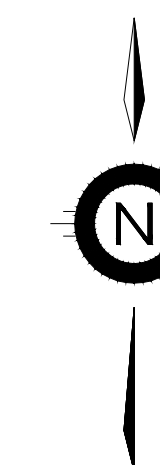
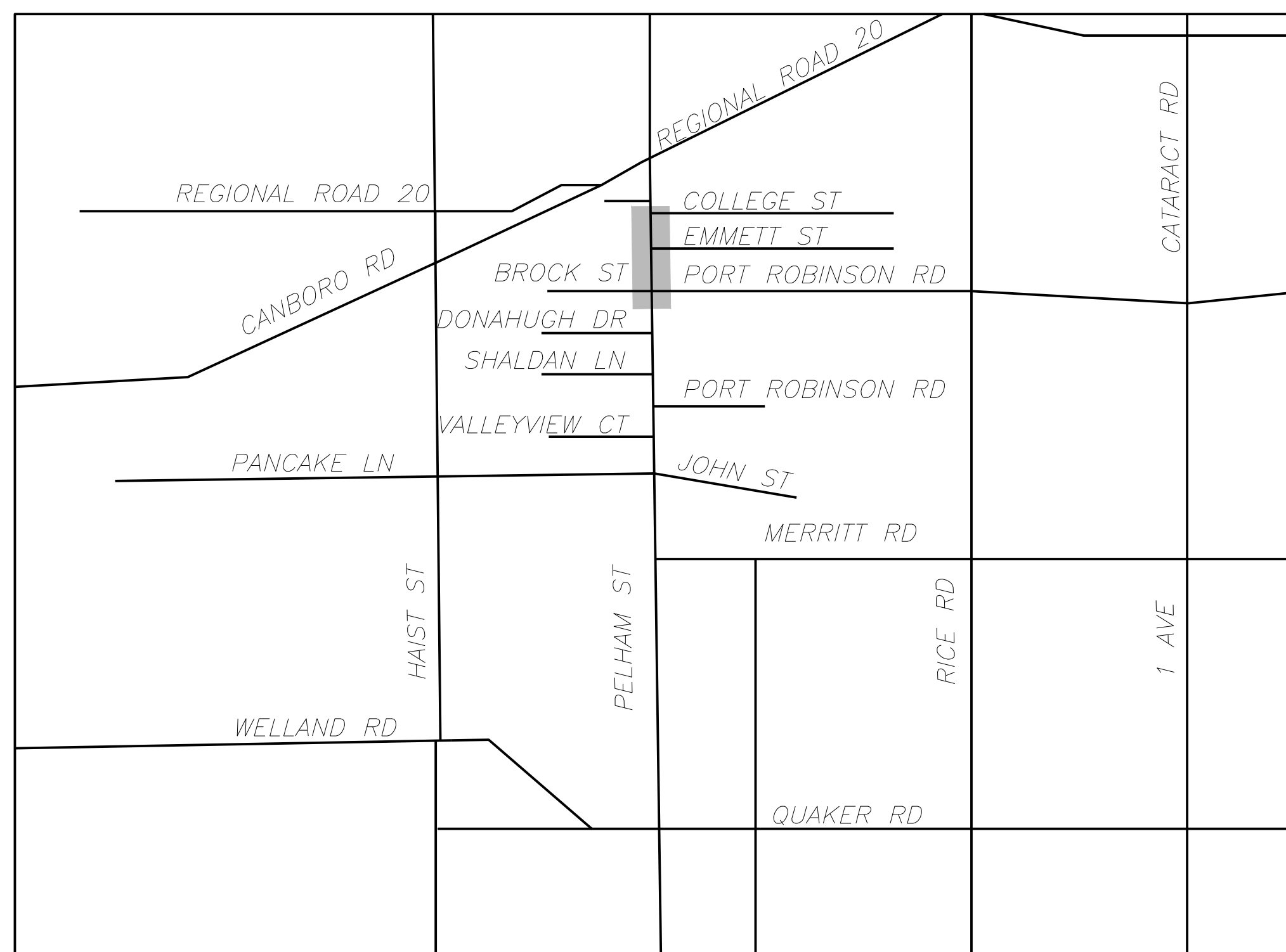




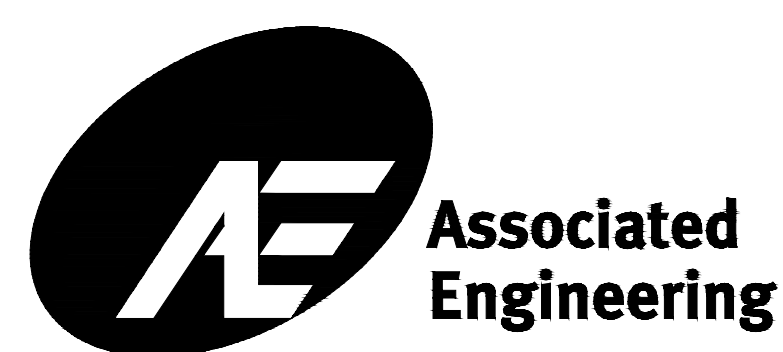
CONTRACT NO. 2020-PW-18

**PELHAM STREET - PHASE 1A
ROAD AND MUNICIPAL IMPROVEMENTS
FROM BROCK STREET/ PORT ROBINSON ROAD TO COLLEGE STREET
IN THE TOWN OF PELHAM**

MARVIN JUNKIN
MAYOR



JASON MARR, P. ENG
DIRECTOR OF PUBLIC WORKS

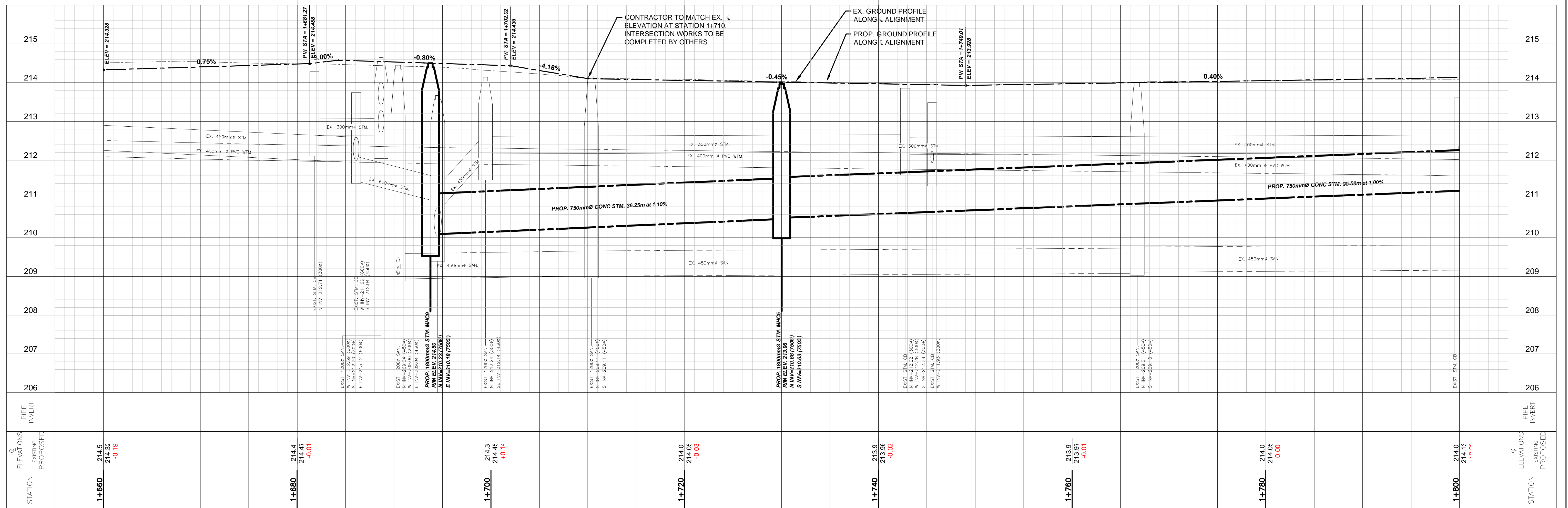
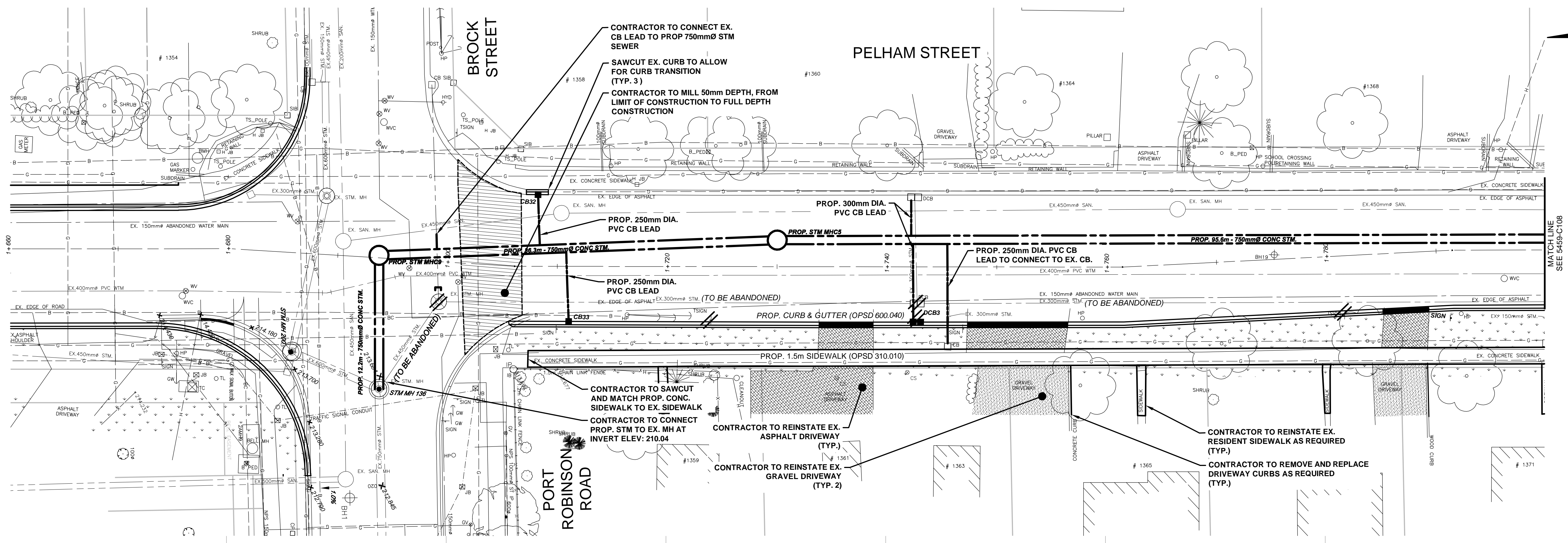


LOCATION PLAN - (NOT TO SCALE)

2020-PW-18

**PELHAM STREET - PHASE 1A
ROAD AND MUNICIPAL IMPROVEMENTS
FROM BROCK STREET/ PORT ROBINSON RD TO COLLEGE STREET
IN THE TOWN OF PELHAM**

NO.	REVISION	DATE	INT.
1	ISSUED FOR CONSTRUCTION	OCT 23, 2020	MW
0	ISSUED FOR TENDER	SEPT 4, 2020	MW

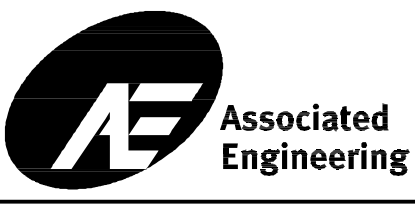


STATION	ELEVATIONS EXISTING PROPOSED	PIPE INVERT	ELEVATIONS EXISTING PROPOSED	STATION
1+660	214.5 214.3 -0.15			1+660
1+680	214.4 214.4 -0.01			1+680
1+700	214.3 214.4 +0.14			1+700
1+720	214.0 214.0 -0.03			1+720
1+740	213.9 213.9 -0.02			1+740
1+760	213.9 213.9 -0.01			1+760
1+780	214.0 214.0 0.00			1+780
1+800	214.0 214.0			1+800



DRAFTING: MM
DESIGN: MM
CHECKED BY: JT
APPROVED BY: JT/MM

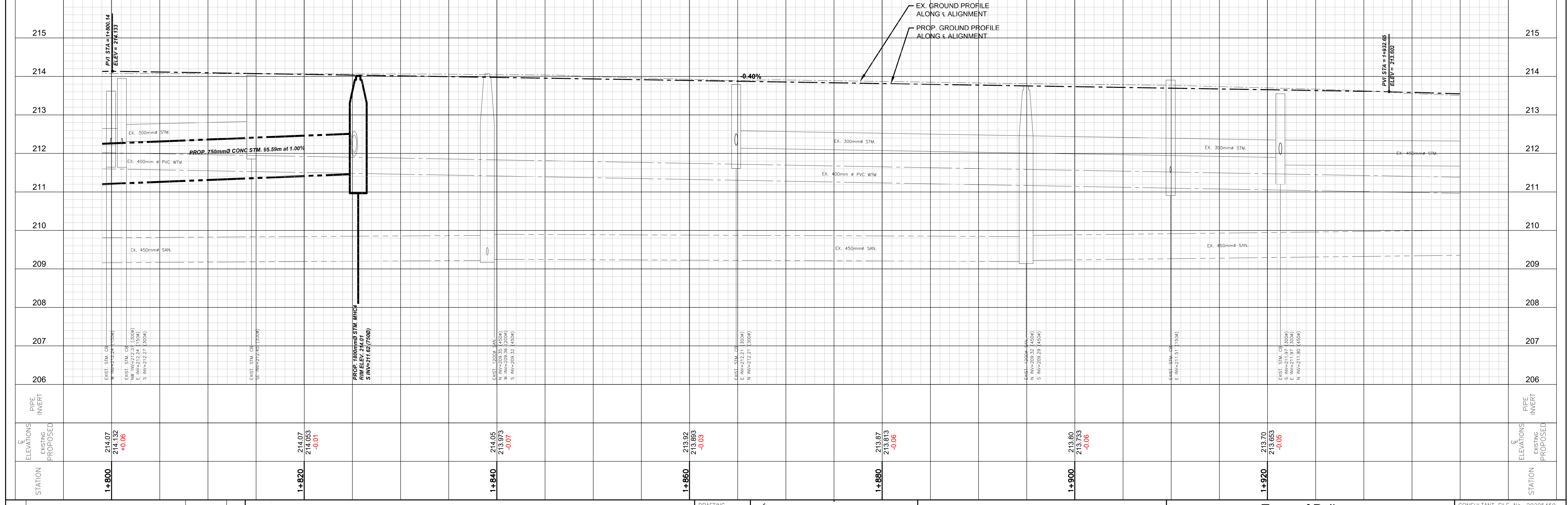
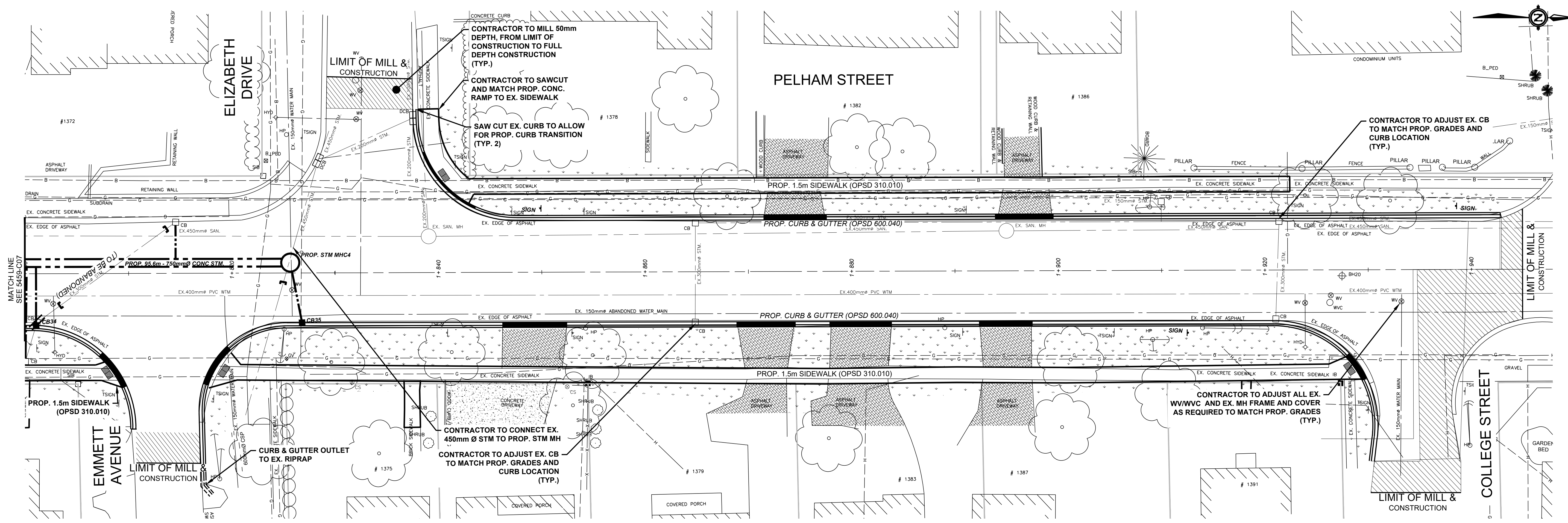
Professional Engineers Ontario
Limited Licensee
Name: M. A. MASCIOLI
Number: 100203964
Category: Civil
2020-10-27
Limitations:
This license is subject to the limitation as detailed on the certificate.
Association of Professional Engineers of Ontario



Town of Pelham
**PELHAM STREET
ROAD RECONSTRUCTION PHASE 1A**

ROAD GEOMETRIC DESIGN
FROM STA. 1+660 TO STA. 1+800

CONSULTANT FILE No. 20205459	DATE JULY 2020
SCALE Hor: 1:200 m Ver: 1:50 m	REV. 1
REF. No.	DWG No. 5459-C107



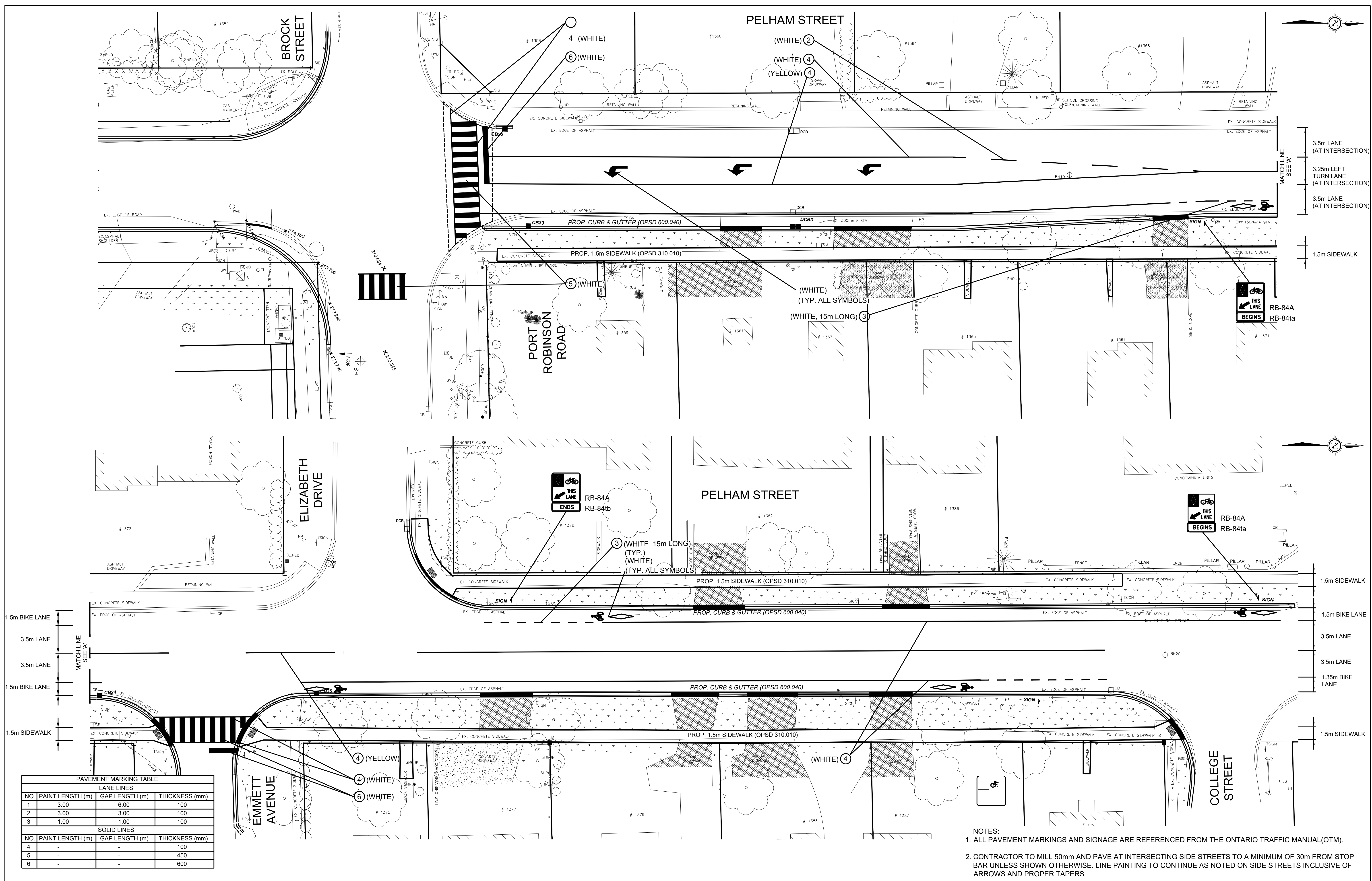
STATION	ELEVATIONS EXISTING PROPOSED	PIPE INVERT
1+800	214.07 214.132 +0.06	
1+820	214.07 214.083 -0.01	
1+840	214.05 213.973 -0.07	
1+860	213.92 213.883 -0.03	
1+880	213.87 213.813 -0.06	
1+900	213.80 213.733 -0.06	
1+920	213.70 213.653 -0.05	

DRAFTING: MM
 DESIGN: MM
 CHECKED BY: JT
 APPROVED BY: JT/MM

Professional Engineers Ontario
Limited Licensee
 Name: M. A. MASCIOLI
 Number: 100209964
 Category: Civil
 Limitations:
 This license is subject to the limitation as detailed on the certificate.
 Association of Professional Engineers of Ontario

Town of Pelham
PELHAM STREET
 ROAD RECONSTRUCTION PHASE 1A
 ROAD GEOMETRIC DESIGN
 FROM STA. 1+800 TO PROJECT LIMITS

CONSULTANT FILE No. 20205459
 DATE: JULY 2020
 SCALE: Hor: 1:200 m
 Ver: 1:50 m
 REF. No.
 DWG No. 5459-C108
 REV. 1



PAVEMENT MARKING TABLE

LANE LINES			
NO.	PAINT LENGTH (m)	GAP LENGTH (m)	THICKNESS (mm)
1	3.00	6.00	100
2	3.00	3.00	100
3	1.00	1.00	100

SOLID LINES			
NO.	PAINT LENGTH (m)	GAP LENGTH (m)	THICKNESS (mm)
4	-	-	100
5	-	-	450
6	-	-	600

NOTES:
 1. ALL PAVEMENT MARKINGS AND SIGNAGE ARE REFERENCED FROM THE ONTARIO TRAFFIC MANUAL (OTM).
 2. CONTRACTOR TO MILL 50mm AND PAVE AT INTERSECTING SIDE STREETS TO A MINIMUM OF 30m FROM STOP BAR UNLESS SHOWN OTHERWISE. LINE PAINTING TO CONTINUE AS NOTED ON SIDE STREETS INCLUSIVE OF ARROWS AND PROPER TAPERS.

NO.	REVISION	DATE	INIT.
1	ISSUED FOR CONSTRUCTION	OCT 23 2020	MM
0	ISSUED FOR TENDER	SEPT 4 2020	MM



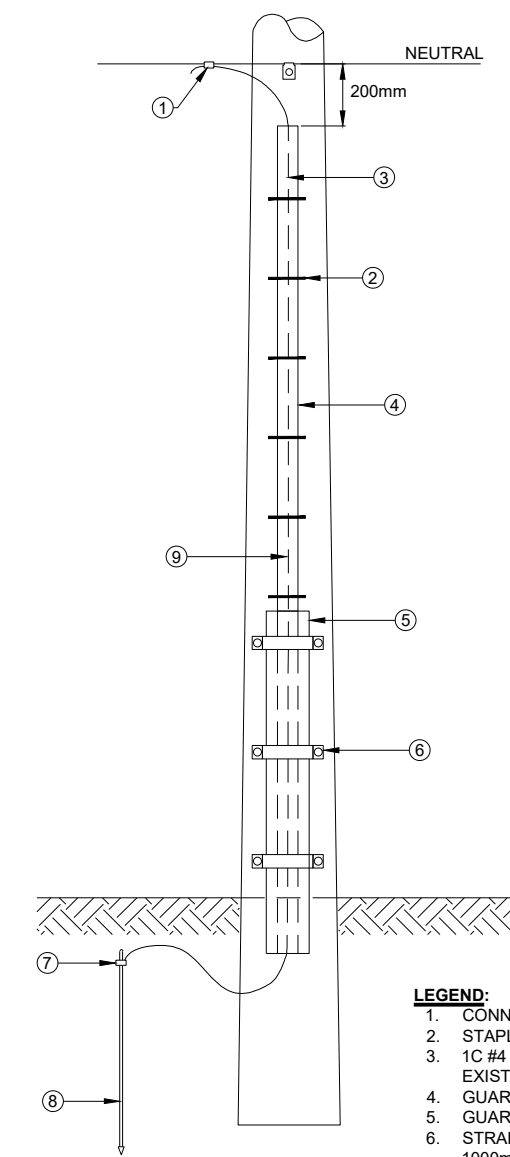
DRAFTING: MM
 DESIGN: MM
 CHECKED BY: JT
 APPROVED BY: JT/MM

Professional Engineers Ontario
Limited Licensee
 Name: M. A. MASCIOLI
 Number: 180293964
 Category: Civil
 Limitations: This license is subject to the limitation as detailed on the certificate.
 Association of Professional Engineers of Ontario

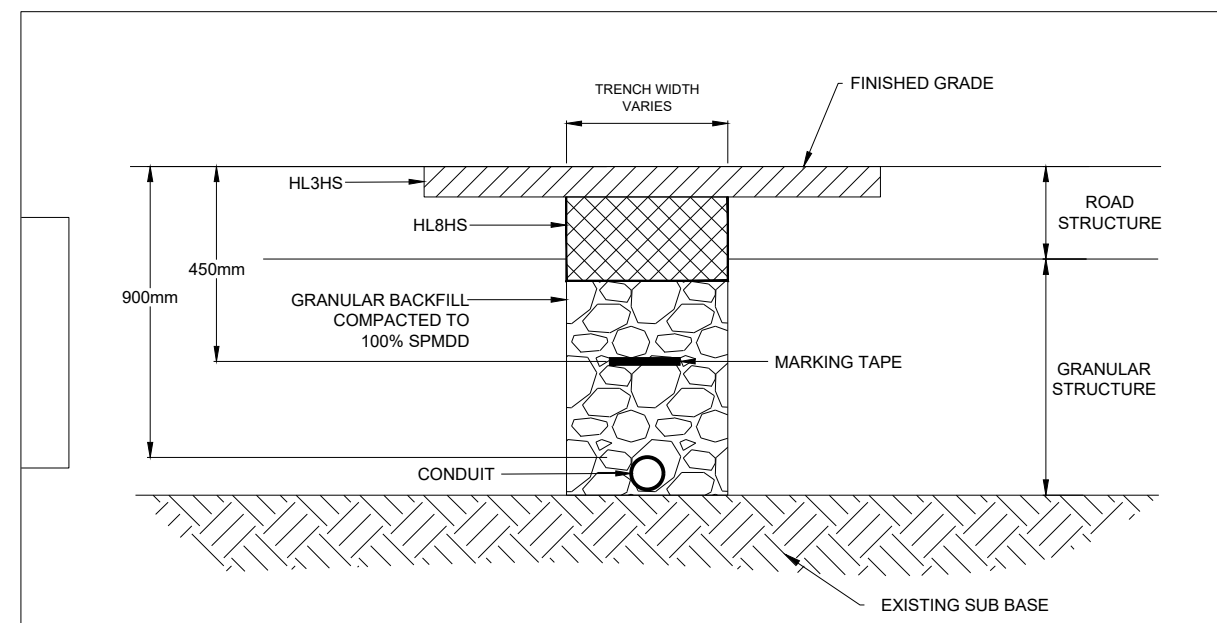


Town of Pelham
PELHAM STREET
 ROAD RECONSTRUCTION PHASE 1A
 LINE PAINTING AND SIGNAGE
 STA. 1+560 TO STA. 1+800

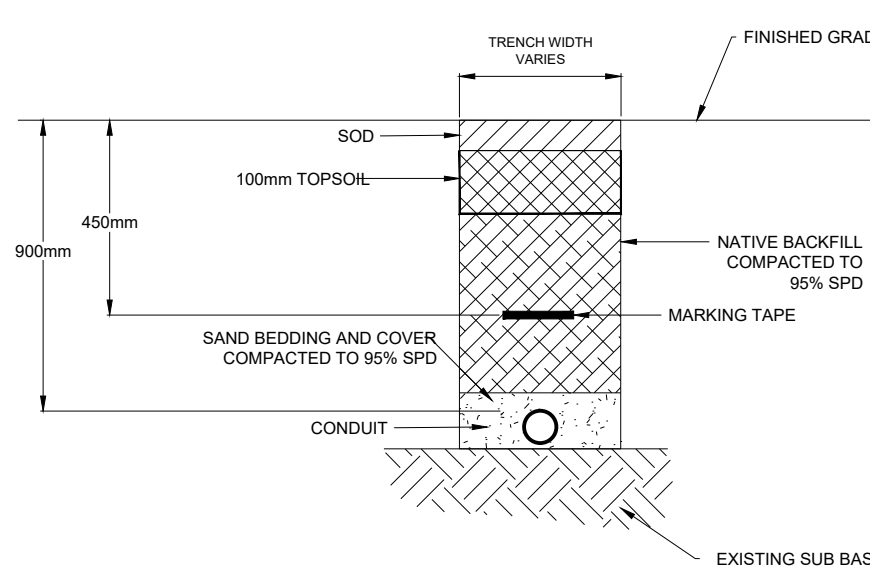
CONSULTANT FILE No. 20205459	DATE JULY 2020
SCALE 1:200 m	REF. No.
DWG No. 5459-00-C203	REV. 1



DETAIL 3 - GROUNDING FOR OVERHEAD INSTALLATION ON EXISTING WOODEN POLE
N.T.S.



DETAIL 1 - TRENCH AT INTERSECTION ROAD CROSSING
N.T.S.



DETAIL 2 - TRENCH LOCATED ON SIDE OF ROADWAY
N.T.S.

LUMINAIRE/ARM SCHEDULE		
DESCRIPTION	WATTS	QUANTITY
ROADWAY LED LUMINAIRE, COBRAHEAD MEDIUM, 400K, TYPE II MEDIUM, 120V, HOUSE SIDE SHELD, TWIST-LOCK PHOTOELECTRIC CELL, SURGE PROTECTOR, GRAY, MOUNTING HEIGHT: 10m	160	11
PHILIPS LUMEC # RFL-160V-LED-4K-G2-R2M-LN-V-DWG-H-S-PHOL-RCD-SP2		
STREET LIGHT ARM ELLIPTICAL, (FOR NEW STEEL POLES), 2.44m LENGTH		1
ALUMINOUS # ALS-REIM		
STREET LIGHT ARM (FOR EXISTING WOODEN POLES), 2.44m LENGTH		10
ALUMINOUS # ALP-WEBM		

POLE SCHEDULE		
No.	DESCRIPTION	REMARKS
LS1	EX. WOOD HYDRO POLE TO REMAIN	LUMINAIRE/ARM TO BE REPLACED
LS2	EX. WOOD HYDRO POLE TO REMAIN	LUMINAIRE/ARM TO BE REPLACED
LS3	EX. WOOD HYDRO POLE TO REMAIN	LUMINAIRE/ARM TO BE REPLACED
LS4	EX. WOOD HYDRO POLE TO REMAIN	LUMINAIRE/ARM TO BE REPLACED
LS5	EX. WOOD HYDRO POLE TO REMAIN	LUMINAIRE/ARM TO BE REPLACED
LS6	EX. WOOD HYDRO POLE TO REMAIN	LUMINAIRE/ARM TO BE REPLACED
LS7	EX. WOOD HYDRO POLE TO REMAIN	LUMINAIRE/ARM TO BE REPLACED
LS8	EX. WOOD HYDRO POLE TO REMAIN	LUMINAIRE/ARM TO BE REPLACED
LS9	EX. WOOD HYDRO POLE TO REMAIN	LUMINAIRE/ARM TO BE REPLACED
LS10	NEW SECTION STEEL POLE, DIRECT BURIED POLE/FAB # AS1742-1 OR APPROVED EQUAL	NEW LUMINAIRE/ARM
LS11	EX. WOOD HYDRO POLE TO REMAIN	LUMINAIRE/ARM TO BE REPLACED

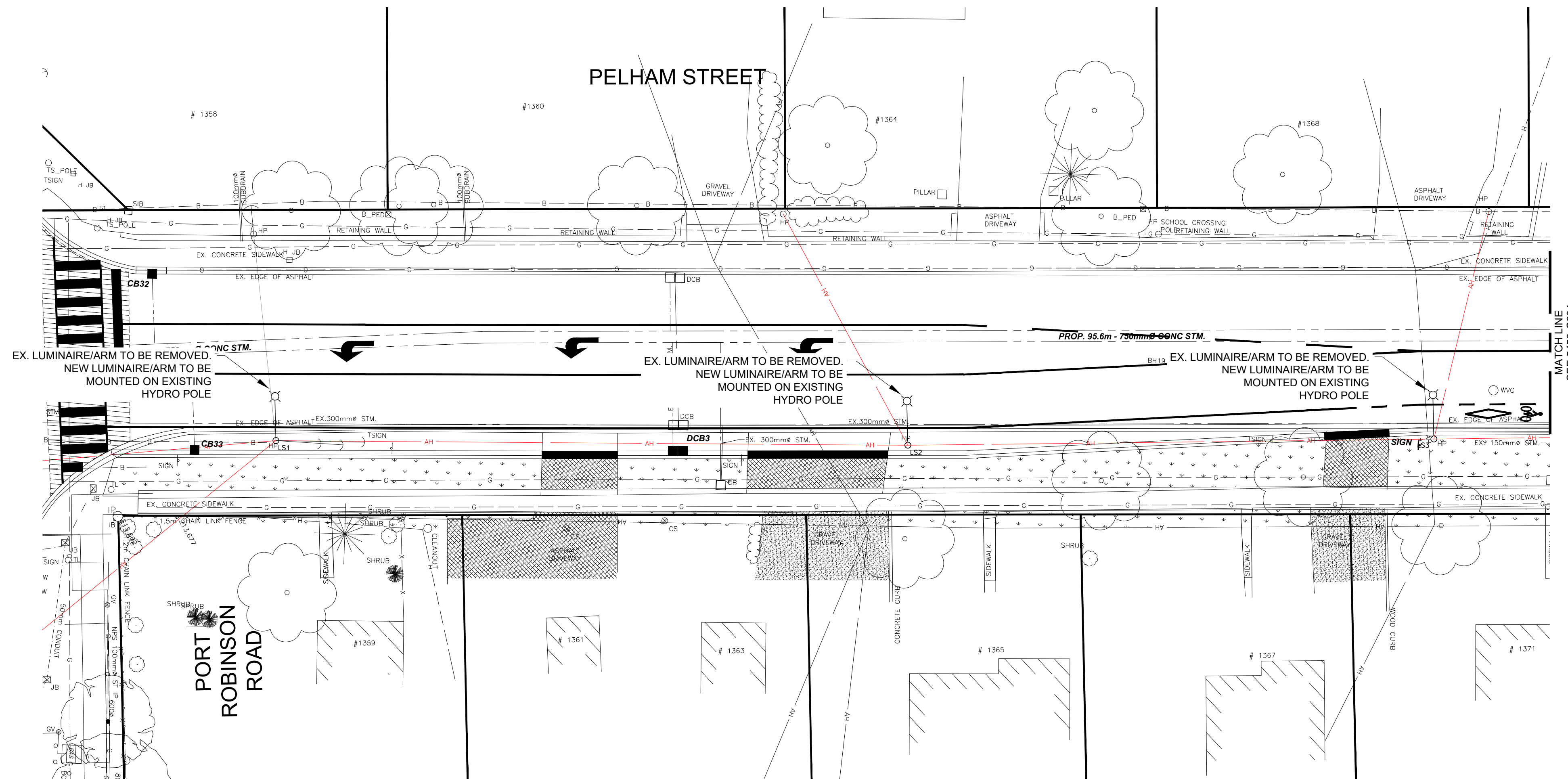
LEGEND

ELECTRICAL/LIGHTING BLOCKS

- ☒ HAND HOLES
- LUMINAIRE
- L57 LIGHTING POLE (Example shows pole tag L57)
- ← 3in x 18mm, POINTED COPPER CLAD GROUND ROD CONNECTED TO POLE WITH #6 AWG RW90 XLPE, INSULATED AND COLOUR

POWER LINETYPES

2x104 AWG RW90 + #6 AWG RW90 XLPE, INSULATED AND COLOUR CODED, IN 53mm R/PVC CONDUIT



- GENERAL NOTES:**
- ALL WORK AND EQUIPMENT PROVIDED SHALL BE IN COMPLIANCE WITH GOVERNING AUTHORITIES, ONTARIO ELECTRICAL SAFETY CODE (OESC) AND APPLICABLE CODES. WHERE GOVERNING FEDERAL, PROVINCIAL AND MUNICIPAL CODES AND REGULATIONS ARE AT VARIANCE WITH THE DRAWINGS AND/OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT WILL APPLY.
 - CONTRACTOR SHALL OBTAIN LOCATES AND PERMITS PRIOR TO COMMENCING WORK.
 - ALL EQUIPMENT SHALL BE BONDED AND GROUNDED AS REQUIRED BY CODE.
 - ALL EQUIPMENT AND MATERIAL SHALL BE NEW AND CSA APPROVED.
 - REFER TO THE FOLLOWING STANDARDS FOR DETAILS:
 - OPSD 2101.015 DUCT INSTALLATION IN TRENCHES
 - OPSD 2117.020 ELECTRICAL HANDHOLES, GENERAL INSTALLATION REQUIREMENTS
 - OPSD 2200.050 CONCRETE FOUNDATION FOR DIRECT BURIED LIGHTING POLES WHERE ROCK IS ENCOUNTERED
 - OPSD 2232.010 SECTIONAL STEEL POLE WITH BRACKET, LUMINAIRE AND TRAFFIC SIGNAL HEAD
 - OPSD 2255.010 ALUMINUM TAPERED ELLIPTICAL BRACKETS ON METAL AND CONCRETE POLES
 - OPSD 2256.010 POLE WIRING DIAGRAM, 120V SYSTEM
 - OPSD 2300.010 RIGID

NO.	REVISION	DATE	INIT.
1	ISSUED FOR CONSTRUCTION	OCT 23 2020	MM
0	ISSUED FOR TENDER	SEP 4 2020	AS

1 THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWER AND OTHER UNDERGROUND AND OVERGROUND 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.

2 PROPERTY LINES WERE PLOTTED USING REGISTERED PLANS AND BARS LOCATED IN THE FIELD, TO VERIFY THE ACCURACY OF THESE PROPERTY LINES, A LEGAL SURVEY SHOULD BE PERFORMED PRIOR TO CONSTRUCTION.

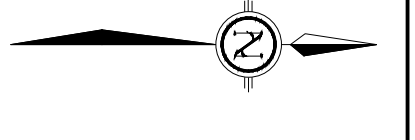
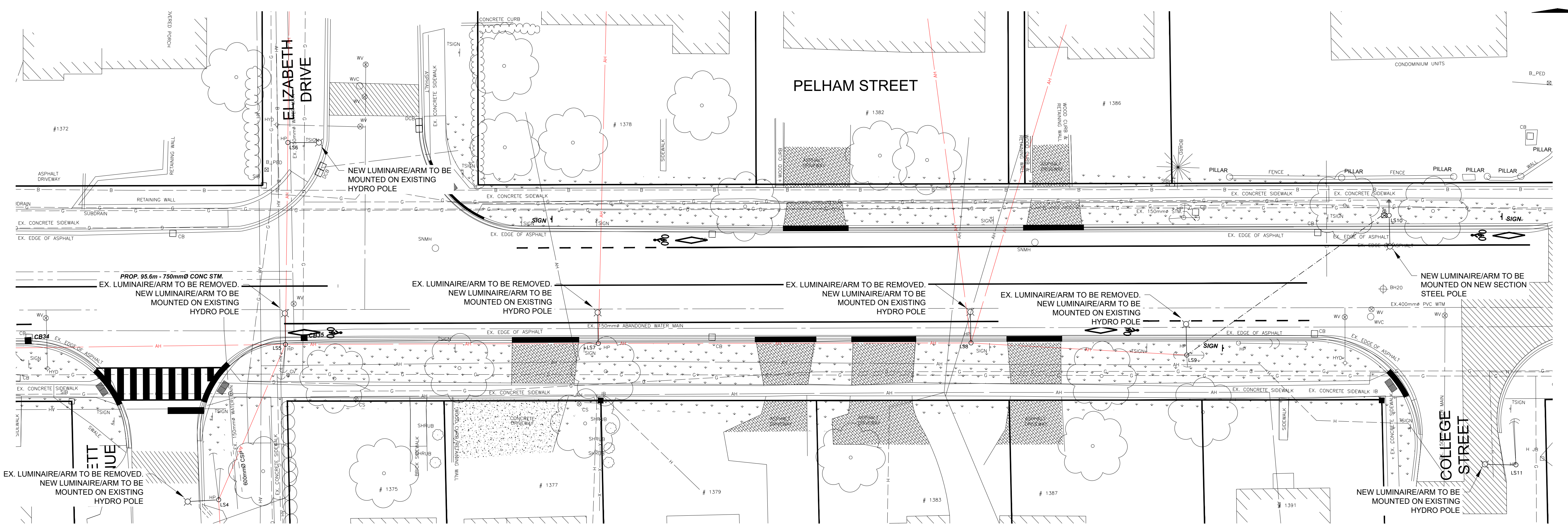
DRAFTING	AS
DESIGN	AS
CHECKED BY	AS
APPROVED BY	AS



Town of Pelham
PELHAM STREET
 ROAD RECONSTRUCTION PHASE 1A

LIGHTING
 STA. 1+700 TO STA. 1+800

CONSULTANT FILE No.	20205459
DATE	JULY 2020
SCALE	1:200 m
REF. No.	
DWG No.	5459-00-E203
REV.	1



NO.	REVISION	DATE	INIT.
1	ISSUED FOR CONSTRUCTION	OCT 23 2020	MM
0	ISSUED FOR TENDER	SEP 4 2020	AS

1 THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWER AND OTHER UNDERGROUND AND OVERGROUND 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.

2 PROPERTY LINES WERE PLOTTED USING REGISTERED PLANS AND BARS LOCATED IN THE FIELD. TO VERIFY THE ACCURACY OF THESE PROPERTY LINES, A LEGAL SURVEY SHOULD BE PERFORMED PRIOR TO CONSTRUCTION.

DRAFTING	AS
DESIGN	AS
CHECKED BY	AS
APPROVED BY	AS



Town of Pelham
PELHAM STREET
 ROAD RECONSTRUCTION PHASE 1A

LIGHTING
 STA. 1+800 TO STA. 1+940

CONSULTANT FILE No.	20205459
DATE	JULY 2020
SCALE	1:200 m
REF. No.	
DWG No.	5459-00-E204
REV.	1