

Client:

# CITY OF COQUITLAM

3000 GUILDFORD WAY, COQUITLAM

Description:

## CURB EXTENSION AND PAVEMENT REHABILITATION

ATLANTIC AVENUE

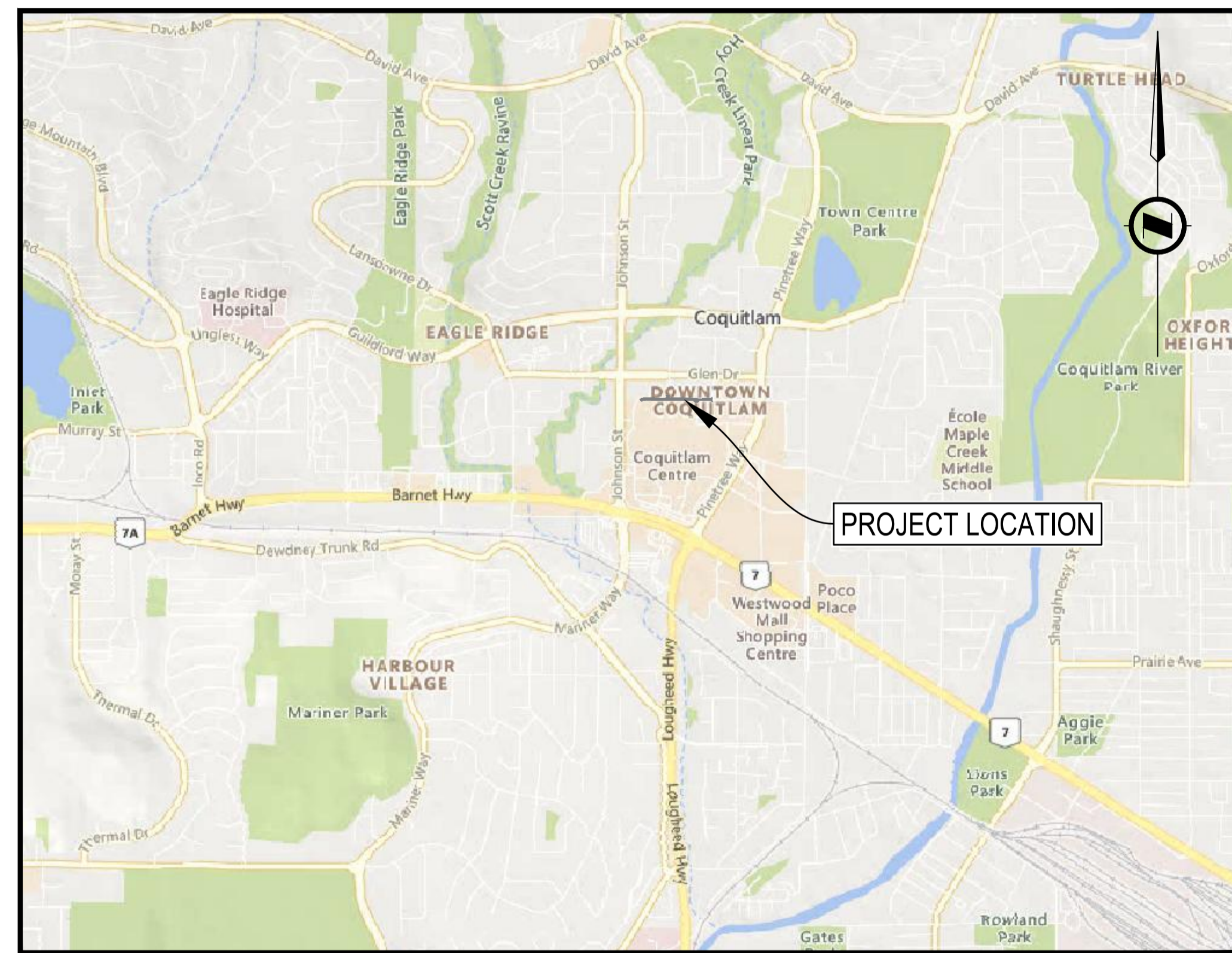
ML Project No:

2111-06307-00

Client Project No:

51772

**ISSUED FOR TENDER**  
FEBRUARY 22, 2024



LOCATION PLAN  
SCALE 1:20,000

DRAWING INDEX	
SHEET NUMBER	SHEET TITLE
00	COVER
01	SITE PLAN
02	ROADWORKS - ATLANTIC AVENUE - STA. 0+977 TO STA. 1+080
03	ROADWORKS - ATLANTIC AVENUE - STA. 1+080 TO STA. 1+200
04	ROADWORKS - ATLANTIC AVENUE - STA. 1+200 TO STA. 1+296
05	ROADWORKS - ATLANTIC AVENUE AND PACIFIC STREET INTERSECTION
06	ROADWORKS - ATLANTIC AVENUE AND BALDWIN STREET INTERSECTION
07	CROSS SECTIONS - ATLANTIC AVENUE - STA. 0+980 TO STA. 1+280



Suite 2300  
13450 102nd Avenue  
Surrey BC  
Canada V3T 5X3  
T 604 596 0391



**GENERAL CONSTRUCTION NOTES:**

- CONTACT & NOTIFY ALL HOMEOWNERS AFFECTED BY WORKS 4 WEEKS PRIOR TO CONSTRUCTION.
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO MUNICIPALITY STANDARD SPECIFICATIONS AND DRAWINGS UNLESS OTHERWISE NOTED ON THIS DRAWING.
- REPAIR AND/OR REPLACE ALL INFRASTRUCTURE/PRIVATE PROPERTY DAMAGED OR REMOVED DURING CONSTRUCTION, TO BETTER THAN, OR EQUAL TO PRE-CONSTRUCTION CONDITION.
- REINSTATE ALL PRIVATE PROPERTY AND BOULEVARDS TO PRE-CONSTRUCTION CONDITIONS.
- CONTACT MUNICIPALITY PARKS DEPARTMENT PRIOR TO WORKING IN AND AROUND TREES.
- ENSURE THE CURRENT MUNICIPAL O.H.&S. GROUND DISTURBANCE PRACTICE AND PROCEDURES ARE FOLLOWED. CONTACT BC1 AT 1-800-474-6886 FOR EXTERNAL UTILITY LOCATIONS AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- NOTIFY THOSE HOMEOWNERS WHO WILL BE AFFECTED BY CONSTRUCTION 48 HRS BEFORE BEGINNING WORKS.
- CONFIRM LOCATION AND ELEVATION OF EXISTING UTILITIES AT ALL CROSSINGS AND CONNECTIONS PRIOR TO CONSTRUCTION.
- ENSURE ALL EXISTING SERVICES STAY IN OPERATIONAL CONDITION DURING CONSTRUCTION.
- STA. 1+000 WAS SET TO ALIGN WITH PROPERTY LINE OF R/WP/86276 AND E.P. 66059

**ENVIRONMENTAL NOTES:**

USE BEST MANAGEMENT PRACTICES DURING CONSTRUCTION. ADJUST WORK ACTIVITIES DURING PERIODS OF HEAVY RAIN TO MINIMIZE SEDIMENTS ENTERING THE STORM DRAINAGE SYSTEM. SOME BMB'S TO CONSIDER:

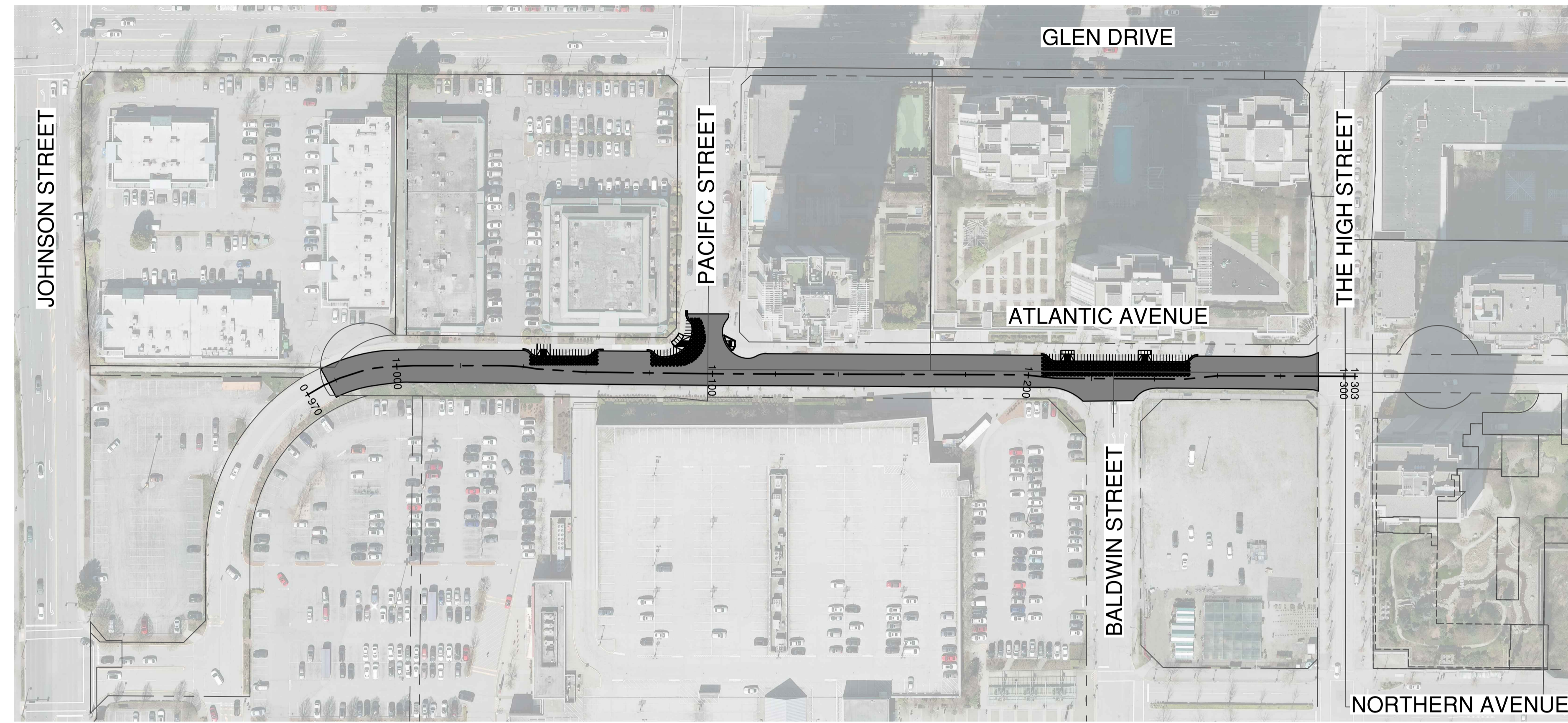
- CHECK ALL EQUIPMENT FOR FLUID LEAKS PRIOR TO ENTERING THE WORK AREA.
- NO EQUIPMENT RE-FUELING TO OCCUR IN THE WORK AREA UNLESS SPILL PROTECTION MEASURES ARE IN PLACE.
- A SPILL KIT IS TO BE MAINTAINED ON SITE THROUGHOUT THE CONSTRUCTION PERIOD
- SURFACE WATER IS TO BE MANAGED WITHIN THE WORK AREA AND TREATED BEFORE DISCHARGED. THIS MAY INCLUDE ONSITE DETENTION AND/OR CULVERT FILTRATION.
- COVER EXPOSED SOILS IN INCLEMENT WEATHER w/ TARP, HYDRO SEED OR ORGANIC LEAF MULCH
- STOCKPILE SOILS AWAY FROM CULVERT INLETS AND ENSURE THEY ARE COVERED IF LEFT FOR MORE THAN 48 HOURS.
- SURROUND PROTECTED TREES WITH SNOW FENCING AT DRIP LINE OR CRITICAL ROOT ZONE OF TREE DURING CONSTRUCTION. CONTACT MUNICIPAL ARBORIST PRIOR TO BEGINNING CONSTRUCTION. INSTALL SILT FENCING AS PER DETAIL A IN LOCATION SHOWN ON PLAN.

**ROADWORKS NOTES:**

- ALL WORKS TO CONFORM TO THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (2009 EDITION - PLATINUM) AND ALL COQUITLAM APPROVED REVISIONS, AND TO THE CURRENT EDITION OF THE CITY OF COQUITLAM SUPPLEMENTAL SPECIFICATIONS AND STANDARD DETAIL DRAWINGS
- CHANGES OF GRADE AND DIRECTION FORMED BY SMOOTH VERTICAL AND HORIZONTAL CURVES.
- ALL EXISTING MANHOLE FRAMES, WATER AND GAS VALVE BOXES, SURVEY MONUMENT BOXES ETC. TO BE ADJUSTED TO SUIT NEW PAVEMENT GRADE AND CROSS-FALL

**SIGNAGE AND PAVEMENT MARKING NOTES:**

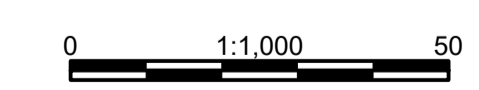
- ALL PAVEMENT MARKINGS AND SIGNAGE AS PER THE MANUAL UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA
- ALL PAVEMENT MARKINGS ARE THERMOPLASTIC



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Edge of pavement	Hydrant	Sanitary service
Watermain and valve	Water air valve	Sanitary cleanout
Drainage sewer, MH	Water blowoff	Utility pole (joint pole)
Drainage ditch	Water service	Utility pole with light
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, dovit
Sanitary foremain	Catch basin, side inlet	Streetlight, post top
Gasmain and valve	Catch basin, round	Comb signal pole
Hydro duct, MH	Drainage service	Traffic signal pole
Telephone duct, MH	Drainage cleanout	Traffic signal post

STAMP

Approved Sealed

NO.	DATE	BY	REVISIONS	ENG.
B	2024.02.22	JN	ISSUED FOR TENDER	AG
PA	2023.12.15	HL	PRELIMINARY DESIGN SUBMISSION	AG

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MWJ	December 12, 2023
CHECKED BY	DATE
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APPROVED BY	DATE
MH	December 12, 2023

**Coquitlam**

**McElhanny**

PERMIT TO PRACTICE  
McElhanny Ltd.  
PERMIT NUMBER: 1003299  
Engineer and Geoscientist of B.C.

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Surrey BC  
Canada V3T 5X3  
T 604 596 0391

SCALE HORIZ. 1:1000 SCALE VERT. N/A

SHEET 01 OF 07

ENG PROJECT NUMBER 2111-06307-00

PROJECT CURB EXTENSION AND PAVEMENT REHABILITATION  
ATLANTIC AVENUE

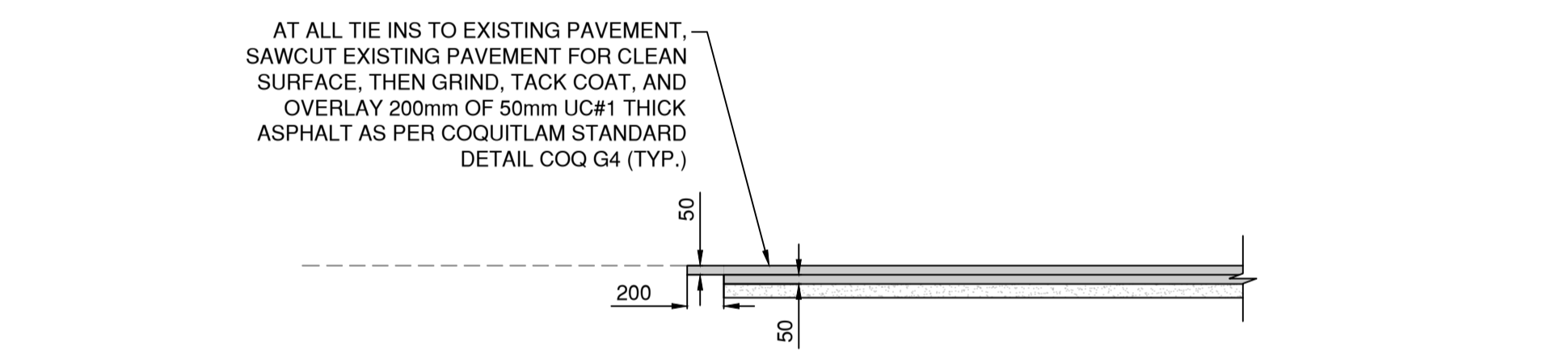
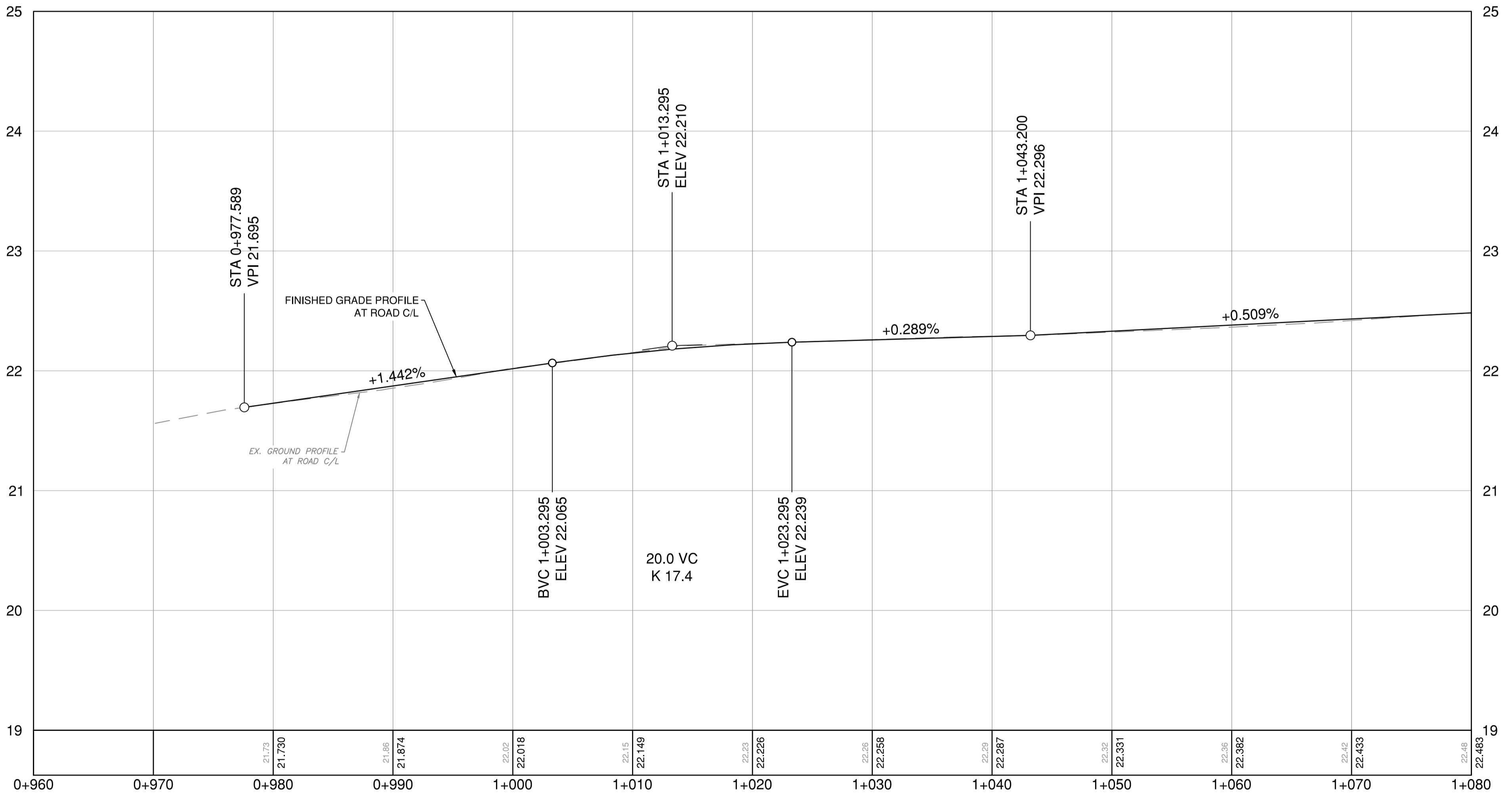
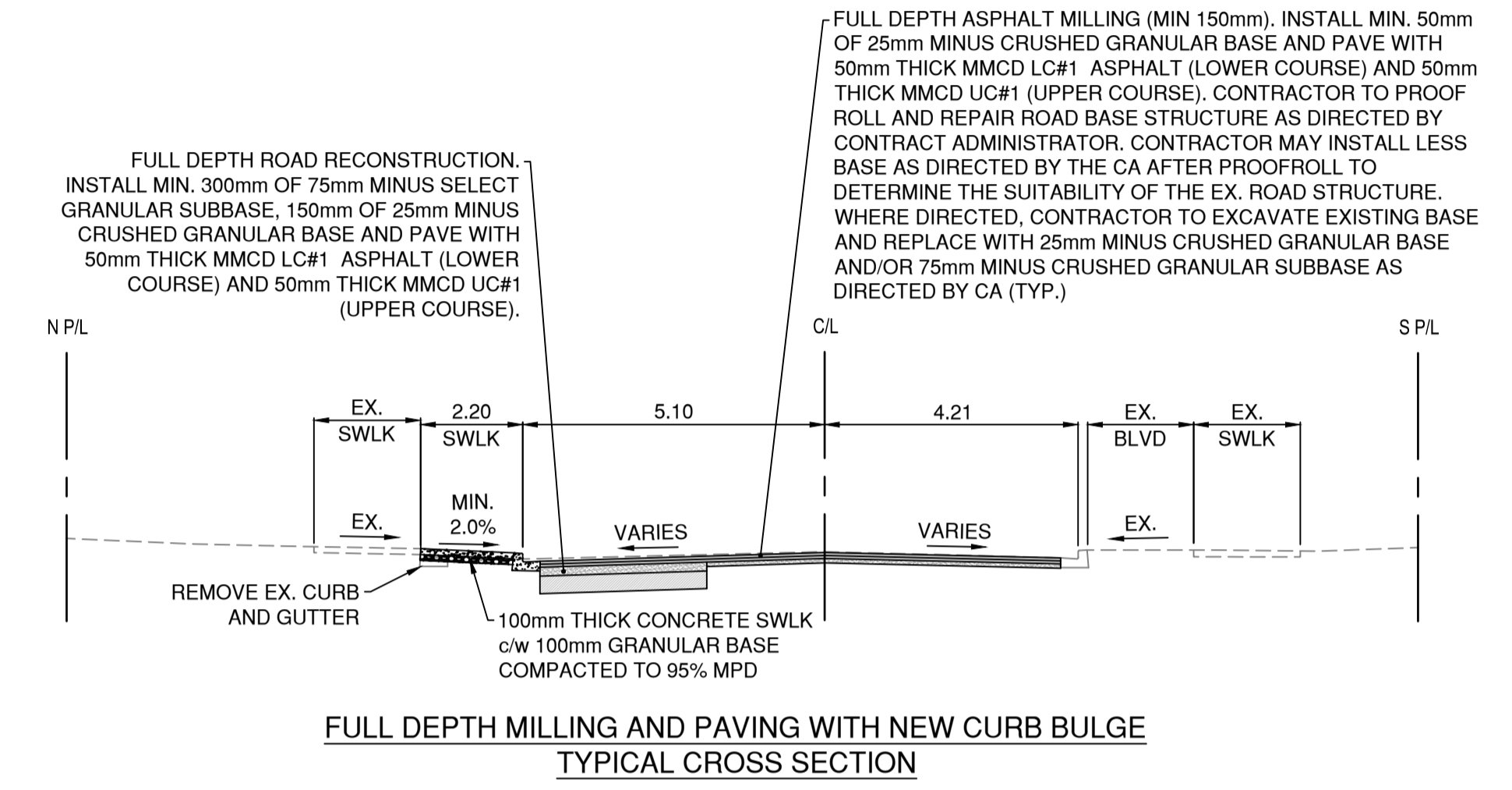
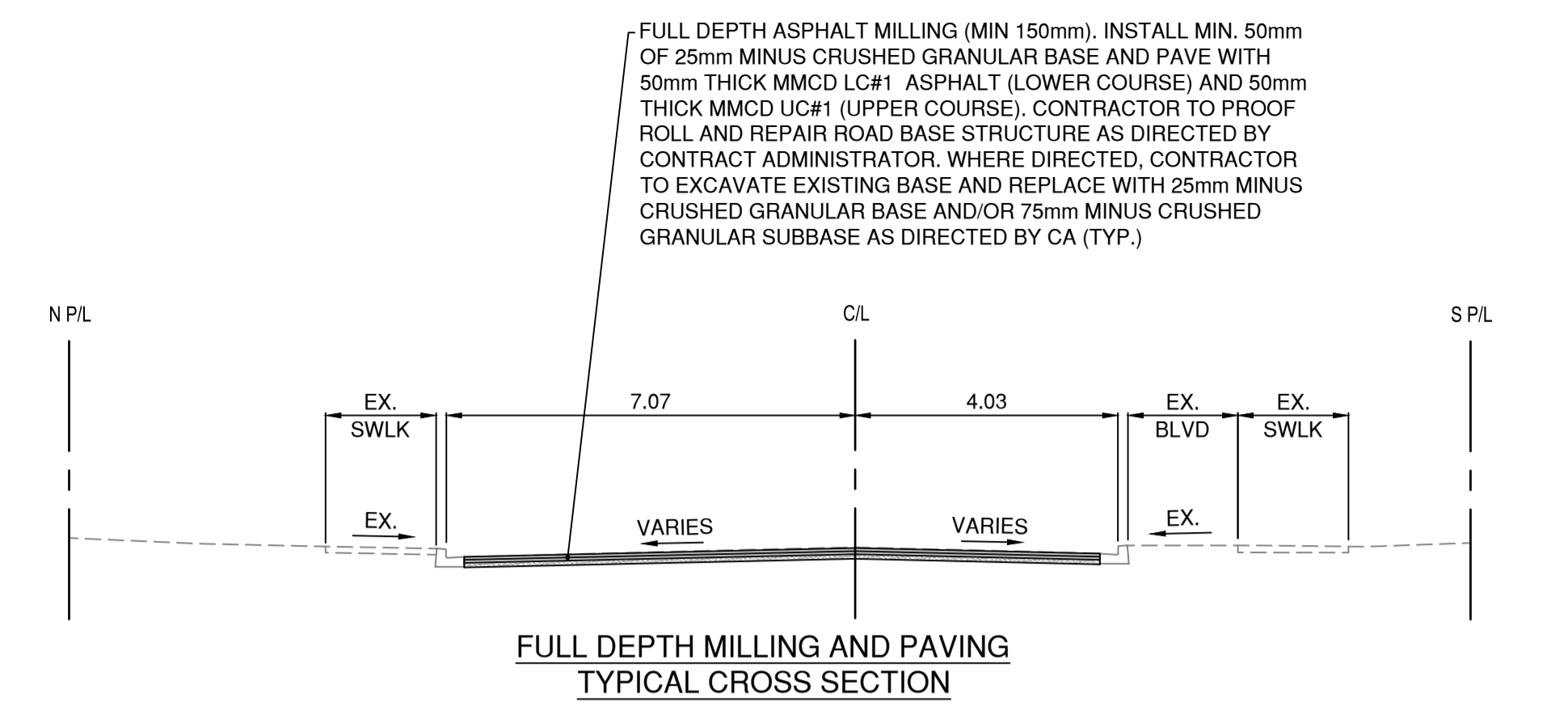
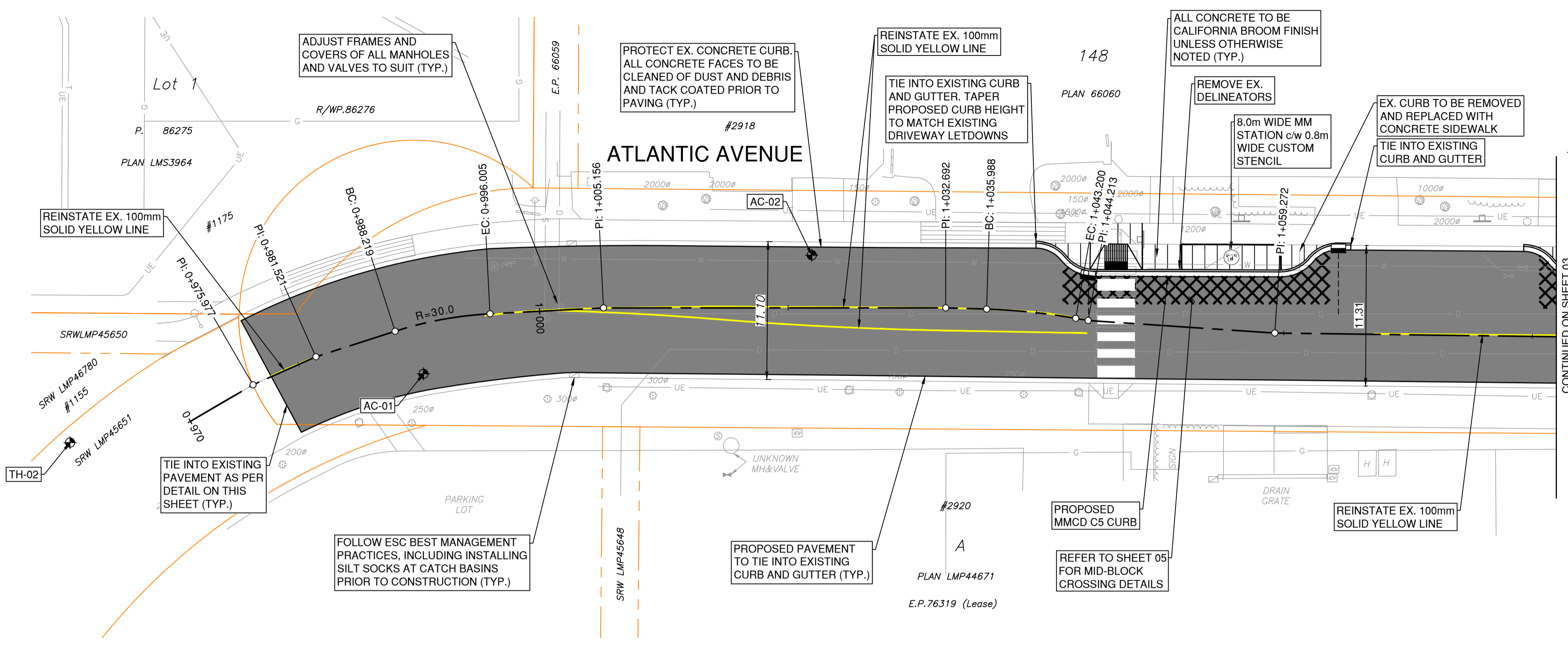
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DATE: 2024-02-22, 16:35 FILE: X:\211106307-00\Coq-Atlantic Ave Curb Extension and Pavement Rehab\07\_DRAWINGS\01\_Sheets\06307-C0-000.dwg

DESTROY ALL PRINTS BEARING PREVIOUS REVISION





**TEST HOLE - 02**

DESCRIPTION	LAYER THICKNESS
ASPHALTIC CONCRETE	0-80mm
ROAD BASE SAND AND GRAVEL	80-110mm
GRAY SAND AND GRAVEL WITH TRACE SILT	110-320mm
TAN SAND AND GRAVEL (DENSE)	320-700mm

**ASPHALT CORES**

NO.	TOP LIFT	BOTTOM LIFT	TOTAL ASPHALT THICKNESS
AC-01	30mm	70mm	100mm
AC-02	35mm	55mm	90mm

**LEGEND**

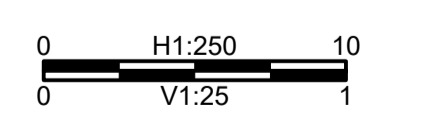
	FULL DEPTH MILLING AND PAVING
	FULL DEPTH ROAD RECONSTRUCTION
	CONCRETE SIDEWALK - 100mm THICK CONCRETE C/W 100mm GRANULAR BASE AS PER COQ-C9A

- SURVEY CONTROL:**
- THE SURVEY IS ON A LOCAL GROUND COORDINATE SYSTEM.
  - TO CONVERT TO NAD83 UTM COORDINATES, MULTIPLY BY THE COMBINED SCALE FACTOR OF 0.999987 ABOUT POINT 0+0.
  - SURVEY ELEVATIONS ARE DERIVED FROM G.P.S. OBSERVATIONS OF SURVEY NAIL, ELEV. = 23.25m, LOCATED ON SIDEWALK IN FRONT OF #2918 ATLANTIC AVENUE. DATUM IS CANADIAN VERTICAL DATUM OF 1983 (CVD83).

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Edge of pavement	Hydrant	Sanitary service
Watermain and valve	Water air valve	Sanitary cleanout
Drainage sewer, MH	Water blowoff	Utility pole (joint pole)
Drainage ditch	Water service	Utility pole with light
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, dovit
Sanitary foremain	Catch basin, side inlet	Streetlight, post top
Gasmain and valve	Catch basin, round	Comb signal pole
Hydro duct, MH	Drainage service	Drainage signal pole
Telephone duct, MH	Drainage cleanout	Traffic signal post

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SCALE HORIZ. 1:250 SCALE VERT. 1:25

SHEET 02 OF 07

ENG PROJECT NUMBER 2111-06307-00

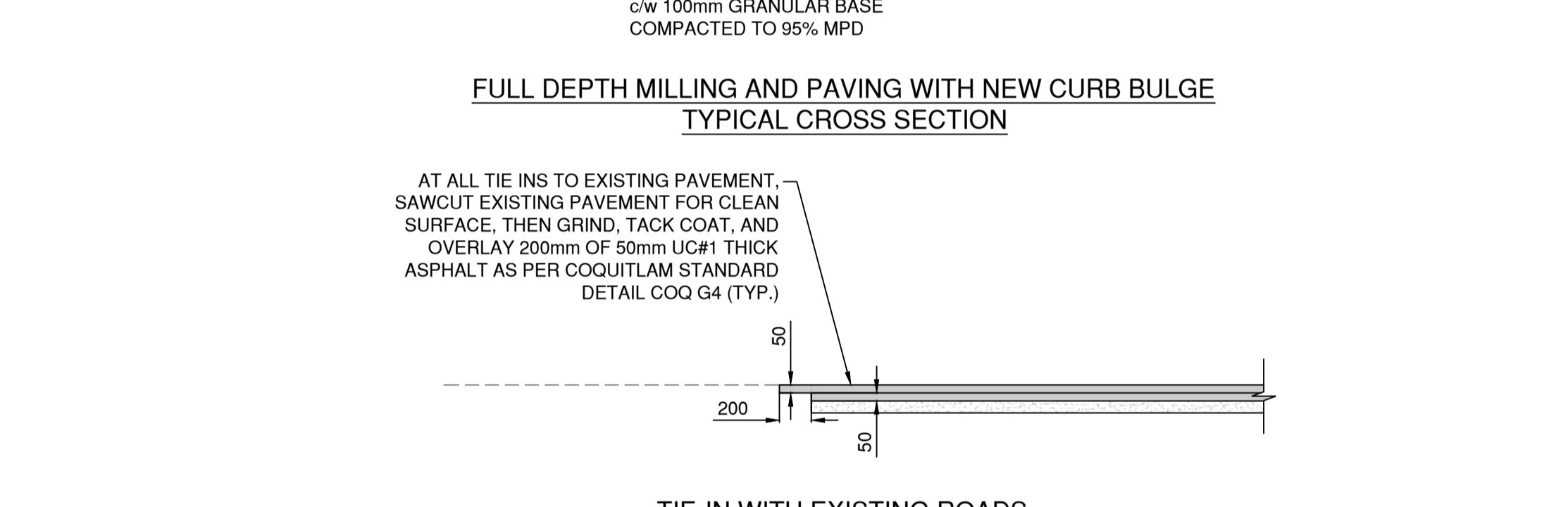
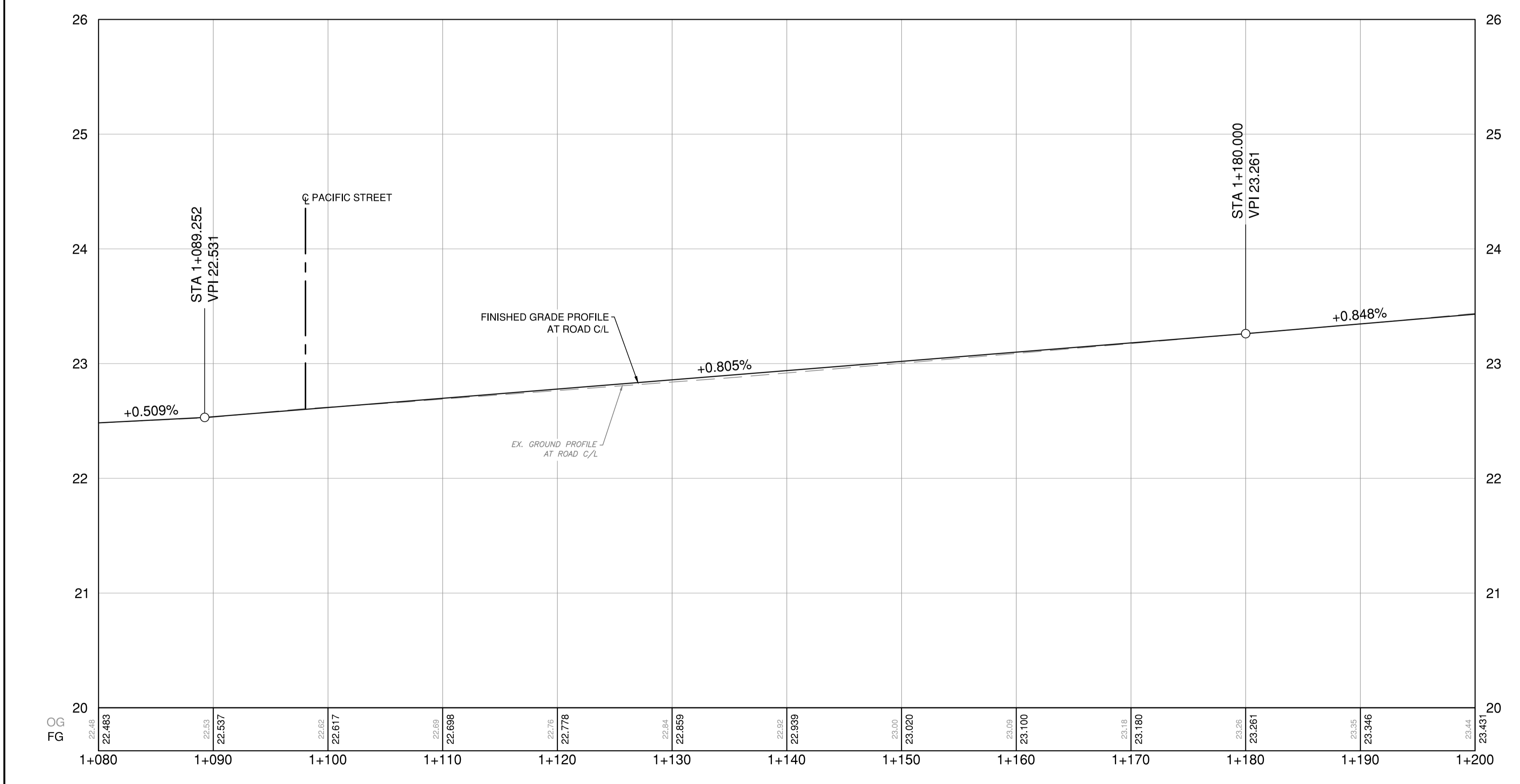
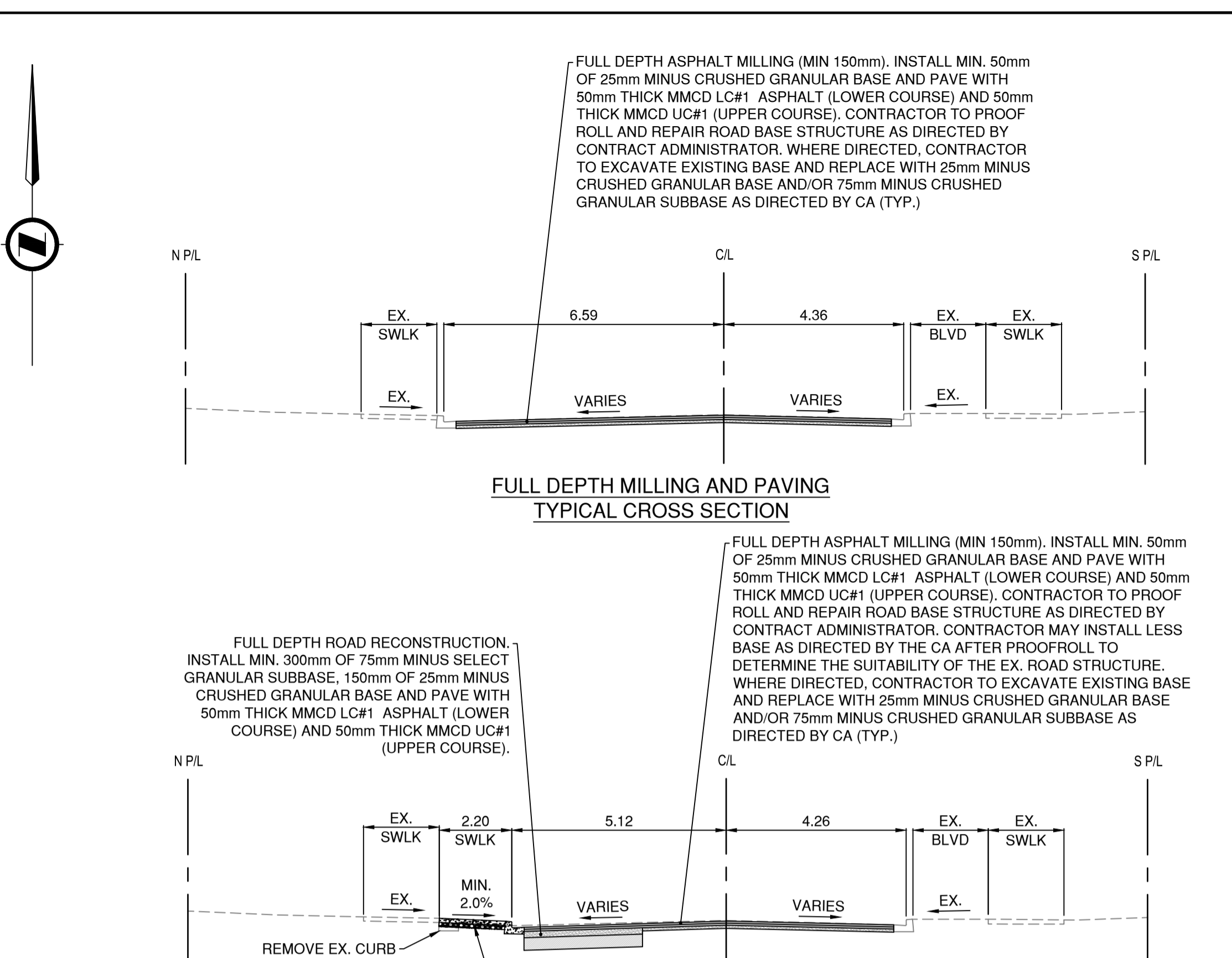
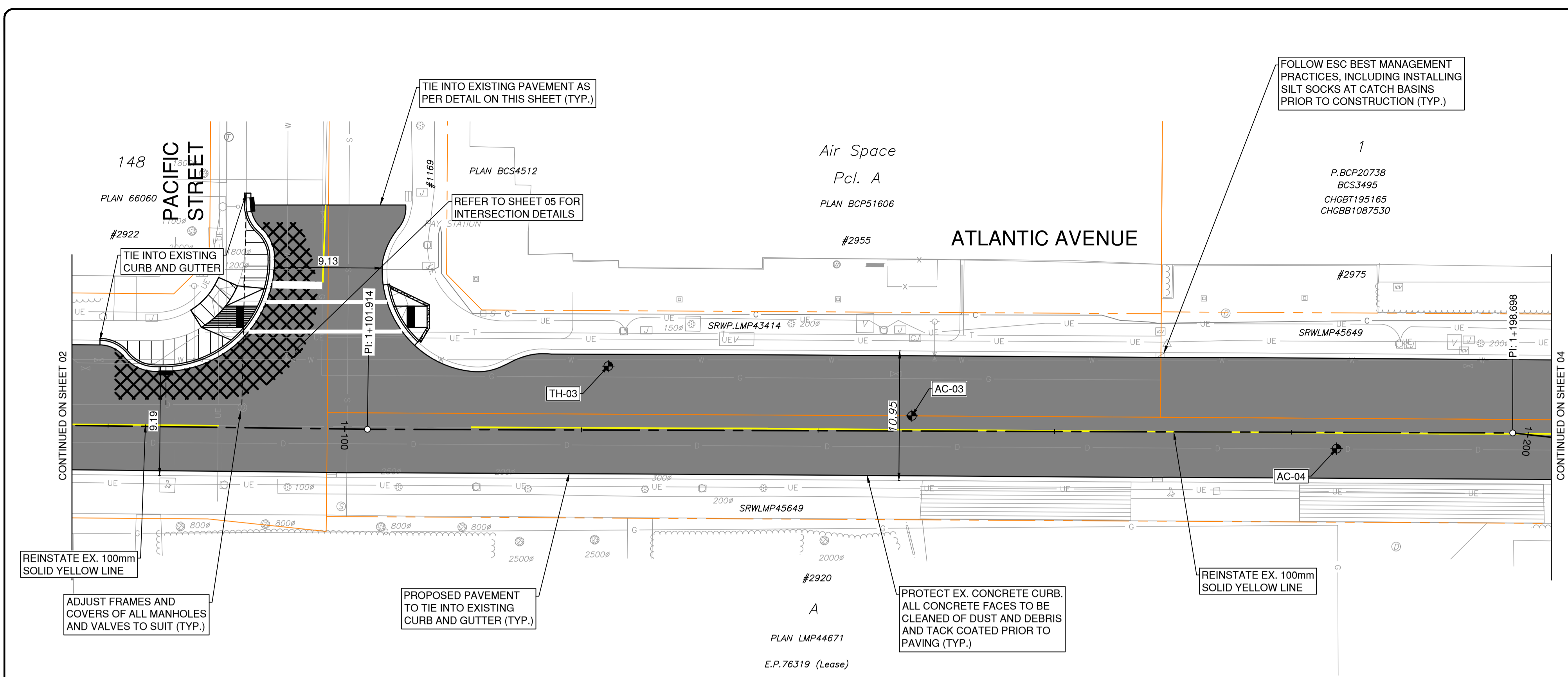
PROJECT CURB EXTENSION AND PAVEMENT REHABILITATION  
ATLANTIC AVENUE

DESCRIPTION ROADWORKS  
ATLANTIC AVENUE - STA. 0+977 TO STA. 1+080

File: 06307-C0-100

DATE: 2024-02-22, 16:38 FILE: X:\2111-06307-00\Coq-Atlantic Ave Curb Extension and Pavement Rehab\07\_DRAWINGS\01\_Sheets\06307-C0-100.dwg





**TEST HOLE - 03**

DESCRIPTION	LAYER THICKNESS
ASPHALTIC CONCRETE	0-80mm
GRAY SAND AND GRAVEL	80-200mm
BROWN SAND AND GRAVEL WITH TRACE SILT AND SOME COBBLES	200mm-1m

**ASPHALT CORES**

NO.	TOP LIFT	BOTTOM LIFT	TOTAL ASPHALT THICKNESS
AC-03	-	-	60mm
AC-04	20mm	60mm	80mm

**LEGEND**

- FULL DEPTH MILLING AND PAVING
- FULL DEPTH ROAD RECONSTRUCTION
- CONCRETE SIDEWALK - 100mm THICK CONCRETE C/W 100mm GRANULAR BASE AS PER COQ-C9A

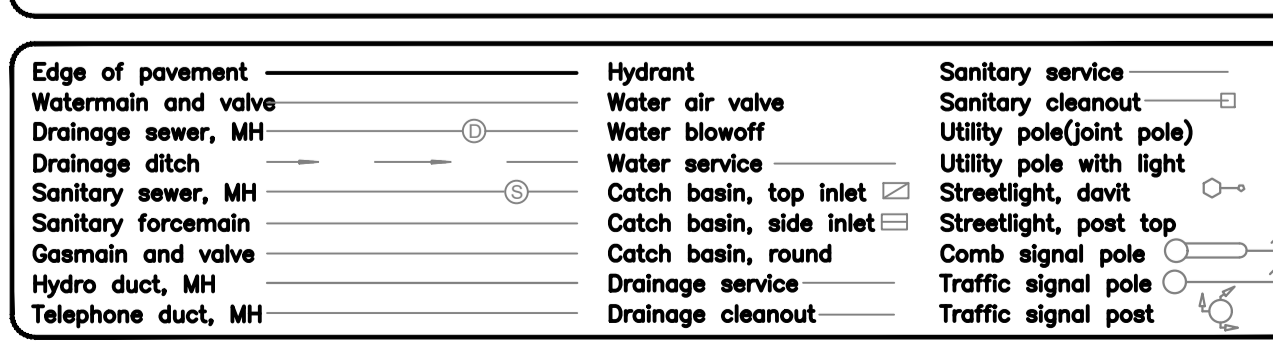
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**Coquitlam**

**McElhanny**

**PERMIT TO PRACTICE**  
McElhanny Ltd.  
Permit Number: 1003299  
Engineer and Geoscientist of BC

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Surrey BC  
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**SCALE**  
HORIZ. 1:250 VERT. 1:25

**SHEET 03 OF 07**

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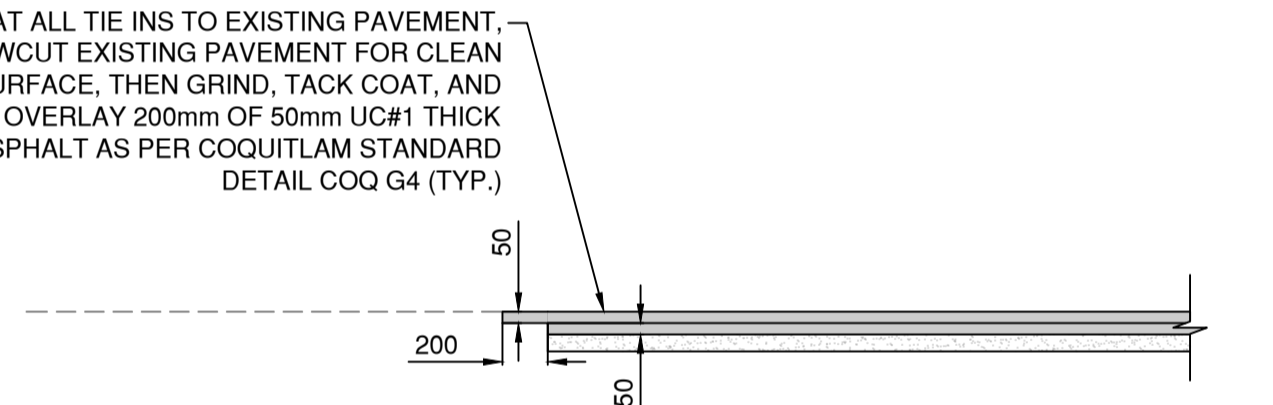
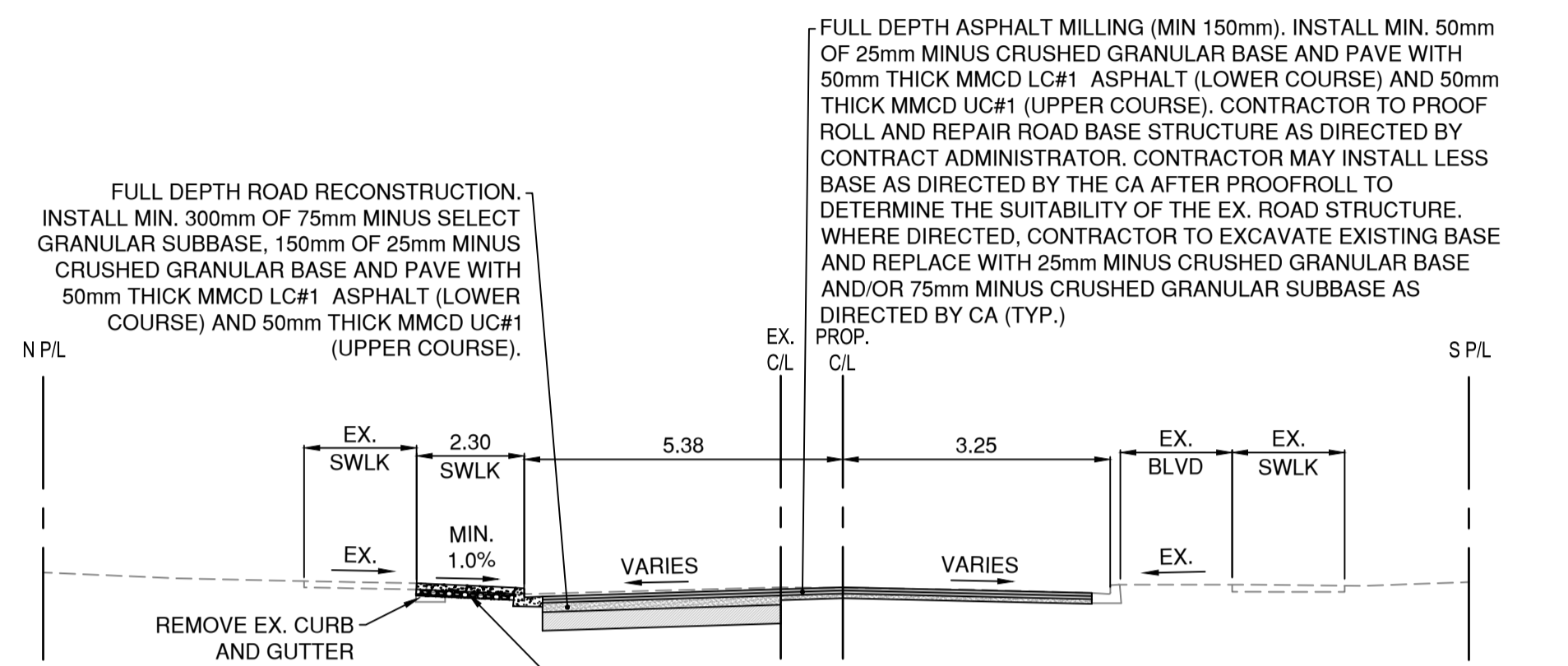
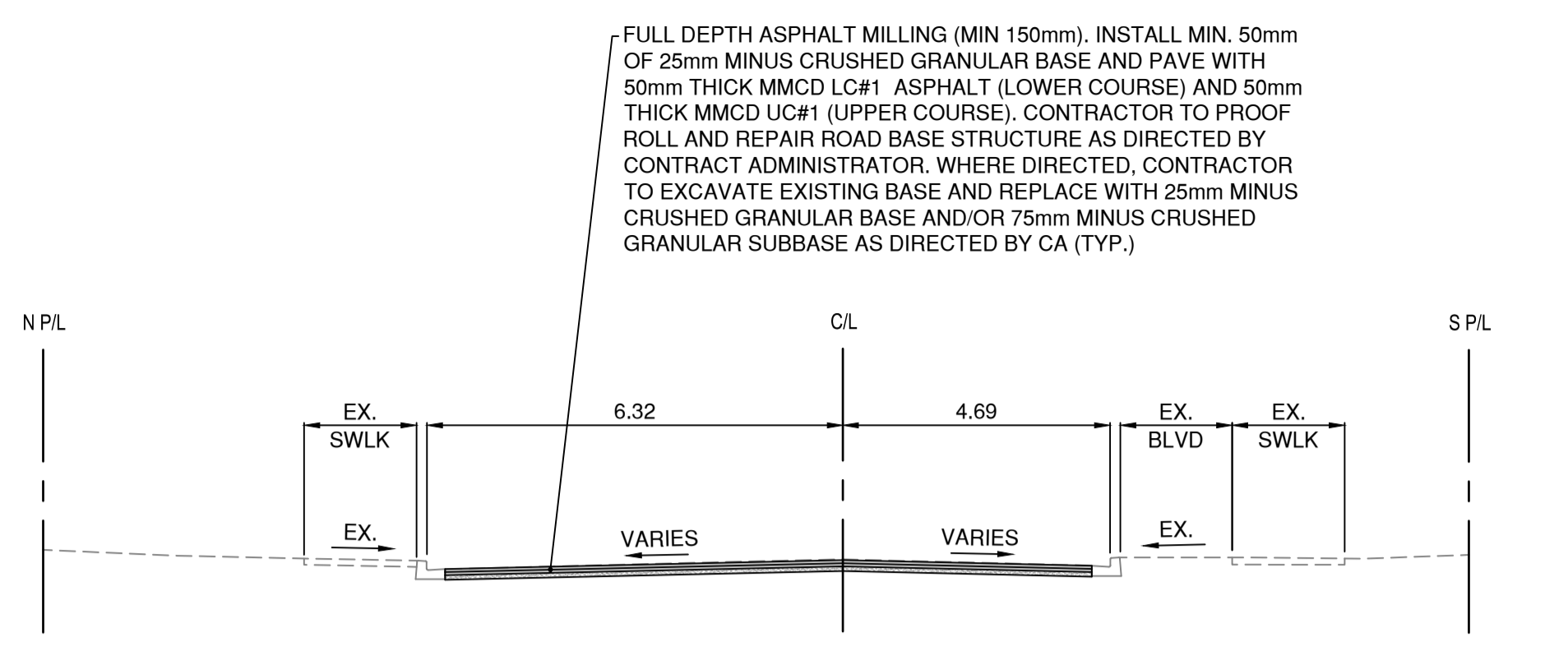
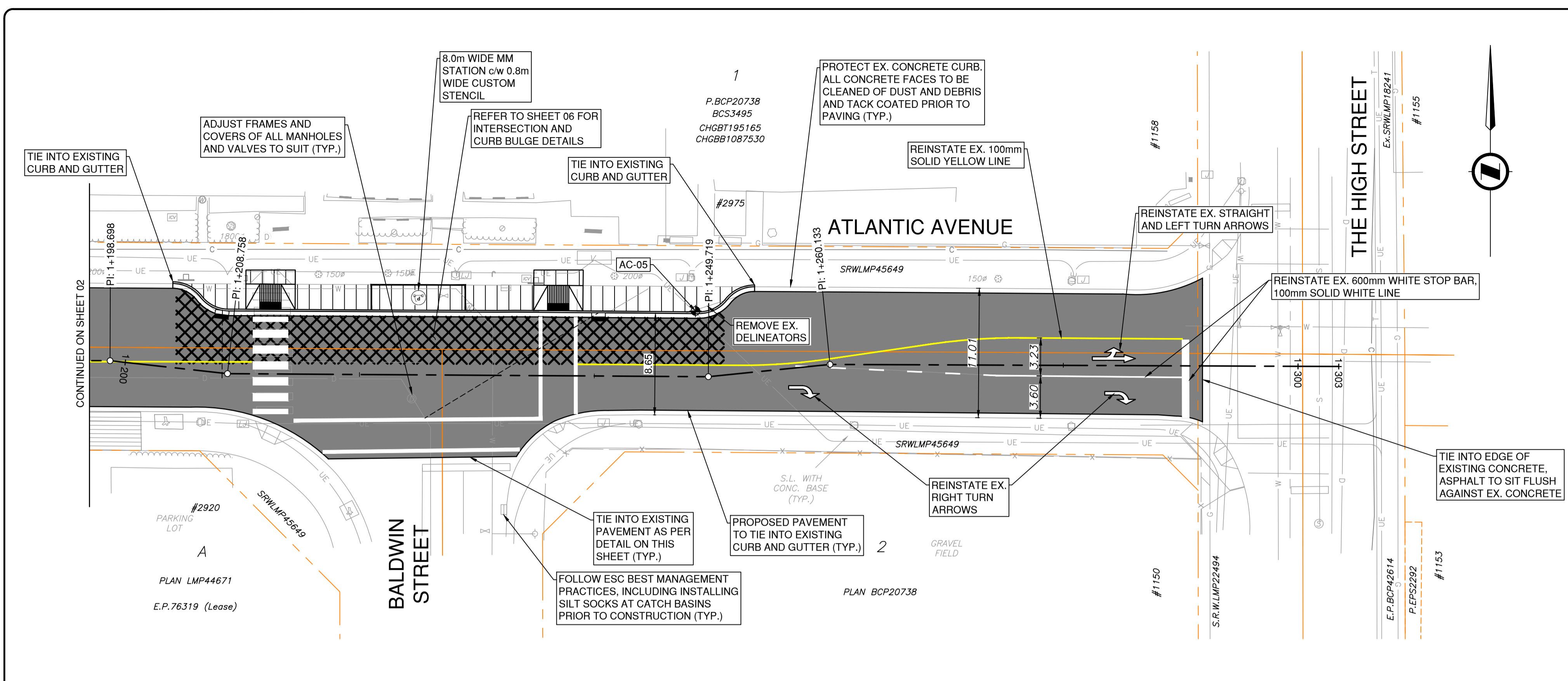
**PROJECT**  
CURB EXTENSION AND PAVEMENT REHABILITATION  
ATLANTIC AVENUE

**DESCRIPTION**  
ROADWORKS  
ATLANTIC AVENUE - STA. 1+080 TO STA. 1+200

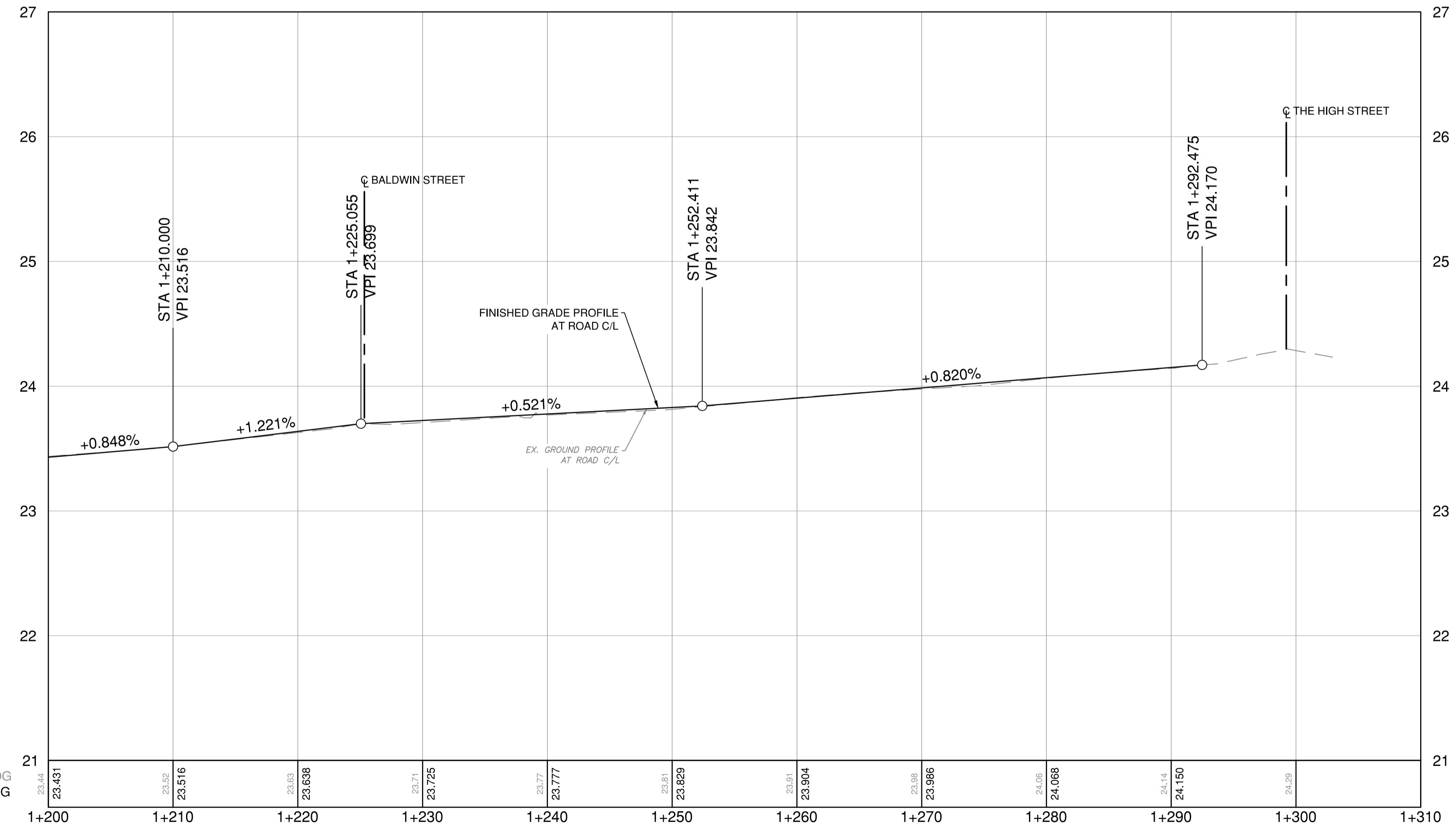
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ASPHALT CORES			
NO.	TOP LIFT	BOTTOM LIFT	TOTAL ASPHALT THICKNESS
AC-05	30mm	60mm	90mm



LEGEND	
[Pattern]	FULL DEPTH MILLING AND PAVING
[Pattern]	FULL DEPTH ROAD RECONSTRUCTION
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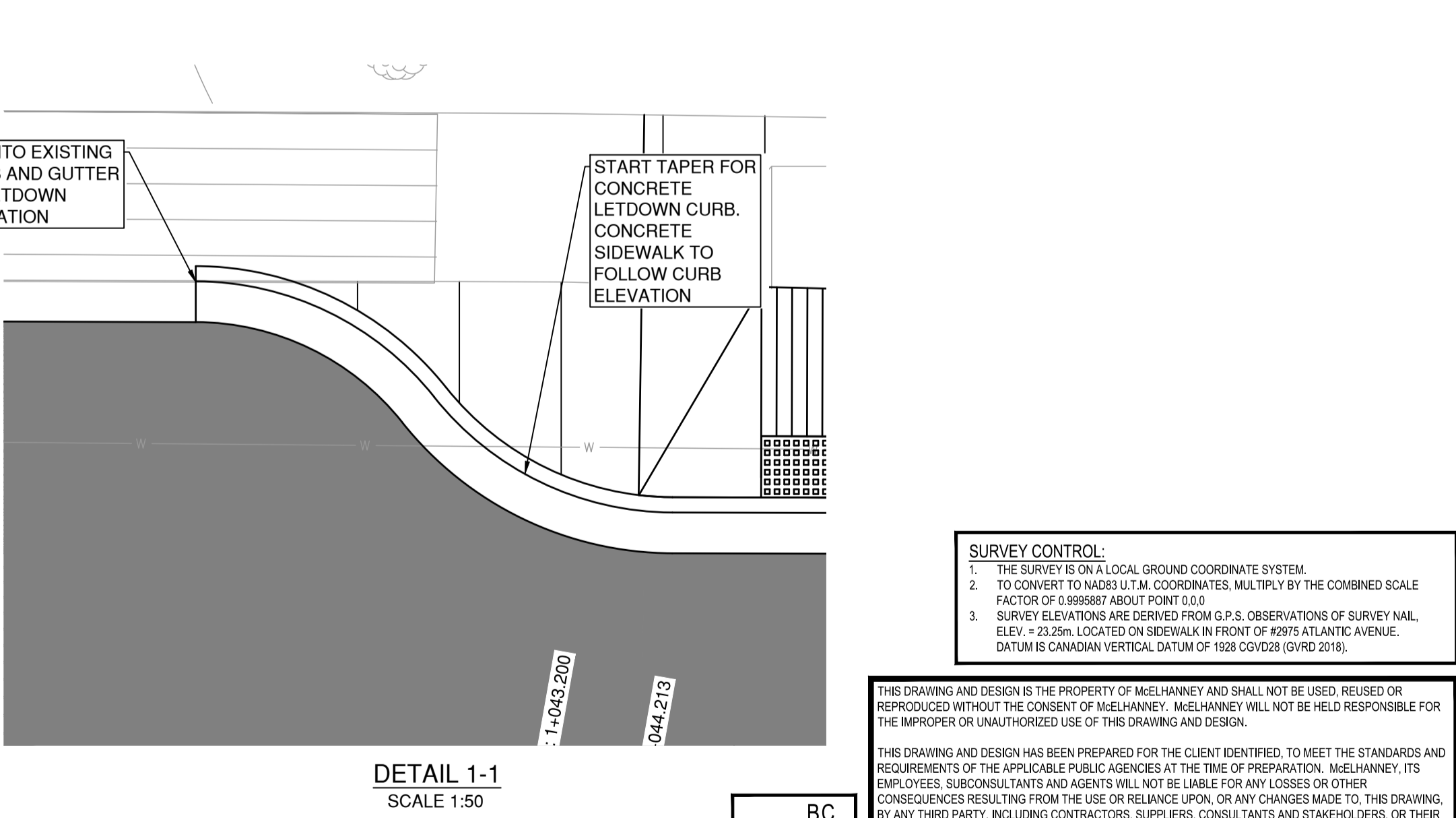
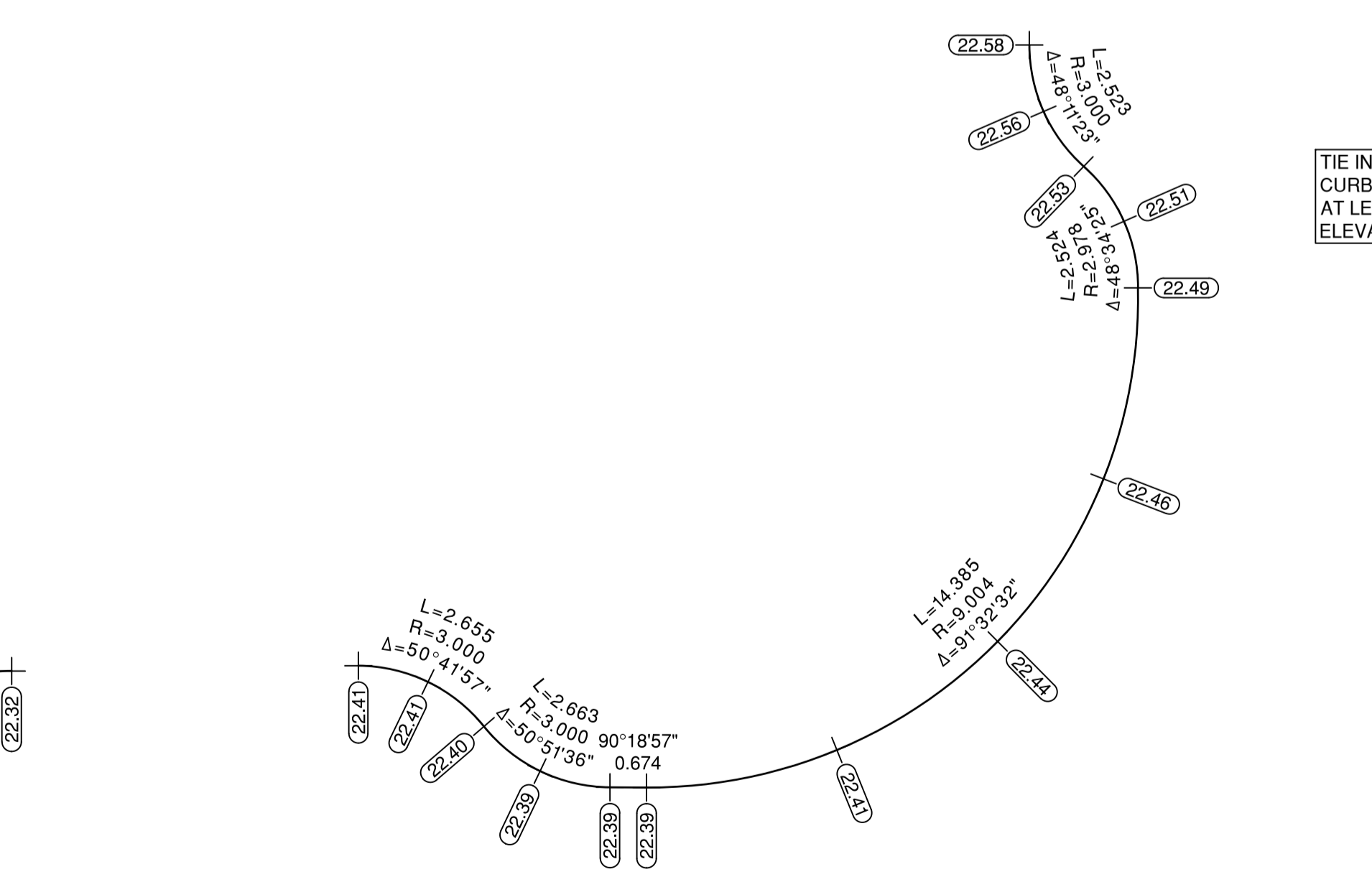
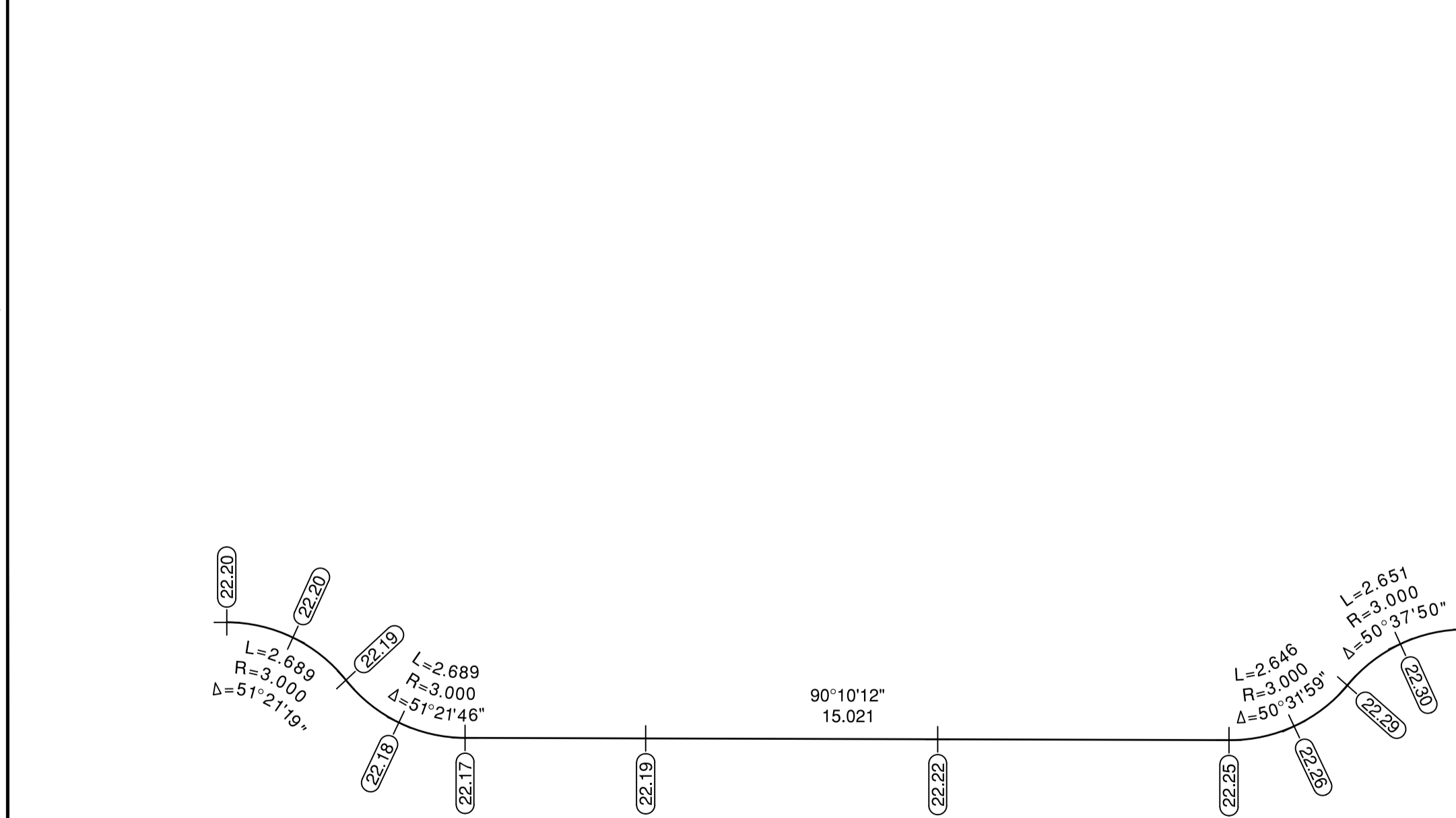
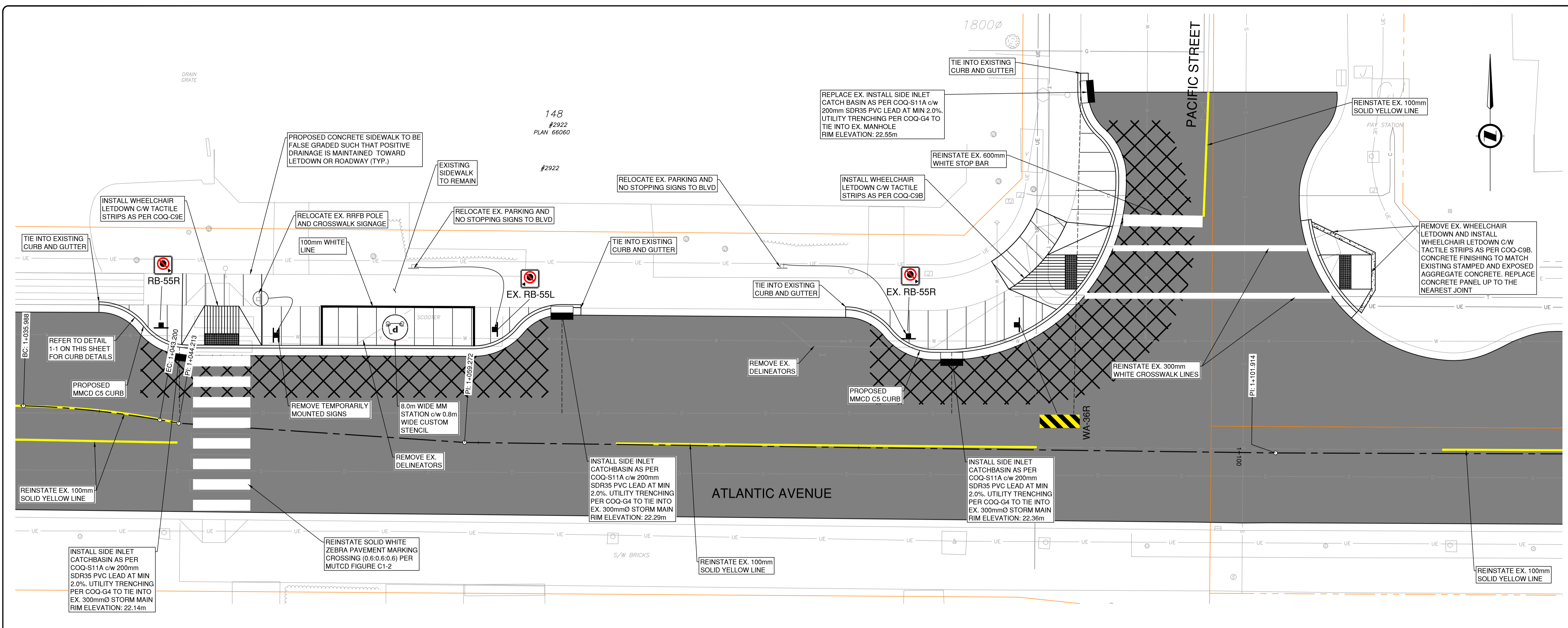
SCALE HORIZ.	SCALE VERT.
1:250	1:25
SHEET 04 OF 07	
ENG PROJECT NUMBER 2111-06307-00	

PROJECT	CURB EXTENSION AND PAVEMENT REHABILITATION
	ATLANTIC AVENUE
DESCRIPTION	ROADWORKS
	ATLANTIC AVENUE - STA. 1+200 TO STA. 1+296

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**CURB BULGE AT MID-BLOCK CROSSING**  
GUTTERLINE ELEVATIONS  
SCALE 1:100

**CURB BULGE AT PACIFIC STREET**  
GUTTERLINE ELEVATIONS  
SCALE 1:100

**DETAIL 1-1**  
SCALE 1:50

**SURVEY CONTROL:**

- THE SURVEY IS ON A LOCAL GROUND COORDINATE SYSTEM.
- TO CONVERT TO NAD83 UTM COORDINATES, MULTIPLY BY THE COMBINED SCALE FACTOR OF 0.999987 ABOUT POINT 0.0.
- SURVEY ELEVATIONS ARE DERIVED FROM G.P.S. OBSERVATIONS OF SURVEY MARK. ELEV. = 23.25m. LOCATED ON SIDEWALK IN FRONT OF #275 ATLANTIC AVENUE. DATUM IS CANADIAN VERTICAL DATUM OF '82 (CVD82) (CNS 2015).

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**Legend:**

- Edge of pavement
- Watermain and valve
- Drainage sewer, MH
- Drainage ditch
- Sanitary sewer, MH
- Sanitary foremain
- Gasmain and valve
- Hydro duct, MH
- Telephone duct, MH
- Hydrant
- Water air valve
- Water blowoff
- Water service
- Catch basin, top inlet
- Catch basin, side inlet
- Catch basin, round
- Drainage service
- Drainage cleanout
- Sanitary service
- Sanitary cleanout
- Utility pole (joint pole)
- Utility pole with light
- Streetlight, dovetail
- Streetlight, post top
- Comb signal pole
- Traffic signal pole
- Traffic signal post

**STAMP**

Approved Sealed

NO.	DATE	BY	REVISIONS	ENG.
B	2024.02.22	JN	ISSUED FOR TENDER	AG
PA	2023.12.12	HL	PRELIMINARY DESIGN SUBMISSION	AG

**DESIGN BY** HL  
**DATE** December 12, 2023

**DRAWN BY** MWJ  
**DATE** December 12, 2023

**CHECKED BY** AG  
**DATE** December 12, 2023

**APPROVED BY** MH  
**DATE** December 12, 2023

**Coquitlam**

**McElhanny**

**PERMIT TO PRACTICE**  
McElhanny Ltd.  
PERMIT NUMBER: 1003299  
Engineer and Architect of BC

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Surrey BC  
Canada V3T 5X3  
T 604 596 0391

**SCALE** 1:100  
**HORIZ.** 1:100  
**VERT.** N/A

**SHEET** 05 OF 07

**ENG PROJECT NUMBER** 2111-06307-00

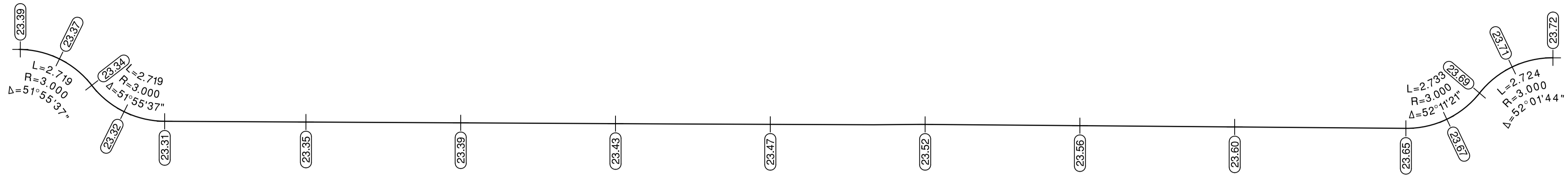
**PROJECT** CURB EXTENSION AND PAVEMENT REHABILITATION  
**ATLANTIC AVENUE**

**DESCRIPTION** ROADWORKS  
**ATLANTIC AVENUE AND PACIFIC STREET INTERSECTION**

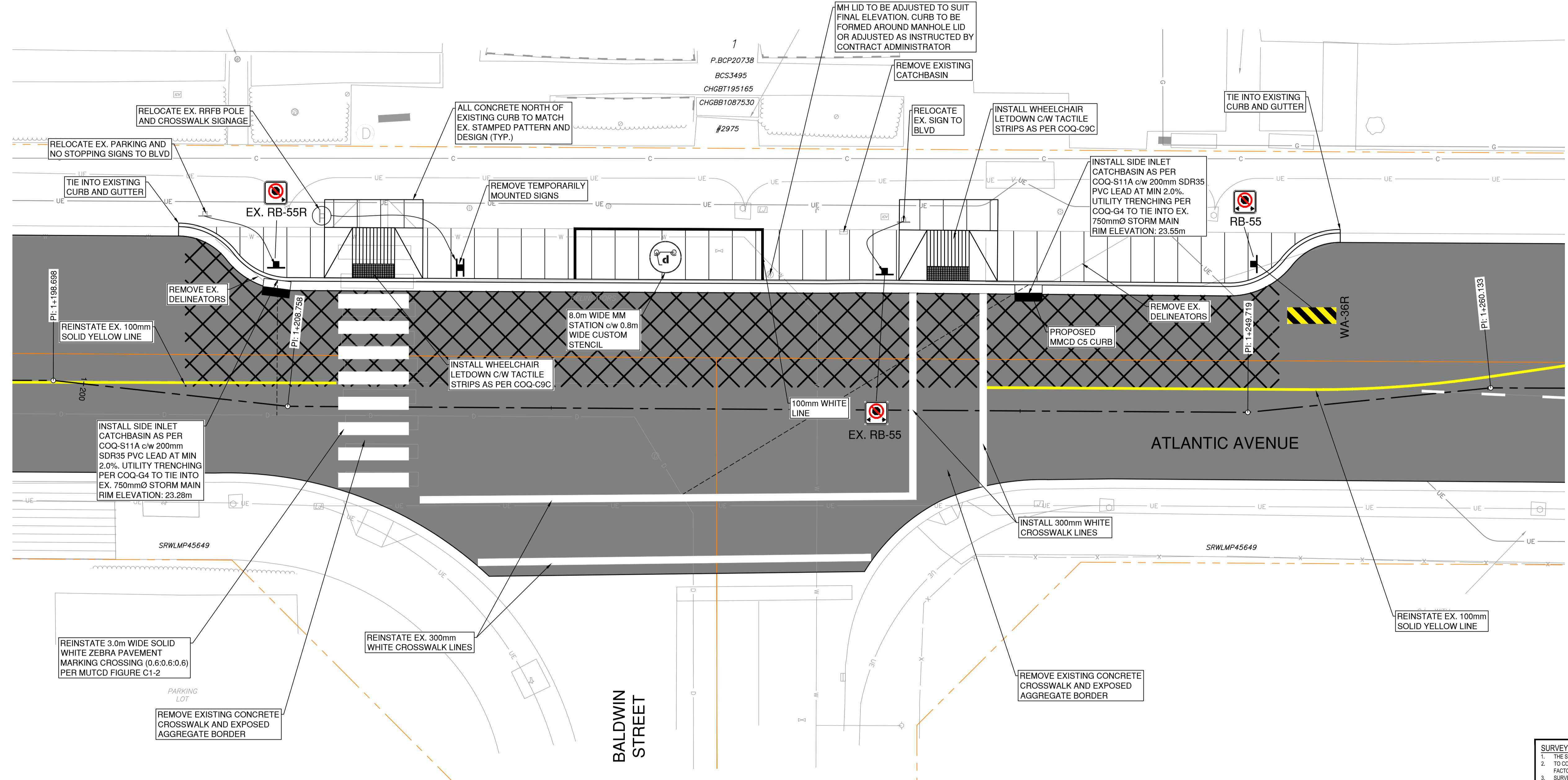
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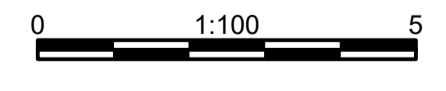
**CURB BULGE GUTTERLINE ELEVATIONS**  
SCALE 1:100



**SURVEY CONTROL:**  
 1. THE SURVEY IS ON A LOCAL GROUND COORDINATE SYSTEM.  
 2. TO CONVERT TO NAD83 UTM COORDINATES, MULTIPLY BY THE COMBINED SCALE FACTOR OF 0.999987 ABOUT POINT 0.0.  
 3. SURVEY ELEVATIONS ARE DERIVED FROM G.P.S. OBSERVATIONS OF SURVEY NAID. ELEV. = 23.25m LOCATED ON SIDEWALK IN FRONT OF #2975 ATLANTIC AVENUE. DATUM IS CANADIAN VERTICAL DATUM OF 1983 (CVD83).

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Edge of pavement	Hydrant	Sanitary service
Watermain and valve	Water air valve	Sanitary cleanout
Drainage sewer, MH	Water blowoff	Utility pole (joint pole)
Drainage ditch	Water service	Utility pole with light
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, dovetail
Sanitary foremain	Catch basin, side inlet	Streetlight, post top
Gasmain and valve	Catch basin, round	Comb signal pole
Hydro duct, MH	Drainage service	Traffic signal pole
Telephone duct, MH	Drainage cleanout	Traffic signal post

STAMP  
Approved Sealed

NO.	DATE	BY	REVISIONS	ENG.
B	2024.02.22	JN	ISSUED FOR TENDER	AG
PA	2023.12.12	HL	PRELIMINARY DESIGN SUBMISSION	AG

DESIGN BY	DATE
HL	December 12, 2023
DRAWN BY	DATE
MWJ	December 12, 2023
CHECKED BY	DATE
AG	December 12, 2023
APPROVED BY	DATE
MH	December 12, 2023

**Coquitlam** **McElhanny**

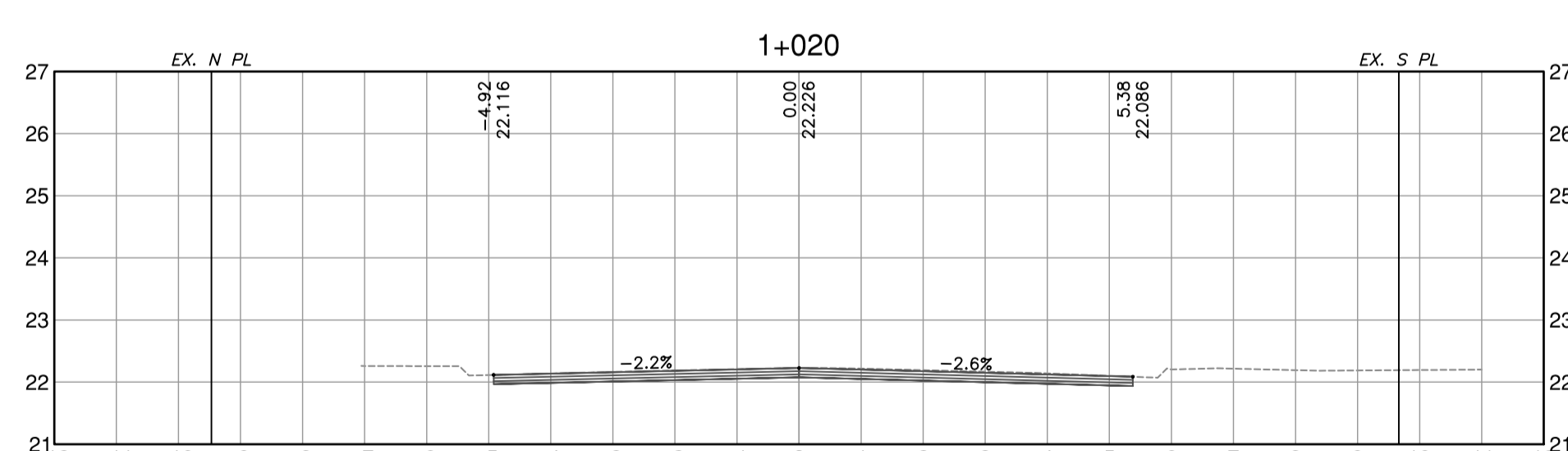
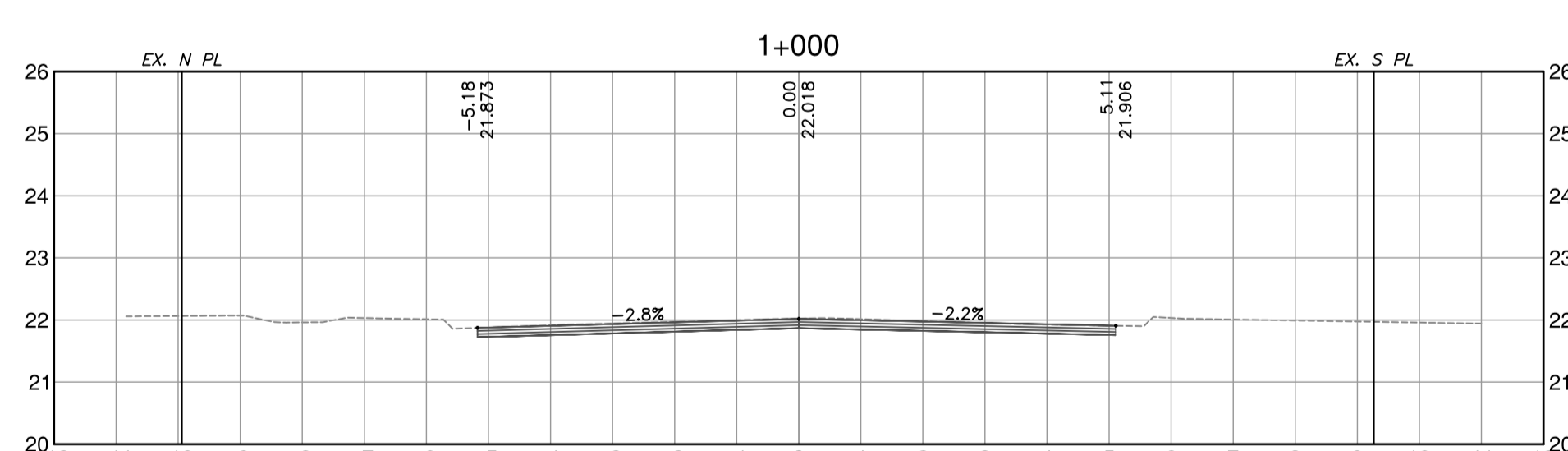
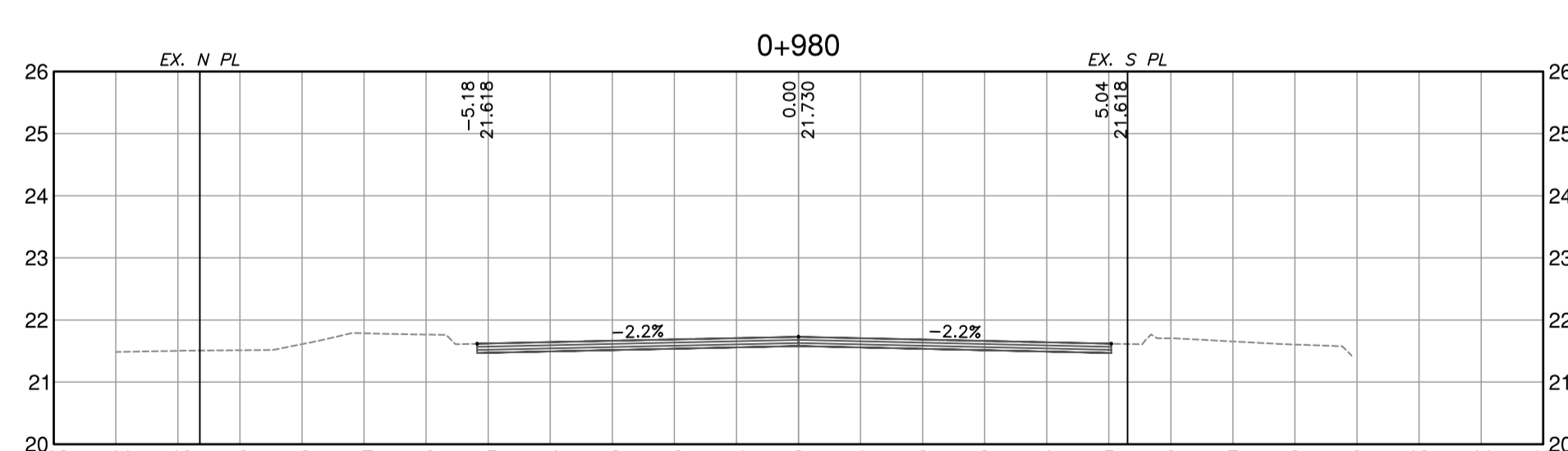
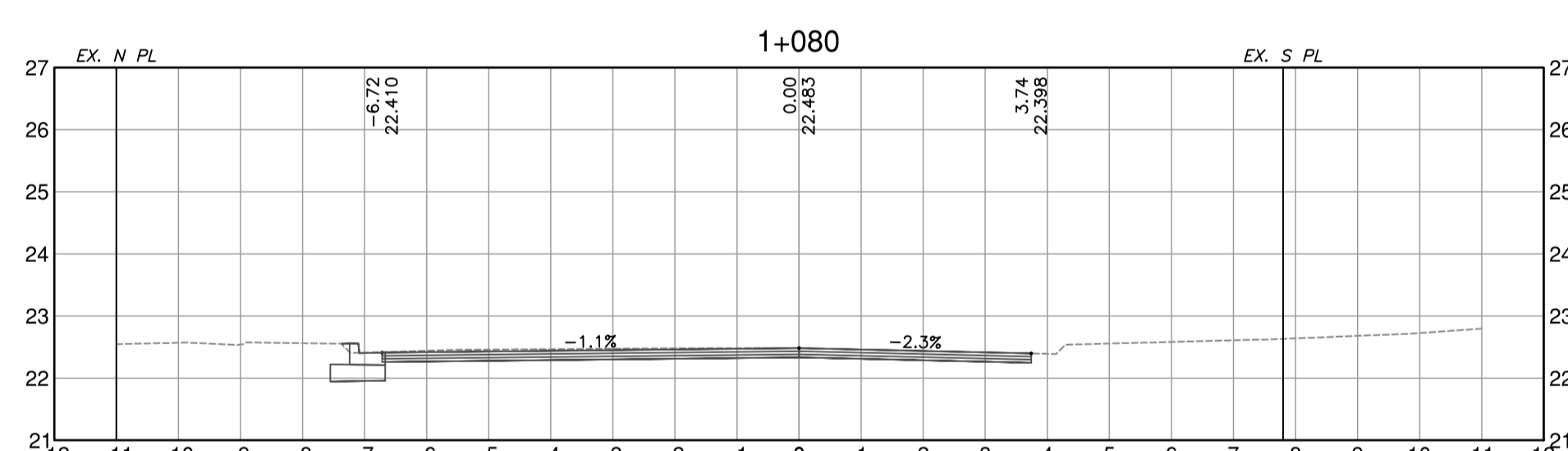
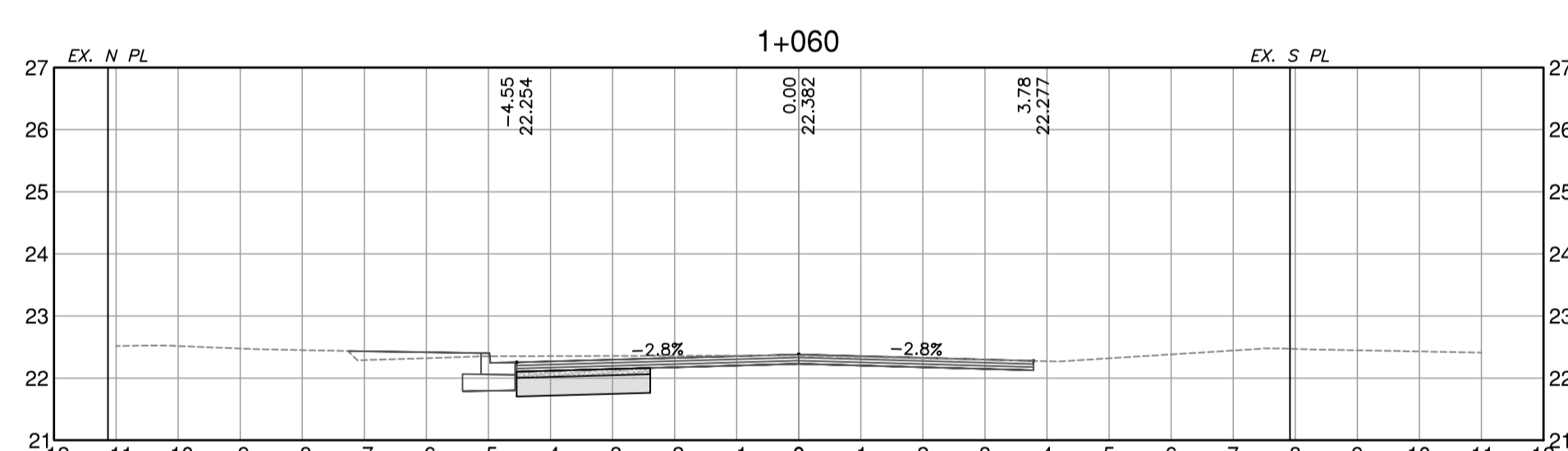
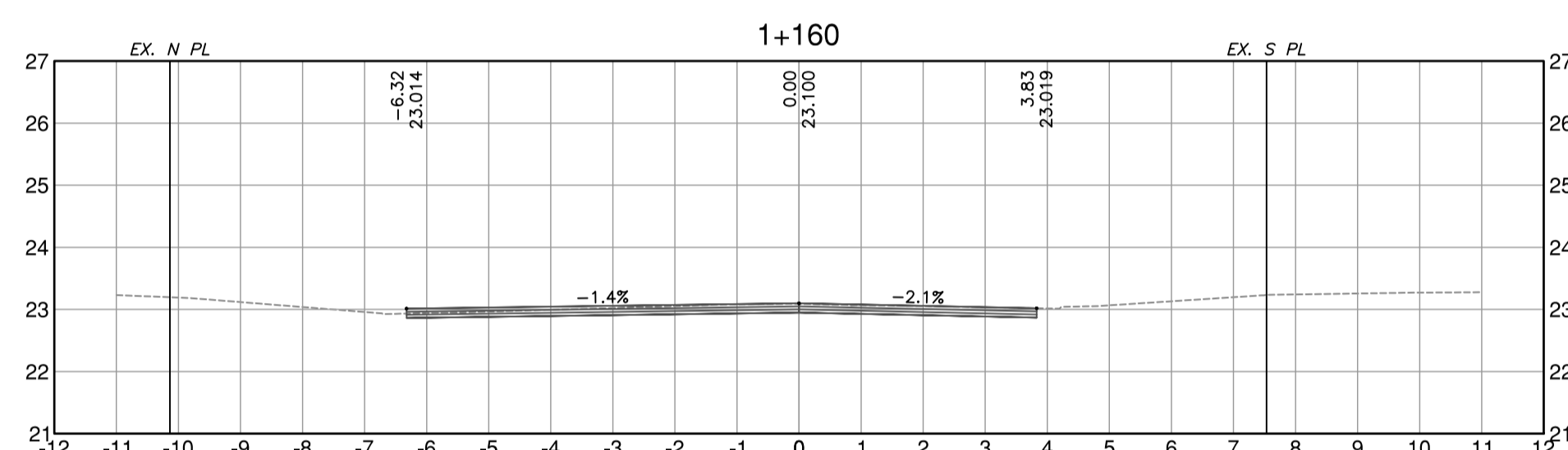
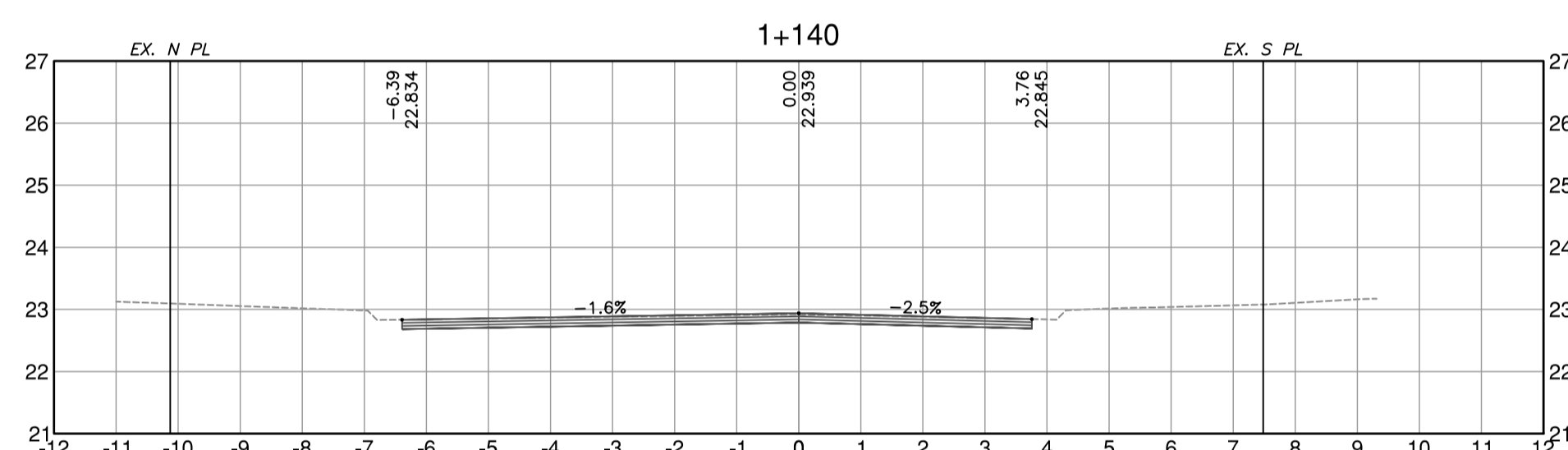
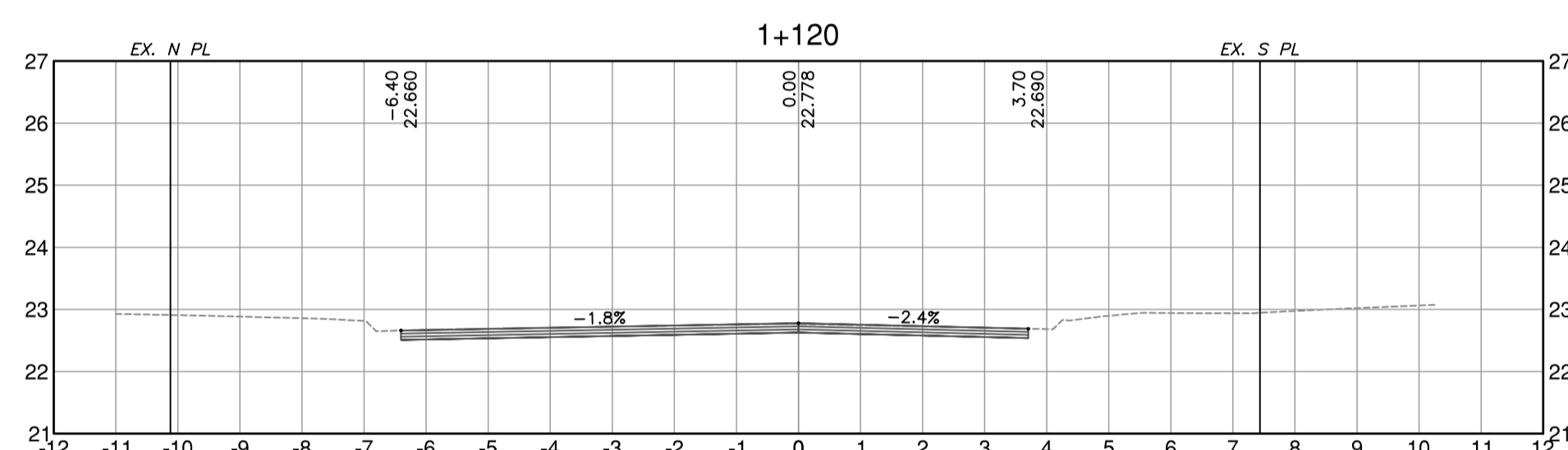
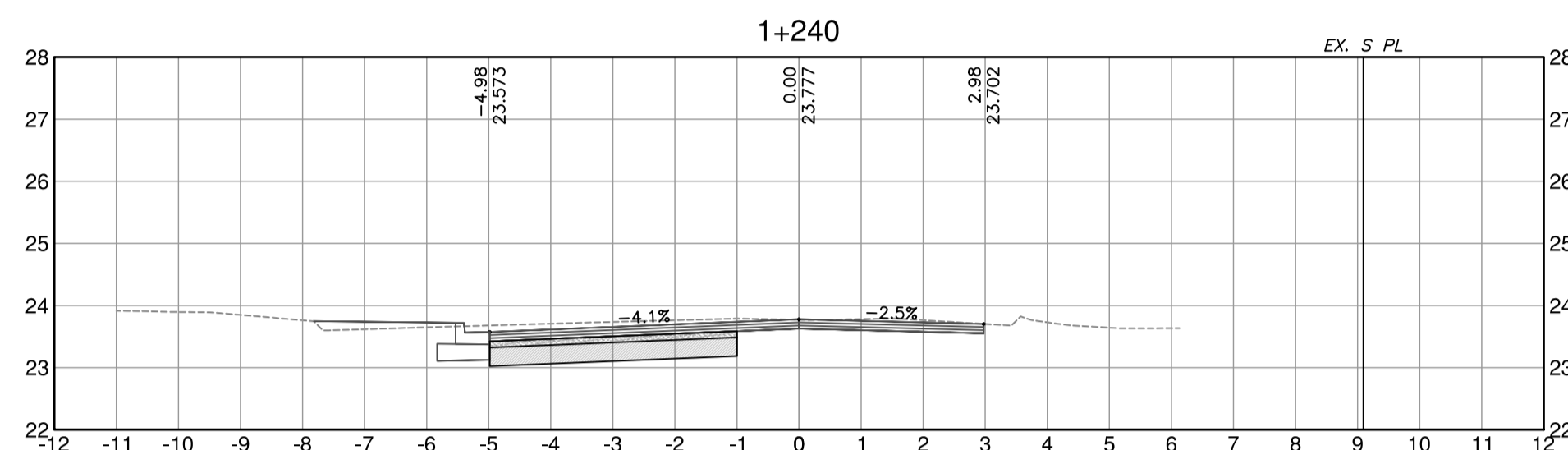
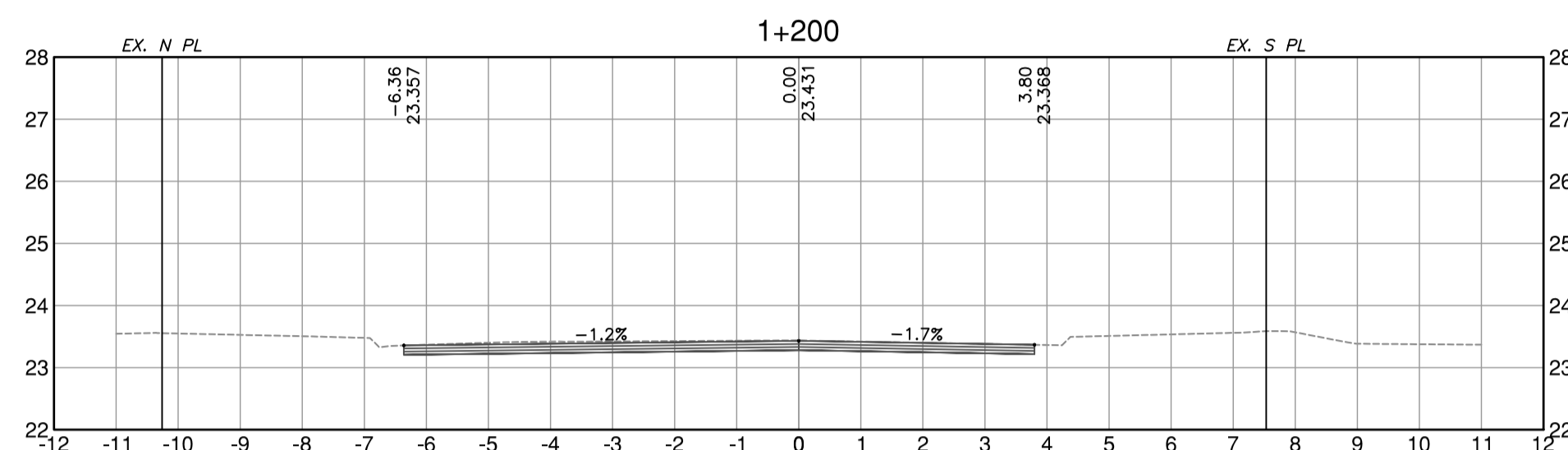
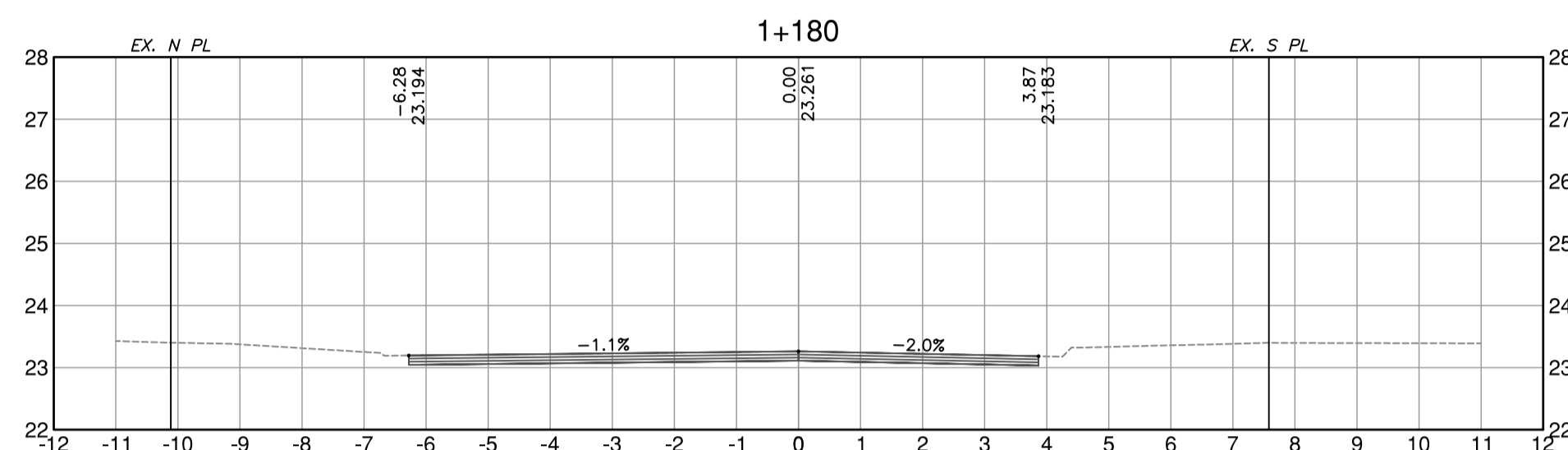
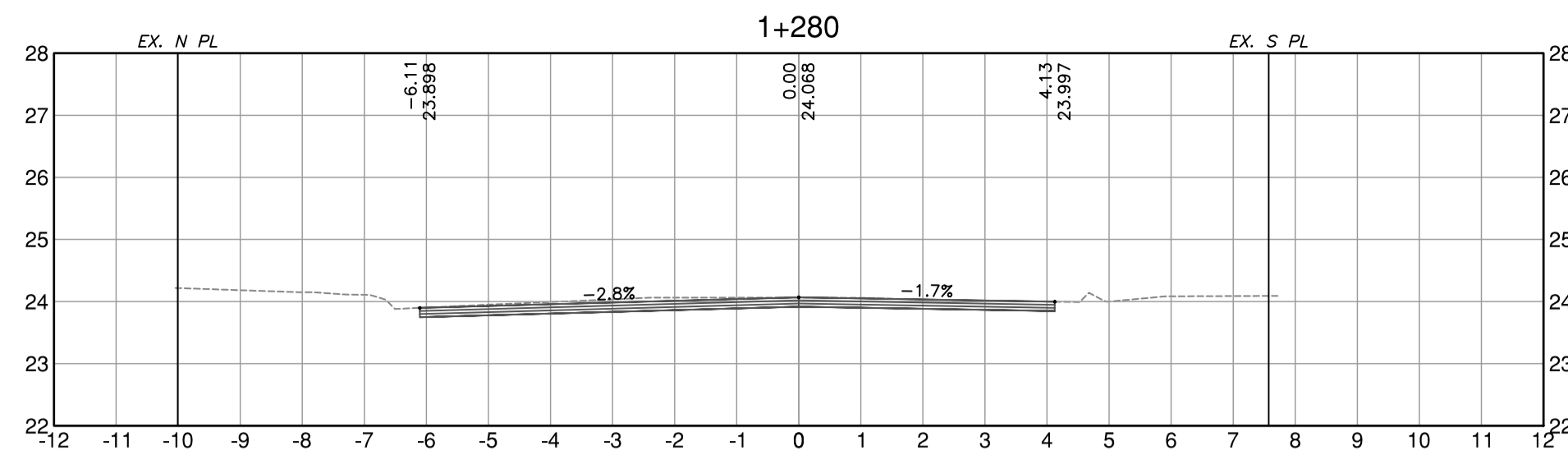
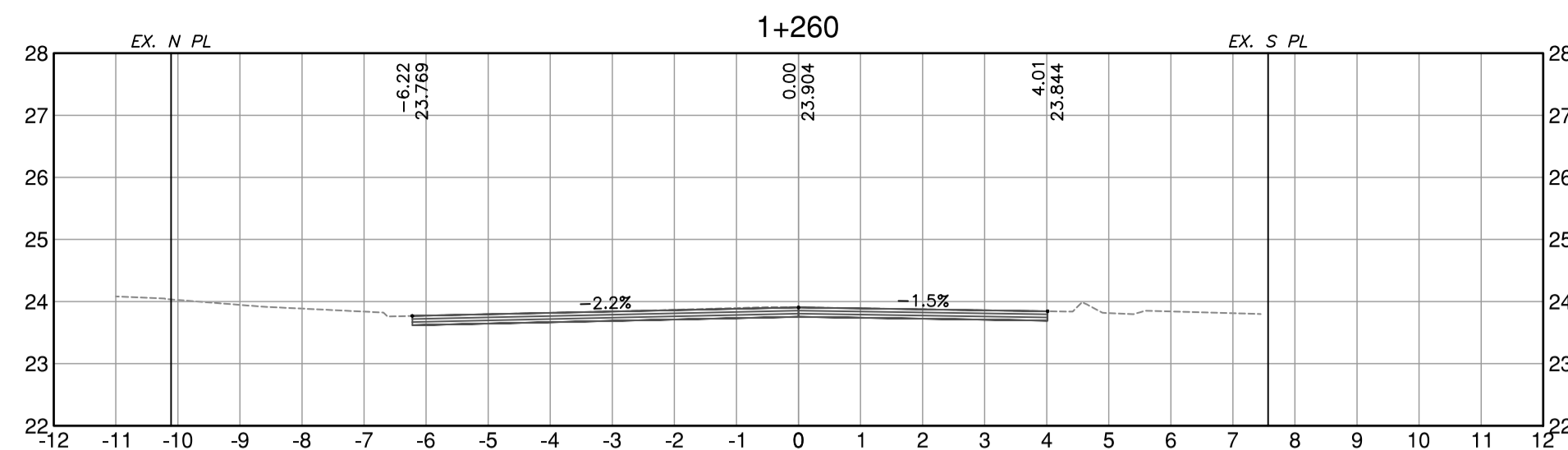
PERMIT TO PRACTICE  
McElhanny Ltd.  
PERMIT NUMBER: 1002299  
Engineer and Geoscientist of BC

Suite 2300  
13450 102nd Avenue  
Surrey BC  
Canada V3T 5X3  
T 604 596 0391

SCALE HORIZ. 1:100 SCALE VERT. N/A  
 SHEET 06 OF 07  
 ENG PROJECT NUMBER 2111-06307-00

PROJECT CURB EXTENSION AND PAVEMENT REHABILITATION  
 ATLANTIC AVENUE  
 DESCRIPTION ROADWORKS  
 ATLANTIC AVENUE AND BALDWIN STREET INTERSECTION  
 File: 06307-CO-100\_INT

DATE: 2024-02-22, 16:38 FILE: X:\211106307-00\CoCoq-Atlantic Ave Curb Extension and Pavement Rehab07\_Drawing06307-00-100\_INT.dwg



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Edge of pavement	Hydrant	Sanitary service
Watermain and valve	Water air valve	Sanitary cleanout
Drainage sewer, MH	Water blowoff	Utility pole (joint pole)
Drainage ditch	Water service	Utility pole with light
Sanitary sewer, MH	Catch basin, top inlet	Streetlight, dovetail
Sanitary foremain	Catch basin, side inlet	Streetlight, post top
Gasmain and valve	Catch basin, round	Comb signal pole
Hydro duct, MH	Drainage service	Traffic signal pole
Telephone duct, MH	Drainage cleanout	

STAMP  
Approved Sealed

NO.	DATE	BY	REVISIONS	ENG.
B	2024.02.22	JN	ISSUED FOR TENDER	AG
PA	2023.12.12	HL	PRELIMINARY DESIGN SUBMISSION	AG

DESIGN BY	DATE
HL	December 12, 2023
DRAWN BY	DATE
MWJ	December 12, 2023
CHECKED BY	DATE
AG	December 12, 2023
APPROVED BY	DATE
MH	December 12, 2023

**Coquitlam** **McElhanny**

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SCALE HORIZ. 1:100 SCALE VERT. 1:100  
SHEET 07 OF 07  
ENG PROJECT NUMBER 2111-06307-00

PROJECT CURB EXTENSION AND PAVEMENT REHABILITATION  
ATLANTIC AVENUE  
DESCRIPTION CROSS SECTIONS  
ATLANTIC AVENUE - STA. 0+980 TO STA. 1+280  
File: 06307-C0-200

DATE: 2024-02-22, 16:38 FILE: X:\2111\2111-06307-00\Coq-Atlantic Ave Curb Extension and Pavement Rehab\07\_DRAWINGS\01\_Sheets\06307-C0-200.dwg