



Parks
Canada

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Canada

CABOT TRAIL REHABILITATION
PLEASANT BAY TO NORTH MOUNTAIN
KM 33.17 TO 38.74, 5.57 KM
CAPE BRETON HIGHLANDS
NATIONAL PARK

PROJECT NO. 1114



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GENERAL NOTES

GENERAL

- ELEVATIONS ARE EXPRESSED IN METRES.
- EXISTING GROUND ELEVATIONS ARE BASED ON LIDAR SURVEY DATA COLLECTED BY LEADING EDGE GEOMATICS IN JUNE, 2015.
- SURVEY CONTROL IS BASED ON THE CAN-NET (www.can-netgps.ca), NOVA SCOTIA ACTIVE CONTROL NETWORK AT CAN-NET STATIONS NHBR (NEILS HARBOUR) AND CHET (CHETICAMP).
- ELEVATIONS SHOWN ARE GEODETIC, AND ARE REFERENCED TO UTM20 NAD83 CSRS CGVD28 VIA HT2. NSSDA Z ACCURACY OF 9.9 CM'S (95 PERCENT).
- TOPOGRAPHIC SURVEYS BY STANTEC (DECEMBER, 2017 AND APRIL, 2018) WERE COMPLETED TO SUPPLEMENT THE LIDAR DATA.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS INDICATED OTHERWISE.
- STATIONING IS EXPRESSED IN METRES.
- HORIZONTAL AND VERTICAL ALIGNMENT GEOMETRY ARE A BEST FIT BASED ON THE 2015 LIDAR SURVEY.
- VERIFY ALL ELEVATIONS AND DIMENSIONS OF EXISTING STRUCTURES AND FEATURES IN THE FIELD.
- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL BUILDING CODE OF CANADA, CANADIAN CONSTRUCTION SAFETY CODE, NSTIR'S TEMPORARY WORKPLACE TRAFFIC CONTROL MANUAL (TWTCM) AND ALL REGULATIONS AS SET OUT BY LOCAL AUTHORITIES HAVING JURISDICTION.
- COMPLY WITH ALL REQUIREMENTS OF THE TECHNICAL SPECIFICATIONS BOUND SEPARATELY.
- THE POSTED REGULATORY SPEED THROUGH THE CONTRACT LIMITS ARE AS FOLLOWS:
 - 60 Km/h TO STA. 33+288
 - 80 Km/h TO STA. 38+182
 - 50 Km/h TO STA. 38+740

ENVIRONMENTAL

- WORK OPERATIONS SHALL BE CARRIED OUT AT ALL TIMES SO AS TO CAUSE A MINIMUM OF DISTURBANCE AND SILTATION TO WATERCOURSES.
- USE SILT FENCE AND ALL OTHER APPROPRIATE MEANS TO PREVENT SEDIMENT FROM DISTURBED AREAS FROM ENTERING ANY 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.
- REVEGETATE ALL DISTURBED AREAS WITH APPROVED SEED MIX TO THE SATISFACTION OF THE ENVIRONMENTAL PROTECTION OFFICER (E.P.O.), AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.

EXCAVATION

- PROVIDE ADEQUATE PROTECTION TO ALL SURVEY AND LAYOUT MARKERS, INCLUDING BENCH MARKS AND EXISTING FACILITIES, EQUIPMENT, ETC.
- EXCAVATE TO ELEVATIONS INDICATED AND TO WELL DEFINED LINES SUFFICIENT TO ALLOW INSTALLATION, CONSTRUCTION AND INSPECTION OF WORK.
- EXCAVATIONS SHALL BE DRY, FREE OF LOOSE OR ORGANIC MATTER.
- PROTECT BOTTOM OF EXCAVATION FROM SOFTENING. SOFTENED SOIL SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL COMPACTED AS SPECIFIED AND REQUIRED.
- EXCAVATED MATERIALS ARE NOT TO INTERFERE WITH SITE OPERATIONS OR DRAINAGE.

FOUNDATIONS

- ALL FOUNDATIONS AND SUBGRADE SURFACES SHALL BE FOUNDED ON UNDISTURBED NATIVE SOILS, BEDROCK, OR APPROVED FILL MATERIAL.

DRAINAGE

- POSITIVE DRAINAGE TO ALL DRAINAGE STRUCTURES MUST BE COMPLETED TO THE SATISFACTION OF THE DEPARTMENTAL REPRESENTATIVE.

BACKFILL

- DO NOT COMMENCE BACKFILLING UNTIL AREAS OF WORK TO BE BACKFILLED HAVE BEEN INSPECTED AND APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- AREAS TO BE BACKFILLED SHALL BE FREE OF DEBRIS, SNOW, ICE, WATER OR FROZEN GROUND.
- BACKFILL ONLY WITH MATERIAL APPROVED BY THE DEPARTMENTAL REPRESENTATIVE IN CONTINUOUS HORIZONTAL LAYERS NOT EXCEEDING SPECIFIED THICKNESS AND COMPACT AS SPECIFIED AND REQUIRED.
- BACKFILL SIMULTANEOUSLY EACH SIDE OF PIPE OR WALLS. BRACE OR SHORE TO COUNTERACT UNBALANCED PRESSURES. DO NOT REMOVE UNTIL AUTHORIZED BY THE DEPARTMENTAL REPRESENTATIVE.
- COMPACT MATERIALS AS SPECIFIED.

EXISTING DRIVEWAYS/TRAILS

ALL EXISTING DRIVEWAYS/TRAILS ARE TO BE MAINTAINED AND REGRADED TO MATCH ROADWAY GEOMETRY AND ARE TO RECEIVE 100mm OF RAP MATERIAL AT THE DIRECTION OF THE DEPARTMENTAL REPRESENTATIVE.

GUARD RAIL

- ALL GUARD RAIL FOR THIS CONTRACT SHALL BE WEAK POST SYSTEM.
- GUARD RAIL END TREATMENT HS520, PER NSTIR STANDARD DRAWING NO. S-2009-072.

SIGNAGE

- SIGNS IDENTIFIED FOR REMOVAL AND REINSTATEMENT ARE TO BE REPLACED WITH PRESSURE TREATED WOOD POSTS AS SHOWN ON DETAILS PROVIDED IN THIS PACKAGE.
- ALL SIGNAGE AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH NSTIR AND THE TRANSPORTATION ASSOCIATION OF CANADA (TAC) MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OF CANADA (MUTCD).
- CONTRACTOR IS RESPONSIBLE TO SURVEY EXISTING PAVEMENT MARKINGS AND SUBMIT TO DEPARTMENTAL REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- PAVEMENT MARKINGS ARE APPROXIMATE AND SHALL BE CONFIRMED AND APPROVED ON SITE BY THE DEPARTMENTAL REPRESENTATIVE. PRE-MARKING IS REQUIRED.
- CONTRACTOR IS TO CONFIRM THAT THE EXISTING 'ROAD CLOSED AHEAD' SIGN AT STA. 33+261 IS FULLY OPERATIONAL PRIOR TO DISCONNECTION. CONTRACTOR IS TO CONFIRM THAT THE SIGN IS FULLY OPERATIONAL FOLLOWING REINSTATEMENT.

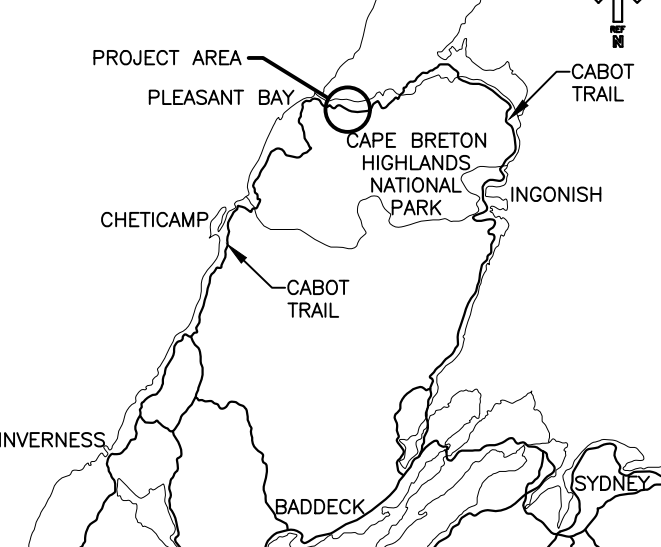
UTILITIES

- ALL EXISTING UTILITIES ARE TO BE LOCATED, PROTECTED AND MAINTAINED IN WORKING ORDER. ANY DAMAGES OCCURRING AS A RESULT OF CONSTRUCTION ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR TO REMEDY.
- EXISTING IDENTIFIED NS POWER AND BELL ALIANT UTILITY INFRASTRUCTURE IS TO BE REMOVED PRIOR TO EXCAVATION WORK.
- CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED PROTECTION MEASURES OF UTILITY INFRASTRUCTURE DURING THE WORK, INCLUDING SAFETY COVERINGS, HOLD POLES, SUSPEND LINES, ETC.
- ANY TEMPORARY RELOCATION OF NS POWER AND BELL ALIANT A/G OR U/G UTILITIES IS TO BE LOCATED OUTSIDE OF WORK LIMITS (CLEARING LIMITS).
- ANY U/G UTILITIES RELOCATED DURING THE WORK IS TO BE REINSTATED PRIOR TO FINE GRADING. ALL WORKMANSHIP WITH THE INSTALLATION OF ANY NEW UTILITIES SHALL BE TO THE THE SATISFACTION AND APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE.
- ANY TEMPORARY UTILITY LINES ARE TO BE REMOVED IMMEDIATELY FOLLOWING REINSTATEMENT OF NEW LINES.
- CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL WORK WITH NOVA SCOTIA POWER AND BELL ALIANT FROM CONTRACT AWARD TO COMPLETION.

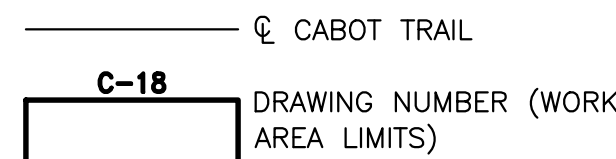


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KEY PLAN



LEGEND:



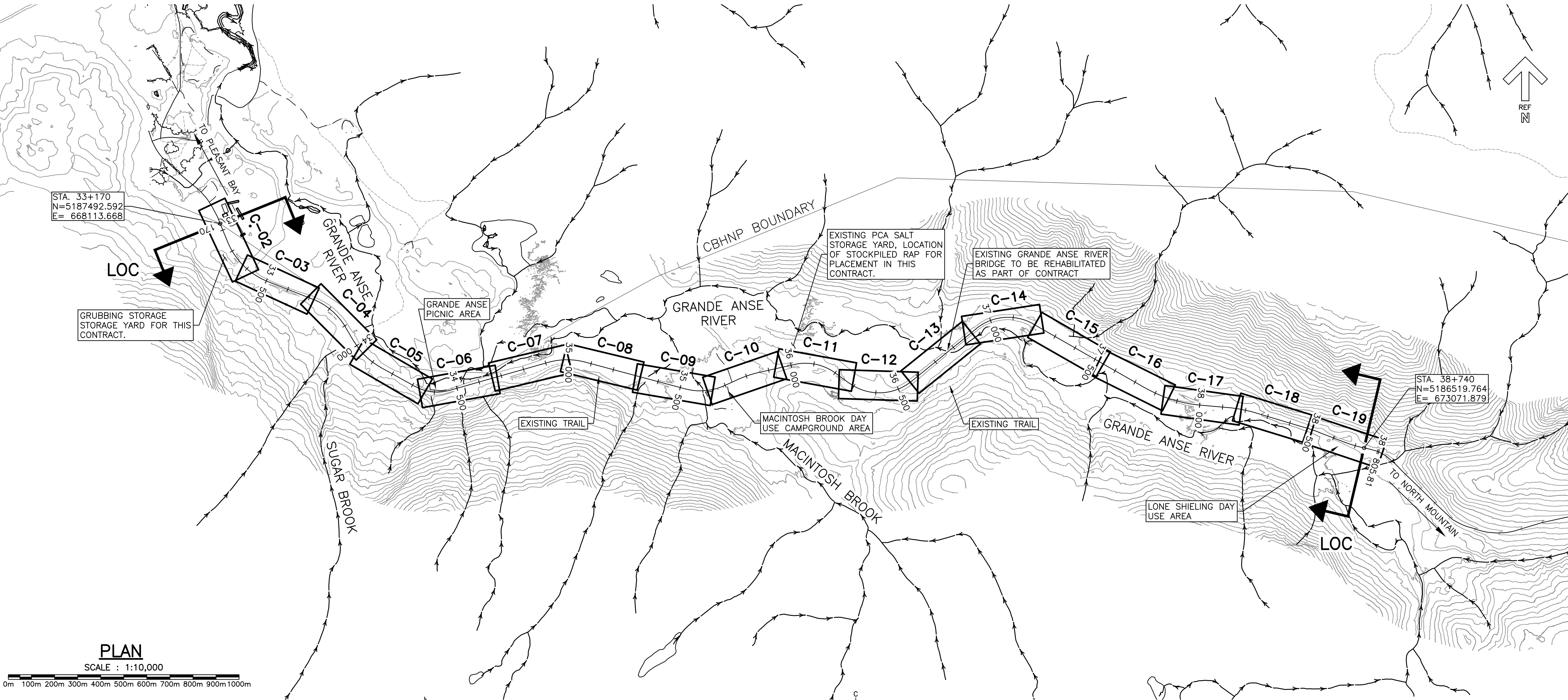
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revisions		date

project
**CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK**

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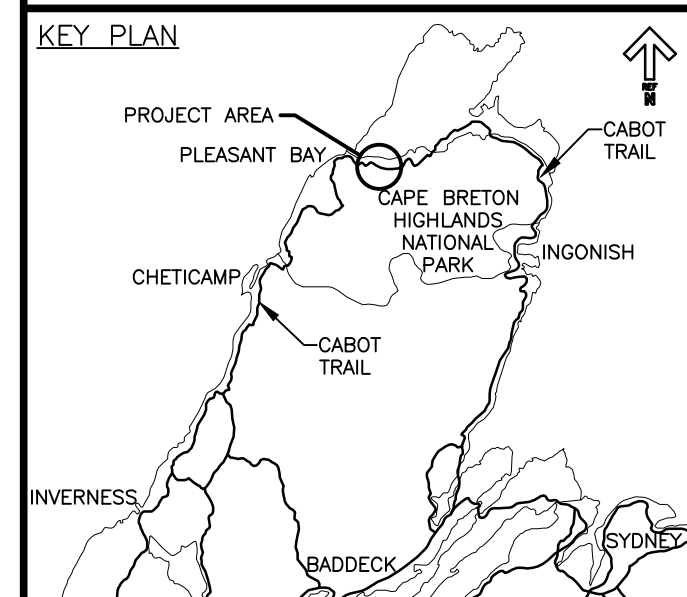
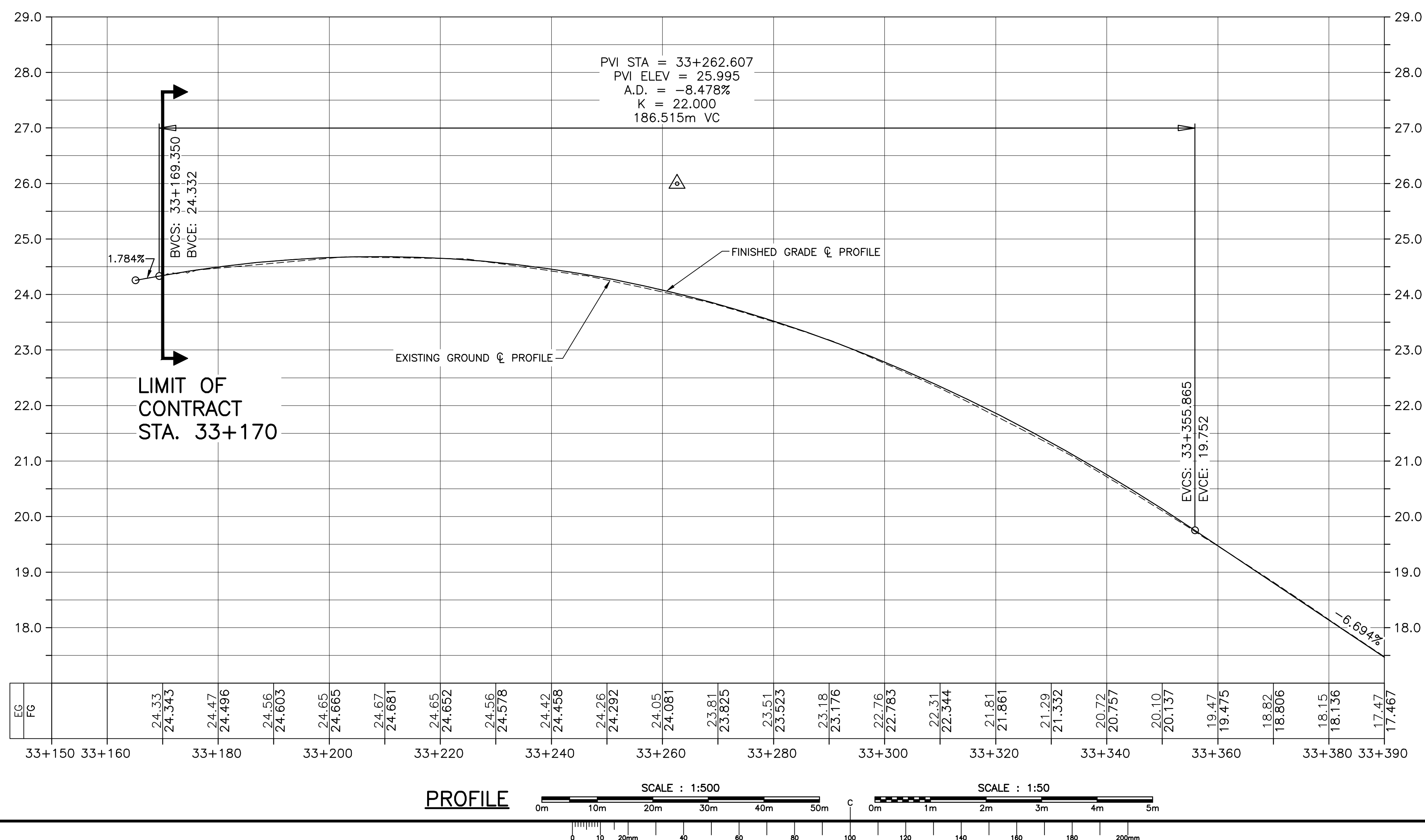
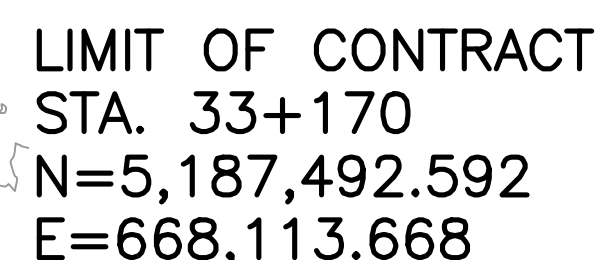
LOCATION PLAN

designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	
Tender		Soumission
PCA Project Manager		FEB. 15, 2019 Administrateur de projets PCA
project number		no. du projet
	1114	
drawing no.		no. du dessin
	C-01	






















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







T-1 - GEOMETRY LABELS, SEE DRAWINGS
C-1 C-20 TO C-22 FOR GEOMETRY TABLES



LEGEND EXISTING

	CONTOUR & ELEVATION
	℄ ROADWAY
	EDGE OF PAVE
	GUARD RAIL
	ASPHALT GUTTER
	DAYLIGHT
	EDGE OF GRAVEL
	EDGE OF TREES
	WATERCOURSE BOUNDARY
	℄ WATERCOURSE
	CULVERT
	SIGN
	BUILDING
	CONTROL MONUMENT
	BOREHOLE
	BELL ALIANT JUNCTION BOX
	U/G POWER/UTILITIES LINES
	POWER POLE / GUY WIRE
	A/G POWER/UTILITIES LINES

LEGEND NEW

	EDGE OF PAVE ℄ ROADWAY EDGE OF PAVE
	SHOULDER GUARD RAIL
	DITCH LINE
	DAYLIGHT (TOP/TOE)
	EDGE OF GRAVEL
	CLEARING LIMIT
	CULVERT
	RIP-RAP



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revisions		date

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CABOT TRAIL REHABILITATION
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CAPE BRETON HIGHLANDS
NATIONAL PARK

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PLAN AND PROFILE
STA. 33+170 TO
STA. 33+390

designed DSC	con
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date MAY. 31, 2018

drawn	JLD/CCP	dessi
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date	MAY. 31, 2018
approved	BMD

date FEB. 15, 2019

Tender	Soumission
428	FEB 15 201

PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

1114

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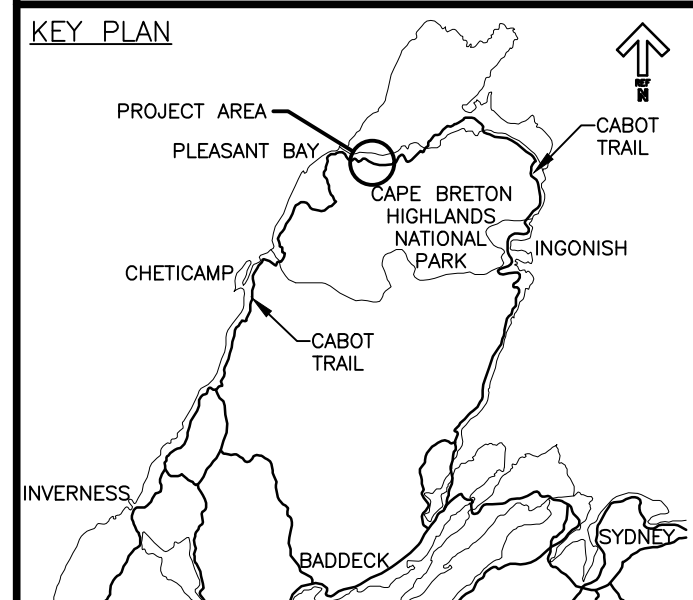
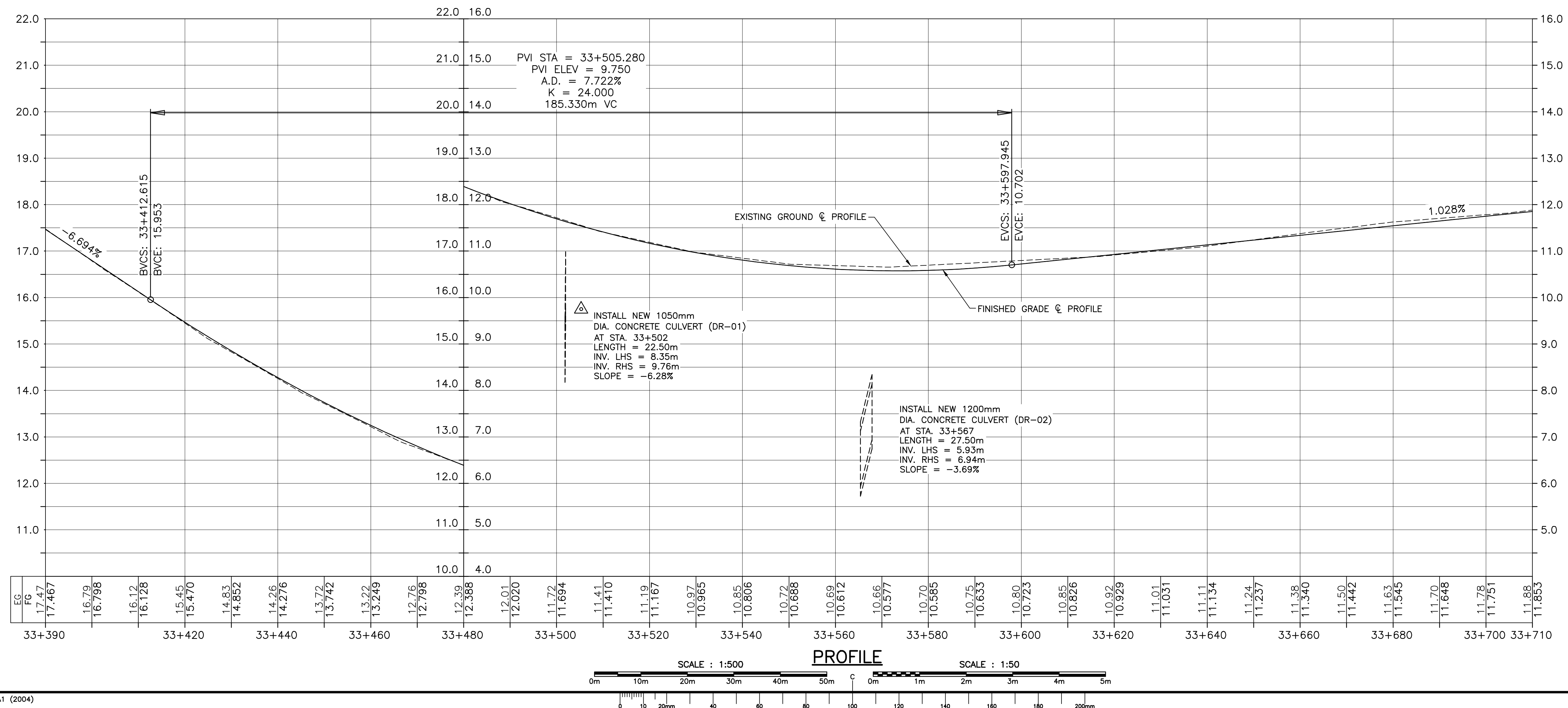
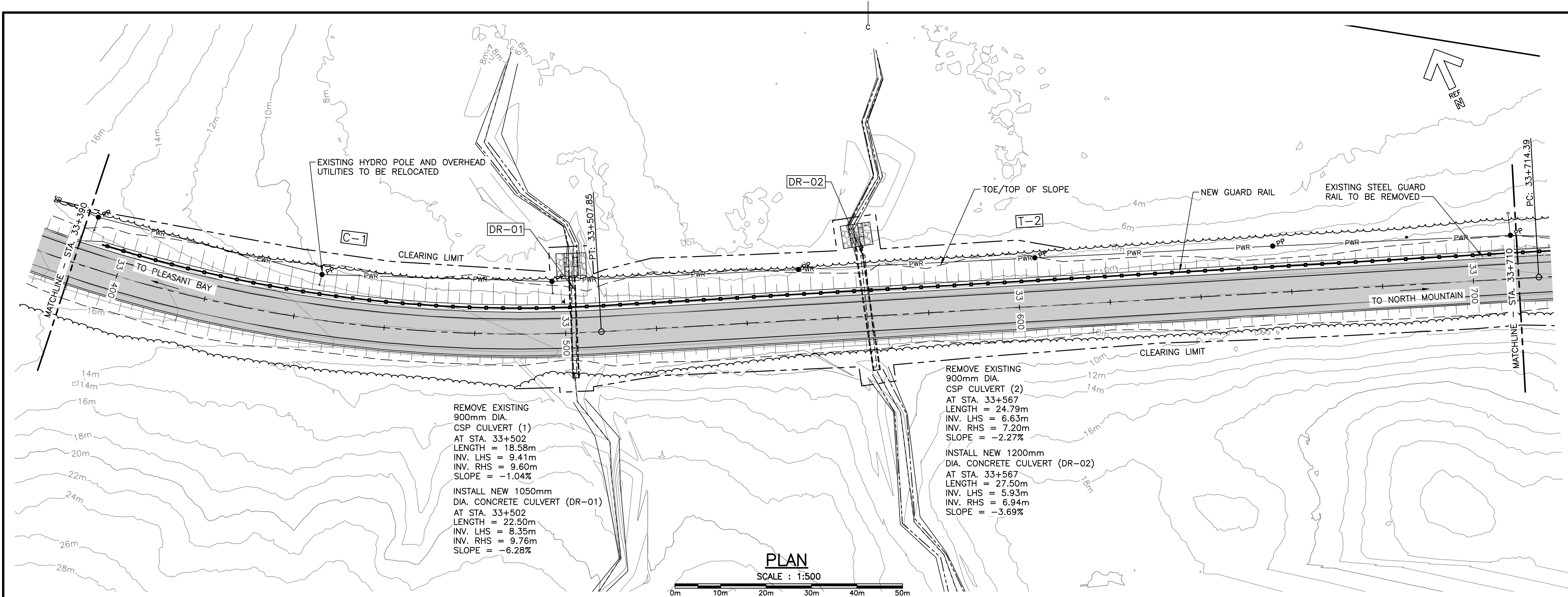
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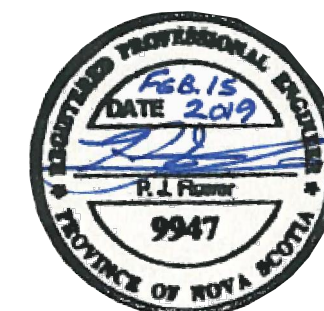
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LEGEND EXISTING	
	CONTOUR & ELEVATION
	ROADWAY
	EDGE OF PAVE
	GUARD RAIL
	ASPHALT GUTTER
	DAYLIGHT
	EDGE OF GRAVEL
	EDGE OF TREES
	WATERCOURSE BOUNDARY
	CULVERT
	SIGN
	BUILDING
	CONTROL MONUMENT
	BOREHOLE
	BELL ALIANT JUNCTION BOX
	U/G POWER/UTILITIES LINES
	POWER POLE / GUY WIRE
	A/G POWER/UTILITIES LINES
LEGEND NEW	
	EDGE OF PAVE
	ROADWAY
	EDGE OF PAVE
	SHOULDER
	GUARD RAIL
	DITCH LINE
	DAYLIGHT (TOP/TOE)
	EDGE OF GRAVEL
	CLEARING LIMIT
	CULVERT
	RIP-RAP



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CABOT TRAIL REHABILITATION
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NATIONAL PARK

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PLAN AND PROFILE
STA. 33+390 TO
STA. 33+710

designed	DSC	conçu
date	MAY. 31, 2018	
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date	MAY. 31, 2018	
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Tender	Soumission
PCA Project Manager	Administrateur de projets PCA

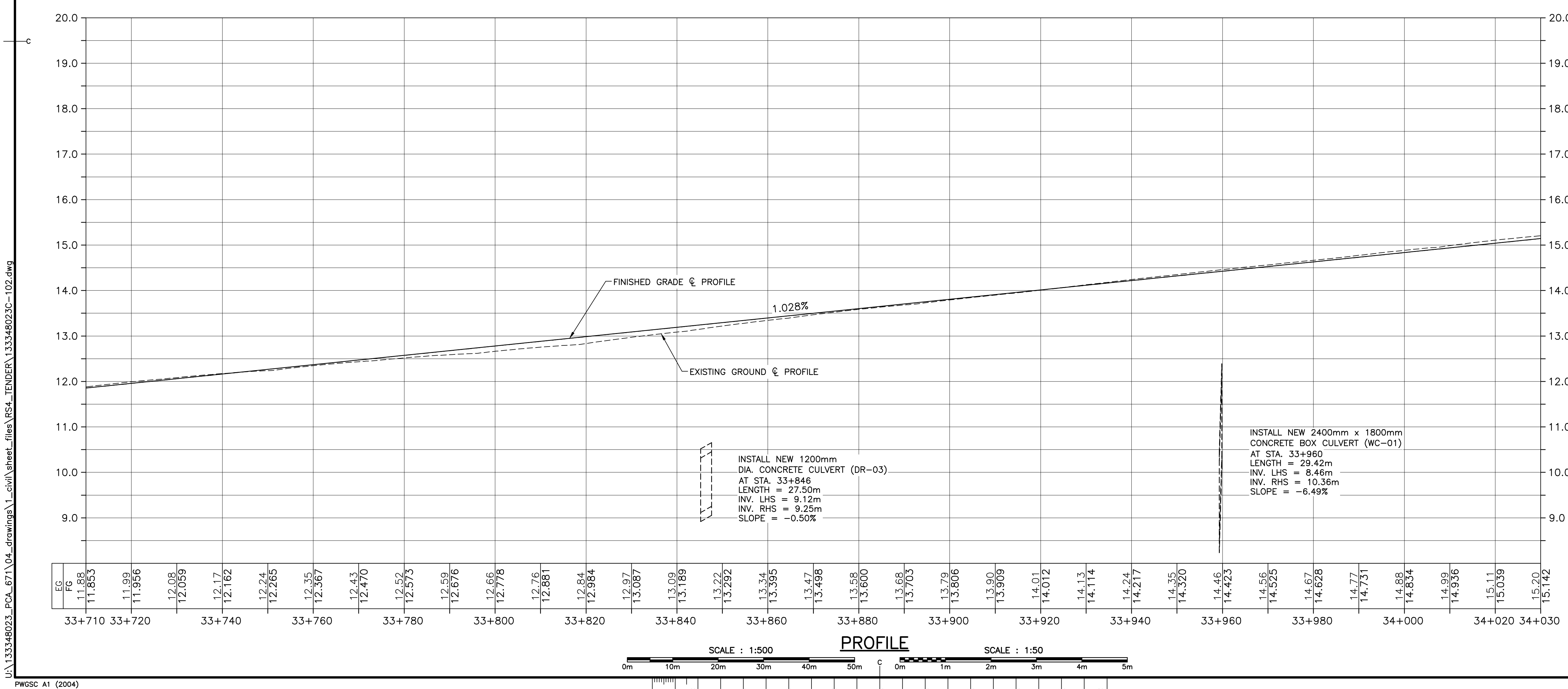
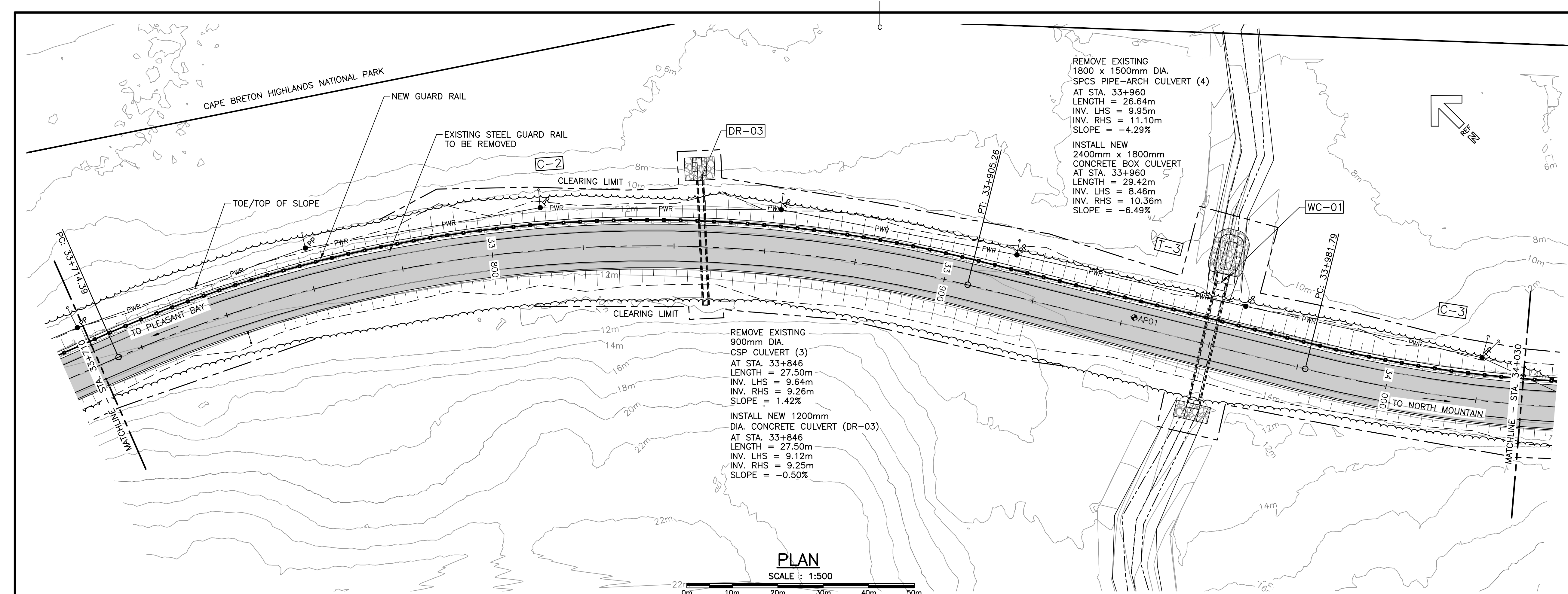
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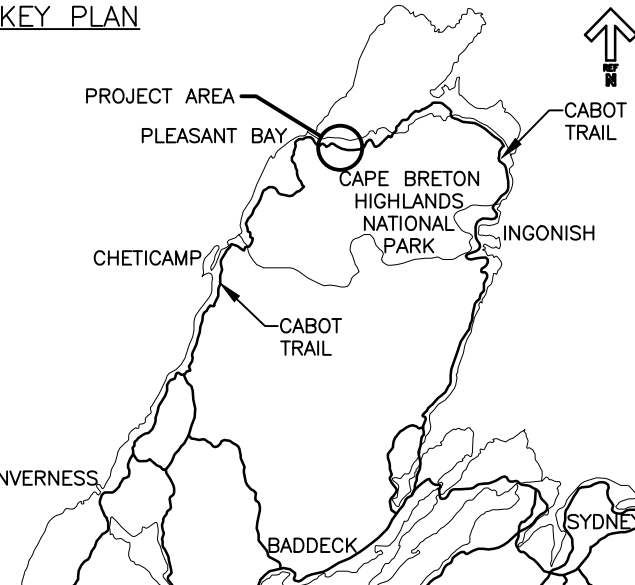
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KEY PLAN

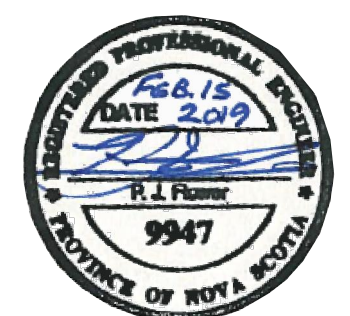


LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- WATERCOURSE
- CULVERT
- SIGN
- BUILDING
- CONTROL MONUMENT
- BOREHOLE
- BELL ALIANT JUNCTION BOX
- U/G POWER/UTILITIES LINES
- POWER POLE / GUY WIRE
- A/G POWER/UTILITIES LINES

LEGEND NEW

- EDGE OF PAVE
- ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- DITCH LINE
- DAYLIGHT (TOP/TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP



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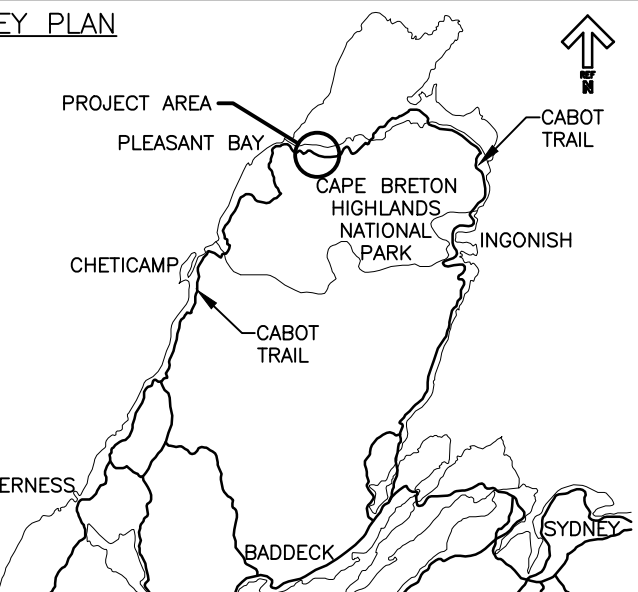
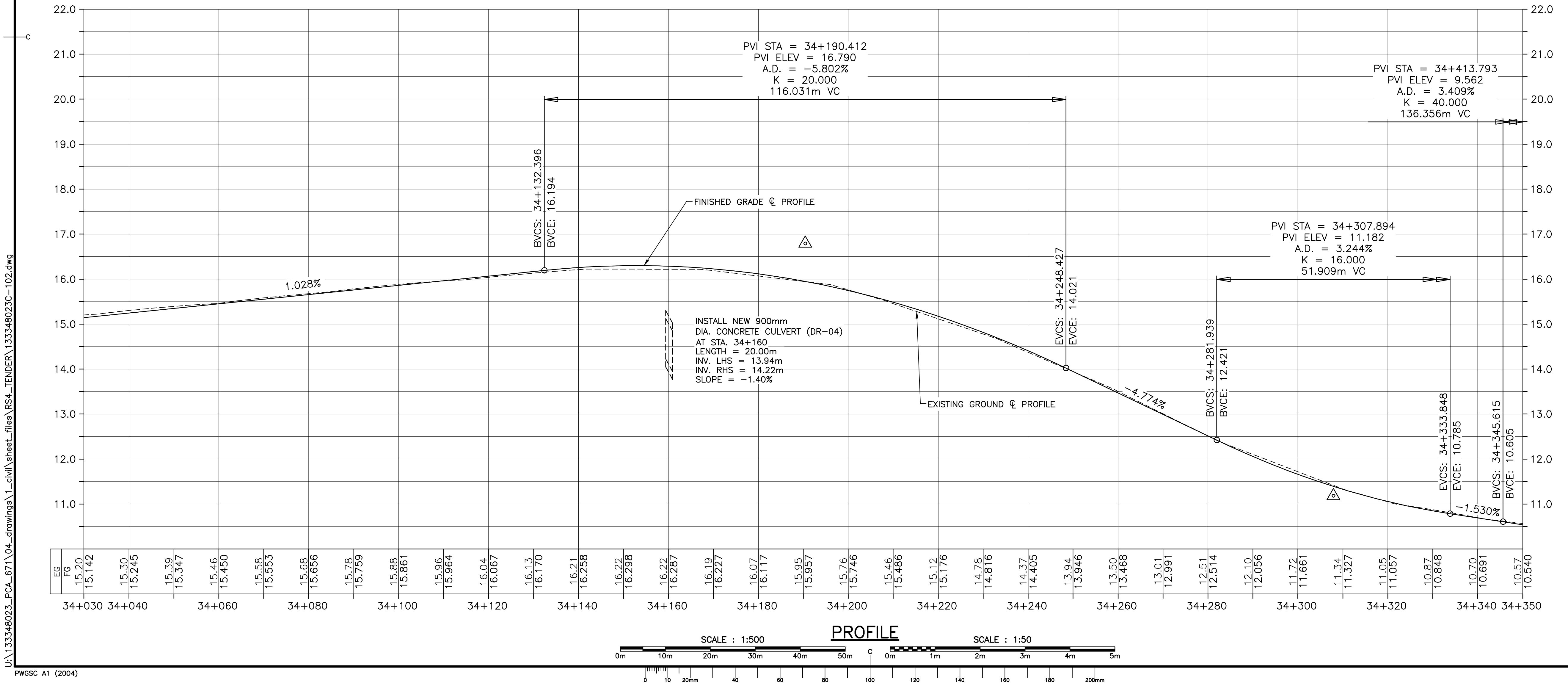
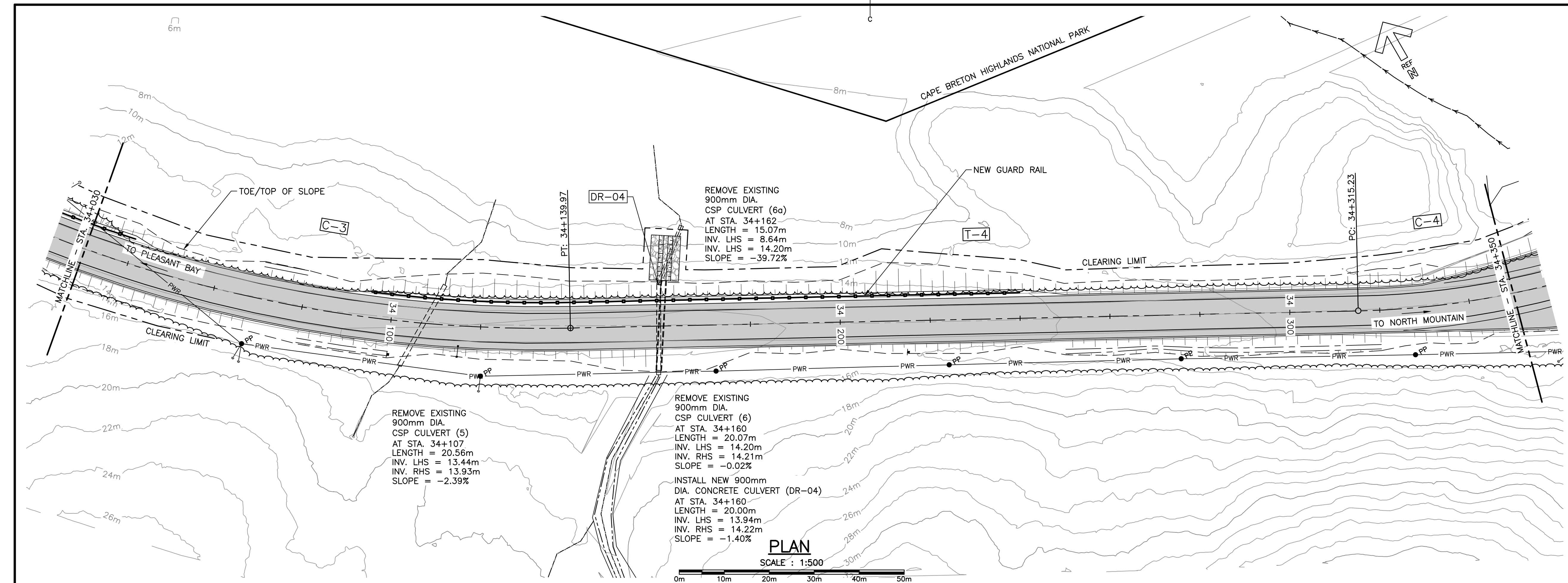
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**PLAN AND PROFILE
STA. 33+710 TO
STA. 34+030**

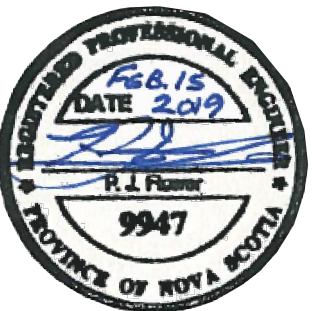
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Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
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	1114	
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	C-04	

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- LEGEND EXISTING**
- 8m CONTOUR & ELEVATION
 - ROADWAY
 - EDGE OF PAVE
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 - DAYLIGHT
 - EDGE OF GRAVEL
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- LEGEND NEW**
- EDGE OF PAVE
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project project
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drawing dessin

**PLAN AND PROFILE
STA. 34+030 TO
STA. 34+350**

designed DSC	conçu
date MAY. 31, 2018	
drawn JLD/CCP	dessiné
date MAY. 31, 2018	
approved RMB	approuvé
date FEB. 15, 2019	

Tender Soumission
PCA Project Manager Administrateur de projets PCA

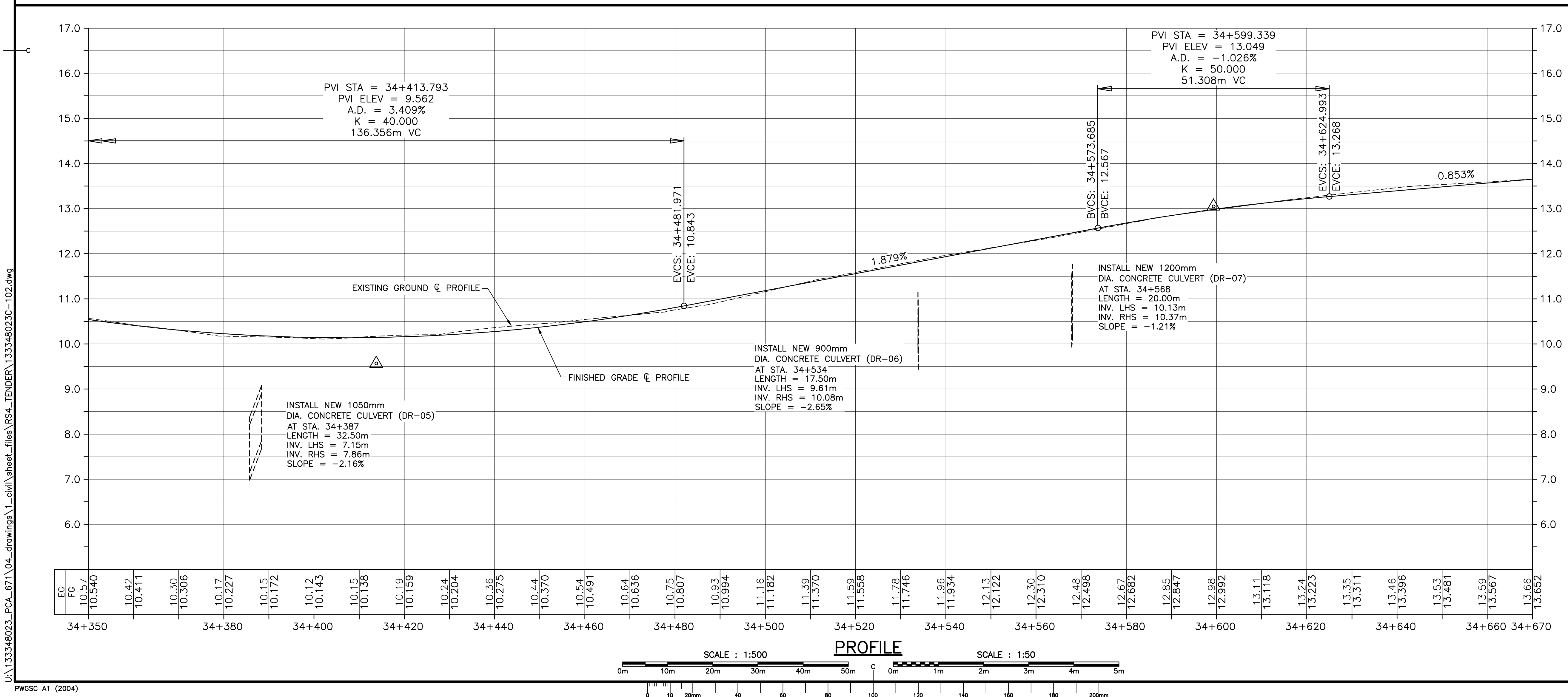
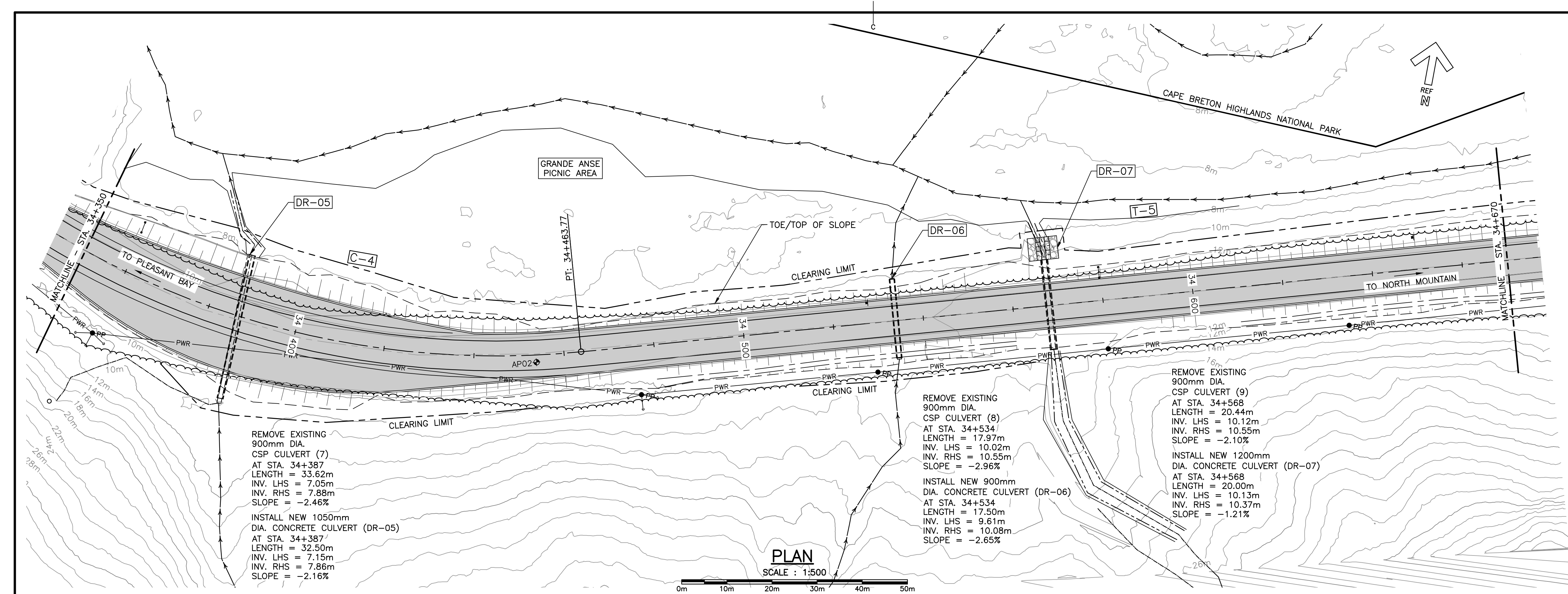
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C-05

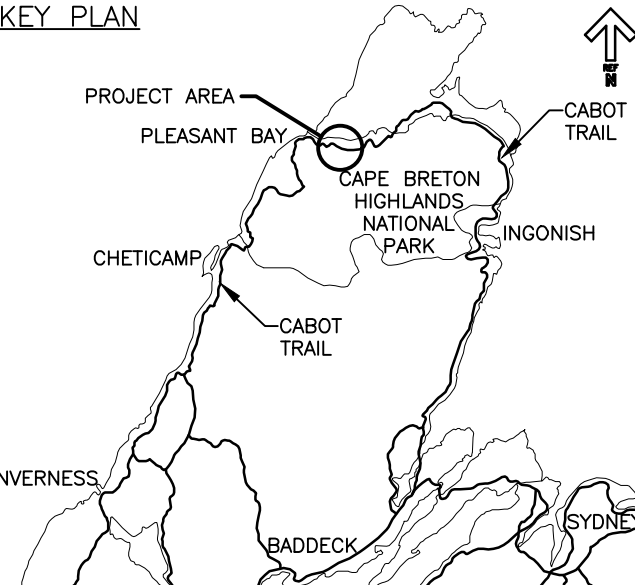
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KEY PLAN




LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
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LEGEND NEW

- EDGE OF PAVE
- ROADWAY
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- SHOULDER
- GUARD RAIL
- DITCH LINE
- DAYLIGHT (TOP/TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP



0	ISSUED FOR TENDER	02/15 2019
revisions		date
project		projet
CABOT TRAIL REHABILITATION PLEASANT BAY TO NORTH MOUNTAIN CAPE BRETON HIGHLANDS NATIONAL PARK		
drawing		dessin
PLAN AND PROFILE STA. 34+350 TO STA. 34+670		
designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet
	1114	
drawing no.		no. du dessin
	C-06	

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0m 1m 2m 3m 4m 5m

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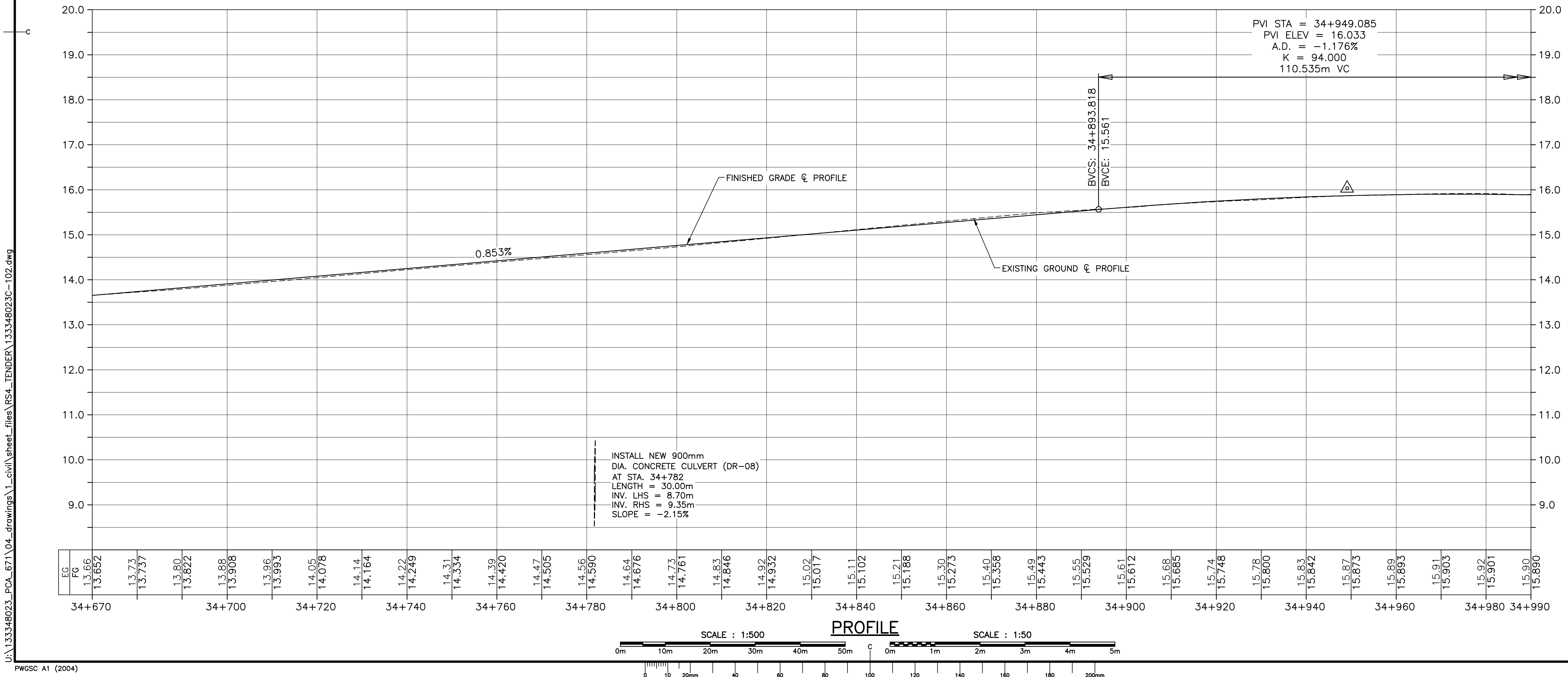
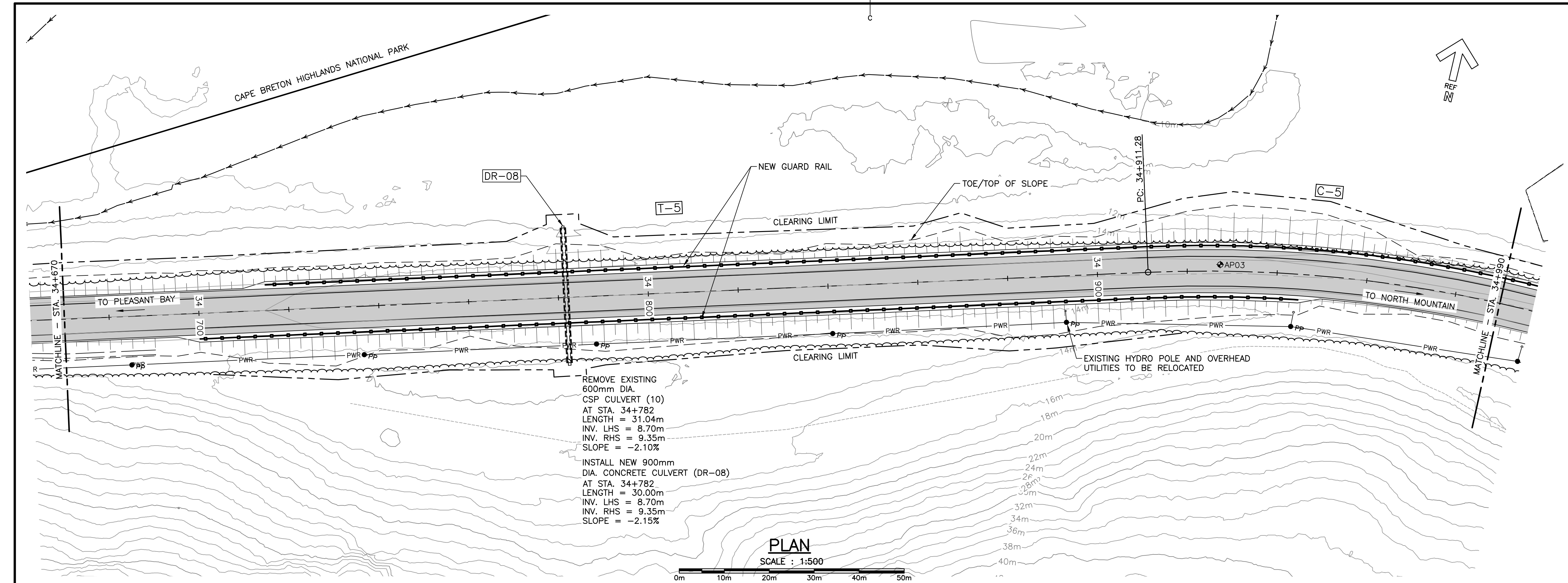
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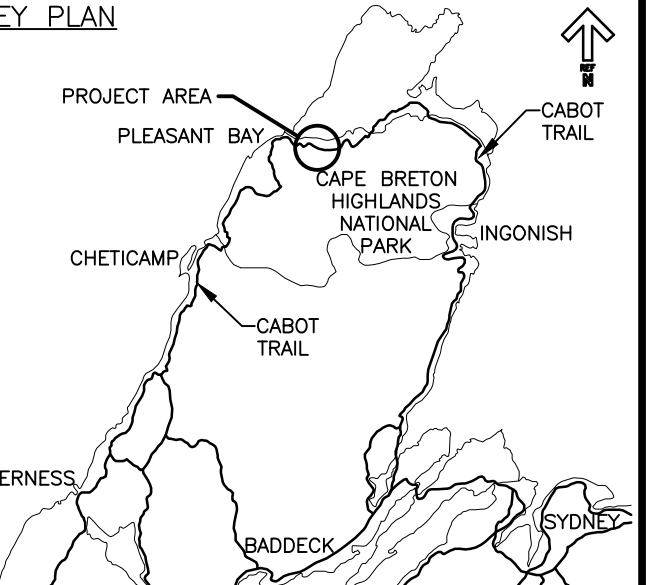





Parks
Canada

Parcs
Canada

KEY PLAN






LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ϕ ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- ϕ WATERCOURSE
- CULVERT
- SIGN
- BUILDING
- CONTROL MONUMENT
- BOREHOLE
- BELL ALIANT JUNCTION BOX
- U/G POWER/UTILITIES LINES
- PP POWER POLE / GUY WIRE
- PWR A/G POWER/UTILITIES LINES

LEGEND NEW

- EDGE OF PAVE
- ϕ ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- DITCH LINE
- DAYLIGHT (TOP/TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP



0	ISSUED FOR TENDER	02/15 2019
revisions		date
project		projet

**CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing		dessin
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designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet

1114

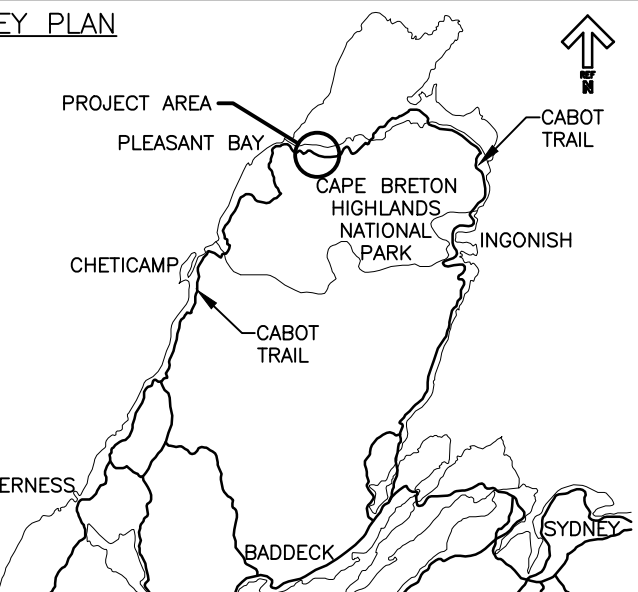
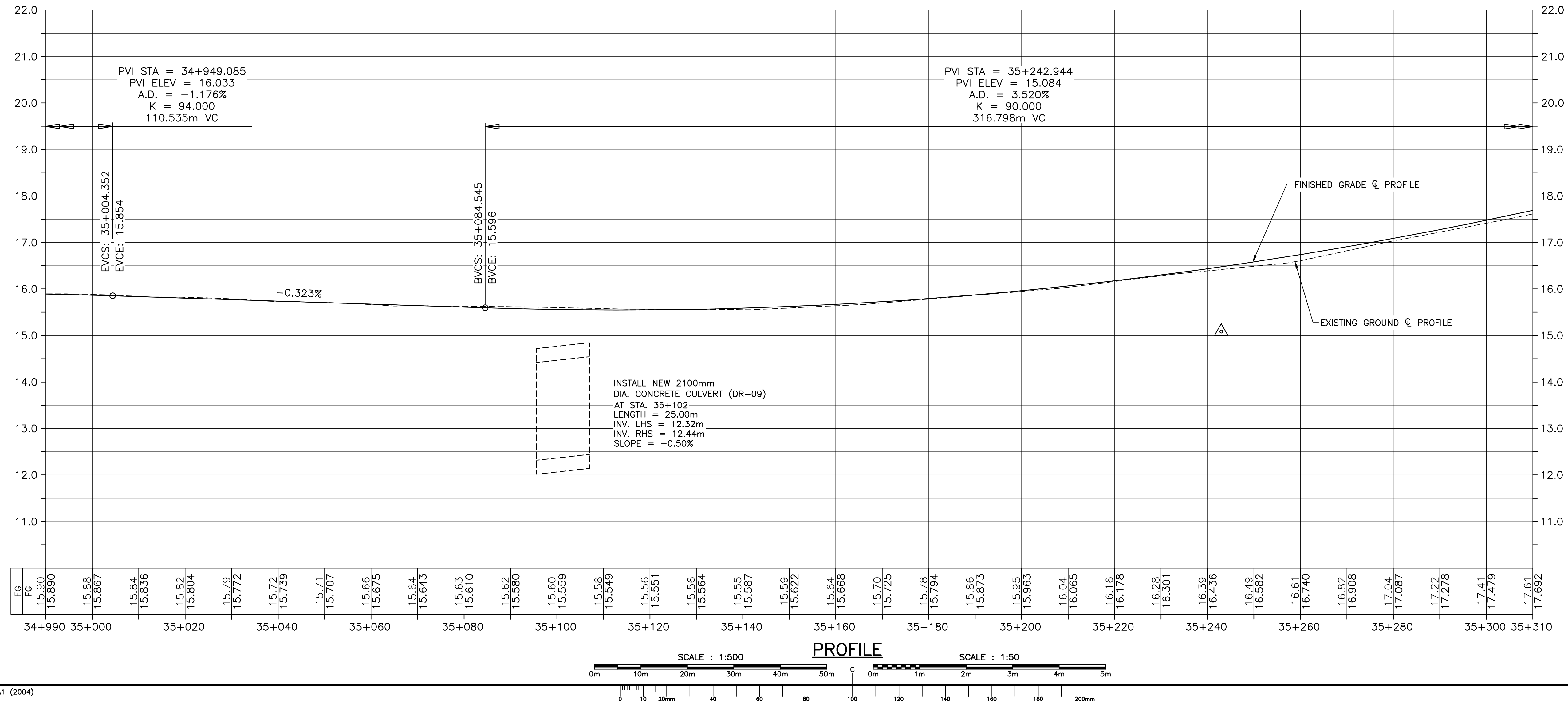
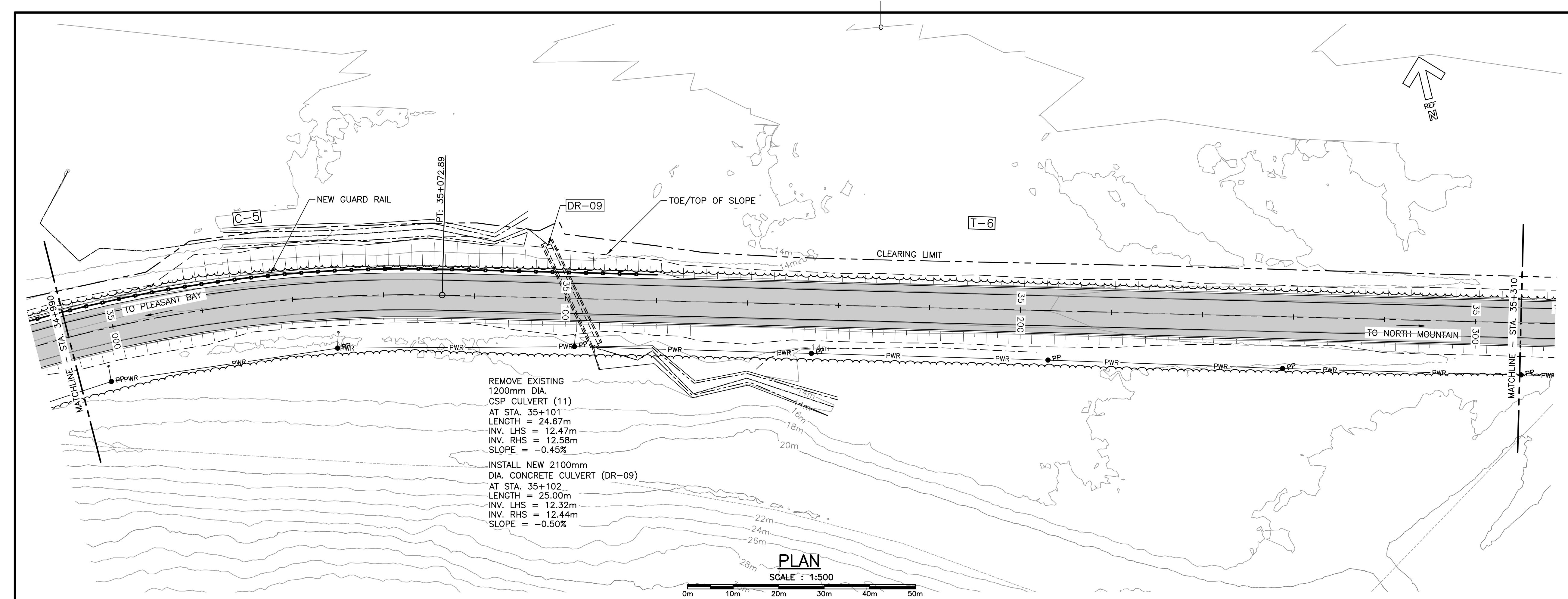
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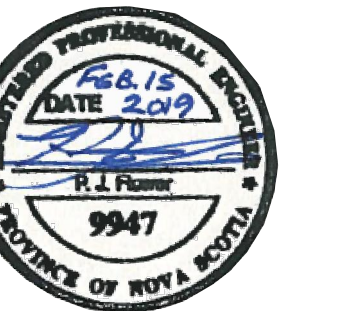
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- LEGEND EXISTING
- 8m CONTOUR & ELEVATION
 - ROADWAY
 - EDGE OF PAVE
 - GUARD RAIL
 - ASPHALT GUTTER
 - DAYLIGHT
 - EDGE OF GRAVEL
 - EDGE OF TREES
 - WATERCOURSE BOUNDARY
 - WATERCOURSE
 - CULVERT
 - SIGN
 - BUILDING
 - CONTROL MONUMENT
 - BOREHOLE
 - BELL ALIANT JUNCTION BOX
 - U/G POWER/UTILITIES LINES
 - POWER POLE / GUY WIRE
 - A/G POWER/UTILITIES LINES
- LEGEND NEW
- EDGE OF PAVE
 - ROADWAY
 - EDGE OF PAVE
 - SHOULDER
 - GUARD RAIL
 - DITCH LINE
 - DAYLIGHT (TOP/TOE)
 - EDGE OF GRAVEL
 - CLEARING LIMIT
 - CULVERT
 - RIP-RAP



0	ISSUED FOR TENDER	02/15 2019
revisions		date

project
**CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing
dessin

**PLAN AND PROFILE
STA. 34+990 TO
STA. 35+310**

designed DSC	conçu
date MAY. 31, 2018	
drawn JLD/CCP	dessiné
date MAY. 31, 2018	
approved RMB	approuvé
date FEB. 15, 2019	

Tender
PCA Project Manager
FEB. 15, 2019
Administrateur de projets PCA

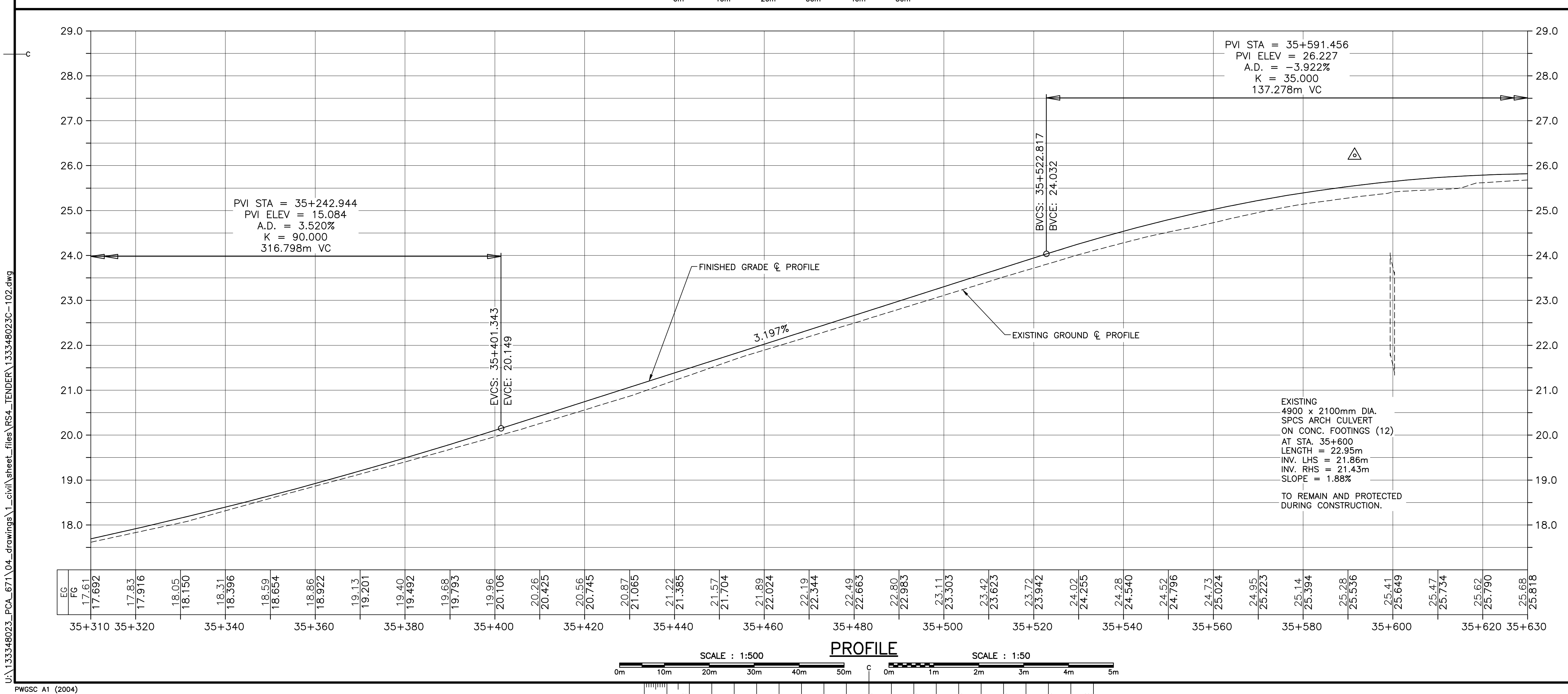
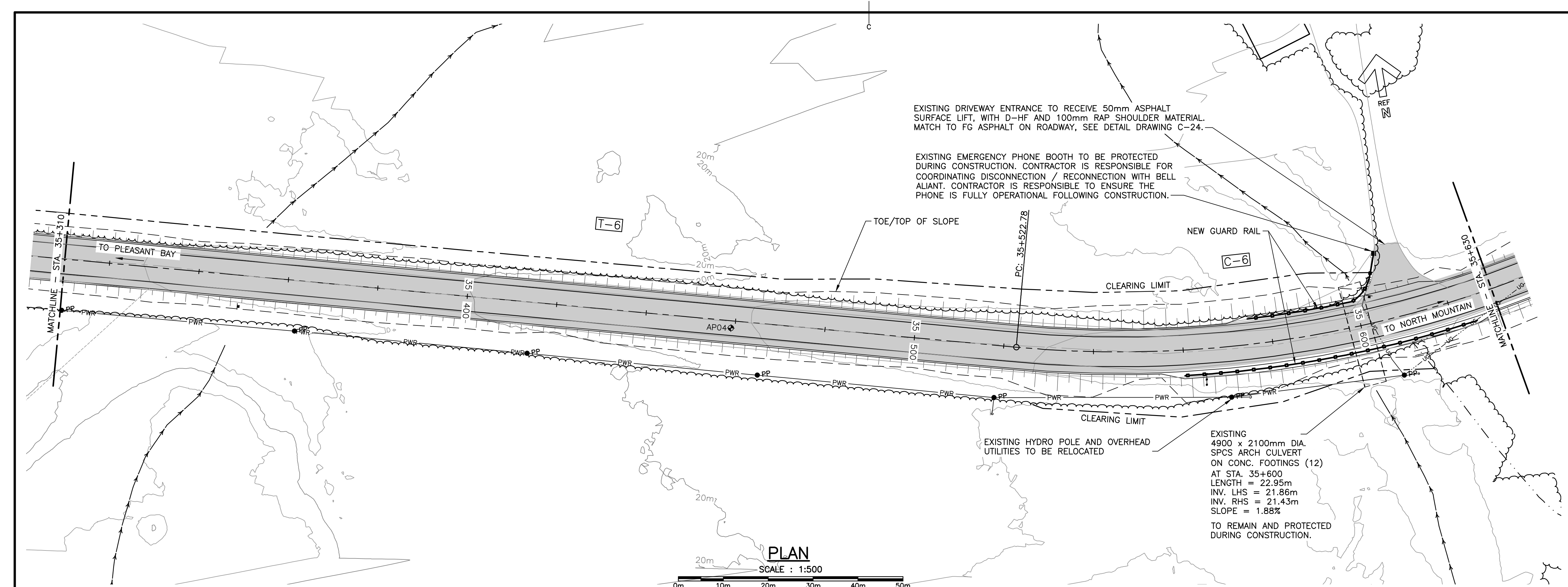
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no. du projet

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drawing no.
no. du dessin

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PWSC A1 (2004)



Parks
Canada

Parcs
Canada

KEY PLAN

LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- WATERCOURSE
- CULVERT
- SIGN
- BUILDING
- CONTROL MONUMENT
- BOREHOLE
- BELL ALIANT JUNCTION BOX
- U/G POWER/UTILITIES LINES
- POWER POLE / GUY WIRE
- A/G POWER/UTILITIES LINES

LEGEND NEW

- EDGE OF PAVE
- ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- DITCH LINE
- DAYLIGHT (TOP/TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP

0	ISSUED FOR TENDER	02/15 2019
revisions		date
project		project

**CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing		dessin
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**PLAN AND PROFILE
STA. 35+310 TO
STA. 35+630**

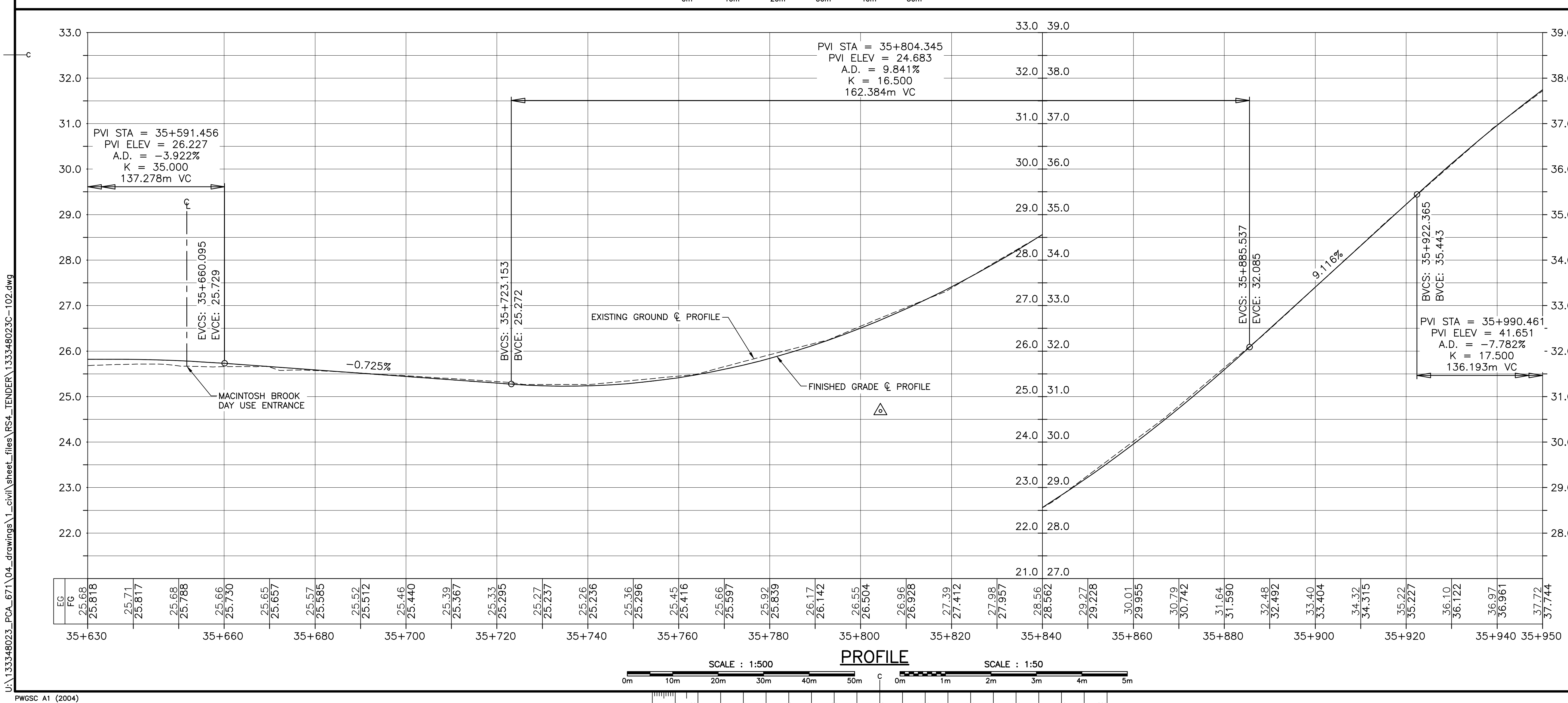
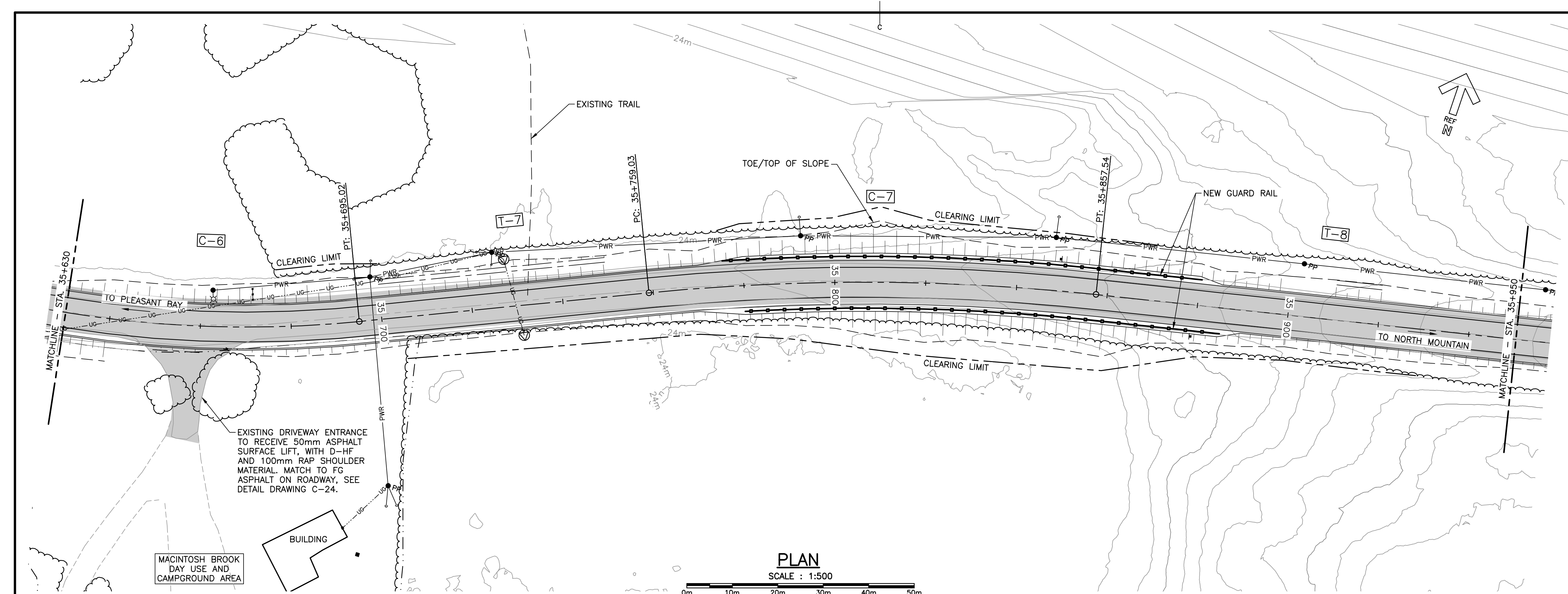
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date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet

1114

drawing no.		no. du dessin
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C-09

E-DRM/GDD-E: NOT IN SYSTEM



Parks
Canada

Parcs
Canada

KEY PLAN

LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- WATERCOURSE
- CULVERT
- SIGN
- BUILDING
- CONTROL MONUMENT
- BOREHOLE
- BELL ALIANT JUNCTION BOX
- U/G POWER/UTILITIES LINES
- POWER POLE / GUY WIRE
- A/G POWER/UTILITIES LINES

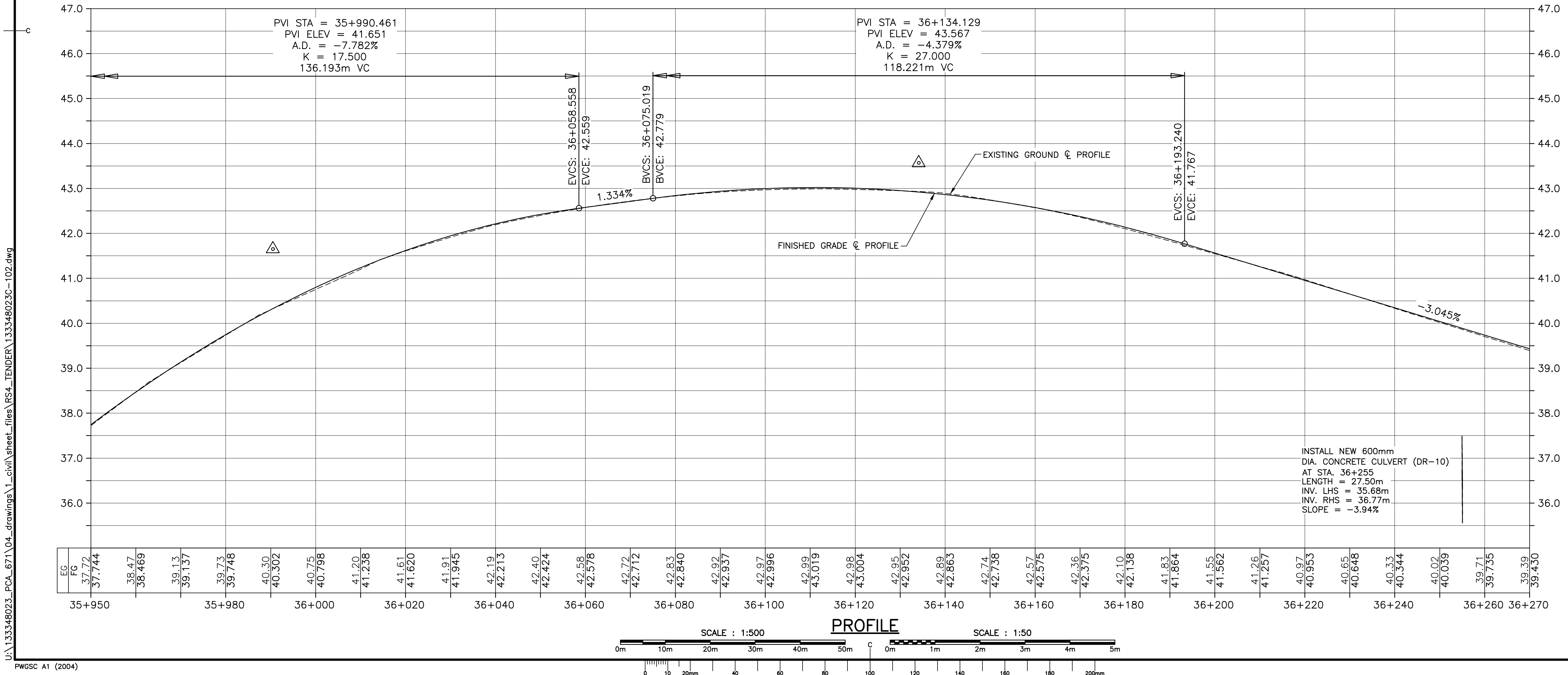
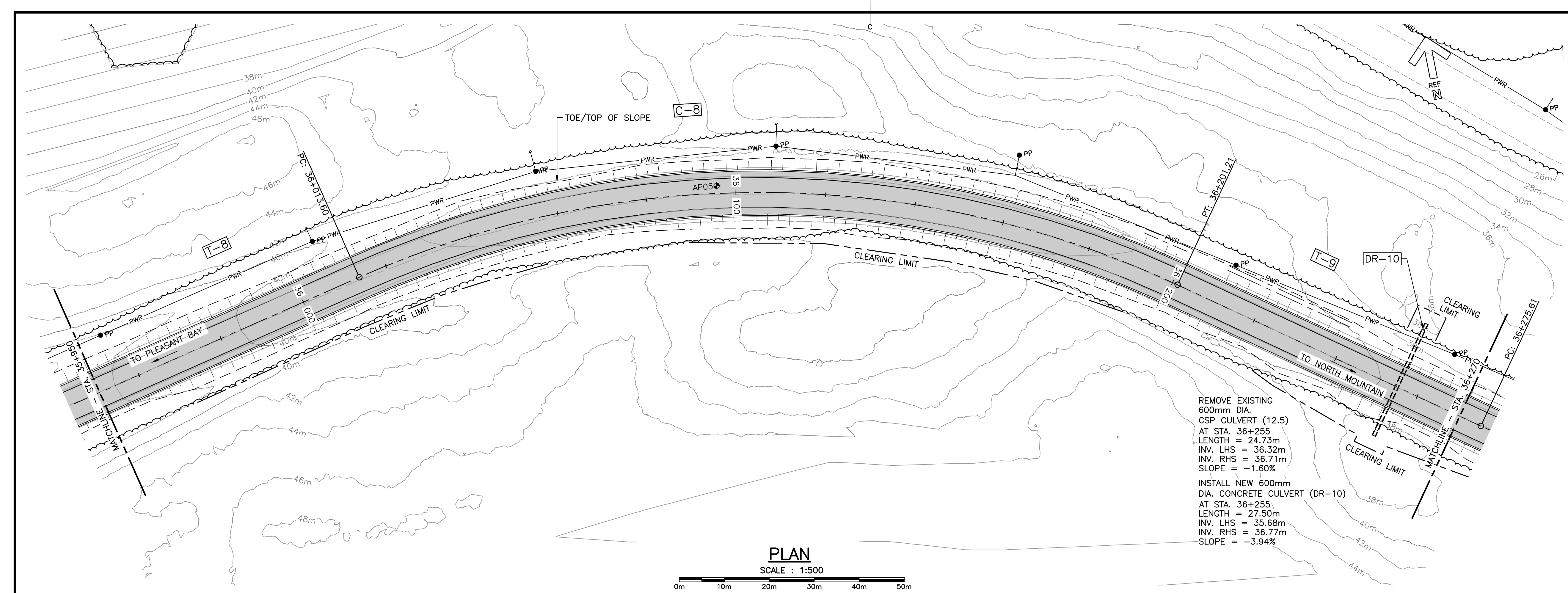
LEGEND NEW


- EDGE OF PAVE
- ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- DITCH LINE
- DAYLIGHT (TOP/TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP

0	ISSUED FOR TENDER	02/15 2019
revisions		date
project	project	
CABOT TRAIL REHABILITATION PLEASANT BAY TO NORTH MOUNTAIN CAPE BRETON HIGHLANDS NATIONAL PARK		
drawing	dessin	
PLAN AND PROFILE STA. 35+630 TO STA. 35+950		
designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	
Tender	Soumission	
PCA Project Manager	Administrateur de projets PCA	
project number	no. du projet	
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drawing no.	no. du dessin	
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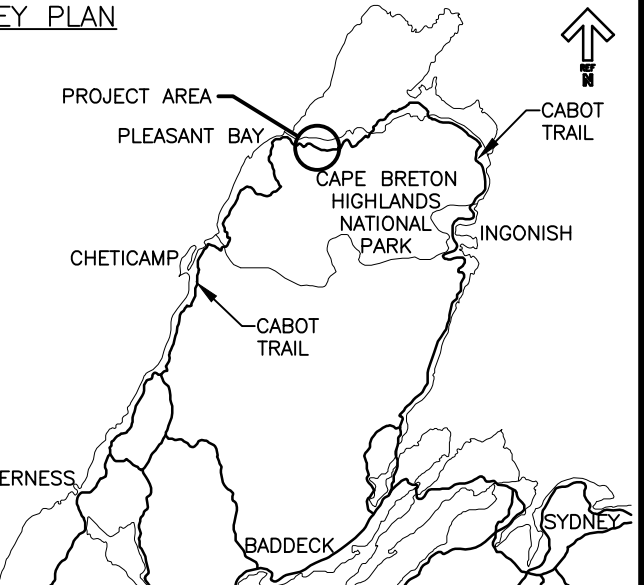
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Parks
Canada

Parcs
Canada

KEY PLAN




LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- WATERCOURSE
- CULVERT
- SIGN
- BUILDING
- CONTROL MONUMENT
- BOREHOLE
- BELL ALIANT JUNCTION BOX
- U/G POWER/UTILITIES LINES
- POWER POLE / GUY WIRE
- A/G POWER/UTILITIES LINES

LEGEND NEW

- EDGE OF PAVE
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- DITCH LINE
- DAYLIGHT (TOP/TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP



0	ISSUED FOR TENDER	02/15 2019
revisions		date
project	project	

**CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing	dessin	
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**PLAN AND PROFILE
STA. 35+950 TO
STA. 36+270**

designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	
Tender	Soumission	
PCA Project Manager	Administrateur de projets PCA	
project number	no. du projet	

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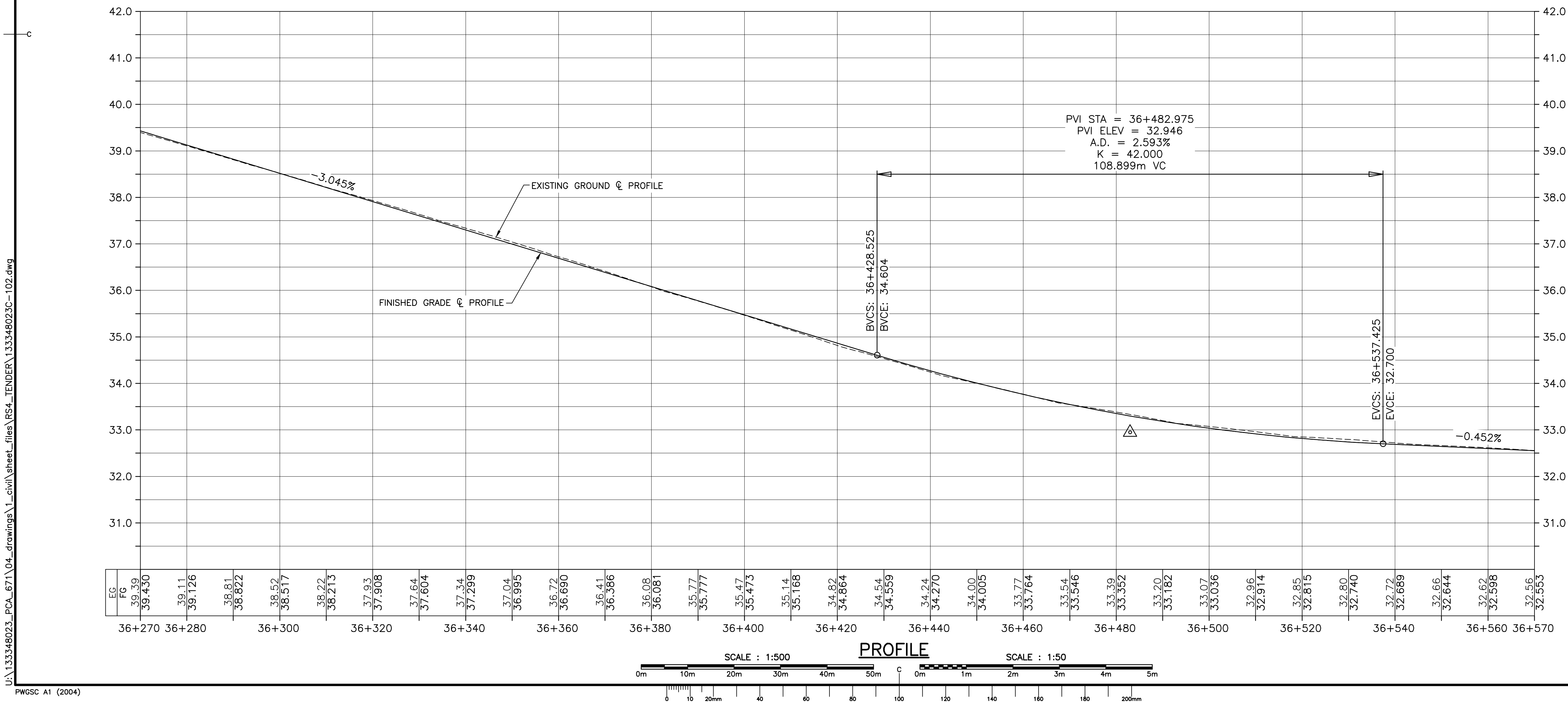
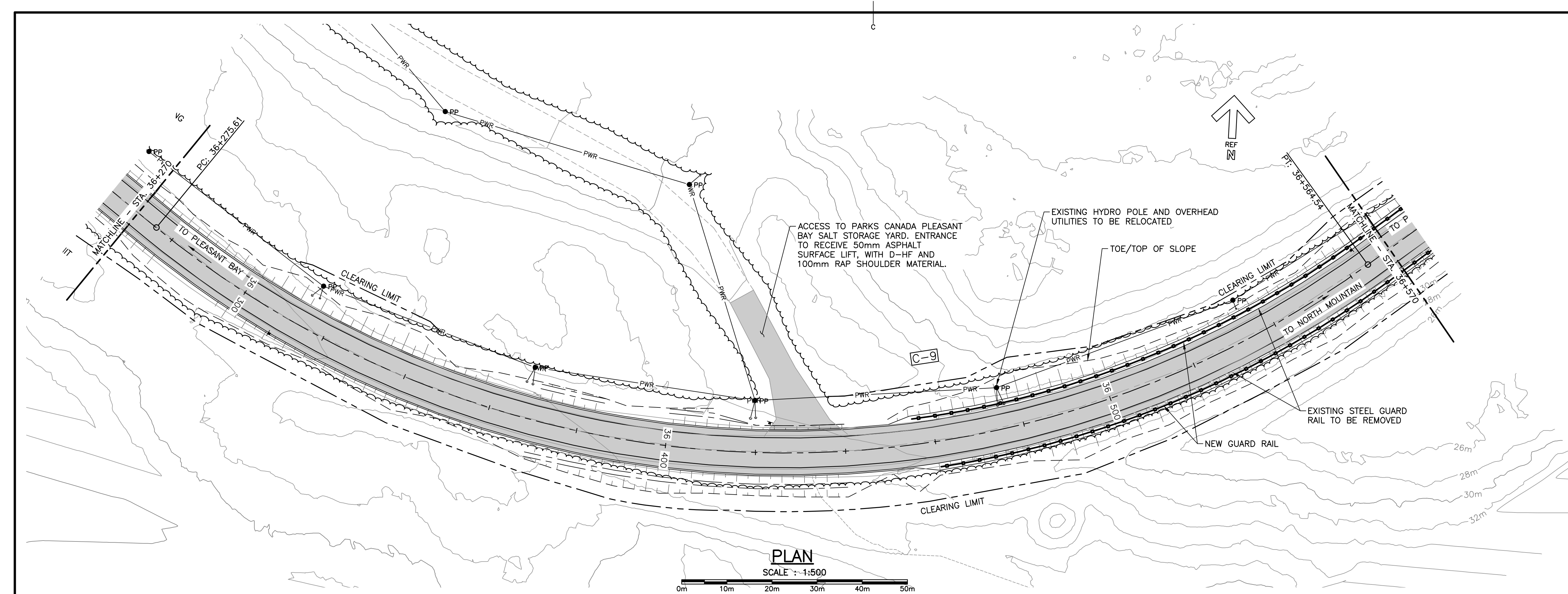
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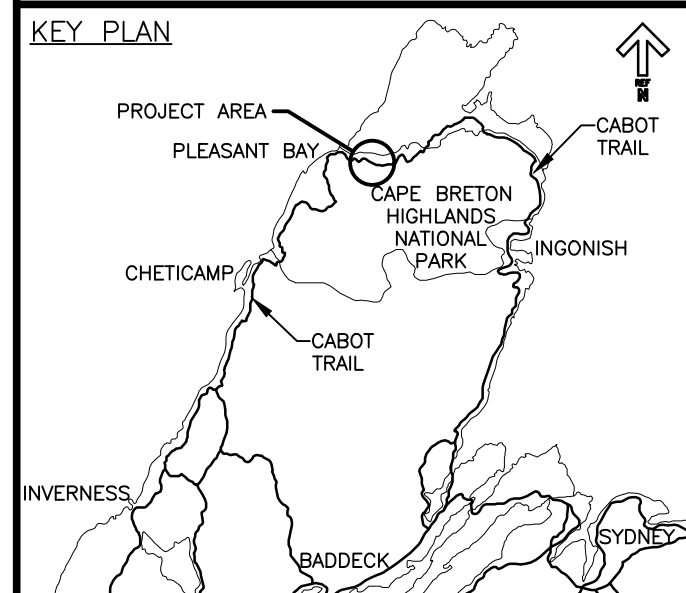
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PWGS C A1 (2004)



Parks Canada

KEY PLAN

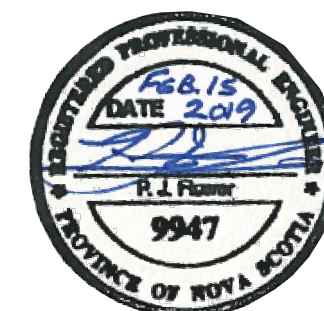


LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- WATERCOURSE
- CULVERT
- SIGN
- BUILDING
- CONTROL MONUMENT
- BOREHOLE
- BELL ALIANT JUNCTION BOX
- U/G POWER/UTILITIES LINES
- POWER POLE / GUY WIRE
- A/G POWER/UTILITIES LINES

LEGEND NEW

- EDGE OF PAVE
- ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- DITCH LINE
- DAYLIGHT (TOP/TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP



0	ISSUED FOR TENDER	02/15 2019
revisions		date

project	project
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CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing	dessin
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PLAN AND PROFILE
STA. 36+270 TO
STA. 36+570

designed	DSC	conçu
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date	MAY. 31, 2018	
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drawn	JLD/CCP	dessiné
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date	MAY. 31, 2018	
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approved	RMB	approuvé
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date	FEB. 15, 2019	
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Tender		Soumission
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PCA Project Manager		Administrateur de projets PCA
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project number		no. du projet
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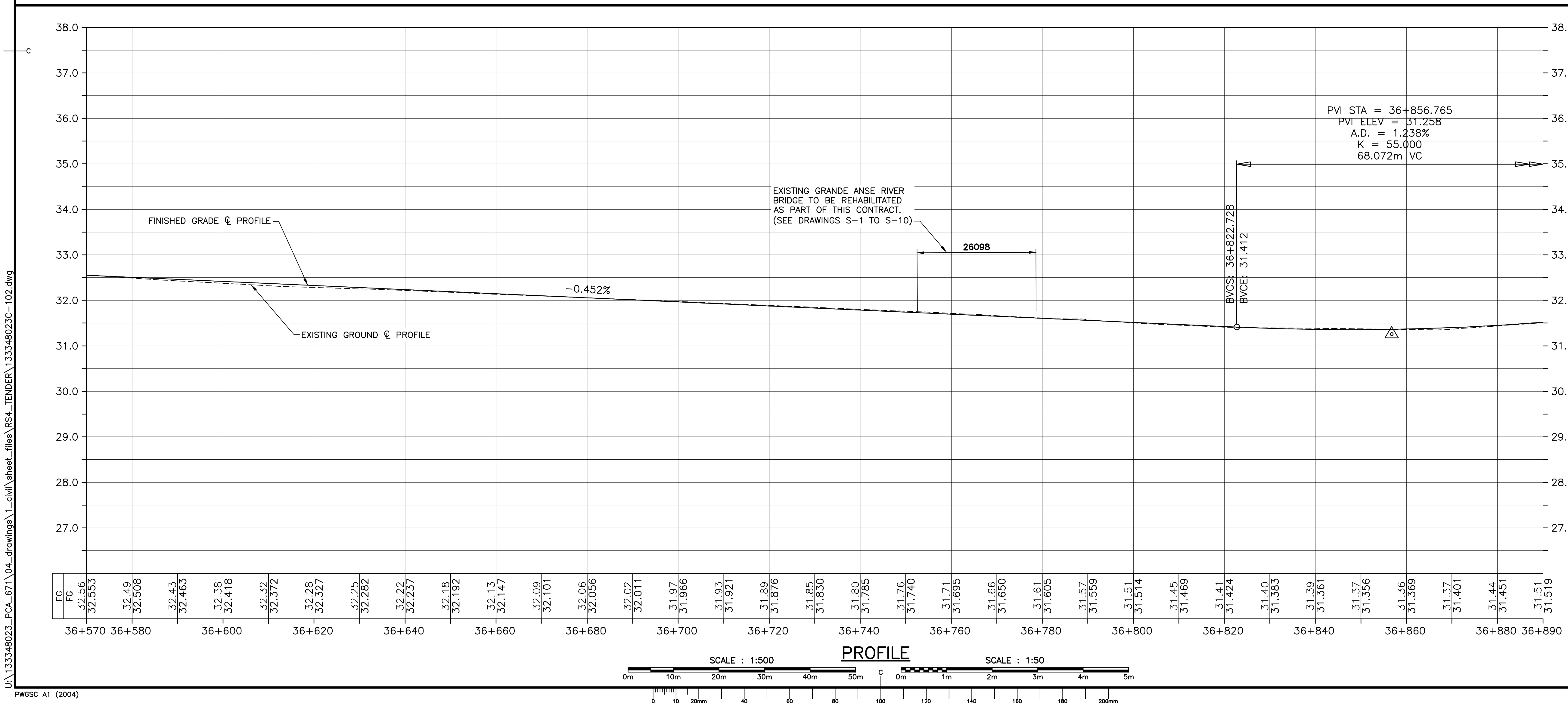
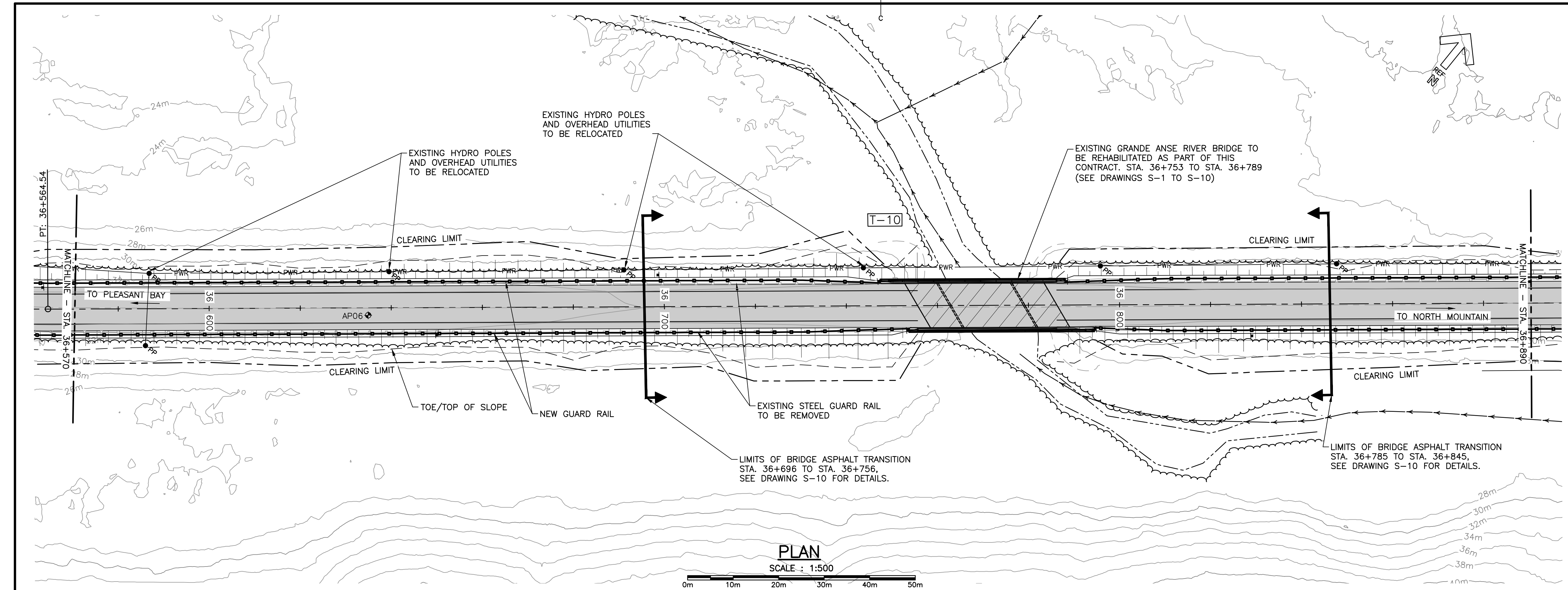
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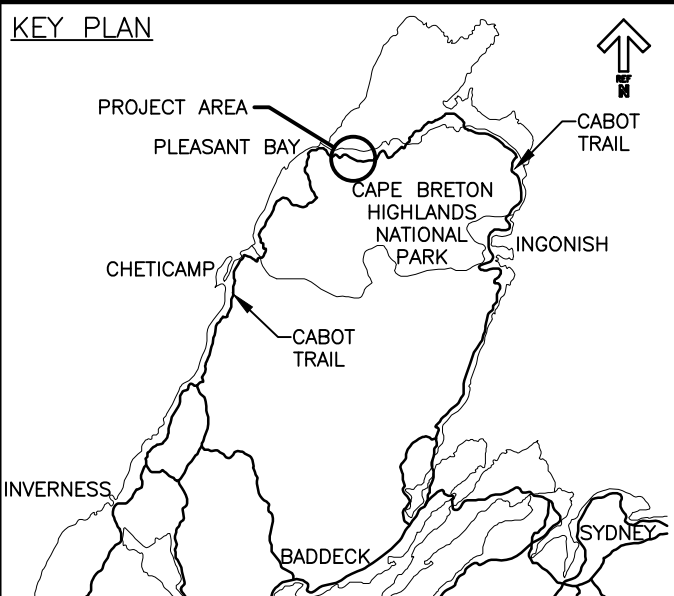
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PWGSC A1 (2004)



Parks Canada Parcs Canada

KEY PLAN

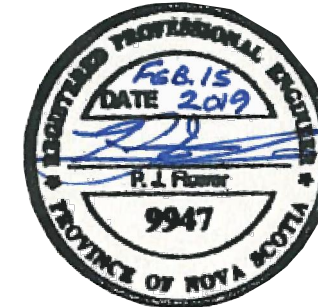


LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- WATERCOURSE
- CULVERT
- SIGN
- BUILDING
- CONTROL MONUMENT
- BOREHOLE
- BELL ALIANT JUNCTION BOX
- U/G POWER/UTILITIES LINES
- POWER POLE / GUY WIRE
- A/G POWER/UTILITIES LINES

LEGEND NEW

- EDGE OF PAVE
- ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- DITCH LINE
- DAYLIGHT (TOP/TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP



0	ISSUED FOR TENDER	02/15 2019
revisions		date

project	project
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**CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing	dessin
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**PLAN AND PROFILE
STA. 36+570 TO
STA. 36+890**

designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	

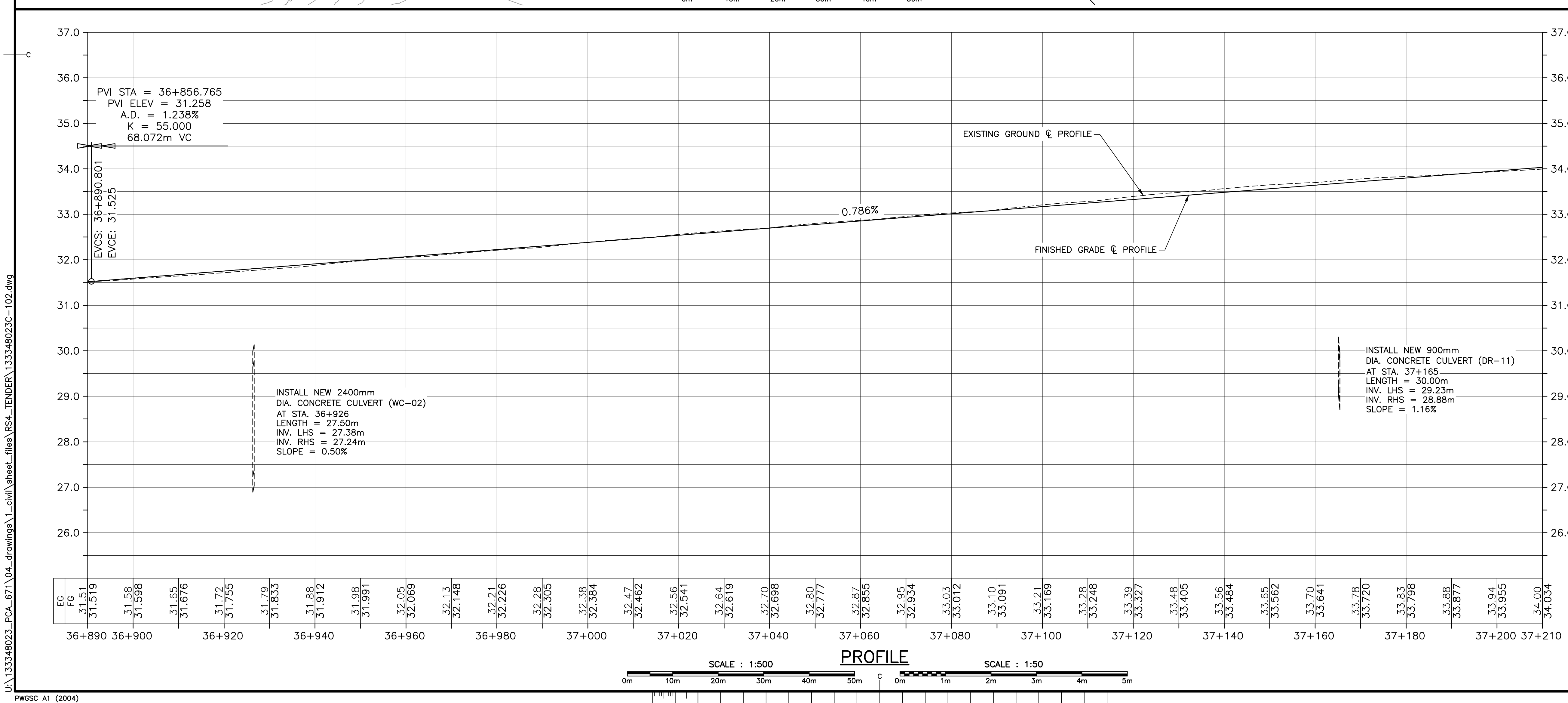
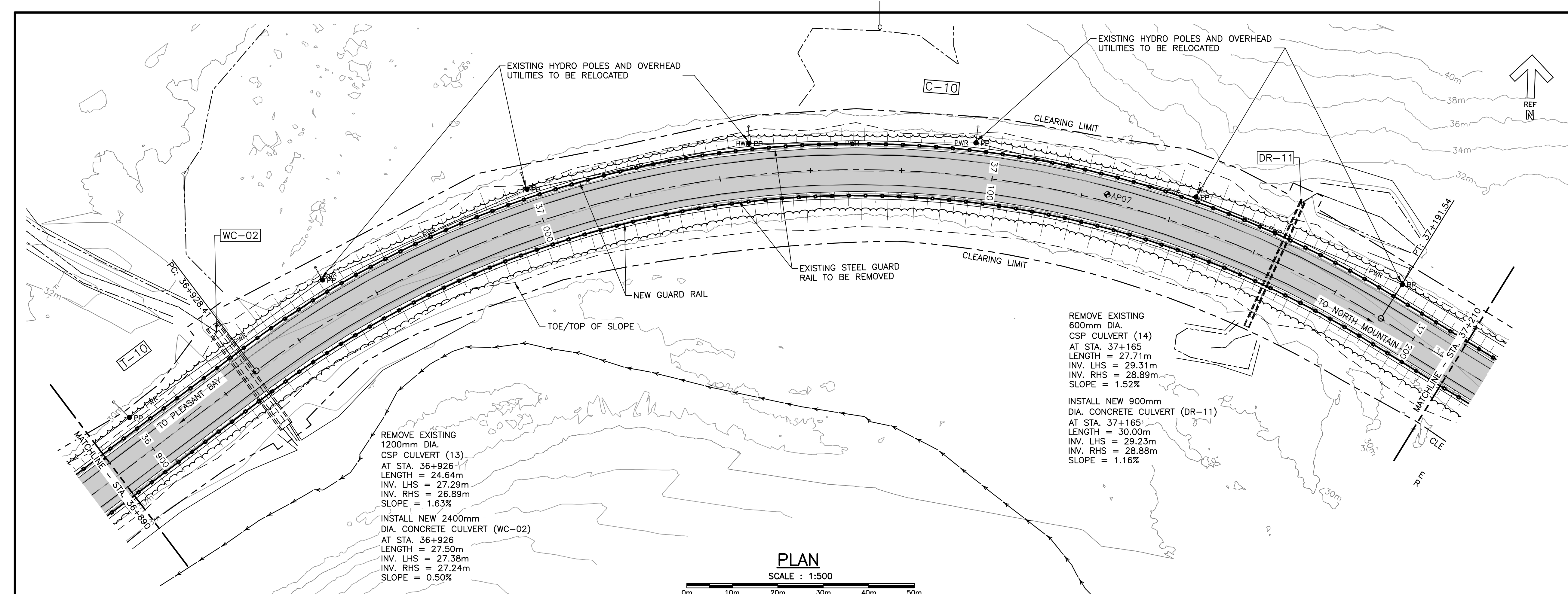
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PCA Project Manager	Administrateur de projets PCA
project number	no. du projet


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drawing no.	no. du dessin
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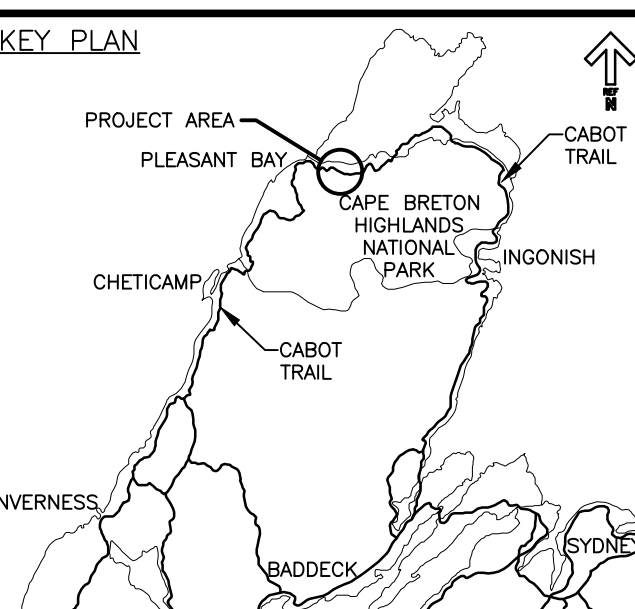
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Parks CanadaParcs Canada

KEY PLAN

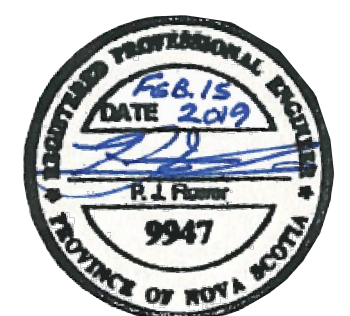


LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- WATERCOURSE
- CULVERT
- SIGN
- BUILDING
- CONTROL MONUMENT
- BOREHOLE
- BELL ALIANT JUNCTION BOX
- U/G POWER/UTILITIES LINES
- POWER POLE / GUY WIRE
- A/G POWER/UTILITIES LINES

LEGEND NEW

- EDGE OF PAVE
- ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- DITCH LINE
- DAYLIGHT (TOP/TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP



0	ISSUED FOR TENDER	02/15 2019
revisions		date
project		project

**CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing	dessin
designed	DSC
date	MAY. 31, 2018
drawn	JLD/CCP
date	MAY. 31, 2018
approved	RMB
date	FEB. 15, 2019
Tender	Soumission
PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

**PLAN AND PROFILE
STA. 36+890 TO
STA. 37+210**

designed	DSC	conçu
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drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	
Tender	Soumission	
PCA Project Manager	Administrateur de projets PCA	
project number	no. du projet	

1114

drawing no.	no. du dessin
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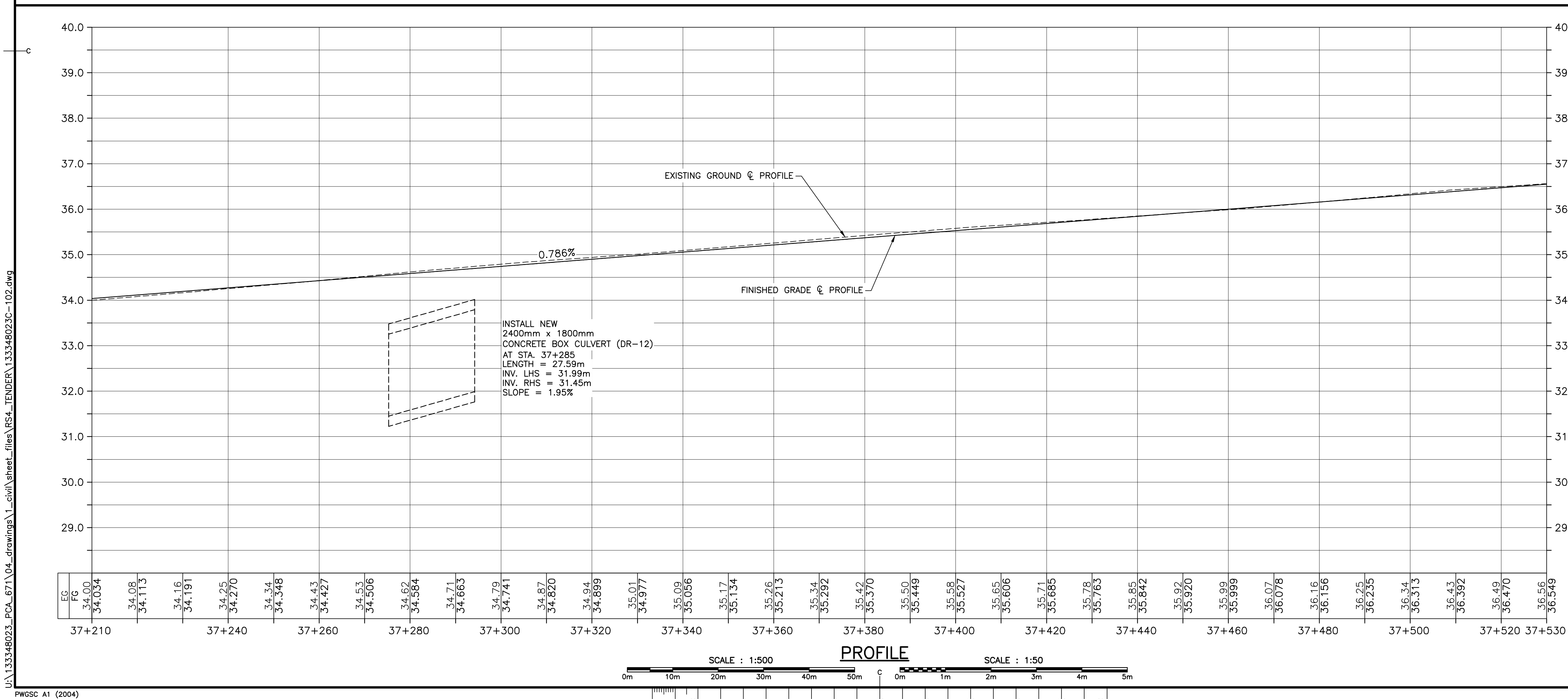
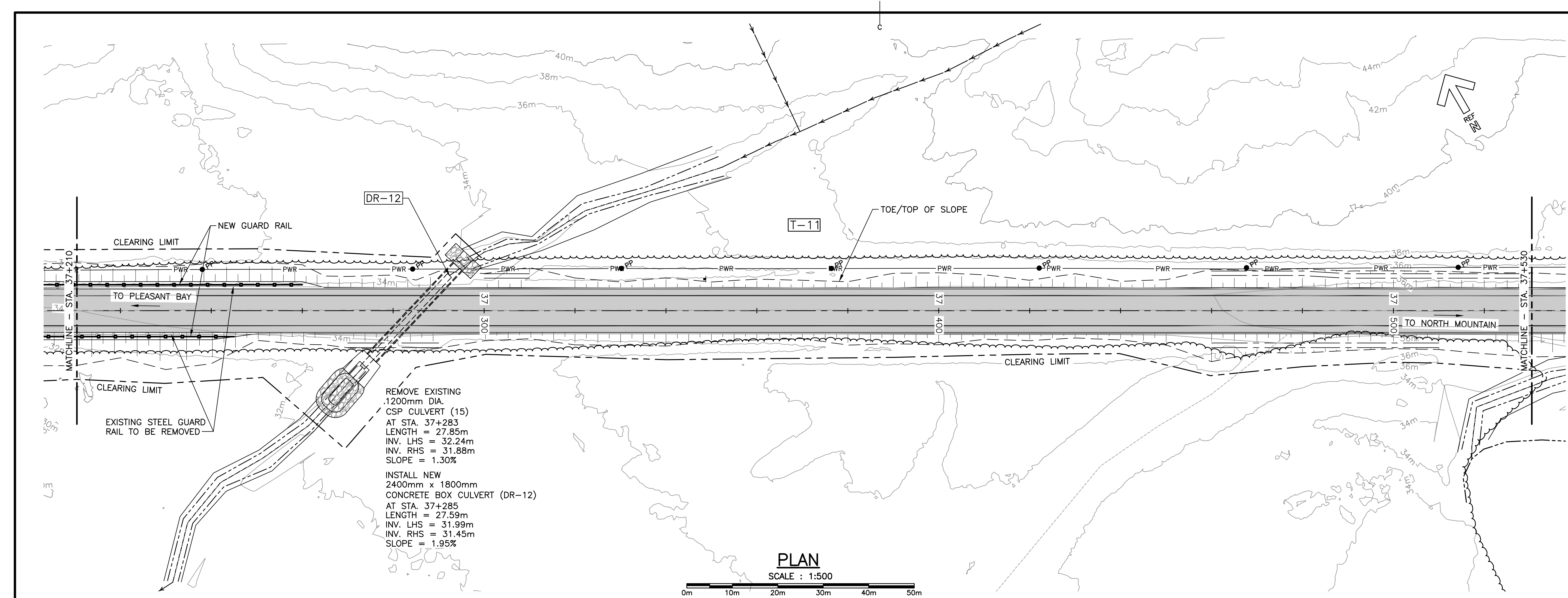
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PWSC A1 (2004)

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PWOSC A1 (2004)



Parks Canada

KEY PLAN

LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ϕ ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- ϕ WATERCOURSE
- CULVERT
- SIGN
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- BOREHOLE
- BELL ALIANT JUNCTION BOX
- U/G POWER/UTILITIES LINES
- PP POWER POLE / GUY WIRE
- PWR A/G POWER/UTILITIES LINES

LEGEND NEW

- EDGE OF PAVE
- ϕ ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- DITCH LINE
- DAYLIGHT (TOP/TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP

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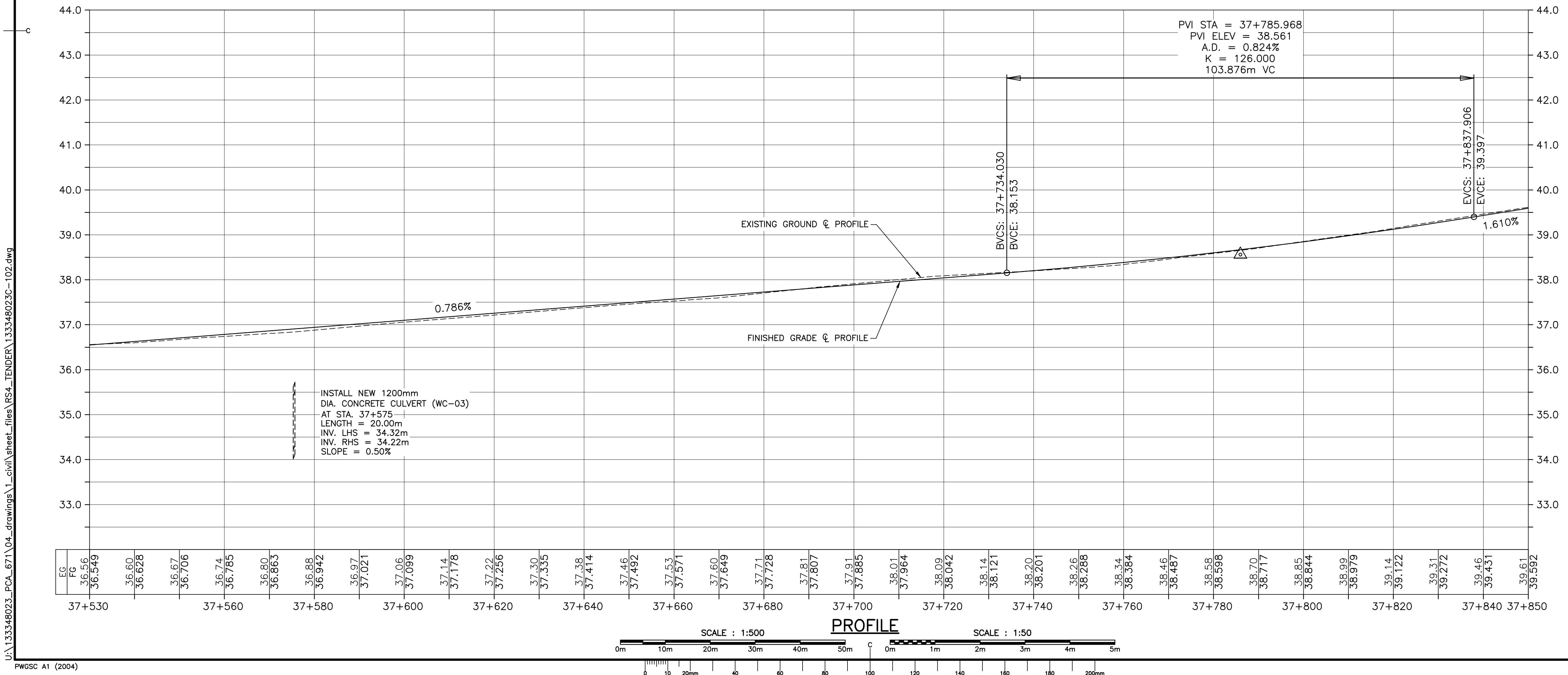
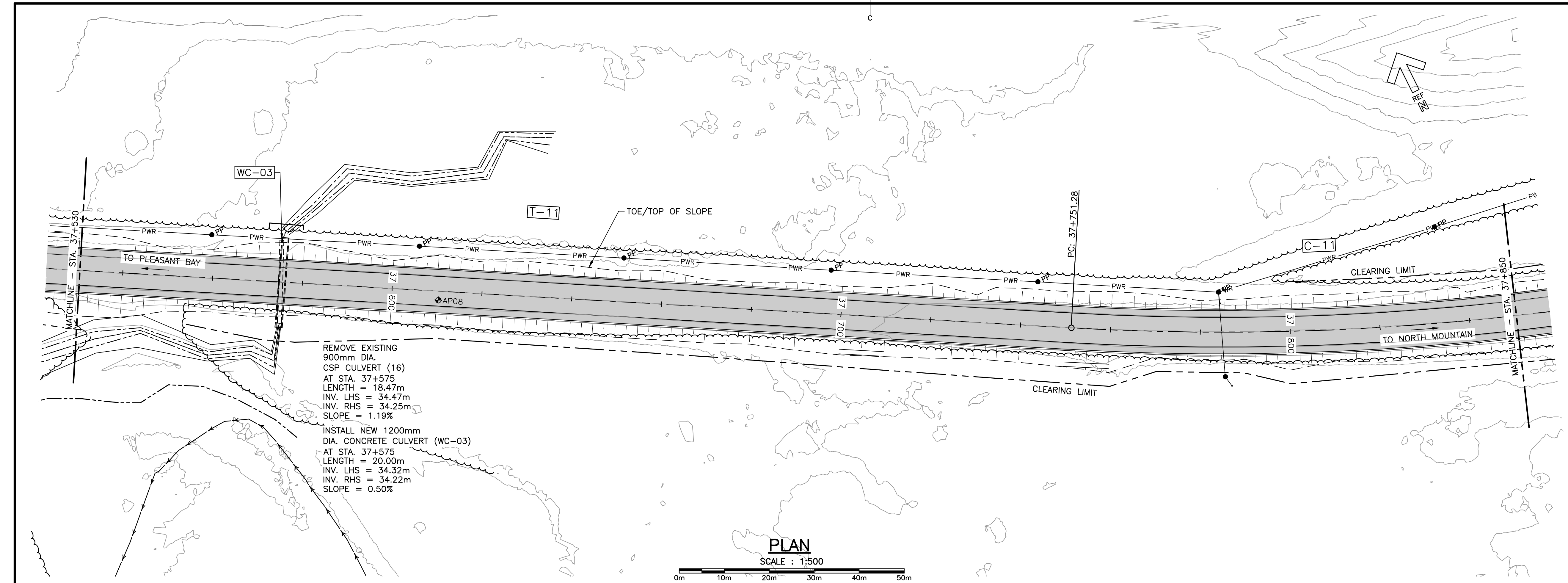
revisions	date
project	project

**CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK**

designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet
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Parks Canada

KEY PLAN

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LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
- WATERCOURSE BOUNDARY
- WATERCOURSE
- CULVERT
- SIGN
- BUILDING
- CONTROL MONUMENT
- BOREHOLE
- BELL ALIANT JUNCTION BOX
- U/G POWER/UTILITIES LINES
- POWER POLE / GUY WIRE
- A/G POWER/UTILITIES LINES

LEGEND NEW

- EDGE OF PAVE
- ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- DITCH LINE
- DAYLIGHT (TOP/TOE)
- EDGE OF GRAVEL
- CLEARING LIMIT
- CULVERT
- RIP-RAP

PROFESSIONAL ENGINEER
R.J. Fournier
No. 9947
DATE: Feb. 15, 2019

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revisions		date
project	project	

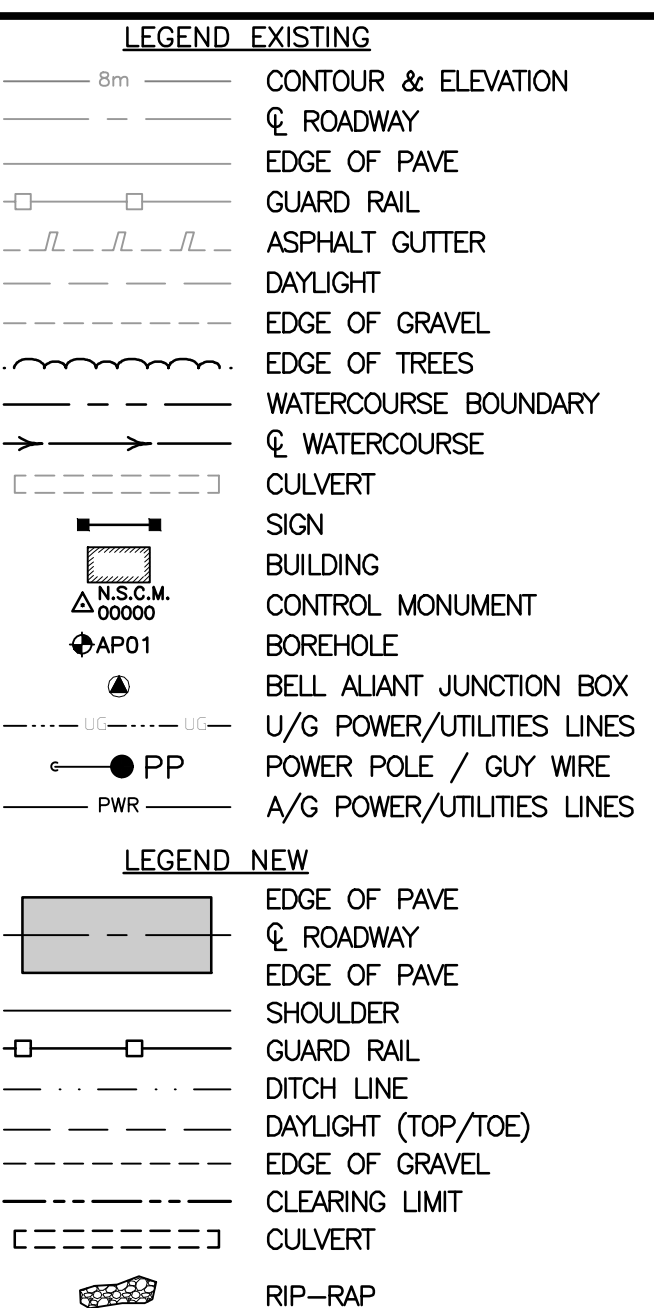
**CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing	dessin	
designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	
Tender	Soumission	
PCA Project Manager	Administrateur de projets PCA	
project number	no. du projet	

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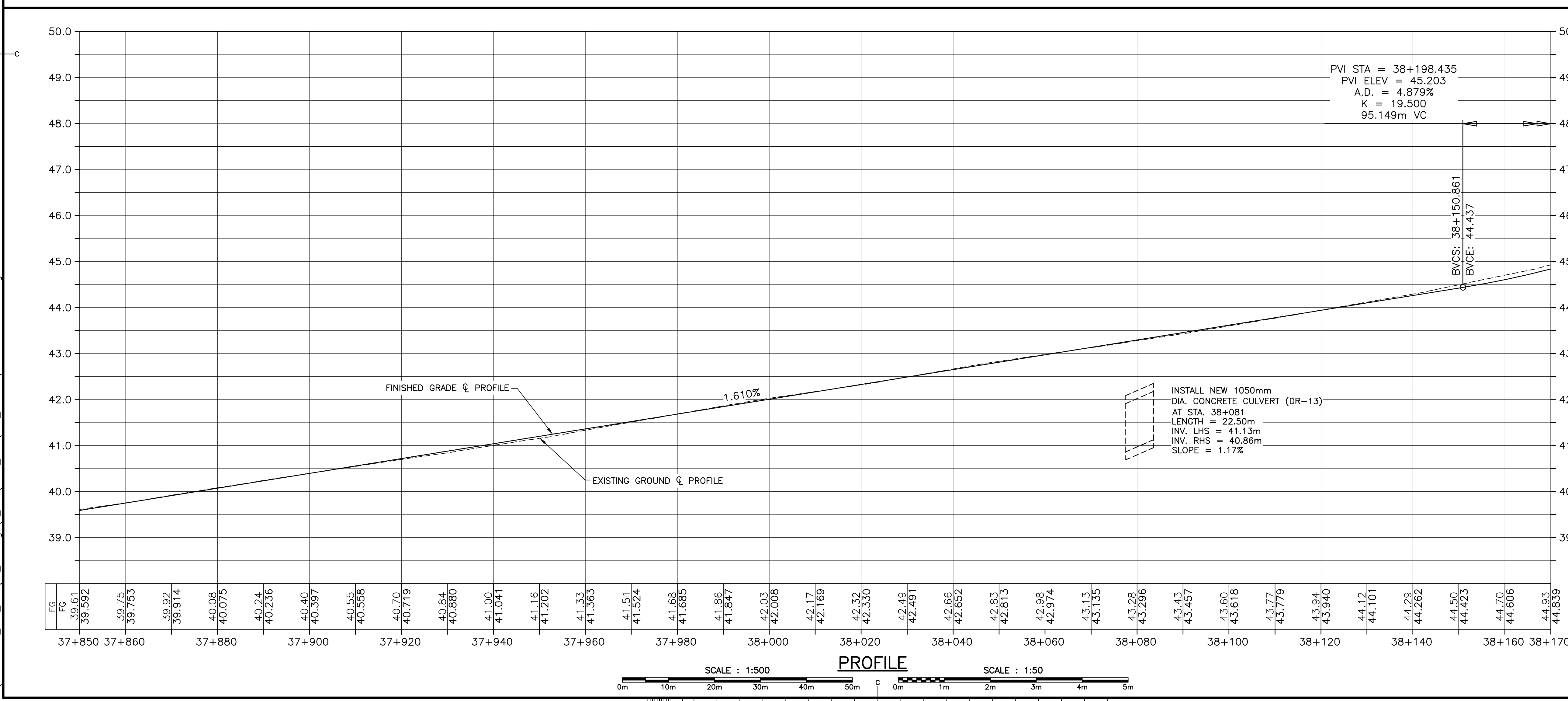
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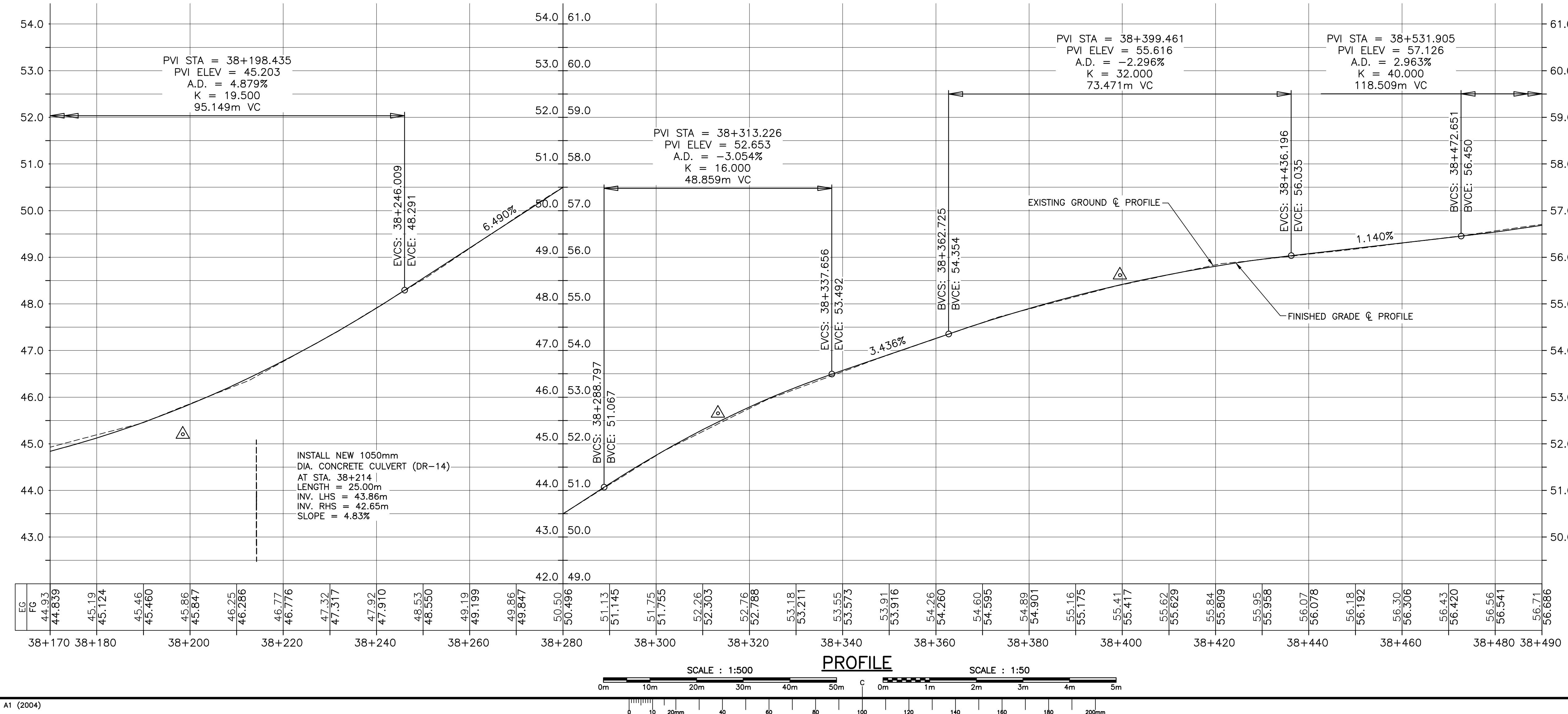
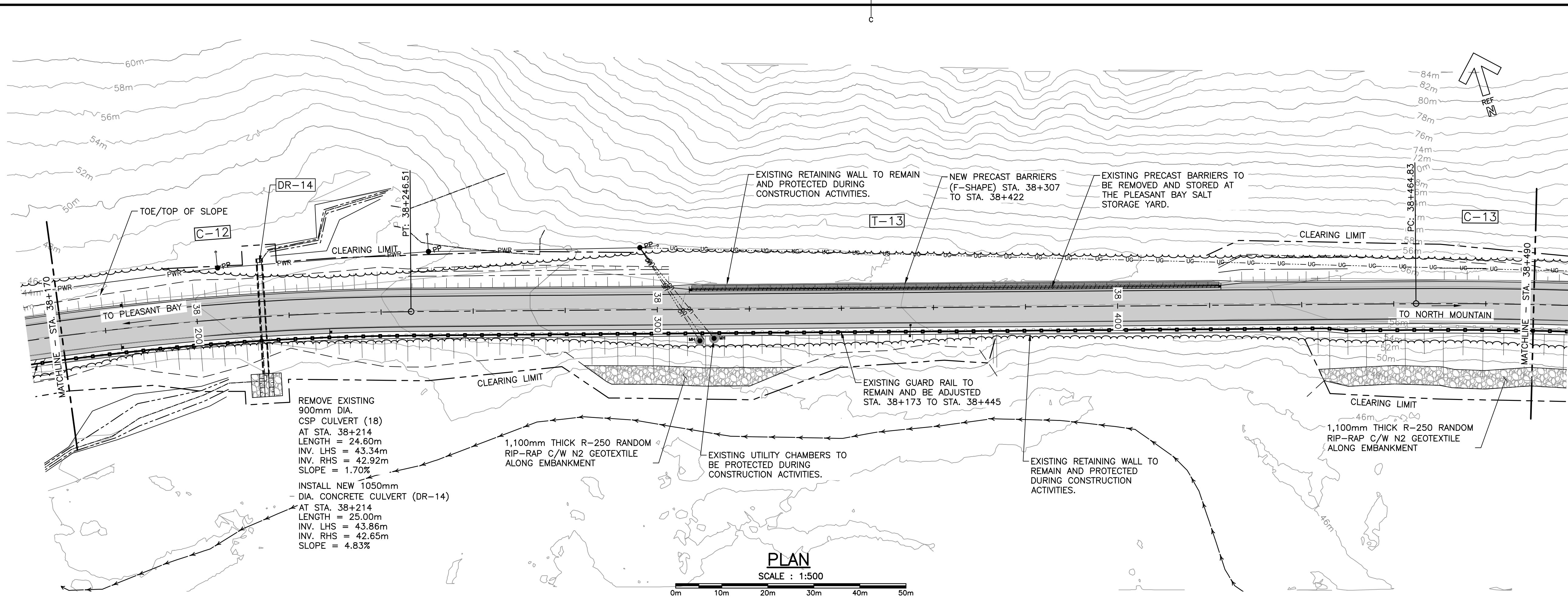
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Tender	Soumission
	FEB. 15, 2019
PCA Project Manager	Administrateur de projets PCA

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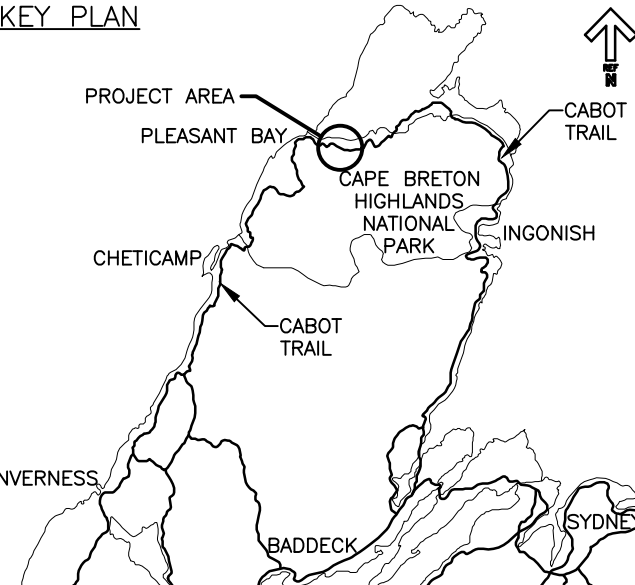
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Parks
Canada

Parcs
Canada

KEY PLAN




LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
- EDGE OF GRAVEL
- EDGE OF TREES
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LEGEND NEW

- EDGE OF PAVE
- ROADWAY
- EDGE OF PAVE
- SHOULDER
- GUARD RAIL
- DITCH LINE
- DAYLIGHT (TOP/TOE)
- EDGE OF GRAVEL
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**CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK**

project

drawing

**PLAN AND PROFILE
STA. 38+170 TO
STA. 38+490**

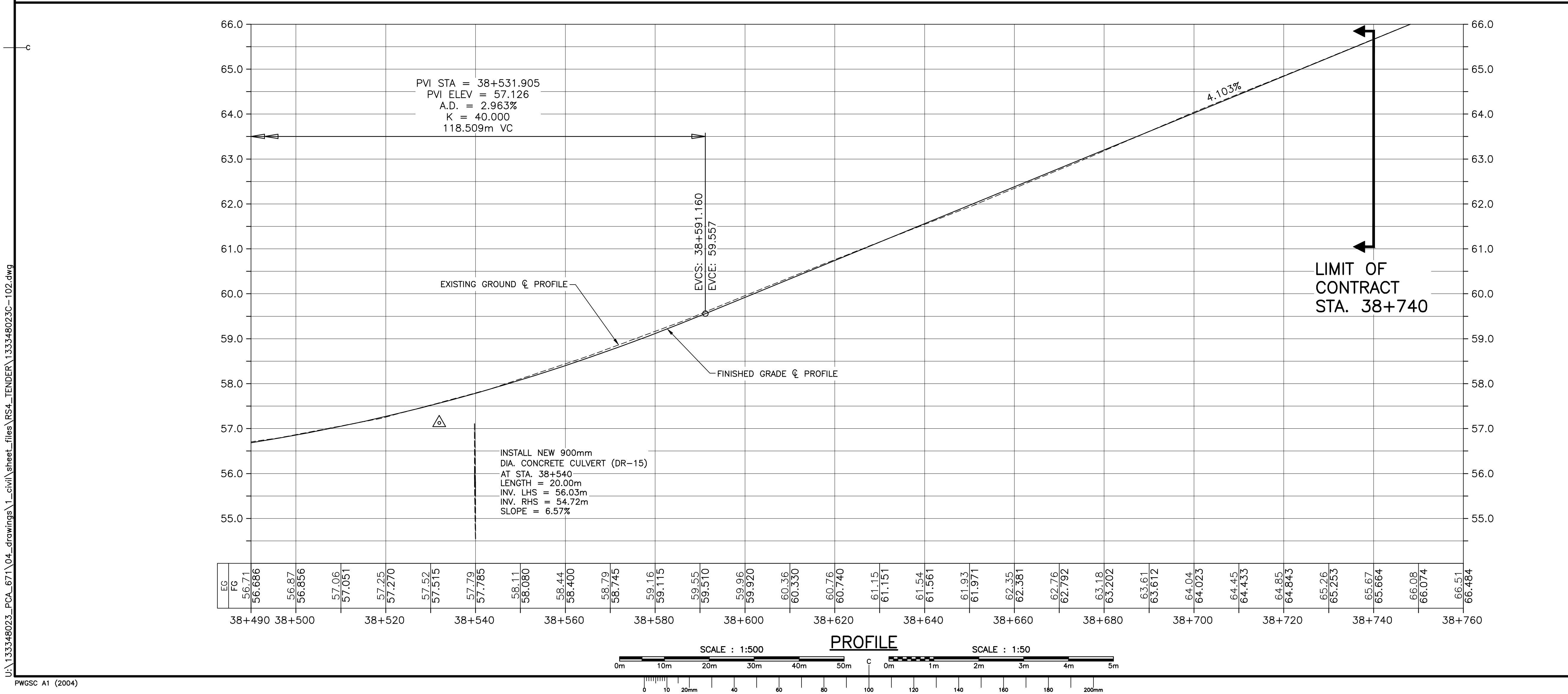
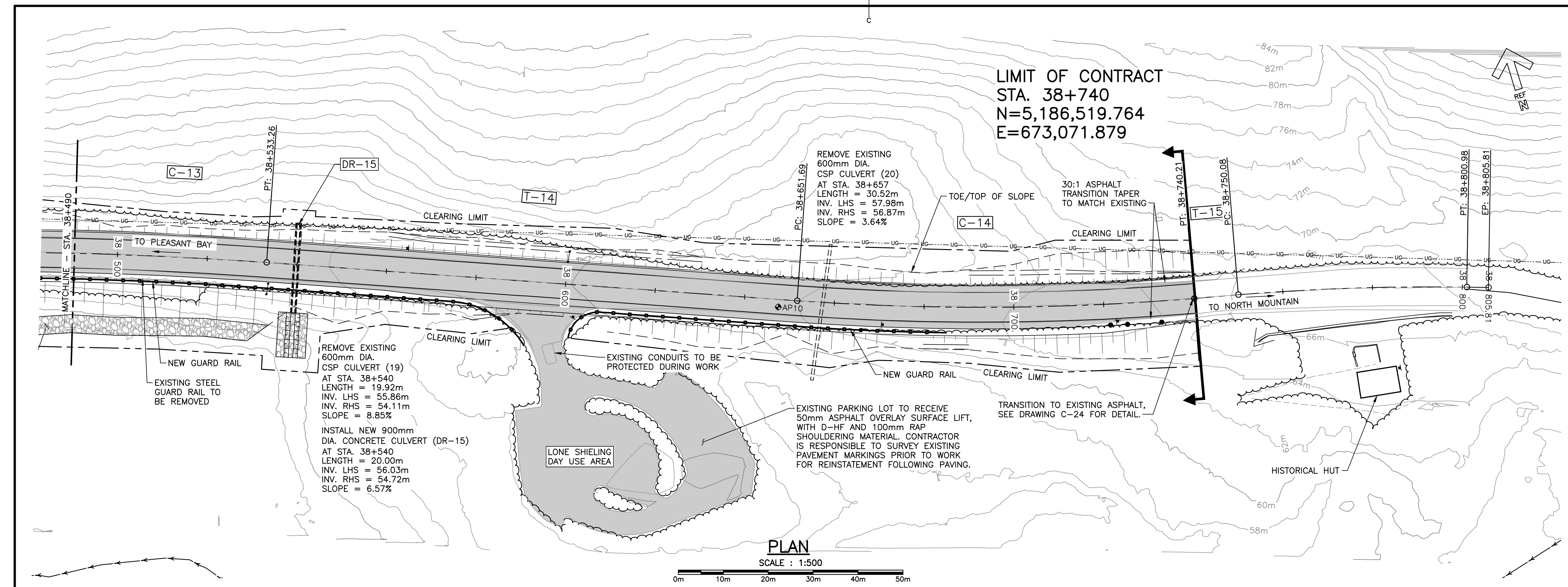
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approved	RMB	approuvé
date	FEB. 15, 2019	
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project number		no. du projet
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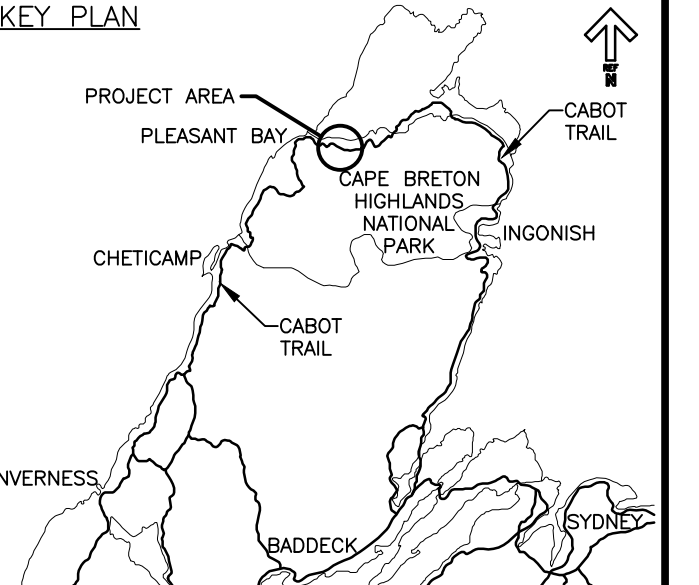





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KEY PLAN






LEGEND EXISTING

- 8m CONTOUR & ELEVATION
- ROADWAY
- EDGE OF PAVE
- GUARD RAIL
- ASPHALT GUTTER
- DAYLIGHT
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LEGEND NEW

- EDGE OF PAVE
- ROADWAY
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- SHOULDER
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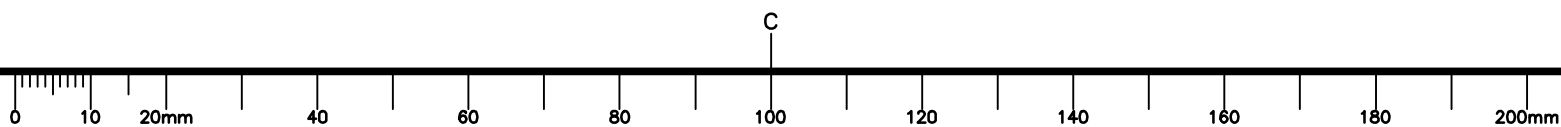


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CABOT TRAIL REHABILITATION PLEASANT BAY TO NORTH MOUNTAIN CAPE BRETON HIGHLANDS NATIONAL PARK		
drawing		dessin
PLAN AND PROFILE STA. 38+490 TO STA. 38+740		
designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet
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KM_33.17_TO_38.74 ALIGNMENT GEOMETRY								
ID	SEGMENT TYPE	LENGTH (m)	RADIUS (m)	TANGENT OR CHORD AZIMUTH	BEGIN STATION	PI OR A	END STATION	DELTA Δ
T-1	TANGENT	84.749		157° 46' 02.63"	STA: 33+170.000 E: 668,113.668 N: 5,187,492.592		STA: 33+254.749 E: 668,145.735 N: 5,187,414.144	
C-1	CURVE	253.097	313.000	134° 36' 08.13"	STA: 33+254.749 E: 668,145.735 N: 5,187,414.144	E: 668,196.408 N: 5,187,290.174	STA: 33+507.846 E: 668,321.070 N: 5,187,241.227	46° 19' 49.0"
T-2	TANGENT	206.546		111° 26' 13.63"	STA: 33+507.846 E: 668,321.070 N: 5,187,241.227		STA: 33+714.392 E: 668,513.326 N: 5,187,165.738	
C-2	CURVE	190.872	290.000	130° 17' 33.09"	STA: 33+714.392 E: 668,513.326 N: 5,187,165.738	E: 668,605.512 N: 5,187,129.542	STA: 33+905.263 E: 668,656.301 N: 5,187,044.519	37° 42' 38.9"
T-3	TANGENT	76.529		149° 08' 52.54"	STA: 33+905.263 E: 668,656.301 N: 5,187,044.519		STA: 33+981.792 E: 668,695.547 N: 5,186,978.820	
C-3	CURVE	158.178	300.000	134° 02' 34.95"	STA: 33+981.792 E: 668,695.547 N: 5,186,978.820	E: 668,737.072 N: 5,186,909.304	STA: 34+139.970 E: 668,807.935 N: 5,186,870.124	30° 12' 35.2"

SUPERELEVATION DEVELOPMENT				
CURVE 1	RADIUS = 313.0			E _{max} = 0.057
STATION	LEFT LANE	CL ELEV.	RIGHT LANE	DESCRIPTION
33+195.489	-0.020	24.643	-0.020	NORMAL CROWN
33+223.489	-0.020	24.631	0.000	LEVEL CROWN
33+241.770	-0.020	24.432	0.020	REVERSE CROWN
33+275.589	-0.057	23.662	0.057	BEGIN FULL SUPER
33+487.006	-0.057	12.126	0.057	END FULL SUPER
33+520.825	-0.020	11.148	0.020	REVERSE CROWN
33+539.106	-0.020	10.819	0.000	LEVEL CROWN
33+567.106	-0.020	10.583	-0.020	NORMAL CROWN

SUPERELEVATION DEVELOPMENT				
CURVE 2	RADIUS = 290.0			E _{max} = 0.058
STATION	LEFT LANE	CL ELEV.	RIGHT LANE	DESCRIPTION
33+648.892	-0.020	11.226	-0.020	NORMAL CROWN
33+676.892	0.000	11.513	-0.020	LEVEL CROWN
33+698.443	0.020	11.735	-0.020	REVERSE CROWN
33+739.392	0.058	12.156	-0.058	BEGIN FULL SUPER
33+880.263	0.058	13.603	-0.058	END FULL SUPER
33+934.000	0.000	14.155	0.015	LEVEL CROWN
33+943.500	-0.008	14.253	-0.008	FLAT CROWN

SUPERELEVATION DEVELOPMENT				
CURVE 3	RADIUS = 300.0			E _{max} = 0.057
STATION	LEFT LANE	CL ELEV.	RIGHT LANE	DESCRIPTION
33+943.500	-0.008	14.253	-0.008	FLAT CROWN
33+953.000	-0.015	14.351	0.000	LEVEL CROWN
34+006.000	-0.057	14.895	0.057	BEGIN FULL SUPER
34+119.130	-0.057	16.058	0.057	END FULL SUPER
34+152.950	-0.020	16.300	0.020	REVERSE CROWN
34+171.230	-0.020	16.216	0.000	LEVEL CROWN
34+199.230	-0.020	15.764	-0.020	NORMAL CROWN

KM_33.17_TO_38.74 ALIGNMENT GEOMETRY								
ID	SEGMENT TYPE	LENGTH (m)	RADIUS (m)	TANGENT OR CHORD AZIMUTH	BEGIN STATION	PI OR A	END STATION	DELTA Δ
T-4	TANGENT	175.256		118° 56' 17.36"	STA: 34+139.970 E: 668,807.935 N: 5,186,870.124		STA: 34+315.226 E: 668,961.309 N: 5,186,785.324	
C-4	CURVE	148.547	190.000	96° 32' 25.73"	STA: 34+315.226 E: 668,961.309 N: 5,186,785.324	E: 669,029.836 N: 5,186,747.435	STA: 34+463.773 E: 669,105.159 N: 5,186,768.831	44° 47' 43.3"
T-5	TANGENT	447.503		74° 08' 34.11"	STA: 34+463.773 E: 669,105.159 N: 5,186,768.831		STA: 34+911.276 E: 669,535.632 N: 5,186,891.107	
C-5	CURVE	161.618	300.000	89° 34' 34.14"	STA: 34+911.276 E: 669,535.632 N: 5,186,891.107	E: 669,615.302 N: 5,186,913.737	STA: 35+072.893 E: 669,695.298 N: 5,186,892.288	30° 52' 00.1"
T-6	TANGENT	449.886		105° 00' 34.17"	STA: 35+072.893 E: 669,695.298 N: 5,186,892.288		STA: 35+522.779 E: 670,129.836 N: 5,186,775.777	
C-6	CURVE	172.240	250.000	85° 16' 20.18"	STA: 35+522.779 E: 670,129.836 N: 5,186,775.777	E: 670,216.472 N: 5,186,752.548	STA: 35+695.019 E: 670,298.115 N: 5,186,789.694	39° 28' 28.0"

SUPERELEVATION DEVELOPMENT				
CURVE 4	RADIUS = 190.0			E _{max} = 0.060
STATION	LEFT LANE	CL ELEV.	RIGHT LANE	DESCRIPTION
34+249.726	-0.020	13.959	-0.020	NORMAL CROWN
34+277.726	-0.020	12.622	0.000	LEVEL CROWN
34+298.560	-0.020	11.714	0.020	REVERSE CROWN
34+340.226	-0.060	10.687	0.060	BEGIN FULL SUPER
34+438.773	-0.060	10.265	0.060	END FULL SUPER
34+480.440	-0.020	10.815	0.020	REVERSE CROWN
34+501.273	-0.020	11.206	0.000	LEVEL CROWN
34+529.273	-0.020	11.732	-0.020	NORMAL CROWN

SUPERELEVATION DEVELOPMENT				
CURVE 5	RADIUS = 300.0			E _{max} = 0.057
STATION	LEFT LANE	CL ELEV.	RIGHT LANE	DESCRIPTION
34+852.016	-0.020	15.205	-0.020	NORMAL CROWN
34+880.016	0.000	15.444	-0.020	LEVEL CROWN
34+898.297	0.020	15.598	-0.020	REVERSE CROWN
34+932.116	0.057	15.810	-0.057	BEGIN FULL SUPER
35+047.900	0.057	15.700	-0.057	END FULL SUPER
35+081.720	0.020	15.591	-0.020	REVERSE CROWN
35+100.000	0.000	15.554	-0.020	LEVEL CROWN
35+128.000	-0.020	15.568	-0.020	NORMAL CROWN

SUPERELEVATION DEVELOPMENT				
CURVE 6	RADIUS = 250.0			E _{max} = 0.060
STATION	LEFT LANE	CL ELEV.	RIGHT LANE	DESCRIPTION
35+457.279	-0.020	21.937	-0.020	NORMAL CROWN
35+485.279	-0.020	22.832	0.000	LEVEL CROWN
35+506.113	-0.020	23.498	0.020	REVERSE CROWN
35+547.779	-0.060	24.741	0.060	BEGIN FULL SUPER
35+668.019	-0.060	25.657	0.060	END FULL SUPER
35+723.347	-0.017	25.258	0.000	LEVEL CROWN
35+734.475	-0.009	25.229	-0.009	FLAT CROWN

Parks Canada

Parcs Canada

KEY PLAN

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02/15 2019

revisions

date

project

CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

projet

drawing

ALIGNMENT GEOMETRY
AND SUPERELEVATION
DEVELOPMENT TABLES

dessin

designed DSC

conçu

date MAY. 31, 2018

drawn JLD/CCP

dessiné

date MAY. 31, 2018

approved RMB

approuvé

date FEB. 15, 2019

Tender PCA Project Manager

Soumission Administrateur de projets PCA

project number

no. du projet

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drawing no.

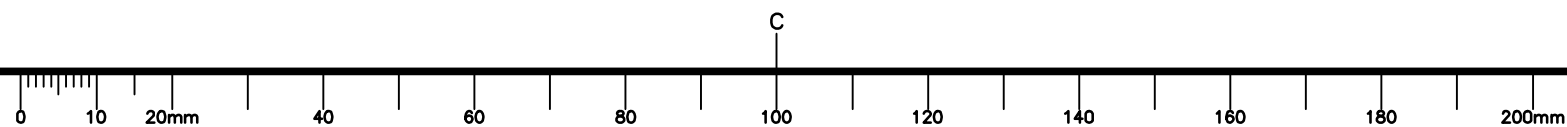
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PWGSC A1 (2004)



KM_33.17_TO_38.74 ALIGNMENT GEOMETRY								
ID	SEGMENT TYPE	LENGTH (m)	RADIUS (m)	TANGENT OR CHORD AZIMUTH	BEGIN STATION Easting Northing	PI OR A	END STATION Easting Northing	DELTA Δ
T-7	TANGENT	64.011		65° 32' 06.18"	STA: 35+695.019 E: 670,298.115 N: 5,186,789.694		STA: 35+759.030 E: 670,356.378 N: 5,186,816.203	
C-7	CURVE	98.513	480.000	71° 24' 52.71"	STA: 35+759.030 E: 670,356.378 N: 5,186,816.203	E: 670,401.370 N: 5,186,836.674	STA: 35+857.543 E: 670,449.590 N: 5,186,847.546	11° 45' 33.0"
T-8	TANGENT	156.054		77° 17' 39.23"	STA: 35+857.543 E: 670,449.590 N: 5,186,847.546		STA: 36+013.597 E: 670,601.823 N: 5,186,881.869	
C-8	CURVE	187.613	220.000	101° 43' 29.12"	STA: 36+013.597 E: 670,601.823 N: 5,186,881.869	E: 670,699.313 N: 5,186,903.850	STA: 36+201.210 E: 670,780.005 N: 5,186,844.889	48° 51' 39.8"
T-9	TANGENT	74.403		126° 09' 19.02"	STA: 36+201.210 E: 670,780.005 N: 5,186,844.889		STA: 36+275.614 E: 670,840.080 N: 5,186,800.993	
C-9	CURVE	288.927	220.000	88° 31' 54.86"	STA: 36+275.614 E: 670,840.080 N: 5,186,800.993	E: 670,976.991 N: 5,186,700.953	STA: 36+564.541 E: 671,108.598 N: 5,186,807.875	75° 14' 48.3"

SUPERELEVATION DEVELOPMENT				
CURVE 7	RADIUS = 480.0			E _{max} = 0.047
STATION	LEFT LANE	CL ELEV.	RIGHT LANE	DESCRIPTION
35+734.475	-0.009	25.229	-0.009	FLAT CROWN
35+745.347	0.000	25.249	-0.017	LEVEL CROWN
35+785.347	0.047	25.800	-0.047	BEGIN FULL SUPER
35+839.303	0.047	28.518	-0.047	END FULL SUPER
35+865.469	0.020	30.378	-0.020	REVERSE CROWN
35+884.903	0.000	32.028	-0.020	LEVEL CROWN
35+912.903	-0.020	34.580	-0.020	NORMAL CROWN

SUPERELEVATION DEVELOPMENT				
CURVE 8	RADIUS = 220.0			E _{max} = 0.060
STATION	LEFT LANE	CL ELEV.	RIGHT LANE	DESCRIPTION
35+948.097	-0.020	37.599	-0.020	NORMAL CROWN
35+976.097	0.000	39.516	-0.020	LEVEL CROWN
35+996.931	0.020	40.652	-0.020	REVERSE CROWN
36+038.597	0.060	42.179	-0.060	BEGIN FULL SUPER
36+176.210	0.060	42.232	-0.060	END FULL SUPER
36+238.412	0.000	40.392	0.000	FLAT CROWN


SUPERELEVATION DEVELOPMENT				
CURVE 9	RADIUS = 220.0			E _{max} = 0.060
STATION	LEFT LANE	CL ELEV.	RIGHT LANE	DESCRIPTION
36+238.412	0.000	40.392	0.000	FLAT CROWN
36+300.614	-0.060	38.498	0.060	BEGIN FULL SUPER
36+539.514	-0.060	32.691	0.060	END FULL SUPER
36+581.207	-0.020	32.503	0.020	REVERSE CROWN
36+602.041	-0.020	32.408	0.000	LEVEL CROWN
36+630.041	-0.020	32.282	-0.020	NORMAL CROWN

KM_33.17_TO_38.74 ALIGNMENT GEOMETRY								
ID	SEGMENT TYPE	LENGTH (m)	RADIUS (m)	TANGENT OR CHORD AZIMUTH	BEGIN STATION Easting Northing	PI OR A	END STATION Easting Northing	DELTA Δ
T-10	TANGENT	363.869		50° 54' 30.69"	STA: 36+564.541 E: 671,108.598 N: 5,186,807.875		STA: 36+928.409 E: 671,391.011 N: 5,187,037.316	
C-10	CURVE	263.129	219.000	85° 19' 44.37"	STA: 36+928.409 E: 671,391.011 N: 5,187,037.316	E: 671,507.484 N: 5,187,131.942	STA: 37+191.538 E: 671,637.773 N: 5,187,057.478	68° 50' 27.3"
T-11	TANGENT	559.744		119° 44' 58.04"	STA: 37+191.538 E: 671,637.773 N: 5,187,057.478		STA: 37+751.281 E: 672,123.745 N: 5,187,779.728	
C-11	CURVE	250.827	580.000	107° 21' 37.29"	STA: 37+751.281 E: 672,123.745 N: 5,186,779.728	E: 672,234.359 N: 5,186,716.508	STA: 38+002.109 E: 672,361.285 N: 5,186,705.468	24° 46' 41.5"
T-12	TANGENT	119.373		94° 58' 16.54"	STA: 38+002.109 E: 672,361.285 N: 5,186,705.468		STA: 38+121.482 E: 672,480.209 N: 5,186,695.124	
C-12	CURVE	125.028	615.000	100° 47' 43.11"	STA: 38+121.482 E: 672,480.209 N: 5,186,695.124	E: 672,542.703 N: 5,186,689.688	STA: 38+246.510 E: 672,602.813 N: 5,186,671.746	11° 38' 53.1"

SUPERELEVATION DEVELOPMENT				
CURVE 10	RADIUS = 219.0			E _{max} = 0.060
STATION	LEFT LANE	CL ELEV.	RIGHT LANE	DESCRIPTION
36+862.909	-0.020	31.377	-0.020	NORMAL CROWN
36+890.909	0.000	31.526	-0.020	LEVEL CROWN
36+911.742	0.020	31.690	-0.020	REVERSE CROWN
36+953.409	0.060	32.017	-0.060	BEGIN FULL SUPER
37+166.538	0.060	33.692	-0.060	END FULL SUPER
37+208.204	0.020	34.020	-0.020	REVERSE CROWN
37+229.038	0.000	34.184	-0.020	LEVEL CROWN
37+257.038	-0.020	34.404	-0.020	NORMAL CROWN

SUPERELEVATION DEVELOPMENT				
CURVE 11	RADIUS = 580.0			E _{max} = 0.044
STATION	LEFT LANE	CL ELEV.	RIGHT LANE	DESCRIPTION
37+696.281	-0.020	37.856	-0.020	NORMAL CROWN
37+724.281	-0.020	38.076	0.000	LEVEL CROWN
37+744.736	-0.020	38.241	0.020	REVERSE CROWN
37+769.281	-0.044	38.479	0.044	BEGIN FULL SUPER
37+984.109	-0.044	41.752	0.044	END FULL SUPER
38+008.654	-0.020	42.147	0.020	REVERSE CROWN
38+029.109	-0.020	42.476	0.000	LEVEL CROWN
38+057.109	-0.020	42.927	-0.020	NORMAL CROWN

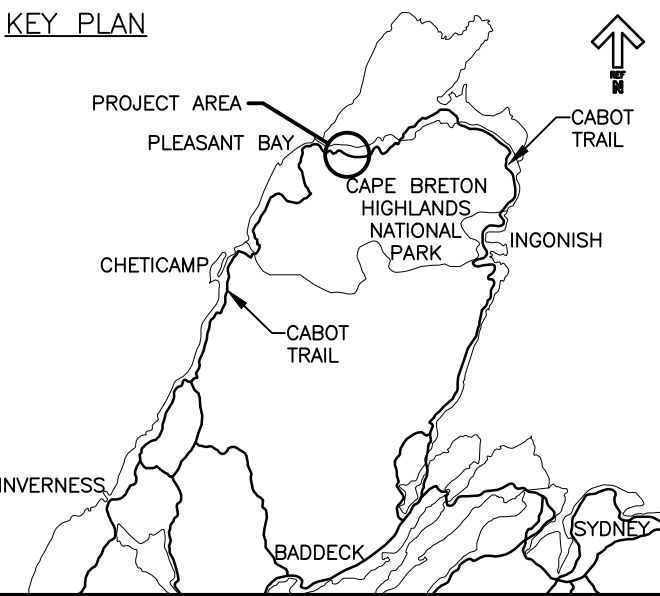
SUPERELEVATION DEVELOPMENT				
CURVE 12	RADIUS = 615.0			E _{max} = 0.042
STATION	LEFT LANE	CL ELEV.	RIGHT LANE	DESCRIPTION
38+065.067	-0.020	43.055	-0.020	NORMAL CROWN
38+093.067	0.000	43.506	-0.020	LEVEL CROWN
38+117.353	0.020	43.897	-0.020	REVERSE CROWN
38+144.067	0.042	44.328	-0.042	BEGIN FULL SUPER
38+228.919	0.042	47.256	-0.042	END FULL SUPER
38+255.633	0.020	48.915	-0.020	REVERSE CROWN
38+279.919	0.000	50.491	-0.020	LEVEL CROWN
38+307.919	-0.020	52.194	-0.020	NORMAL CROWN



Parks
Canada

Parcs
Canada

KEY PLAN





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CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

projet

drawing

dessin

ALIGNMENT GEOMETRY
AND SUPERELEVATION
DEVELOPMENT TABLES

designed DSC

conçu

date MAY. 31, 2018

drawn JLD/CCP

dessiné

date MAY. 31, 2018

approved RMB

approuvé

date FEB. 15, 2019

Tender
PCA Project Manager

Soumission
Administrateur de projets PCA

project number

no. du projet

1114

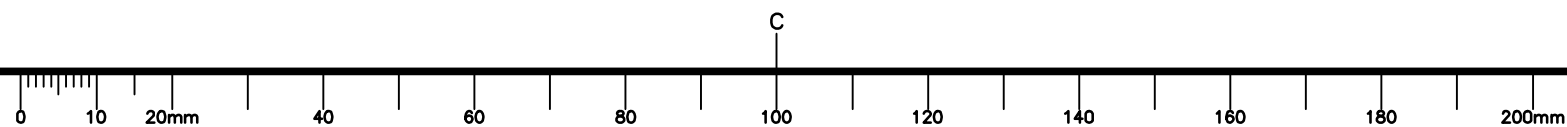
drawing no.

no. du dessin

C-21

E-DRM/GDD-E: NOT IN SYSTEM

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KM_33.17_TO_38.74 ALIGNMENT GEOMETRY								
ID	SEGMENT TYPE	LENGTH (m)	RADIUS (m)	TANGENT OR CHORD AZIMUTH	BEGIN STATION	PI OR A	END STATION	DELTA Δ
T-13	TANGENT	218.319		106° 37' 09.68"	STA: 38+246.510 E: 672,602.813 N: 5,186,671.746		STA: 38+464.830 E: 672,812.013 N: 5,186,609.304	
C-13	CURVE	68.433	900.000	108° 47' 51.51"	STA: 38+464.830 E: 672,812.013 N: 5,186,609.304	E: 672,844.815 N: 5,186,599.513	STA: 38+533.262 E: 672,876.780 N: 5,186,587.258	4° 21' 23.7"
T-14	TANGENT	118.427		110° 58' 33.35"	STA: 38+533.262 E: 672,876.780 N: 5,186,587.258		STA: 38+651.690 E: 672,987.359 N: 5,186,544.864	
C-14	CURVE	88.517	570.000	106° 31' 37.54"	STA: 38+651.690 E: 672,987.359 N: 5,186,544.864	E: 673,028.768 N: 5,186,528.989	STA: 38+740.207 E: 673,072.134 N: 5,186,519.709	8° 53' 51.6"
T-15	TANGENT	9.872		102° 04' 41.72"	STA: 38+740.207 E: 673,072.134 N: 5,186,519.709		STA: 38+750.079 E: 673,081.787 N: 5,186,517.644	
C-15	CURVE	50.906	508.000	104° 56' 56.40"	STA: 38+750.079 E: 673,081.787 N: 5,186,517.644	E: 673,106.698 N: 5,186,512.313	STA: 38+800.985 E: 673,130.950 N: 5,186,504.517	5° 44' 29.4"

SUPERELEVATION DEVELOPMENT				
CURVE 13	RADIUS = 900.0			E _{max} = 0.020
STATION	LEFT LANE	CL. ELEV.	RIGHT LANE	DESCRIPTION
38+419.839	-0.020	55.806	-0.020	NORMAL CROWN
38+447.389	0.000	56.167	-0.020	LEVEL CROWN
38+472.839	0.020	56.452	-0.020	BEGIN FULL SUPER
38+520.359	0.020	57.279	-0.020	END FULL SUPER
38+545.359	0.000	57.940	-0.020	LEVEL CROWN
38+573.359	-0.020	58.866	-0.020	NORMAL CROWN

SUPERELEVATION DEVELOPMENT				
CURVE 14	RADIUS = 570.0			E _{max} = 0.025
STATION	LEFT LANE	CL. ELEV.	RIGHT LANE	DESCRIPTION
38+606.463	-0.020	60.185	-0.020	NORMAL CROWN
38+634.463	-0.020	61.334	0.000	LEVEL CROWN
38+657.450	-0.020	62.277	0.020	REVERSE CROWN
38+663.263	-0.025	62.515	0.025	BEGIN FULL SUPER
38+728.741	-0.025	65.202	0.025	END FULL SUPER
38+745.197	0.000	65.877	0.000	FLAT CROWN
38+761.653	0.027	66.552	-0.027	BEGIN FULL SUPER

Parks Canada

Parcs Canada

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CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

projet

drawing

ALIGNMENT GEOMETRY
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DEVELOPMENT TABLES

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approuvé

date FEB. 15, 2019

Tender

PCA Project Manager

Soumission

FEB. 15, 2019

Administrateur de projets PCA

project number

no. du projet

1114

drawing no.

no. du dessin

C-22

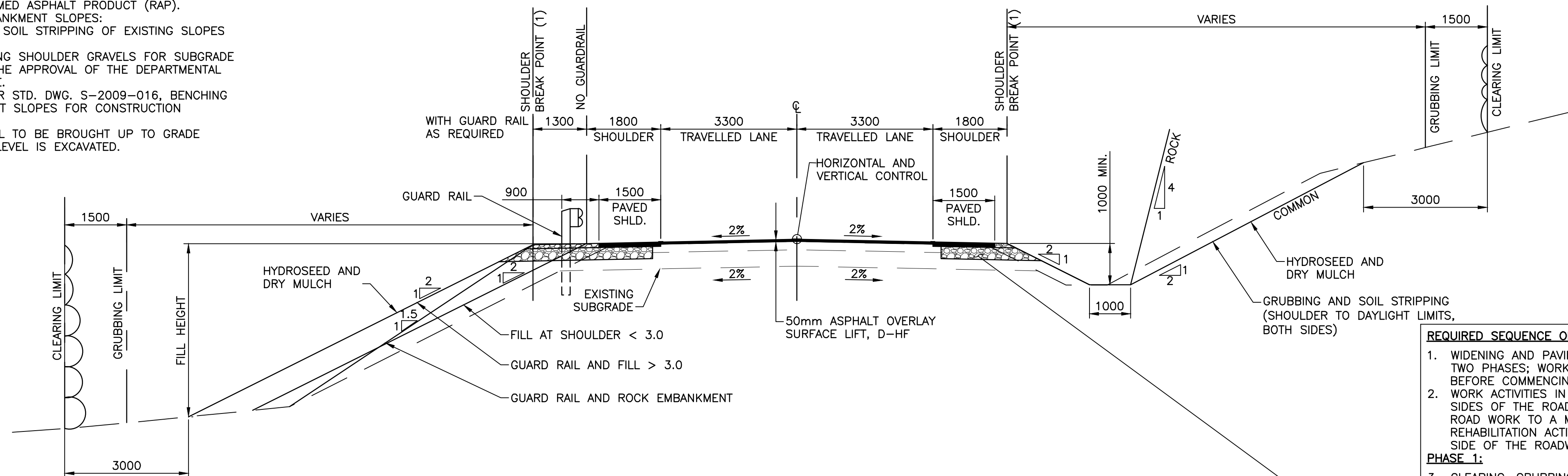
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PWGSC A1 (2004)

GENERAL NOTES:

- 0.4m ROUNDING CENTERED ON SHOULDER BREAK POINT IF GUARD RAIL NOT INSTALLED.
- 100mm OF RECLAIMED ASPHALT PRODUCT (RAP).
- BENCHING OF EMBANKMENT SLOPES:
 - GRUBBING AND SOIL STRIPPING OF EXISTING SLOPES REQUIRED.
 - RE-USE EXISTING SHOULDER GRAVELS FOR SUBGRADE WIDENING TO THE APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE.
 - REFER TO NSTIR STD. DWG. S-2009-016, BENCHING OF EMBANKMENT SLOPES FOR CONSTRUCTION REQUIREMENTS.
 - COMPACTED FILL TO BE BROUGHT UP TO GRADE BEFORE NEXT LEVEL IS EXCAVATED.



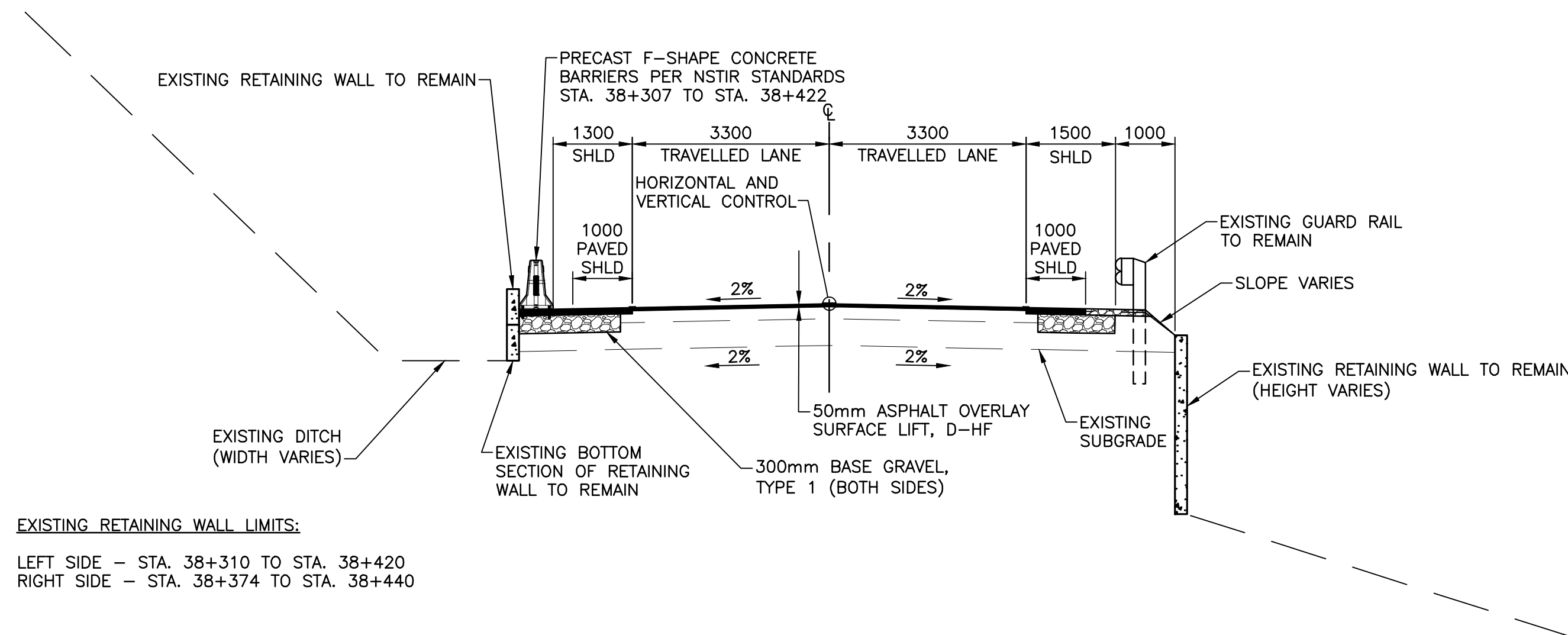
MODIFIED CABOT TRAIL – 1.5m PAVED SHOULDERS TYPICAL SECTION (STA. 33+170 TO STA. 38+740)

SCALE : 1:75

0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

GENERAL NOTES:

- 0.4m ROUNDING CENTERED ON SHOULDER BREAK POINT IF GUARD RAIL NOT INSTALLED.
- 100mm OF RECLAIMED ASPHALT PRODUCT (RAP).
- BENCHING OF EMBANKMENT SLOPES:
 - GRUBBING AND SOIL STRIPPING OF EXISTING SLOPES REQUIRED.
 - RE-USE EXISTING SHOULDER GRAVELS FOR SUBGRADE WIDENING TO THE APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE.
 - REFER TO NSTIR STD. DWG. S-2009-016, BENCHING OF EMBANKMENT SLOPES FOR CONSTRUCTION REQUIREMENTS.
 - COMPACTED FILL TO BE BROUGHT UP TO GRADE BEFORE NEXT LEVEL IS EXCAVATED.



EXISTING RETAINING WALL LIMITS:

LEFT SIDE – STA. 38+310 TO STA. 38+420
RIGHT SIDE – STA. 38+374 TO STA. 38+440

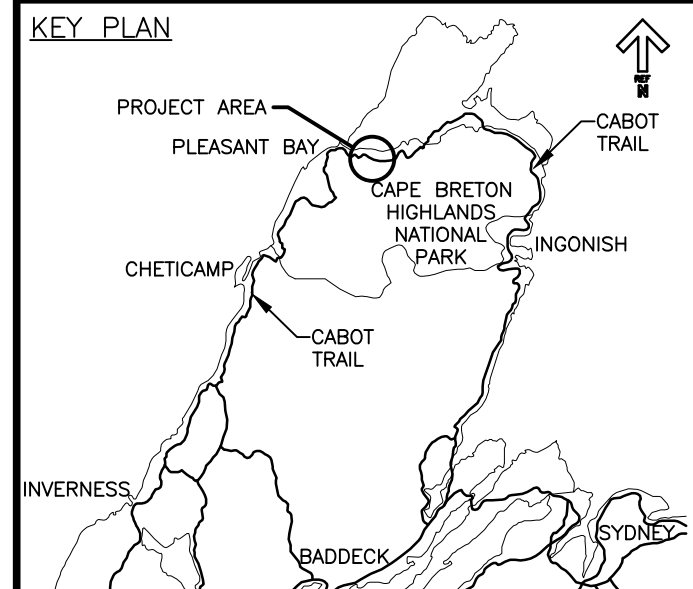
MODIFIED CABOT TRAIL – 1.0m PAVED SHOULDERS TYPICAL SECTION (STA. 38+307 TO STA. 38+422 LHS) AND (STA. 38+160 TO 38+445 RHS)

SCALE : 1:75

0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



Parks Canada



REQUIRED SEQUENCE OF PAVEMENT REHABILITATION

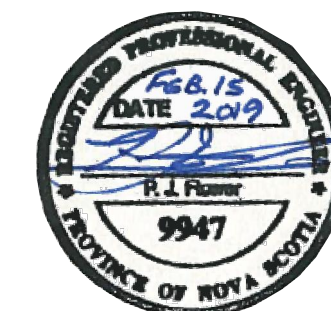
- WIDENING AND PAVING ACTIVITIES WILL BE COMPLETED IN TWO PHASES; WORK IN PHASE 1 SHALL BE COMPLETED BEFORE COMMENCING PHASE 2 ACTIVITIES.
- WORK ACTIVITIES IN BOTH PHASES ARE REQUIRED ON BOTH SIDES OF THE ROAD. THE CONTRACTOR SHALL RESTRICT ROAD WORK TO A MAXIMUM LENGTH OF 1.0km BEFORE REHABILITATION ACTIVITIES CAN PROCEED TO THE OPPOSITE SIDE OF THE ROADWAY.

PHASE 1:

- CLEARING, GRUBBING AND SOIL STRIPPING OF EXISTING SLOPES. NOTE THAT ALL CLEARING IS TO BE COMPLETED PRIOR TO MAY, 15.
- PLACE EMBANKMENT FILL TO LIMITS REQUIRED FOR SUBGRADE WIDENING.
- REMOVE THE EXISTING SHOULDER MATERIAL TO A DEPTH OF 350mm, TAKING CARE NOT TO UNDERMINE THE EDGE OF EXISTING ASPHALT.
- PLACE 300mm OF NEW GRAVEL TYPE 1 GRANULAR BASE MATERIAL ON SHOULDERS, PROVIDING TEMPORARY TAPER OF GRAVEL TYPE 1 TO PROTECT THE EDGE OF THE EXISTING ASPHALT.

PHASE 2:

- ASPHALT PAVING FOR SHOULDER WIDENING (AC PAVING FOR WIDENING) IN PHASE 2 TO COMMENCE WITHIN 3 DAYS OF COMPLETING PLACEMENT OF BASE GRAVELS (TYPE 1) IN PHASE 1.
- MILL ASPHALT KEY INTO EDGE OF EXISTING ASPHALT ON BOTH SIDES OF THE ROAD. KEY IS TO BE 200mm WIDE AND 50mm DEEP.
- PLACE 50mm ASPHALT SHOULDER BASE USING MIX TYPE D-HF.
- TACK COAT AND SURFACE THE ENTIRE ROADWAY WIDTH WITH 50mm OF MIX TYPE D-HF.
- PLACE 100mm THICK RECLAIMED ASPHALT PRODUCT (RAP) SHOULDER MATERIAL.



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CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing dessin

TYPICAL SECTIONS

designed DSC	conçu
date MAY. 31, 2018	
drawn JLD/CCP	dessiné
date MAY. 31, 2018	
approved RMB	approuvé
date FEB. 15, 2019	

Tender Soumission
PCA Project Manager Administrateur de projets PCA
project number no. du projet

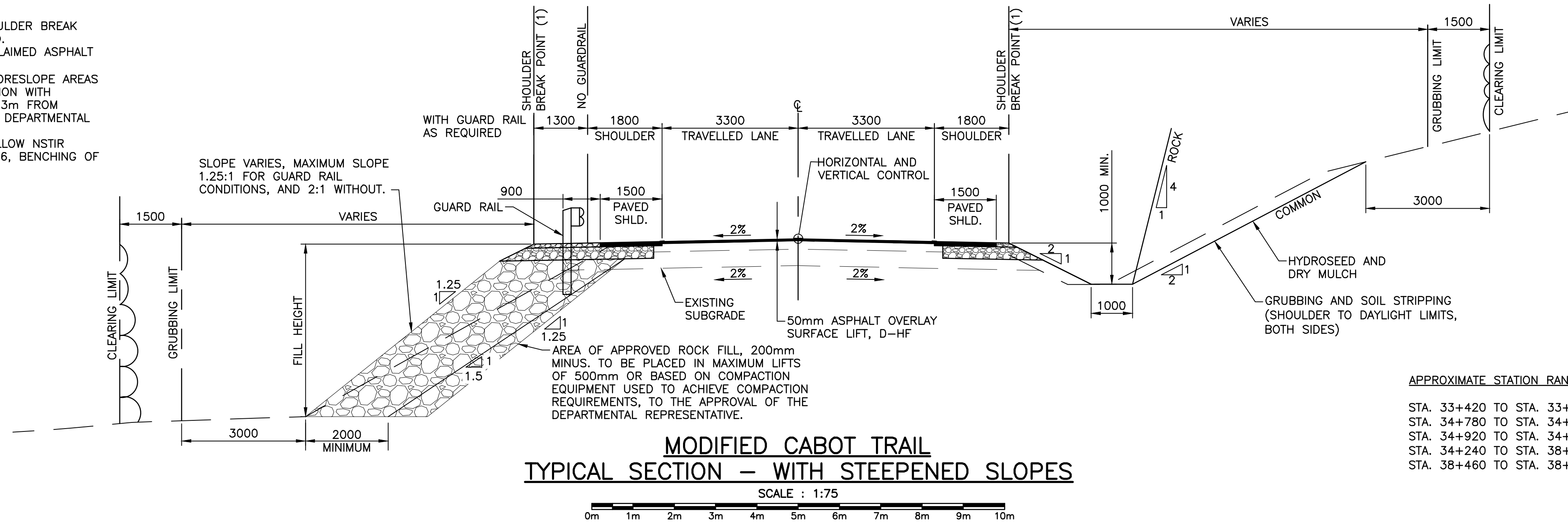
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drawing no. no. du dessin

C-23

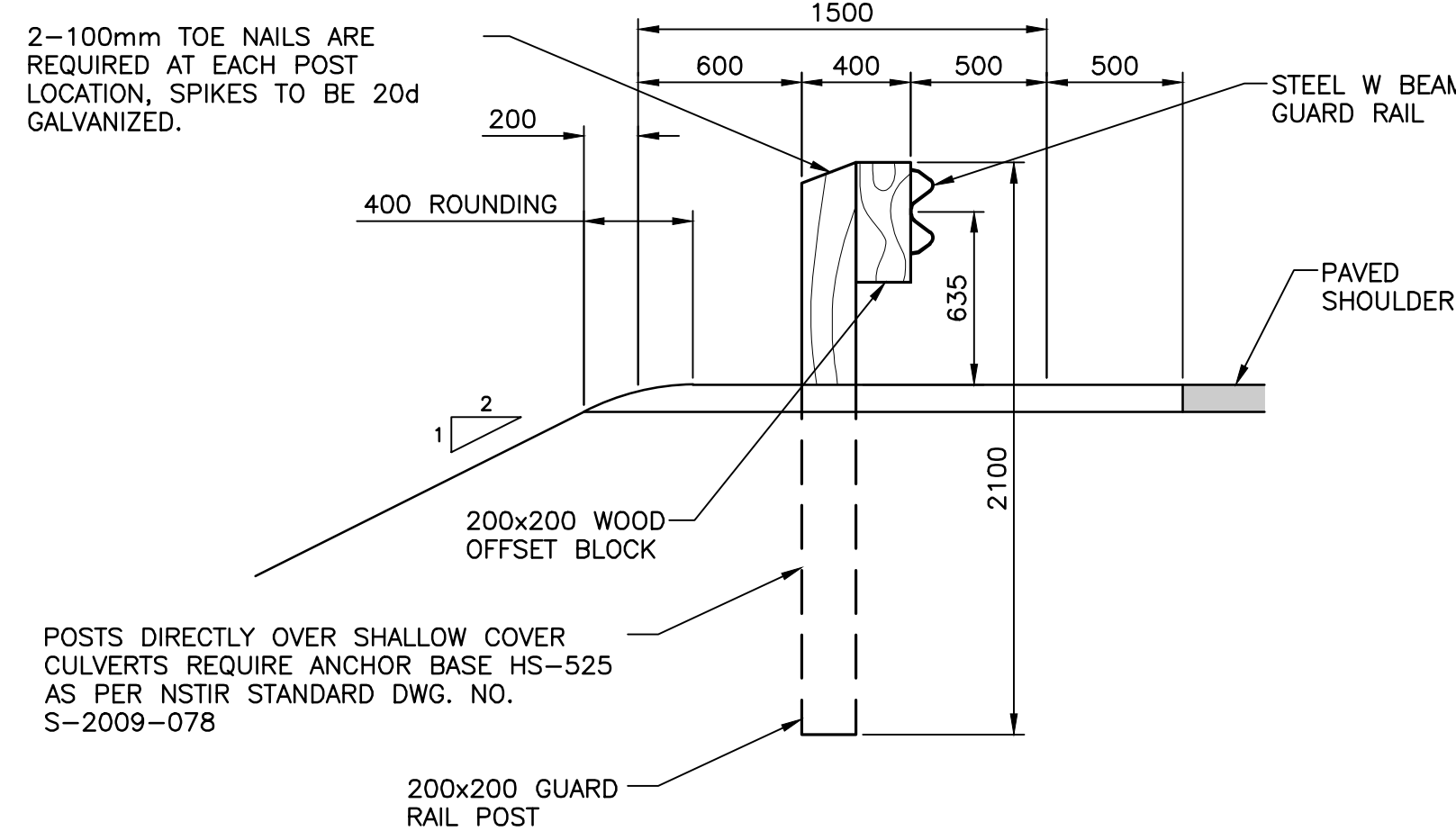
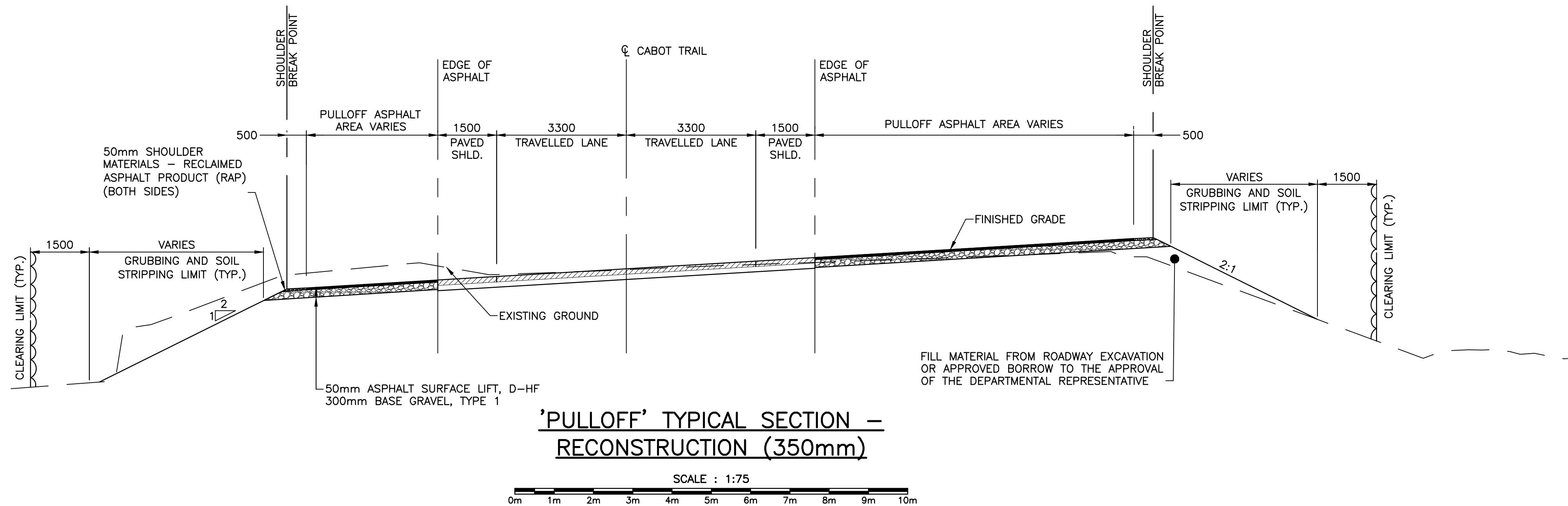
E-DRM/GDD-E: NOT IN SYSTEM

- NOTES:
- 0.4m ROUNDING CENTERED ON SHOULDER BREAK POINT IF GUARD RAIL NOT INSTALLED.
 - 100mm SHOULDER MATERIAL – RECLAIMED ASPHALT PRODUCT (RAP).
 - ROCK FILLS SHALL BE PLACED IN FORESLOPE AREAS WHERE NEW FORESLOPES INTERCEPTION WITH EXISTING GROUND LENGTH EXCEEDS 3m FROM SUBGRADE OR AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.
 - ANY BENCHING REQUIRED SHALL FOLLOW NSTIR STANDARD DRAWING NO. S-2009-016, BENCHING OF EMBANKMENT SLOPES.



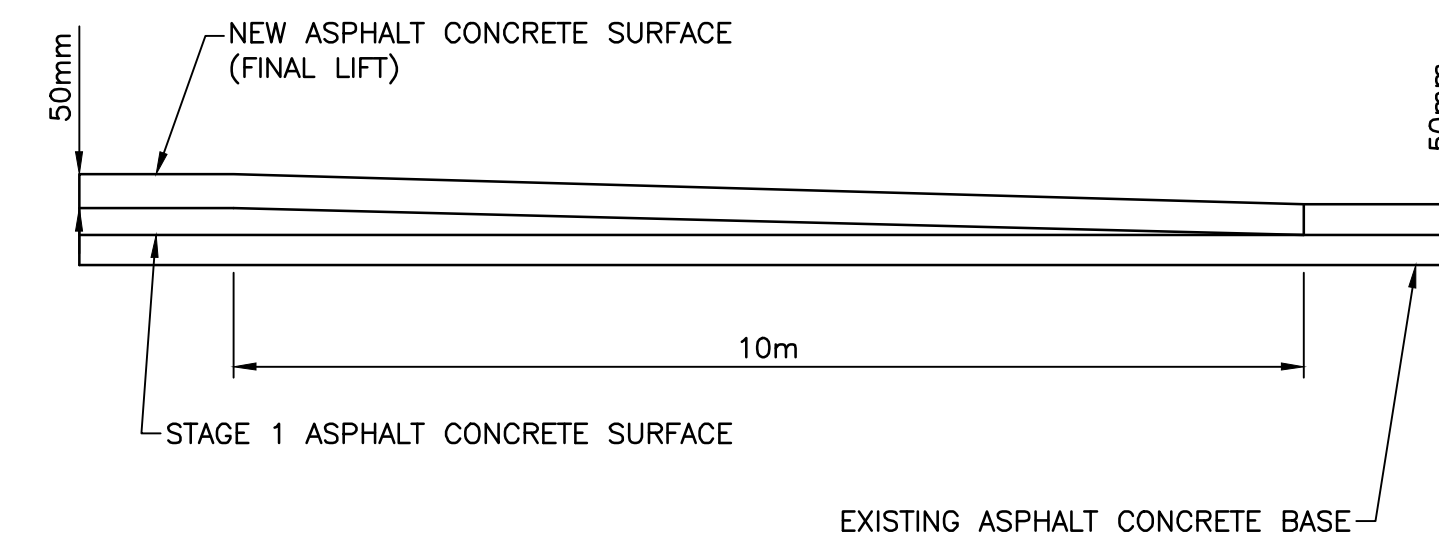
APPROXIMATE STATION RANGES WITH STEEPENED SLOPES

STA. 33+420 TO STA. 33+480 (LHS)
STA. 34+780 TO STA. 34+860 (RHS)
STA. 34+920 TO STA. 34+960 (LHS)
STA. 34+240 TO STA. 38+360 (RHS)
STA. 38+460 TO STA. 38+520 (RHS)



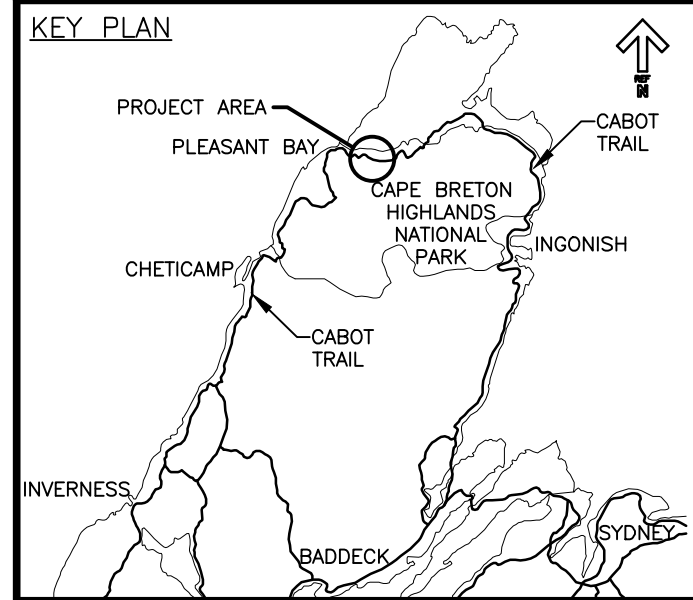
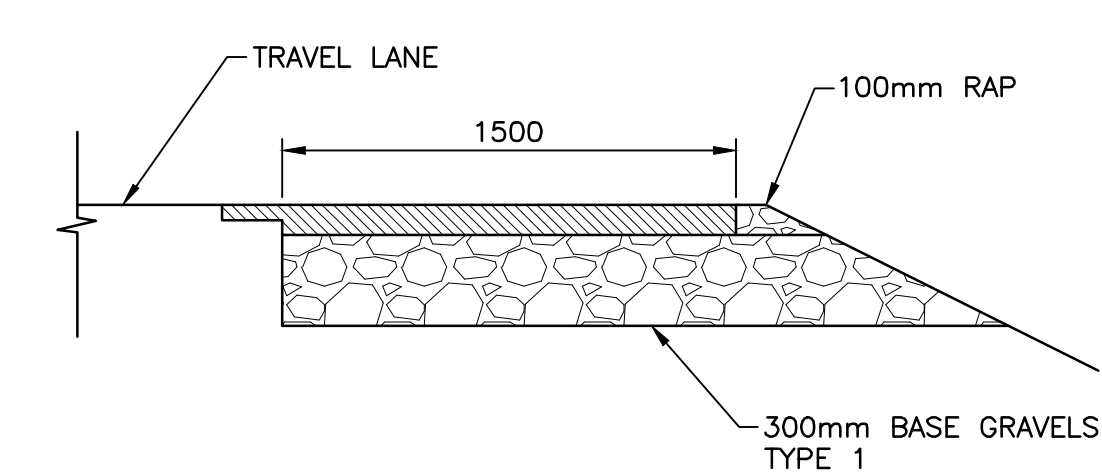
NOTES:

- USE ASPHALT KEY JOINT FOR ALL TRANSVERSE JOINTS WHERE NEW ASPHALT PAVEMENT MEETS EXISTING ASPHALT PAVEMENT. AS PER NSTIR STD. DWG. S-2009-013.



NOTES:

- USE ASPHALT KEY JOINT FOR ALL LONGITUDINAL JOINTS WHERE NEW ASPHALT PAVEMENT MEETS EXISTING ASPHALT PAVEMENT.



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CABOT TRAIL REHABILITATION
PLEASANT BAY TO
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CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing	dessin
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TYPICAL SECTIONS
AND DETAILS

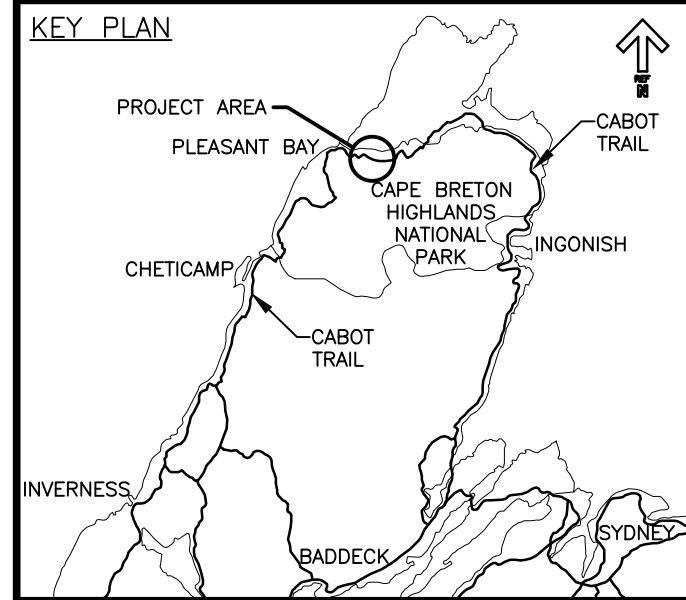
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drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	

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PCA Project Manager	Administrateur de projets PCA
project number	no. du projet

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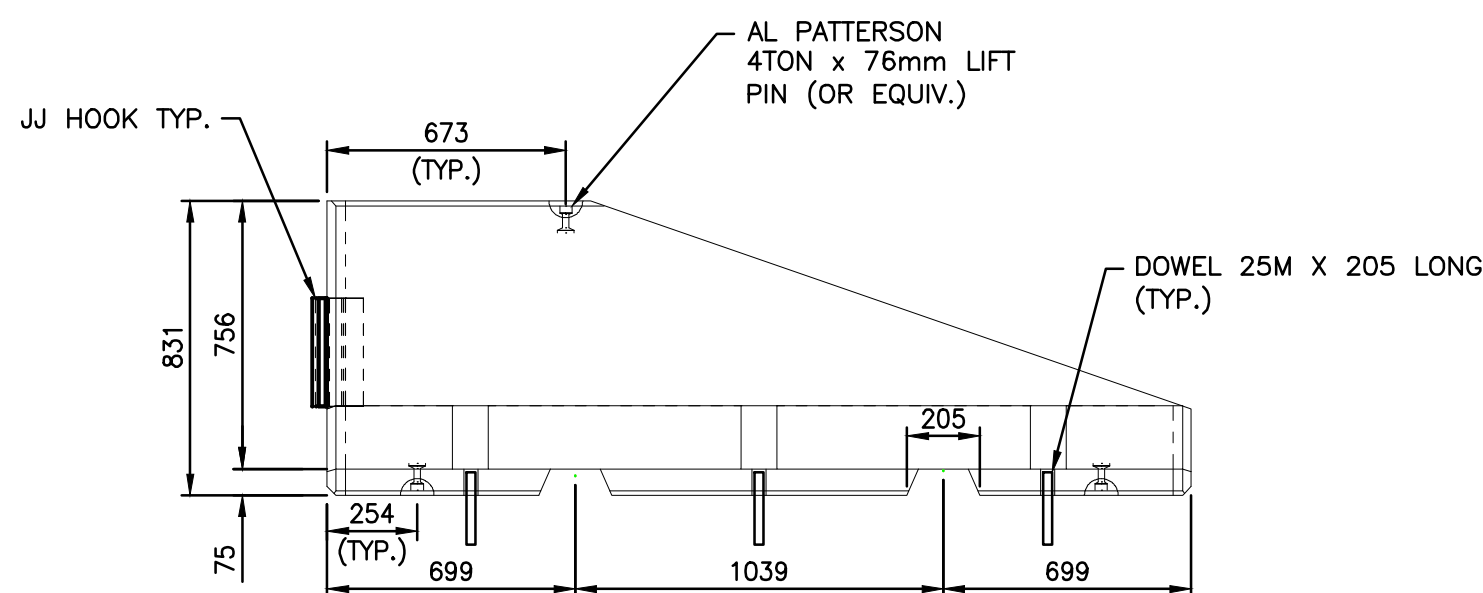
project project
**CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessin

DETAILS

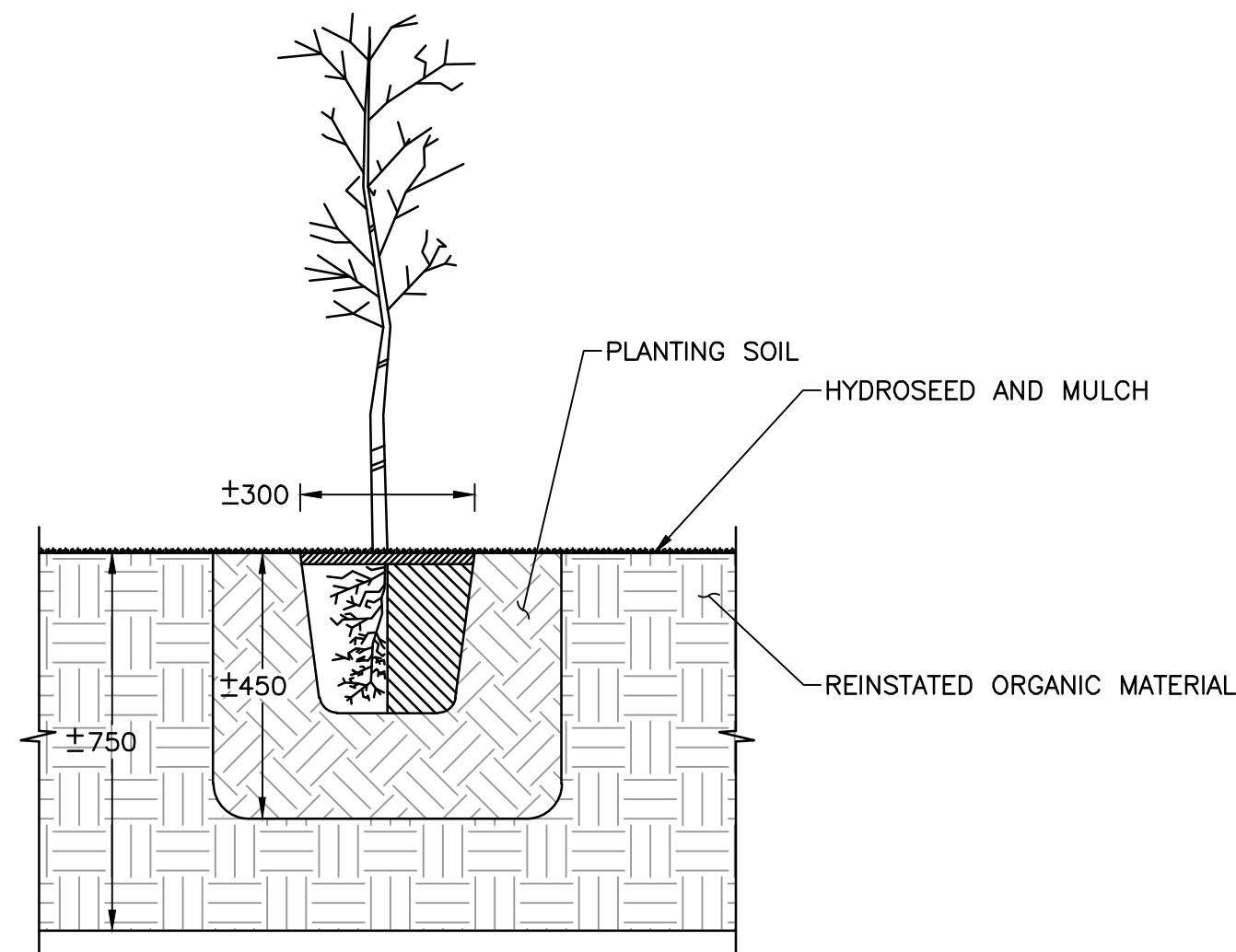
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date MAY.31, 2018	
drawn JLD/CCP	dessiné
date MAY.31, 2018	
approved RMB	approuvé
date FEB.15, 2019	
Tender PCA Project Manager	Soumission Administrateur de projets PCA
project number	no. du projet
1114	
drawing no.	no. du dessin
C-25	

PERMANENT STANDARD F SHAPE JERSEY BARRIER

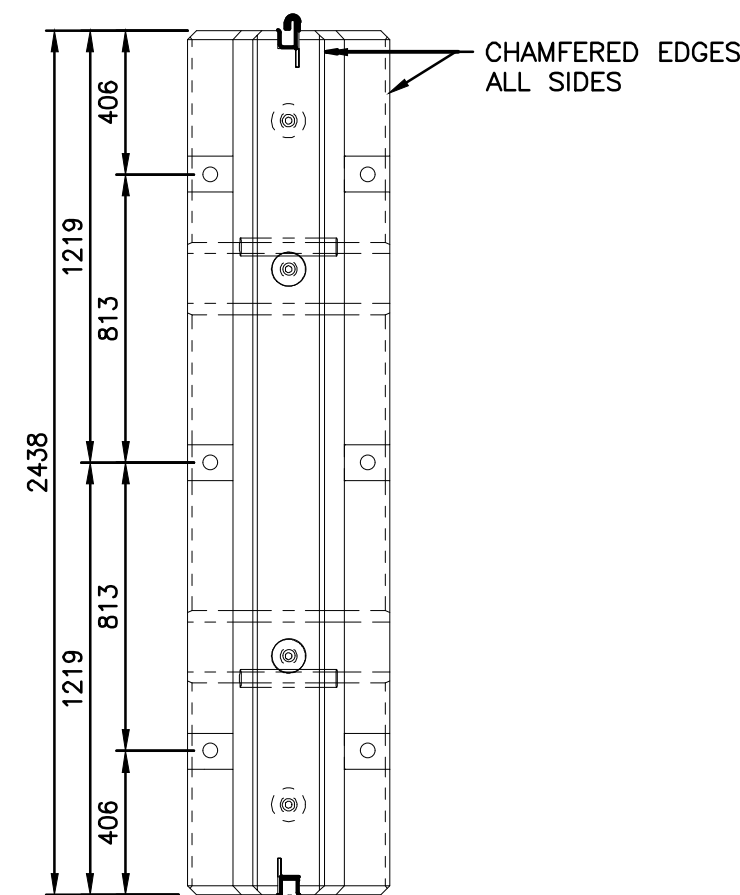


PERMANENT TAPERED F SHAPE JERSEY BARRIER

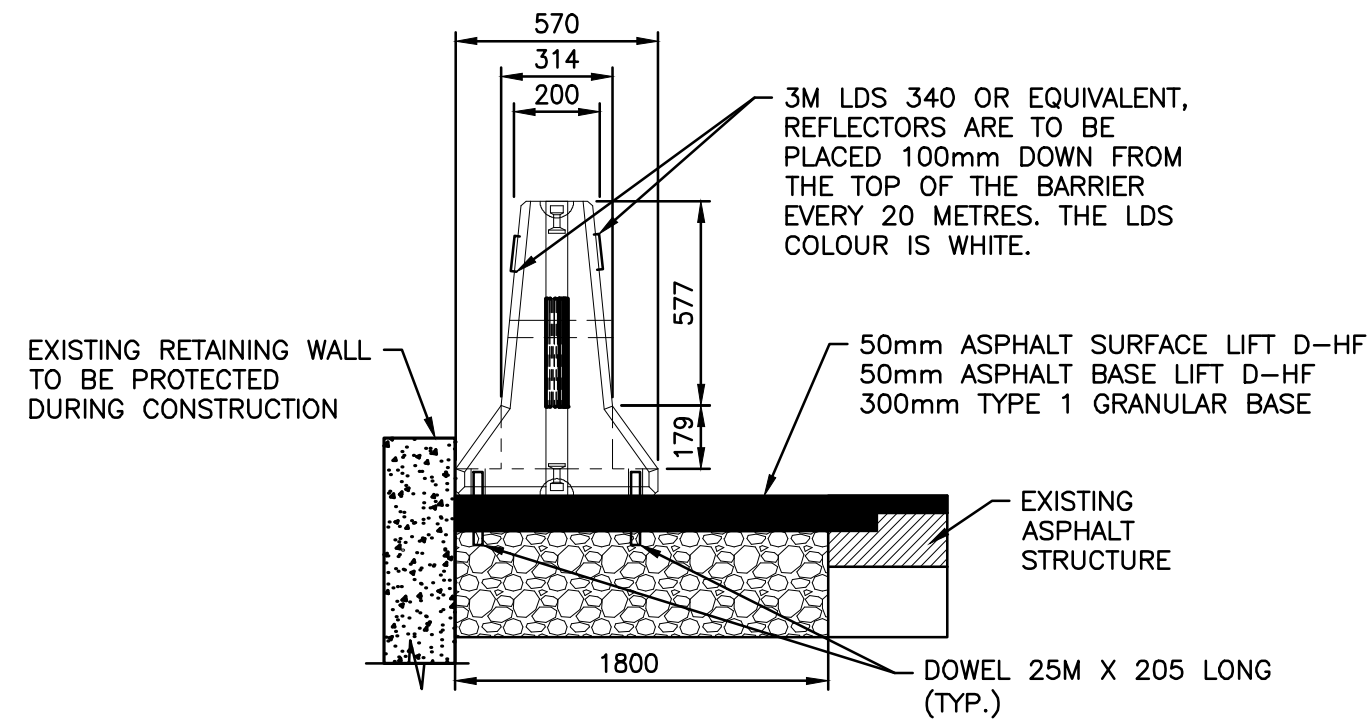
- REINSTATED TREE PLANTING**
1. PLACE MINIMUM OF 750mm THICK OF STOCKPILED ORGANIC GRUBBING MATERIAL.
 2. PLANT TREES IN PLANTING HOLES WITH NEW PLANTING SOIL.
 3. PLANT TREES RANDOMLY FOLLOWING ROUGH SPACING INDICATED IN TABLE.
 4. HYDROSEED AND MULCH ALL EXPOSED SURFACES.
- SHRUB PLANTING**
1. PLACE MINIMUM OF 300mm THICK OF STOCKPILED ORGANIC STRIPPING MATERIAL.
 2. PLANT SHRUBS IN PLANTING HOLES WITH NEW PLANTING SOIL.
 3. PLANT SHRUBS IN GROUPS OF 5 - 9 FOLLOWING ROUGH SPACING AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.
 4. HYDROSEED AND MULCH ALL EXPOSED SURFACES.
- HYDROSEEDING ONLY**
1. PLACE MINIMUM OF 150mm THICK OF STOCKPILED ORGANIC GRUBBING MATERIAL.
 2. HYDROSEED AND MULCH ALL EXPOSED SURFACES.



TREE PLANTING DETAIL
SCALE : NTS



TOP VIEW



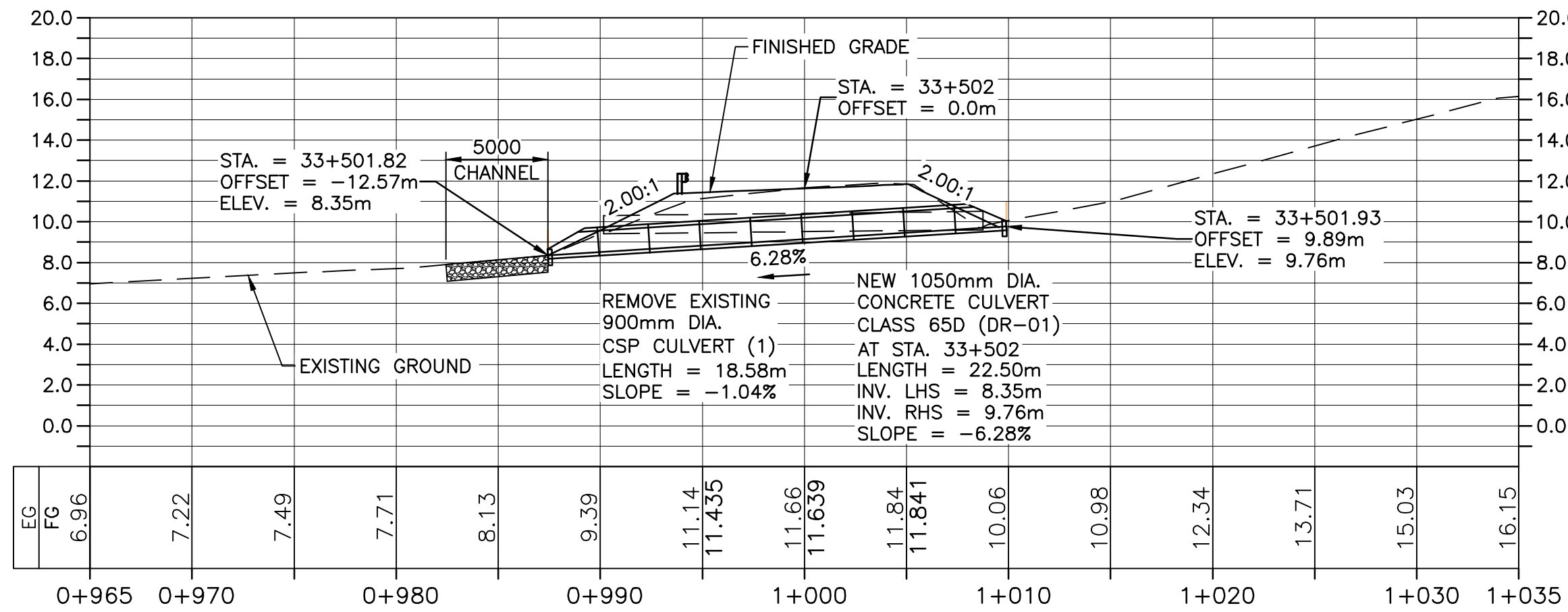
**BARRIER OVER GRAVEL SHOULDER
FRONT VIEW**

NOTES:

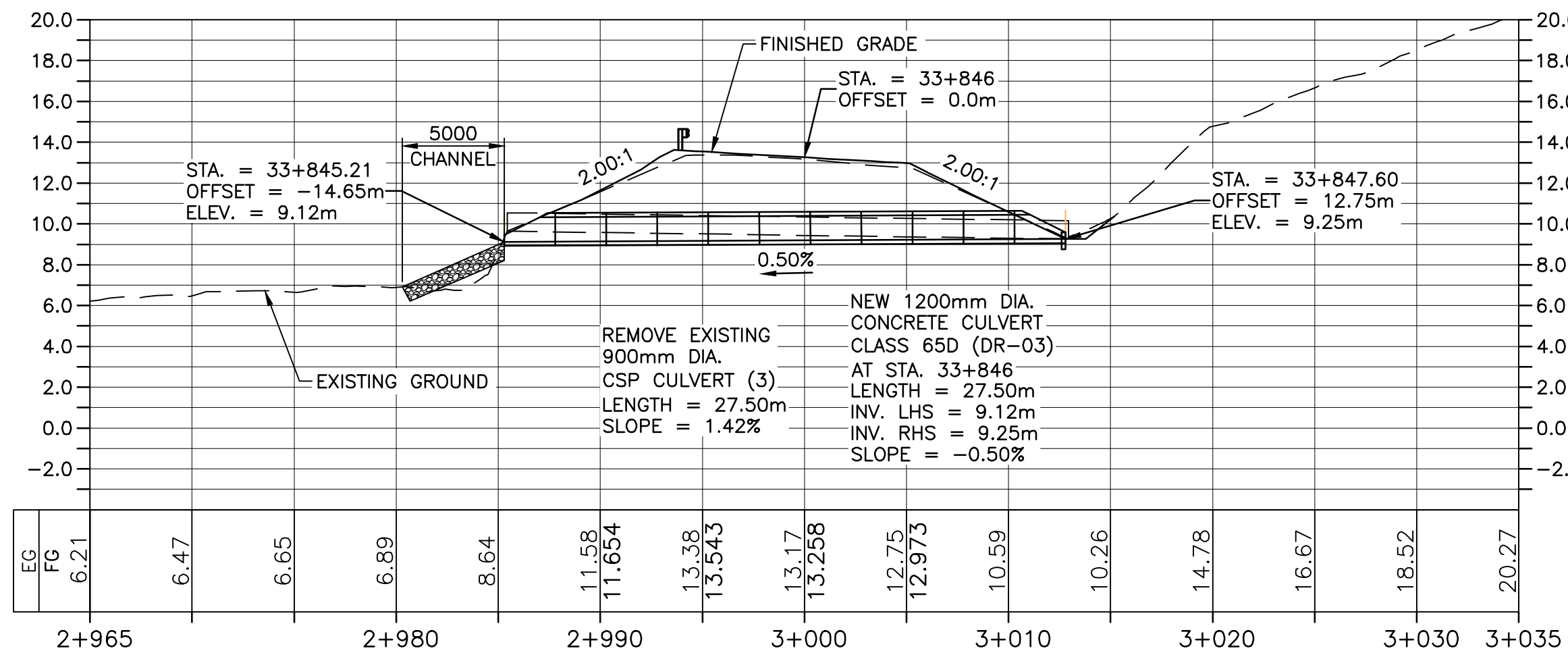
1. PRECAST CONCRETE JERSEY BARRIER SHALL MEET NSTIR F-SHAPE BARRIER SPECIFICATIONS.
2. CONTRACTOR SHALL TAKE PROPER CARE AND PROTECTION MEASURES WHEN ANCHORING BARRIERS TO SURFACE NOT TO DAMAGE EXISTING RETAINING WALL.
3. ALL REINFORCING STEEL SHALL BE GRADE 400W AND CONFORM TO CAN/CSA G30.18.
4. ALL WELDED WIRE MESH SHALL HAVE A FY = 485 MPA AND CONFORM TO ASTM A1064-10.
5. MINIMUM CONCRETE STRENGTH TO BE 21 MPA AT TIME OF STRIPPING.
6. CONCRETE MATERIALS AND METHODS OF CONSTRUCTION TO CAN/CSA A23.1 AND METHODS OF TEST FOR CONCRETE TO CAN/CSA A23.2.
7. CONCRETE CURING SHALL BE IN ACCORDANCE WITH CAN/CSA A23.1.
8. CONCRETE REQUIREMENTS:
 - 8.1 CONCRETE EXPOSURE CLASS: F1
 - 8.2 28 DAY MINIMUM COMPRESSIVE STRENGTH = 45 MPA.
 - 8.3 AIR CONTENT: 5-8%
 - 8.4 MAXIMUM WATER-TO-CEMENT MATERIALS RATIO = 0.4
 - 8.5 NOMINAL AGGREGATE SIZE 13 mm

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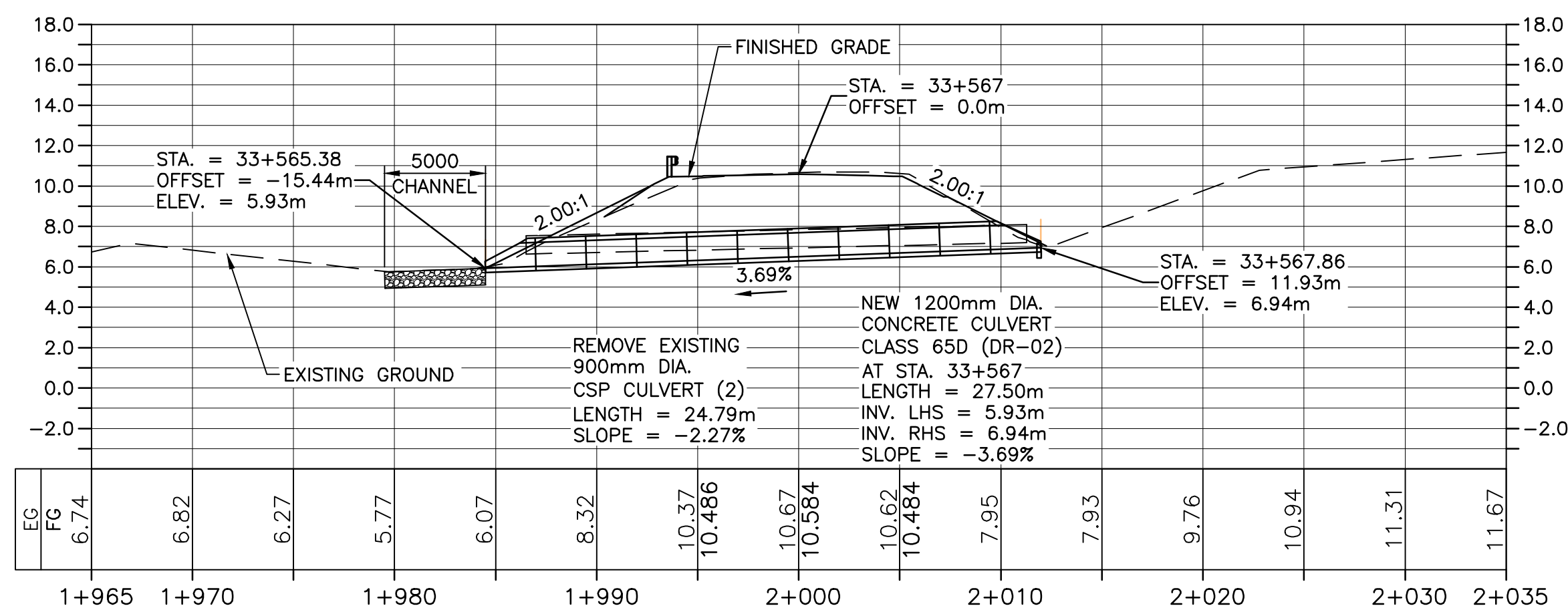
PWSSC A1 (2004)



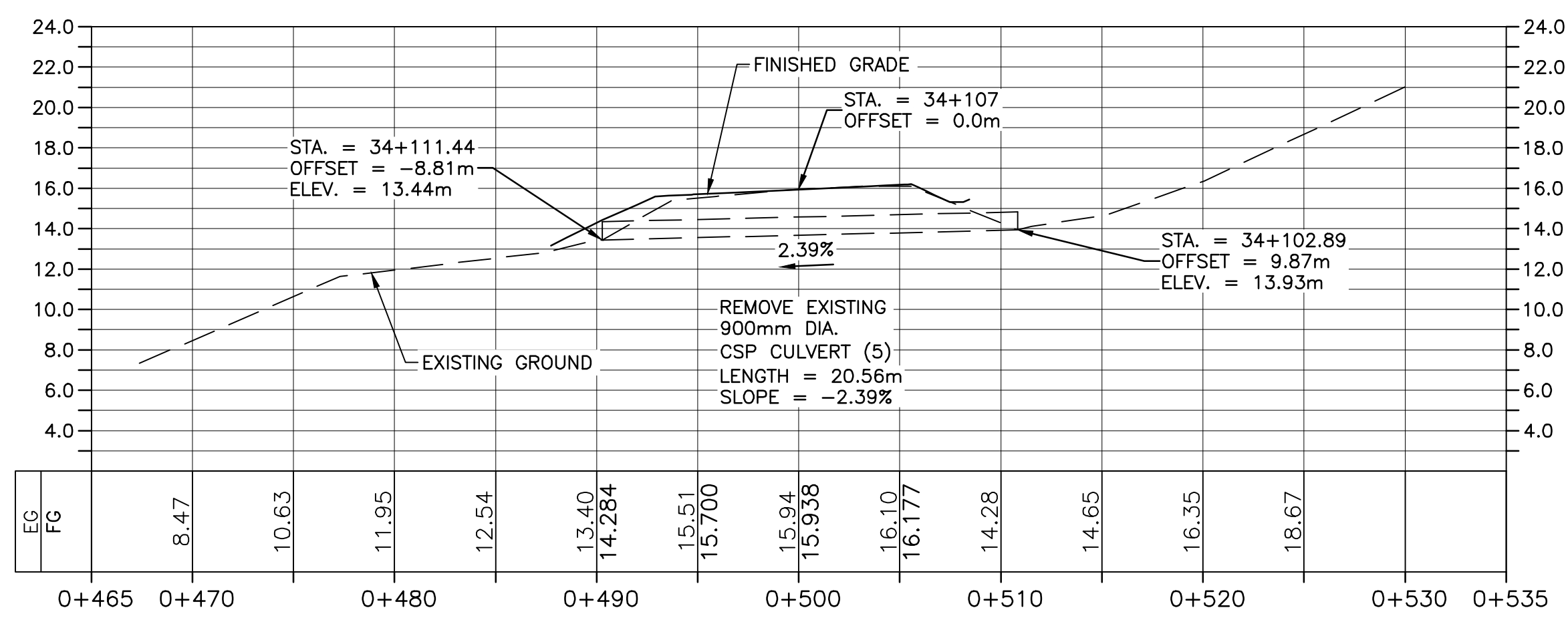
PROFILE OF NEW CULVERT DR-01 AT STA. 33+502



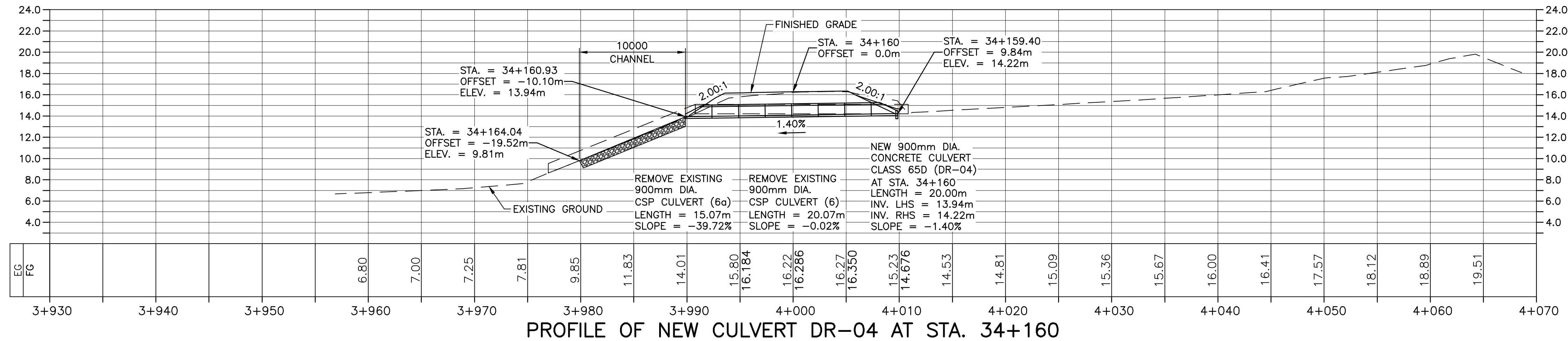
PROFILE OF NEW CULVERT DR-03 AT STA. 33+846



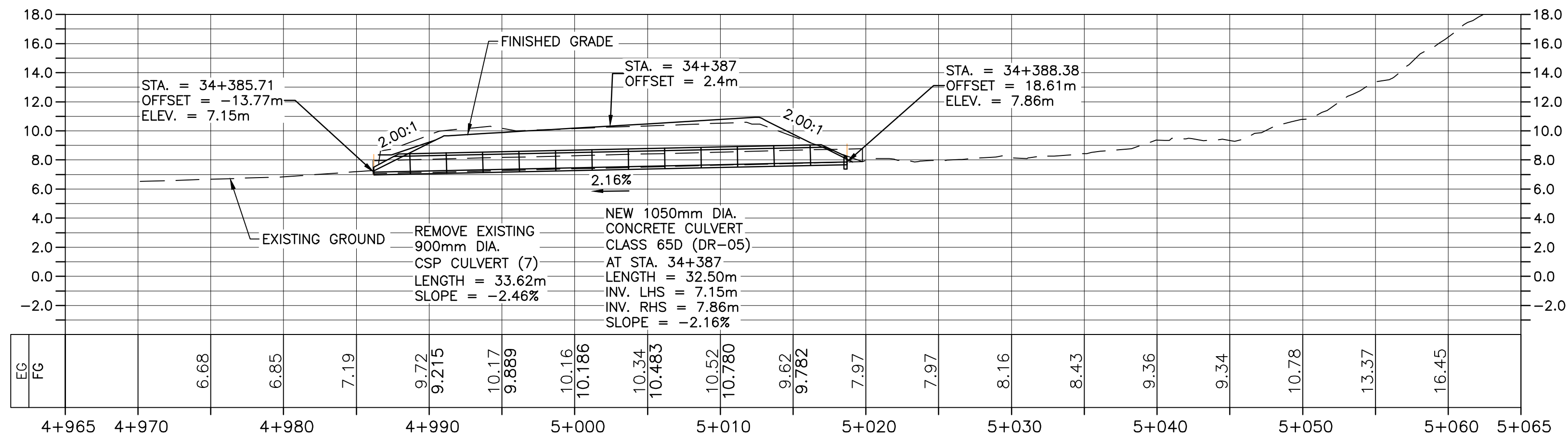
PROFILE OF NEW CULVERT DR-02 AT STA. 33+567



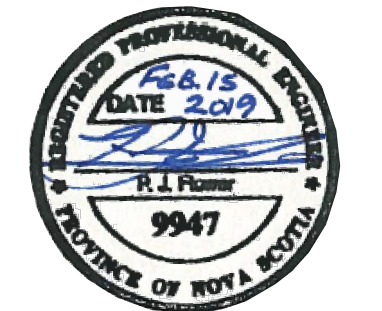
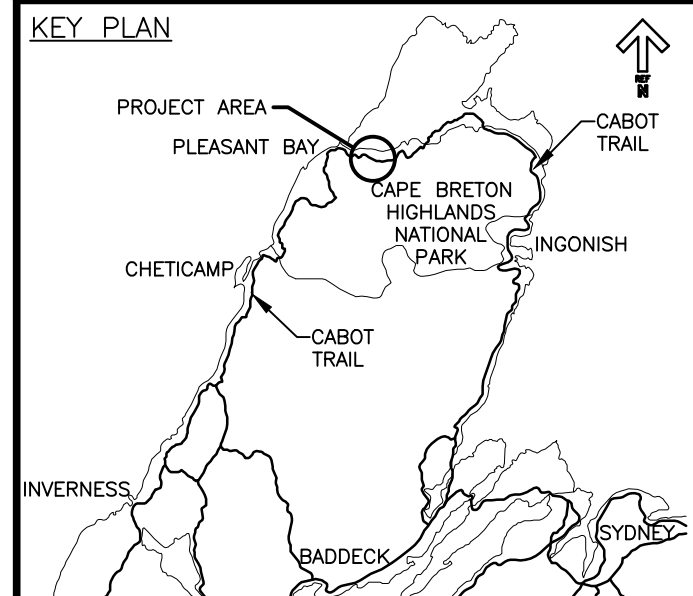
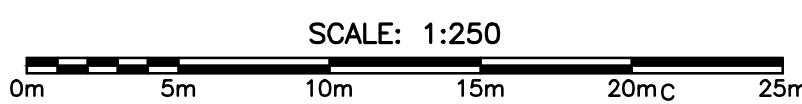
REMOVE EXISTING 900mm DIA. CSP CULVERT AT STA. 34+107



PROFILE OF NEW CULVERT DR-04 AT STA. 34+160



PROFILE OF NEW CULVERT DR-05 AT STA. 34+387



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project
**CABOT TRAIL REHABILITATION
PLEASANT BAY TO
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NATIONAL PARK**

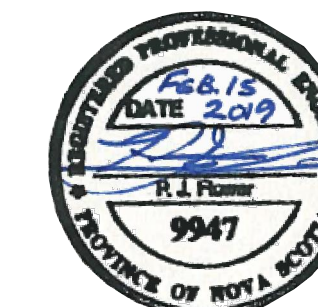
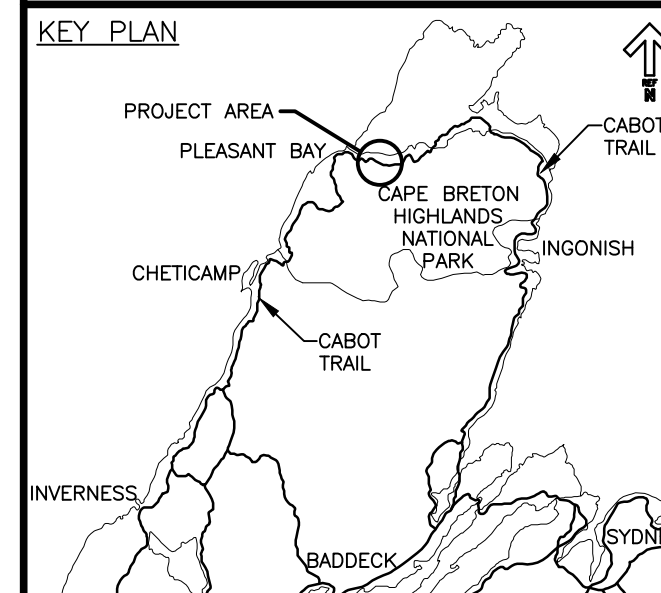
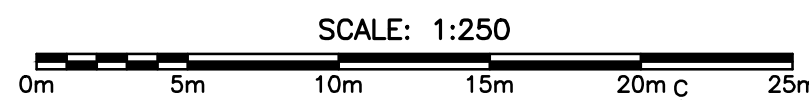
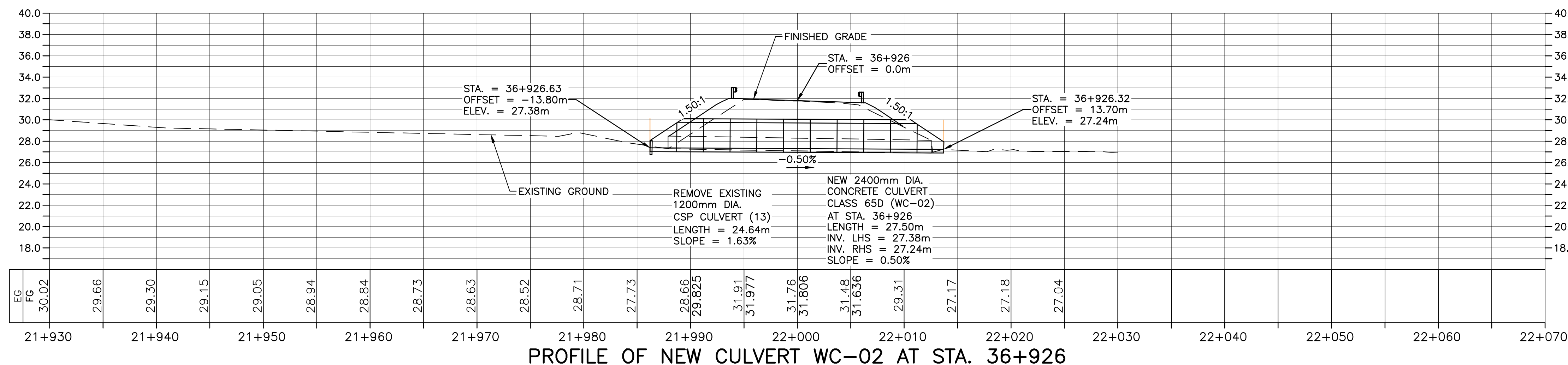
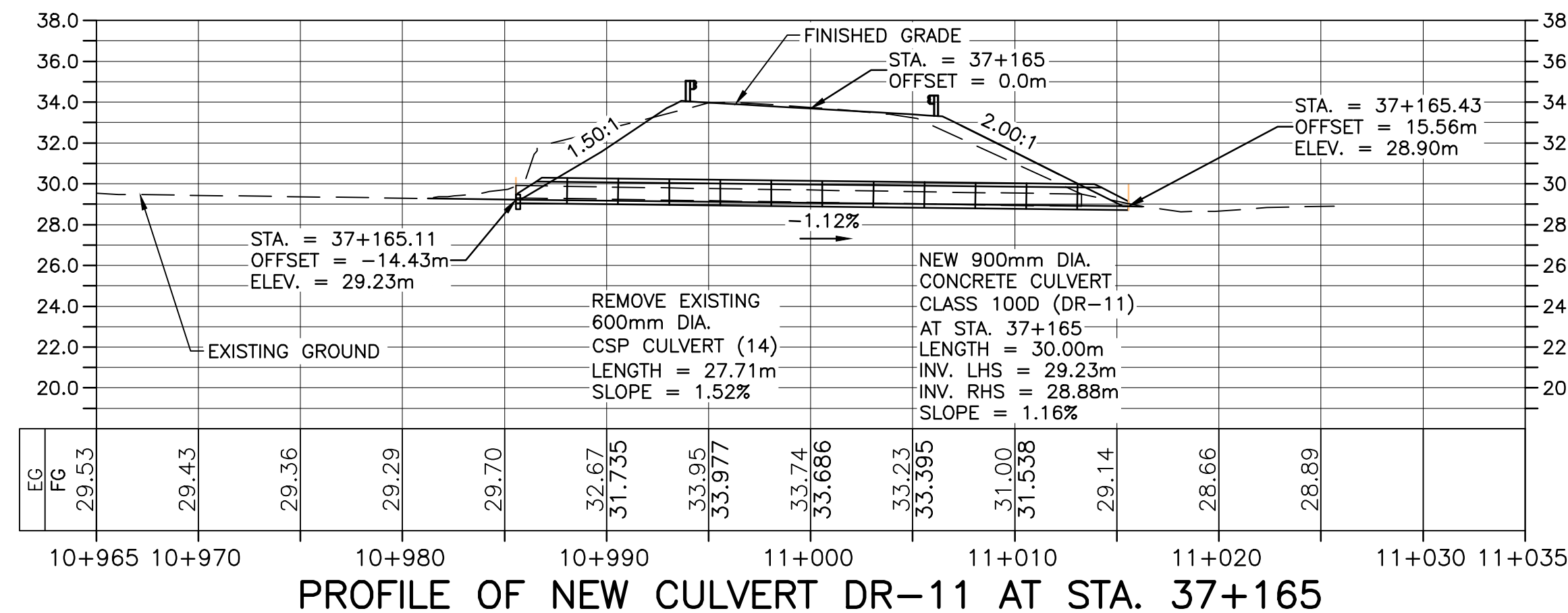
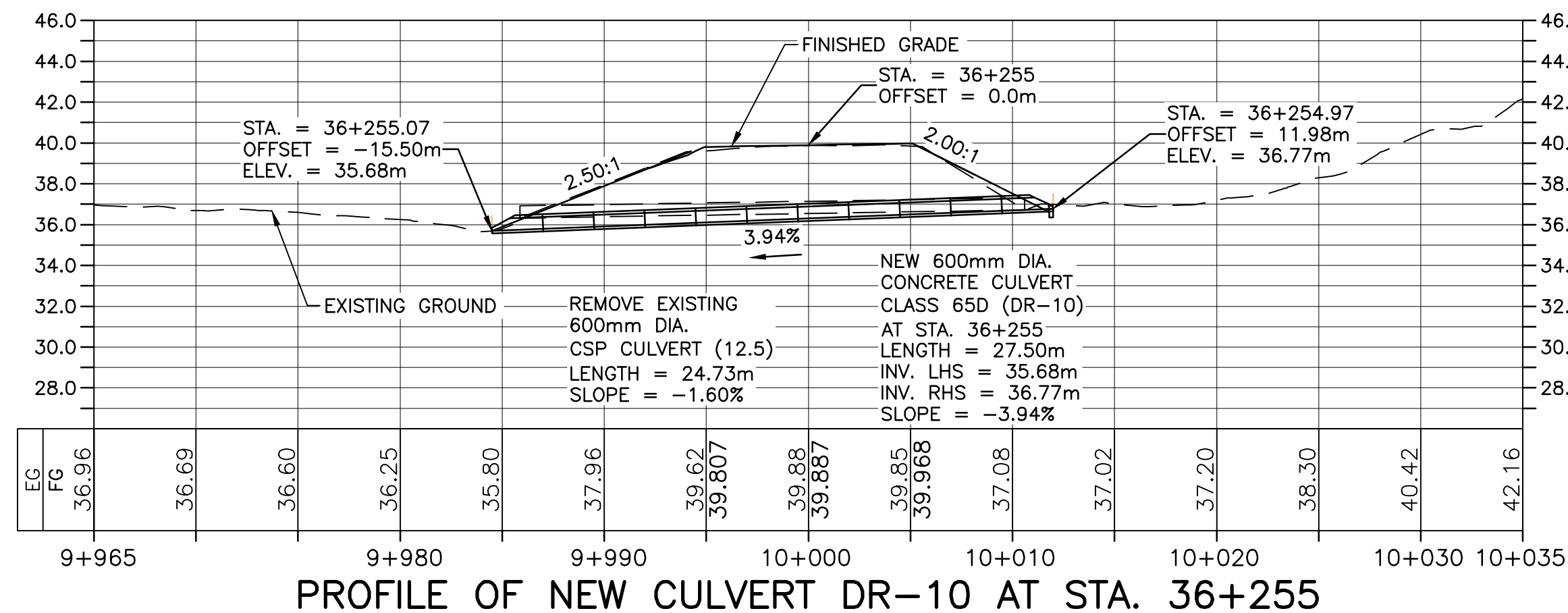
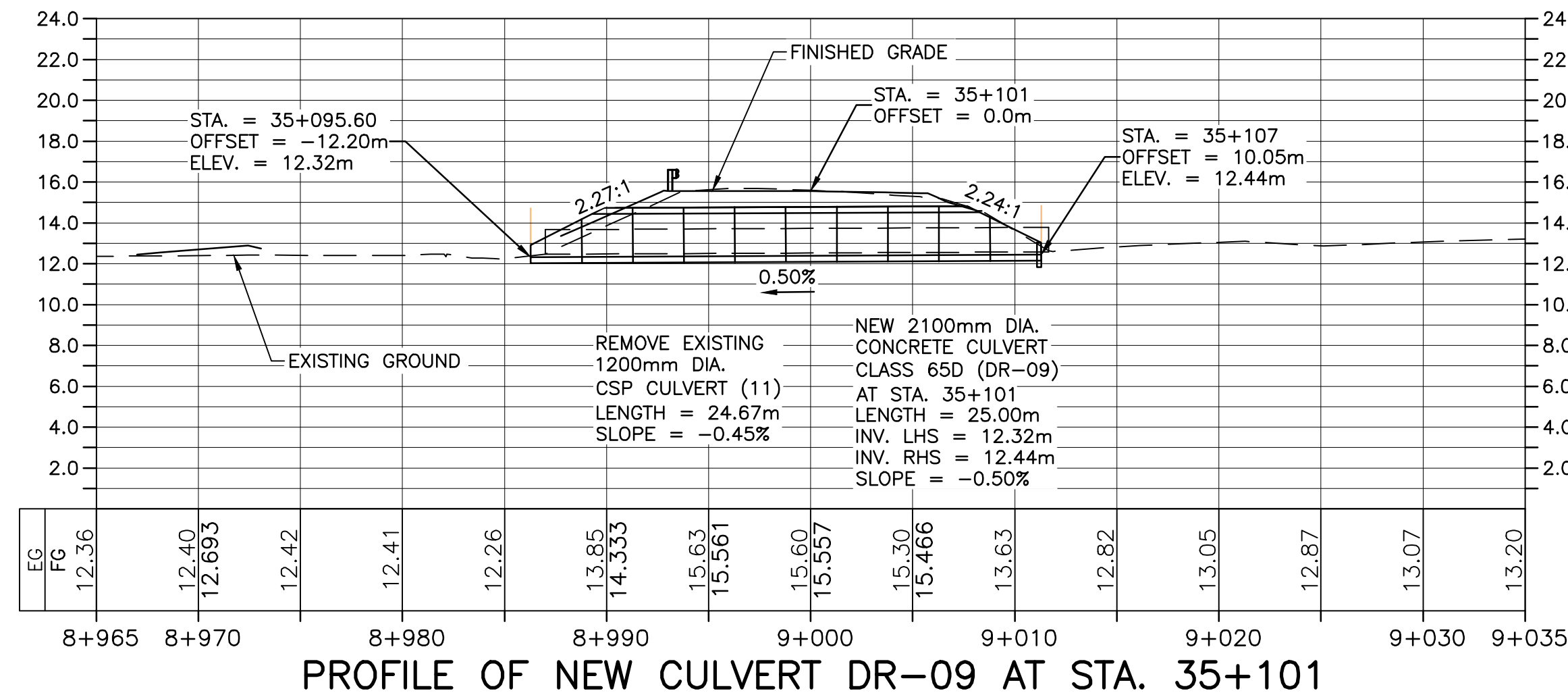
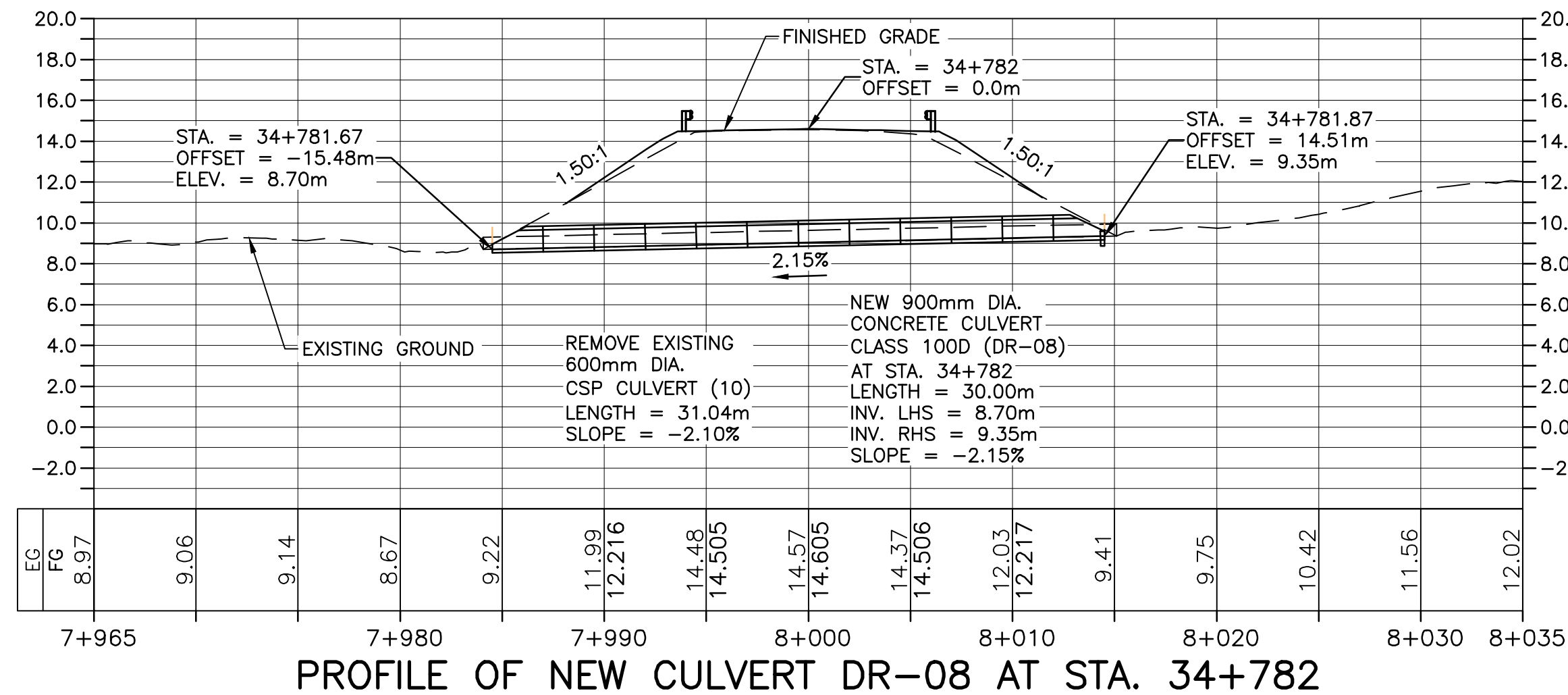
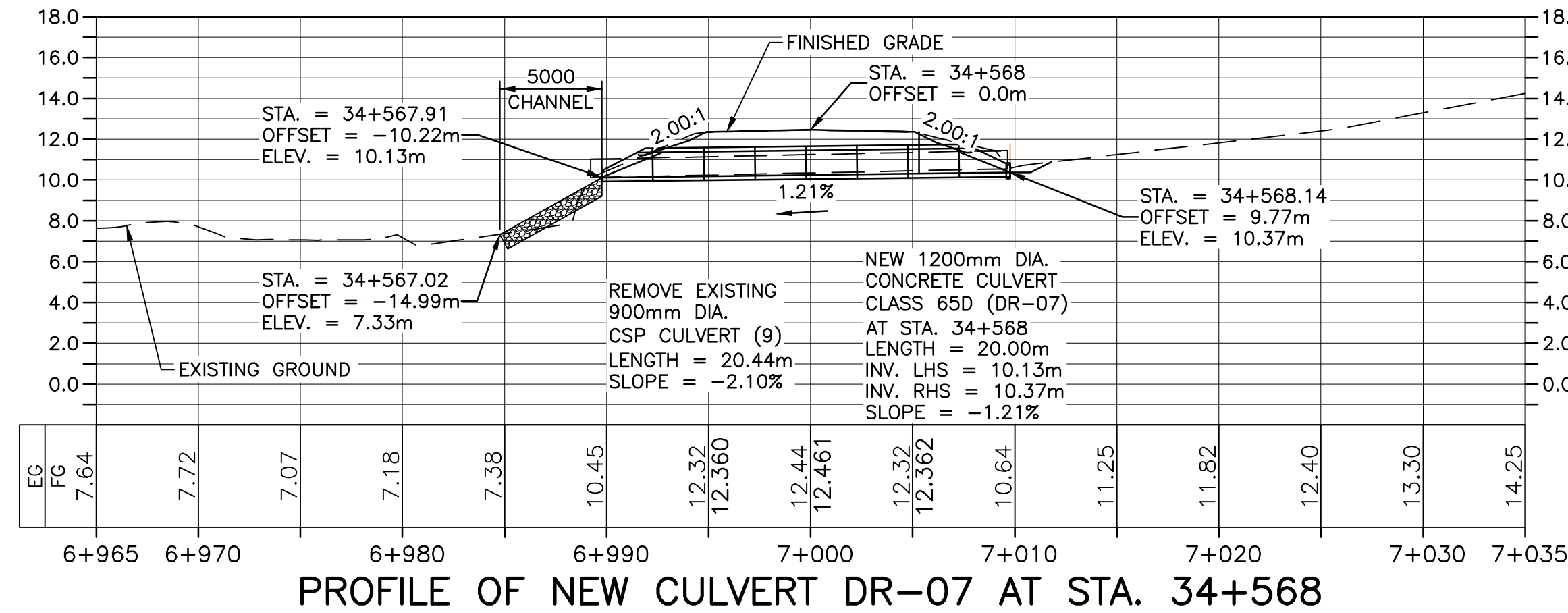
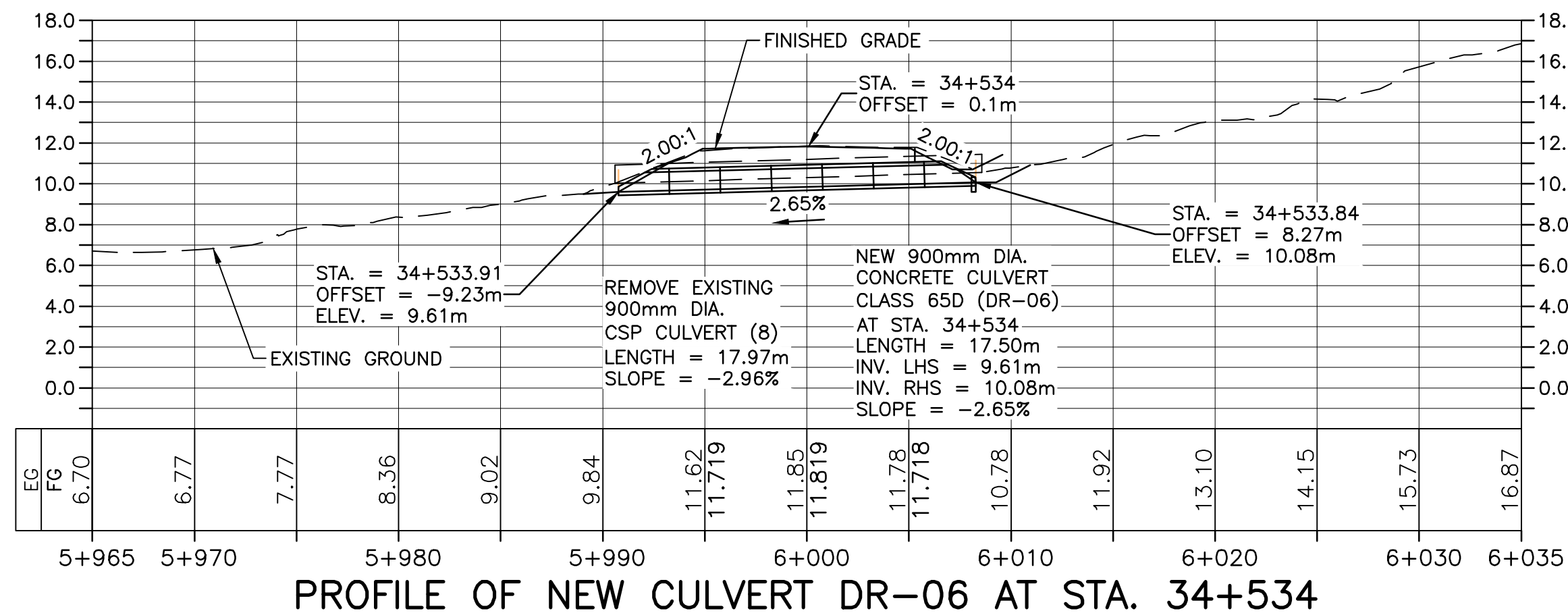
drawing
dessin

CULVERT PROFILES

designed	RLJ/PJF	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number	1114	no. du projet
drawing no.	C-26	no. du dessin

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PWSSC A1 (2004)



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revisions		date

project	project
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CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing	dessin
---------	--------

CULVERT PROFILES

designed	RLJ/PJF	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	

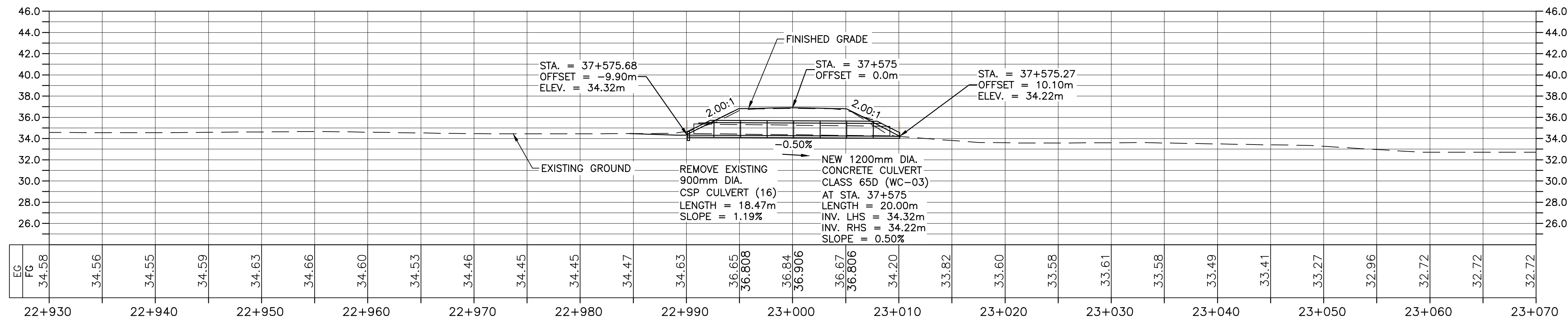
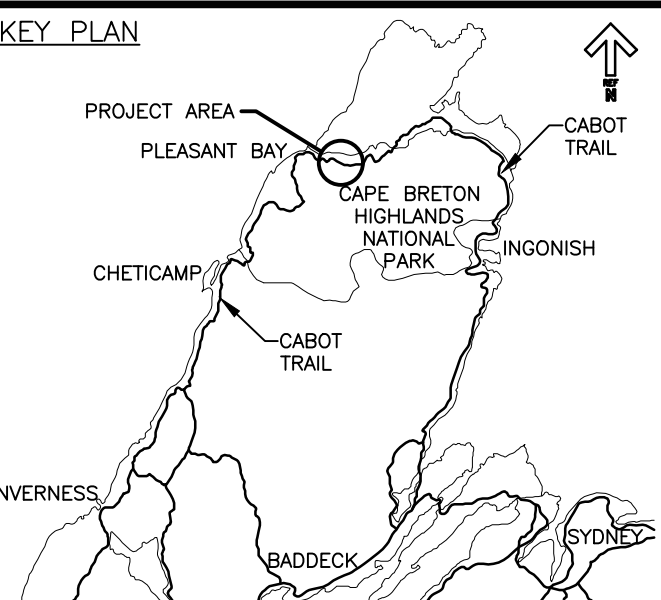
Tender	Soumission
PCA Project Manager	Administrateur de projets PCA

project number	no. du projet
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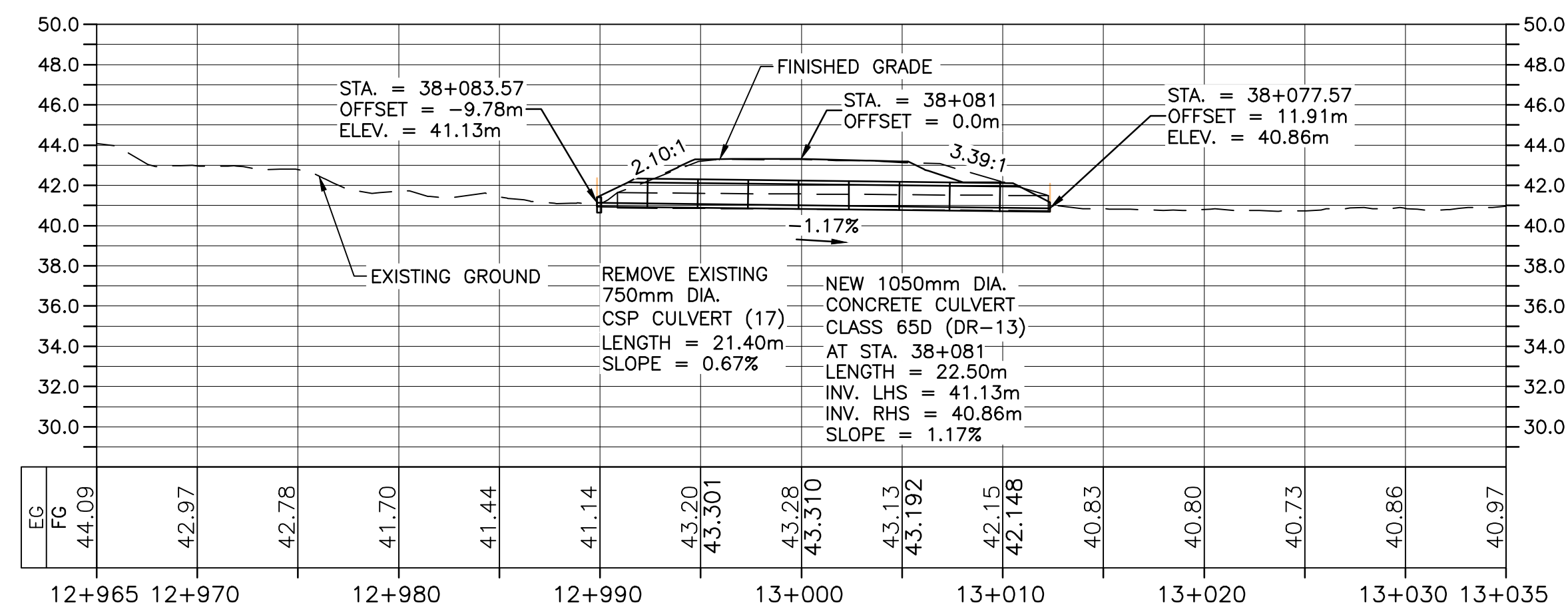
1114

drawing no.	no. du dessin
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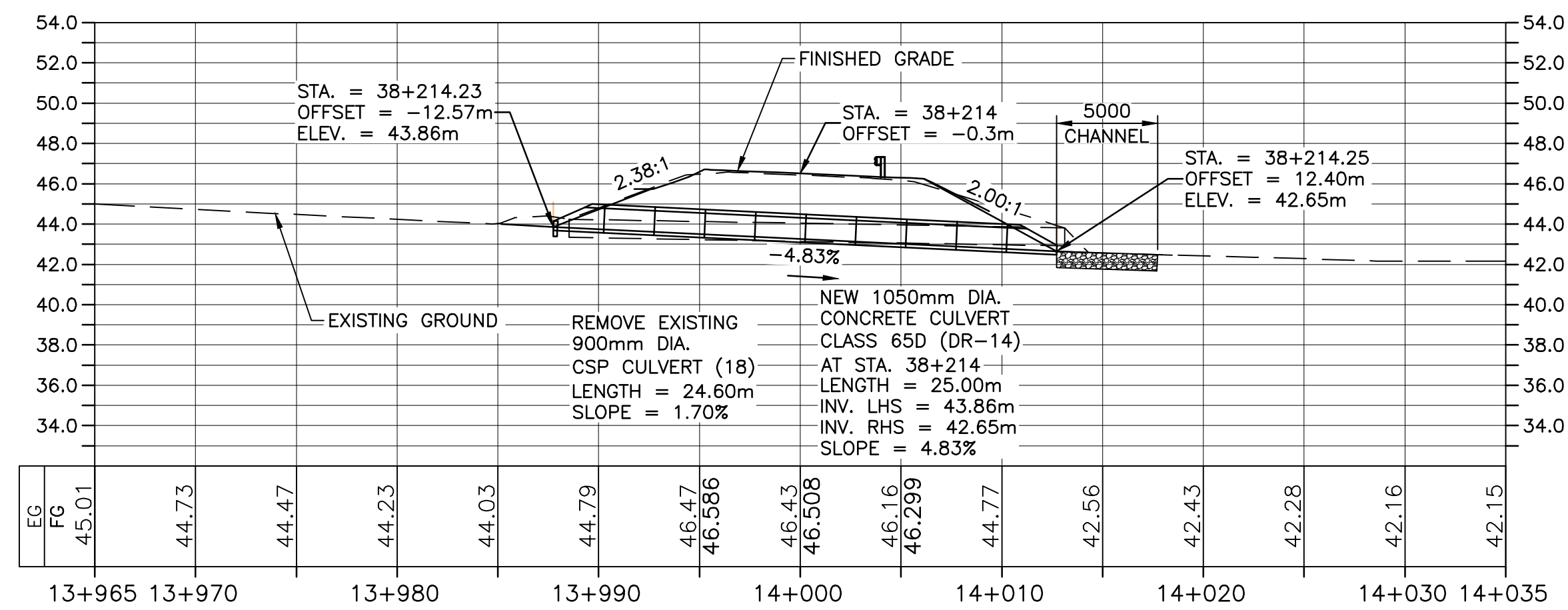
C-27



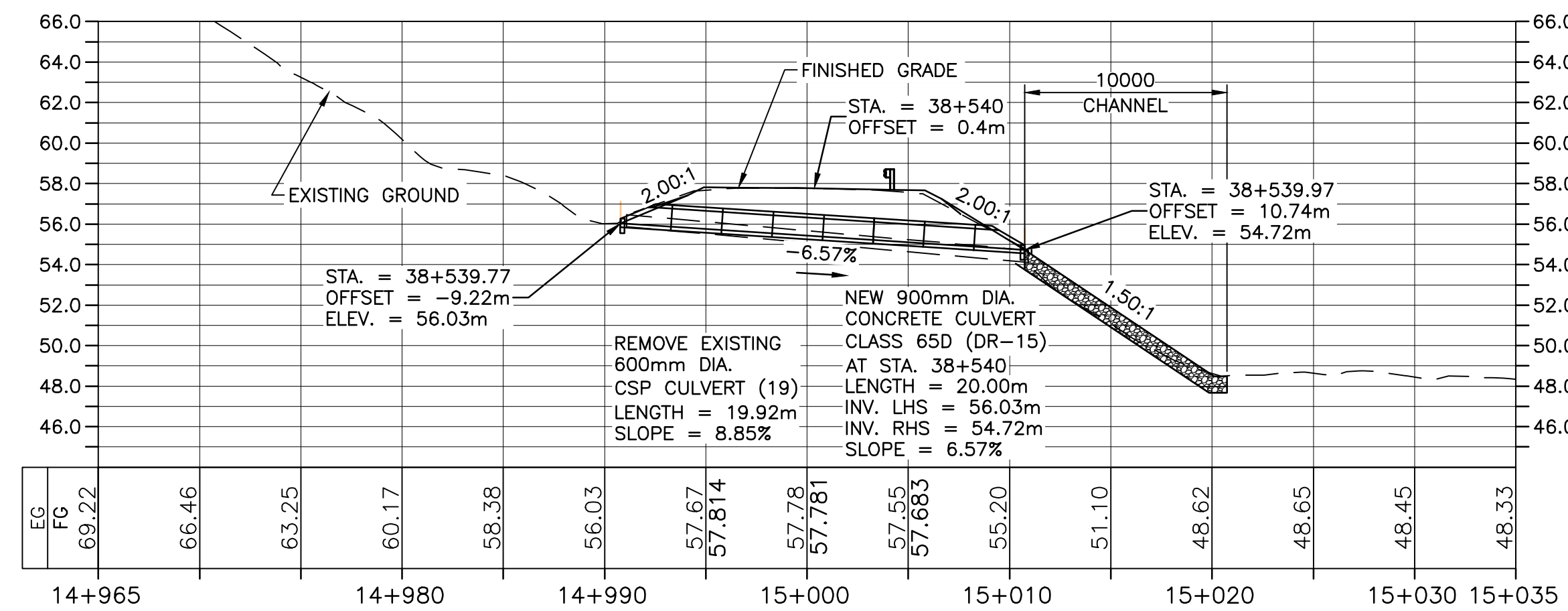
PROFILE OF NEW CULVERT WC-03 AT STA. 37+575



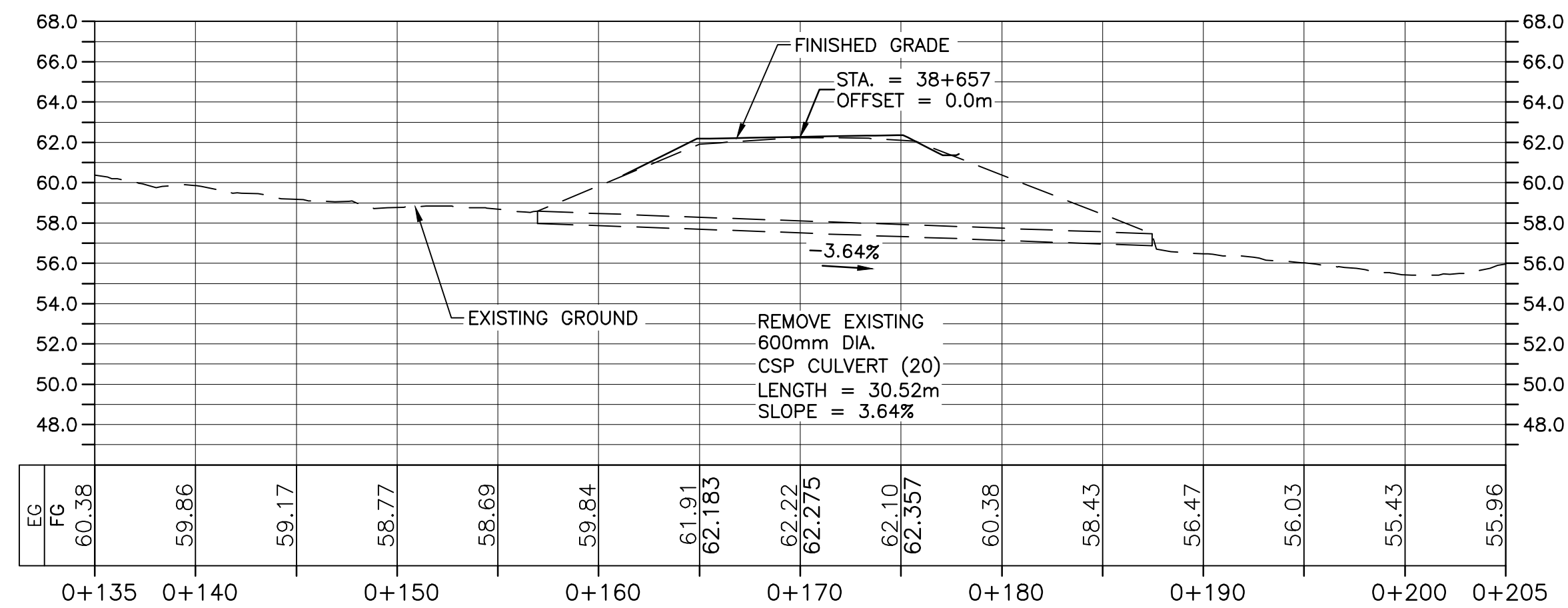
PROFILE OF NEW CULVERT DR-13 AT STA. 38+081



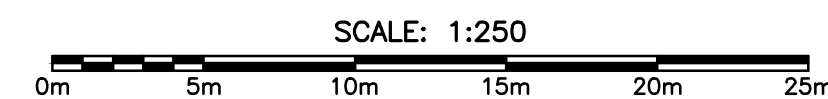
PROFILE OF NEW CULVERT DR-14 AT STA. 38+214



PROFILE OF NEW CULVERT DR-15 AT STA. 38+540



REMOVE EXISTING 600mm DIA. CSP CULVERT AT STA. 38+657

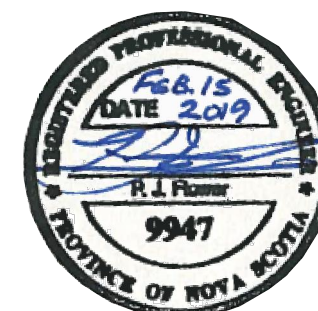


CULVERT PLANTING REQUIREMENTS AT OUTLET AREA

BOTANICAL NAME	COMMON NAME	QUANTITY @ EACH CULVERT	SIZE
ALNUS INCANA	SPECKLED ALDER	25	40cm
ROSA VIRGINIANA	WILD ROSE	25	40cm
SALIX NIGRA	BLACK WILLOW	25	40cm

NOTES:

- 25 OF EACH SPECIES FOR A TOTAL OF 75 AT EACH CULVERT WITH A DISSIPATION POOL. 5 LOCATIONS WITH 5 OF EACH DISTRIBUTED EVENLY THROUGHOUT.
- CONTRACTOR TO PROVIDE 72 HRS NOTICE TO DEPARTMENTAL REPRESENTATIVE TO COORDINATE PARK EPO ON SITE.
- LAYOUT IN FIELD AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.
- CULVERT LOCATIONS WITH DISSIPATION POOL INCLUDES: WC-01, WC-02, DR-12 AND WC-03.



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drawing dessin

CULVERT PROFILES

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date FEB. 15, 2019	

Tender PCA Project Manager
Soumission Administrateur de projets PCA

project number no. du projet

1114

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NOTE:

- EXCAVATED MATERIALS SUITABLE FOR PLACEMENT (e.g. TOPSOIL, COMMON FILL, STREAMBED MATERIAL) MUST BE SALVAGED, STOCKPILED AND REUSED AT THE INSTALLATION OF THE PRECAST CONCRETE BOX CULVERT.
- REINSTATE ROADWAY SUBGRADE, BASE GRANULARS AND TEMPORARY RAP DRIVING SURFACE.
- HYDROSEED AND DRY MULCH DISTURBED SLOPES AND CONSTRUCTION AREAS IMMEDIATELY FOLLOWING INSTALLATION OF CULVERT.

LOCATION OF EACH PLANT SPECIES TO BE CONFIRMED AND APPROVED BY DEPARTMENTAL REPRESENTATIVE

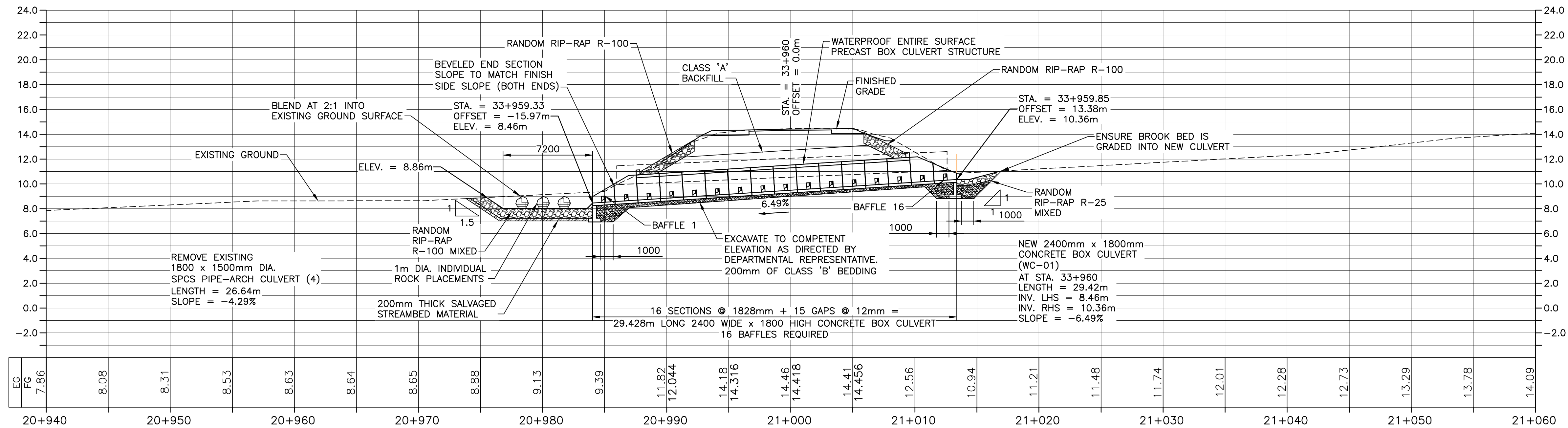
INSTALL NEW
2400mm x 1800mm
CONCRETE BOX CULVERT
(WC-01)
AT STA. 33+960
LENGTH = 29.42m
INV. LHS = 8.46m
INV. RHS = 10.36m
SLOPE = -6.49%
EXISTING
1800 x 1500mm DIA.
SPCS PIPE-ARCH CULVERT (4)
AT STA. 33+960
LENGTH = 26.64m
INV. LHS = 9.95m
INV. RHS = 11.10m
SLOPE = -4.29%

WC-01

BAFFLE TABLE FOR WC-01					
BAFFLE ID	TOP OF BAFFLE ELEV.	BAFFLE SPACING	BAFFLE ID	TOP OF BAFFLE ELEV.	BAFFLE SPACING
1	9.02	0.92	9	9.98	1.84
2	9.14	1.84	10	10.10	1.84
3	9.26	1.84	11	11.10	1.84
4	9.38	1.84	12	12.10	1.84
5	9.50	1.84	13	13.10	1.84
6	9.62	1.84	14	14.10	1.84
7	9.74	1.84	15	15.10	1.84
8	9.86	1.84	16	16.10	1.84

PLAN

SCALE : 1:200

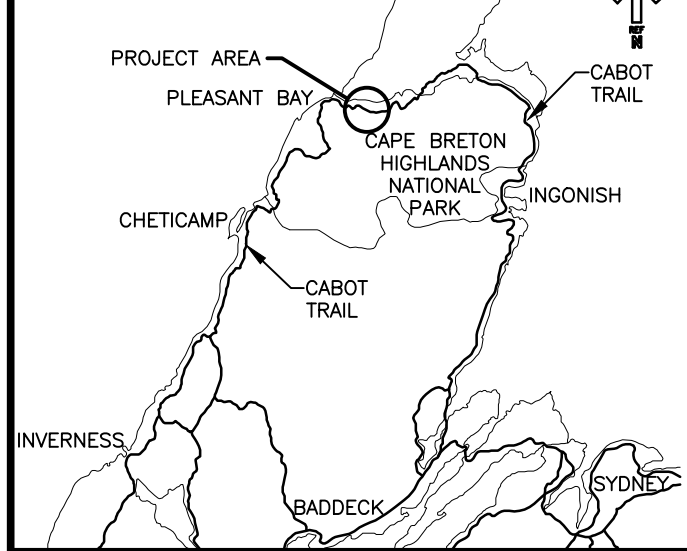


PROFILE OF NEW CULVERT WC-01 AT STA. 33+960

SCALE : 1:200

0m 5m 10m 15m 20m 25m

KEY PLAN



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CABOT TRAIL REHABILITATION
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CAPE BRETON HIGHLANDS
NATIONAL PARK

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NEW CULVERT WC-01
AT STA. 33+960
PLAN AND PROFILE

designed RLJ/PJF conçu

date MAY. 31, 2018

drawn JLD/CCP dessiné

date MAY. 31, 2018

approved RMB approuvé

date FEB. 15, 2019

Tender Soumission

PCA Project Manager Administrateur de projets PCA

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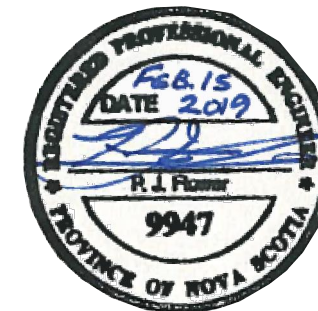
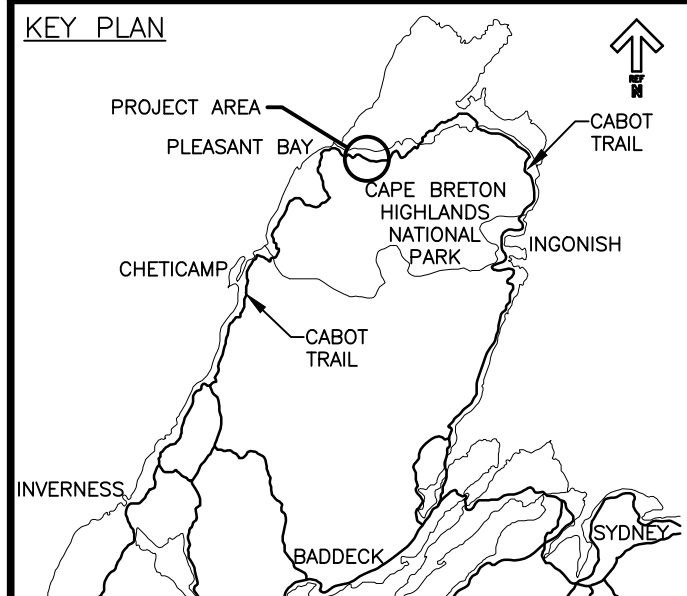
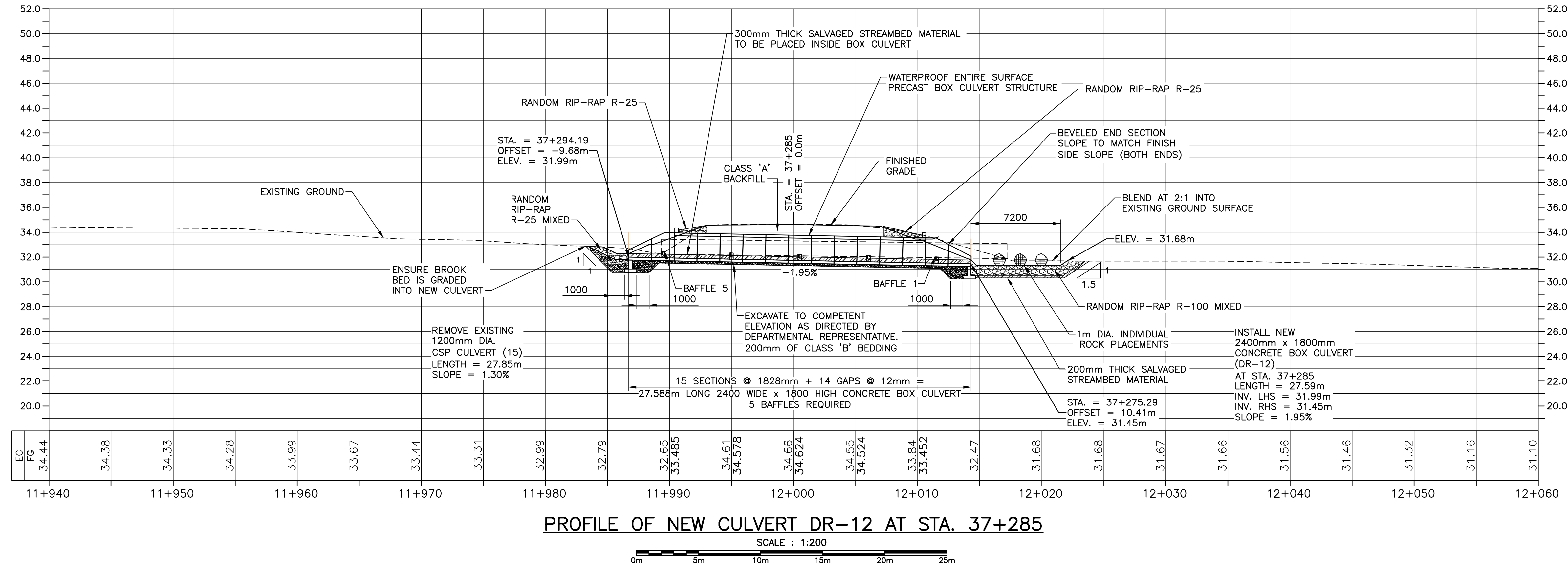
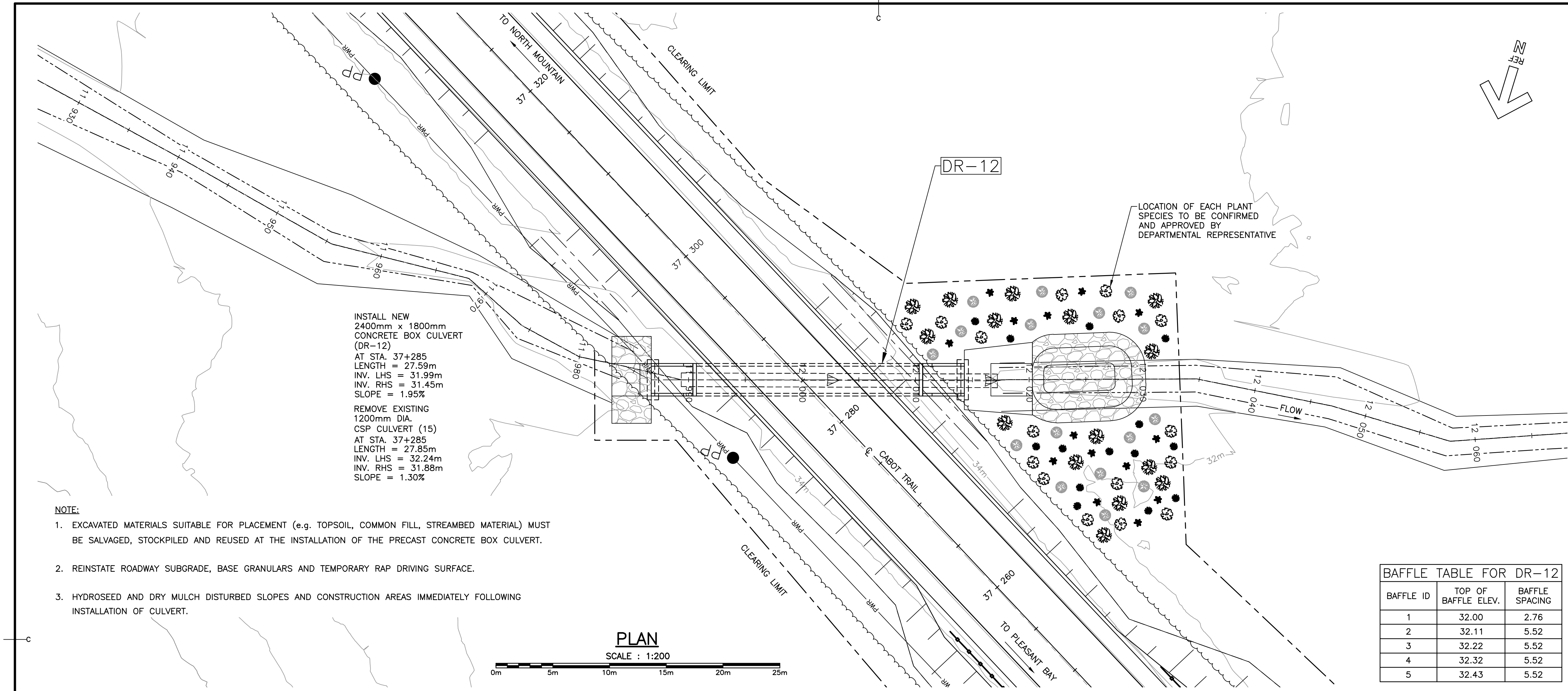
1114

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PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing dessin

NEW CULVERT DR-12 AT STA. 37+285 PLAN AND PROFILE

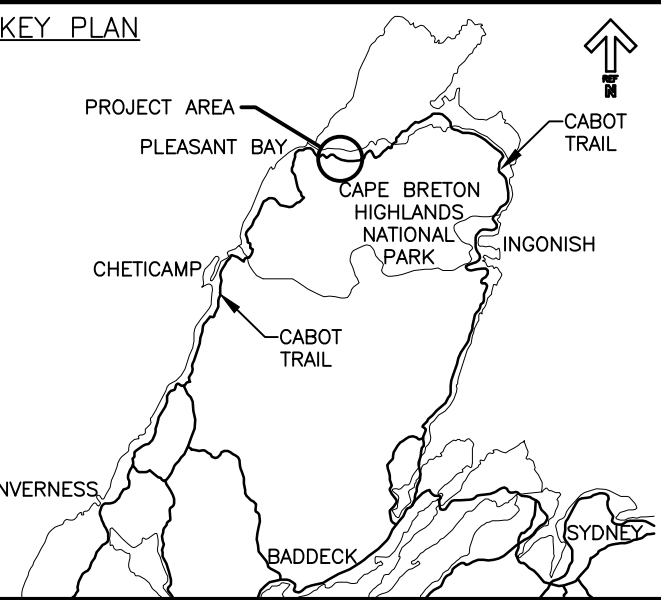
designed RLJ/PJF	conçu
date MAY. 31, 2018	
drawn JLD/CCP	dessiné
date MAY. 31, 2018	
approved RMB	approuvé
date FEB. 15, 2019	

Tender Soumission
PCA Project Manager Administrateur de projets PCA
project number no. du projet

1114

drawing no. no. du dessin

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**CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessin

CULVERT DETAILS

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1114

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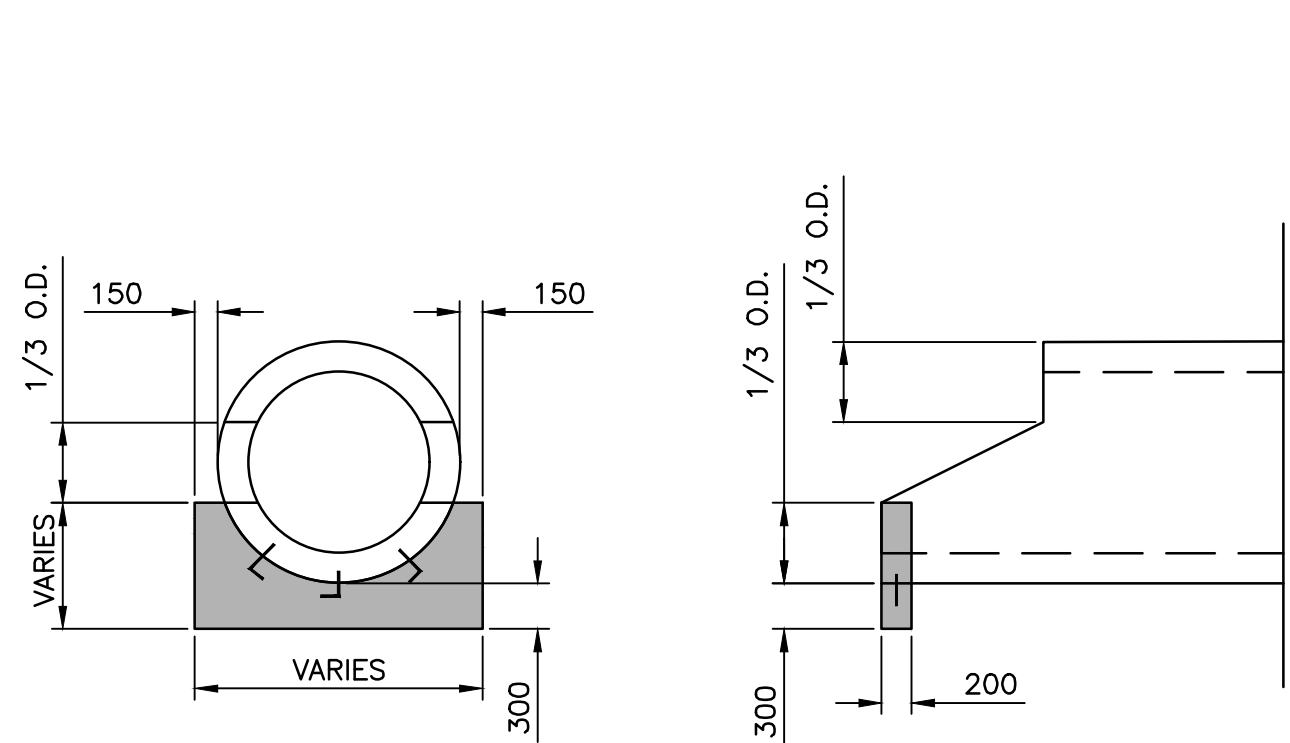
E-DRM/GDD-E: NOT IN SYSTEM

CULVERT TABLE

CULVERT DETAILS															INLET END TREATMENT		OUTLET END TREATMENT						
NAME	CULVERT SIZE	LENGTH	SLOPE	LHS STATION	LHS EASTING	LHS NORTHING	LHS INVERT	RHS STATION	RHS EASTING	RHS NORTHING	RHS INVERT	PIPE CLASS	BEVELLED ENDS	INSULATED PIPE	LAYOUT TYPE	APRON RIP-RAP SIZE	LAYOUT TYPE	APRON RIP-RAP SIZE	OFFTAKE TYPE	RIP-RAP SIZE	OFFTAKE LENGTH	TENSION BAR ASSEMBLY	INDIVIDUAL ROCK PLACEMENTS
DR-01	1,050 MM CONCRETE PIPE	22.50	-6.28%	33+501.82	668320.30	5187255.09	8.35	33+501.93	668311.80	5187234.30	9.76	65D	YES	NO	APRON & CUT-OFF WALL	R-25	APRON & CUT-OFF WALL	R-25	CHANNEL	R-100 MIXED	5m	YES	-
DR-02	1,200 MM CONCRETE PIPE	27.50	-3.69%	33+565.38	668380.26	5187234.57	5.93	33+567.86	668372.57	5187208.19	6.94	65D	YES	NO	APRON & CUT-OFF WALL	R-25	APRON	R-25	CHANNEL	R-100 MIXED	5m	YES	-
DR-03	1,200 MM CONCRETE PIPE	27.50	-0.50%	33+845.21	668631.17	5187102.47	9.12	33+847.60	668612.59	5187082.20	9.25	65D	YES	NO	APRON & CUT-OFF WALL	R-25	APRON	R-25	CHANNEL	R-100 MIXED	5m	NO	-
WC-01	2,400 X 1,800 MM CONCRETE BOX CULVERT	29.42	-6.49%	33+959.30	668697.72	5187006.32	8.46	33+959.85	668672.81	5186990.80	10.36	N/A	YES	NO	APRON & CUT-OFF WALL	R-100	APRON & CUT-OFF WALL	R-100	POOL	R-100 MIXED	7.2m	YES	3
DR-04	900 MM CONCRETE PIPE	20.00	-1.40%	34+160.93	668831.17	5186868.82	13.94	34+159.41	668820.19	5186852.11	14.22	65D	YES	NO	APRON & CUT-OFF WALL	R-25	APRON	R-25	CHANNEL	R-100 MIXED	10m	NO	-
DR-05	1,050 MM CONCRETE PIPE	32.50	-2.16%	34+385.71	669029.68	5186776.96	7.15	34+388.38	669028.26	5186744.50	7.86	65D	YES	NO	APRON & CUT-OFF WALL	R-25	APRON	R-25	-	-	-	YES	-
DR-06	900 MM CONCRETE PIPE	17.50	-2.65%	34+533.91	669170.10	5186796.87	9.61	34+533.84	669174.82	5186780.02	10.08	65D	YES	YES	APRON & CUT-OFF WALL	R-25	APRON	R-25	-	-	-	YES	-
DR-07	1,200 MM CONCRETE PIPE	20.00	-1.21%	34+567.91	669202.54	5186807.12	10.13	34+568.13	669208.22	5186787.95	10.37	65D	YES	NO	APRON & CUT-OFF WALL	R-25	APRON	R-25	CHANNEL	R-100 MIXED	5m	NO	-
DR-08	900 MM CONCRETE PIPE	30.00	-2.15%	34+781.67	669406.73	5186870.59	8.70	34+781.87	669415.12	5186841.79	9.35	100D	YES	NO	APRON & CUT-OFF WALL	R-25	APRON	R-25	-	-	-	YES	-
DR-09	2,100 MM CONCRETE PIPE	25.00	-0.50%	35+095.60	669720.39	5186898.19	12.32	35+107.00	669725.64	5186873.75	12.44	65D	YES	YES	APRON & CUT-OFF WALL	R-25	APRON	R-25	-	-	-	NO	-
DR-10	600 MM CONCRETE PIPE	27.50	-3.94%	36+255.07	670832.63	5186825.63	35.68	36+254.97	670816.34	5186803.50	36.77	65D	YES	NO	APRON & CUT-OFF WALL	R-25	APRON	R-25	-	-	-	YES	-
WC-02	2,400 MM CONCRETE PIPE	27.50	0.50%	36+926.63	671380.93	5187046.90	27.38	36+926.32	671398.03	5187025.36	27.24	65D	YES	NO	APRON & CUT-OFF WALL	R-25	APRON	R-25	POOL	R-100 MIXED	-	NO	3
DR-11	900 MM CONCRETE PIPE	30.00	1.16%	37+165.11	671619.70	5187082.48	29.23	37+165.43	671608.33	5187054.72	28.88	100D	YES	NO	APRON & CUT-OFF WALL	R-25	APRON	R-25	-	-	-	NO	-
DR-12	2,400 X 1,800 MM CONCRETE BOX CULVERT	27.59	1.95%	37+294.19	671731.70	5187014.94	31.99	37+275.29	671705.32	5187006.88	31.45	N/A	YES	YES	APRON & CUT-OFF WALL	R-25	APRON & CUT-OFF WALL	R-25	POOL	R-100 MIXED	7.2m	NO	3
WC-03	1,200 MM CONCRETE PIPE	20.00	0.50%	37+575.68	671976.20	5186875.45	34.32	37+575.29	671965.94	5186858.29	34.22	65D	YES	NO	APRON & CUT-OFF WALL	R-25	APRON	R-25	POOL	R-100 MIXED	-	NO	3
DR-13	1,050 MM CONCRETE PIPE	22.50	1.17%	38+083.57	672443.28	5186708.15	41.13	38+077.57	672435.43	5186687.07	40.86	65D	YES	NO	APRON & CUT-OFF WALL	R-25	APRON	R-25	-	-	-	NO	-
DR-14	1,050 MM CONCRETE PIPE	25.00	4.83%	38+214.23	672574.61	5186692.38	43.86	38+214.25	672568.76	5186668.10	42.65	65D	YES	NO	APRON & CUT-OFF WALL	R-25	APRON	R-25	CHANNEL	-	5m	YES	-
DR-15	900 MM CONCRETE PIPE	20.00	6.57%	38+539.77	672886.15	5186593.53	56.03	38+539.97	672879.20	5186574.83	54.72	65D	YES	NO	APRON & CUT-OFF WALL	R-25	APRON & CUT-OFF WALL	R-25	CHANNEL	R-100 MIXED	10m	YES	-

RIP-RAP TYPE	THICKNESS (T)
R-25	500
R-100	800

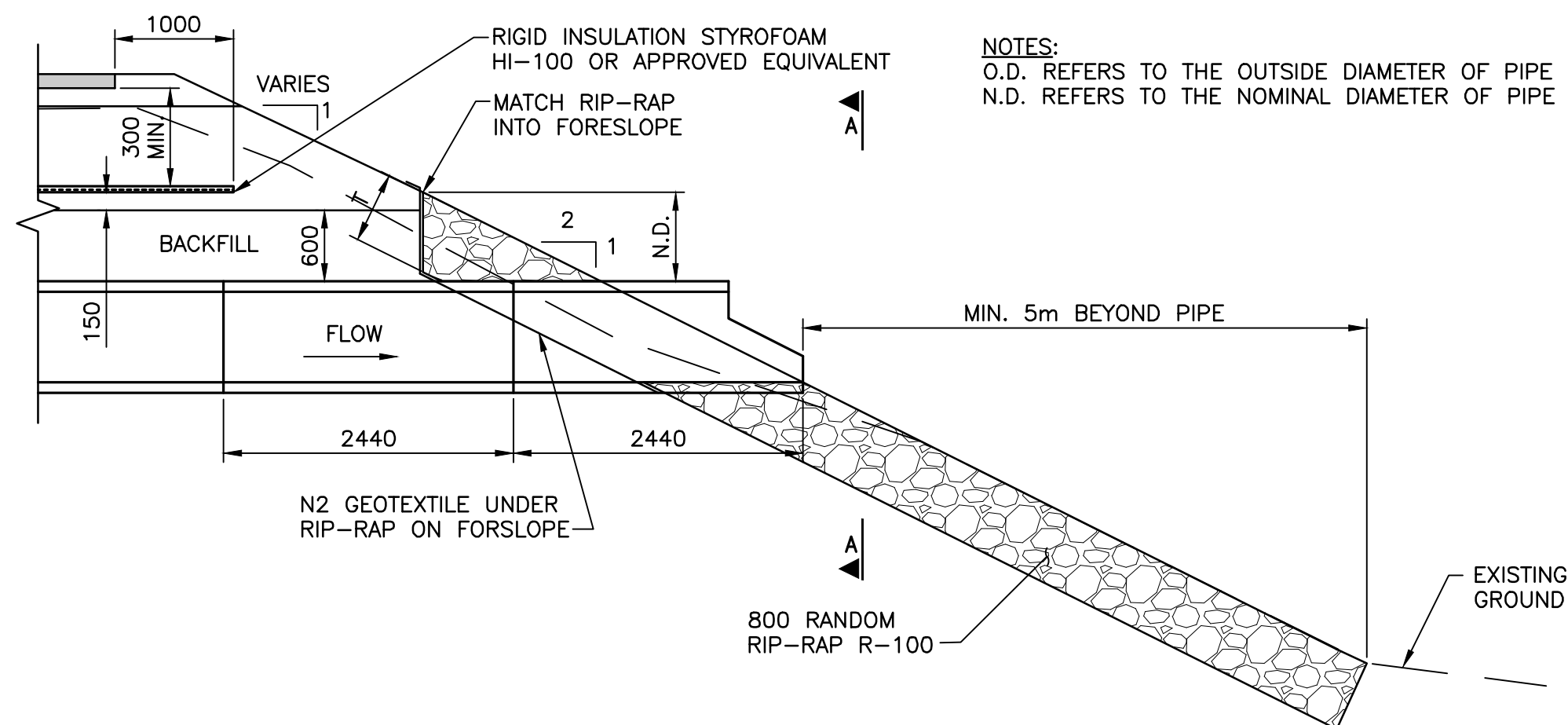
NOTE:
DR = DRAINAGE CULVERT
WC = WATERCOURSE CULVERT



NOTES:
1. REQUIRED AT THE INLET END OF ALL CULVERTS, UNLESS OTHERWISE NOTED.

CUT-OFF WALL DETAIL

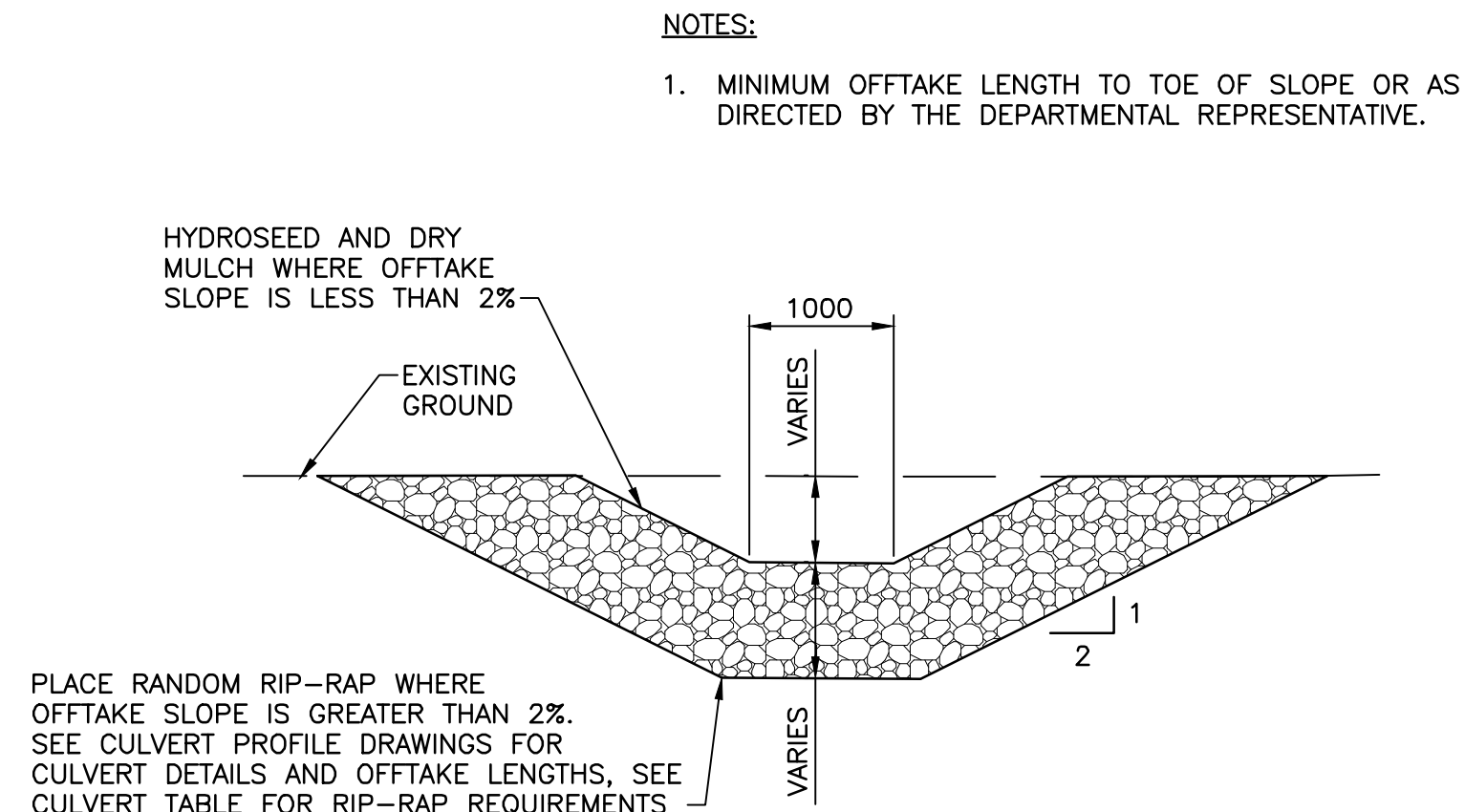
SCALE: 1:50



NOTES:
O.D. REFERS TO THE OUTSIDE DIAMETER OF PIPE
N.D. REFERS TO THE NOMINAL DIAMETER OF PIPE

TYPICAL CULVERT OFFTAKE END TREATMENT RIP-RAP PROTECTION DETAILS

SCALE: 1:50

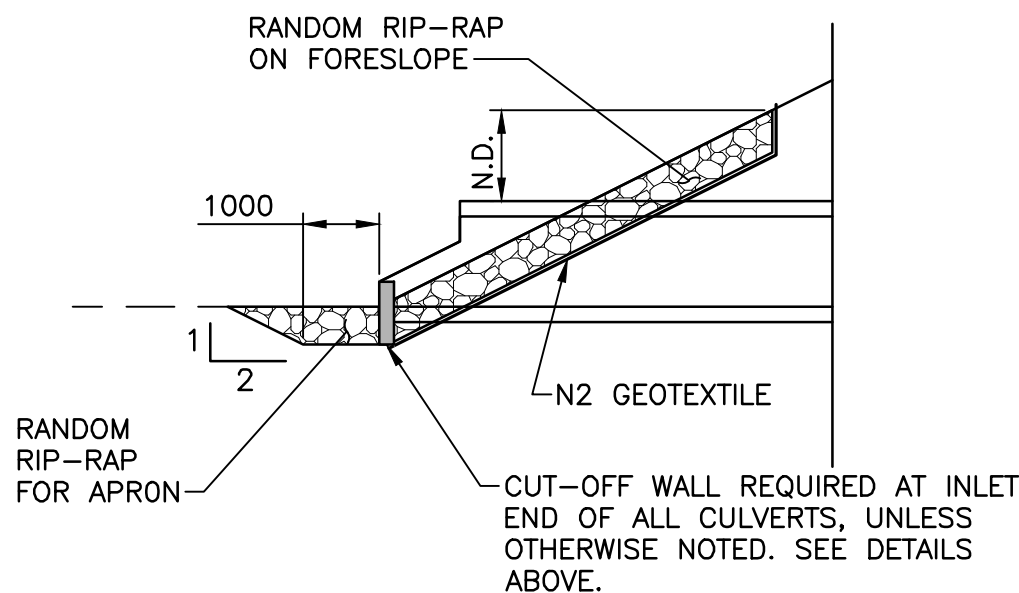


NOTES:
1. MINIMUM OFFTAKE LENGTH TO TOE OF SLOPE OR AS DIRECTED BY THE DEPARTMENTAL REPRESENTATIVE.

TYPICAL CULVERT OFFTAKE SECTION RIP-RAP PROTECTION DETAILS

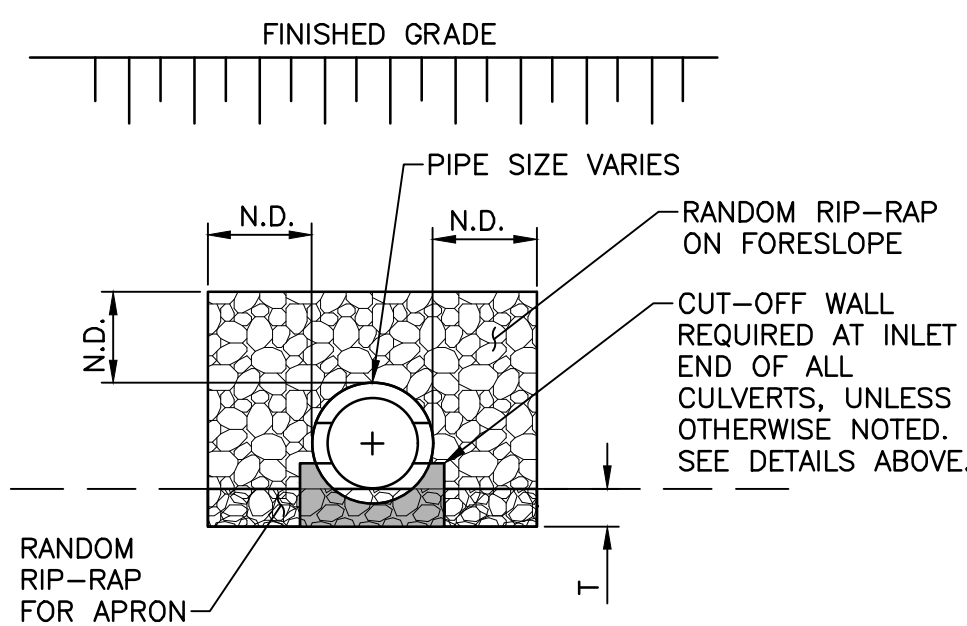
SCALE: 1:50

NOTES:
1. SEE CULVERT TABLE ABOVE FOR RIP-RAP TABLE SIZE AND TYPE.



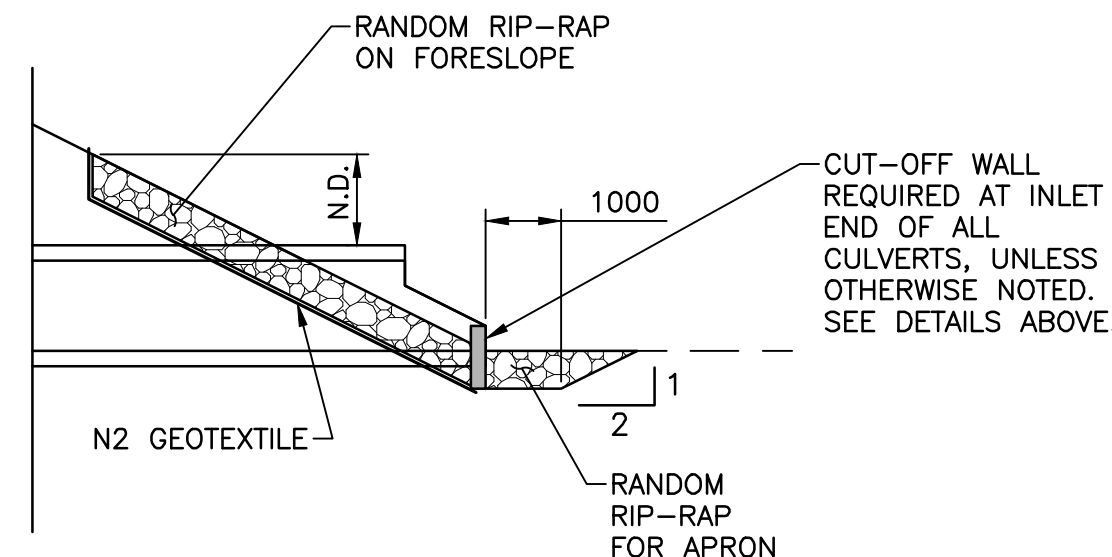
SECTION OF WC & DR CULVERT RIP-RAP INLET APRON

SCALE: 1:100



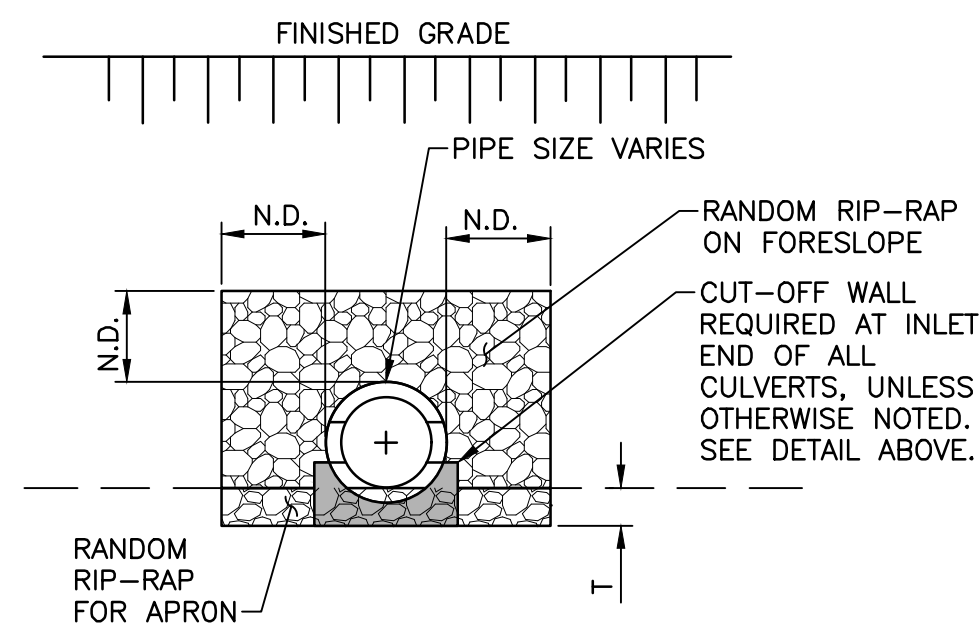
ELEVATION OF WC & DR CULVERT RIP-RAP INLET APRON

SCALE: 1:100



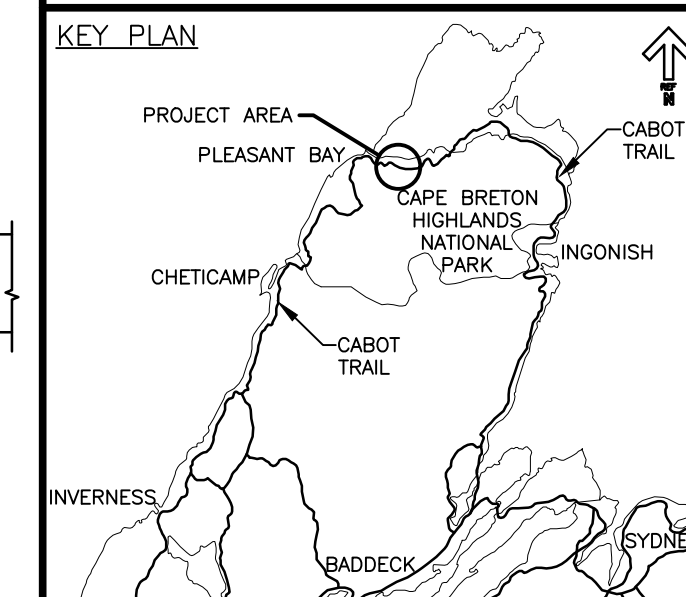
SECTION OF WC & DR CULVERT RIP-RAP OUTLET APRON

SCALE: 1:100



ELEVATION OF WC & DR CULVERT RIP-RAP OUTLET APRON

SCALE: 1:100



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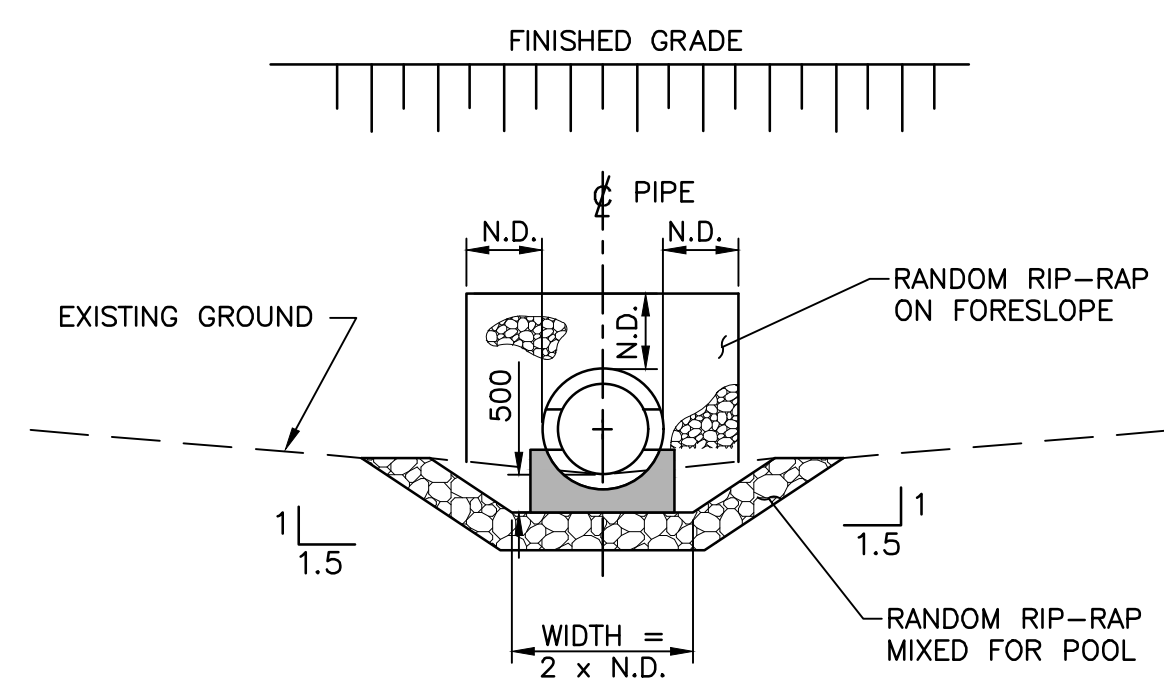
Tender Soumission
PCA Project Manager Administrateur de projets PCA

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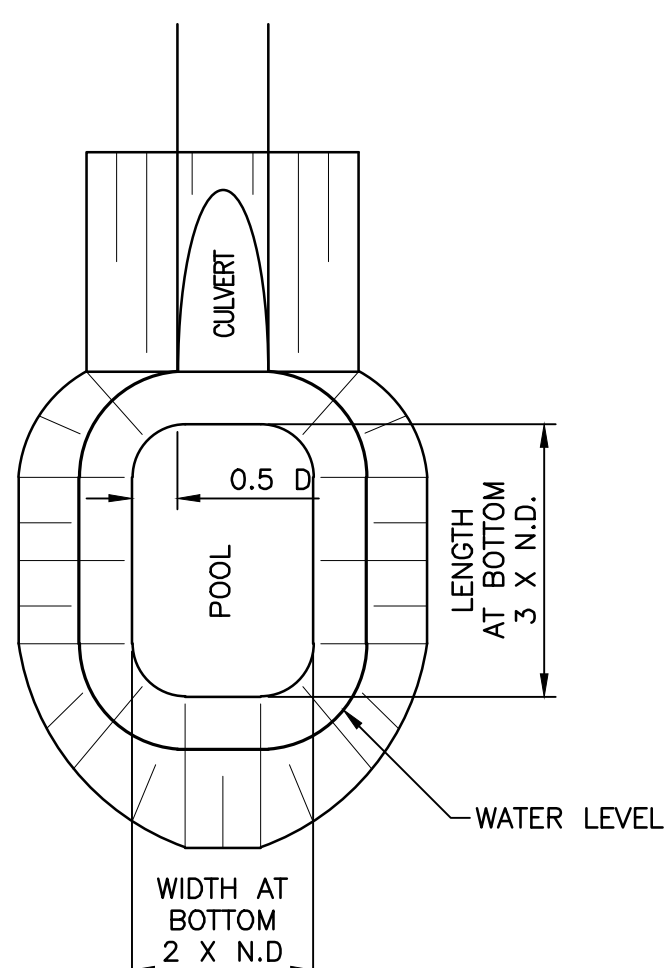
C-32



ELEVATION OF WC CULVERT RIP-RAP OUTLET POOL

SCALE: 1:100

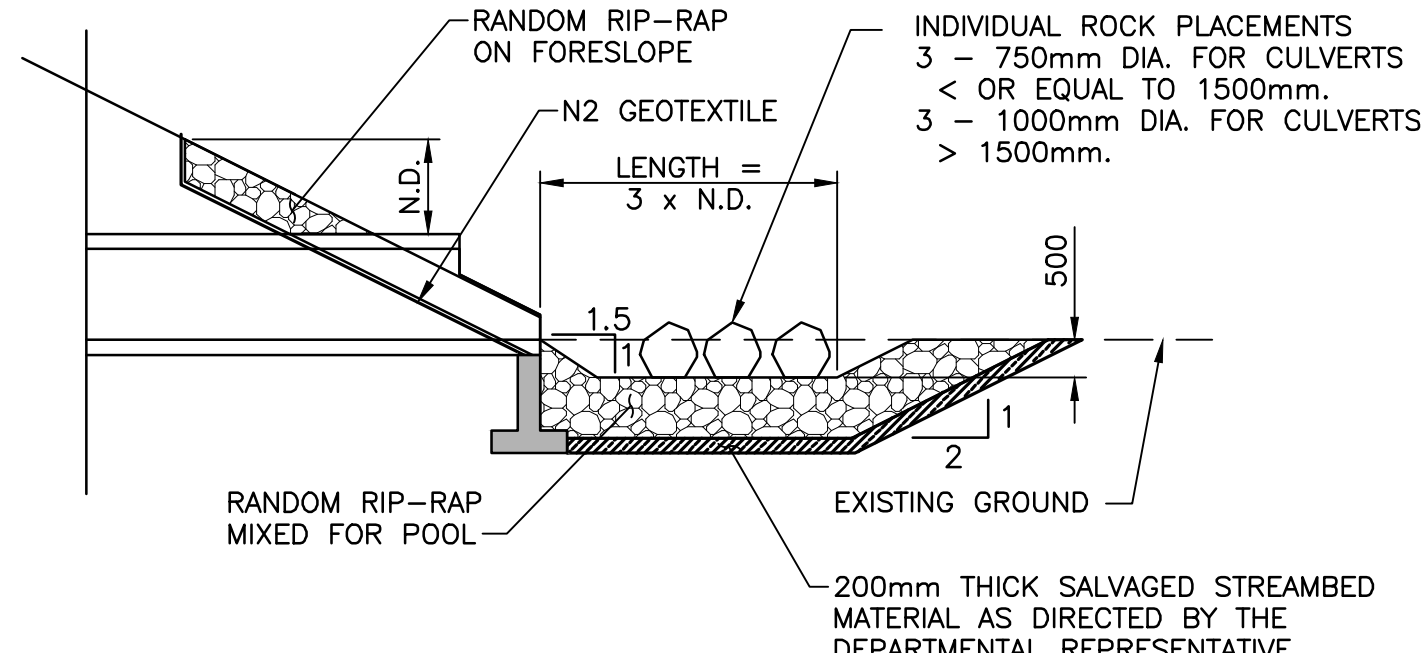
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



PLAN OF WC CULVERT RIP-RAP OUTLET POOL

SCALE: 1:100

0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m



SECTION OF WC CULVERT RIP-RAP OUTLET POOL

SCALE: 1:100

0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m

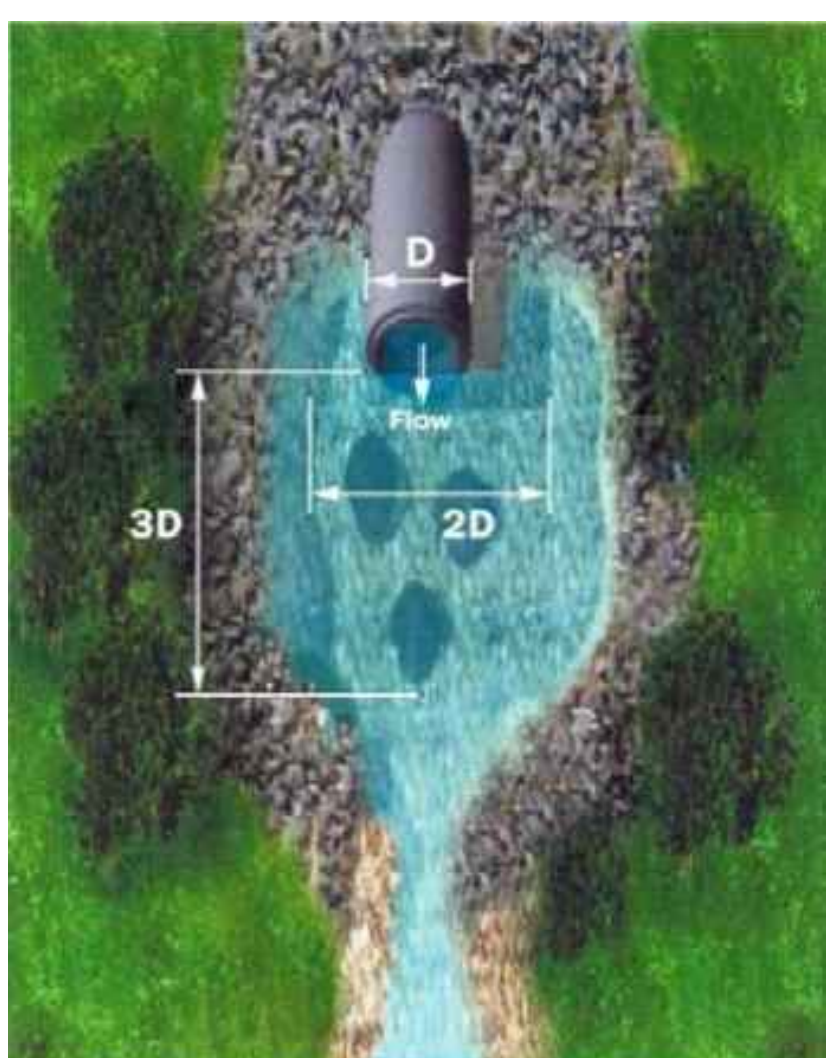
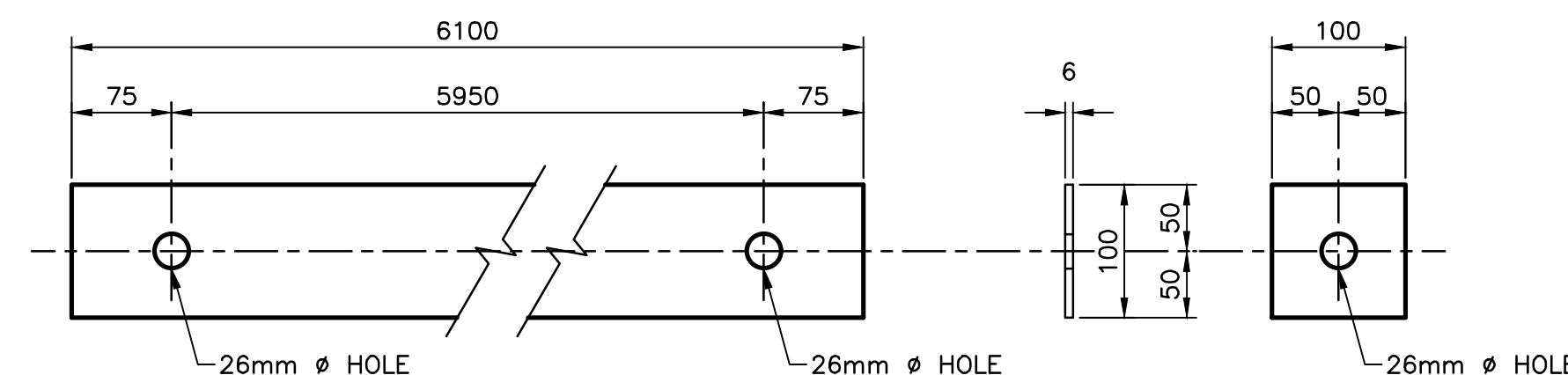
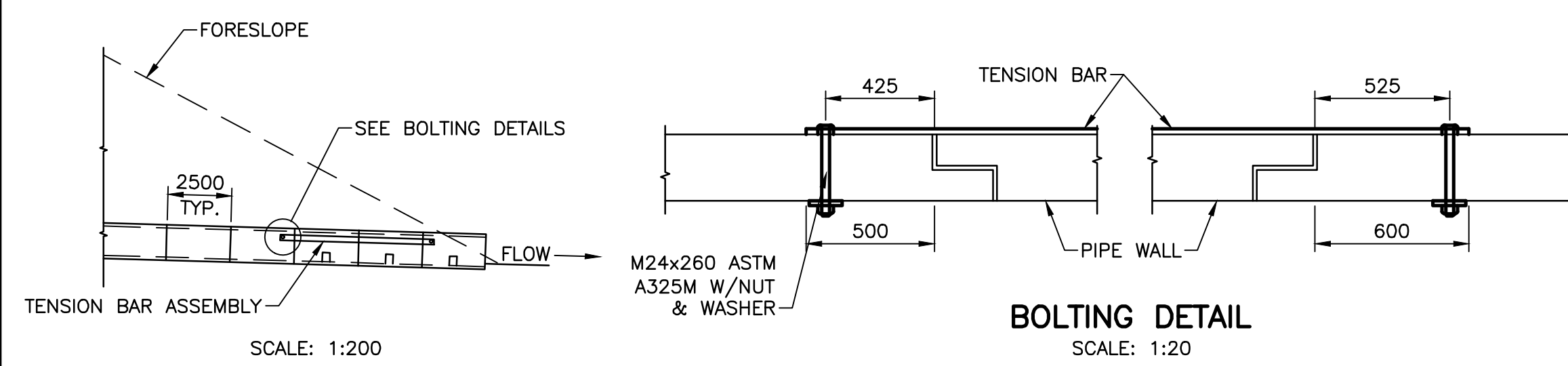


ILLUSTRATION OF OUTLET POOL

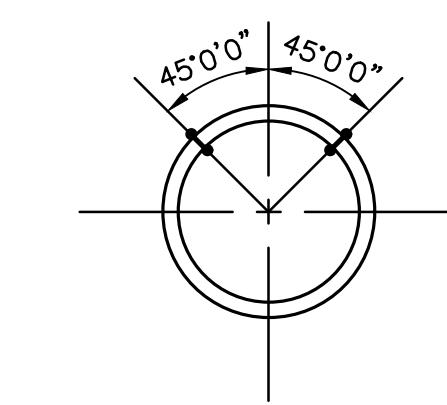
SOURCE: GUIDELINES FOR THE DESIGN OF FISH
PASSAGE FOR CULVERTS IN NOVA SCOTIA,
FISHERIES AND OCEANS CANADA, FEBRUARY 2015



TENSION BAR SCALE: 1:5

WASHER SCALE: 1:5

TENSION BAR ASSEMBLY



TENSION BAR PLACEMENT DETAIL

N.T.S.

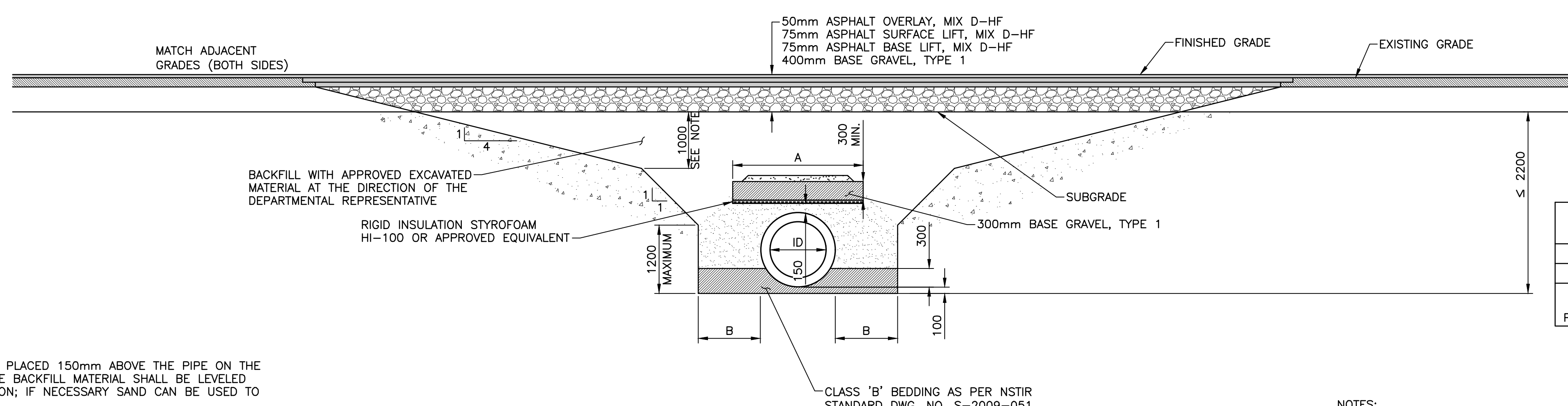
NOTES:

1. TENSION BARS TO SPAN LAST THREE JOINTS AT OUTLET.
2. STEEL SHALL BE PER CSA G40.12 300W.
3. TENSION BARS, NUTS AND WASHERS SHALL BE GALVANIZED PER CSA G164-M92, TO A MINIMUM MASS OF 610g/m².
4. BOLTS FOR TENSION BARS SHALL BE GALVANIZED M24x260 (SAE GRADE 5).
5. TENSION BAR SHALL BE USED AS TEMPLATE FOR CONTRACTOR TO FIELD DRILL HOLES IN INSTALLED PIPE.
6. NUTS SHALL NOT BE OVER TIGHTENED.
7. BOLT LENGTH PROTRUDING MORE THAN 25mm BEYOND TIGHTENED NUT SHALL BE CUT OFF FLUSH WITH NUT.

RIGID INSULATION WIDTH REQUIREMENTS	
PIPE DIAMETER, ID (INSIDE)	DIMENSION A
600	1500
900	2100
1050	1200
1500 - 1800	2700

NOTES:

1. THE RIGID INSULATION SHALL BE PLACED 150mm ABOVE THE PIPE ON THE BACKFILL MATERIAL. THE SURFACE BACKFILL MATERIAL SHALL BE LEVELED PRIOR TO PLACING THE INSULATION; IF NECESSARY SAND CAN BE USED TO LEVEL THE SURFACE.
2. RIGID INSULATION LENGTH SHALL EXTEND 1.0m PAST THE EDGE OF PAVED SHOULDER ON BOTH SIDES.
3. CONSTRUCTION OR HEAVY EQUIPMENT SHALL NOT OPERATE DIRECTLY ON THE RIGID INSULATION.
4. INSULATION SHALL BE BACKFILLED WITH A MINIMUM 300mm LIFT OF GRAVEL TYPE 1 COMPACTED TO 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY.



TRENCHING AND BACKFILLING AROUND STRUCTURES DETAIL

SCALE: 1:50

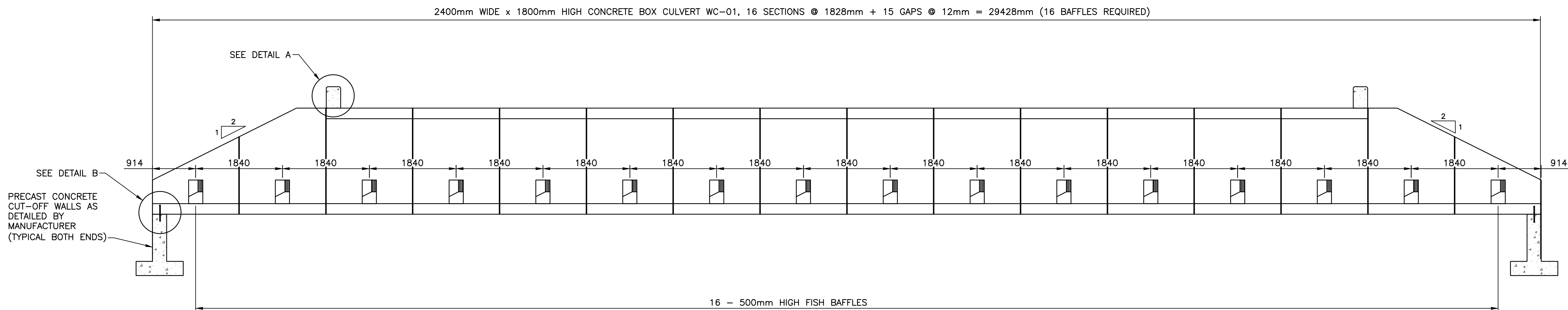
0m 1m 2m 3m 4m 5m

NOTES:

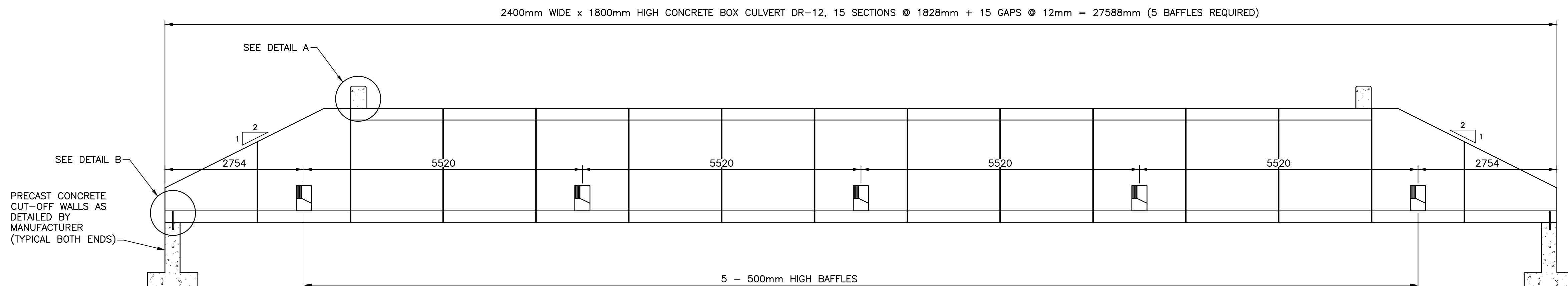
1. BACKFILL MATERIAL WITHIN 1000mm OF SUBGRADE SHALL BE THE SAME AS OR SIMILAR TO THAT WHICH COMPRISES THE ADJACENT SUBGRADE MATERIAL TO THE APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE.

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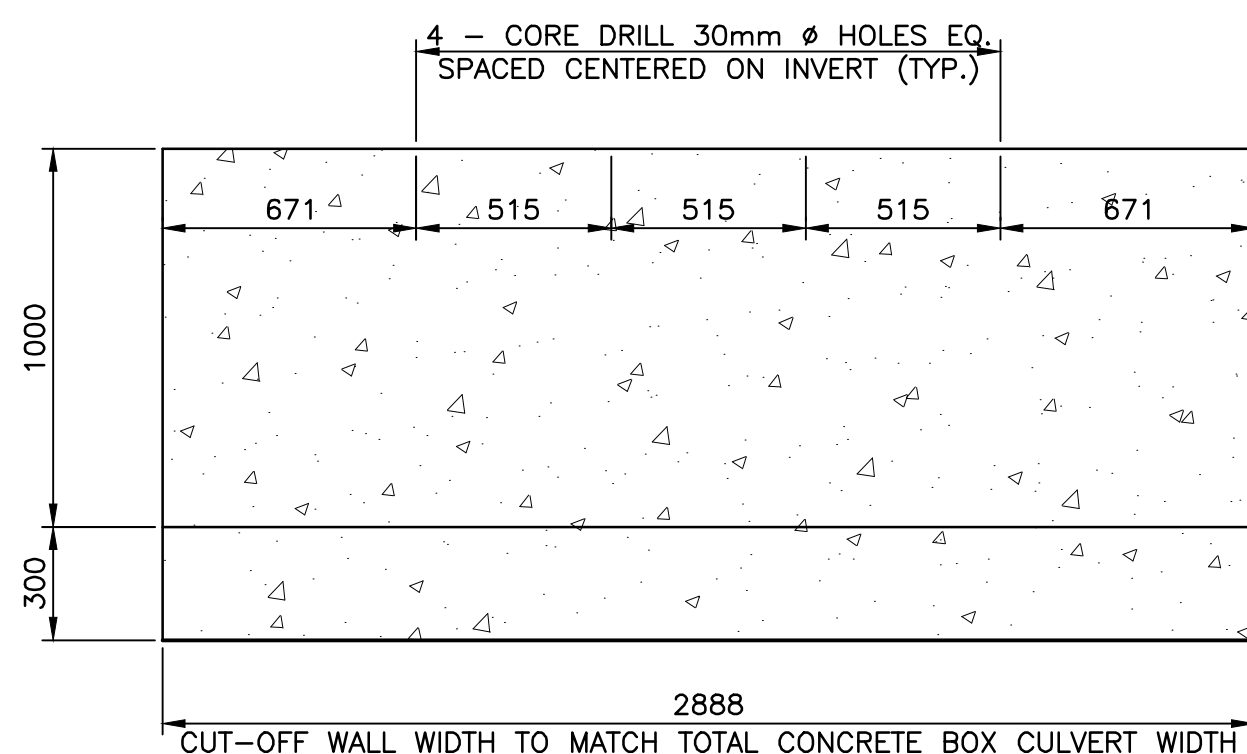
PWGSC A1 (2004)



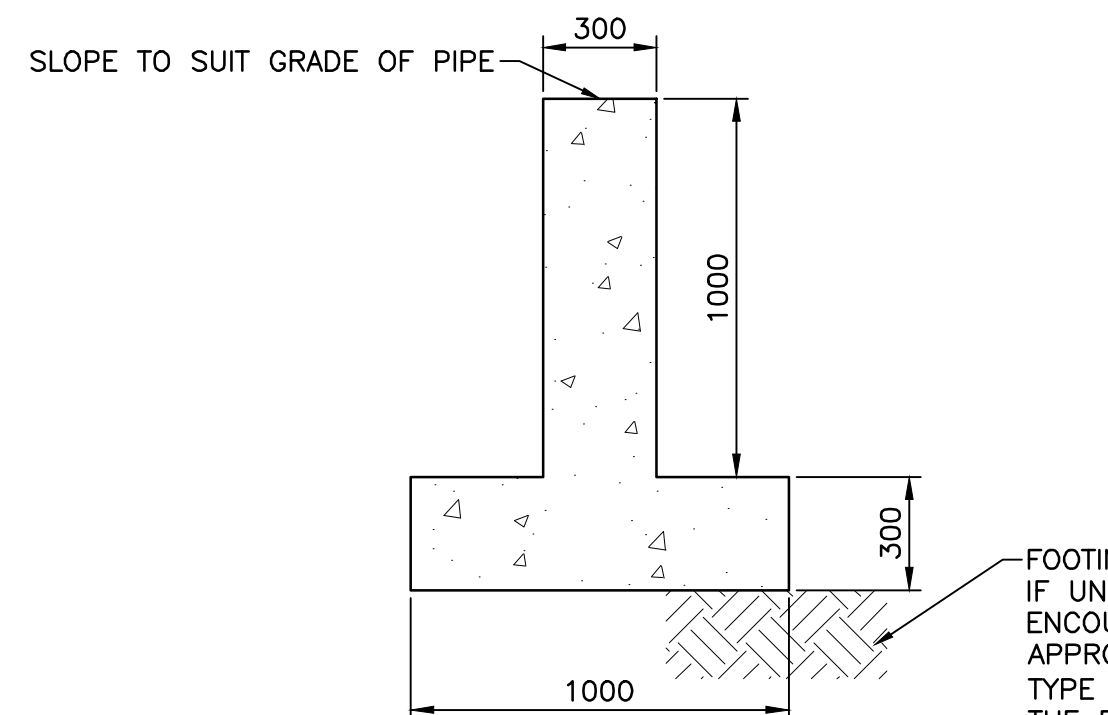
LONGITUDINAL PIPE SECTION (WC-01)
SCALE: 1:50



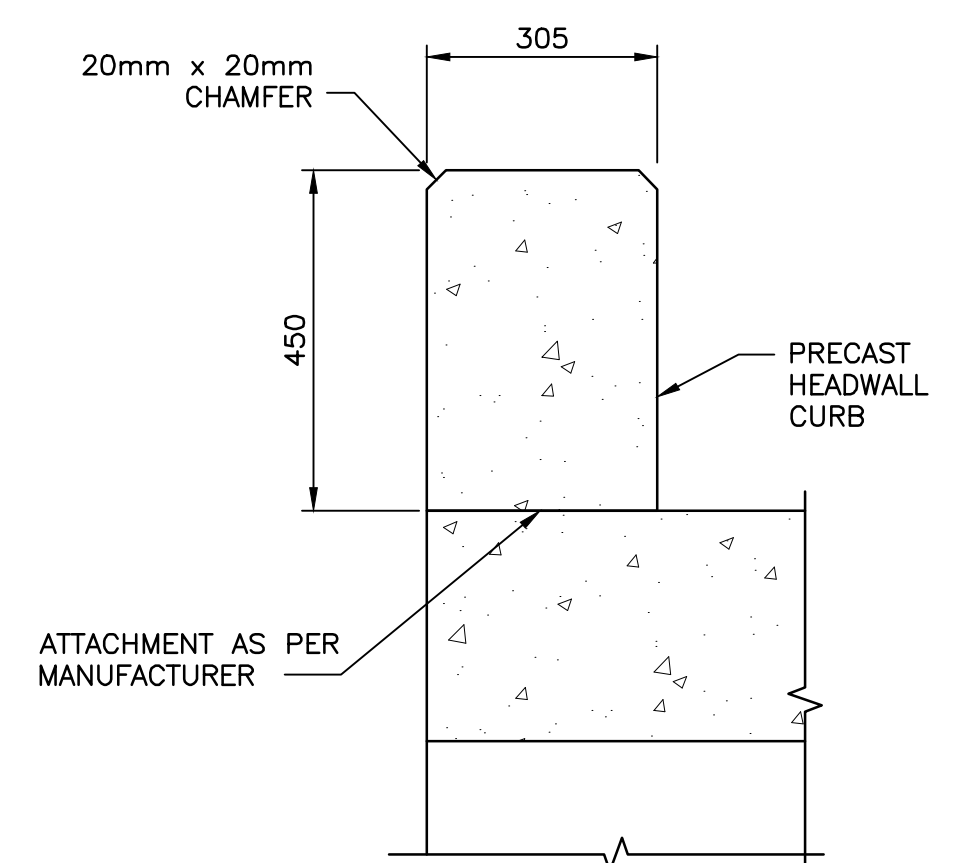
LONGITUDINAL PIPE SECTION (DR-12)
SCALE: 1:50



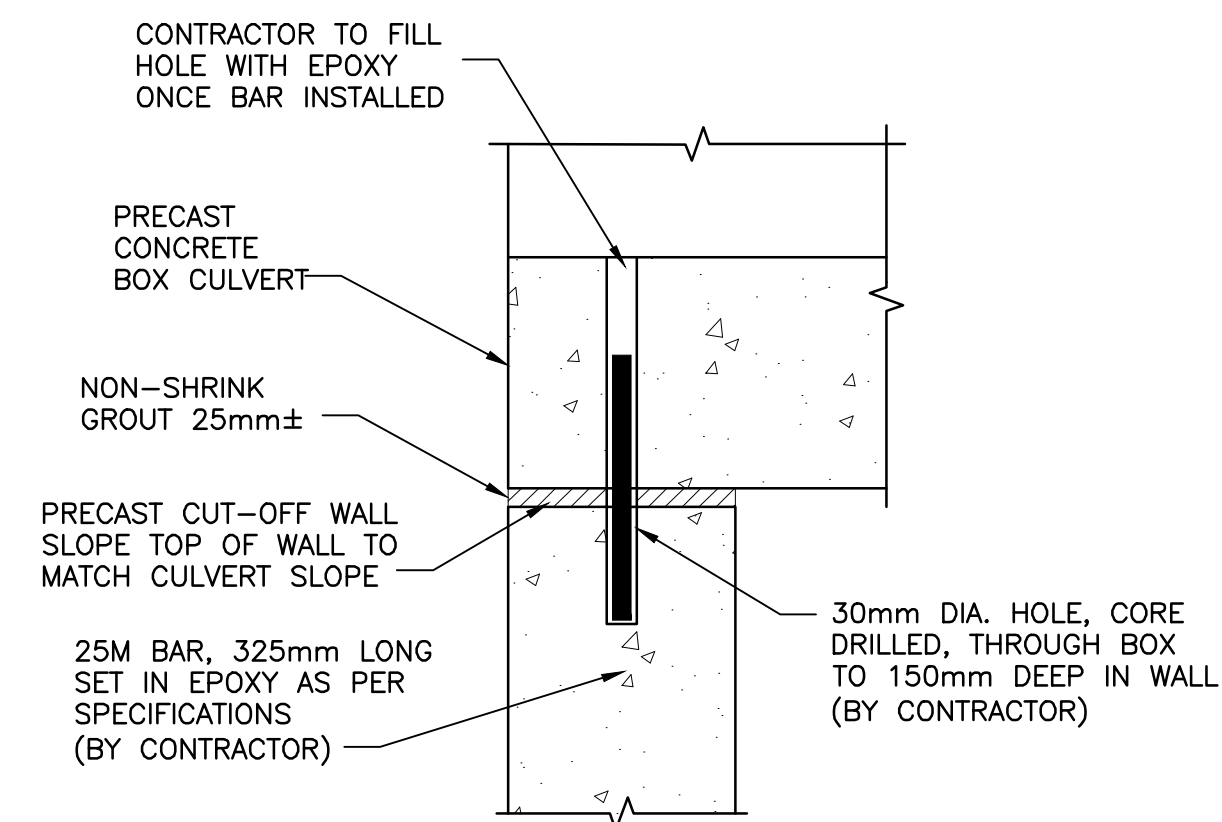
CUT-OFF WALL FRONT VIEW
SCALE: 1:20



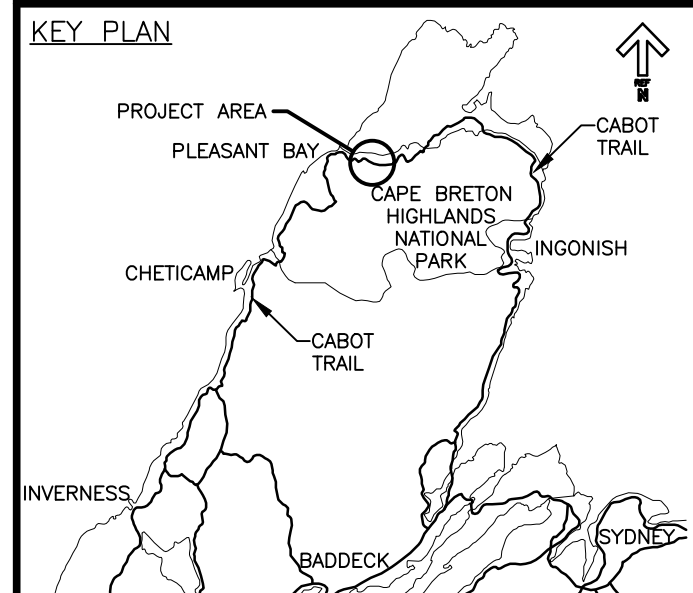
CUT-OFF WALL SIDE VIEW
SCALE: 1:20



**DETAIL 'A'
HEADWALL DETAIL**
SCALE: 1:10



**DETAIL 'B'
CUT-OFF WALL DETAIL**
SCALE: 1:10



0	ISSUED FOR TENDER	02/15 2019
revisions		date

project
**CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing
dessin

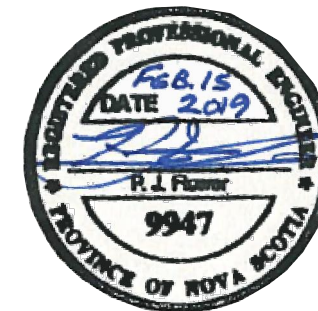
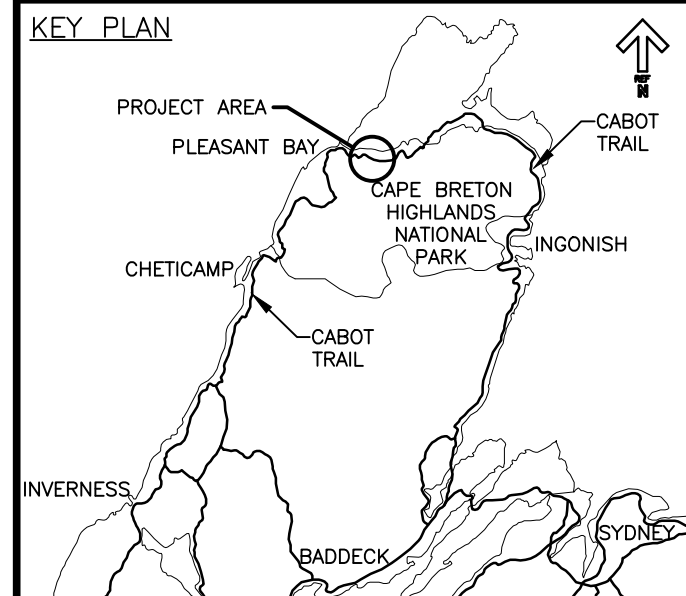
**PIPE SECTIONS
AND
HEADWALL DETAILS**

designed	RLJ/PJF	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet

1114

drawing no. no. du dessin

C-33



0	ISSUED FOR TENDER	02/15 2019
revisions		date

project CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing dessin

HEADWALL AND CUT-OFF WALL DETAILS

designed RLJ/PJF	conçu
date MAY. 31, 2018	
drawn JLD/CCP	dessiné
date MAY. 31, 2018	
approved RMB	approuvé
date FEB. 15, 2019	

Tender PCA Project Manager
Soumission Administrateur de projets PCA

project number no. du projet

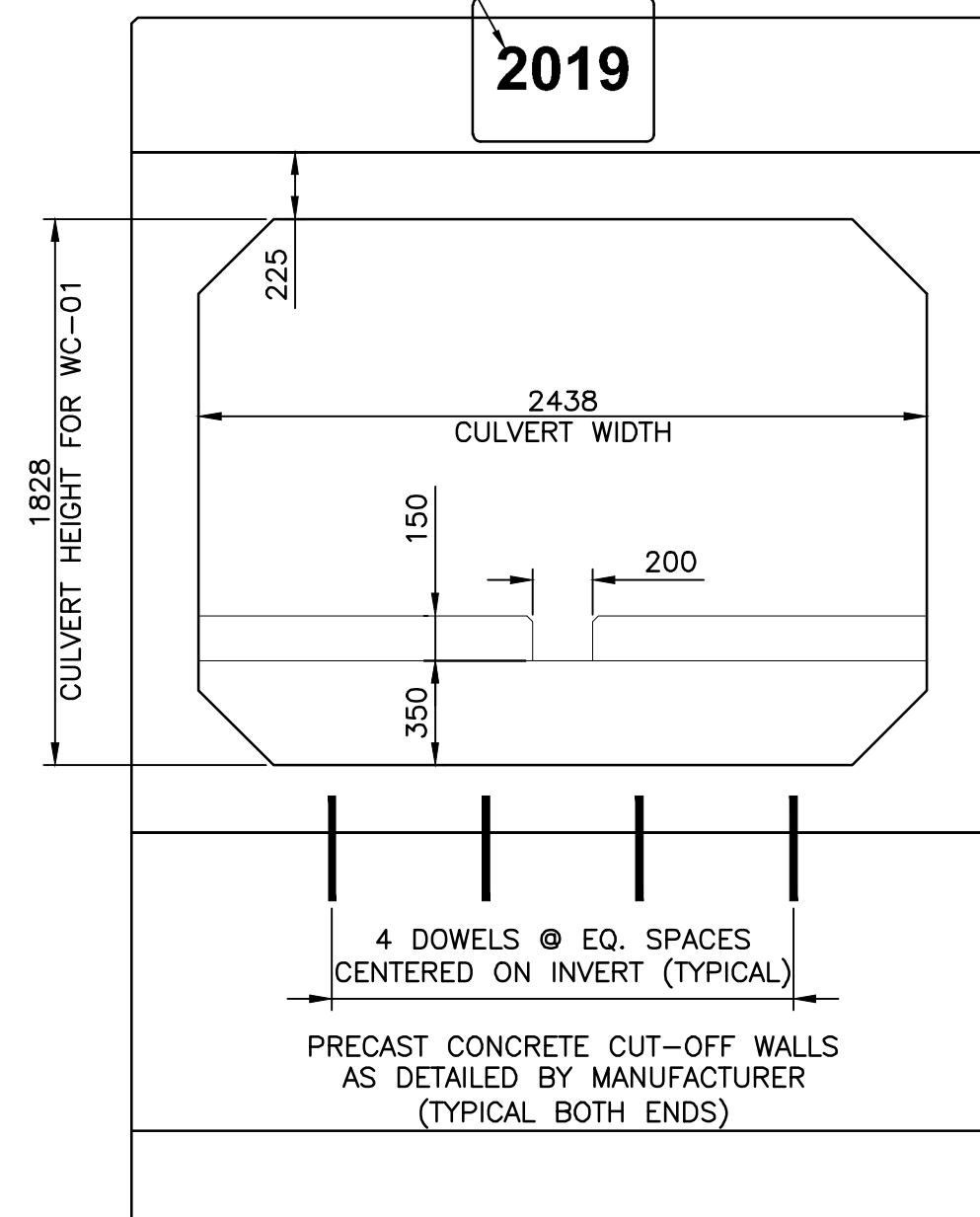
1114

drawing no. no. du dessin

C-34

DATE BOX BY MANUFACTURER
AT BOTH ENDS (TYPICAL)

SEE DETAIL A/33

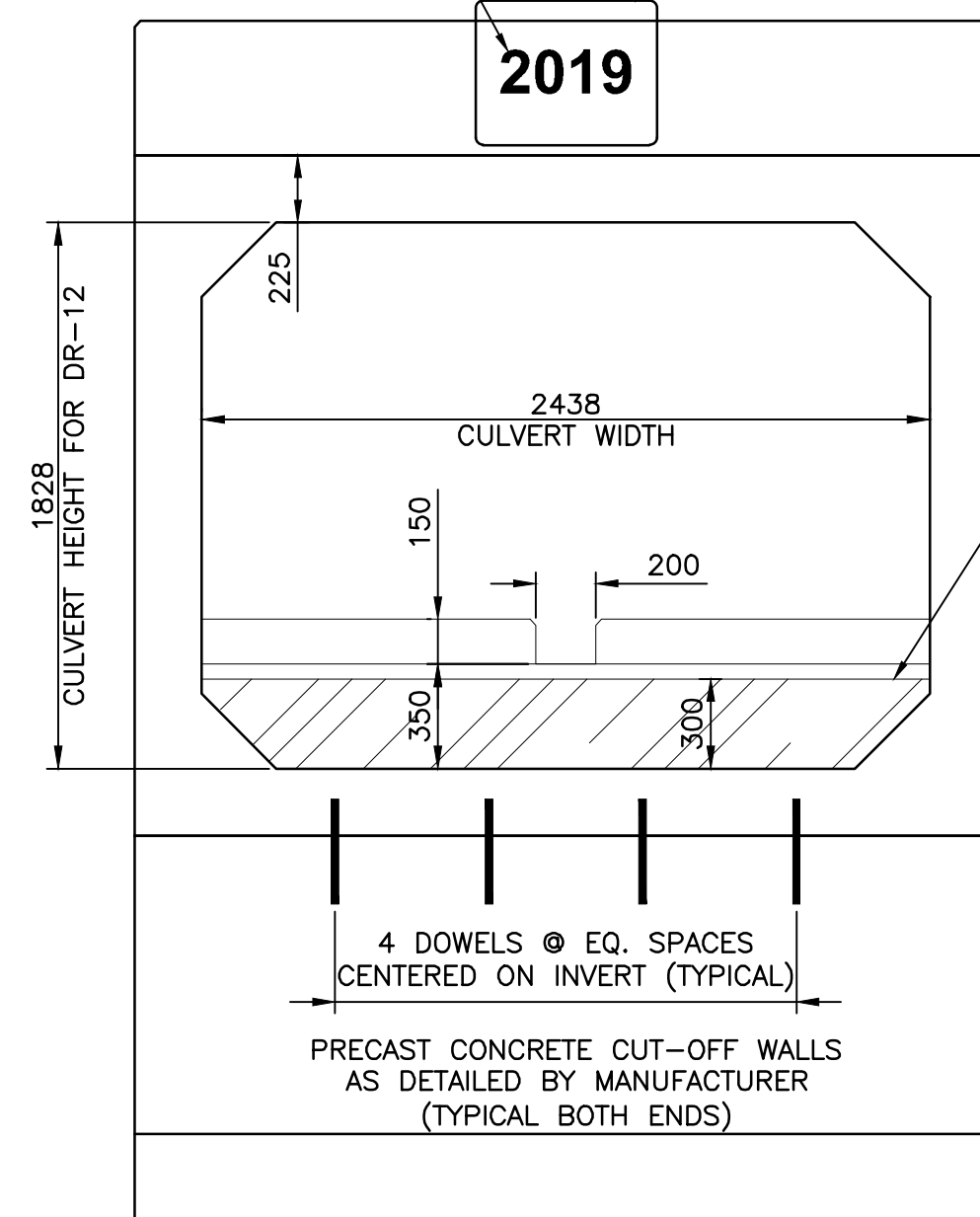


BOX CULVERT END ELEVATION (WC-01)

SCALE: 1:25
0mm 500mm 1000mm 1500mm 2000mm 2500mm

DATE BOX BY MANUFACTURER
AT BOTH ENDS (TYPICAL)

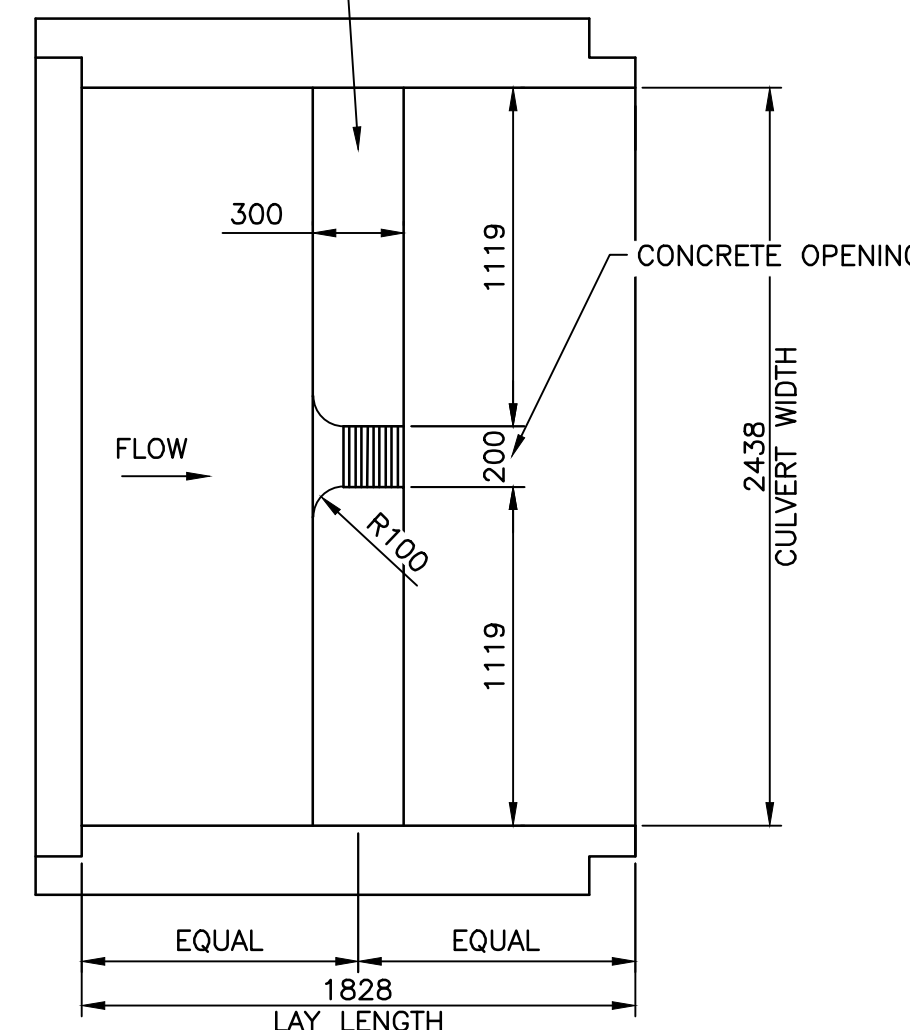
SEE DETAIL A/33



BOX CULVERT END ELEVATION (DR-12)

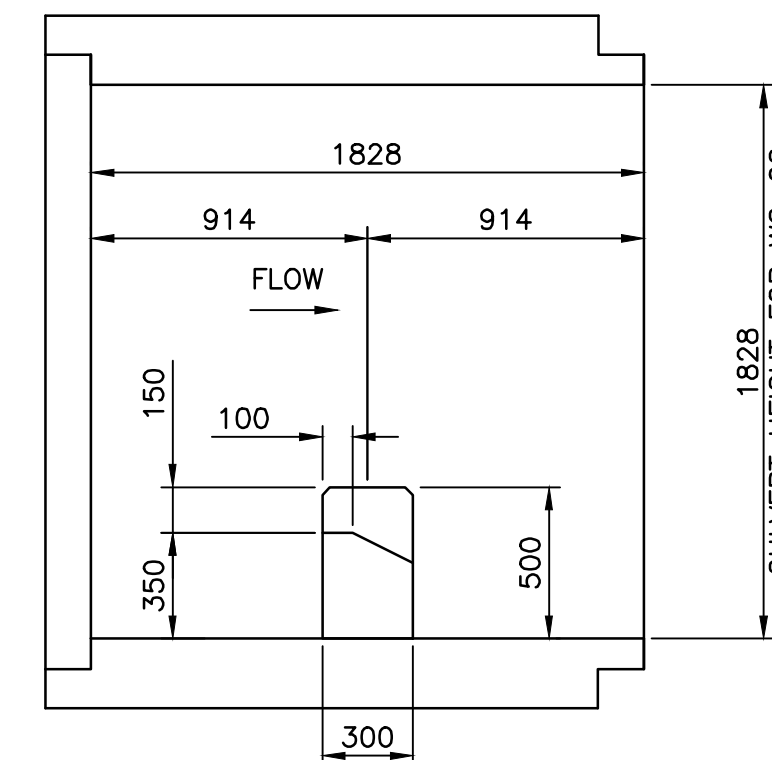
SCALE: 1:25
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300mm WIDE x 500mm HIGH
PRECAST CONCRETE BAFFLE



BAFFLE PLAN

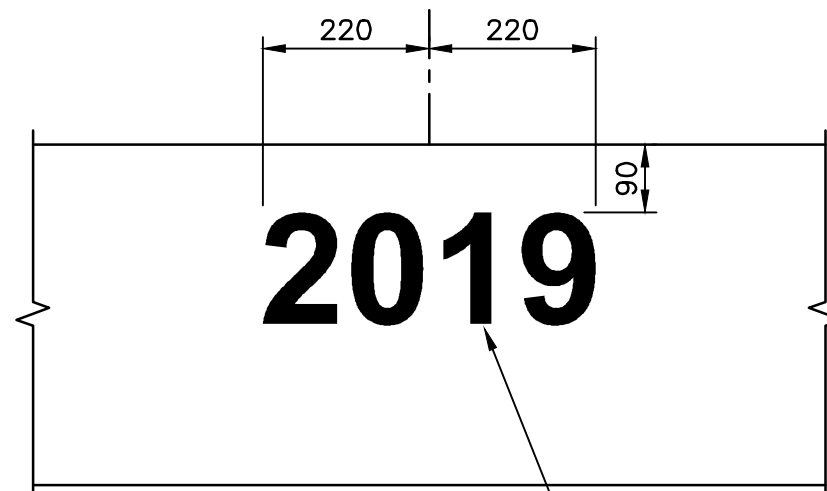
SCALE: 1:25
0mm 500mm 1000mm 1500mm 2000mm 2500mm



BAFFLE SECTION

SCALE: 1:25
0mm 500mm 1000mm 1500mm 2000mm 2500mm

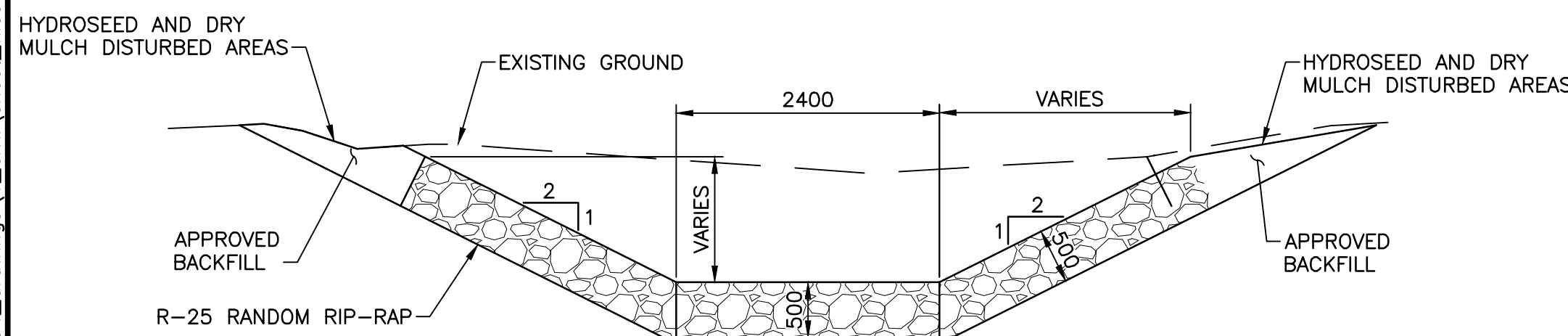
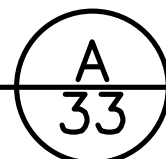
OF HEADWALL



PRODUCTION YEAR TO BE
EMBEDDED IN HELVETICA NEUE 75
BOLD FONT BY MANUFACTURER

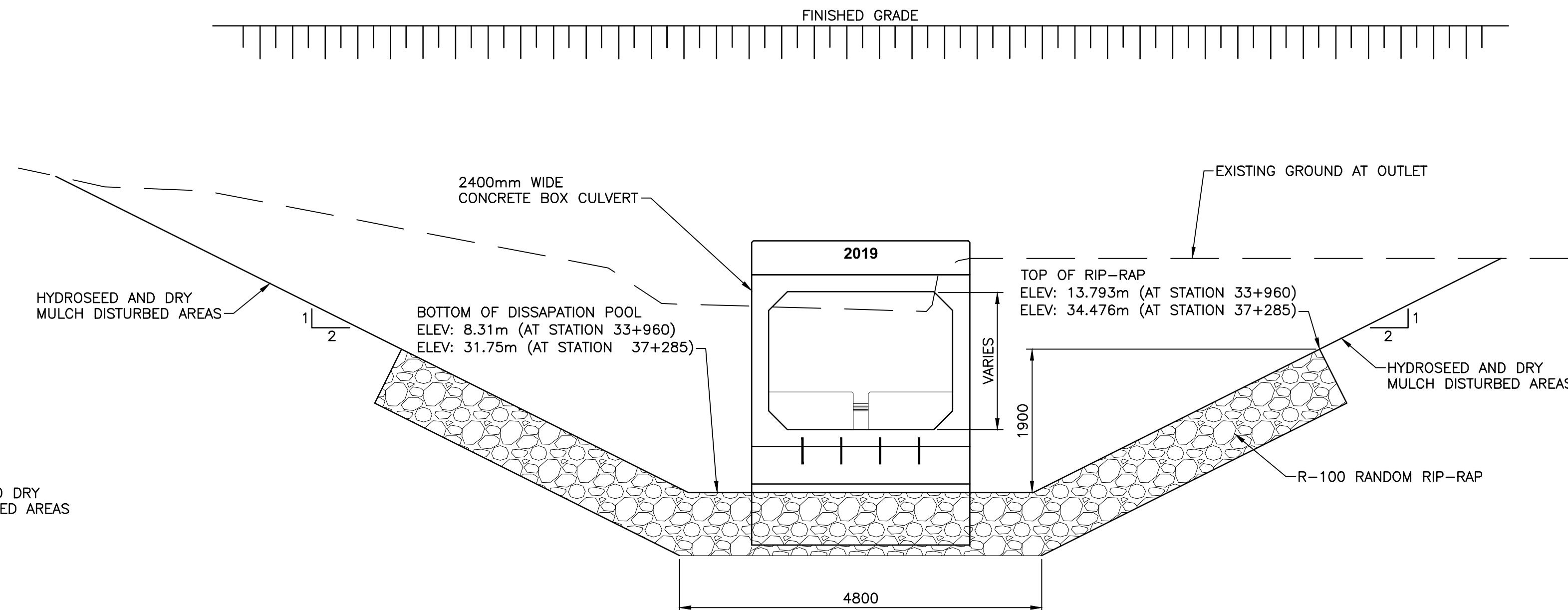
DATE STAMP DETAIL

SCALE: 1:10
0mm 100 200 300 400 500 600 700 800 900 1000mm



INLET CHANNEL SECTION

SCALE: 1:50
0m 1m 2m 3m 4m 5m



PIPE OUTLET SECTION & POOL

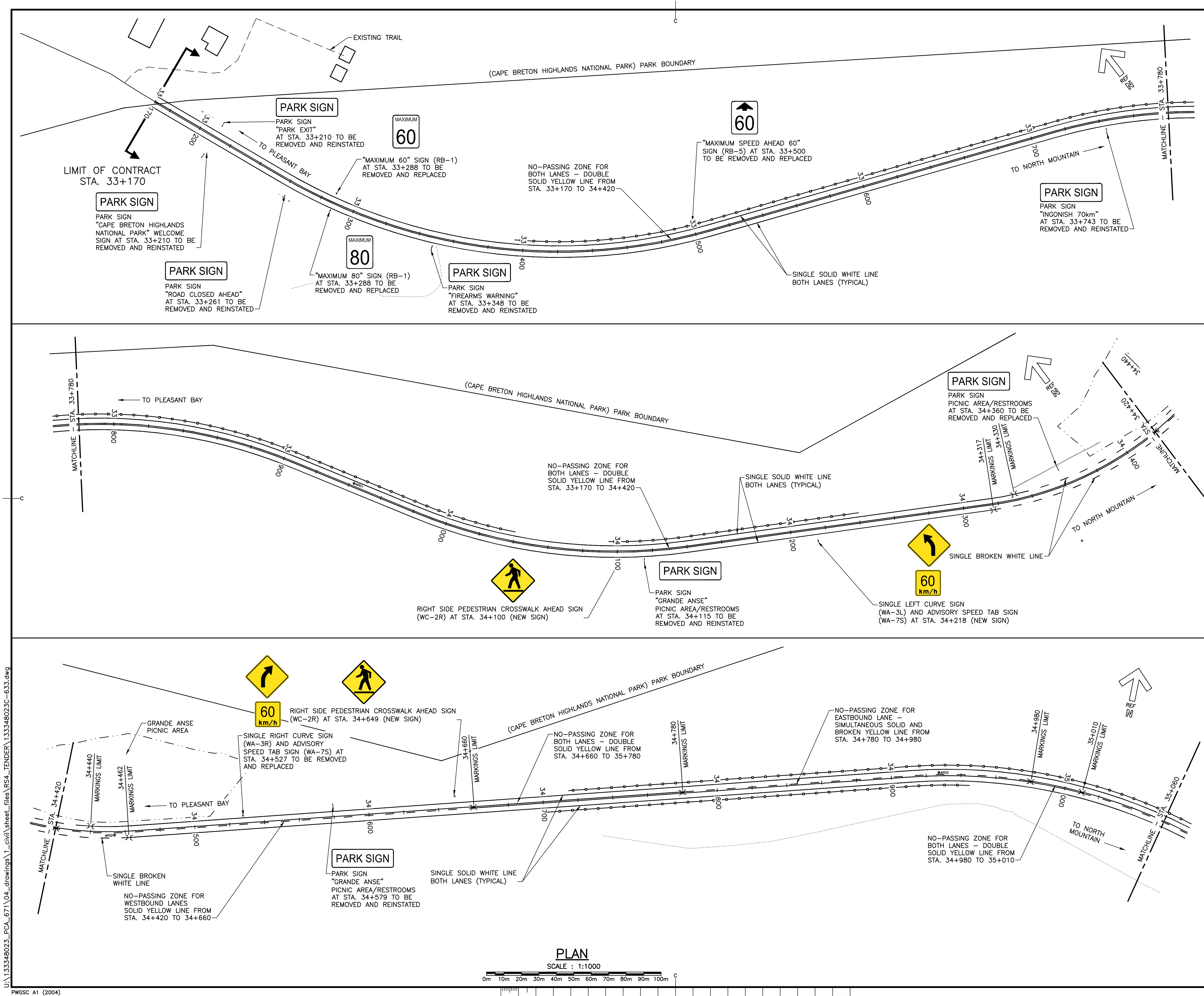
SCALE: 1:50
0m 1m 2m 3m 4m 5m

0 10 20mm 40 60 80 100 120 140 160 180 200mm

C

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PWSC A1 (2004)



KEY PLAN

LEGEND

II LIMIT OF MARKINGS

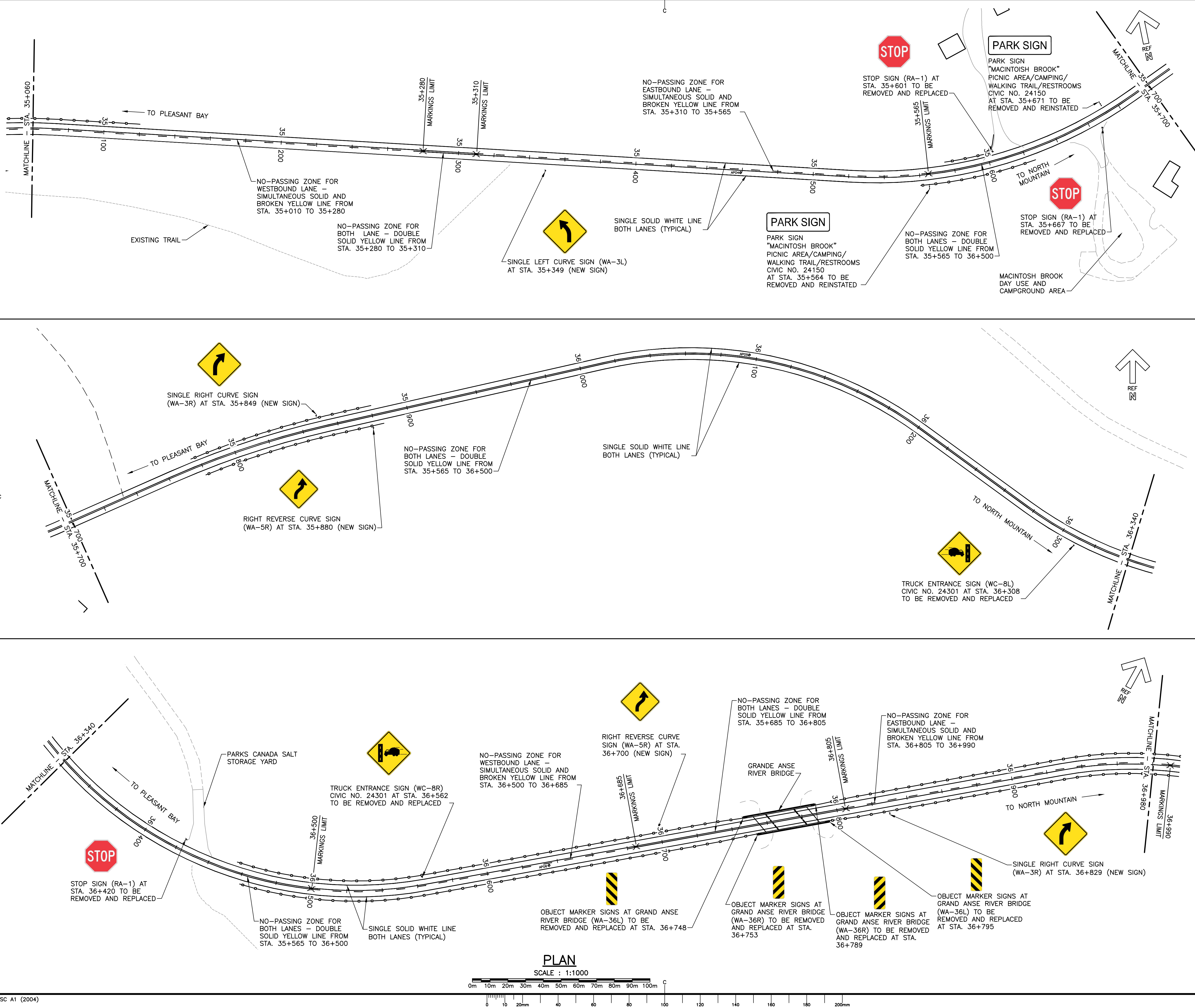
NOTES:


1. PARK INFORMATION SIGNS TO BE SUPPLIED BY PARKS CANADA, CONTRACTOR TO INSTALL.
2. REGULATORY AND WARNING SIGNS TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.
3. ALL REGULATORY AND WARNING SIGNS ARE TO BE REMOVED AND REPLACED c/w NEW POSTS.
4. ALL PARK INFORMATION SIGNS ARE TO BE REMOVED, STORED AND REINSTATED ON NEW POSTS AT THE DIRECTION OF THE DEPARTMENTAL REPRESENTATIVE.
5. CONTRACTOR TO SUPPLY AND INSTALL ALL PAVEMENT LINE MARKINGS.
6. ALL PAVEMENT MARKINGS TO CONFORM TO NSTIR STANDARD SPECIFICATION - (LATEST EDITION) - DIVISION 6 - SECTION 6.
7. PAVEMENT MARKINGS SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED AND APPROVED ON SITE BY THE DEPARTMENTAL REPRESENTATIVE.
8. ALL TRAFFIC MARKINGS SHALL BE IN ACCORDANCE WITH THE TRANSPORTATION ASSOCIATION OF CANADA (TAC) MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND SPECIFICATIONS.

0	ISSUED FOR TENDER	02/15 2019
revisions		date
project		projet
CABOT TRAIL REHABILITATION PLEASANT BAY TO NORTH MOUNTAIN CAPE BRETON HIGHLANDS NATIONAL PARK		
drawing		dessin
SIGNAGE AND PAVEMENT MARKING PLANS STA. 33+170 TO STA. 35+060		
designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet
1114		
drawing no.		no. du dessin
C-35		

E-DRM/GDD-E: NOT IN SYSTEM

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PWSC A1 (2004)

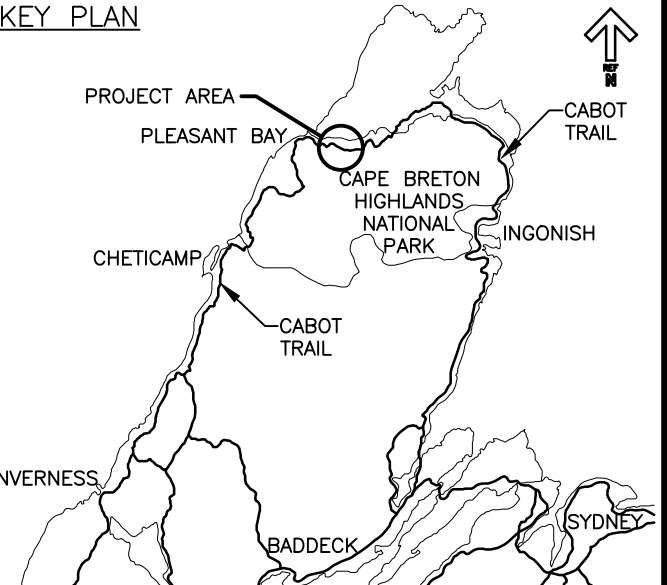





Parks
Canada

Parcs
Canada

KEY PLAN






LEGEND

II LIMIT OF MARKINGS

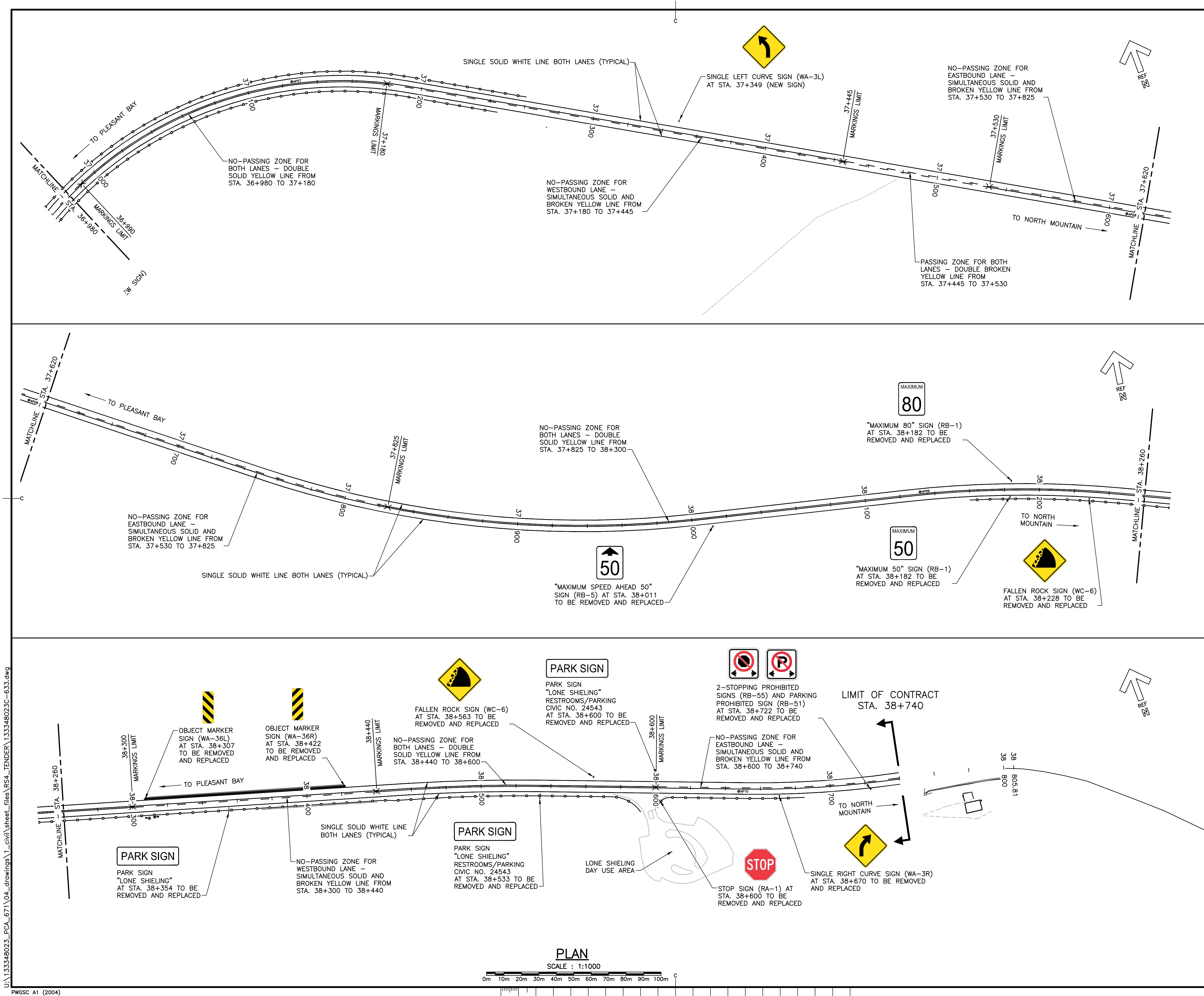
NOTES:

1. PARK INFORMATION SIGNS TO BE SUPPLIED BY PARKS CANADA, CONTRACTOR TO INSTALL.
2. REGULATORY AND WARNING SIGNS TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.
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0	ISSUED FOR TENDER	02/15 2019
revisions		date
project		projct
CABOT TRAIL REHABILITATION PLEASANT BAY TO NORTH MOUNTAIN CAPE BRETON HIGHLANDS NATIONAL PARK		
drawing		dessin
SIGNAGE AND PAVEMENT MARKING PLANS STA. 35+060 TO STA. 36+980		
designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet
1114		
drawing no.		no. du dessin
C-36		
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PWSC A1 (2004)



Parks
Canada

Parcs
Canada

KEY PLAN

LEGEND

II LIMIT OF MARKINGS

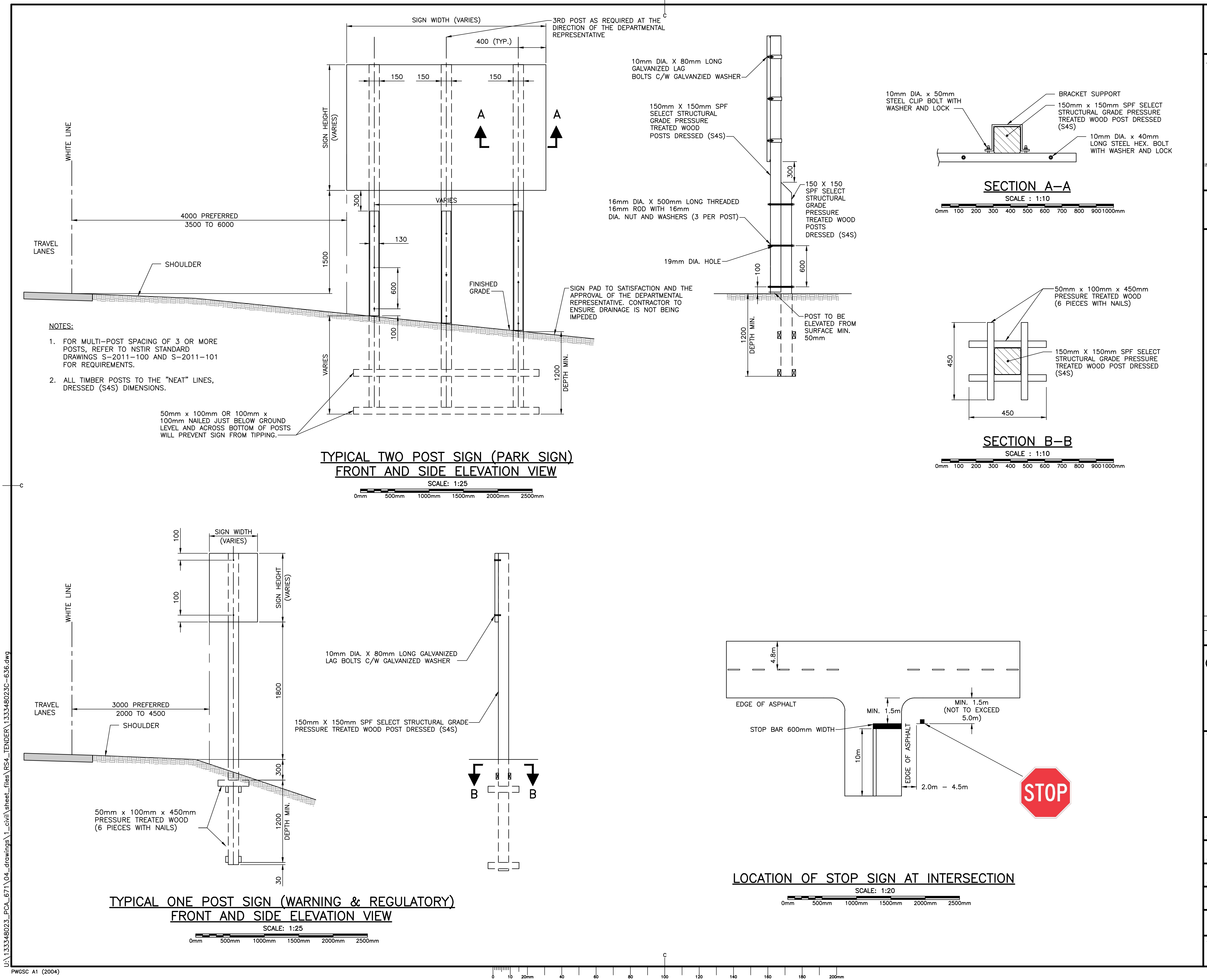
NOTES:

1. PARK INFORMATION SIGNS TO BE SUPPLIED BY PARKS CANADA, CONTRACTOR TO INSTALL.
2. REGULATORY AND WARNING SIGNS TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.
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4. ALL PARK INFORMATION SIGNS ARE TO BE REMOVED, STORED AND REINSTATED ON NEW POSTS AT THE DIRECTION OF THE DEPARTMENTAL REPRESENTATIVE.
5. CONTRACTOR TO SUPPLY AND INSTALL ALL PAVEMENT LINE MARKINGS
6. ALL PAVEMENT MARKINGS TO CONFORM TO NSTIR STANDARD SPECIFICATION - (LATEST EDITION) - DIVISION 6 - SECTION 6.
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8. ALL TRAFFIC MARKINGS SHALL BE IN ACCORDANCE WITH THE TRANSPORTATION ASSOCIATION OF CANADA (TAC) MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND SPECIFICATIONS.

0	ISSUED FOR TENDER	02/15 2019
revisions		date
project		project
CABOT TRAIL REHABILITATION PLEASANT BAY TO NORTH MOUNTAIN CAPE BRETON HIGHLANDS NATIONAL PARK		
drawing		dessin
SIGNAGE AND PAVEMENT MARKING PLANS STA. 36+980 TO STA. 38+740		
designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet
	1114	
drawing no.		no. du dessin
	C-37	

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Parks CanadaParcs Canada

KEY PLAN

0	ISSUED FOR TENDER	02/15 2019
revisions		date
project	project	
CABOT TRAIL REHABILITATION PLEASANT BAY TO NORTH MOUNTAIN CAPE BRETON HIGHLANDS NATIONAL PARK		
drawing	dessin	
SIGNAGE AND PAVEMENT MARKING DETAILS		
designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	
Tender	Soumission	
PCA Project Manager	FEB. 15, 2019 Administrateur de projets PCA	
project number	no. du projet	
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drawing no.	no. du dessin	
C-38		

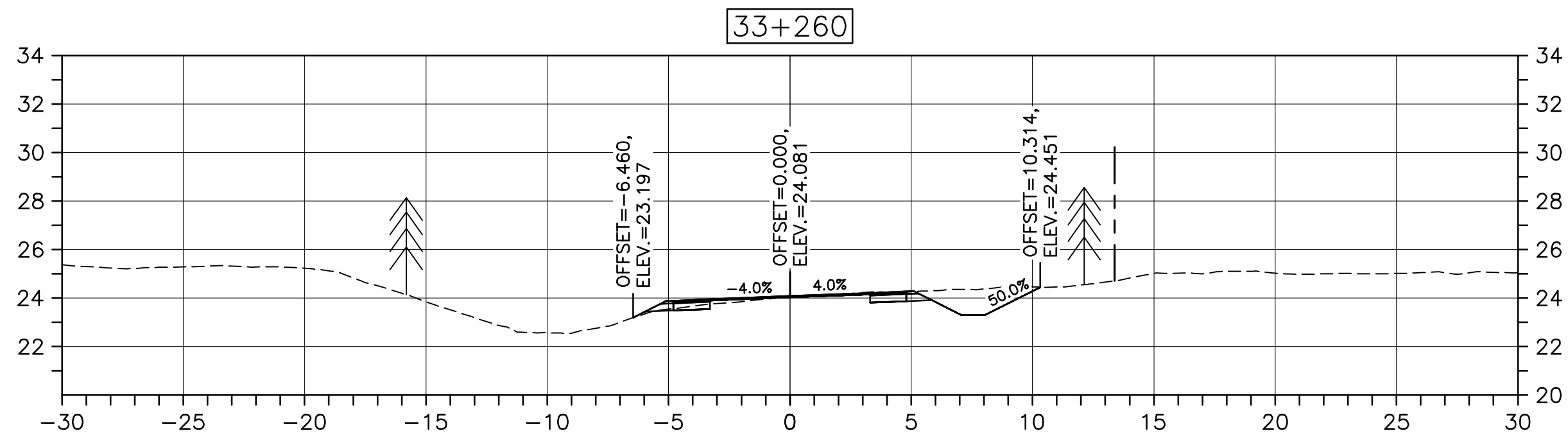
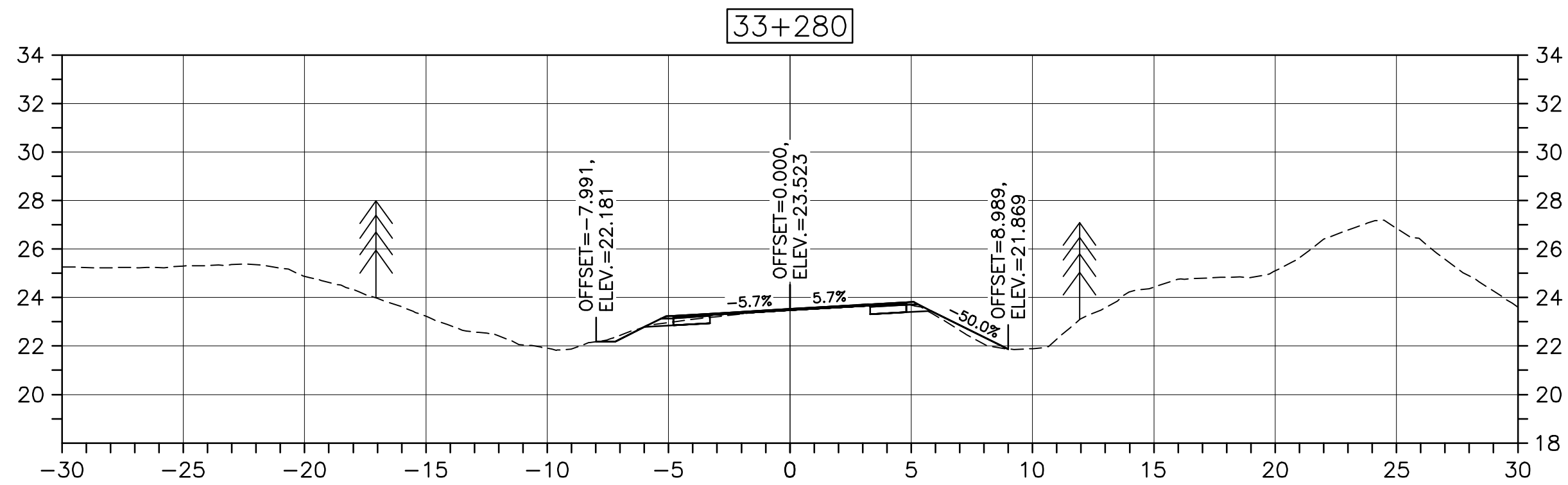
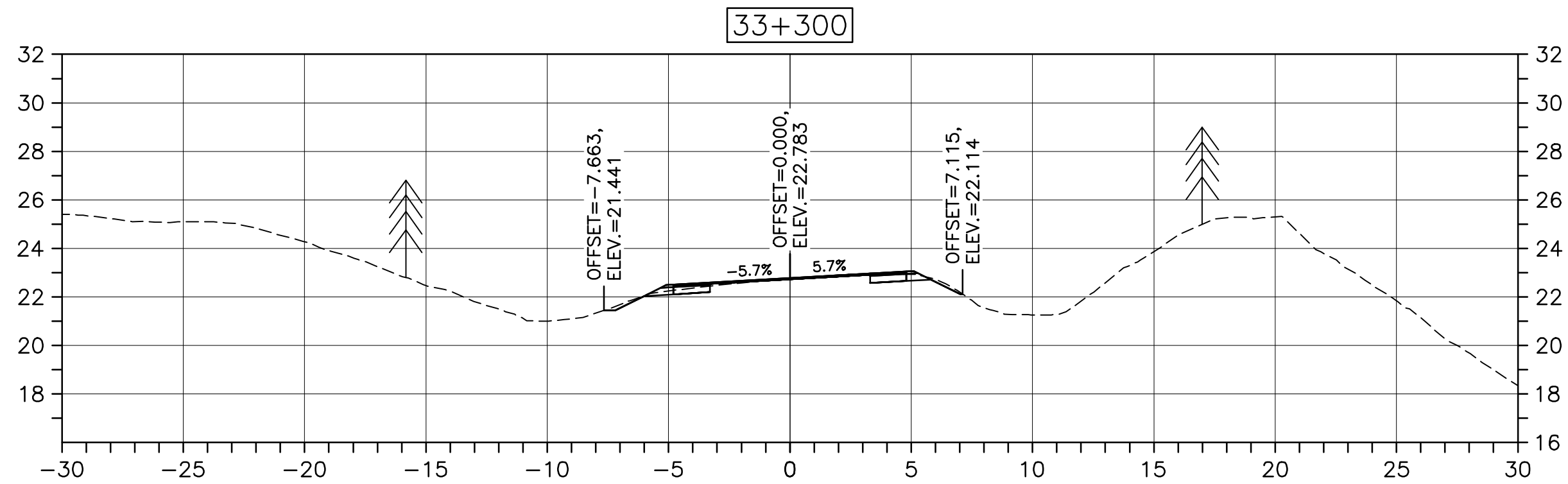
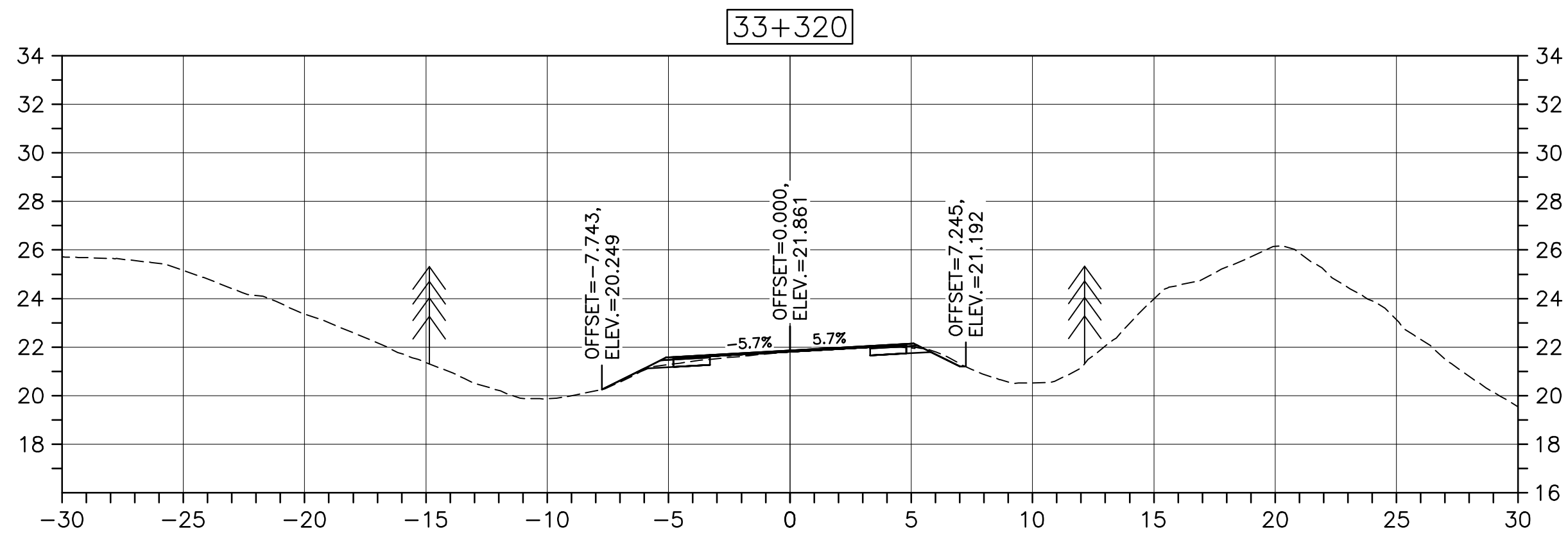
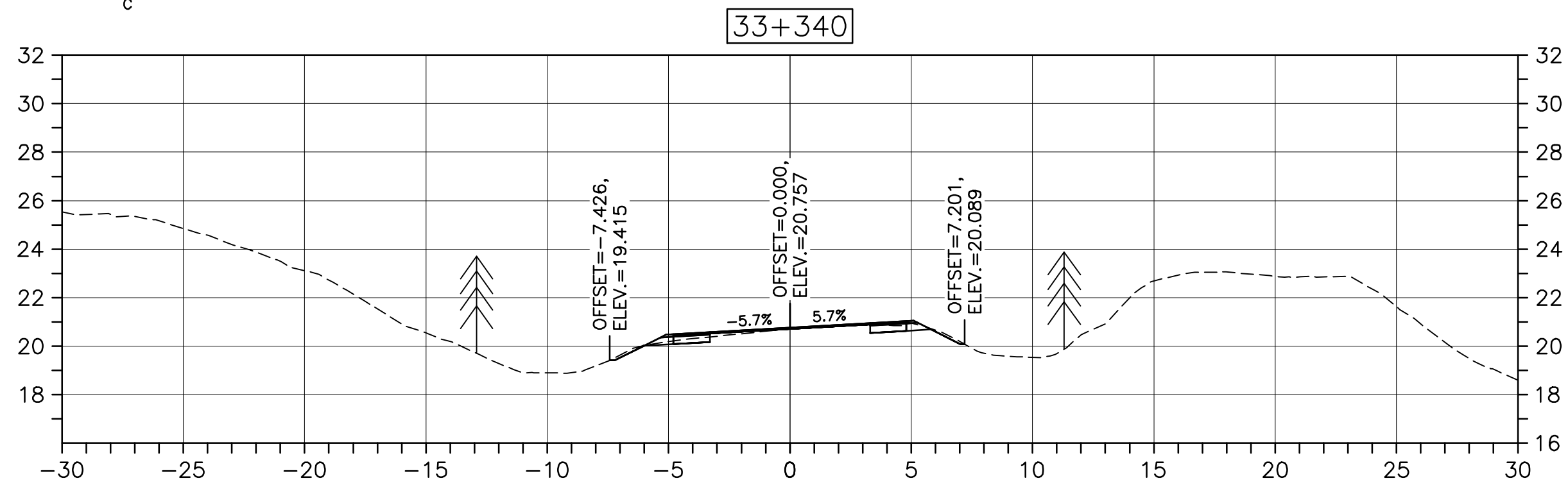
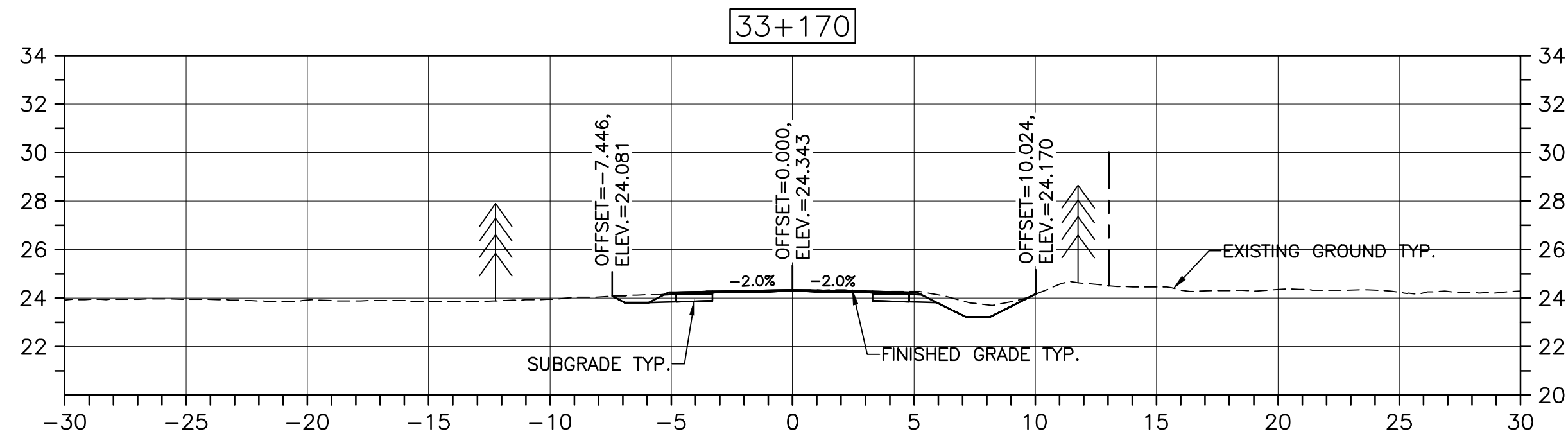
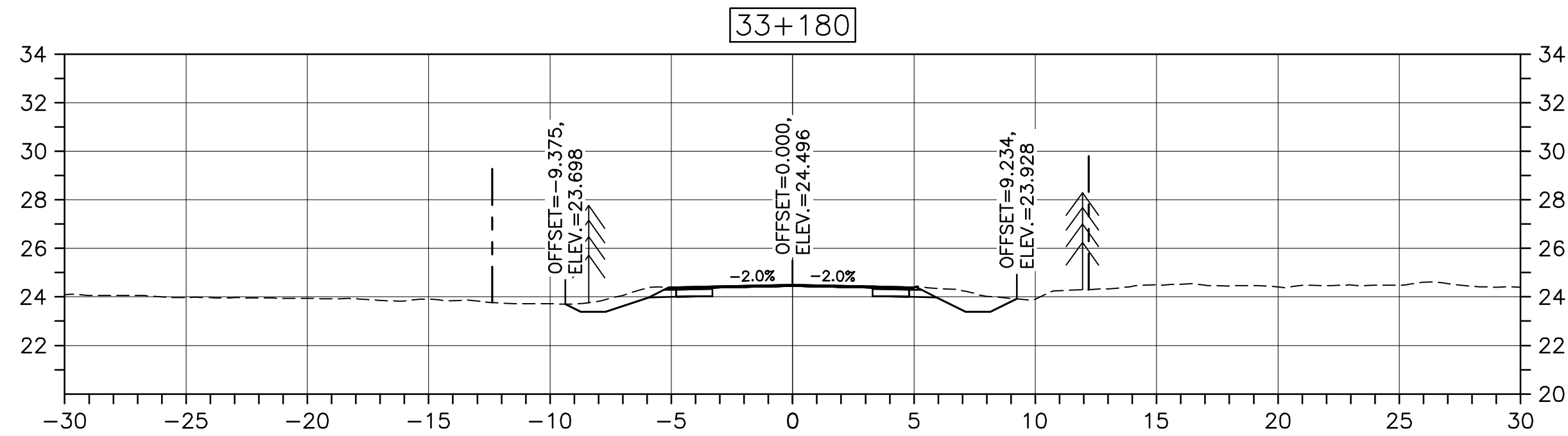
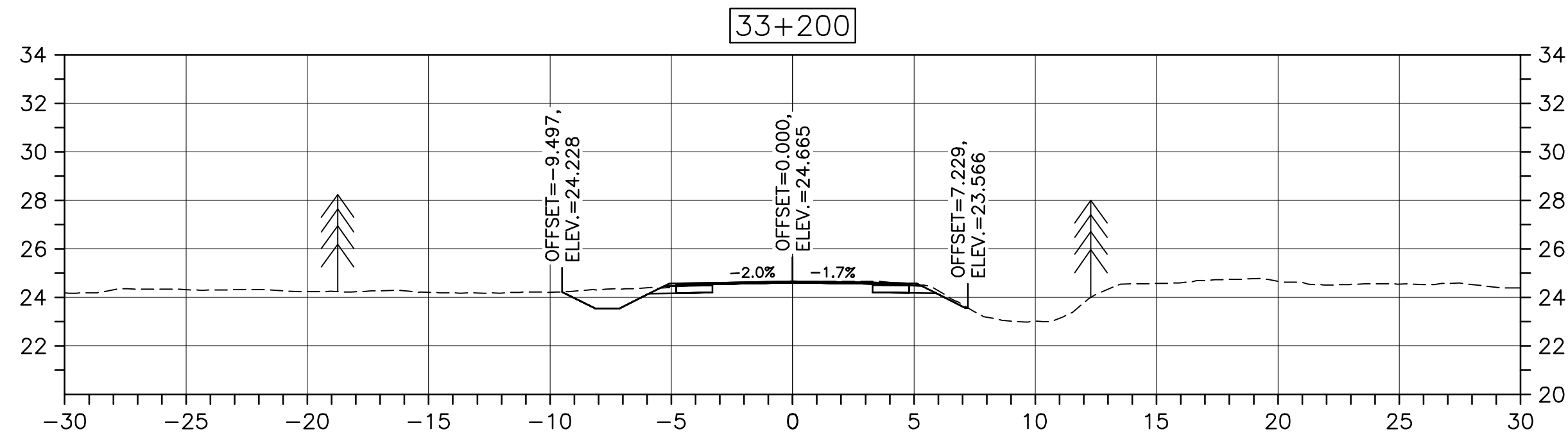
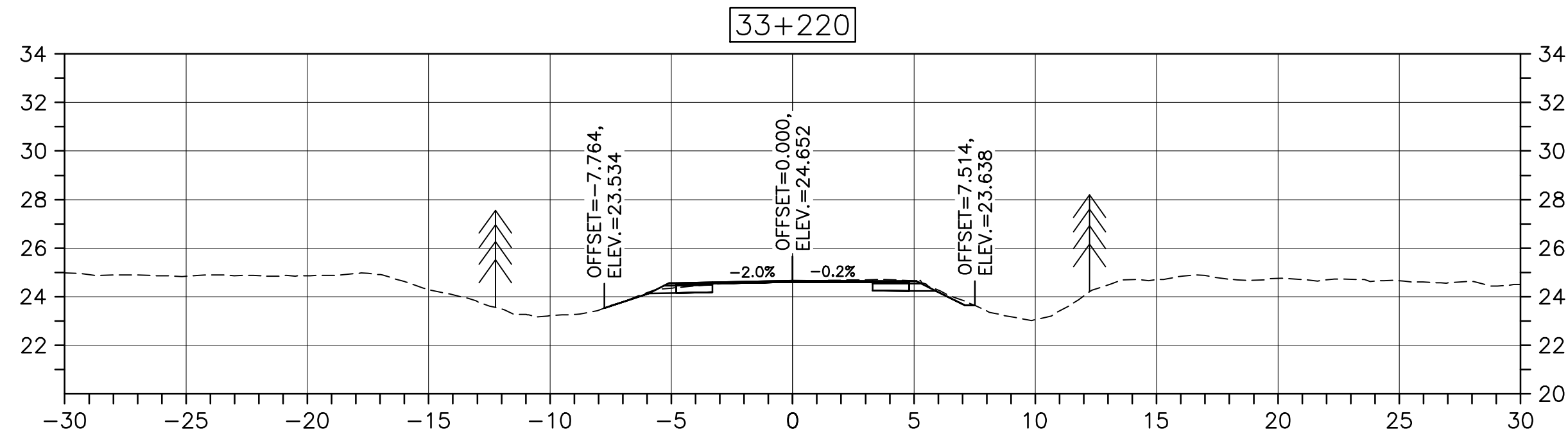
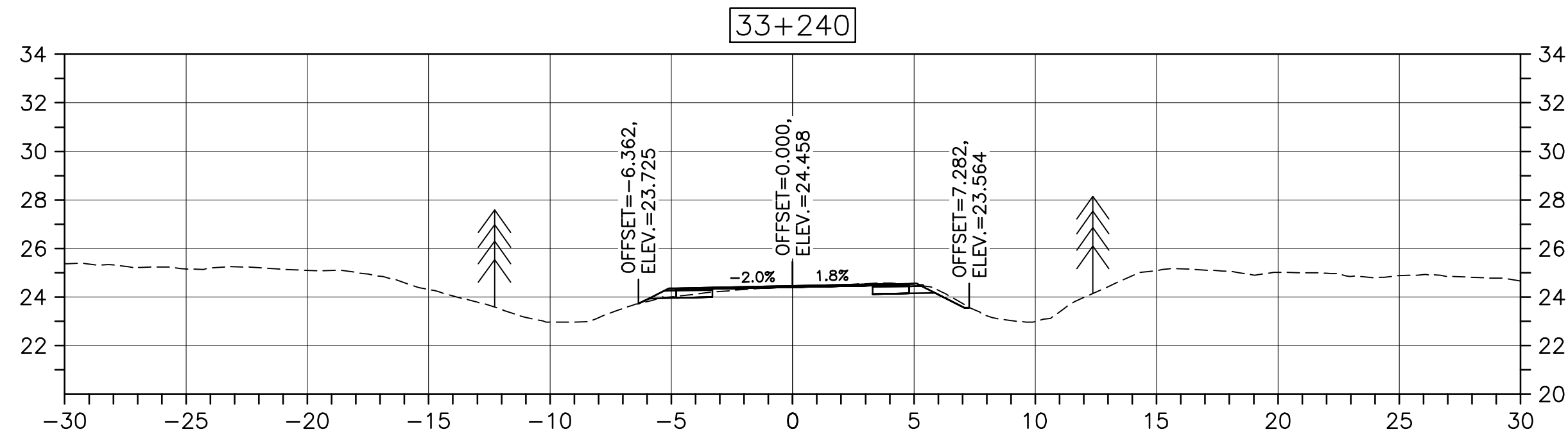
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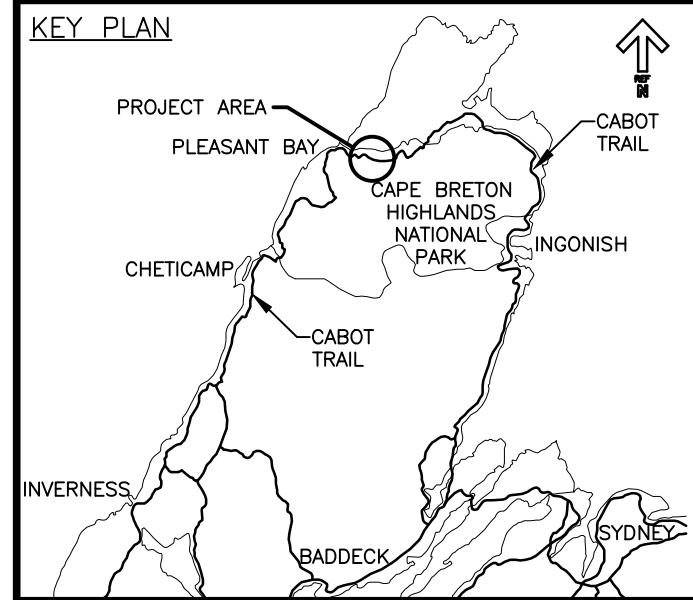


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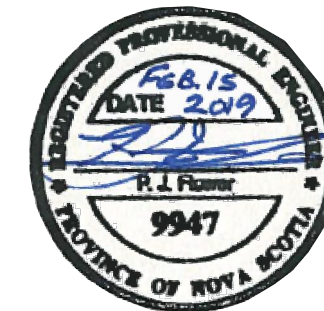
PWGSC A1 (2004)



CROSS SECTIONS
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LEGEND:
EXISTING TREELINE
CLEARING LIMIT



0	ISSUED FOR TENDER	02/15 2019
revisions		date

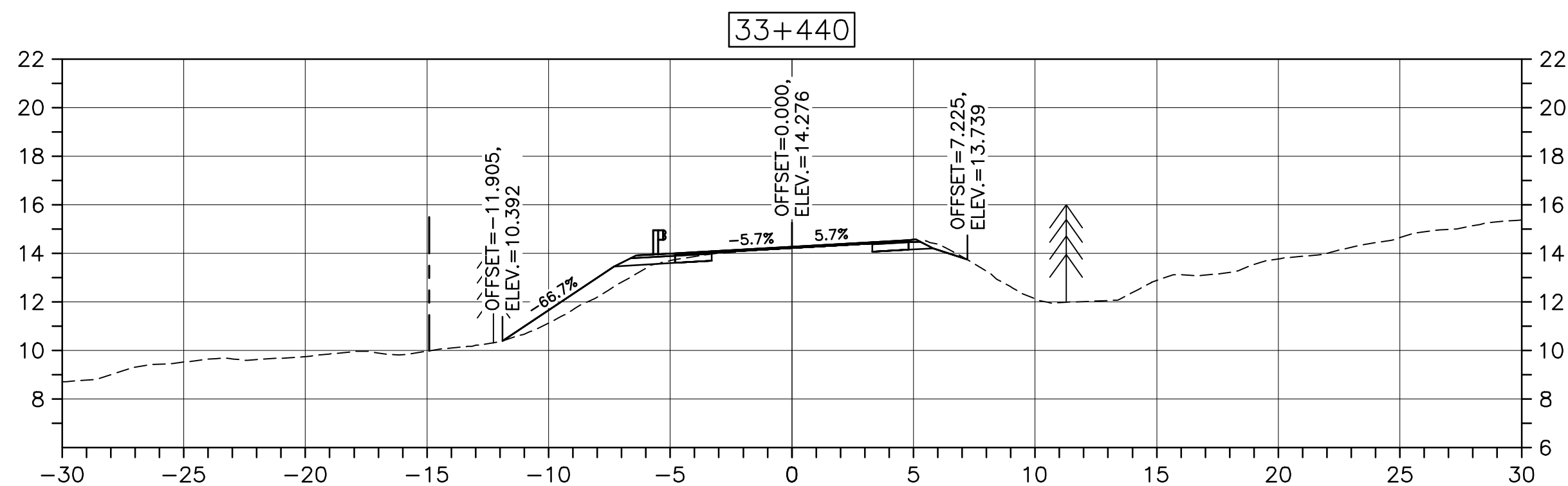
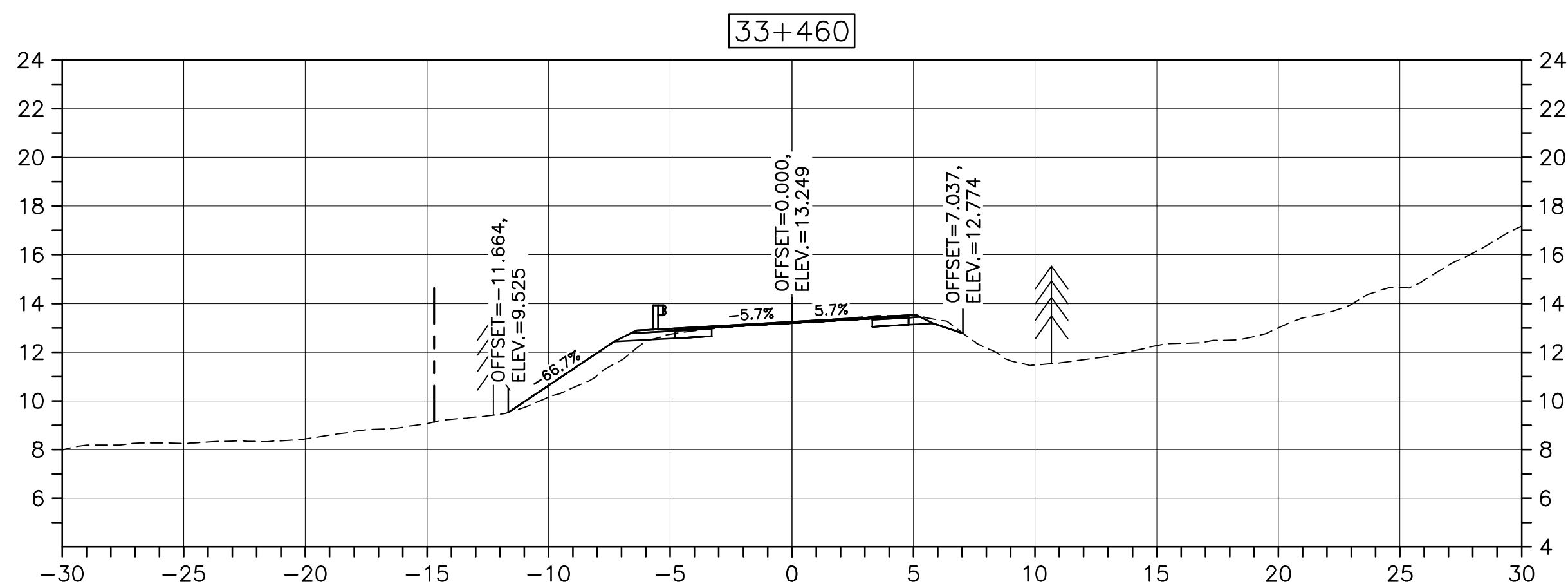
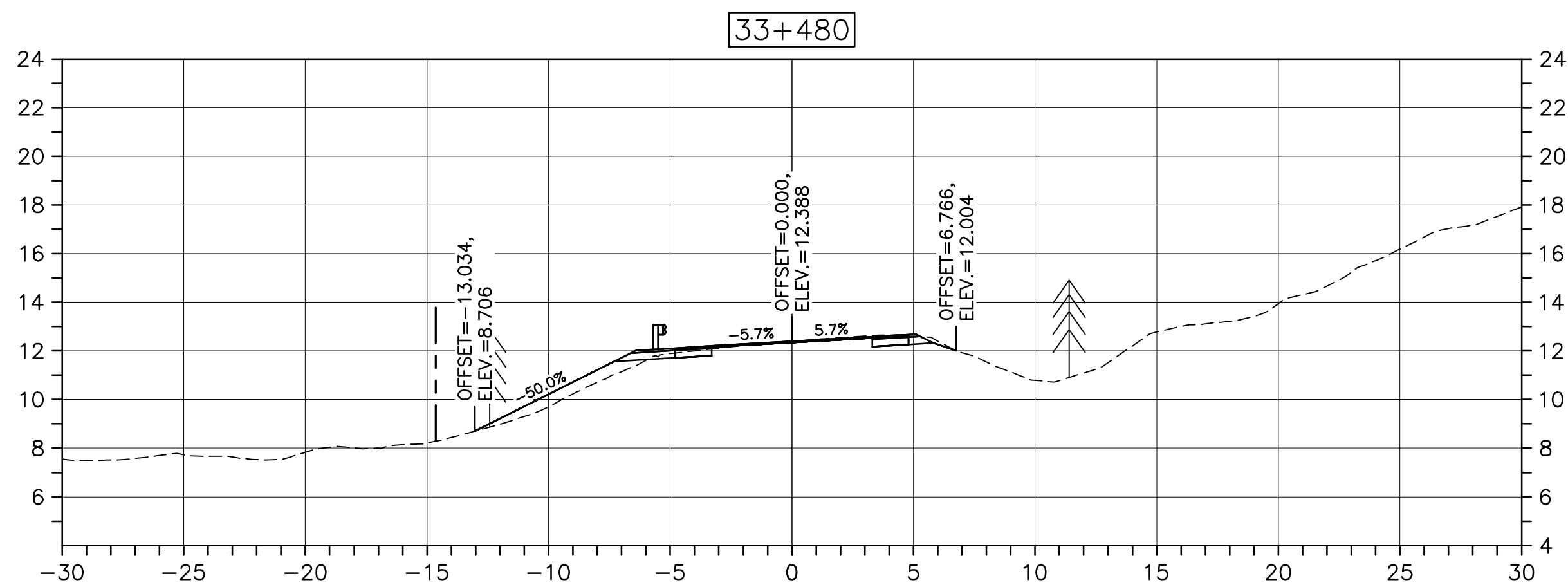
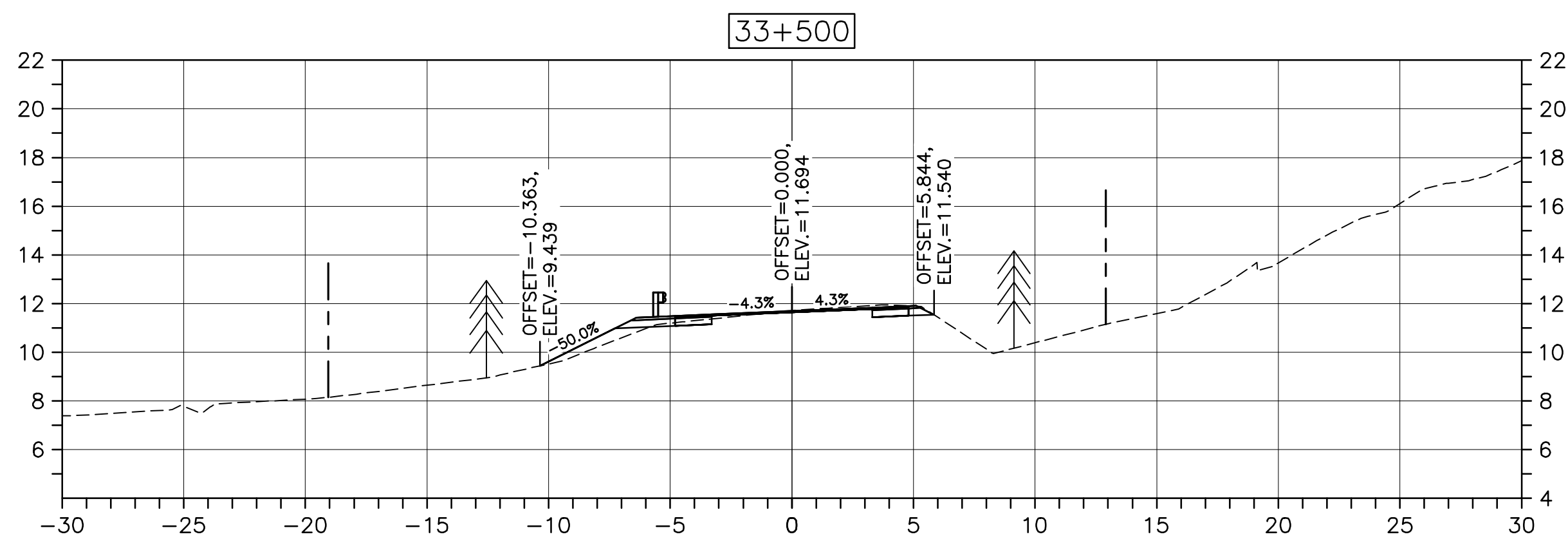
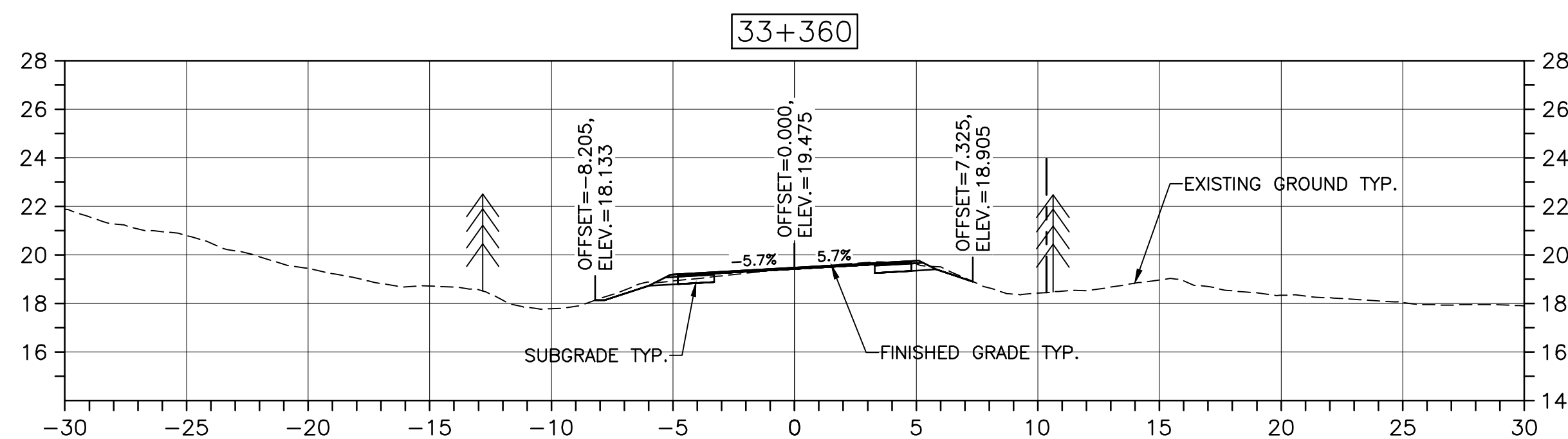
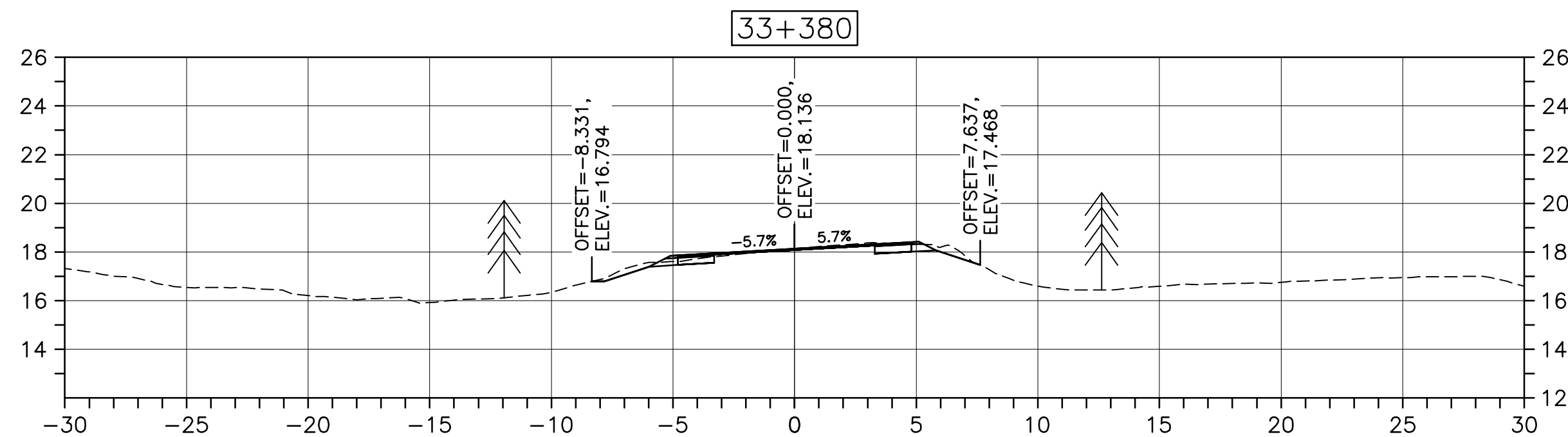
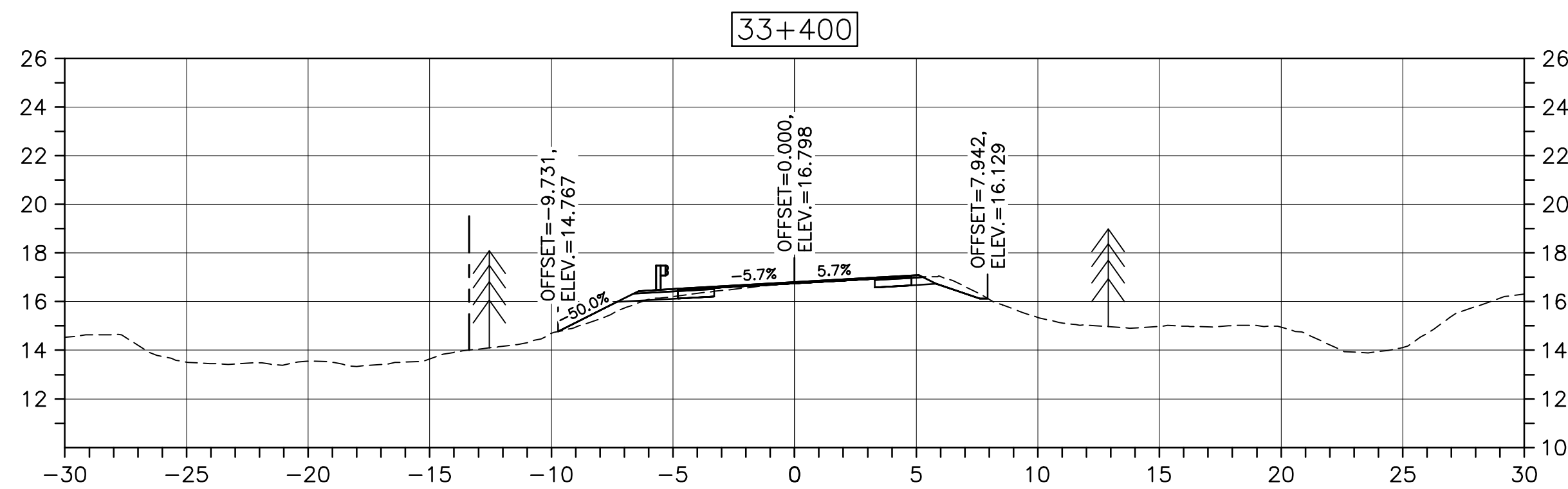
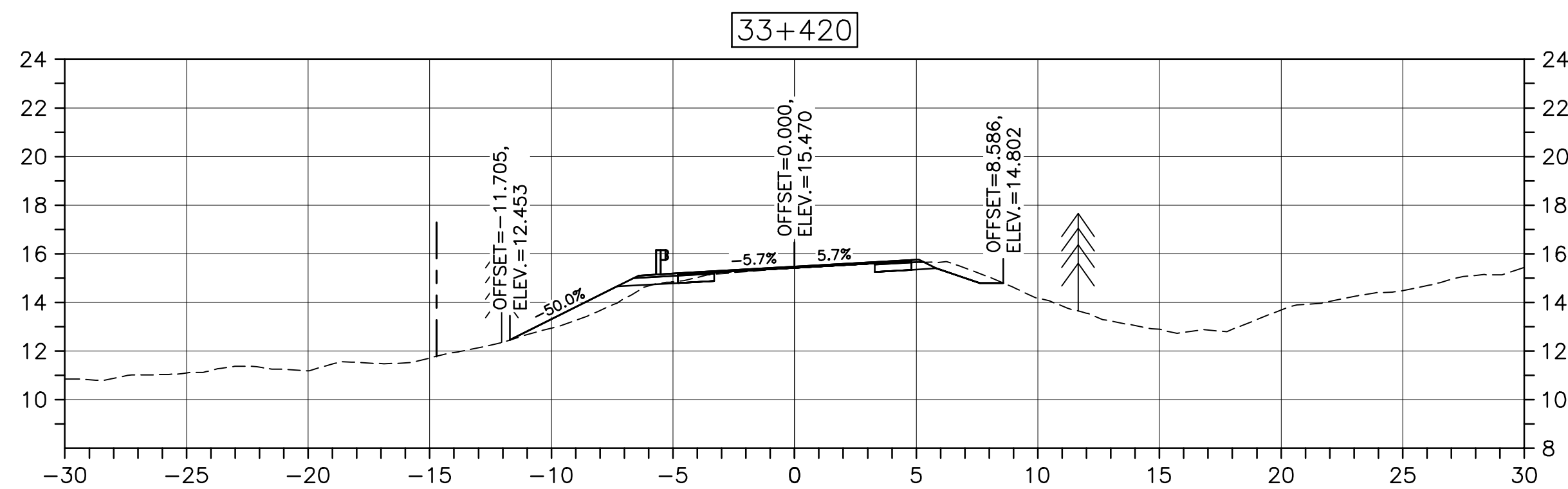
project CABOT TRAIL REHABILITATION PLEASANT BAY TO NORTH MOUNTAIN CAPE BRETON HIGHLANDS NATIONAL PARK
drawing dessin

DESIGN SECTIONS

designed DSC	conçu
date MAY. 31, 2018	
drawn JLD/CCP	dessiné
date MAY. 31, 2018	
approved RMB	approuvé
date FEB. 15, 2019	
Tender PCA Project Manager	Soumission FEB. 15, 2019 Administrateur de projets PCA
project number	no. du projet
1114	
drawing no.	no. du dessin
C-40	

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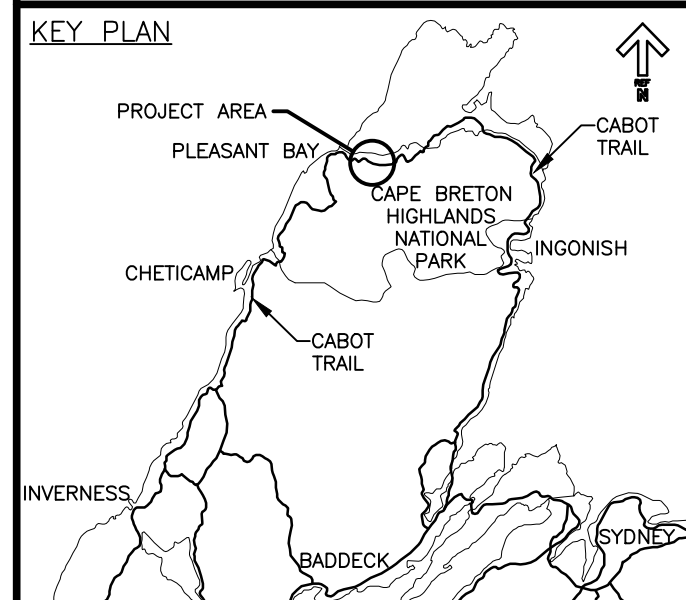
PWGSC A1 (2004)



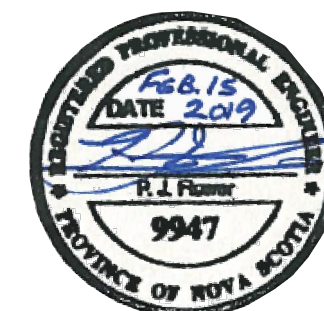
CROSS SECTIONS
SCALE: 1:200
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Parks Canada Parcs Canada



LEGEND:
EXISTING TREELINE
CLEARING LIMIT



0	ISSUED FOR TENDER	02/15 2019
revisions		date

project CABOT TRAIL REHABILITATION PLEASANT BAY TO NORTH MOUNTAIN CAPE BRETON HIGHLANDS NATIONAL PARK

drawing dessin

DESIGN SECTIONS

designed DSC	conçu
date MAY. 31, 2018	
drawn JLD/CCP	dessiné
date MAY. 31, 2018	
approved RMB	approuvé
date FEB. 15, 2019	

Tender PCA Project Manager Soumission Administrateur de projets PCA

project number no. du projet

1114

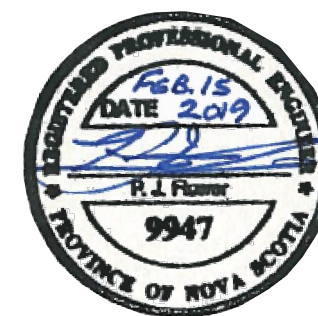
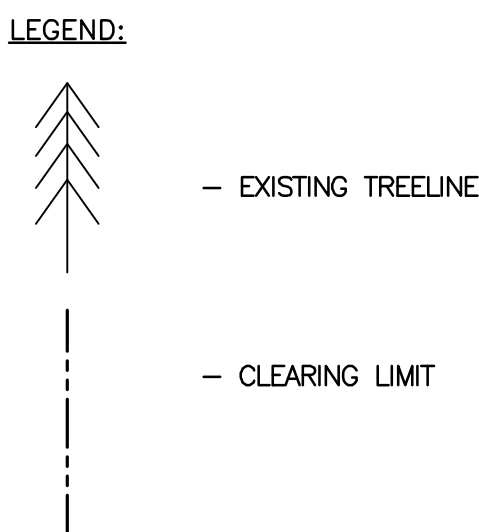
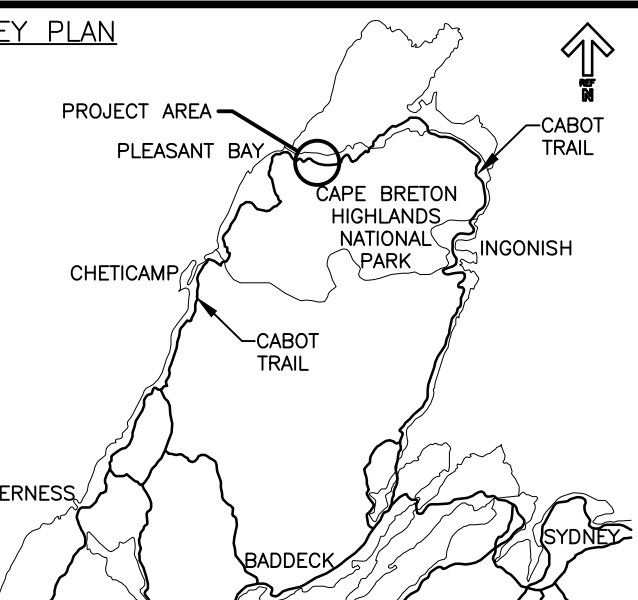
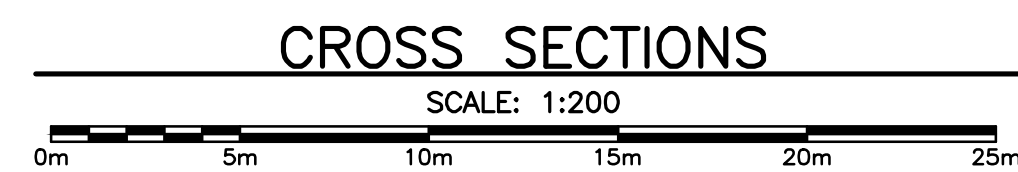
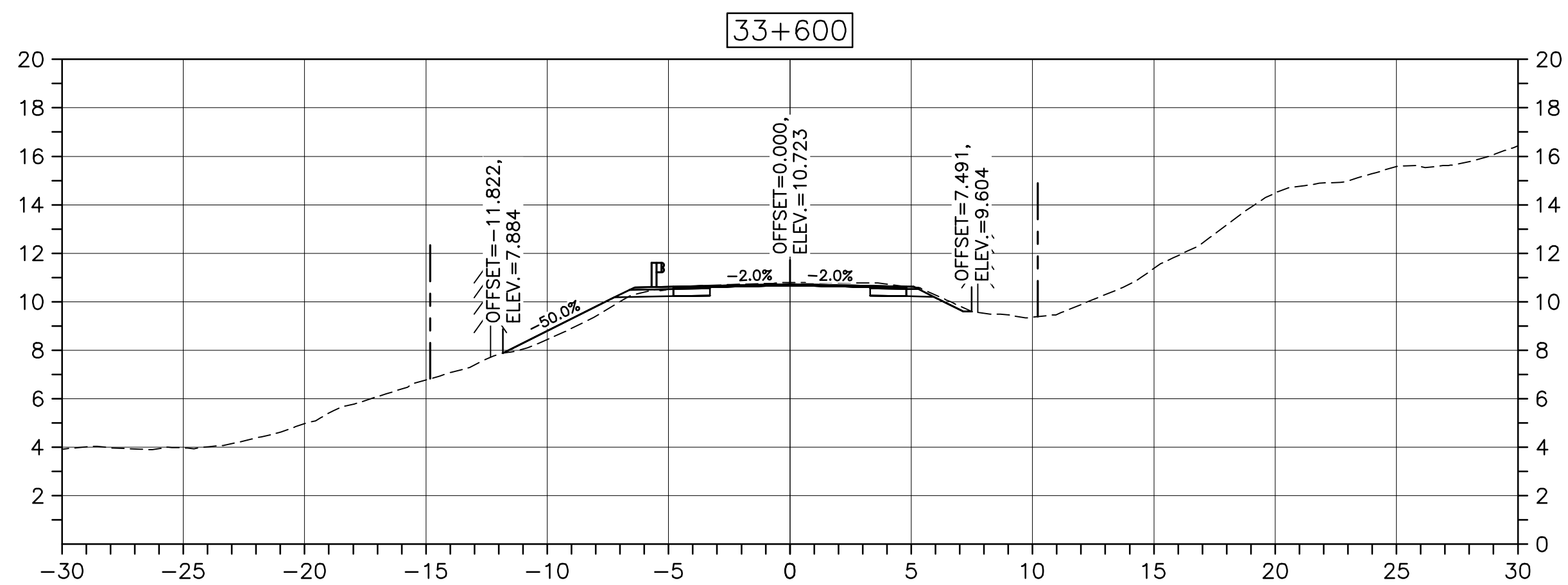
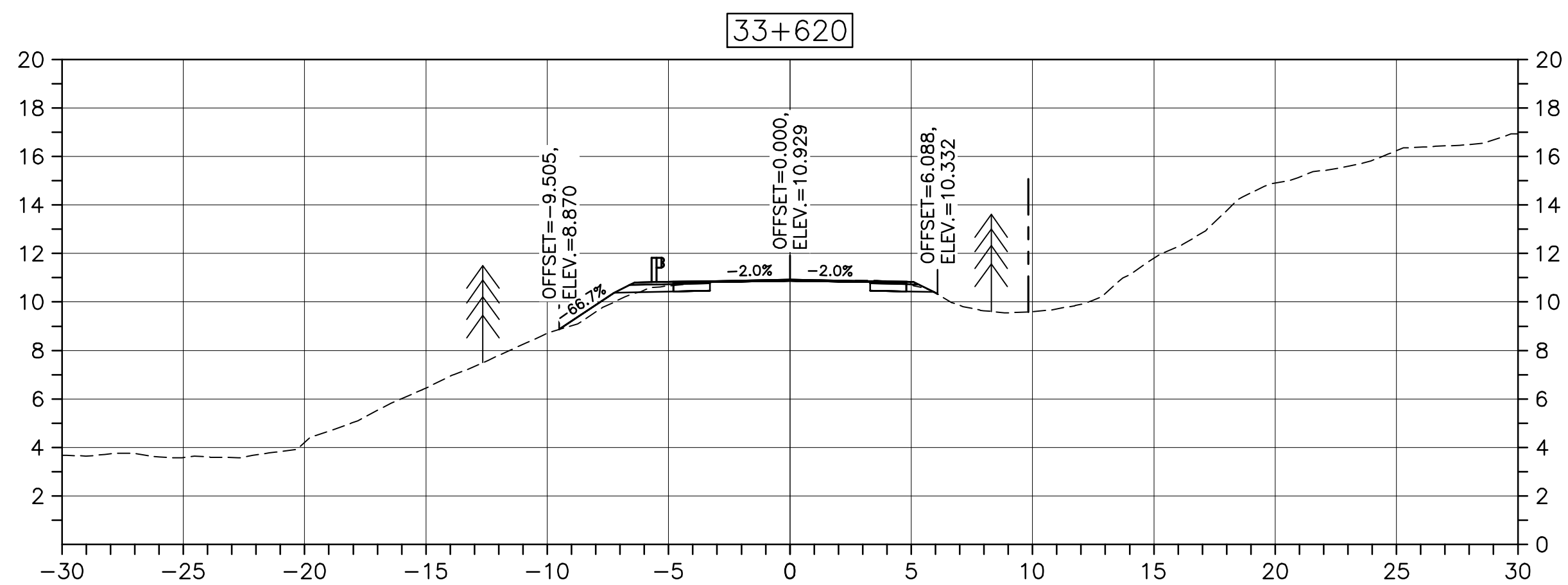
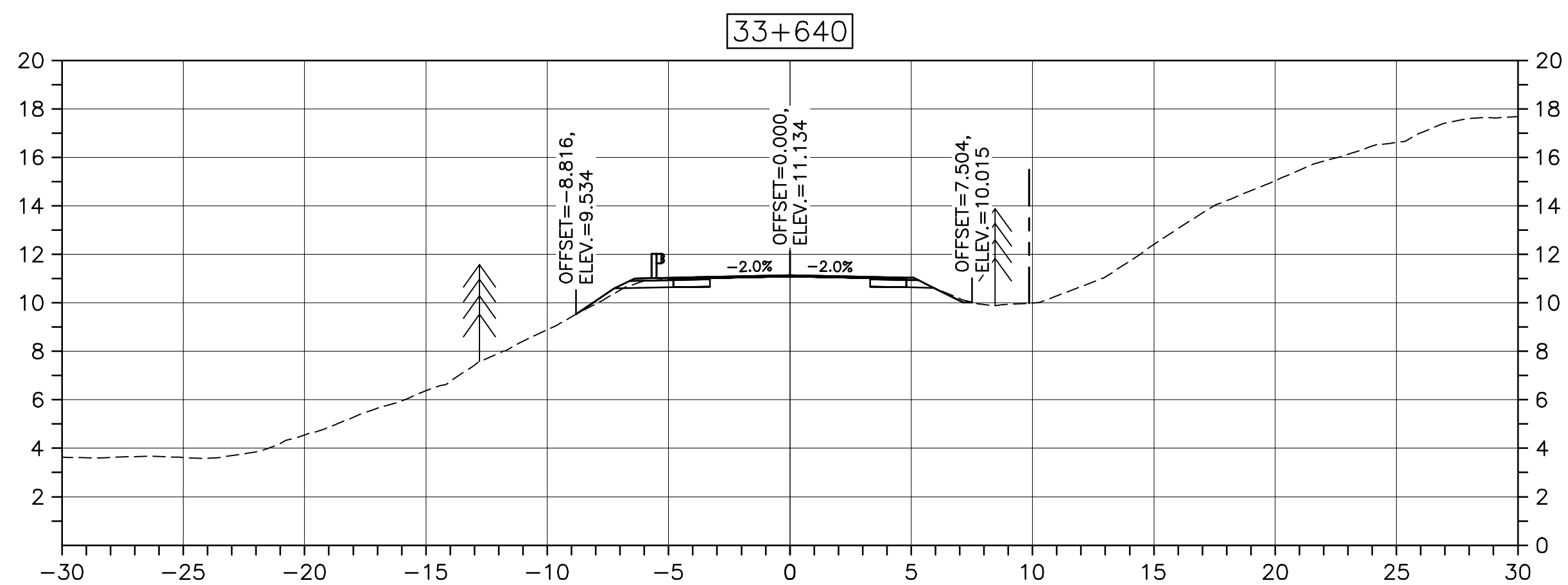
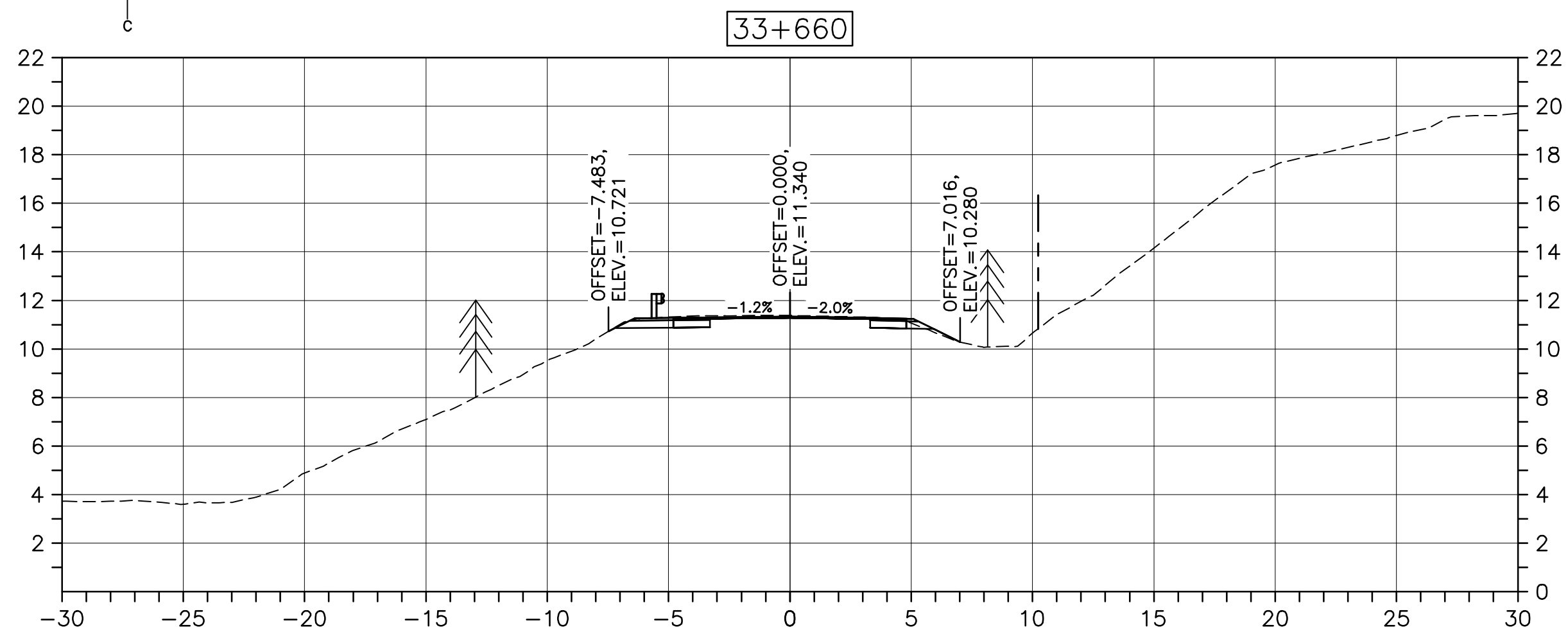
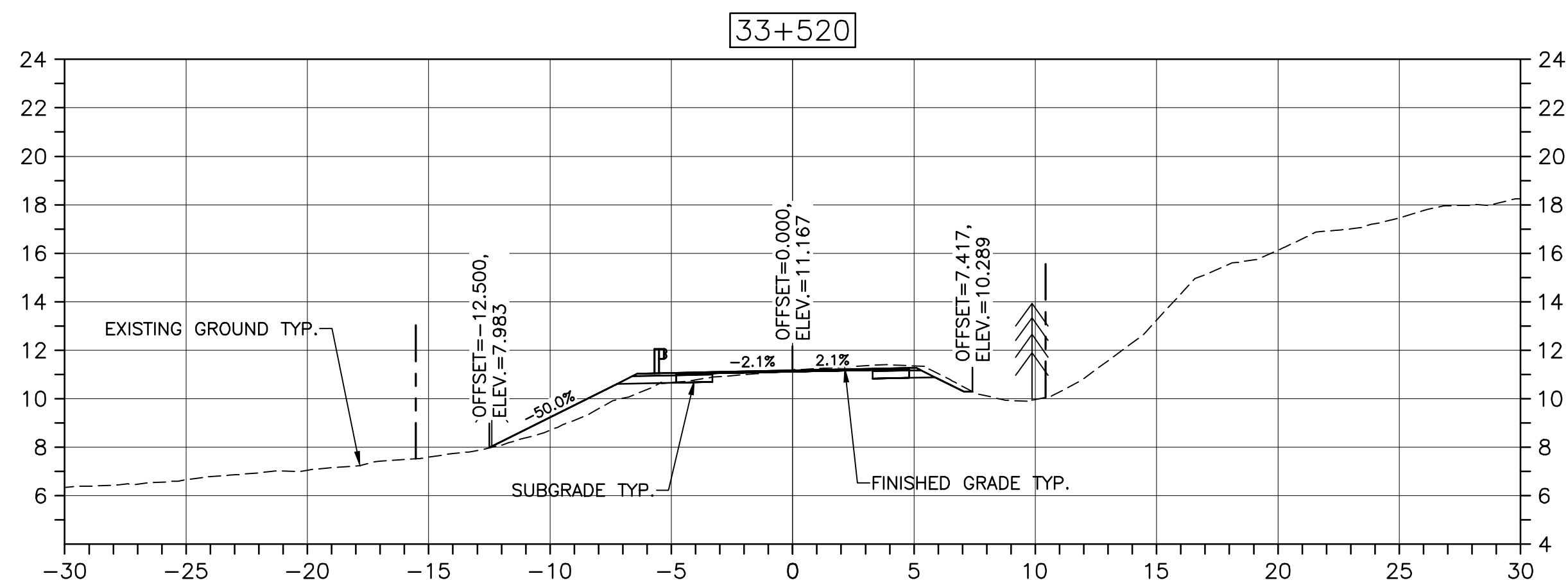
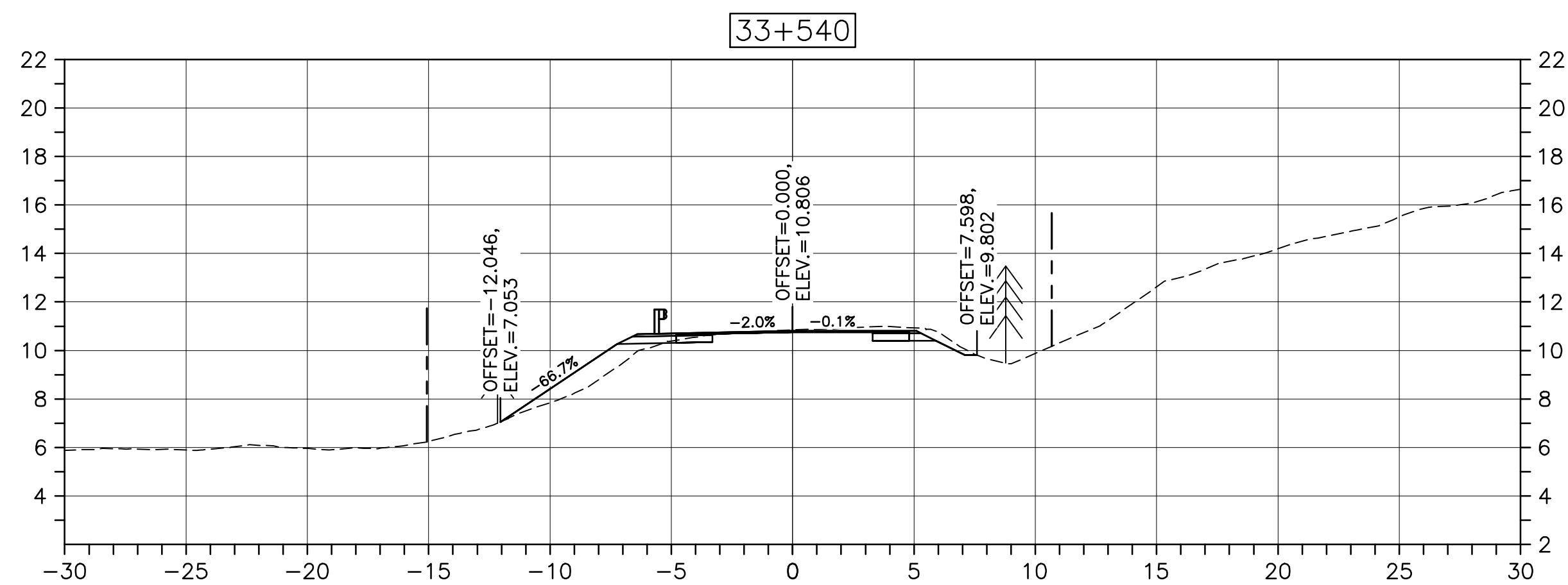
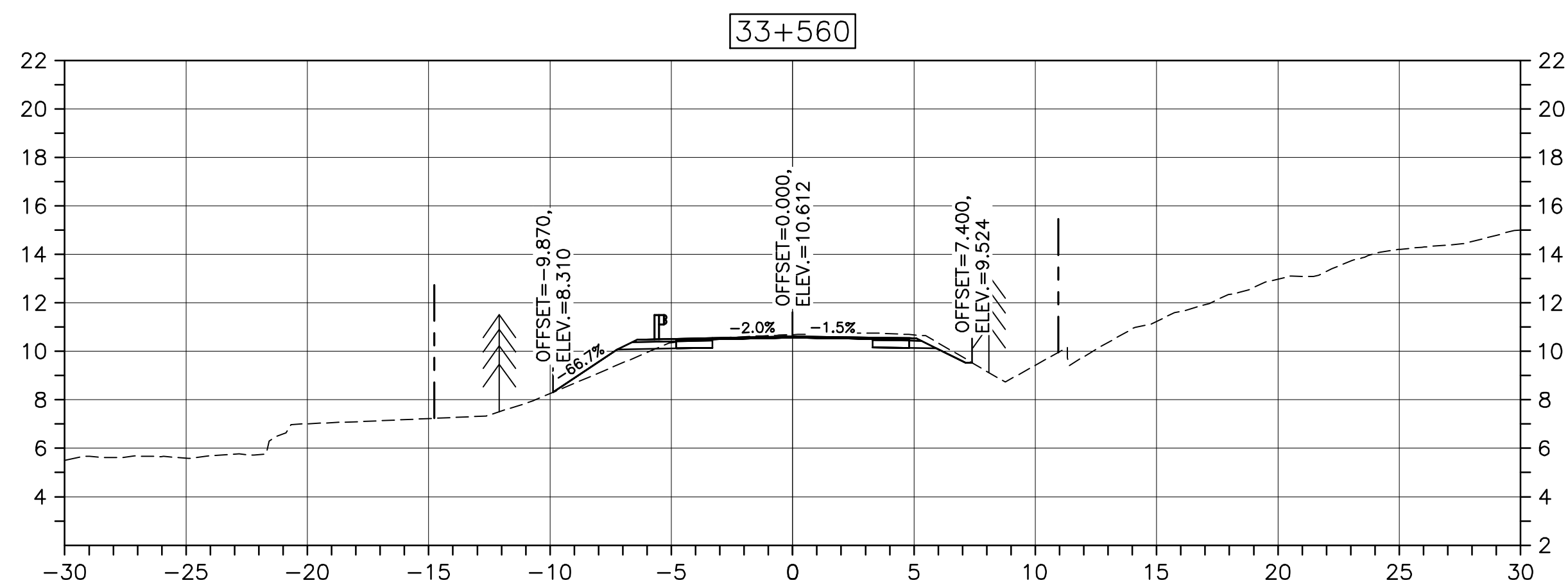
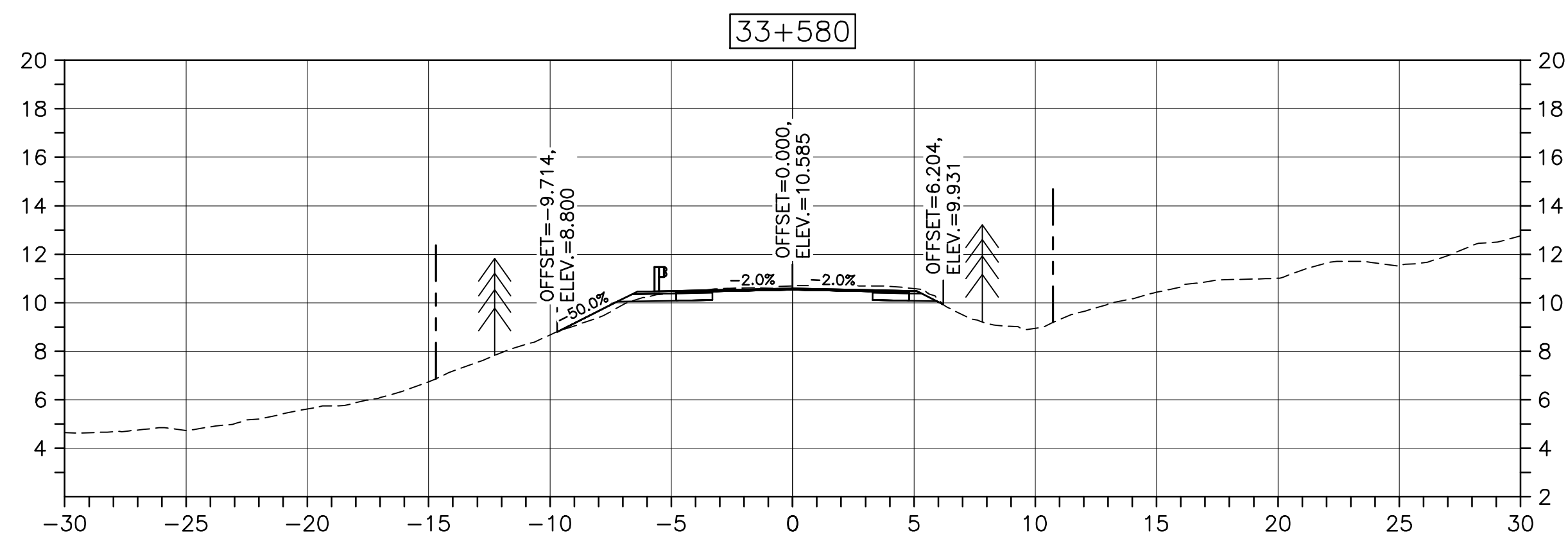
drawing no. no. du dessin

C-41

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PWOSC A1 (2004)



0	ISSUED FOR TENDER	02/15 2019
revisions		date

project	project
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CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing	dessin
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DESIGN SECTIONS

designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	

Tender	Soumission
PCA Project Manager	Administrateur de projets PCA

project number	no. du projet
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1114

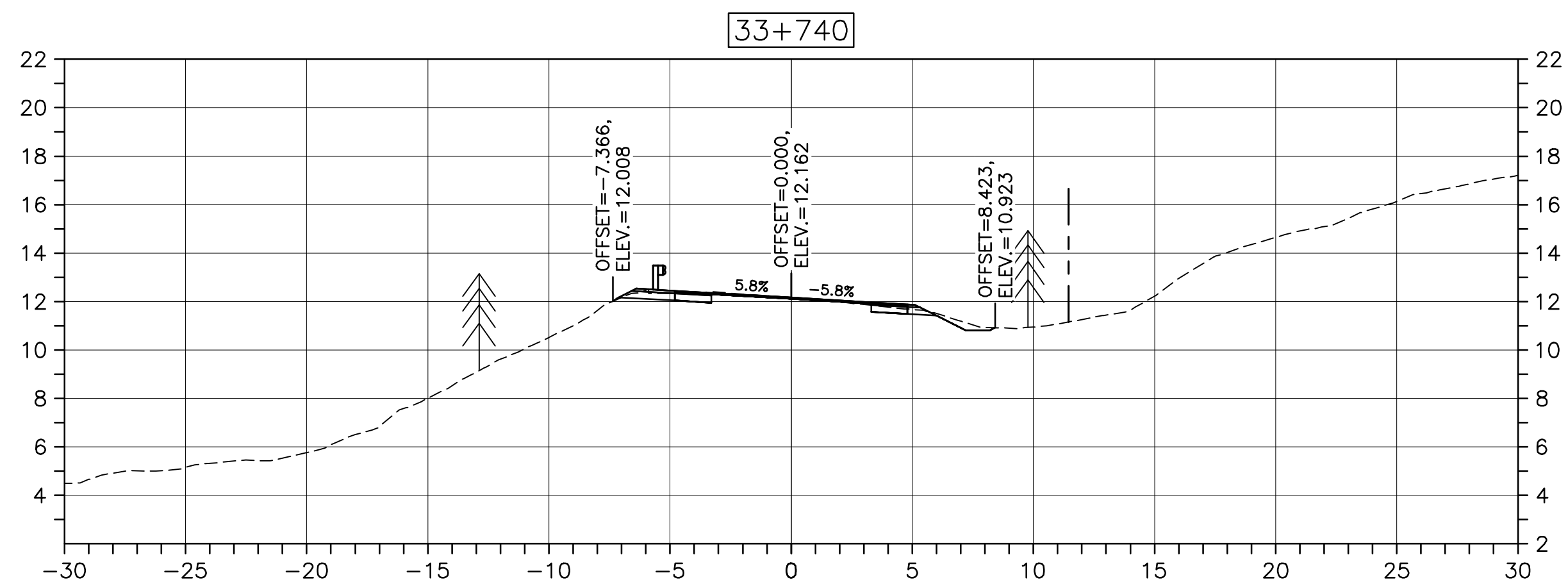
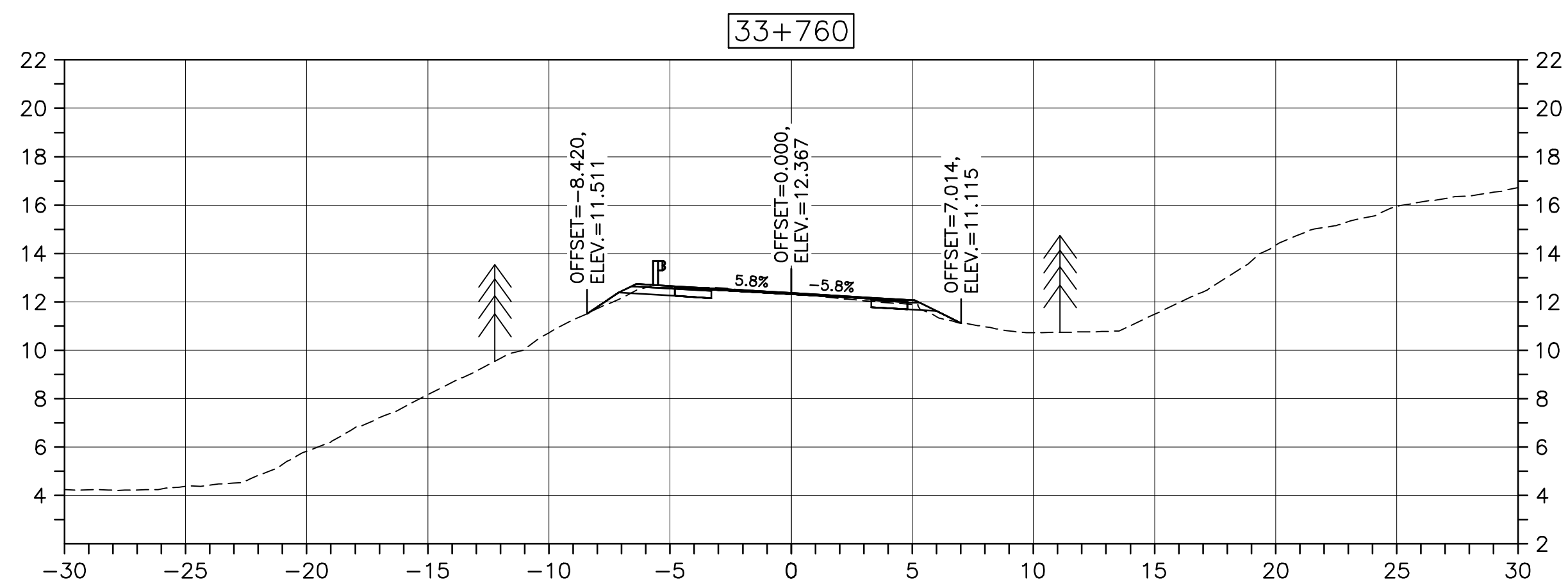
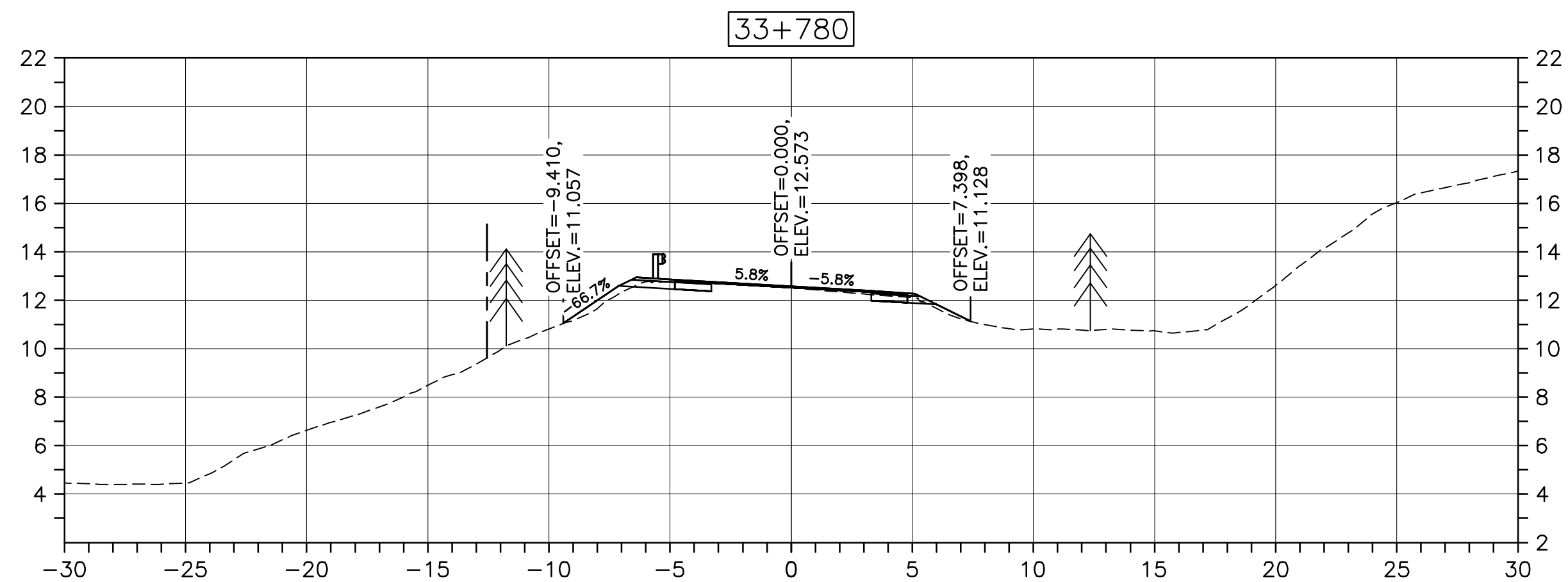
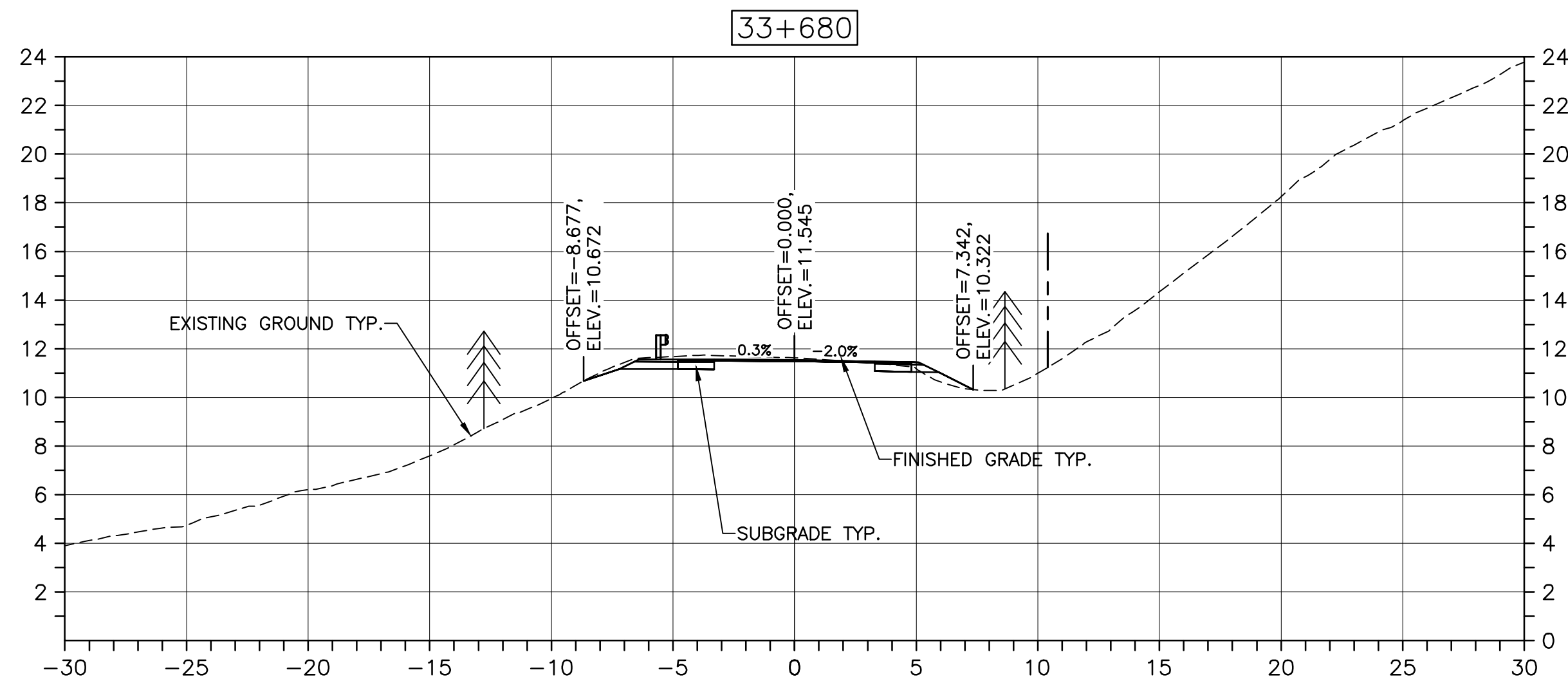
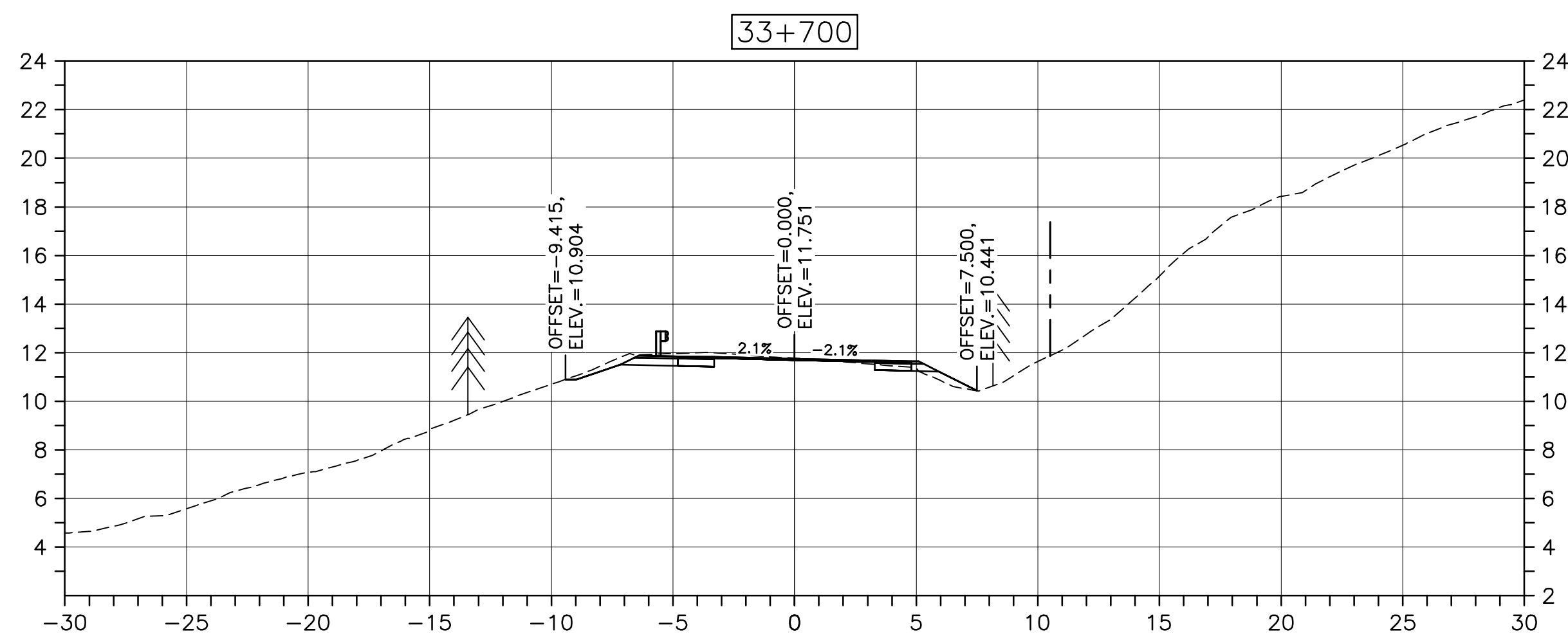
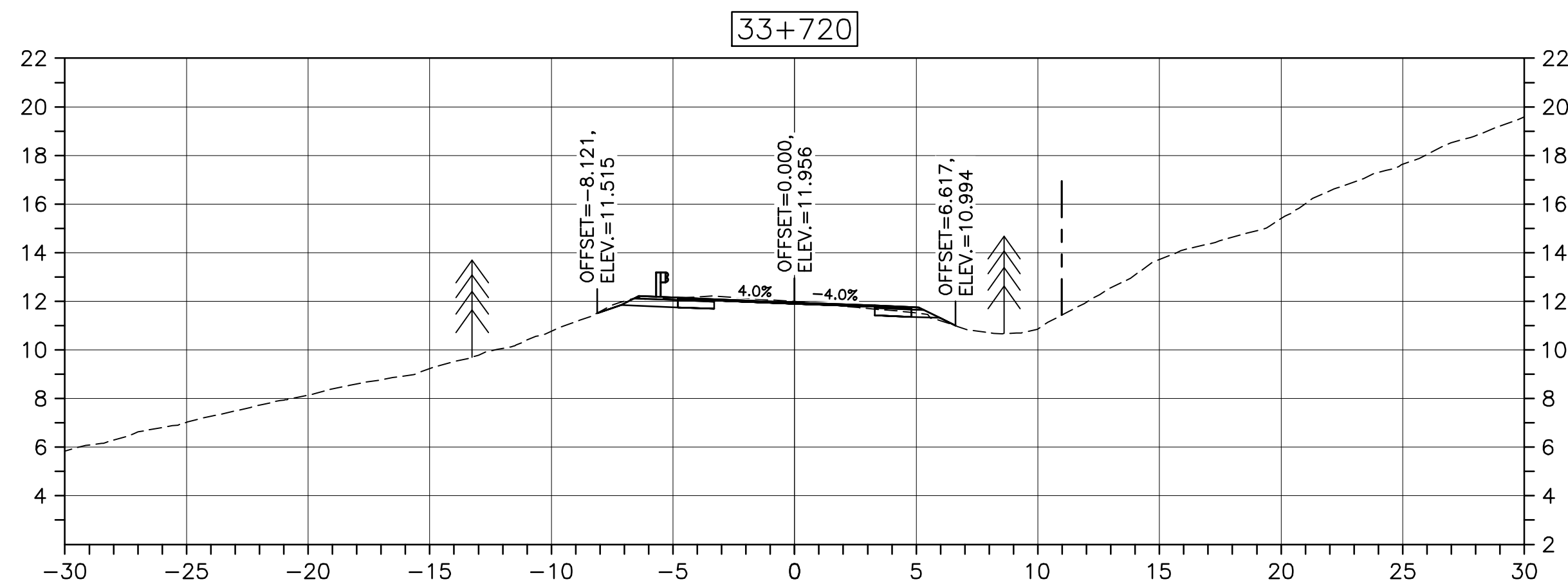
drawing no.	no. du dessin
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C-42

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PWGSC A1 (2004)



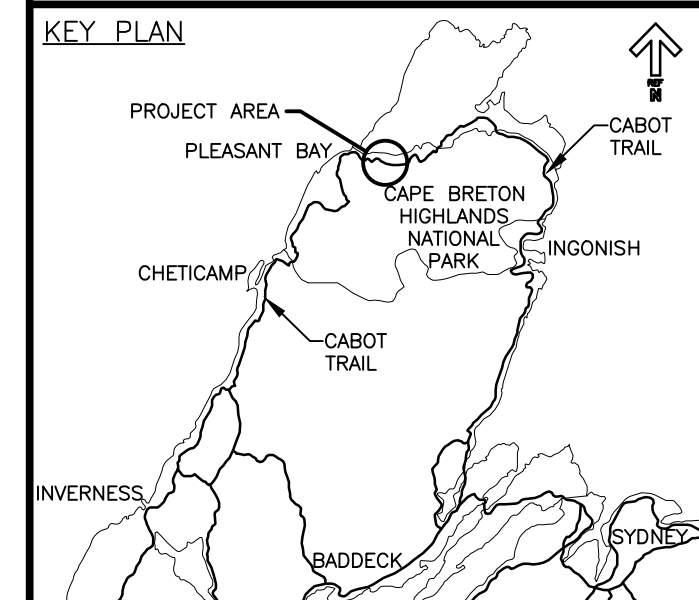
CROSS SECTIONS

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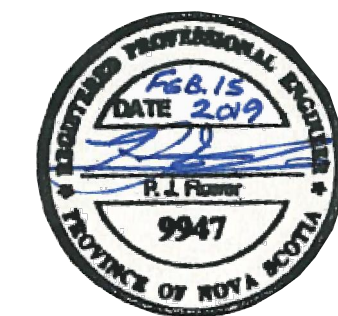
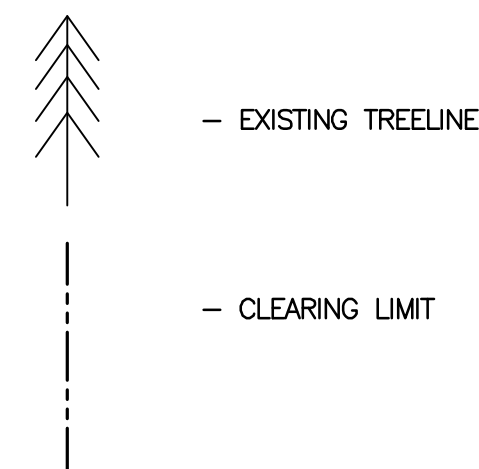


Parks Canada

KEY PLAN



LEGEND:



0	ISSUED FOR TENDER	02/15 2019
revisions		date

project

CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing

DESIGN SECTIONS

designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	

Tender
PCA Project Manager

Soumission
Administrateur de projets PCA

project number

1114

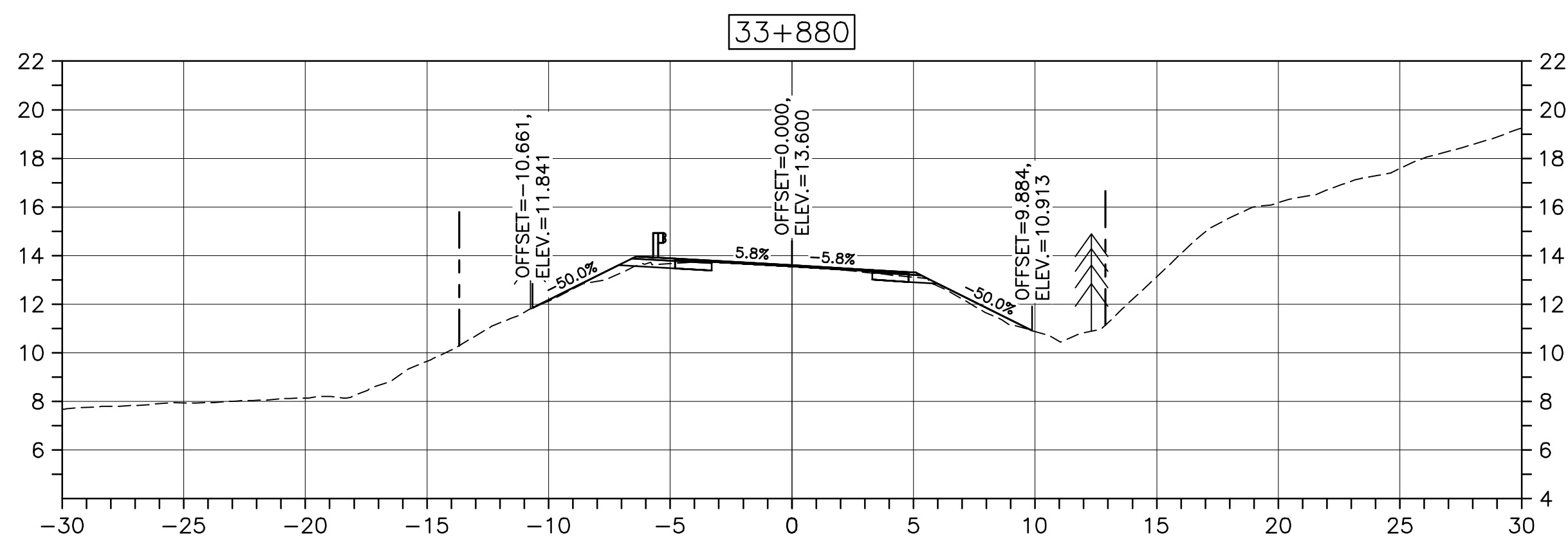
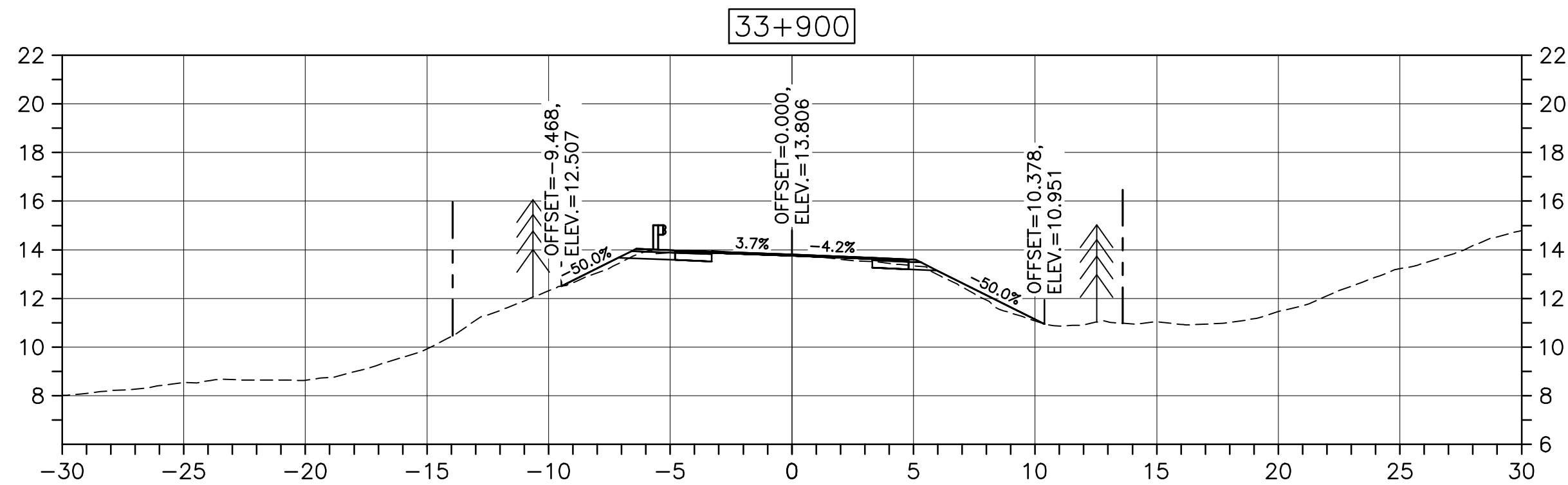
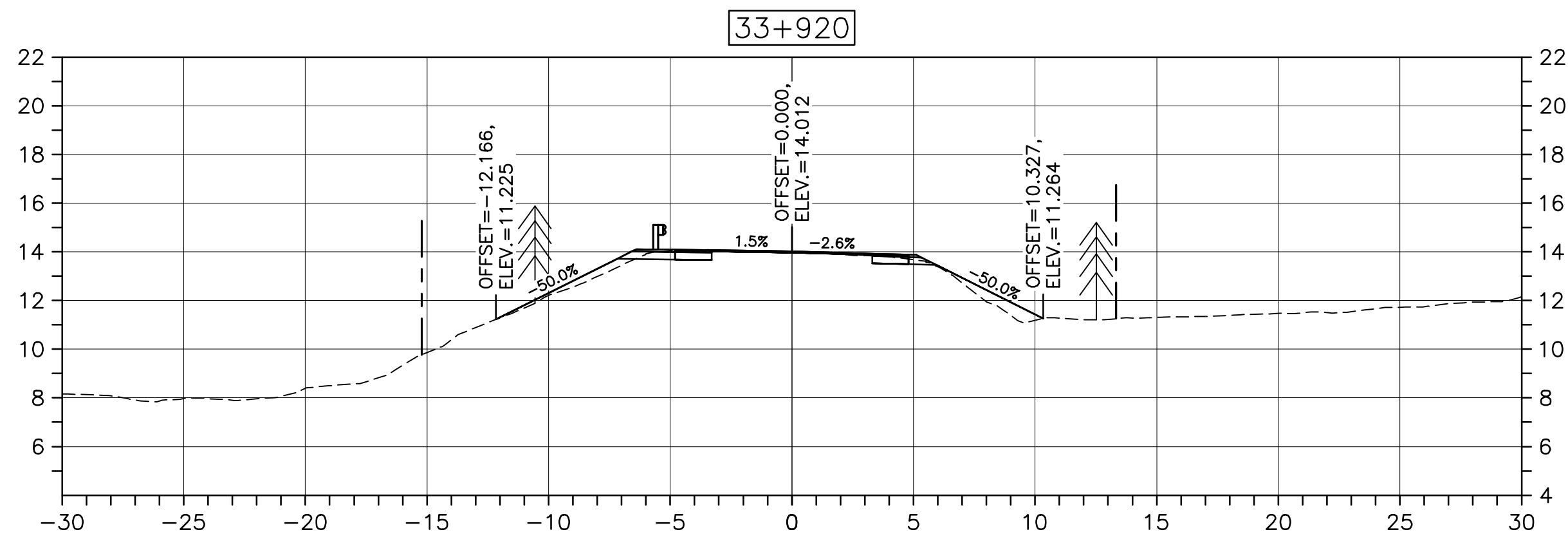
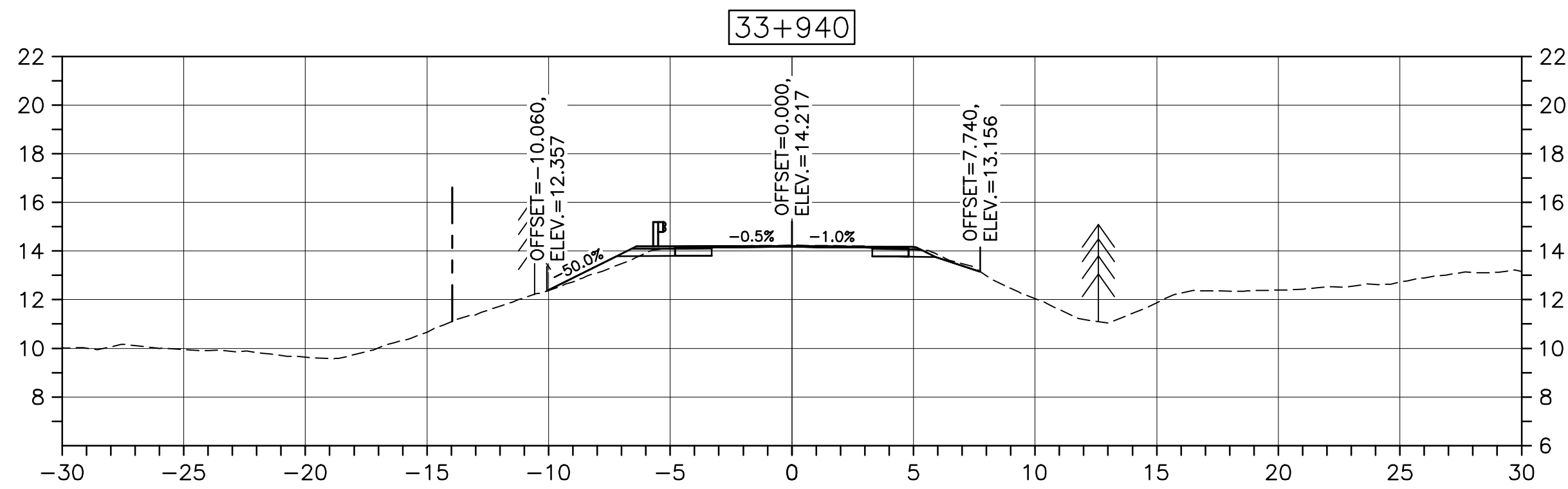
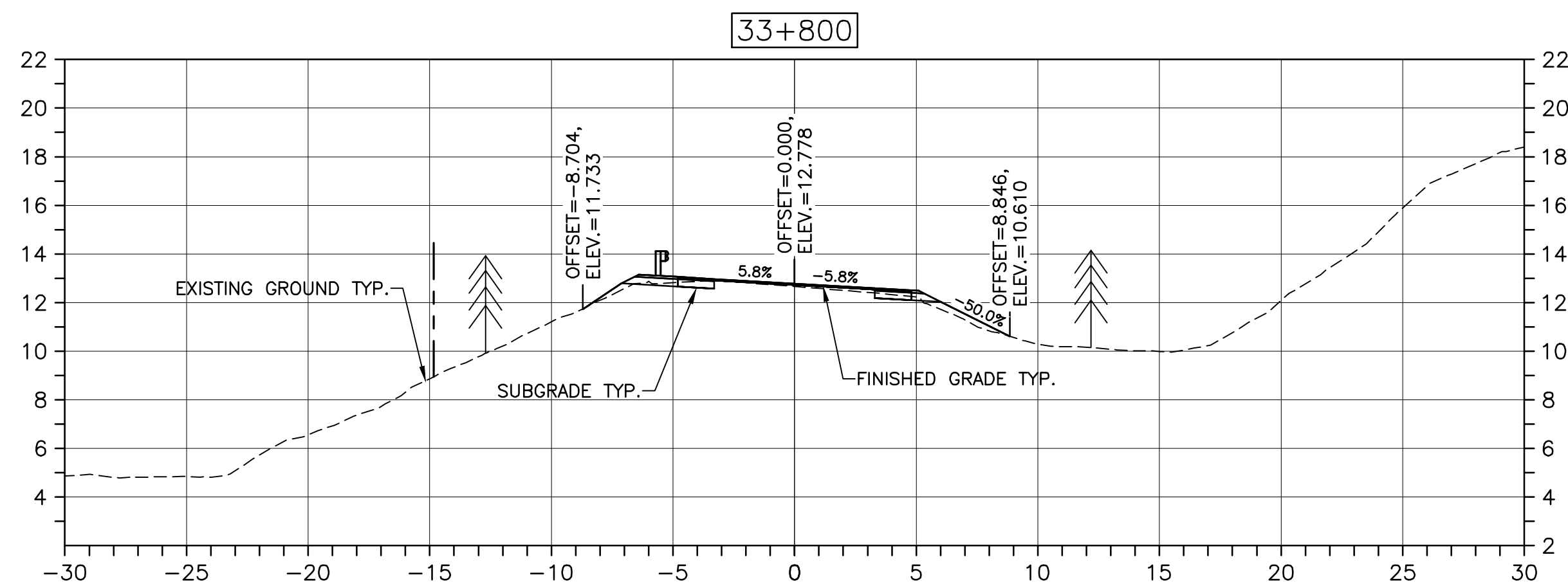
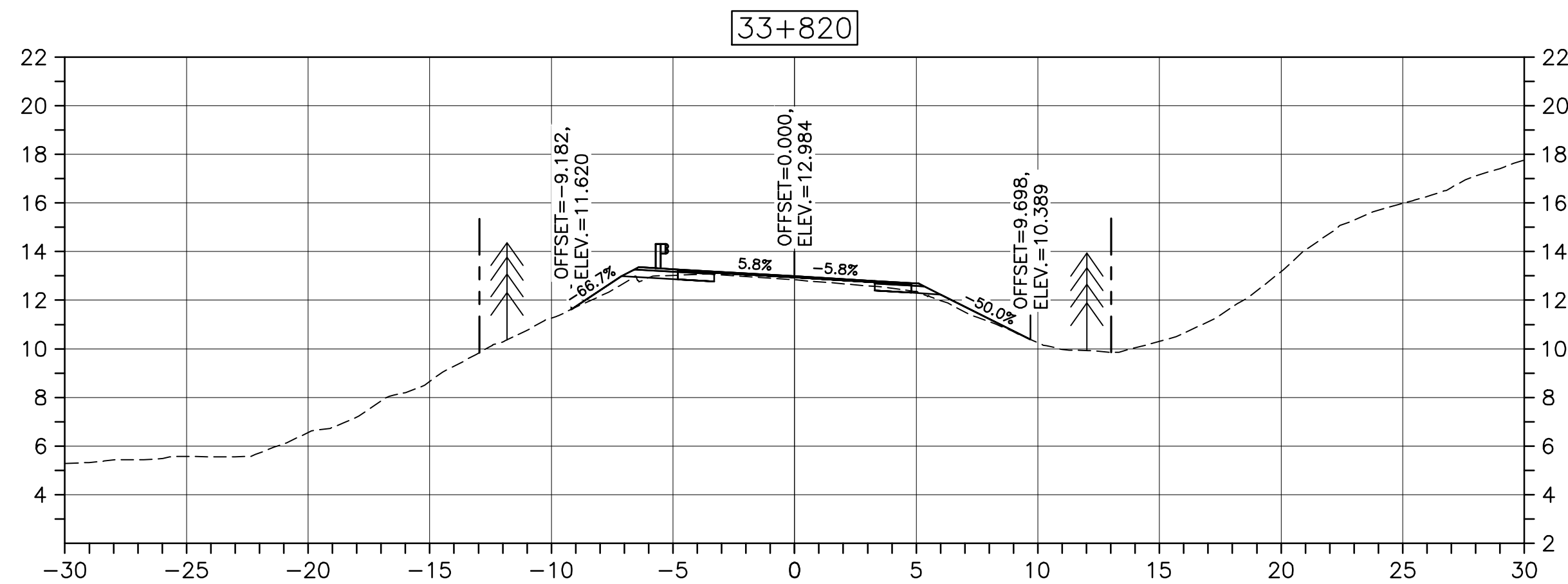
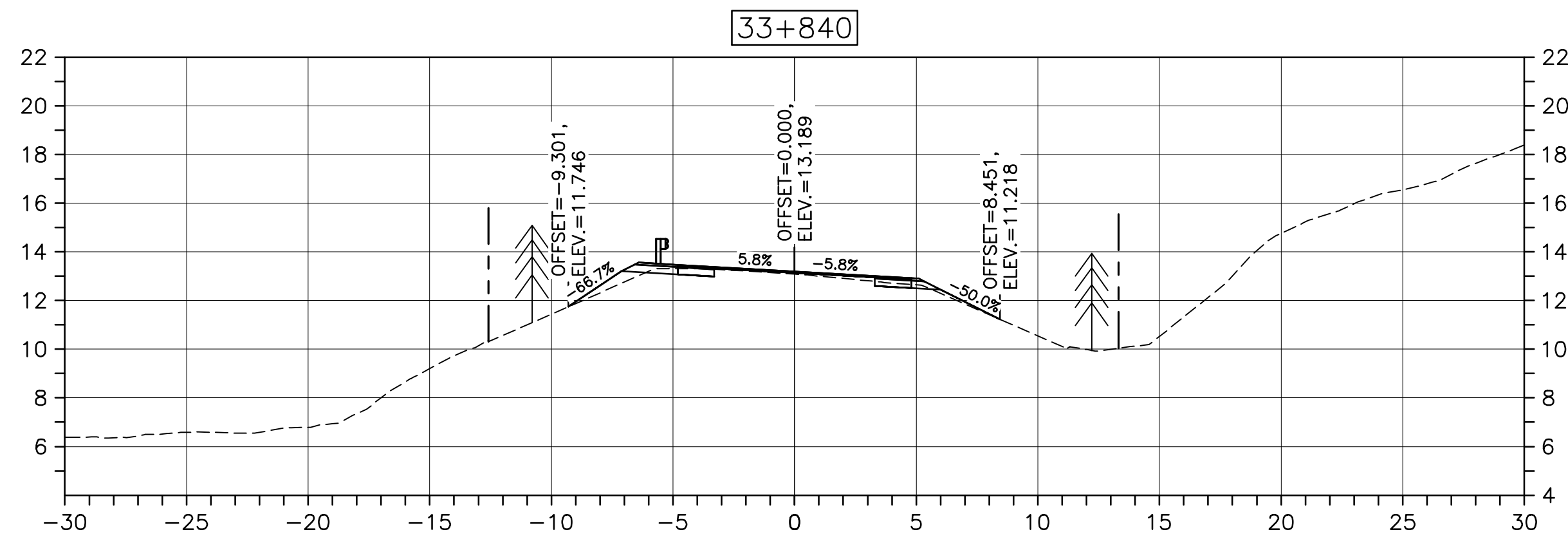
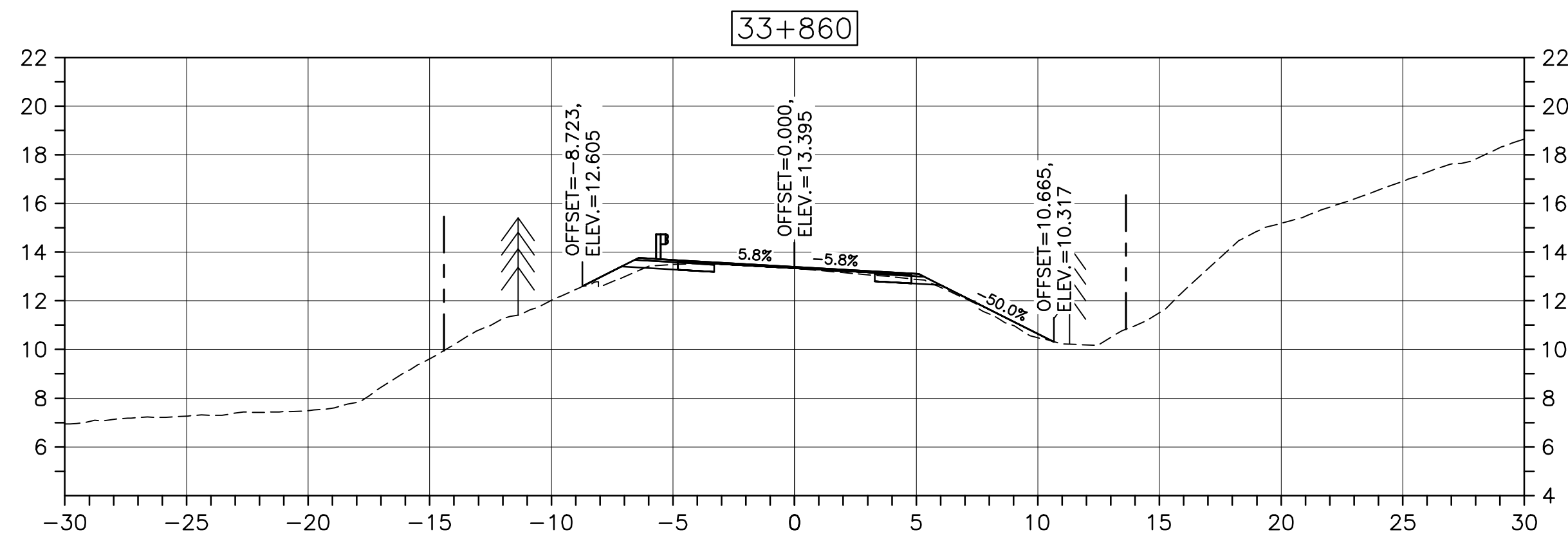
drawing no.

C-43

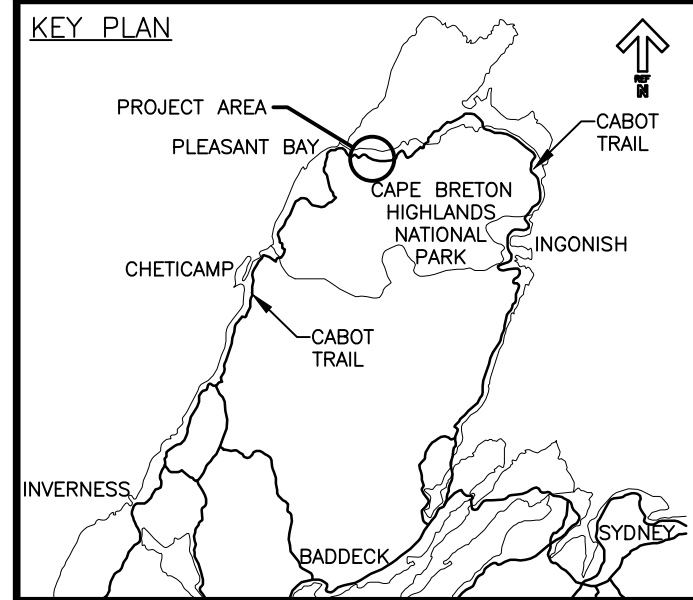
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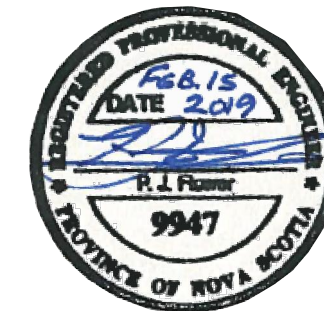
PWGSC A1 (2004)



CROSS SECTIONS
SCALE: 1:200
0m 5m 10m 15m 20m 25m



- LEGEND:
- EXISTING TREELINE
 - CLEARING LIMIT



0	ISSUED FOR TENDER	02/15 2019
revisions		date

project

CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing

DESIGN SECTIONS

designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	

Tender PCA Project Manager
Soumission Administrateur de projets PCA

project number

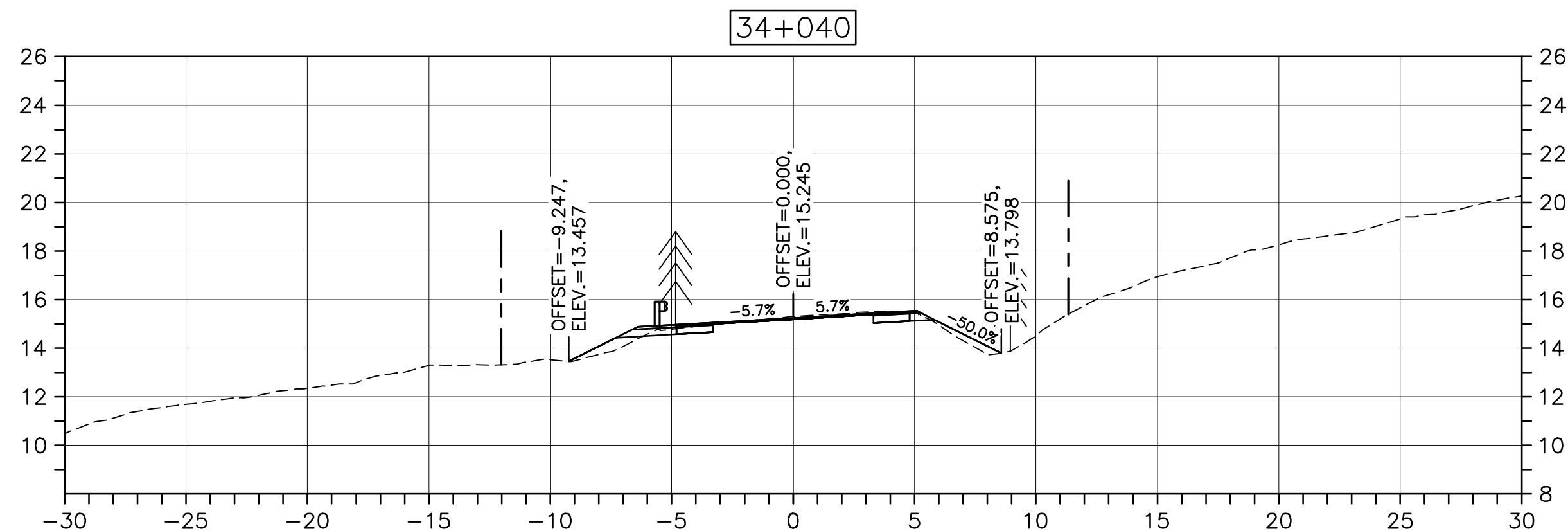
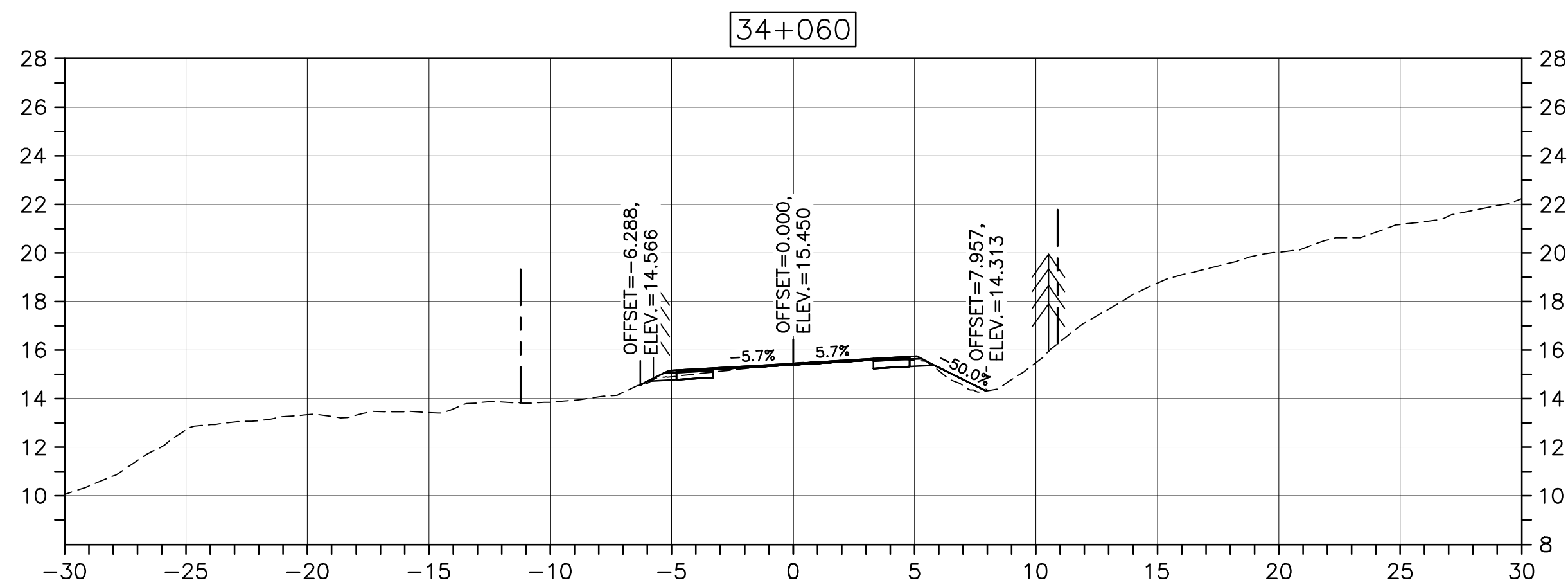
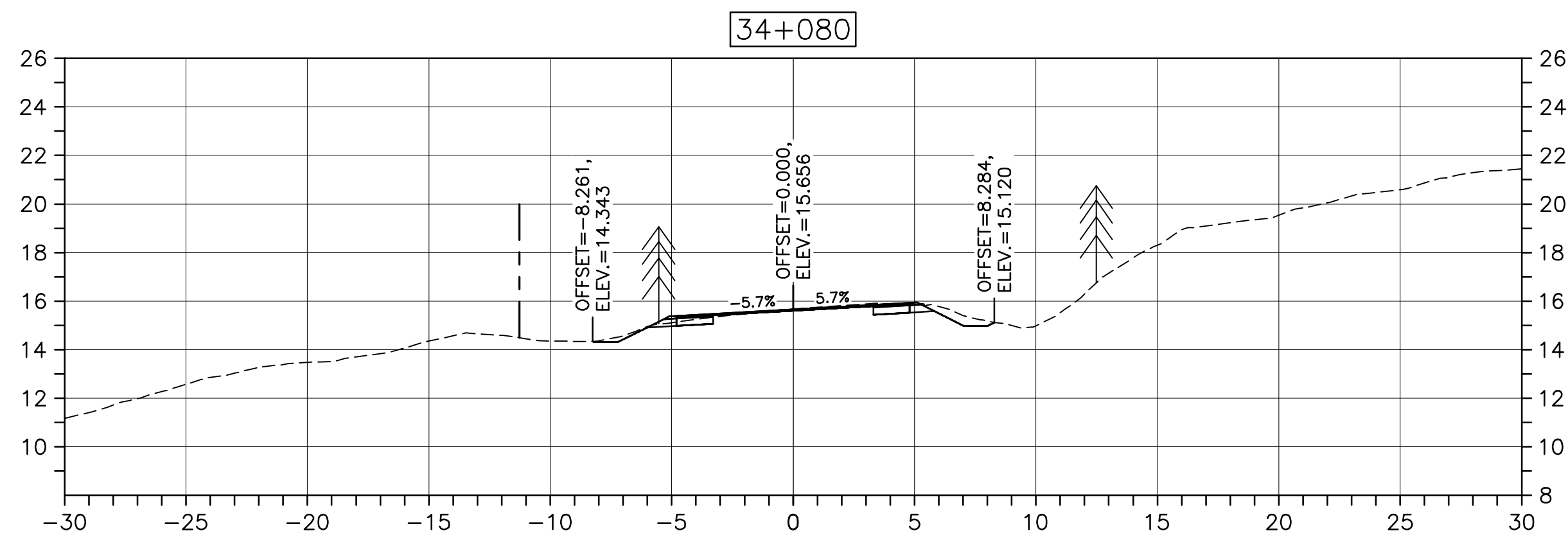
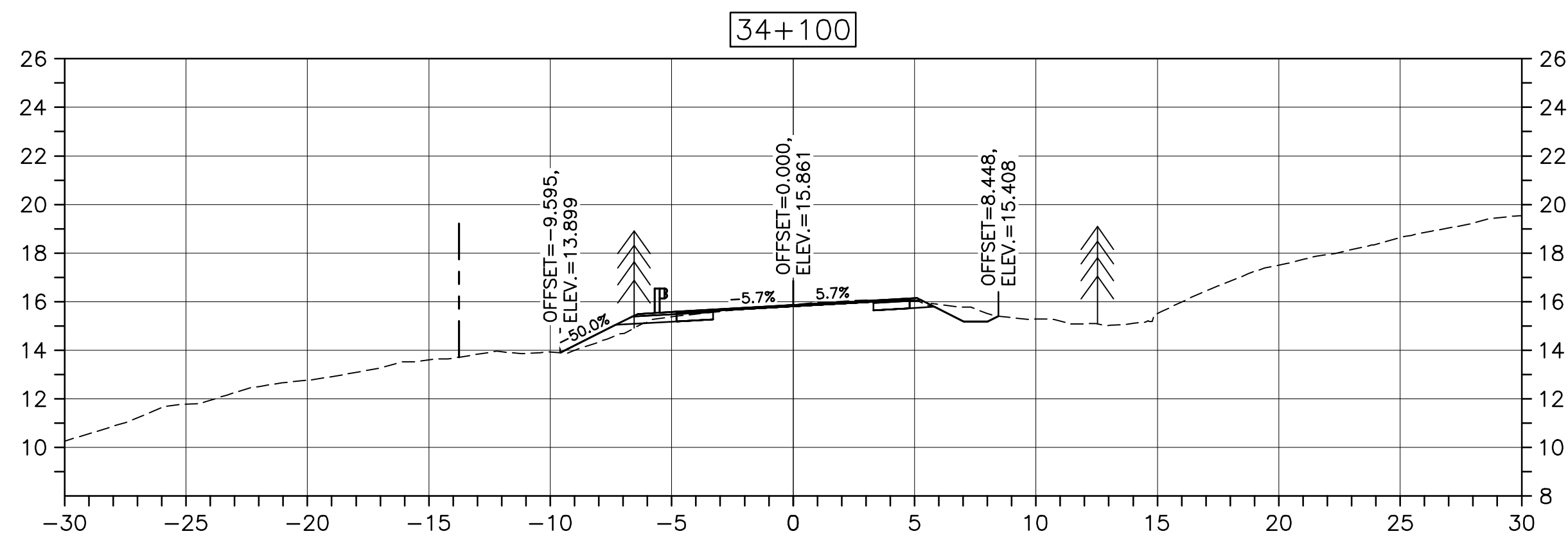
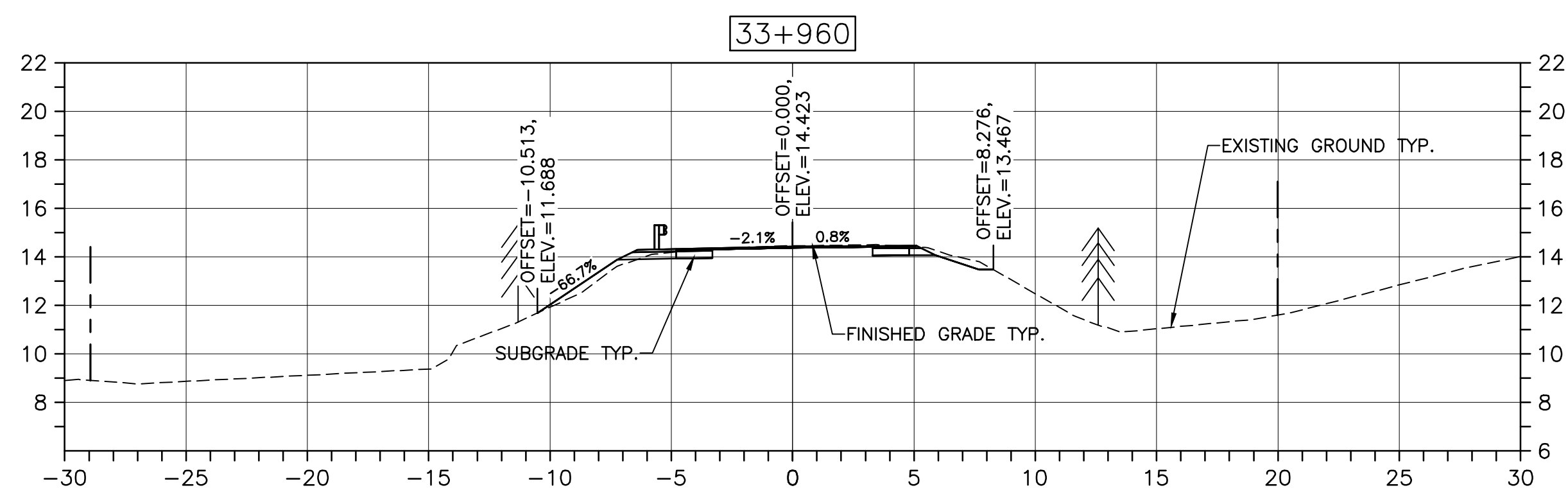
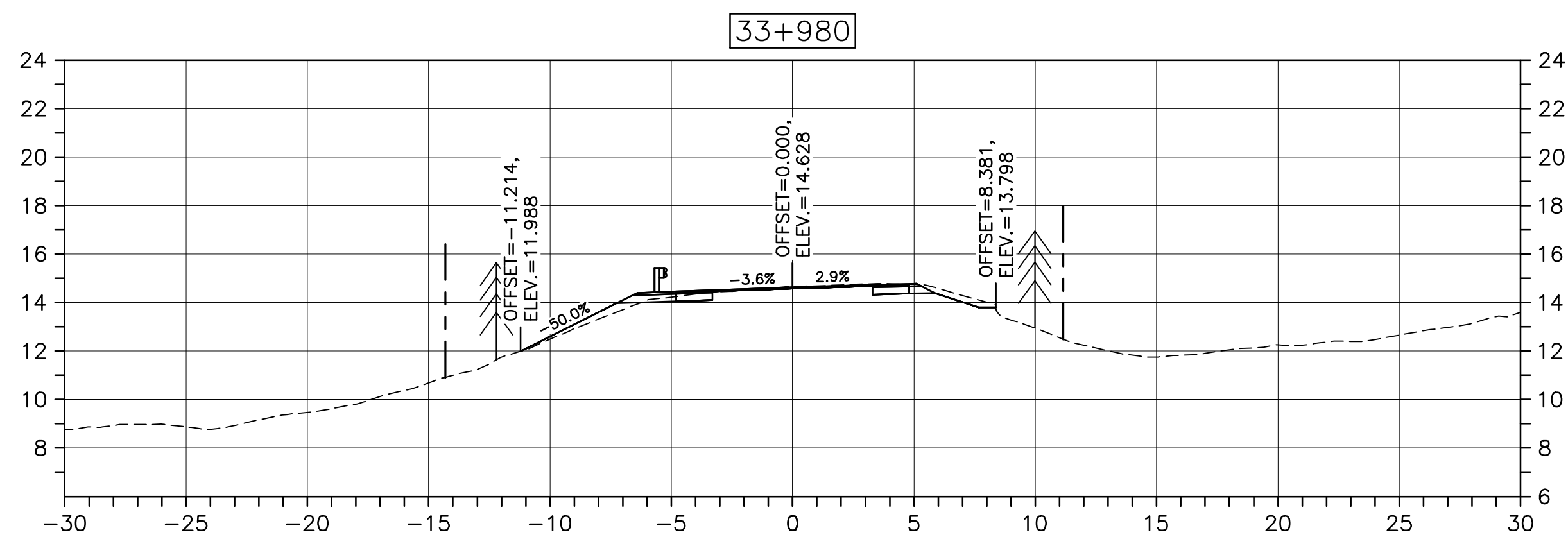
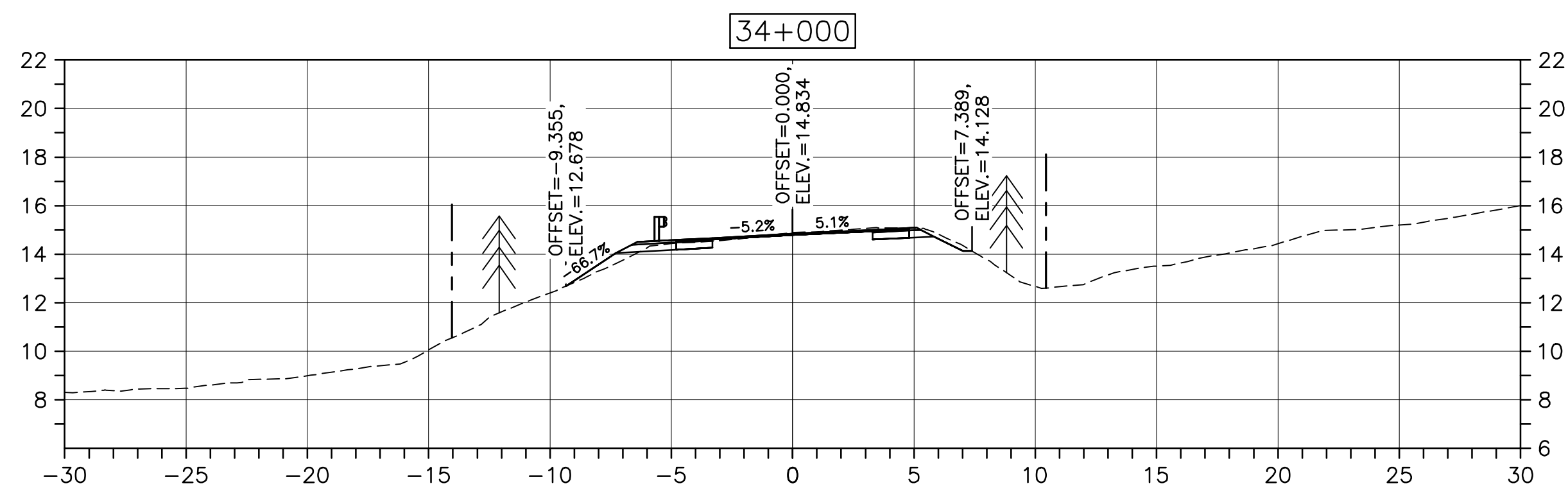
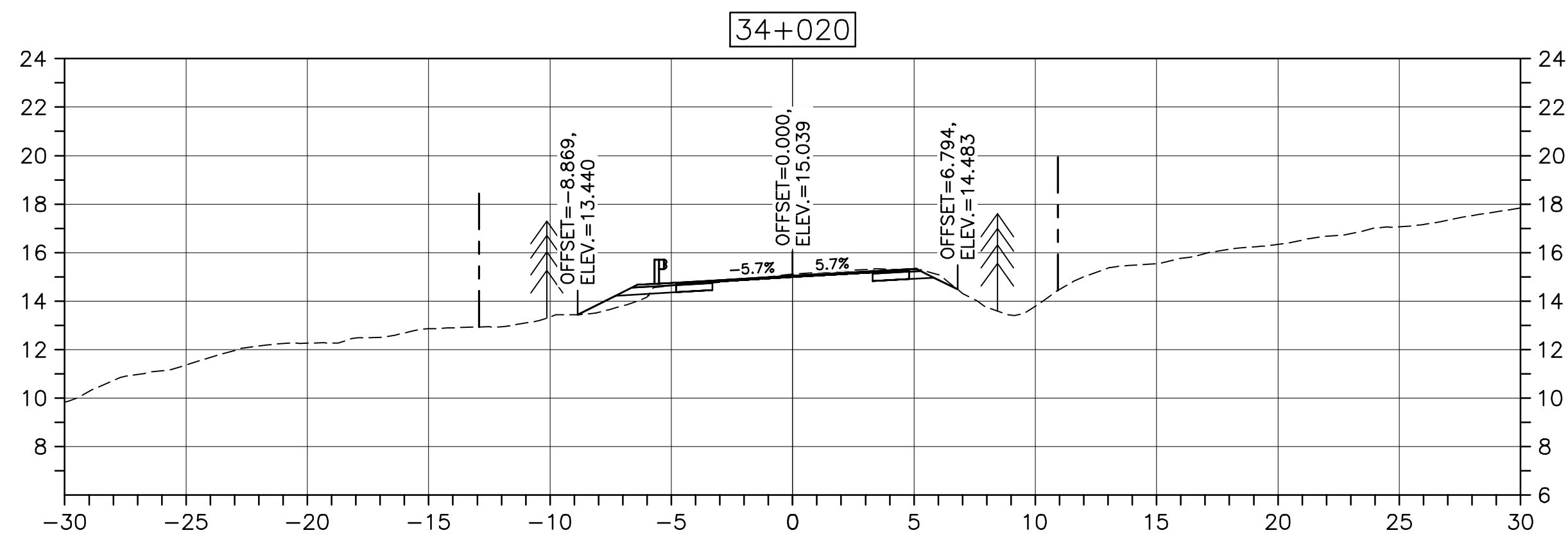
1114

drawing no.

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PWOSC A1 (2004)

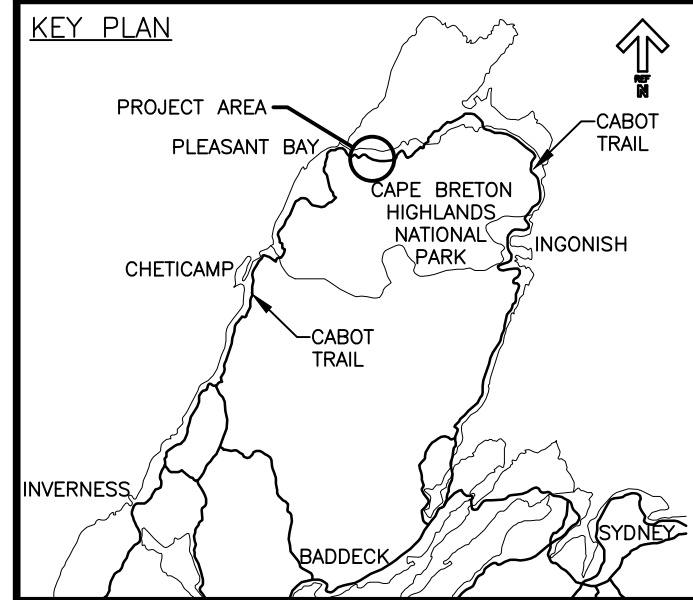


CROSS SECTIONS
SCALE: 1:200

0m 5m 10m 15m 20m 25m



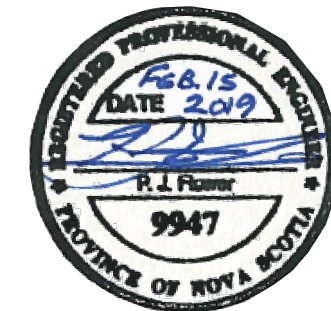
Parks Canada



LEGEND:

EXISTING TREELINE

CLEARING LIMIT



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project projet

CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing dessin

DESIGN SECTIONS

designed DSC	conçu
date MAY. 31, 2018	
drawn JLD/CCP	dessiné
date MAY. 31, 2018	
approved RMB	approuvé
date FEB. 15, 2019	

Tender Soumission
PCA Project Manager Administrateur de projets PCA

project number no. du projet

1114

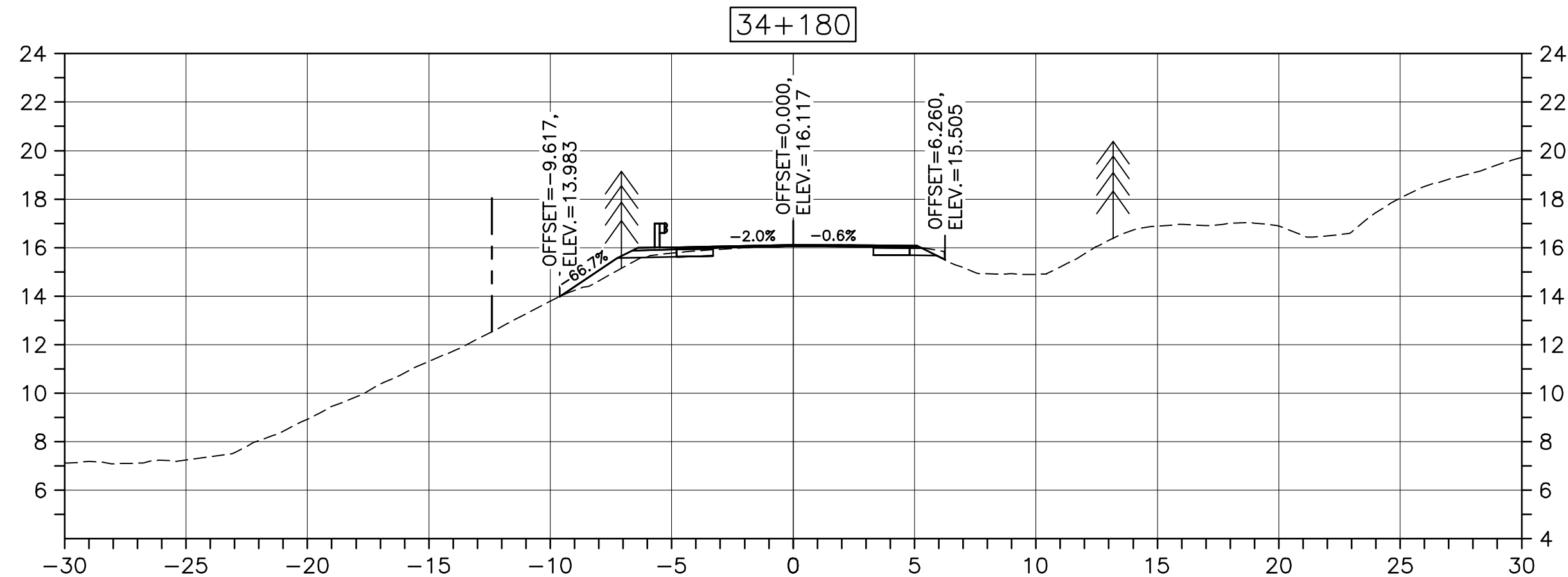
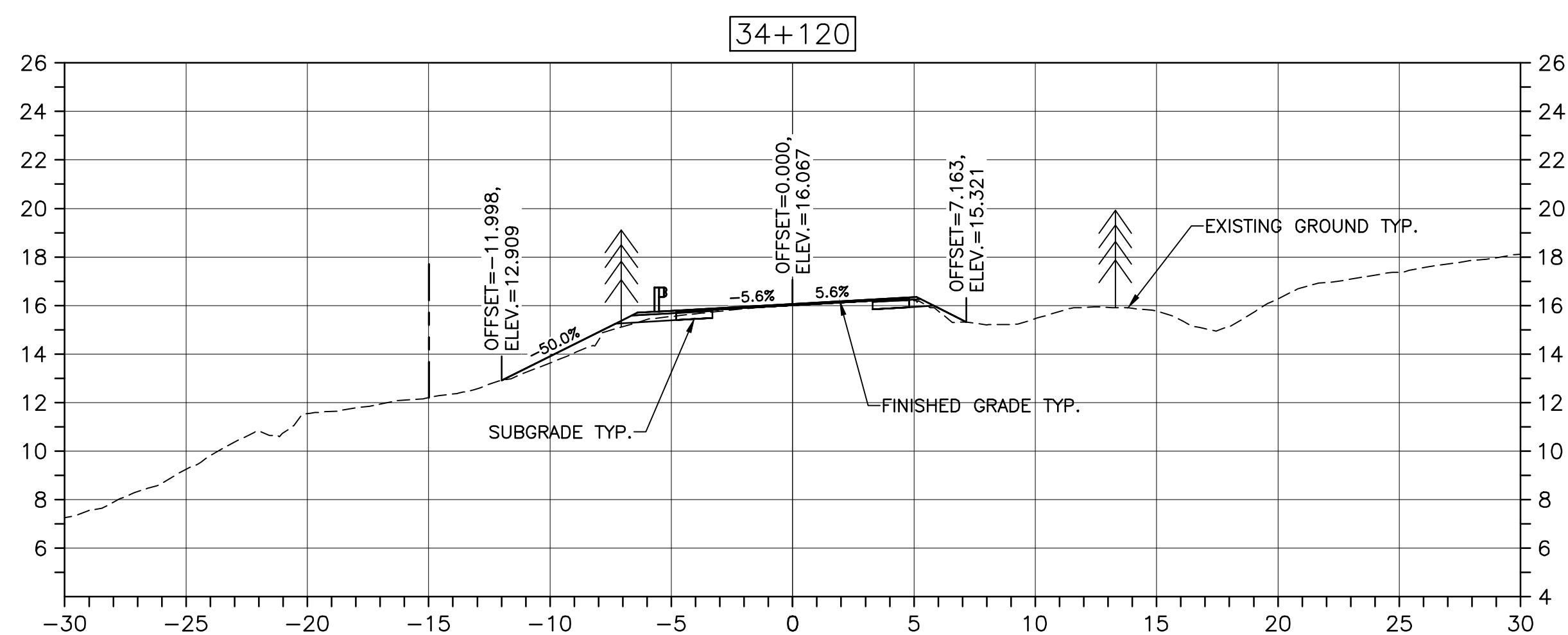
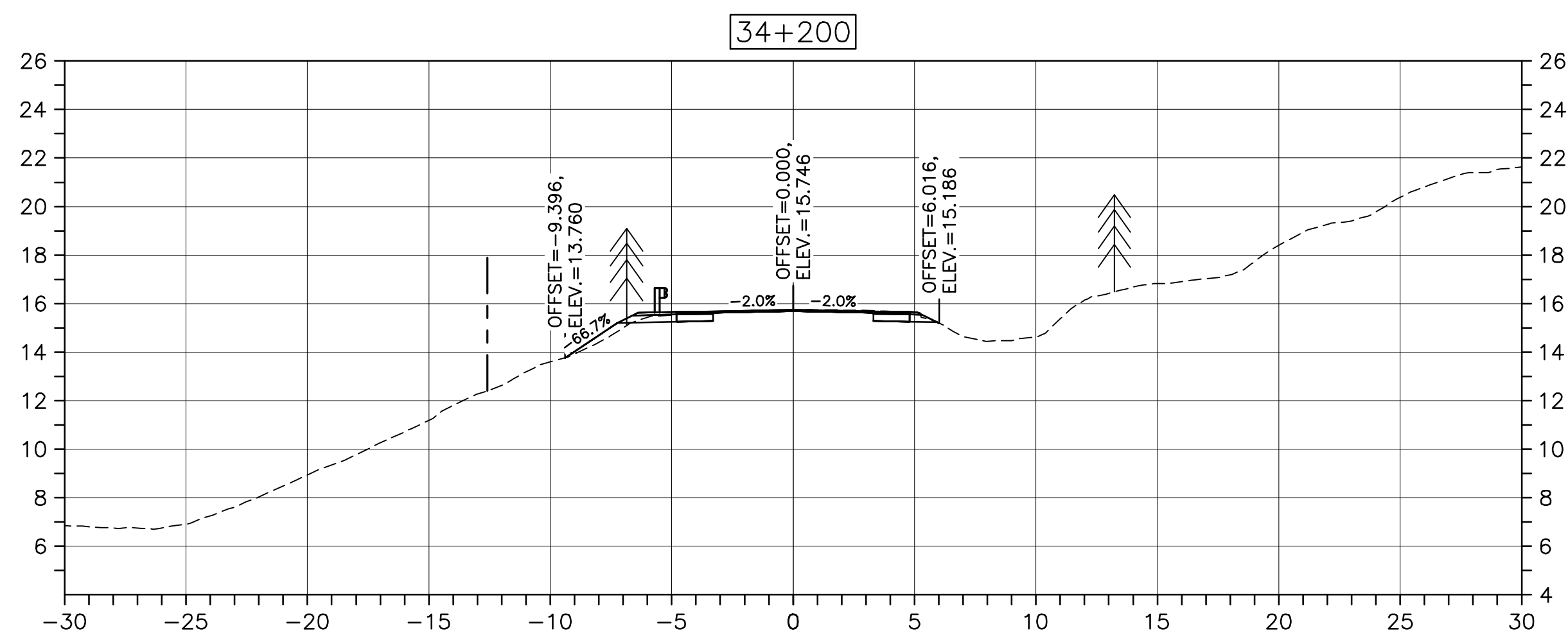
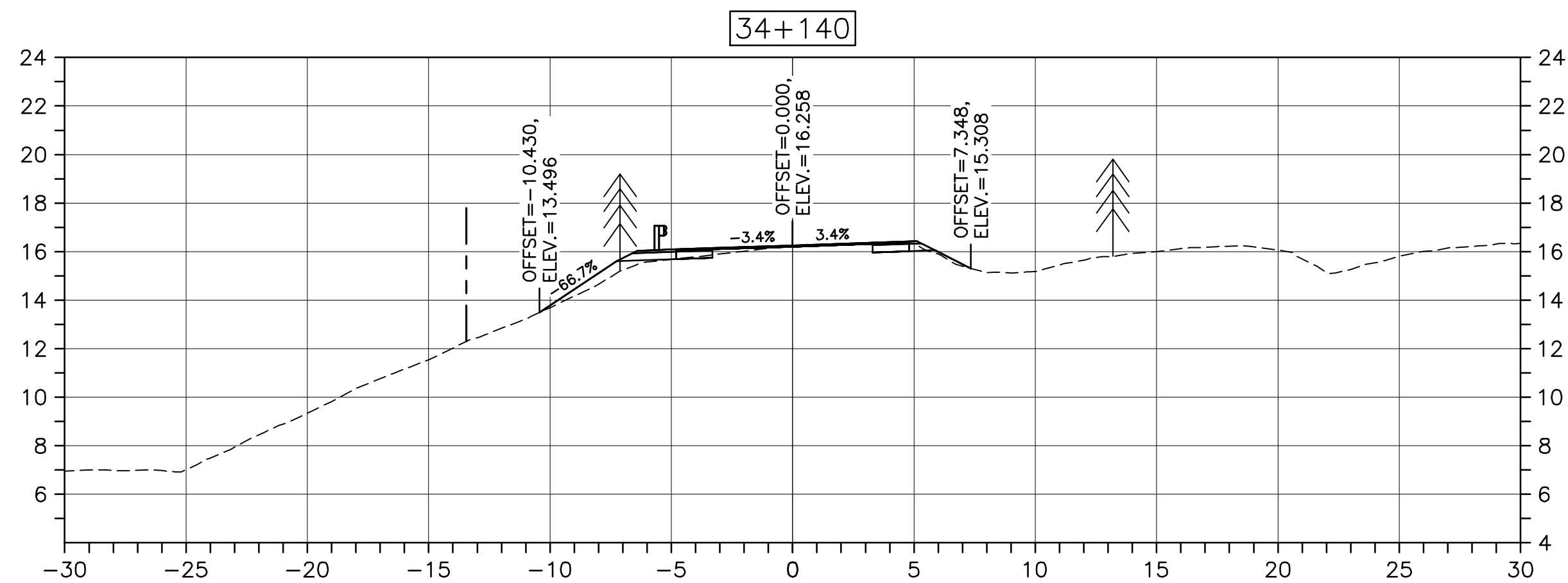
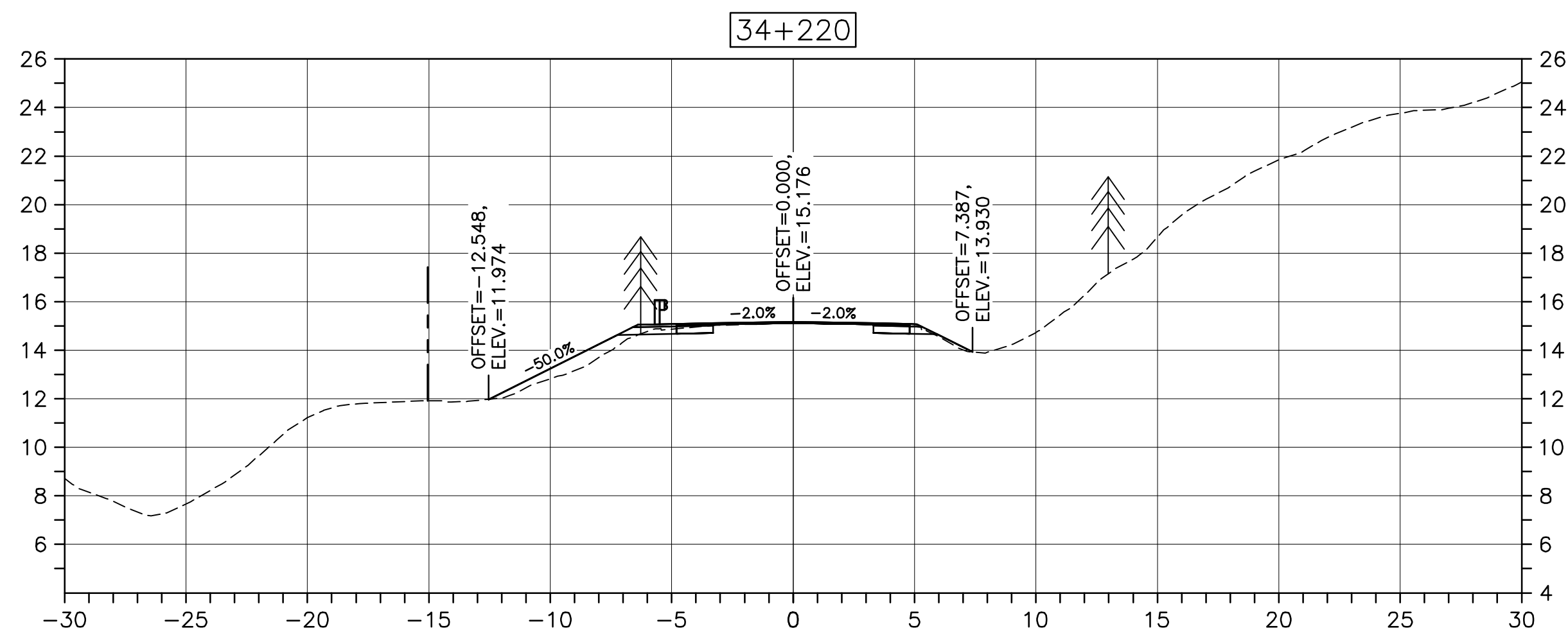
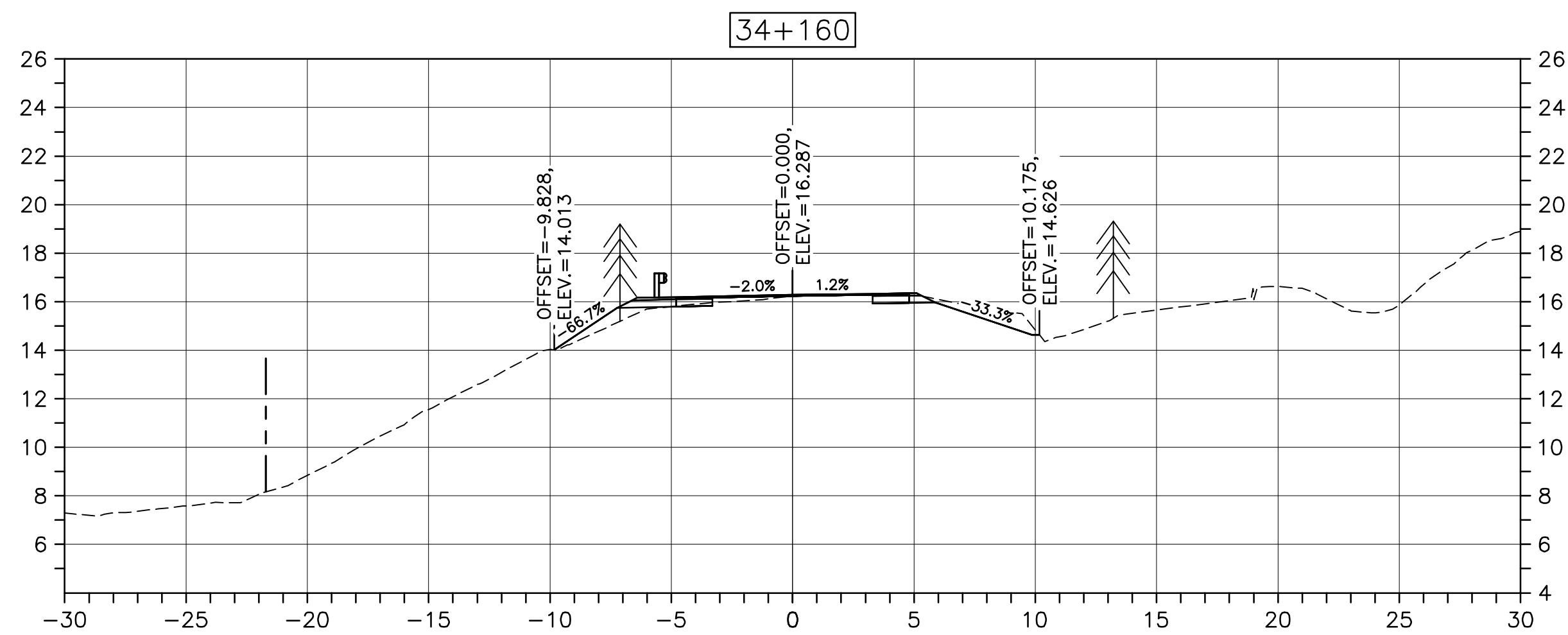
drawing no. no. du dessin

C-45

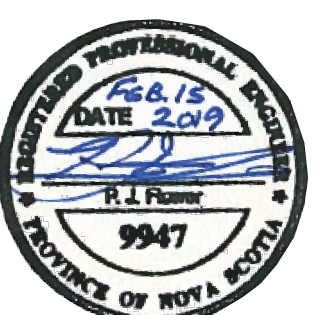
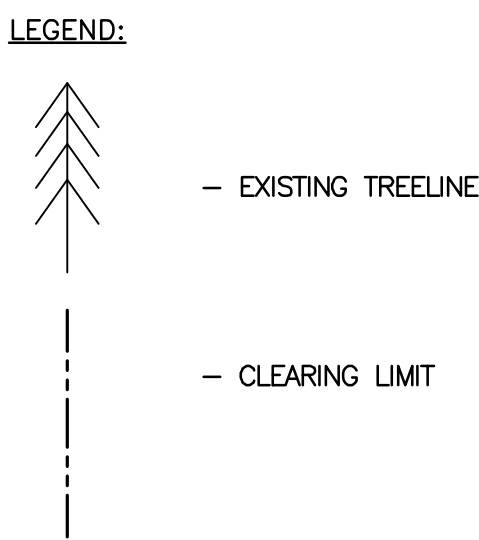
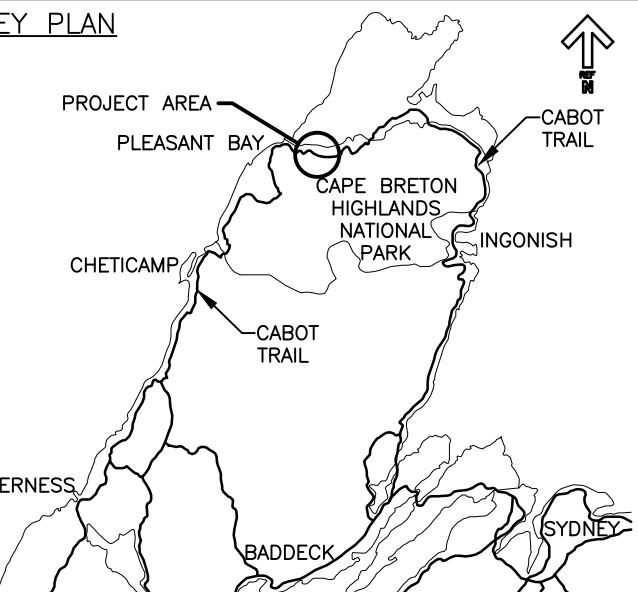
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PWOSC A1 (2004)



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revisions		date

project

CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

project

drawing

dessin

DESIGN SECTIONS

designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	

Tender

PCA Project Manager

Soumission

Administrateur de projets PCA

project number

no. du projet

1114

drawing no.

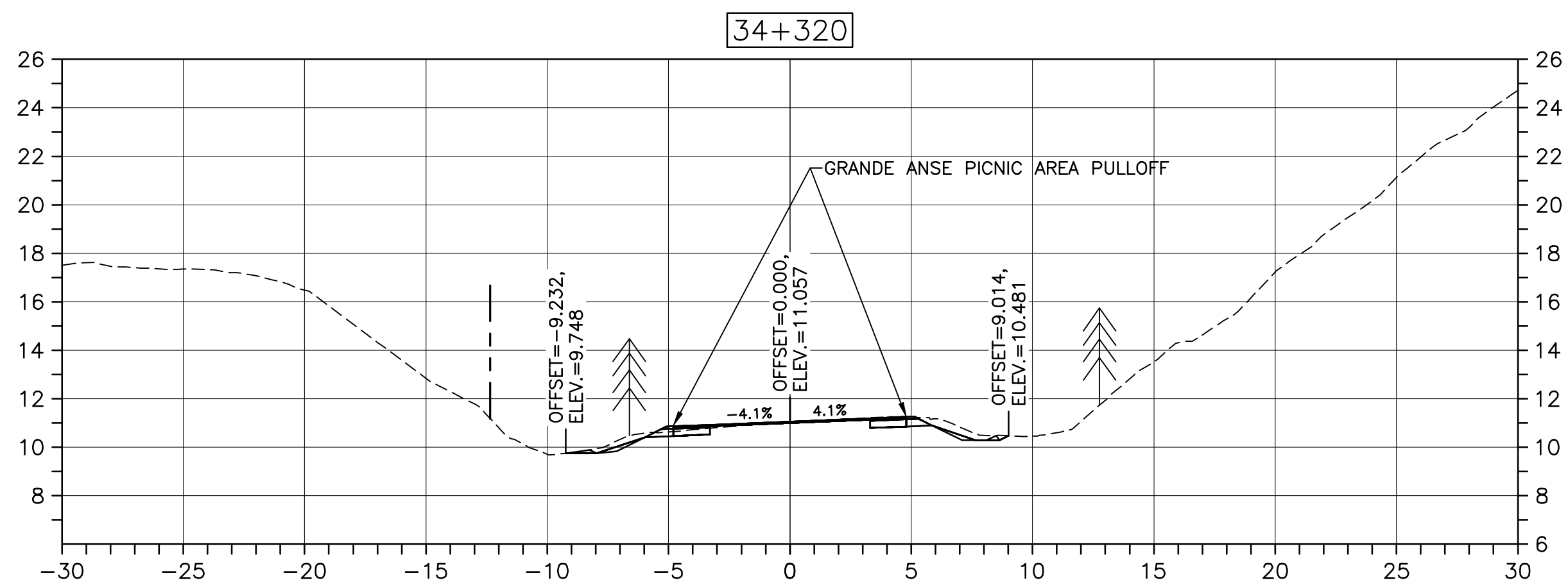
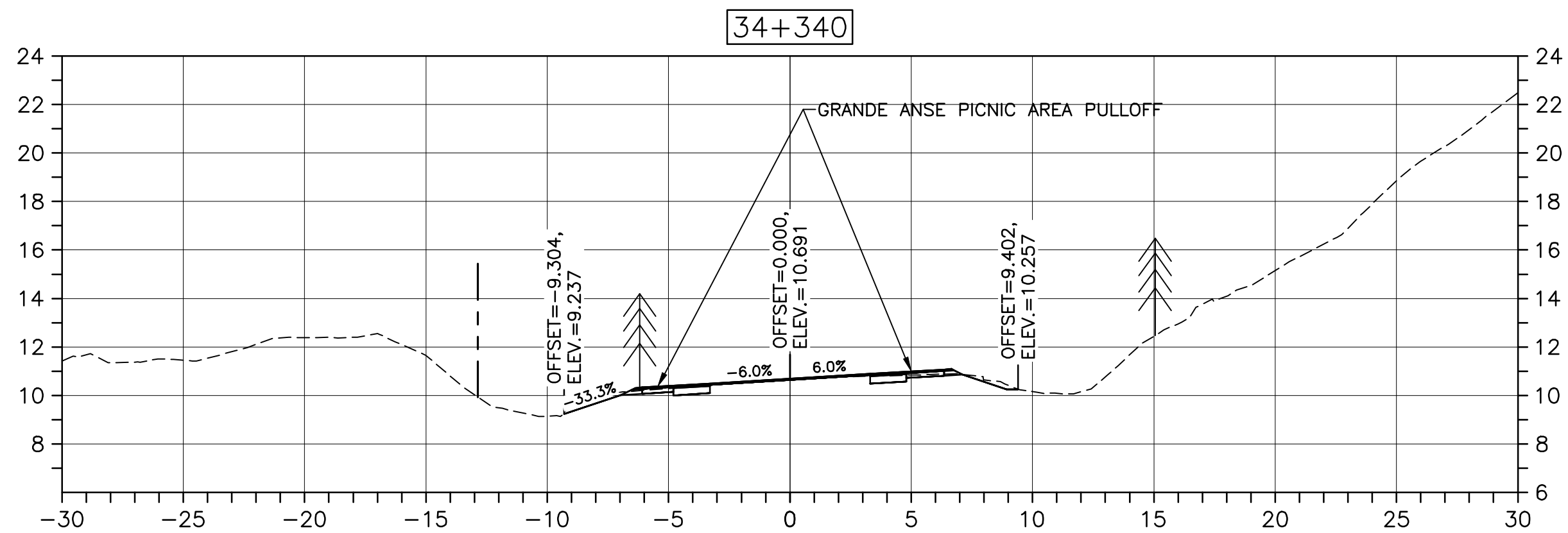
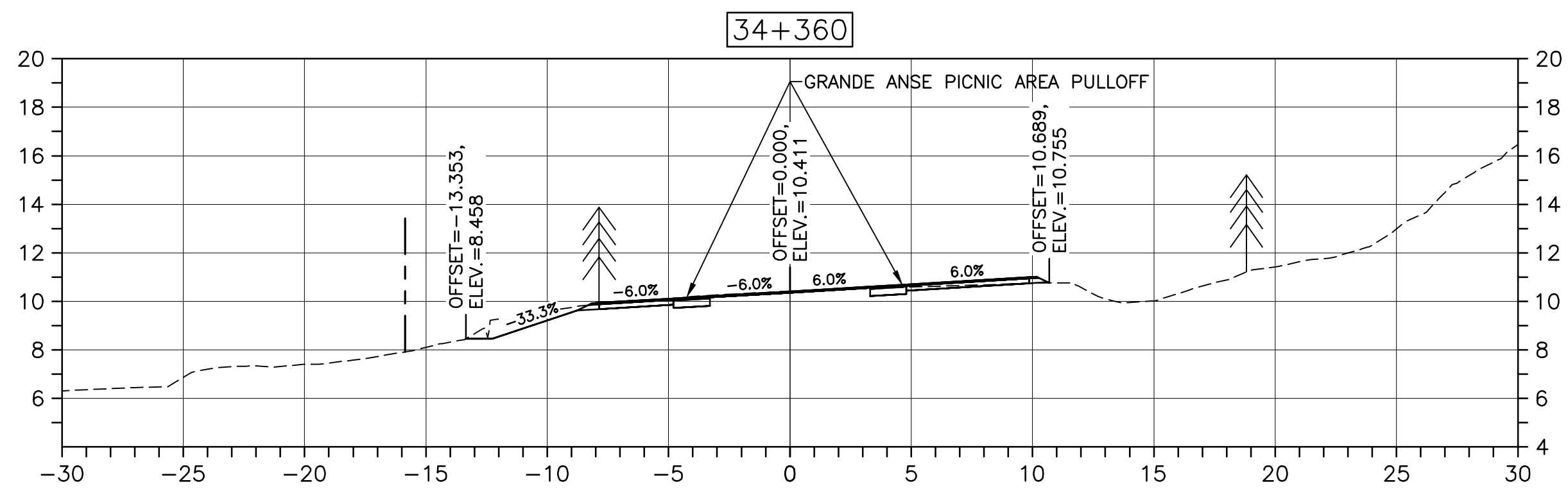
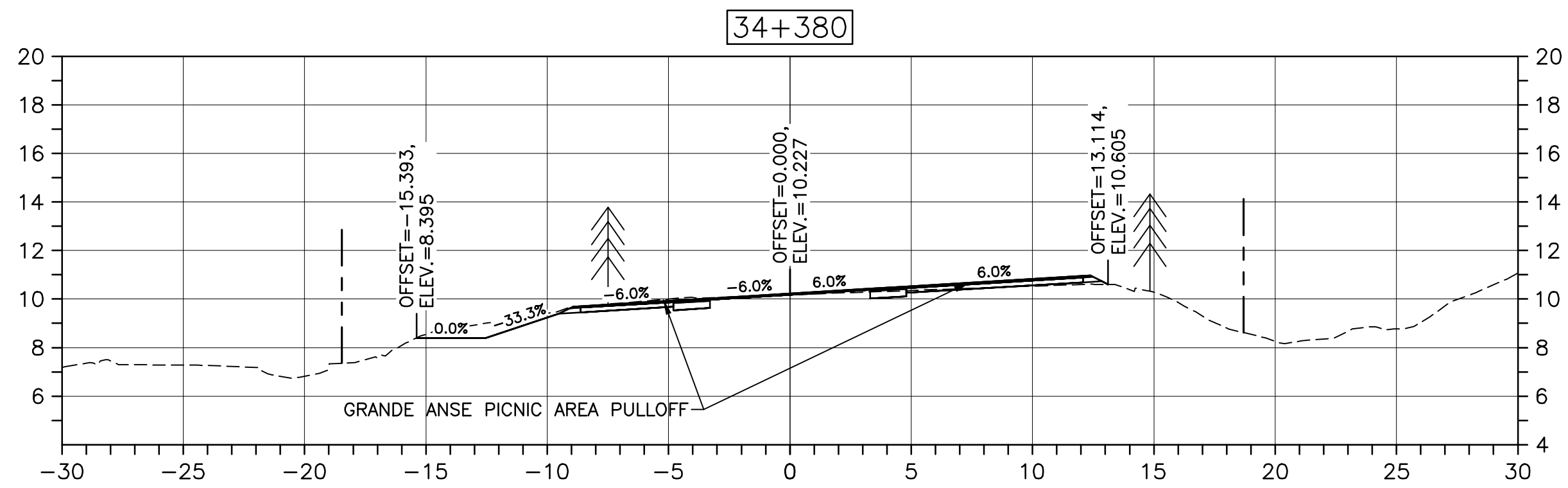
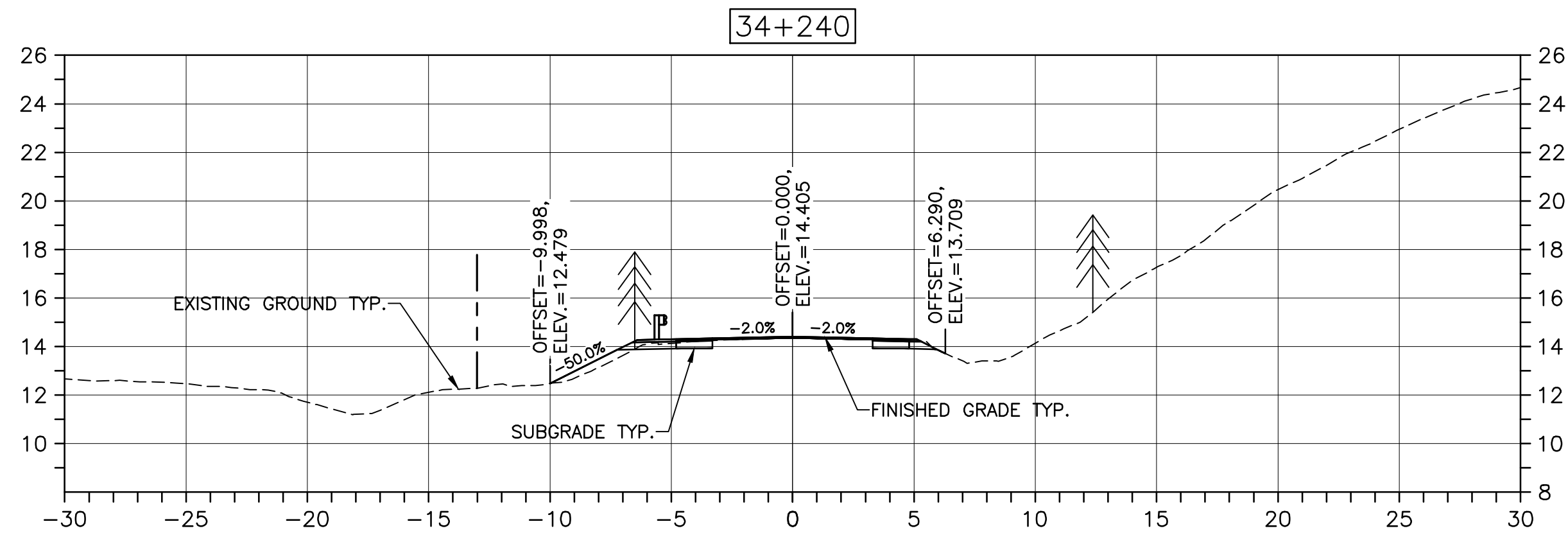
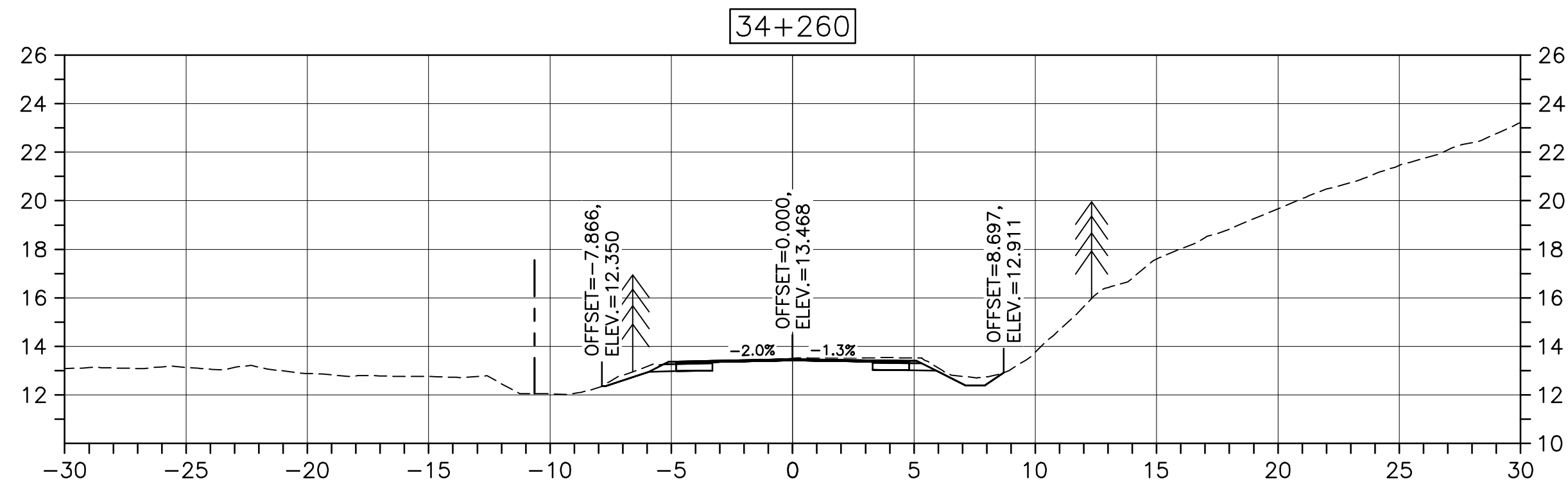
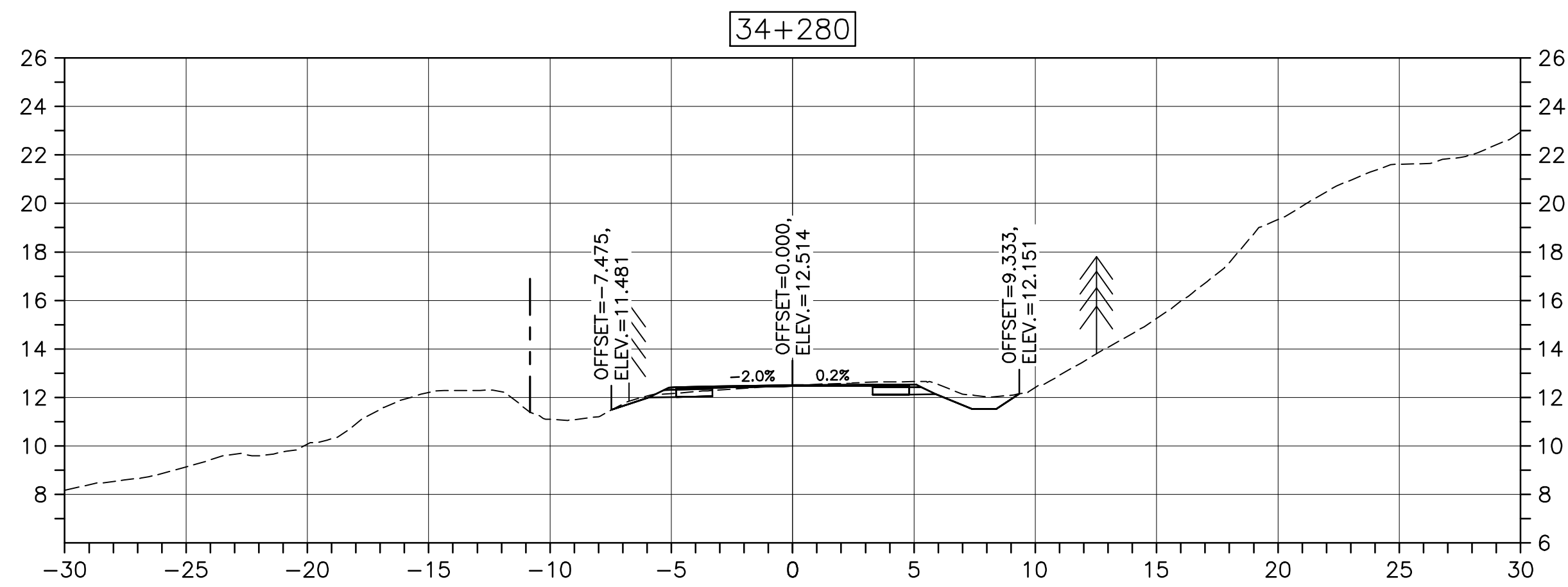
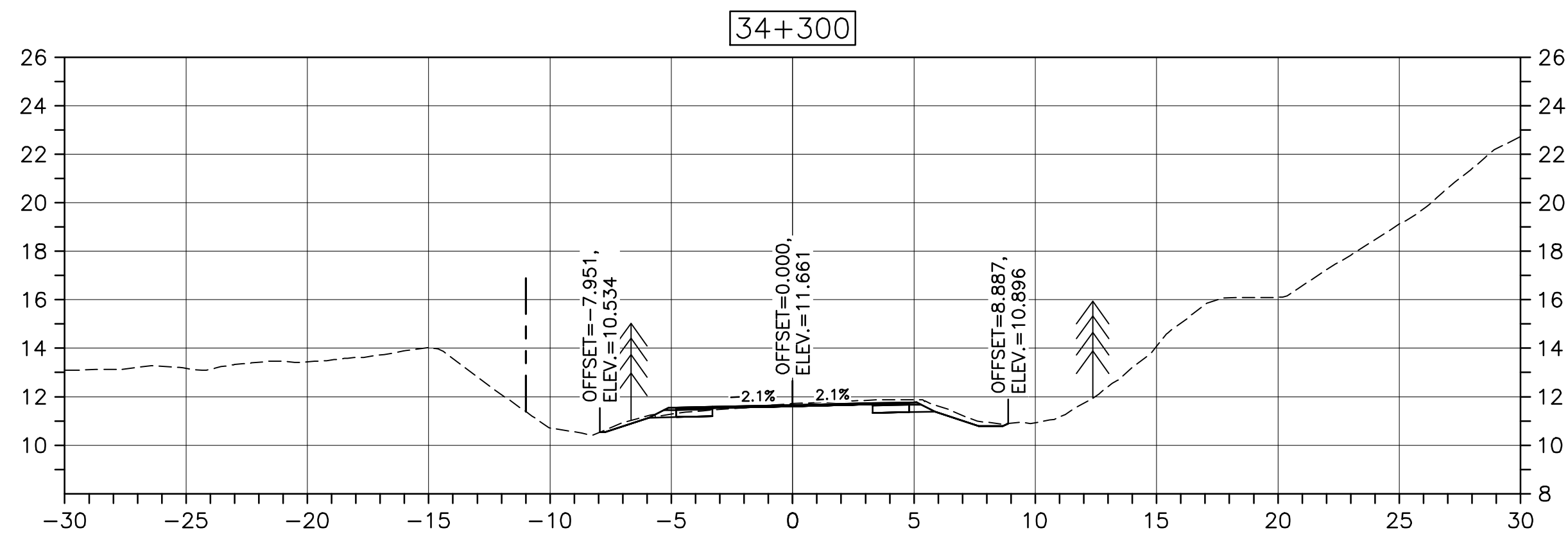
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C-46

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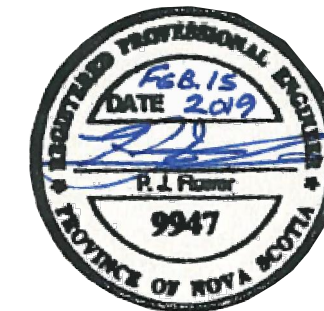
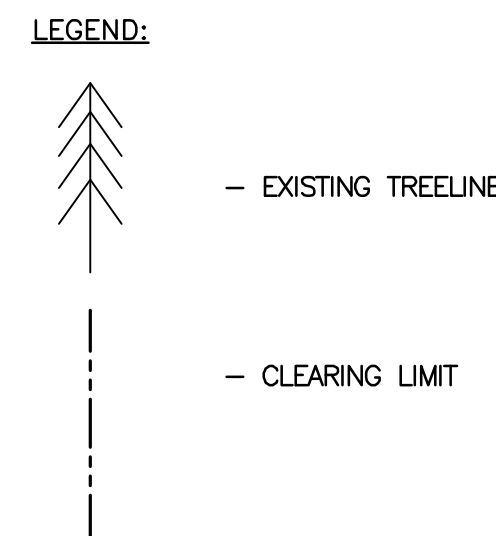
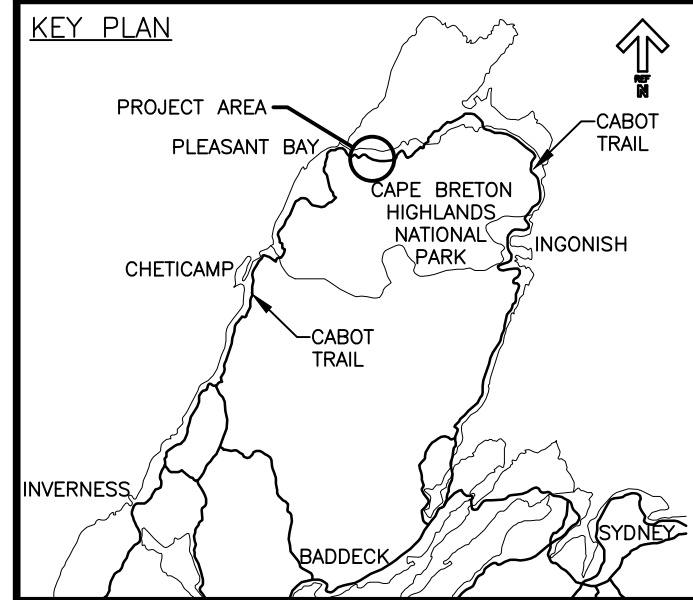
PWOSC A1 (2004)



CROSS SECTIONS
SCALE: 1:200
0m 5m 10m 15m 20m 25m



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0	ISSUED FOR TENDER	02/15 2019
revisions		date

project	project
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CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing	dessin
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DESIGN SECTIONS

designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	

Tender	Soumission
PCA Project Manager	Administrateur de projets PCA

project number	no. du projet
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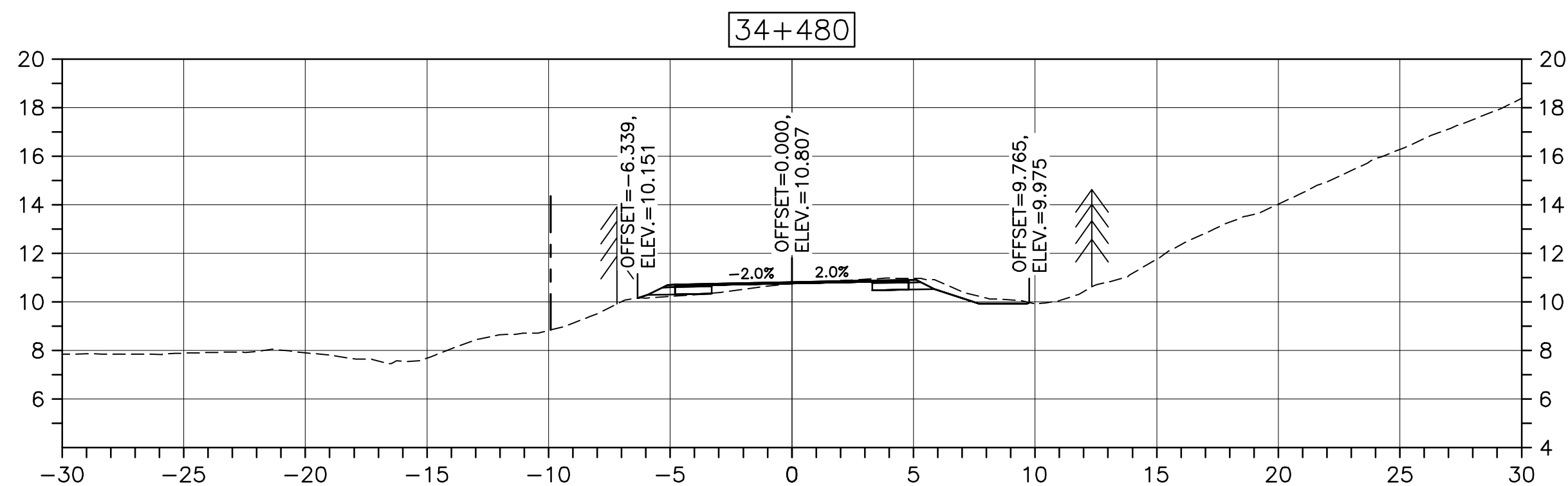
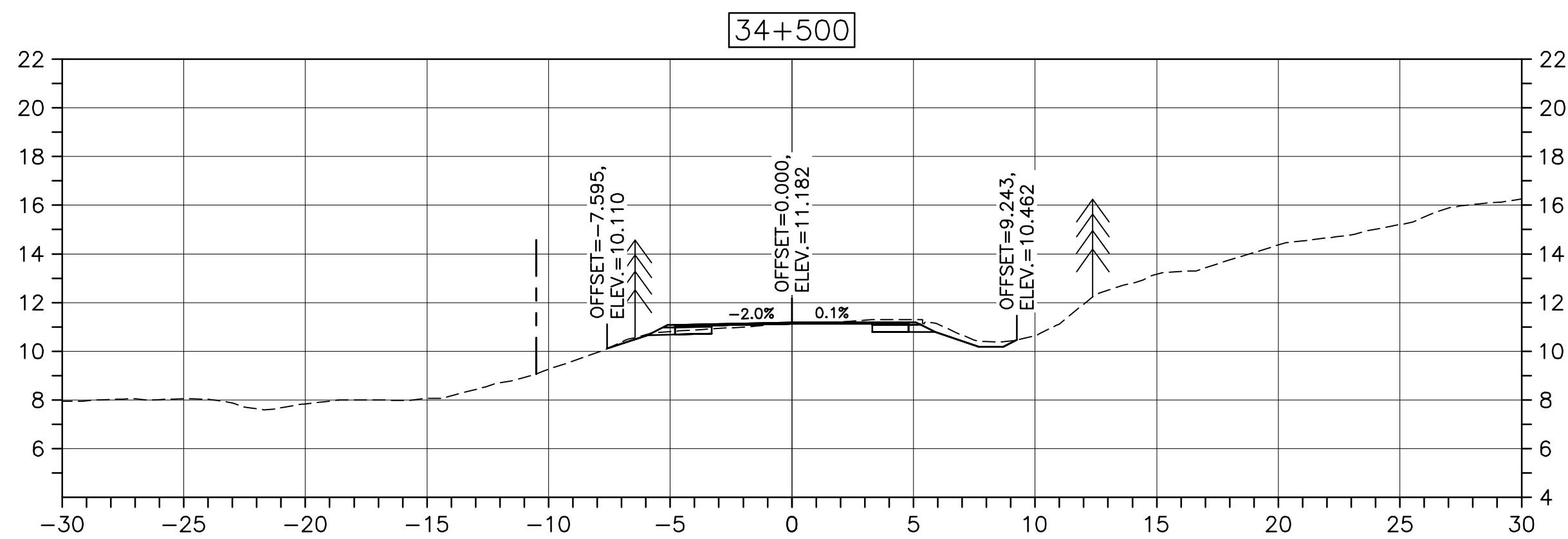
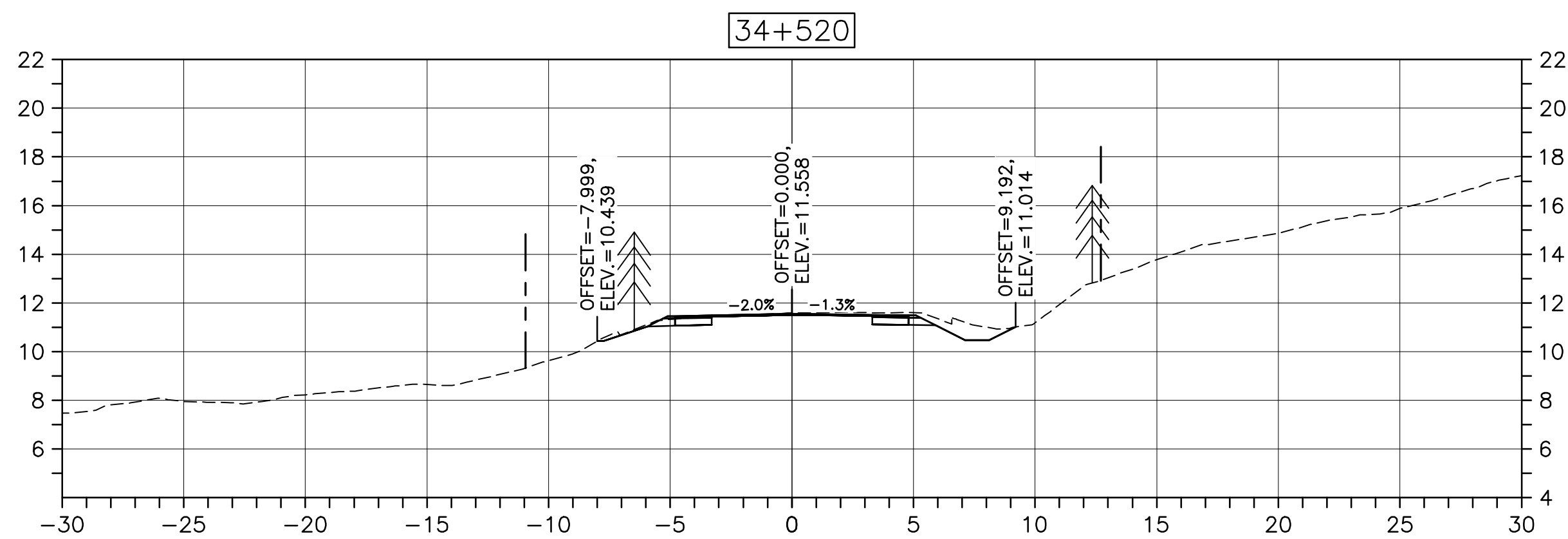
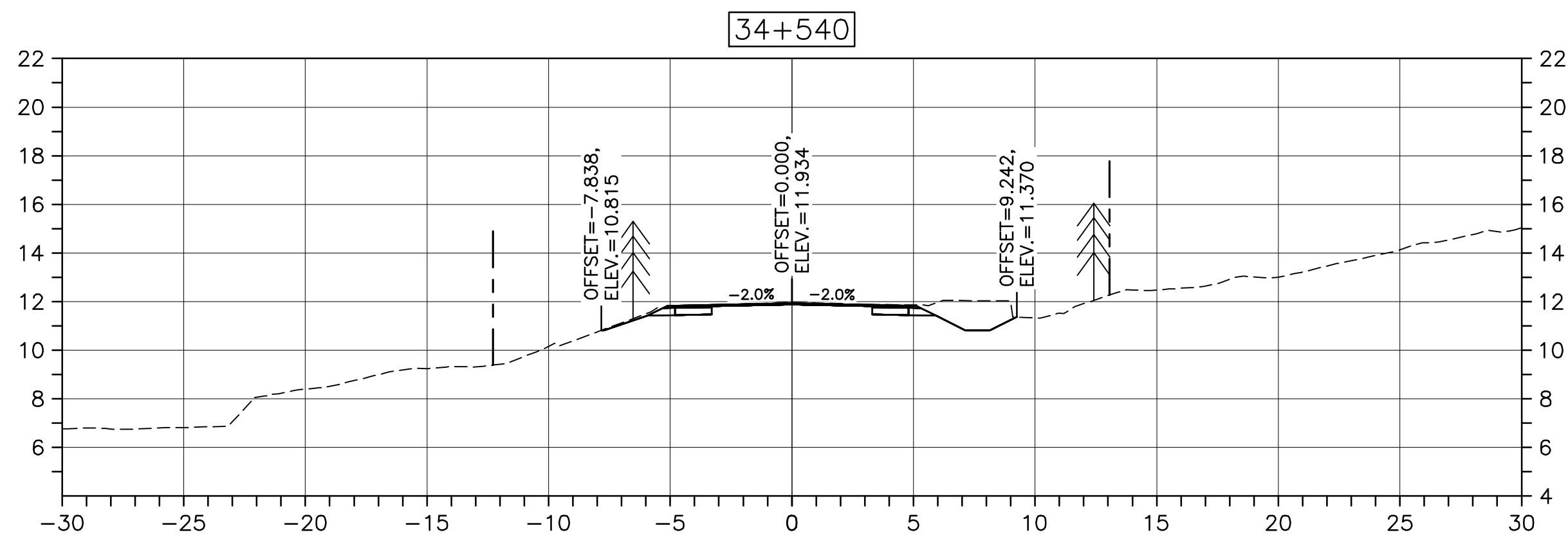
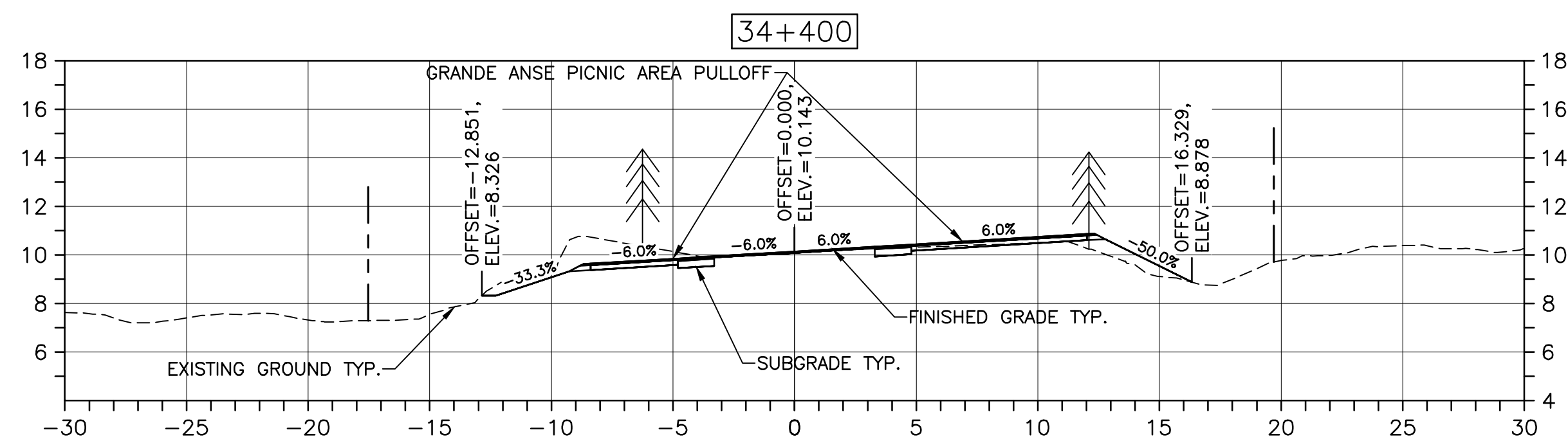
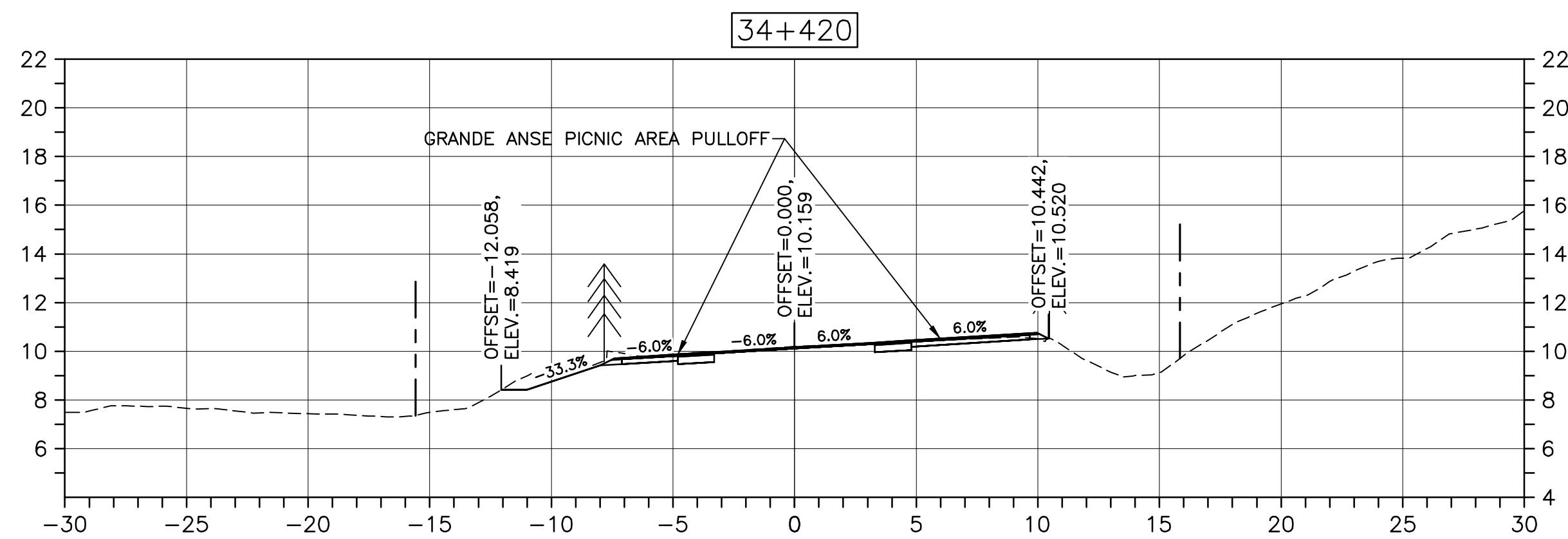
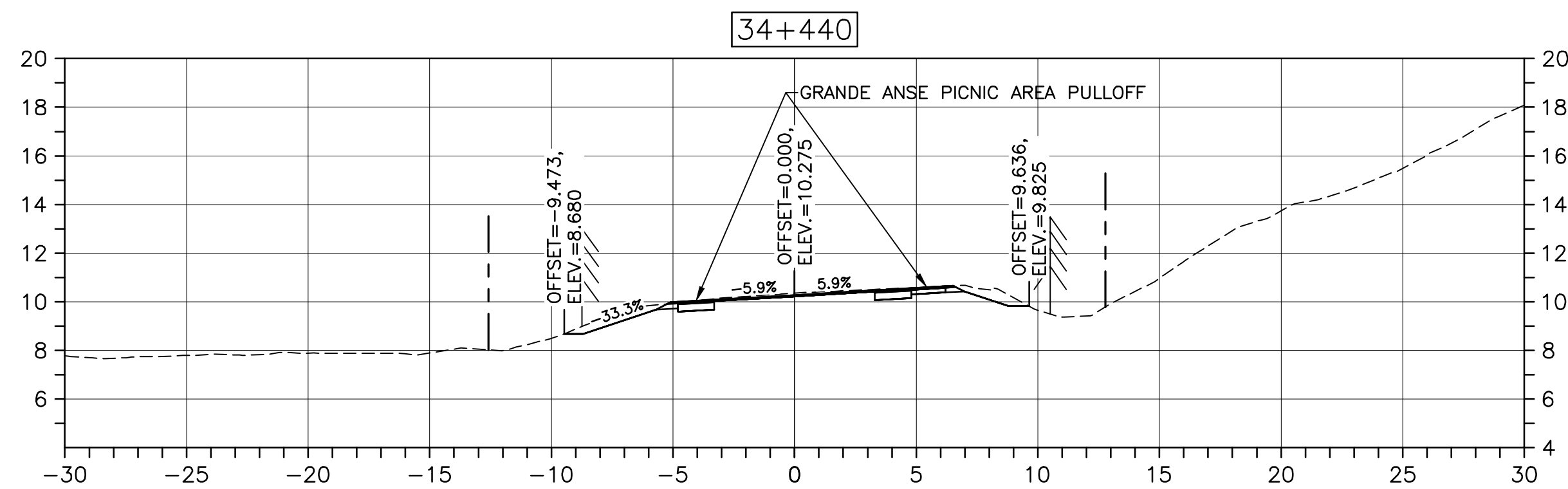
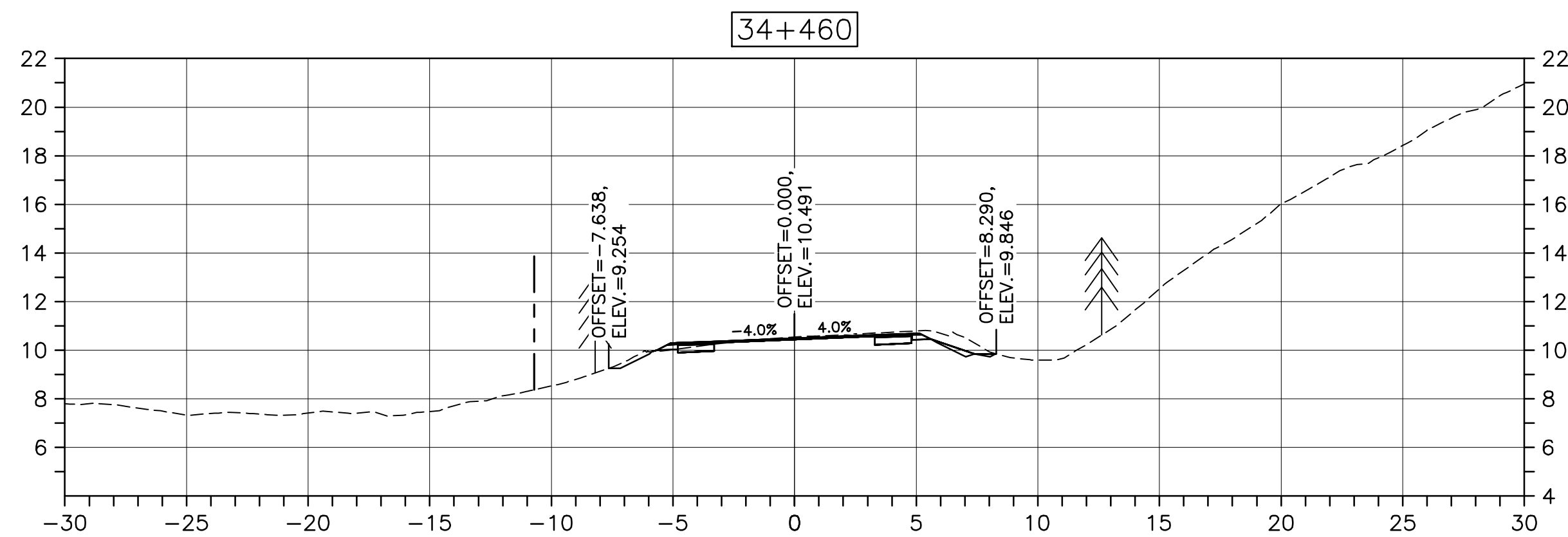
drawing no.	no. du dessin
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C-47

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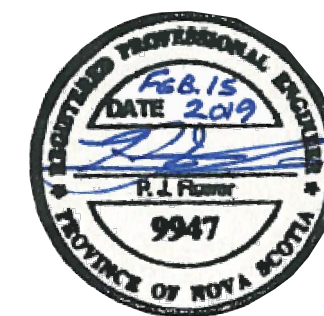
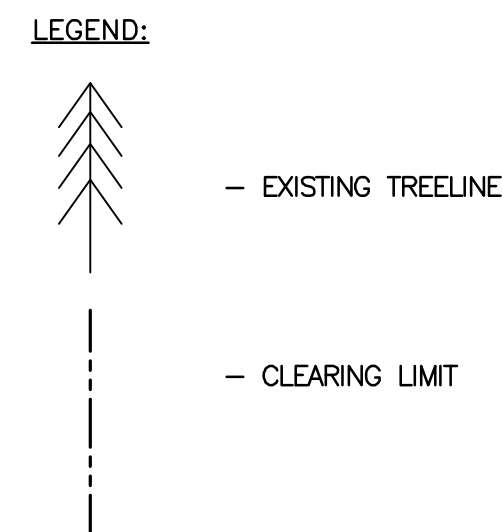
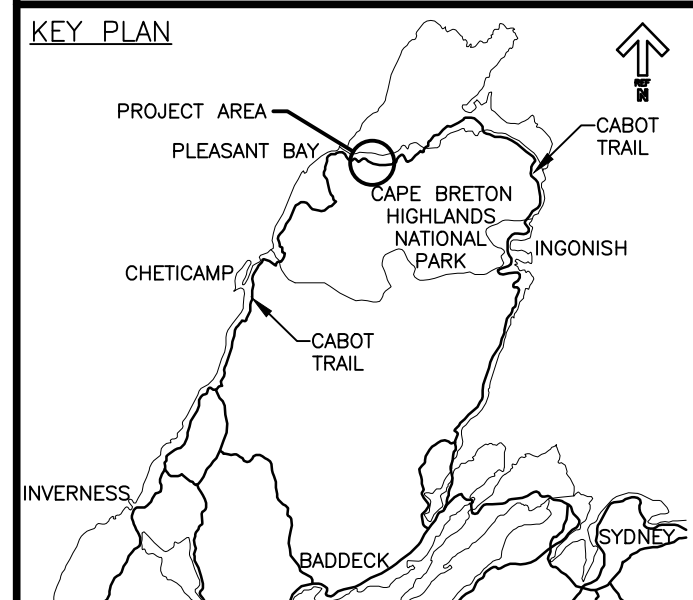
PWGSC A1 (2004)



CROSS SECTIONS
SCALE: 1:200
0m 5m 10m 15m 20m 25m




Parks Canada



0	ISSUED FOR TENDER	02/15 2019
revisions		date
project	CABOT TRAIL REHABILITATION PLEASANT BAY TO NORTH MOUNTAIN CAPE BRETON HIGHLANDS NATIONAL PARK	
project		

drawing dessin

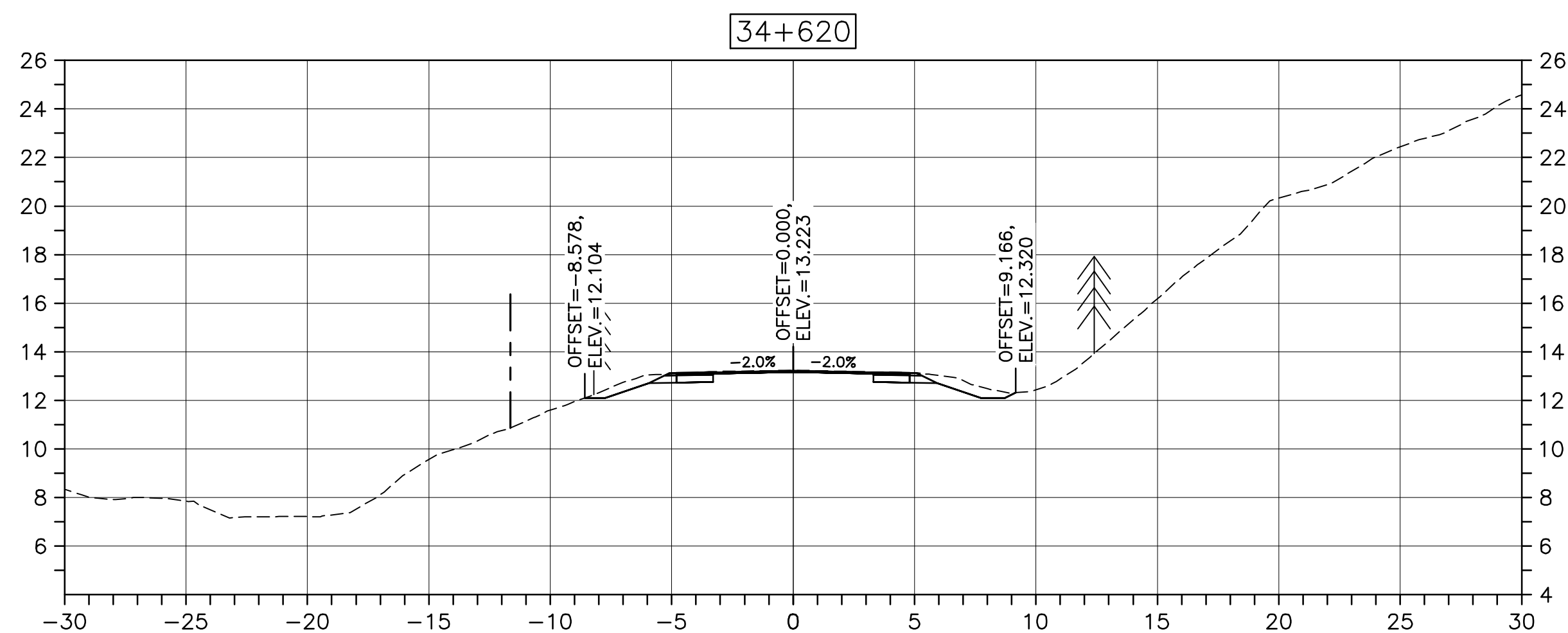
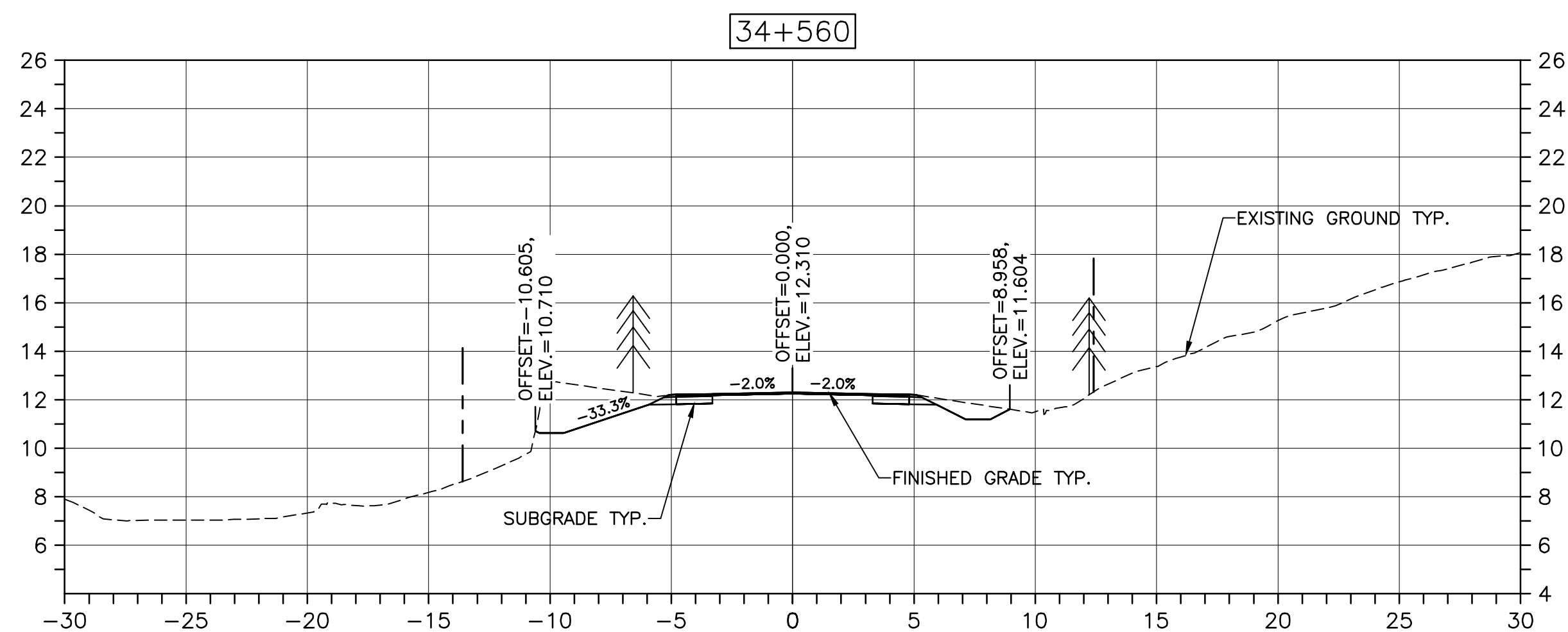
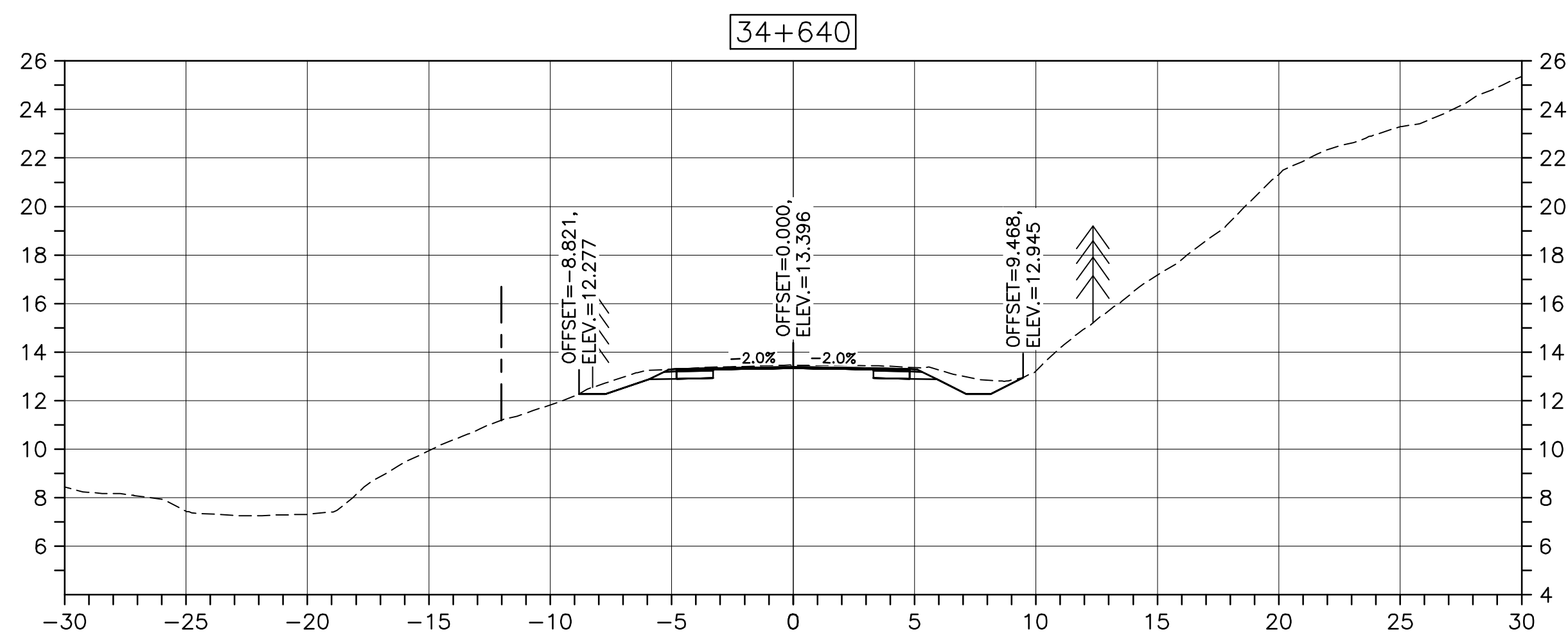
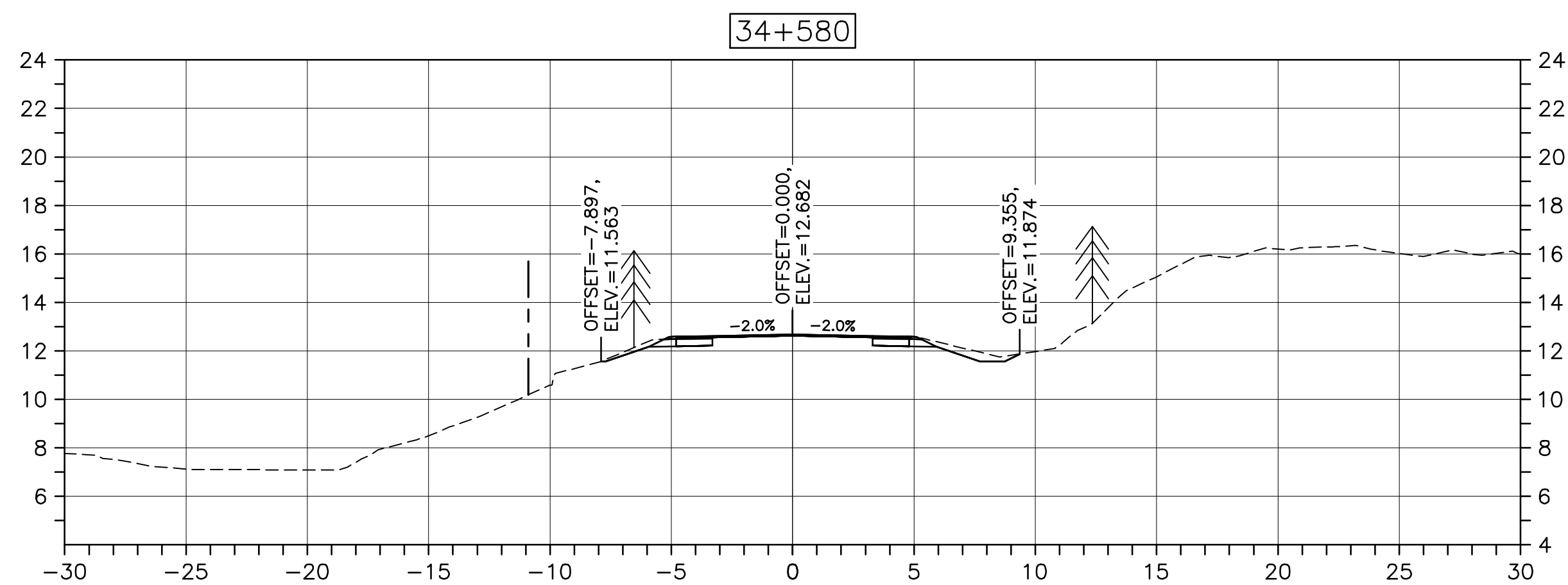
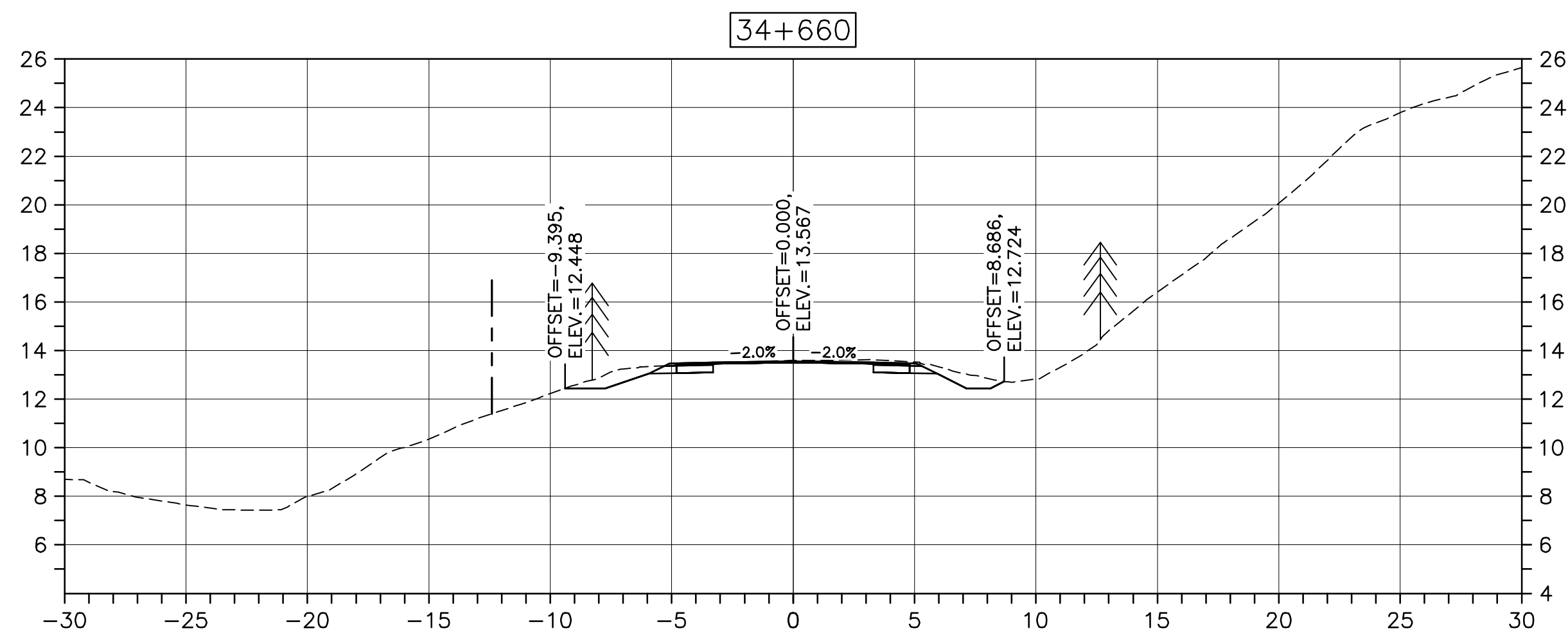
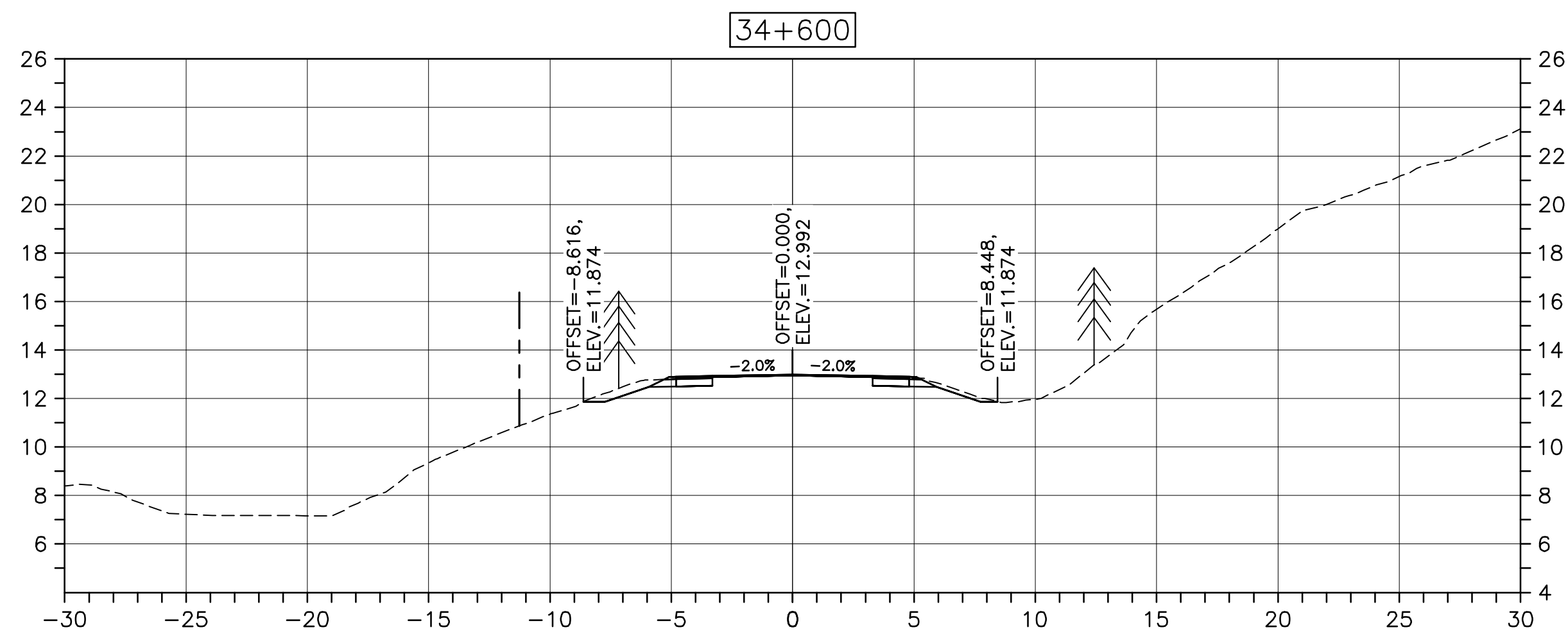
DESIGN SECTIONS

designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
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approved	RMB	approuvé
date	FEB. 15, 2019	
Tender	Soumission	
	FEB. 15, 2019	
PCA Project Manager	Administrateur de projets PCA	
project number	no. du projet	
1114		
drawing no.	no. du dessin	

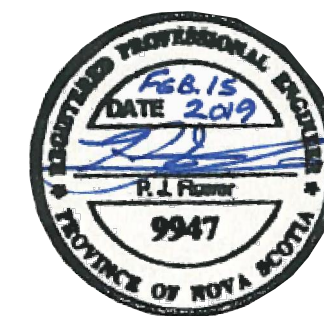
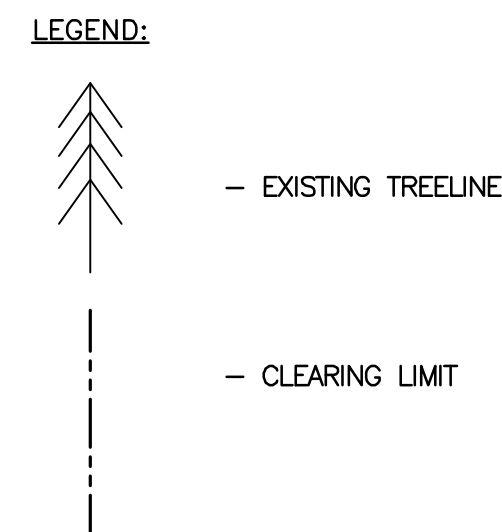
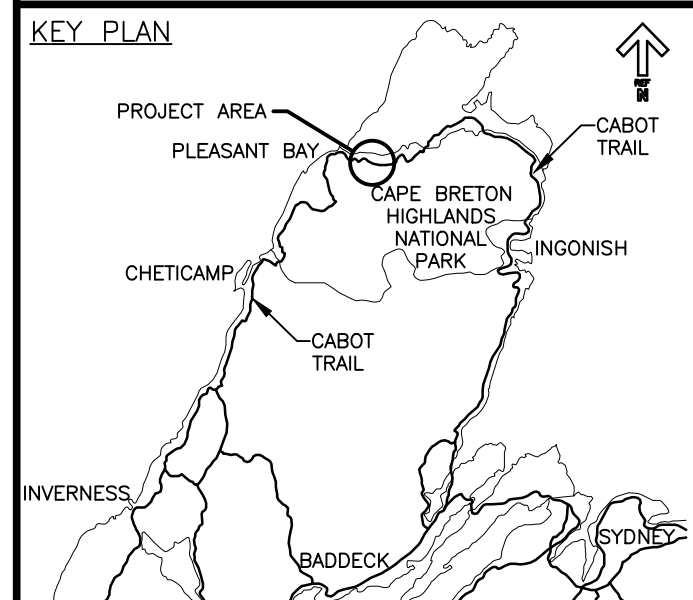
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PWGSC A1 (2004)



Parks Canada



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project CABOT TRAIL REHABILITATION PLEASANT BAY TO NORTH MOUNTAIN CAPE BRETON HIGHLANDS NATIONAL PARK

drawing dessin

DESIGN SECTIONS

designed DSC	conçu
date MAY. 31, 2018	
drawn JLD/CCP	dessiné
date MAY. 31, 2018	
approved RMB	approuvé
date FEB. 15, 2019	

Tender PCA Project Manager

project number

no. du projet

drawing no.

no. du dessin

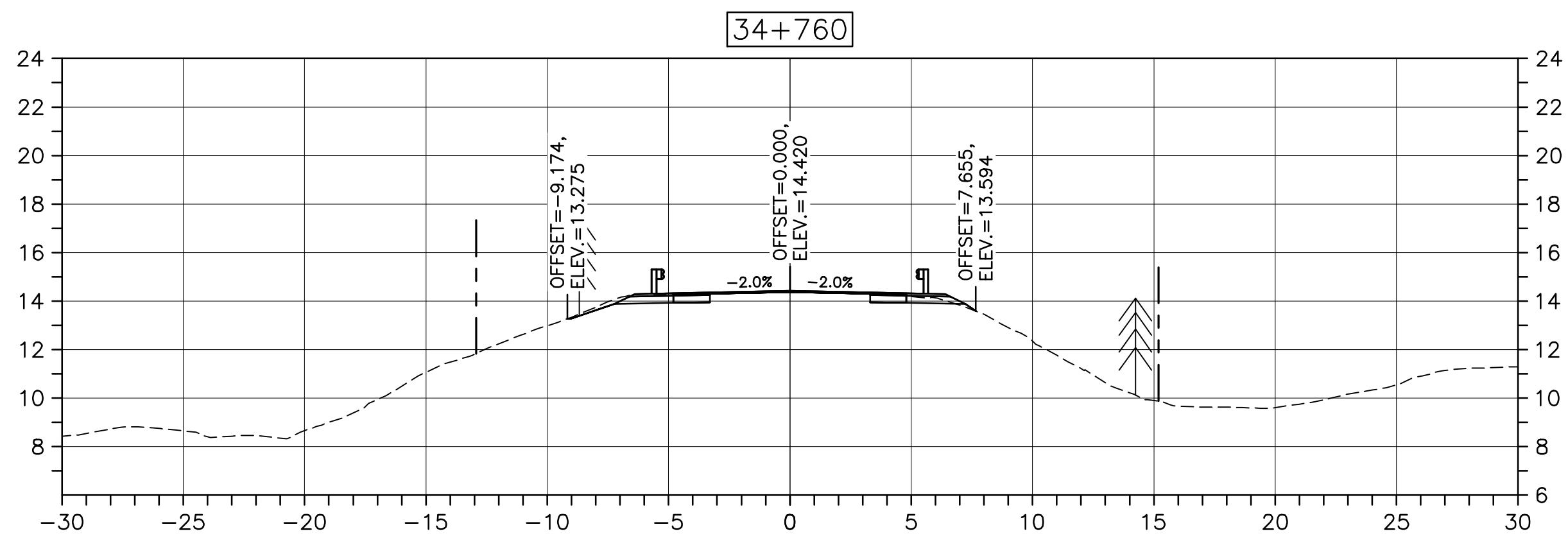
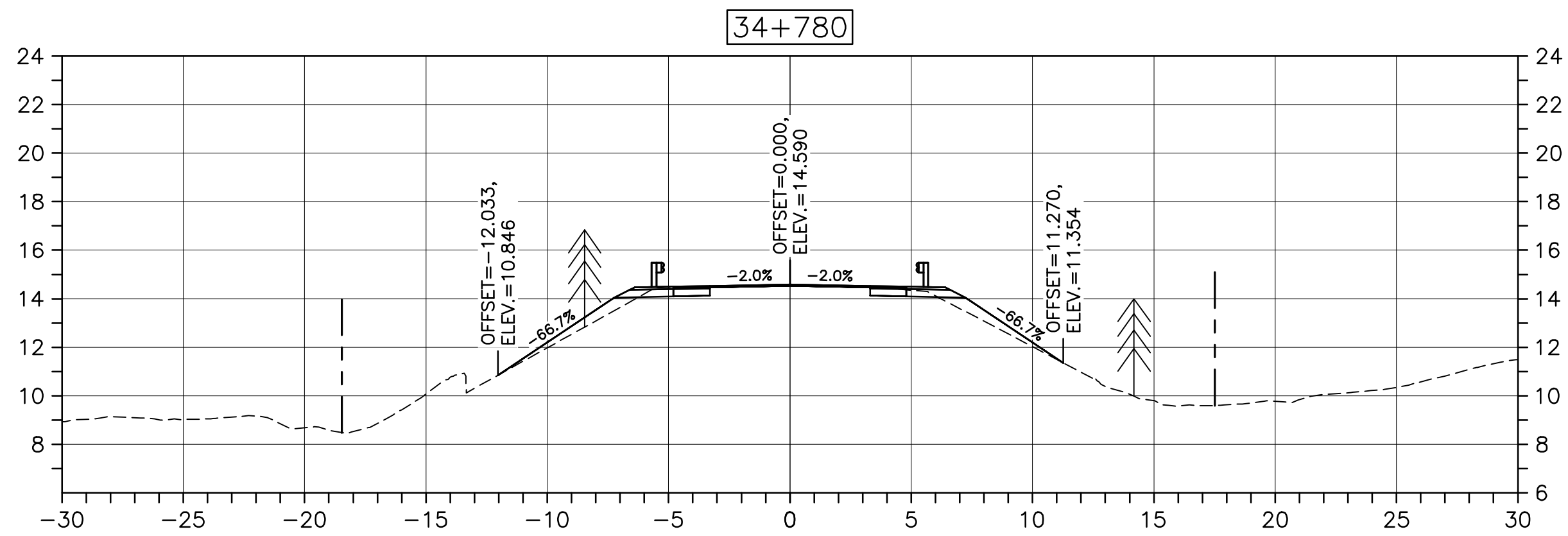
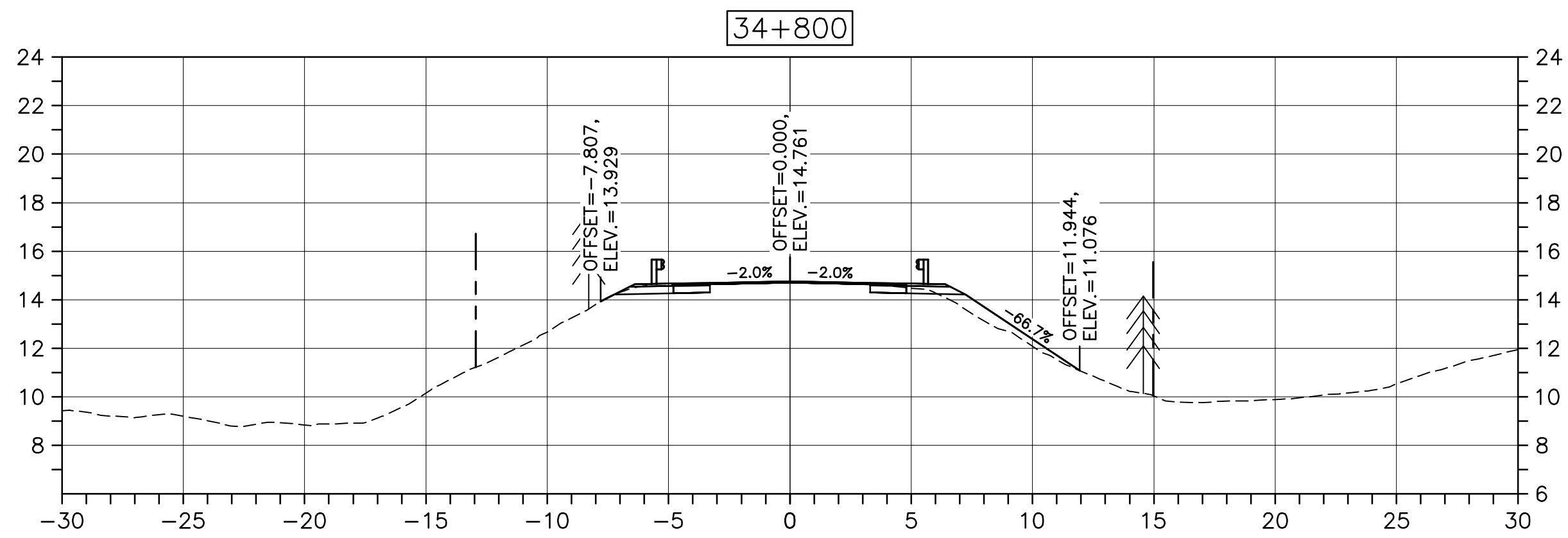
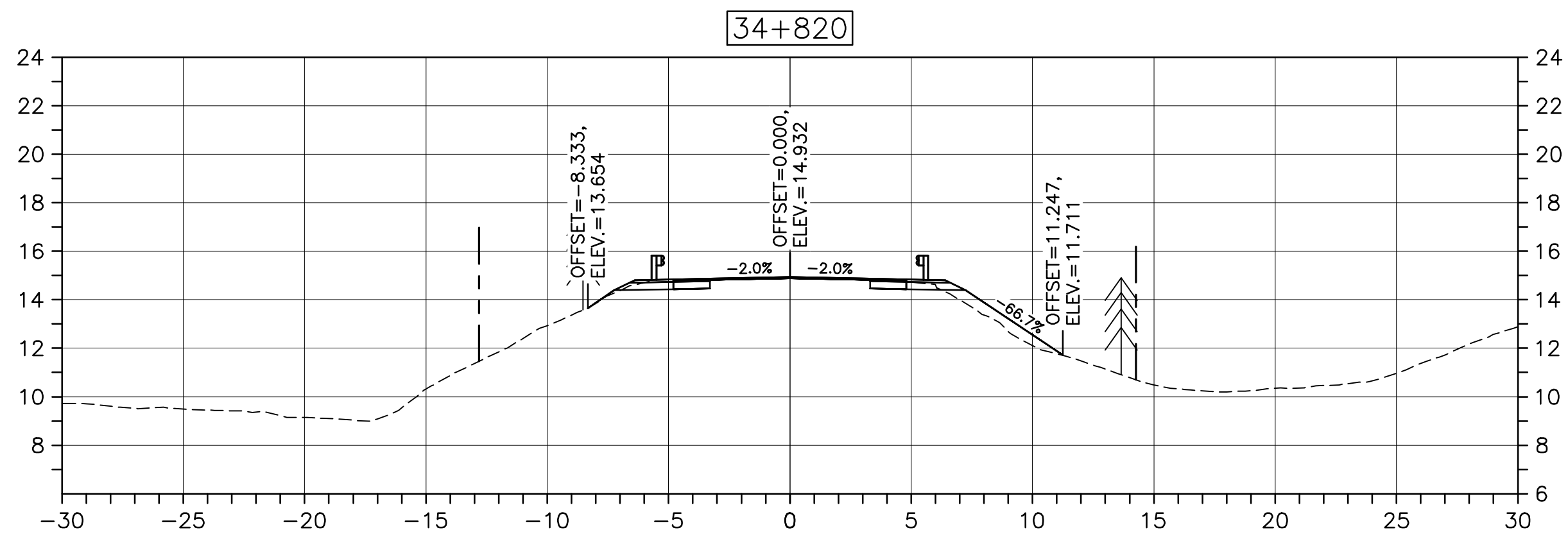
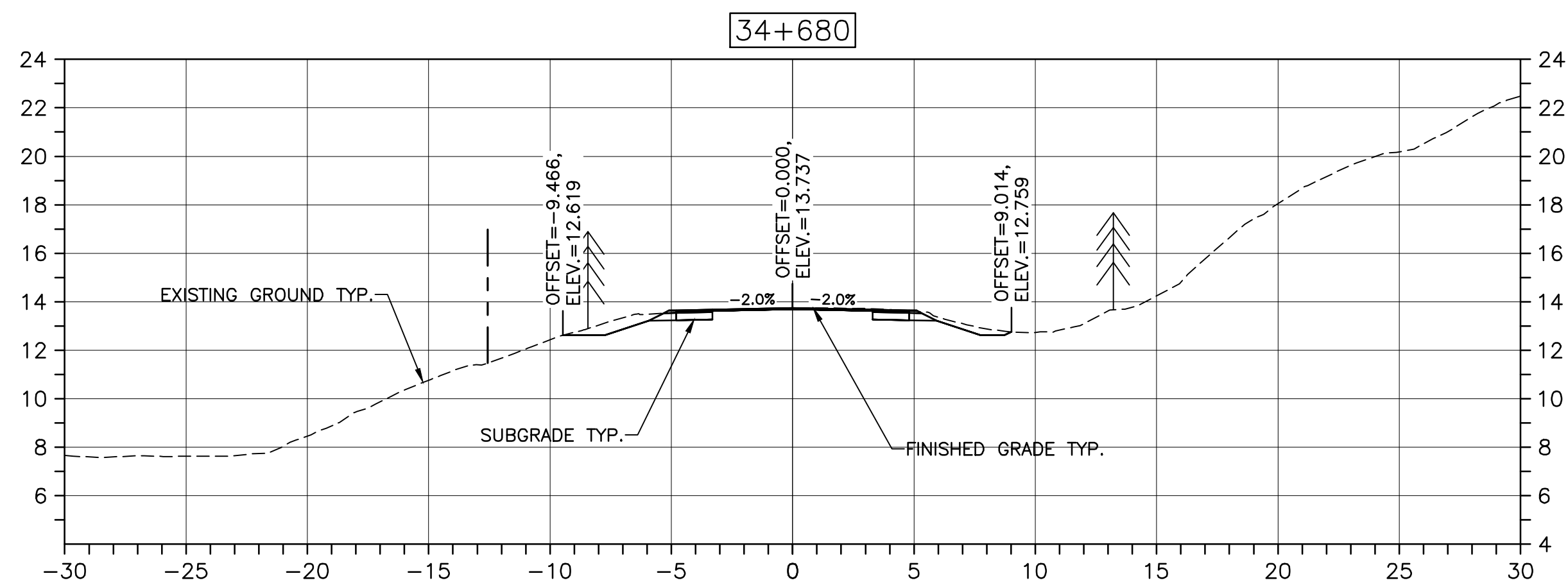
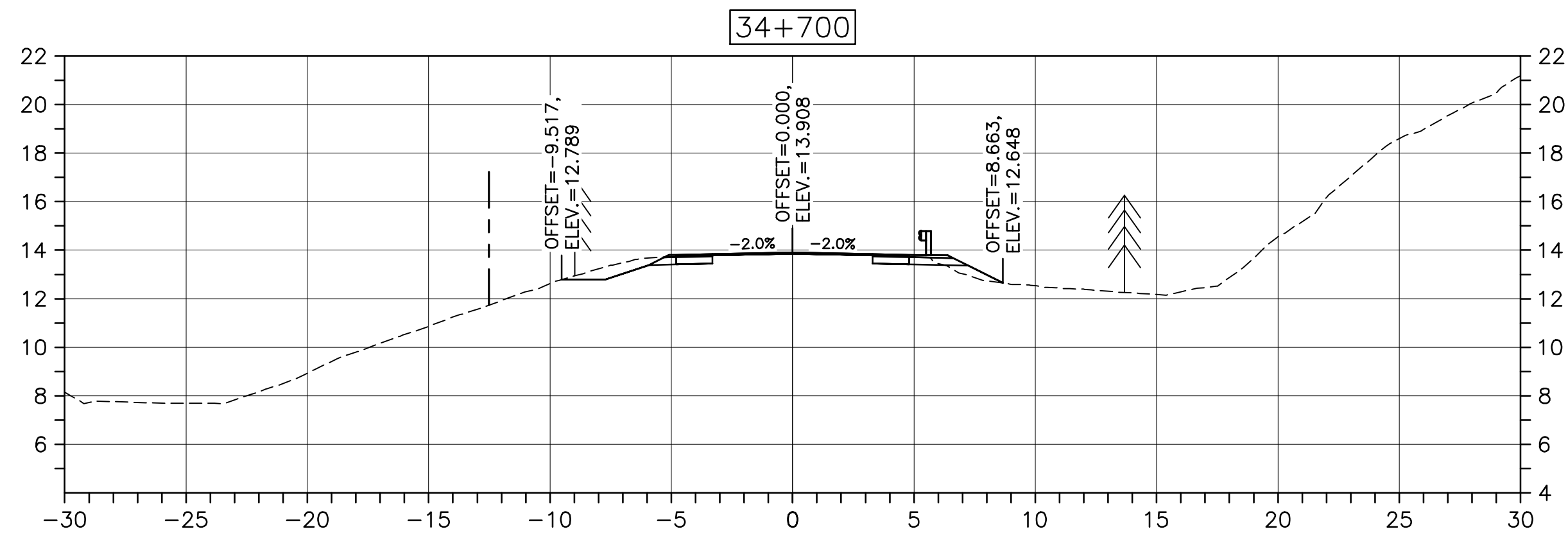
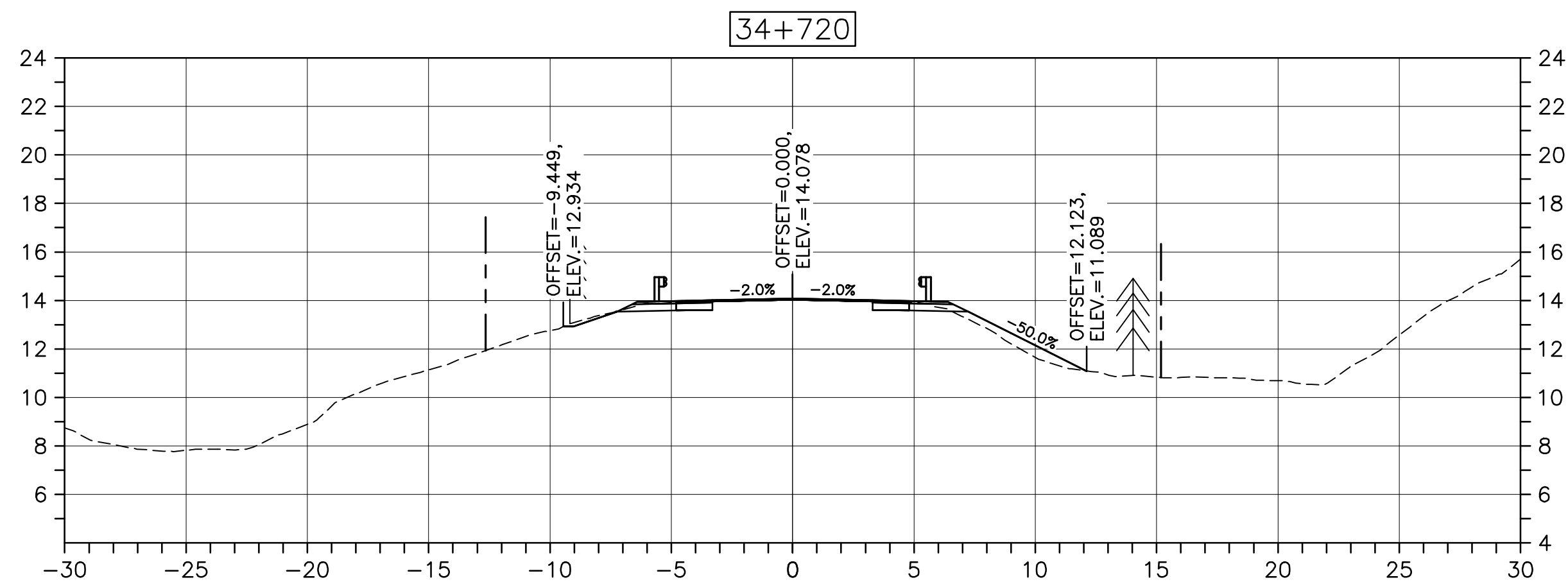
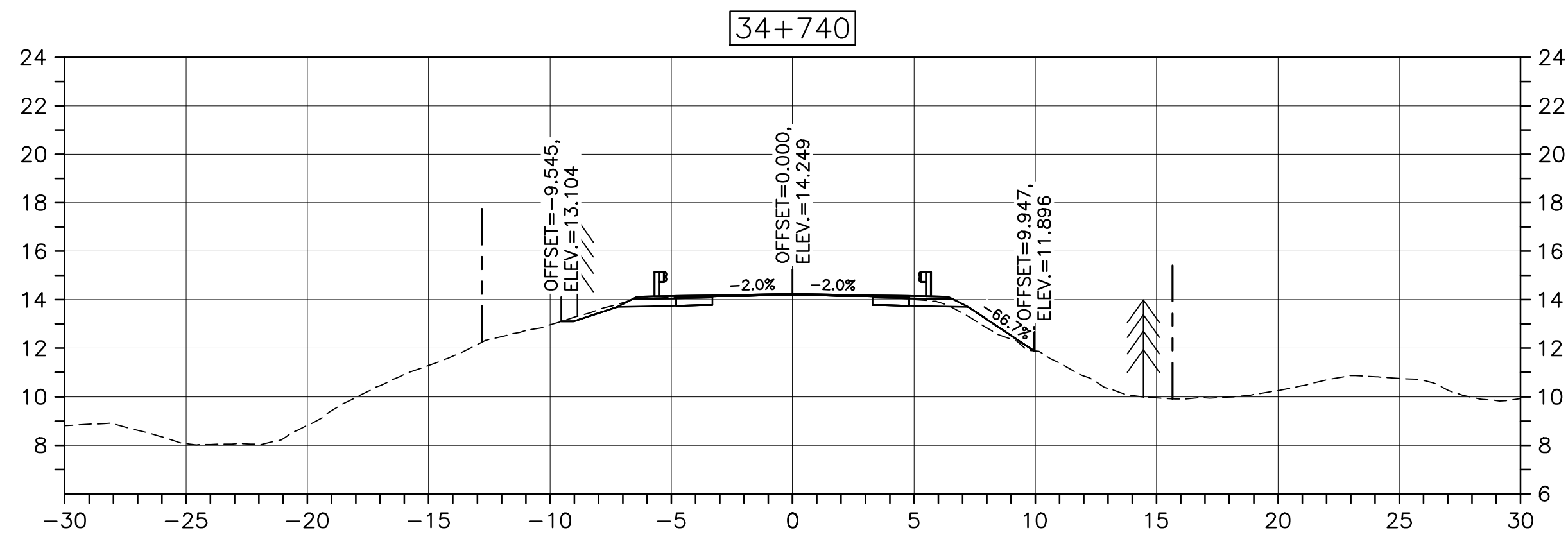
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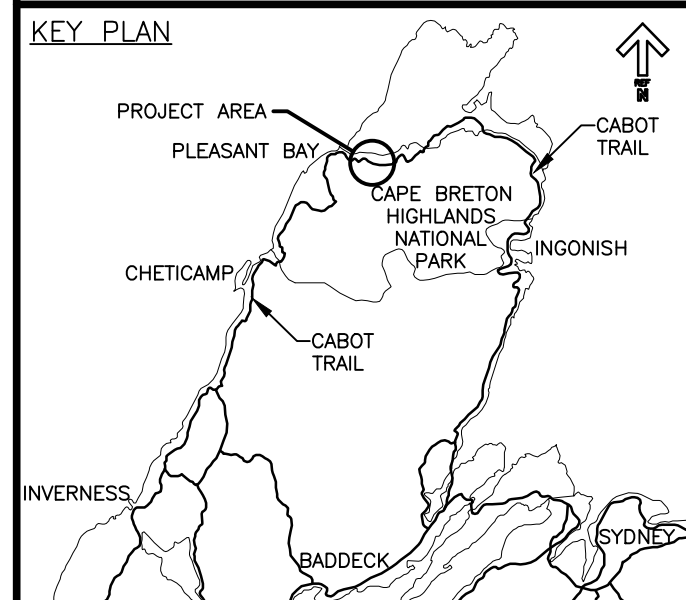
PWGSC A1 (2004)



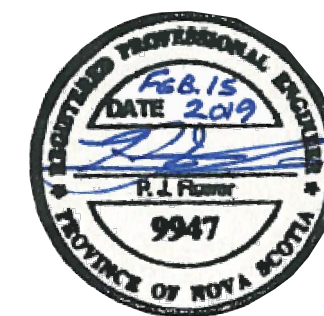
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SCALE: 1:200
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Parks Canada



LEGEND:
EXISTING TREELINE
CLEARING LIMIT



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project

CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing

DESIGN SECTIONS

designed	DSC	conçu
date	MAY. 31, 2018	
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PCA Project Manager

Submission
Administrateur de projets PCA

project number

1114

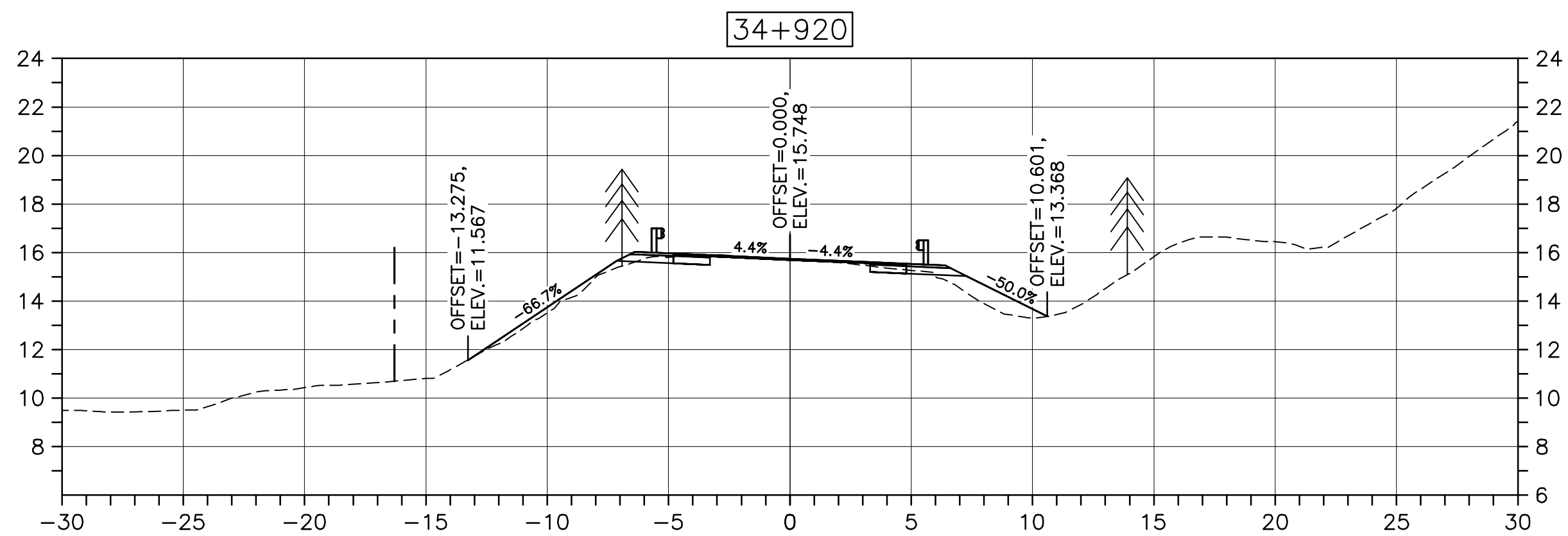
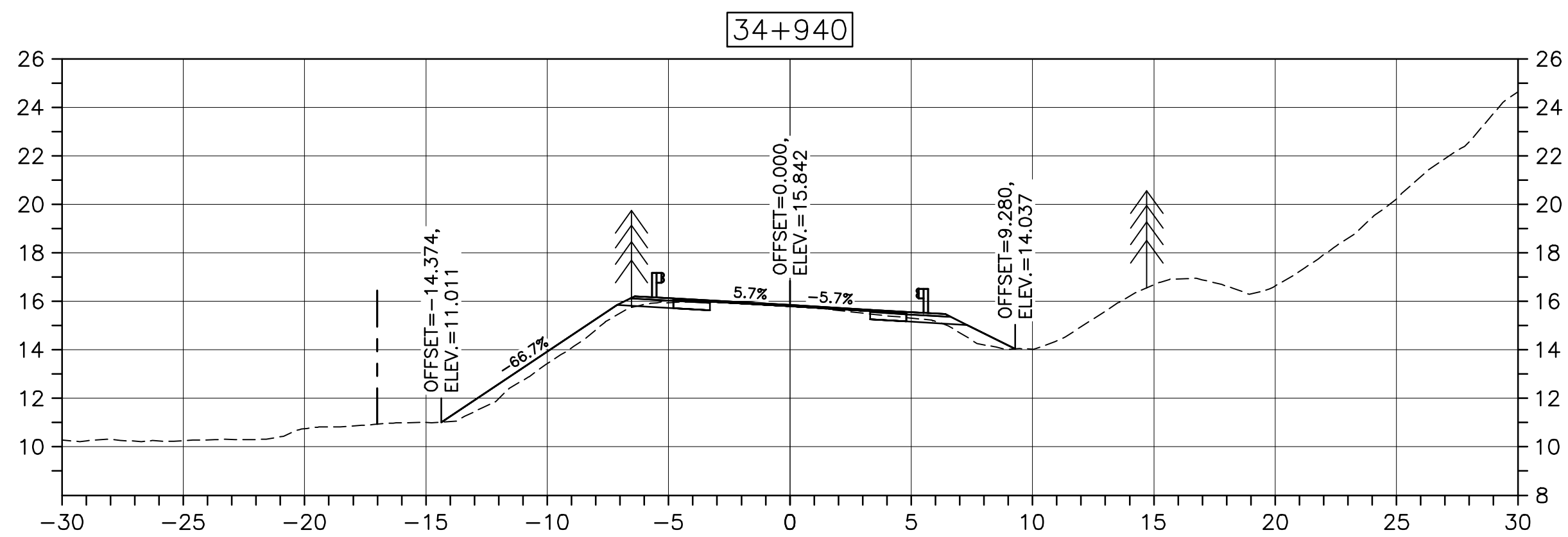
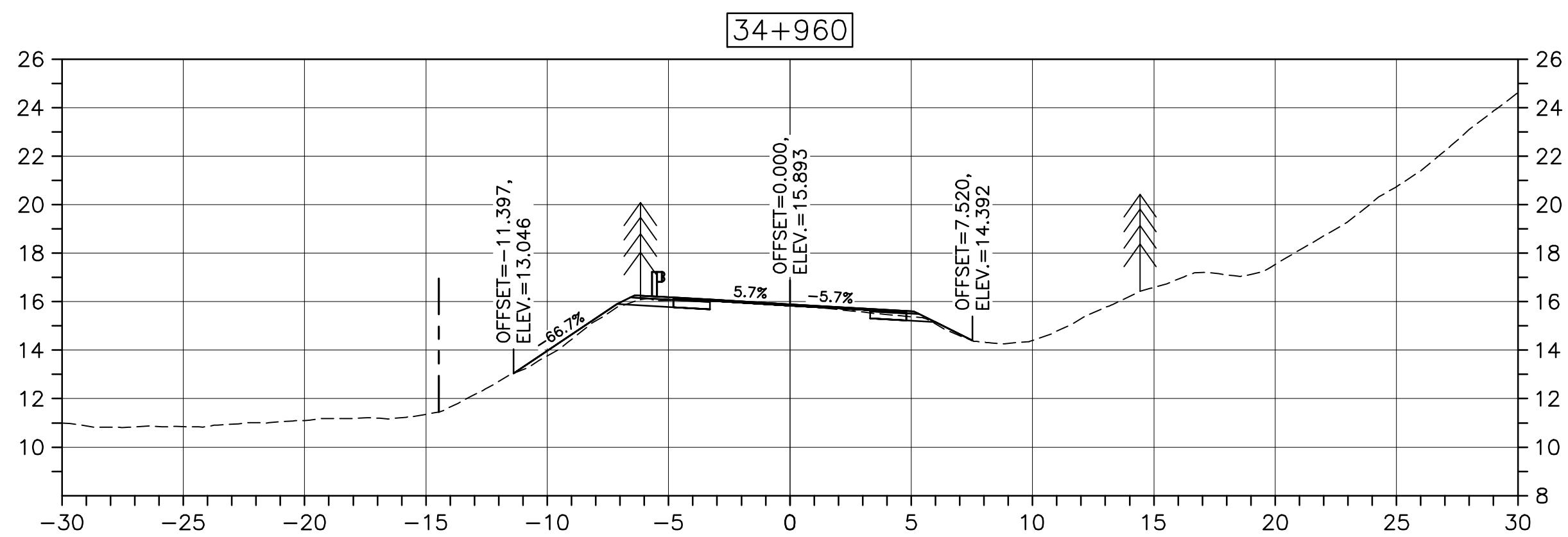
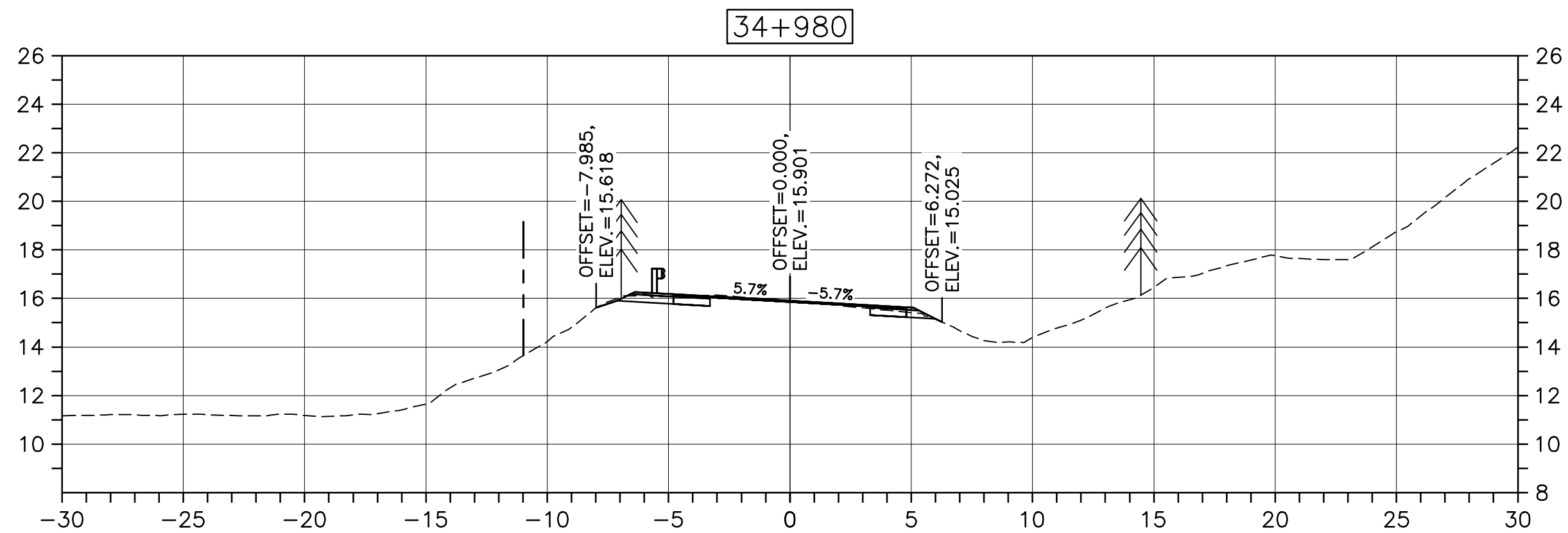
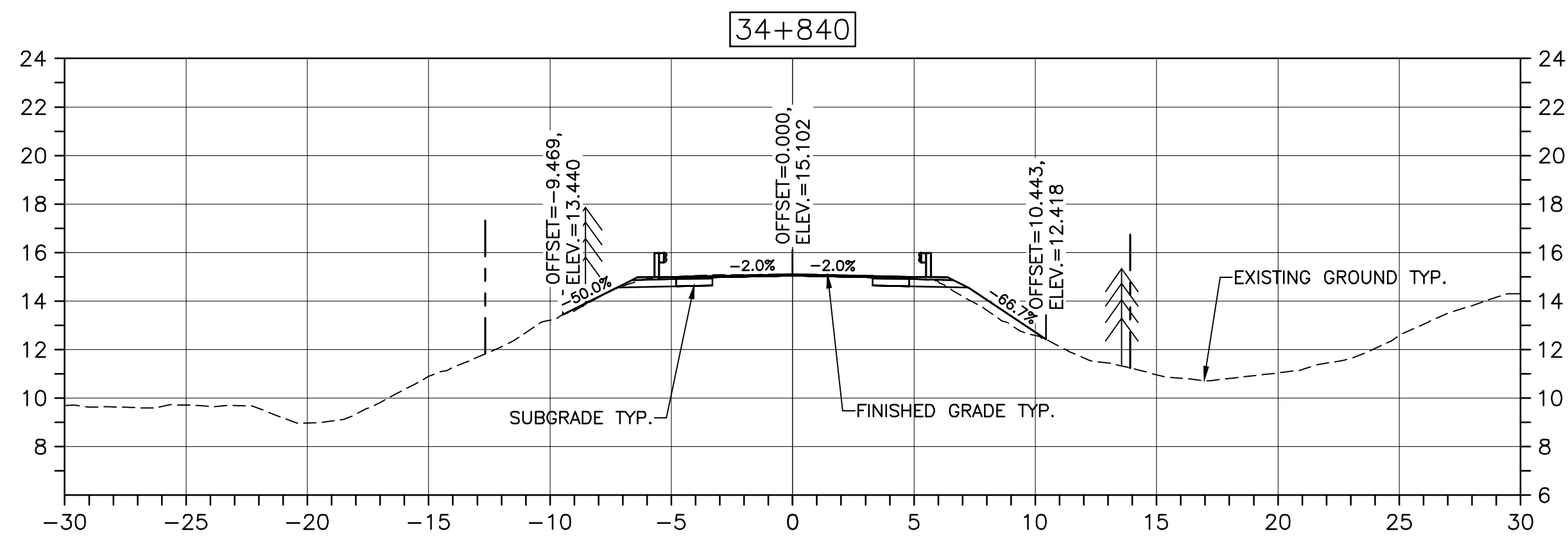
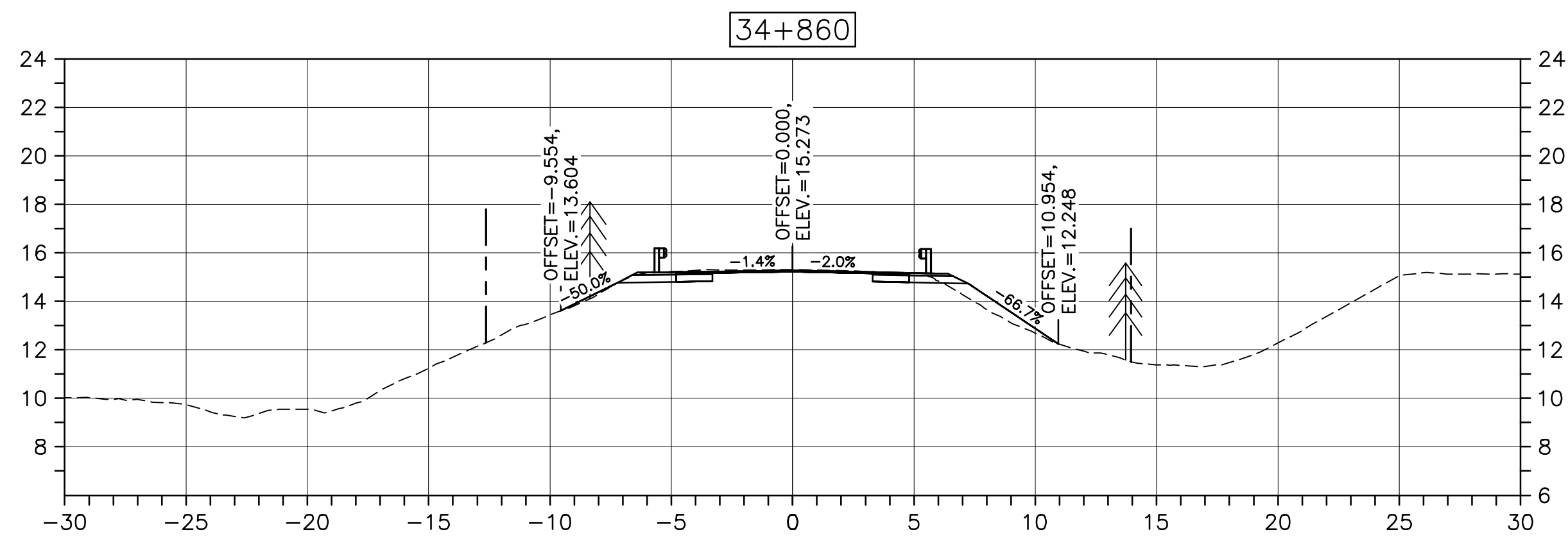
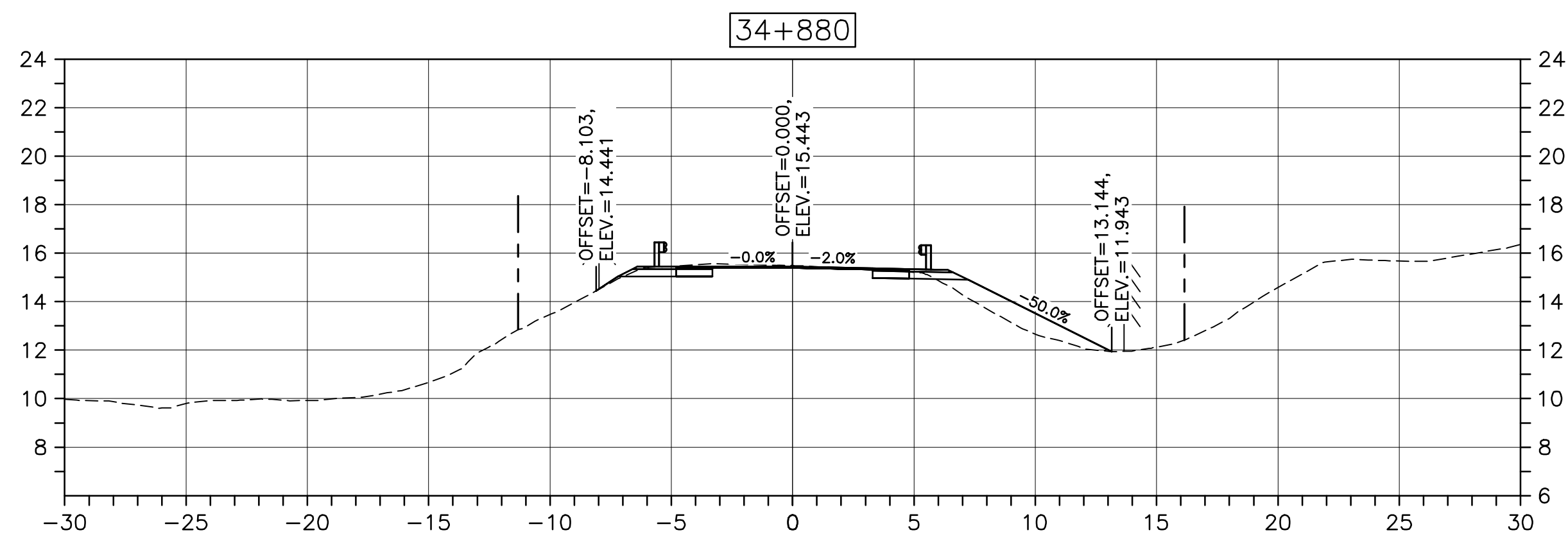
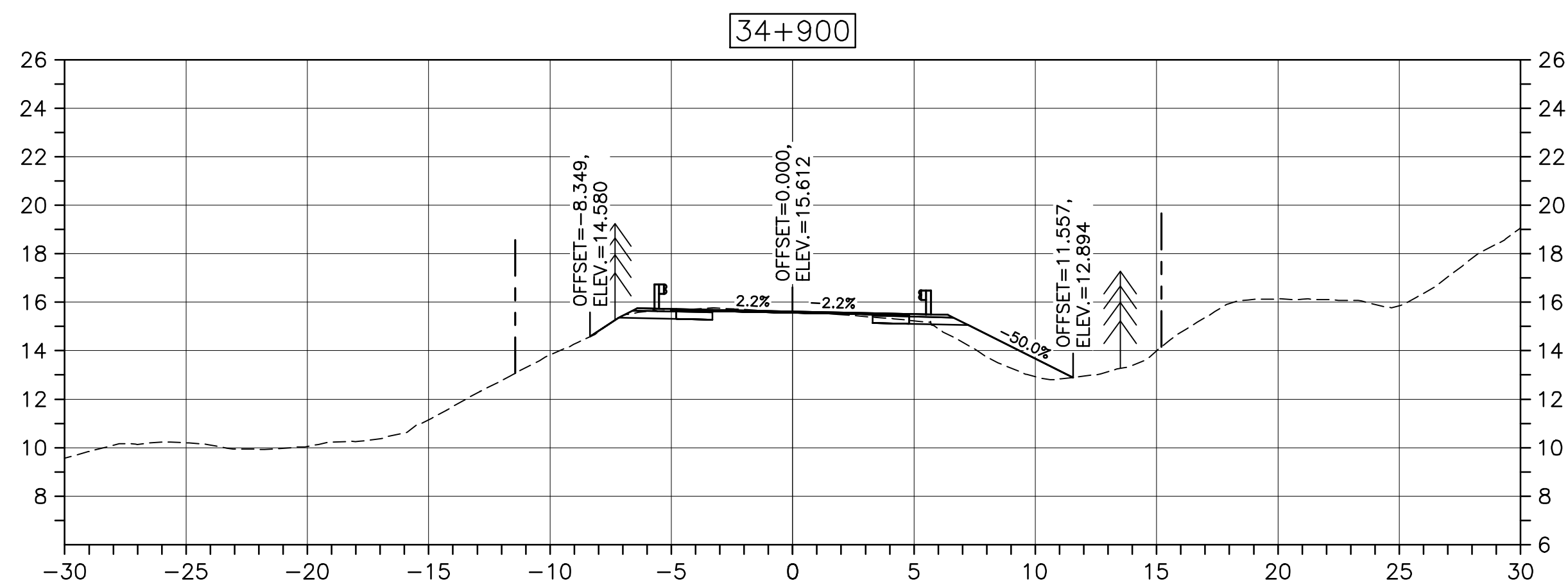
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C-50

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PWGSC A1 (2004)

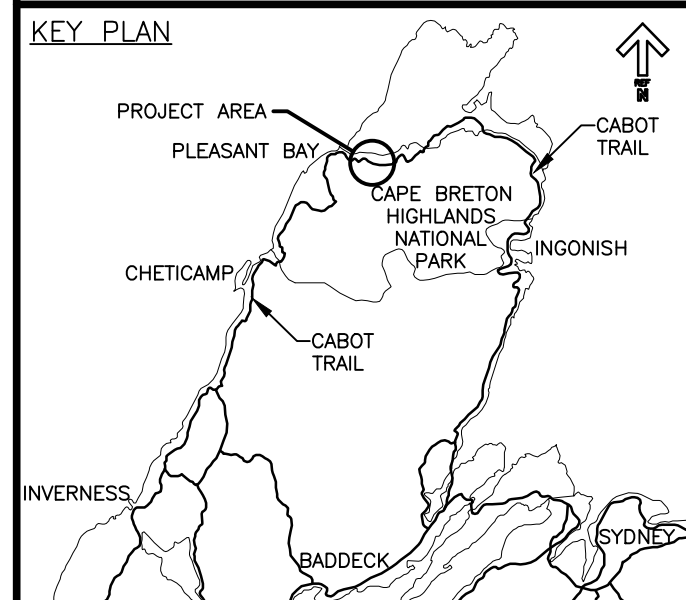


CROSS SECTIONS
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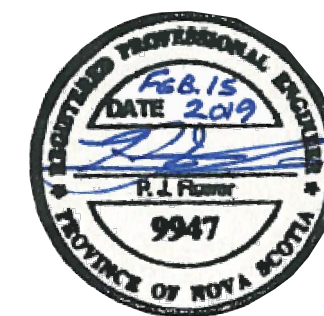
Parks Canada Parcs Canada



LEGEND:

EXISTING TREELINE

CLEARING LIMIT



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project projet

CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing dessin

DESIGN SECTIONS

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Tender Soumission
PCA Project Manager Administrateur de projets PCA

project number no. du projet

1114

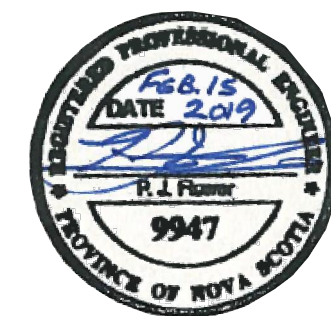
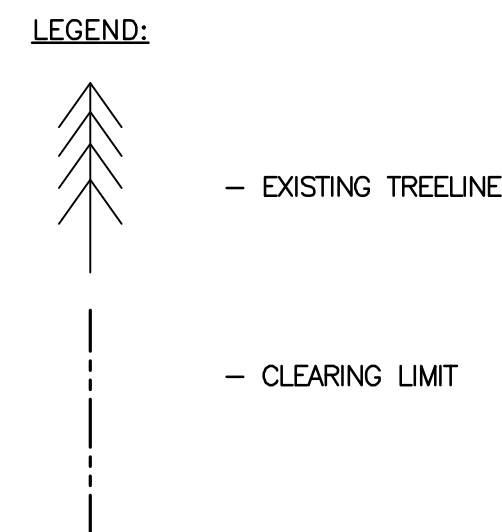
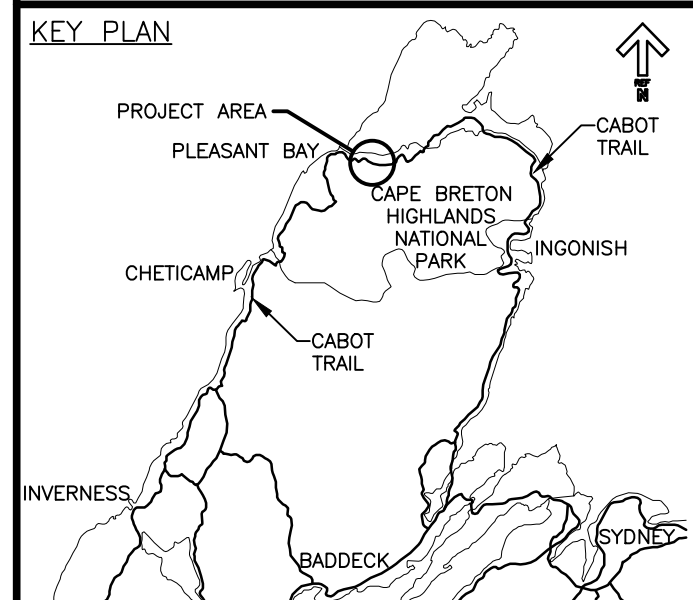
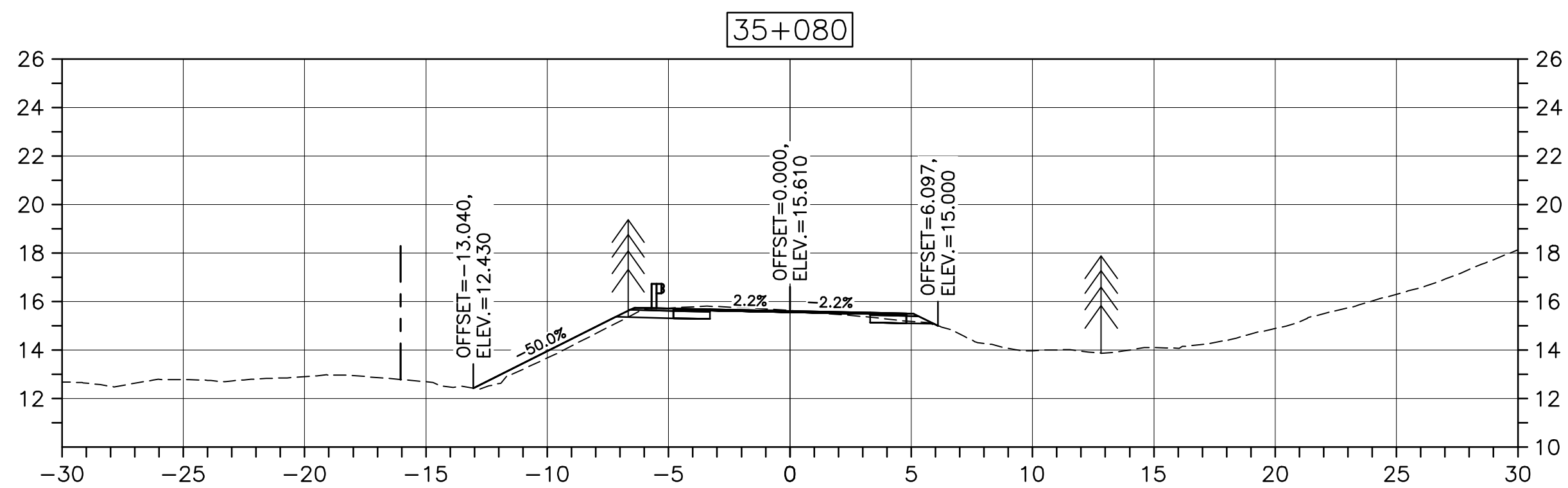
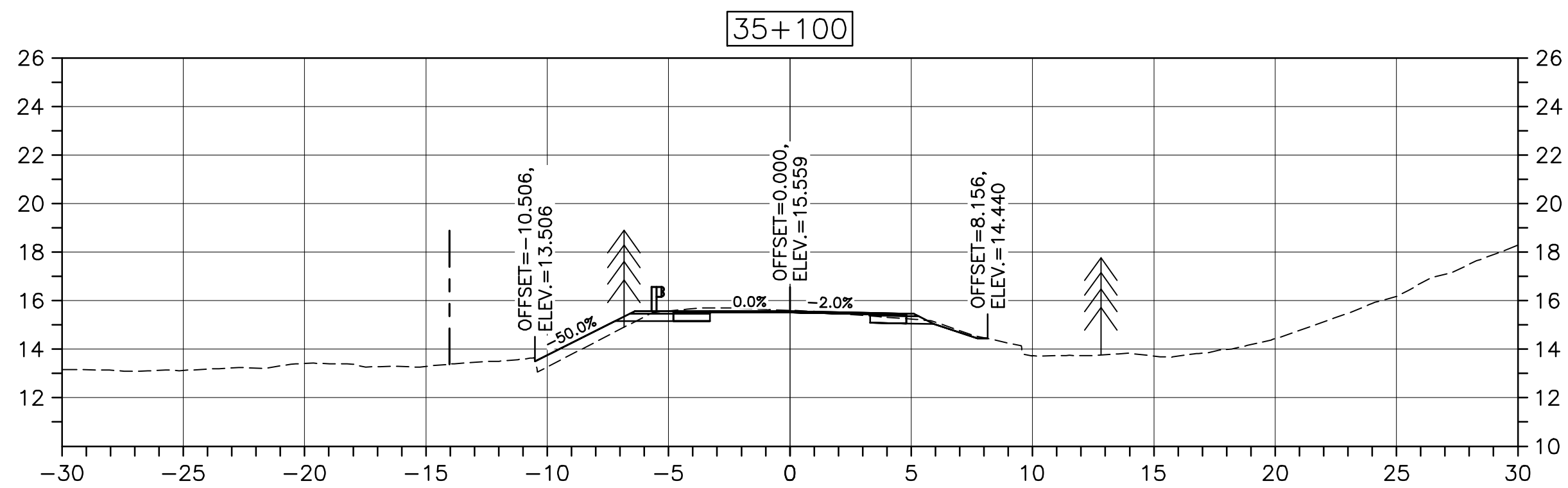
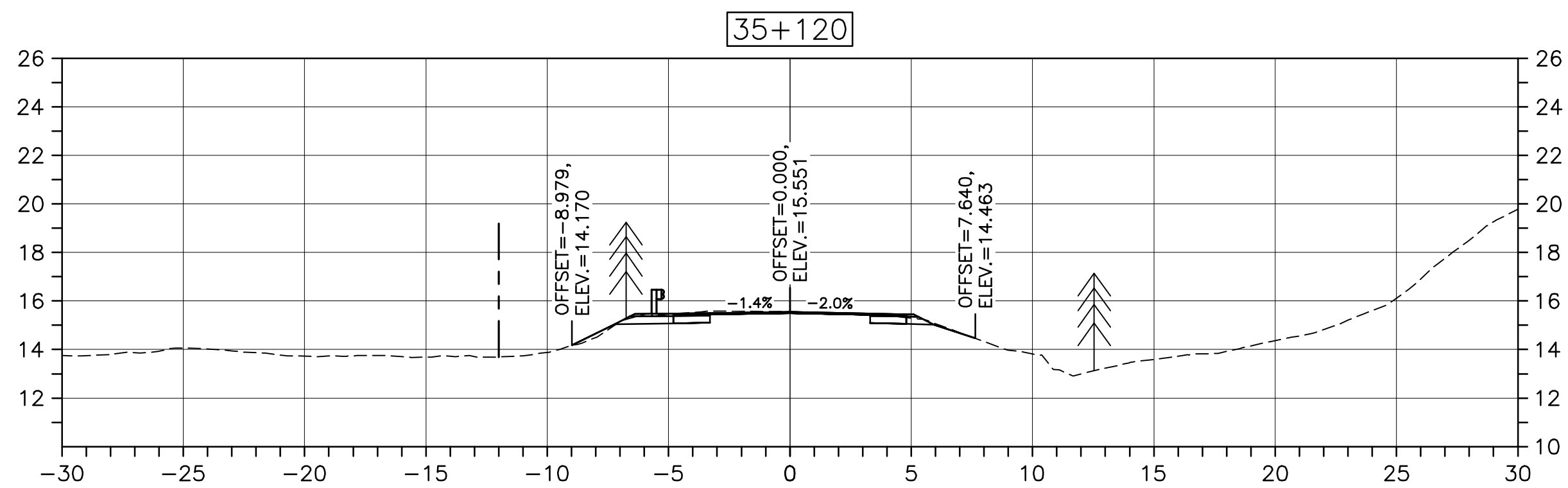
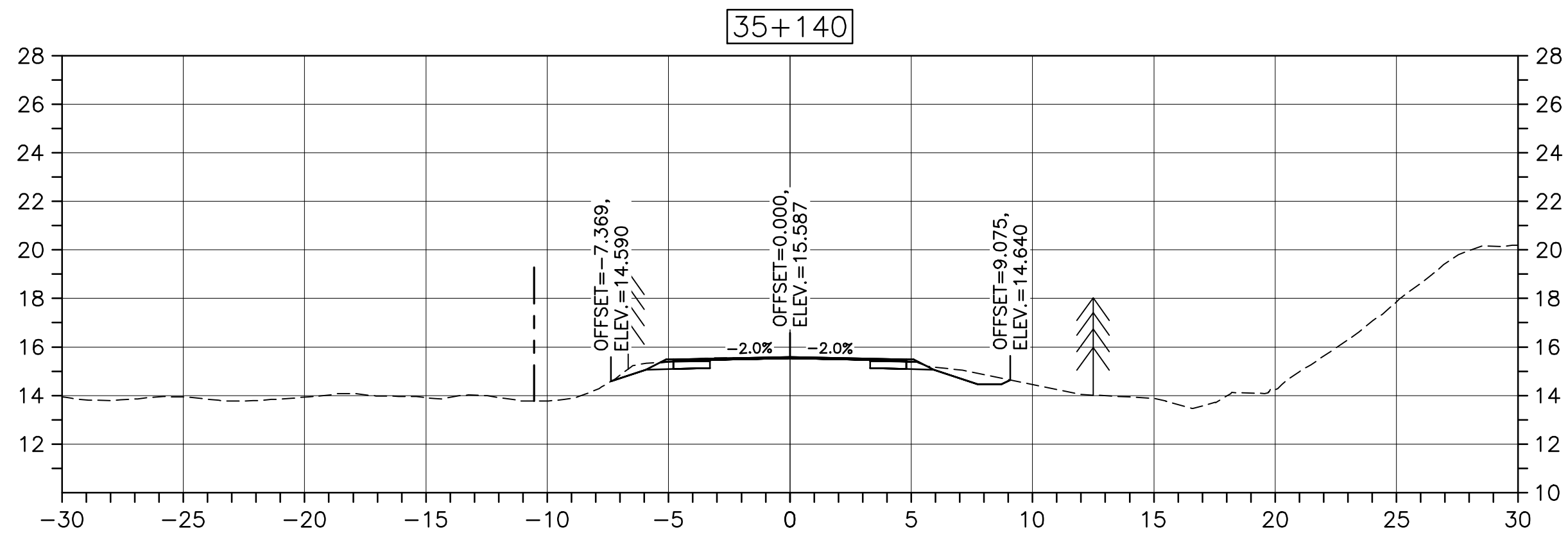
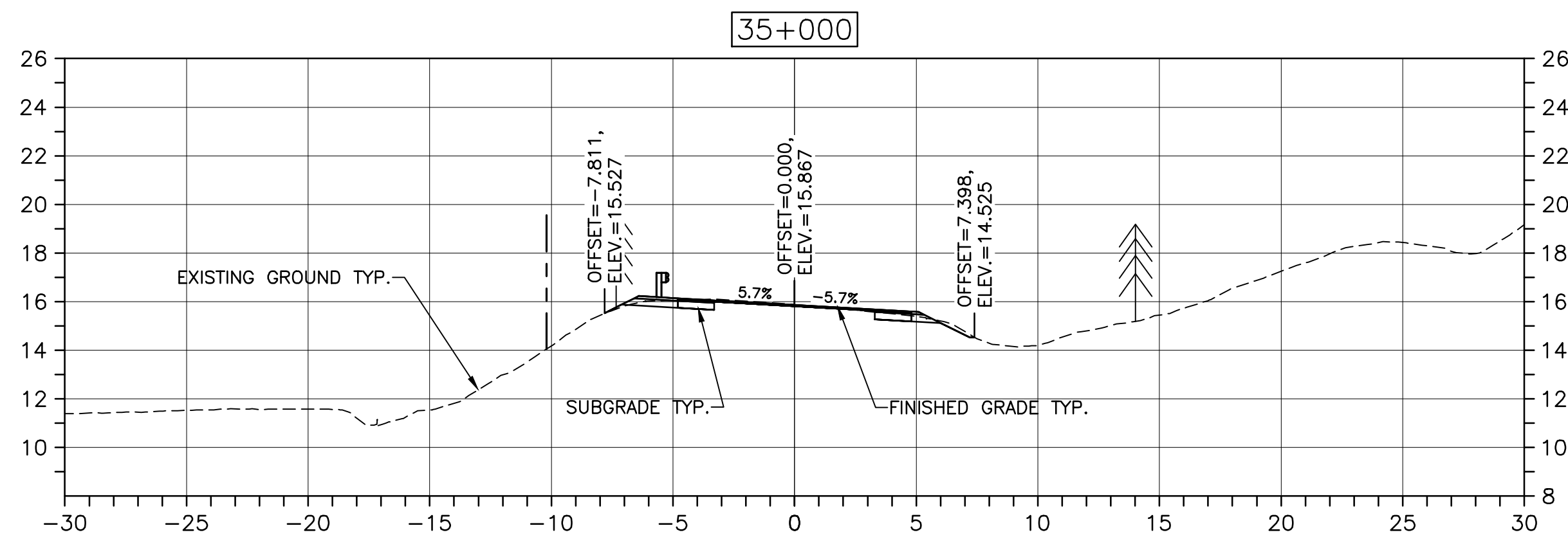
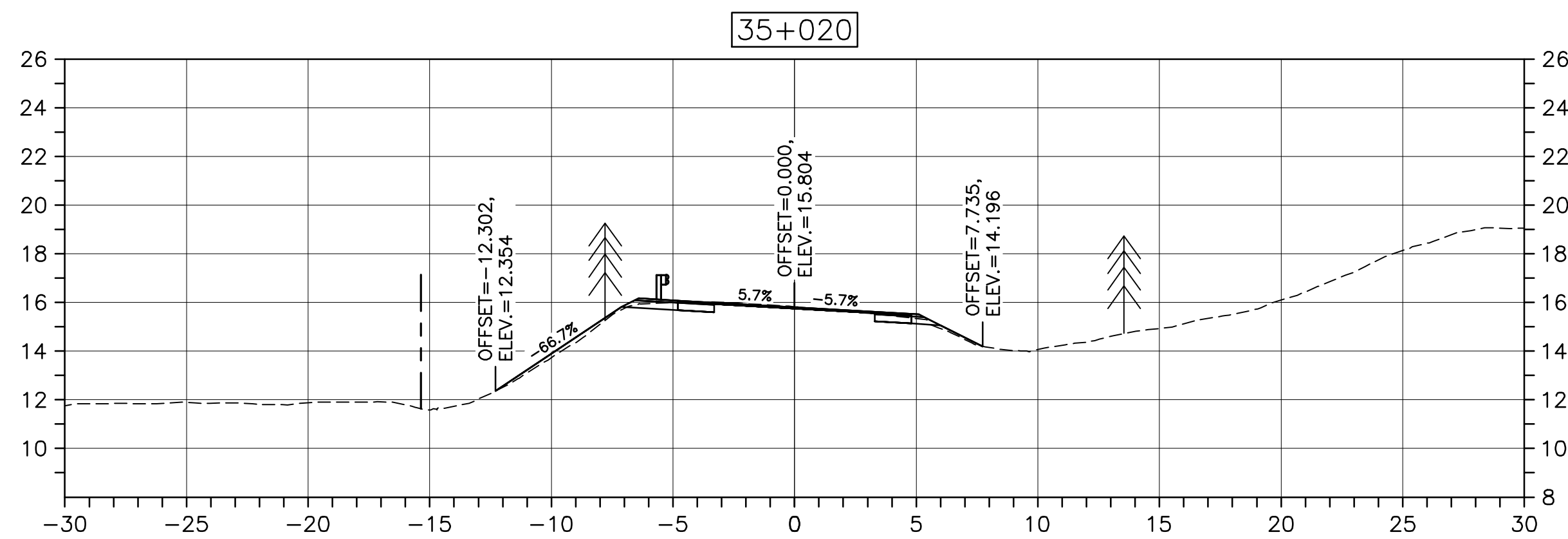
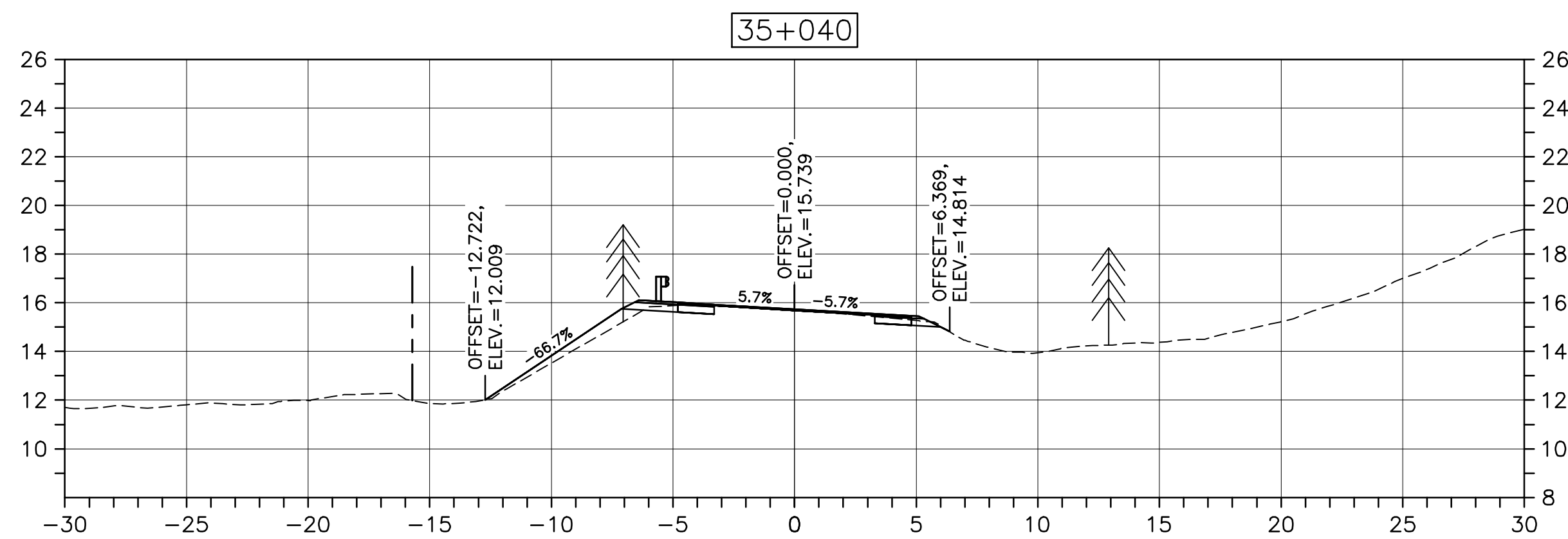
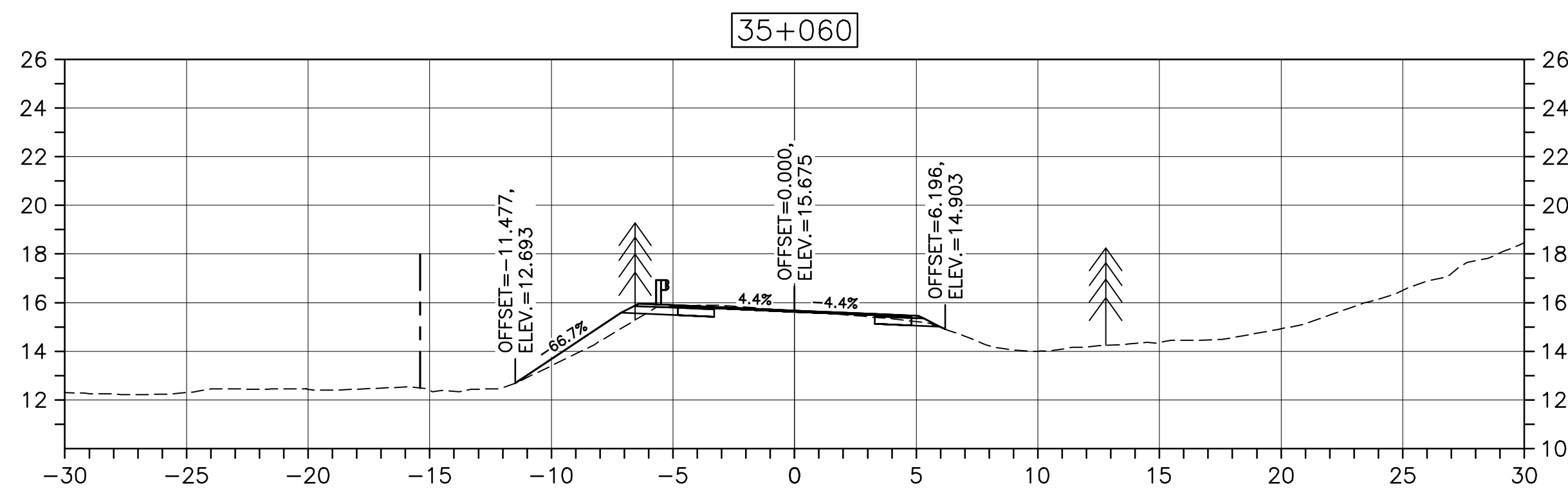
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C-51

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PWOSC A1 (2004)



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project CABOT TRAIL REHABILITATION PLEASANT BAY TO NORTH MOUNTAIN CAPE BRETON HIGHLANDS NATIONAL PARK

drawing dessin

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date FEB. 15, 2019	

Tender PCA Project Manager Soumission Administrateur de projets PCA

project number no. du projet

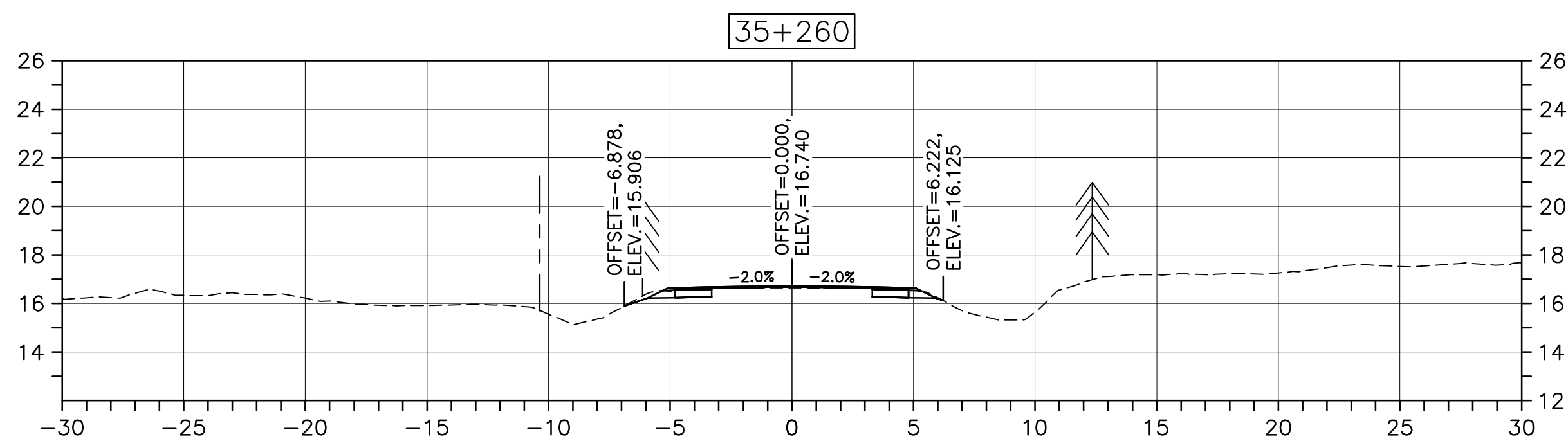
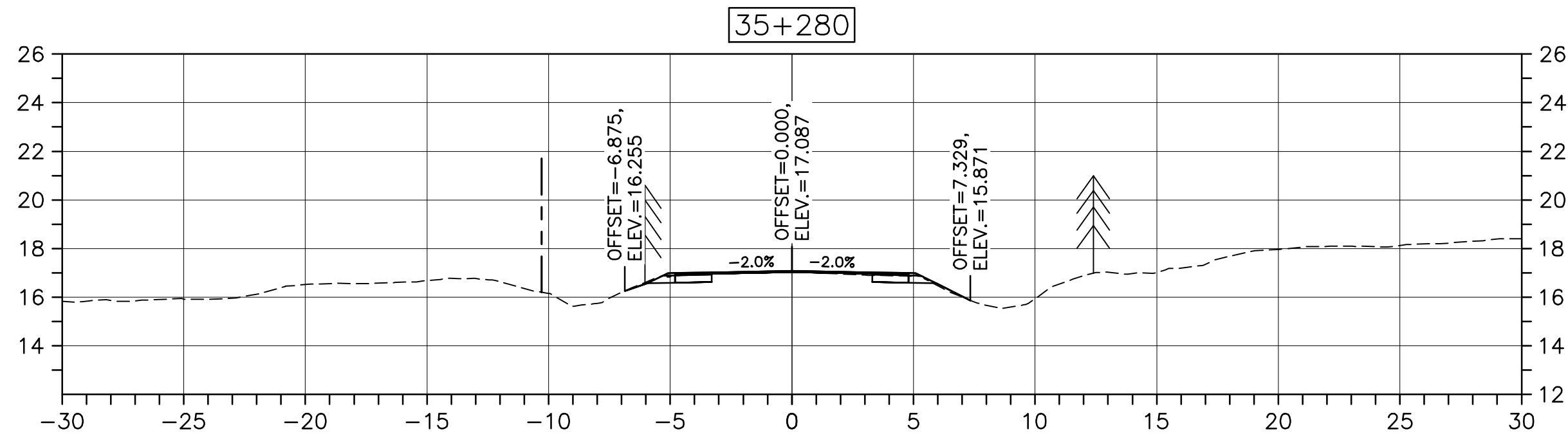
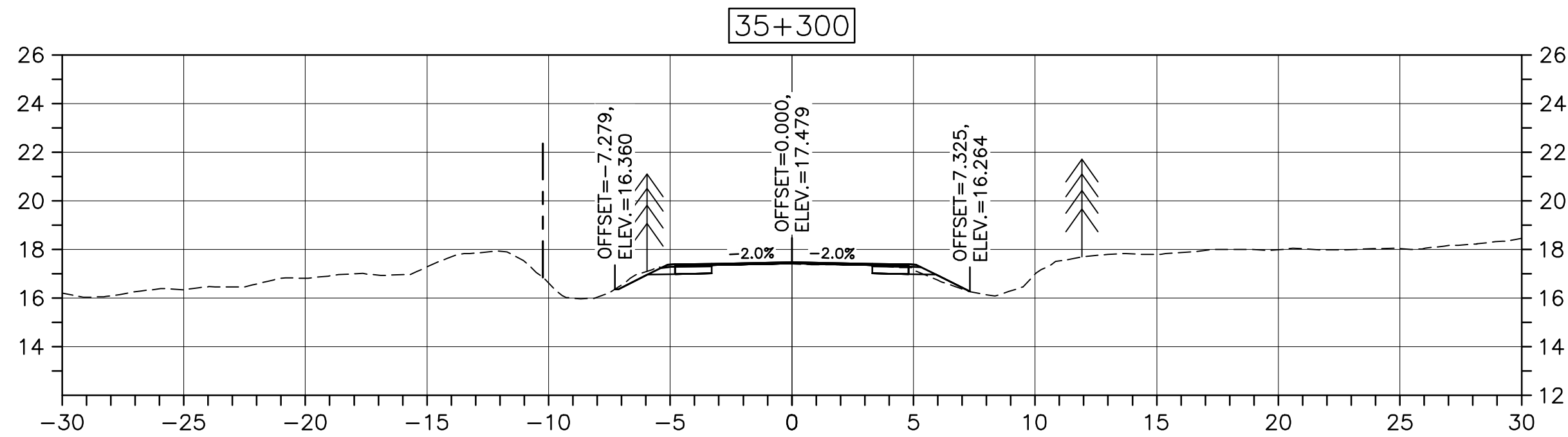
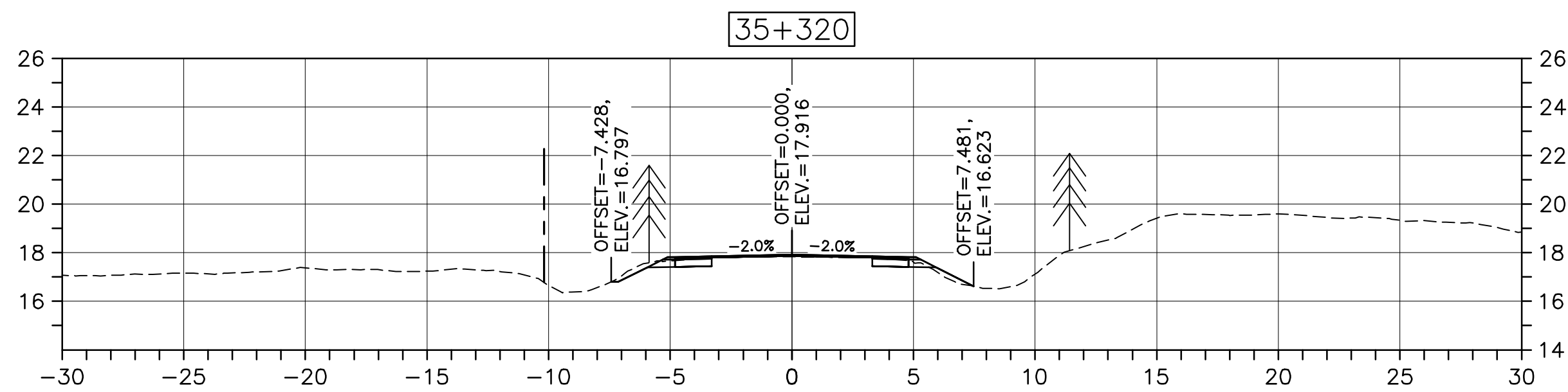
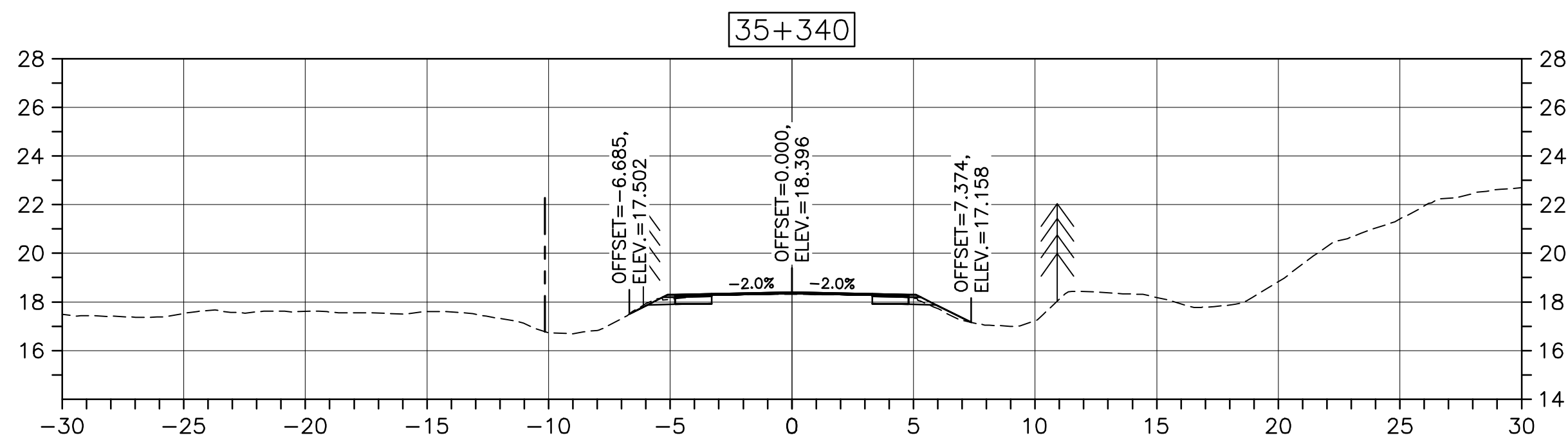
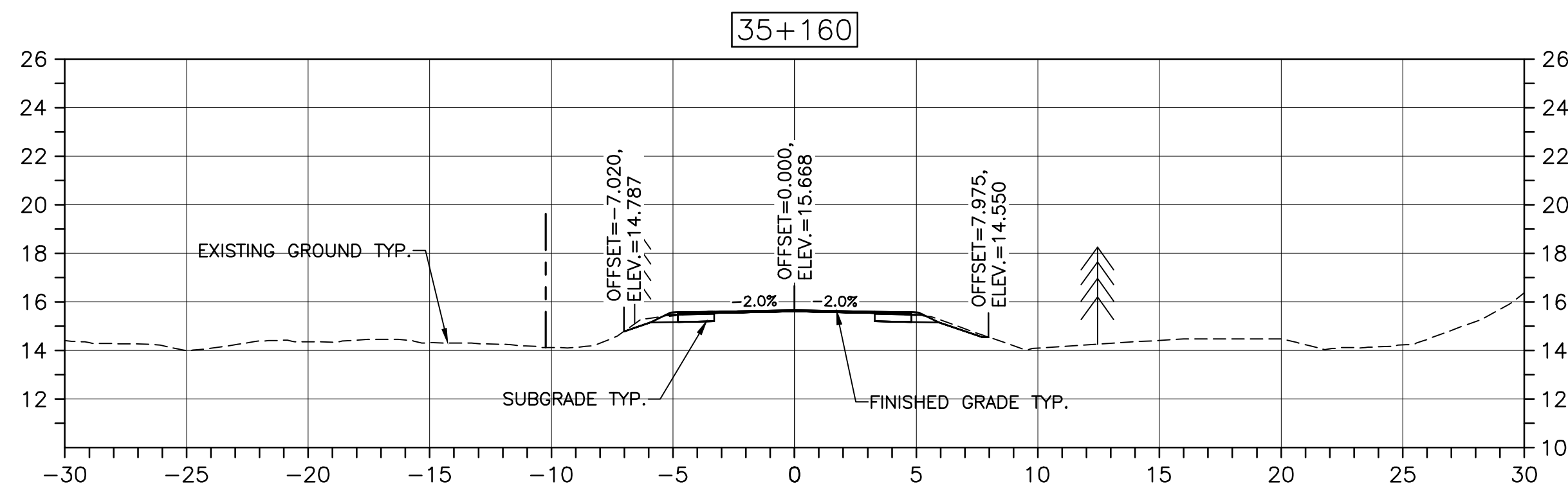
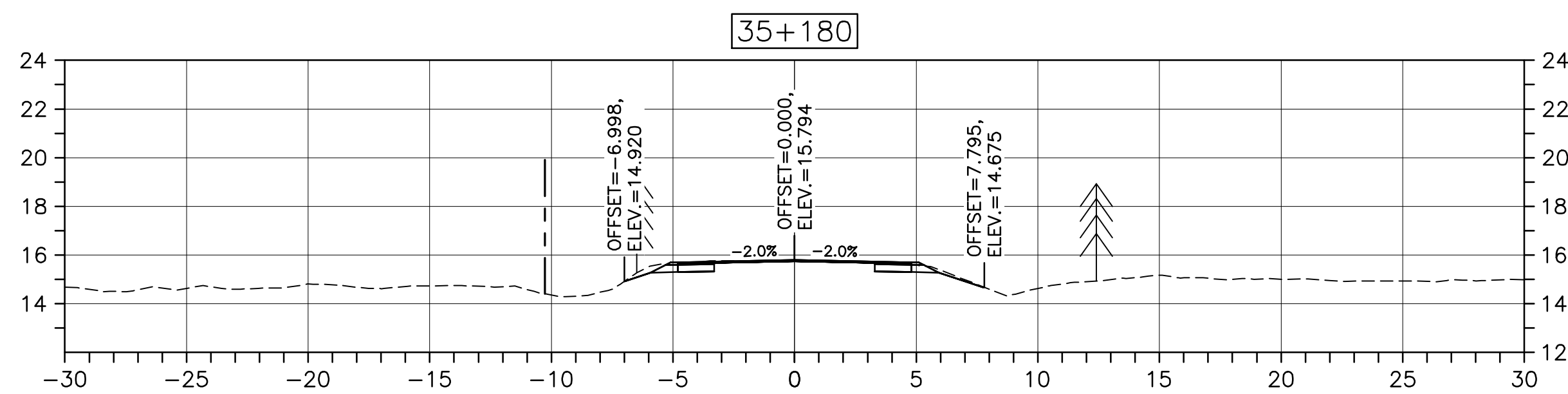
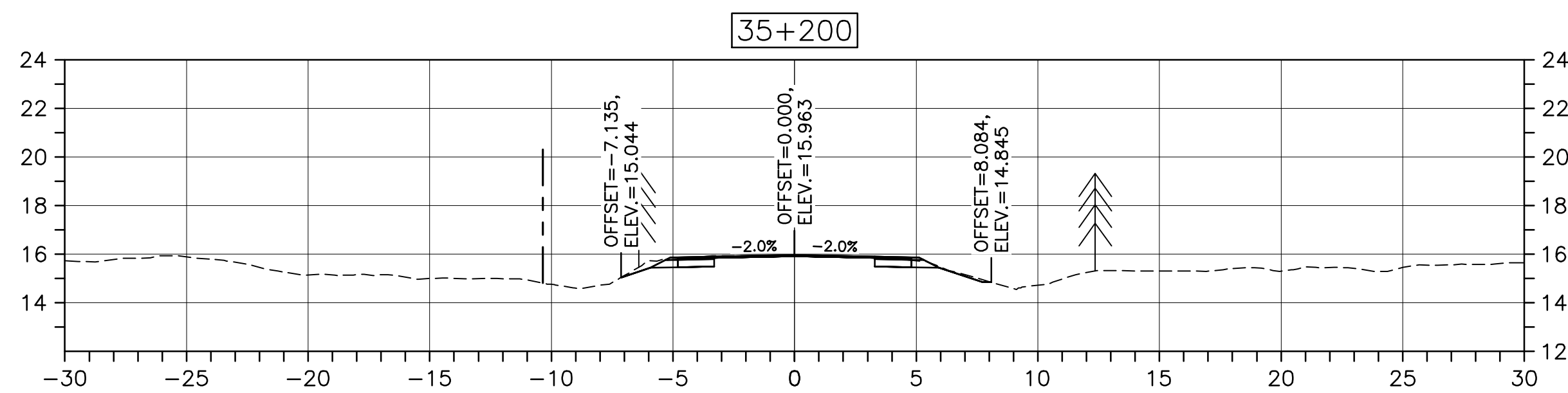
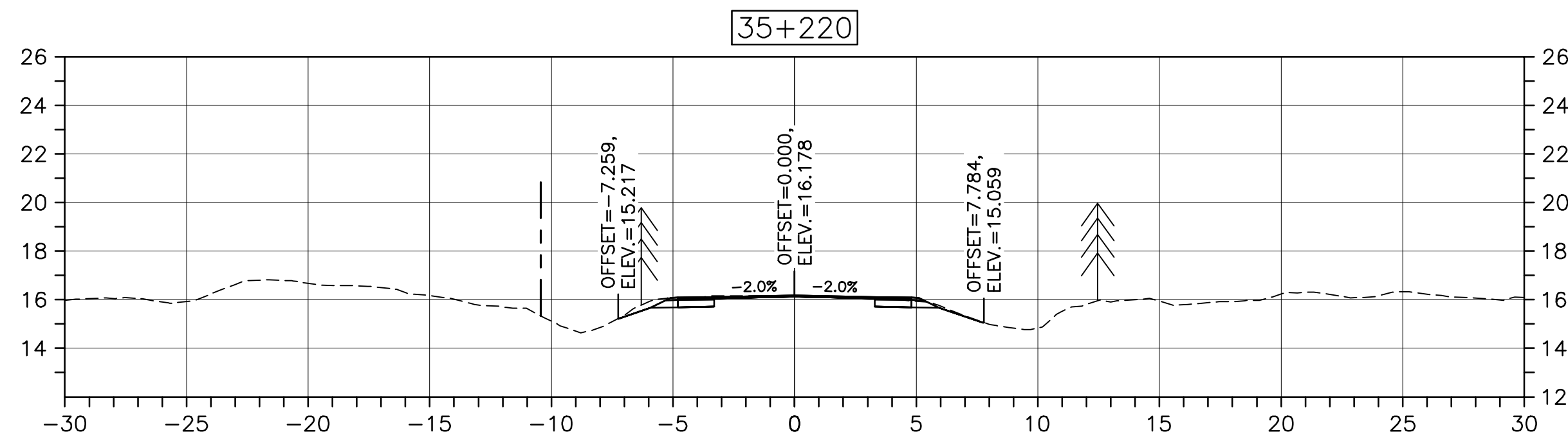
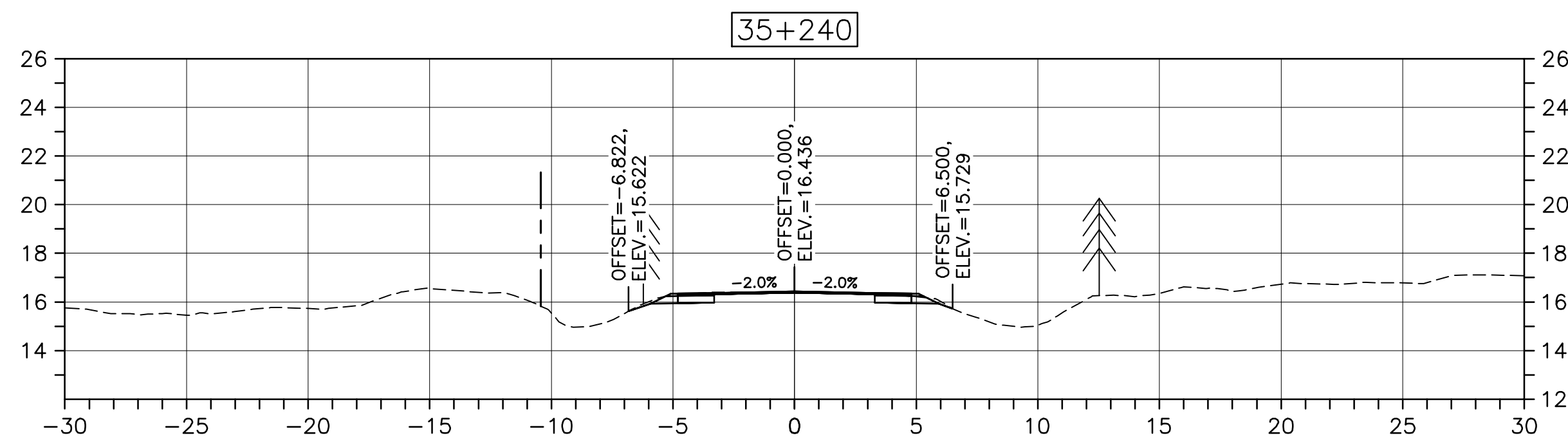
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drawing no. no. du dessin

C-52

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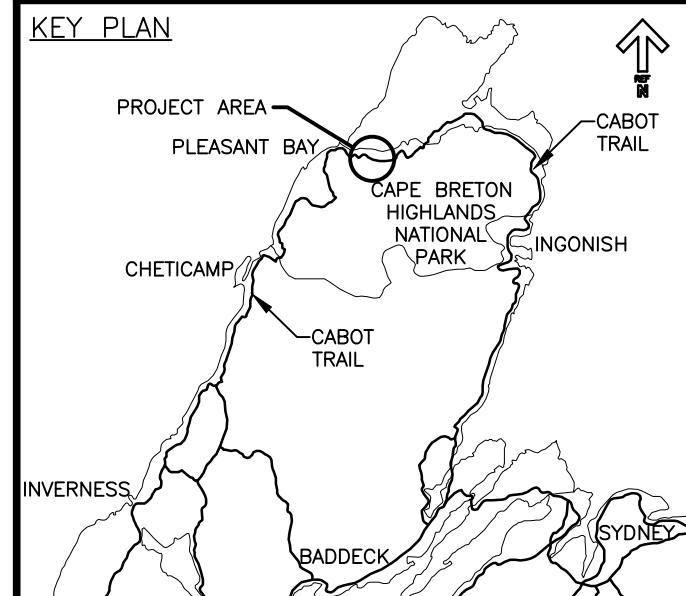
PWGSC A1 (2004)



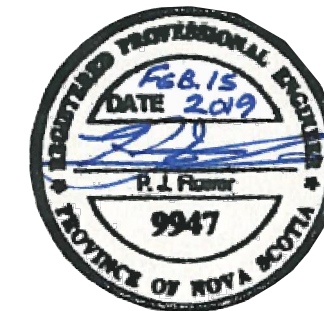
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Parks Canada Parcs Canada



LEGEND:
- EXISTING TREELINE
- CLEARING LIMIT



0	ISSUED FOR TENDER	02/15 2019
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project CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
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drawing dessin

DESIGN SECTIONS

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Tender PCA Project Manager Soumission Administrateur de projets PCA

project number no. du projet

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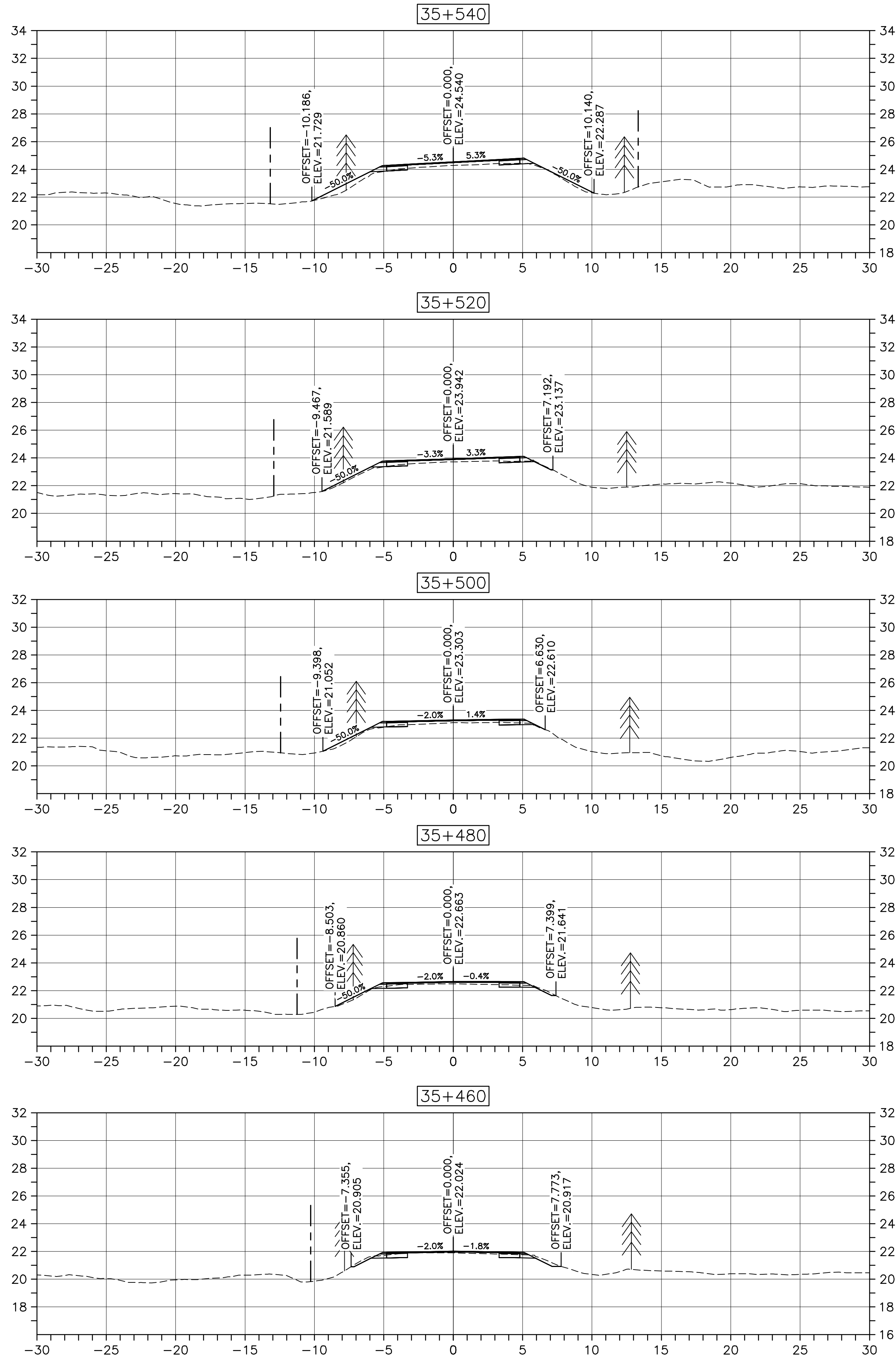
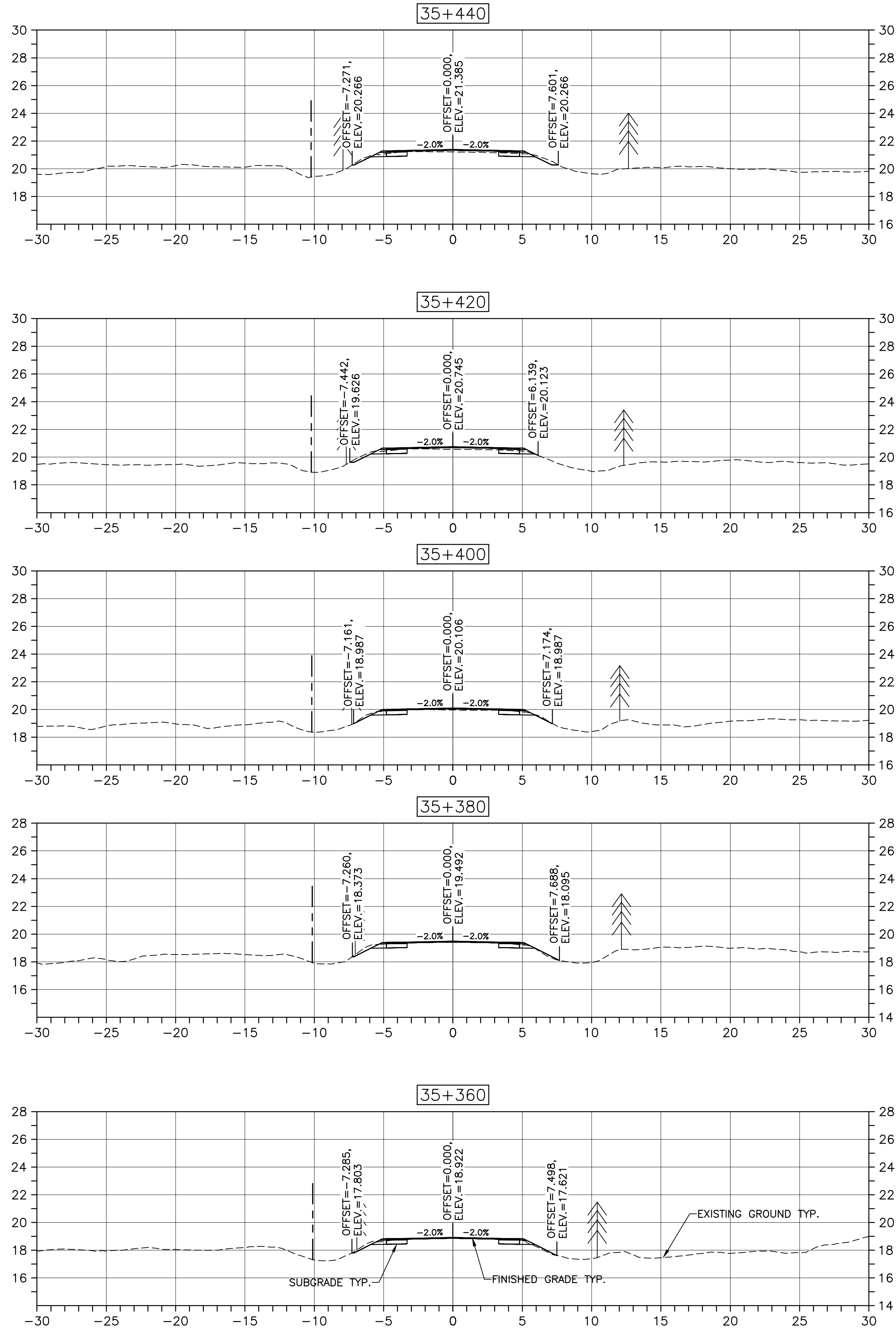
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C-53

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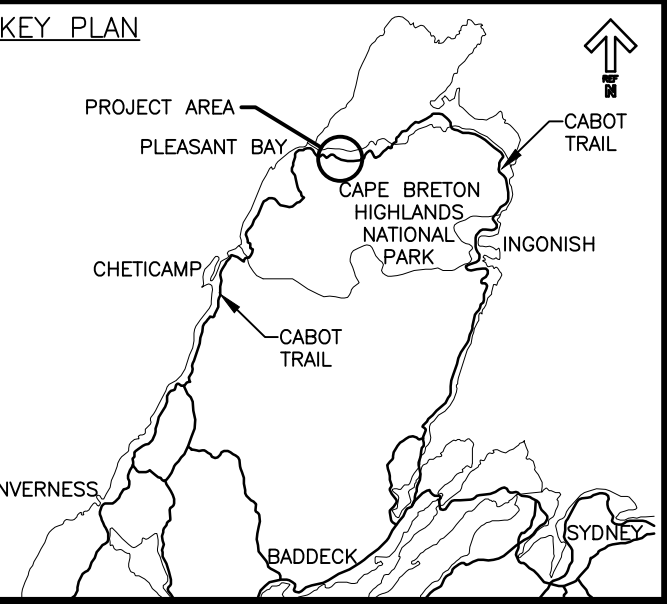
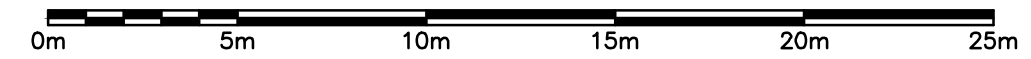
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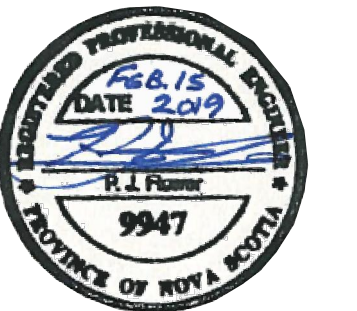
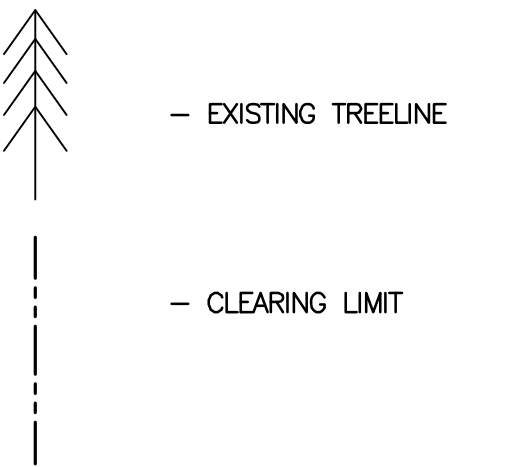


CROSS SECTIONS

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LEGEND:



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project CABOT TRAIL REHABILITATION
PLEASANT BAY TO
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drawing dessin

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Tender Soumission
PCA Project Manager Administrateur de projets PCA

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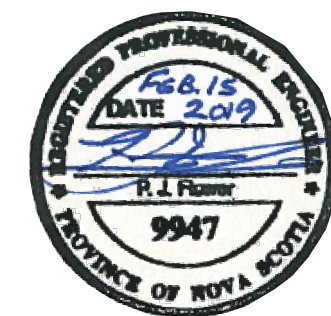
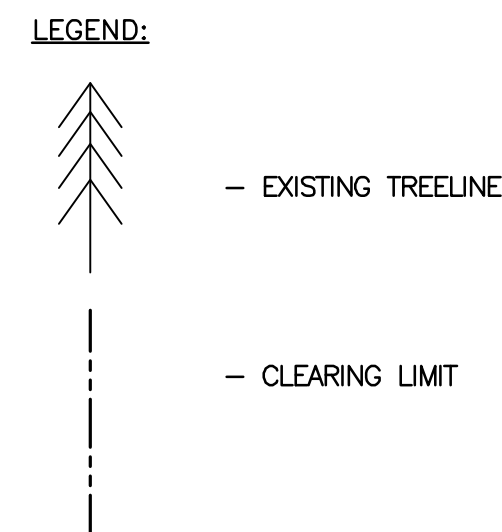
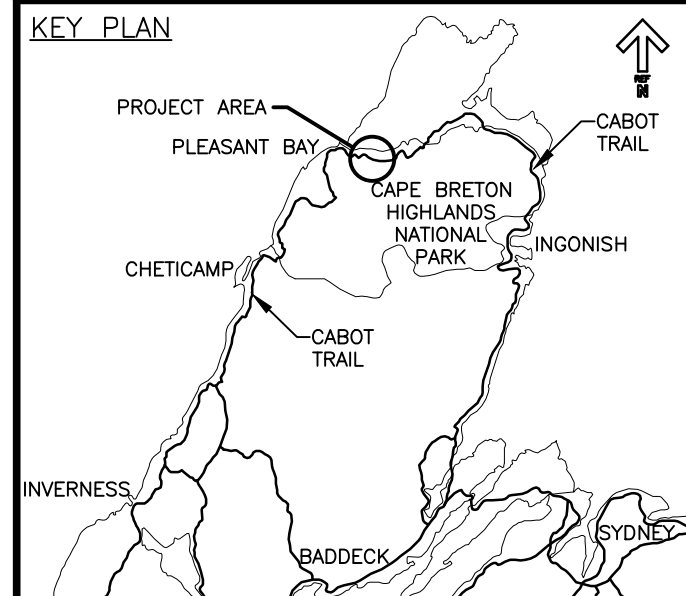
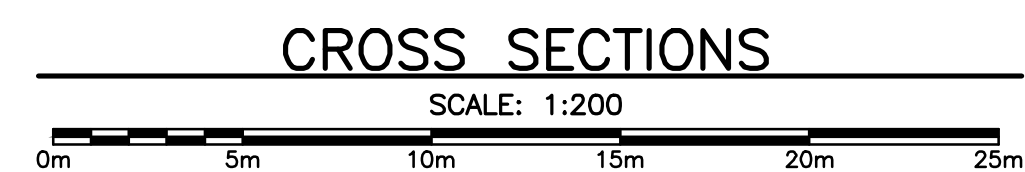
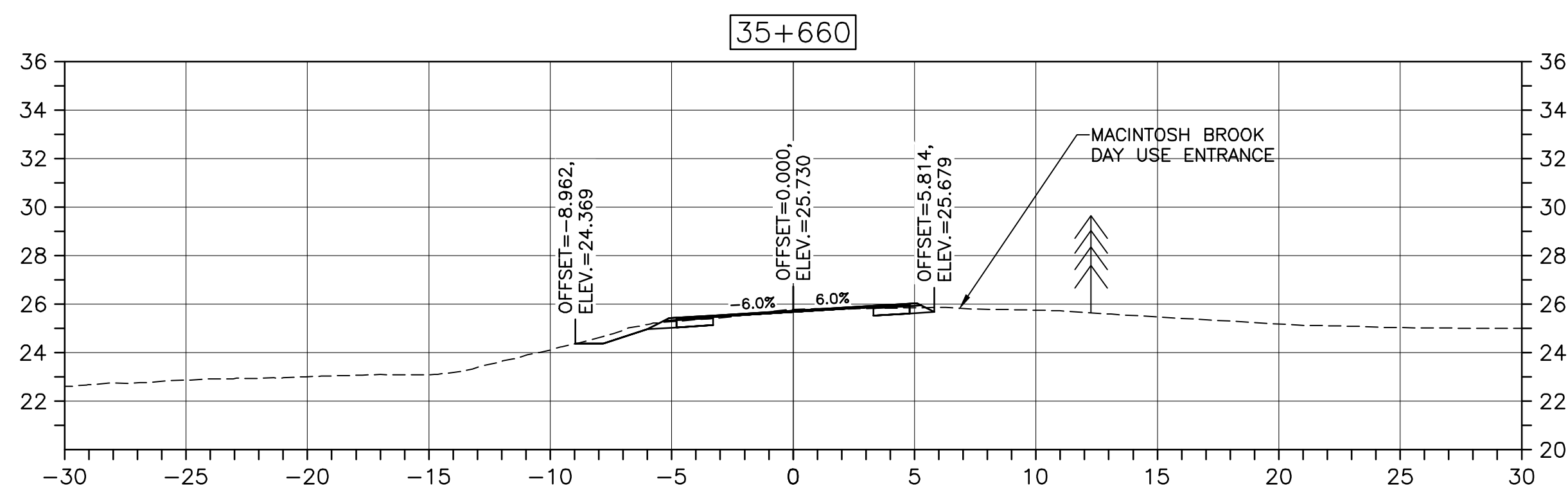
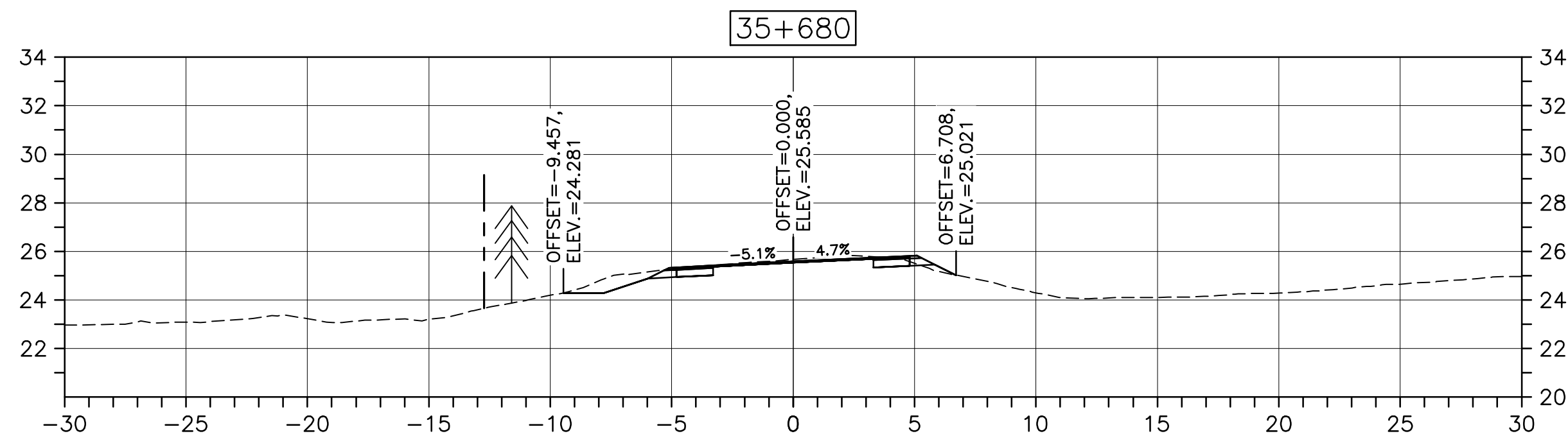
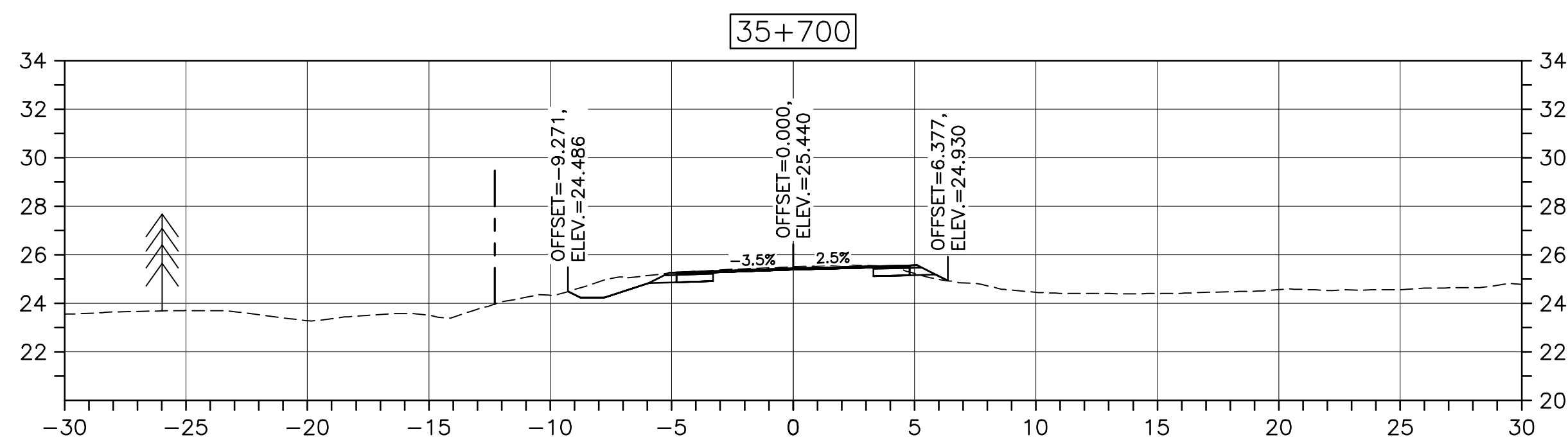
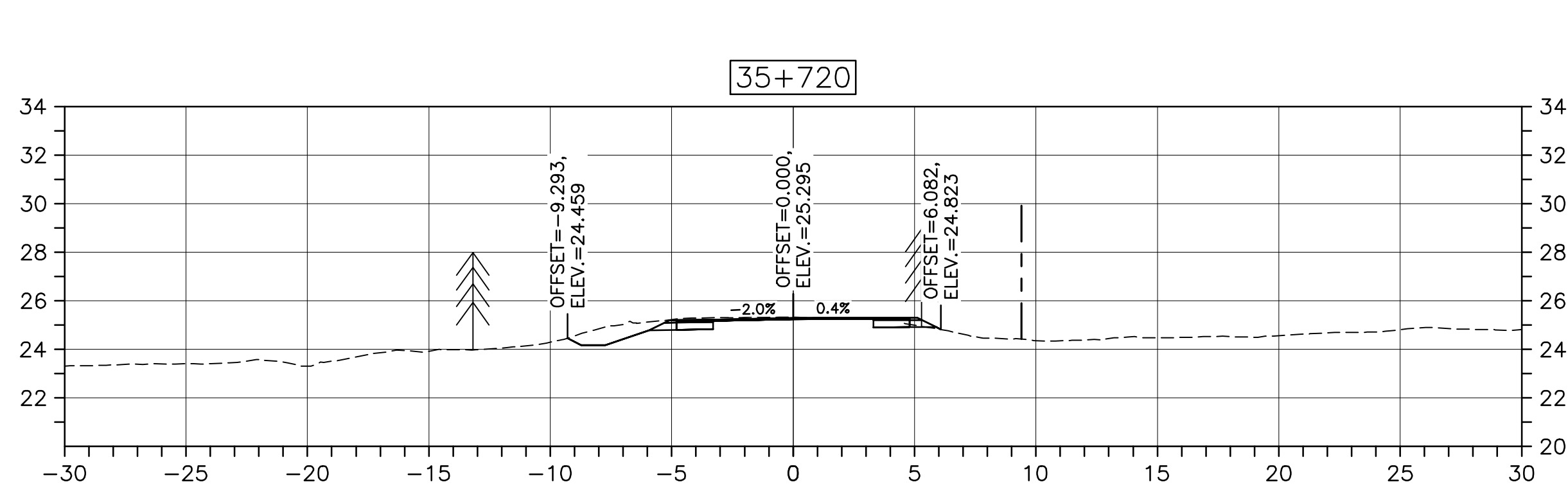
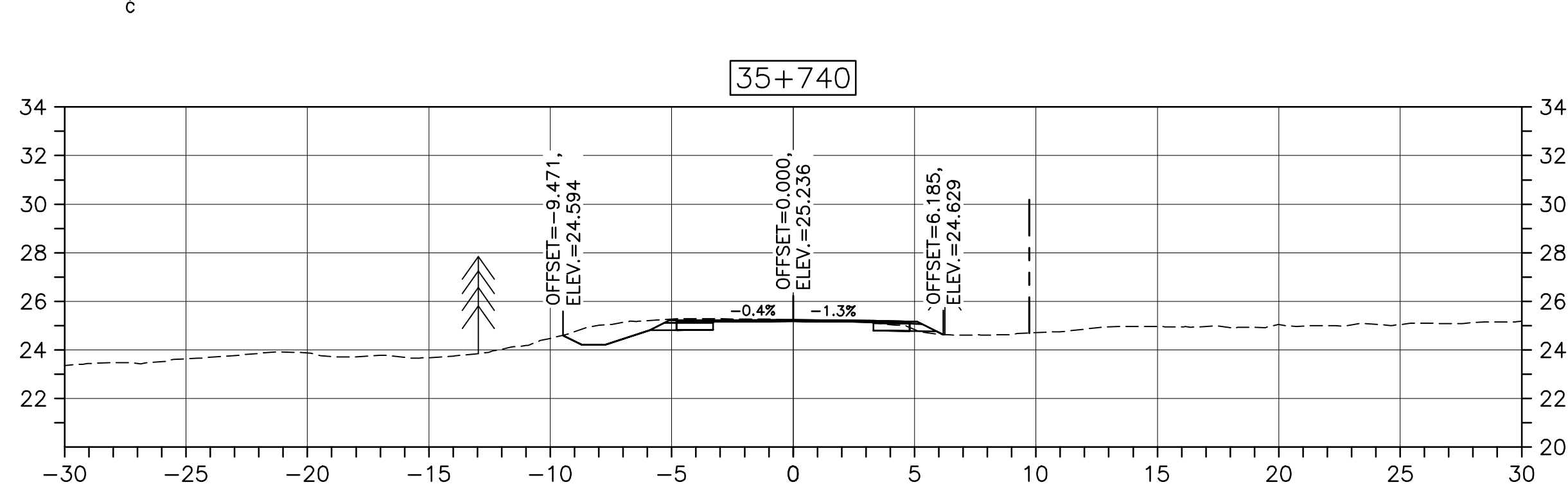
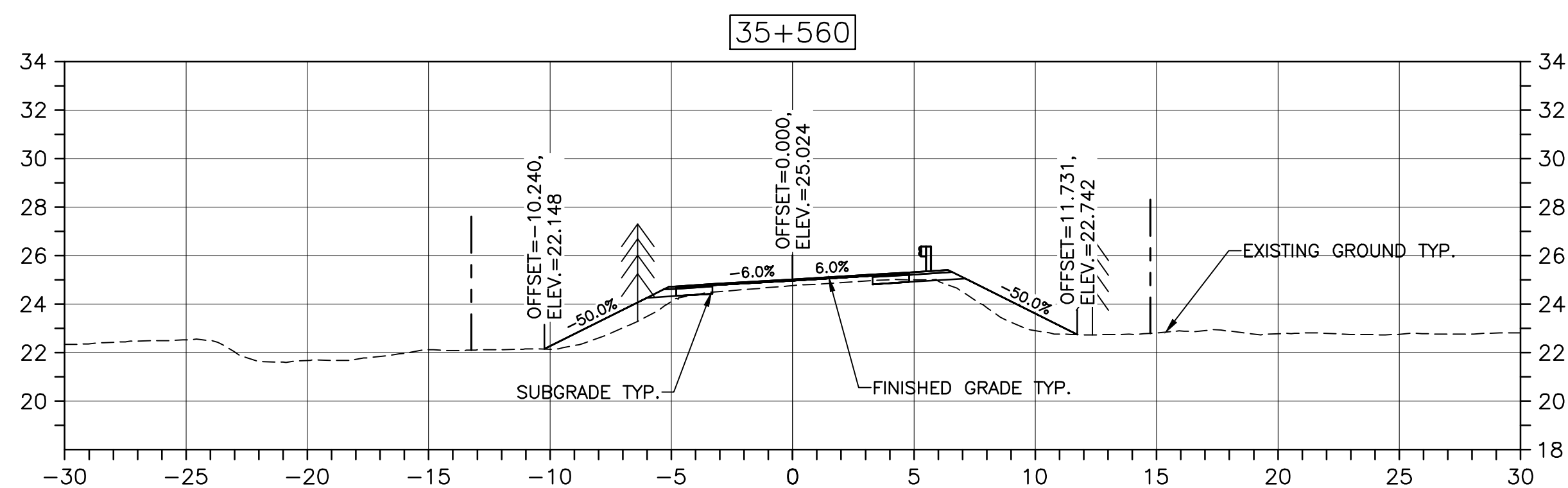
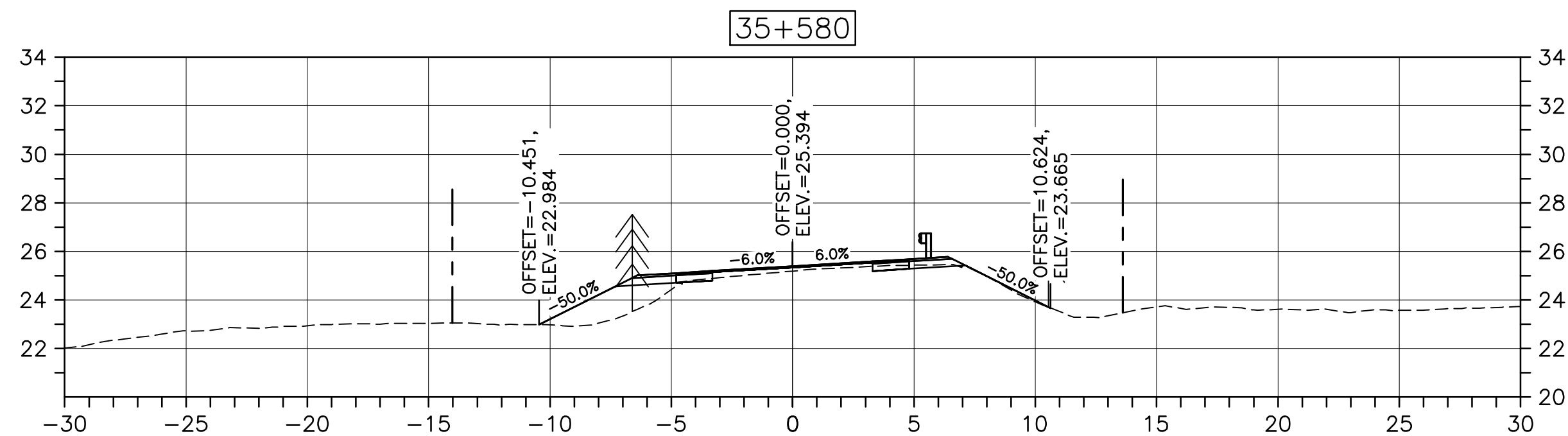
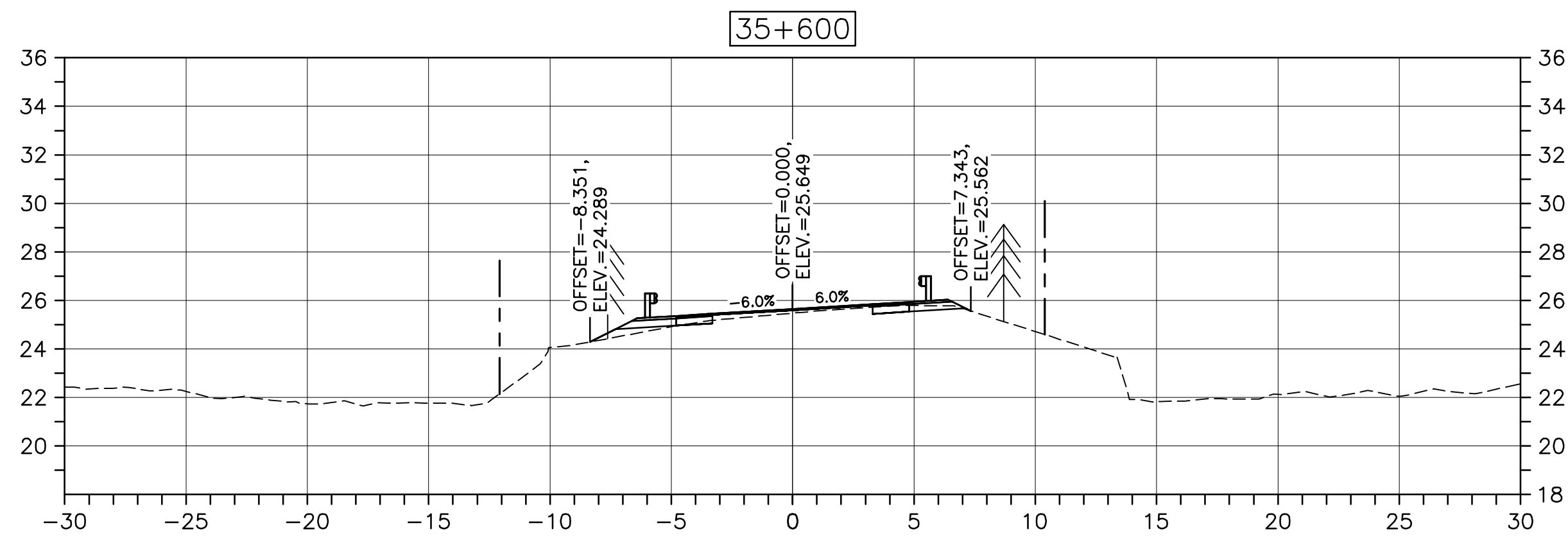
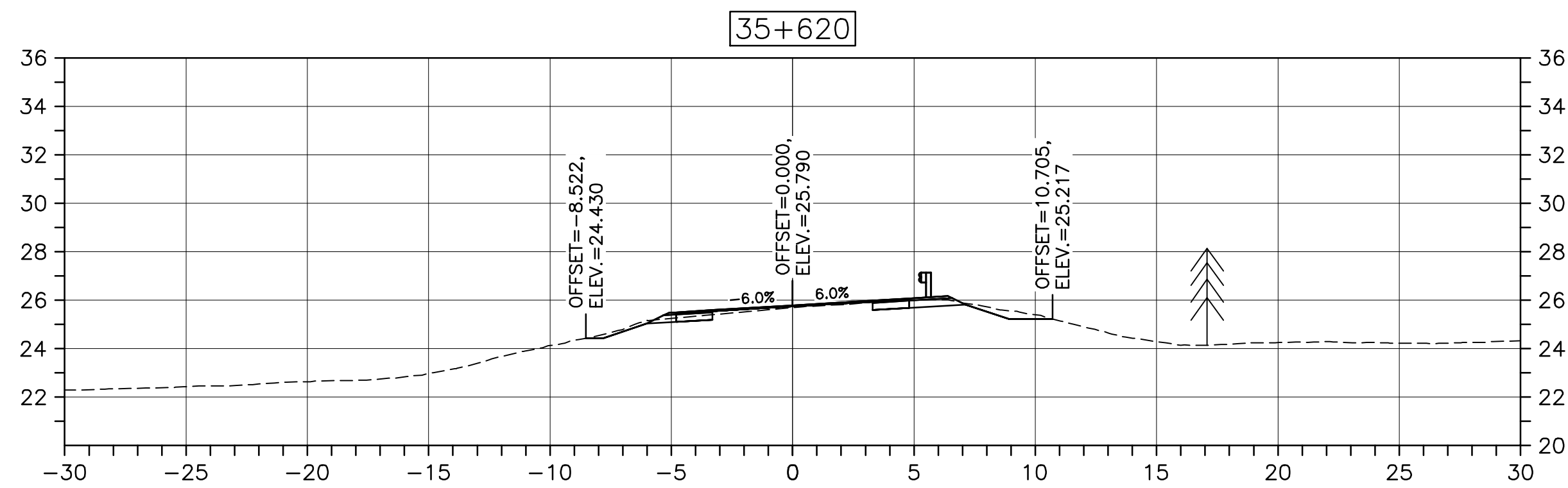
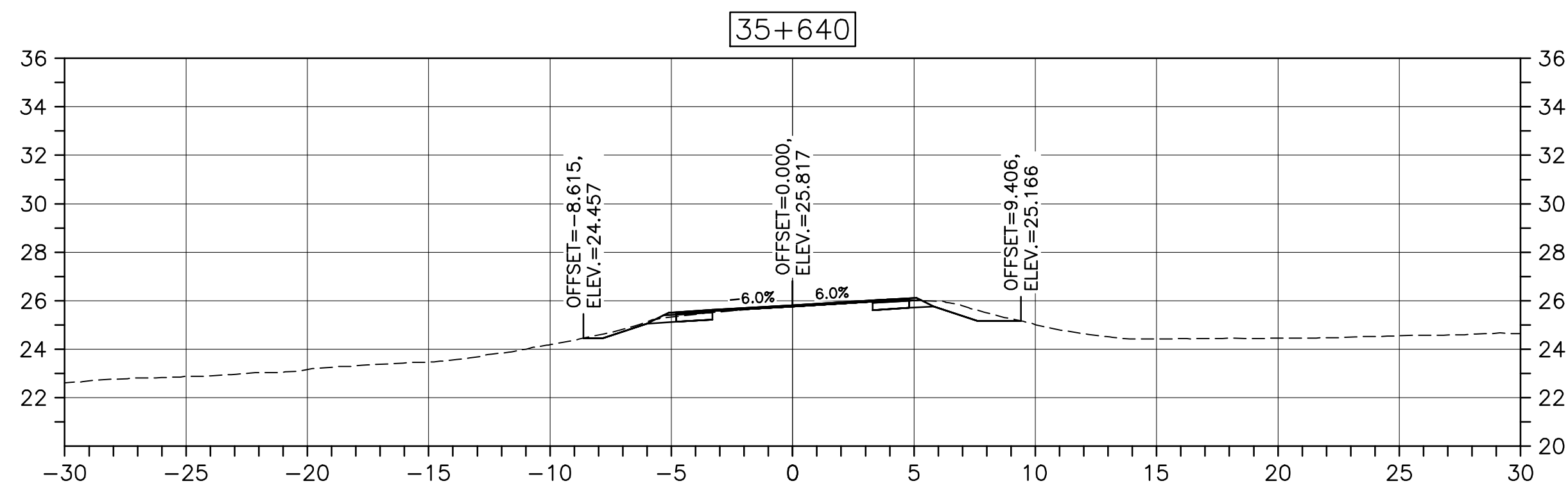
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drawing no. no. du dessin

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PWOSC A1 (2004)



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project

CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing

DESIGN SECTIONS

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Tender
PCA Project Manager

Submission
Administrateur de projets PCA

project number

1114

drawing no.

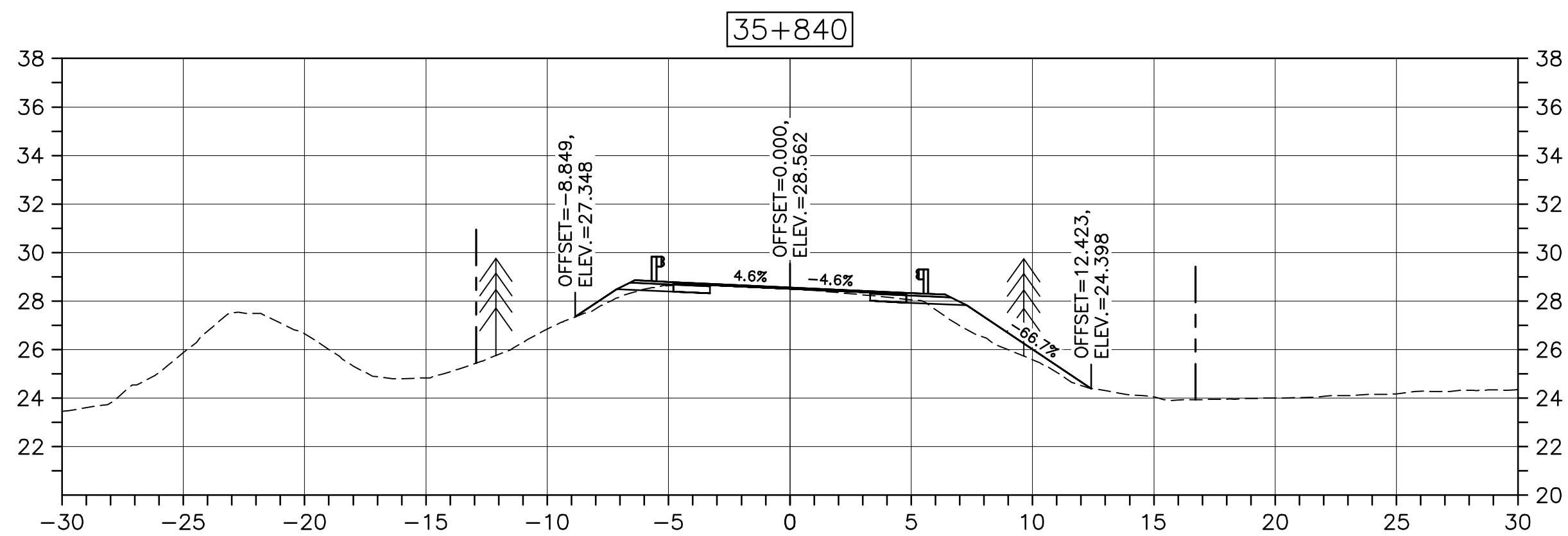
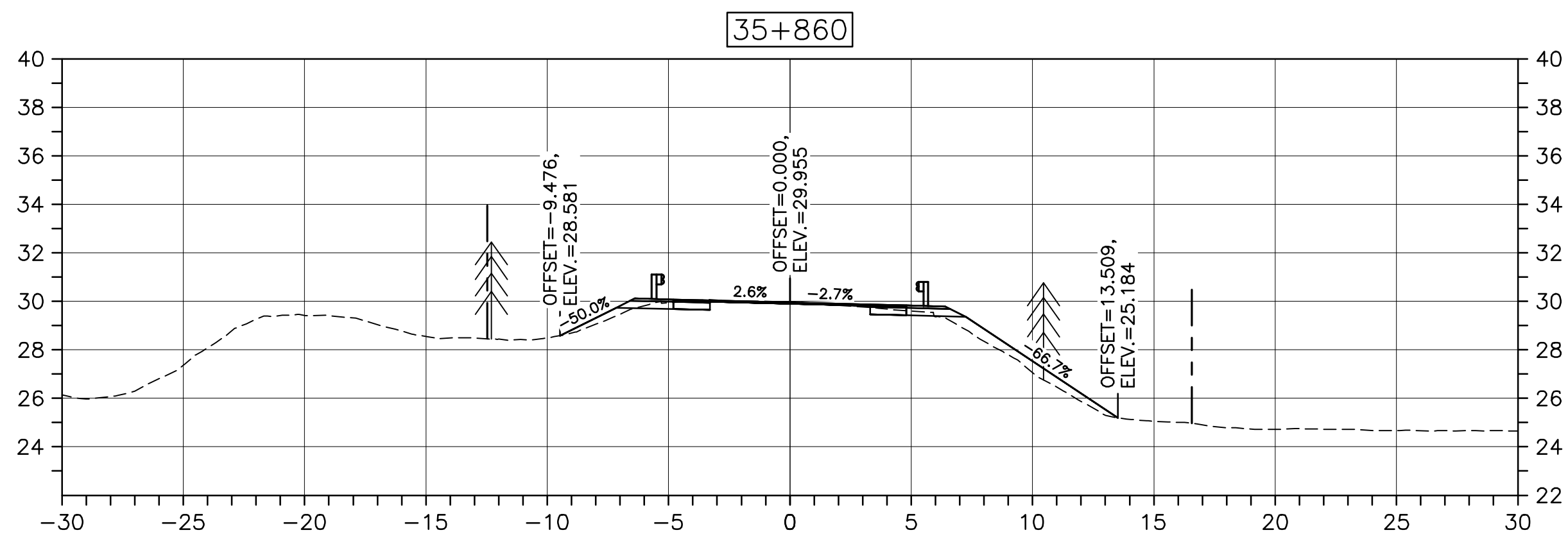
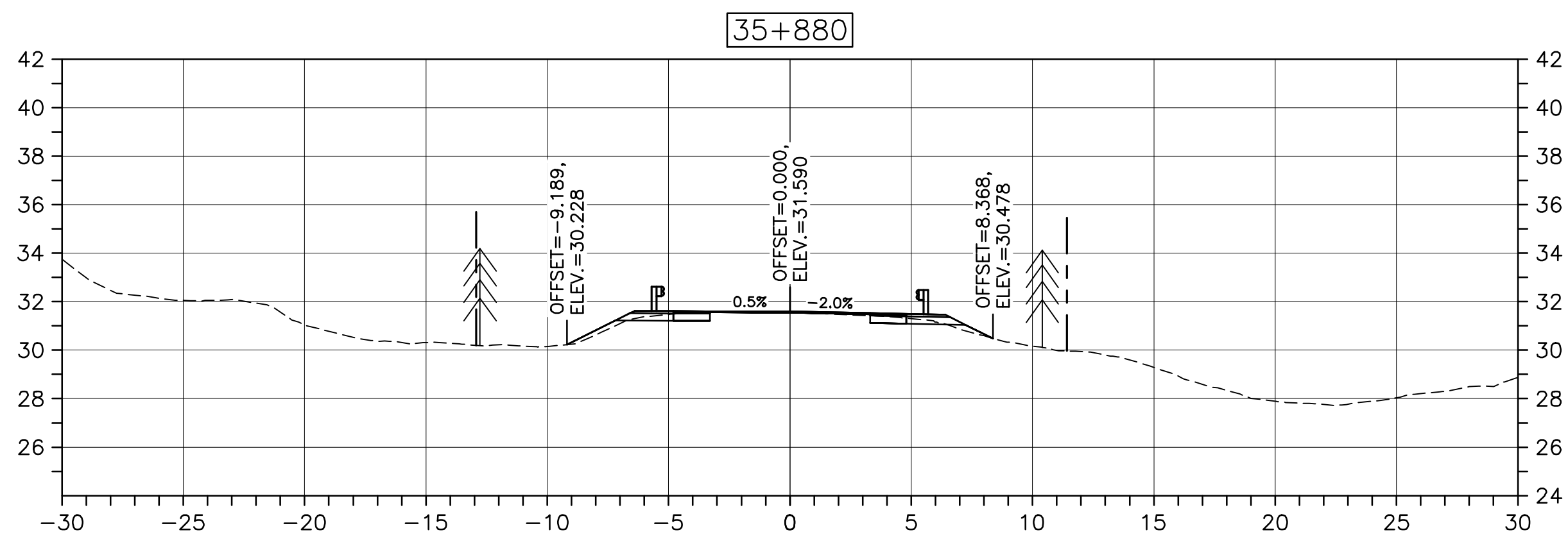
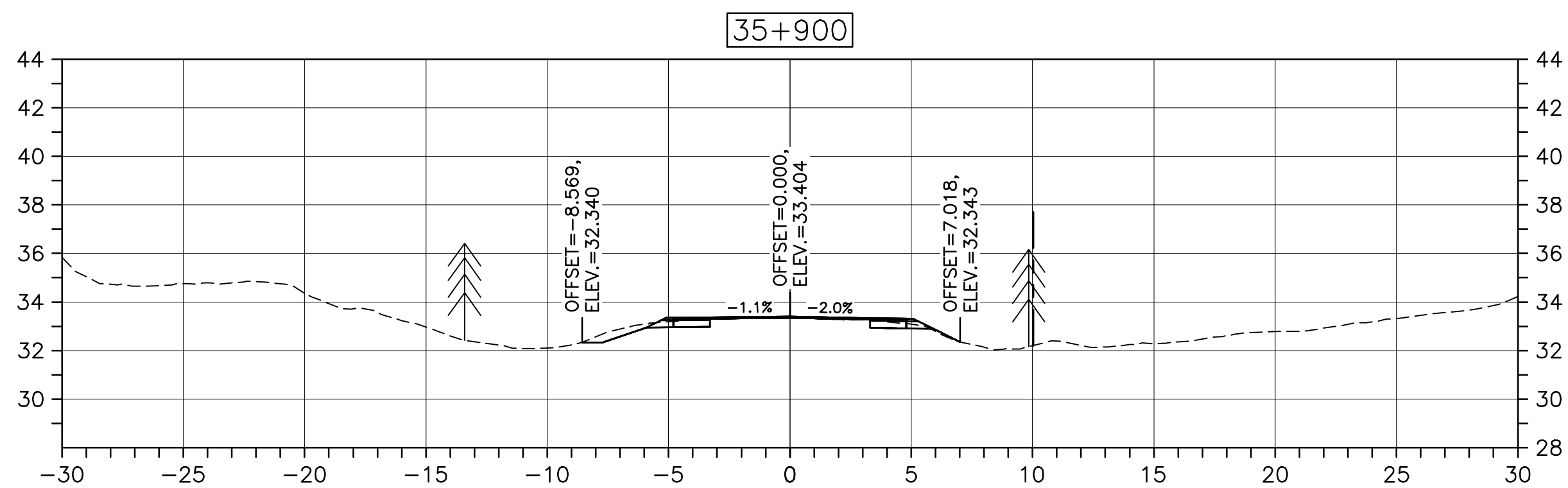
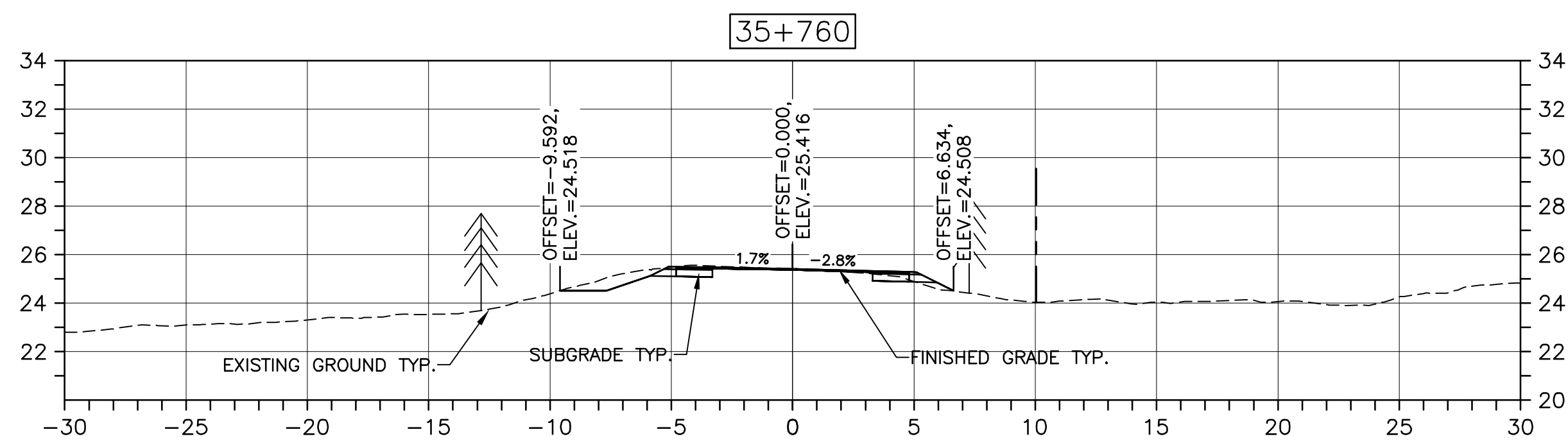
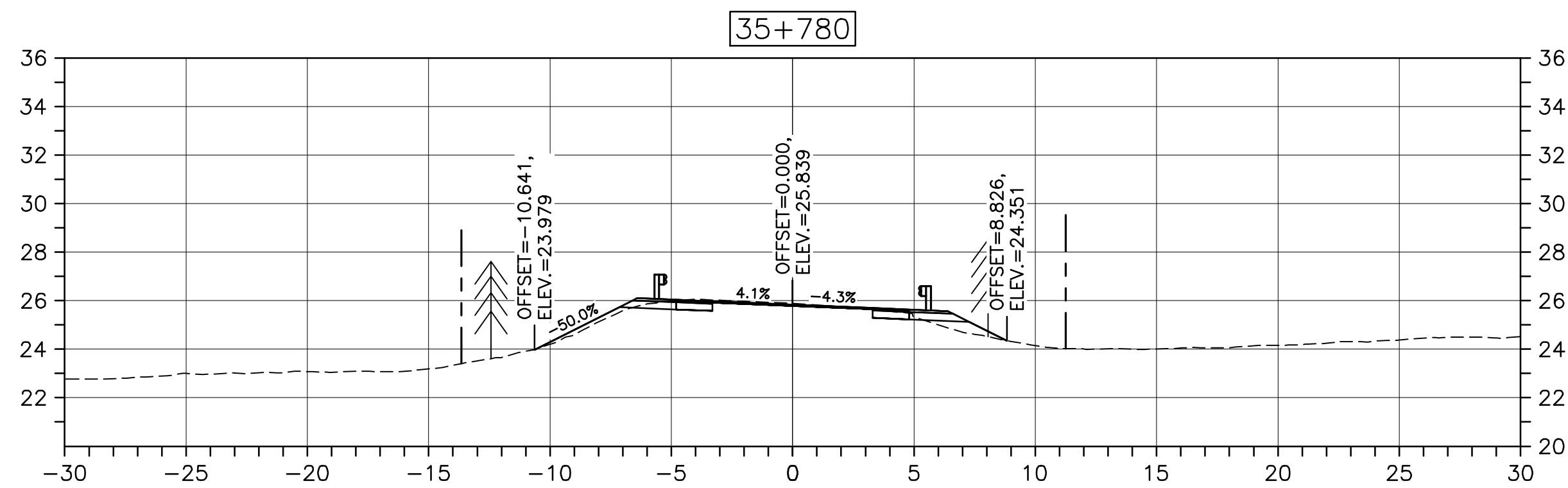
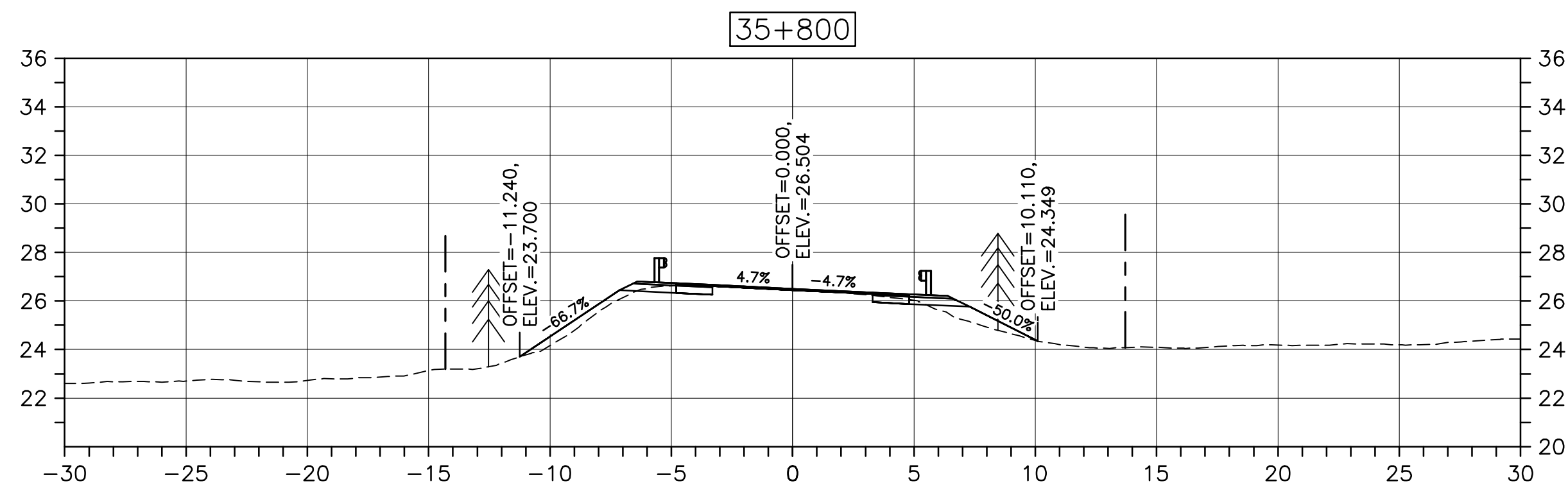
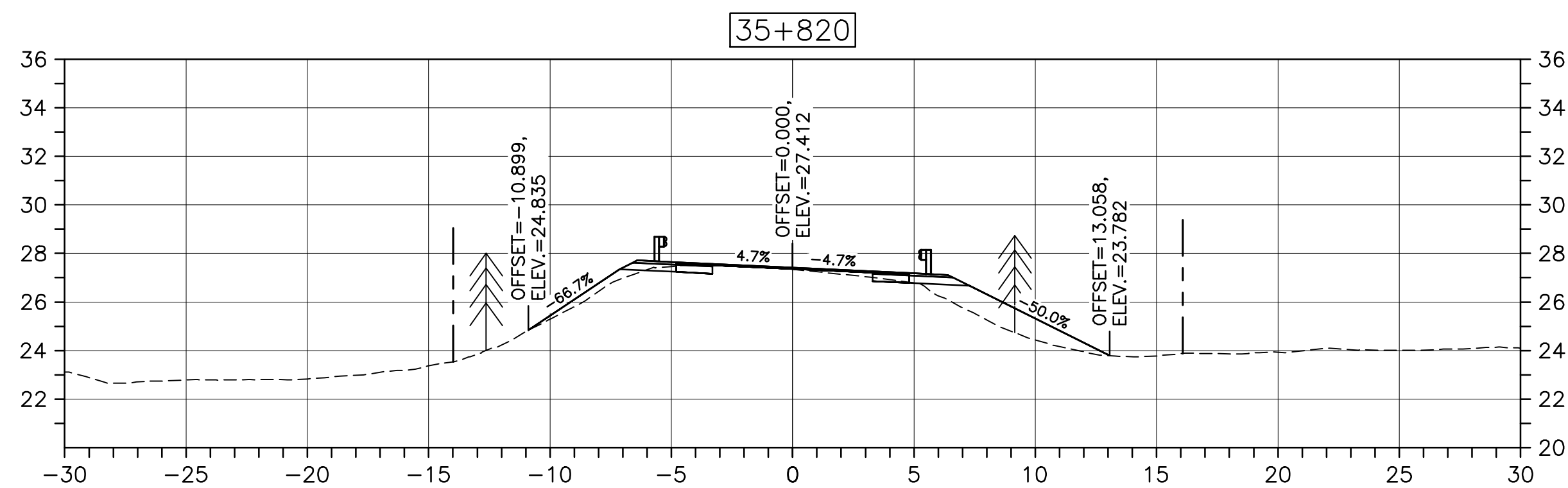
C-55

no. du projet

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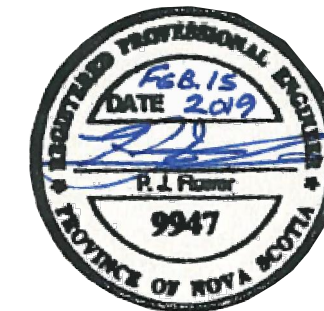
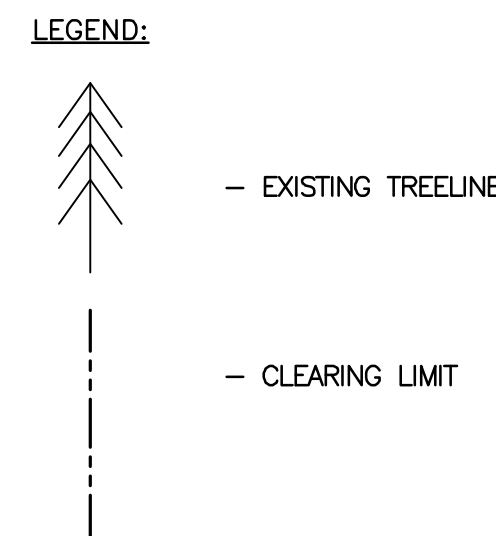
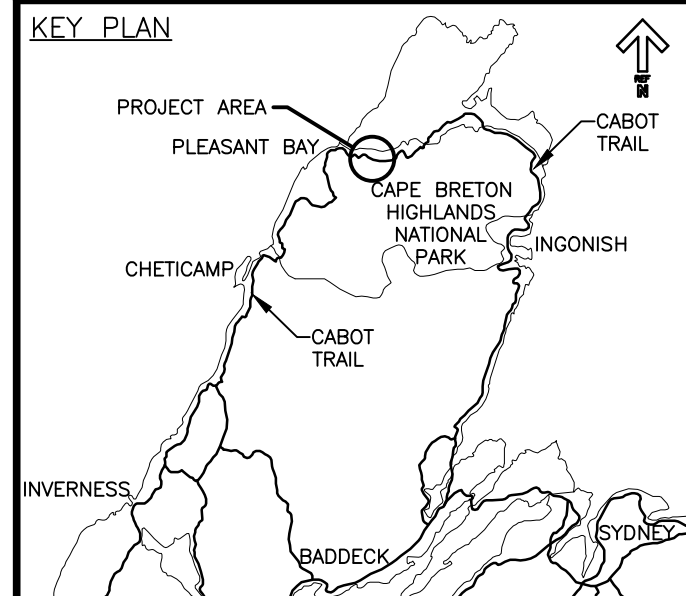
PWGS C A1 (2004)



CROSS SECTIONS
SCALE: 1:200
0m 5m 10m 15m 20m 25m



Parks Canada



0	ISSUED FOR TENDER	02/15 2019
revisions		date

project project
**CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessin

DESIGN SECTIONS

designed DSC	conçu
date MAY. 31, 2018	
drawn JLD/CCP	dessiné
date MAY. 31, 2018	
approved RMB	approuvé
date FEB. 15, 2019	

Tender Soumission
PCA Project Manager Administrateur de projets PCA

project number no. du projet

1114

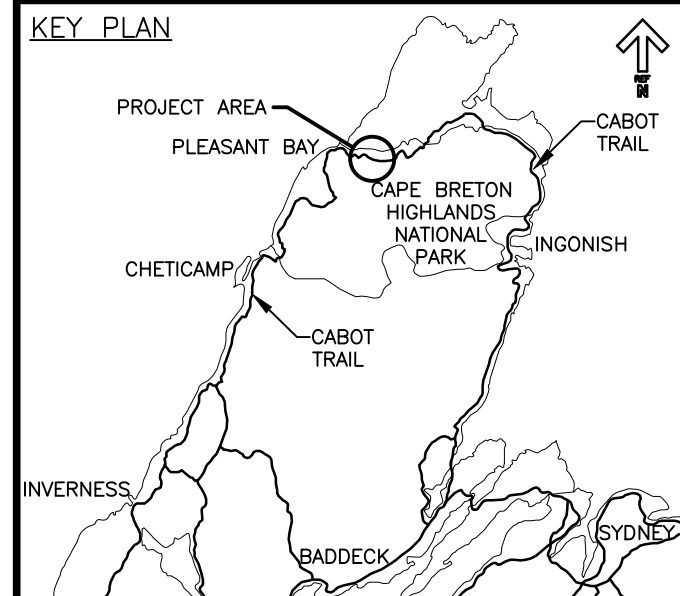
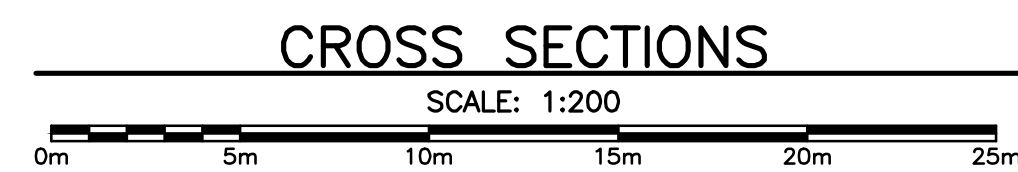
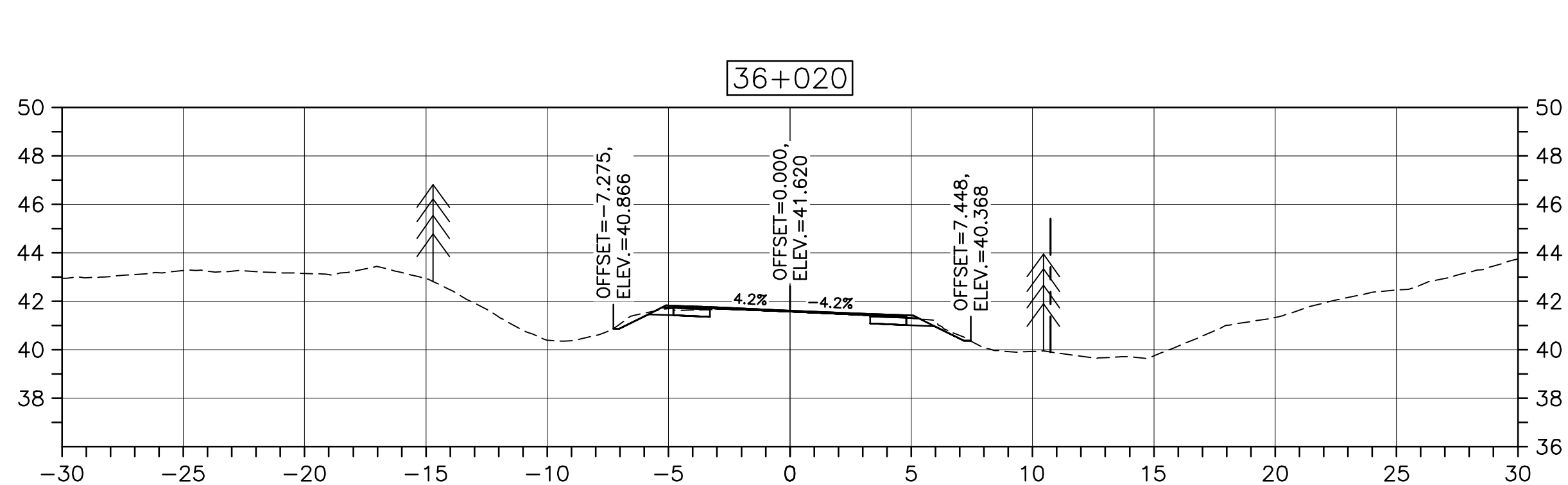
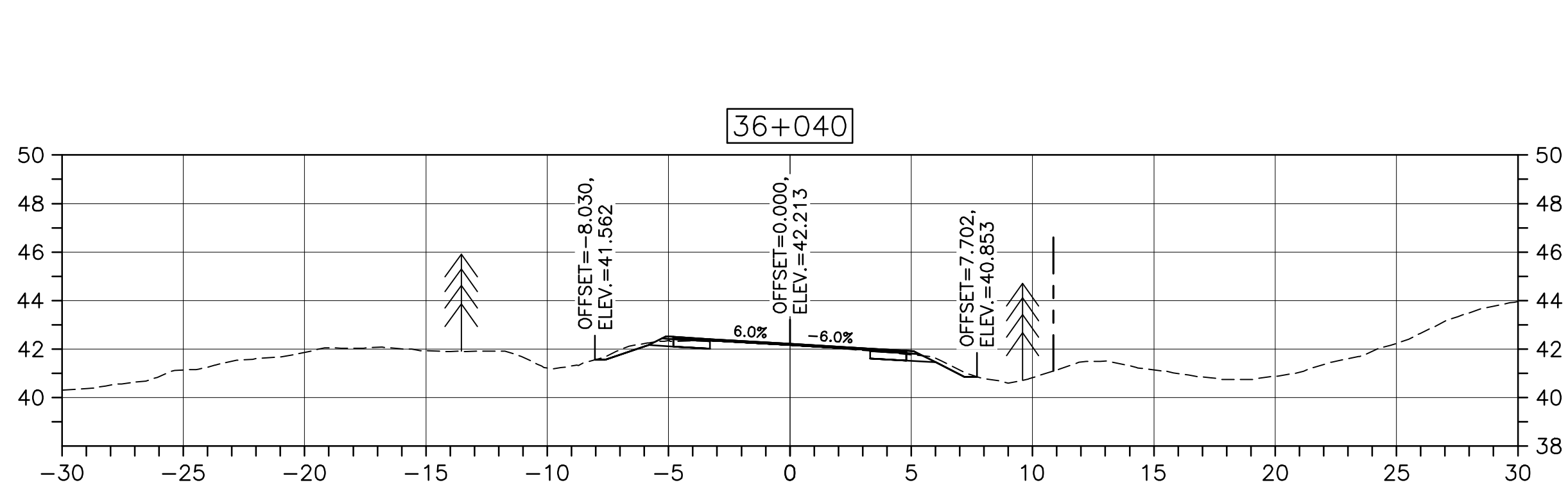
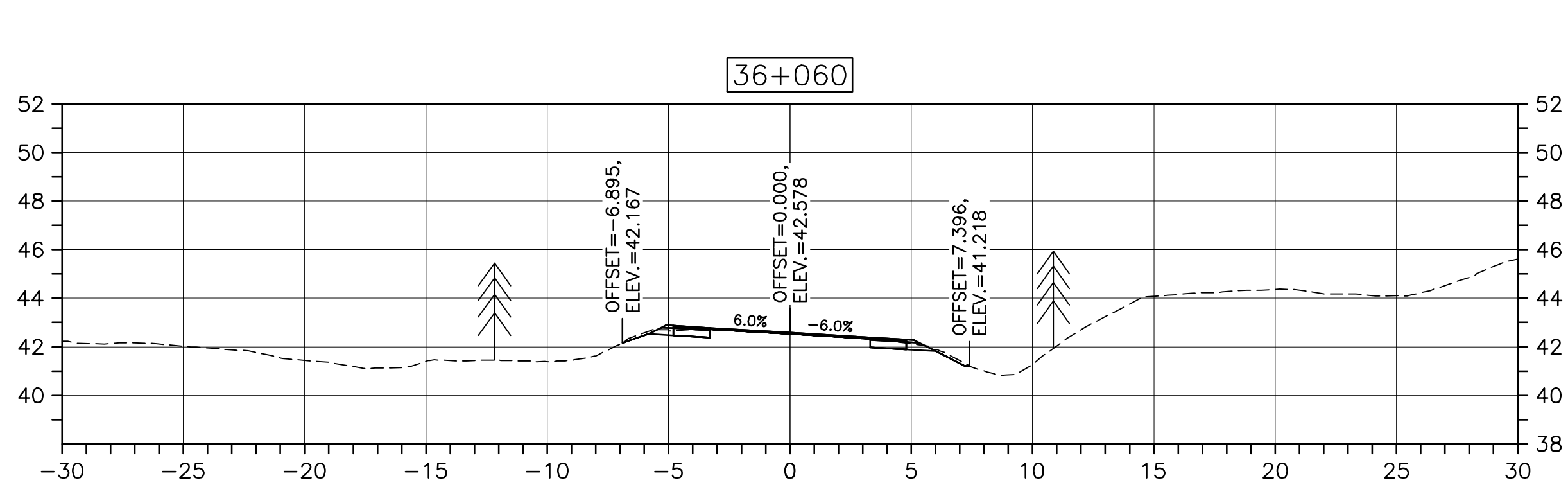
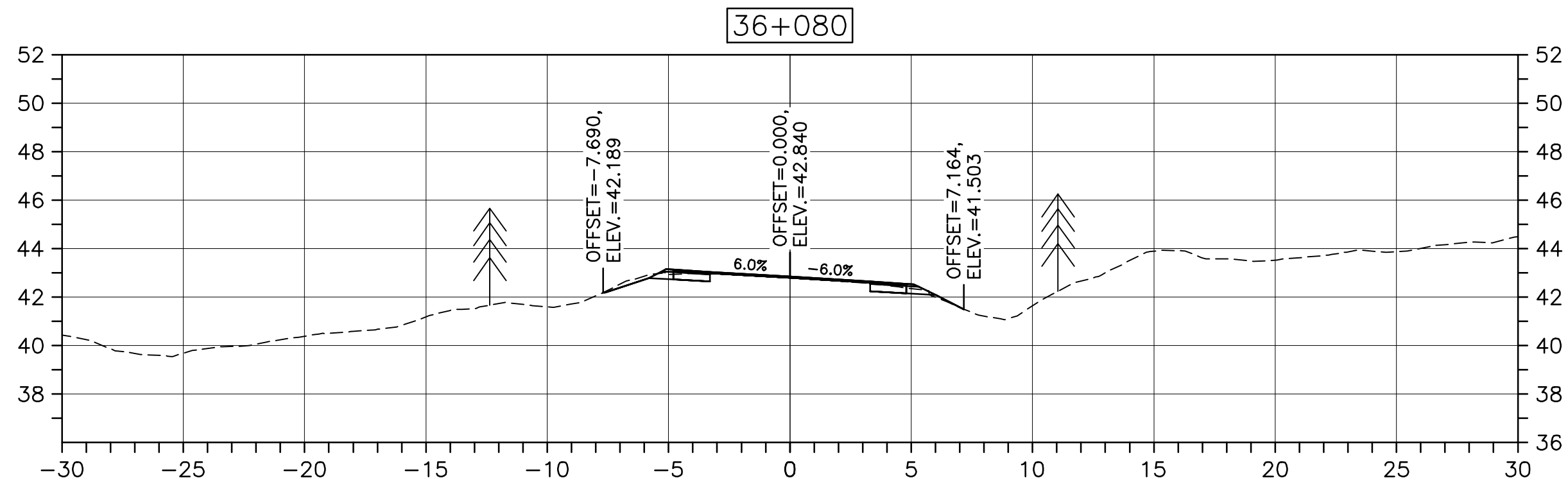
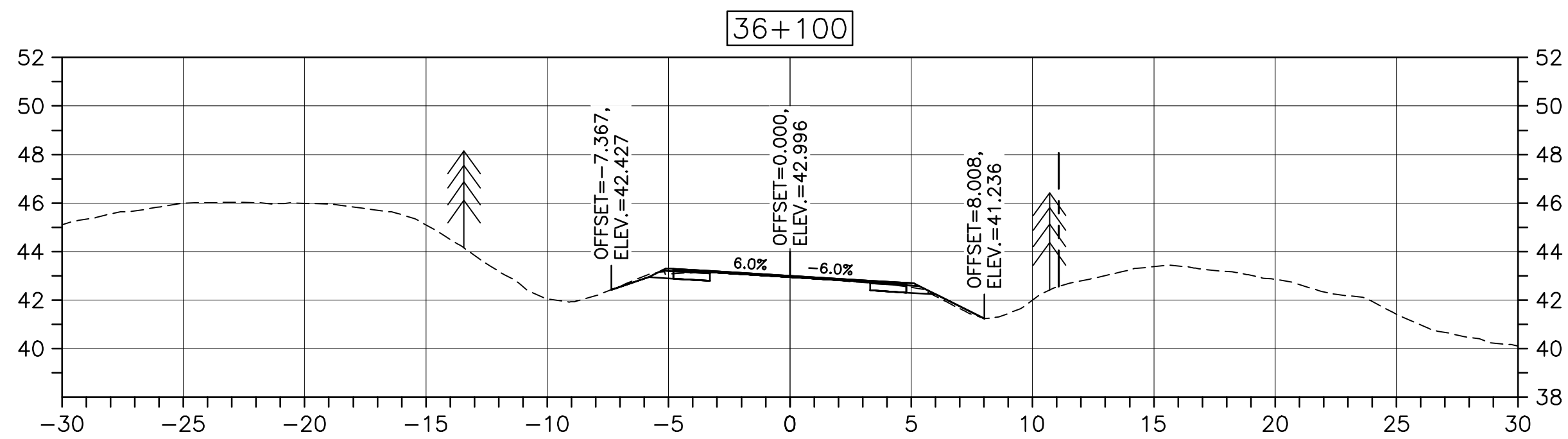
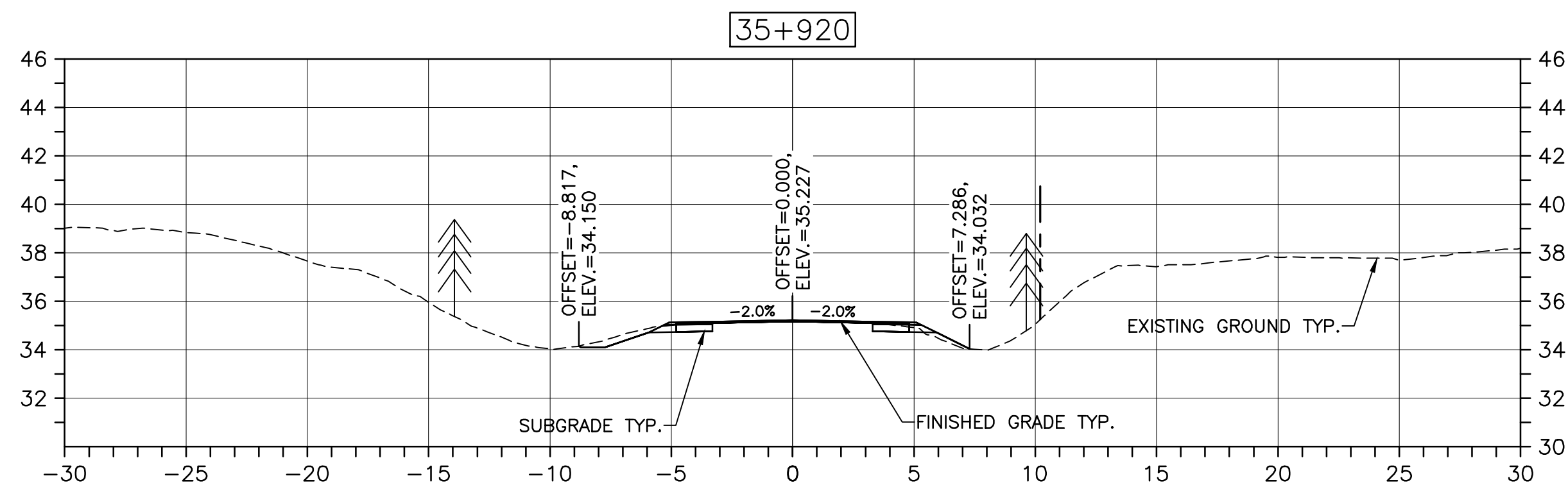
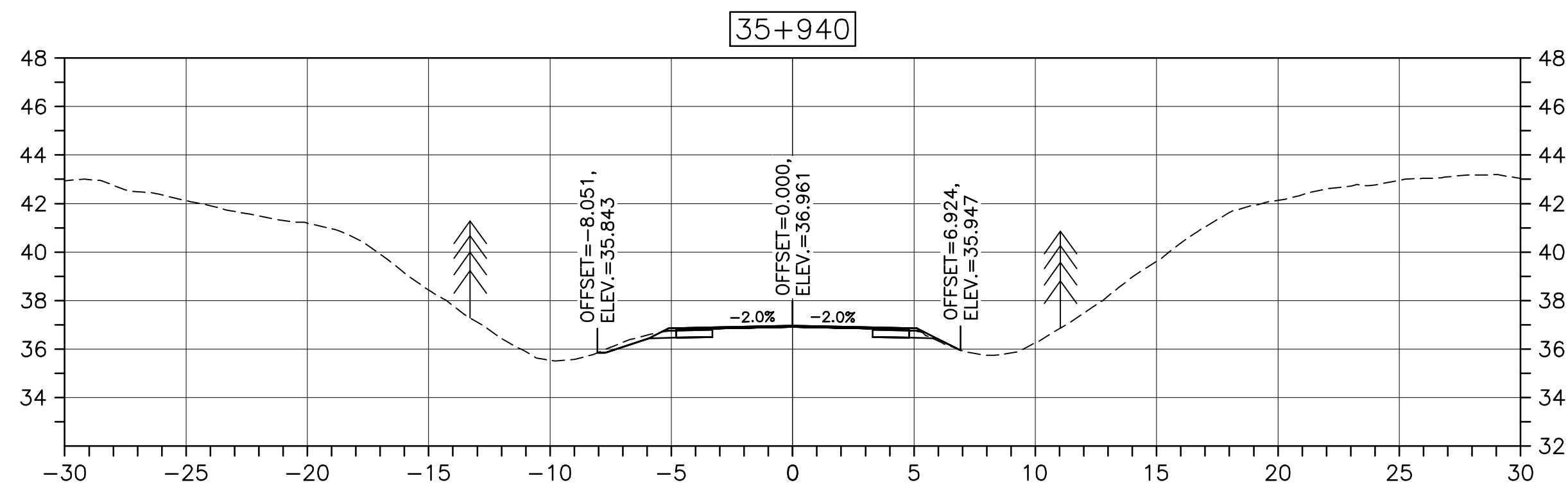
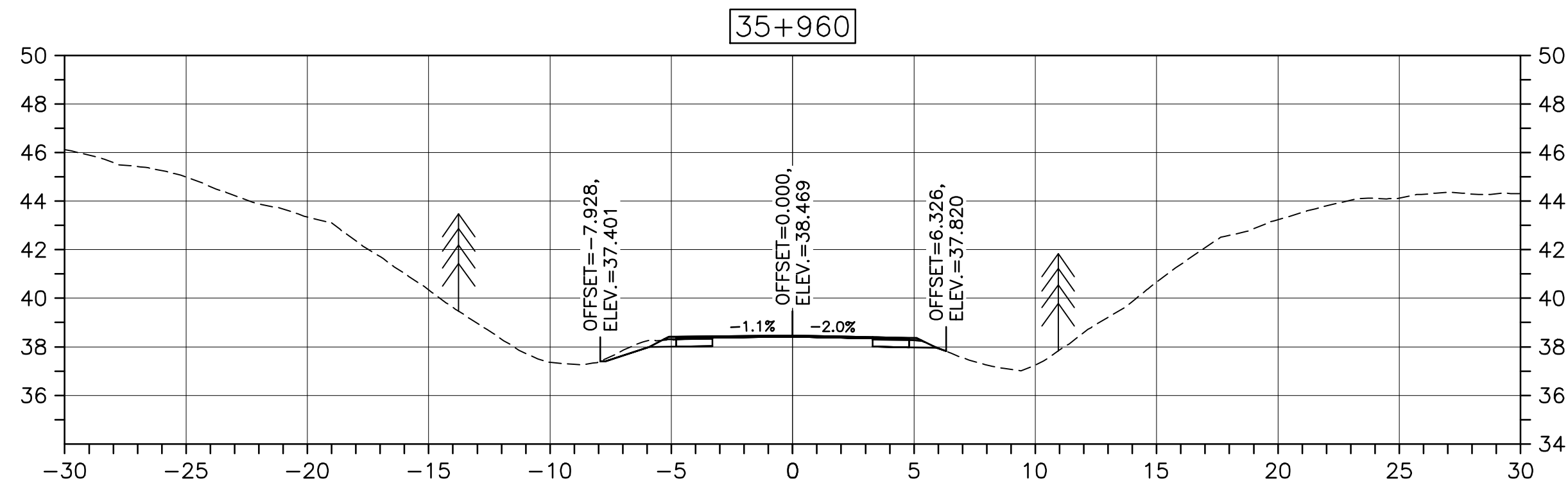
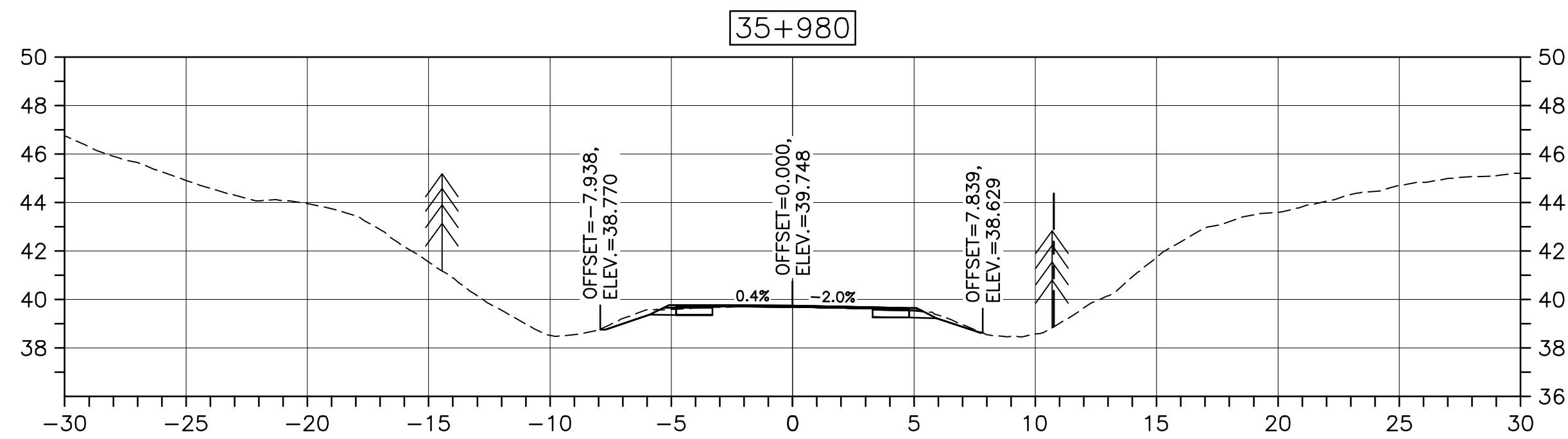
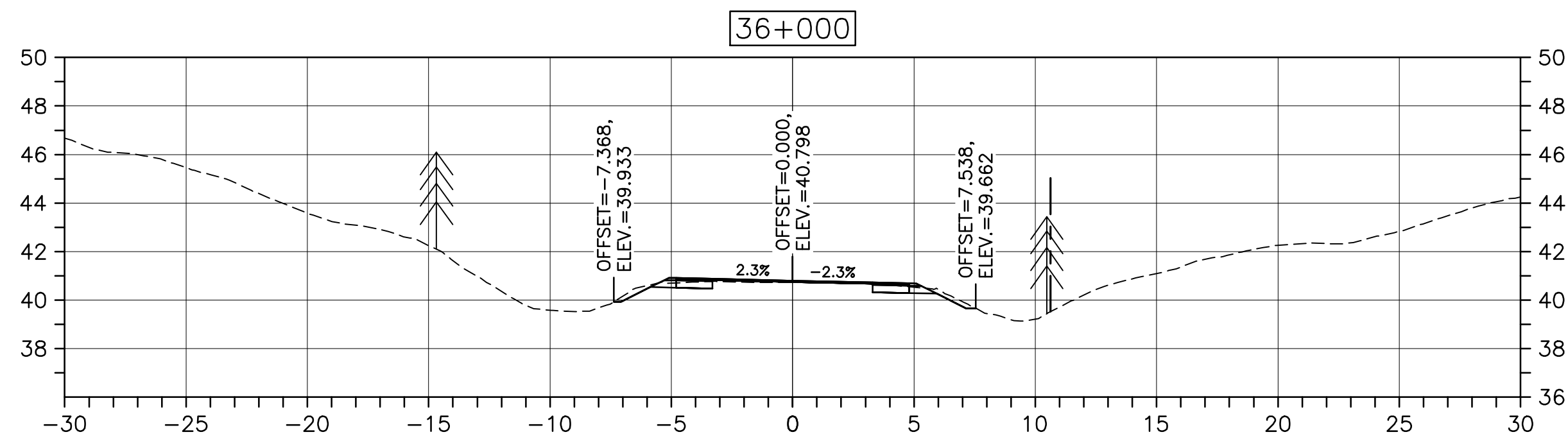
drawing no. no. du dessin

C-56

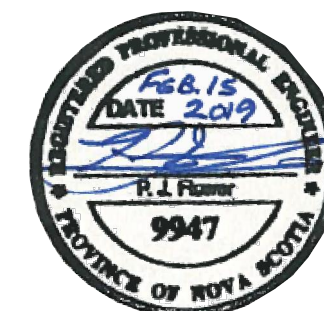
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PWOSC A1 (2004)



- LEGEND:
- EXISTING TREELINE
 - CLEARING LIMIT



0	ISSUED FOR TENDER	02/15 2019
revisions		date

project CABOT TRAIL REHABILITATION PLEASANT BAY TO NORTH MOUNTAIN CAPE BRETON HIGHLANDS NATIONAL PARK

drawing dessin

DESIGN SECTIONS

designed DSC	conçu
date MAY. 31, 2018	
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Tender PCA Project Manager Soumission Administrateur de projets PCA

project number no. du projet

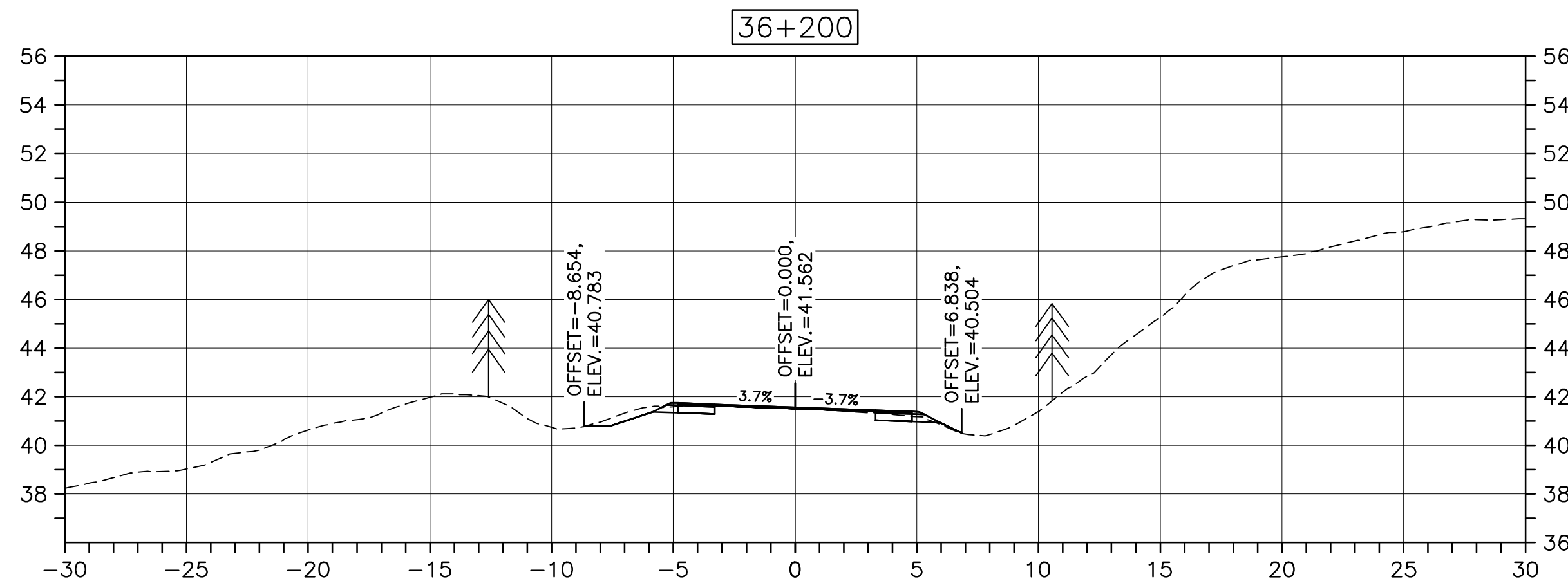
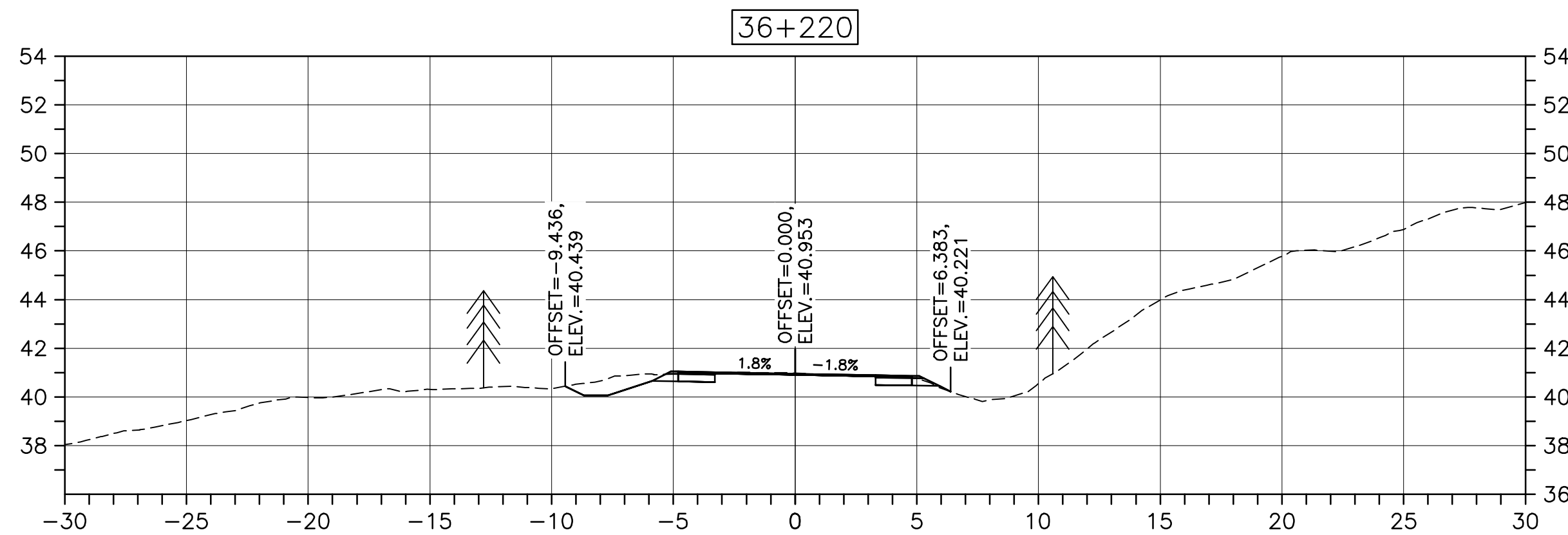
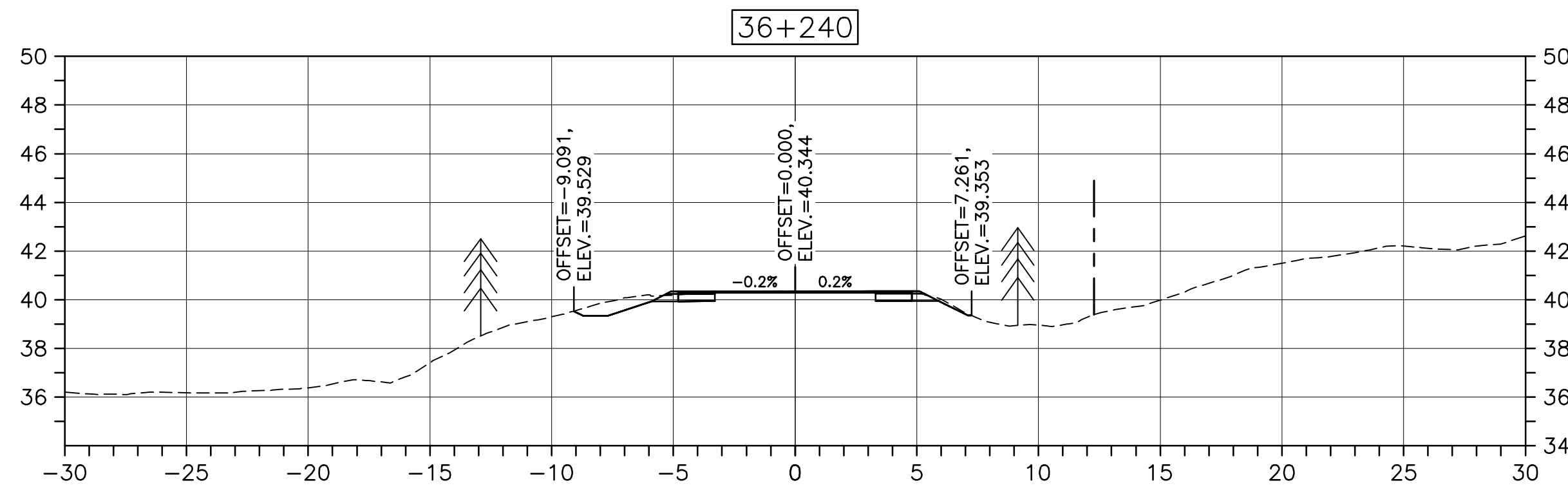
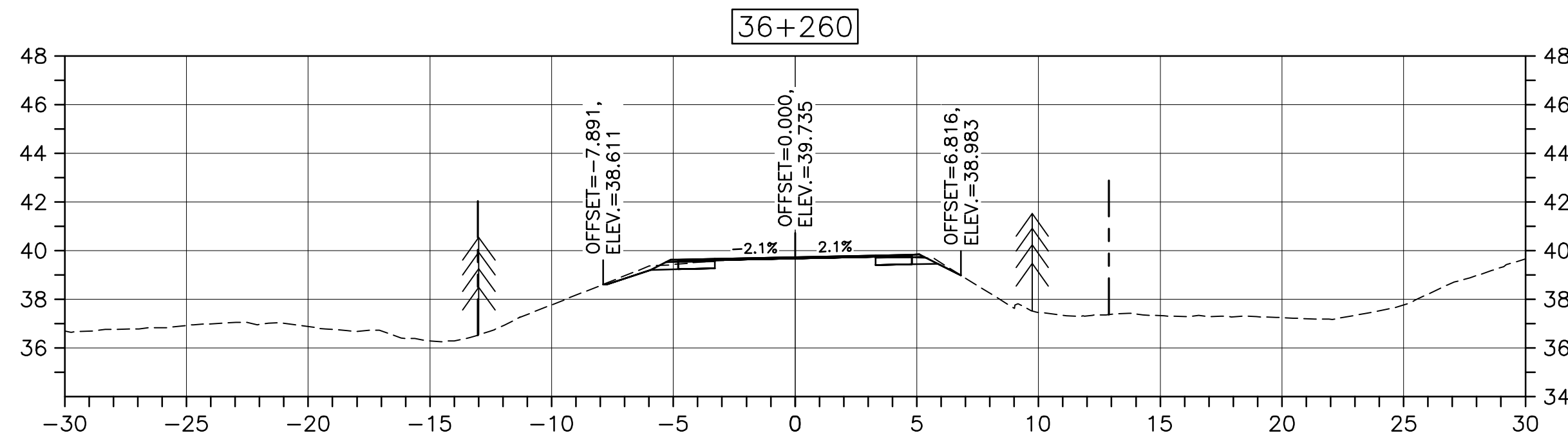
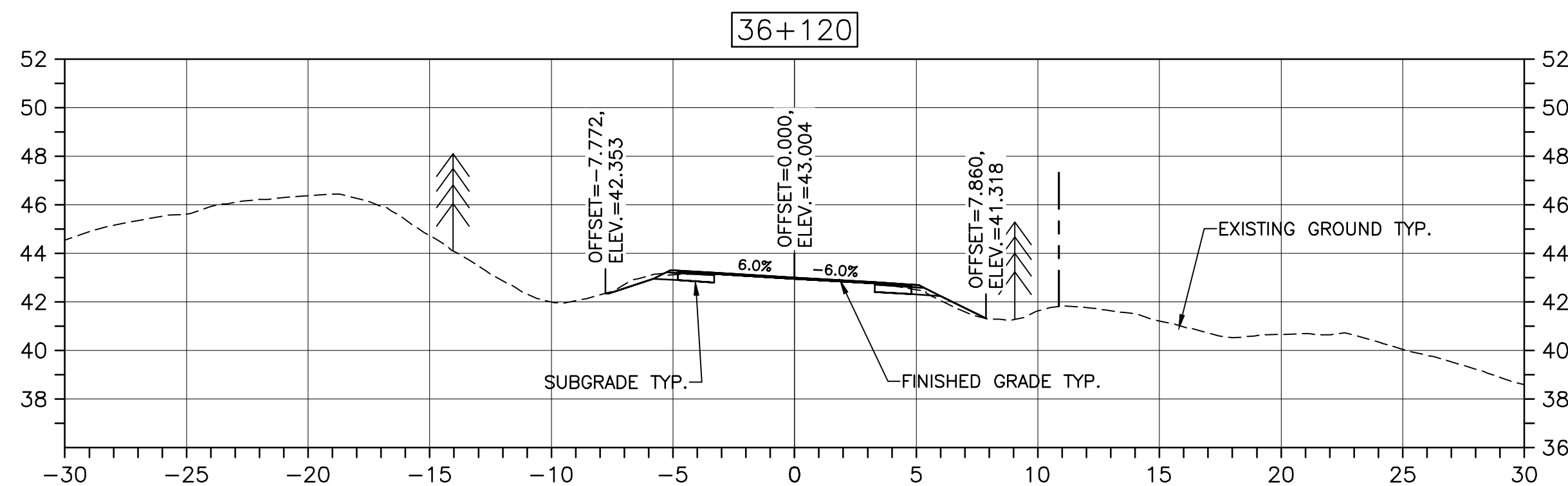
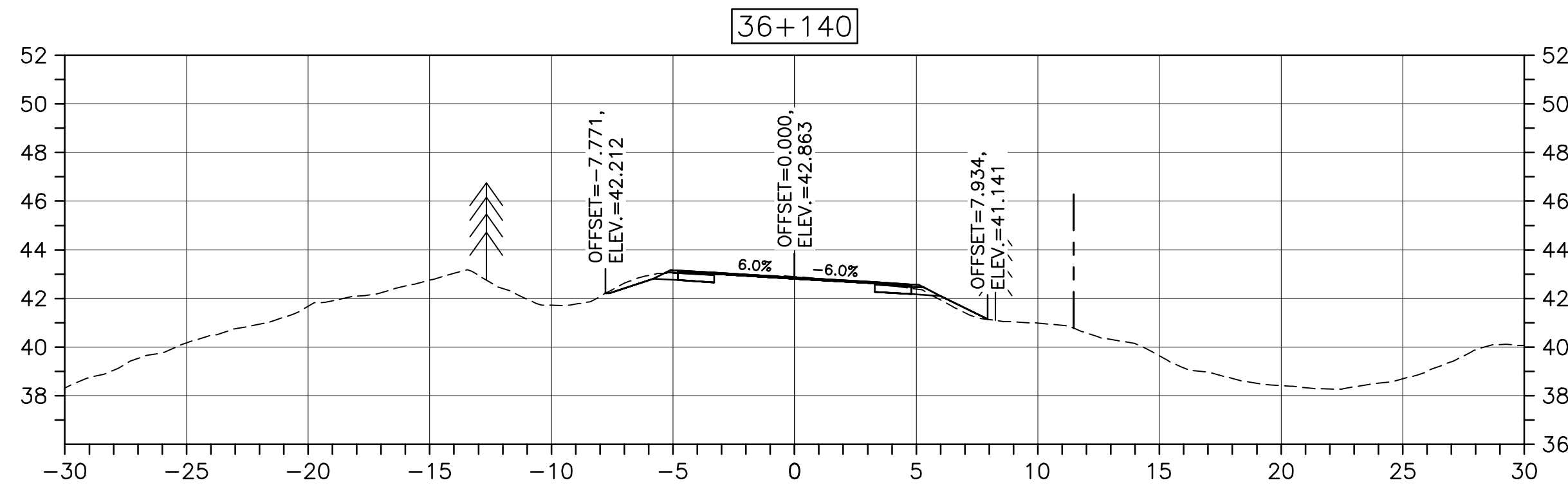
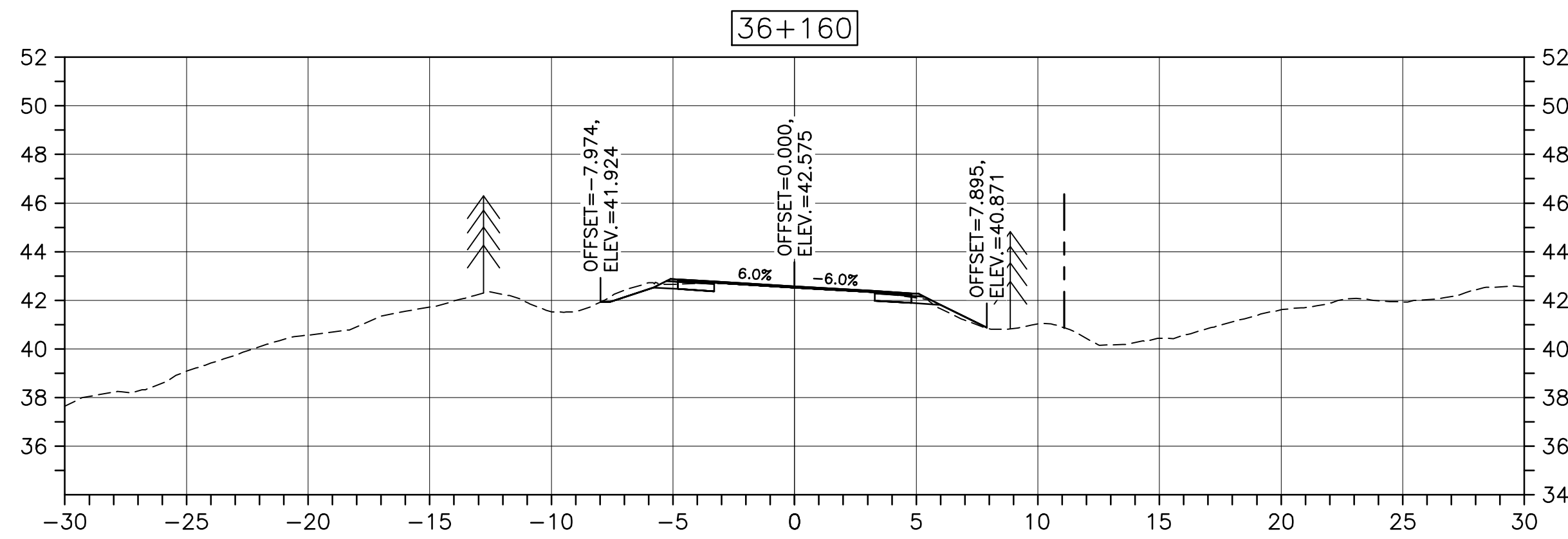
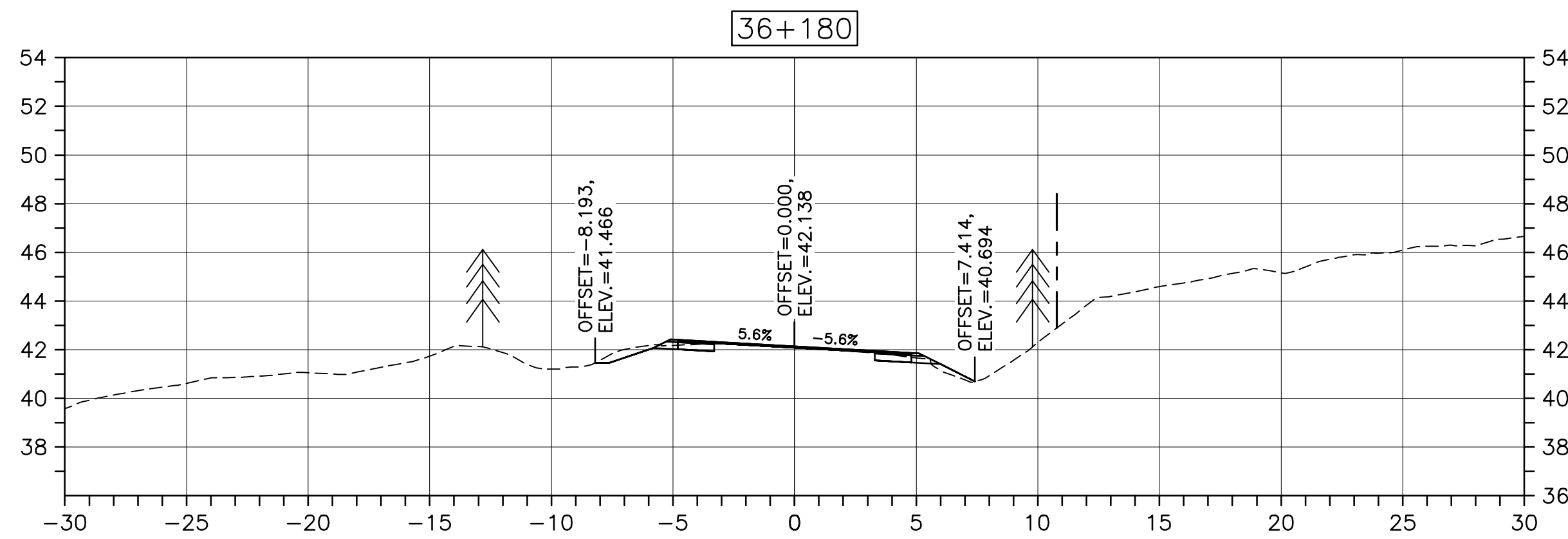
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drawing no. no. du dessin

C-57

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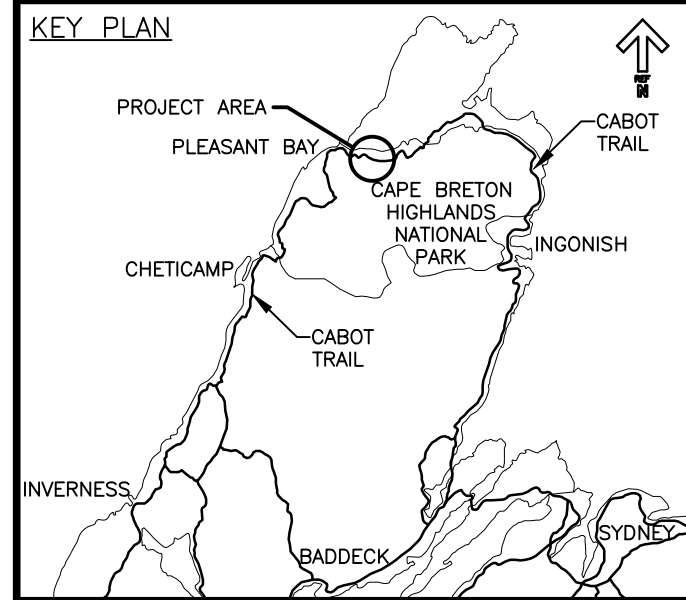
PWGSC A1 (2004)



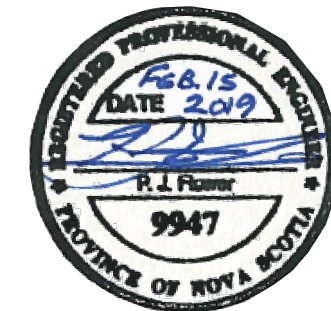
CROSS SECTIONS
SCALE: 1:200
0m 5m 10m 15m 20m 25m



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Parcs Canada



LEGEND:
- EXISTING TREELINE
- CLEARING LIMIT



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project

CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing

DESIGN SECTIONS

designed	DSC	conçu
date	MAY. 31, 2018	
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date	FEB. 15, 2019	

Tender
PCA Project Manager

no. du projet

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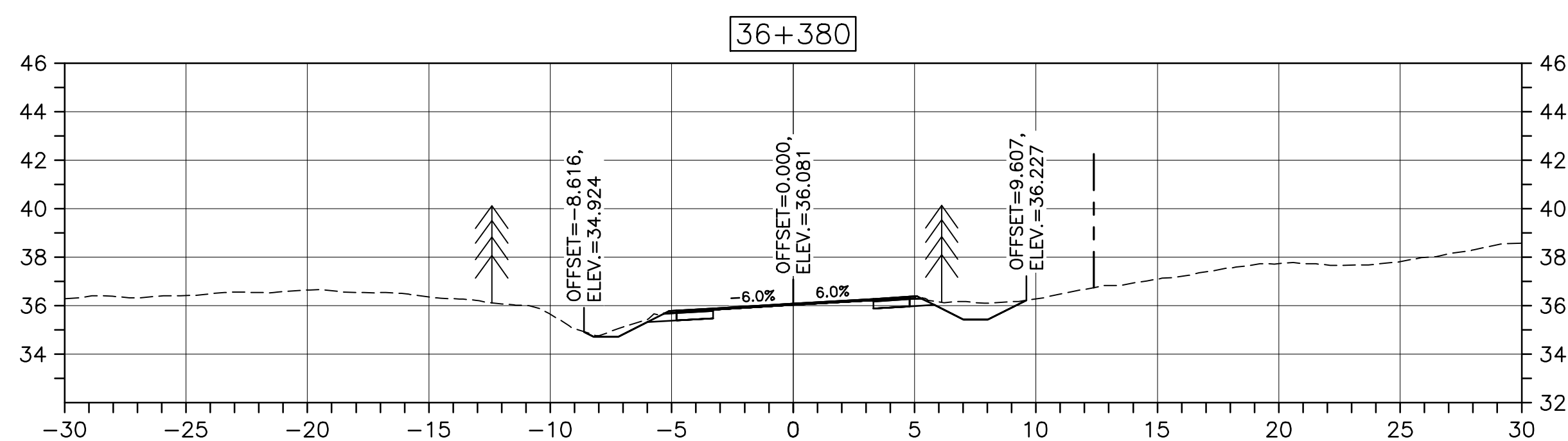
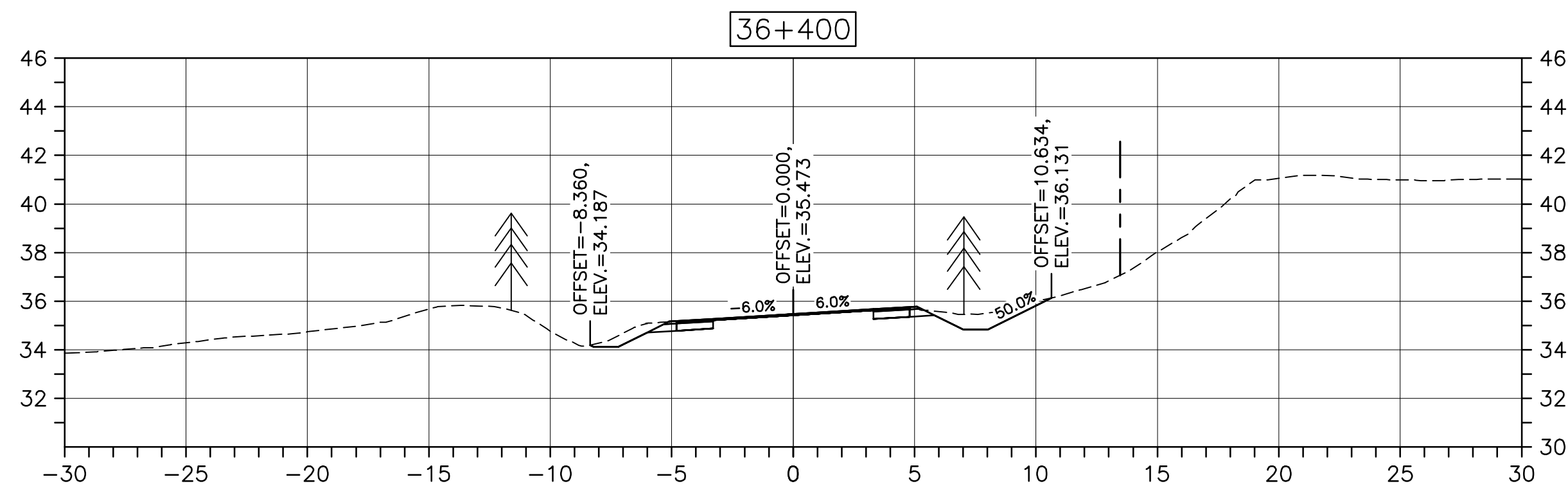
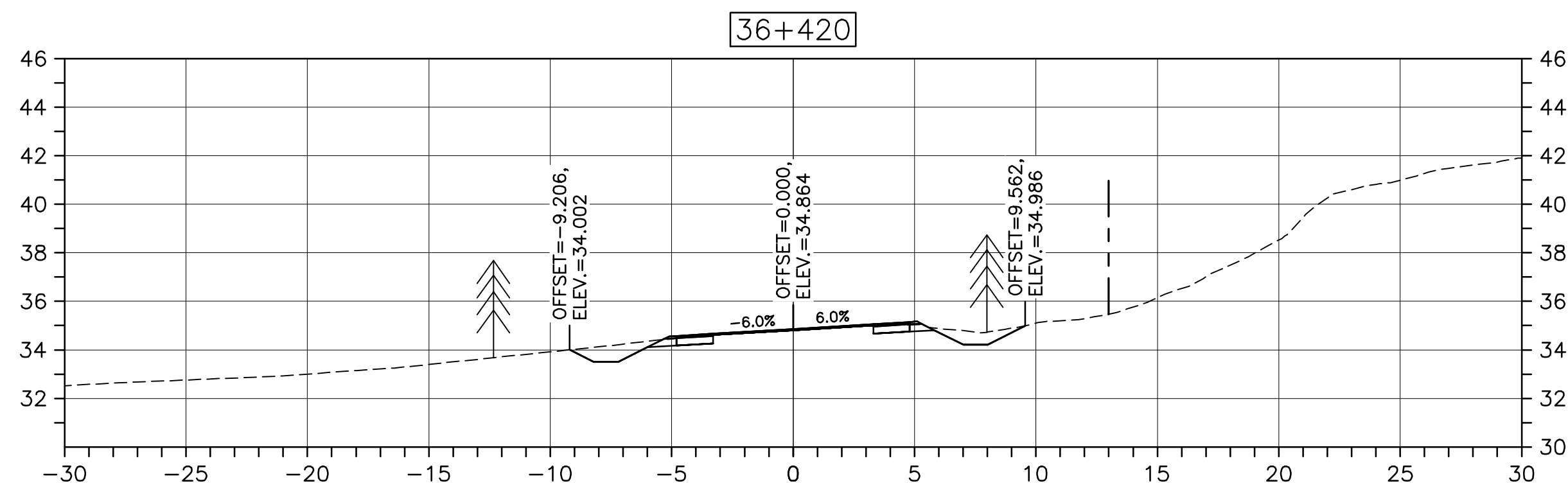
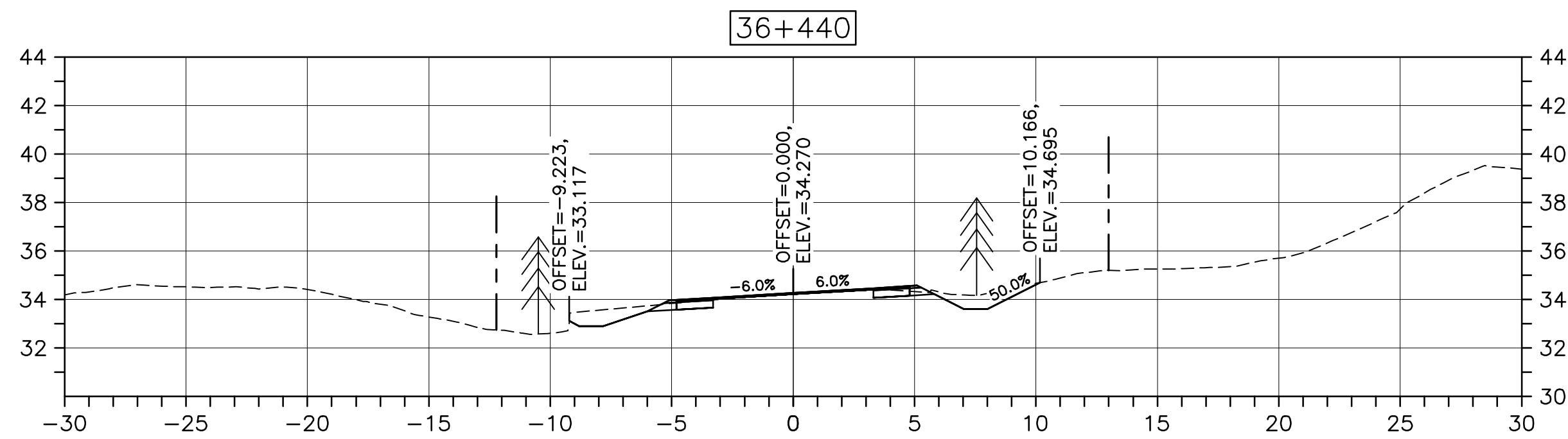
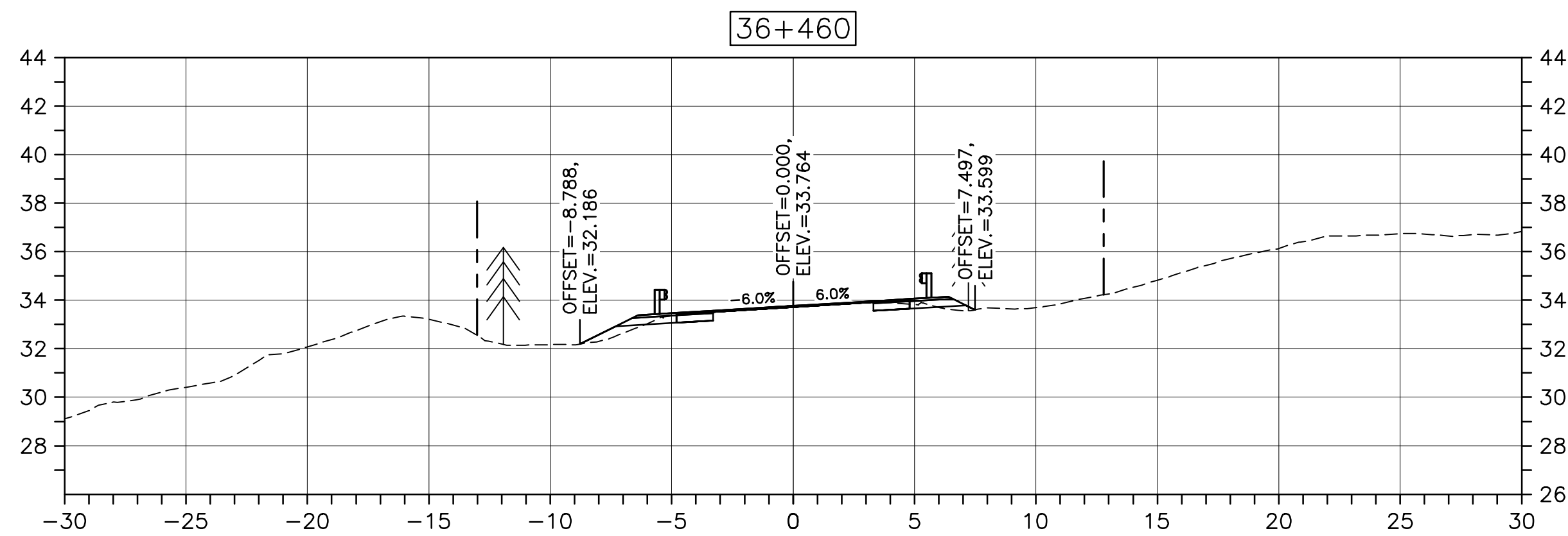
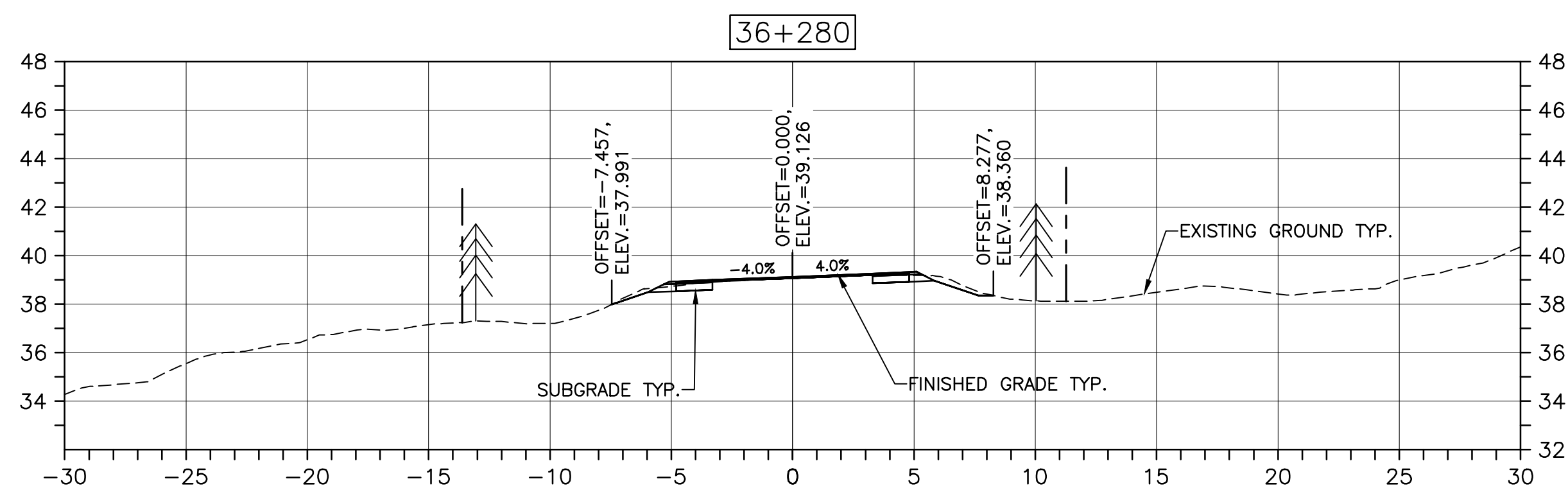
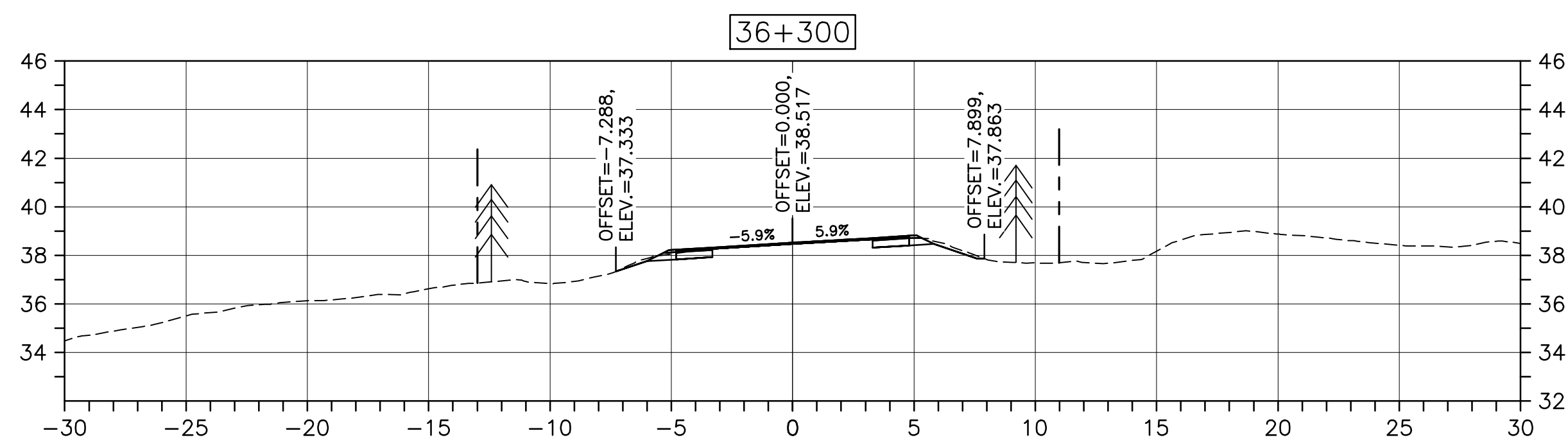
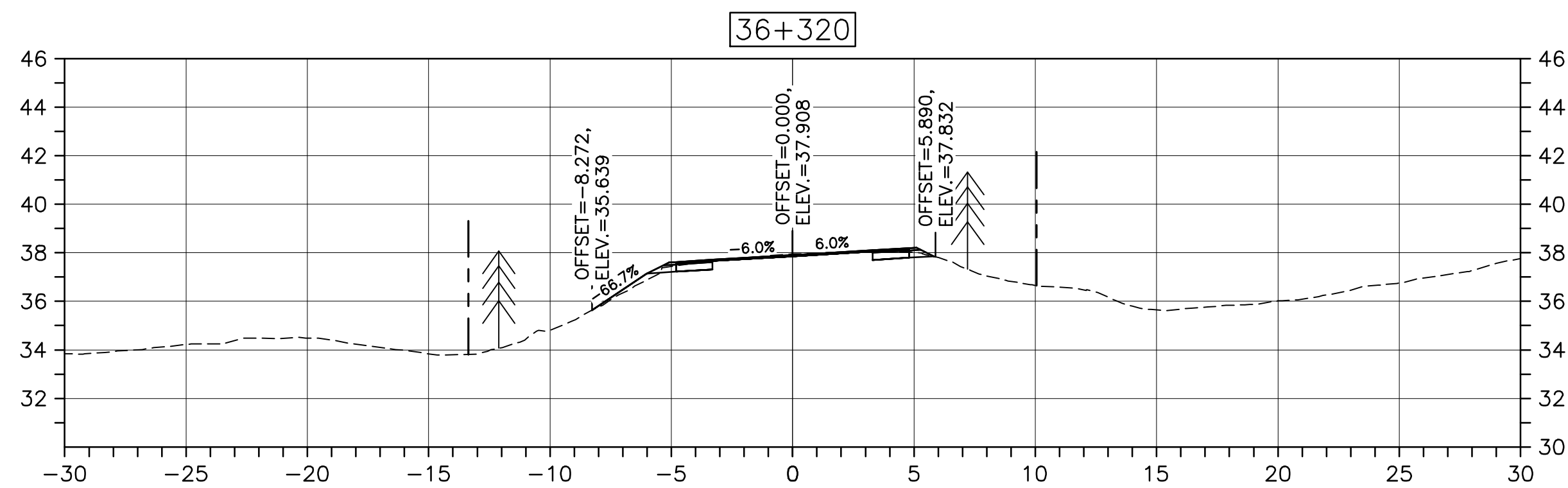
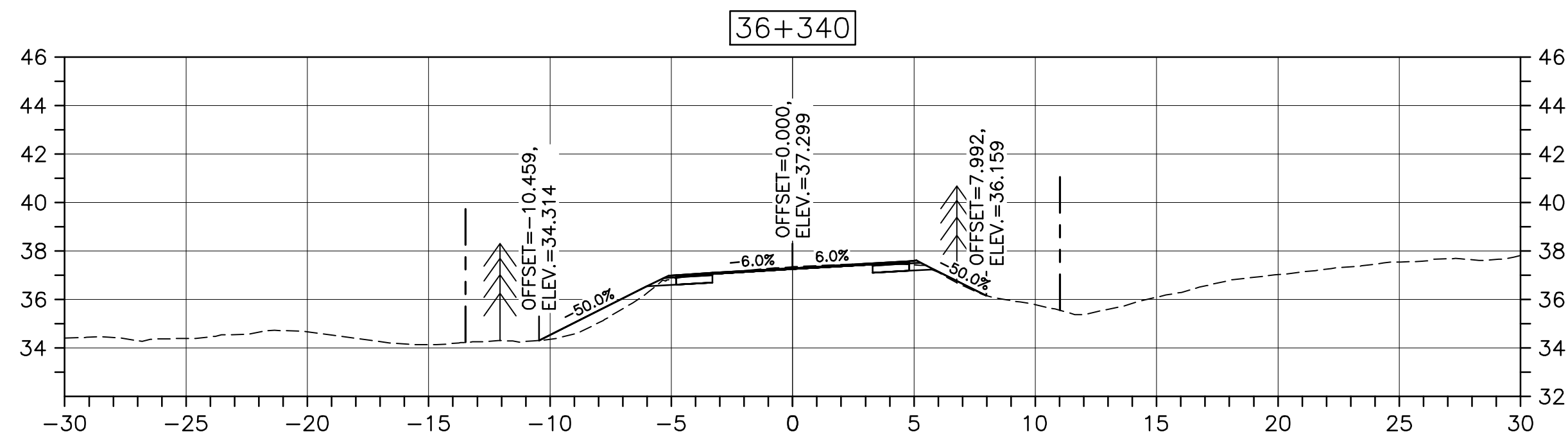
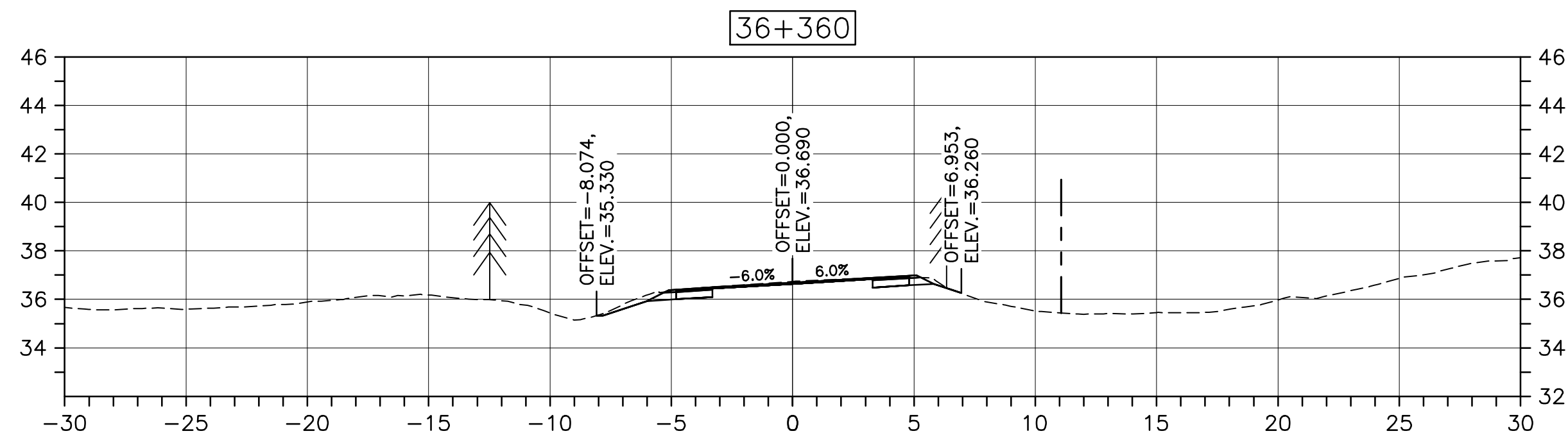
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C-58

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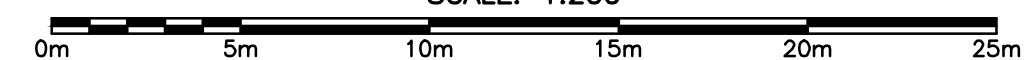
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PWGSC A1 (2004)

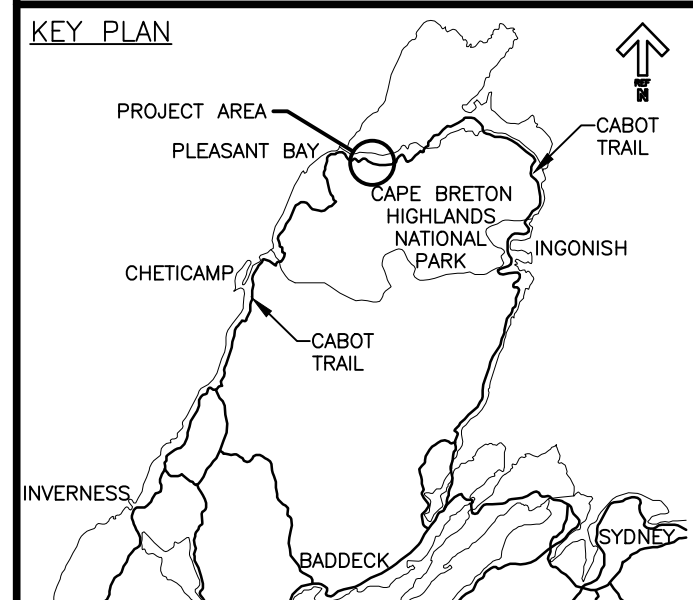


CROSS SECTIONS

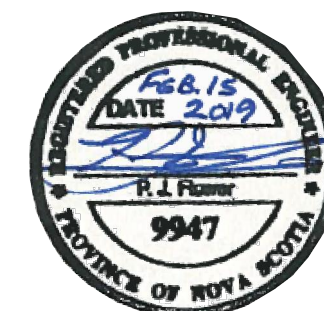
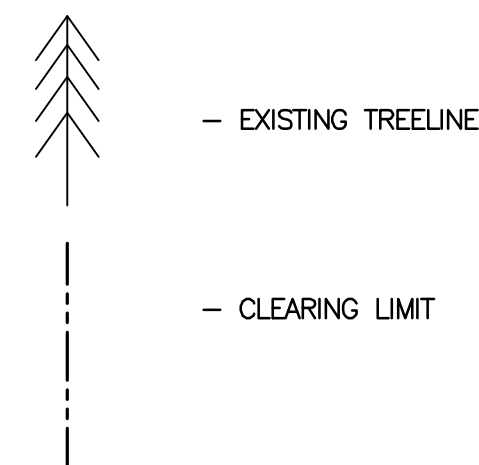
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LEGEND:



0	ISSUED FOR TENDER	02/15 2019
revisions		date

project projet

**CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessin

DESIGN SECTIONS

designed DSC	conçu
date MAY. 31, 2018	
drawn JLD/CCP	dessiné
date MAY. 31, 2018	
approved RMB	approuvé
date FEB. 15, 2019	

Tender Soumission
PCA Project Manager Administrateur de projets PCA

project number no. du projet

1114

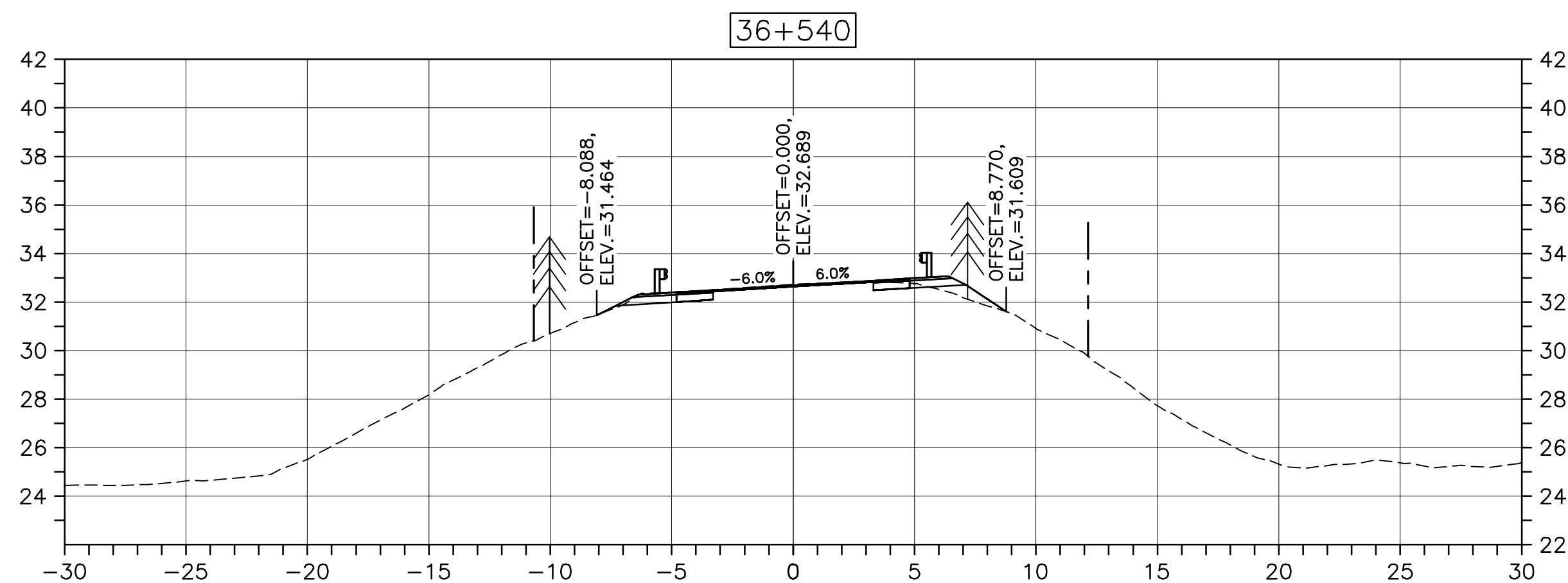
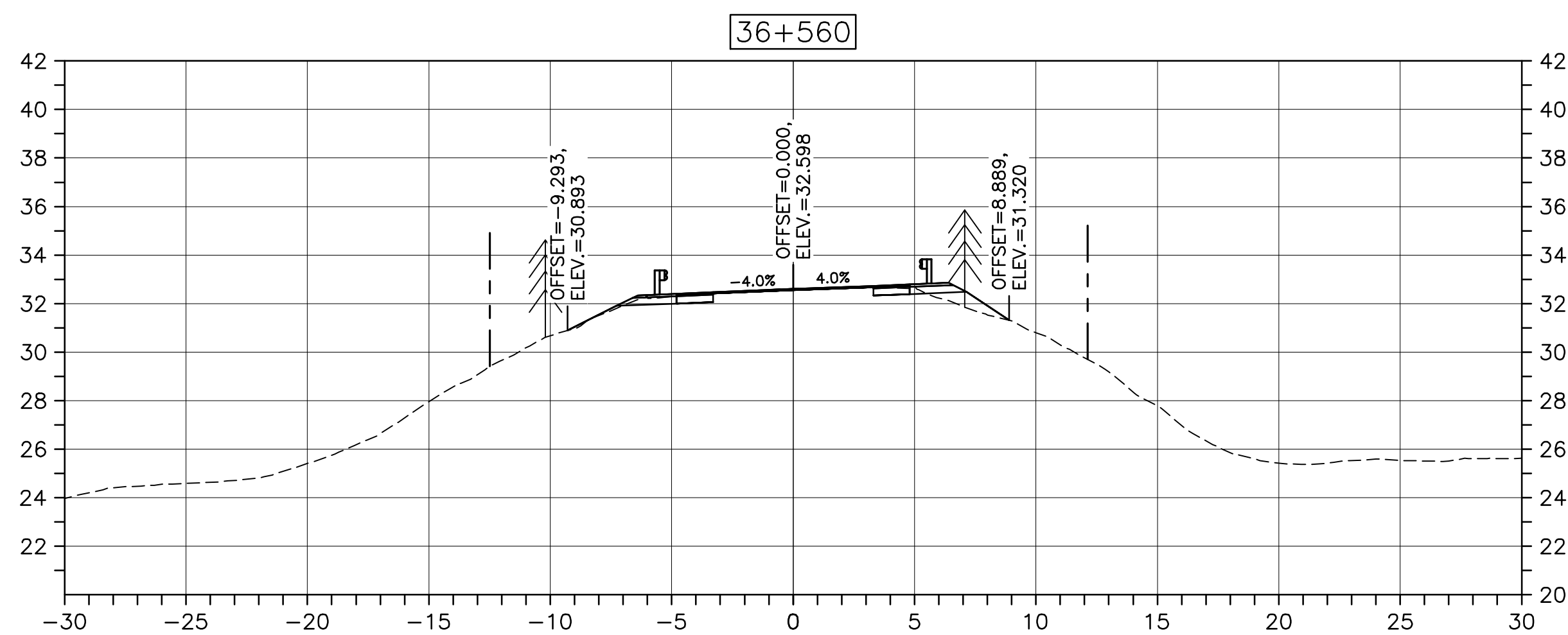
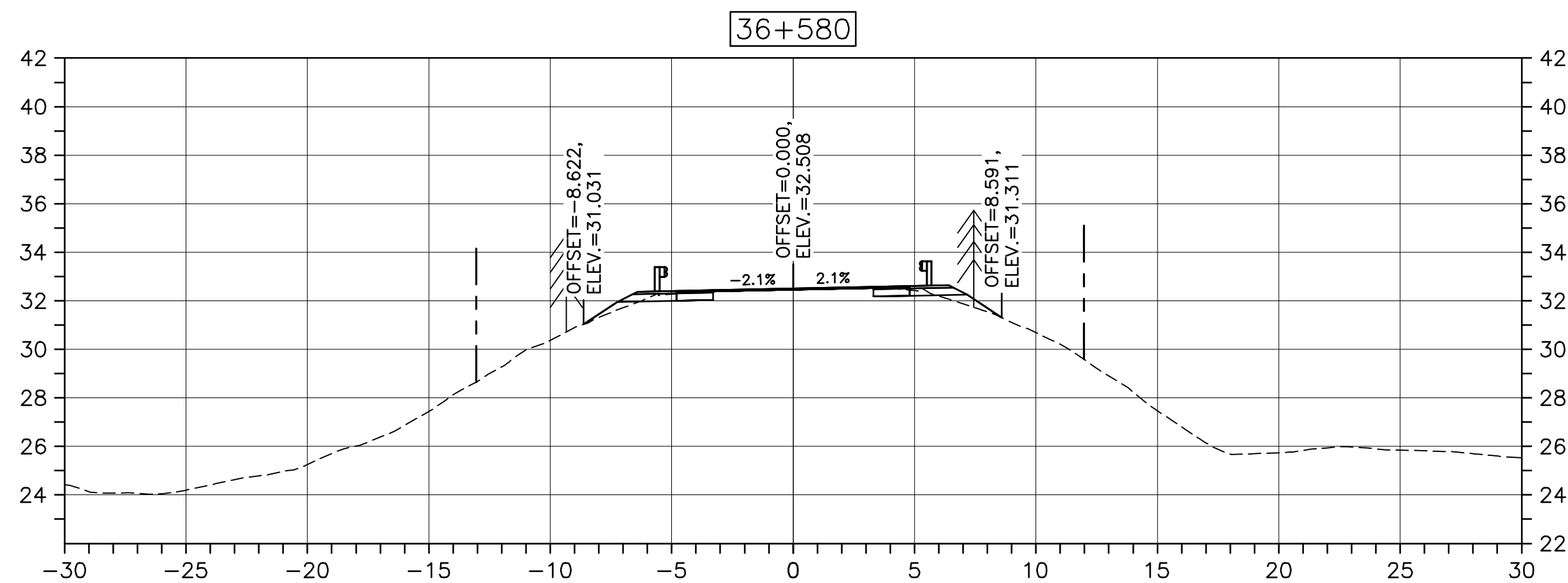
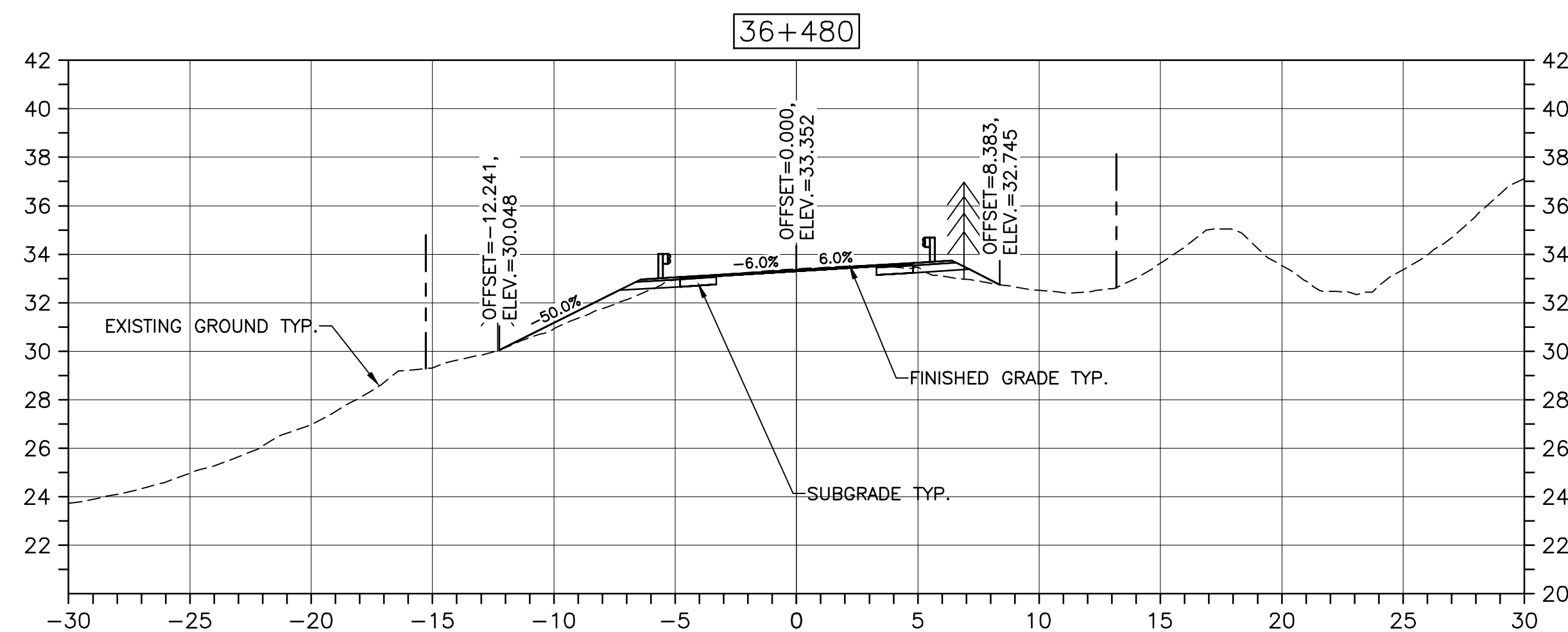
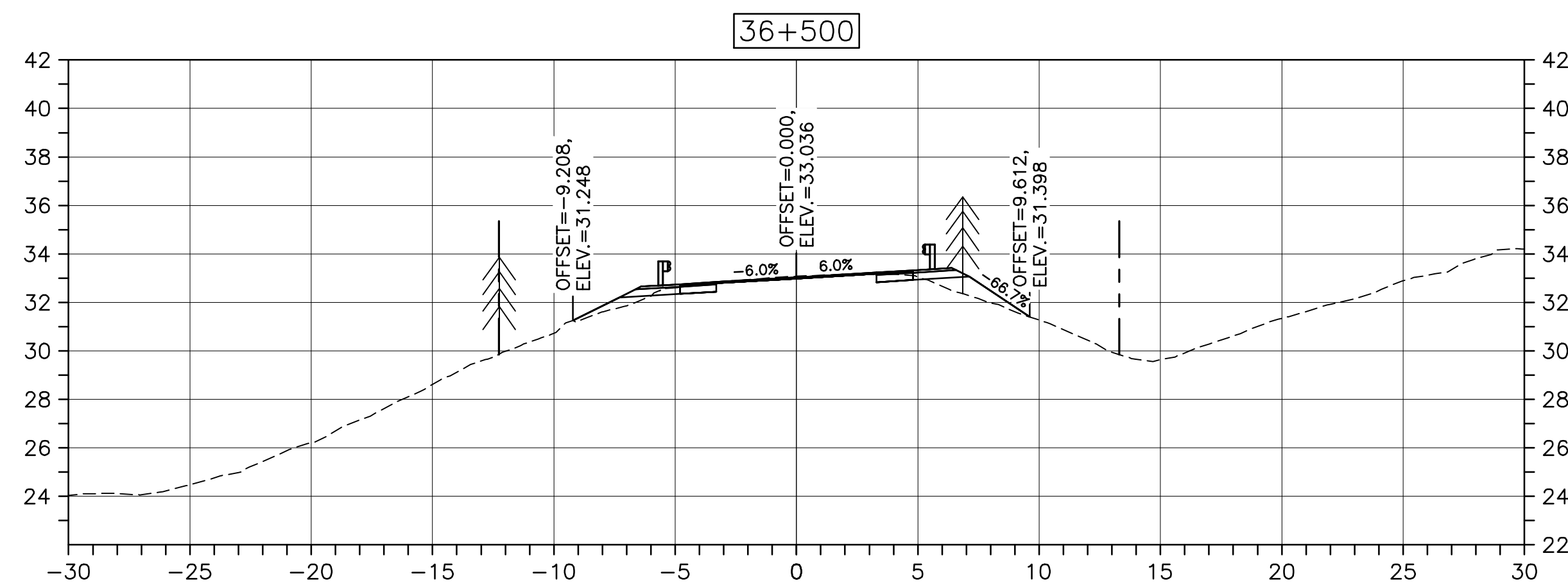
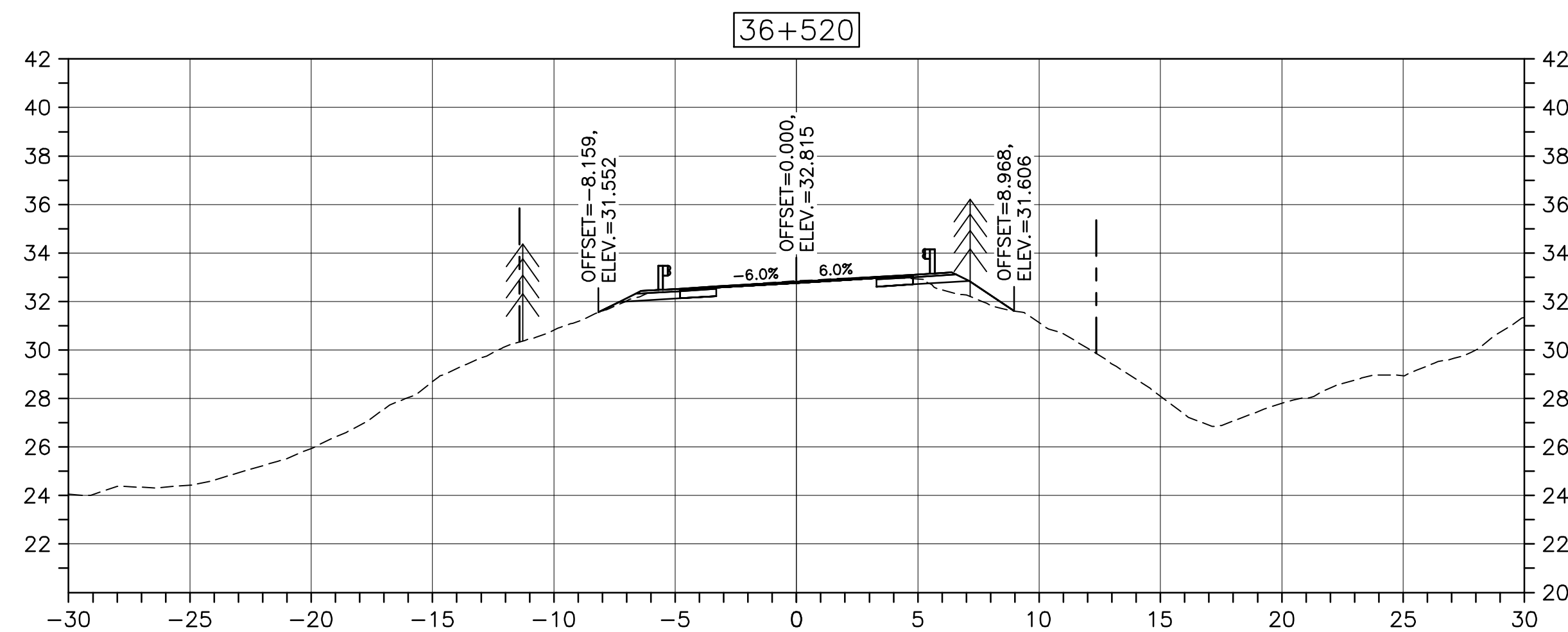
drawing no. no. du dessin

C-59

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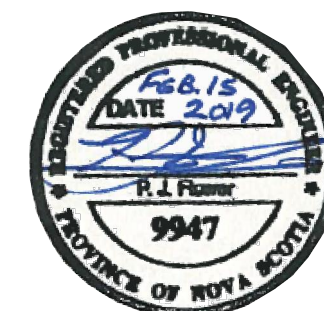
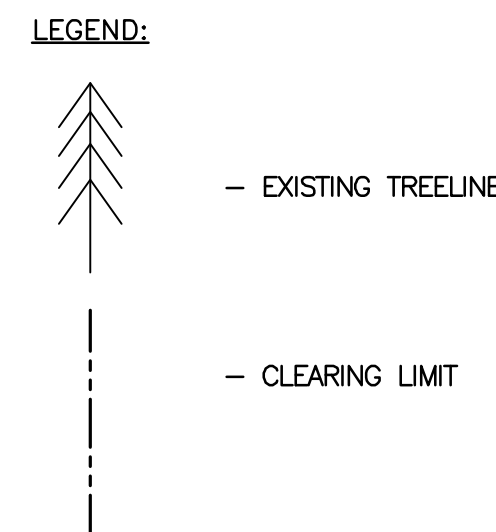
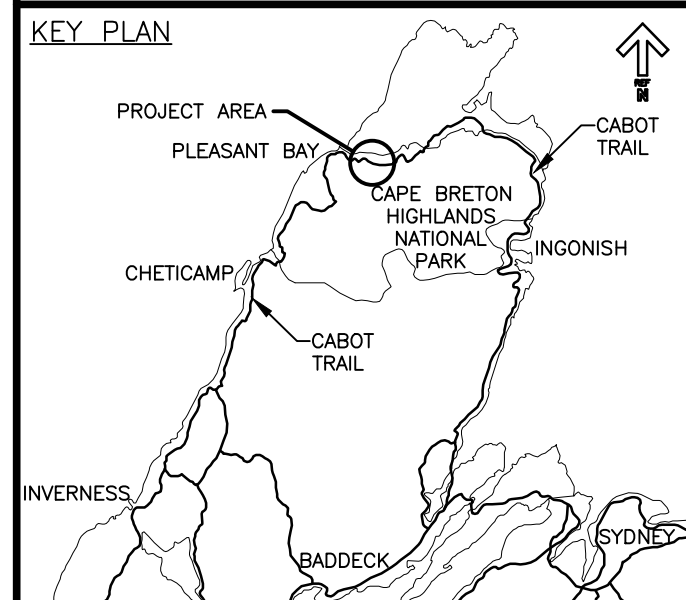
PWGSC A1 (2004)



CROSS SECTIONS
SCALE: 1:200



Parks Canada



0	ISSUED FOR TENDER	02/15 2019
revisions		date

project

CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing

DESIGN SECTIONS

designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	

Tender
PCA Project Manager

project number

1114

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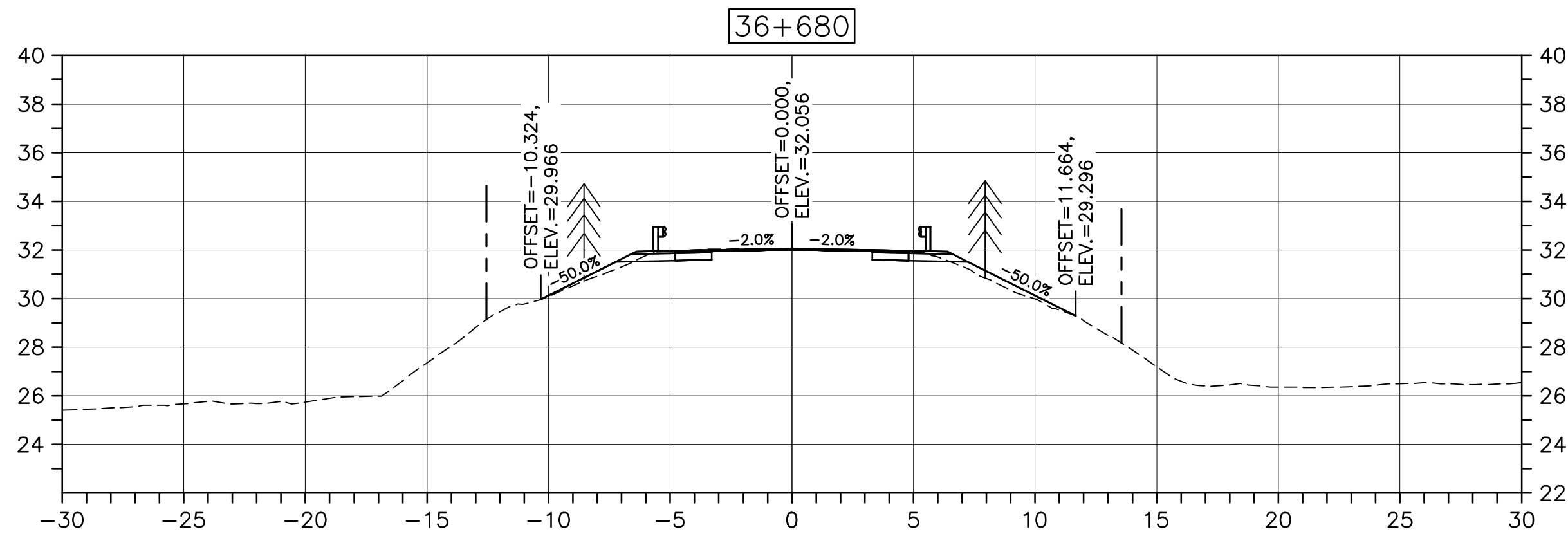
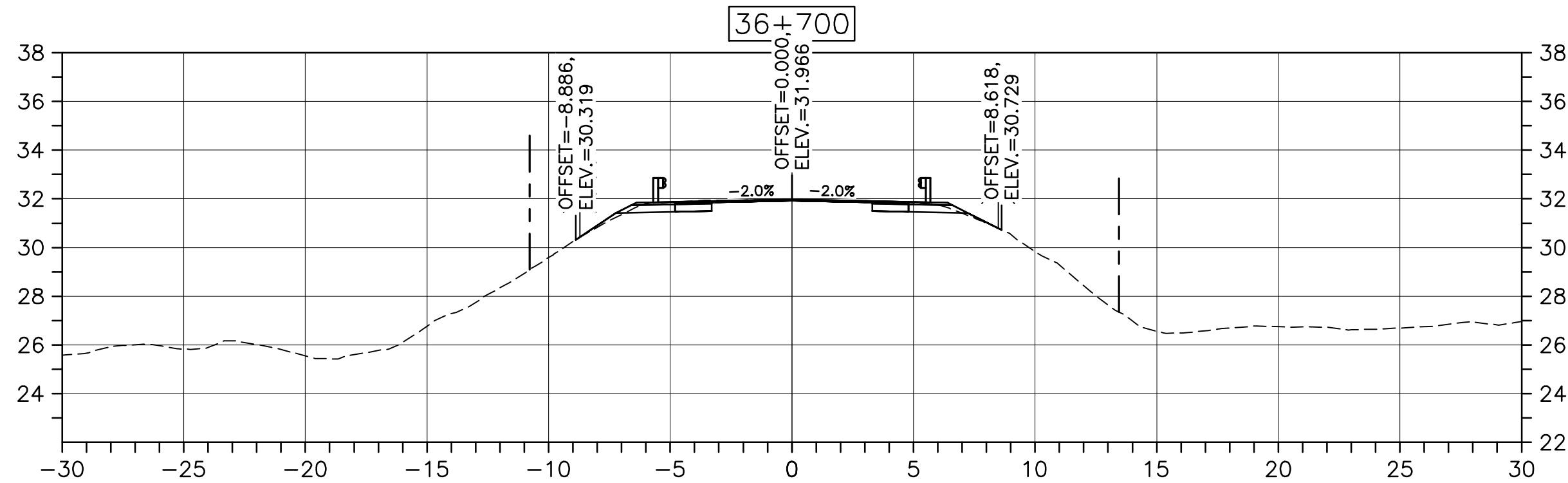
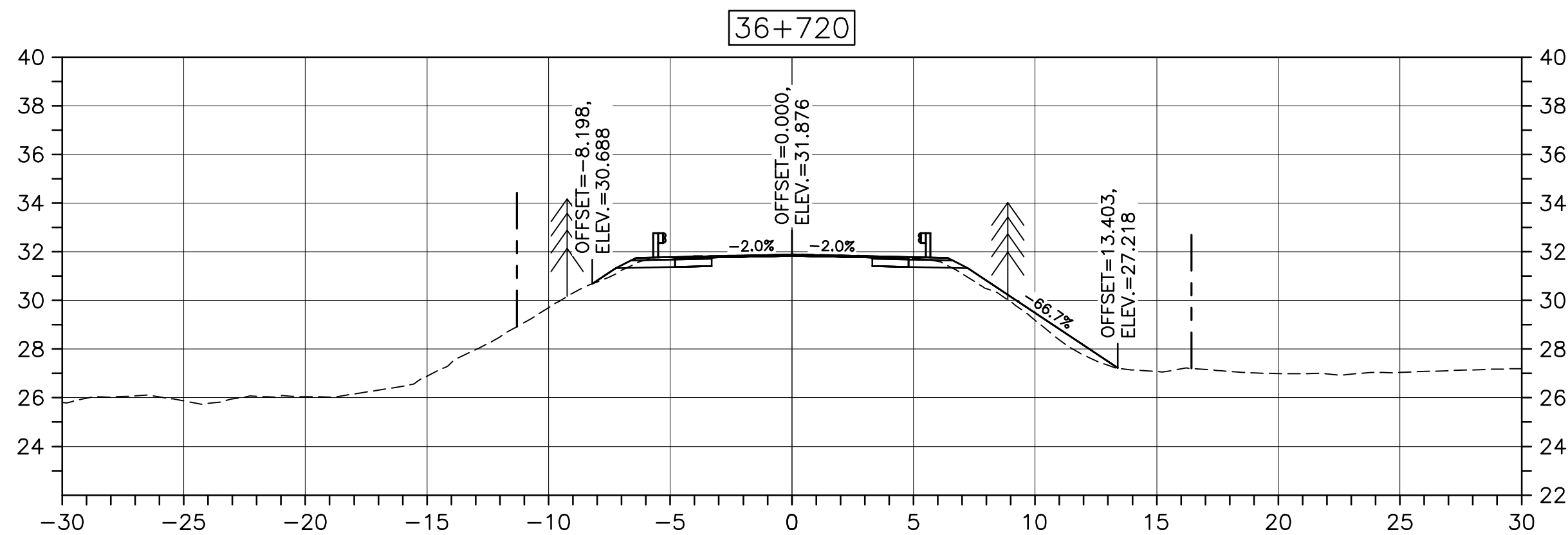
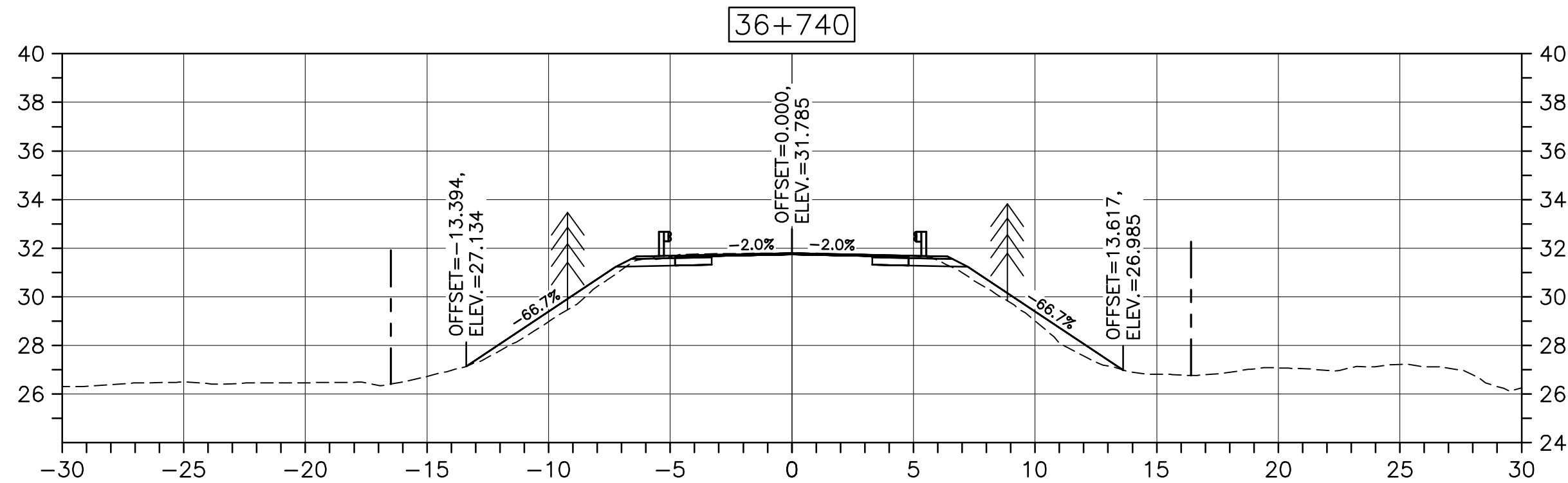
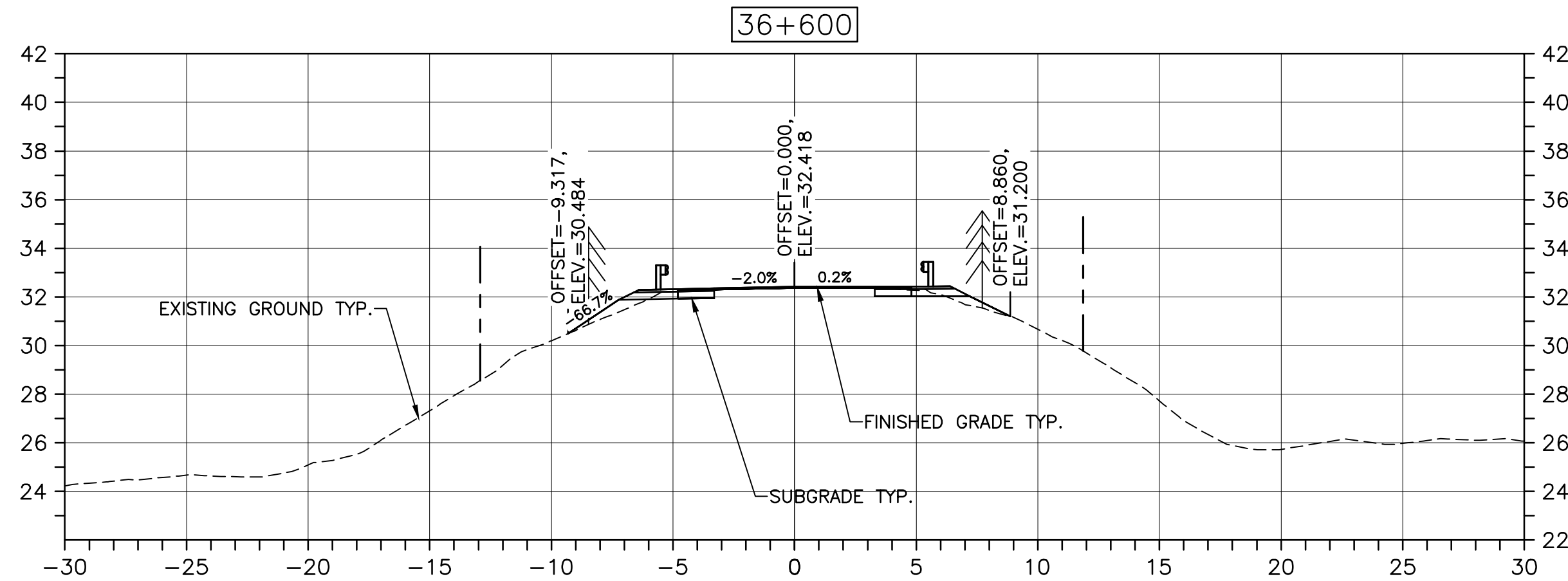
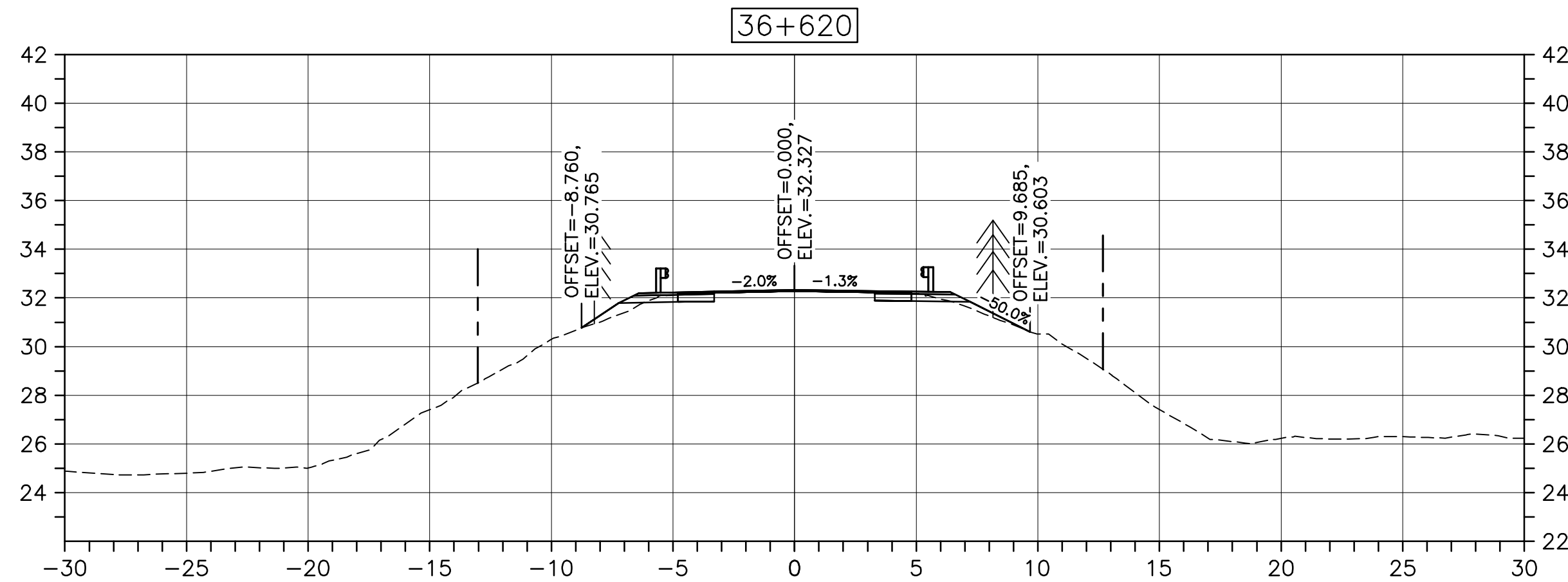
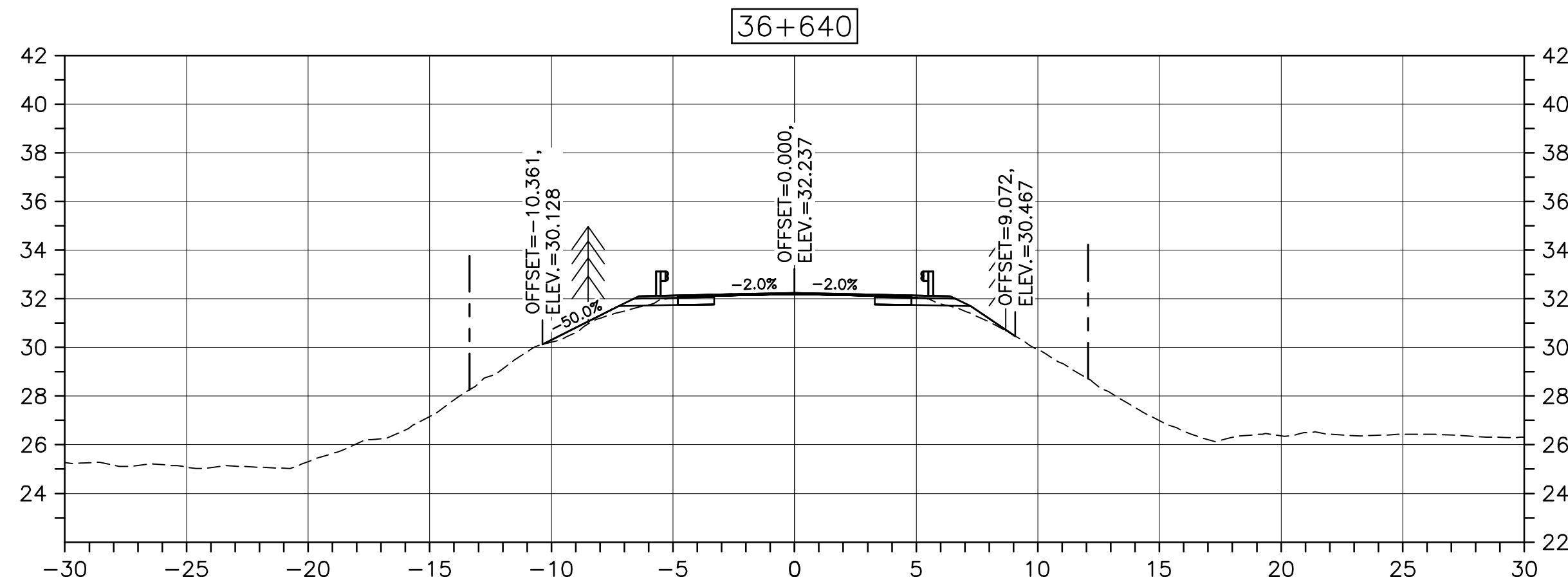
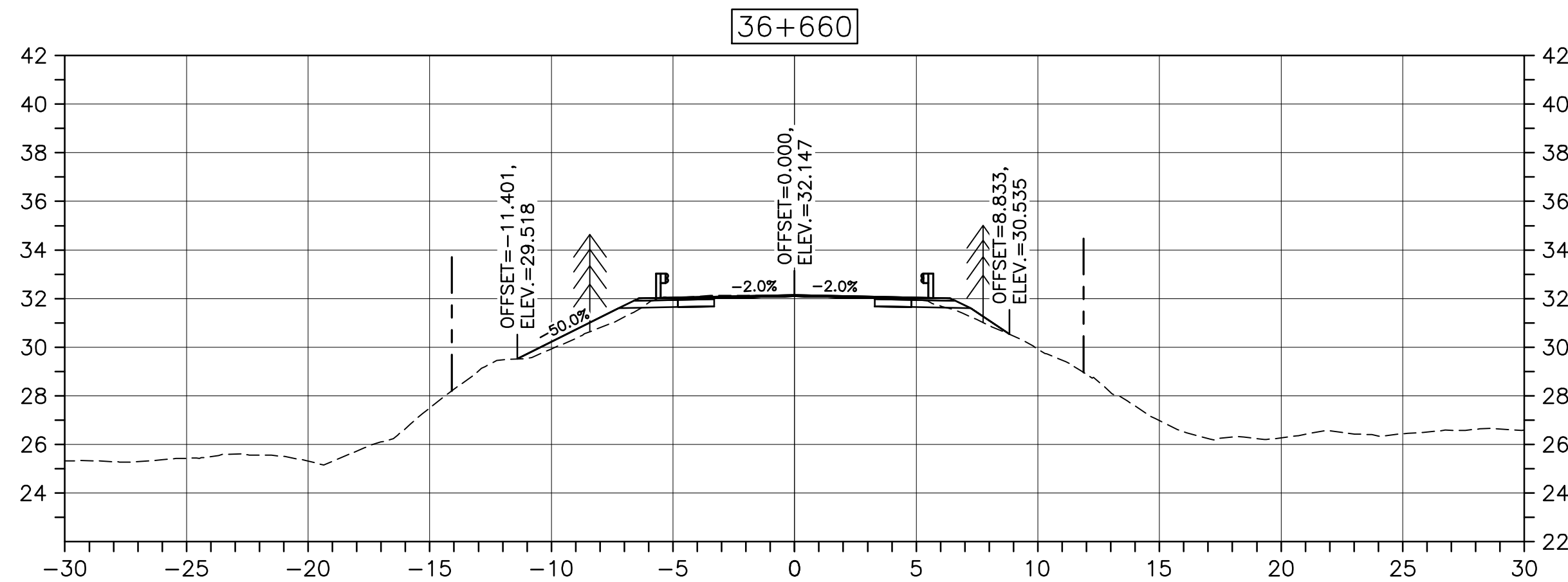
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C-60

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PWOSC A1 (2004)



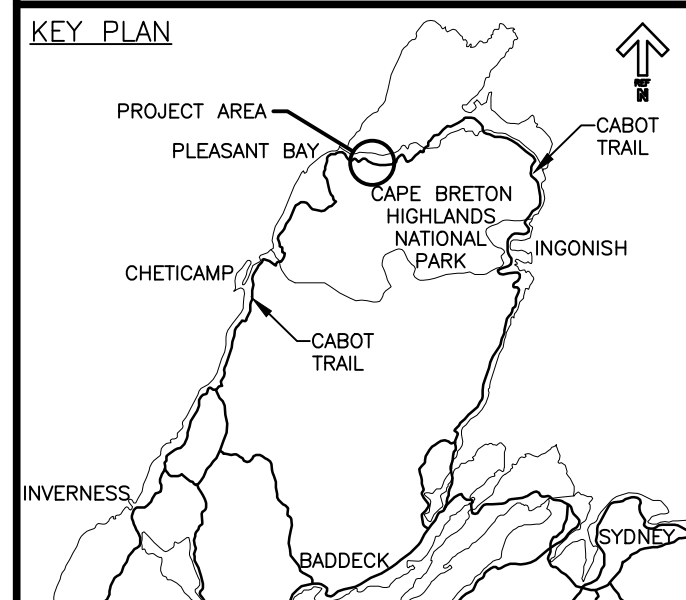
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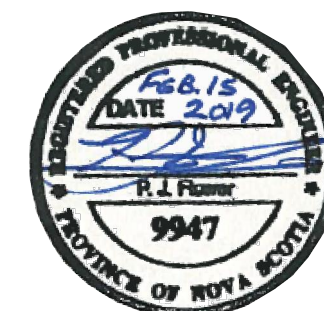
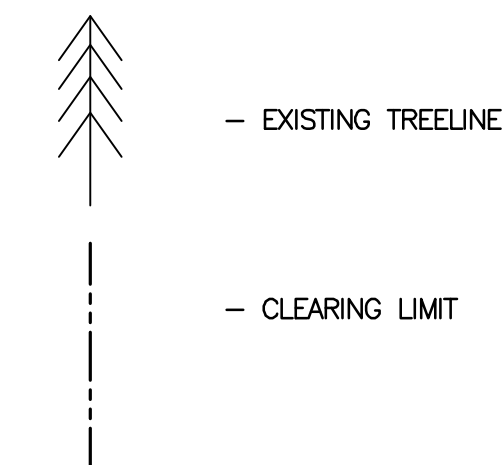


Parks Canada

KEY PLAN



LEGEND:



0	ISSUED FOR TENDER	02/15/2019
revisions		date

project	project
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CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing	dessin
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DESIGN SECTIONS

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Tender	Soumission
PCA Project Manager	Administrateur de projets PCA

project number	no. du projet
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1114

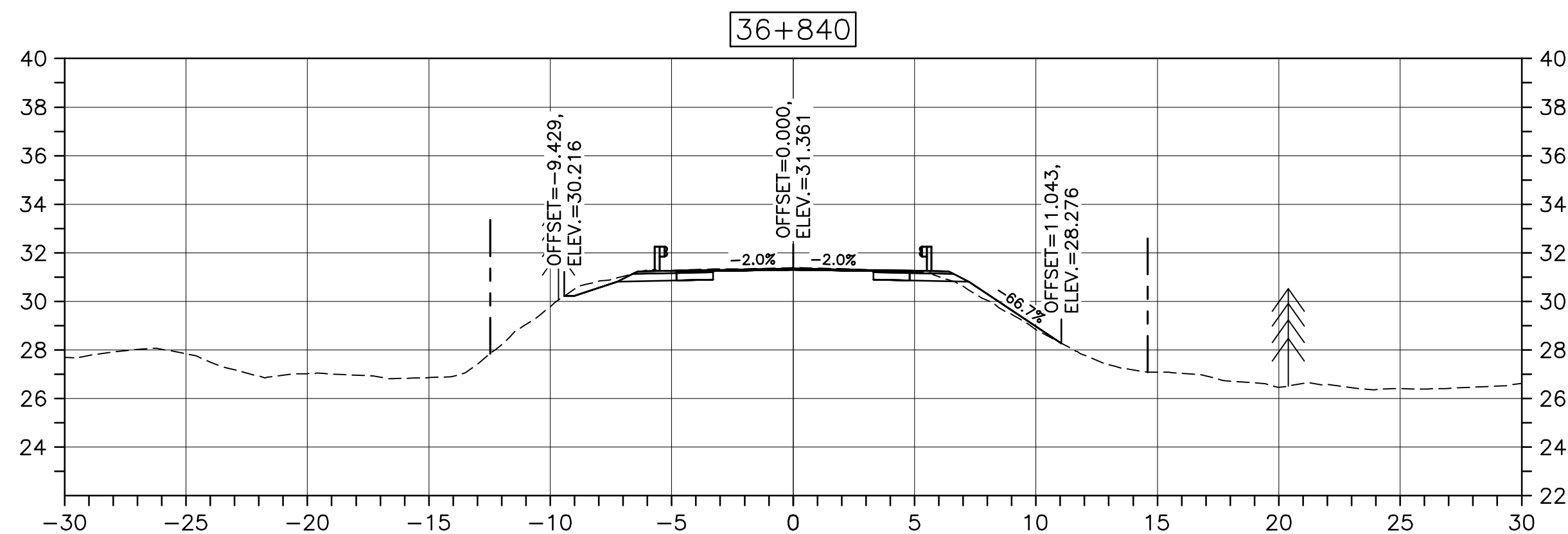
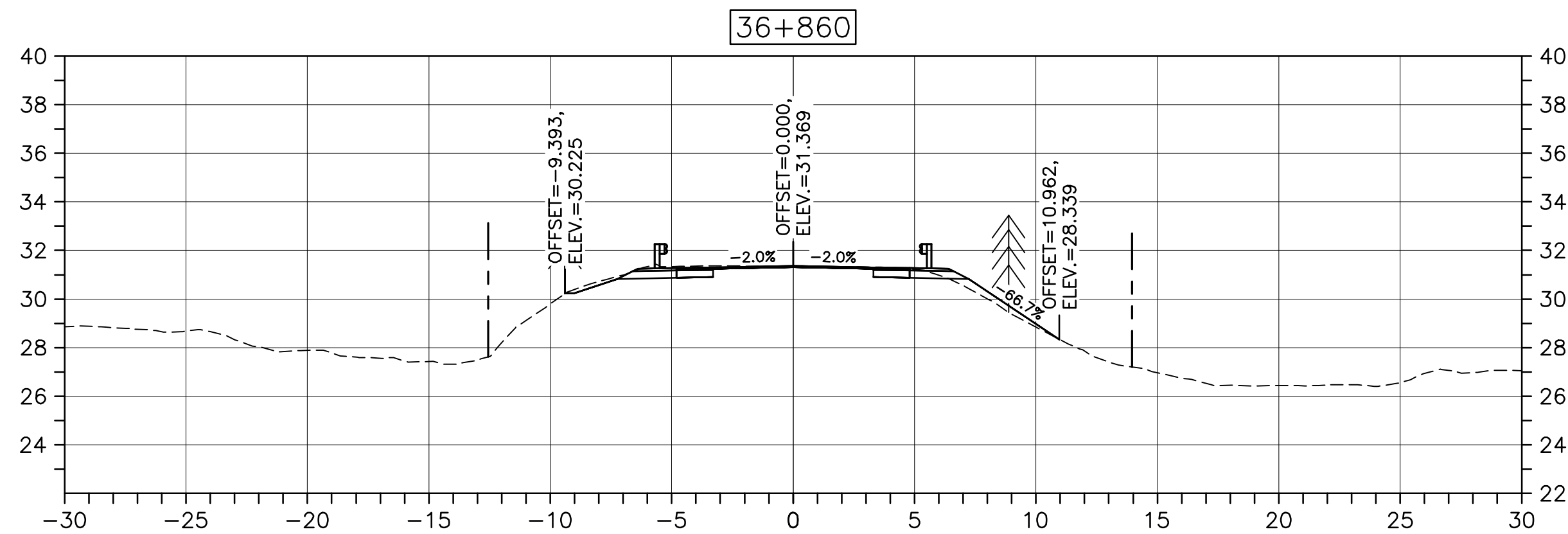
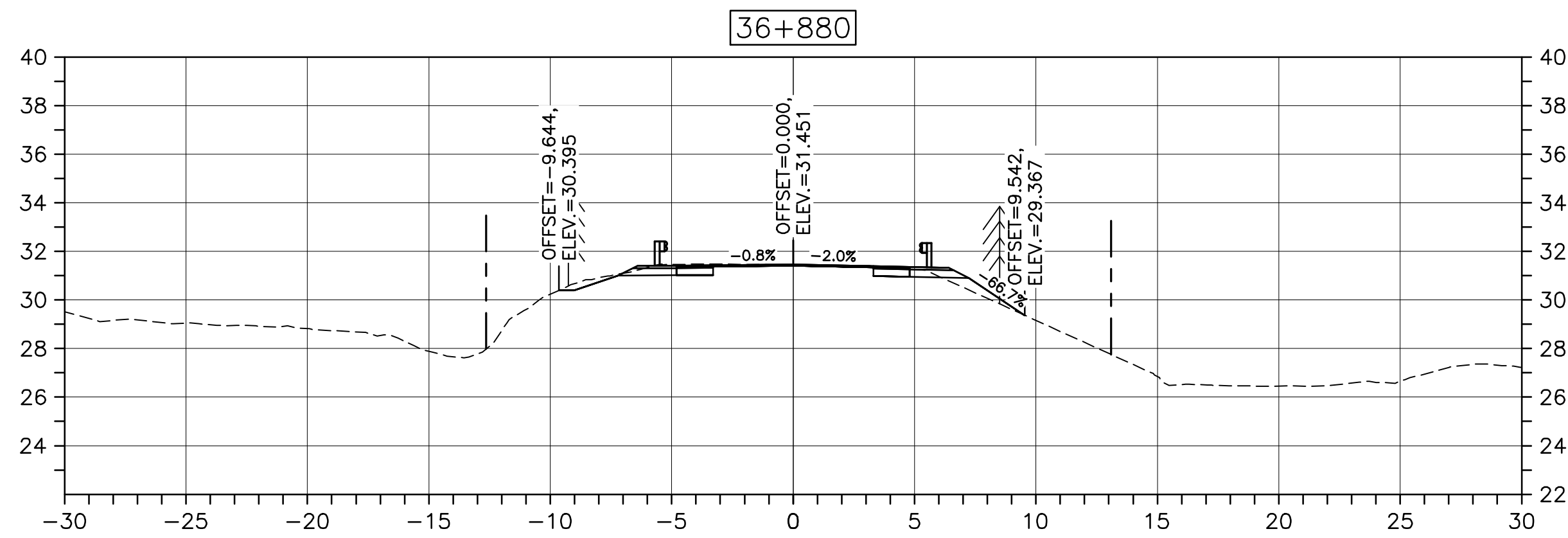
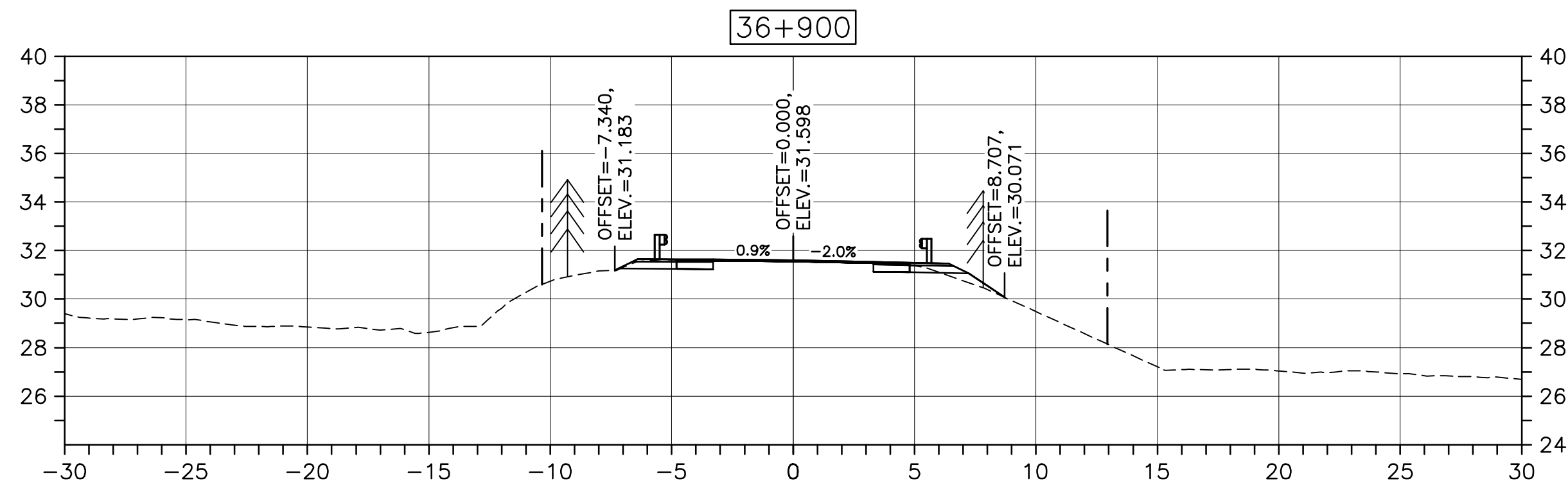
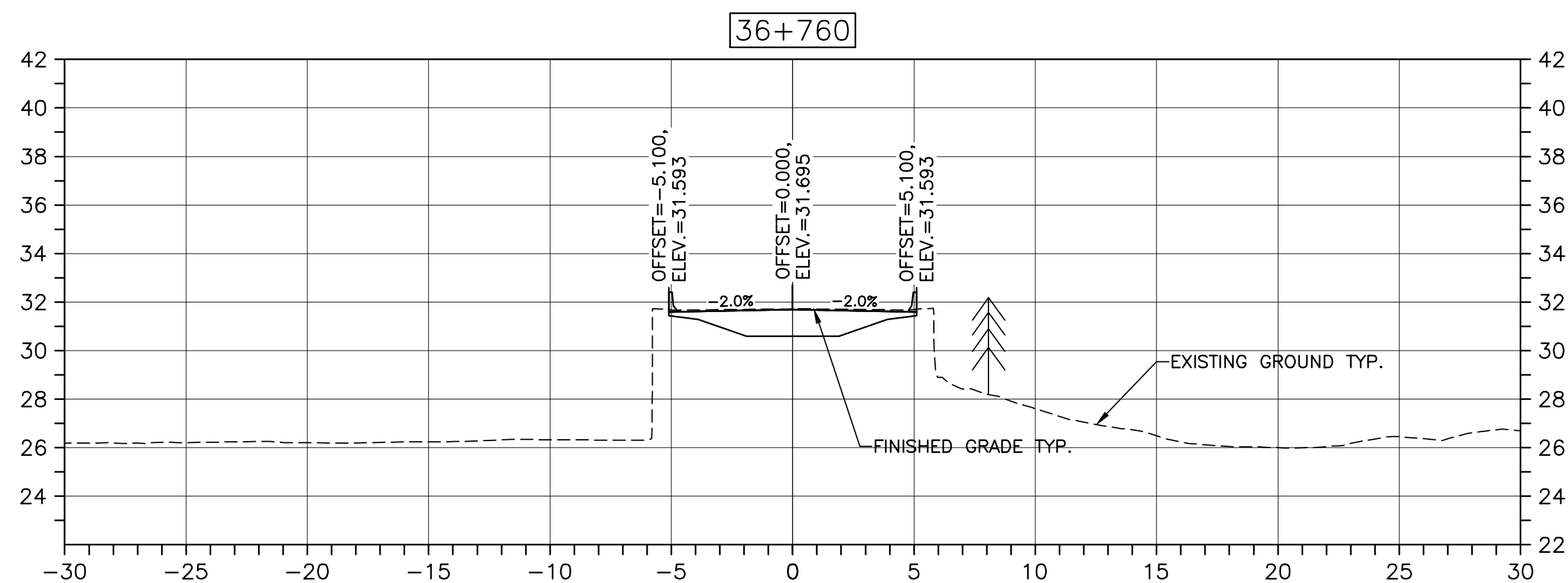
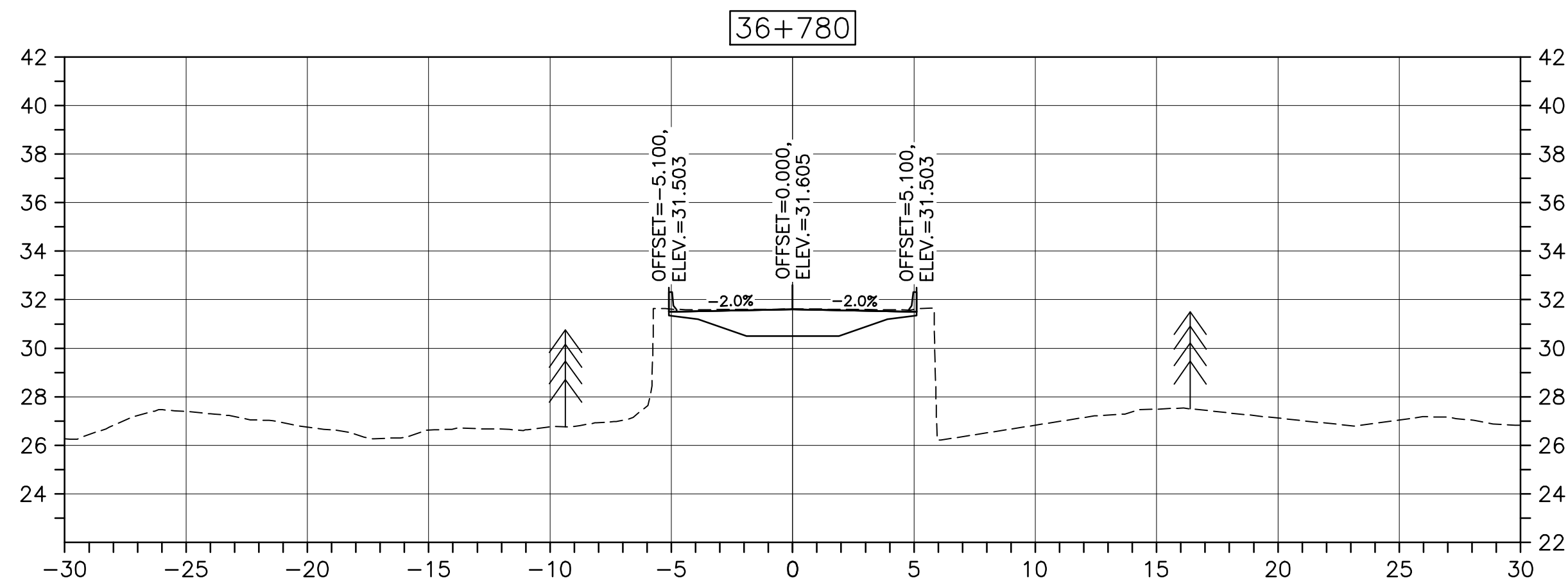
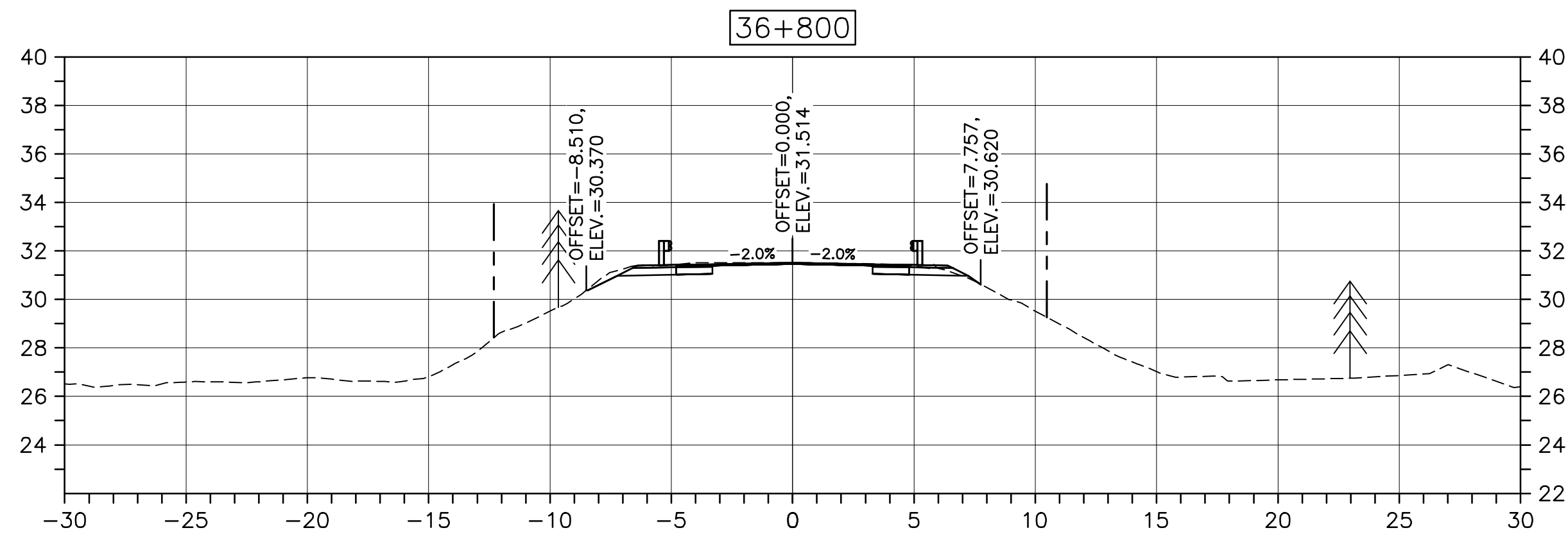
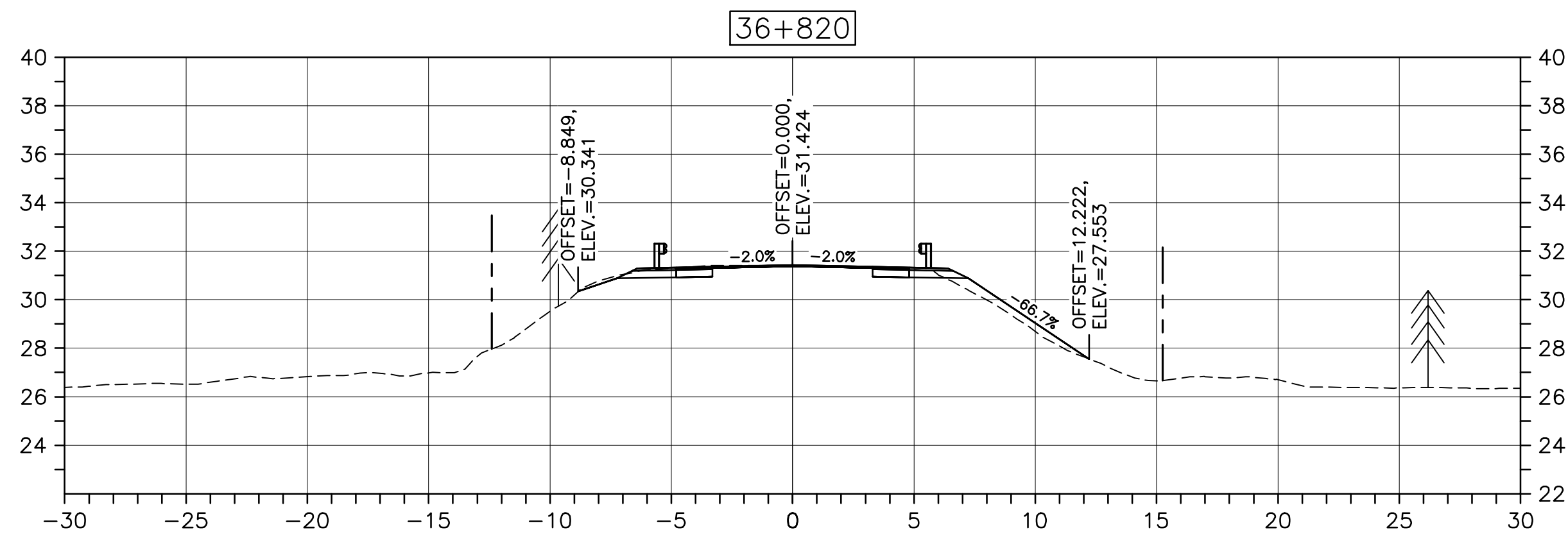
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C-61

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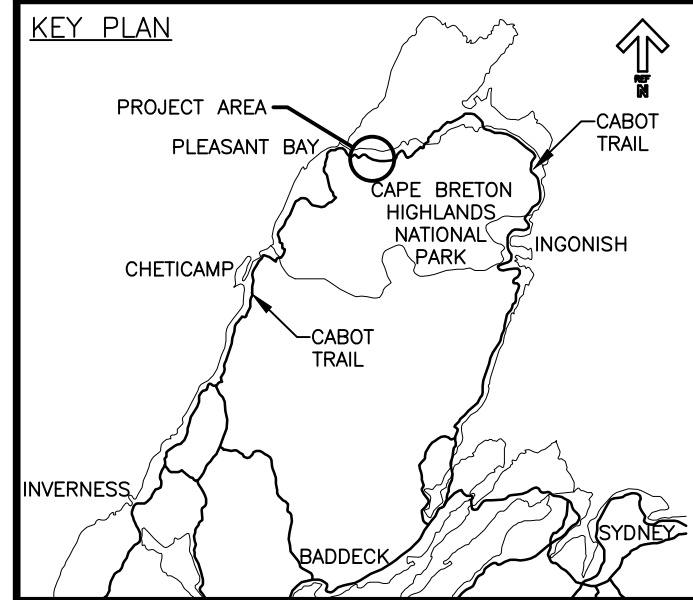
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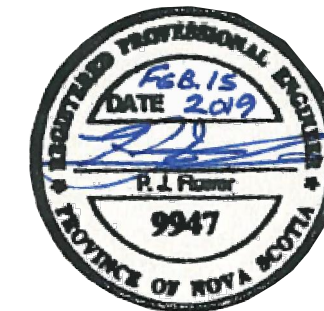
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0m 5m 10m 15m 20m 25m



Parks Canada



LEGEND:
- EXISTING TREELINE
- CLEARING LIMIT



0	ISSUED FOR TENDER	02/15 2019
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project

CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing

DESIGN SECTIONS

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Tender
PCA Project Manager

Soumission
Administrateur de projets PCA

project number

1114

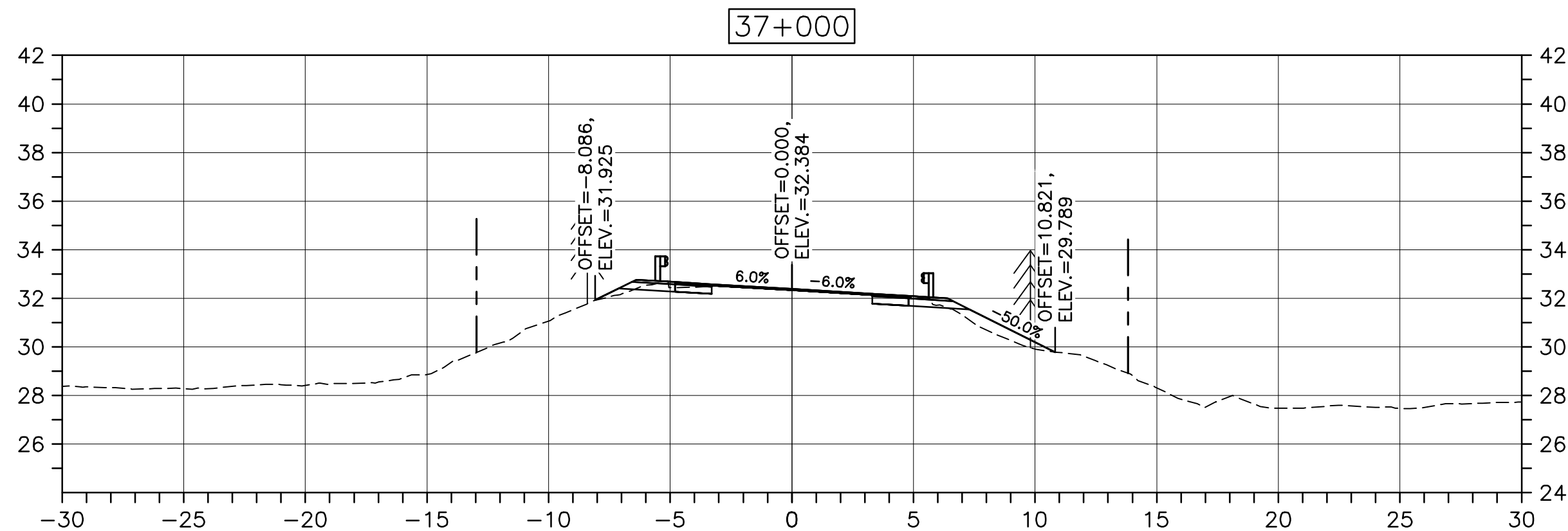
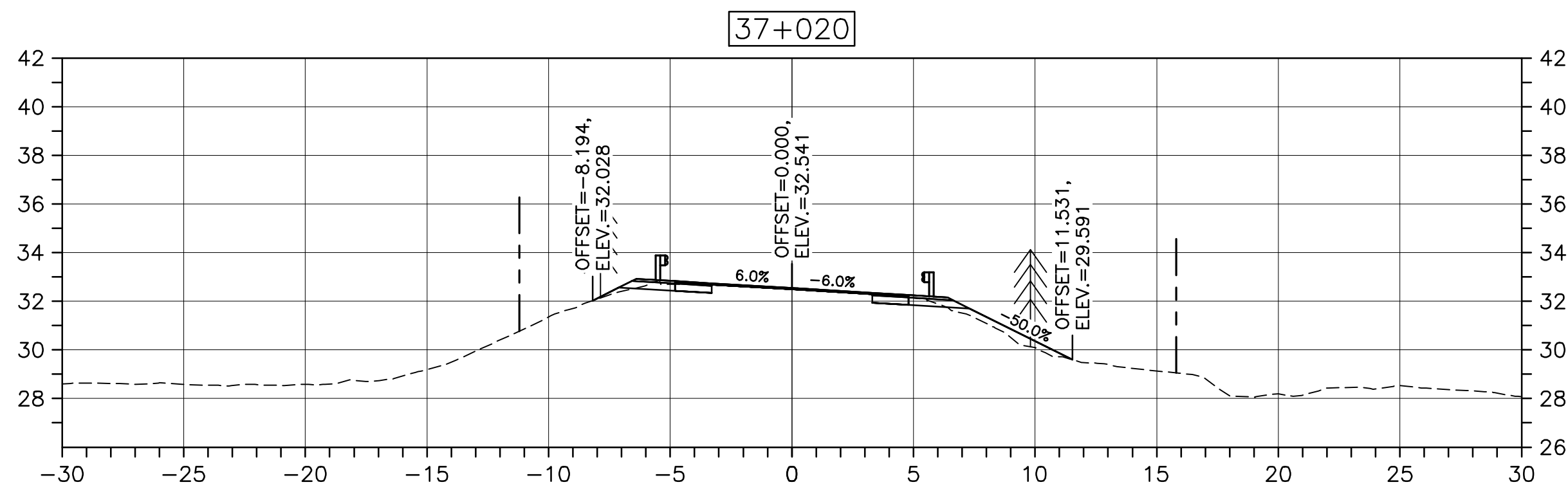
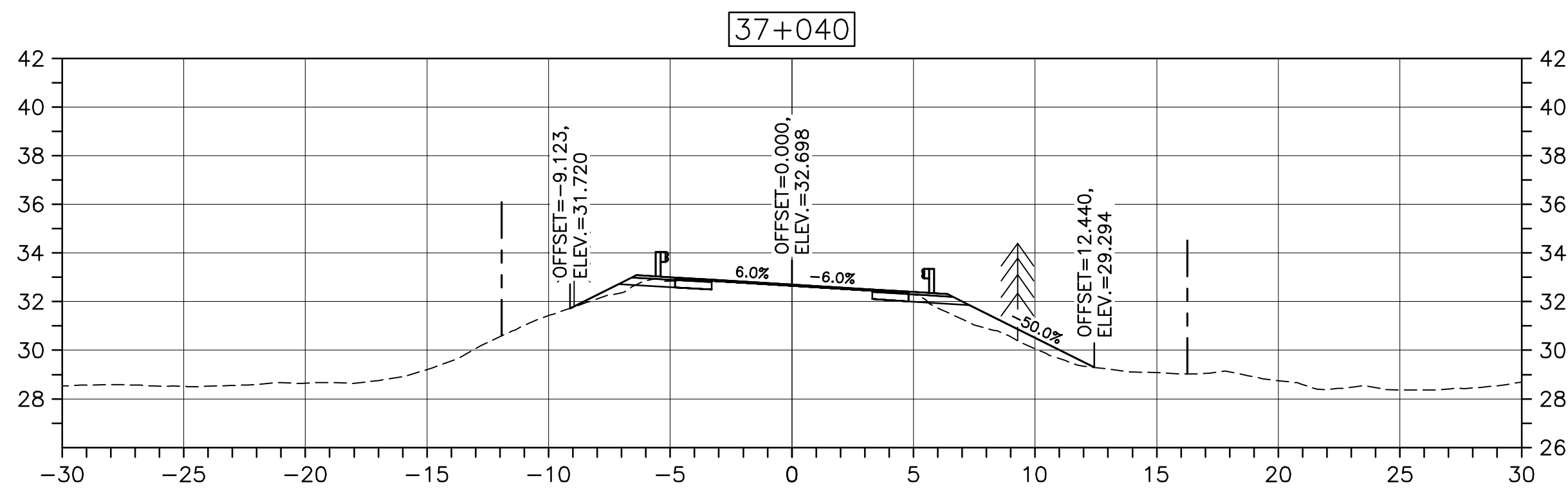
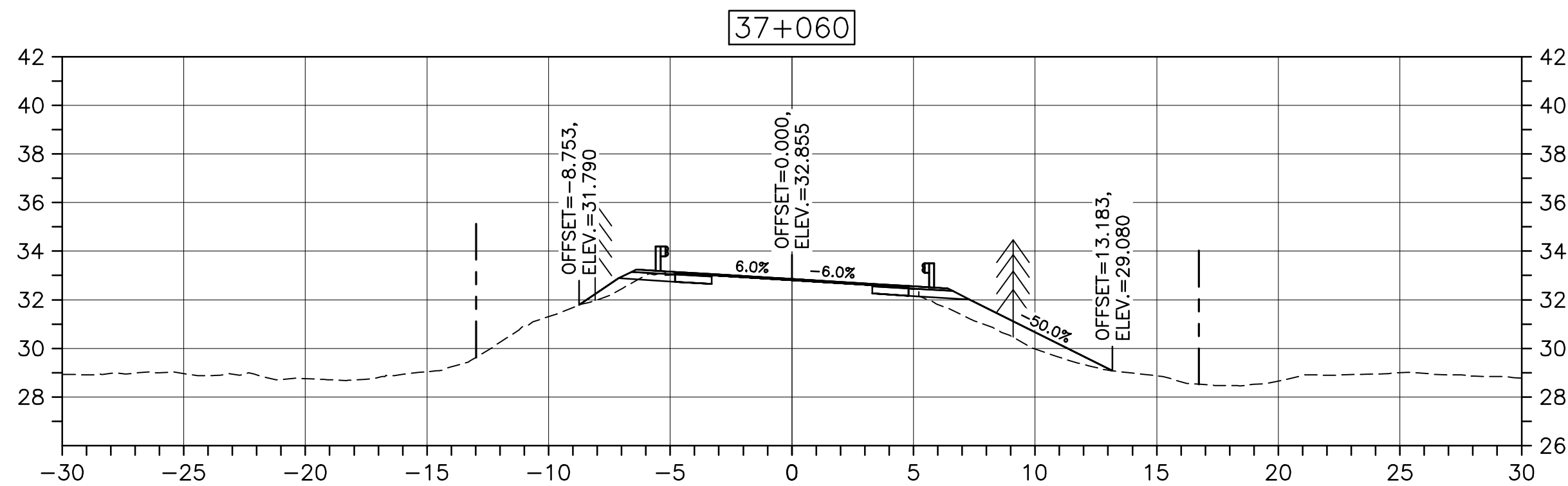
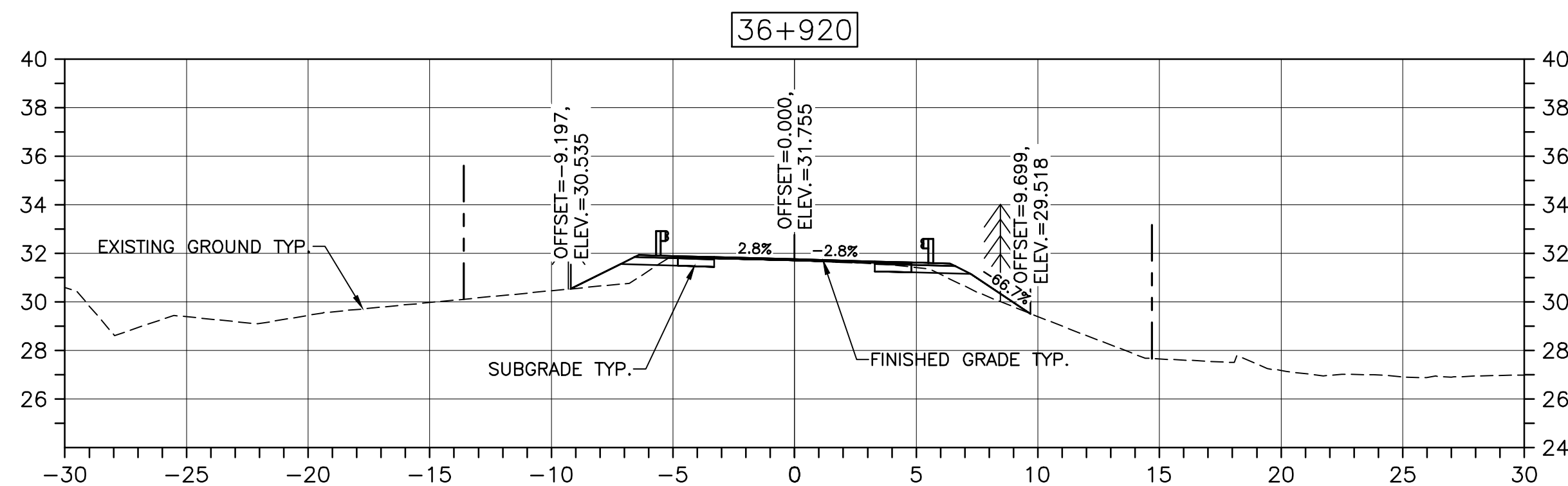
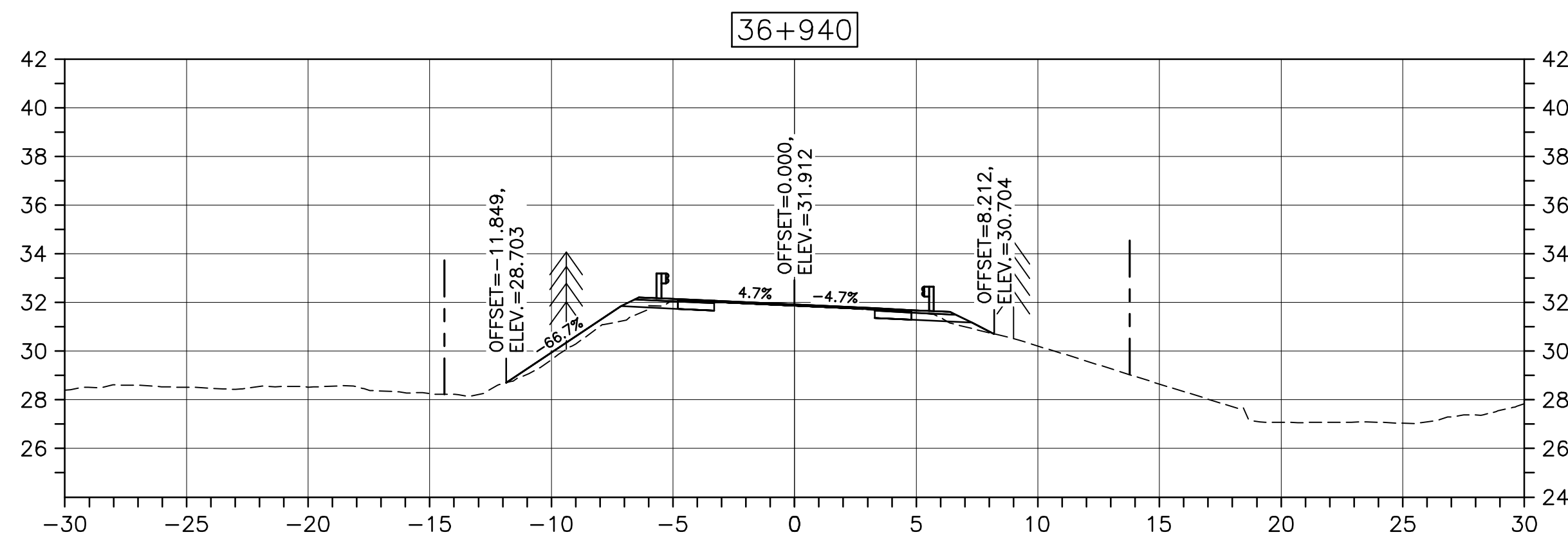
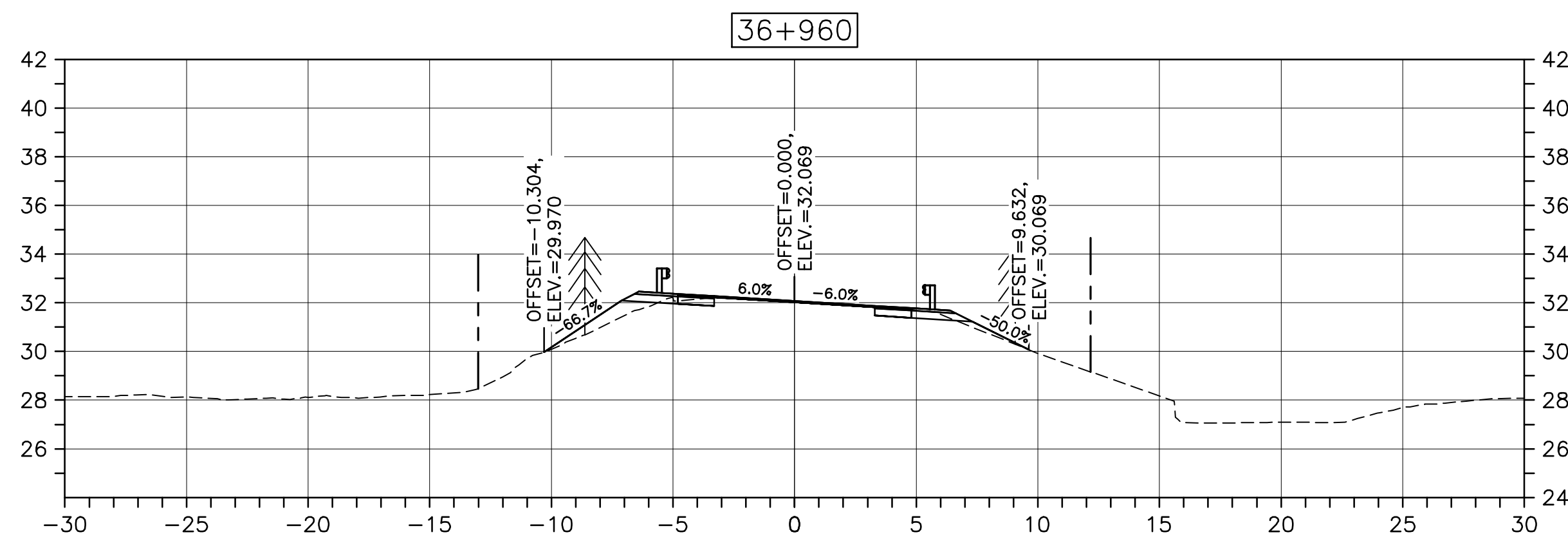
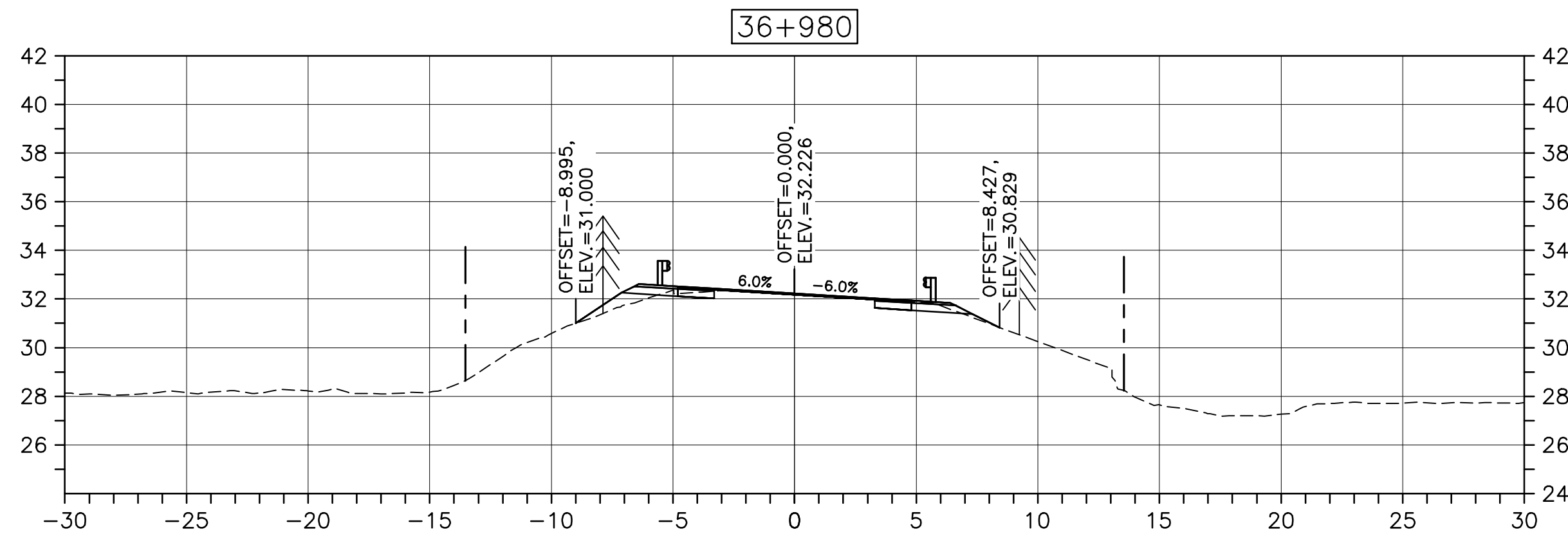
drawing no.

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PWOSC A1 (2004)

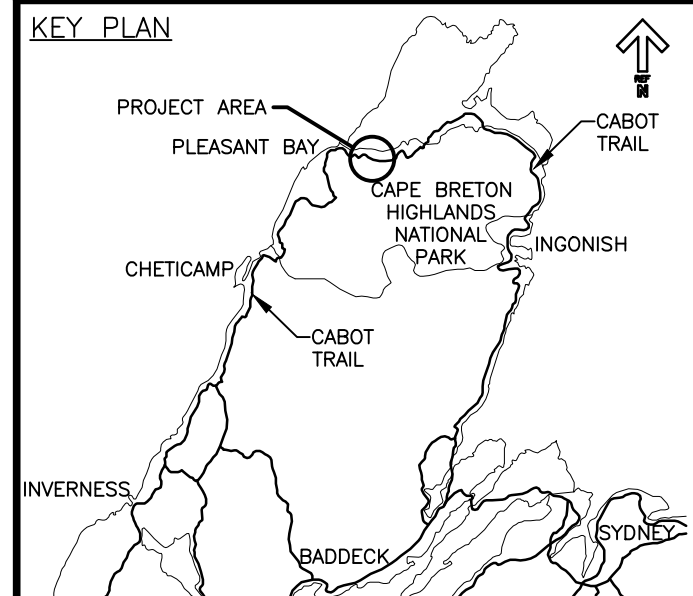


CROSS SECTIONS

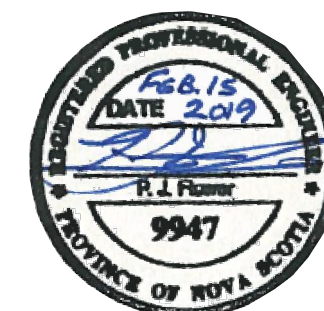
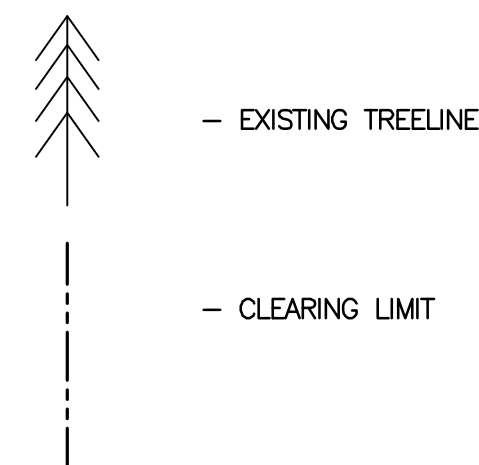
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Parks Canada



LEGEND:



0	ISSUED FOR TENDER	02/15 2019
revisions		date

project CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing dessin

DESIGN SECTIONS

designed DSC	conçu
date MAY. 31, 2018	
drawn JLD/CCP	dessiné
date MAY. 31, 2018	
approved RMB	approuvé
date FEB. 15, 2019	

Tender PCA Project Manager
Soumission Administrateur de projets PCA

project number no. du projet

1114

drawing no. no. du dessin

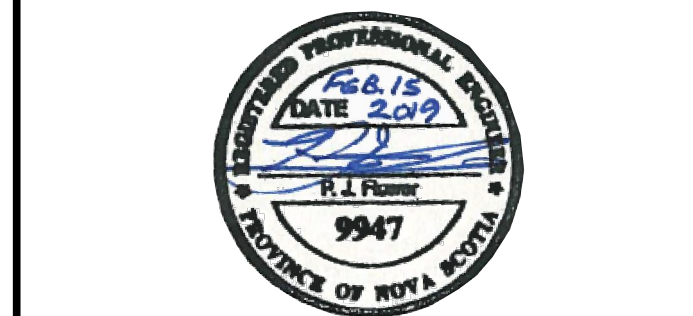
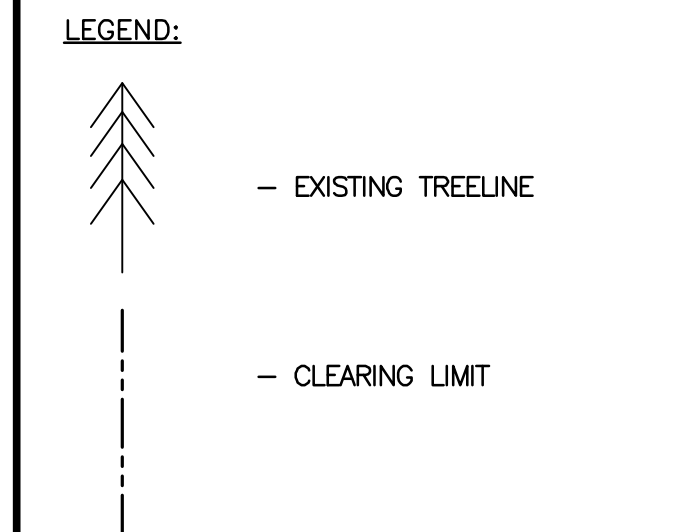
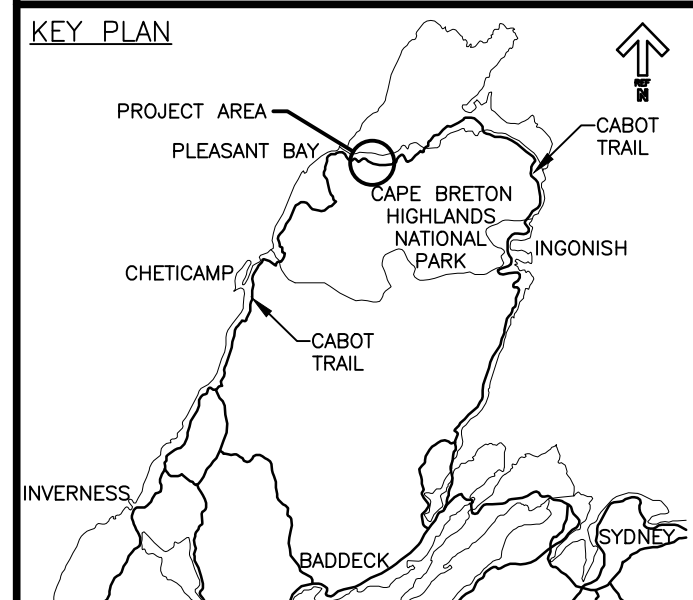
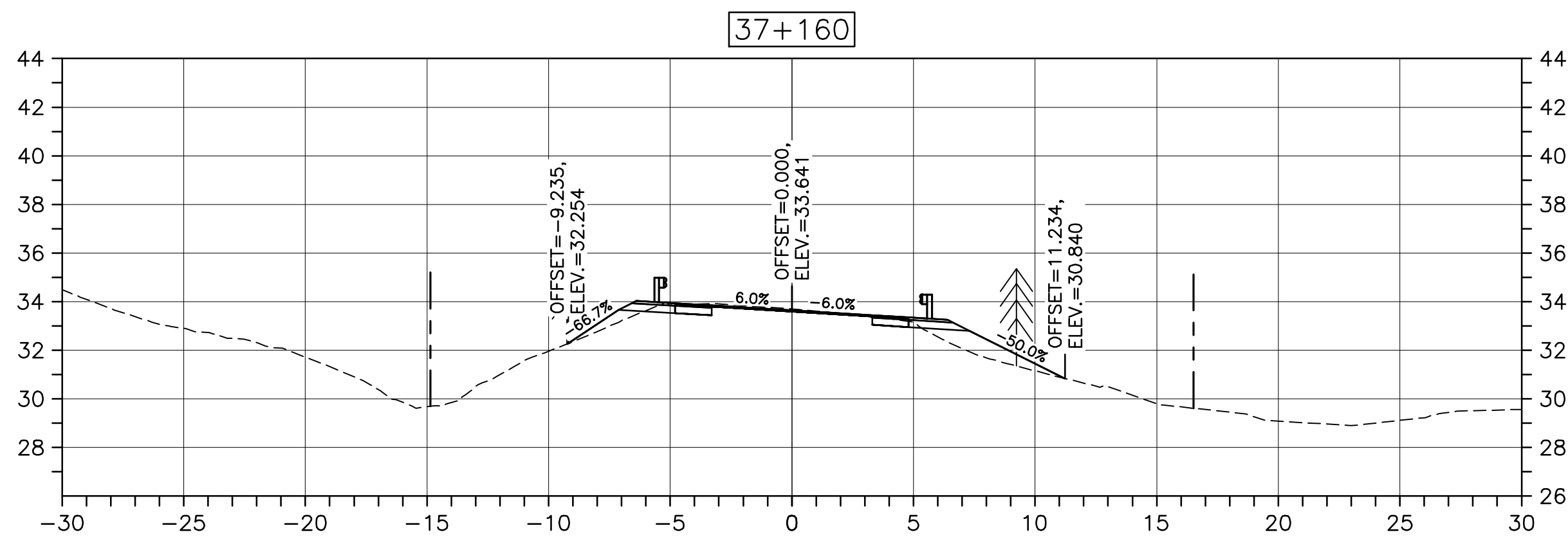
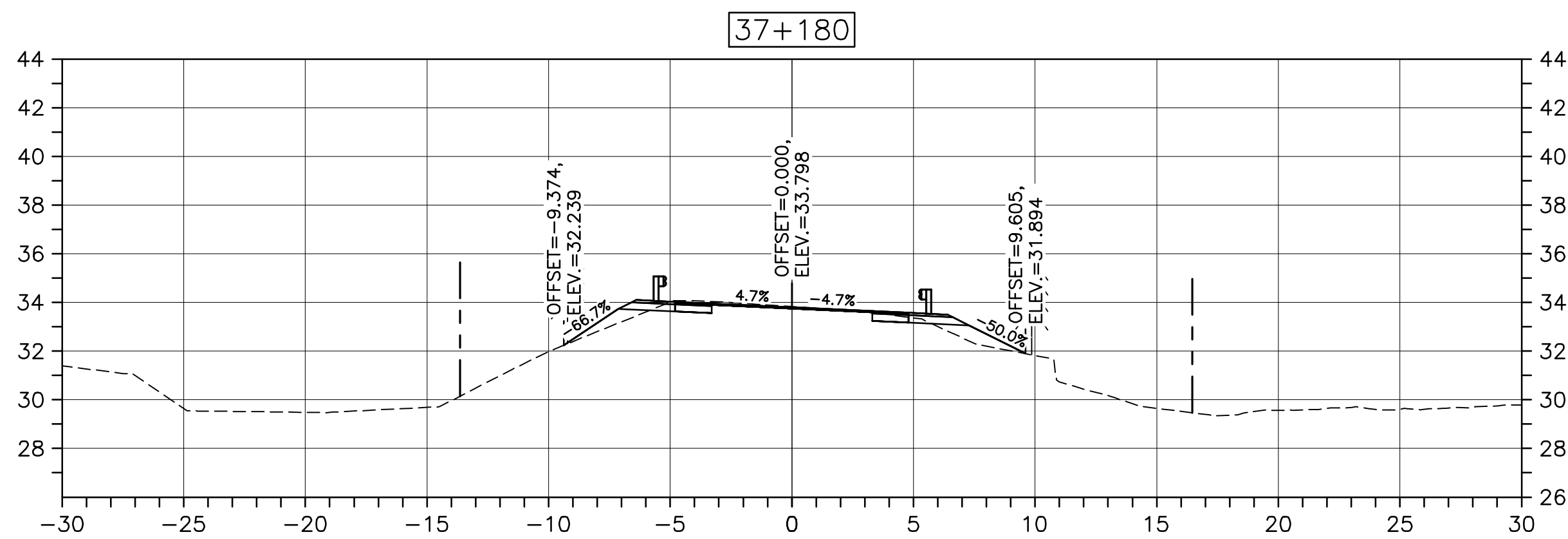
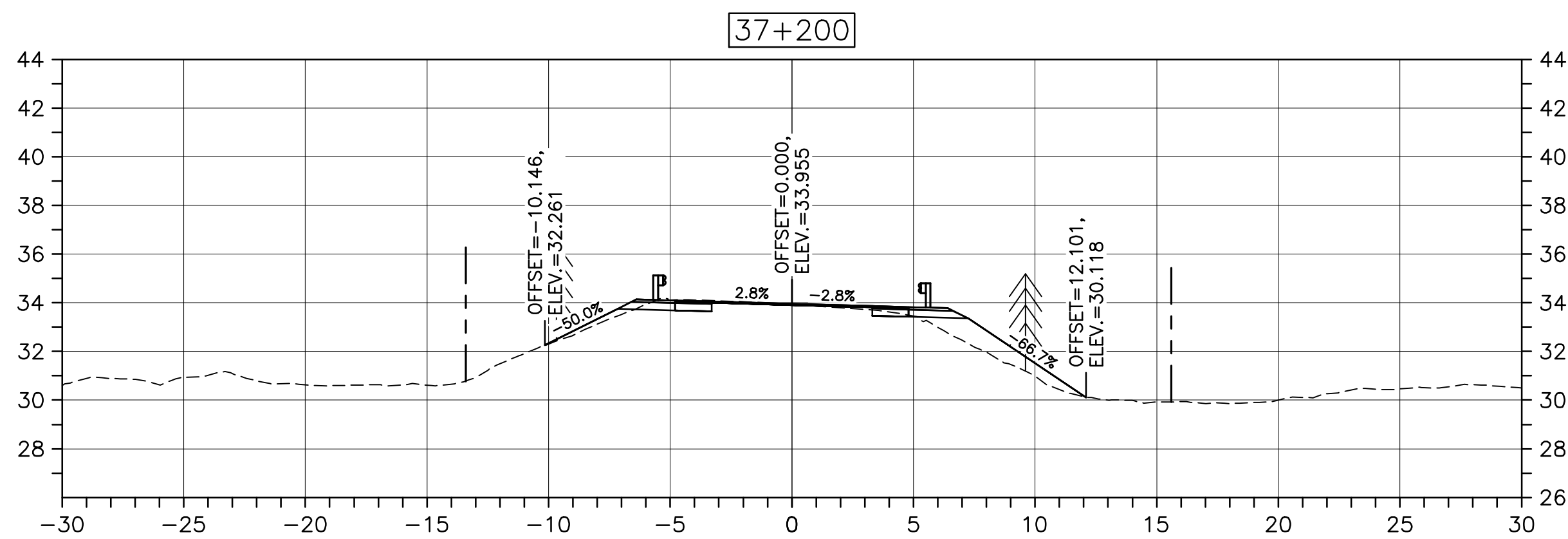
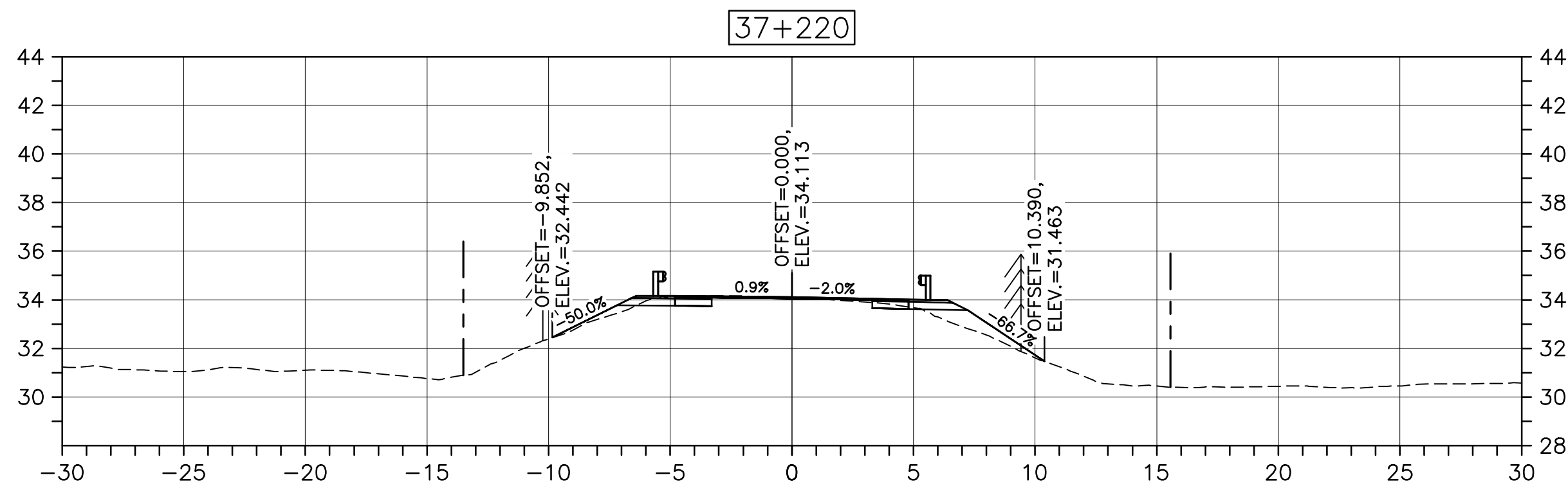
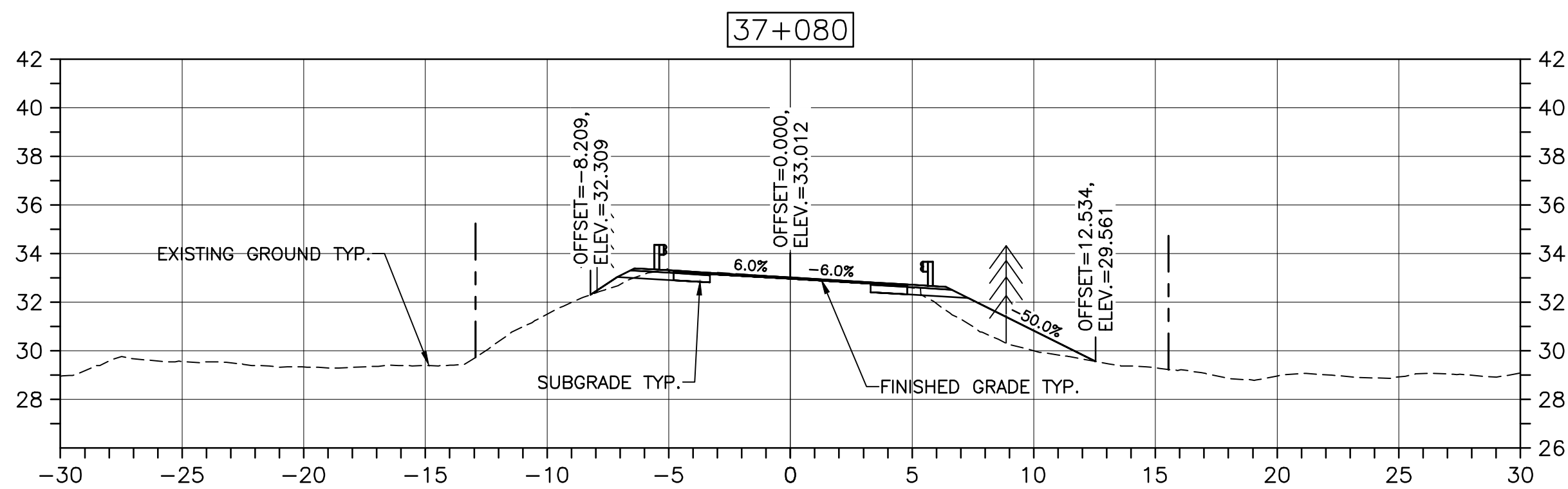
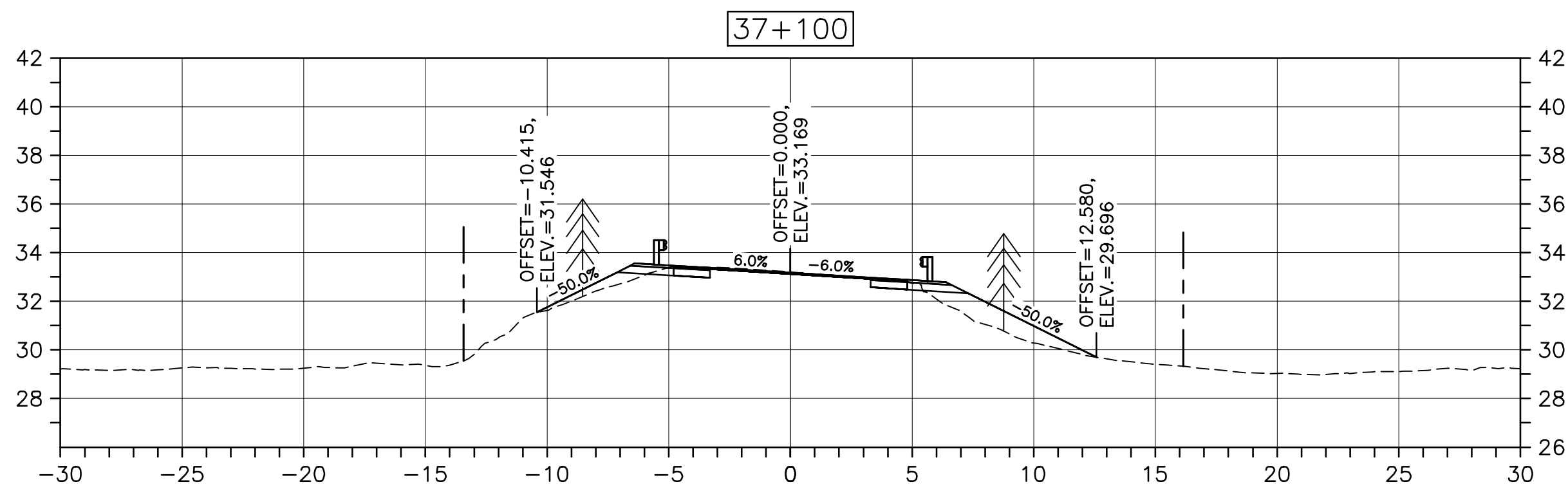
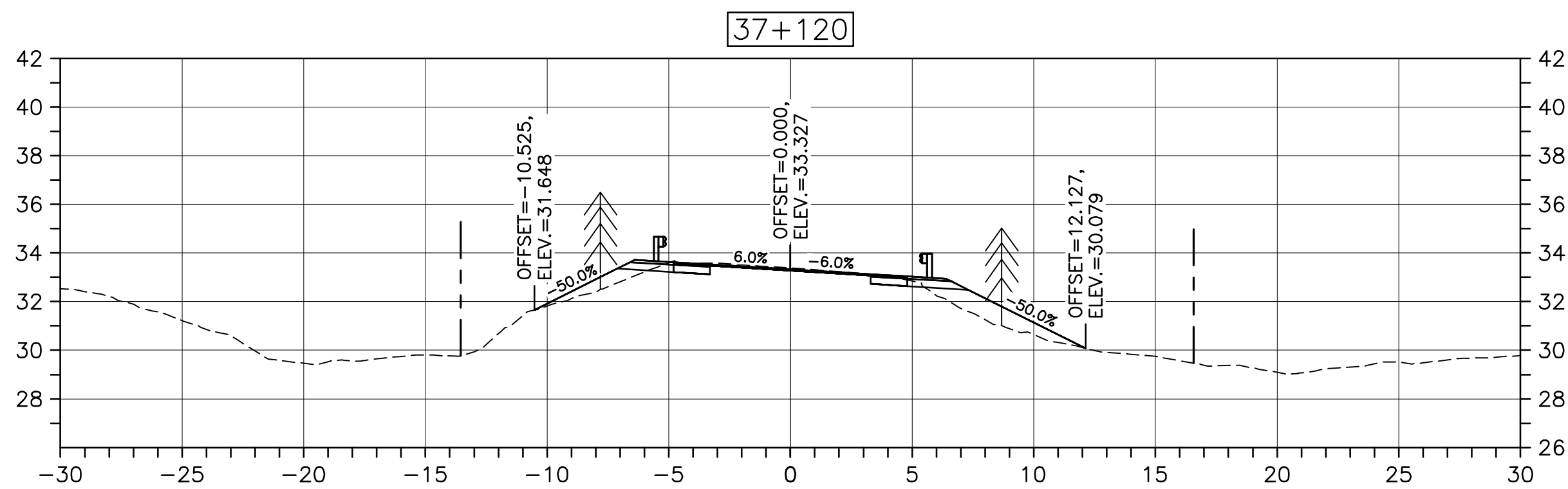
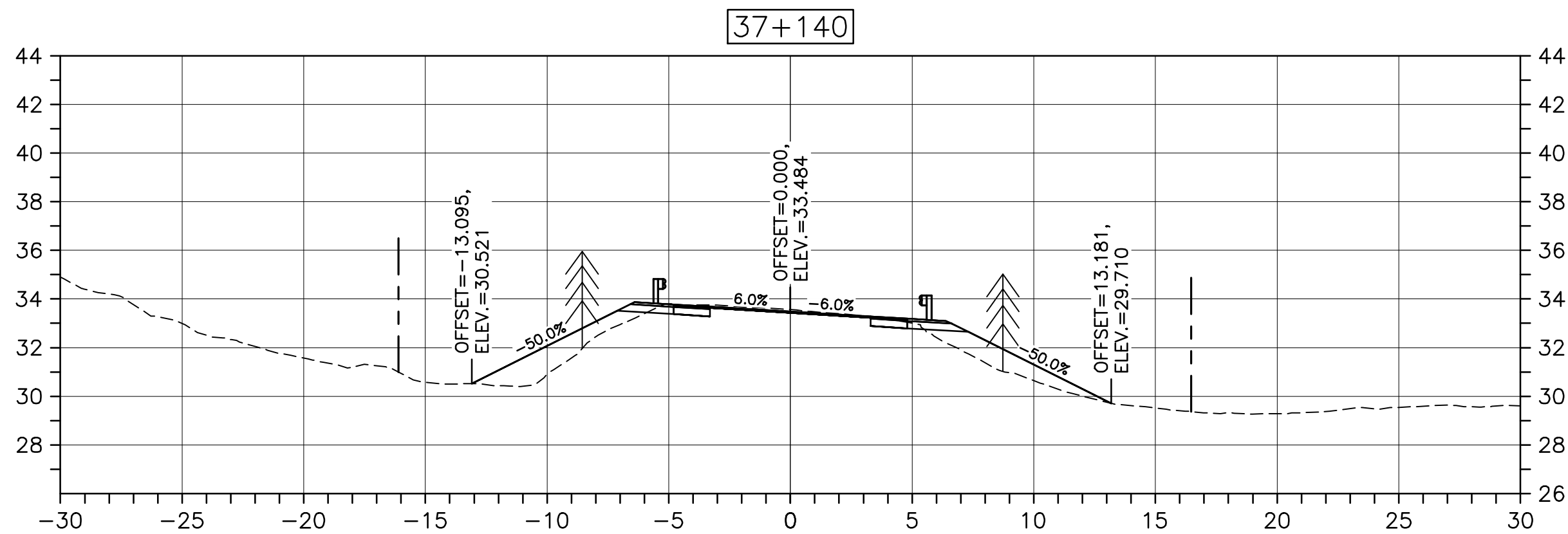
C-63

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PWOSC A1 (2004)

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0	ISSUED FOR TENDER	02/15 2019
revisions		date

project	project
CABOT TRAIL REHABILITATION PLEASANT BAY TO NORTH MOUNTAIN CAPE BRETON HIGHLANDS NATIONAL PARK	

drawing	dessin
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DESIGN SECTIONS

designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	

Tender	Soumission
PCA Project Manager	Administrateur de projets PCA

project number	no. du projet
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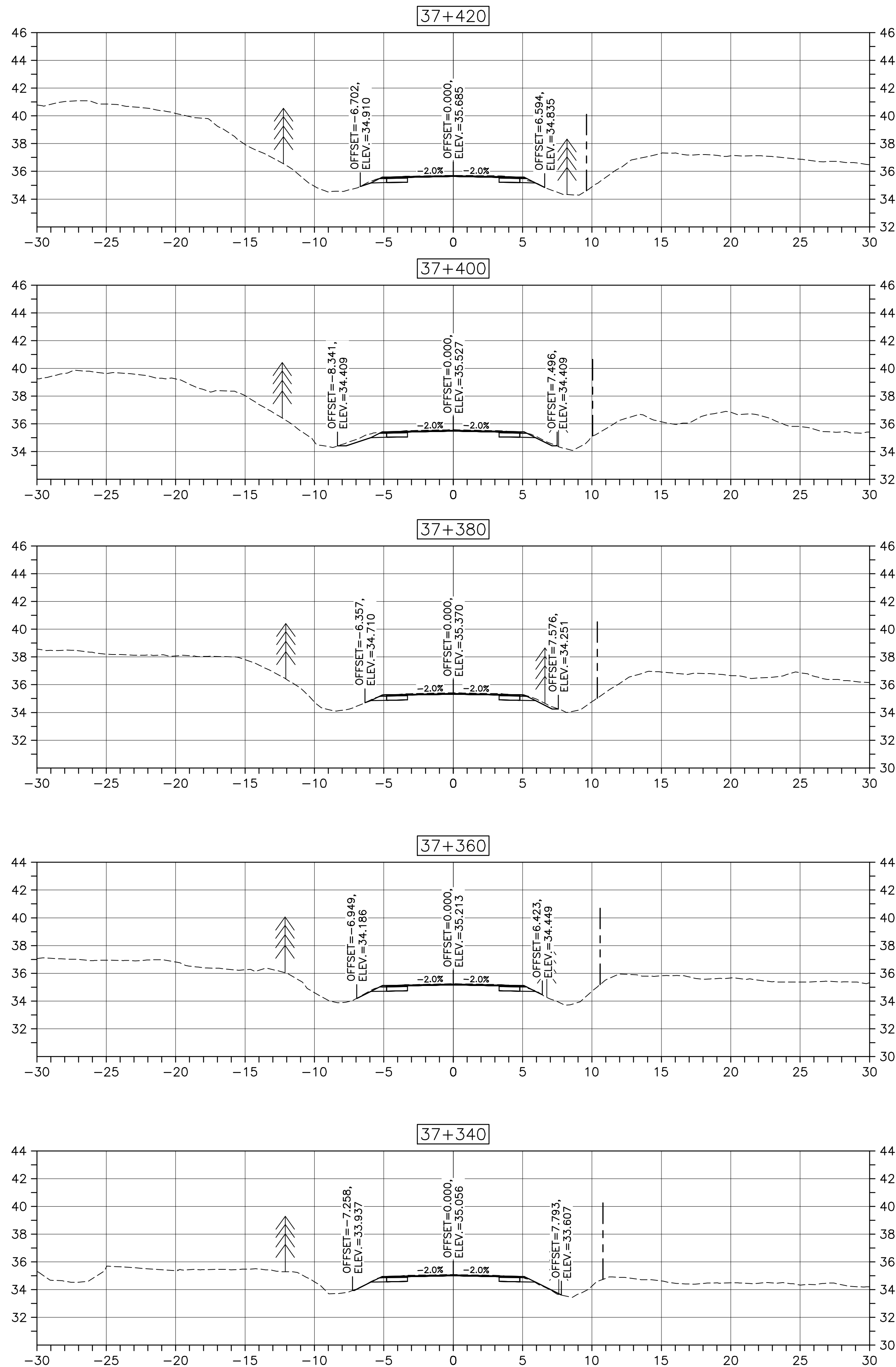
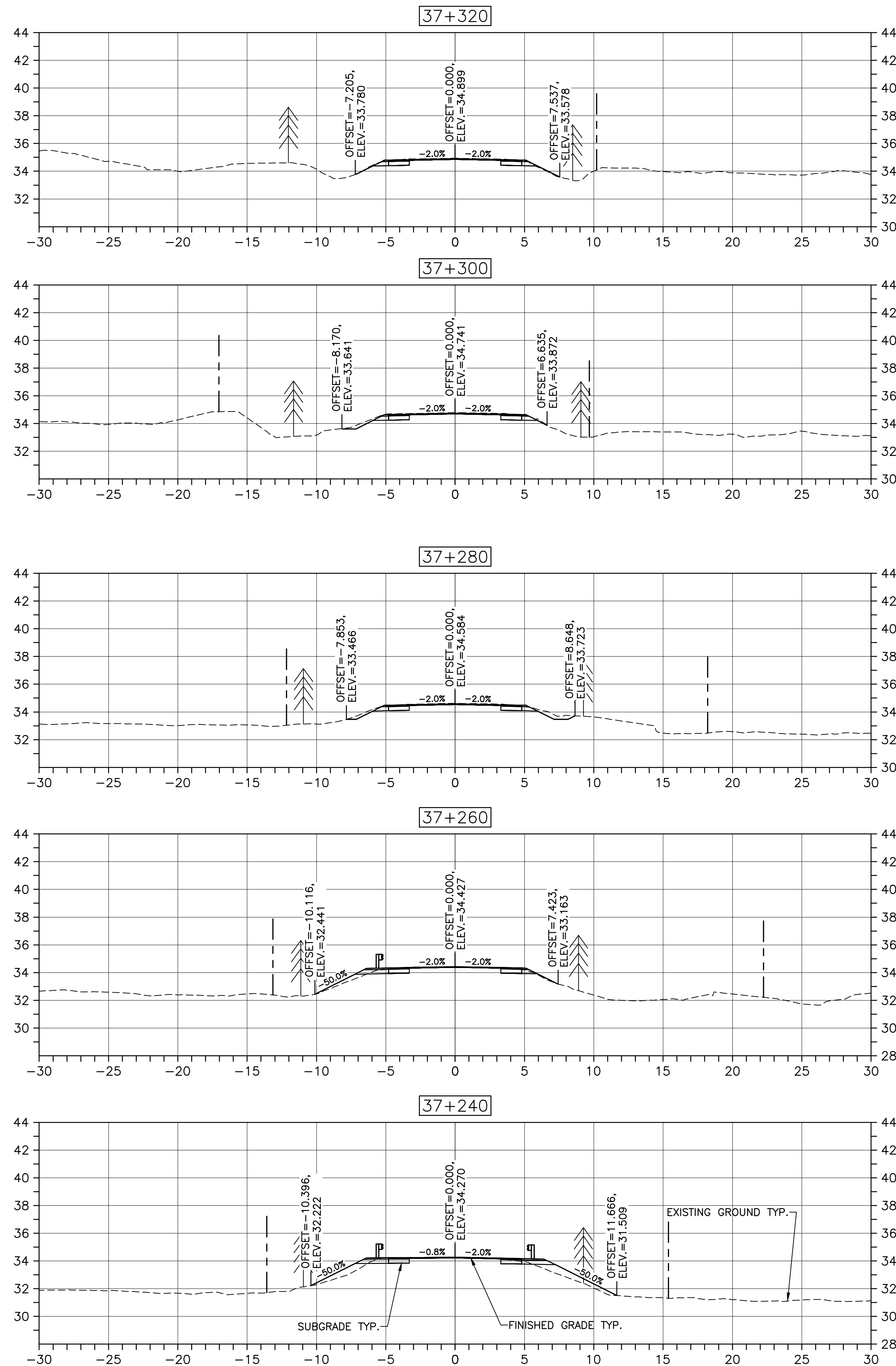
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drawing no.	no. du dessin
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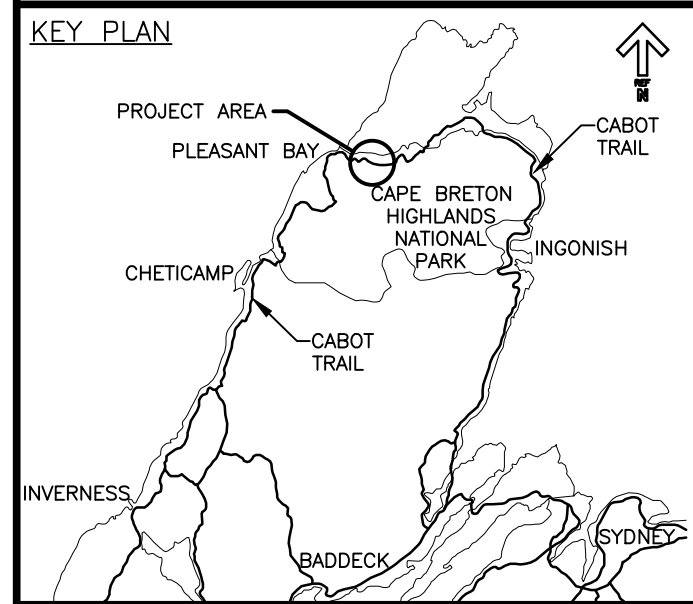
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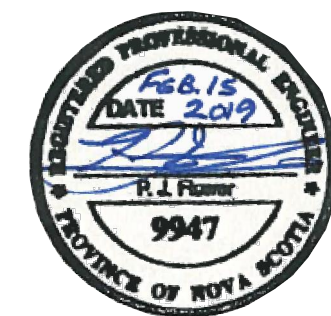
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LEGEND:

EXISTING TREELINE

CLEARING LIMIT



0	ISSUED FOR TENDER	02/15 2019
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project CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing dessin

DESIGN SECTIONS

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date MAY. 31, 2018	
approved RMB	approuvé
date FEB. 15, 2019	

Tender PCA Project Manager Soumission Administrateur de projets PCA

project number no. du projet

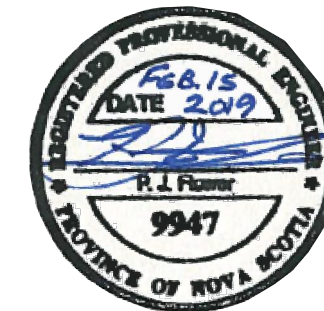
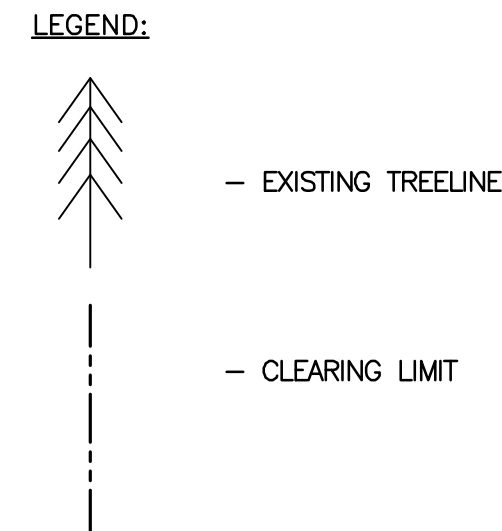
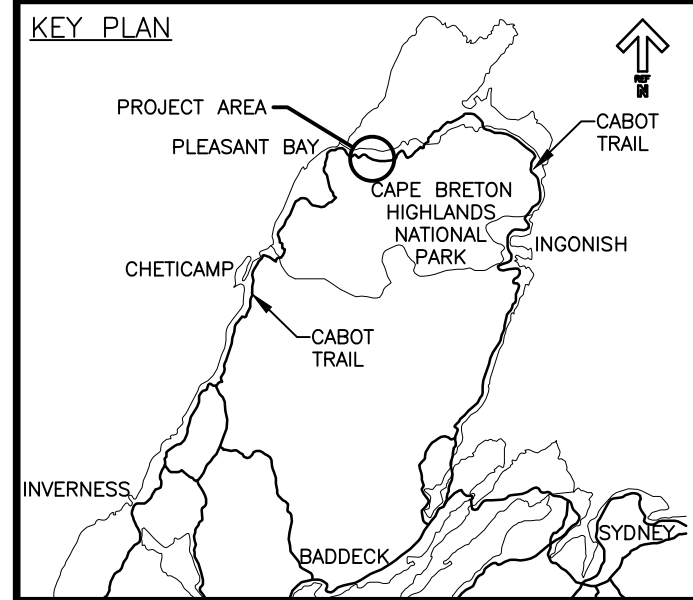
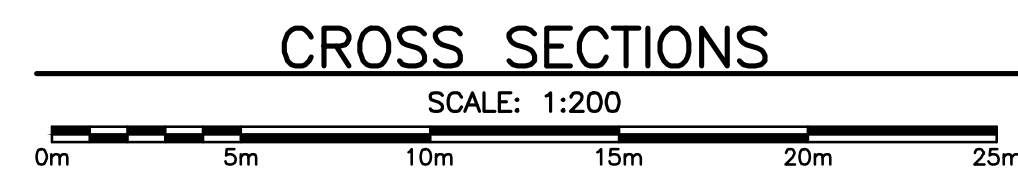
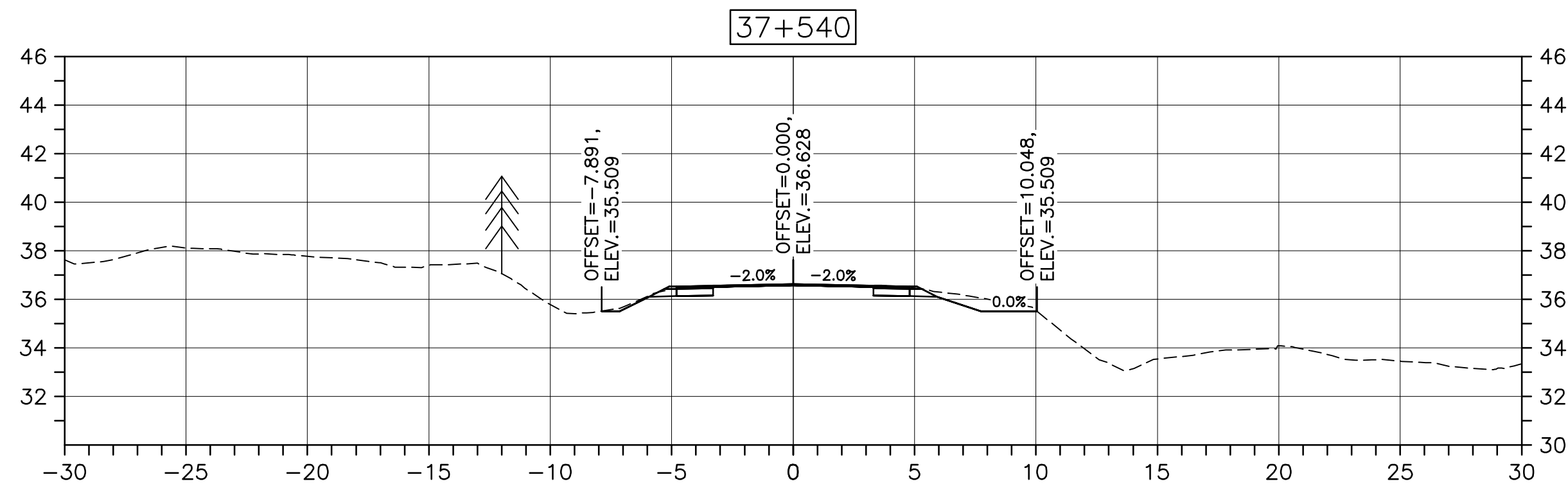
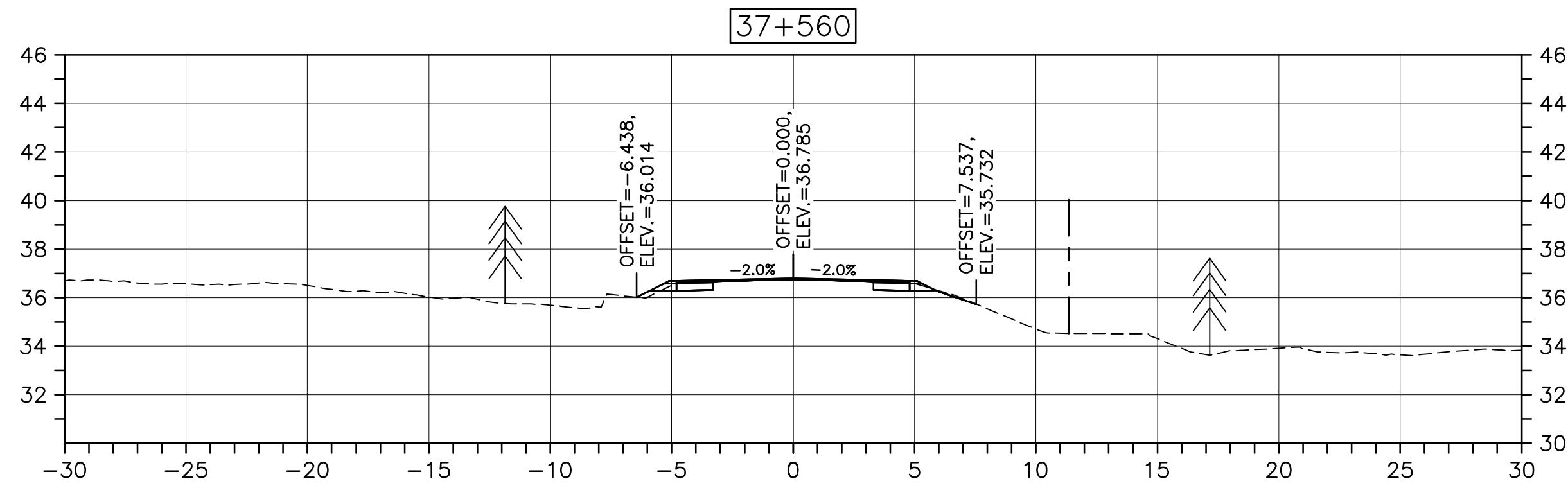
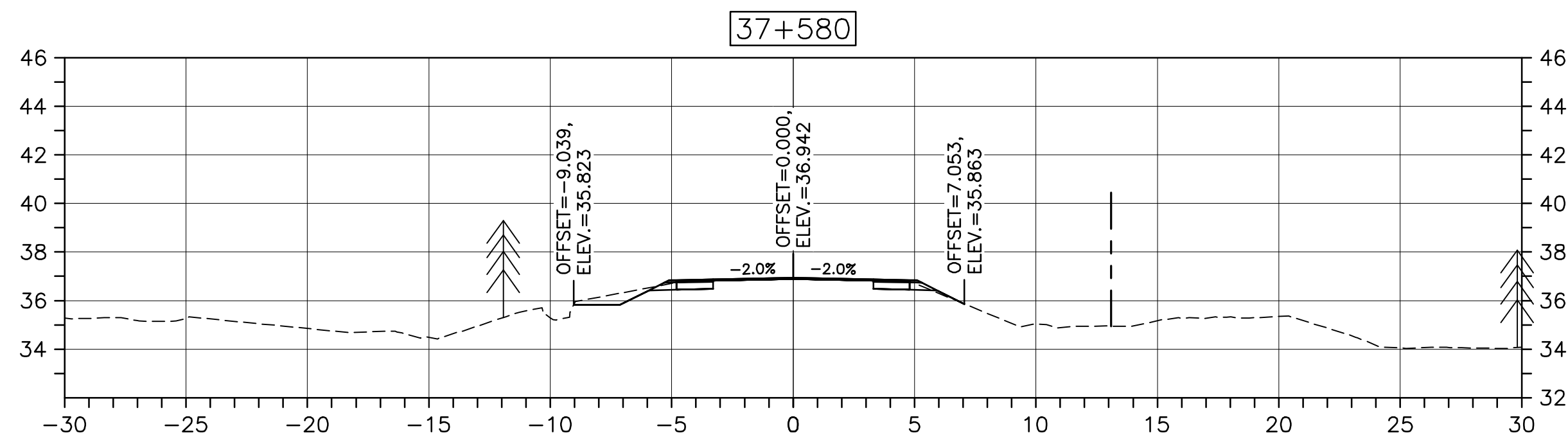
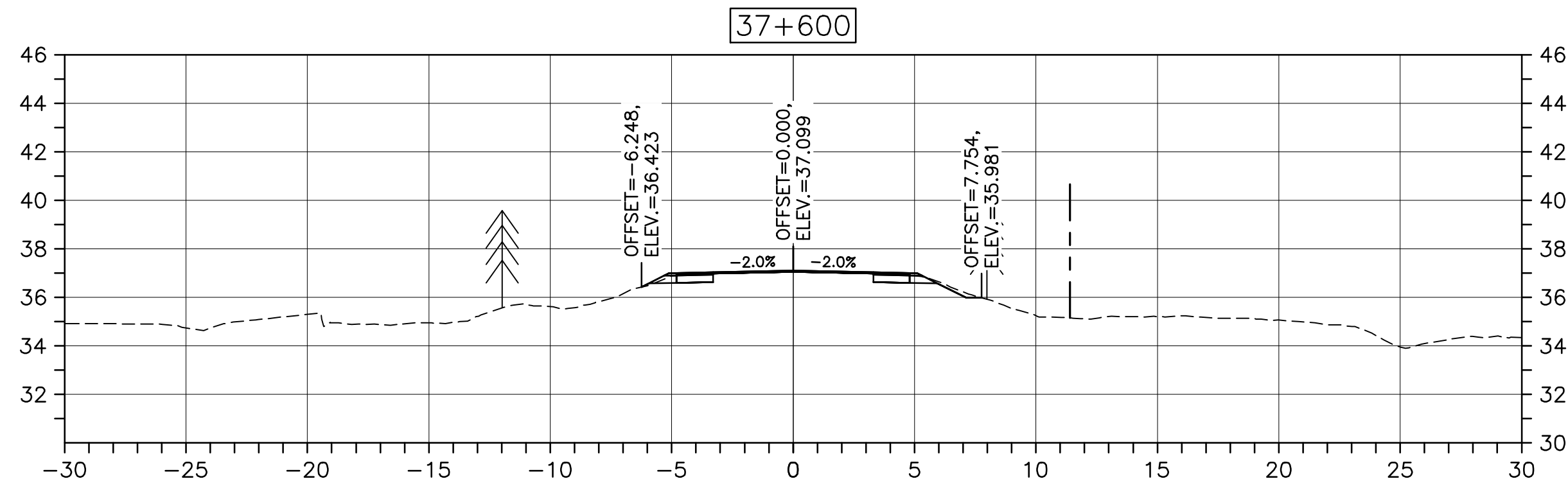
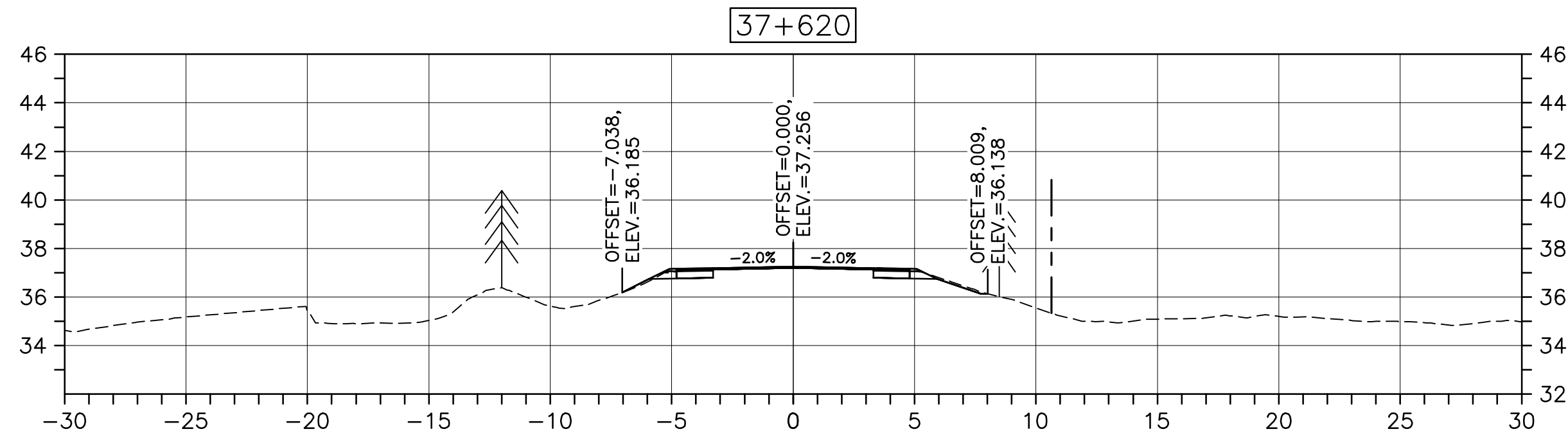
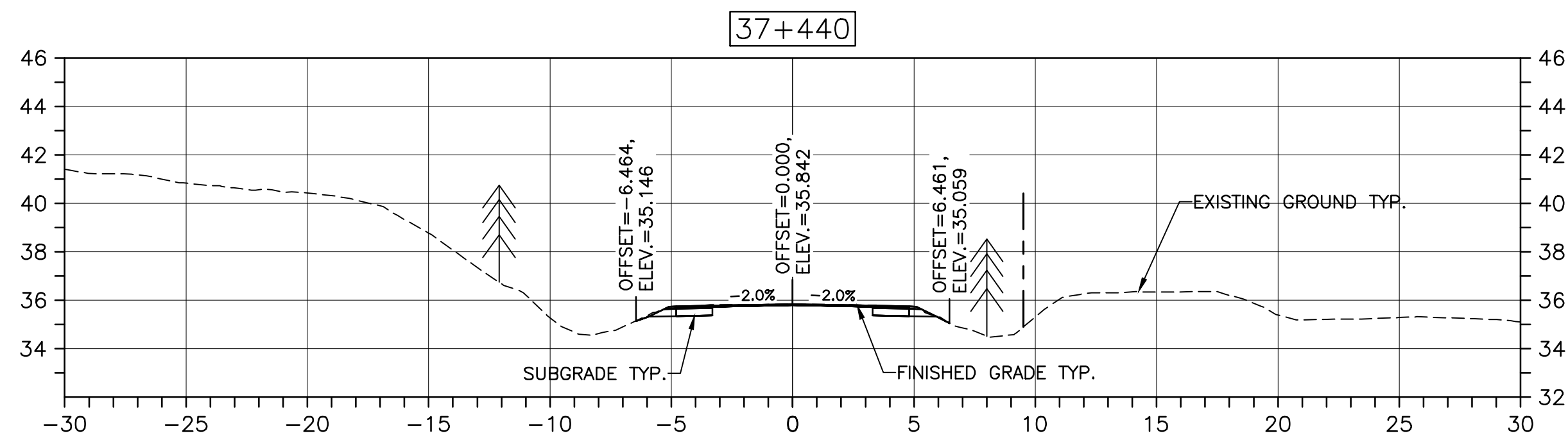
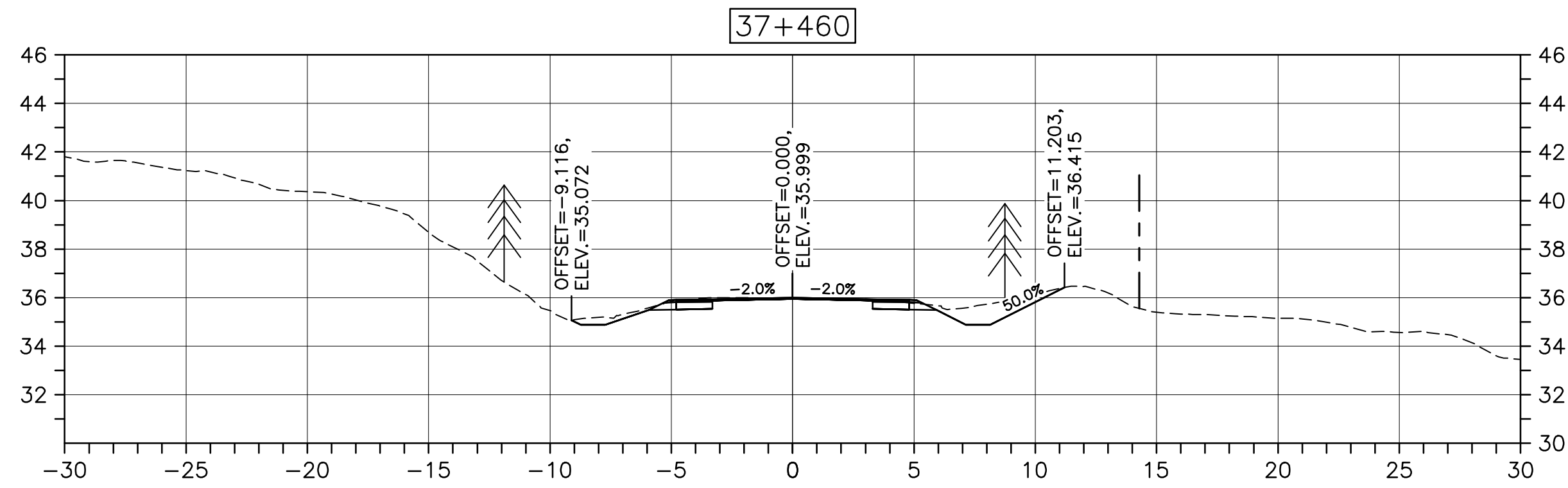
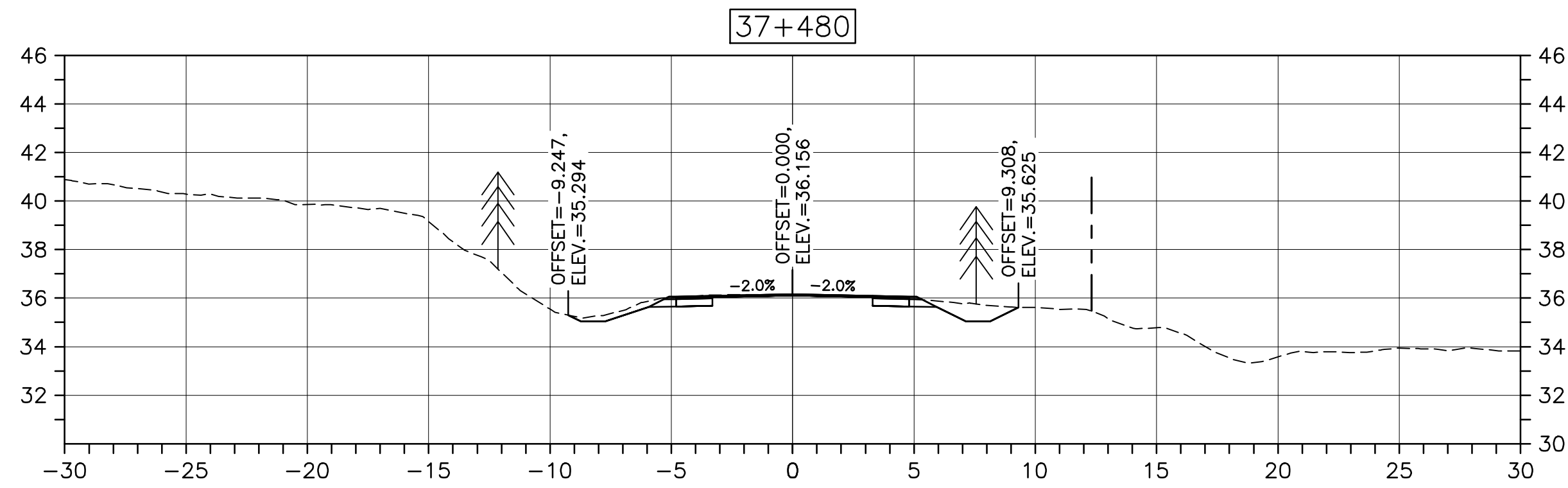
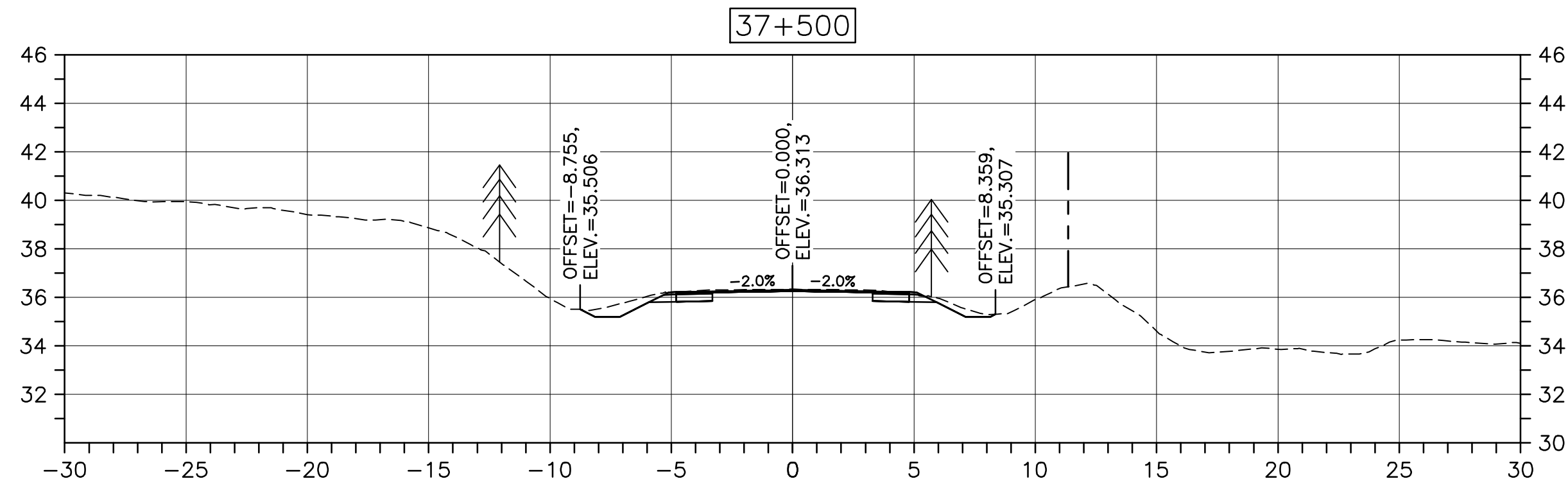
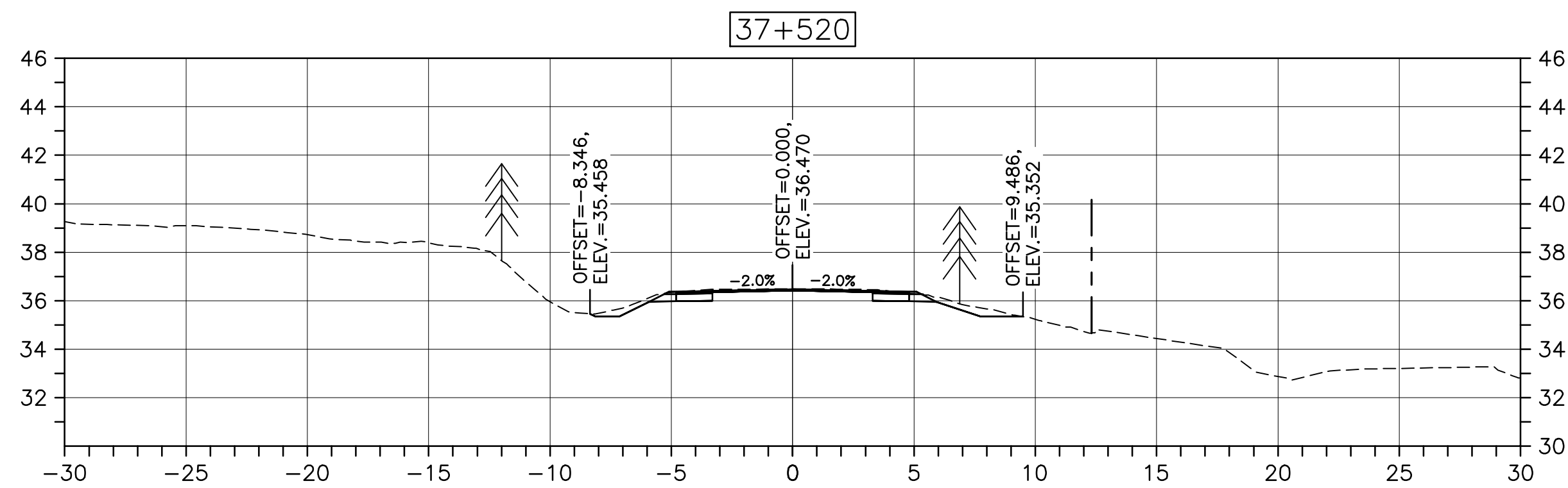
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drawing no. no. du dessin

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PWOSC A1 (2004)



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revisions		date
project		projet

CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing dessin

DESIGN SECTIONS

designed DSC	conçu
date MAY. 31, 2018	
drawn JLD/CCP	dessiné
date MAY. 31, 2018	
approved RMB	approuvé
date FEB. 15, 2019	

Tender Soumission
PCA Project Manager Administrateur de projets PCA

project number no. du projet

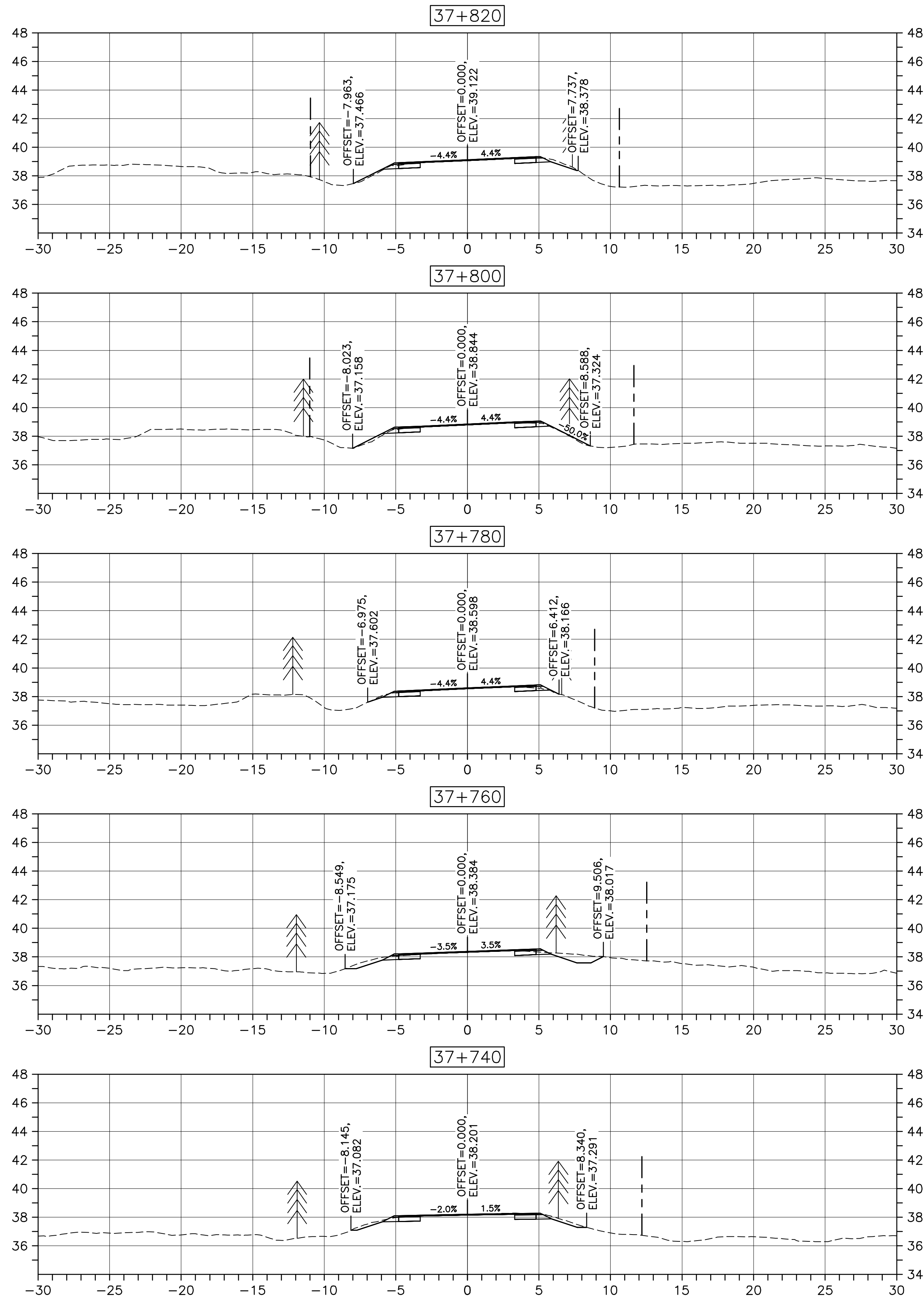
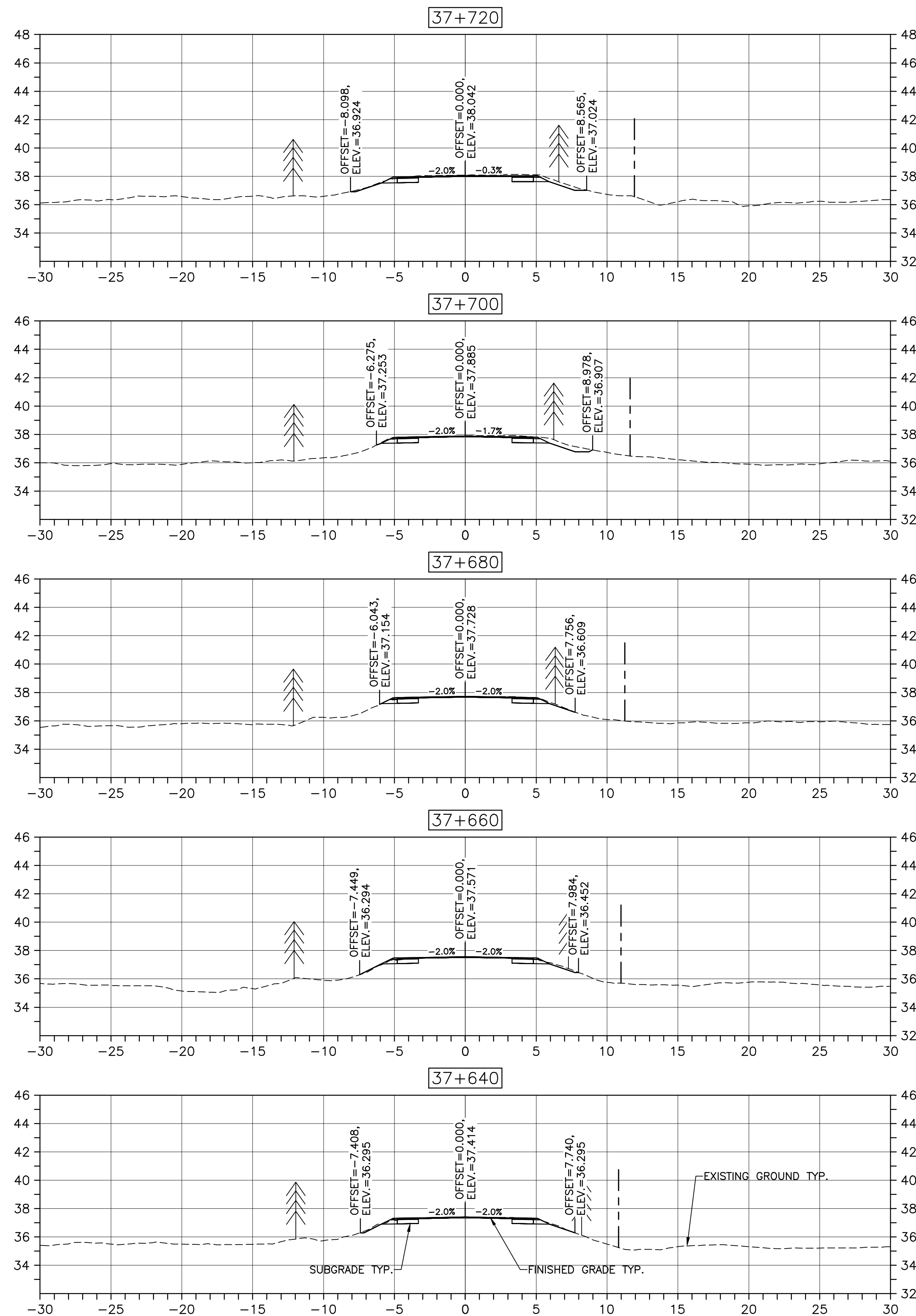
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drawing no. no. du dessin

C-66

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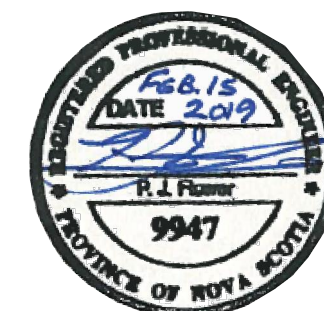
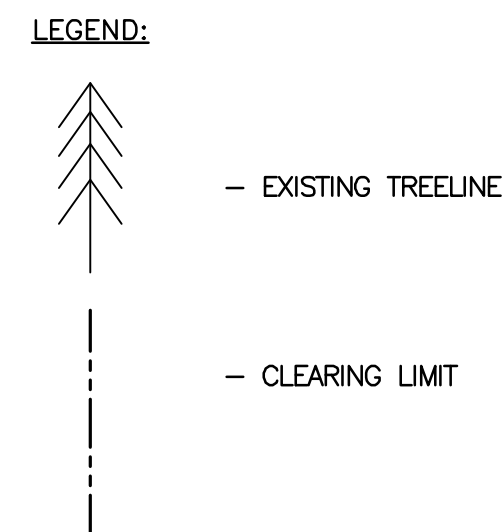
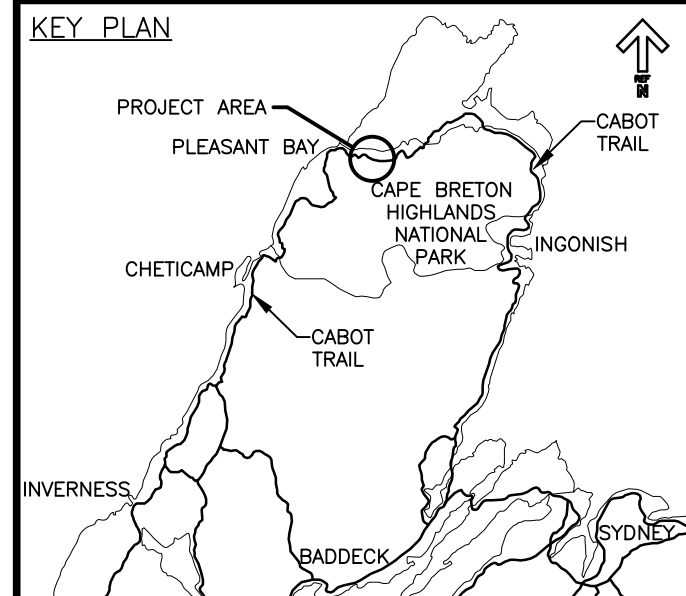
PWGSC A1 (2004)



CROSS SECTIONS

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project CABOT TRAIL REHABILITATION PLEASANT BAY TO NORTH MOUNTAIN CAPE BRETON HIGHLANDS NATIONAL PARK

drawing dessin

DESIGN SECTIONS

designed DSC	conçu
date MAY. 31, 2018	
drawn JLD/CCP	dessiné
date MAY. 31, 2018	
approved RMB	approuvé
date FEB. 15, 2019	

Tender PCA Project Manager

project number

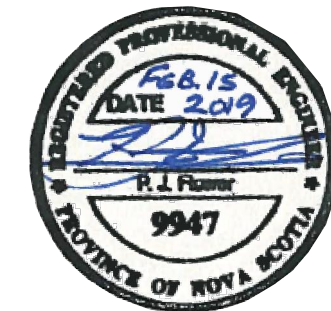
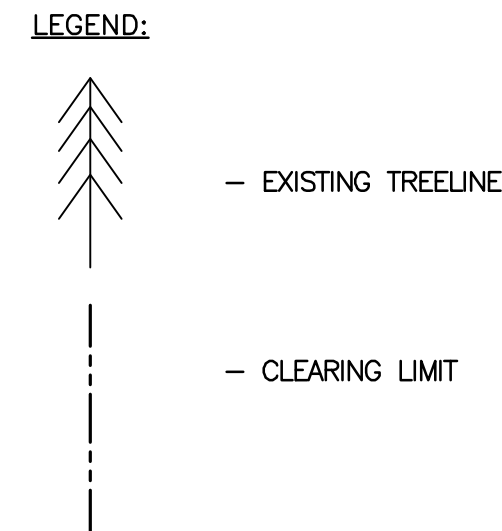
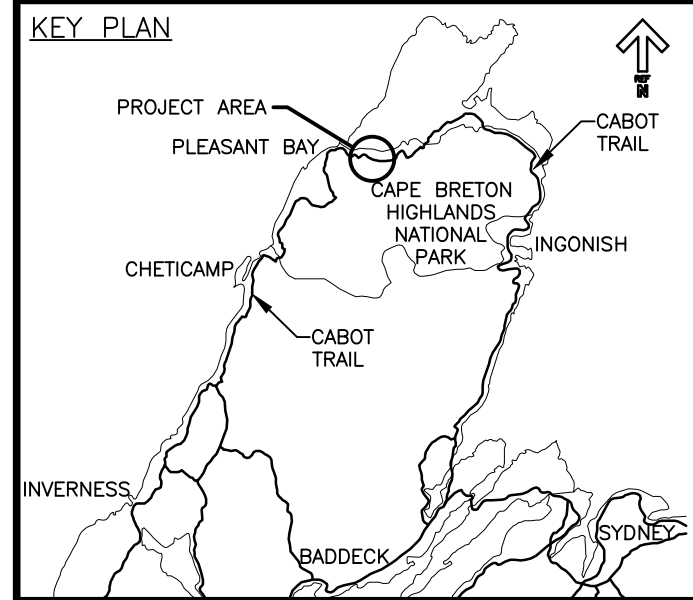
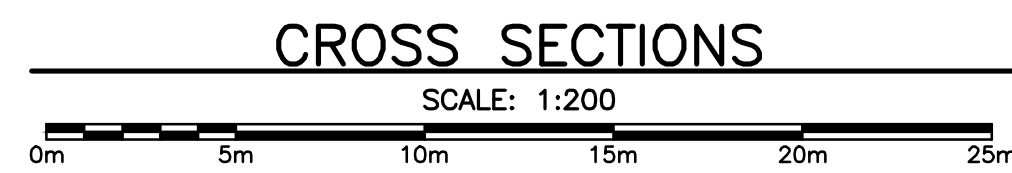
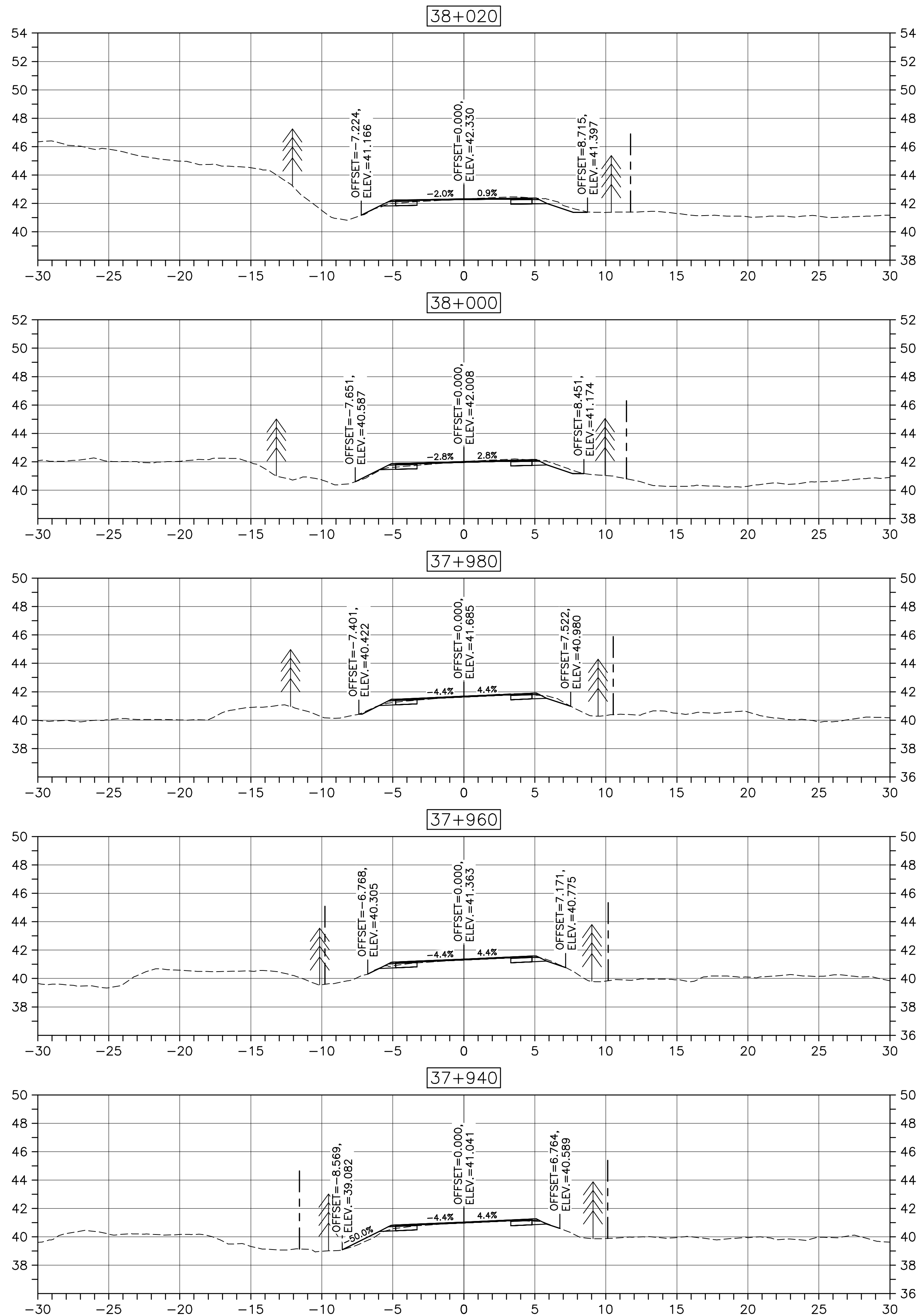
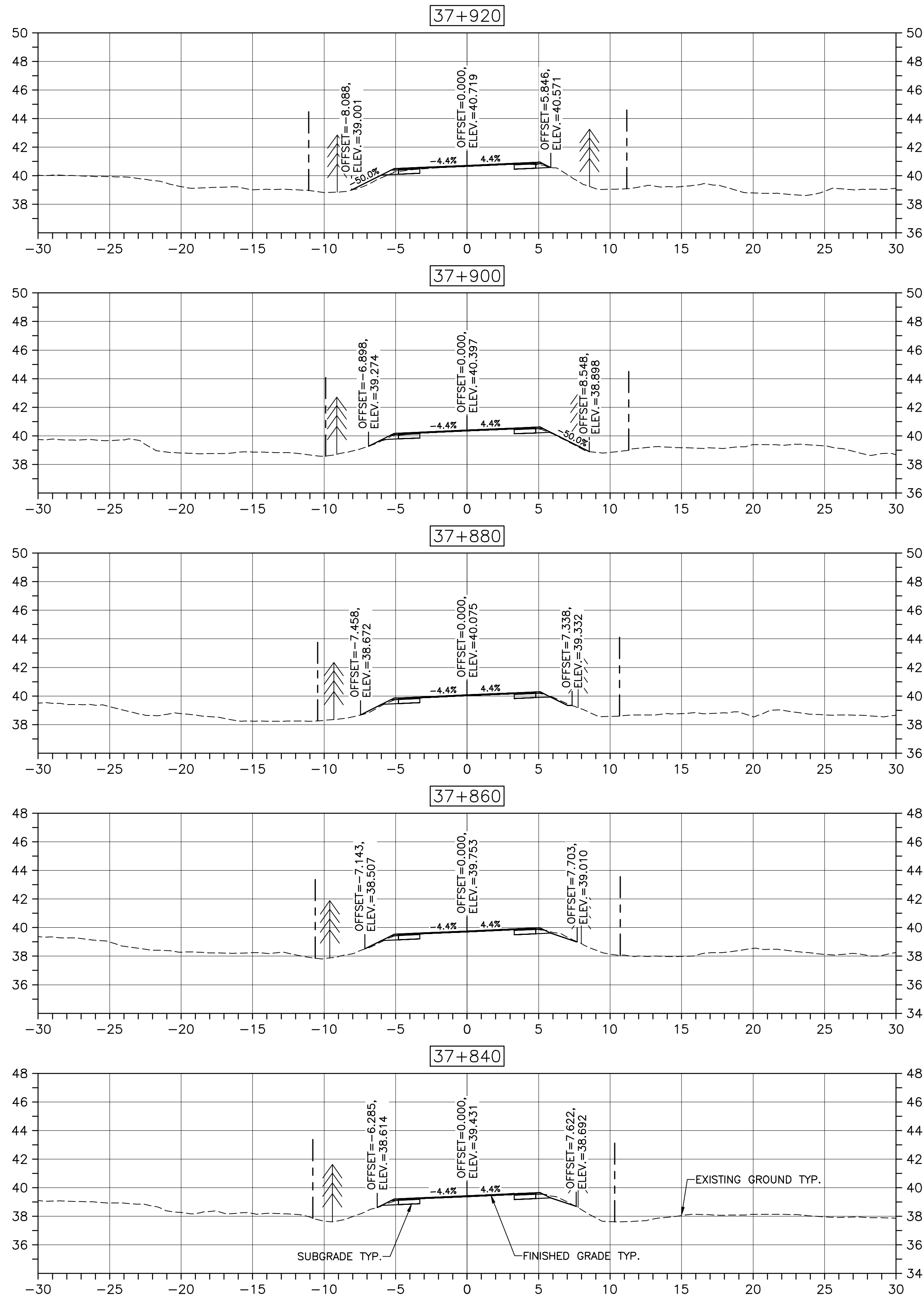
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drawing no. C-67

E-DRM/GDD-E: NOT IN SYSTEM

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PWOSC A1 (2004)



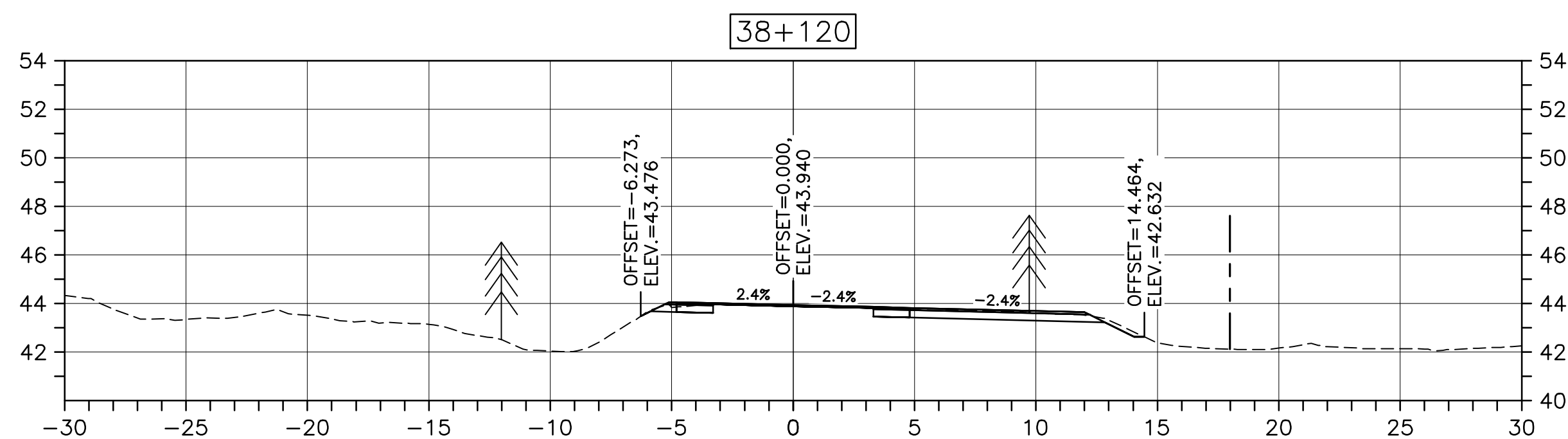
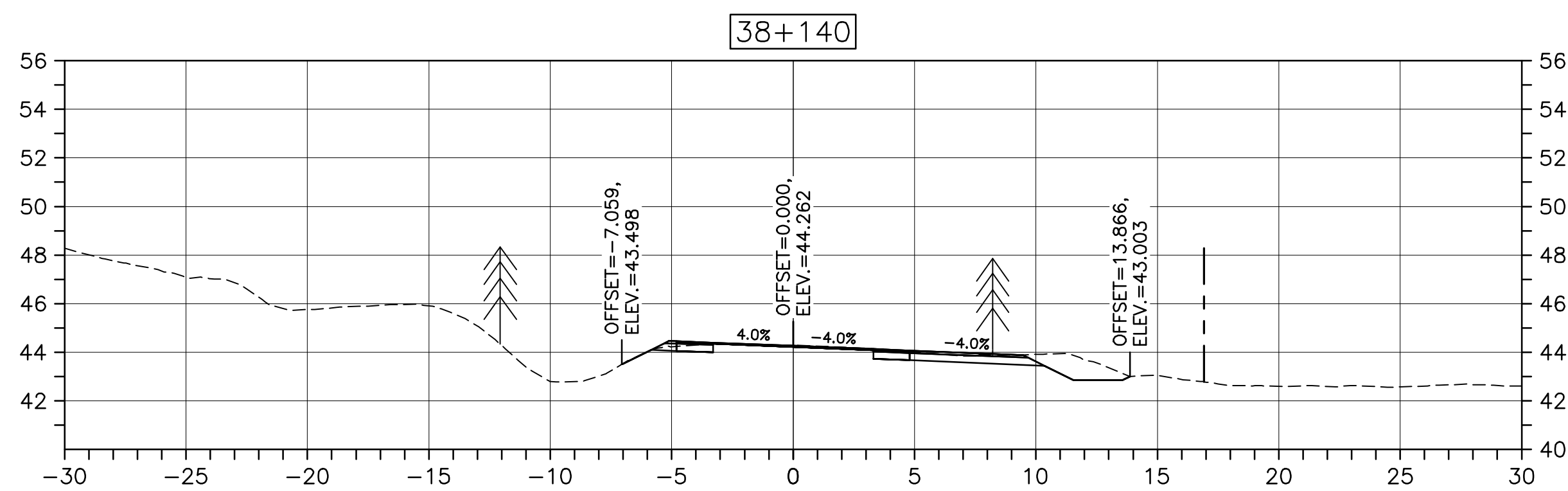
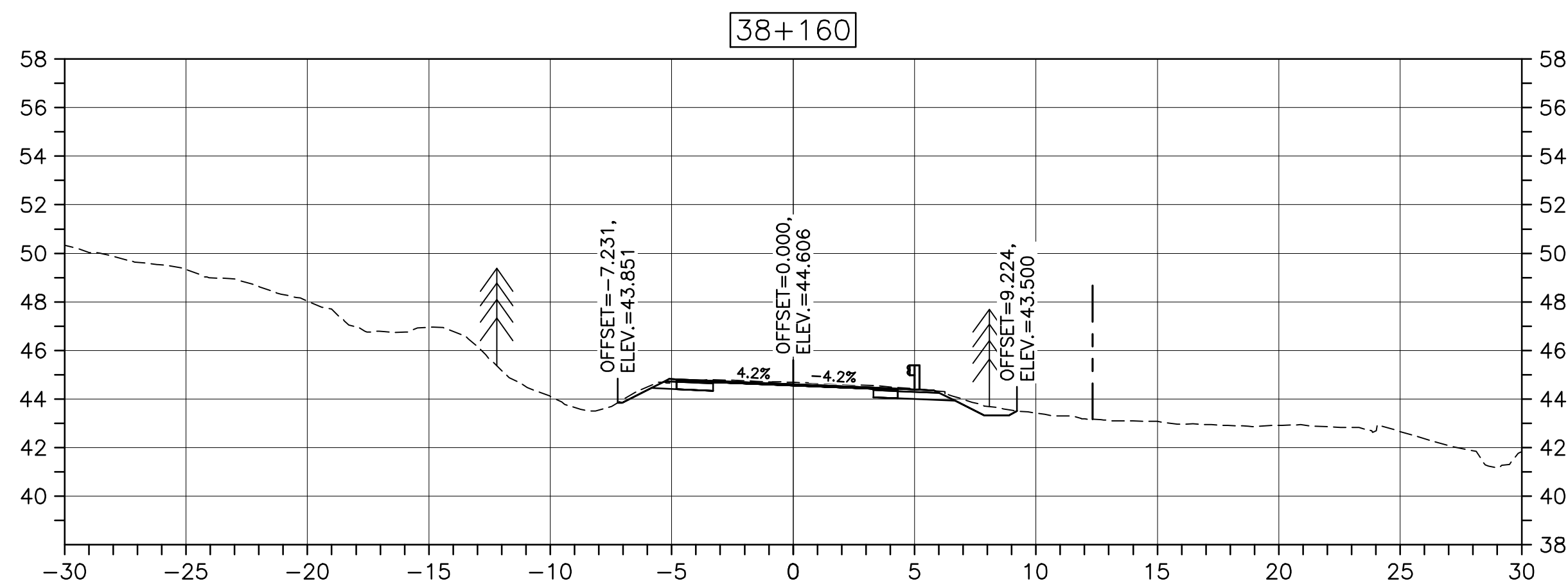
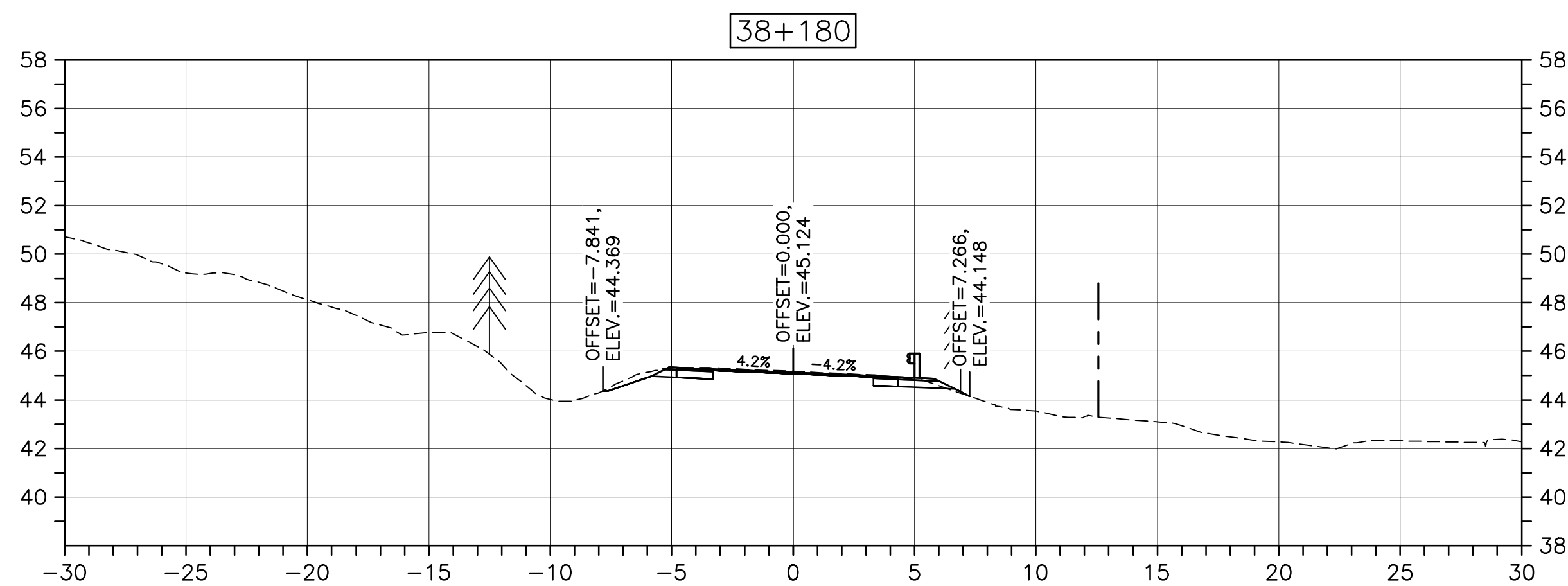
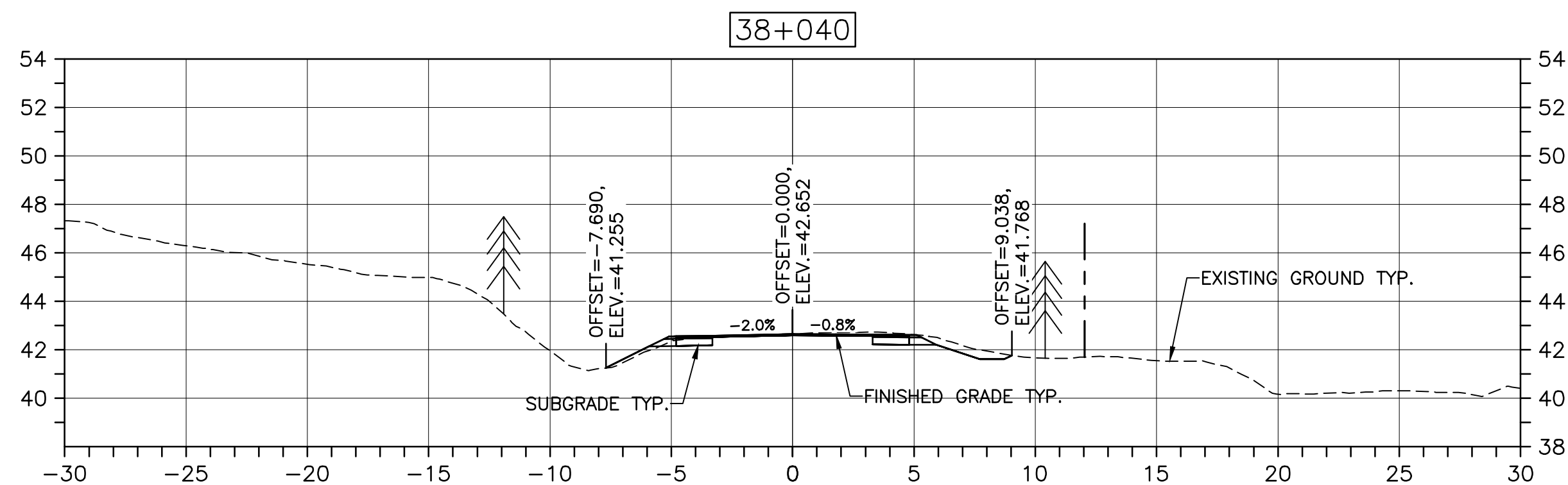
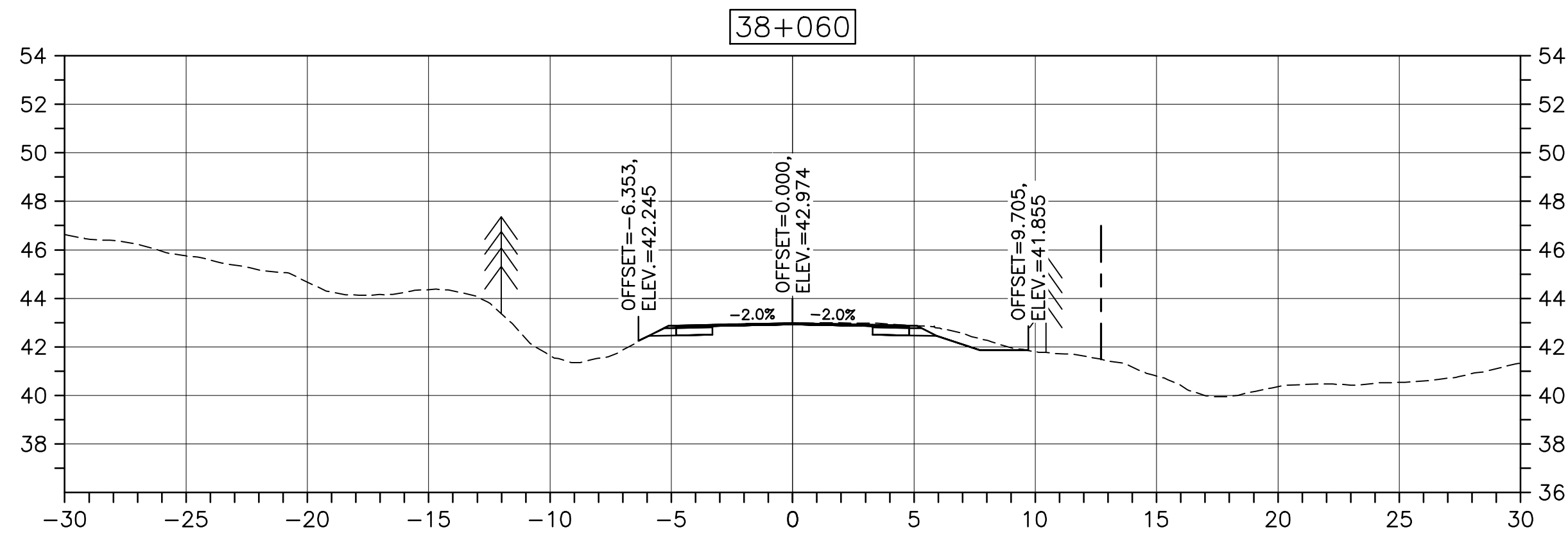
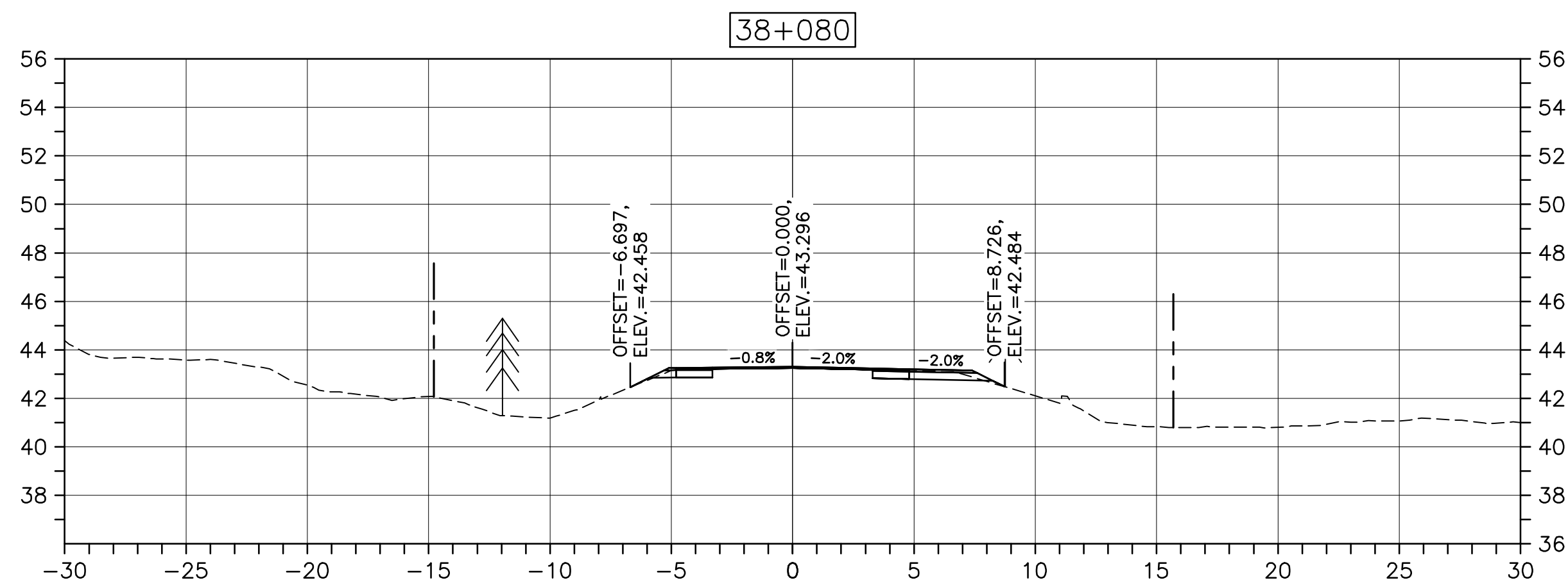
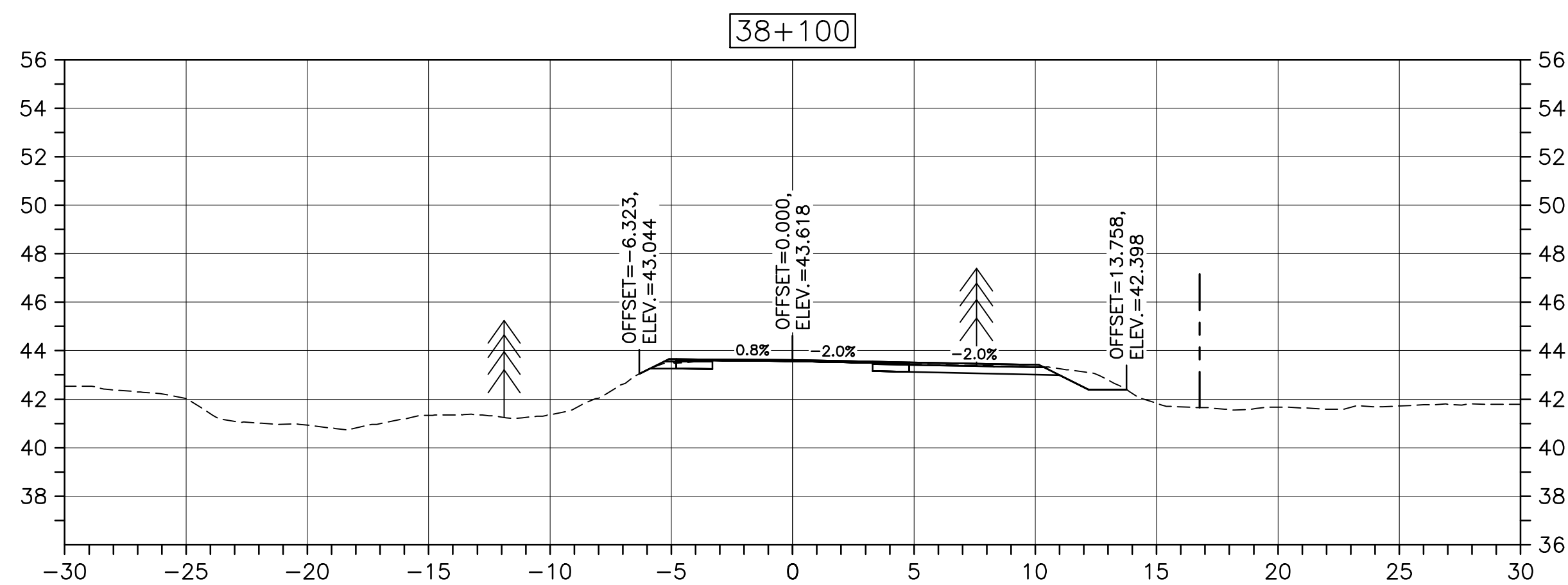
0	ISSUED FOR TENDER	02/15 2019
revisions		date
project	CABOT TRAIL REHABILITATION PLEASANT BAY TO NORTH MOUNTAIN CAPE BRETON HIGHLANDS NATIONAL PARK	
drawing		dessin

DESIGN SECTIONS

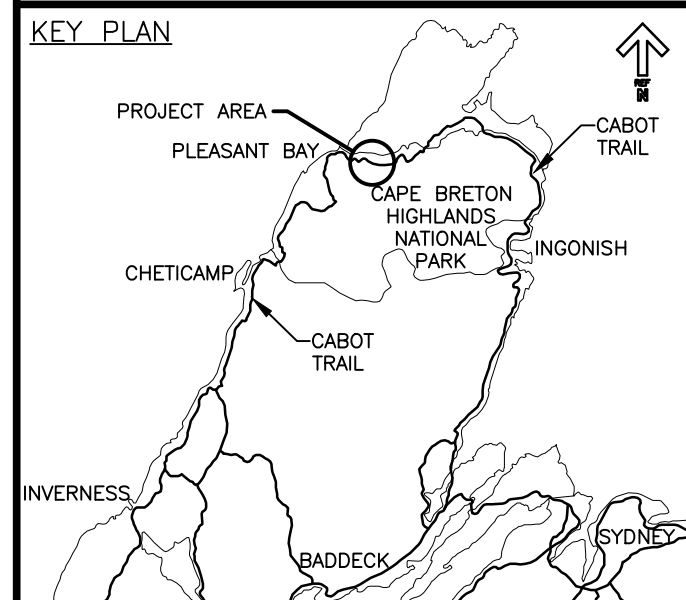
designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet
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drawing no.		no. du dessin
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PWOSC A1 (2004)



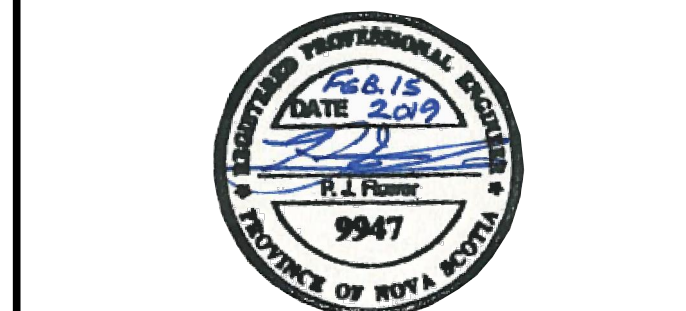
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LEGEND:

EXISTING TREELINE

CLEARING LIMIT



0	ISSUED FOR TENDER	02/15/2019
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project CABOT TRAIL REHABILITATION PLEASANT BAY TO NORTH MOUNTAIN CAPE BRETON HIGHLANDS NATIONAL PARK

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DESIGN SECTIONS

designed DSC	conçu
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Tender PCA Project Manager Soumission Administrateur de projets PCA

project number no. du projet

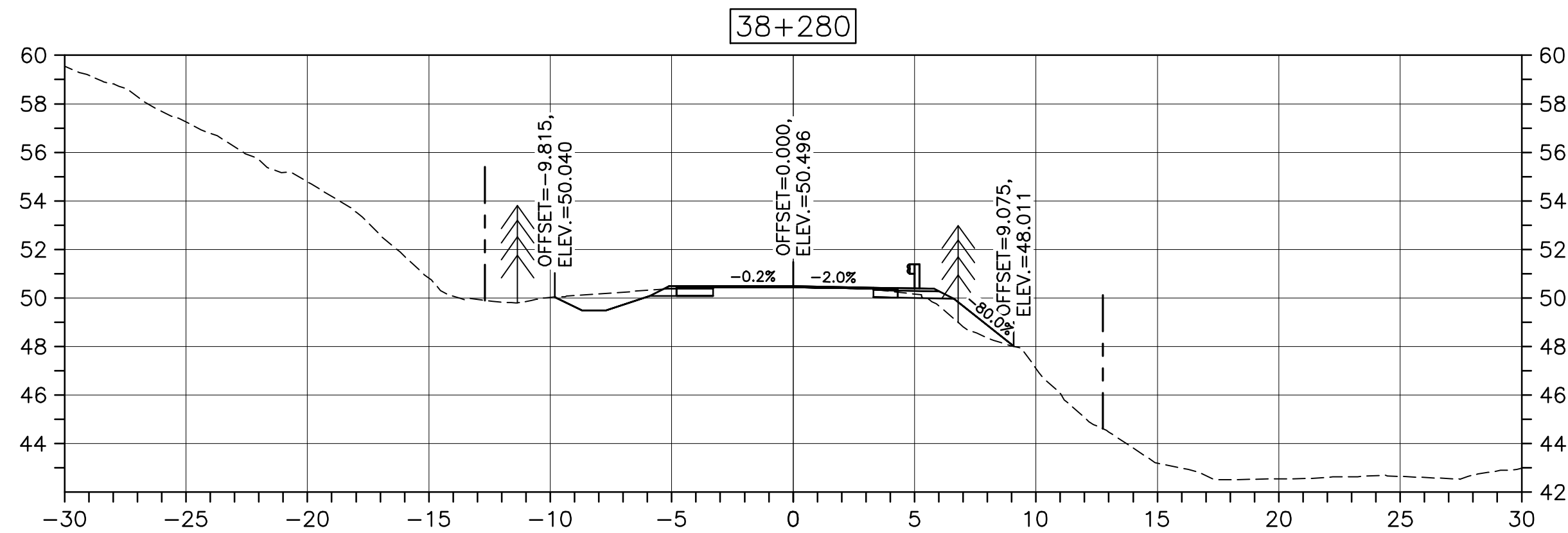
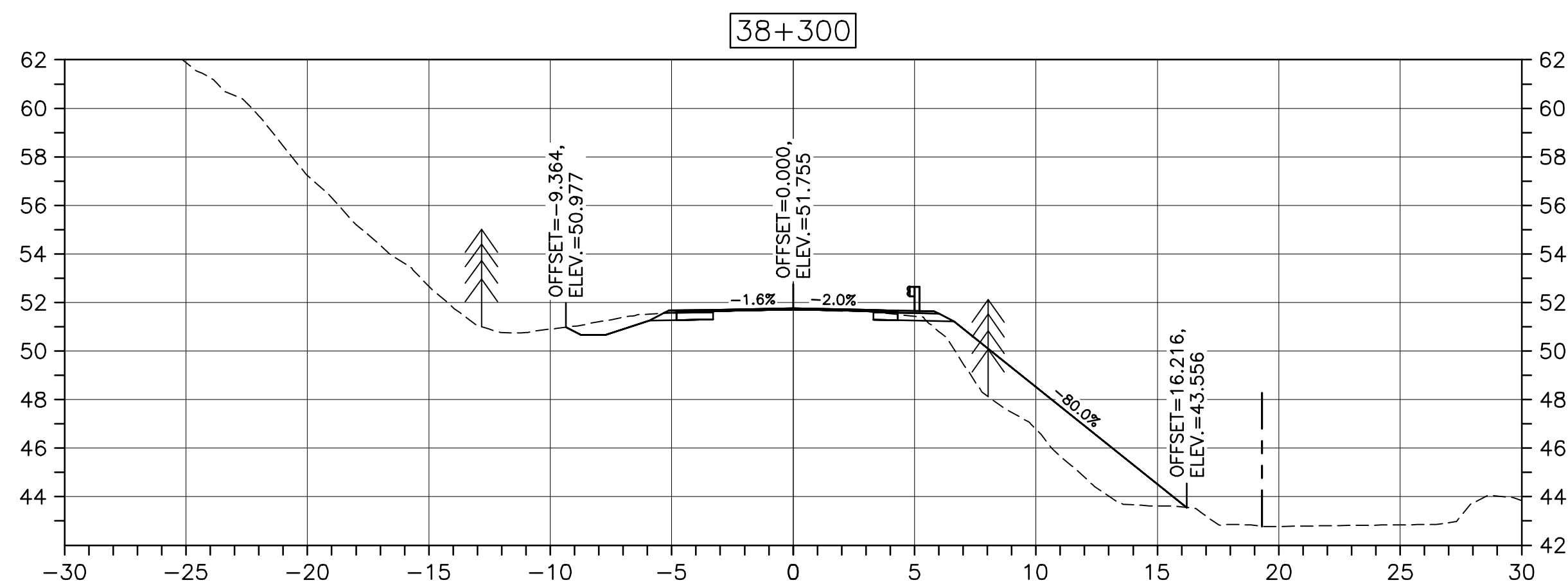
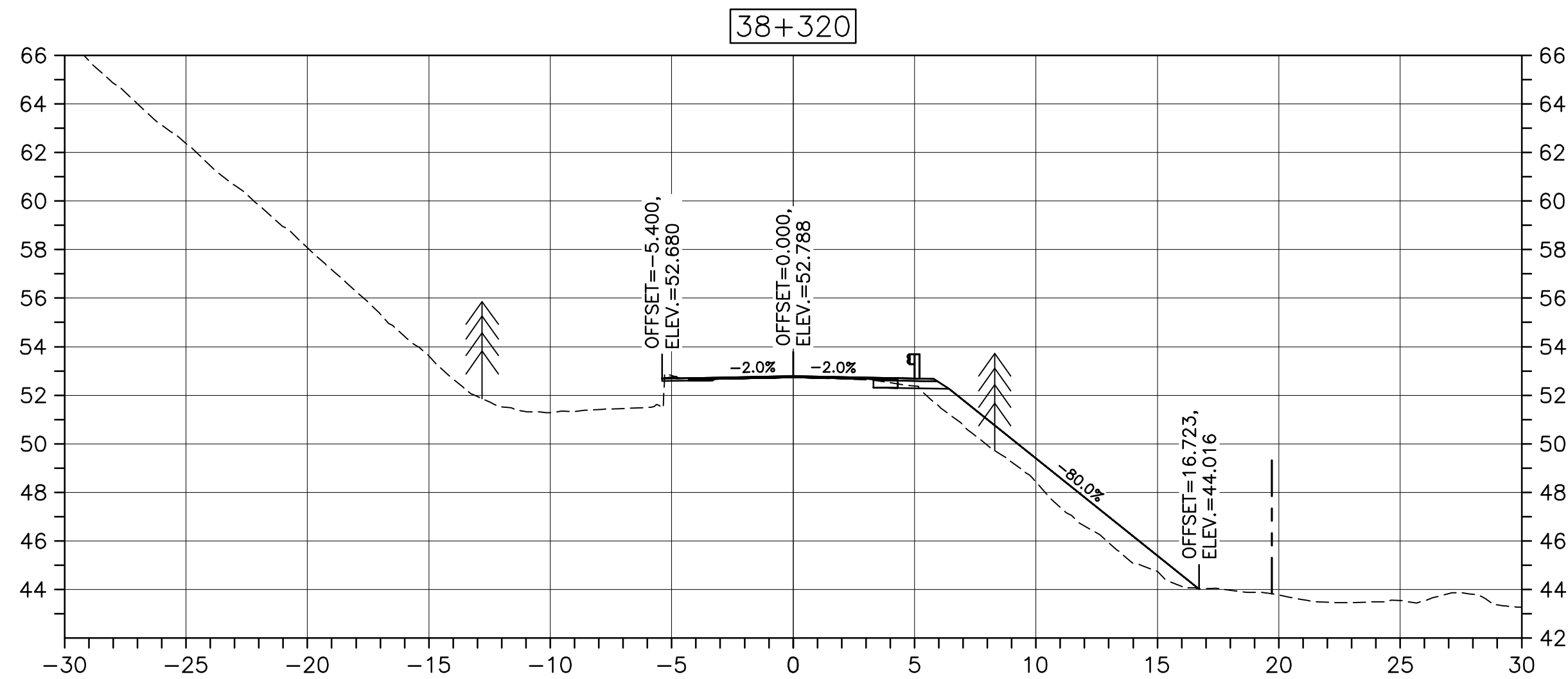
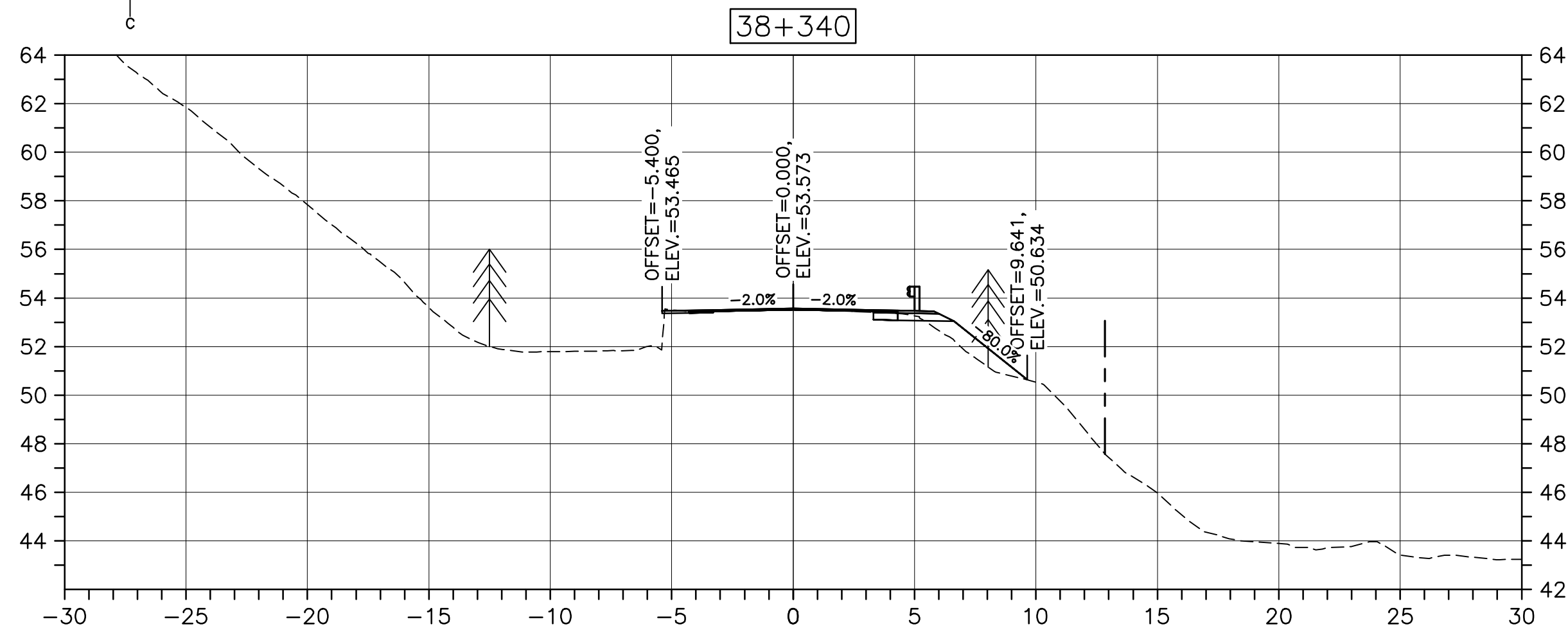
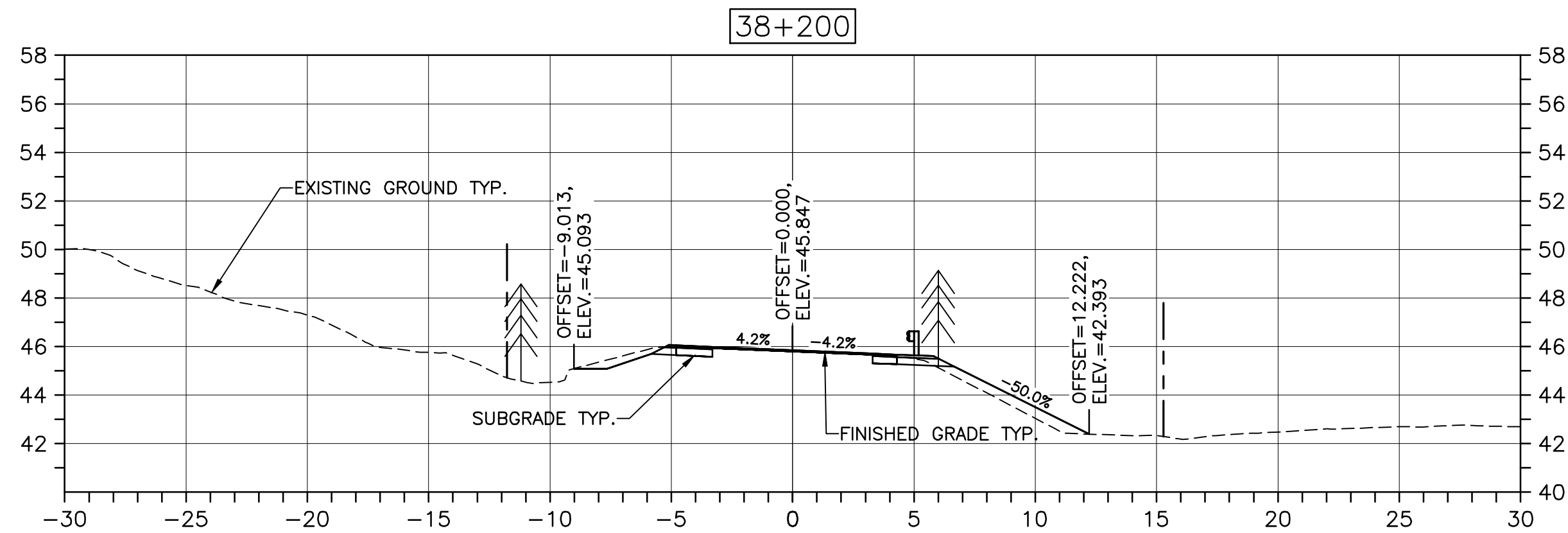
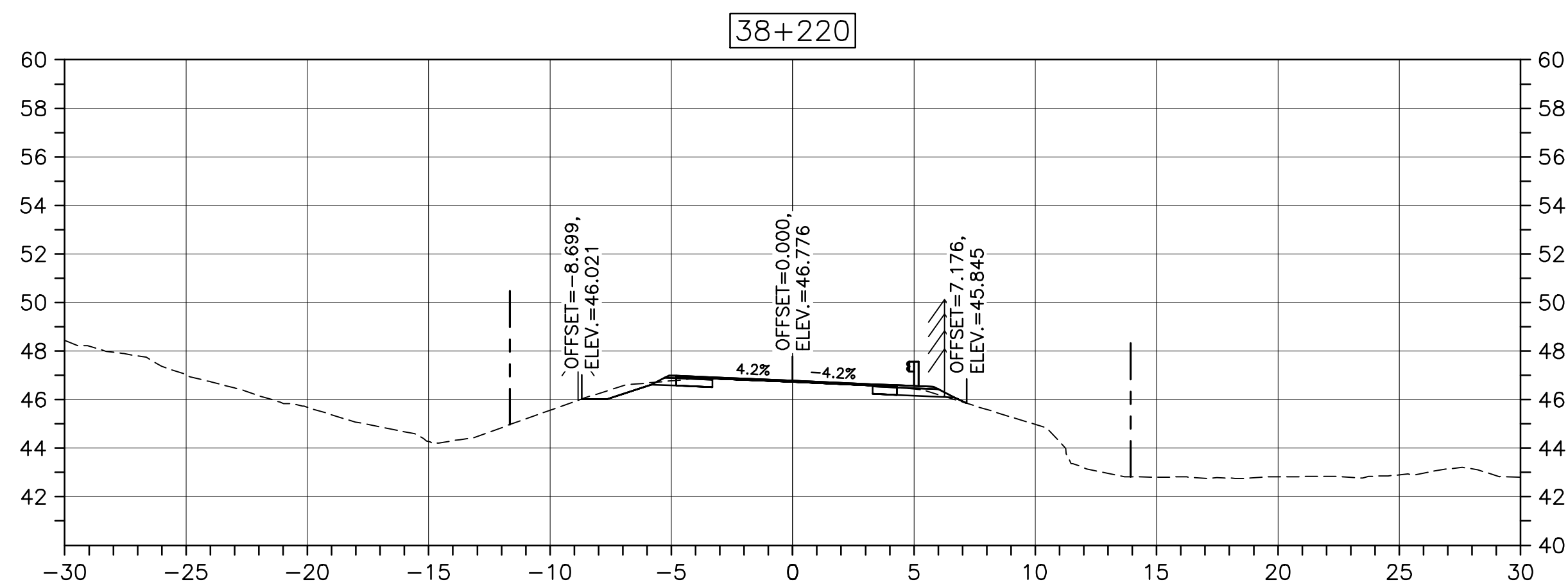
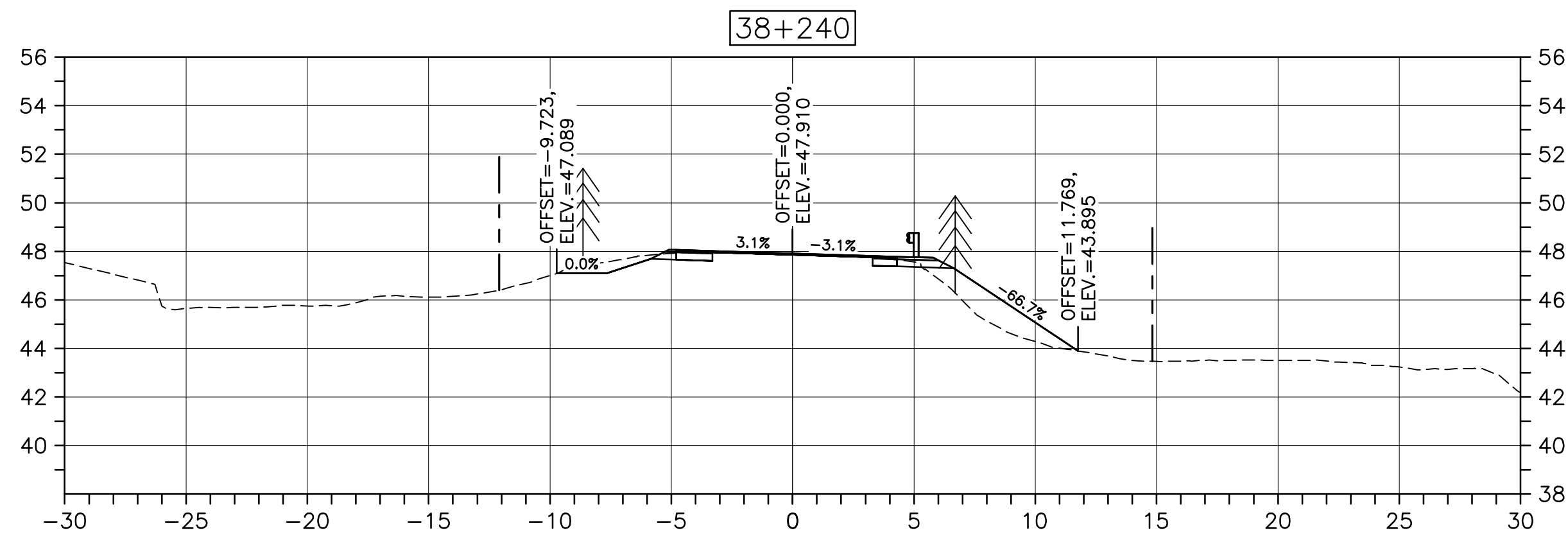
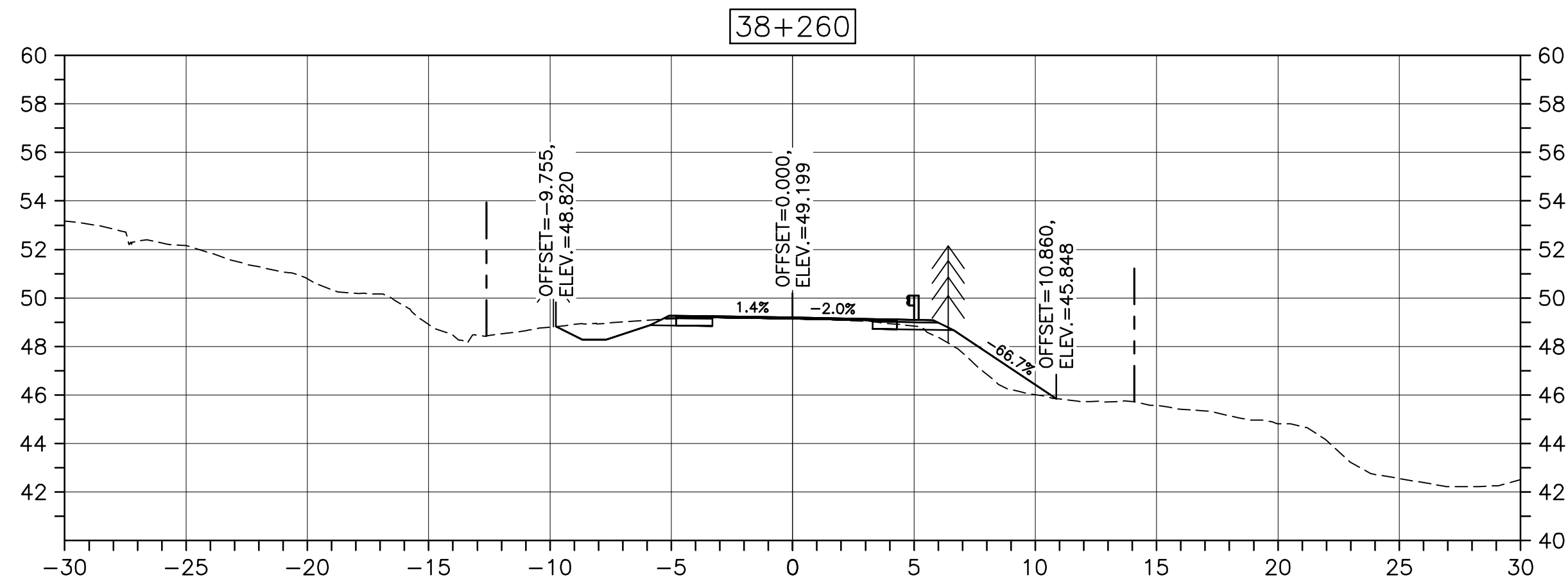
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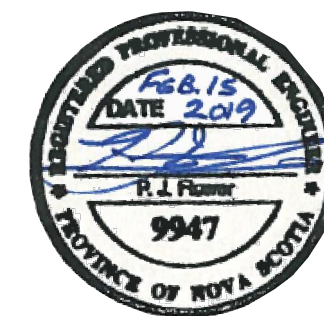
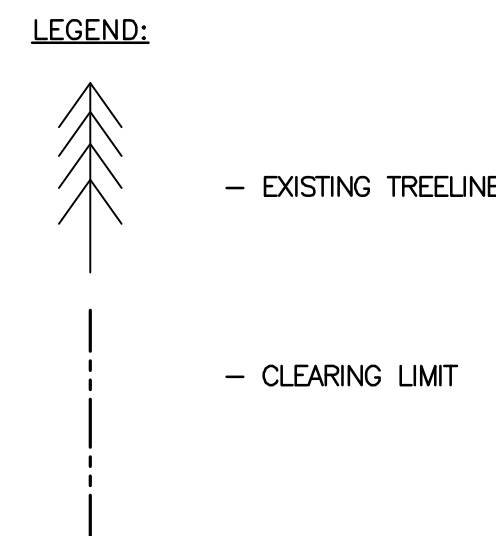
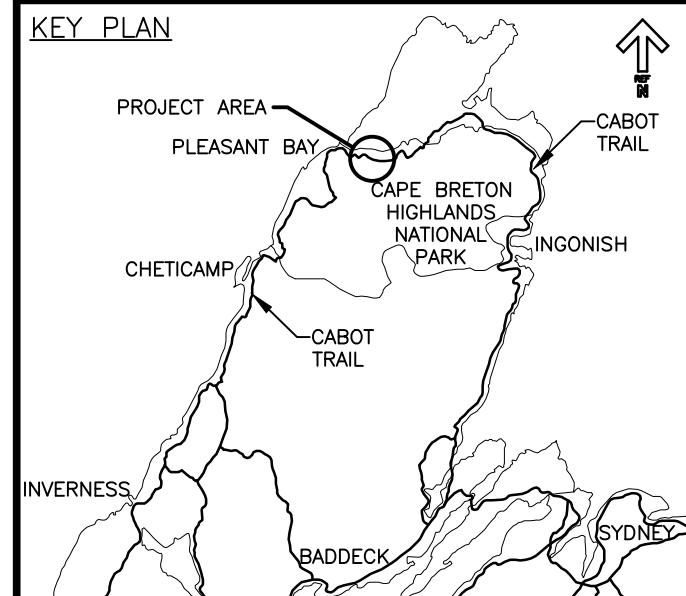
C-69

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PWGSC A1 (2004)



CROSS SECTIONS
SCALE: 1:200
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project project

CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing dessin

DESIGN SECTIONS

designed DSC	conqu
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approved RMB	approuvé
date FEB. 15, 2019	

Tender Soumission
PCA Project Manager Administrateur de projets PCA

project number no. du projet

1114

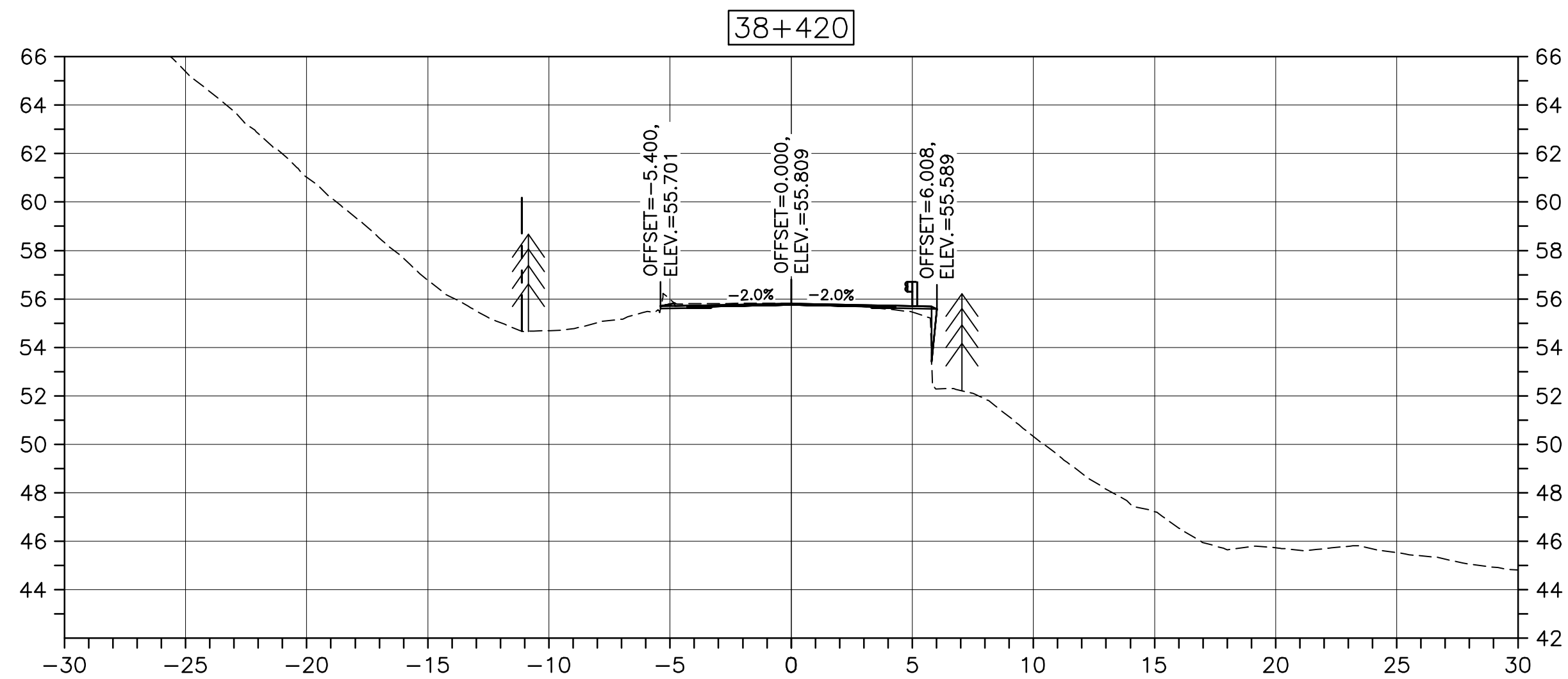
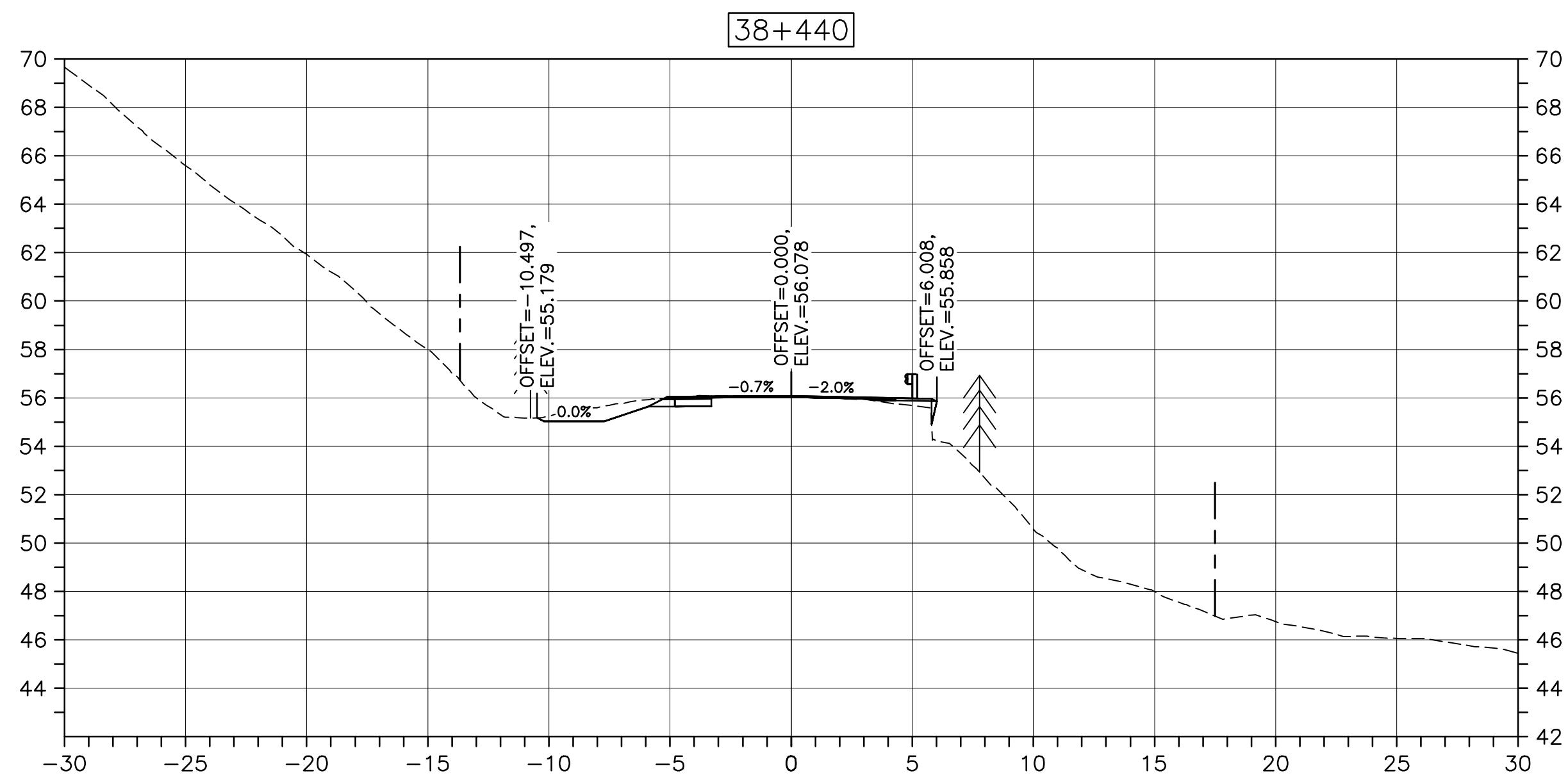
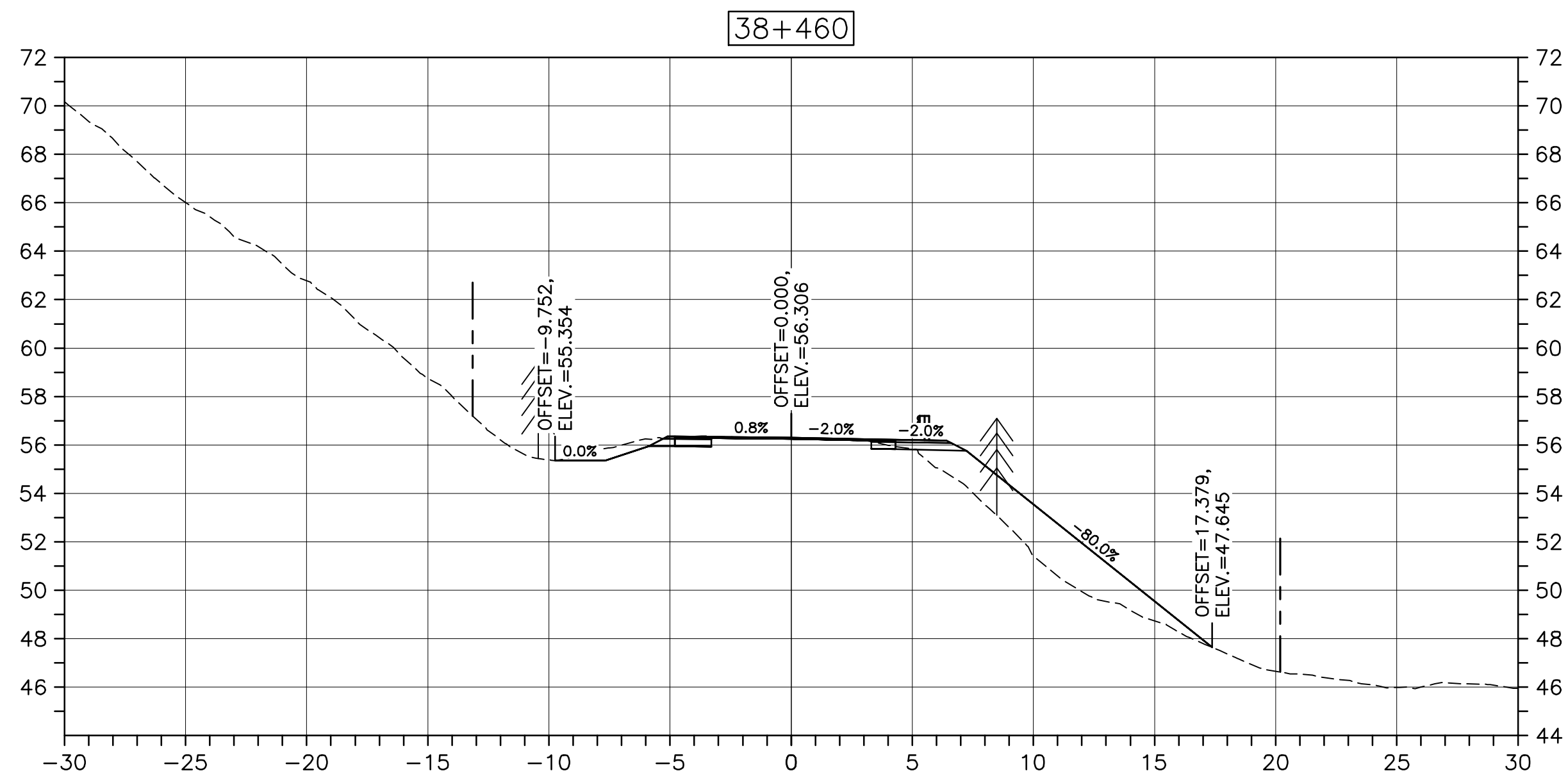
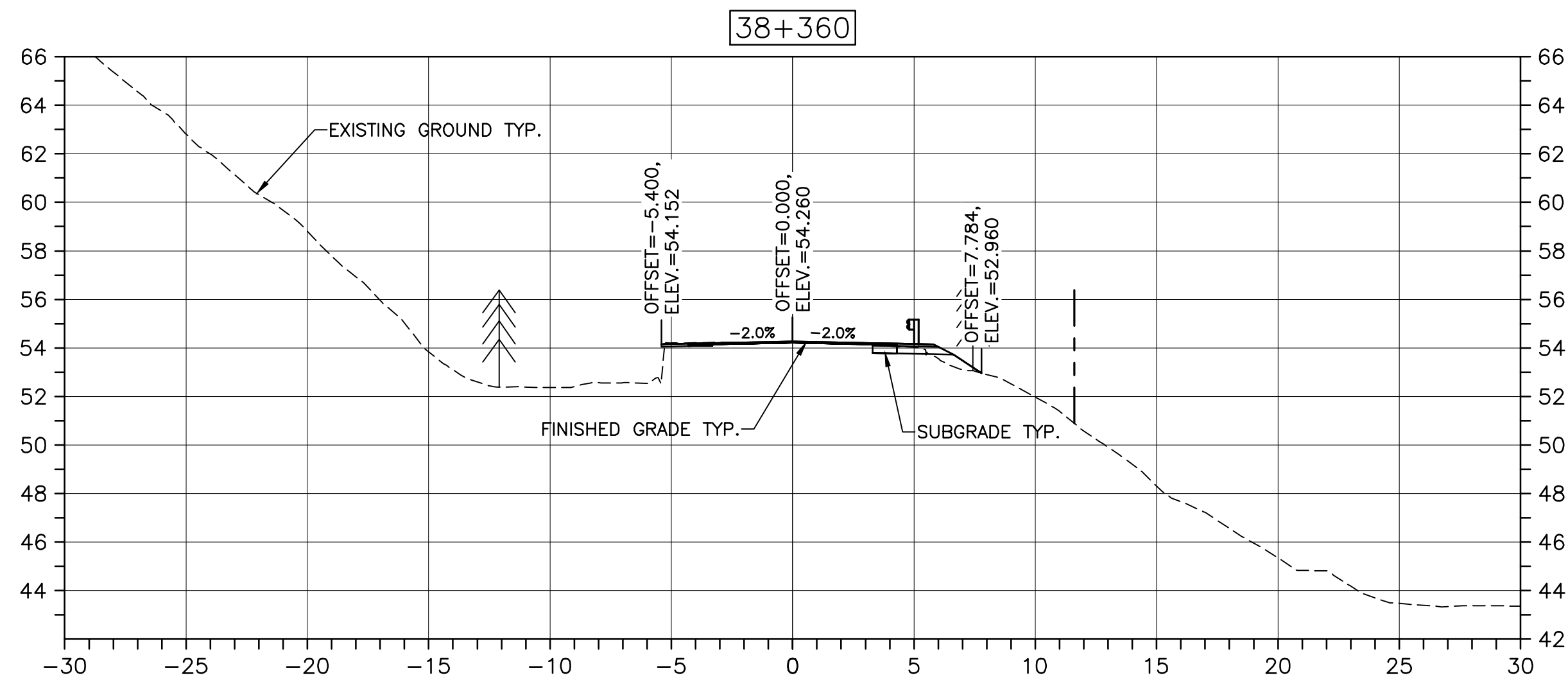
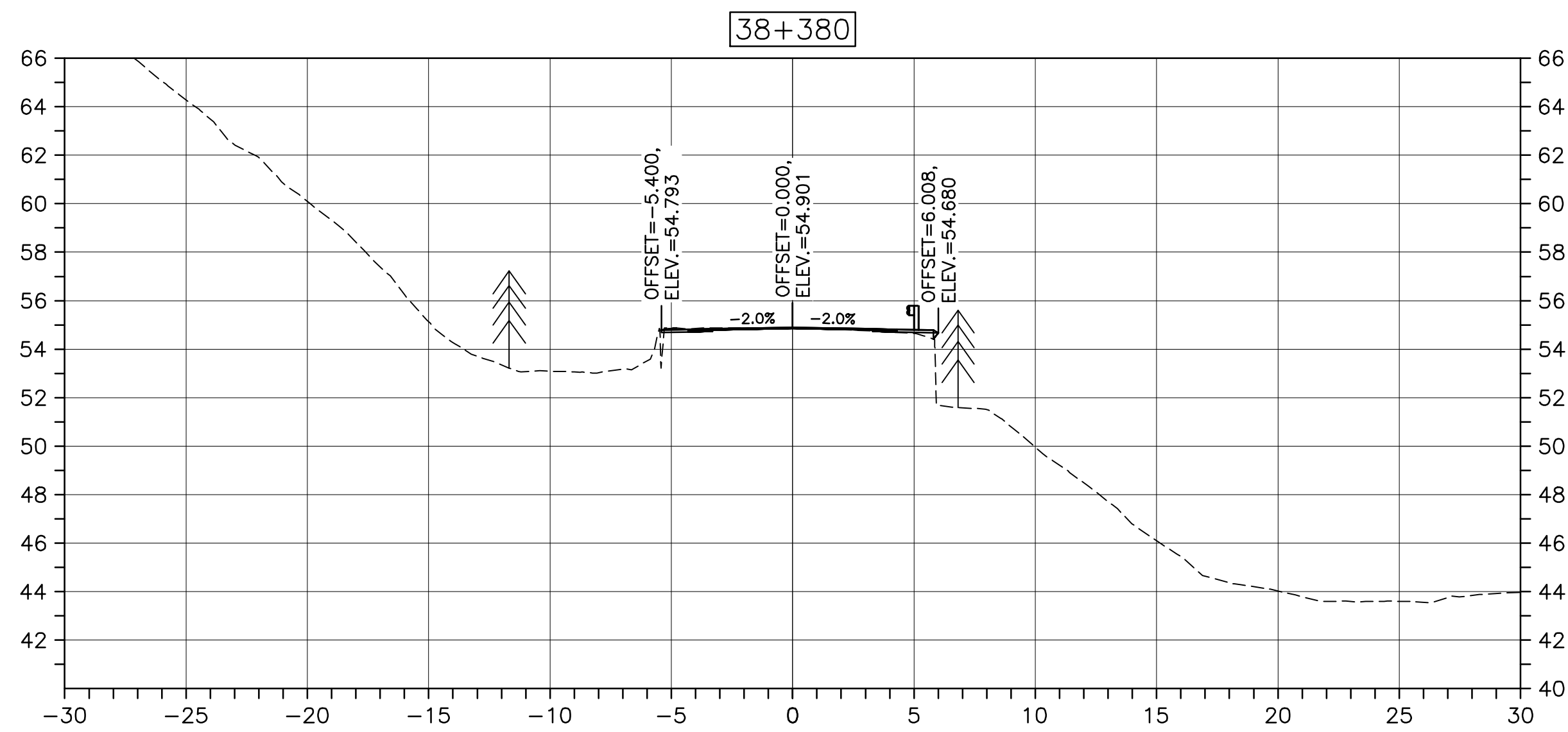
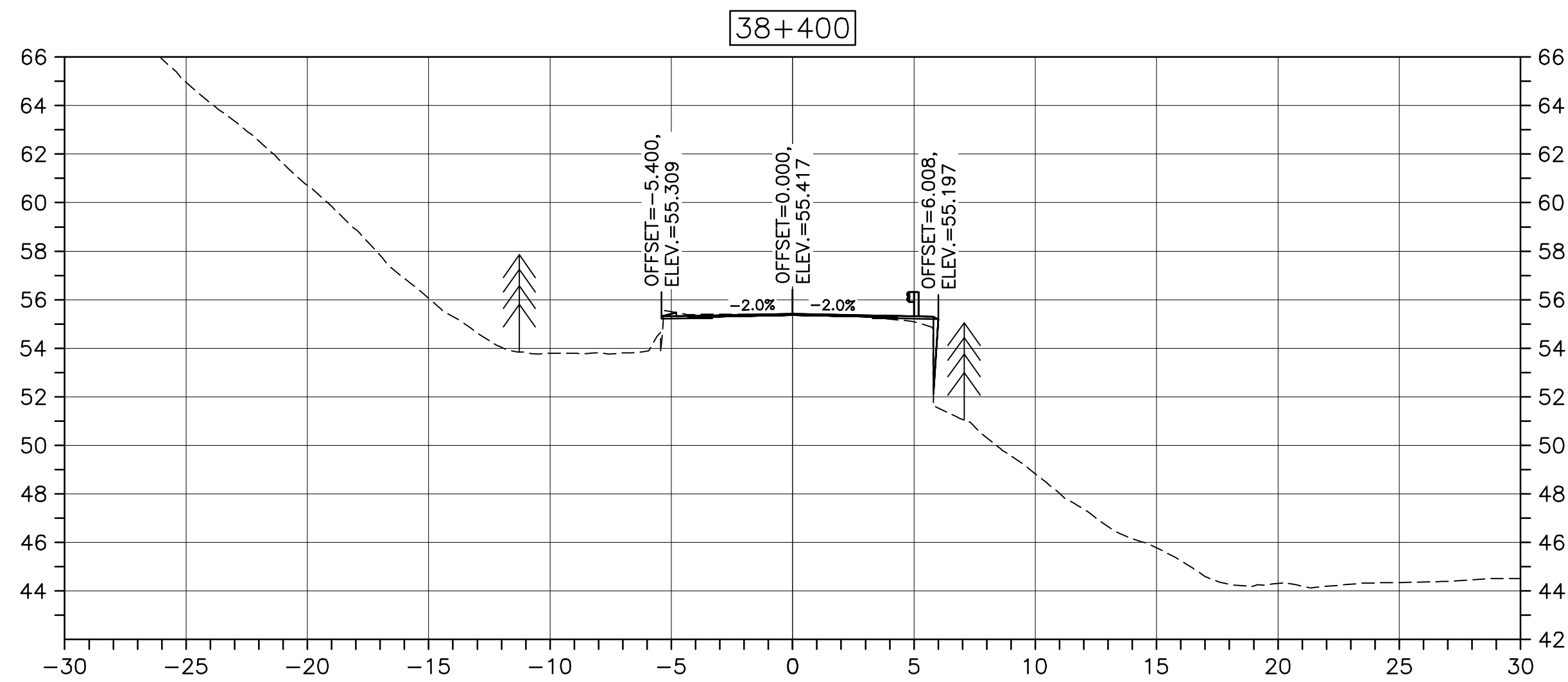
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C-70

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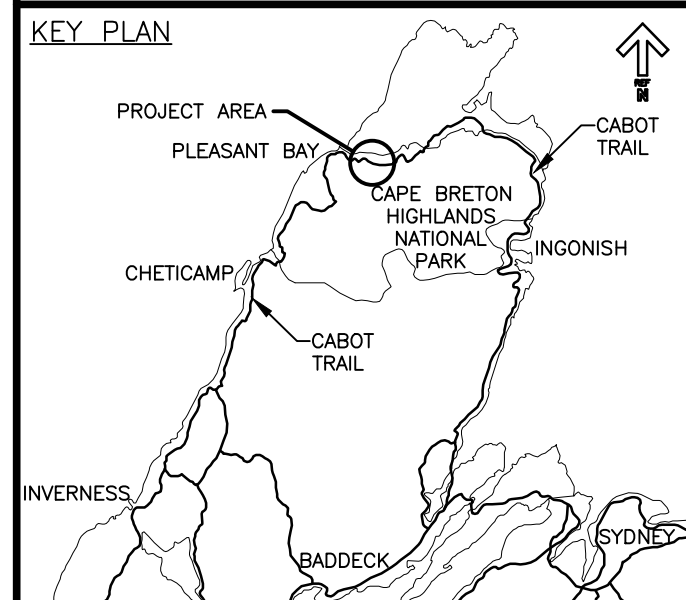
PW50C A1 (2004)



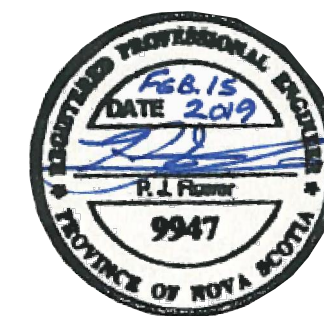
CROSS SECTIONS
SCALE: 1:200
0m 5m 10m 15m 20m 25m



Parks Canada



LEGEND:
EXISTING TREELINE
CLEARING LIMIT



0	ISSUED FOR TENDER	02/15 2019
revisions		date

project

CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing

DESIGN SECTIONS

designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	

Tender
PCA Project Manager

Soumission
Administrateur de projets PCA

project number

1114

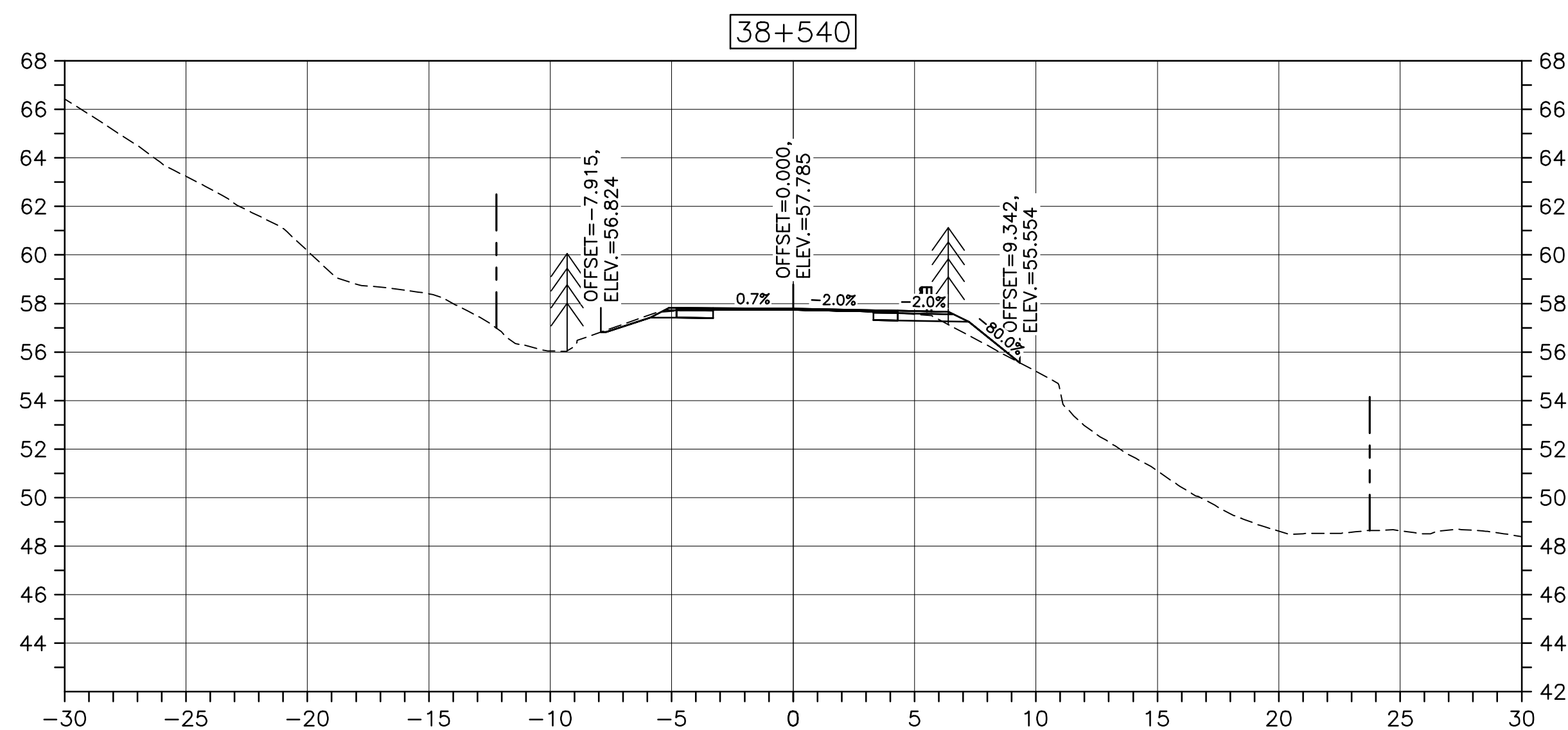
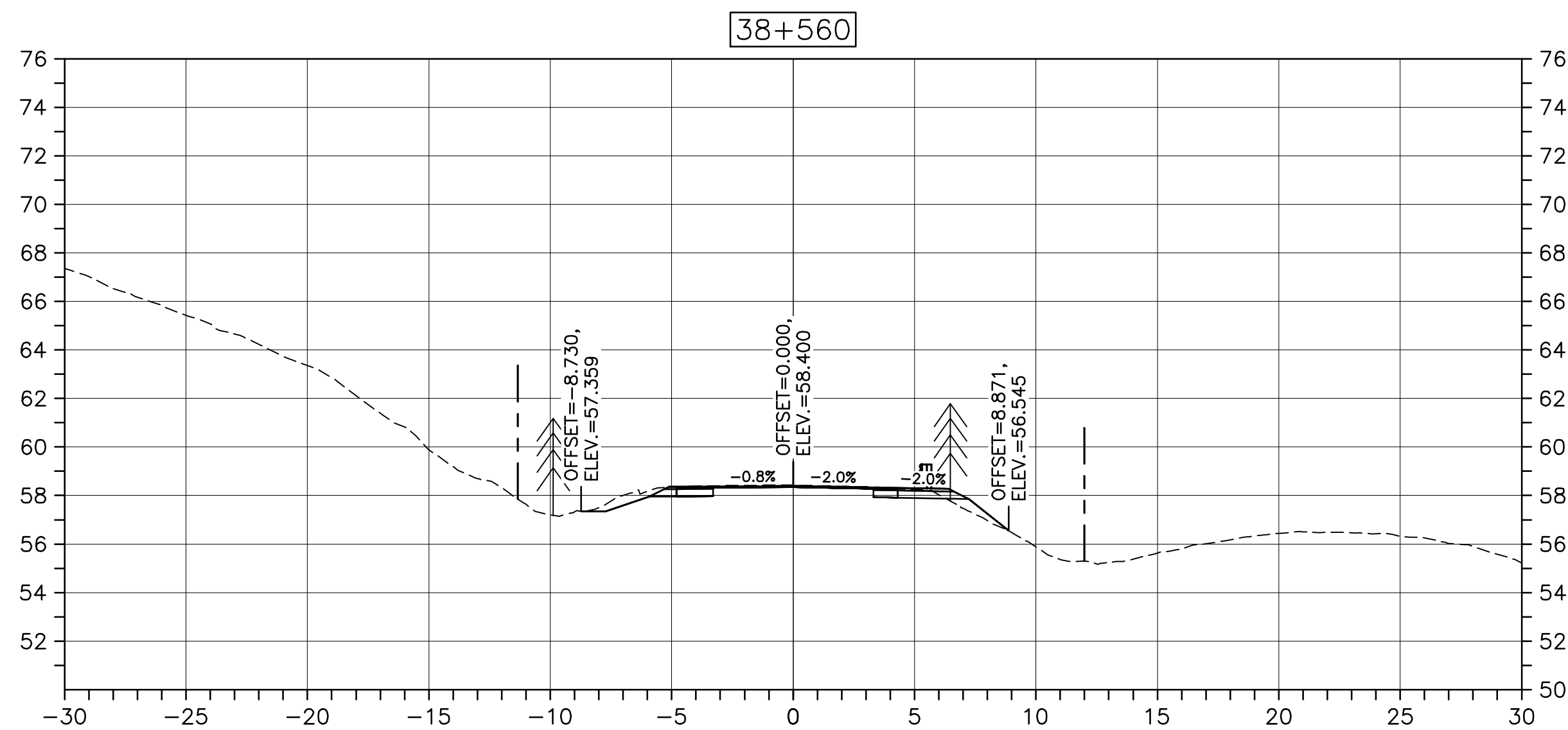
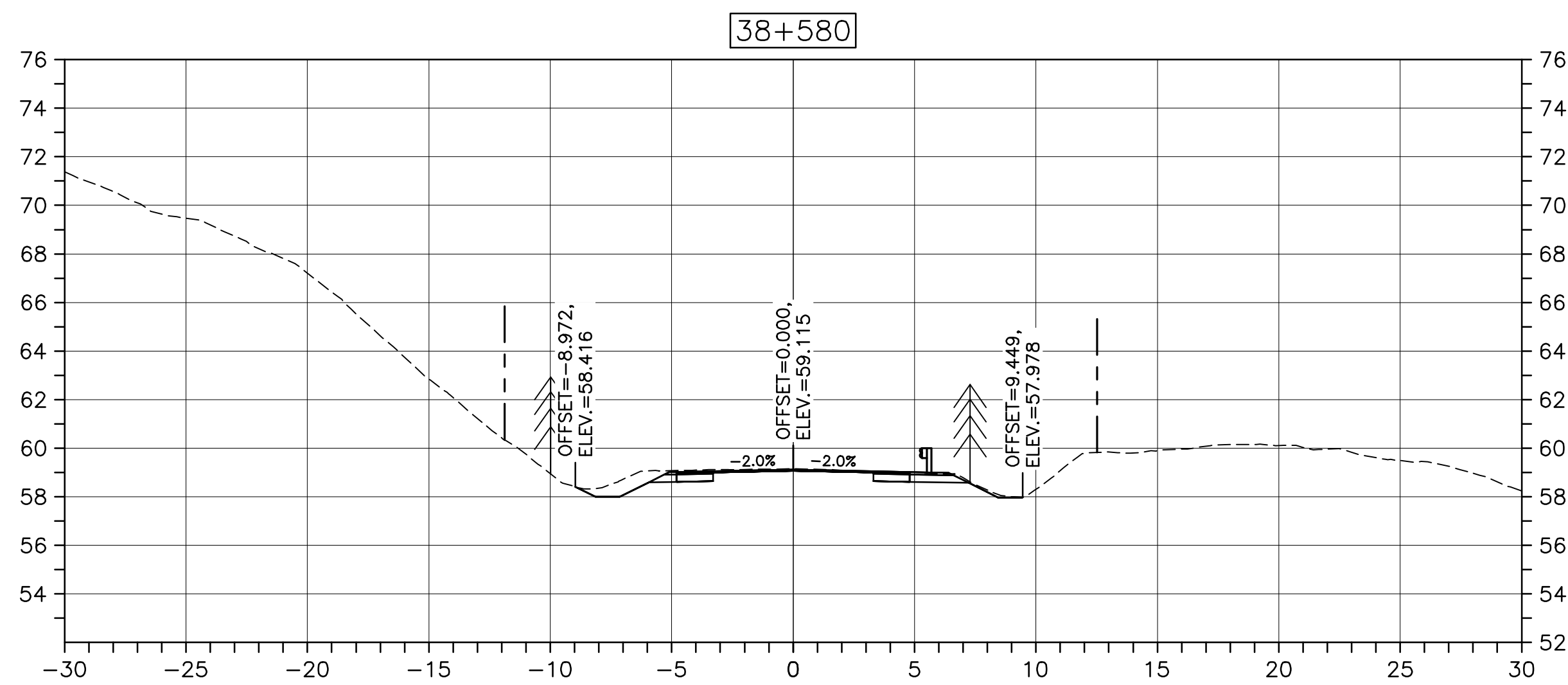
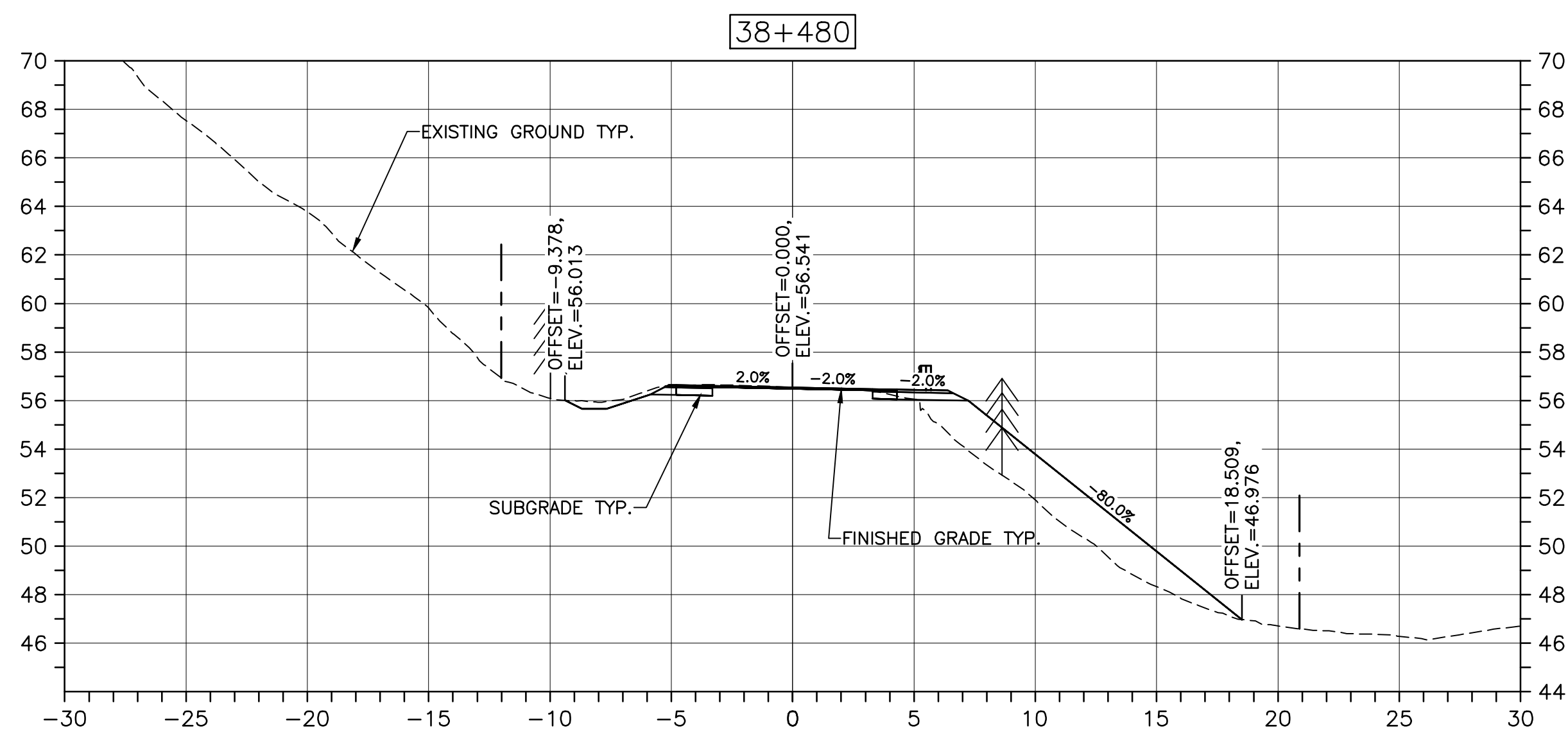
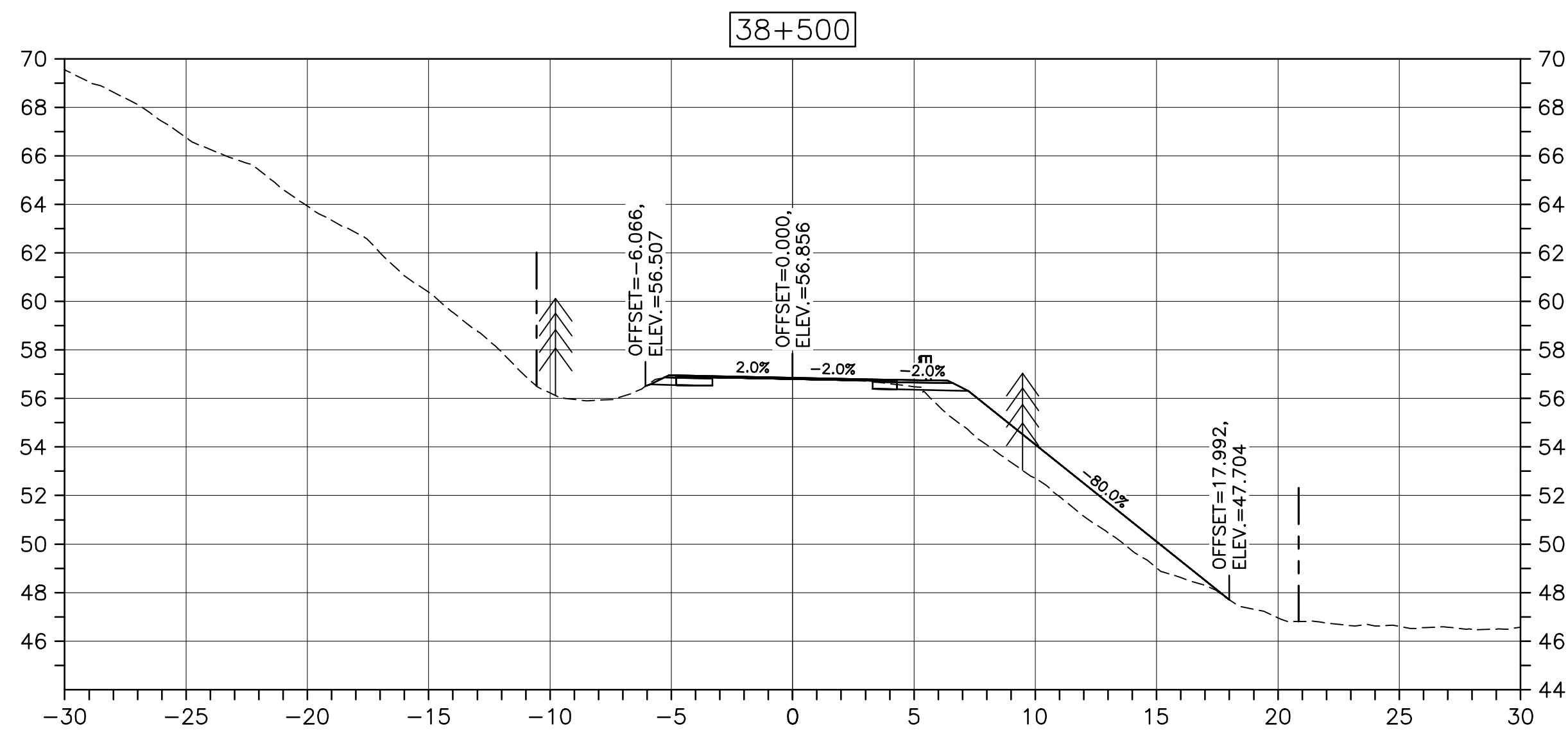
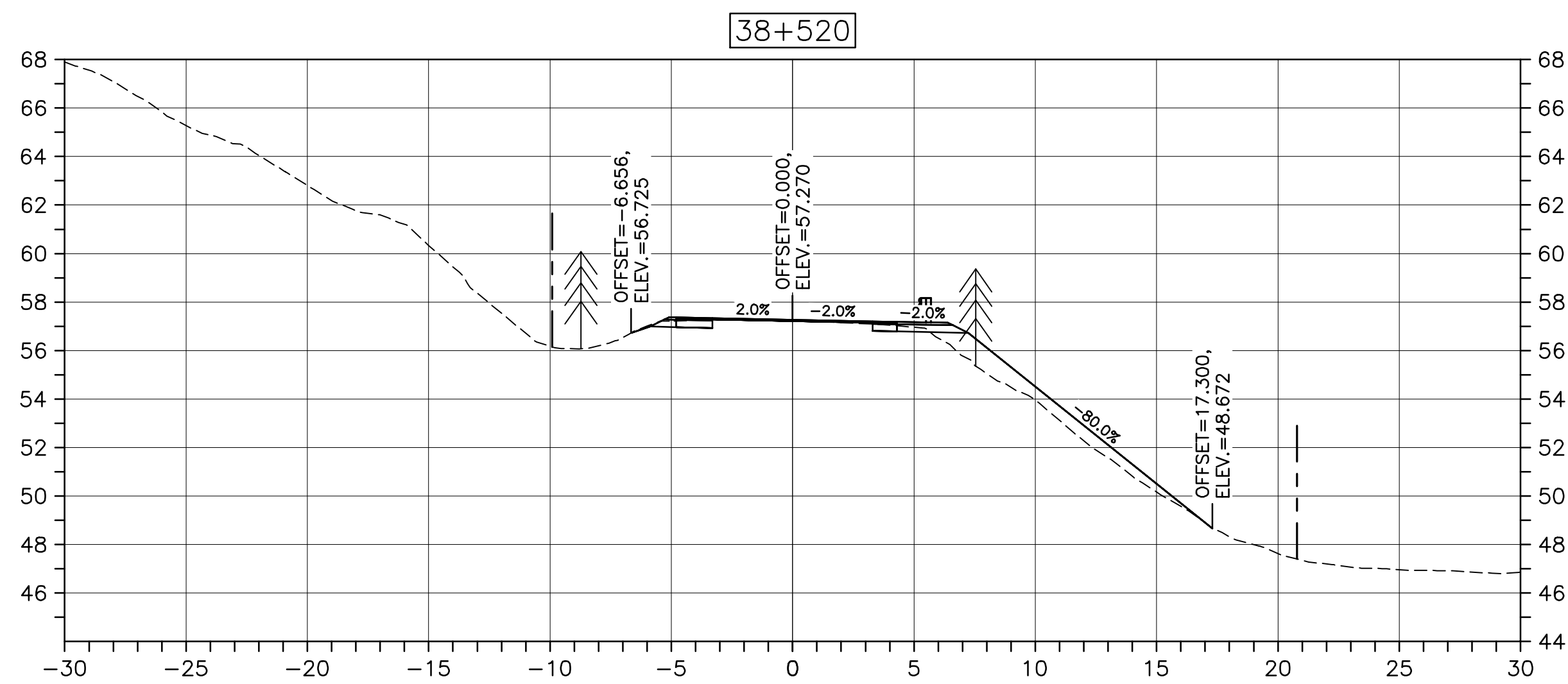
drawing no.

C-71

E-DRM/GDD-E: NOT IN SYSTEM

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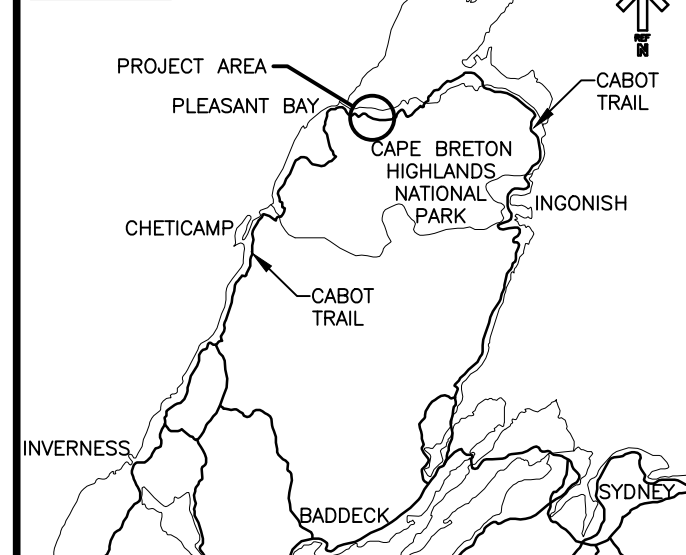
CROSS SECTIONS

SCALE: 1:200

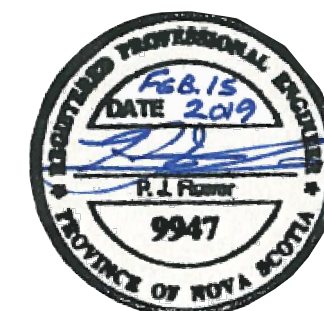
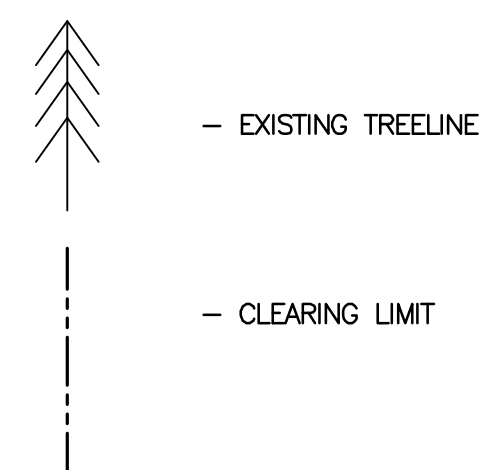


Parks Canada

KEY PLAN



LEGEND:



0	ISSUED FOR TENDER	02/15 2019
revisions		date

project	projet
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CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing	dessin
---------	--------

DESIGN SECTIONS

designed	DSC	conçu
date	MAY. 31, 2018	
drawn	JLD/CCP	dessiné
date	MAY. 31, 2018	
approved	RMB	approuvé
date	FEB. 15, 2019	

Tender	Soumission
PCA Project Manager	Administrateur de projets PCA

project number	no. du projet
----------------	---------------

1114

drawing no.	no. du dessin
-------------	---------------

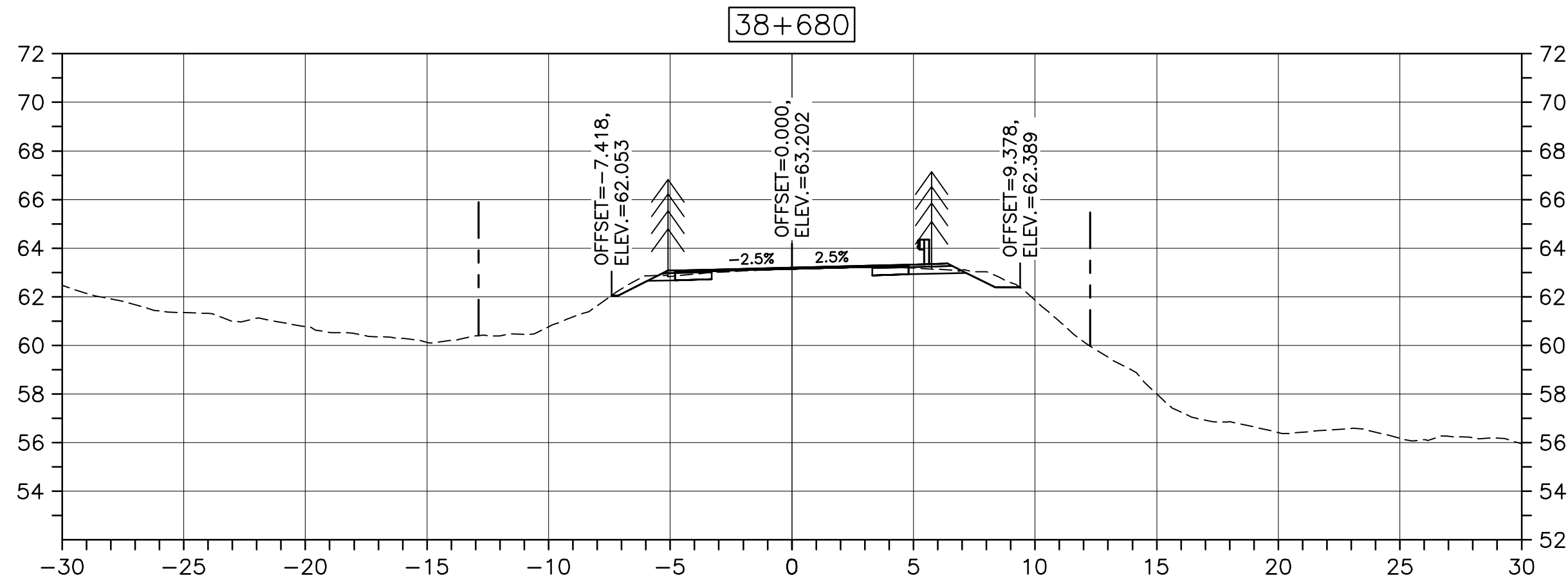
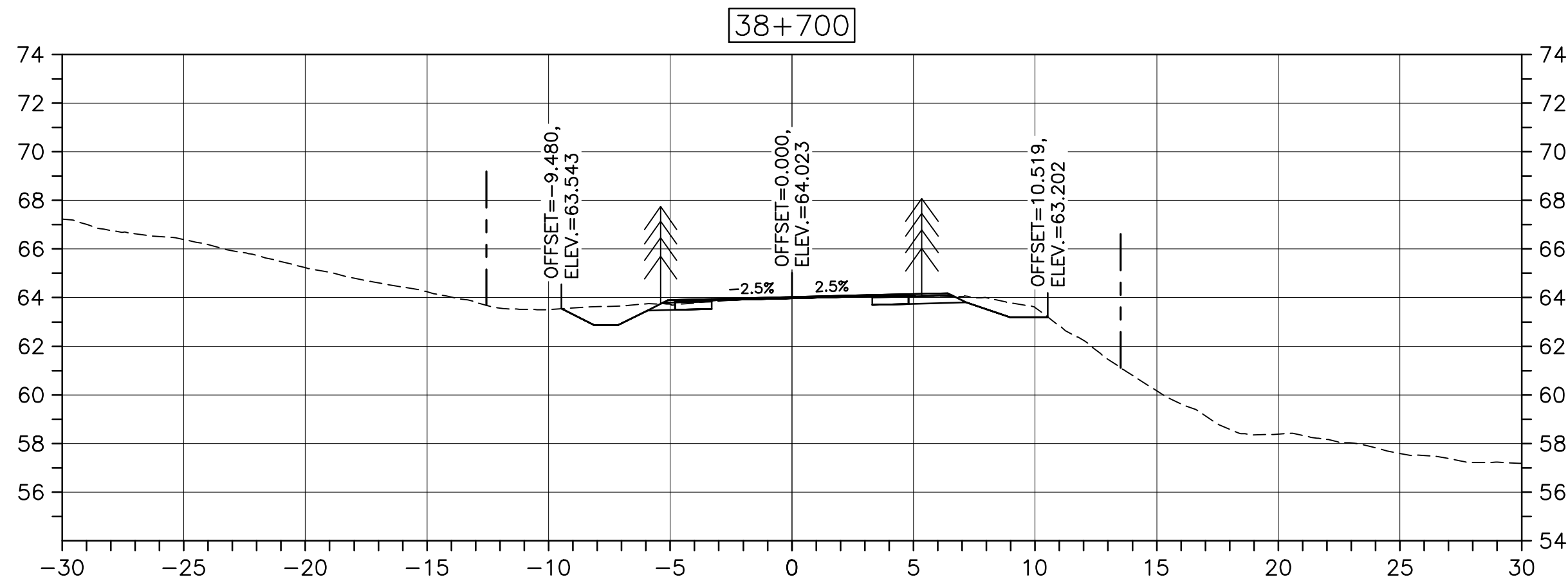
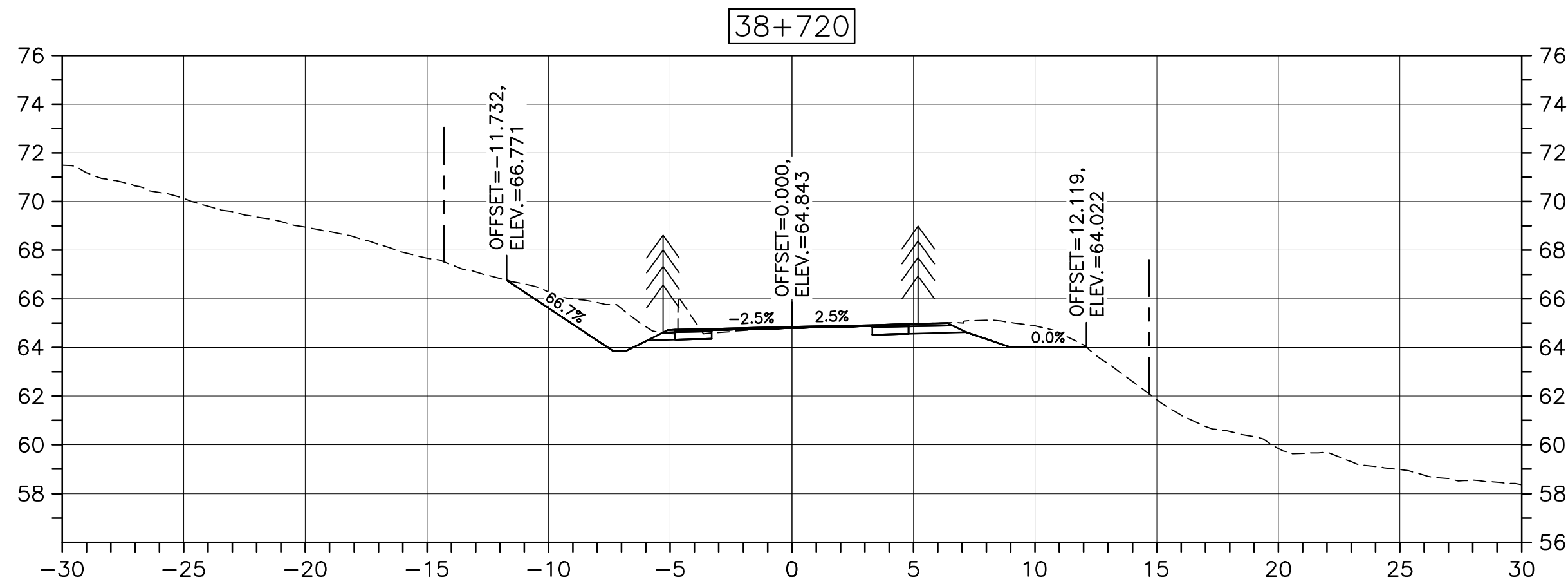
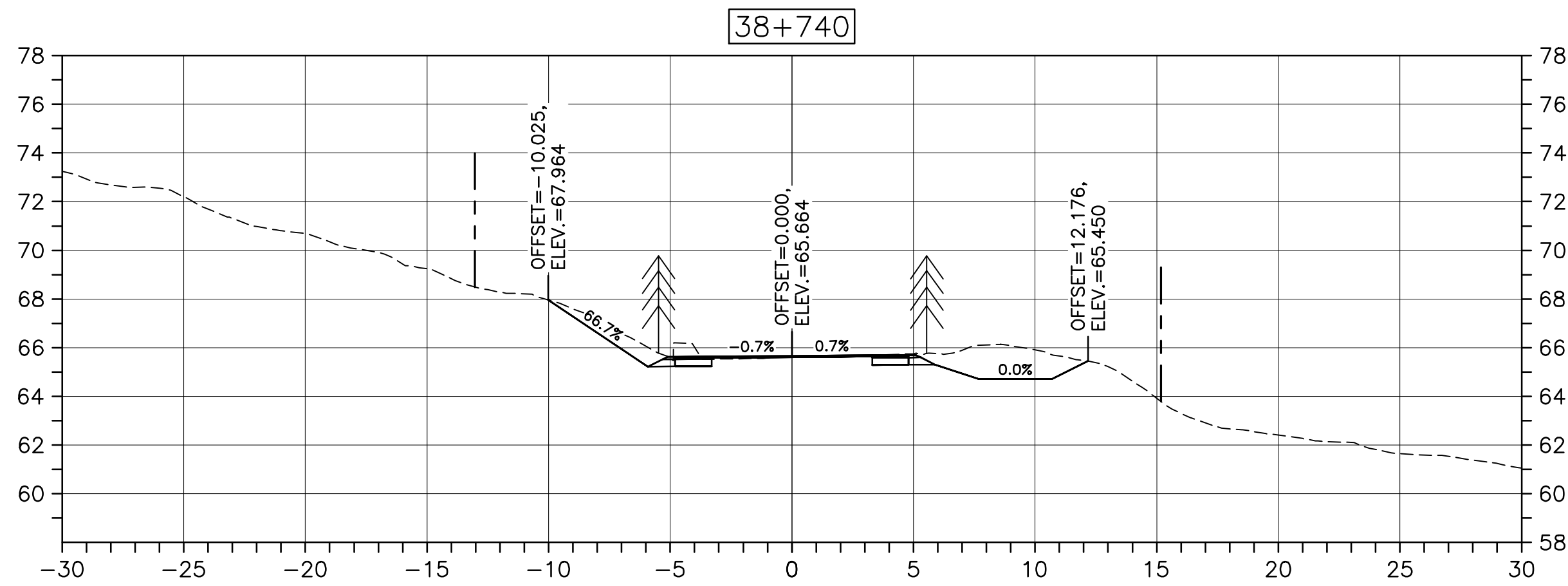
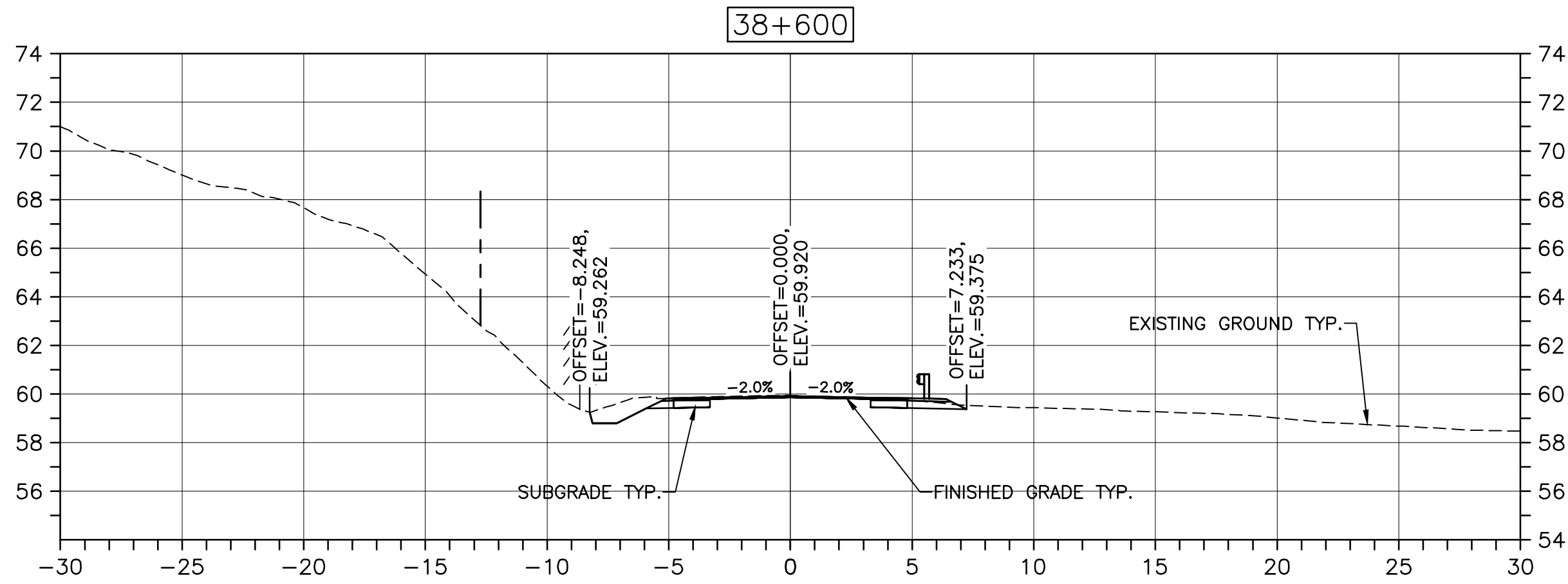
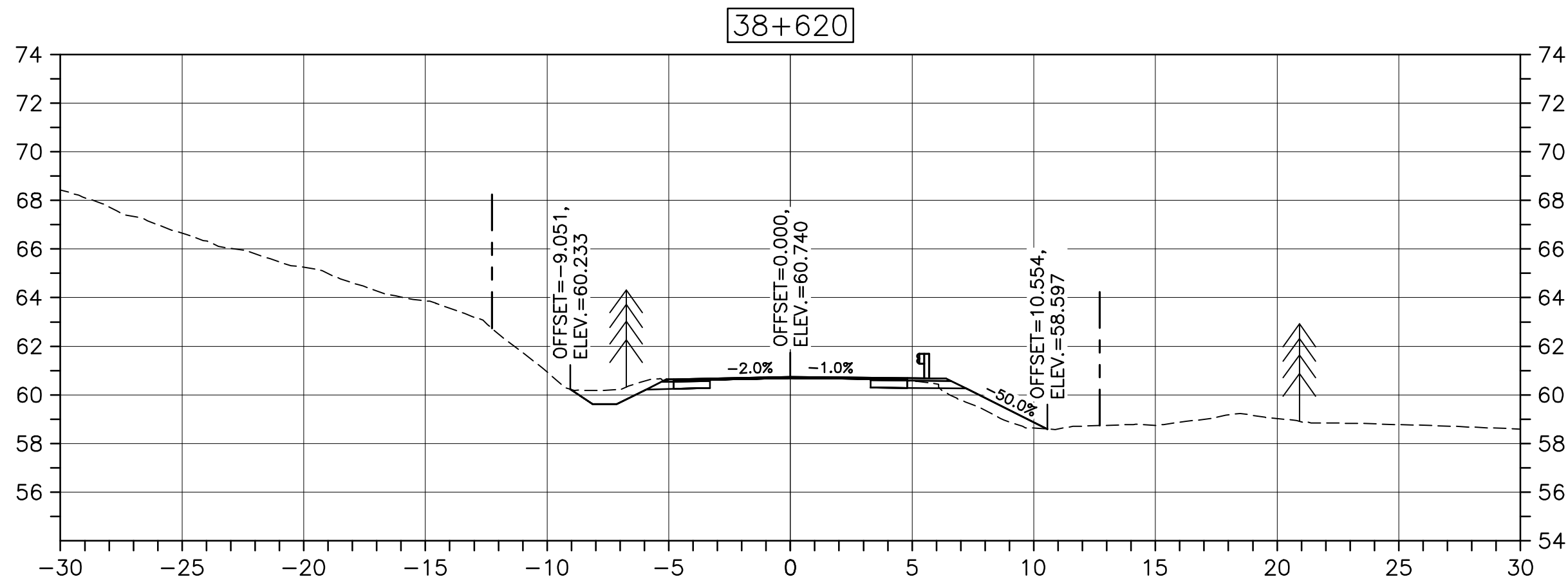
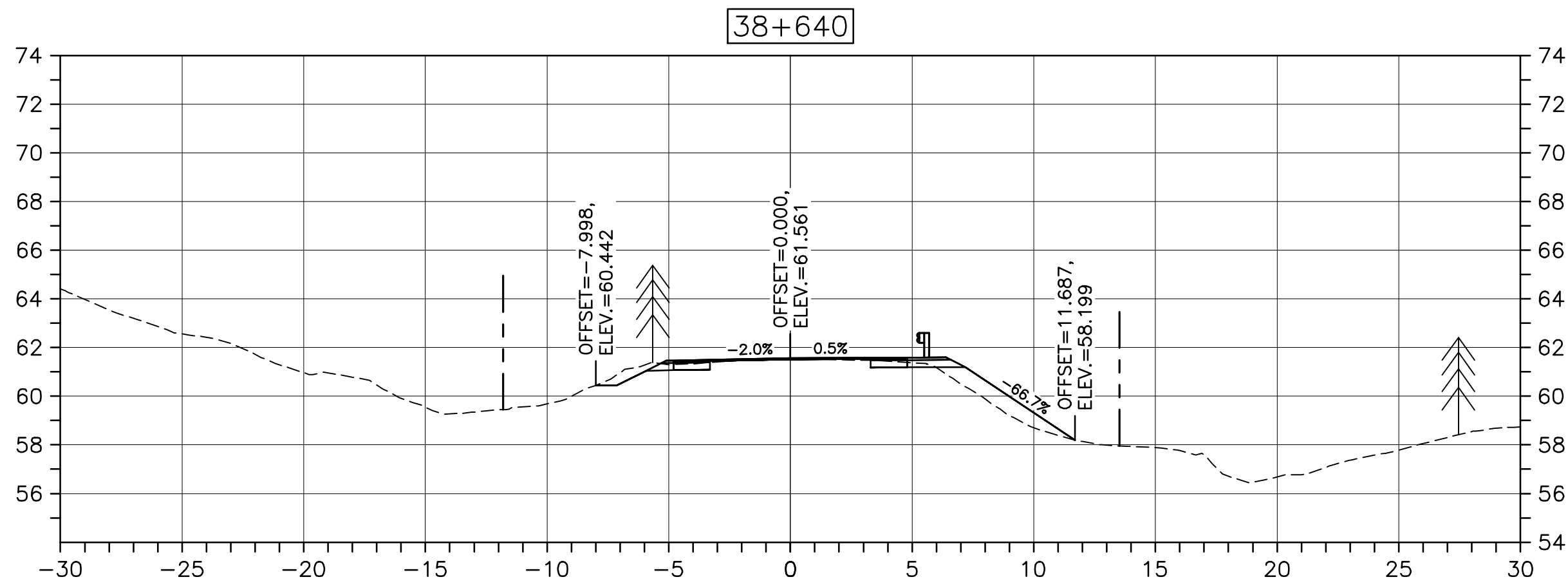
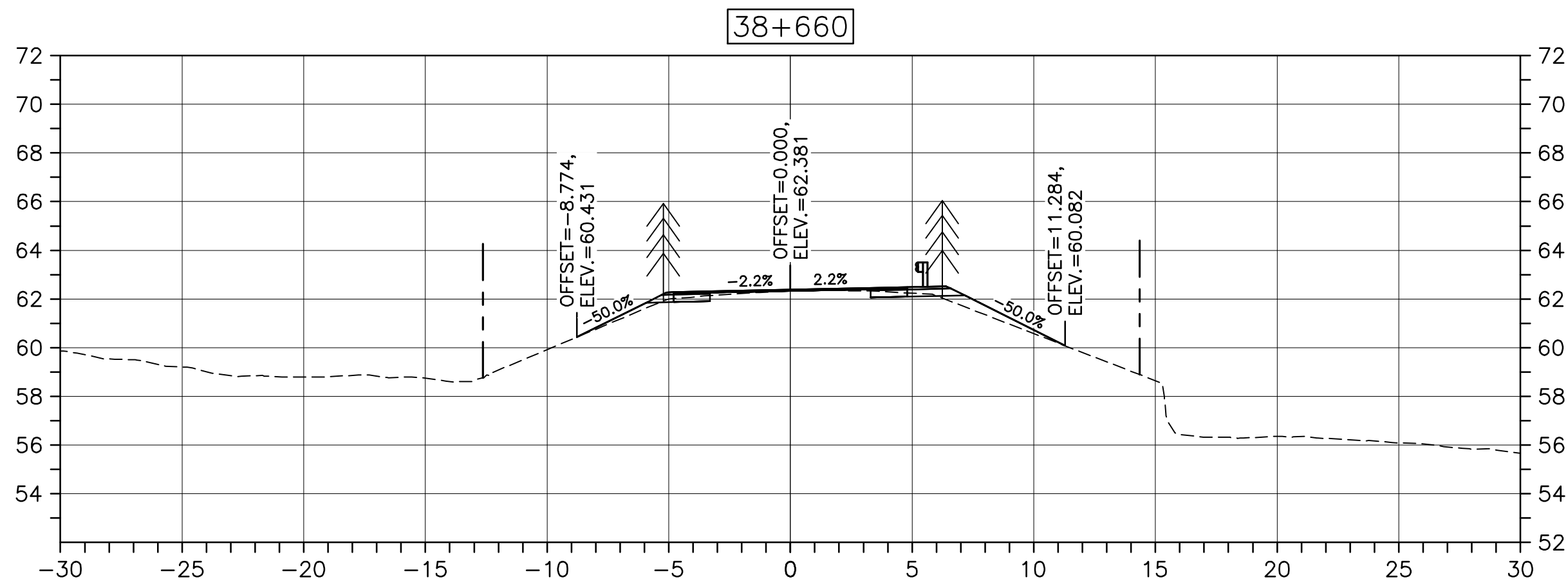
C-72

E-DRM/GDD-E: NOT IN SYSTEM

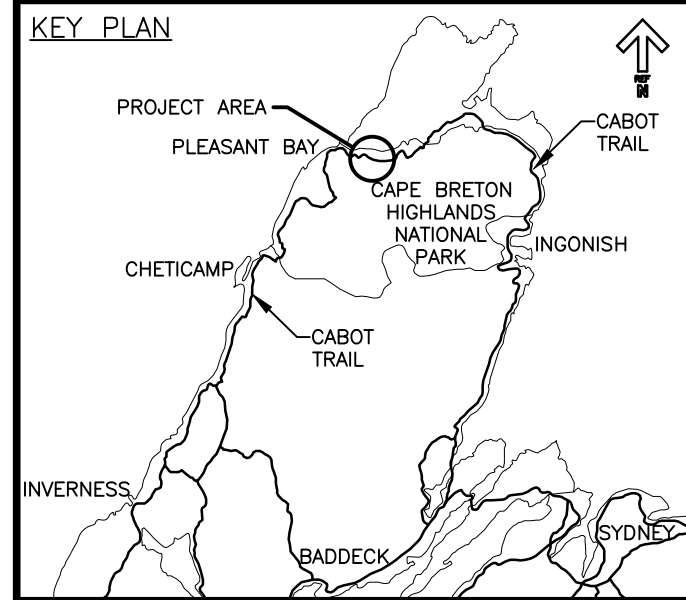
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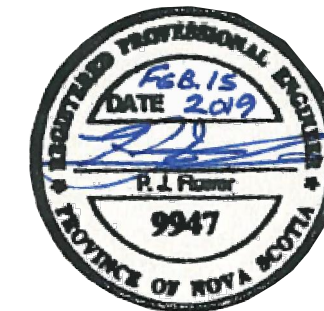
0 10 20mm 40 60 80 100 120 140 160 180 200mm



CROSS SECTIONS
SCALE: 1:200
0m 5m 10m 15m 20m 25m



LEGEND:
- EXISTING TREELINE
- CLEARING LIMIT



0	ISSUED FOR TENDER	02/15/2019
revisions		date
project		project

CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing dessin

DESIGN SECTIONS

designed DSC	conçu
date MAY. 31, 2018	
drawn JLD/CCP	dessiné
date MAY. 31, 2018	
approved RMB	approuvé
date FEB. 15, 2019	

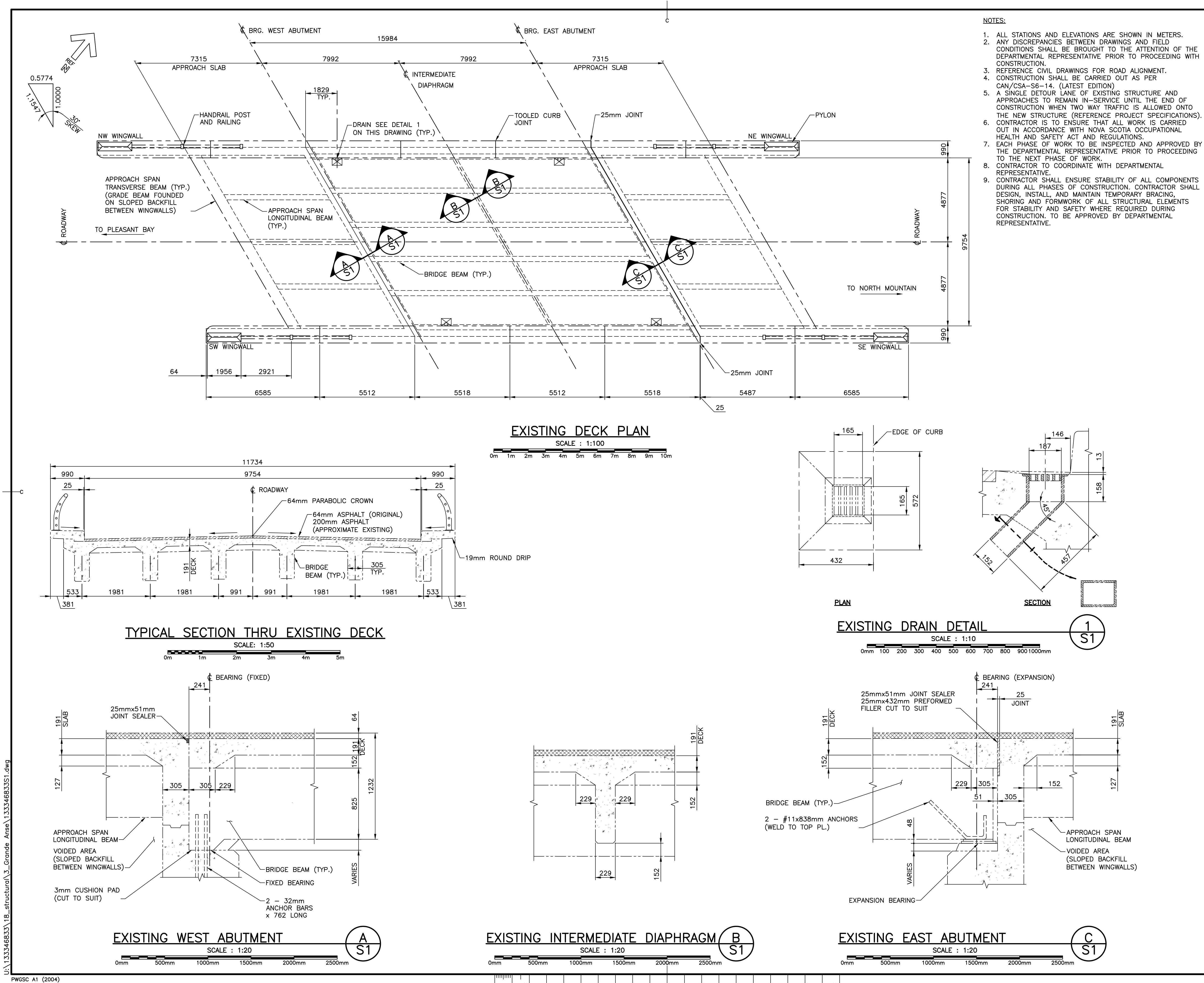
Tender PCA Project Manager
Soumission Administrateur de projets PCA

project number no. du projet

1114

drawing no. no. du dessin

C-73



Parks Canada

KEY PLAN

Stantec

NOTES:

1. EXISTING DIMENSIONS ARE CONVERTED TO METRIC UNITS FROM PARKS CANADA ORIGINAL IMPERIAL CONSTRUCTION DRAWINGS. ACTUAL DIMENSIONS MAY VARY.

2. A SET OF ORIGINAL CONSTRUCTION DRAWINGS ARE INCLUDED AS AN APPENDIX IN THE CONTRACT SPECIFICATIONS.

3. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS UNLESS NOTED OTHERWISE.

4. COVER TO ALL NEW REINFORCING STEEL TO BE 70 mm UNLESS NOTED OTHERWISE.

0	ISSUED FOR TENDER	02/15 2019
revisions		date
project		projet

CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing

dessin

GRANDE ANSE RIVER
BRIDGE REHABILITATION
EXISTING BRIDGE PLAN
SECTIONS AND DETAILS

designed	GL	conçu
date	MAY. 31, 2018	
drawn	CRM/LMC	dessiné
date	MAY. 31, 2018	
approved	ALB	approuvé
date	FEB. 15, 2019	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet

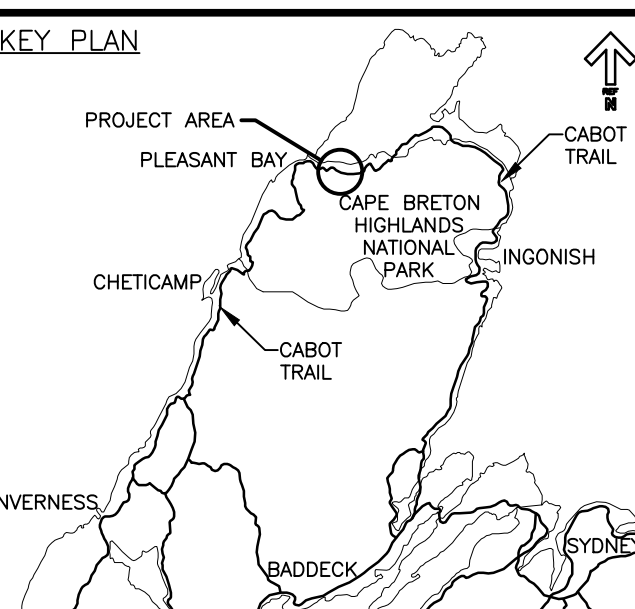
1114

drawing no.

S-1

no. du dessin

E-DRM/GDD-E: NOT IN SYSTEM



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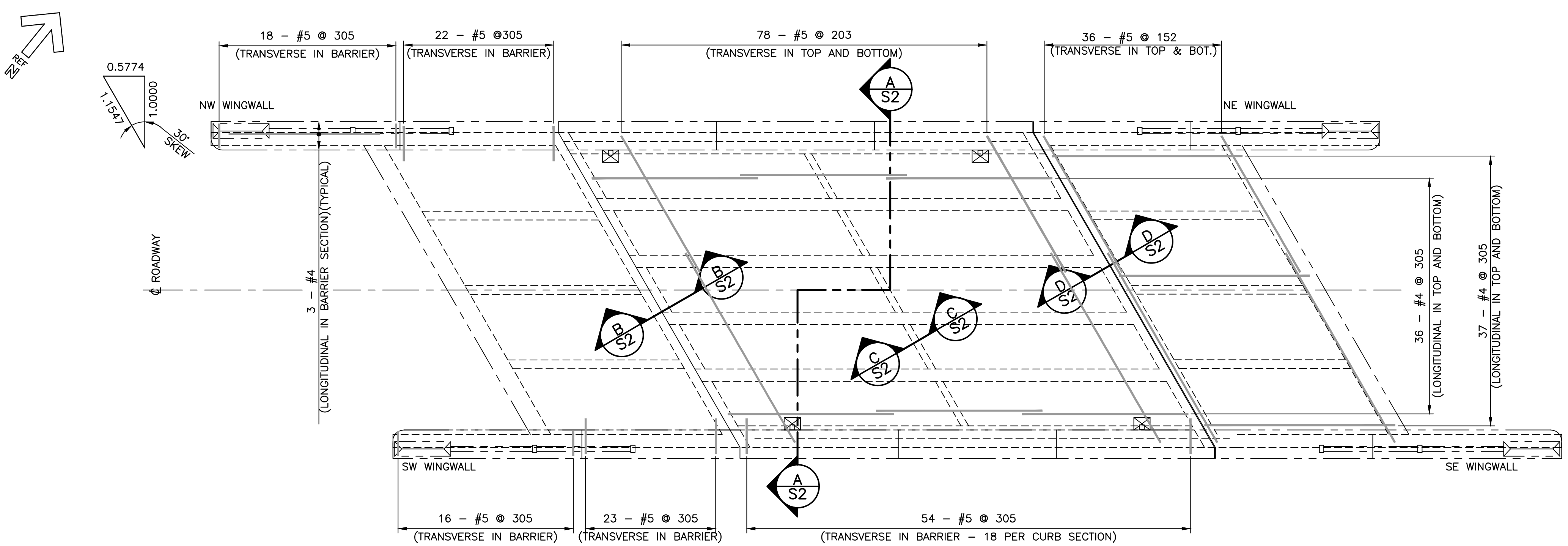


0	ISSUED FOR TENDER	02/15 2019
revisions		date

project CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

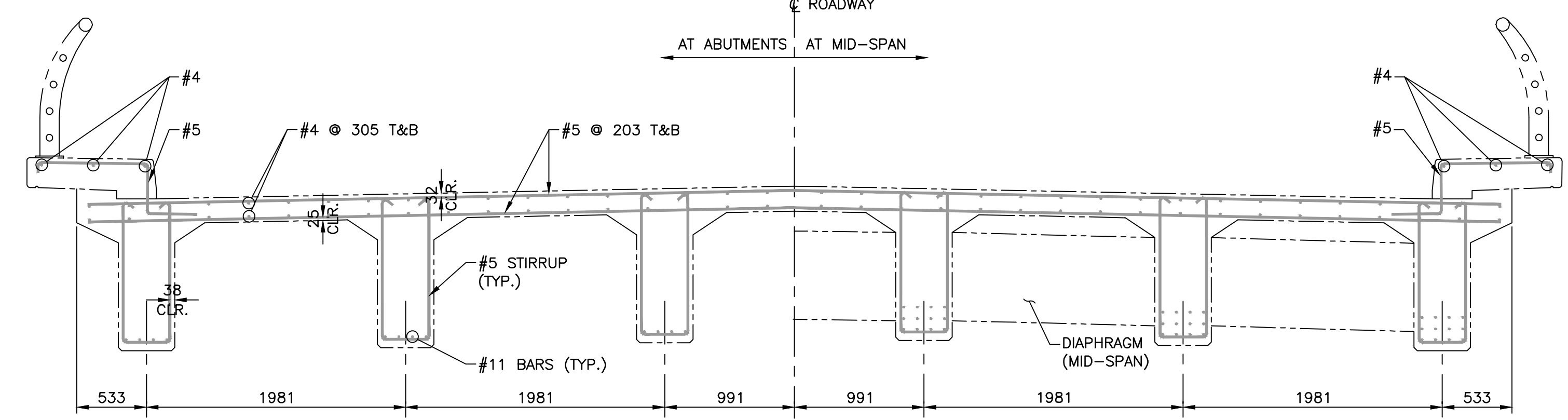
drawing design
**GRANDE ANSE RIVER
BRIDGE REHABILITATION
EXISTING BRIDGE DECK
REINFORCING PLAN
SECTIONS AND DETAILS**

designed	GL	conçu
date	MAY. 31, 2018	
drawn	CRM/LMC	dessiné
date	MAY. 31, 2018	
approved	ALB	approuvé
date	FEB. 15, 2019	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet
	1114	
drawing no.		no. du dessin
	S-2	



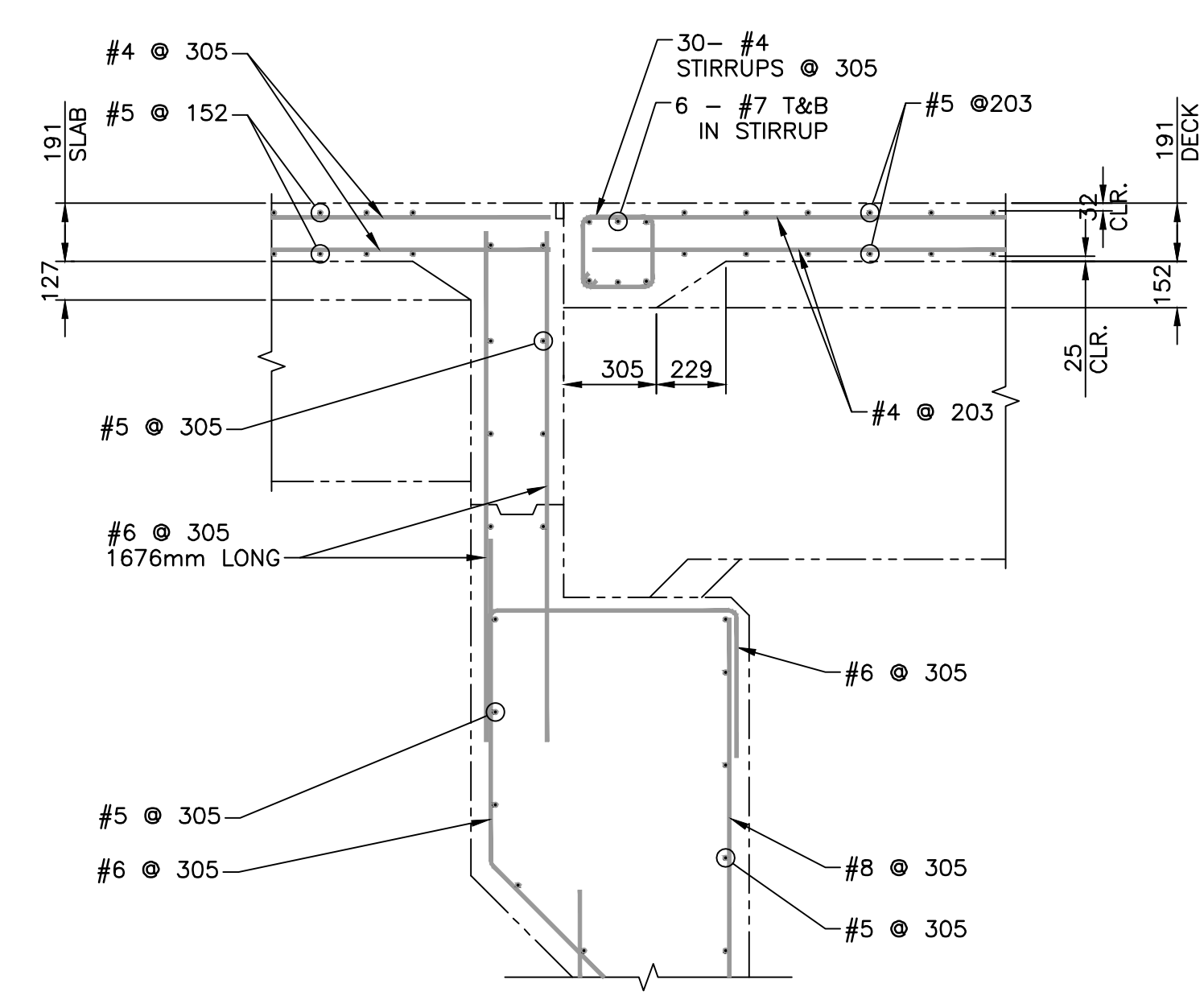
EXISTING REINFORCING IN DECK AND APPROACH SLAB

SCALE : 1:100



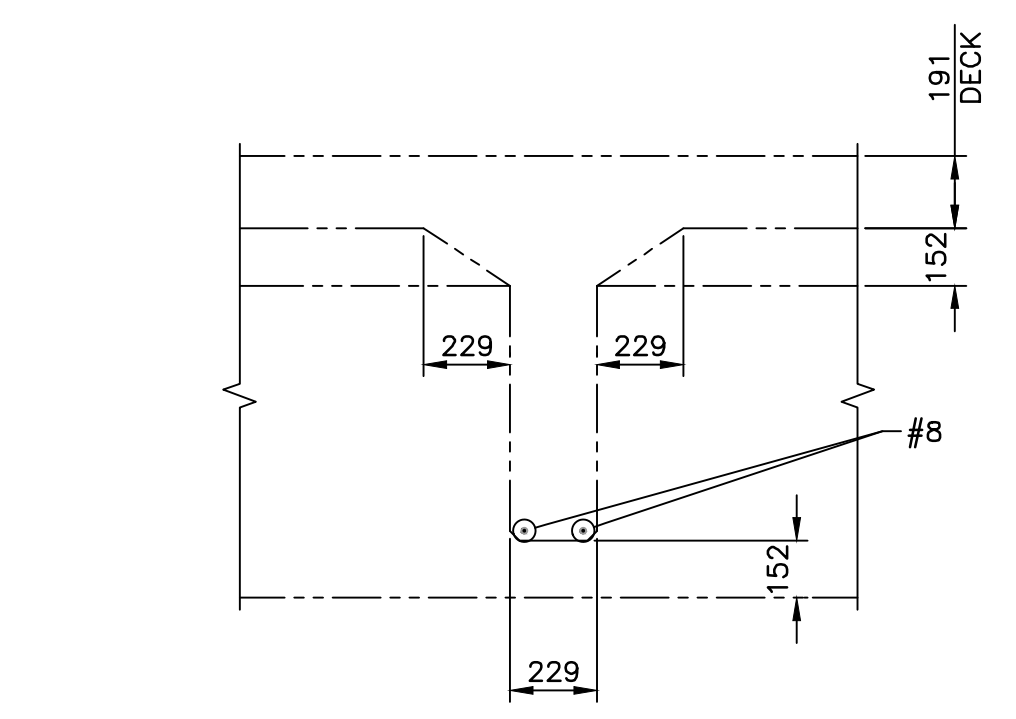
SECTION

SCALE : 1:30



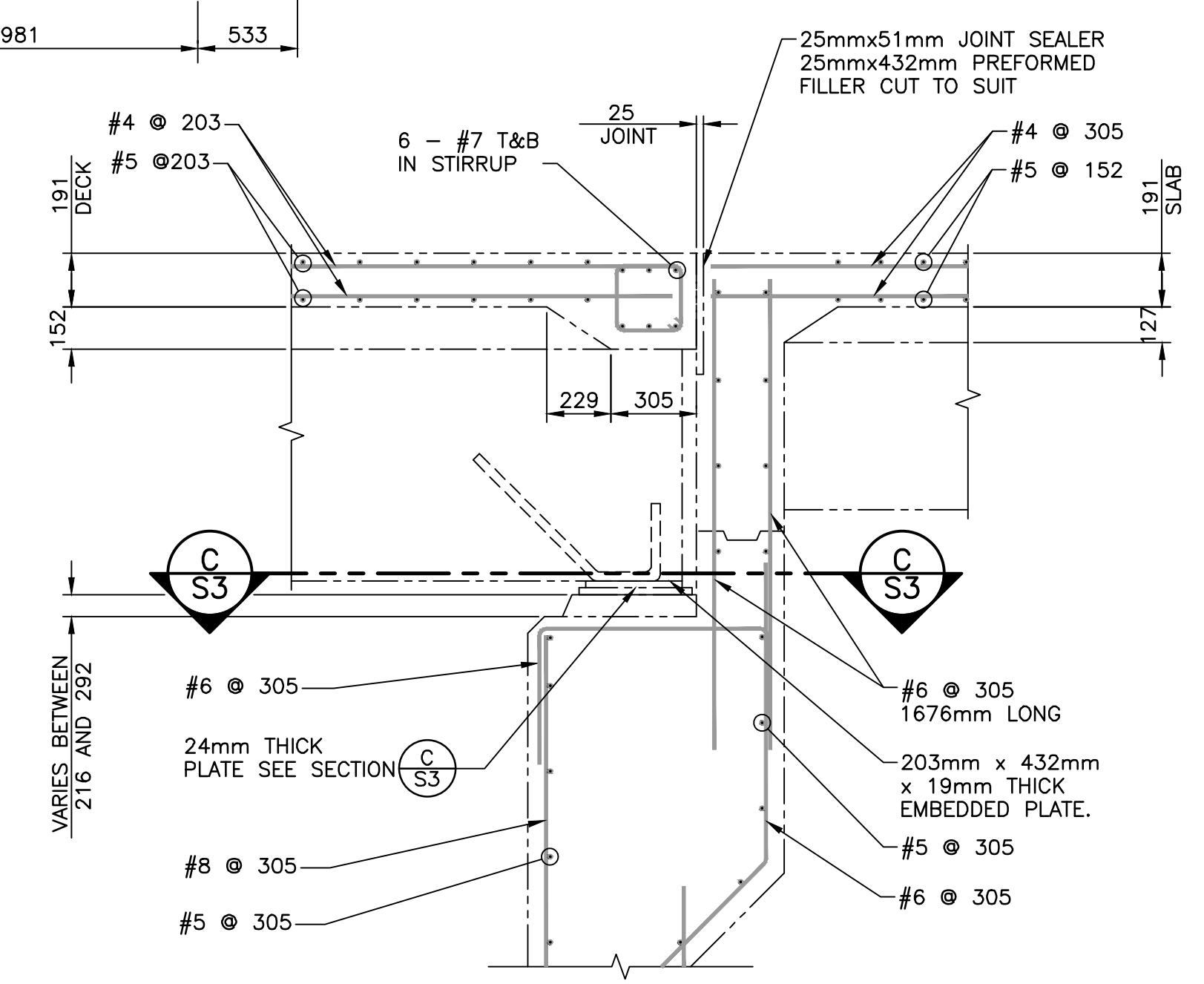
WEST ABUTMENT

SCALE : 1:20



INTERMEDIATE DIAPHRAGM

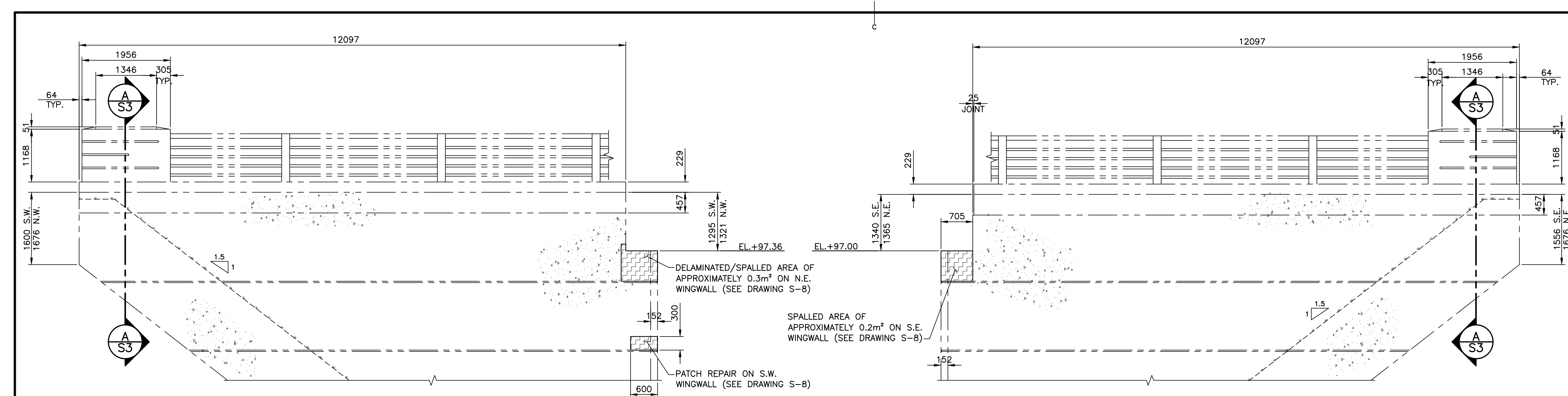
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EAST ABUTMENT

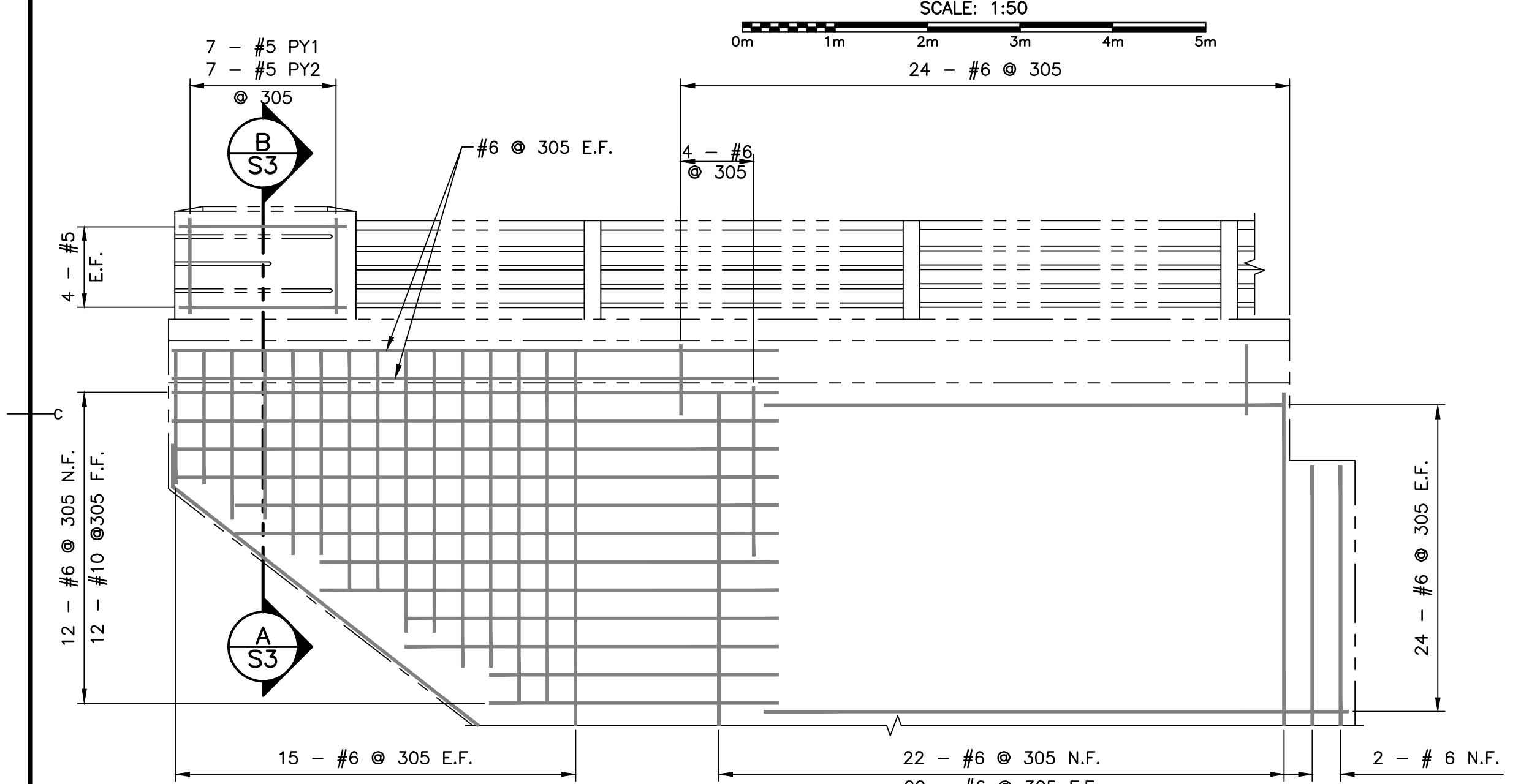
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U:\133346833\18_structural\3_Grande Anse\133346833S2.dwg

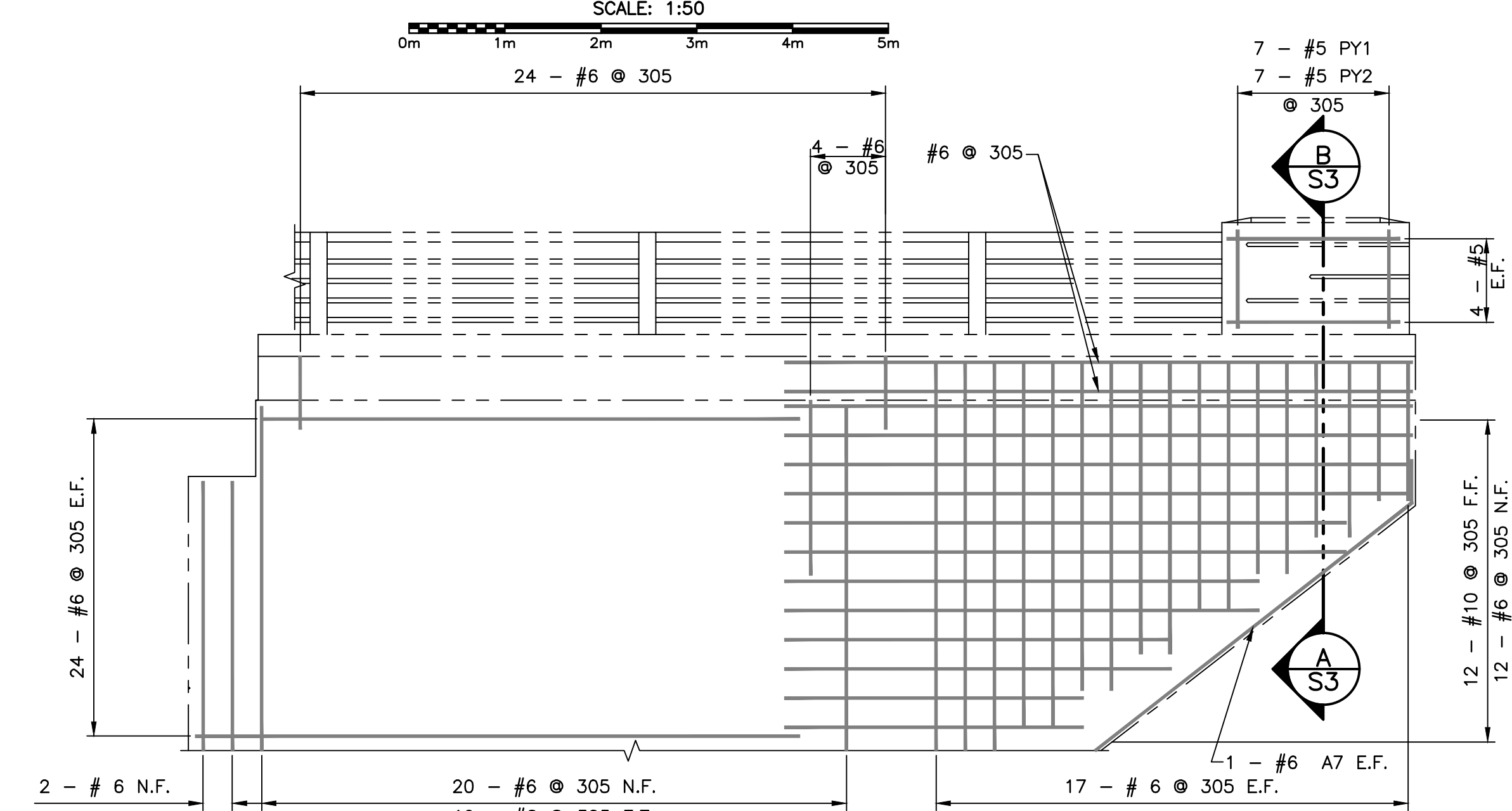


ELEVATION - S.W. WINGWALL (N.E. WINGWALL SIMILAR)

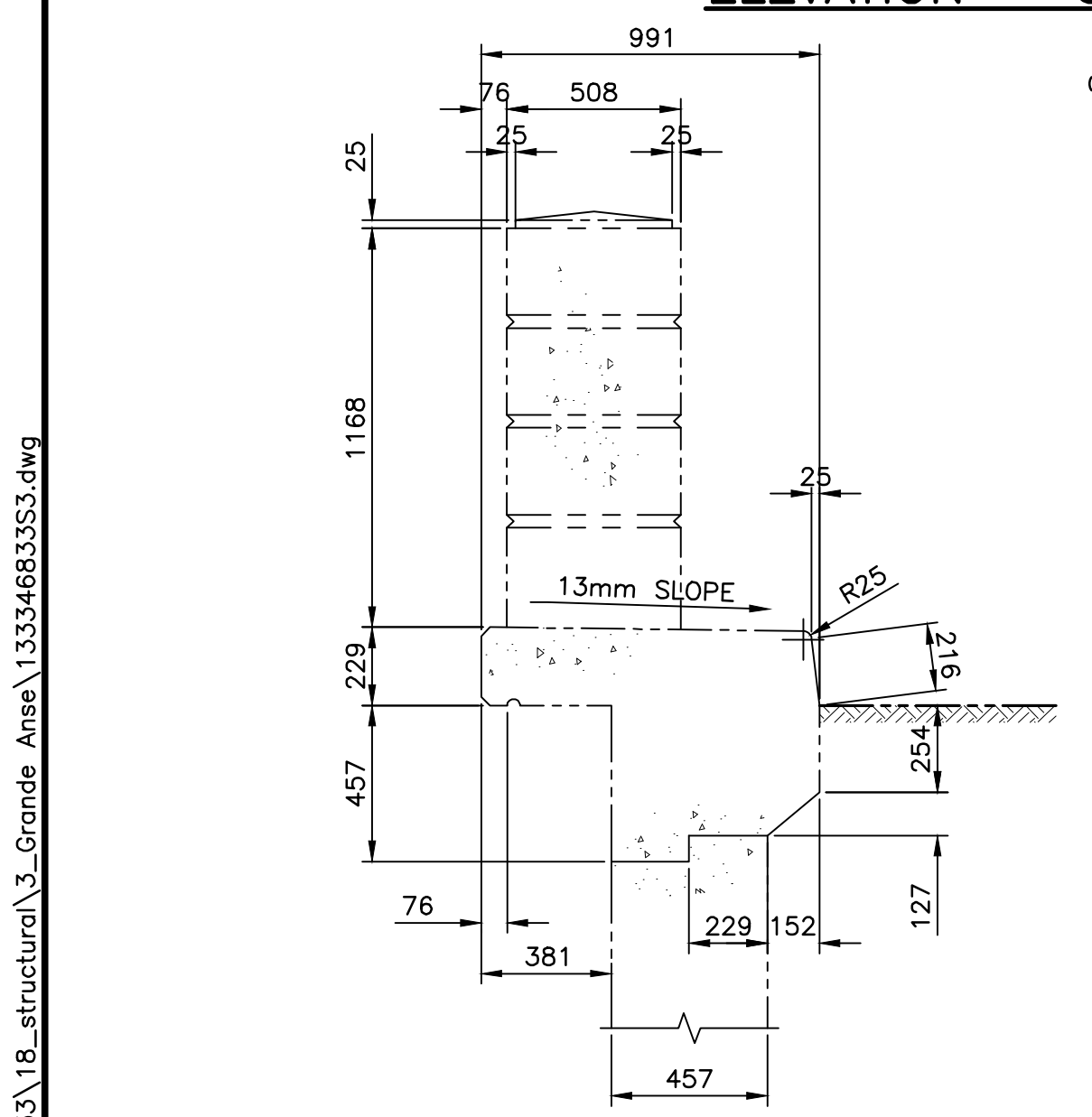
ELEVATION - S.E. WINGWALL (N.W. WINGWALL SIMILAR)



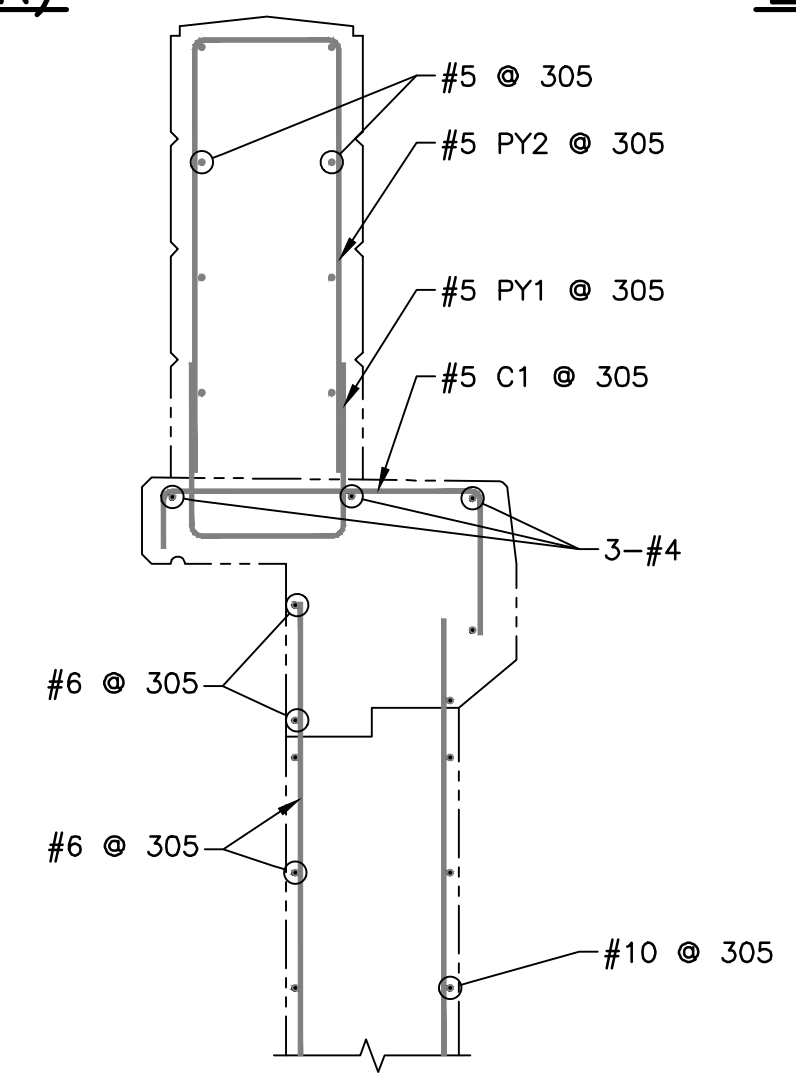
ELEVATION - S.W. WINGWALL (N.W. WINGWALL SIMILAR)



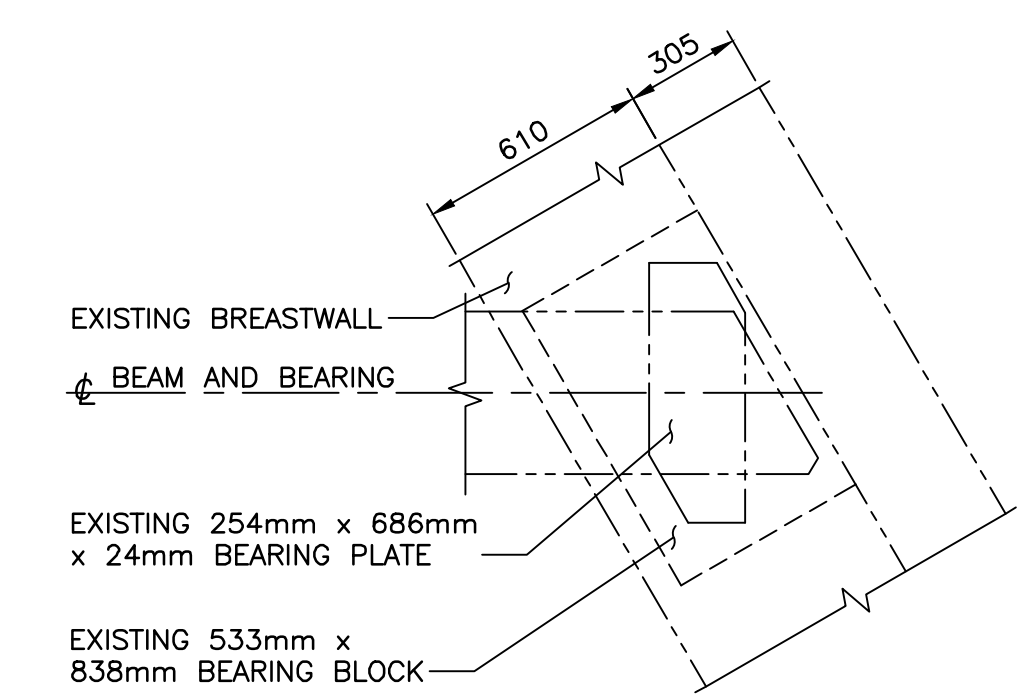
ELEVATION - S.E. WINGWALL (N.E. WINGWALL SIMILAR)



SECTION SCALE: 1:20



SECTION SCALE: 1:20



SECTION SCALE: 1:20

Parks Canada / Parcs Canada logo and project location map of Cape Breton Highlands National Park.



- NOTES:
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 - COVER TO ALL NEW REINFORCING STEEL TO BE 70 mm UNLESS NOTED OTHERWISE.
- LEGEND:
- ASPHALT
 - FULL DEPTH REPAIR (EXISTING REINFORCING TO BE REPLACED OR MAINTAINED, AS INDICATED)
 - PARTIAL DEPTH REPAIR (EXISTING REINFORCING TO BE MAINTAINED)



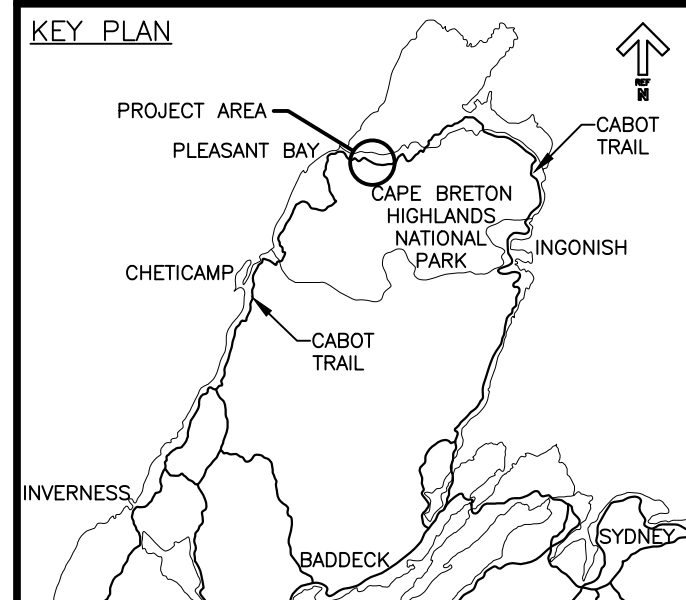
0	ISSUED FOR TENDER	02/15 2019
revisions		date

project
**CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing
**GRANDE ANSE RIVER
BRIDGE REHABILITATION
EXISTING WINGWALL
REINFORCING PLAN
SECTIONS AND DETAILS**

designed	GL	conçu
date	MAY. 31, 2018	
drawn	CRM/LMC	dessiné
date	MAY. 31, 2018	
approved	ALB	approuvé
date	FEB. 15, 2019	
Tender	PCA Project Manager	Soumission
date	FEB. 15, 2019	
project number	1114	no. du projet
drawing no.	S-3	no. du dessin

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- NOTES:
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- LEGEND:
- ASPHALT
 - FULL DEPTH REPAIR (EXISTING REINFORCING TO BE REPLACED OR MAINTAINED, AS INDICATED)
 - PARTIAL DEPTH REPAIR (EXISTING REINFORCING TO BE MAINTAINED)



0	ISSUED FOR TENDER	02/15 2019
revisions		date

project project
**CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK**

drawing dessin
**GRANDE ANSE RIVER
BRIDGE REHABILITATION
CONSTRUCTION SEQUENCE
PHASES 1 AND 2**

designed GL	conçu
date MAY. 31, 2018	
drawn CRM/LMC	dessiné
date MAY. 31, 2018	
approved ALB	approuvé
date FEB. 15, 2019	

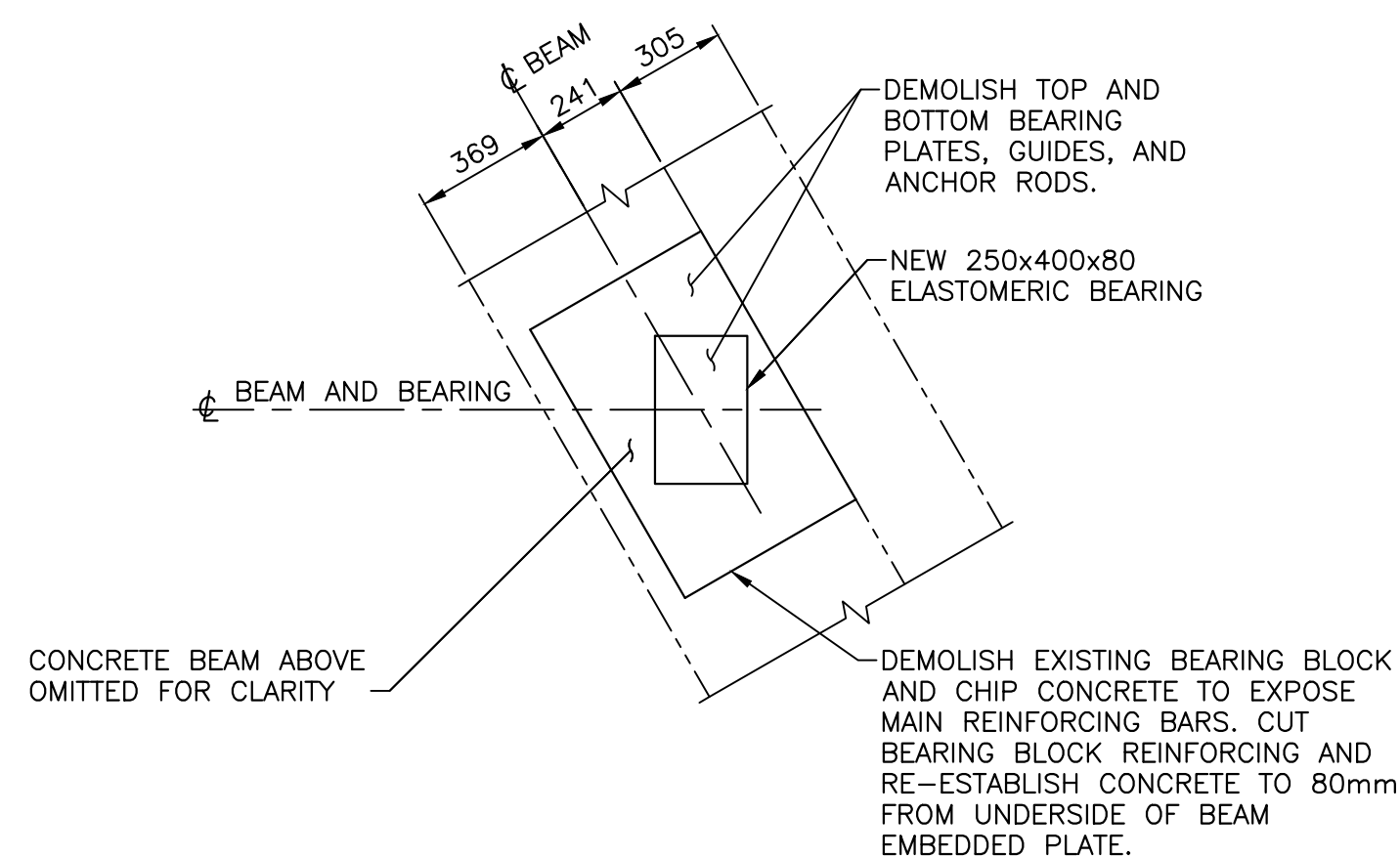
Tender Soumission
PCA Project Manager Administrateur de projets PCA
FEB. 15, 2019

project number no. du projet

1114

drawing no. no. du dessin

S-6



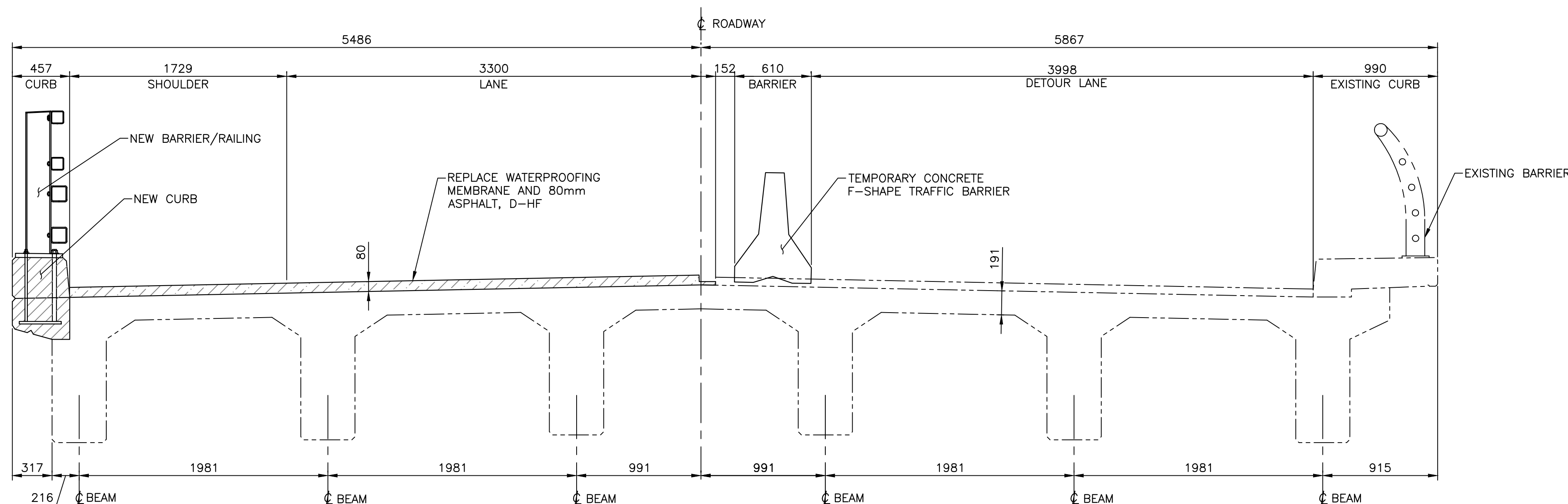
SECTION BEARING BLOCK REPAIR - EAST ABUTMENT

A
S4

SCALE: 1:20
0mm 500mm 1000mm 1500mm 2000mm 2500mm

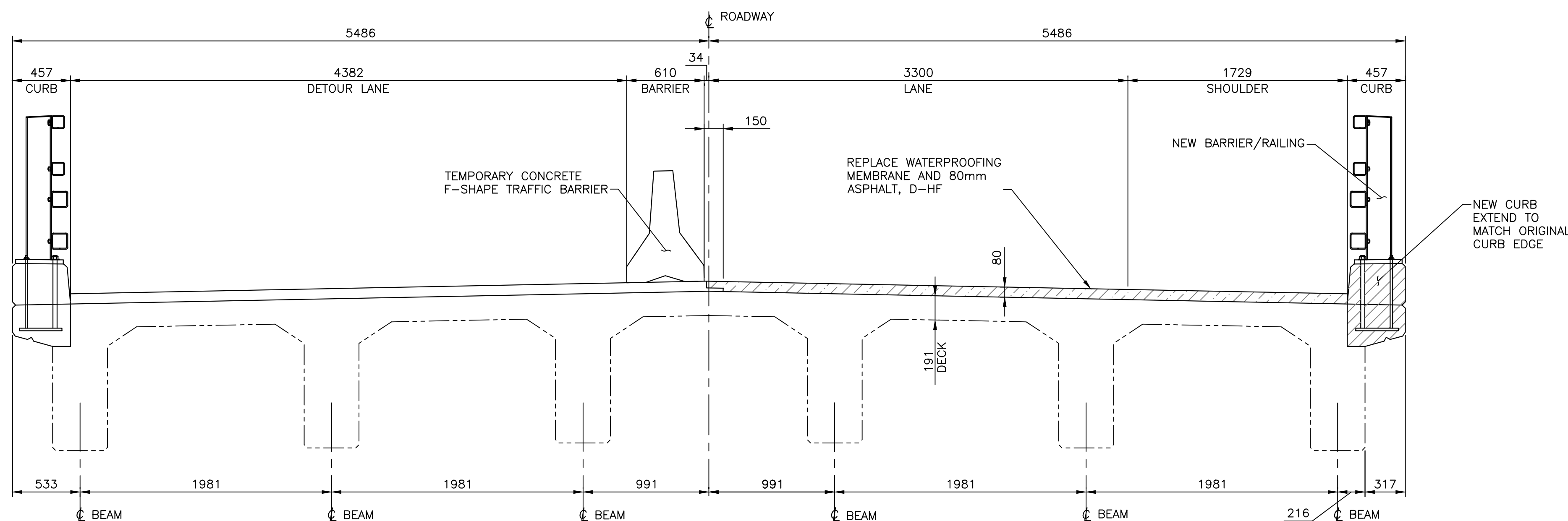
SCHEDULE OF ELASTOMERIC BEARINGS											
LOCATION	SERVICEABILITY LIMIT STATES						ULTIMATE LIMIT STATES				SHEAR STIFFNESS K ₂
	REFERENCE BEARING SIZE, QUANTITY	R _D (MAX.) (kN)	R _{L+1} (kN)	R _{D+L+1} (kN)	MOVE-MENT (mm)	∞ _D (RAD)	R _D (MAX.) (kN)	R _{L+1} (kN)	R _{D+L+1} (kN)	H ₁ (MAX.) (kN)	
EAST ABUTMENT	400 x 250 X 80 6 REQUIRED	260	290	550	9.5	0.004	310	475	785	-	326.3

R = VERTICAL H = HORIZONTAL LOAD ∞ = ROTATION
D = DEAD LOAD L = LIVE LOAD L+1 = LIVE + IMPACT



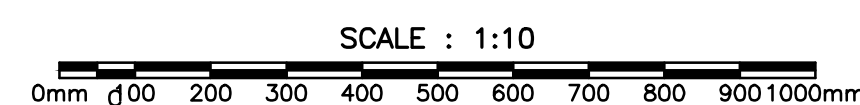
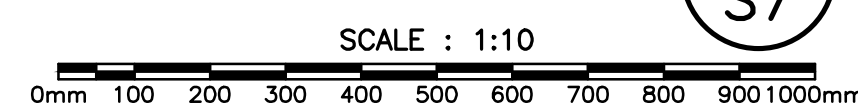
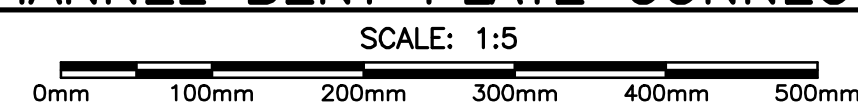
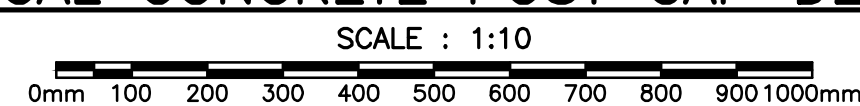
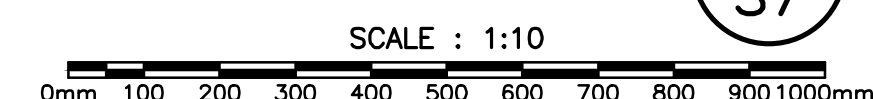
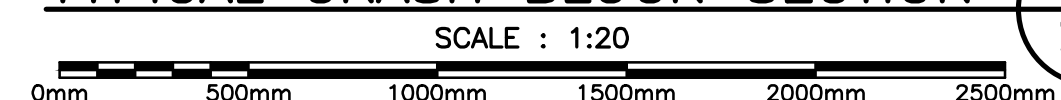
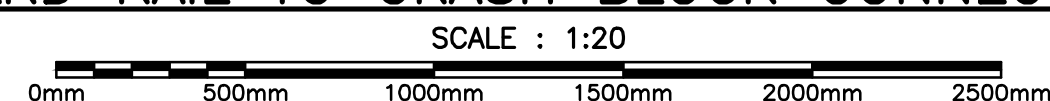
PHASE '1' CONSTRUCTION (LOOKING EAST)

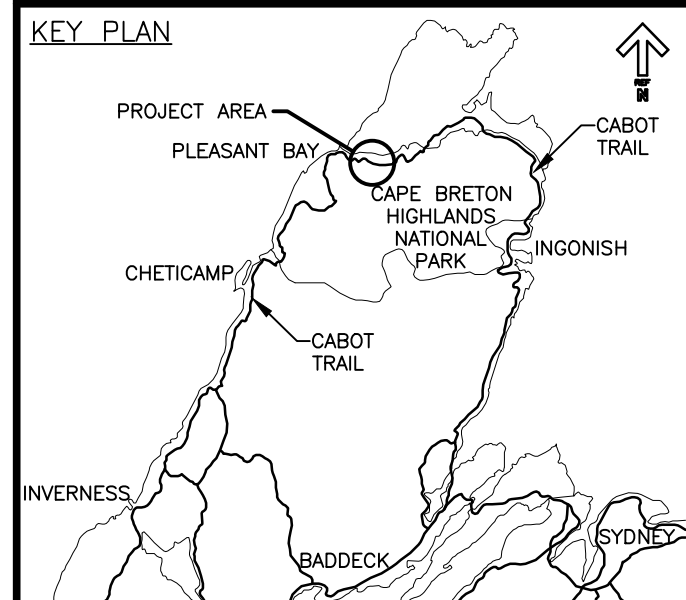
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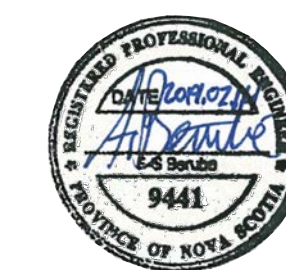
PHASE '2' CONSTRUCTION (LOOKING EAST)

SCALE: 1:25
0mm 500mm 1000mm 1500mm 2000mm 2500mm





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 - COVER TO ALL NEW REINFORCING STEEL TO BE 70 mm UNLESS NOTED OTHERWISE.
- LEGEND:**
- = ASPHALT
 - = FULL DEPTH REPAIR (EXISTING REINFORCING TO BE REPLACED OR MAINTAINED, AS INDICATED)
 - = PARTIAL DEPTH REPAIR (EXISTING REINFORCING TO BE MAINTAINED)

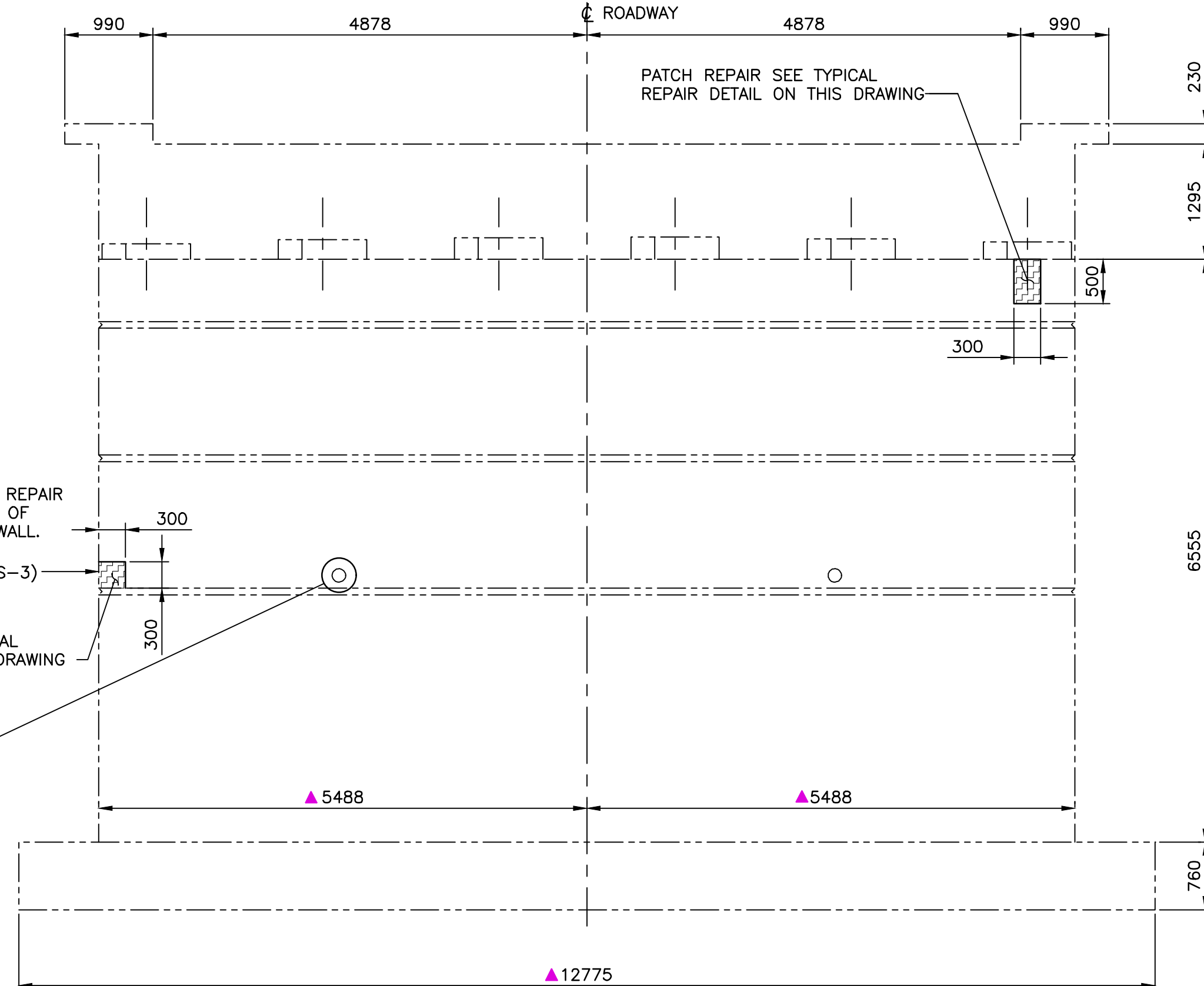


0	ISSUED FOR TENDER	02/15 2019
revisions		date

project CABOT TRAIL REHABILITATION
 PLEASANT BAY TO
 NORTH MOUNTAIN
 CAPE BRETON HIGHLANDS
 NATIONAL PARK

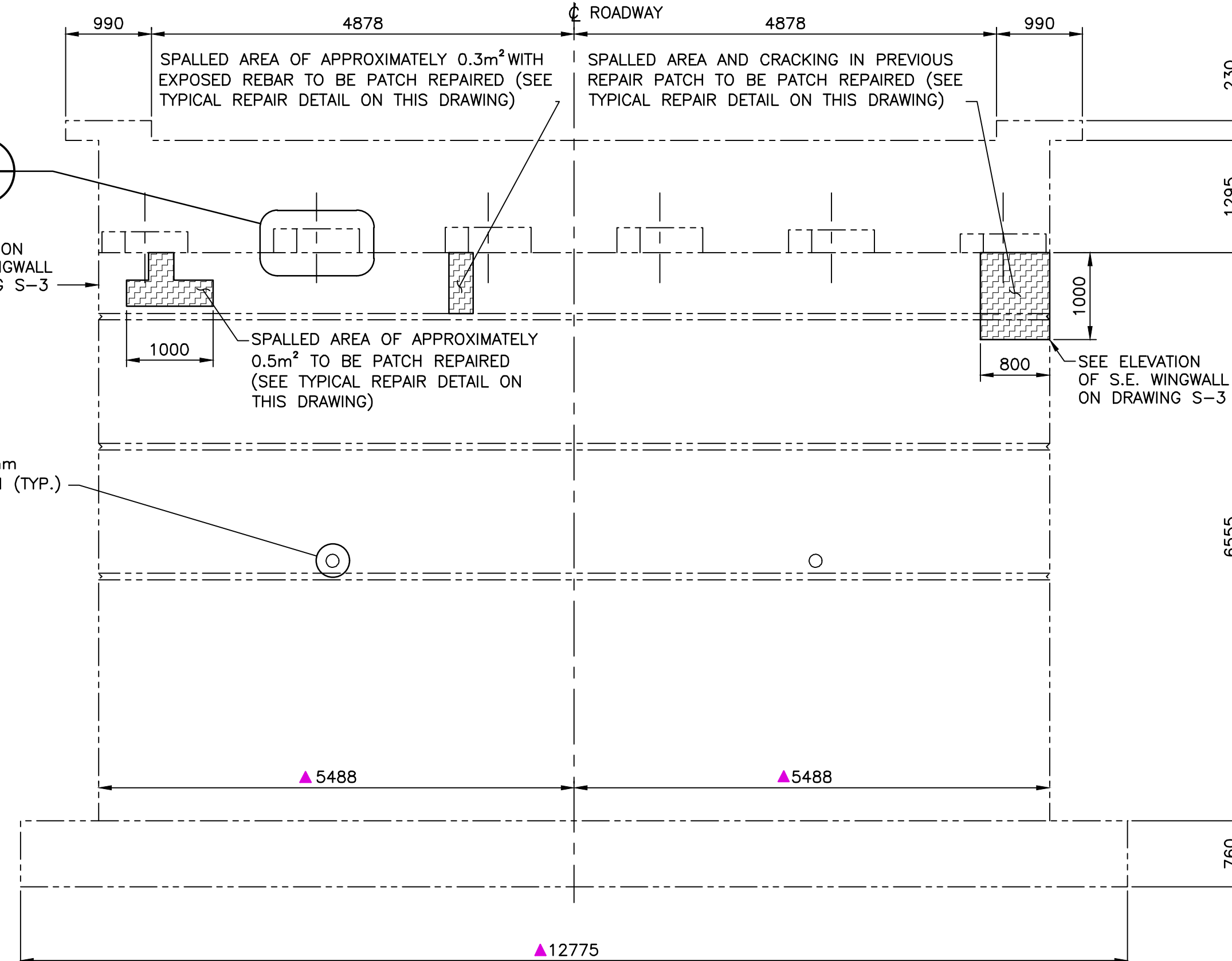
drawing GRANDE ANSE RIVER
 BRIDGE REHABILITATION
 WEST/EAST ABUTMENT
 CONCRETE REPAIR
 ELEVATIONS AND DETAILS

designed	GL	conçu
date	MAY. 31, 2018	
drawn	CRM/LMC	dessiné
date	MAY. 31, 2018	
approved	ALB	approuvé
date	FEB. 15, 2019	
Tender		Soumission
PCA Project Manager		Administrateur de projets PCA
project number		no. du projet
	1114	
drawing no.		no. du dessin
	S-8	



WEST ABUTMENT ELEVATION

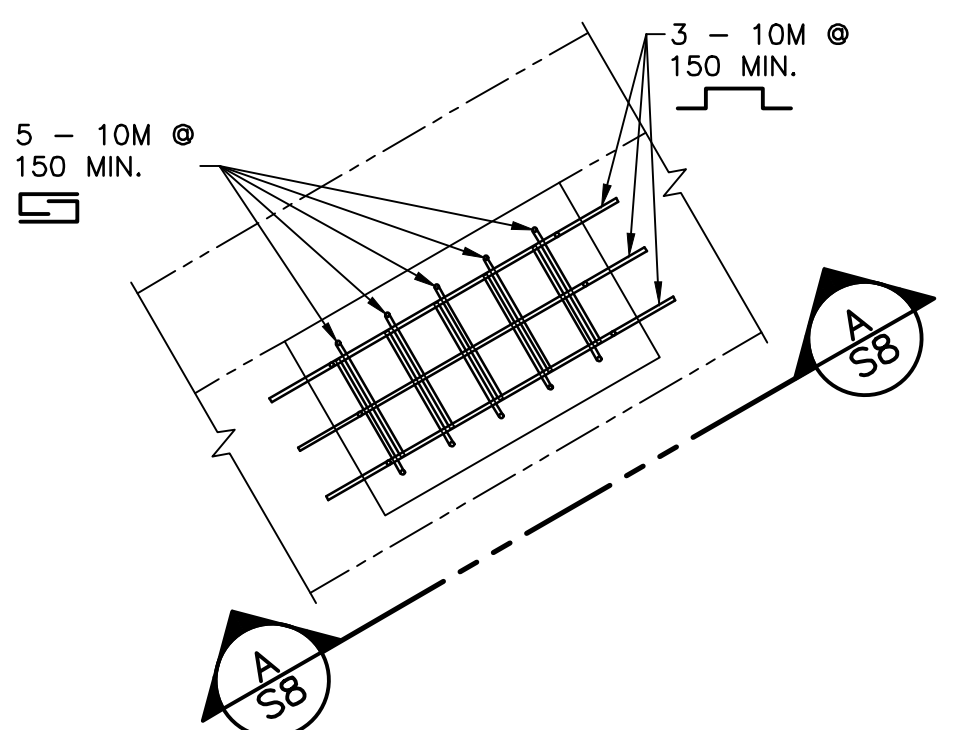
SCALE: 1:50



EAST ABUTMENT ELEVATION

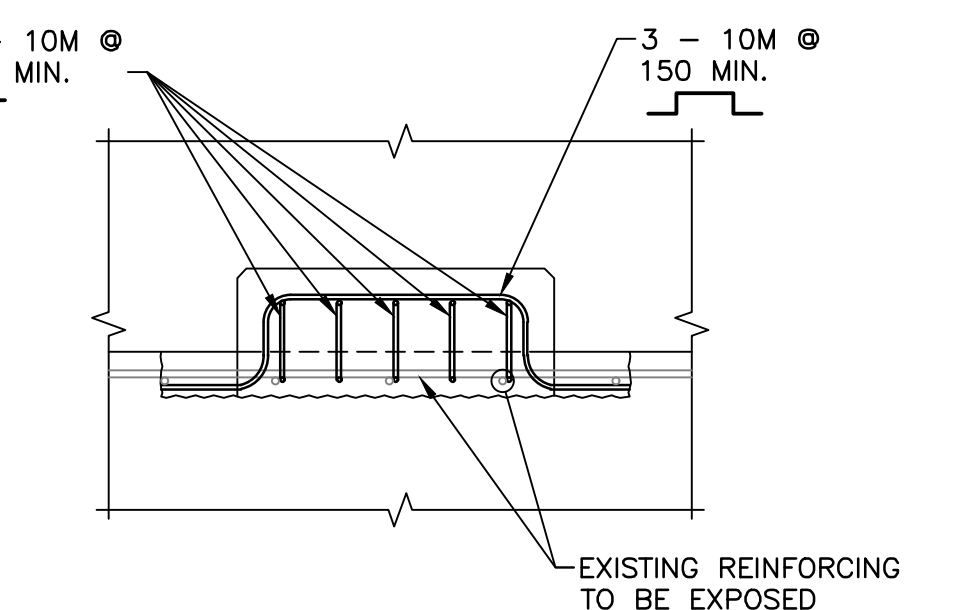
SCALE: 1:50

▲ DIMENSION TAKEN PERPENDICULAR TO CENTERLINE OF ROADWAY. SEE SKEW ANGLE ON DRAWING S-1.



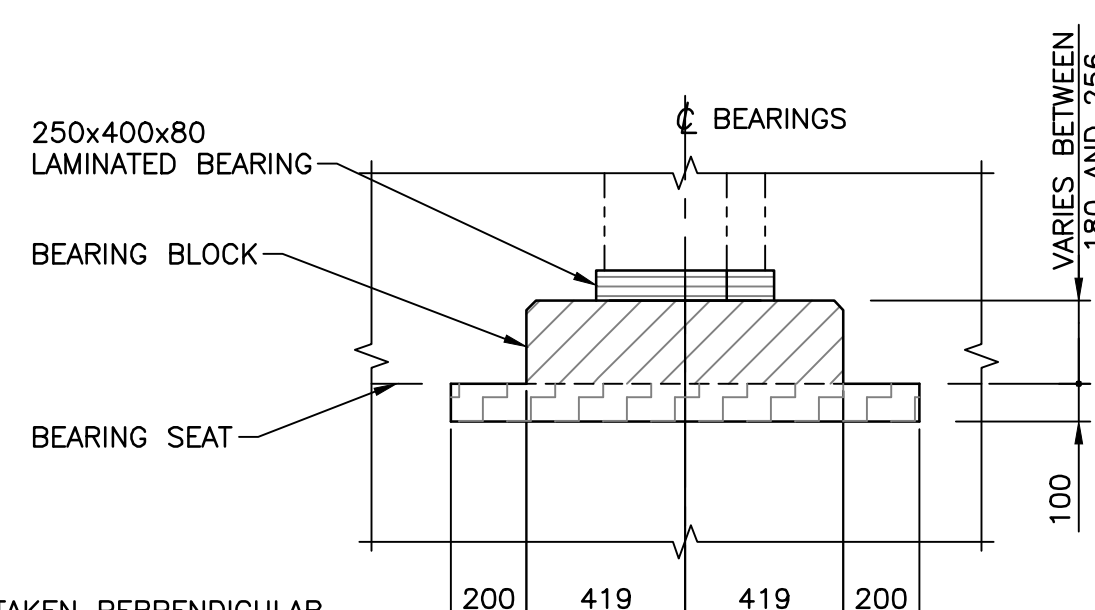
BEARING BLOCK REINFORCING PLAN

SCALE: 1:20



SECTION

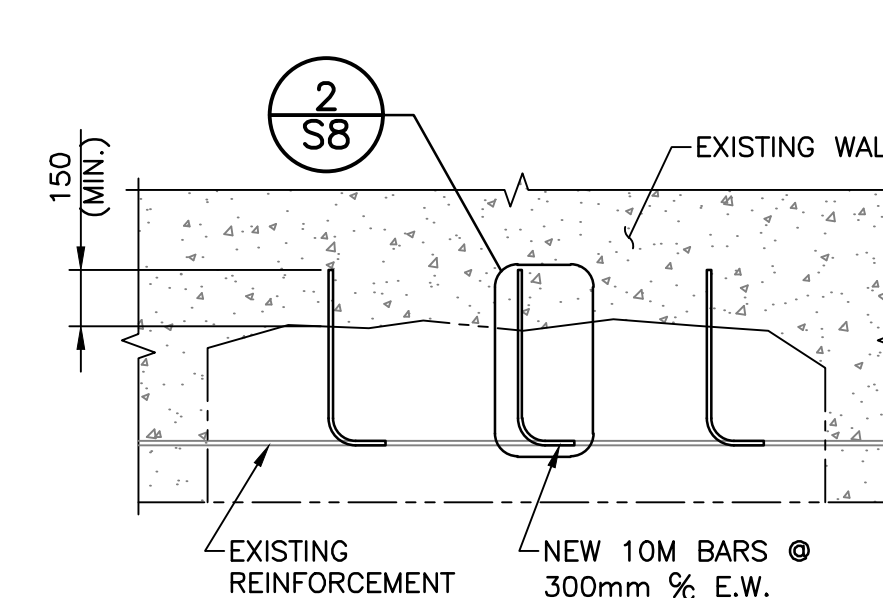
SCALE: 1:20



BEARING BLOCK REPAIR DETAIL

SCALE: 1:20

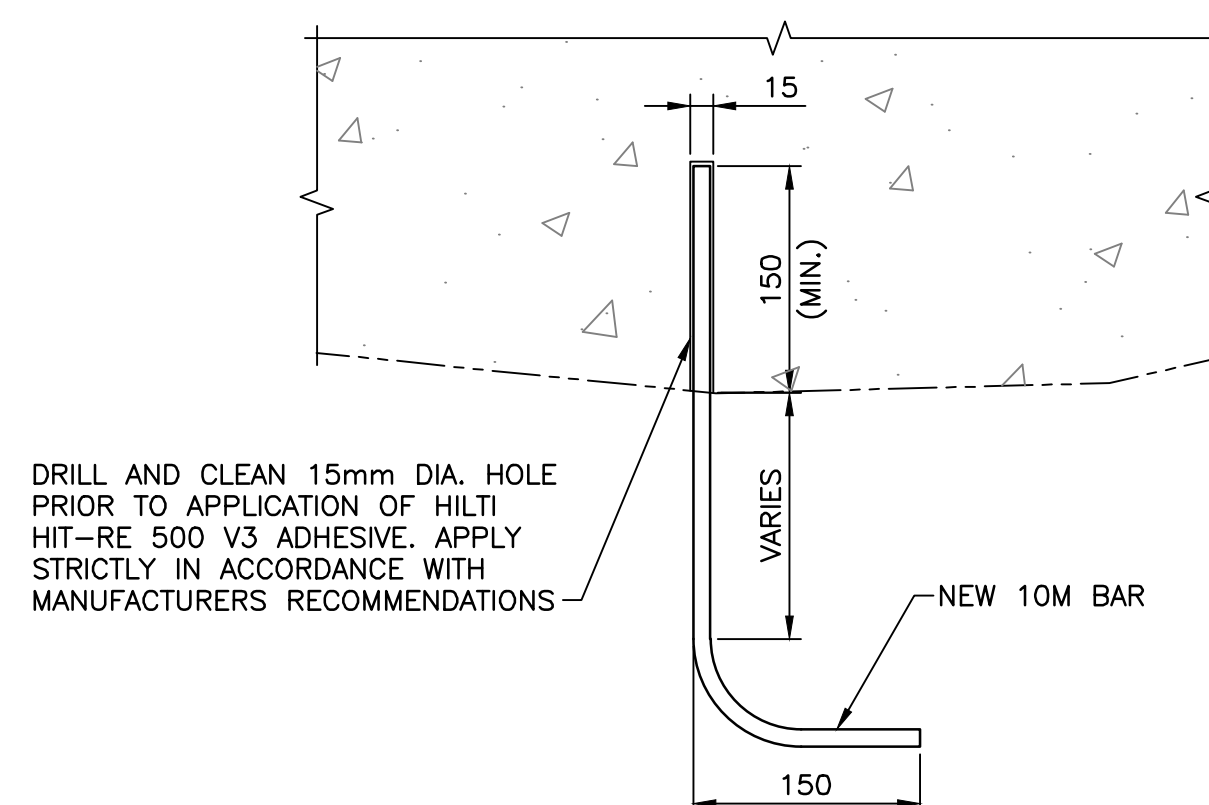
NOTE:
SECTION TAKEN PERPENDICULAR TO THE ABUTMENT WALL



TYPICAL WALL SPALLING AND DELAMINATION REPAIR

SCALE: 1:20

- NOTES:**
- REMOVE DETERIORATED CONCRETE WITH JACKHAMMER AND CHIPPING HAMMER, OF SIZES INDICATED ON DWG. NOTES, TO SOUND CONCRETE. MINIMUM DEPTH OF 50mm OR 100mm BEHIND EXPOSED REINFORCING BARS.
 - SANDBLAST EXPOSED REBAR.
 - SANDBLAST CONCRETE SUBSTANCE. REMOVE ALL LOOSE AGGREGATE, DIRT, LAITANCE. AIR BLAST TO REMOVE DUST.
 - APPLY APPROVED BONDING AGENT TO CLEANED CONCRETE SURFACE AND REBAR. CONCRETE SURFACE IS TO BE SATURATED SURFACE DRY (SSD) WITH NO STANDING WATER PRIOR TO APPLICATION OF BONDING AGENT.
 - APPLY APPROVED HIGH STRENGTH PATCHING MORTAR IN 38mm LIFTS (MAX.). APPLY STRICTLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.



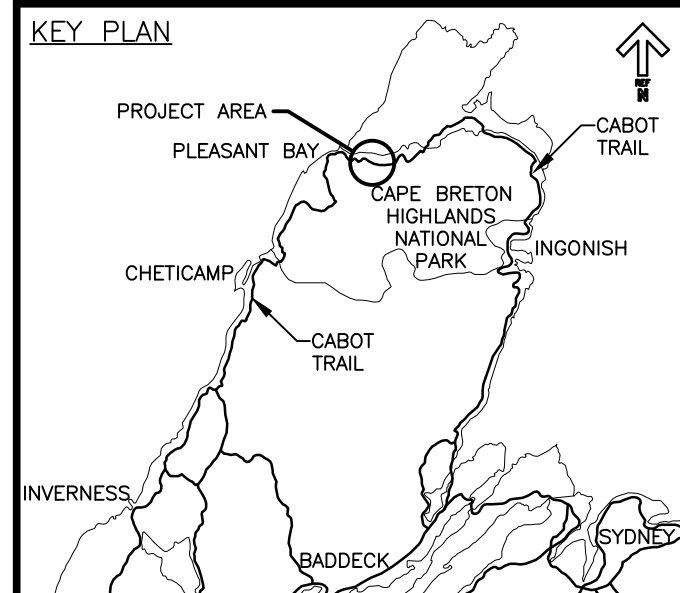
TYPICAL ANCHOR DETAIL

SCALE: 1:5



Parks Canada

KEY PLAN

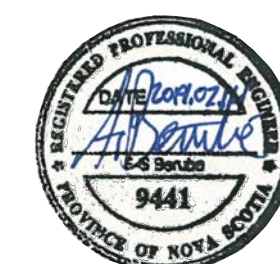


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- COVER TO ALL NEW REINFORCING STEEL TO BE 70 mm UNLESS NOTED OTHERWISE.

LEGEND:

- ASPHALT
- FULL DEPTH REPAIR (EXISTING REINFORCING TO BE REPLACED OR MAINTAINED, AS INDICATED)
- PARTIAL DEPTH REPAIR (EXISTING REINFORCING TO BE MAINTAINED)



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revisions		date

project CABOT TRAIL REHABILITATION
PLEASANT BAY TO
NORTH MOUNTAIN
CAPE BRETON HIGHLANDS
NATIONAL PARK

drawing dessin

GRANDE ANSE RIVER
BRIDGE REHABILITATION
DEMOLITION DETAILS

designed GL	conçu
date MAY. 31, 2018	
drawn CRM/LMC	dessiné
date MAY. 31, 2018	
approved ALB	approuvé
date FEB. 15, 2019	

Tender PCA Project Manager
Soumission Administrateur de projets PCA

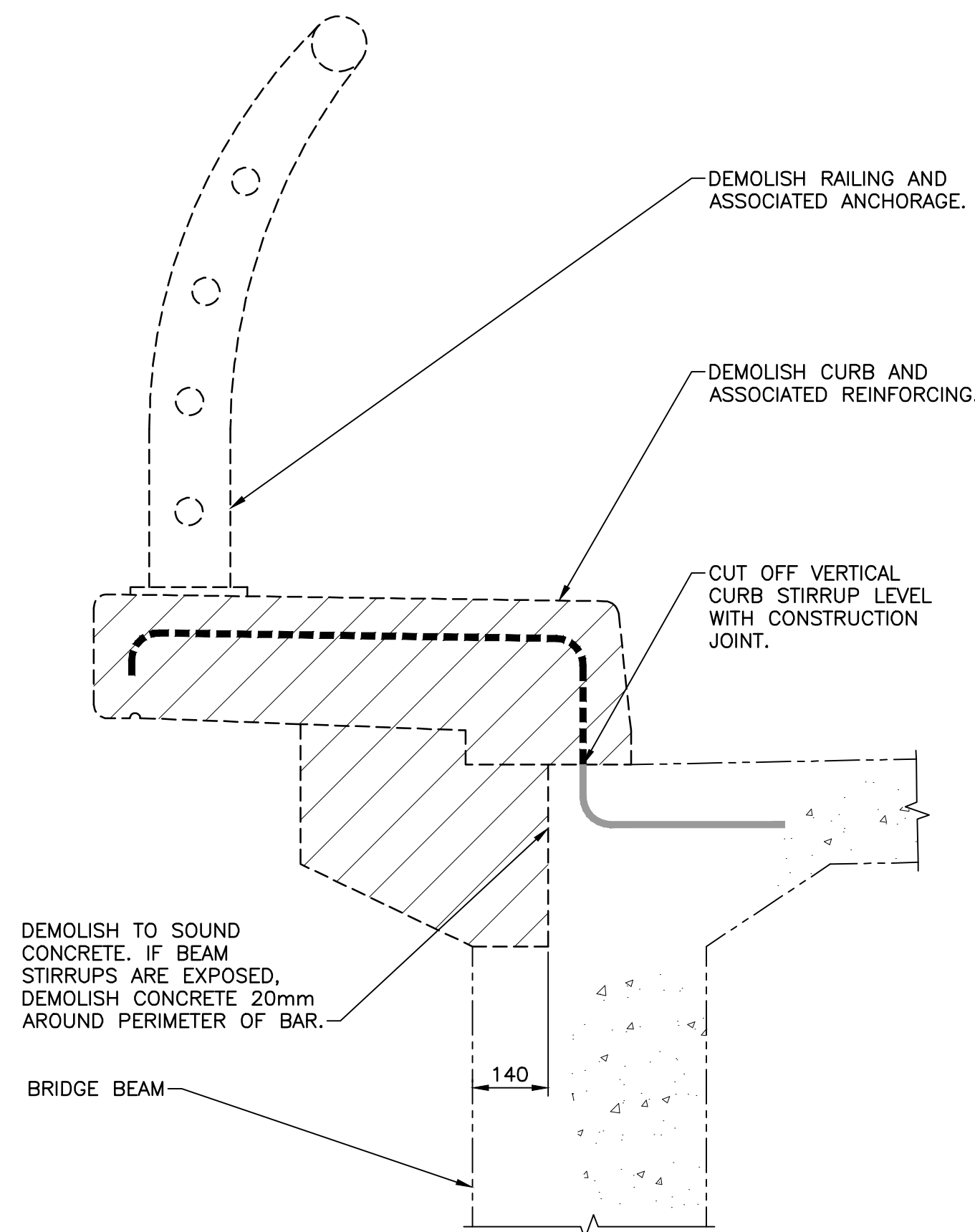
project number no. du projet

1114

drawing no. no. du dessin

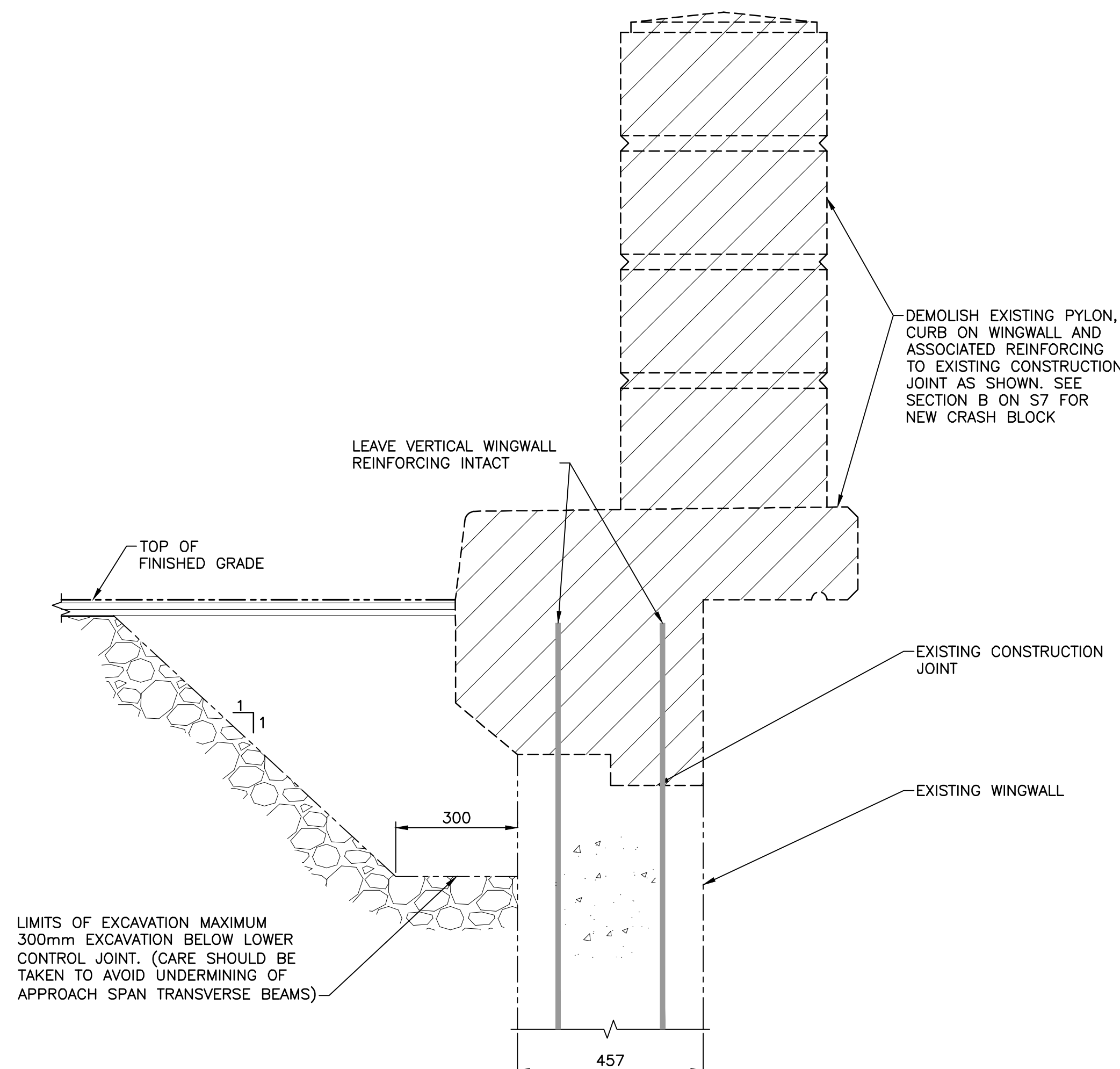
S-9

E-DRM/GDD-E: NOT IN SYSTEM



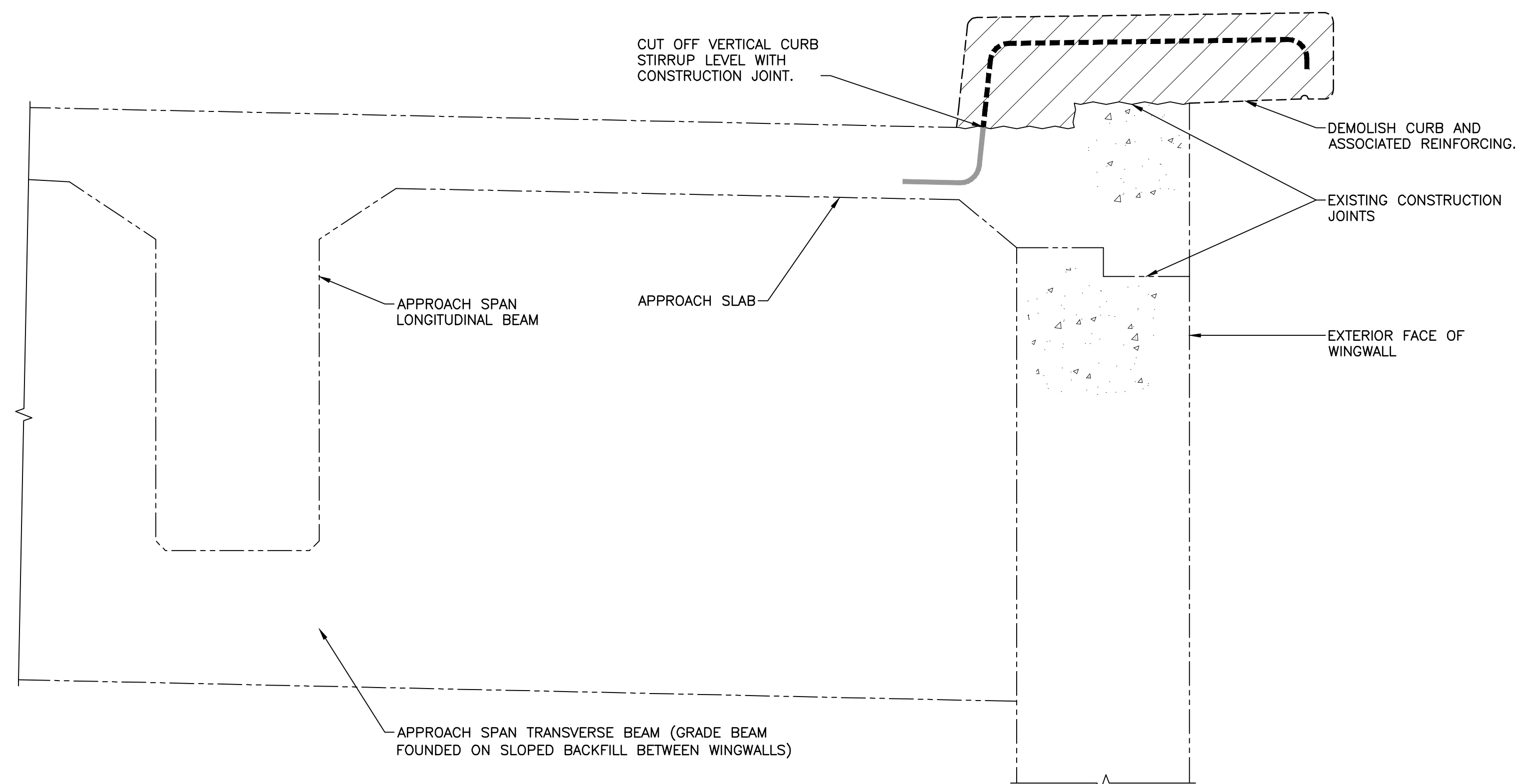
DEMOLITION - CURB/RAILING AT DECK

SCALE : 1:10
0mm 100 200 300 400 500 600 700 800 900 1000mm



DEMOLITION - CRASH BLOCK OVER WINGWALL

SCALE : 1:10
0mm 100 200 300 400 500 600 700 800 900 1000mm



DEMOLITION - CURB AT DECK WINGWALL

SCALE : 1:10
0mm 100 200 300 400 500 600 700 800 900 1000mm

0 10 20mm 40 60 80 100 120 140 160 180 200mm

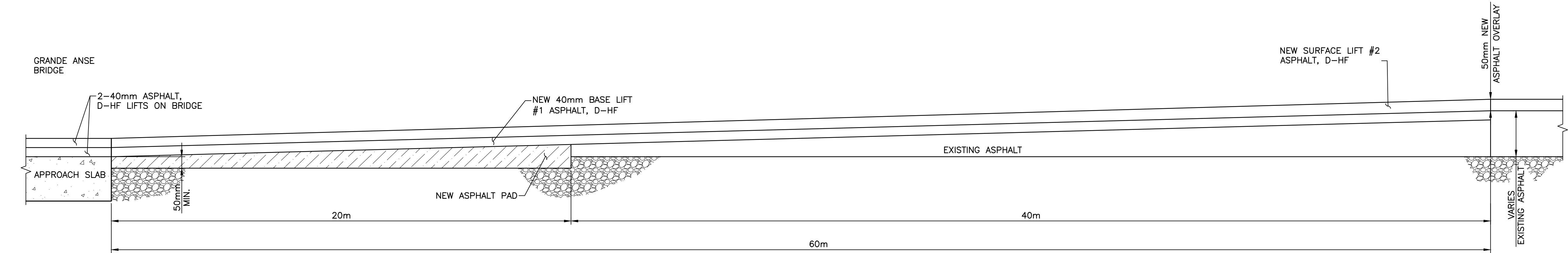
U:\133346833\18_structural\3_Grande Anse\133346833S9.dwg

PWGSC A1 (2004)

U:\133346833\18_structural\3_Grande Anse\133346833S10.dwg

PWOSC A1 (2004)

0 10 20mm 40 60 80 100 120 140 160 180 200mm



BRIDGE ASPHALT TRANSITION (BOTH SIDES)

SCALE: N.T.S

NOTES:

GENERAL

- THE REHABILITATION WILL REDUCE THE ASPHALT THICKNESS OF THE EXISTING BRIDGE DECK AND CONCRETE APPROACH SLABS FROM THE EXISTING THICKNESS OF APPROXIMATELY 200mm TO 80mm OF NEW ASPHALT.
- THERE IS APPROXIMATELY 200mm OF ASPHALT ON THE ROADWAYS ON EITHER SIDE OF THE BRIDGE AND THE PAVEMENT REHABILITATION WILL PLACE AN ADDITIONAL 50mm ASPHALT OVERLAY.
- THE TRANSITION FROM THE 250mm OF ASPHALT ON THE ROADWAY TO THE 80mm OF NEW ASPHALT ON THE BRIDGE APPROACH SLABS TO BE DONE UNIFORMLY OVER A 60m TRANSITION (350H:1V) LENGTH.
- THE FINAL LIFT OF THE NEW ASPHALT ON THE BRIDGE DECK AND APPROACH SLABS IS TO BE APPLIED AS PART OF PLACING THE ASPHALT OVERLAY ON THE ROADWAY.
- REQUIREMENTS OF THE PROJECT SPECIFICATIONS FOR ASPHALT PAVING APPLY TO THE PAVING OF THE BRIDGE STRUCTURE AND THE TRANSITION AREAS.

STEP 1. FULL WIDTH ASPHALT REMOVAL

- REMOVE THE EXISTING ASPHALT FROM THE BRIDGE DECK AND THE CONCRETE APPROACH SLABS.
- PLACE ASPHALT TAPERS AS NECESSARY TO SAFELY AND SMOOTHLY ACCOMMODATE TRAFFIC OVER THE RAISED EXPANSION JOINT AND AT OTHER REQUIRED LOCATIONS.
- MILL THE EXISTING ROADWAY ASPHALT TO PROVIDE A SMOOTH 60m LONG TAPER FROM THE ENDS OF EACH APPROACH SLAB TO THE EXISTING ROADWAY ASPHALT.
- FOLLOWING REMOVAL OF THE ASPHALT, IT IS LIKELY THAT THERE WILL BE EXPOSED GRANULAR BASE IMMEDIATELY ADJACENT TO THE CONCRETE APPROACH SLABS AND THAT THE PLACEMENT OF ADDITIONAL ASPHALT WILL BE REQUIRED.
- REMOVE THE EXISTING ROADWAY ASPHALT OR GRANULAR TO A DEPTH OF 50mm AT THE CONCRETE APPROACH SLABS FOR A DISTANCE OF 20m FROM THE APPROACH SLABS WITH THE BOTTOM OF THE REMOVAL AREA BEING A FLAT GRADE (NOT TO FOLLOW THE SLOPE OF THE TRANSITION).
- PLACE NEW HOT MIX ASPHALT FOR A DISTANCE OF 20m BEGINNING AT THE CONCRETE APPROACH SLABS ON BOTH BRIDGE APPROACHES, BEING 50mm THICK AT THE CONCRETE APPROACH SLAB AND MATCHING THE MILLED SURFACE 20m AWAY FROM THE APPROACH SLAB.

STEP 2. BRIDGE DECK PAVING. PHASE 1

- PHASE 1 OF THE BRIDGE DECK REHABILITATION IS SHOWN ON DRAWING NO. S-6.
- FOLLOWING PLACEMENT OF THE BRIDGE DECK MEMBRANE. THE INITIAL 40mm LIFT OF ASPHALT SHOULD BE PLACED ON THE BRIDGE DECK.
- THE INITIAL 40mm LIFT OF ASPHALT SHOULD EXTEND THE FULL LENGTH OF THE MILLED TRANSITION (60m ON EITHER SIDE OF THE BRIDGE) AND INCLUDE THE CONCRETE APPROACH SLABS.
- THE MILLED ASPHALT AND CONCRETE APPROACH SLAB SURFACES ARE TO BE CLEANED AND TACK COATED PRIOR TO PLACING THE NEW HOT MIX ASPHALT.

STEP 3. BRIDGE DECK PAVING. PHASE 2

- PHASE 2 OF THE BRIDGE DECK REHABILITATION IS SHOWN ON DRAWING NO. S-6.
- FOLLOWING PLACEMENT OF THE BRIDGE DECK MEMBRANE. THE INITIAL 40mm LIFT OF ASPHALT SHOULD BE PLACED ON THE BRIDGE DECK.
- THE INITIAL 40mm LIFT OF ASPHALT SHOULD EXTEND THE FULL LENGTH OF THE MILLED TRANSITION (60m ON EITHER SIDE OF THE BRIDGE) AND INCLUDE THE CONCRETE APPROACH SLABS.
- THE MILLED ASPHALT AND CONCRETE APPROACH SLAB SURFACES ARE TO BE CLEANED AND TACK COATED PRIOR TO PLACING THE NEW HOT MIX ASPHALT.
- A JOINT HEATER IS TO BE USED ON THE LONGITUDINAL ASPHALT JOINT BETWEEN THE PHASE 1 AND 2 ASPHALT LIFTS.

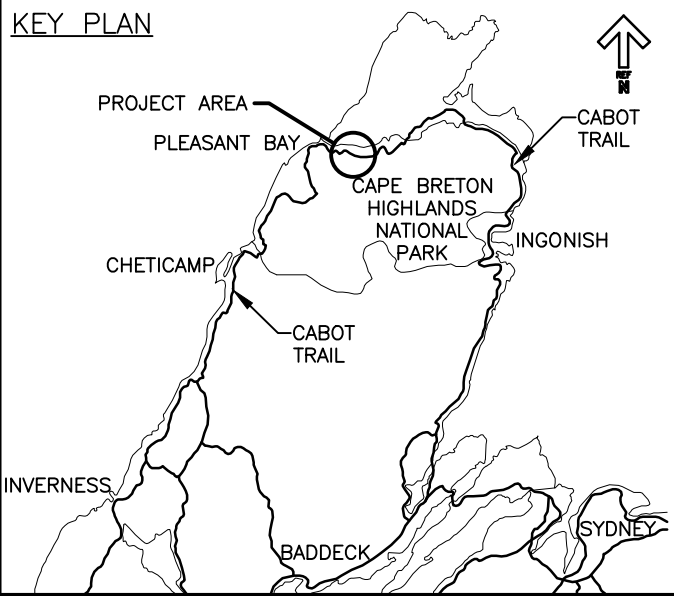
STEP 4. ASPHALT OVERLAY

- THE FINAL LIFT OF NEW ASPHALT ON THE BRIDGE DECK AND APPROACH SLABS IS TO BE APPLIED AS PART OF PLACING THE ASPHALT OVERLAY ON THE ROADWAY.
- THE SURFACE OF THE INITIAL LIFT IS TO BE CLEANED AND TACK COATED PRIOR TO PLACING THE FINAL LIFT.
- THE THICKNESS OF THE FINAL ASPHALT LIFT VARIES FROM 40mm ON THE BRIDGE DECK AND CONCRETE APPROACH SLABS TO 50mm ON THE ROADWAY; THIS CHANGE IN THICKNESS IS TO BE MADE GRADUALLY AND UNIFORMLY OVER THE 60m TRANSITION LENGTH ON EITHER SIDE OF THE STRUCTURE.



Parks Canada Parcs Canada

KEY PLAN



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GRANDE ANSE RIVER
BRIDGE REHABILITATION
ASPHALT PAVING DETAILS

designed GL	conçu
date FEB. 8, 2019	
drawn LMC	dessiné
date FEB. 8, 2019	
approved ALB	approuvé
date FEB. 15, 2019	

Tender FEB. 15, 2019
PCA Project Manager Administrateur de projets PCA

project number no. du projet

1114

drawing no. no. du dessin

S-10

E-DRM/GDD-E: NOT IN SYSTEM