

Parcs
Canada

Parks
Canada



Cape Breton Highlands National Park

North Mountain - Pavement Rehabilitation

Sta. 38+250 to Sta. 47+224.12
8.97 kilometers

Project No. 671

DRAWING LIST

DWG . NO.	TITLE	DATE
C1	COVER SHEET	2017 03 20
C2	DRAWING LIST AND GENERAL NOTES	2017 03 20
C3	KEY PLAN	2017 03 20
C4	PLAN, STATION 38+240 TO 38+840	2017 03 20
C5	PLAN, STATION 38+840 TO 39+440	2017 03 20
C6	PLAN, STATION 39+440 TO 40+040	2017 03 20
C7	PLAN, STATION 40+040 TO 40+640	2017 03 20
C8	PLAN, STATION 40+640 TO 41+240	2017 03 20
C9	PLAN & PROFILE, STATION 41+240 TO 41+540	2017 03 20
C10	PLAN & PROFILE, STATION 41+540 TO 41+840	2017 03 20
C11	PLAN & PROFILE, STATION 41+840 TO 42+140	2017 03 20
C12	PLAN, STATION 42+140 TO 42+740	2017 03 20
C13	PLAN, STATION 42+740 TO 43+340	2017 03 20
C14	PLAN, STATION 43+340 TO 43+940	2017 03 20
C15	PLAN, STATION 43+940 TO 44+240	2017 03 20
C16	PLAN & PROFILE, STATION 44+240 TO 44+540	2017 03 20
C17	PLAN & PROFILE, STATION 44+540 TO 44+840	2017 03 20
C18	PLAN & PROFILE, STATION 44+840 TO 45+140	2017 03 20
C19	PLAN & PROFILE, STATION 45+140 TO 45+440	2017 03 20
C20	PLAN, STATION 45+440 TO 46+040	2017 03 20
C21	PLAN, STATION 46+040 TO 46+640	2017 03 20
C22	PLAN, STATION 46+640 TO 47+224.120	2017 03 20
C23	ALIGNMENT GEOMETRY I	2017 03 20
C24	ALIGNMENT GEOMETRY II	2017 03 20
C25	ALIGNMENT GEOMETRY III	2017 03 20
C26	DETAIL SHEET I	2017 03 20
C27	DETAIL SHEET II	2017 03 20
C28	CULVERT CROSS SECTIONS I	2017 03 20
C29	CULVERT CROSS SECTIONS II	2017 03 20

GENERAL

- COORDINATES SHOWN HERE ON ARE REFERENCED TO THE NAD83 (CSRS 1997) UTM ZONE 20, CGVD28 COORDINATE SYSTEM.
- ELEVATIONS ARE EXPRESSED IN METRES.
- EXISTING GROUND ELEVATIONS ARE BASED ON FIELD SURVEY DATA COLLECTED BY WSP GROUP INC. AND LIDAR SURVEY BY PARKS CANADA.
- ALL DIMENSIONS ARE EXPRESSED IN MILLIMETERS UNLESS OTHERWISE NOTED.
- STATIONING IS EXPRESSED IN METRES.
- HORIZONTAL AND VERTICAL GEOMETRY ARE A BEST FIT BASED ON THE 2015 TOPOGRAPHIC SURVEY.
- VERIFY ALL ELEVATIONS AND DIMENSIONS OF EXISTING STRUCTURES AND FEATURES IN THE FIELD PRIOR TO CONSTRUCTION.
- COMPLY WITH ALL REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS BOUND SEPARATELY.

ENVIRONMENTAL

- WORK OPERATIONS SHALL BE CARRIED OUT AT ALL TIMES AS PER PARKS CANADA BMP'S (APPENDIX A).
- USE SILT FENCE AND ALL OTHER APPROPRIATE MEANS TO PREVENT SEDIMENT FROM DISTURBED AREAS FROM ENTERING AND WATERCOURSE. LOCATE AS REQUIRED AND AS DIRECTED.
- MONITOR EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES DURING AND AFTER RAINFALL EVENTS. REPAIR AND REPLACE AS NECESSARY.

FULL-DEPTH COLD MILLED SURFACE CRACK REPAIR NOTES

- AFTER ASPHALT COLD MILLING, THE MILLED SURFACE SHALL BE INSPECTED WITH THE DEPARTMENTAL REPRESENTATIVE TO IDENTIFY AREAS OF UNDERLYING CRACKING THAT MAY REQUIRE FULL-DEPTH CRACK REPAIRS. THESE AREAS WILL BE DEFINED IN THE FIELD AND SHALL BE COLD MILLED FULL DEPTH WITH A MINIMUM 600mm WIDTH. ALL EXISTING ASPHALT EDGES AND SURFACES TO BE ASPHALT TACK COATED BEFORE REINSTATEMENT WITH 50mm LIFTS OF ASPHALT BASE, (TYPE B-HF). DO NOT LEAVE FULL-DEPTH REPAIR AREAS OPEN OVERNIGHT.

CLEARING

- CLEARING LIMIT TO BE TO THE TOP OF THE BACKSLOPE (IN DITCHED AREAS) AND TO THE TOE OF SLOPE (IN EMBANKMENT AREAS).
- DEPARTMENTAL REPRESENTATIVE TO IDENTIFY EXTENTS IN FIELD.

CONTROL POINTS

PT #	NORTHING	EASTING	ELEV	DESC.
250016	5165353.145	652033.943	18.787	NSACS
213854	5190521.627	669595.819	51.277	NSHPN

GUIDE RAIL AND POSTS

- ALL GUIDE POST SHALL BE 200mm x 200mm x 2100mm, UNLESS NOTED OTHERWISE.
- ALL EXISTING GUIDE RAIL AND POSTS TO BE REMOVED AND DISPOSED OF.
- NEW GUIDE RAIL AND POSTS TO BE INSTALLED AT SAME LATERAL OFFSET AS EXISTING, UNLESS NOTED OTHERWISE.
- ALL GUIDE RAIL ENDS SHALL BE BURIED IN ACCORDANCE WITH NSTIR H5520.



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revisions		date

project projet

**NORTH MOUNTAIN
PAVEMENT
REHABILITATION
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessin

DRAWING LIST AND GENERAL NOTES

designed D. KOZAK conçu

date 2017 03 20

drawn S. WELLS dessiné

date 2017 03 20

approved approuvé

date

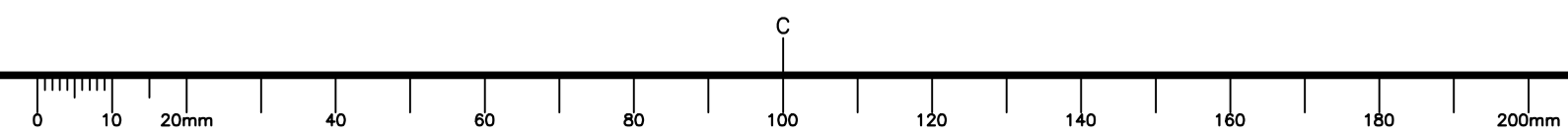
Tender *SJB* Soumission 2017 03 20
PCA Project Manager Administrateur de projets TPSGC

project number no. du projet

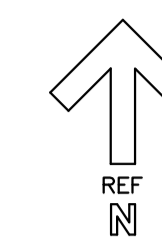
671

drawing no. no. du dessin

C2 OF C29



NSP REF. NO.: 151-09593 PA-VORON-2015-05993-ADVIS-VAN-PRODUCTION-DRAWINGS-NORTH MOUNTAIN PAVEMENT REHABILITATION COVER SHEET NORTH/ING. PRINTED: 4:59 PM 2017/03/23 BY: SCOT WELLS



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project projet

**NORTH MOUNTAIN
PAVEMENT
REHABILITATION
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessin

KEY PLAN

designed D. KOZAK conçu

date 2017 03 20

drawn S. WELLS dessiné

date 2017 03 20

approved approuvé

date

Tender *SJB* Soumission 2017 03 20

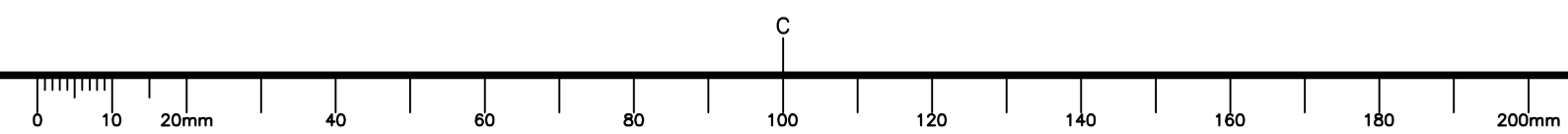
PCA Project Manager Administrateur de projets TPSGC

project number no. du projet

671

drawing no. no. du dessin

C3 OF C29



NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK DRAWING NO. 671 OF 290 DATE 2017 03 20 PROJECT NO. 671



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LEGEND OLD

- GUIDE RAIL
- EDGE OF SHOULDER
- BOTTOM OF SLOPE
- EDGE OF TREES
- RETAINING WALL
- CULVERT
- BORE HOLE
- CORE
- UTILITY POLE
- SIGN
- OVERHEAD LINES

LEGEND NEW

- TRUNK 30
- EDGE OF PAVE
- TRUNK 30
- EDGE OF PAVE
- CULVERT
- GUIDE RAIL (WEAK POST)
- GUIDE RAIL (STRONG POST)

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revisions		date
project		project

NORTH MOUNTAIN
PAVEMENT
REHABILITATION
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing design

PLAN
STATION
38+240 TO 38+840

designed D. KOZAK conçu

date 2017 03 20

drawn S. WELLS dessiné

date 2017 03 20

approved approuvé

date

Tender *SJB* Soumission 2017 03 20

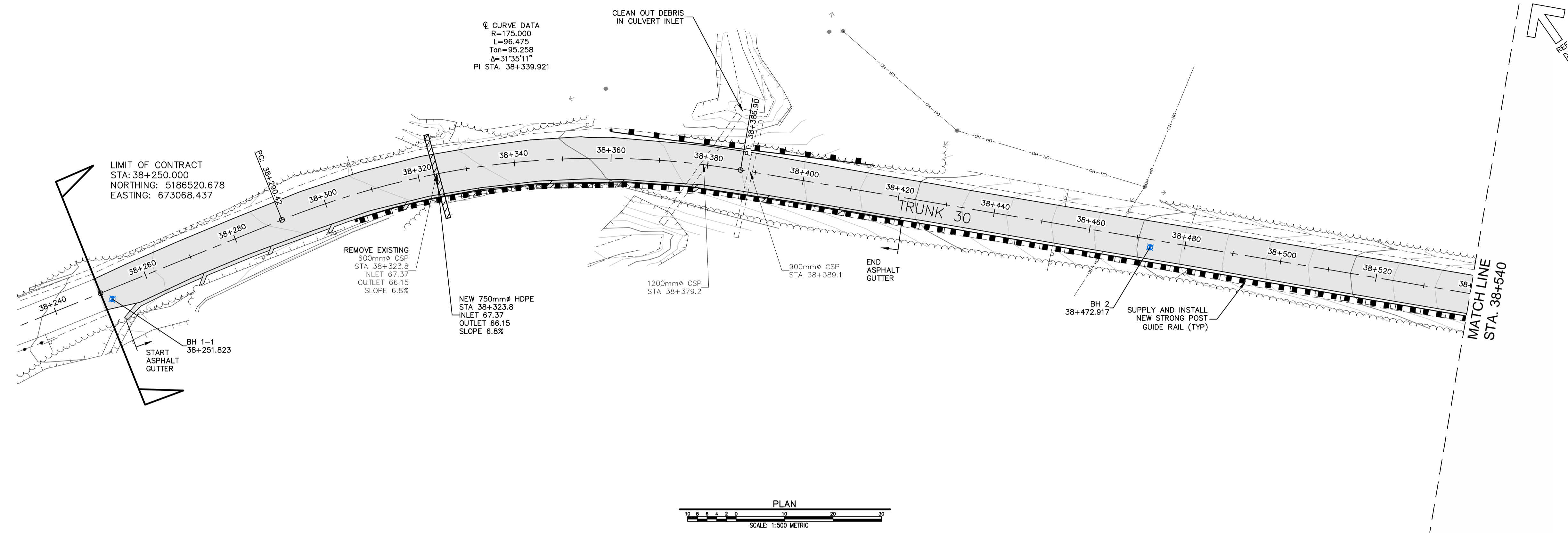
PCA Project Manager Administrateur de projets TPSGC

project number no. du projet

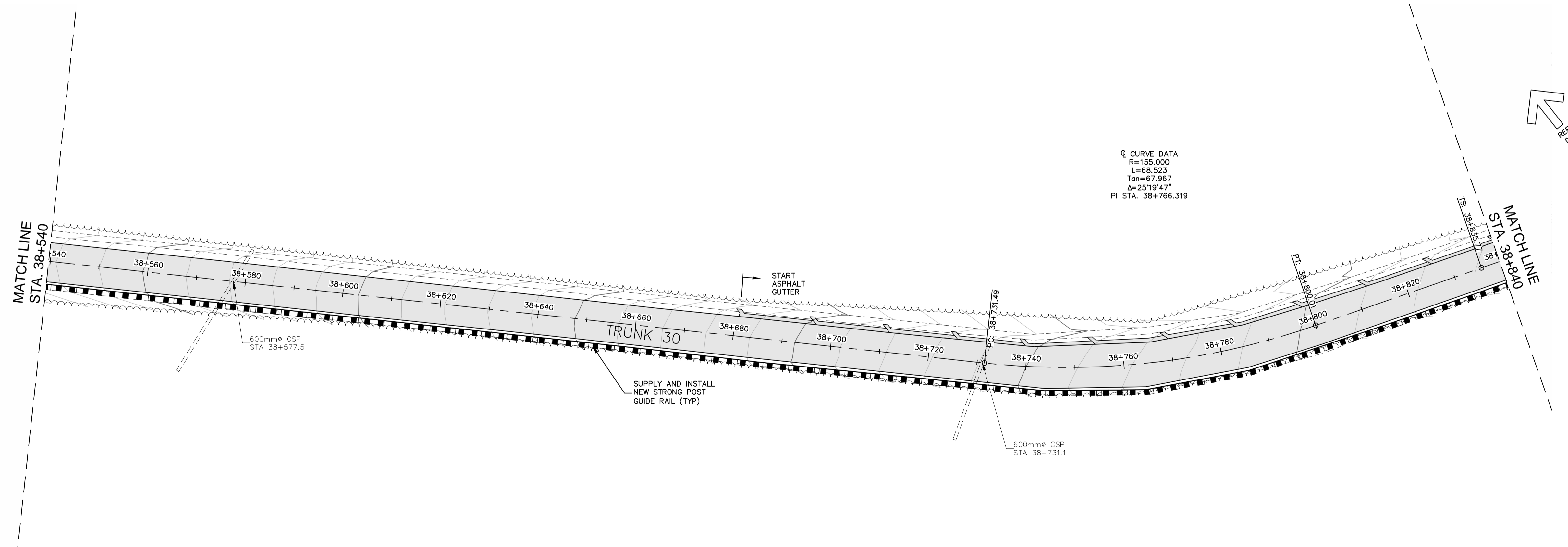
671

drawing no. no. du dessin

C4 OF C29



PLAN
SCALE: 1:500 METRIC



PLAN
SCALE: 1:500 METRIC

PCA REF: NS-151-09593 PA-VORONOV-2015-05993-ADVISED-PRODUCTION-DRAWINGS-NORTH MOUNTAIN PAVEMENT REHABILITATION-CAPE BRETON HIGHLANDS NATIONAL PARK PART LAYOUT C4 PLAN ID: PRINTED: 4:59 PM 2017/03/23 BY: SCOTT WELLS



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LEGEND OLD

- GUIDE RAIL
- EDGE OF SHOULDER
- BOTTOM OF SLOPE
- EDGE OF TREES
- RETAINING WALL
- CULVERT
- BORE HOLE
- CORE
- UTILITY POLE
- SIGN
- OVERHEAD LINES

LEGEND NEW

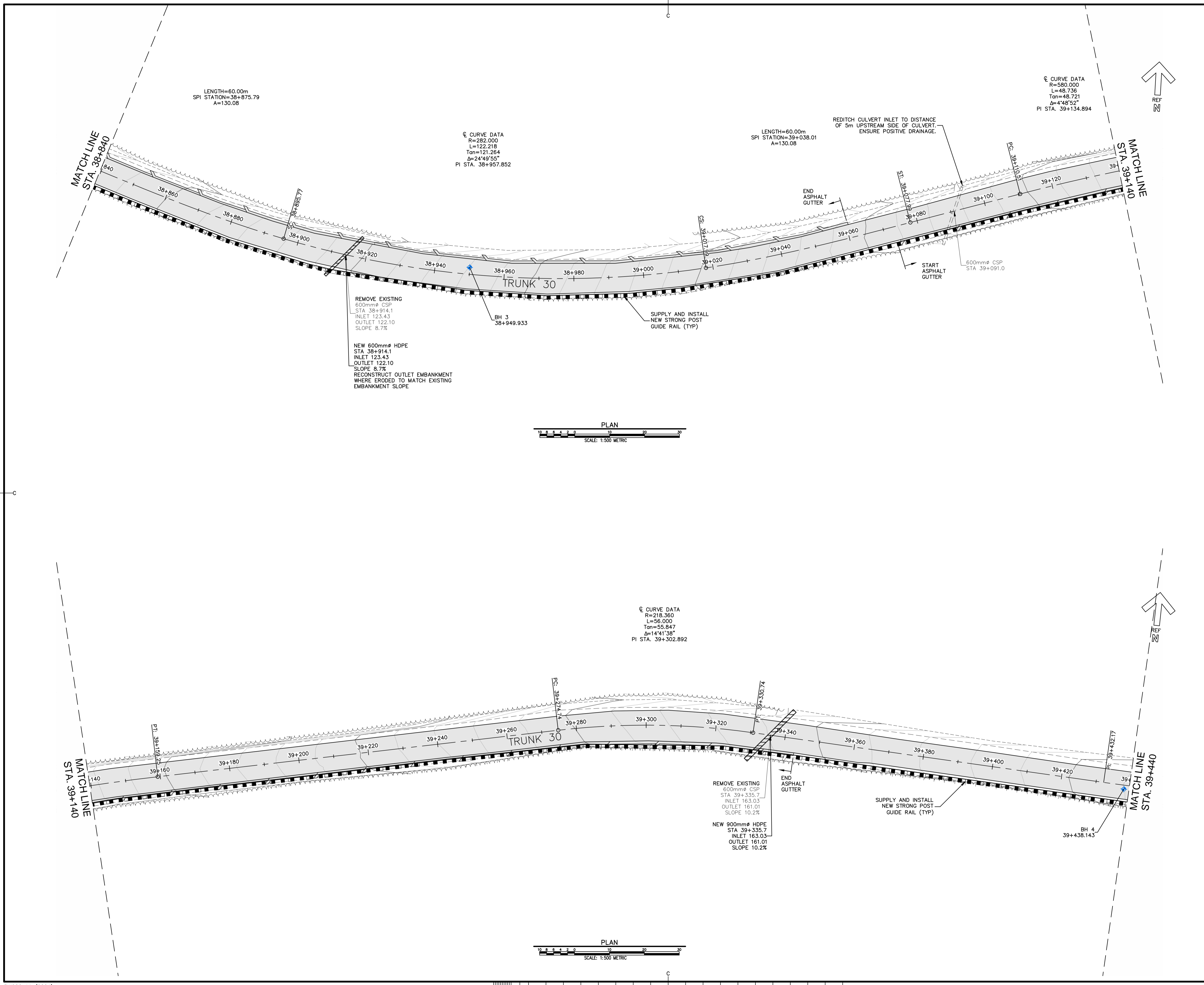
- TRUNK 30
- EDGE OF PAVE
- TRUNK 30
- EDGE OF PAVE
- CULVERT
- GUIDE RAIL (WEAK POST)
- GUIDE RAIL (STRONG POST)

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NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK

PLAN STATION 38+840 TO 39+440

designed	D. KOZAK	conçu
date	2017 03 20	
drawn	S. WELLS	dessiné
date	2017 03 20	
approved		approuvé
date		
Tender	<i>SJB</i>	Soumission
PCA Project Manager	Administrateur de projets TPSGC	2017 03 20
project number		no. du projet
	671	
drawing no.		no. du dessin
	C5 OF C29	



C5 PLAN 03 PRINTED: 4:59 PM 2017/03/23
 C5 PLAN 03
 BY: S.WELLS
 PROJECT: NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK



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LEGEND OLD

- GUIDE RAIL
- EDGE OF SHOULDER
- BOTTOM OF SLOPE
- EDGE OF TREES
- RETAINING WALL
- CULVERT
- BORE HOLE
- CORE
- UTILITY POLE
- SIGN
- OVERHEAD LINES

LEGEND NEW

- TRUNK 30
- EDGE OF PAVE
- TRUNK 30
- EDGE OF PAVE
- CULVERT
- GUIDE RAIL (WEAK POST)
- GUIDE RAIL (STRONG POST)

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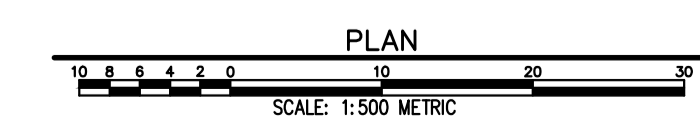
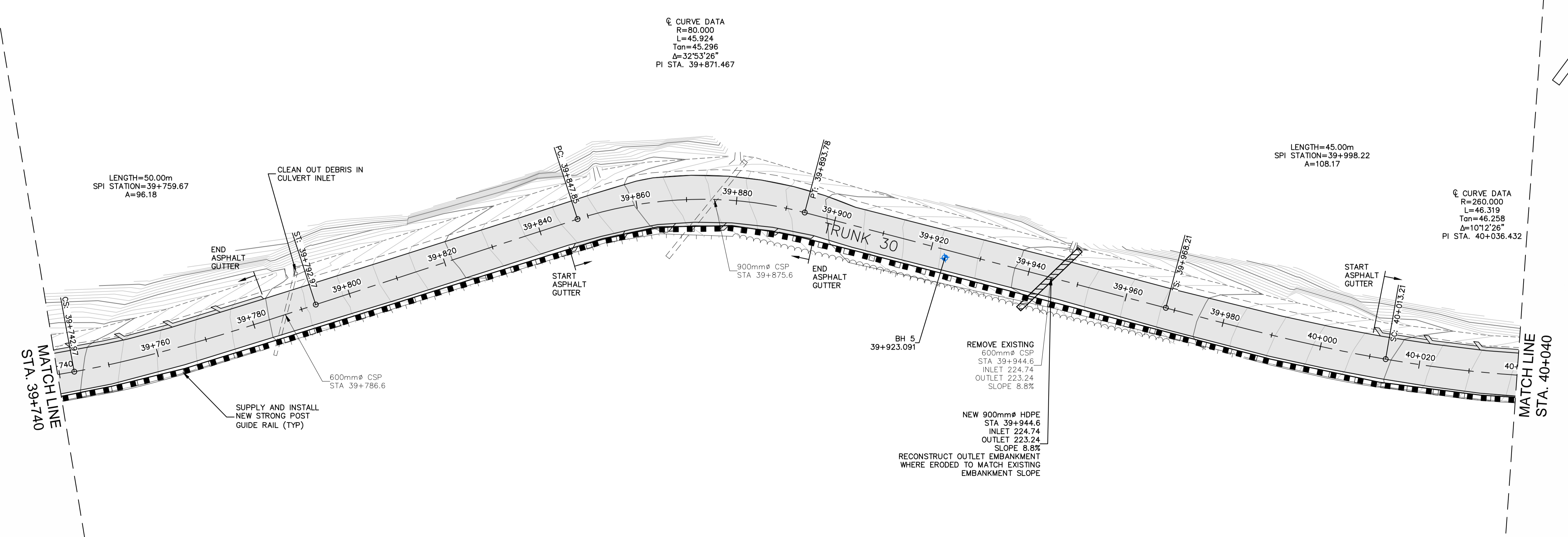
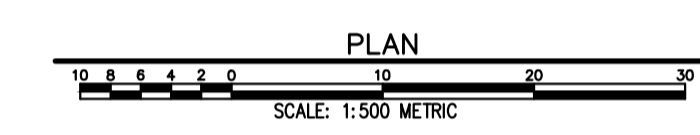
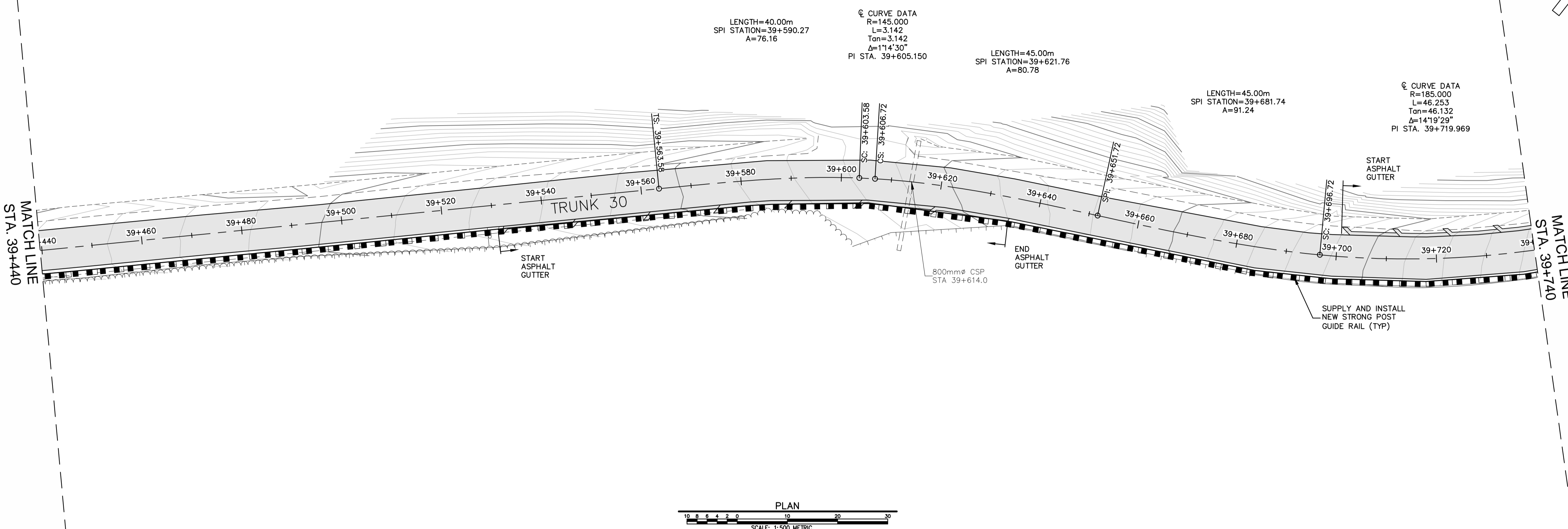
NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK

drawing design

PLAN STATION 39+440 TO 40+040

designed	D. KOZAK	conçu
date	2017 03 20	
drawn	S. WELLS	dessiné
date	2017 03 20	
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date		
Tender	<i>SJB</i>	Soumission
PCA Project Manager		2017 03 20
	Administrateur de projets	TPSGC
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LEGEND OLD

- GUIDE RAIL
- EDGE OF SHOULDER
- BOTTOM OF SLOPE
- EDGE OF TREES
- RETAINING WALL
- CULVERT
- BORE HOLE
- CORE
- UTILITY POLE
- SIGN
- OVERHEAD LINES

LEGEND NEW

- TRUNK 30
- EDGE OF PAVE
- TRUNK 30
- EDGE OF PAVE
- CULVERT
- GUIDE RAIL (WEAK POST)
- GUIDE RAIL (STRONG POST)

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NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK

drawing design

PLAN STATION 40+040 TO 40+640

designed D. KOZAK conçu

date 2017 03 20

drawn S. WELLS dessiné

date 2017 03 20

approved approuvé

date

Tender *SJB* Soumission 2017 03 20

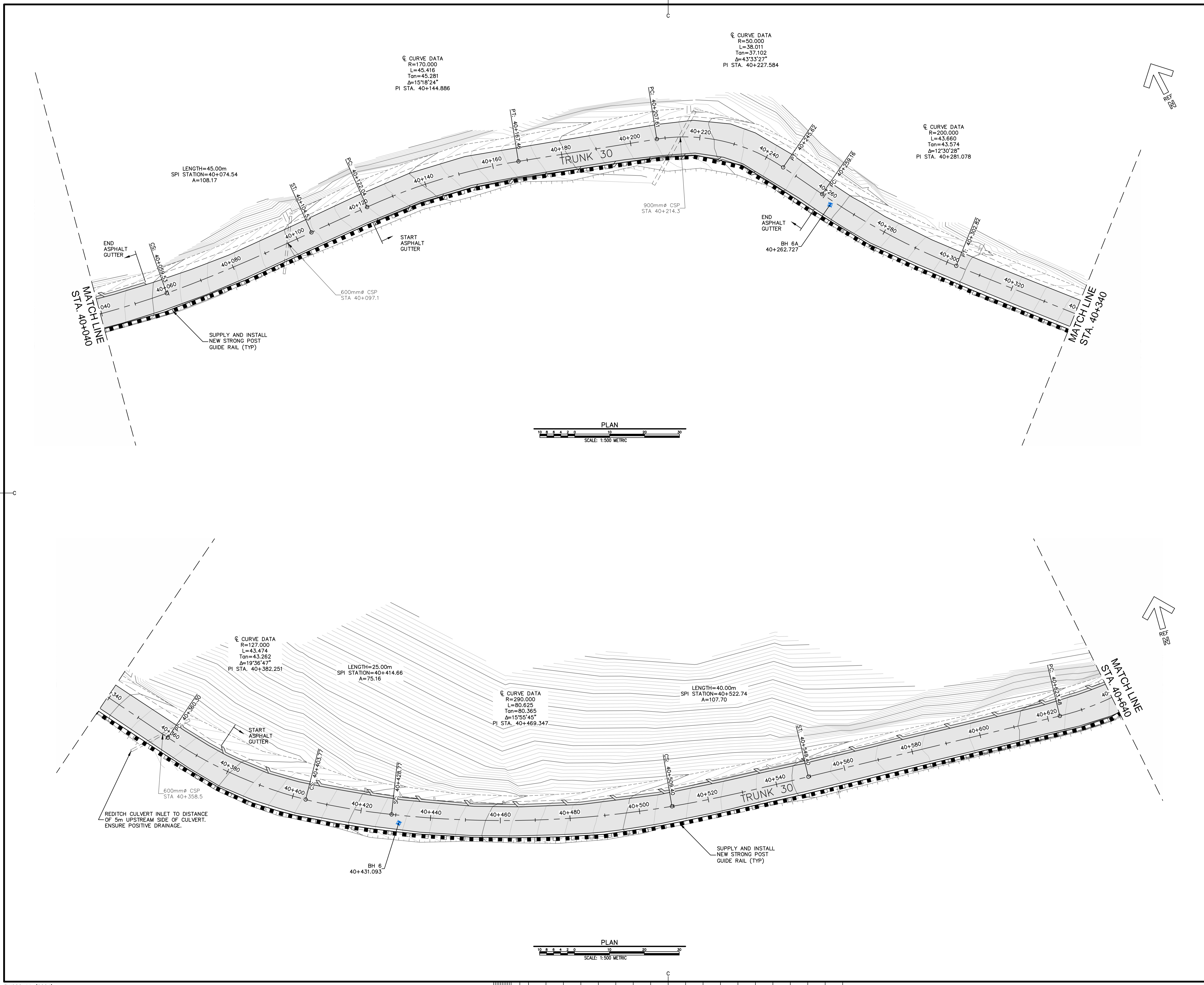
PCA Project Manager Administrateur de projets TPSGC

project number no. du projet

671

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C7 OF C29



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 PROJECT: 151-09593 PA-VORON/DVA/2015/05993/ADVIS/PRODUCTION/BRANWOS/NORTH MOUNTAIN/151-09593_NORTH MOUNTAIN_PP_PAVT.DWG
 BY: S001/WELLS



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LEGEND OLD

- GUIDE RAIL
- EDGE OF SHOULDER
- BOTTOM OF SLOPE
- EDGE OF TREES
- RETAINING WALL
- CULVERT
- BORE HOLE
- CORE
- UTILITY POLE
- SIGN
- OVERHEAD LINES

LEGEND NEW

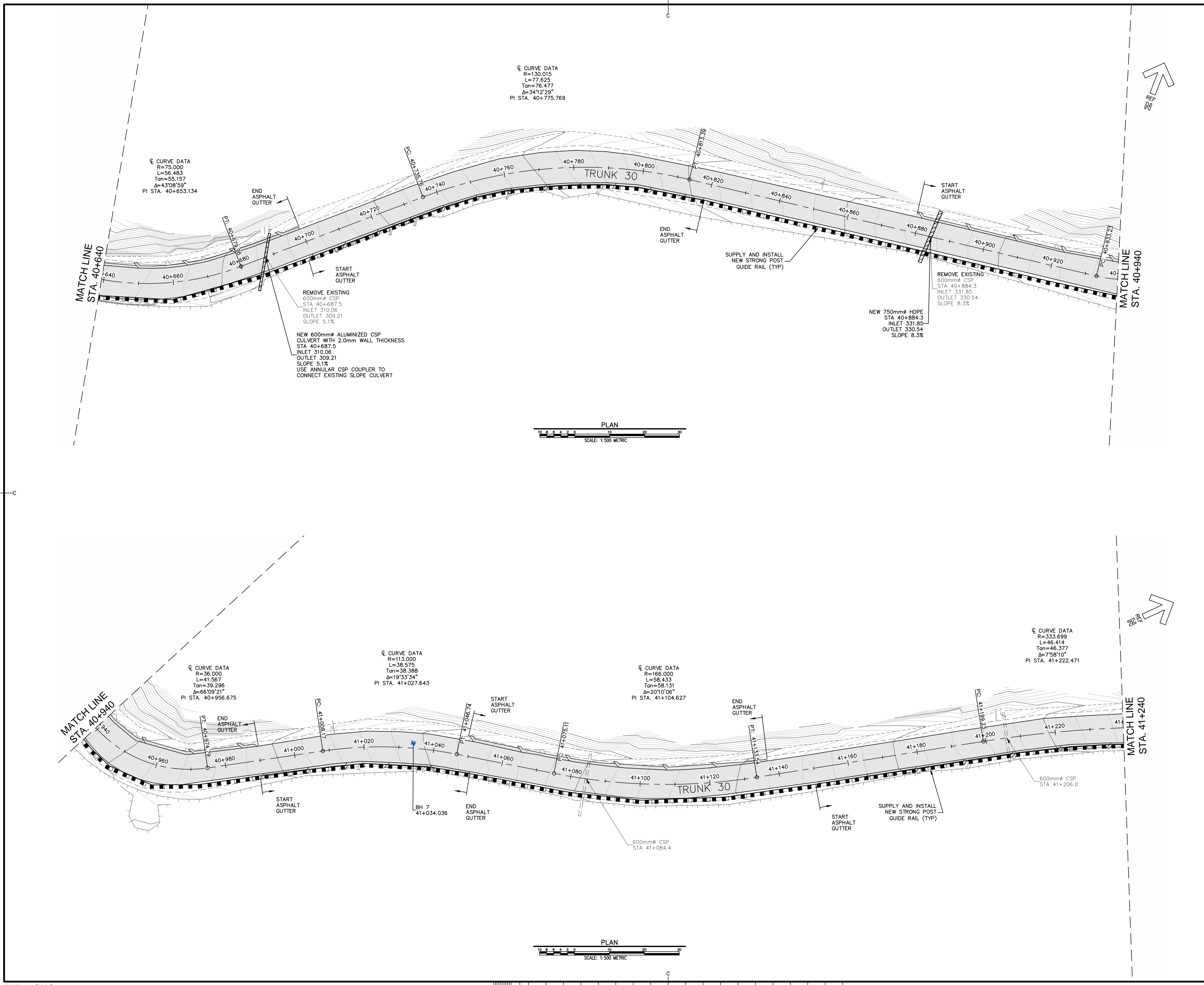
- ☉ TRUNK 30
- EDGE OF PAVE
- ☉ TRUNK 30
- EDGE OF PAVE
- CULVERT
- GUIDE RAIL (WEAK POST)
- GUIDE RAIL (STRONG POST)

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NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK

NORTH MOUNTAIN PLAN STATION 40+640 TO 41+240

designed	D. KOZAK	conçu
date	2017 03 20	
drawn	S. WELLS	dessiné
date	2017 03 20	
approved		approuvé
date		
Tender	<i>SJB</i>	Soumission
PCA Project Manager		2017 03 20
Administrateur de projets	TPSGC	
project number		no. du projet
	671	
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	C8 OF C29	





LEGEND OLD

- GUIDE RAIL
- EDGE OF SHOULDER
- BOTTOM OF SLOPE
- EDGE OF TREES
- RETAINING WALL
- CULVERT
- BORE HOLE
- CORE
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- SIGN
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LEGEND NEW

- ☉ TRUNK 30
- EDGE OF PAVE
- ☉ TRUNK 30
- EDGE OF PAVE
- CULVERT
- GUIDE RAIL (WEAK POST)
- GUIDE RAIL (STRONG POST)

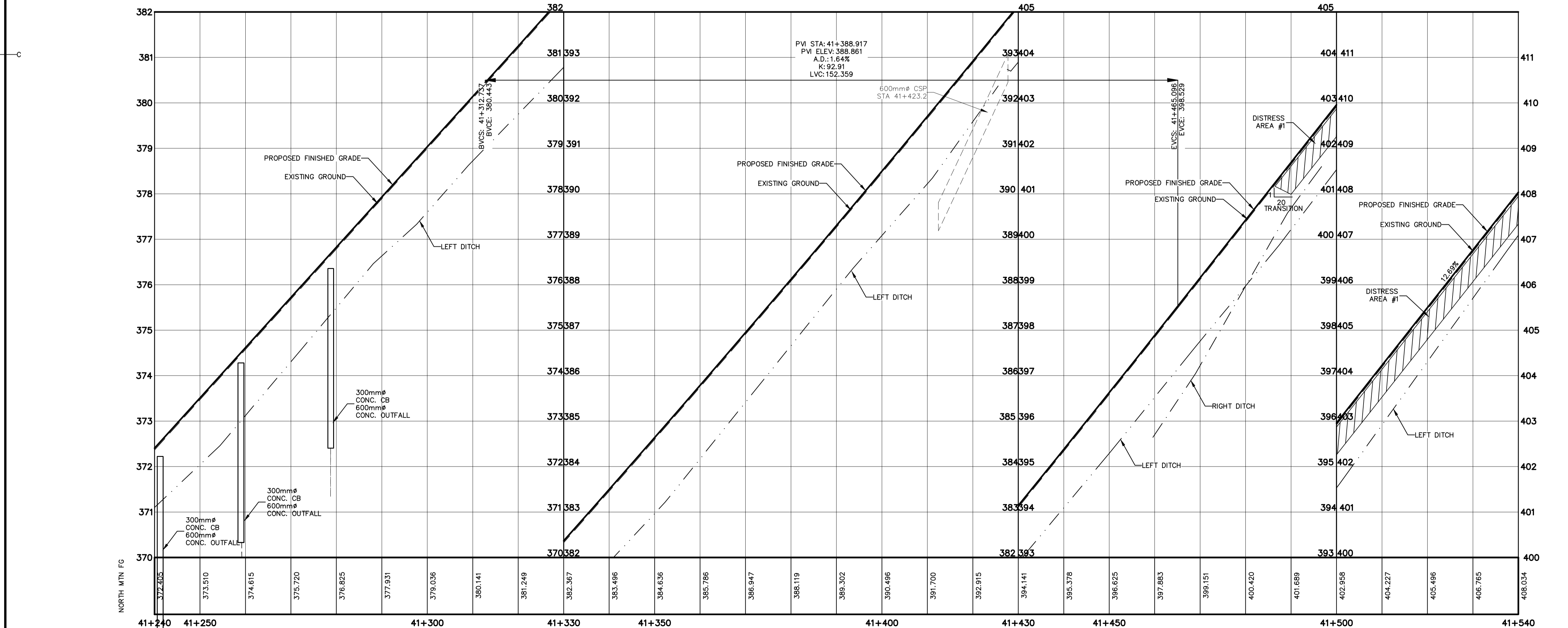
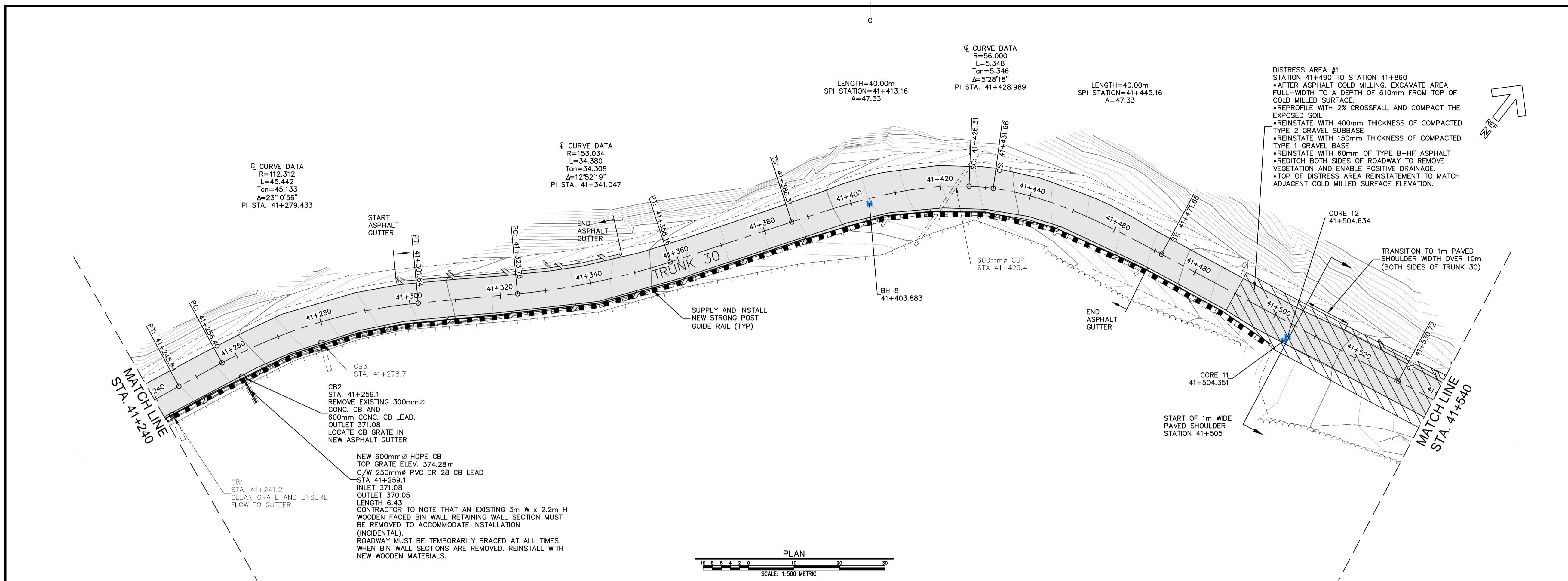
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NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK

PLAN & PROFILE STATION 41+240 TO 41+540

designed	D. KOZAK	conçu
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date	2017 03 20	
approved		approuvé
date		
Tender	<i>SJB</i>	Soumission
PCA Project Manager	Administrateur de projets TPSGC	2017 03 20
project number		no. du projet

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C9 OF C29





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LEGEND OLD

- GUIDE RAIL
- EDGE OF SHOULDER
- BOTTOM OF SLOPE
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- RETAINING WALL
- CULVERT
- BORE HOLE
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LEGEND NEW

- ☉ TRUNK 30
- EDGE OF PAVE
- ☉ TRUNK 30
- EDGE OF PAVE
- CULVERT
- GUIDE RAIL (WEAK POST)
- GUIDE RAIL (STRONG POST)

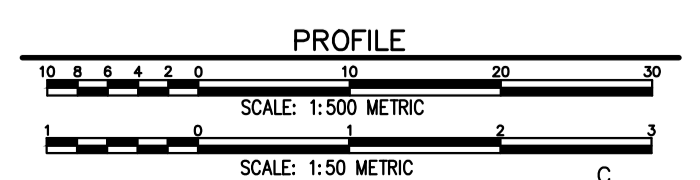
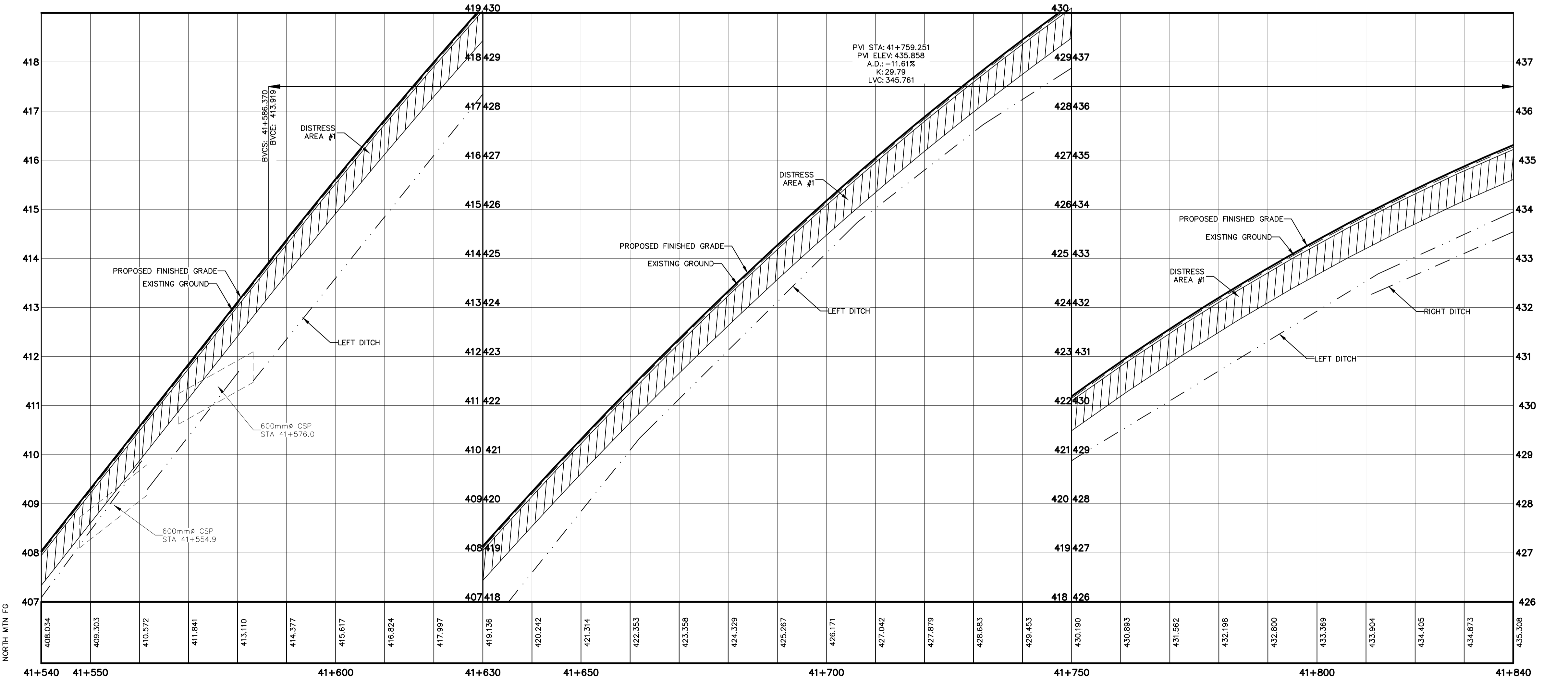
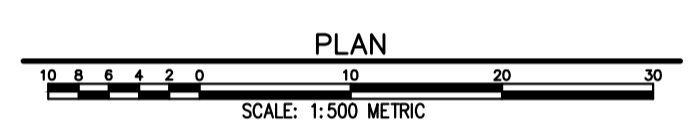
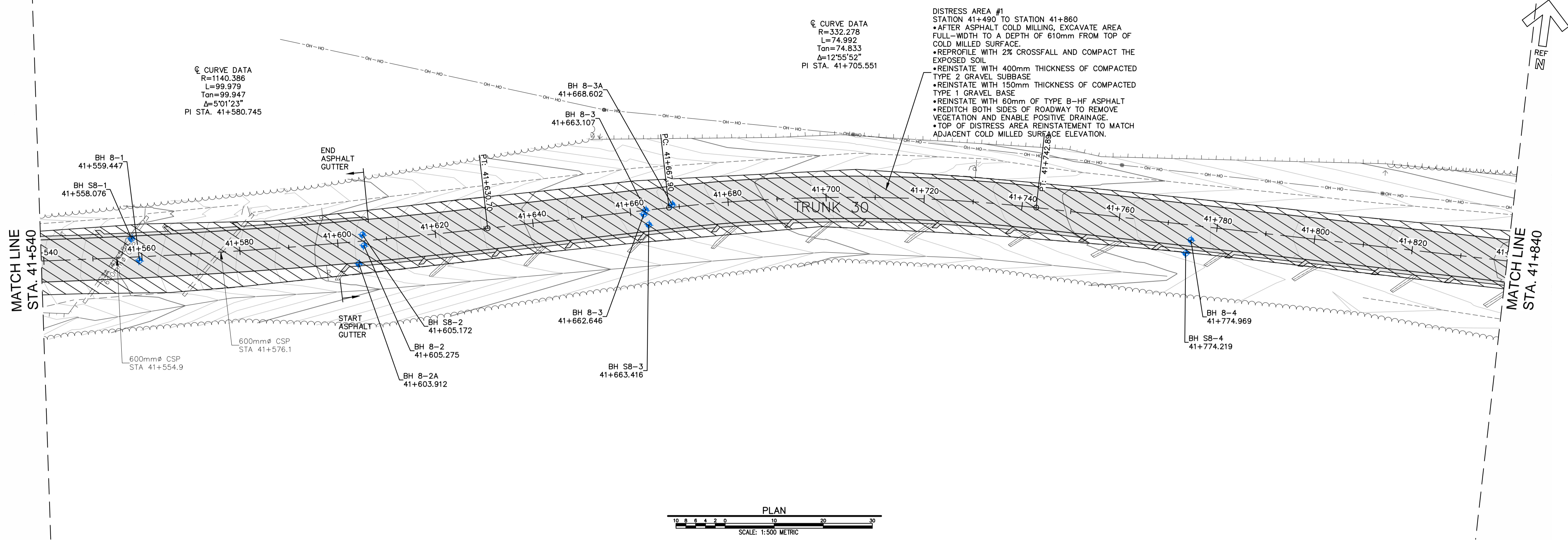
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project
NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK

PLAN & PROFILE
STATION
41+540 TO 41+840

designed	D. KOZAK	conçu
date	2017 03 20	
drawn	S. WELLS	dessiné
date	2017 03 20	
approved		approuvé
date		
Tender	<i>SJB</i>	Soumission
PCA Project Manager	Administrateur de projets TPSGC	2017 03 20
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C10 OF C29





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LEGEND OLD

- GUIDE RAIL
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LEGEND NEW

- ☉ TRUNK 30
- EDGE OF PAVE
- ☉ TRUNK 30
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- GUIDE RAIL (WEAK POST)
- GUIDE RAIL (STRONG POST)

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project
NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK

drawing
NORTH MOUNTAIN PLAN & PROFILE STATION 41+840 TO 42+140

designed	D. KOZAK	conçu
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Tender	<i>SJB</i>	Soumission
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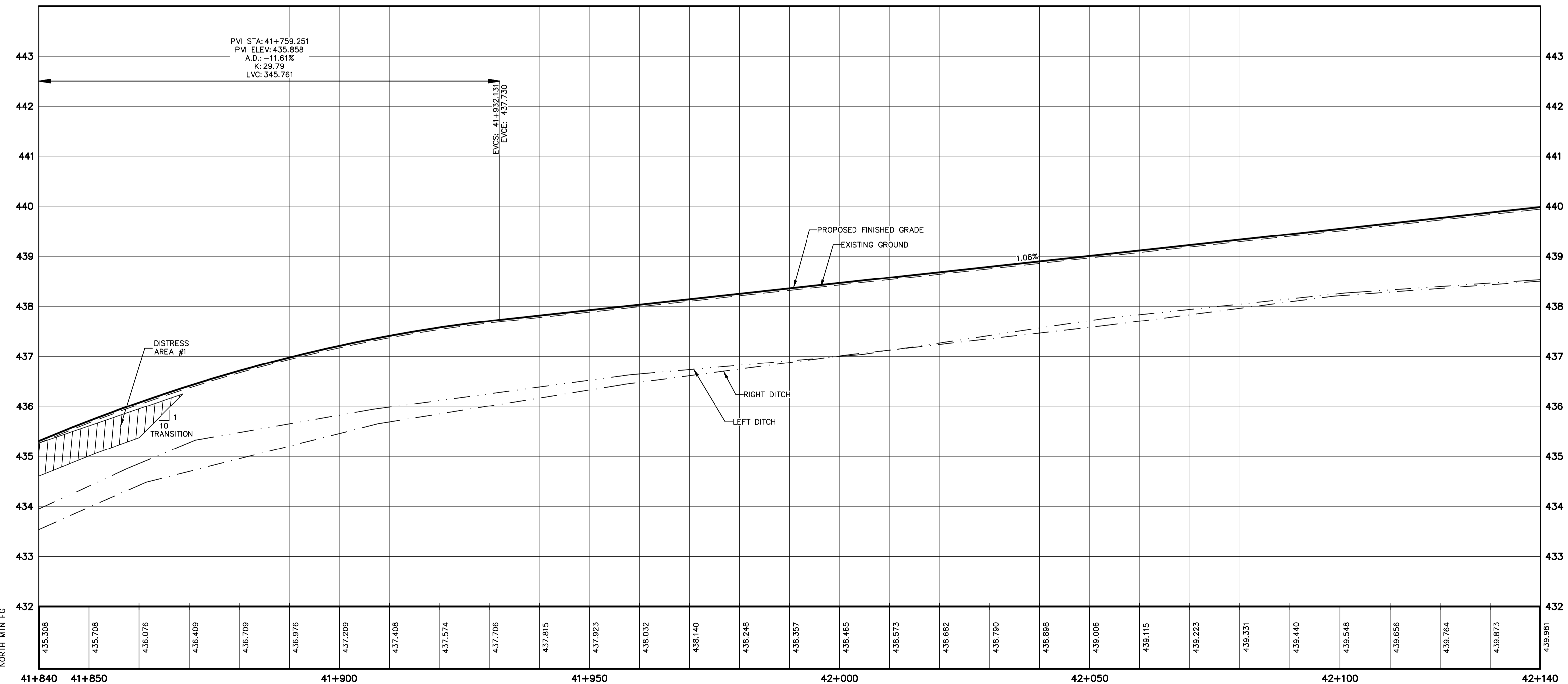
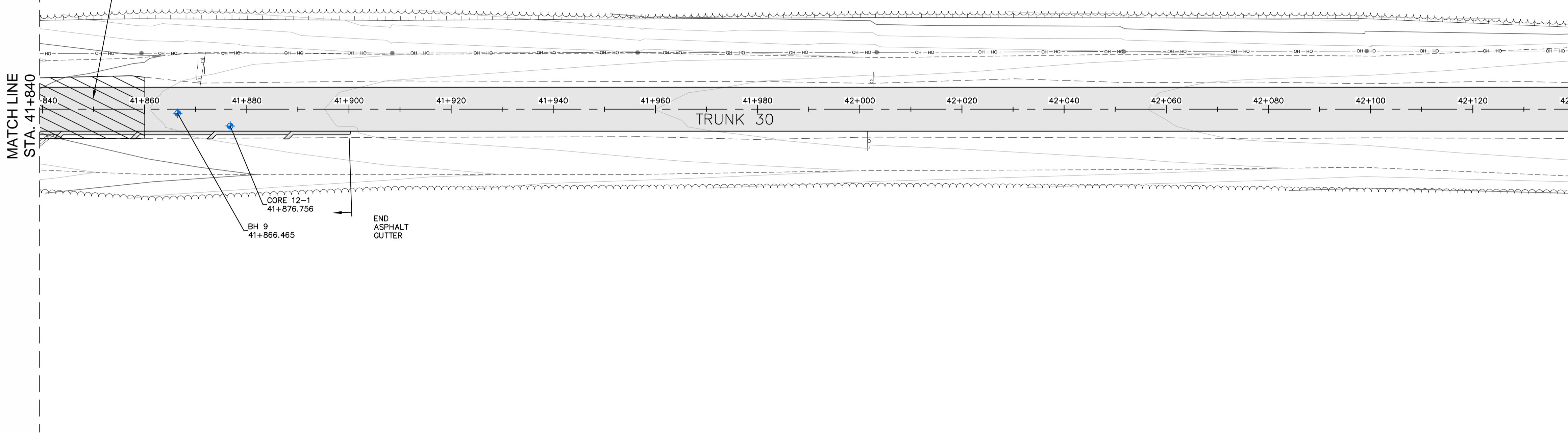
671

drawing no. C11 OF C29 no. du dessin

MATCH LINE STA. 41+840

MATCH LINE STA. 42+140

- DISTRESS AREA #1
STATION 41+490 TO STATION 41+860
- AFTER ASPHALT COLD MILLING, EXCAVATE AREA FULL-WIDTH TO A DEPTH OF 610mm FROM TOP OF COLD MILLED SURFACE.
 - REPROFILE WITH 2% CROSSFALL AND COMPACT THE EXPOSED SOIL.
 - REINSTATE WITH 400mm THICKNESS OF COMPACTED TYPE 2 GRAVEL SUBBASE
 - REINSTATE WITH 150mm THICKNESS OF COMPACTED TYPE 1 GRAVEL BASE
 - REINSTATE WITH 60mm OF TYPE B-HF ASPHALT
 - REDITCH BOTH SIDES OF ROADWAY TO REMOVE VEGETATION AND ENABLE POSITIVE DRAINAGE.
 - TOP OF DISTRESS AREA REINSTATEMENT TO MATCH ADJACENT COLD MILLED SURFACE ELEVATION.



BYP: S0011.WELLS C11 PLAN 13 PRINTED: 5:00 PM 2017/03/23



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LEGEND OLD

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LEGEND NEW

- ☉ TRUNK 30
- EDGE OF PAVE
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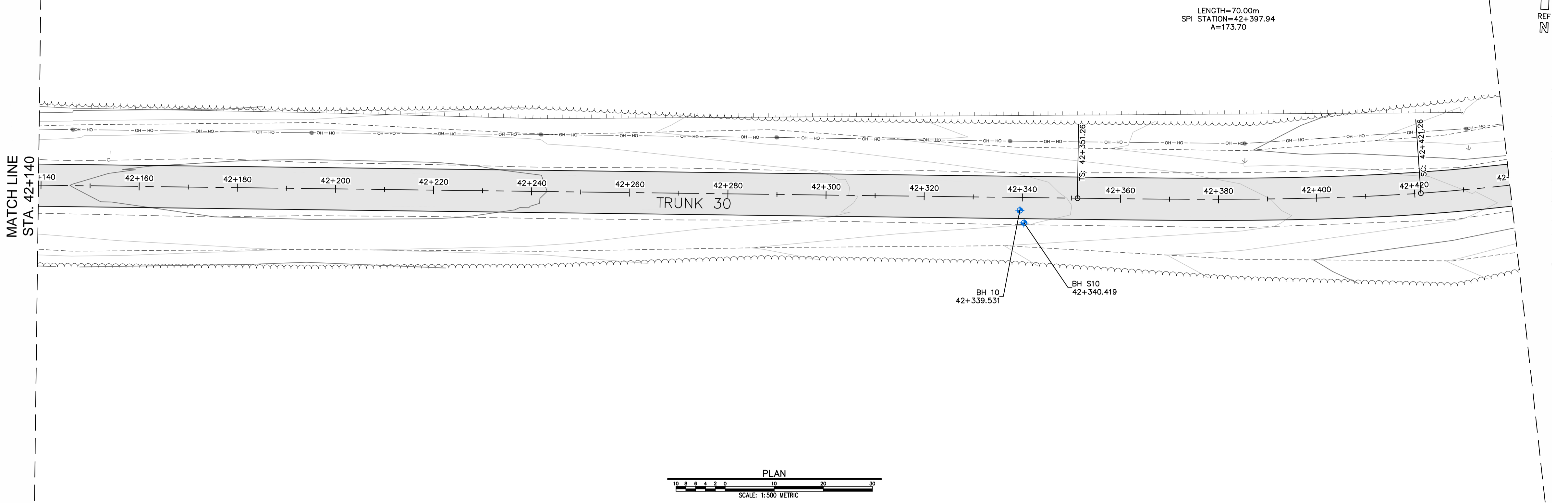
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NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK

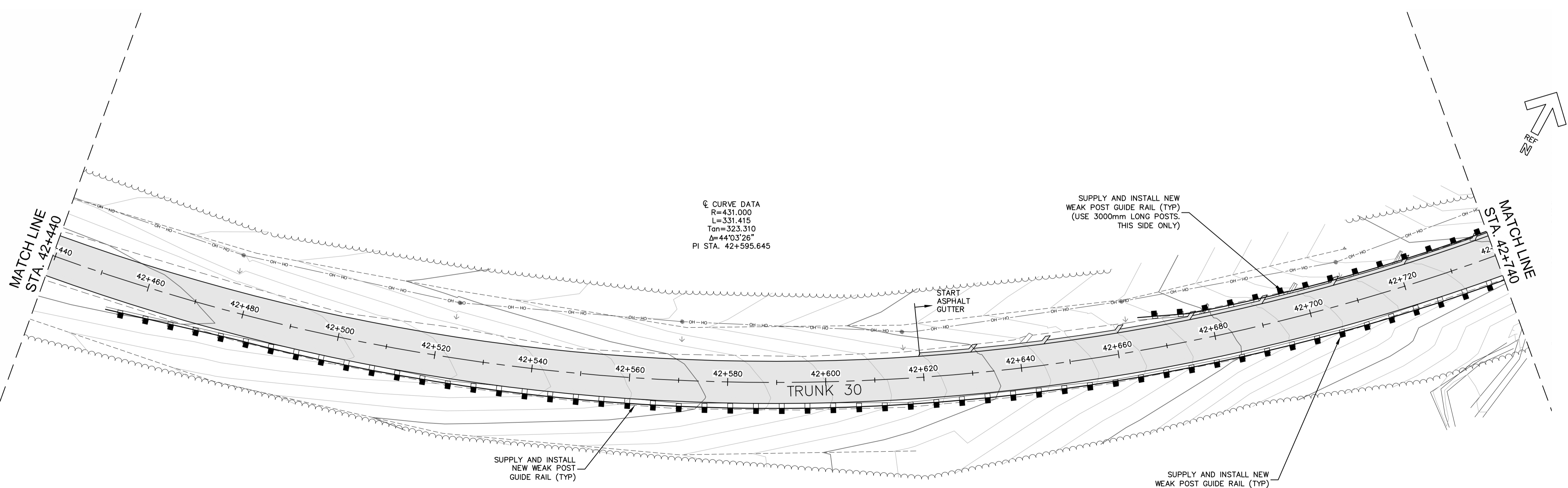
NORTH MOUNTAIN PLAN STATION 42+140 TO 42+740

designed	D. KOZAK	conçu
date	2017 03 20	
drawn	S. WELLS	dessiné
date	2017 03 20	
approved		approuvé
date		
Tender	<i>SJB</i>	Soumission
PCA Project Manager	Administrateur de projets TPSGC	2017 03 20
project number		no. du projet

971
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PLAN
SCALE: 1:500 METRIC



PLAN
SCALE: 1:500 METRIC

BY: S.WELLS PRINTED: 2017 03 20 14:00:00



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LEGEND OLD

- GUIDE RAIL
- EDGE OF SHOULDER
- BOTTOM OF SLOPE
- EDGE OF TREES
- RETAINING WALL
- CULVERT
- BORE HOLE
- CORE
- UTILITY POLE
- SIGN
- OVERHEAD LINES

LEGEND NEW

- ☉ TRUNK 30
- EDGE OF PAVE
- ☉ TRUNK 30
- EDGE OF PAVE
- CULVERT
- GUIDE RAIL (WEAK POST)
- GUIDE RAIL (STRONG POST)

0	ISSUED FOR TENDER	MAR 2017
revisions		date

project
NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK

drawing
PLAN STATION 42+740 TO 43+340

designed D. KOZAK
date 2017 03 20
drawn S. WELLS
date 2017 03 20

approved
date

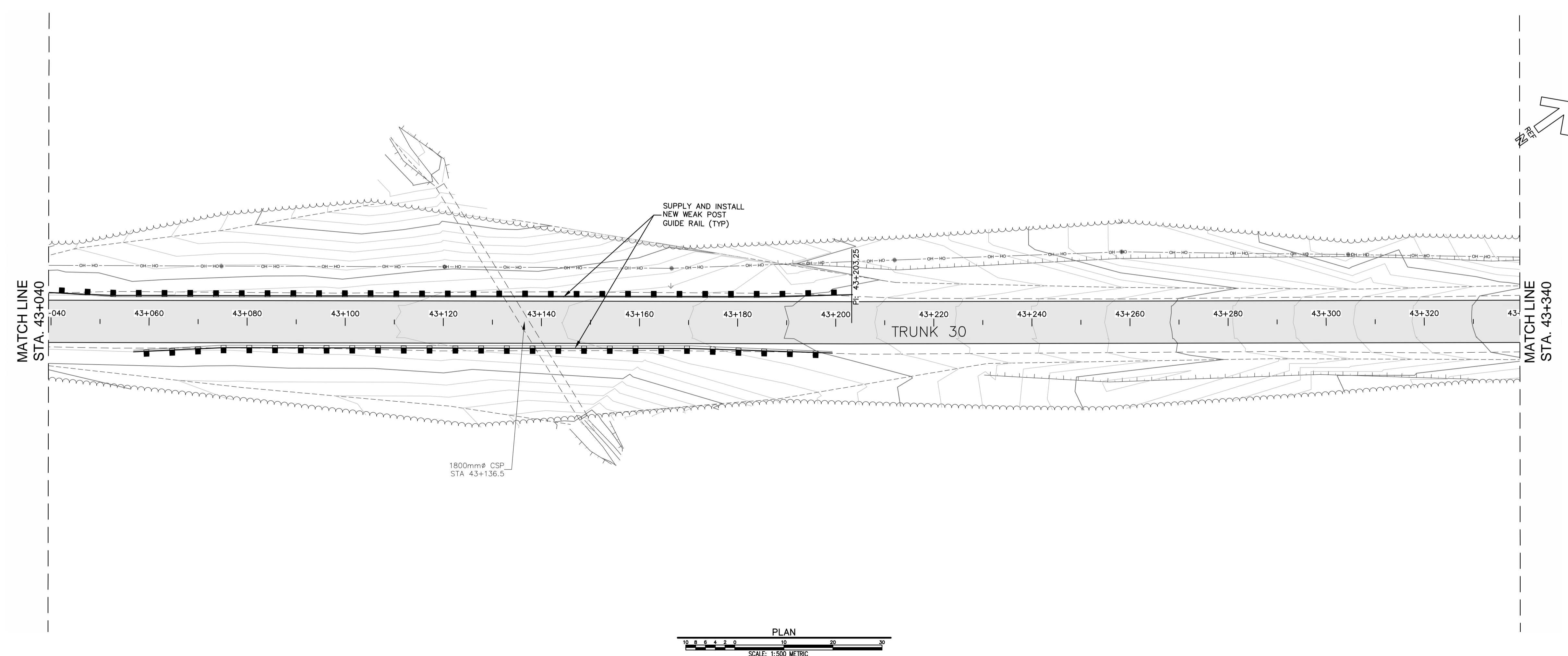
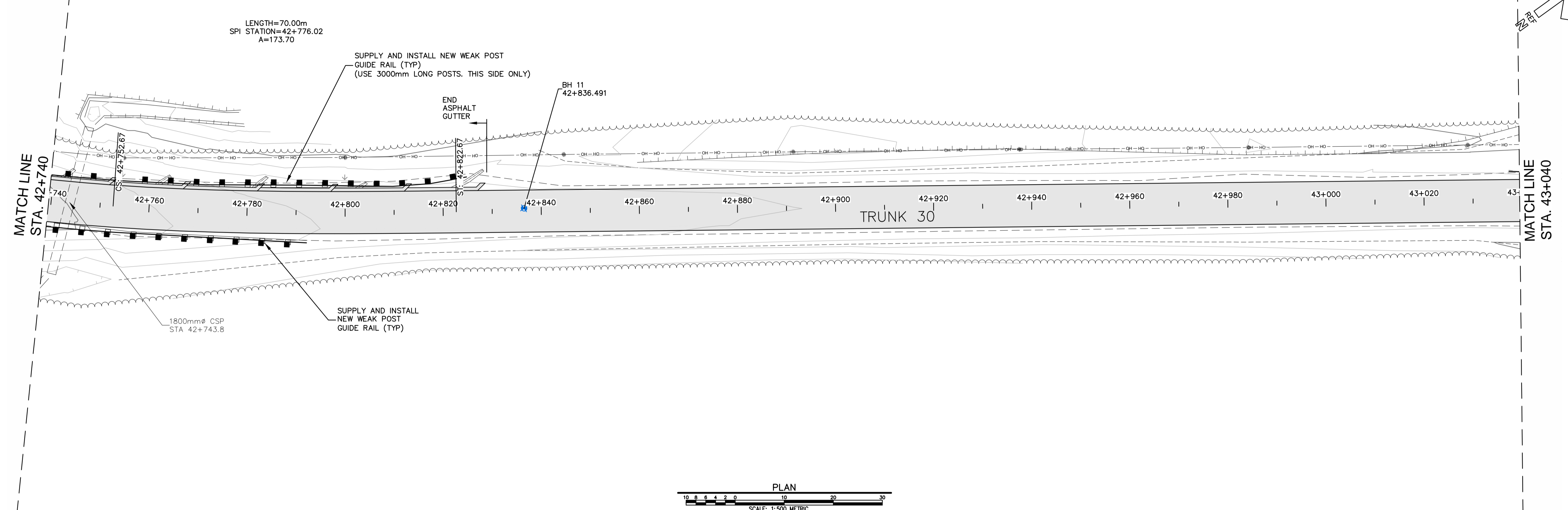
Tender
PCA Project Manager

Submission
2017 03 20
Administrateur de projets TPSGC

project number
671

drawing no.
C13 OF C29

no. du projet
no. du dessin





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LEGEND OLD

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- EDGE OF SHOULDER
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- EDGE OF TREES
- RETAINING WALL
- CULVERT
- BORE HOLE
- CORE
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- OVERHEAD LINES

LEGEND NEW

- ☉ TRUNK 30
- EDGE OF PAVE
- ☉ TRUNK 30
- EDGE OF PAVE
- CULVERT
- GUIDE RAIL (WEAK POST)
- GUIDE RAIL (STRONG POST)

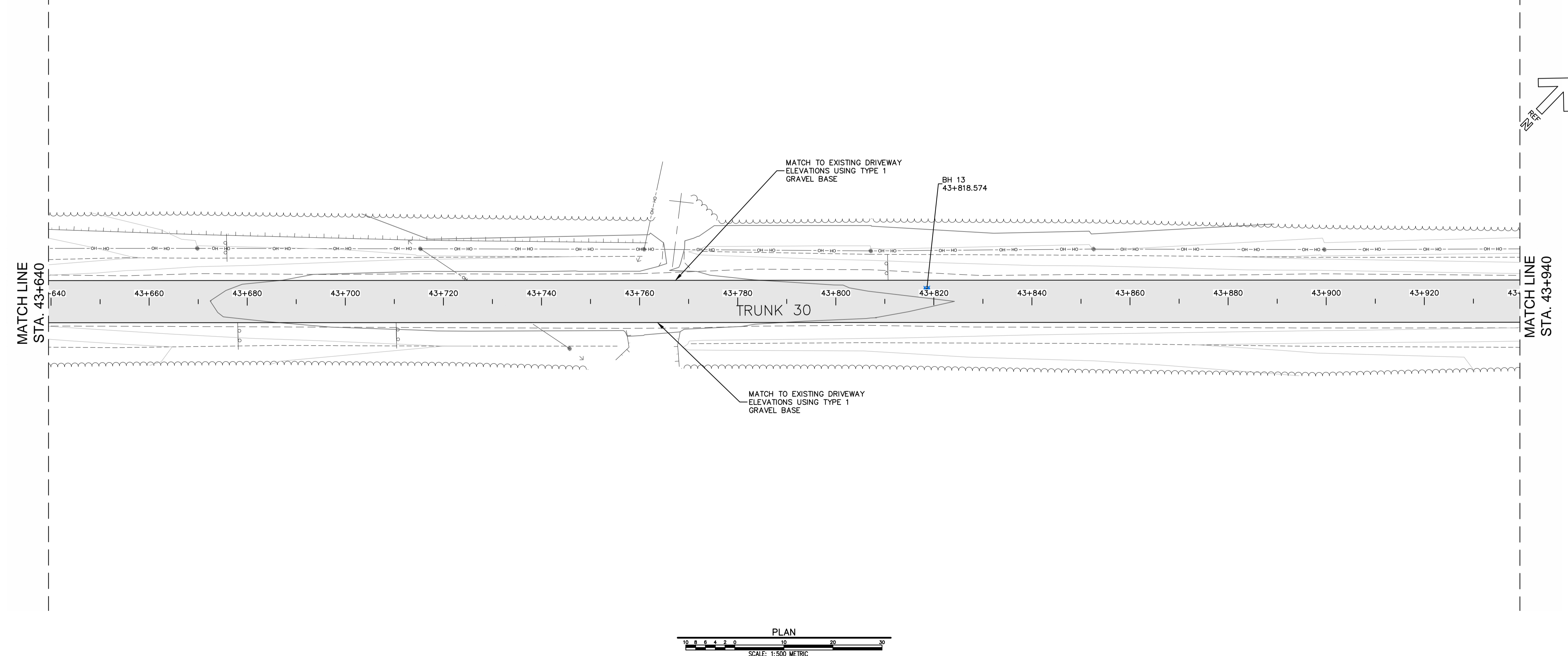
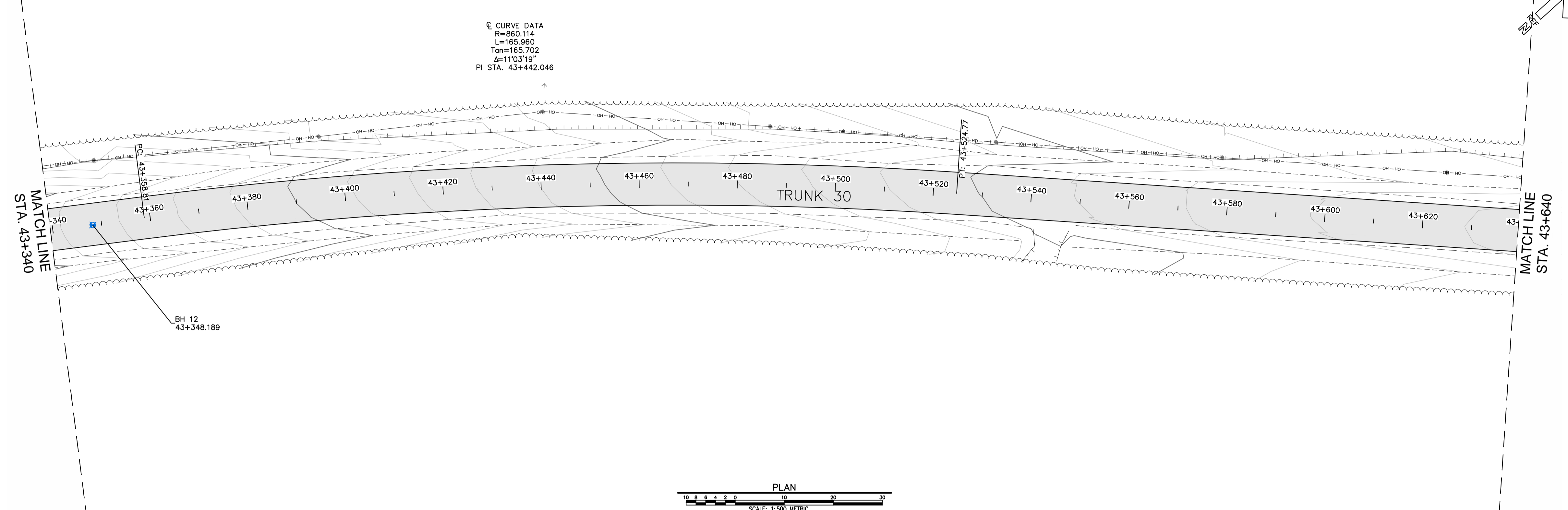
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project
NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK

PLAN STATION 43+340 TO 43+940

designed	D. KOZAK	conçu
date	2017 03 20	
drawn	S. WELLS	dessiné
date	2017 03 20	
approved		approuvé
date		
Tender	<i>SJB</i>	Soumission
PCA Project Manager	Administrateur de projets TPSGC	2017 03 20
project number		no. du projet

971
drawing no. C14 OF C29



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LEGEND OLD

- GUIDE RAIL
- EDGE OF SHOULDER
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- EDGE OF TREES
- RETAINING WALL
- CULVERT
- BORE HOLE
- CORE
- UTILITY POLE
- SIGN
- OVERHEAD LINES

LEGEND NEW

- ☉ TRUNK 30
- EDGE OF PAVE
- ☉ TRUNK 30
- EDGE OF PAVE
- CULVERT
- GUIDE RAIL (WEAK POST)
- GUIDE RAIL (STRONG POST)

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NORTH MOUNTAIN
PAVEMENT
REHABILITATION
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing dessin

PLAN
STATION
43+940 TO 44+240

designed D. KOZAK conçu

date 2017 03 20

drawn S. WELLS dessiné

date 2017 03 20

approved approuvé

date

Tender *S.W.* Submission 2017 03 20

PCA Project Manager Administrateur de projets TPSGC

project number no. du projet

671

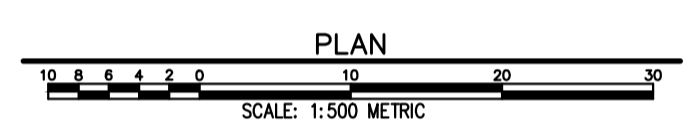
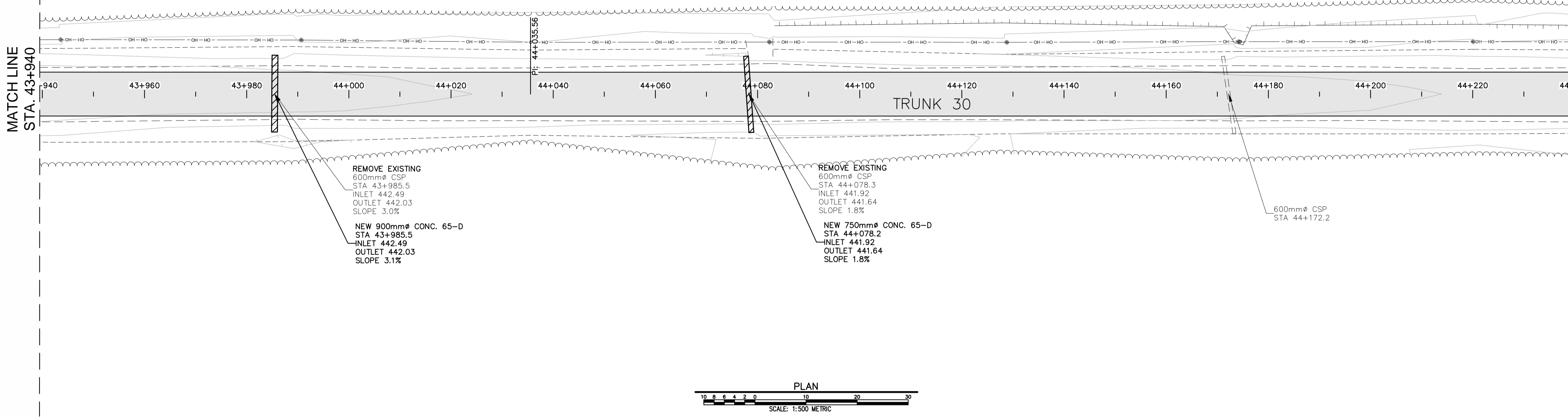
drawing no. no. du dessin

C15 OF C29

E-DRM/GDD-E

MATCH LINE
STA. 43+940

MATCH LINE
STA. 44+240





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LEGEND OLD

- GUIDE RAIL
- EDGE OF SHOULDER
- BOTTOM OF SLOPE
- EDGE OF TREES
- RETAINING WALL
- CULVERT
- BORE HOLE
- CORE
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- SIGN
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LEGEND NEW

- TRUNK 30
- EDGE OF PAVE
- TRUNK 30
- EDGE OF PAVE
- CULVERT
- GUIDE RAIL (WEAK POST)
- GUIDE RAIL (STRONG POST)

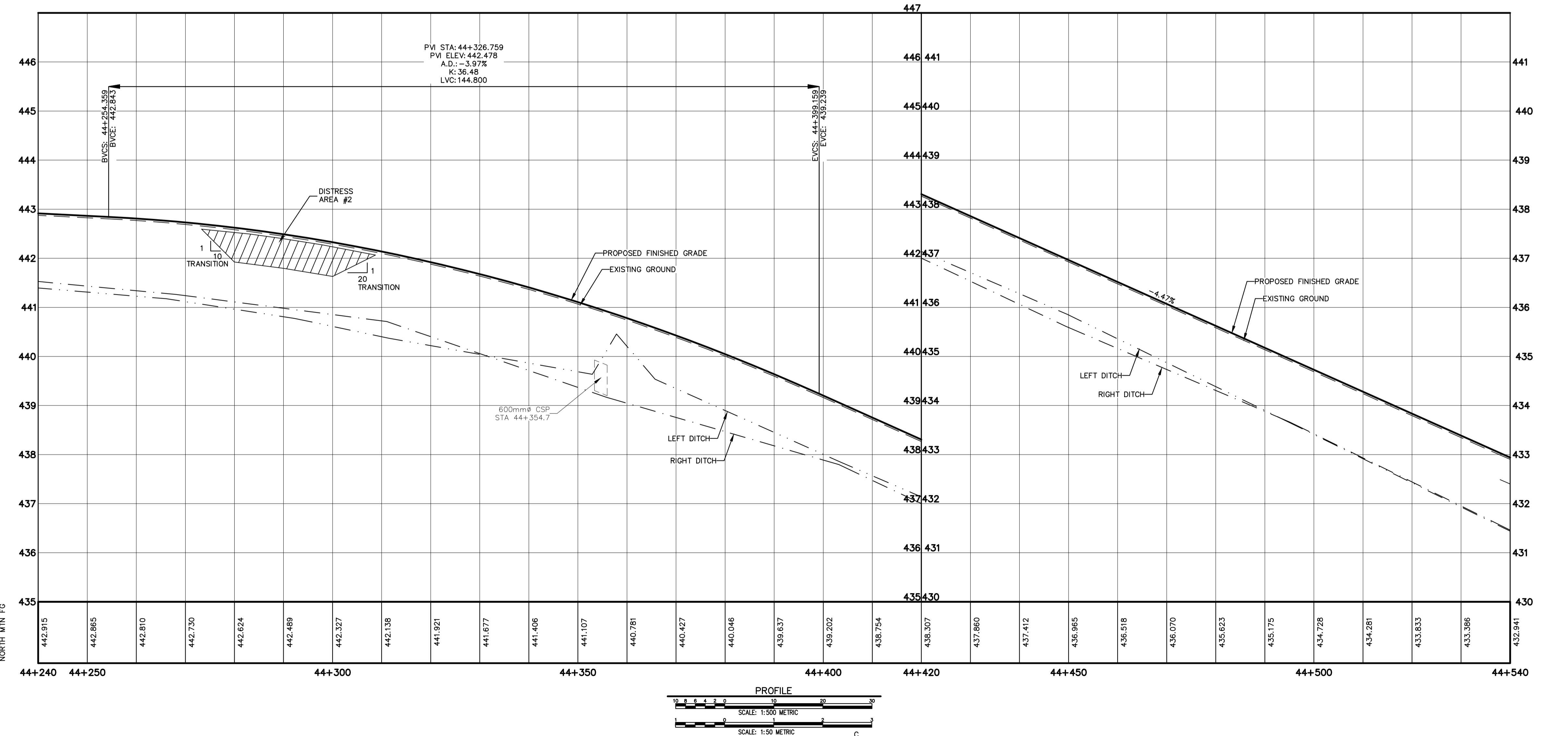
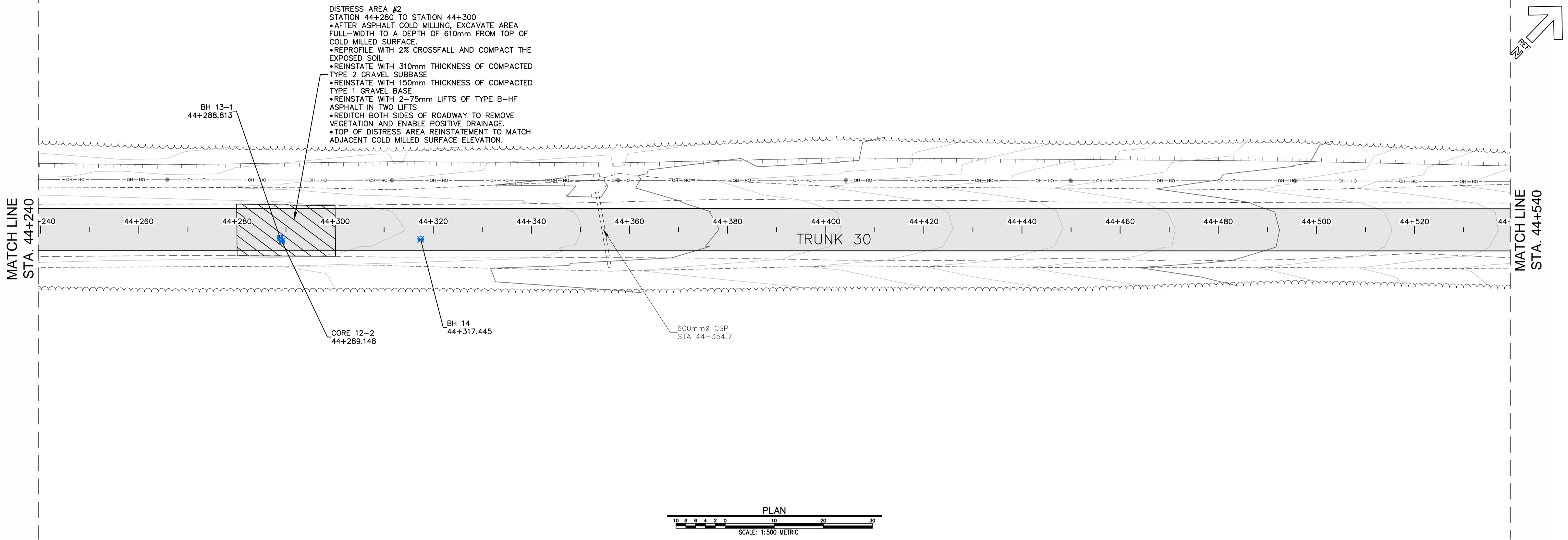
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revisions		date
project		projct

**NORTH MOUNTAIN
PAVEMENT
REHABILITATION
CAPE BRETON HIGHLANDS
NATIONAL PARK**

**PLAN & PROFILE
STATION
44+240 TO 44+540**

designed	D. KOZAK	conçu
date	2017 03 20	
drawn	S. WELLS	dessiné
date	2017 03 20	
approved		approuvé
date		
Tender	<i>SJB</i>	Soumission
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project number		no. du projet

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LEGEND OLD

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- EDGE OF SHOULDER
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- EDGE OF TREES
- RETAINING WALL
- CULVERT
- BORE HOLE
- CORE
- UTILITY POLE
- SIGN
- OVERHEAD LINES

LEGEND NEW

- ☉ TRUNK 30
- EDGE OF PAVE
- ☉ TRUNK 30
- EDGE OF PAVE
- CULVERT
- GUIDE RAIL (WEAK POST)
- GUIDE RAIL (STRONG POST)

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**NORTH MOUNTAIN
PAVEMENT
REHABILITATION
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing

**PLAN & PROFILE
STATION
44+540 TO 44+840**

designed D. KOZAK

date 2017 03 20

drawn S. WELLS

date 2017 03 20

approved

date

Tender

PCA Project Manager

project number

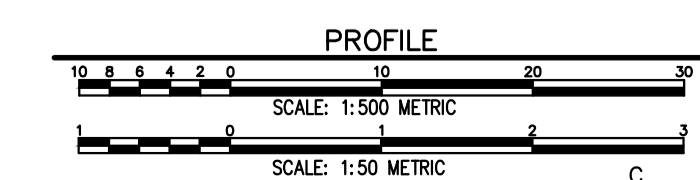
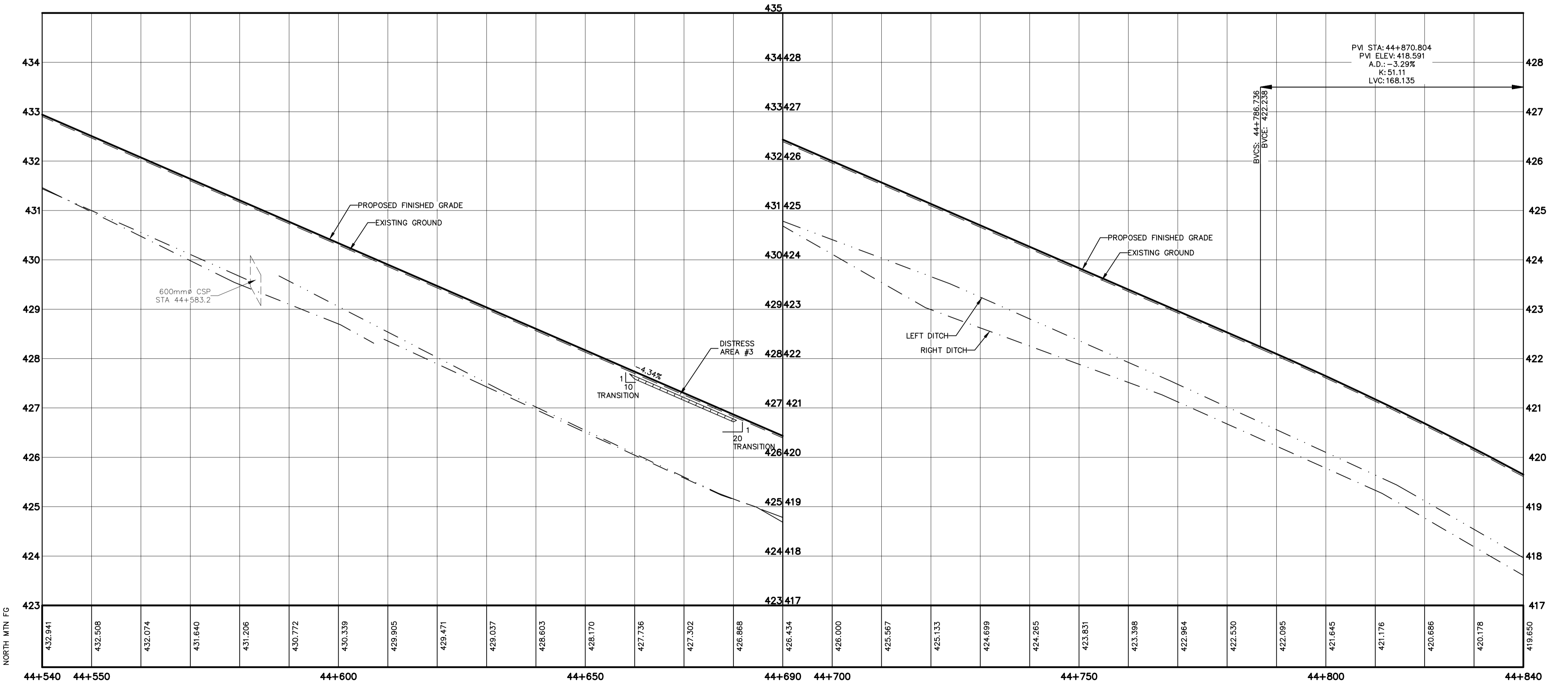
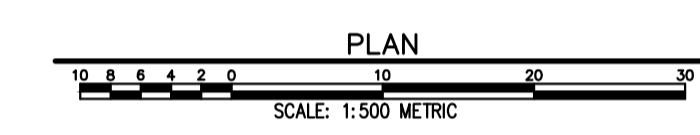
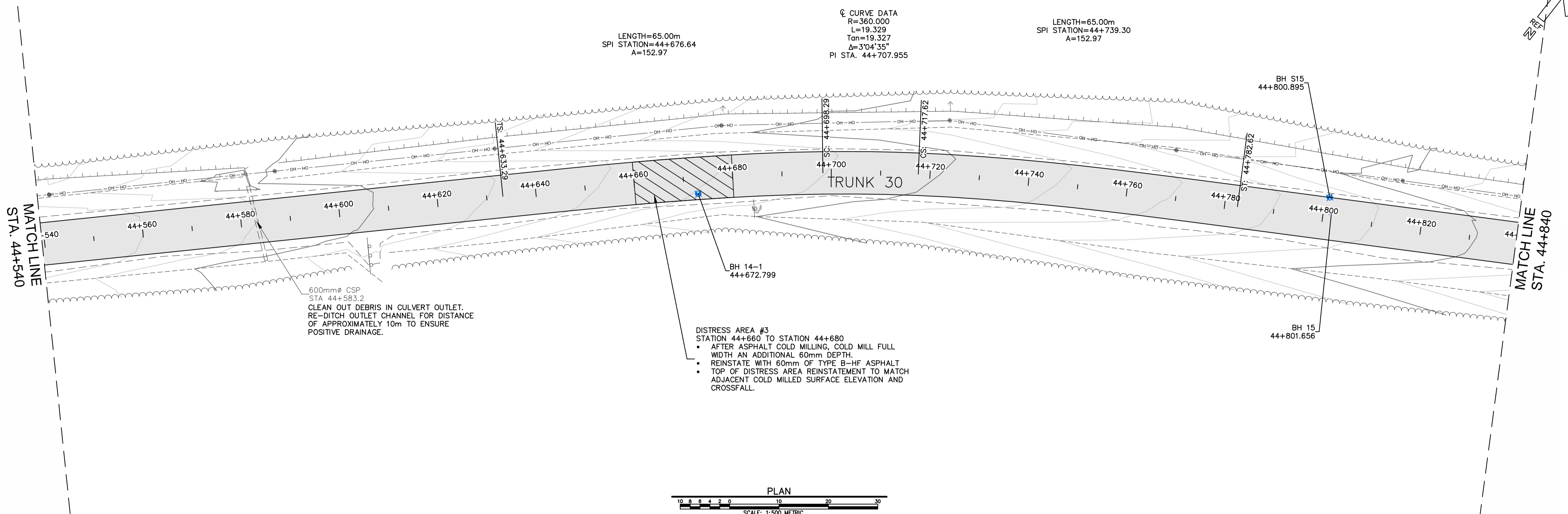
no. du projet

671

drawing no.

no. du dessin

C17 OF C29



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LEGEND OLD	
GUIDE RAIL	
EDGE OF SHOULDER	
BOTTOM OF SLOPE	
EDGE OF TREES	
RETAINING WALL	
CULVERT	
BORE HOLE	BH
CORE	CORE
UTILITY POLE	
SIGN	
OVERHEAD LINES	
LEGEND NEW	
TRUNK 30	
EDGE OF PAVE	
EDGE OF PAVE	
CULVERT	
GUIDE RAIL (WEAK POST)	
GUIDE RAIL (STRONG POST)	

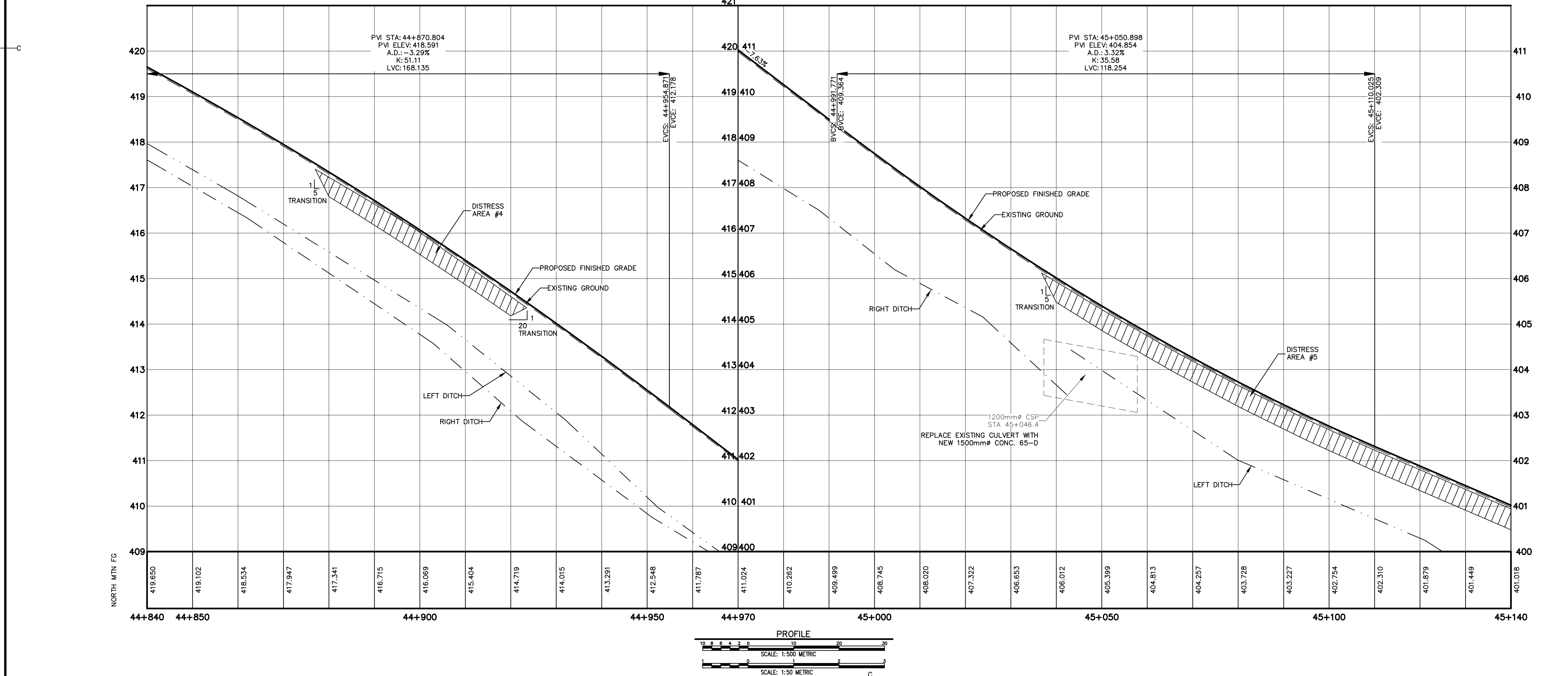
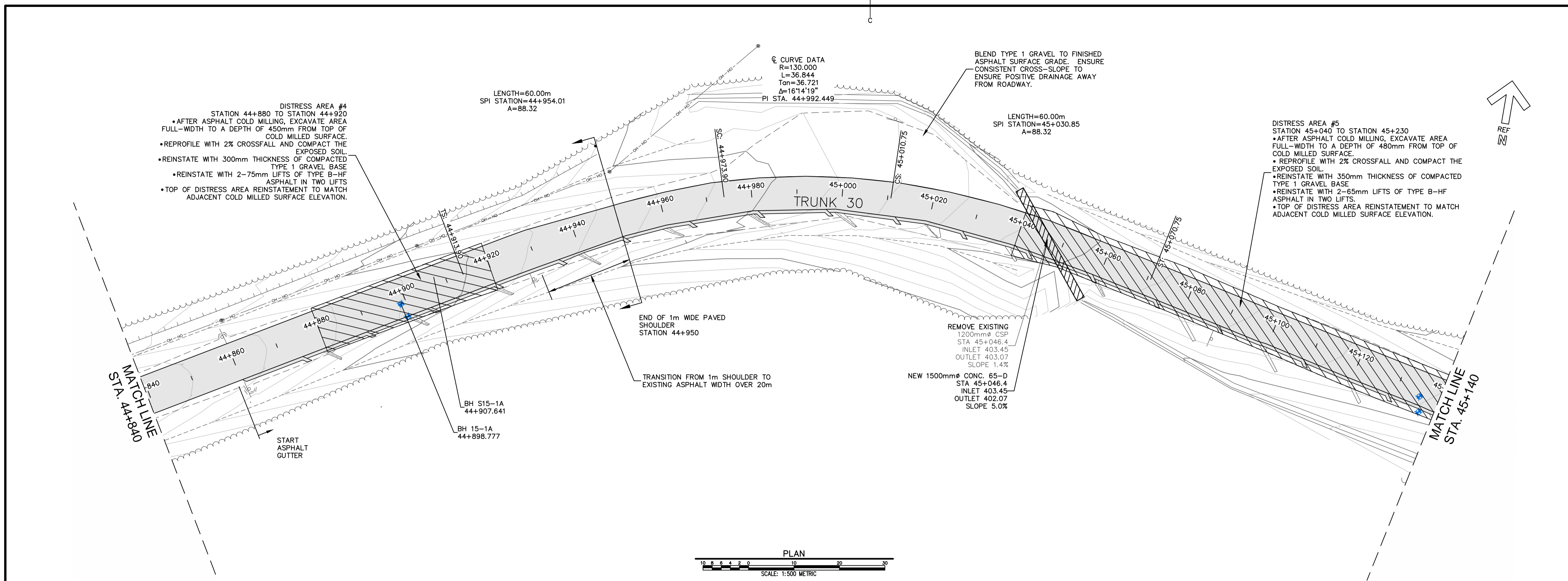
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project
NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK
 drawing
 dessein

PLAN & PROFILE STATION 44+840 TO 45+140

designed	D. KOZAK	conçu
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drawn	S. WELLS	dessiné
date	2017 03 20	
approved		approuvé
date		
Tender		Soumission
PCA Project Manager		Administrateur de projets TPSGC
project number		no. du projet

671
 drawing no. no. du dessein
C18 OF C29





LEGEND OLD

- GUIDE RAIL
- EDGE OF SHOULDER
- BOTTOM OF SLOPE
- EDGE OF TREES
- RETAINING WALL
- CULVERT
- BORE HOLE
- CORE
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- SIGN
- OVERHEAD LINES

LEGEND NEW

- TRUNK 30
- EDGE OF PAVE
- EDGE OF PAVE
- CULVERT
- GUIDE RAIL (WEAK POST)
- GUIDE RAIL (STRONG POST)

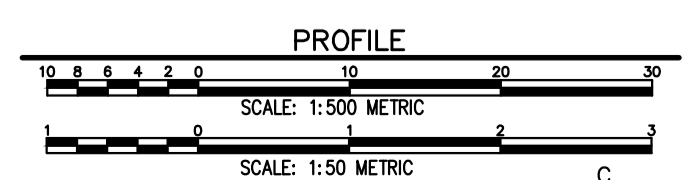
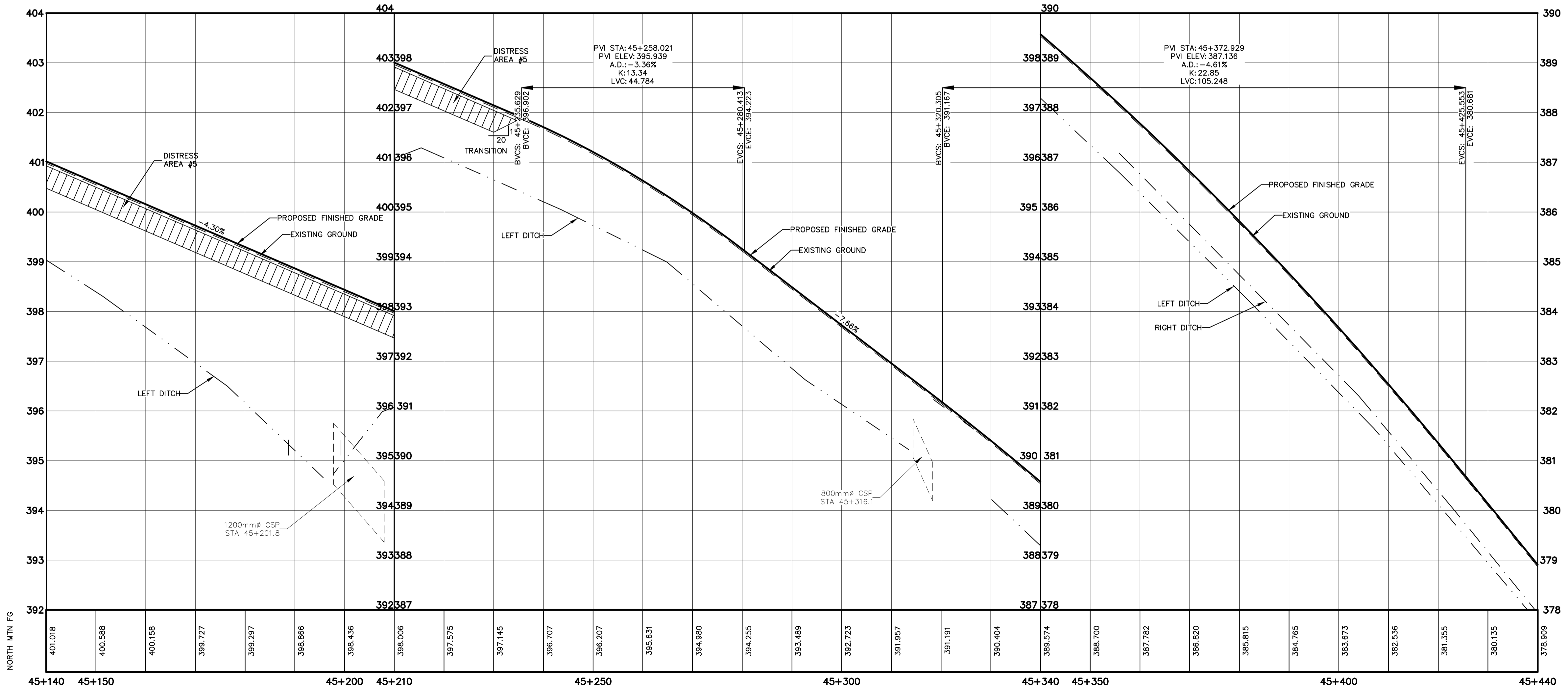
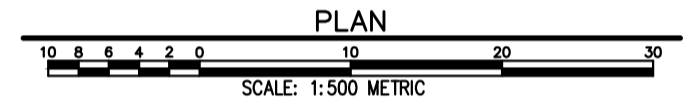
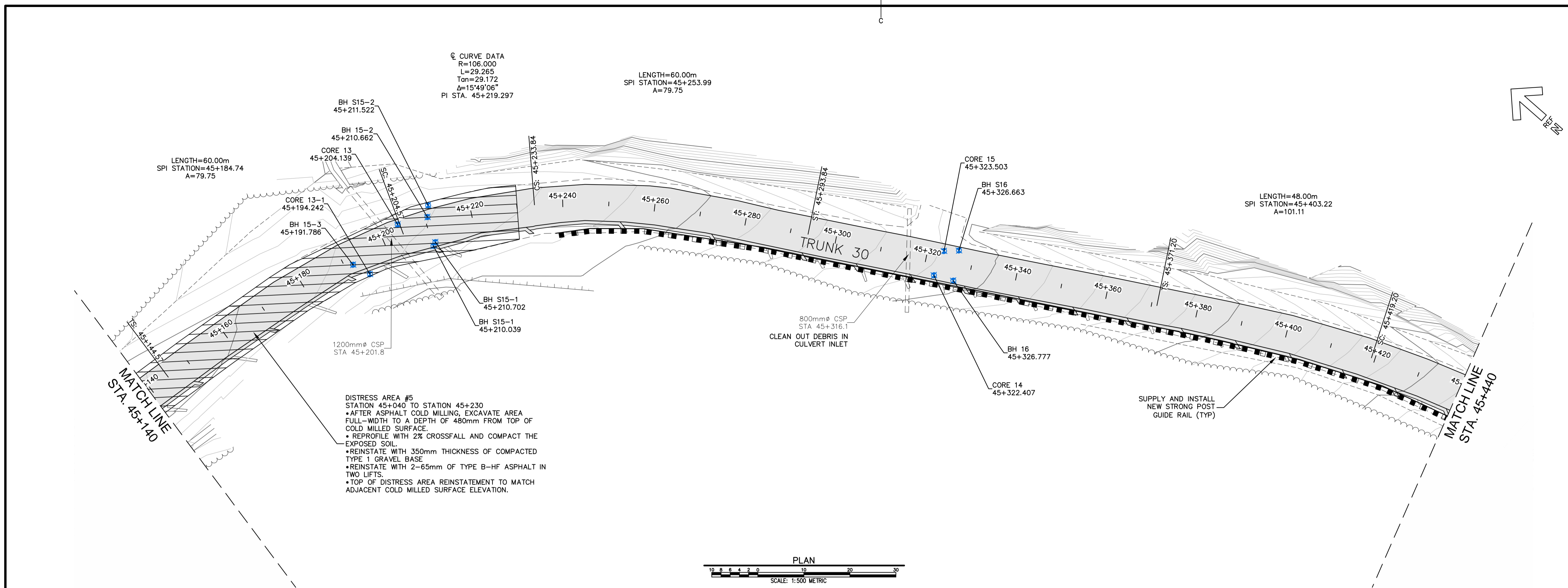
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NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK

PLAN & PROFILE STATION 45+140 TO 45+440

designed	D. KOZAK	conçu
date	2017 03 20	
drawn	S. WELLS	dessiné
date	2017 03 20	
approved		approuvé
date		
Tender	<i>SJB</i>	Soumission
PCA Project Manager		Administrateur de projets TPSGC
project number		no. du projet

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LEGEND OLD

- GUIDE RAIL
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- BORE HOLE
- CORE
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- SIGN
- OVERHEAD LINES

LEGEND NEW

- ☉ TRUNK 30
- EDGE OF PAVE
- ☉ TRUNK 30
- EDGE OF PAVE
- CULVERT
- GUIDE RAIL (WEAK POST)
- GUIDE RAIL (STRONG POST)

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revisions		date
project		project

**NORTH MOUNTAIN
PAVEMENT
REHABILITATION
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing design

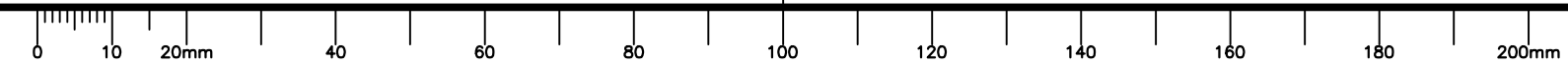
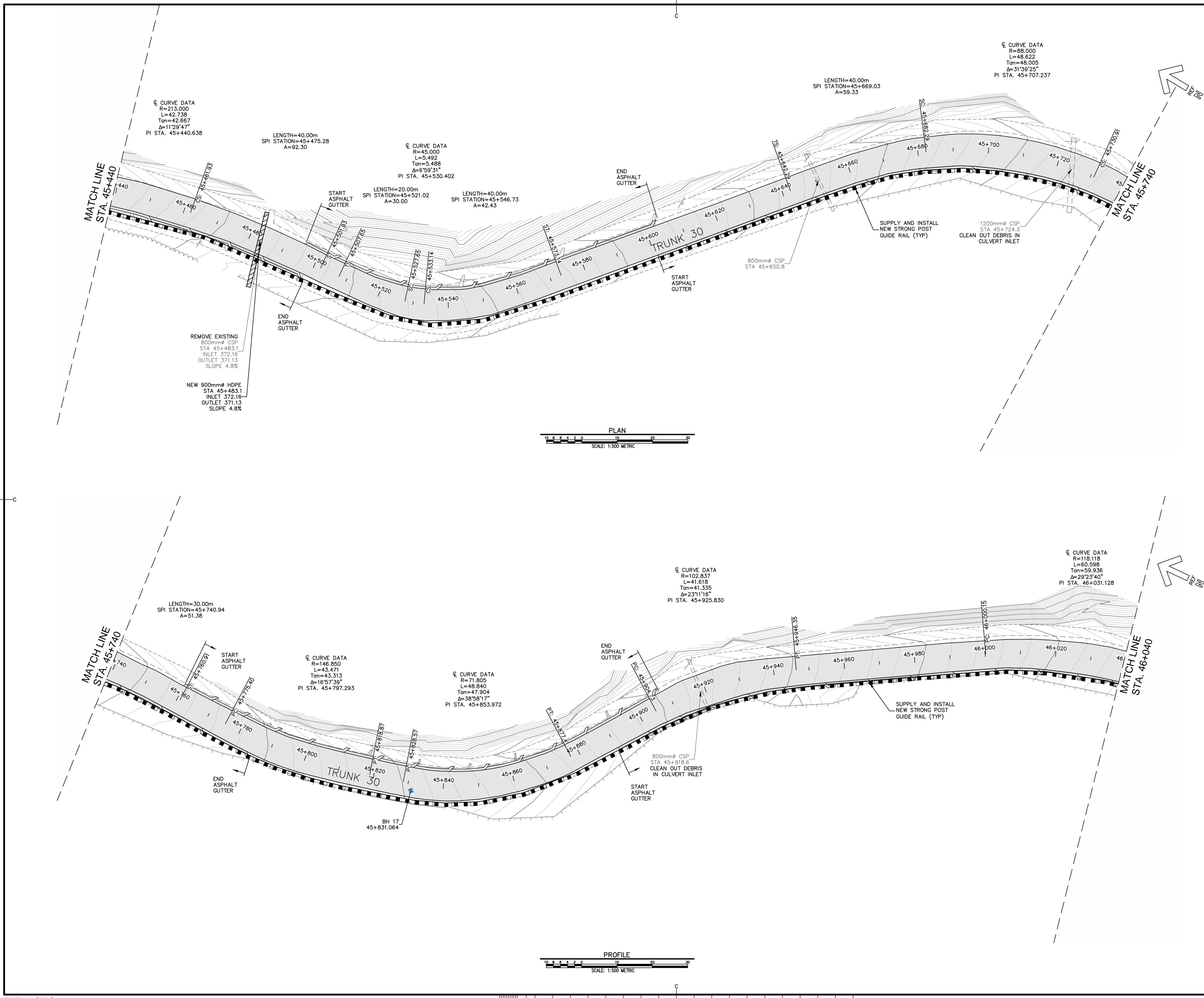
**PLAN
STATION
45+440 TO 46+040**

designed	D. KOZAK	conçu
date	2017 03 20	
drawn	S. WELLS	dessiné
date	2017 03 20	
approved		approuvé
date		
Tender	<i>SJB</i>	Soumission
PCA Project Manager		Administrateur de projets TPSGC
project number		no. du projet

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drawing no. no. du dessin

C20 OF C29



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LEGEND OLD

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LEGEND NEW

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- EDGE OF PAVE
- ☉ TRUNK 30
- EDGE OF PAVE
- CULVERT
- GUIDE RAIL (WEAK POST)
- GUIDE RAIL (STRONG POST)

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project		projct

NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK

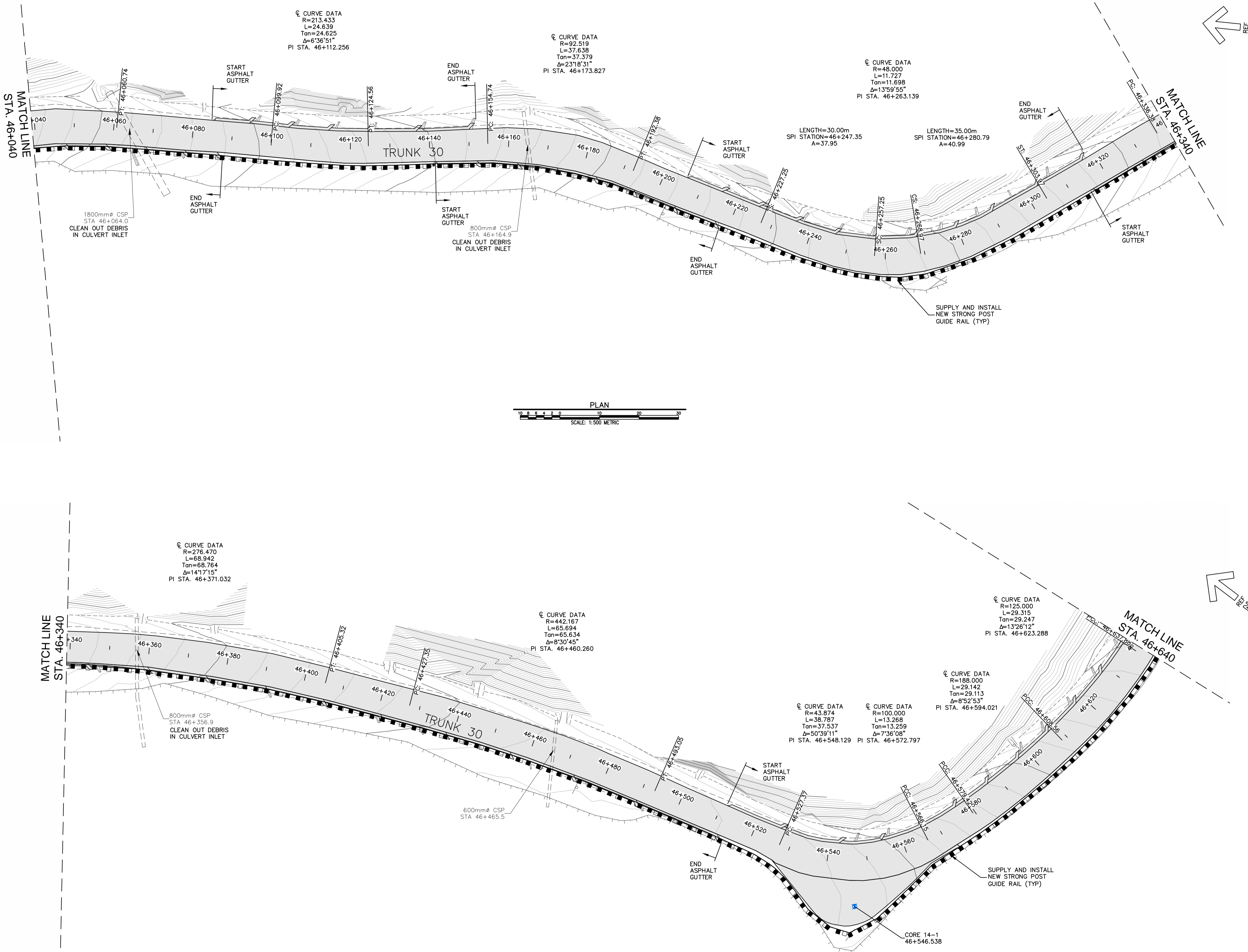
drawing dessin

PLAN STATION 46+040 TO 46+640

designed	D. KOZAK	conçu
date	2017 03 20	
drawn	S. WELLS	dessiné
date	2017 03 20	
approved		approuvé
date		
Tender	<i>SJB</i>	Soumission
PCA Project Manager		Administrateur de projets TPSGC
project number		no. du projet

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C21 OF C29



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LEGEND OLD

- GUIDE RAIL
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LEGEND NEW

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- EDGE OF PAVE
- CULVERT
- GUIDE RAIL (WEAK POST)
- GUIDE RAIL (STRONG POST)

0	ISSUED FOR TENDER	MAR 2017
revisions		date
project		project

NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK

drawing dessein

PLAN STATION 46+640 TO 47+224.120

designed D. KOZAK conçu

date 2017 03 20

drawn S. WELLS dessiné

date 2017 03 20

approved approuvé

date

Tender *SJB* Soumission 2017 03 20

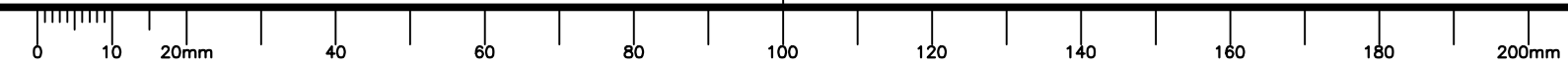
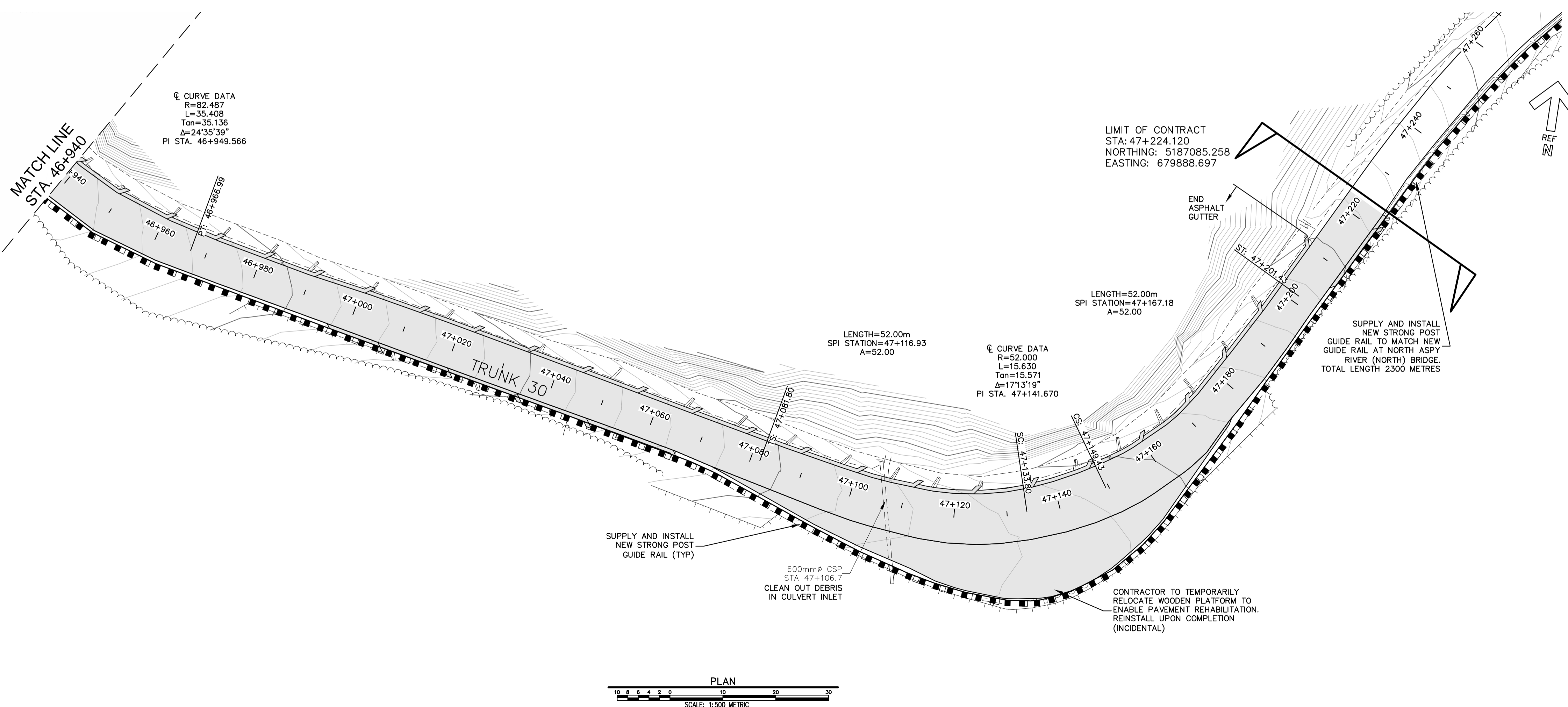
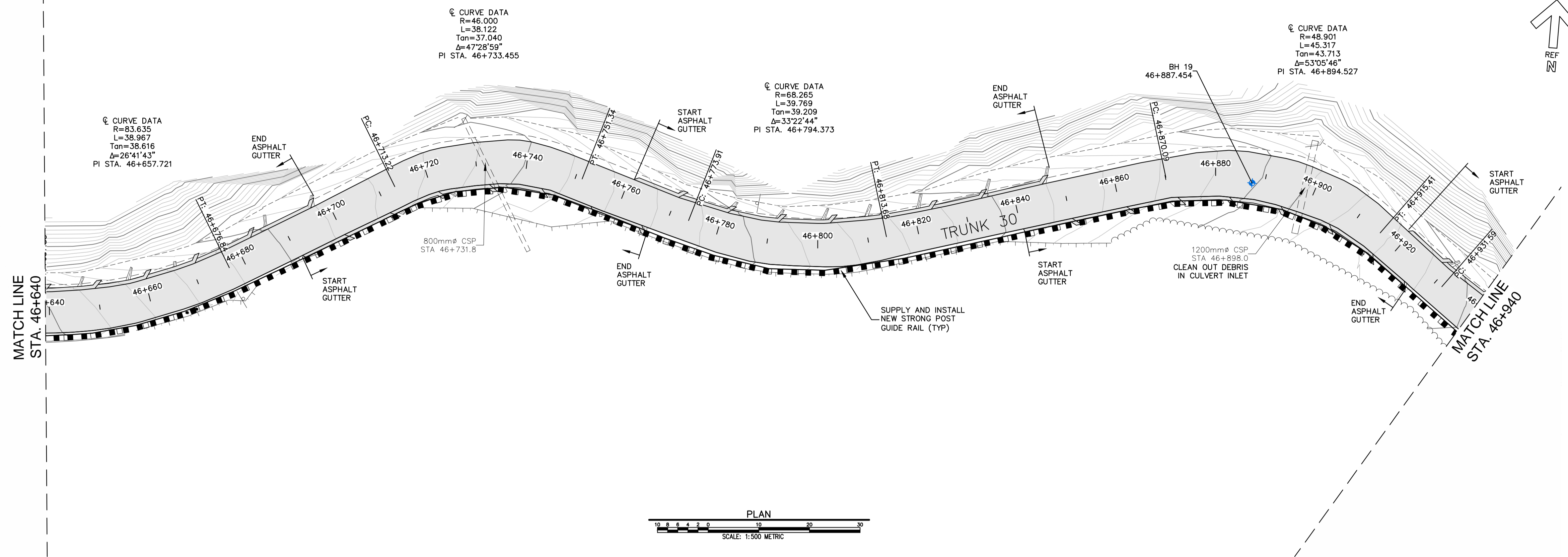
PCA Project Manager Administrateur de projets TPSGC

project number no. du projet

671

drawing no. no. du dessin

C22 OF C29



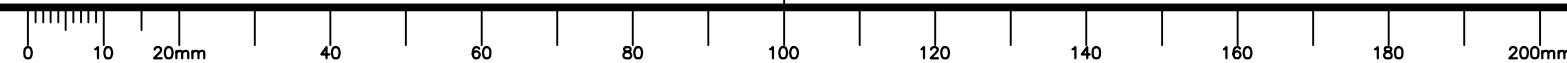
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Curve Table: North Mountain							
Curve #	Radius	Length	Chord Direction	Start Point	PI	End Point	
NM L1		71.05		STA. 38+219.369 E: 673038.59 N: 5186527.57	E: 673156.052 N: 5186500.447	STA. 38+290.423 E: 673107.82 N: 5186511.58	
NM C1	175.00	96.48	S61° 12' 17.52"E	STA. 38+290.423 E: 673107.82 N: 5186511.58	E: 673156.052 N: 5186500.447	STA. 38+386.899 E: 673191.30 N: 5186465.70	31°35'11"
NM L2		344.59		STA. 38+386.899 E: 673191.30 N: 5186465.70	E: 673461.514 N: 5186199.343	STA. 38+731.488 E: 673436.71 N: 5186223.79	
NM C2	155.00	68.52	S58° 04' 35.38"E	STA. 38+731.488 E: 673436.71 N: 5186223.79	E: 673461.514 N: 5186199.343	STA. 38+800.011 E: 673494.40 N: 5186187.85	25°19'47"
NM L3		35.76		STA. 38+800.011 E: 673494.40 N: 5186187.85	E: 673645.763 N: 5186134.969	STA. 38+835.768 E: 673528.15 N: 5186176.06	
NM S1		60.00		STA. 38+835.768 E: 673528.15 N: 5186176.06	E: 673645.763 N: 5186134.969	STA. 38+895.768 E: 673585.43 N: 5186158.30	6°05'43"
NM C3	282.00	122.22	S89° 15' 09.19"E	STA. 38+895.768 E: 673585.43 N: 5186158.30	E: 673645.763 N: 5186134.969	STA. 39+017.986 E: 673706.68 N: 5186156.72	24°49'55"
NM S2		60.00		STA. 39+017.986 E: 673706.68 N: 5186156.72	E: 673645.763 N: 5186134.969	STA. 39+077.986 E: 673764.41 N: 5186172.98	6°05'43"
NM L4		32.53		STA. 39+077.986 E: 673764.41 N: 5186172.98	E: 673818.603 N: 5186190.341	STA. 39+110.512 E: 673795.38 N: 5186182.90	
NM C4	580.00	48.74	N74° 38' 36.33"E	STA. 39+110.512 E: 673795.38 N: 5186182.90	E: 673818.603 N: 5186190.341	STA. 39+159.248 E: 673842.36 N: 5186195.81	4°48'52"
NM L5		115.49		STA. 39+159.248 E: 673842.36 N: 5186195.81	E: 673982.356 N: 5186227.994	STA. 39+274.737 E: 673954.92 N: 5186221.69	
NM C5	218.36	56.00	N84° 23' 51.37"E	STA. 39+274.737 E: 673954.92 N: 5186221.69	E: 673982.356 N: 5186227.994	STA. 39+330.737 E: 674010.50 N: 5186227.14	14°41'38"
NM L6		101.43		STA. 39+330.737 E: 674010.50 N: 5186227.14	E: 674111.882 N: 5186224.049	STA. 39+432.169 E: 674111.88 N: 5186224.05	
NM L7		131.41		STA. 39+432.169 E: 674111.88 N: 5186224.05	E: 674237.043 N: 5186221.431	STA. 39+563.579 E: 674243.26 N: 5186221.30	
NM S3		40.00		STA. 39+563.579 E: 674243.26 N: 5186221.30	E: 674581.515 N: 5186214.224	STA. 39+603.579 E: 674283.14 N: 5186218.63	7°54'10"
NM C6	145.00	3.14	S80° 16' 40.19"E	STA. 39+603.579 E: 674283.14 N: 5186218.63	E: 674581.515 N: 5186214.224	STA. 39+606.722 E: 674286.24 N: 5186218.10	11°4'30"
NM S4		45.00		STA. 39+606.722 E: 674286.24 N: 5186218.10	E: 674581.515 N: 5186214.224	STA. 39+651.722 E: 674329.39 N: 5186205.50	8°53'27"
NM S5		45.00		STA. 39+651.722 E: 674329.39 N: 5186205.50	E: 674581.515 N: 5186214.224	STA. 39+696.722 E: 674372.41 N: 5186192.42	6°58'06"
NM C7	185.00	46.25	S84° 53' 49.45"E	STA. 39+696.722 E: 674372.41 N: 5186192.42	E: 674581.515 N: 5186214.224	STA. 39+742.974 E: 674418.36 N: 5186188.32	14°19'29"
NM S6		50.00		STA. 39+742.974 E: 674418.36 N: 5186188.32	E: 674581.515 N: 5186214.224	STA. 39+792.974 E: 674467.93 N: 5186194.60	7°44'34"
NM L8		54.88		STA. 39+792.974 E: 674467.93 N: 5186194.60	E: 674545.274 N: 5186207.963	STA. 39+847.853 E: 674522.01 N: 5186203.94	
NM C8	80.00	45.92	S83° 21' 24.76"E	STA. 39+847.853 E: 674522.01 N: 5186203.94	E: 674545.274 N: 5186207.963	STA. 39+893.777 E: 674567.00 N: 5186198.70	32°53'26"
NM L9		74.43		STA. 39+893.777 E: 674567.00 N: 5186198.70	E: 674698.654 N: 5186142.578	STA. 39+968.211 E: 674635.47 N: 5186153.07	
NM S7		45.00		STA. 39+968.211 E: 674635.47 N: 5186153.07	E: 674698.654 N: 5186142.578	STA. 40+013.211 E: 674677.34 N: 5186153.07	4°57'30"
NM C9	260.00	46.32	S76° 58' 24.83"E	STA. 40+013.211 E: 674677.34 N: 5186153.07	E: 674698.654 N: 5186142.578	STA. 40+059.530 E: 674722.41 N: 5186142.65	10°12'26"
NM S8		45.00		STA. 40+059.530 E: 674722.41 N: 5186142.65	E: 674698.654 N: 5186142.578	STA. 40+104.530 E: 674767.25 N: 5186139.03	4°57'30"
NM L10		17.51		STA. 40+104.530 E: 674767.25 N: 5186139.03	E: 674807.551 N: 5186136.939	STA. 40+122.042 E: 674784.74 N: 5186138.12	
NM C10	170.00	45.42	S79° 22' 55.71"E	STA. 40+122.042 E: 674784.74 N: 5186138.12	E: 674807.551 N: 5186136.939	STA. 40+167.458 E: 674829.24 N: 5186129.78	15°18'24"
NM L11		40.15		STA. 40+167.458 E: 674829.24 N: 5186129.78	E: 674886.337 N: 5186110.927	STA. 40+207.607 E: 674867.37 N: 5186117.19	
NM C11	50.00	38.01	S49° 56' 59.96"E	STA. 40+207.607 E: 674867.37 N: 5186117.19	E: 674886.337 N: 5186110.927	STA. 40+245.618 E: 674895.77 N: 5186093.32	43°33'27"

Curve Table: North Mountain							
Curve #	Radius	Length	Chord Direction	Start Point	PI	End Point	
NM L12		13.54		STA. 40+245.618 E: 674895.77 N: 5186093.32	E: 674912.510 N: 5186062.056	STA. 40+259.161 E: 674902.16 N: 5186081.38	
NM C12	200.00	43.66	S34° 25' 30.21"E	STA. 40+259.161 E: 674902.16 N: 5186081.38	E: 674912.510 N: 5186062.056	STA. 40+302.821 E: 674926.80 N: 5186045.43	12°30'28"
NM L13		57.48		STA. 40+302.821 E: 674926.80 N: 5186045.43	E: 675011.879 N: 5185946.443	STA. 40+360.299 E: 674964.26 N: 5186001.84	
NM C13	127.00	43.47	S50° 29' 07.52"E	STA. 40+360.299 E: 674964.26 N: 5186001.84	E: 675011.879 N: 5185946.443	STA. 40+403.773 E: 674997.64 N: 5185974.32	19°36'47"
NM S9		25.00		STA. 40+403.773 E: 674997.64 N: 5185974.32	E: 675011.879 N: 5185946.443	STA. 40+428.773 E: 675020.25 N: 5185963.71	8°06'32"
NM C14	290.00	80.62	S76° 21' 55.80"E	STA. 40+428.773 E: 675020.25 N: 5185963.71	E: 675011.879 N: 5185946.443	STA. 40+509.398 E: 675098.35 N: 5185944.77	15°55'45"
NM S10		40.00		STA. 40+509.398 E: 675098.35 N: 5185944.77	E: 675011.879 N: 5185946.443	STA. 40+549.398 E: 675138.29 N: 5185942.65	3°57'05"
NM L14		74.08		STA. 40+549.398 E: 675138.29 N: 5185942.65	E: 675241.977 N: 5185939.540	STA. 40+623.478 E: 675121.33 N: 5185940.43	
NM C15	75.00	56.48	N70° 08' 37.02"E	STA. 40+623.478 E: 675121.33 N: 5185940.43	E: 675241.977 N: 5185939.540	STA. 40+679.961 E: 675264.21 N: 5185959.16	43°08'59"
NM L15		55.80		STA. 40+679.961 E: 675264.21 N: 5185959.16	E: 675336.045 N: 5186022.562	STA. 40+735.761 E: 675306.05 N: 5185996.09	
NM C16	130.02	77.62	N65° 40' 21.88"E	STA. 40+735.761 E: 675306.05 N: 5185996.09	E: 675336.045 N: 5186022.562	STA. 40+813.386 E: 675375.74 N: 5186027.59	34°12'29"
NM L16		119.84		STA. 40+813.386 E: 675375.74 N: 5186027.59	E: 675517.887 N: 5186045.609	STA. 40+933.226 E: 675494.62 N: 5186042.66	
NM C17	36.00	41.57	N49° 41' 55.47"E	STA. 40+933.226 E: 675494.62 N: 5186042.66	E: 675517.887 N: 5186045.609	STA. 40+974.793 E: 675524.59 N: 5186068.08	66°09'21"
NM L17		33.37		STA. 40+974.793 E: 675524.59 N: 5186068.08	E: 675539.711 N: 5186118.719	STA. 41+008.166 E: 675534.14 N: 5186100.06	
NM C18	113.00	38.58	N26° 24' 01.48"E	STA. 41+008.166 E: 675534.14 N: 5186100.06	E: 675539.711 N: 5186118.719	STA. 41+046.741 E: 675551.21 N: 5186134.44	19°33'34"
NM L18		28.36		STA. 41+046.741 E: 675551.21 N: 5186134.44	E: 675585.380 N: 5186181.164	STA. 41+075.105 E: 675567.95 N: 5186157.34	
NM C19	166.00	58.43	N26° 05' 45.31"E	STA. 41+075.105 E: 675567.95 N: 5186157.34	E: 675585.380 N: 5186181.164	STA. 41+133.538 E: 675593.52 N: 5186209.54	20°10'06"
NM L19		65.69		STA. 41+133.538 E: 675593.52 N: 5186209.54	E: 675618.054 N: 5186295.024	STA. 41+199.226 E: 675611.64 N: 5186272.68	
NM C20	333.70	46.41	N19° 59' 47.12"E	STA. 41+199.226 E: 675611.64 N: 5186272.68	E: 675618.054 N: 5186295.024	STA. 41+245.640 E: 675627.50 N: 5186316.26	7°58'10"
NM L20		10.76		STA. 41+245.640 E: 675627.50 N: 5186316.26	E: 675641.236 N: 5186347.138	STA. 41+256.397 E: 675631.87 N: 5186326.09	
NM C21	112.31	45.44	N35° 34' 19.72"E	STA. 41+256.397 E: 675631.87 N: 5186326.09	E: 675641.236 N: 5186347.138	STA. 41+301.839 E: 675658.13 N: 5186362.80	23°10'56"
NM L21		21.95		STA. 41+301.839 E: 675658.13 N: 5186362.80	E: 675686.879 N: 5186389.458	STA. 41+323.785 E: 675674.22 N: 5186377.72	
NM C22	153.03	34.38	N40° 43' 38.19"E	STA. 41+323.785 E: 675674.22 N: 5186377.72	E: 675686.879 N: 5186389.458	STA. 41+358.165 E: 675712.46 N: 5186426.98	12°52'19"
NM L22		28.15		STA. 41+358.165 E: 675712.46 N: 5186426.98	E: 675737.492 N: 5186463.678	STA. 41+386.313 E: 675738.61 N: 5186456.95	
NM S11		40.00		STA. 41+386.313 E: 675738.61 N: 5186456.95	E: 675737.492 N: 5186463.678	STA. 41+426.313 E: 675738.61 N: 5186456.95	20°27'46"
NM C23	56.00	5.35	N57° 29' 23.95"E	STA. 41+426.313 E: 675738.61 N: 5186456.95	E: 675737.492 N: 5186463.678	STA. 41+431.661 E: 675743.12 N: 5186470.87	5°28'18"
NM S12		40.00		STA. 41+431.661 E: 675743.12 N: 5186470.87	E: 675737.492 N: 5186463.678	STA. 41+471.661 E: 675781.33 N: 5186470.87	20°27'46"
NM L23		59.06		STA. 41+471.661 E: 675781.33 N: 5186470.87	E: 675888.977 N: 5186488.515	STA. 41+530.724 E: 675839.61 N: 5186480.42	
NM C24	1140.39	99.98	N78° 10' 37.32"E	STA. 41+530.724 E: 675839.61 N: 5186480.42	E: 675888.977 N: 5186488.515	STA. 41+630.703 E: 675937.44 N: 5186500.90	5°01'23"
NM L24		37.19		STA. 41+630.703 E: 675937.44 N: 5186500.90	E: 676009.960 N: 5186519.431	STA. 41+667.895 E: 675973.48 N: 5186510.11	

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revisions		date
project		project
NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK		
drawing		dessin
ALIGNMENT GEOMETRY I		
designed	D. KOZAK	conçu
date	2017 03 20	
drawn	S. WELLS	dessiné
date	2017 03 20	
approved		approuvé
date		
Tender	<i>SJB</i>	Soumission
PCA Project Manager		2017 03 20
Administrateur de projets TPSGC		
project number		no. du projet
671		
drawing no.		no. du dessin
C23 OF C29		





Curve Table: North Mountain							
Curve #	Radius	Length	Chord Direction	Start Point	PI	End Point	
NM C25	332.28	74.99	N82° 07' 51.68"E	STA. 41+667.895 E: 675973.48 N: 5186510.11	E: 676009.960 N: 5186519.431	STA. 41+742.888 E: 676047.60 N: 5186520.35	12°55'52"
NM L25		608.37		STA. 41+742.888 E: 676047.60 N: 5186520.35	E: 676907.544 N: 5186541.421	STA. 42+351.259 E: 676655.79 N: 5186535.25	
NM S13		70.00		STA. 42+351.259 E: 676655.79 N: 5186535.25	E: 676907.544 N: 5186541.421	STA. 42+421.259 E: 676725.68 N: 5186538.86	4°39'10"
NM C26	431.00	331.41	N61° 54' 54.75"E	STA. 42+421.259 E: 676725.68 N: 5186538.86	E: 676907.544 N: 5186541.421	STA. 42+752.674 E: 677010.92 N: 5186691.07	44°03'26"
NM S14		70.00		STA. 42+752.674 E: 677010.92 N: 5186691.07	E: 676907.544 N: 5186541.421	STA. 42+822.674 E: 677052.83 N: 5186747.11	4°39'10"
NM L26		380.58		STA. 42+822.674 E: 677052.83 N: 5186747.11	E: 677272.385 N: 5187057.970	STA. 43+203.250 E: 677272.39 N: 5187057.97	
NM L27		155.56		STA. 43+203.250 E: 677272.39 N: 5187057.97	E: 677409.387 N: 5187253.556	STA. 43+358.808 E: 677361.63 N: 5187185.38	
NM C27	860.11	165.96	N40° 32' 14.80"E	STA. 43+358.808 E: 677361.63 N: 5187185.38	E: 677409.387 N: 5187253.556	STA. 43+524.768 E: 677469.33 N: 5187311.31	11°03'19"
NM L28		510.79		STA. 43+524.768 E: 677469.33 N: 5187311.31	E: 677837.166 N: 5187665.721	STA. 44+035.562 E: 677837.17 N: 5187665.72	
NM L29		597.73		STA. 44+035.562 E: 677837.17 N: 5187665.72	E: 678321.391 N: 5188132.584	STA. 44+633.288 E: 678267.47 N: 5188080.59	
NM S15		65.00		STA. 44+633.288 E: 678267.47 N: 5188080.59	E: 678321.391 N: 5188132.584	STA. 44+698.288 E: 678315.58 N: 5188124.26	5°10'21"
NM C28	360.00	19.33	N52° 45' 23.07"E	STA. 44+698.288 E: 678315.58 N: 5188124.26	E: 678321.391 N: 5188132.584	STA. 44+717.617 E: 678330.96 N: 5188135.96	3°04'35"
NM S16		65.00		STA. 44+717.617 E: 678330.96 N: 5188135.96	E: 678321.391 N: 5188132.584	STA. 44+782.617 E: 678385.91 N: 5188170.64	5°10'21"
NM L30		131.29		STA. 44+782.617 E: 678385.91 N: 5188170.64	E: 678568.924 N: 5188278.584	STA. 44+913.903 E: 678498.99 N: 5188237.34	
NM S17		60.00		STA. 44+913.903 E: 678498.99 N: 5188237.34	E: 678568.924 N: 5188278.584	STA. 44+973.903 E: 678552.73 N: 5188263.70	13°13'20"
NM C29	130.00	36.84	N80° 48' 30.37"E	STA. 44+973.903 E: 678552.73 N: 5188263.70	E: 678568.924 N: 5188278.584	STA. 45+010.747 E: 678588.98 N: 5188261.50	16°14'19"
NM S18		60.00		STA. 45+010.747 E: 678588.98 N: 5188261.50	E: 678568.924 N: 5188278.584	STA. 45+070.747 E: 678648.30 N: 5188261.50	13°13'20"
NM L31		73.82		STA. 45+070.747 E: 678648.30 N: 5188261.50	E: 678796.742 N: 5188229.537	STA. 45+144.571 E: 678720.47 N: 5188245.96	
NM S19		60.00		STA. 45+144.571 E: 678720.47 N: 5188245.96	E: 678796.742 N: 5188229.537	STA. 45+204.571 E: 678777.47 N: 5188227.93	16°12'57"
NM C30	106.00	29.26	S53° 43' 30.95"E	STA. 45+204.571 E: 678777.47 N: 5188227.93	E: 678796.742 N: 5188229.537	STA. 45+233.836 E: 678800.99 N: 5188210.67	15°49'06"
NM S20		60.00		STA. 45+233.836 E: 678800.99 N: 5188210.67	E: 678796.742 N: 5188229.537	STA. 45+293.836 E: 678835.28 N: 5188161.70	16°12'57"
NM L32		77.36		STA. 45+293.836 E: 678835.28 N: 5188161.70	E: 678906.940 N: 5188035.555	STA. 45+371.197 E: 678873.49 N: 5188094.43	
NM S21		48.00		STA. 45+371.197 E: 678873.49 N: 5188094.43	E: 678906.940 N: 5188035.555	STA. 45+419.197 E: 678895.61 N: 5188051.86	6°27'21"
NM C31	213.00	42.74	S17° 23' 46.61"E	STA. 45+419.197 E: 678895.61 N: 5188051.86	E: 678906.940 N: 5188035.555	STA. 45+461.935 E: 678913.97 N: 5188011.14	11°29'47"
NM S22		40.00		STA. 45+461.935 E: 678913.97 N: 5188011.14	E: 678906.940 N: 5188035.555	STA. 45+501.935 E: 678913.97 N: 5187971.55	5°22'48"
NM L33		5.72		STA. 45+501.935 E: 678913.97 N: 5187971.55	E: 678917.915 N: 5187935.637	STA. 45+507.652 E: 678914.59 N: 5187965.87	
NM S23		20.00		STA. 45+507.652 E: 678914.59 N: 5187965.87	E: 678917.915 N: 5187935.637	STA. 45+527.652 E: 678918.23 N: 5187946.25	12°43'57"
NM C32	45.00	5.49	S22° 29' 47.84"E	STA. 45+527.652 E: 678918.23 N: 5187946.25	E: 678917.915 N: 5187935.637	STA. 45+533.144 E: 678920.33 N: 5187941.18	6°59'31"
NM S24		40.00		STA. 45+533.144 E: 678920.33 N: 5187941.18	E: 678917.915 N: 5187935.637	STA. 45+573.144 E: 678947.37 N: 5187912.17	25°27'53"
NM L34		69.14		STA. 45+573.144 E: 678947.37 N: 5187912.17	E: 679052.458 N: 5187828.453	STA. 45+642.289 E: 679001.45 N: 5187869.09	

Curve Table: North Mountain							
Curve #	Radius	Length	Chord Direction	Start Point	PI	End Point	
NM S25		40.00		STA. 45+642.289 E: 679001.45 N: 5187869.09	E: 679052.458 N: 5187828.453	STA. 45+682.289 E: 679030.69 N: 5187841.93	13°01'18"
NM C33	88.00	48.62	S22° 36' 25.91"E	STA. 45+682.289 E: 679030.69 N: 5187841.93	E: 679052.458 N: 5187828.453	STA. 45+730.910 E: 679049.29 N: 5187797.62	31°39'25"
NM S26		30.00		STA. 45+730.910 E: 679049.29 N: 5187797.62	E: 679052.458 N: 5187828.453	STA. 45+760.910 E: 679049.29 N: 5187767.66	9°45'59"
NM L35		14.49		STA. 45+760.910 E: 679049.29 N: 5187767.66	E: 679047.389 N: 5187731.322	STA. 45+775.398 E: 679048.53 N: 5187753.19	
NM C34	146.85	43.47	S5° 29' 34.31"E	STA. 45+775.398 E: 679048.53 N: 5187753.19	E: 679047.389 N: 5187731.322	STA. 45+818.869 E: 679052.68 N: 5187710.07	16°57'39"
NM L36		9.70		STA. 45+818.869 E: 679052.68 N: 5187710.07	E: 679061.153 N: 5187676.009	STA. 45+828.565 E: 679055.02 N: 5187700.66	
NM C35	71.80	48.84	S33° 27' 32.25"E	STA. 45+828.565 E: 679055.02 N: 5187700.66	E: 679061.153 N: 5187676.009	STA. 45+877.405 E: 679081.43 N: 5187660.70	38°58'17"
NM L37		27.33		STA. 45+877.405 E: 679081.43 N: 5187660.70	E: 679120.075 N: 5187631.519	STA. 45+904.732 E: 679103.24 N: 5187644.23	
NM C36	102.84	41.62	S41° 21' 02.52"E	STA. 45+904.732 E: 679103.24 N: 5187644.23	E: 679120.075 N: 5187631.519	STA. 45+946.350 E: 679130.55 N: 5187613.20	23°11'16"
NM L38		53.80		STA. 45+946.350 E: 679130.55 N: 5187613.20	E: 679172.623 N: 5187539.604	STA. 46+000.147 E: 679157.25 N: 5187566.50	
NM C37	118.12	60.60	S15° 03' 34.70"E	STA. 46+000.147 E: 679157.25 N: 5187566.50	E: 679172.623 N: 5187539.604	STA. 46+060.745 E: 679172.82 N: 5187508.62	29°23'40"
NM L39		39.18		STA. 46+060.745 E: 679172.82 N: 5187508.62	E: 679173.145 N: 5187457.112	STA. 46+099.923 E: 679173.07 N: 5187469.45	
NM C38	213.43	24.64	S3° 40' 10.49"E	STA. 46+099.923 E: 679173.07 N: 5187469.45	E: 679173.145 N: 5187457.112	STA. 46+124.562 E: 679174.64 N: 5187444.87	6°36'51"
NM L40		30.18		STA. 46+124.562 E: 679174.64 N: 5187444.87	E: 679180.627 N: 5187395.971	STA. 46+154.744 E: 679178.31 N: 5187414.91	
NM C39	92.52	37.64	S4° 40' 39.37"W	STA. 46+154.744 E: 679178.31 N: 5187414.91	E: 679180.627 N: 5187395.971	STA. 46+192.382 E: 679175.26 N: 5187377.66	23°18'31"
NM L41		34.86		STA. 46+192.382 E: 679175.26 N: 5187377.66	E: 679154.346 N: 5187306.282	STA. 46+227.246 E: 679165.46 N: 5187344.20	
NM S27		30.00		STA. 46+227.246 E: 679165.46 N: 5187344.20	E: 679154.346 N: 5187306.282	STA. 46+257.246 E: 679160.08 N: 5187314.82	17°54'18"
NM C40	48.00	11.73	S8° 34' 20.44"E	STA. 46+257.246 E: 679160.08 N: 5187314.82	E: 679154.346 N: 5187306.282	STA. 46+268.973 E: 679161.82 N: 5187303.25	13°59'55"
NM S28		35.00		STA. 46+268.973 E: 679161.82 N: 5187303.25	E: 679154.346 N: 5187306.282	STA. 46+303.973 E: 679178.96 N: 5187272.97	20°53'21"
NM L42		32.41		STA. 46+303.973 E: 679178.96 N: 5187272.97	E: 679218.812 N: 5187219.037	STA. 46+336.381 E: 679198.22 N: 5187246.91	
NM C41	276.47	68.94	S29° 19' 01.01"E	STA. 46+336.381 E: 679198.22 N: 5187246.91	E: 679218.812 N: 5187219.037	STA. 46+405.323 E: 679231.89 N: 5187186.95	14°17'15"
NM L43		22.03		STA. 46+405.323 E: 679231.89 N: 5187186.95	E: 679252.623 N: 5187136.074	STA. 46+427.353 E: 679240.20 N: 5187166.55	
NM C42	442.17	65.69	S17° 55' 00.76"E	STA. 46+427.353 E: 679240.20 N: 5187166.55	E: 679252.623 N: 5187136.074	STA. 46+493.047 E: 679260.39 N: 5187104.10	8°30'45"
NM L44		34.32		STA. 46+493.047 E: 679260.39 N: 5187104.10	E: 679268.499 N: 5187070.750	STA. 46+527.365 E: 679268.50 N: 5187070.75	
NM C43	43.87	38.79	S38° 59' 13.69"E	STA. 46+527.365 E: 679268.50 N: 5187070.75	E: 679273.403 N: 5187050.573	STA. 46+566.153 E: 679292.12 N: 5187041.57	50°39'11"
NM C44	100.00	13.27	S68° 06' 53.31"E	STA. 46+566.153 E: 679292.12 N: 5187041.57	E: 679298.103 N: 5187038.693	STA. 46+579.421 E: 679304.42 N: 5187036.63	7°36'08"
NM C45	188.00	29.14	S76° 21' 24.01"E	STA. 46+579.421 E: 679304.42 N: 5187036.63	E: 679318.298 N: 5187032.099	STA. 46+608.563 E: 679332.71 N: 5187029.76	8°52'53"
NM C46	125.00	29.31	S87° 30' 56.93"E	STA. 46+608.563 E: 679332.71 N: 5187029.76	E: 679347.245 N: 5187027.409	STA. 46+637.878 E: 679361.93 N: 5187028.50	13°26'12"
NM C47	83.63	38.97	N72° 25' 05.42"E	STA. 46+637.878 E: 679361.93 N: 5187028.50	E: 679381.720 N: 5187029.961	STA. 46+676.845 E: 679398.74 N: 5187040.16	26°41'43"
NM L45		36.38		STA. 46+676.845 E: 679398.74 N: 5187040.16	E: 679447.302 N: 5187069.257	STA. 46+713.222 E: 679429.95 N: 5187058.86	

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revisions		date
project		project
NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK		
drawing		dessin
ALIGNMENT GEOMETRY II		
designed	D. KOZAK	conçu
date	2017 03 20	
drawn	S. WELLS	dessiné
date	2017 03 20	
approved		approuvé
date		
Tender	<i>SJB</i>	Soumission
PCA Project Manager	Administrateur de projets TPSGC	2017 03 20
project number		no. du projet
671		
drawing no.		no. du dessin
C24 OF C29		



Curve Table: North Mountain							
Curve #	Radius	Length	Chord Direction	Start Point	PI	End Point	
NM C48	46.00	38.12	N82° 48' 43.61"E	STA. 46+713.222 E: 679429.95 N: 5187058.86	E: 679447.302 N: 5187069.257	STA. 46+751.344 E: 679466.70 N: 5187063.49	47°28'59"
NM L46		22.56		STA. 46+751.344 E: 679466.70 N: 5187063.49	E: 679507.941 N: 5187051.233	STA. 46+773.907 E: 679488.32 N: 5187057.06	
NM C49	68.26	39.77	N89° 51' 51.10"E	STA. 46+773.907 E: 679488.32 N: 5187057.06	E: 679507.941 N: 5187051.233	STA. 46+813.676 E: 679527.53 N: 5187057.16	33°22'44"
NM L47		56.42		STA. 46+813.676 E: 679527.53 N: 5187057.16	E: 679604.922 N: 5187080.560	STA. 46+870.095 E: 679581.54 N: 5187073.49	
NM C50	48.90	45.32	S80° 16' 37.86"E	STA. 46+870.095 E: 679581.54 N: 5187073.49	E: 679604.922 N: 5187080.560	STA. 46+915.412 E: 679624.62 N: 5187066.11	53°05'46"
NM L48		16.17		STA. 46+915.412 E: 679624.62 N: 5187066.11	E: 679652.157 N: 5187045.900	STA. 46+931.585 E: 679637.66 N: 5187056.54	
NM C51	82.49	35.41	S66° 01' 34.39"E	STA. 46+931.585 E: 679637.66 N: 5187056.54	E: 679652.157 N: 5187045.900	STA. 46+966.993 E: 679669.77 N: 5187042.26	24°35'39"
NM L49		114.80		STA. 46+966.993 E: 679669.77 N: 5187042.26	E: 679847.779 N: 5187005.472	STA. 47+081.795 E: 679782.19 N: 5187017.10	
NM S29		52.00		STA. 47+081.795 E: 679782.19 N: 5187017.10	E: 679847.779 N: 5187005.472	STA. 47+133.795 E: 679833.58 N: 5187017.10	28°38'52"
NM C52	52.00	15.63	N64° 25' 04.10"E	STA. 47+133.795 E: 679833.58 N: 5187017.10	E: 679847.779 N: 5187005.472	STA. 47+149.425 E: 679847.63 N: 5187023.82	17°13'19"
NM S30		52.00		STA. 47+149.425 E: 679847.63 N: 5187023.82	E: 679847.779 N: 5187005.472	STA. 47+201.425 E: 679878.35 N: 5187065.06	28°38'52"
NM L50		65.36		STA. 47+201.425 E: 679878.35 N: 5187065.06	E: 679908.182 N: 5187123.211	STA. 47+266.782 E: 679908.18 N: 5187123.21	

SUPERELEVATION DEVELOPMENT				
CURVE 24	RADIUS =1140.386 (LEFT)			Emax = 0.060
STATION	LEFT LANE	CL ELEV	RIGHT LANE	DESCRIPTION
41+490	---	---	---	Match Existing
41+500	-0.020	402.958	-0.006	
41+509.724	-0.020	404.192	0.000	Level Crown
41+510	-0.020	404.227	0.000	
41+520	-0.020	405.496	0.006	
41+530	-0.020	406.765	0.012	
41+540	-0.020	408.034	0.017	
41+544.724	-0.020	408.634	0.020	Begin Full Super
41+616.703	-0.020	417.614	0.020	End Full Super
41+620	-0.017	417.997	0.017	
41+630	-0.007	419.136	0.007	

SUPERELEVATION DEVELOPMENT				
CURVE 29	RADIUS =130.000 (RIGHT)			Emax = 0.060
STATION	LEFT LANE	CL ELEV	RIGHT LANE	DESCRIPTION
45+040.000	---	---	---	Match Existing
45+050	0.021	405.399	-0.021	
45+050.747	0.020	405.354	-0.020	Reverse Crown
45+060	0.011	404.813	-0.020	
45+070	0.001	404.257	-0.020	
45+070.747	0.000	404.216	-0.020	Level Crown
45+080	-0.005	403.728	-0.020	
45+090	-0.011	403.227	-0.020	
45+100	-0.017	402.754	-0.020	
45+105.747	-0.020	402.495	-0.020	Begin Normal Crown

SUPERELEVATION DEVELOPMENT				
CURVE 25	RADIUS =332.278 (RIGHT)			Emax = 0.060
STATION	LEFT LANE	CL ELEV	RIGHT LANE	DESCRIPTION
41+637.733	0.000	419.994	0.000	Level Crown
41+640	0.002	420.242	-0.002	
41+650	0.012	421.314	-0.012	
41+658.762	0.020	422.226	-0.020	Reverse Crown
41+660	0.021	422.353	-0.021	
41+670	0.031	423.358	-0.031	
41+680	0.040	424.329	-0.040	
41+681.895	0.042	424.510	-0.042	Begin Full Super
41+728.888	0.042	428.595	-0.042	End Full Super
41+730	0.041	428.683	-0.041	
41+740	0.029	429.453	-0.029	
41+747.221	0.020	429.988	-0.020	Reverse Crown
41+750	0.017	430.190	-0.020	
41+760	0.005	430.893	-0.020	
41+763.888	0.000	431.157	-0.020	Level Crown
41+770	-0.003	431.562	-0.020	
41+780	-0.009	432.198	-0.020	
41+790	-0.015	432.800	-0.020	
41+798.888	-0.020	433.307	-0.020	Begin Normal Crown

SUPERELEVATION DEVELOPMENT				
CURVE 30	RADIUS =106.000 (RIGHT)			Emax = 0.060
STATION	LEFT LANE	CL ELEV	RIGHT LANE	DESCRIPTION
45+109.571	-0.020	402.328	-0.020	End Normal Crown
45+110	-0.020	402.310	-0.020	
45+120	-0.014	401.879	-0.020	
45+130	-0.008	401.449	-0.020	
45+140	-0.003	401.018	-0.020	
45+144.571	0.000	400.822	-0.020	Level Crown
45+150	0.005	400.588	-0.020	
45+160	0.015	400.158	-0.020	
45+164.571	0.020	399.961	-0.020	Reverse Crown
45+170	0.025	399.727	-0.025	
45+180	0.035	399.297	-0.035	
45+190	0.045	398.866	-0.045	
45+200	0.055	398.436	-0.055	
45+204.571	0.060	398.239	-0.060	Begin Full Super
45+210	0.060	398.006	-0.600	
45+220	0.060	397.575	-0.600	
45+230	---	---	---	Match Existing

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revisions		date

project projet

**NORTH MOUNTAIN
PAVEMENT
REHABILITATION
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessin

ALIGNMENT GEOMETRY III

designed D. KOZAK conçu

date 2017 03 20

drawn S. WELLS dessiné

date 2017 03 20

approved approuvé

date

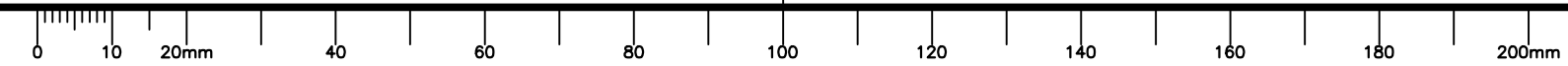
Tender *S.W.* Soumission 2017 03 20
PCA Project Manager Administrateur de projets TPSGC

project number no. du projet

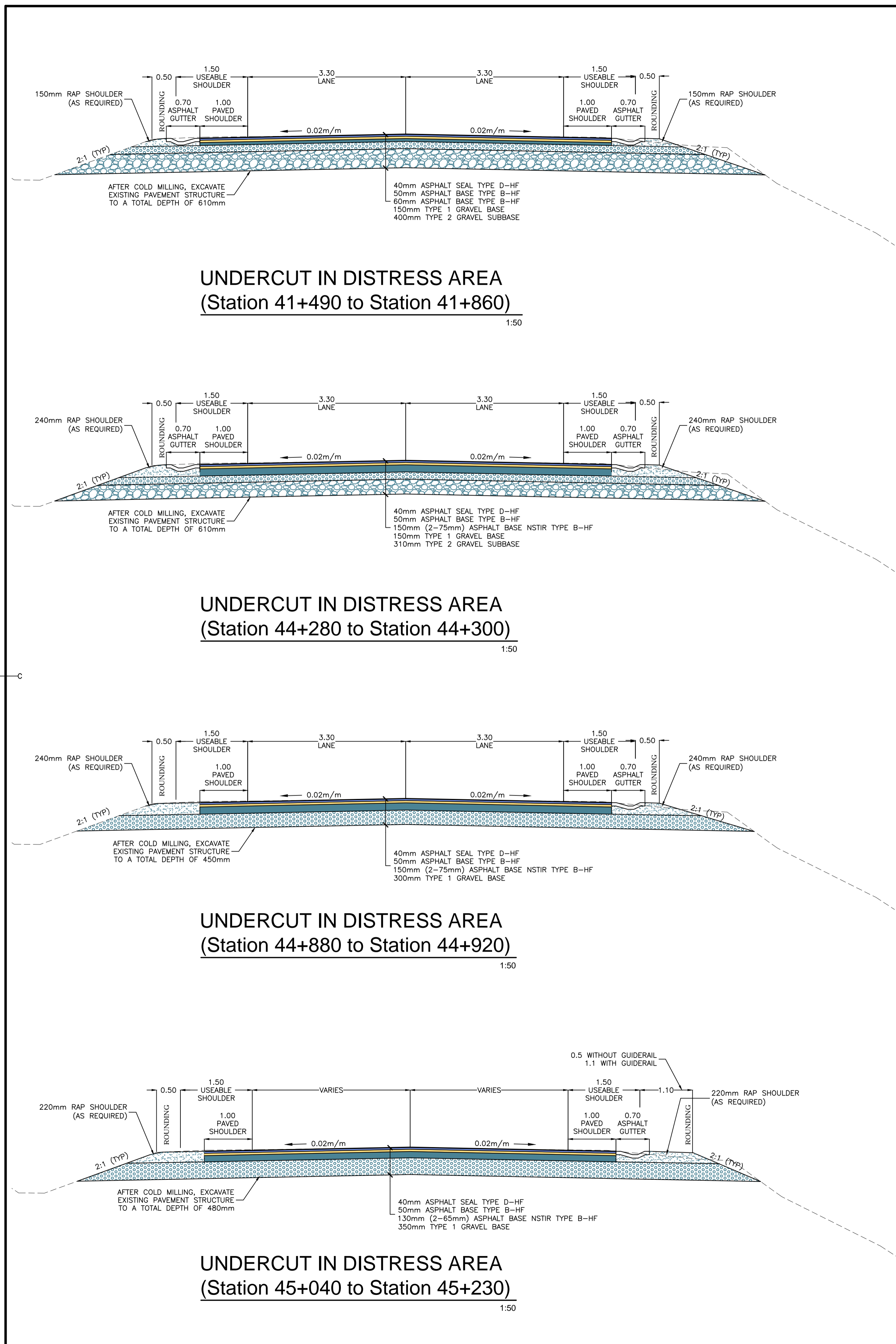
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drawing no. no. du dessin

C25 OF C29

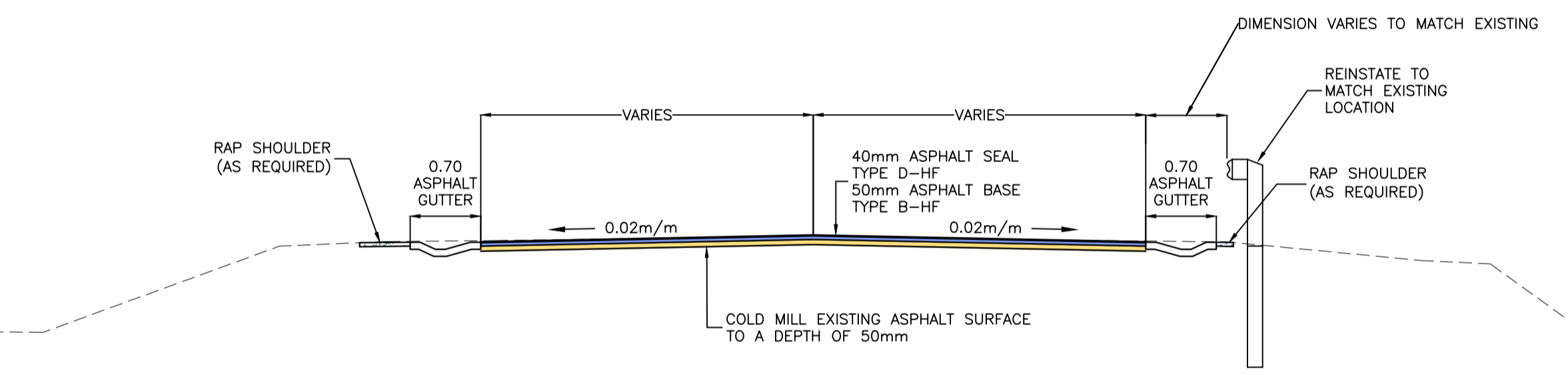


C25 CURVE GEO. 3 PRINTED: 5:01 PM 2017/03/23 BY: SCOT WELLS

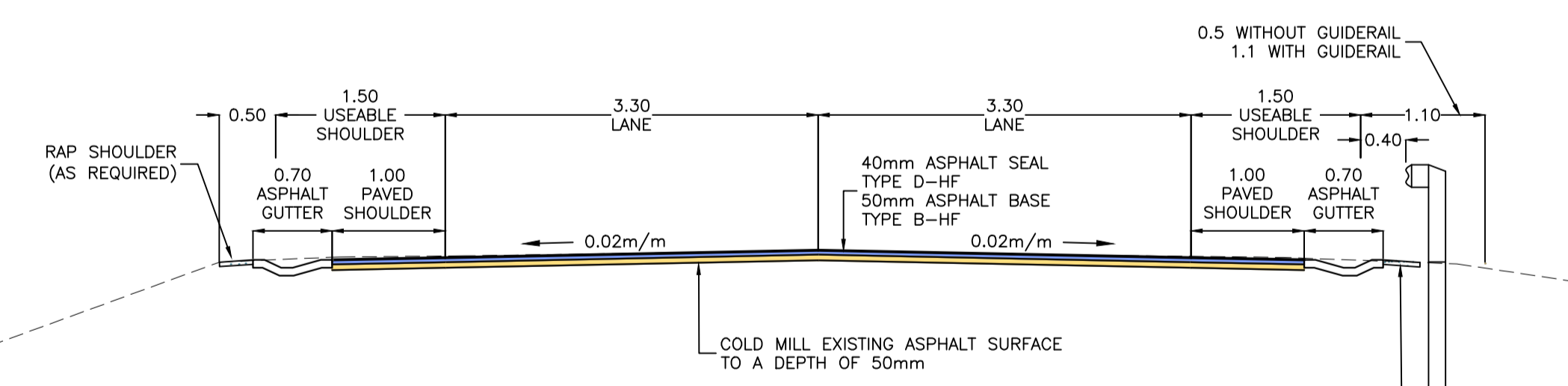


LONGITUDINAL MARKINGS SCHEDULE		
NAME OF LINE	DIMENSIONS (m)	USE
SOLID		EDGE LINES (WHITE OR YELLOW), DIRECTIONAL DIVIDING LINES (YELLOW), LANE LINES PROHIBITING LANE CHANGES (WHITE)
BROKEN		DIRECTIONAL DIVIDING LINES (YELLOW), LANE LINES (WHITE)
SIMULTANEOUS SOLID AND BROKEN		DIRECTIONAL DIVIDING LINES (YELLOW), TWO-WAY LEFT TURN LANES (YELLOW), LANE LINES WHERE LANE CHANGES FROM ONE SIDE ARE PROHIBITED (WHITE)
DOUBLE SOLID		DIRECTIONAL DIVIDING LINES (YELLOW)
DASHED 3.0m		CONTINUITY LINES IN MERGING AND DIVERGING AREAS (WHITE), LANE LINES FOR LEFT TURN AND RIGHT TURN BAYS AND TAPERS (WHITE)
TRANSVERSE STOP		INTERSECTION STOP LINES (WHITE)

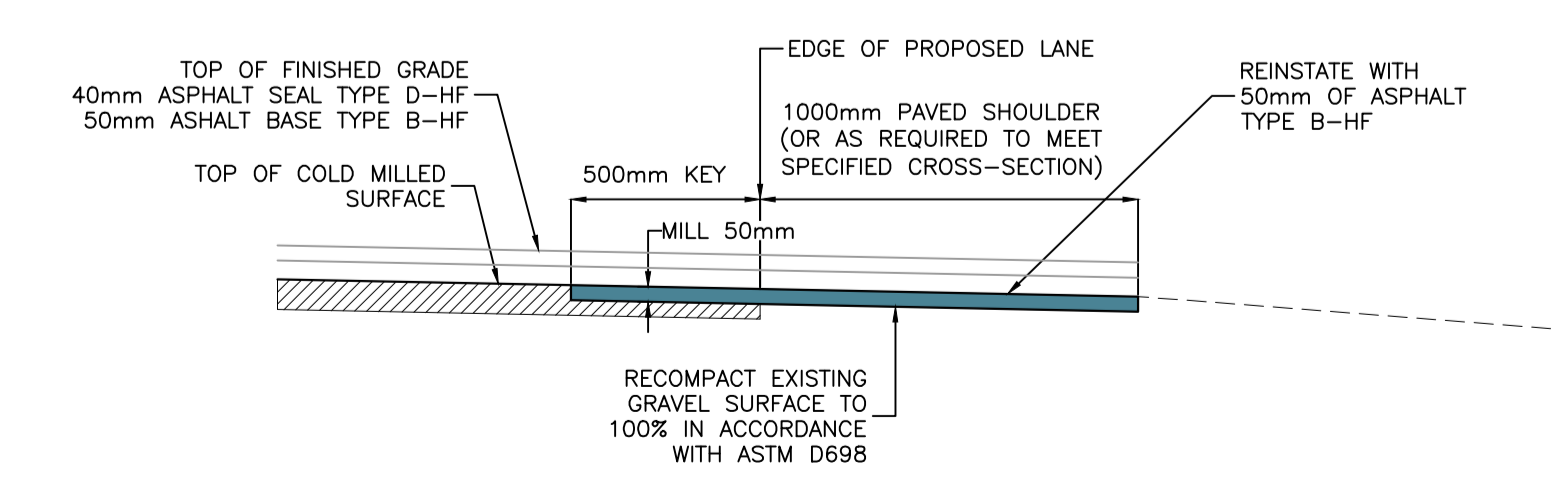
PAVEMENT MARKINGS
NTS



NSTIR "Modified Cabot Trail" Minor Collector Typical Section (Station 38+250 to Station 41+505) & (Station 44+950 to Station 47+224.12)
SCALE 1:50



NSTIR "Modified Cabot Trail" Minor Collector Typical Section (Station 41+505 to Station 44+950)
SCALE 1:50



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NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK

DETAIL SHEET I

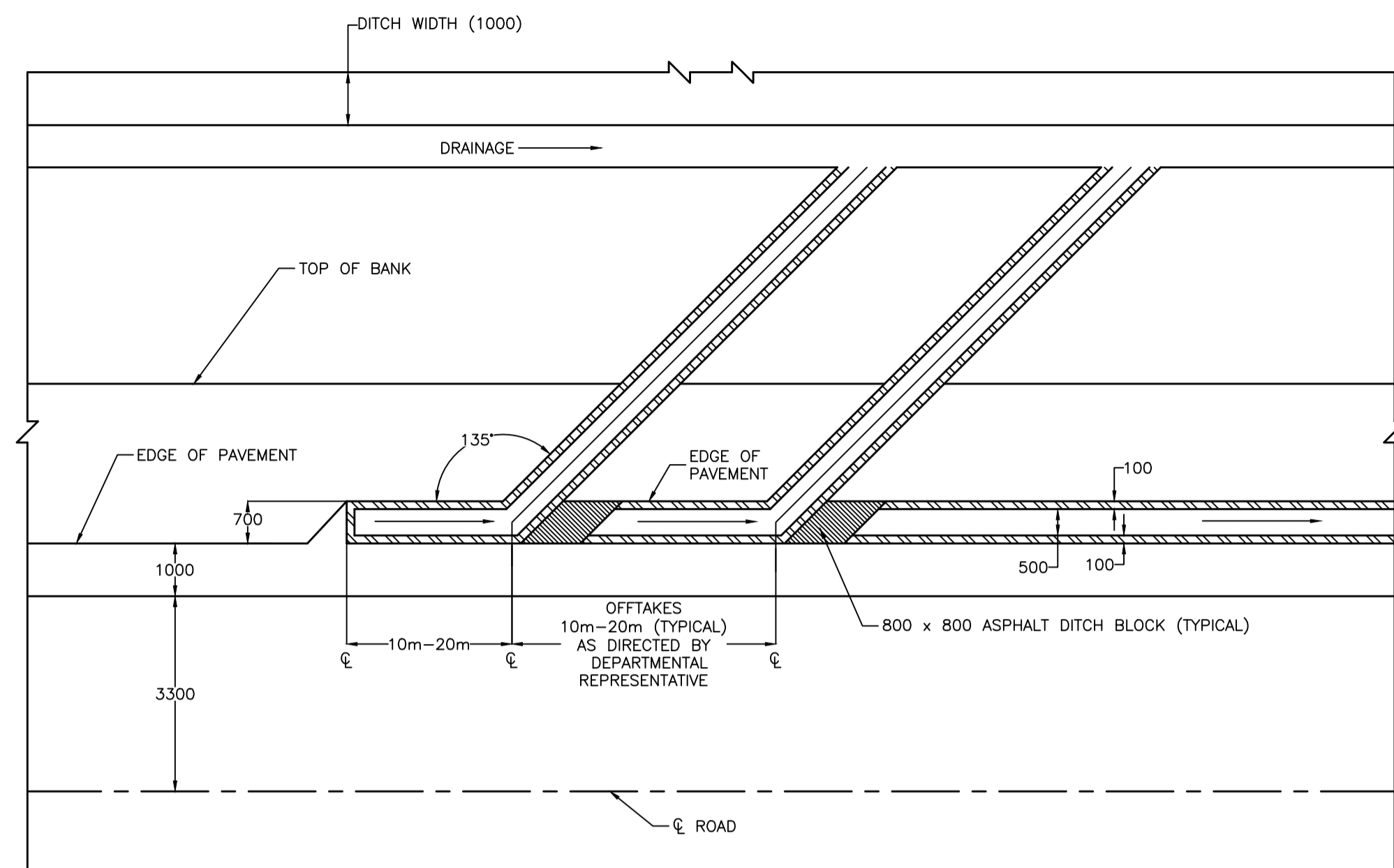
designed	D. KOZAK	conçu
date	2017 03 20	
drawn	M. SEELY	dessiné
date	2017 03 20	
approved		approuvé
date		
Tender	JBL	Soumission
PCA Project Manager	Administrateur de projets TPSGC	2017 03 20
project number		no. du projet

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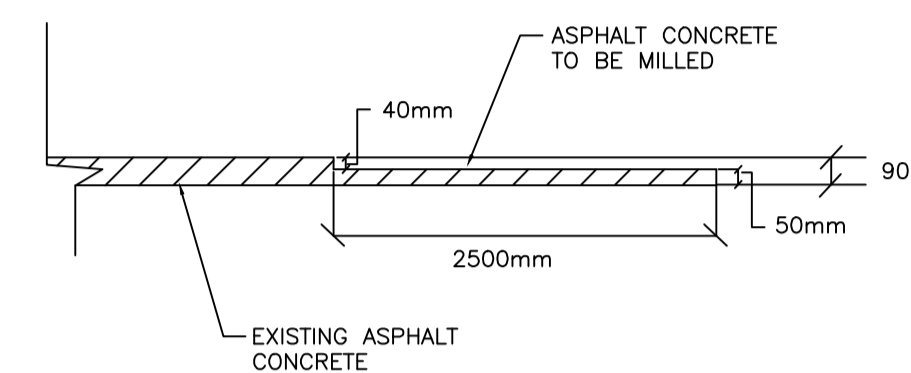


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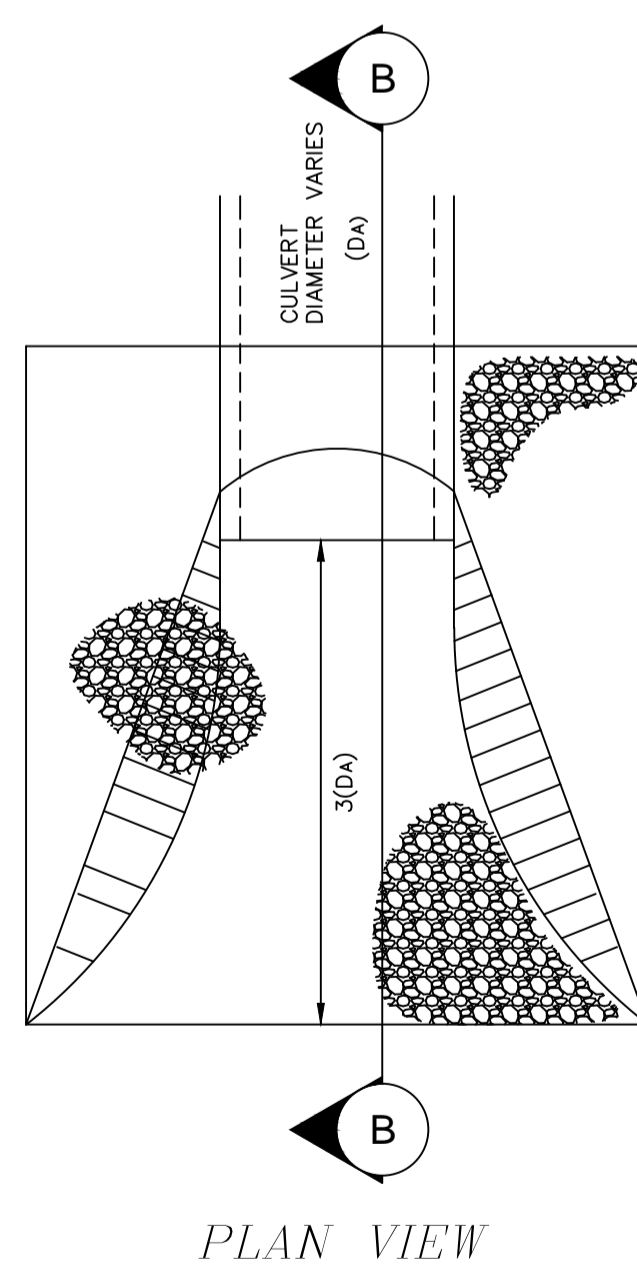
ASPHALT GUTTER DETAIL
NTS

NOTES: 1) USE ASPHALT BUTT JOINT FOR ALL TRANSVERSE JOINTS WHERE NEW ASPHALT PAVEMENT MEETS EXISTING ASPHALT PAVEMENT.



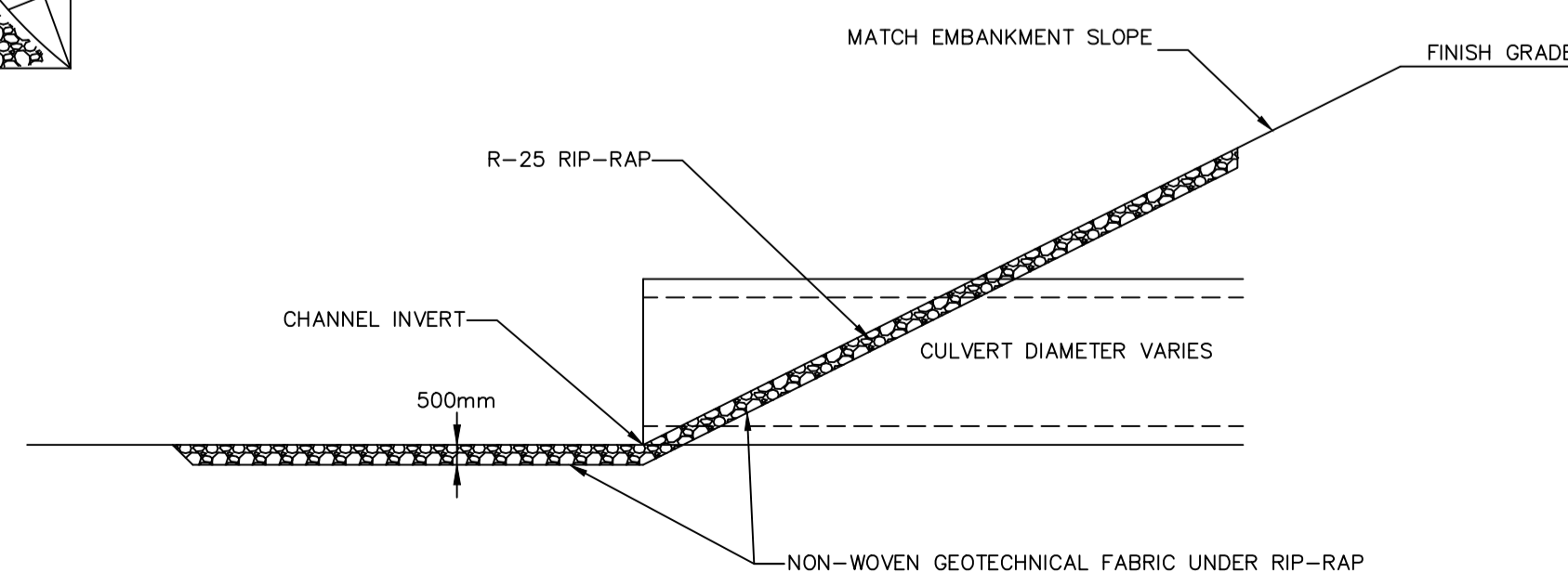
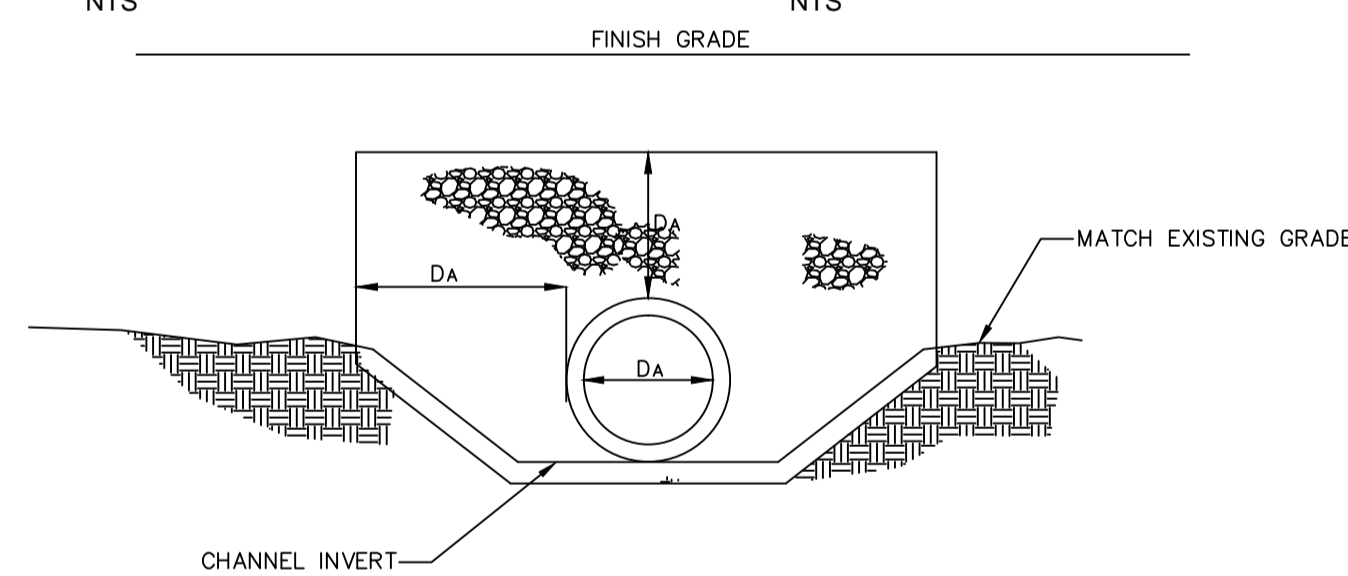
ASPHALT KEY JOINT DETAIL
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CULVERT END TREATMENT DETAIL
NTS

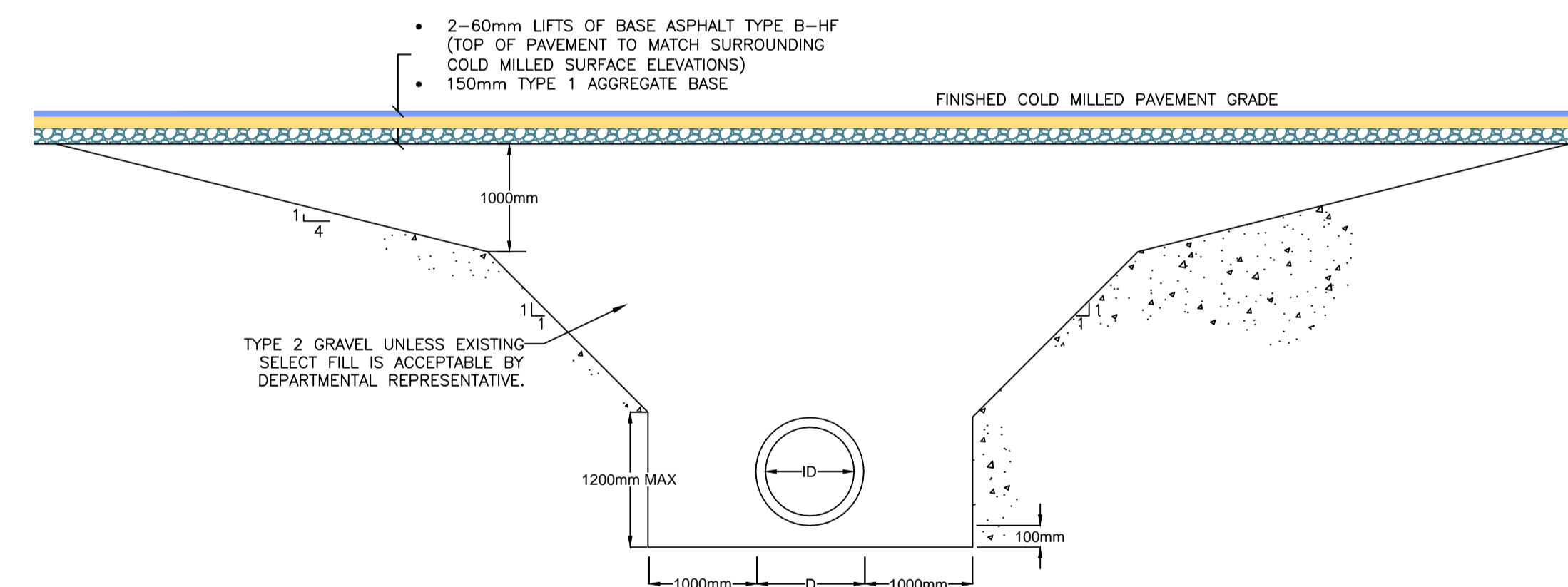


PLAN VIEW

FRONT VIEW
NTS



SECTION B-B
NTS



NOTE: D = NOMINAL PIPE DIAMETER; OUTSIDE DIAMETER OF CONCRETE PIPE OR DIAMETER OF HDPE PIPE

LIMITS OF BACKFILLING AROUND STRUCTURES
(PRIOR TO ASPHALT REINSTATEMENT ON PROJECT)
NTS

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project
NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK
desin

DETAIL SHEET II

designed	D. KOZAK	conçu
date	2017 03 20	
drawn	M. SEELY	dessiné
date	2017 03 20	
approved		approuvé
date		
Tender	<i>JBL</i>	Soumission
PCA Project Manager		Administrateur de projets TPSGC
project number		no. du projet

671

drawing no. no. du dessin

C27 OF C29



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NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK

drawing design

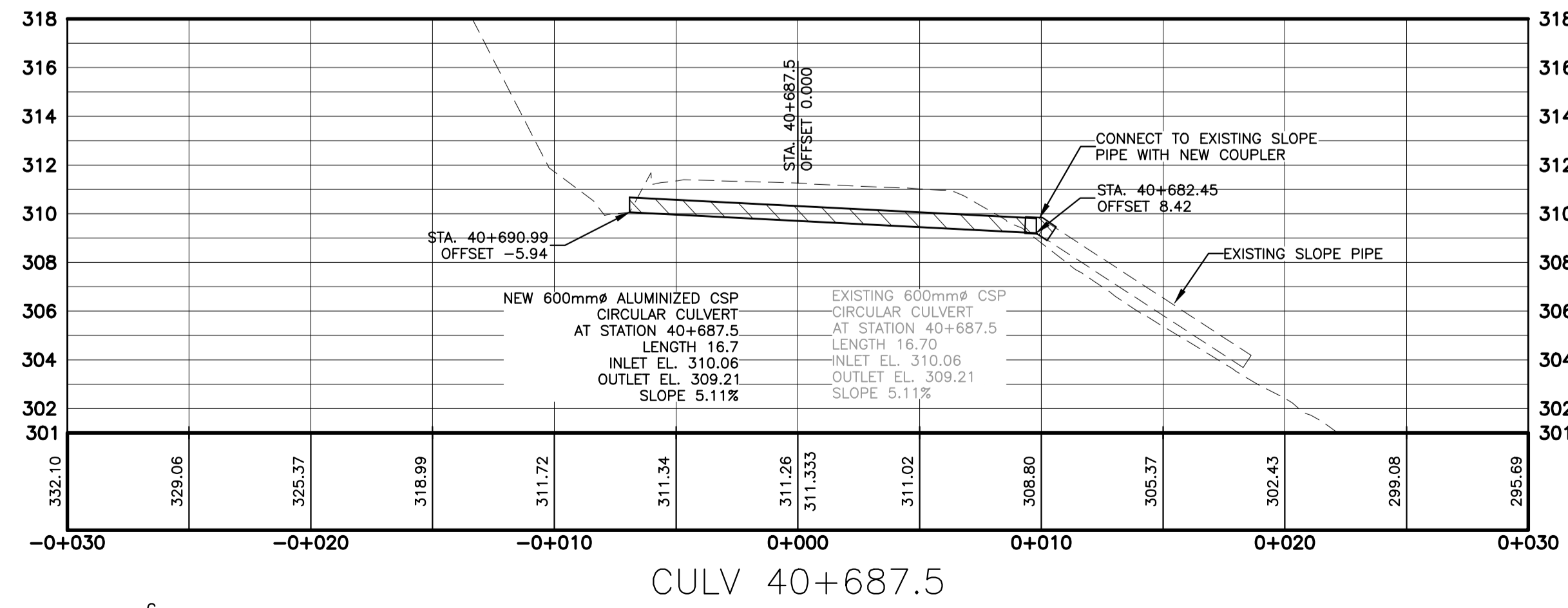
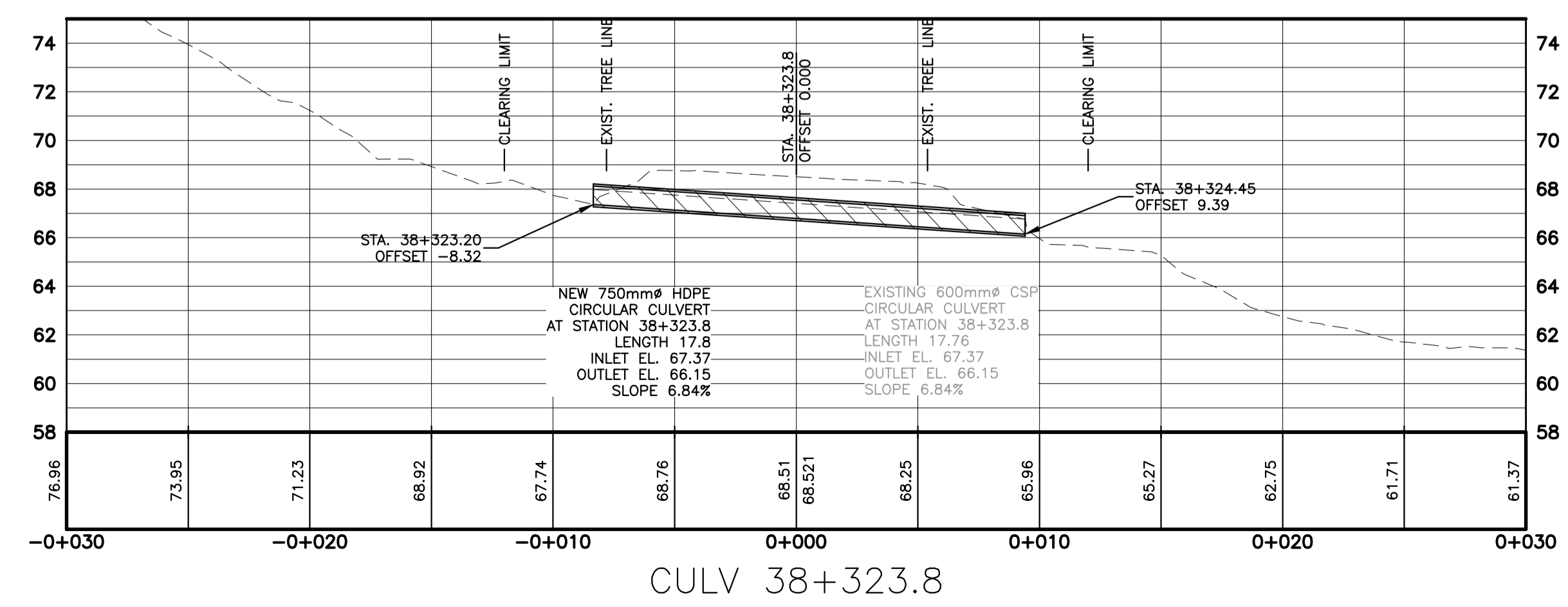
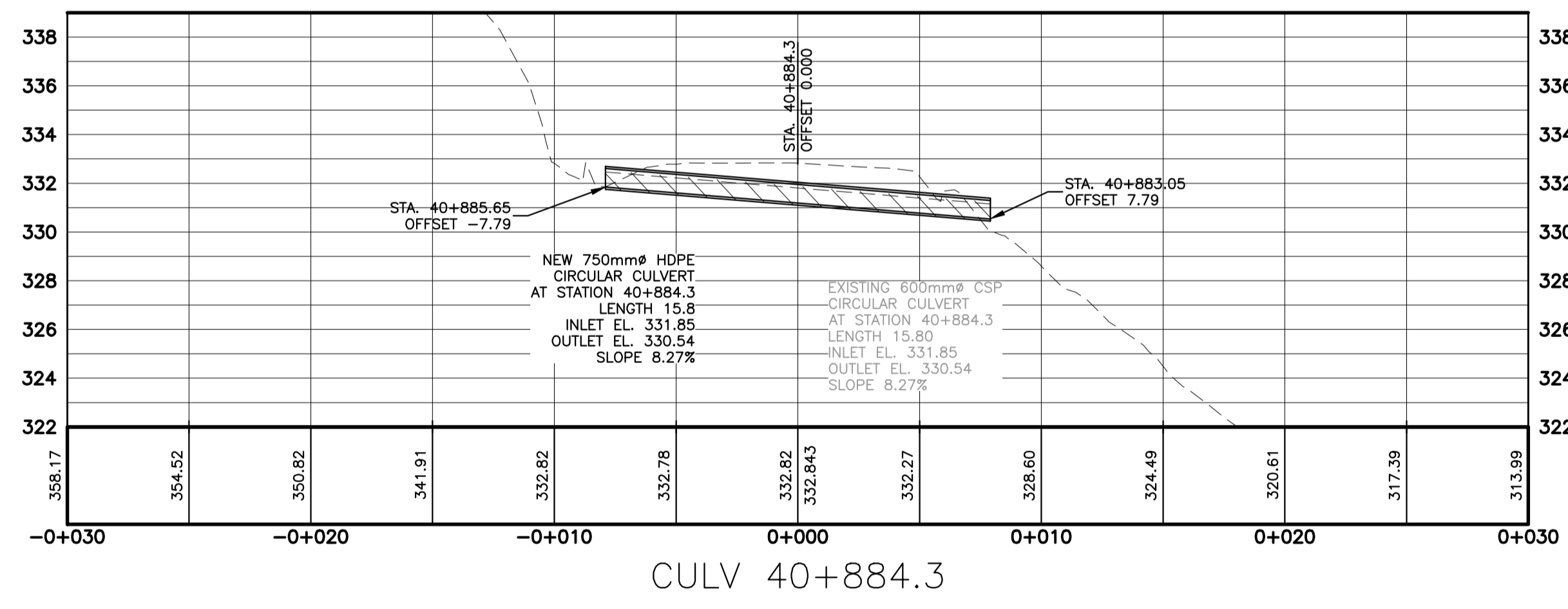
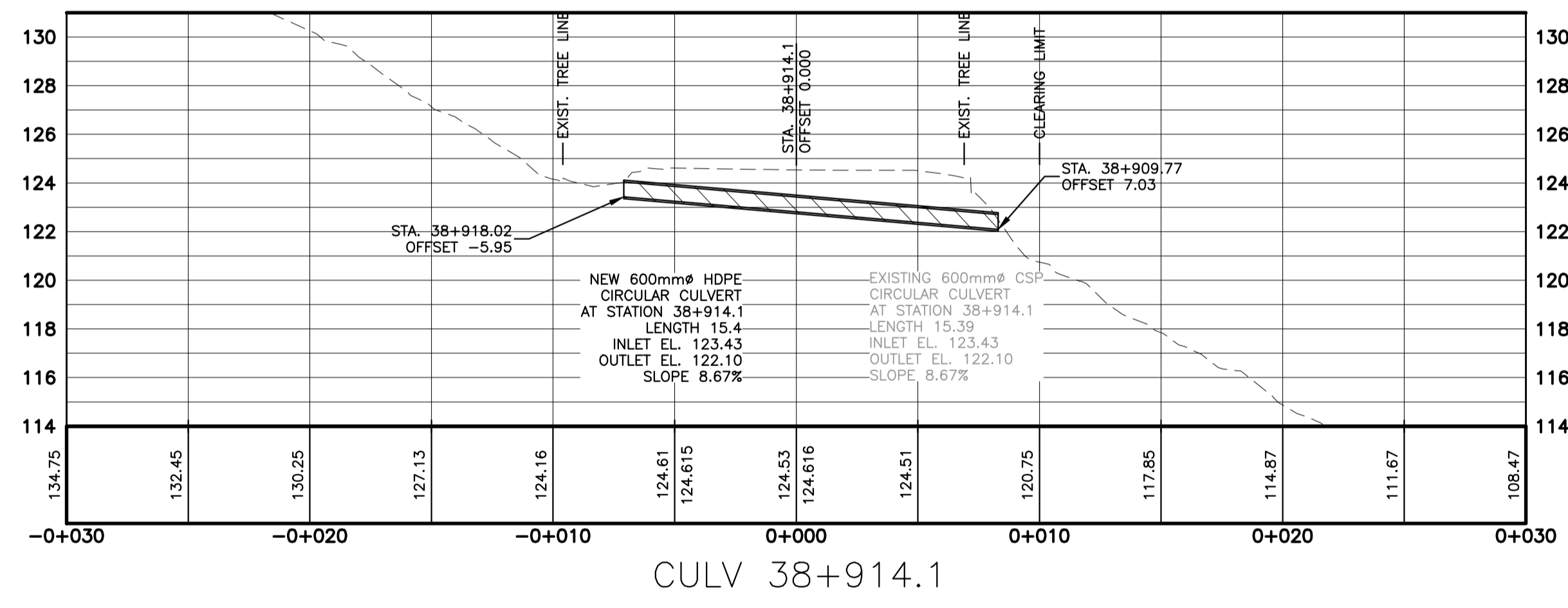
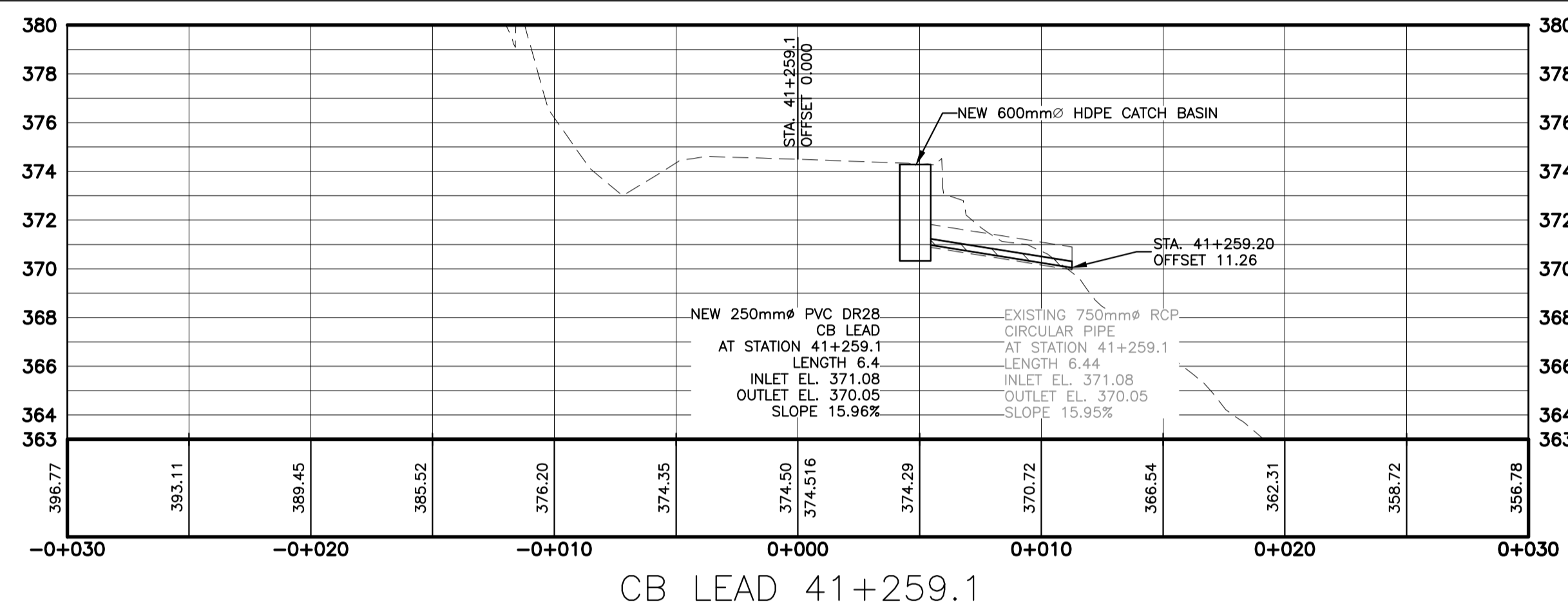
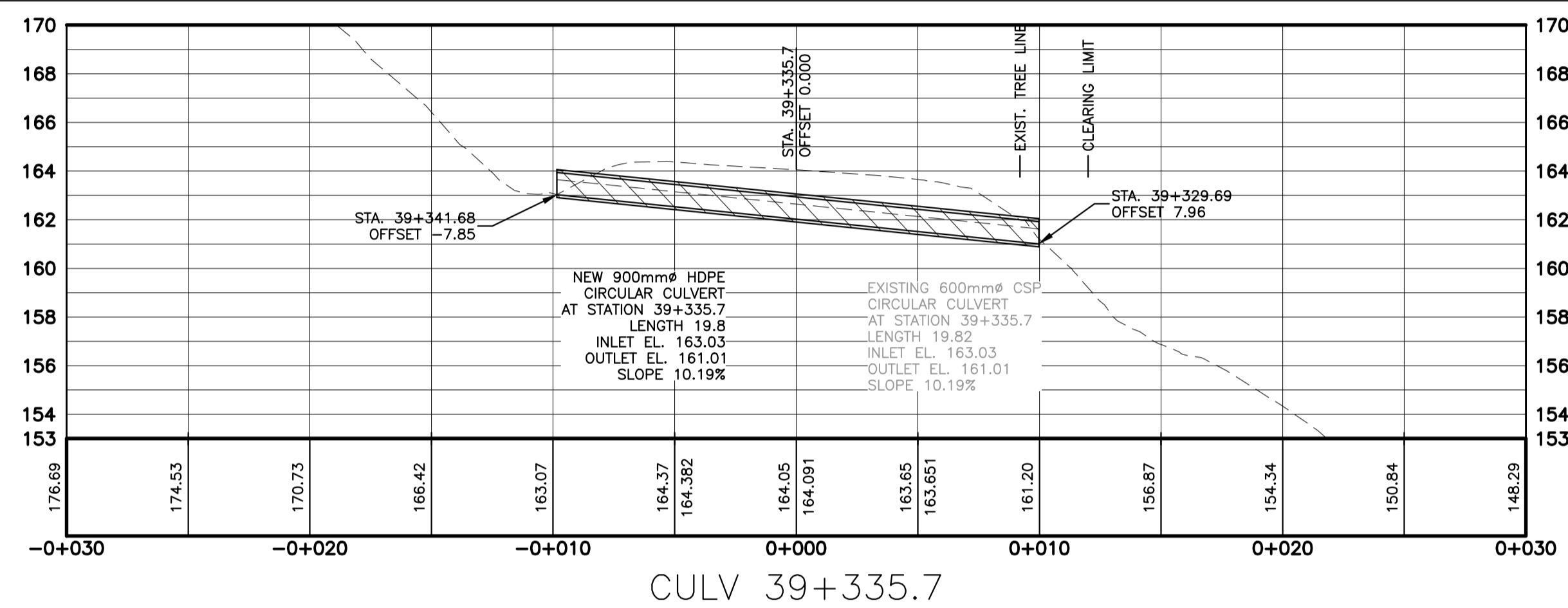
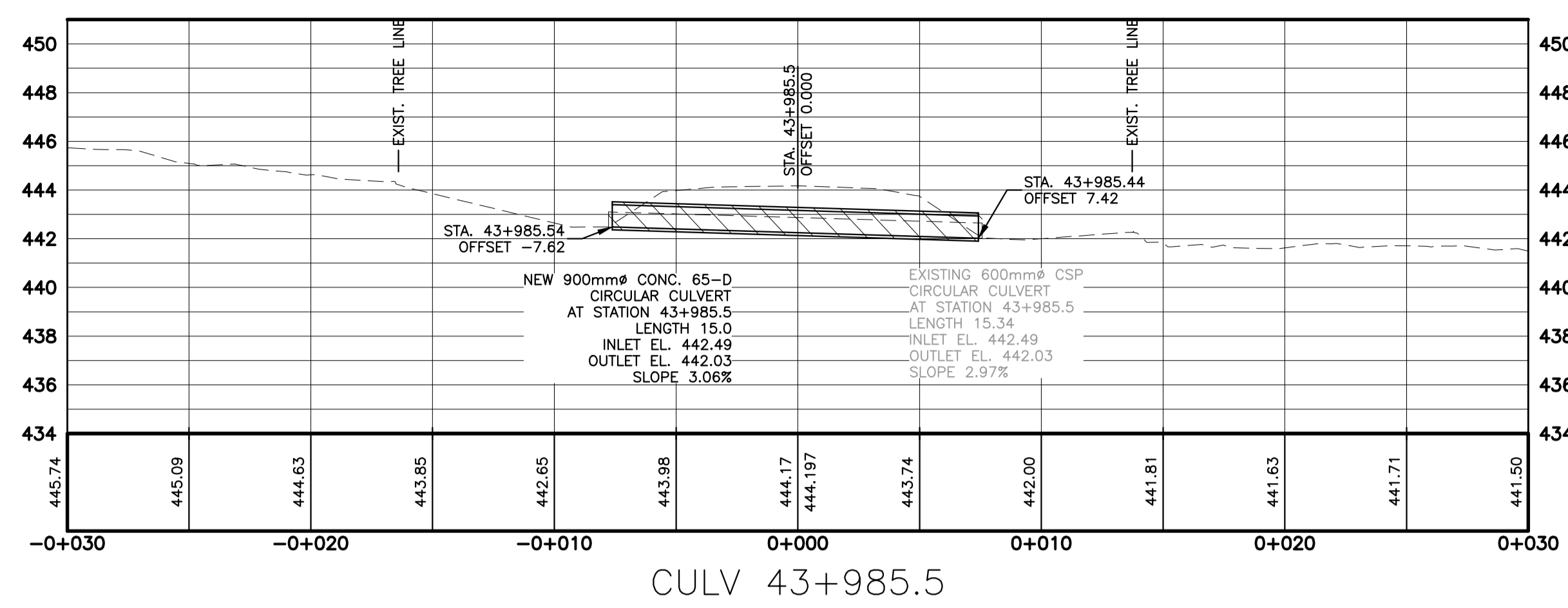
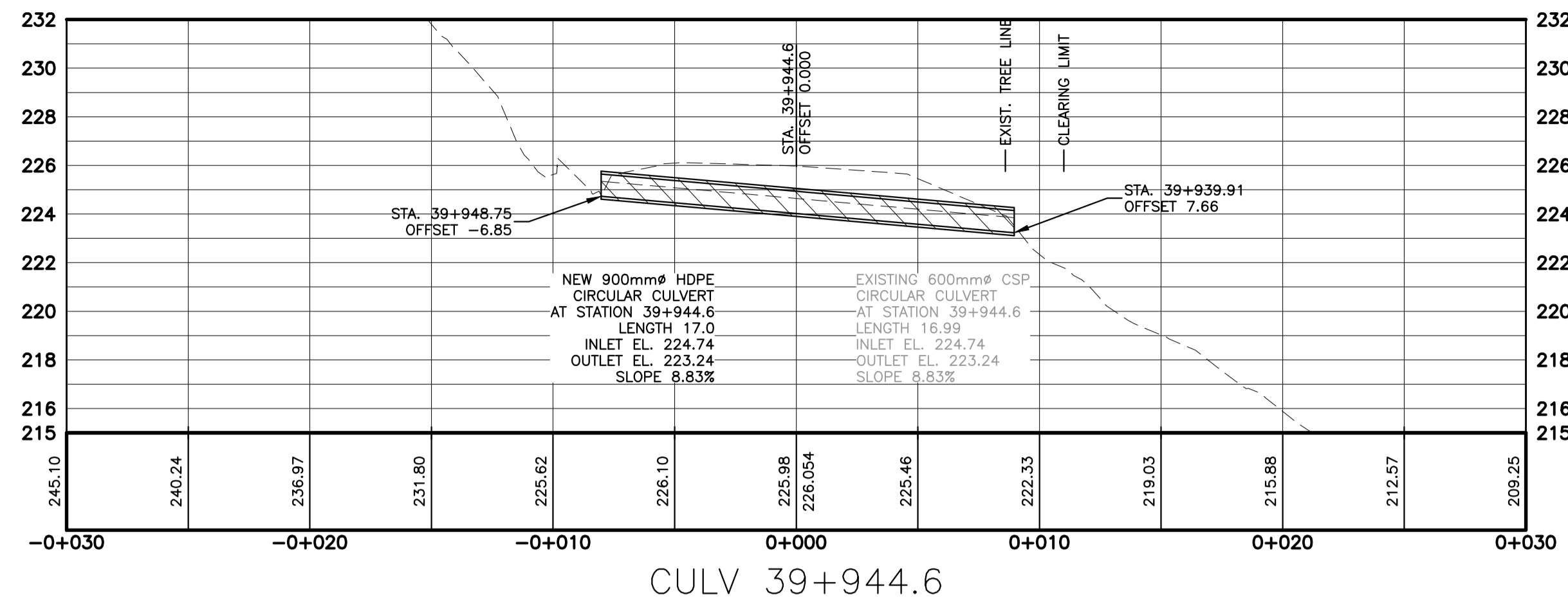
CULVERT CROSS SECTIONS I

designed	D. KOZAK	conçu
date	2017 03 20	
drawn	S. WELLS	dessiné
date	2017 03 20	
approved		approuvé
date		
Tender	<i>SJB</i>	Submission
PCA Project Manager	Administrateur de projets TPSC	2017 03 20
project number		no. du projet

671

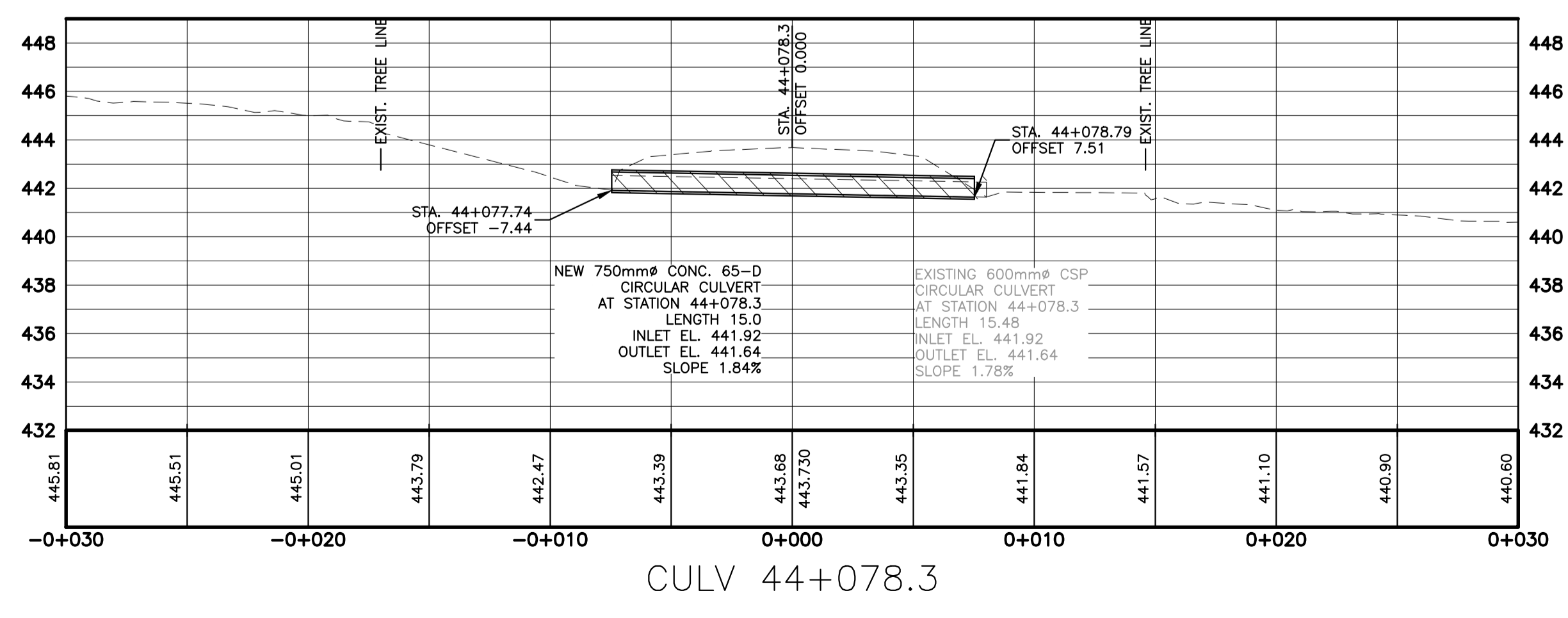
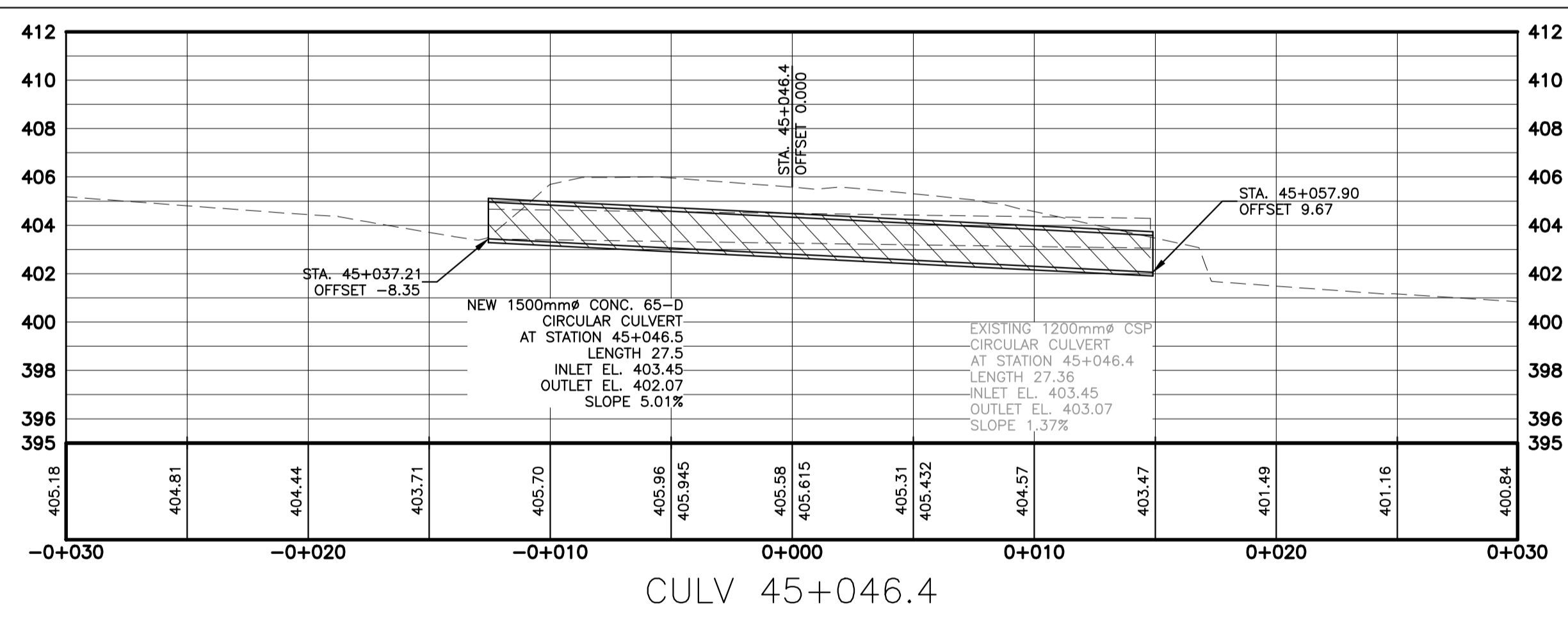
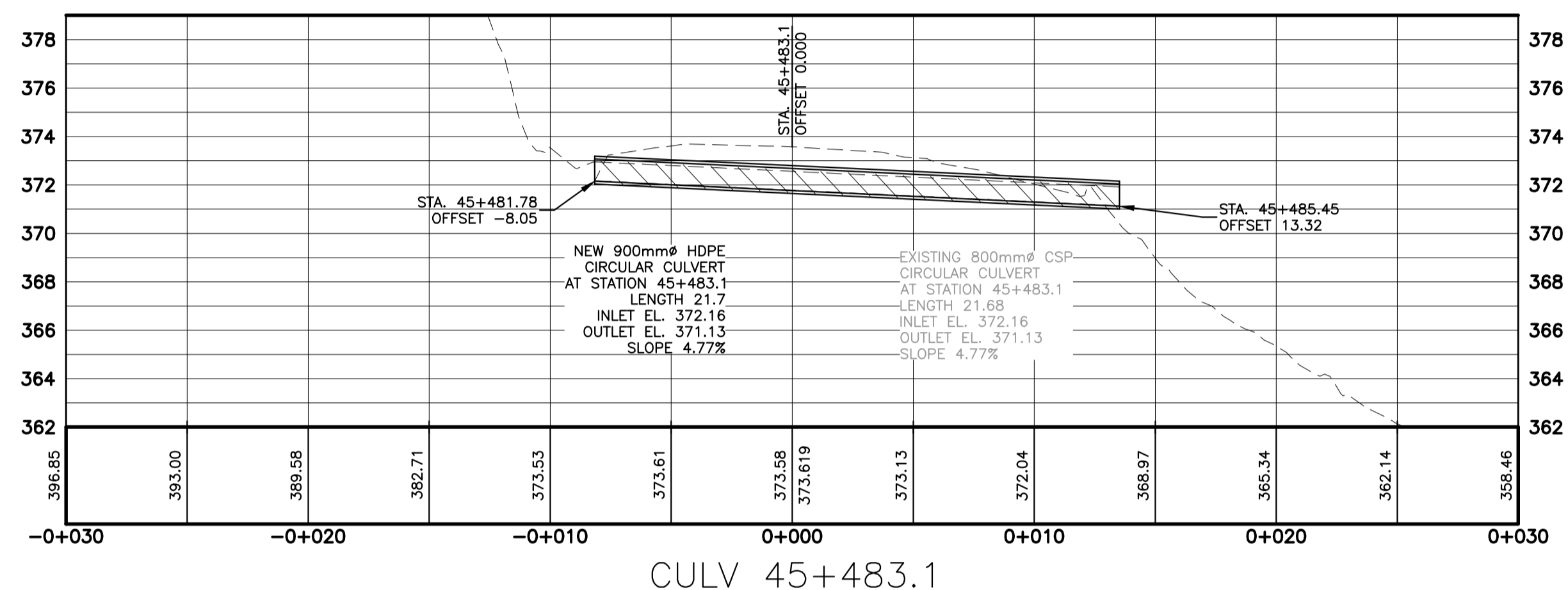
drawing no. no. du dessin

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project project

NORTH MOUNTAIN PAVEMENT REHABILITATION CAPE BRETON HIGHLANDS NATIONAL PARK

CULVERT CROSS SECTIONS II

designed	D. KOZAK	conçu
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PCA Project Manager	Administrateur de projets TPSGC	2017 03 20
project number		no. du projet
	671	
drawing no.		no. du dessin
	C29 OF C29	

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