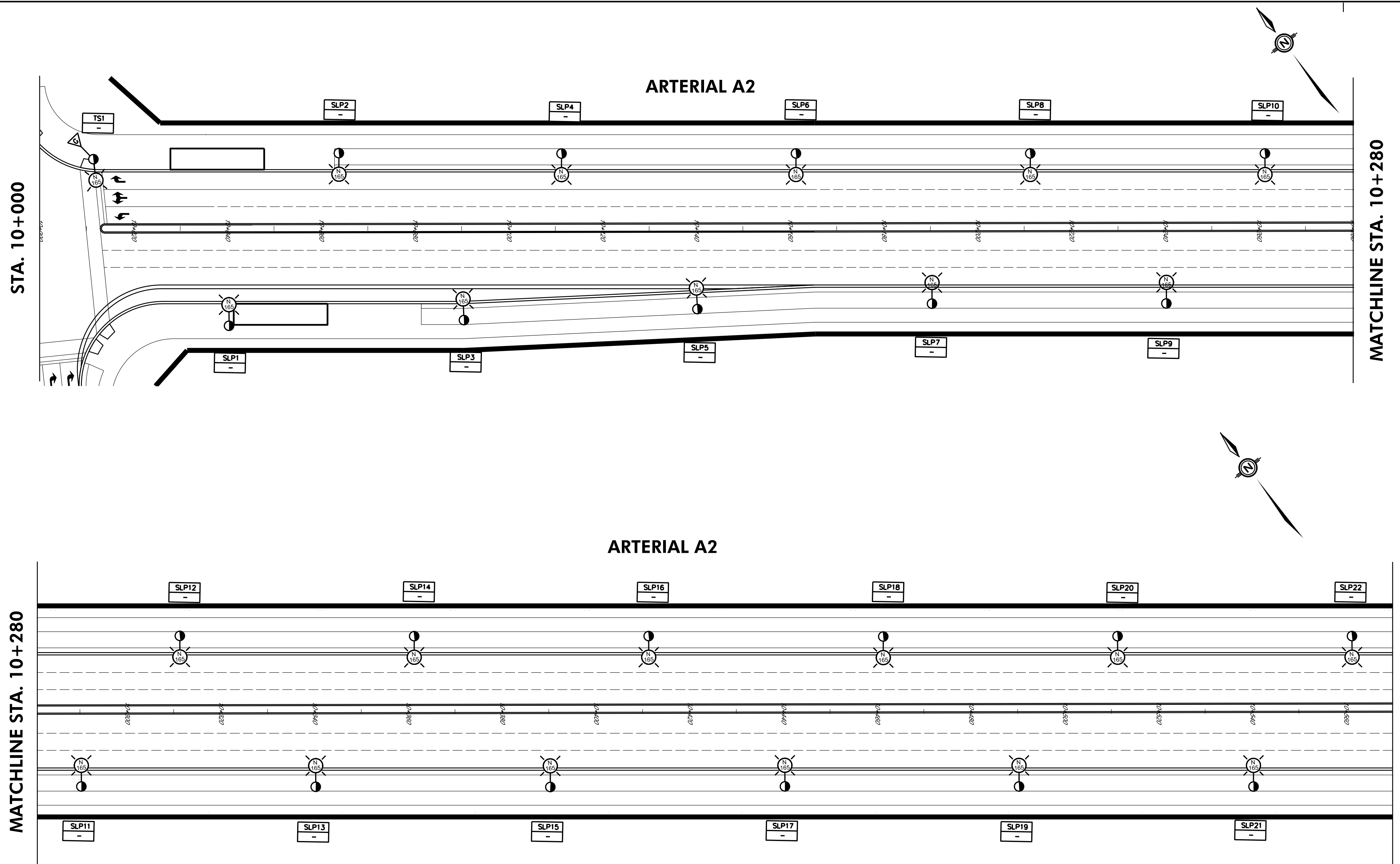
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STREET LIGHT POLE DETAILS

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE TYPE / MATERIAL	HEIGHT	ARM & HEAD BRACKET	WATTAGE	GROUND ROD	IN-POLE BREAKER

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DESIGNED BY: M.M. CHECKED BY: M.M.

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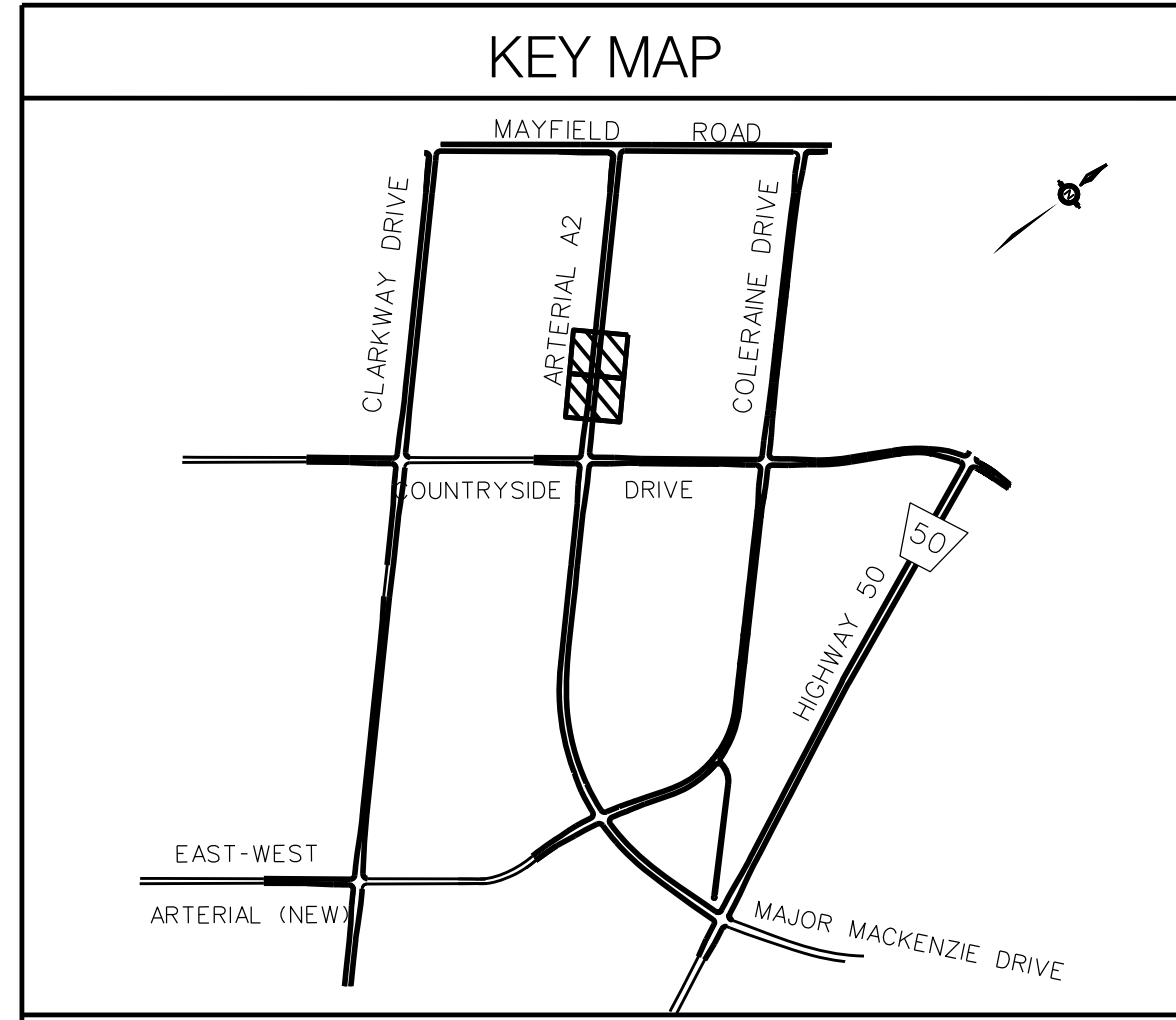
CONTRACT NO: 2013-012 APPROVAL DATE: _____



ARTERIAL A2
MAYFIELD DRIVE TO COUNTRYSIDE DRIVE
PROPOSED STREET LIGHTING - LAYOUT I

DWG. NO.: N1-10SL-XX | SHT NO.: SL-2

N1-10SL-XX



STREETLIGHT SYMBOLS LEGEND

POLES AND ELECTRICAL CHAMBERS

- EXISTING CONCRETE POLE
- NEW CONCRETE POLE
- TEMPORARY WOOD POLE
- EXISTING WOOD POLE
- EXISTING CIRCULAR SPUN ALUMINUM POLE
- NEW CIRCULAR SPUN ALUMINUM POLE
- EXISTING STEEL POLE
- EXISTING HANDWELL (300mm)
- NEW HANDWELL (300mm)
- EXISTING JUNCTION BOX (450mm)
- NEW JUNCTION BOX (450mm)
- EXISTING MANHOLE (600mm x 600mm)

POLE EQUIPMENT AND CONNECTIONS

- EXISTING LUMINAIRE ON BRACKET
- NEW LUMINAIRE ON BRACKET
- INDICATES REMOVAL
- INDICATES ABANDON
- IN-LINE FUSE
- GROUND PLATE
- BACKGUY
- STREET LIGHT IDENTIFICATION TAG (TYPE: SLP - Existing, SLP - New, R - Removal)

POWER CONNECTIONS

- HYDRO ONE BRAMPTON TRANSFORMER WITH IDENTIFICATION NUMBER
- EXISTING POLE-MOUNT TRANSFORMER
- PROPOSED POLE-MOUNT TRANSFORMER
- HYDRO-OWNED JUNCTION BOX
- POLE-MOUNT DISCONNECT WITH STREET LIGHT IDENTIFICATION NUMBER
- POWER PEDESTAL WITH STREET LIGHT IDENTIFICATION NUMBER
- 50A IN-POLE BREAKER
- DOUBLE 50A IN-POLE BREAKER

DUCTS

- EXISTING 50mm RIGID PVC DUCT
- NEW 50mm RIGID PVC DUCT
- EXISTING 100mm RIGID PVC DUCT
- NEW 100mm RIGID PVC DUCT
- EXISTING O/H SIL CABLE
- NEW O/H SIL CABLE

WIRING

- EX SL - EXISTING SIL CABLE
- HCU - HYDRO CABLE UNDERGROUND
- HCA - HYDRO CABLE AERIAL
- DENOTES JUNCTION BOX OR HANDWELL ON WIRING DIAGRAM

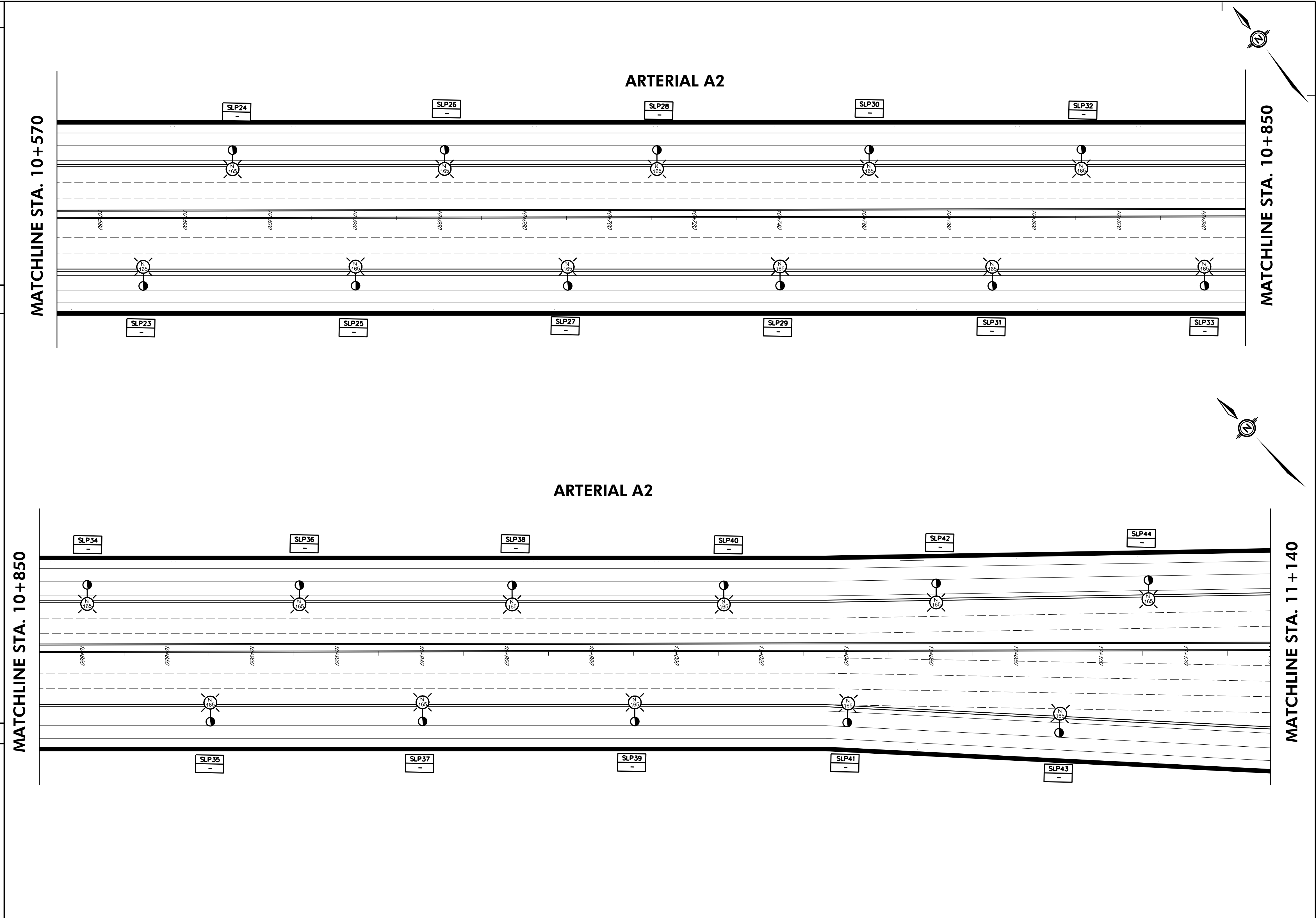
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STREET LIGHT POLE DETAILS

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE TYPE / MATERIAL	HEIGHT	ARM & HEAD BRACKET	WATTAGE	GROUND ROD	IN-POLE BREAKER

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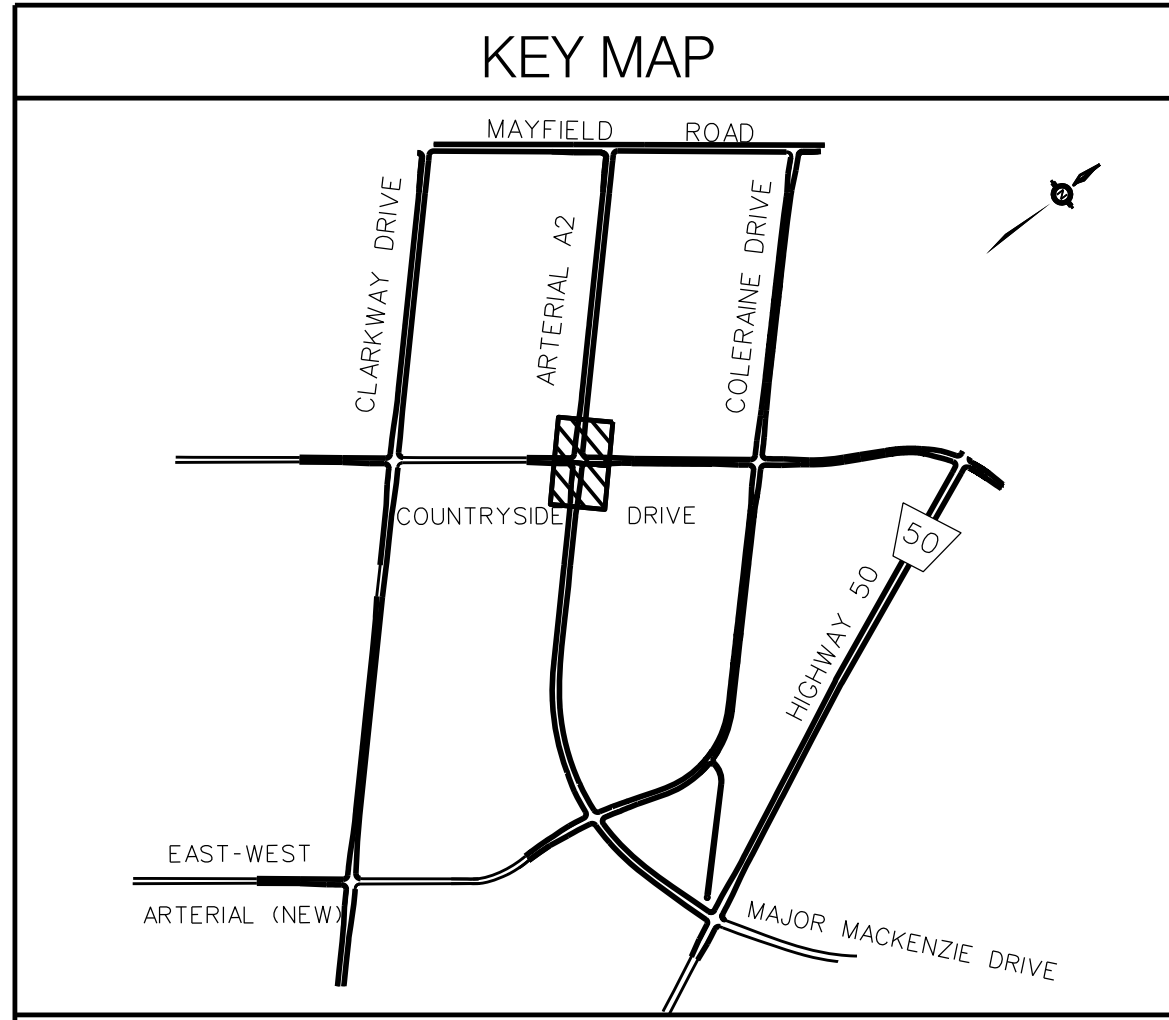
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Moon-Matz Ltd.
Consulting Engineers

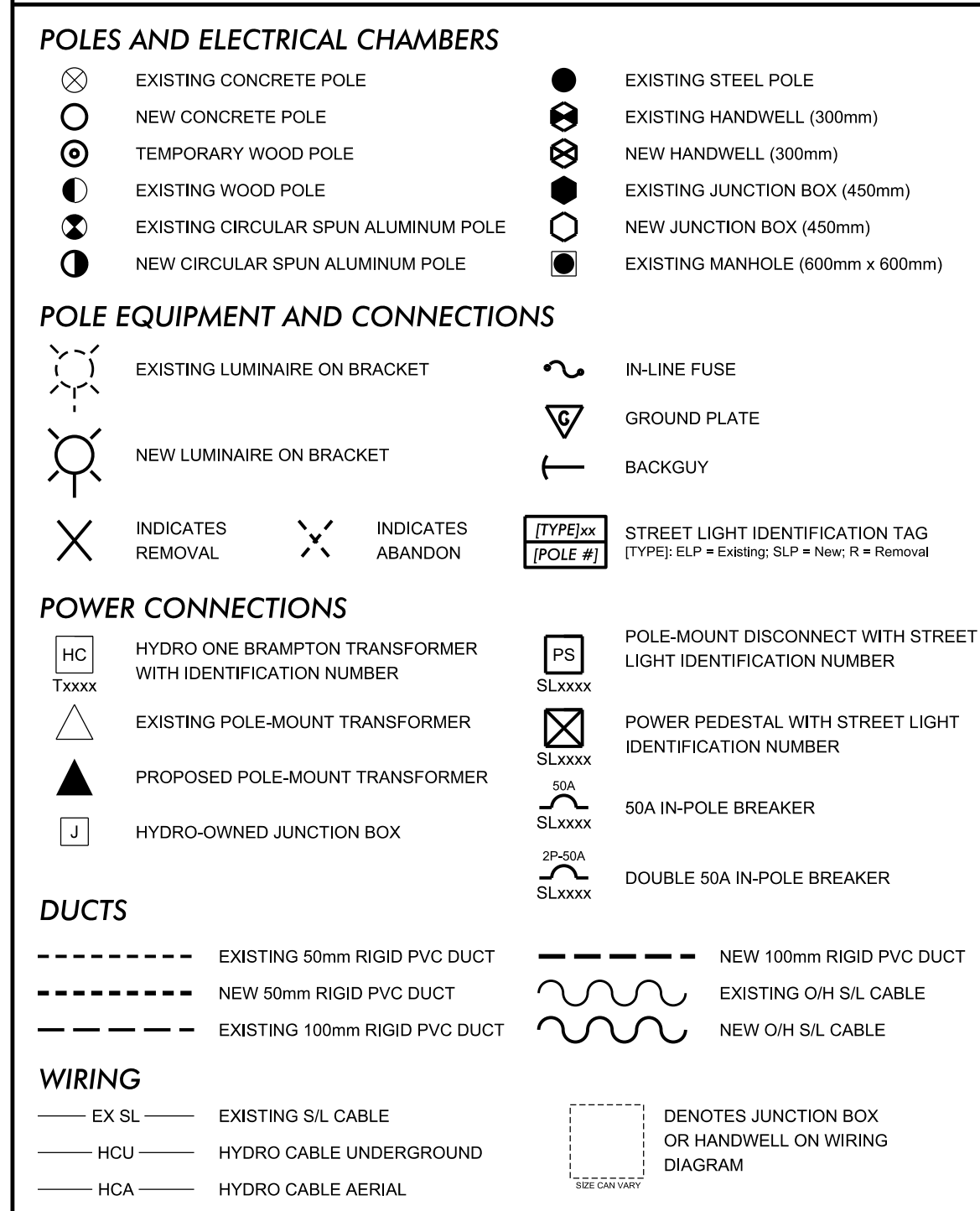
BRAMPTON Planning and Infrastructure Services
Flower City
Public Works

ARTERIAL A2
MAYFIELD DRIVE TO COUNTRYSIDE DRIVE
PROPOSED STREET LIGHTING - LAYOUT II

DWG. NO.: N1-10SL-XX SHT NO.: SL-3



STREETLIGHT SYMBOLS LEGEND



GENERAL NOTES

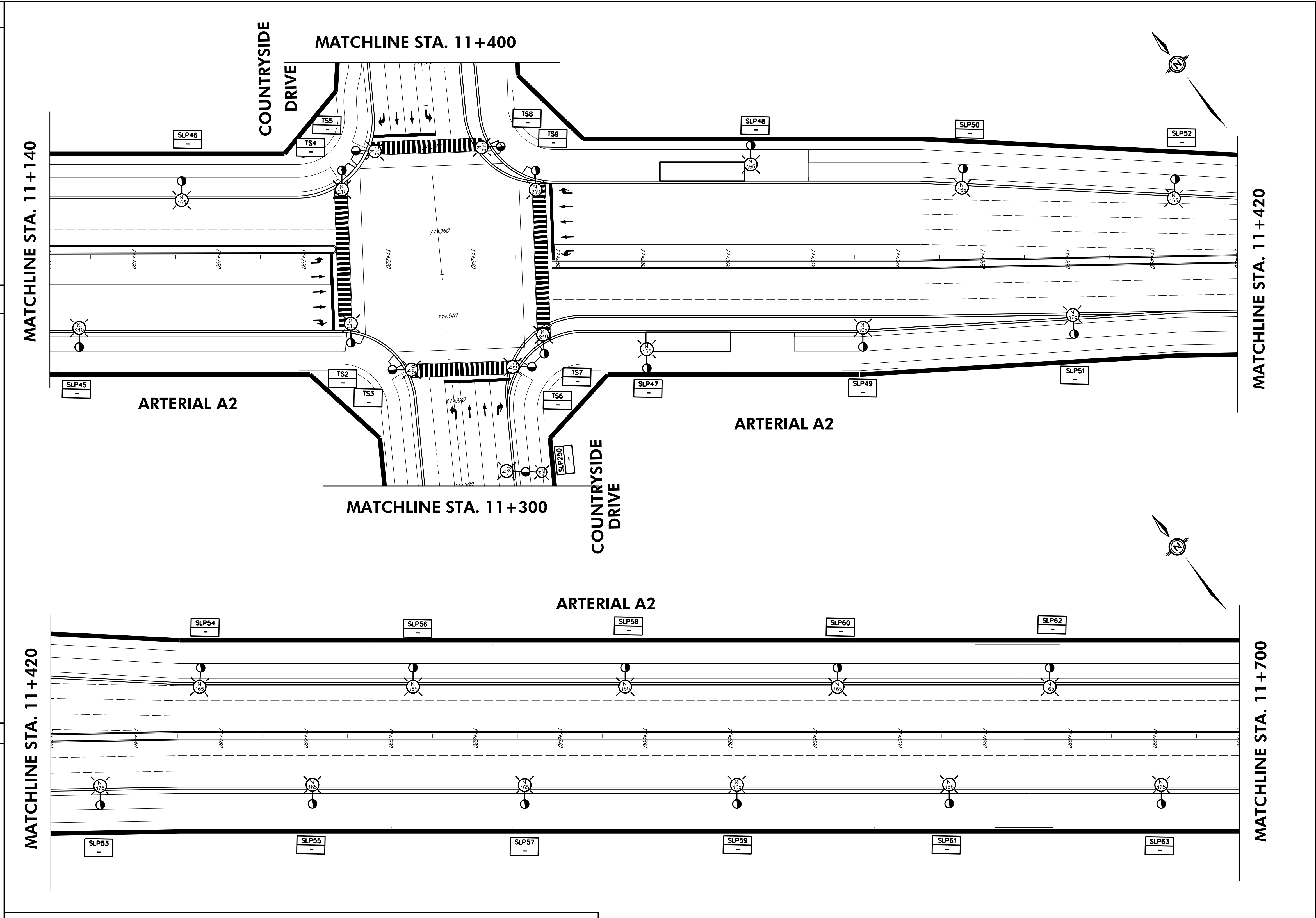
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NOTES

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE TYPE / MATERIAL	HEIGHT	ARM & HEAD BRACKET	WATTAGE	GROUND ROD	IN-POLE BREAKER



STREET LIGHT POLE DETAILS

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE TYPE / MATERIAL	HEIGHT	ARM & HEAD BRACKET	WATTAGE	GROUND ROD	IN-POLE BREAKER

SCHEDULE OF APPROVALS

NO.	DATE	BY	DESCRIPTION	CHECKED BY
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2	DEC 14/21	VS	ISSUED FOR FINAL PRELIMINARY	MM
3	JUNE 29/22	VS	RE-ISSUED FOR FINAL PRELIMINARY	MM

SCALE: 1 : 500 DESIGNED BY: M.M. CHECKED BY: L.S.

DATE: July 16, 2021 APPROVAL: _____

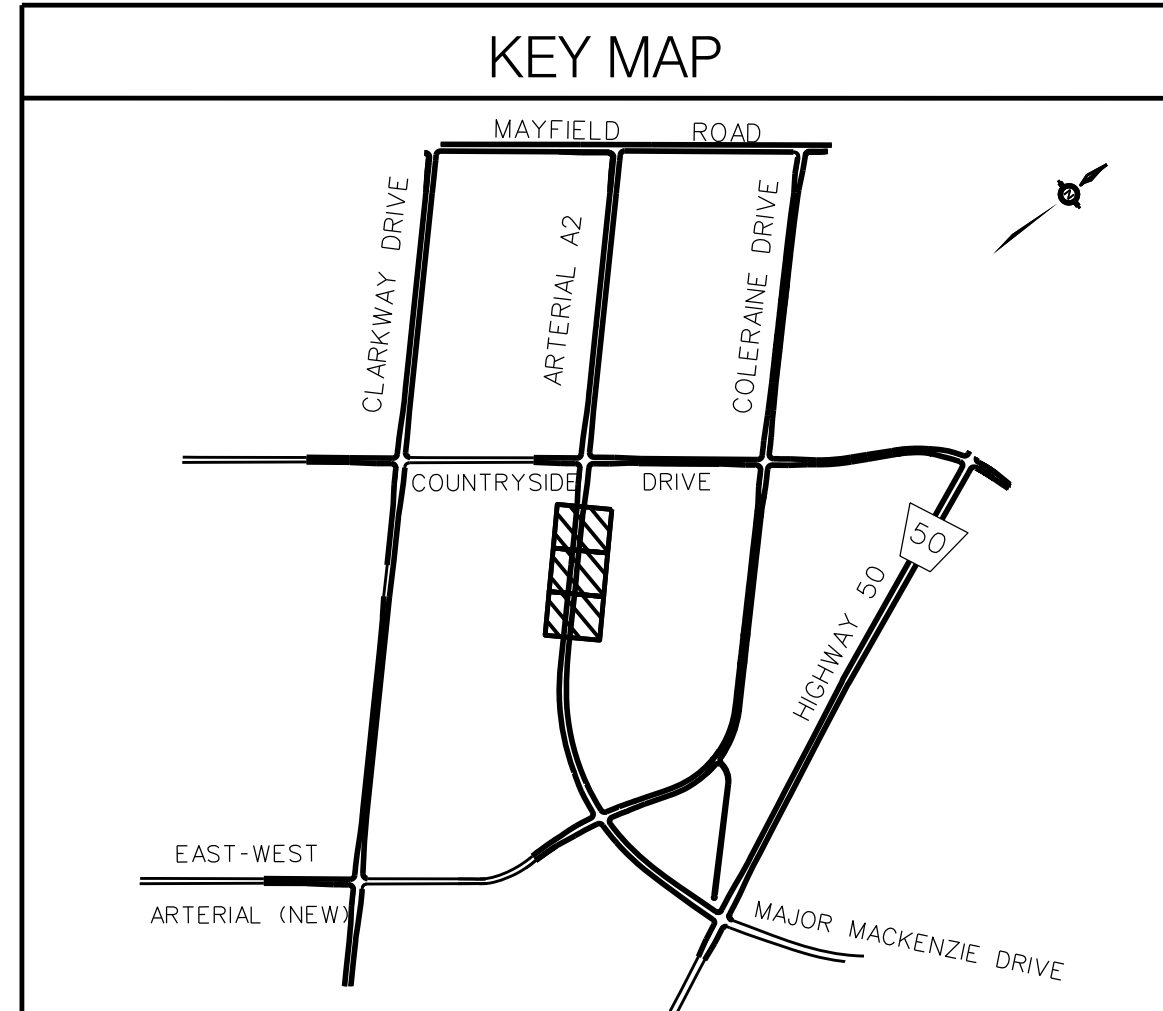
CONTRACT NO: 2013-012 APPROVAL DATE: _____

Moon-Matz Ltd.
Consulting Engineers

BRAMPTON Flower City Planning and Infrastructure Services
Public Works

ARTERIAL A2
COUNTRYSIDE TO COLERAIN DRIVE
PROPOSED STREET LIGHTING - LAYOUT III

DWG. NO.: N1-10SL-XX **SHT NO.: SL-4**



STREETLIGHT SYMBOLS LEGEND

POLES AND ELECTRICAL CHAMBERS

- EXISTING CONCRETE POLE
- NEW CONCRETE POLE
- TEMPORARY WOOD POLE
- EXISTING WOOD POLE
- EXISTING CIRCULAR SPUN ALUMINUM POLE
- NEW CIRCULAR SPUN ALUMINUM POLE
- EXISTING STEEL POLE
- EXISTING HANDWELL (300mm)
- NEW HANDWELL (300mm)
- EXISTING JUNCTION BOX (450mm)
- NEW JUNCTION BOX (450mm)
- EXISTING MANHOLE (600mm x 600mm)

POLE EQUIPMENT AND CONNECTIONS

- EXISTING LUMINAIRE ON BRACKET
- NEW LUMINAIRE ON BRACKET
- IN-LINE FUSE
- GROUND PLATE
- BACKGUY
- INDICATES REMOVAL
- INDICATES ABANDON
- STREET LIGHT IDENTIFICATION TAG (TYPE) (SLP - Existing, SLR - New, R - Removal)

POWER CONNECTIONS

- HYDRO ONE BRAMPTON TRANSFORMER WITH IDENTIFICATION NUMBER
- EXISTING POLE-MOUNT TRANSFORMER
- PROPOSED POLE-MOUNT TRANSFORMER
- HYDRO-OWNED JUNCTION BOX
- POLE-MOUNT DISCONNECT WITH STREET LIGHT IDENTIFICATION NUMBER
- POWER PEDESTAL WITH STREET LIGHT IDENTIFICATION NUMBER
- 50A IN-POLE BREAKER
- DOUBLE 50A IN-POLE BREAKER

DUCTS

- EXISTING 50mm RIGID PVC DUCT
- NEW 50mm RIGID PVC DUCT
- EXISTING 100mm RIGID PVC DUCT
- NEW 100mm RIGID PVC DUCT
- EXISTING O/H SIL CABLE
- NEW O/H SIL CABLE

WIRING

- EX SL - EXISTING SIL CABLE
- HCU - HYDRO CABLE UNDERGROUND
- HCA - HYDRO CABLE AERIAL
- DENOTES JUNCTION BOX OR HANDWELL ON WIRING DIAGRAM

GENERAL NOTES

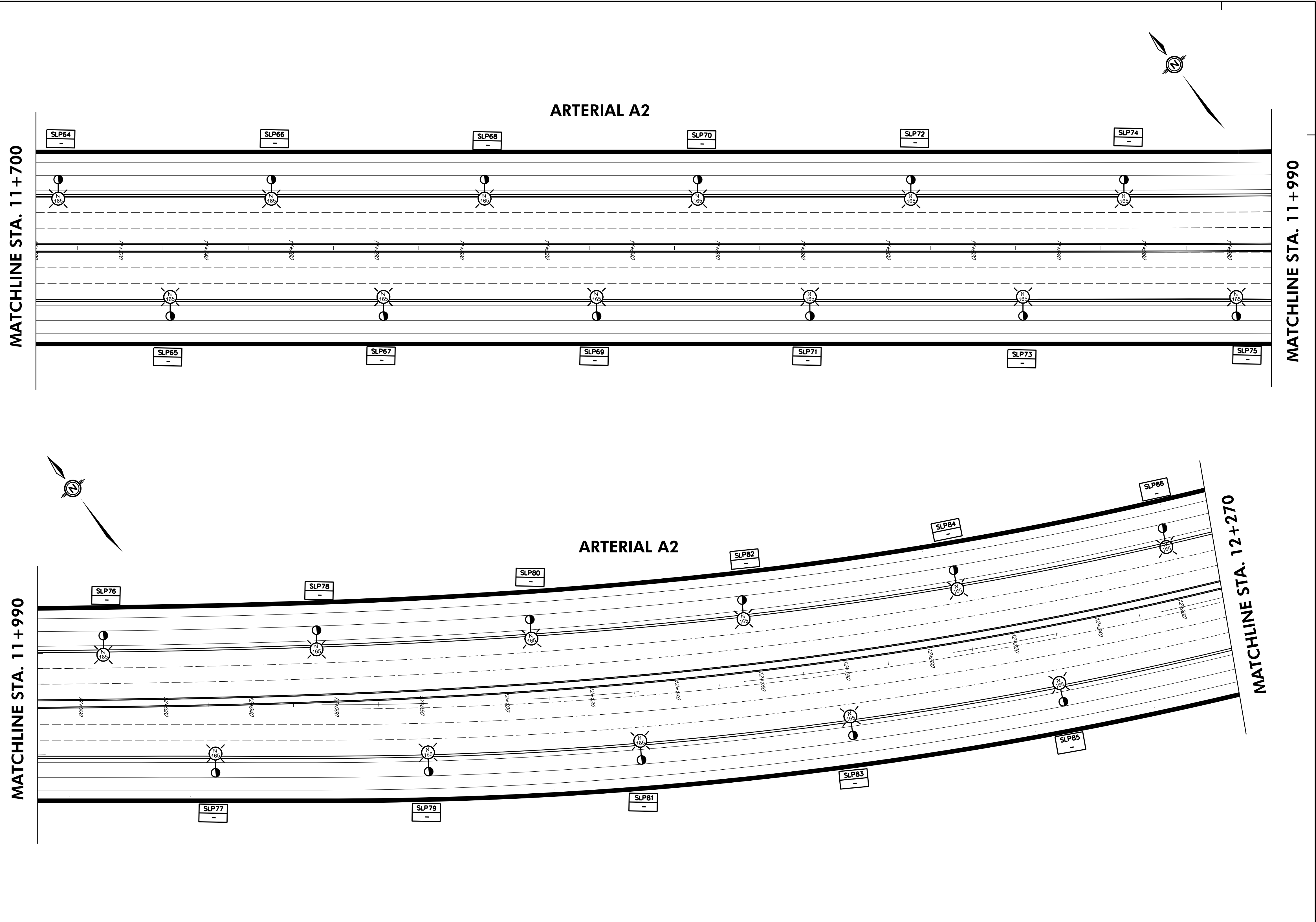
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NOTES

- POLE AND LUMINAIRE TO BE INSTALLED AS PART OF THE TRAFFIC SIGNAL INSTALLATION. SHOWN FOR REFERENCE ONLY.



STREET LIGHT POLE DETAILS

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE TYPE / MATERIAL HEIGHT	ARM & HEAD BRACKET WATTAGE	GROUND ROD	IN-POLE BREAKER	I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE TYPE / MATERIAL HEIGHT	ARM & HEAD BRACKET WATTAGE	GROUND ROD	IN-POLE BREAKER

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SCALE: 1 : 500 DESIGNED BY: M.M. CHECKED BY: M.M.

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Moon-Matz Ltd.
Consulting Engineers

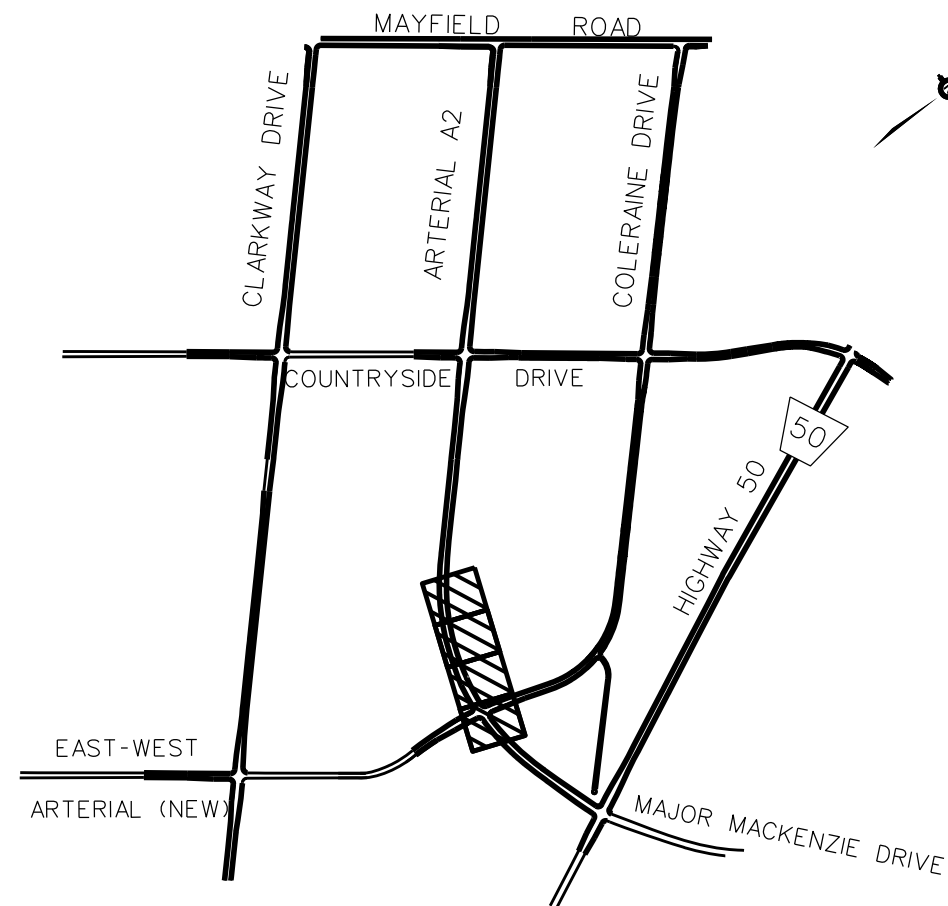
BRAMPTON Flower City Planning and Infrastructure Services
Public Works

ARTERIAL A2
COUNTRYSIDE DRIVE TO COLERAIN DRIVE
PROPOSED STREET LIGHTING - LAYOUT IV

DWG. NO.: N1-10SL-XX SHT NO.: SL-5

N1-10SL-XX

KEY MAP



STREETLIGHT SYMBOLS LEGEND

POLES AND ELECTRICAL CHAMBERS

- EXISTING CONCRETE POLE
- NEW CONCRETE POLE
- TEMPORARY WOOD POLE
- EXISTING WOOD POLE
- EXISTING CIRCULAR SPUN ALUMINUM POLE
- NEW CIRCULAR SPUN ALUMINUM POLE
- EXISTING STEEL POLE
- EXISTING HANDWELL (300mm)
- NEW HANDWELL (300mm)
- EXISTING JUNCTION BOX (450mm)
- NEW JUNCTION BOX (450mm)
- EXISTING MANHOLE (600mm x 600mm)

POLE EQUIPMENT AND CONNECTIONS

- EXISTING LUMINAIRE ON BRACKET
- NEW LUMINAIRE ON BRACKET
- INDICATES REMOVAL
- INDICATES ABANDON
- IN-LINE FUSE
- GROUND PLATE
- BACKGUY
- STREET LIGHT IDENTIFICATION TAG

POWER CONNECTIONS

- HYDRO ONE BRAMPTON TRANSFORMER WITH IDENTIFICATION NUMBER
- EXISTING POLE-MOUNT TRANSFORMER
- PROPOSED POLE-MOUNT TRANSFORMER
- HYDRO-OWNED JUNCTION BOX
- POLE-MOUNT DISCONNECT WITH STREET LIGHT IDENTIFICATION NUMBER
- POWER PEDESTAL WITH STREET LIGHT IDENTIFICATION NUMBER
- 50A IN-POLE BREAKER
- DOUBLE 50A IN-POLE BREAKER

DUCTS

- EXISTING 50mm RIGID PVC DUCT
- NEW 50mm RIGID PVC DUCT
- EXISTING 100mm RIGID PVC DUCT
- NEW 100mm RIGID PVC DUCT
- EXISTING O/H SIL CABLE
- NEW O/H SIL CABLE

WIRING

- EX SL - EXISTING SIL CABLE
- HCU - HYDRO CABLE UNDERGROUND
- HCA - HYDRO CABLE AERIAL
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				TOS-30 MATERIAL					
				TRS-35 TAPERED					

SCHEDULE OF APPROVALS

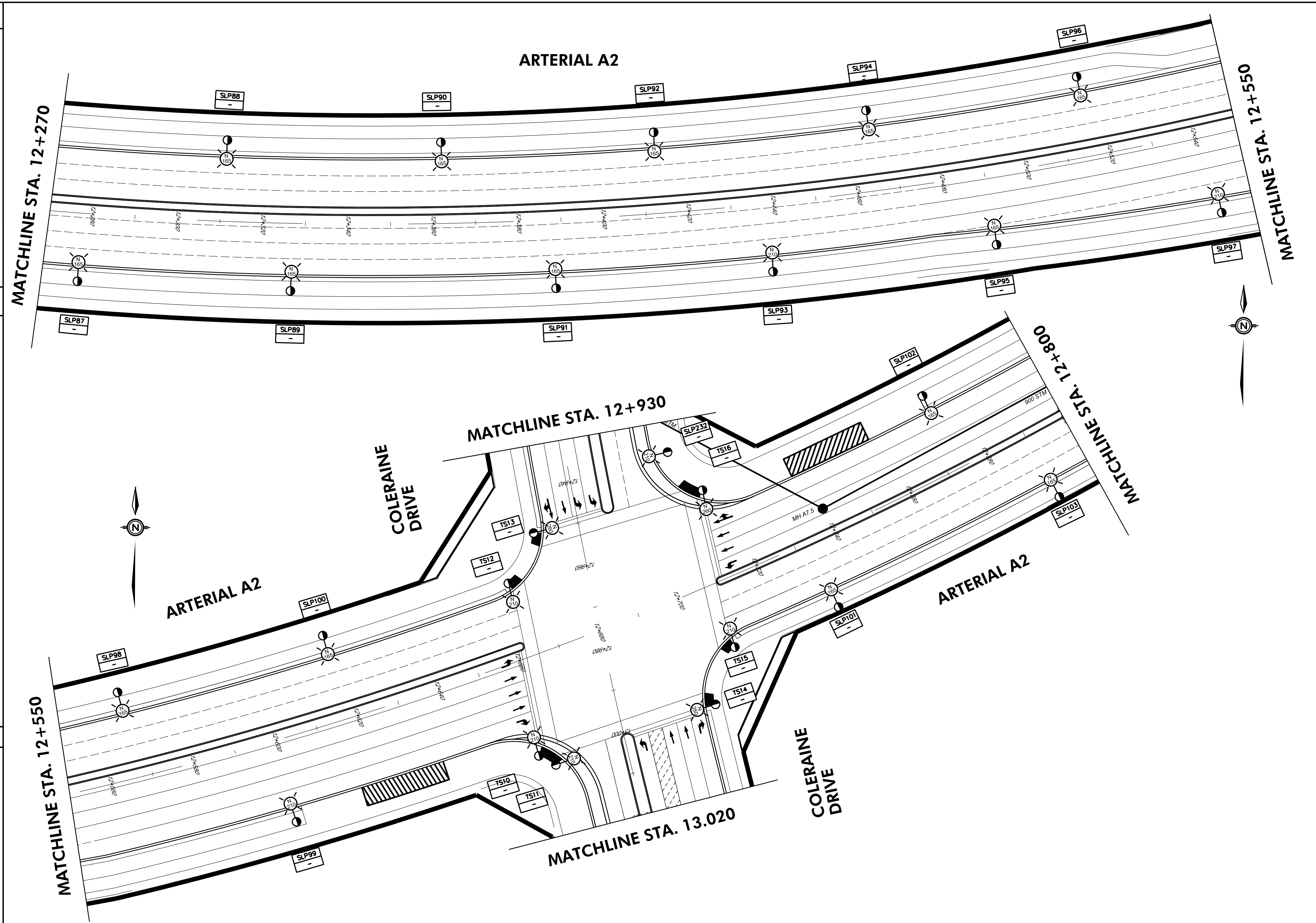
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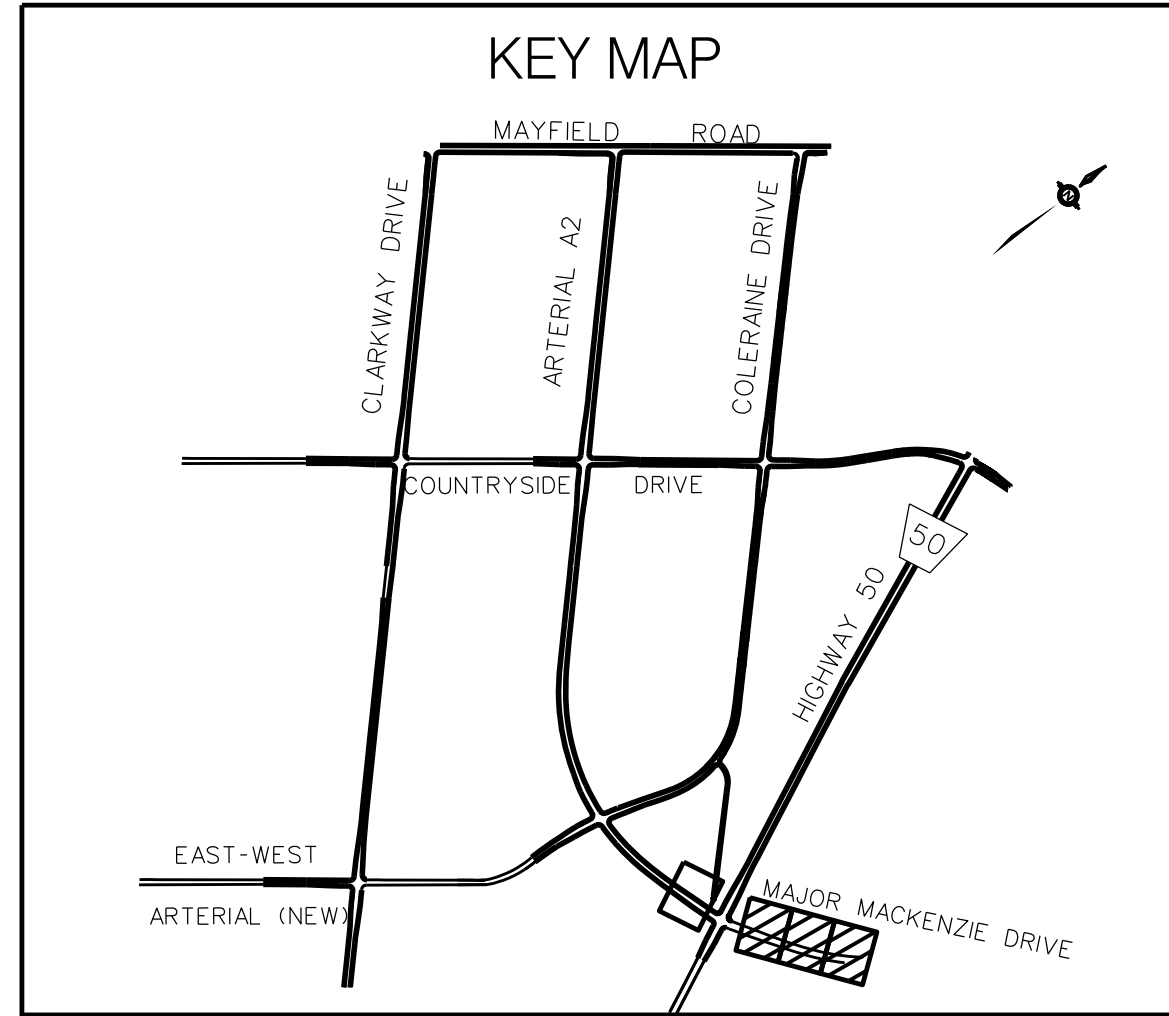
SCALE: 1 : 500
 DESIGNED BY: M.M.
 CHECKED BY: M.M.
 DATE: July 16, 2021
 APPROVAL:
 CONTRACT NO: 2013-012
 APPROVAL DATE:



ARTERIAL A2
 COUNTRYSIDE DRIVE TO COLERAINE DRIVE
 PROPOSED STREET LIGHTING - LAYOUT V

DWG. NO.: N1-10SL-XX SHT NO.: SL-6





STREETLIGHT SYMBOLS LEGEND

POLES AND ELECTRICAL CHAMBERS

- Existing Concrete Pole
- New Concrete Pole
- Temporary Wood Pole (300mm)
- Existing Wood Pole
- Existing Circular Spun Aluminum Pole
- New Circular Spun Aluminum Pole
- Existing Steel Pole
- Existing Handwell (300mm)
- New Handwell (300mm)
- Existing Junction Box (450mm)
- New Junction Box (450mm)
- Existing Manhole (600mm x 600mm)

POLE EQUIPMENT AND CONNECTIONS

- Existing Luminaire on Bracket
- New Luminaire on Bracket
- Indicates Removal
- Indicates Abandon
- In-Line Fuse
- Ground Plate
- Backguy
- Street Light Identification Tag (Type, Pole #)

POWER CONNECTIONS

- Hydro One Brampton Transformer with Identification Number
- Existing Pole-Mount Transformer
- Proposed Pole-Mount Transformer
- Hydro-Owned Junction Box
- Pole-Mount Disconnect with Street Light Identification Number
- Power Pedestal with Street Light Identification Number
- 50A In-Pole Breaker
- Double 50A In-Pole Breaker

DUCTS

- Existing 50mm Rigid PVC Duct
- New 50mm Rigid PVC Duct
- Existing 100mm Rigid PVC Duct
- New 100mm Rigid PVC Duct
- Existing OH SIL Cable
- New OH SIL Cable

WIRING

- EX SL - Existing SIL Cable
- HCU - Hydro Cable Underground
- HCA - Hydro Cable Aerial
- Denotes Junction Box or Handwell on Wiring Diagram

GENERAL NOTES

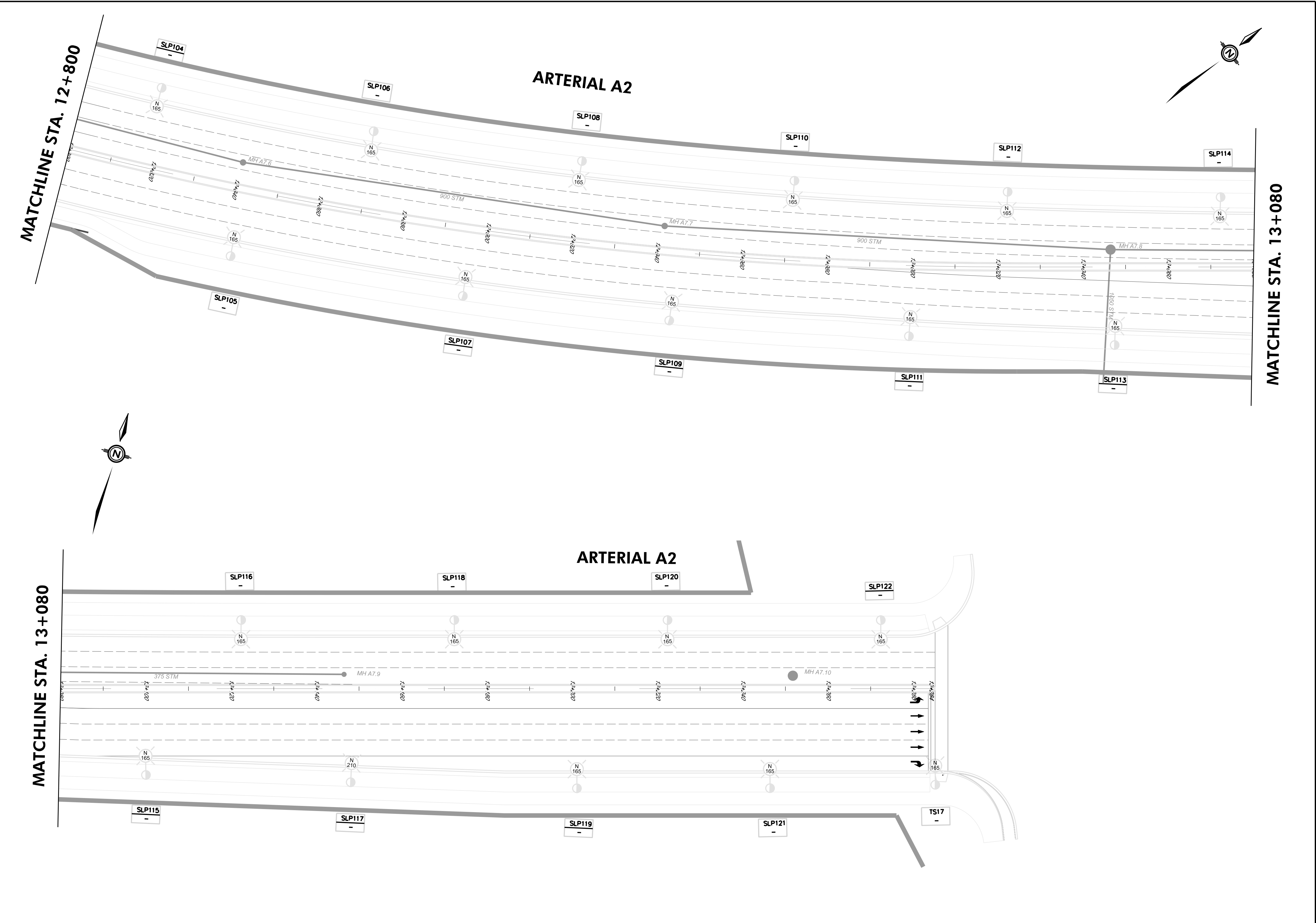
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3	JUNE 29/22	VS	RE-ISSUED FOR FINAL PRELIMINARY	MM

SCALE: 1 : 500 DESIGNED BY: M.M. CHECKED BY: M.M.

DATE: July 16, 2021 APPROVAL: _____

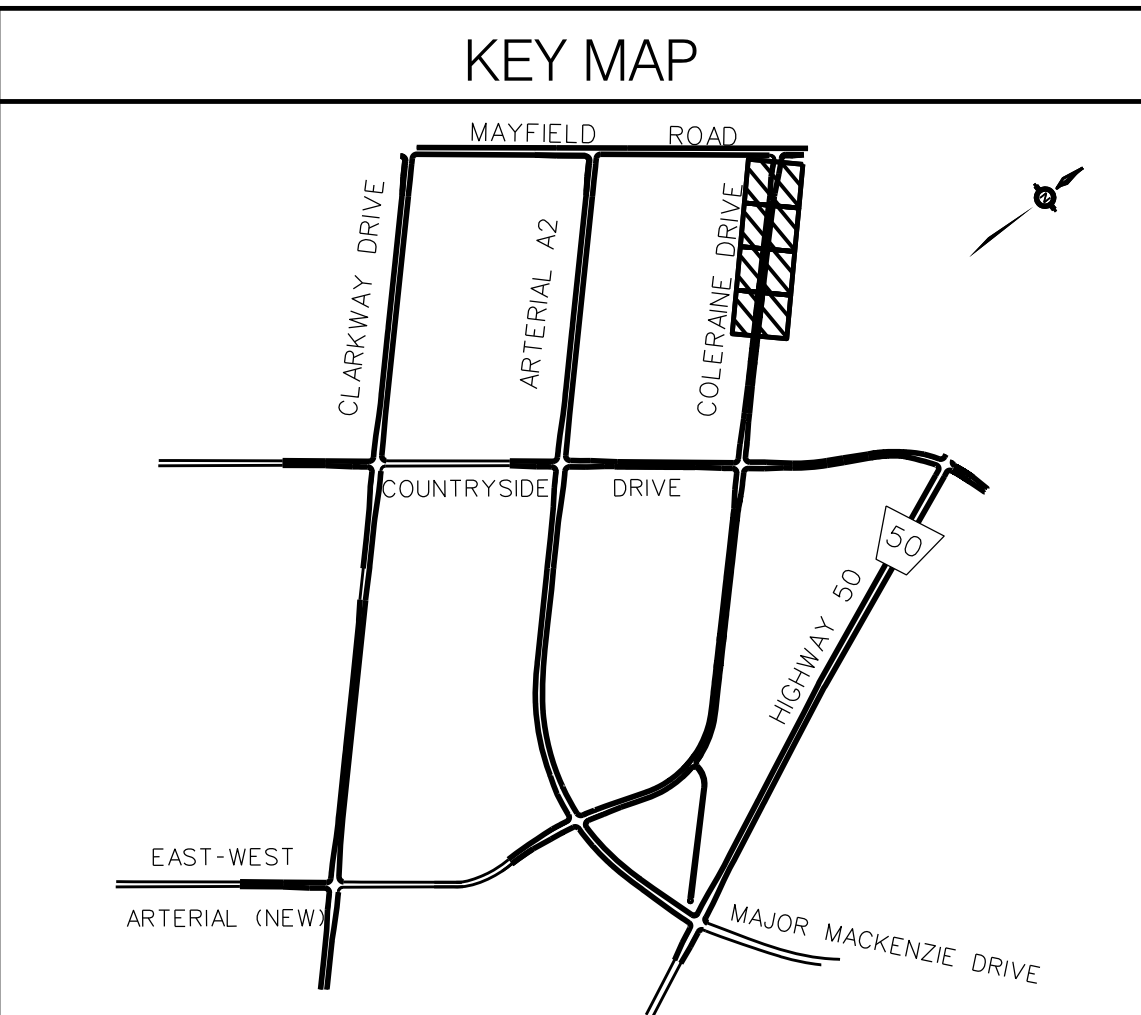
CONTRACT NO: 2013-012 APPROVAL DATE: _____



ARTERIAL A2
 COLERAINE DRIVE TO HIGHWAY 50
 PROPOSED STREET LIGHTING - LAYOUT VI

DWG. NO.: N1-10SL-XX SHT NO.: SL-7

N1-10SL-XX



STREETLIGHT SYMBOLS LEGEND

POLES AND ELECTRICAL CHAMBERS

- EXISTING CONCRETE POLE
- NEW CONCRETE POLE
- TEMPORARY WOOD POLE
- EXISTING WOOD POLE
- EXISTING CIRCULAR SPUN ALUMINUM POLE
- NEW CIRCULAR SPUN ALUMINUM POLE
- EXISTING STEEL POLE
- EXISTING HANDWELL (300mm)
- NEW HANDWELL (300mm)
- EXISTING JUNCTION BOX (450mm)
- NEW JUNCTION BOX (450mm)
- EXISTING MANHOLE (600mm x 600mm)

POLE EQUIPMENT AND CONNECTIONS

- EXISTING LUMINAIRE ON BRACKET
- NEW LUMINAIRE ON BRACKET
- INDICATES REMOVAL
- INDICATES ABANDON
- IN-LINE FUSE
- GROUND PLATE
- BACKGUY
- STREET LIGHT IDENTIFICATION TAG

POWER CONNECTIONS

- HYDRO ONE BRAMPTON TRANSFORMER WITH IDENTIFICATION NUMBER
- EXISTING POLE-MOUNT TRANSFORMER
- PROPOSED POLE-MOUNT TRANSFORMER
- HYDRO-OWNED JUNCTION BOX
- POLE-MOUNT DISCONNECT WITH STREET LIGHT IDENTIFICATION NUMBER
- POWER PEDESTAL WITH STREET LIGHT IDENTIFICATION NUMBER
- 50A IN-POLE BREAKER
- DOUBLE 50A IN-POLE BREAKER

DUCTS

- EXISTING 50mm RIGID PVC DUCT
- NEW 50mm RIGID PVC DUCT
- EXISTING 100mm RIGID PVC DUCT
- NEW 100mm RIGID PVC DUCT
- EXISTING O/H SIL CABLE
- NEW O/H SIL CABLE

WIRING

- EX SL - EXISTING SIL CABLE
- HCU - HYDRO CABLE UNDERGROUND
- HCA - HYDRO CABLE AERIAL
- DENOTES JUNCTION BOX OR HANDWELL ON WIRING DIAGRAM

GENERAL NOTES

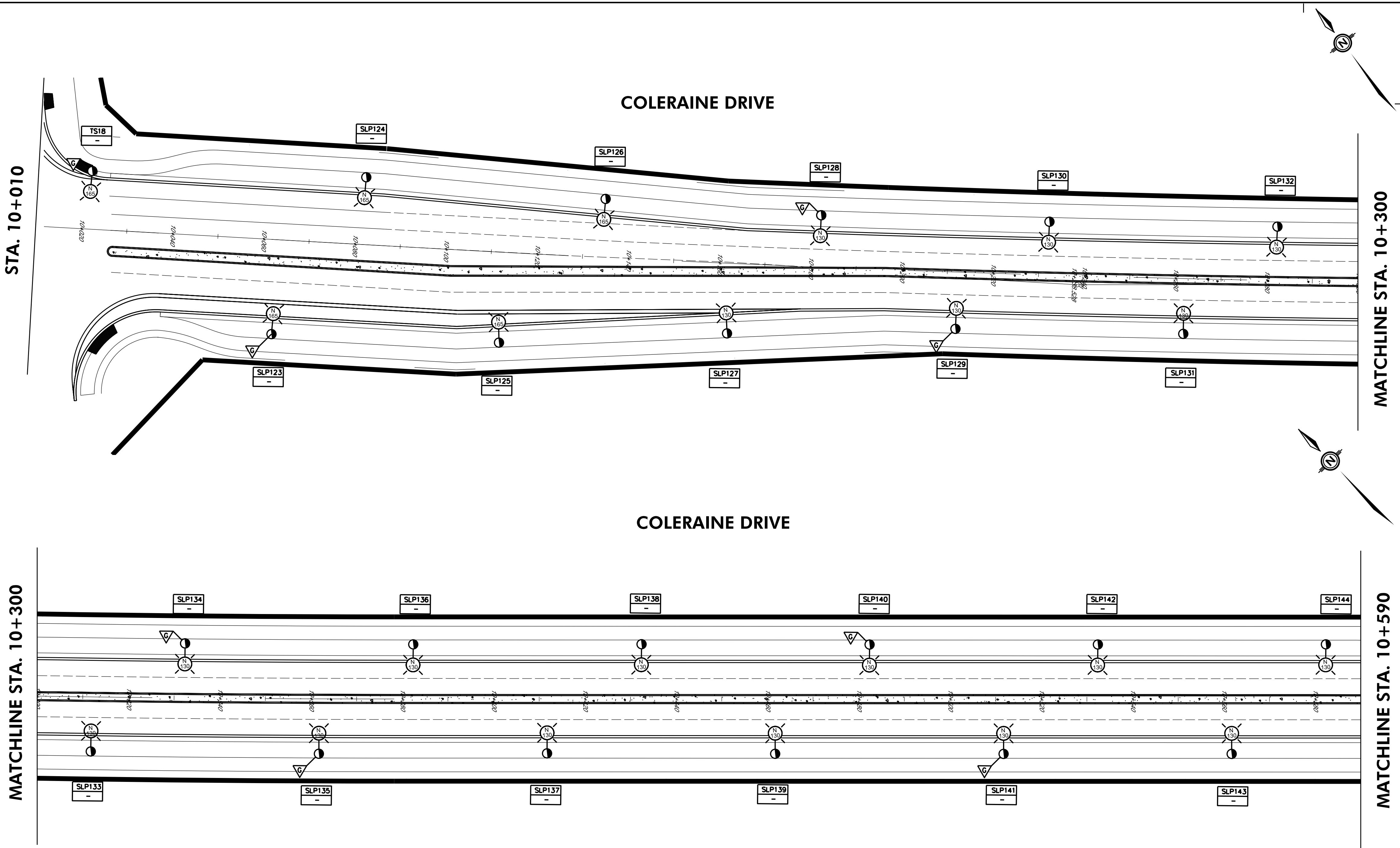
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ALL WORK TO BE COORDINATED WITH CITY OF BRAMPTON REPRESENTATIVE.

NOTES

- POLE AND LUMINAIRE TO BE INSTALLED AS PART OF THE TRAFFIC SIGNAL INSTALLATION. SHOWN FOR REFERENCE ONLY.



STREET LIGHT POLE DETAILS

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE TYPE / MATERIAL	HEIGHT	ARM & HEAD BRACKET	WATTAGE	GROUND ROD	IN-POLE BREAKER

SCHEDULE OF APPROVALS

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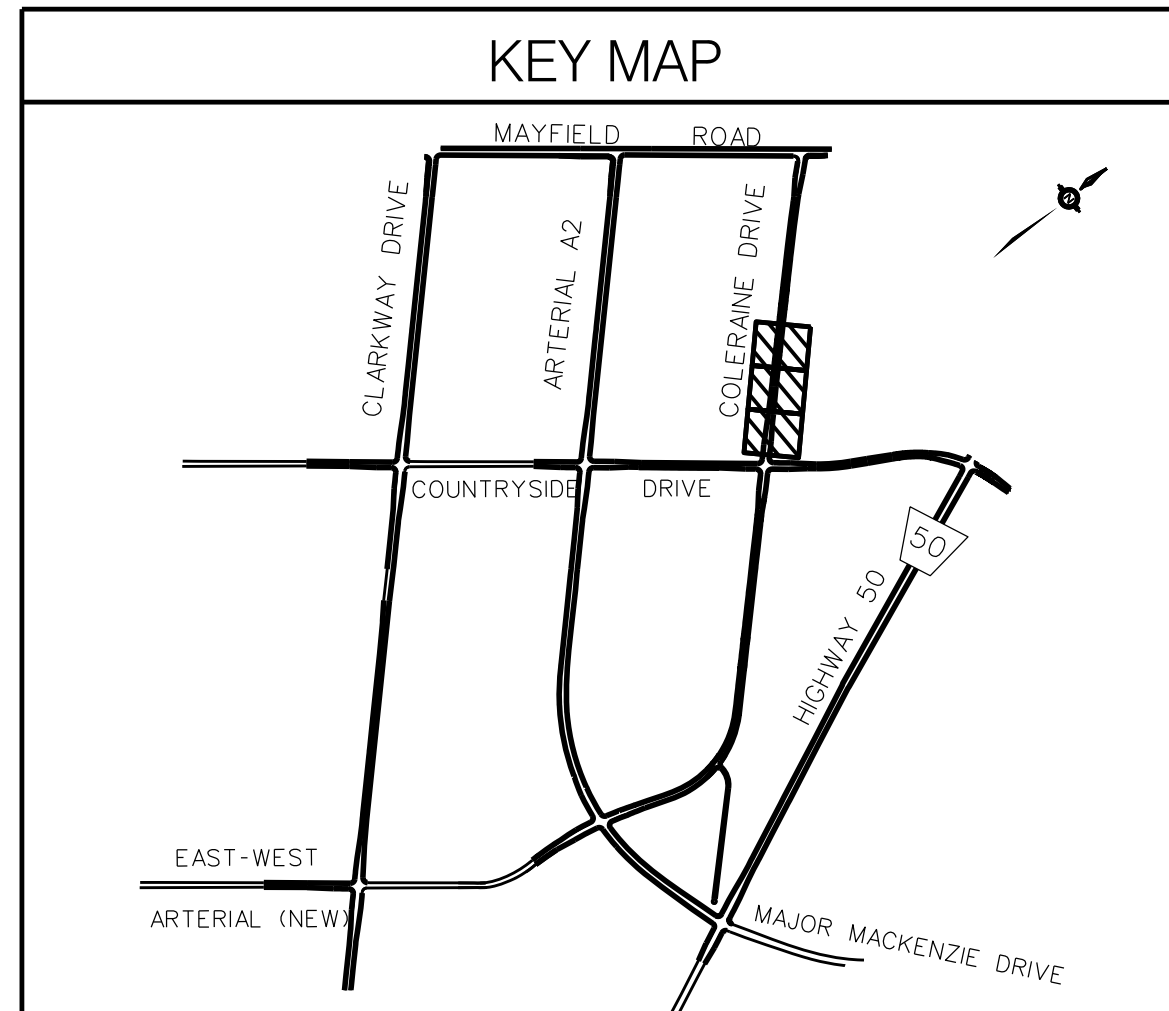
Moon-Matz Ltd.
Consulting Engineers

BRAMPTON Flower City Planning and Infrastructure Services
Public Works

COLERAINE DRIVE
MAYFIELD ROAD TO COUNTRYSIDE DRIVE
PROPOSED STREET LIGHTING - LAYOUT VII

DWG. NO.: N1-10SL-XX SHT NO.: SL-8

N1-10SL-XX



STREETLIGHT SYMBOLS LEGEND

POLES AND ELECTRICAL CHAMBERS

⊗ EXISTING CONCRETE POLE	● EXISTING STEEL POLE
○ NEW CONCRETE POLE	⊗ EXISTING HANDWELL (300mm)
⊙ TEMPORARY WOOD POLE	⊗ NEW HANDWELL (300mm)
● EXISTING WOOD POLE	⊗ EXISTING JUNCTION BOX (450mm)
⊙ EXISTING CIRCULAR SPUN ALUMINUM POLE	⊗ NEW JUNCTION BOX (450mm)
● NEW CIRCULAR SPUN ALUMINUM POLE	⊗ EXISTING MANHOLE (600mm x 600mm)

POLE EQUIPMENT AND CONNECTIONS

☀ EXISTING LUMINAIRE ON BRACKET	⌚ IN-LINE FUSE
☀ NEW LUMINAIRE ON BRACKET	⬆ GROUND PLATE
✕ INDICATES REMOVAL	✕ INDICATES ABANDON
⊗ [TYPE] [POLE #]	⊗ [TYPE] [POLE #]
⊗ [TYPE] [POLE #]	⊗ [TYPE] [POLE #]

POWER CONNECTIONS

HC Txxxx HYDRO ONE BRAMPTON TRANSFORMER WITH IDENTIFICATION NUMBER	PS SLxxxx POLE-MOUNT DISCONNECT WITH STREET LIGHT IDENTIFICATION NUMBER
△ EXISTING POLE-MOUNT TRANSFORMER	⊗ SLxxxx POWER PEDESTAL WITH STREET LIGHT IDENTIFICATION NUMBER
▲ PROPOSED POLE-MOUNT TRANSFORMER	⊗ SLxxxx 50A IN-POLE BREAKER
J HYDRO-OWNED JUNCTION BOX	⊗ SLxxxx DOUBLE 50A IN-POLE BREAKER

DUCTS

--- EXISTING 50mm RIGID PVC DUCT	--- NEW 100mm RIGID PVC DUCT
--- NEW 50mm RIGID PVC DUCT	--- EXISTING OH SIL CABLE
--- EXISTING 100mm RIGID PVC DUCT	--- NEW OH SIL CABLE

WIRING

--- EX SL --- EXISTING SIL CABLE	□ DENOTES JUNCTION BOX OR HANDWELL ON WIRING DIAGRAM
--- HCU --- HYDRO CABLE UNDERGROUND	
--- HCA --- HYDRO CABLE AERIAL	

GENERAL NOTES

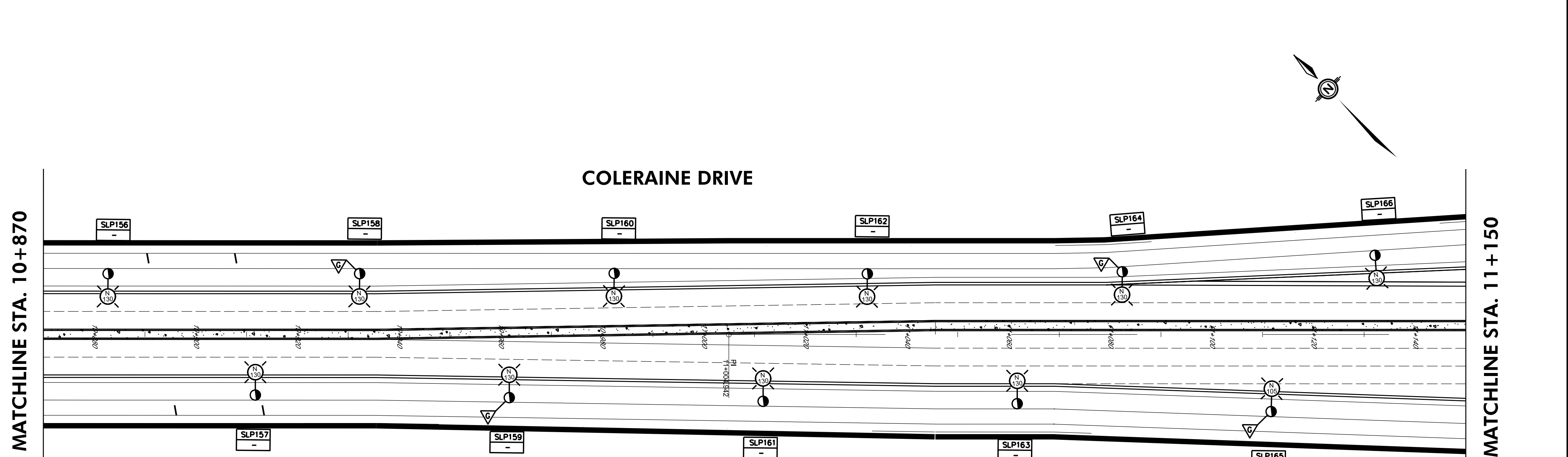
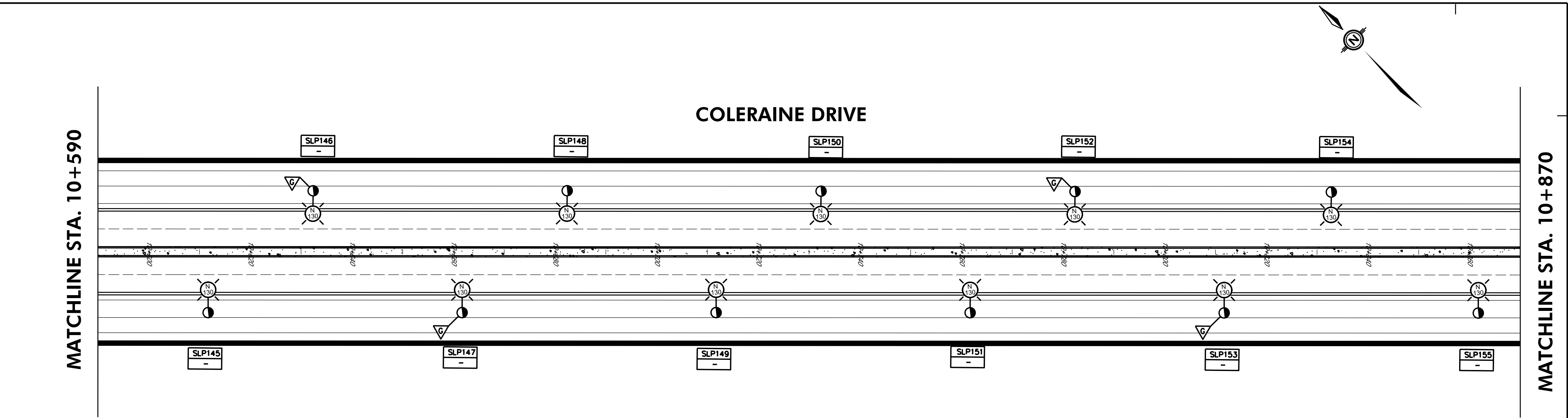
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NOTES

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STREET LIGHT POLE DETAILS

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE TYPE / MATERIAL	HEIGHT	ARM & HEAD BRACKET	WATTAGE	GROUND ROD	IN-POLE BREAKER

SCHEDULE OF APPROVALS

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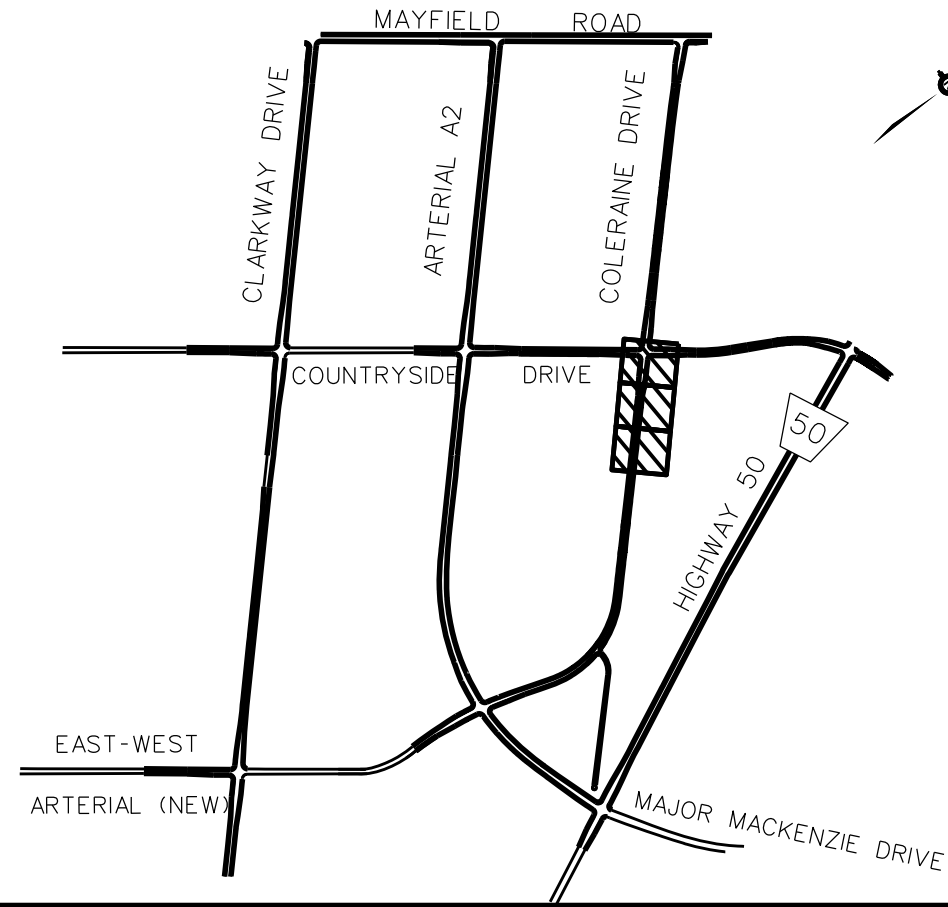
Moon-Matz Ltd. Consulting Engineers

BRAMPTON Planning and Infrastructure Services Public Works

COLERAINE DRIVE
MAYFIELD ROAD TO COUNTRYSIDE DRIVE
PROPOSED STREET LIGHTING - LAYOUT VIII

DWG. NO.: N1-10SL-XX SHT NO.: SL-9

KEY MAP



STREETLIGHT SYMBOLS LEGEND

- POLES AND ELECTRICAL CHAMBERS**
- EXISTING CONCRETE POLE
 - NEW CONCRETE POLE
 - TEMPORARY WOOD POLE
 - EXISTING WOOD POLE
 - EXISTING CIRCULAR SPUN ALUMINUM POLE
 - NEW CIRCULAR SPUN ALUMINUM POLE
 - EXISTING STEEL POLE
 - EXISTING HANDWELL (300mm)
 - NEW HANDWELL (300mm)
 - EXISTING JUNCTION BOX (450mm)
 - NEW JUNCTION BOX (450mm)
 - EXISTING MANHOLE (600mm x 600mm)

- POLE EQUIPMENT AND CONNECTIONS**
- EXISTING LUMINAIRE ON BRACKET
 - NEW LUMINAIRE ON BRACKET
 - INDICATES REMOVAL
 - INDICATES ABANDON
 - IN-LINE FUSE
 - GROUND PLATE
 - BACKGUY
 - STREET LIGHT IDENTIFICATION TAG

- POWER CONNECTIONS**
- HYDRO ONE BRAMPTON TRANSFORMER WITH IDENTIFICATION NUMBER
 - EXISTING POLE-MOUNT TRANSFORMER
 - PROPOSED POLE-MOUNT TRANSFORMER
 - HYDRO-OWNED JUNCTION BOX
 - POLE-MOUNT DISCONNECT WITH STREET LIGHT IDENTIFICATION NUMBER
 - POWER PEDESTAL WITH STREET LIGHT IDENTIFICATION NUMBER
 - 50A IN-POLE BREAKER
 - DOUBLE 50A IN-POLE BREAKER

- DUCTS**
- EXISTING 50mm RIGID PVC DUCT
 - NEW 50mm RIGID PVC DUCT
 - EXISTING 100mm RIGID PVC DUCT
 - NEW 100mm RIGID PVC DUCT
 - EXISTING O/H SIL CABLE
 - NEW O/H SIL CABLE

- WIRING**
- EX SL - EXISTING SIL CABLE
 - HCU - HYDRO CABLE UNDERGROUND
 - HCA - HYDRO CABLE AERIAL
 - DENOTES JUNCTION BOX OR HANDWELL ON WIRING DIAGRAM

GENERAL NOTES

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STREET LIGHT POLE DETAILS

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE TYPE / MATERIAL	HEIGHT	ARM & HEAD BRACKET	WATTAGE	GROUND ROD	IN-POLE BREAKER

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE TYPE / MATERIAL	HEIGHT	ARM & HEAD BRACKET	WATTAGE	GROUND ROD	IN-POLE BREAKER

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COLERAINE DRIVE
COUNTRYSIDE DRIVE TO ARTERIAL A2
PROPOSED STREET LIGHTING - LAYOUT IX

MATCHLINE STA. 11+150

MATCHLINE STA. 11+440

COUNTRYSIDE DRIVE

MATCHLINE STA. 12+100

MATCHLINE STA. 12+020

COLERAINE DRIVE

COLERAINE DRIVE

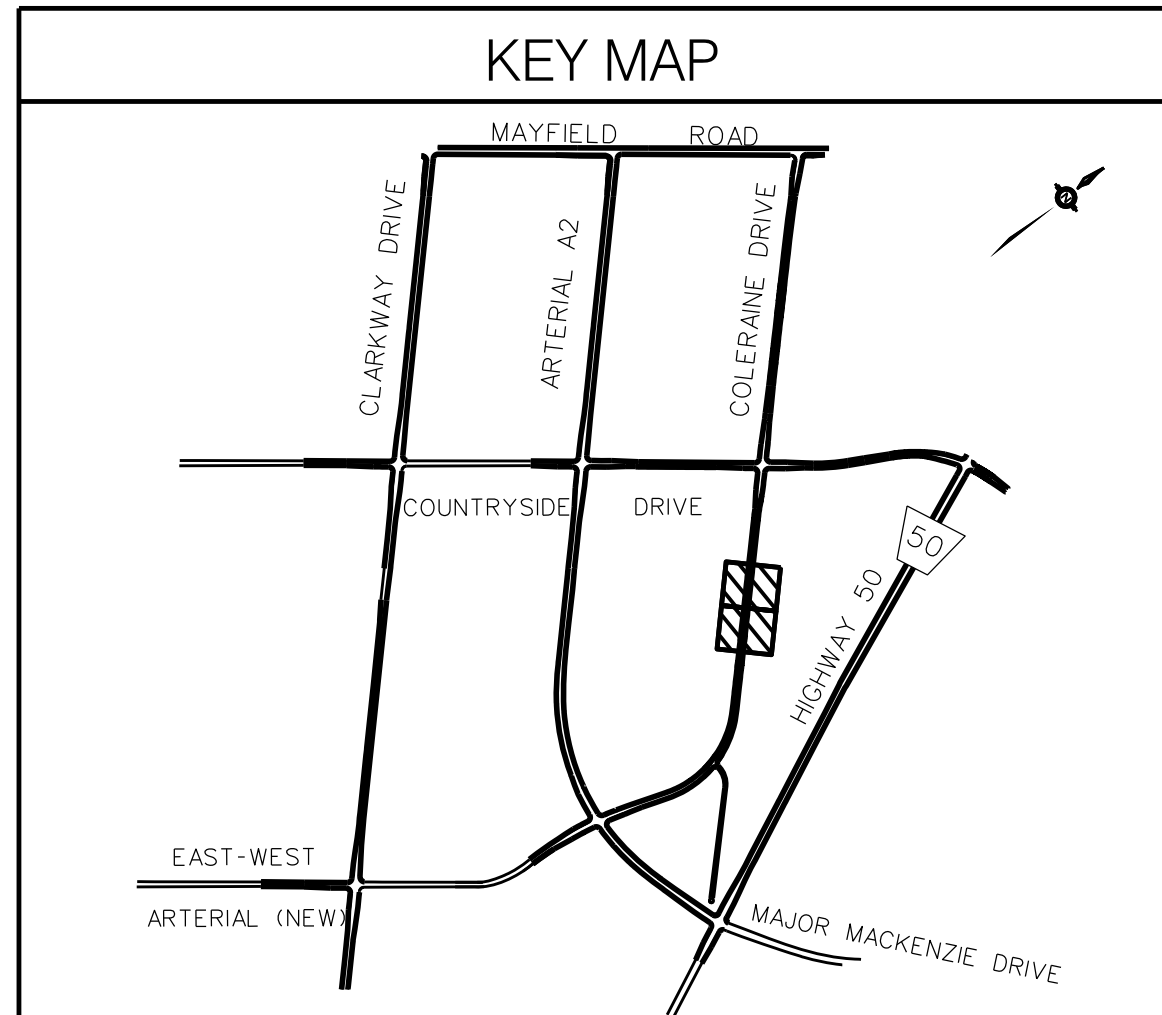
COUNTRYSIDE DRIVE

COLERAINE DRIVE

MATCHLINE STA. 11+440

MATCHLINE STA. 11+730

N1-10SL-XX



STREETLIGHT SYMBOLS LEGEND

POLES AND ELECTRICAL CHAMBERS			
⊗	EXISTING CONCRETE POLE	●	EXISTING STEEL POLE
○	NEW CONCRETE POLE	⊙	EXISTING HANDWELL (300mm)
⊙	TEMPORARY WOOD POLE	⊗	NEW HANDWELL (300mm)
⊙	EXISTING WOOD POLE	⊙	EXISTING JUNCTION BOX (450mm)
⊙	EXISTING CIRCULAR SPUN ALUMINUM POLE	⊙	NEW JUNCTION BOX (450mm)
⊙	NEW CIRCULAR SPUN ALUMINUM POLE	⊙	EXISTING MANHOLE (600mm x 600mm)
POLE EQUIPMENT AND CONNECTIONS			
⊙	EXISTING LUMINAIRE ON BRACKET	⊙	IN-LINE FUSE
⊙	NEW LUMINAIRE ON BRACKET	⊙	GROUND PLATE
✗	INDICATES REMOVAL	⊙	BACKGUY
✗	INDICATES ABANDON	⊙	STREET LIGHT IDENTIFICATION TAG [TYPE]xx [POLE #]
POWER CONNECTIONS			
HC Txxxx	HYDRO ONE BRAMPTON TRANSFORMER WITH IDENTIFICATION NUMBER	PS SLxxxx	POLE-MOUNT DISCONNECT WITH STREET LIGHT IDENTIFICATION NUMBER
△	EXISTING POLE-MOUNT TRANSFORMER	SLxxxx	POWER PEDESTAL WITH STREET LIGHT IDENTIFICATION NUMBER
▲	PROPOSED POLE-MOUNT TRANSFORMER	50A SLxxxx	50A IN-POLE BREAKER
J	HYDRO-OWNED JUNCTION BOX	2P-50A SLxxxx	DOUBLE 50A IN-POLE BREAKER
DUCTS			
---	EXISTING 50mm RIGID PVC DUCT	---	NEW 100mm RIGID PVC DUCT
---	NEW 50mm RIGID PVC DUCT	---	EXISTING O/H SIL CABLE
---	EXISTING 100mm RIGID PVC DUCT	---	NEW O/H SIL CABLE
WIRING			
---	EX SL — EXISTING SIL CABLE	---	DENOTES JUNCTION BOX OR HANDWELL ON WIRING DIAGRAM
---	HCU — HYDRO CABLE UNDERGROUND		
---	HCA — HYDRO CABLE AERIAL		

GENERAL NOTES

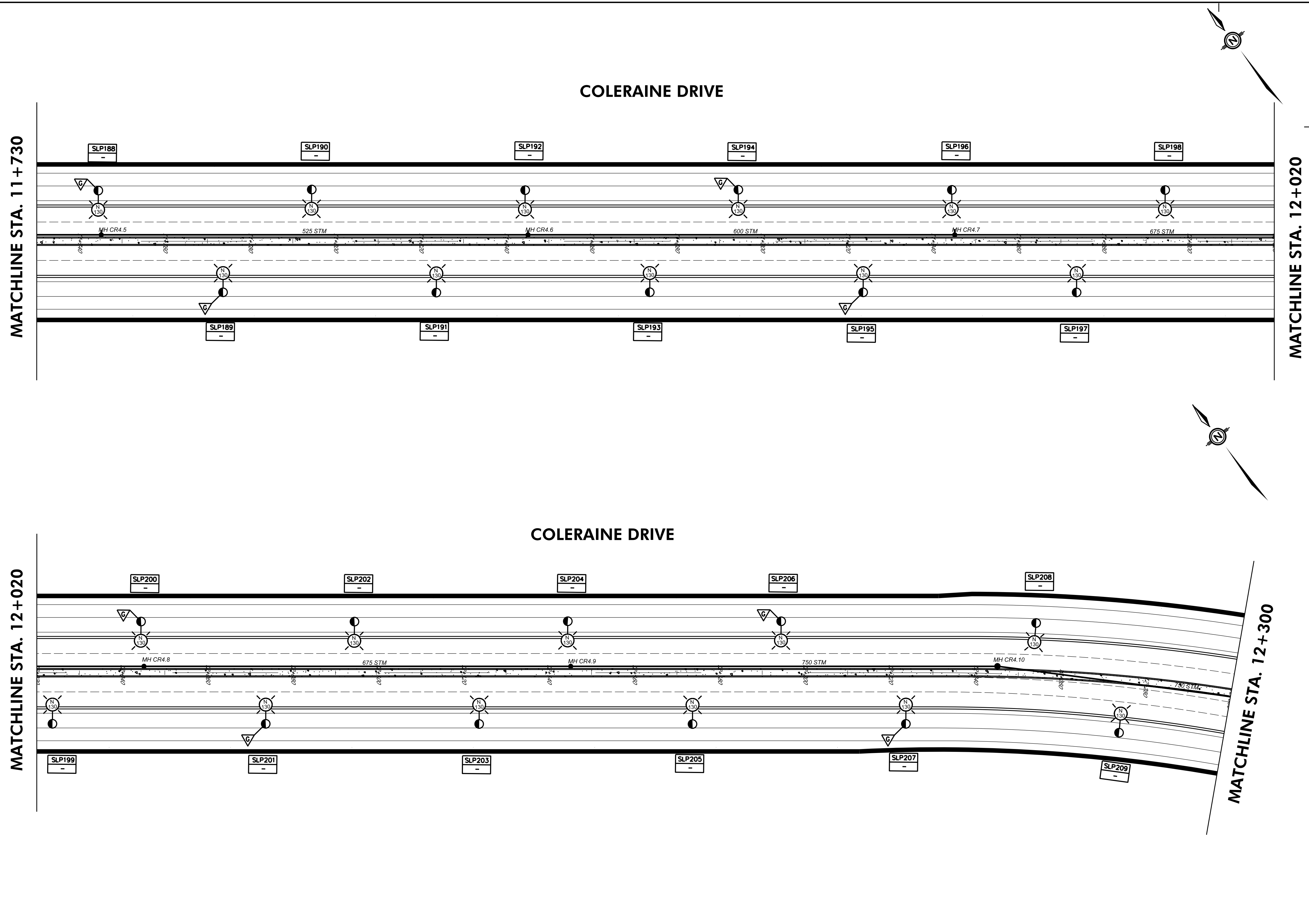
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NOTES

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STREET LIGHT POLE DETAILS

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE TYPE / MATERIAL	HEIGHT	ARM & HEAD BRACKET	WATTAGE	GROUND ROD	IN-POLE BREAKER


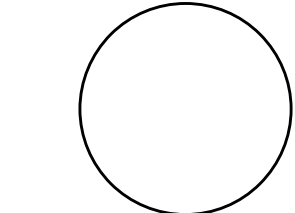
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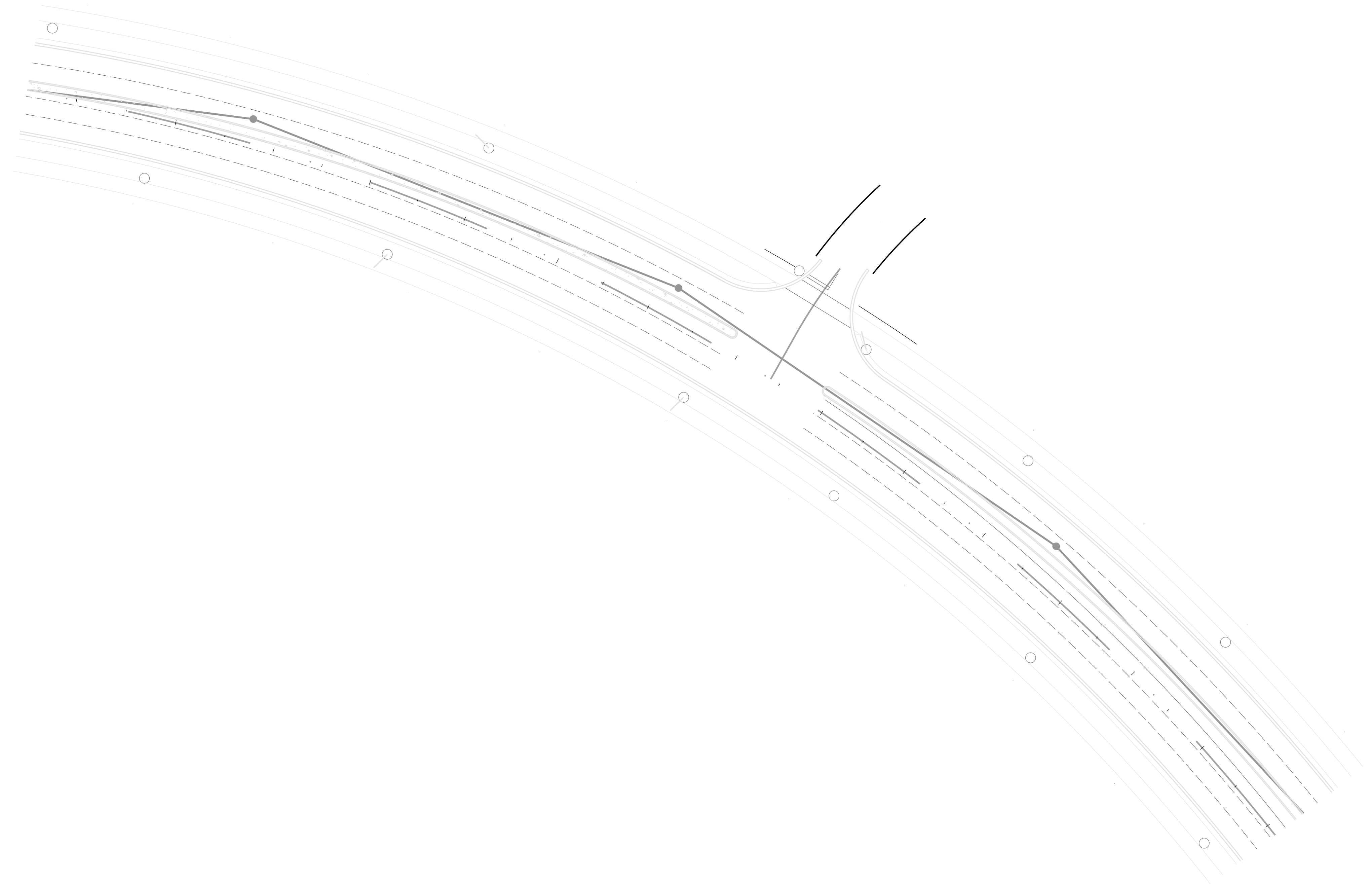





Planning and Infrastructure Services
Public Works

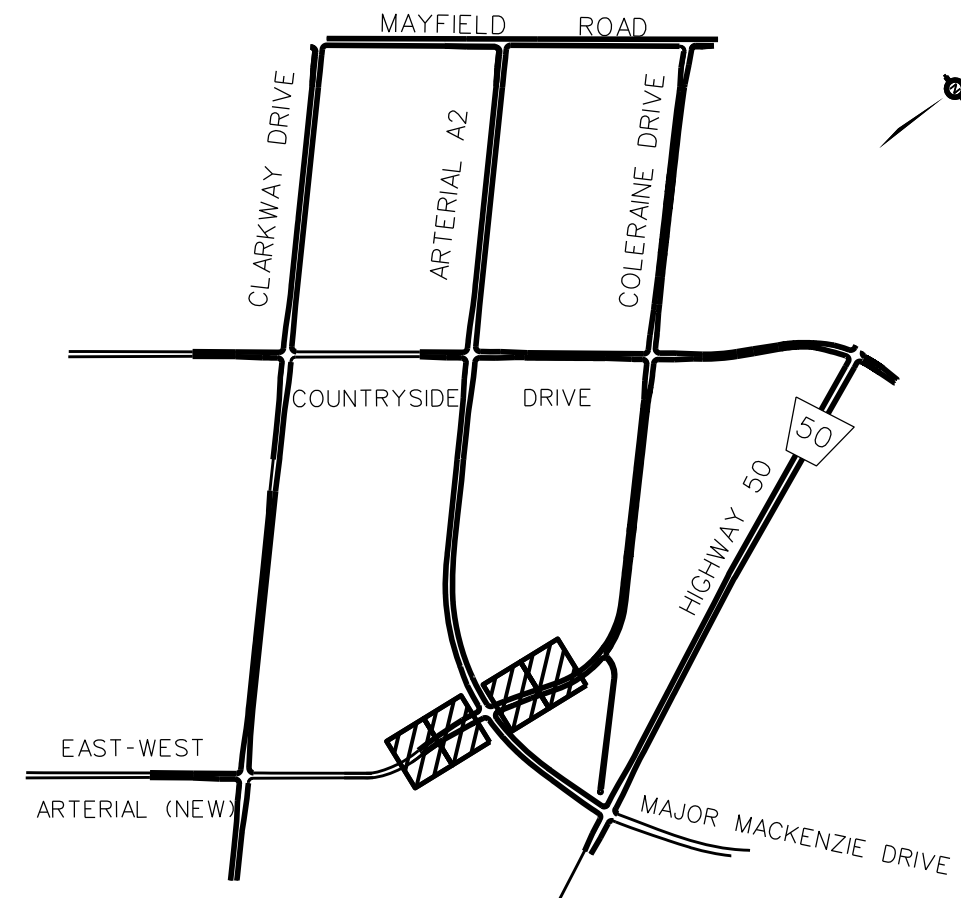
COUNTRYSIDE DRIVE
CLARKWAYS DRIVE TO ARTERIAL A2
PROPOSED STREET LIGHTING - LAYOUT X

DWG. NO.: N1-10SL-XX SHT NO.: SL-11



N1-10SL-XX

KEY MAP



STREETLIGHT SYMBOLS LEGEND

POLES AND ELECTRICAL CHAMBERS

- | | | | |
|---|--------------------------------------|---|----------------------------------|
| ⊗ | EXISTING CONCRETE POLE | ● | EXISTING STEEL POLE |
| ○ | NEW CONCRETE POLE | ⊙ | EXISTING HANDWELL (300mm) |
| ⊖ | TEMPORARY WOOD POLE | ⊗ | NEW HANDWELL (300mm) |
| ⊙ | EXISTING WOOD POLE | ⊙ | EXISTING JUNCTION BOX (450mm) |
| ⊖ | EXISTING CIRCULAR SPUN ALUMINUM POLE | ⊙ | NEW JUNCTION BOX (450mm) |
| ● | NEW CIRCULAR SPUN ALUMINUM POLE | ● | EXISTING MANHOLE (600mm x 600mm) |

POLE EQUIPMENT AND CONNECTIONS

- | | | | |
|-----------------|--|---|-------------------|
| ☀ | EXISTING LUMINAIRE ON BRACKET | ⋈ | IN-LINE FUSE |
| ☀ | NEW LUMINAIRE ON BRACKET | ⏚ | GROUND PLATE |
| ⋈ | INDICATES REMOVAL | ⋈ | INDICATES ABANDON |
| [TYPE] [POLE #] | STREET LIGHT IDENTIFICATION TAG | | |
| | ([TYPE]: ELP = Existing; SLP = New; R = Removal) | | |

POWER CONNECTIONS

- | | | | |
|----------|---|---------------|---|
| HC Txxxx | HYDRO ONE BRAMPTON TRANSFORMER WITH IDENTIFICATION NUMBER | PS SLxxxx | POLE-MOUNT DISCONNECT WITH STREET LIGHT IDENTIFICATION NUMBER |
| △ | EXISTING POLE-MOUNT TRANSFORMER | SLxxxx | POWER PEDESTAL WITH STREET LIGHT IDENTIFICATION NUMBER |
| ▲ | PROPOSED POLE-MOUNT TRANSFORMER | 50A SLxxxx | 50A IN-POLE BREAKER |
| J | HYDRO-OWNED JUNCTION BOX | 2P-50A SLxxxx | DOUBLE 50A IN-POLE BREAKER |

DUCTS

- | | | | |
|---------|-------------------------------|---------|--------------------------|
| - - - - | EXISTING 50mm RIGID PVC DUCT | - - - - | NEW 100mm RIGID PVC DUCT |
| - - - - | NEW 50mm RIGID PVC DUCT | ~~~~~ | EXISTING O/H SIL CABLE |
| - - - - | EXISTING 100mm RIGID PVC DUCT | ~~~~~ | NEW O/H SIL CABLE |

WIRING

- | | | | | | |
|-----|-------|-----|-------------------------|---|--|
| --- | EX SL | --- | EXISTING SIL CABLE | □ | DENOTES JUNCTION BOX OR HANDWELL ON WIRING DIAGRAM |
| --- | HCU | --- | HYDRO CABLE UNDERGROUND | | |
| --- | HCA | --- | HYDRO CABLE AERIAL | | |

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STREET LIGHT POLE DETAILS

I.D.	POLE #	OFFSET FROM EP	STATION	STREET LIGHT POLE TYPE / MATERIAL	HEIGHT	ARM & HEAD BRACKET	WATTAGE	GROUND ROD	IN-POLE BREAKER

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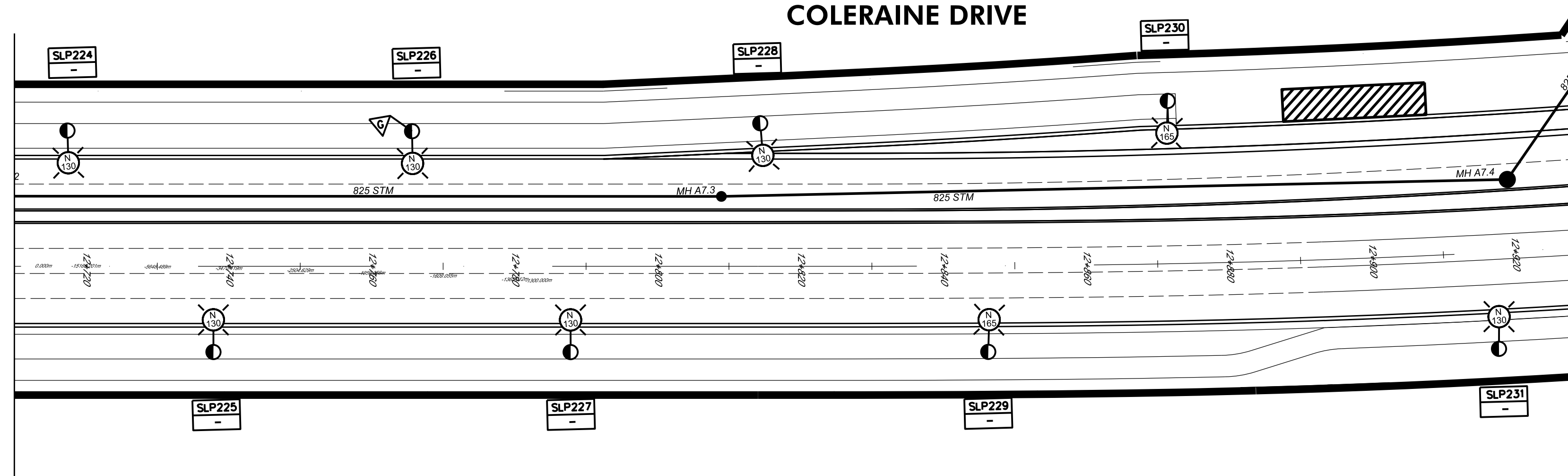
Moon-Matz Ltd.
Consulting Engineers

BRAMPTON Flower City Planning and Infrastructure Services
Public Works

COLERAINE DRIVE
COUNTRYSIDE DRIVE TO ARTERIAL A2
PROPOSED STREET LIGHTING - LAYOUT XII

DWG. NO.: N1-10SL-XX SHT NO.: SL-13

MATCHLINE STA. 12+710



MATCHLINE STA. 12+930

MATCHLINE STA. 13+020

