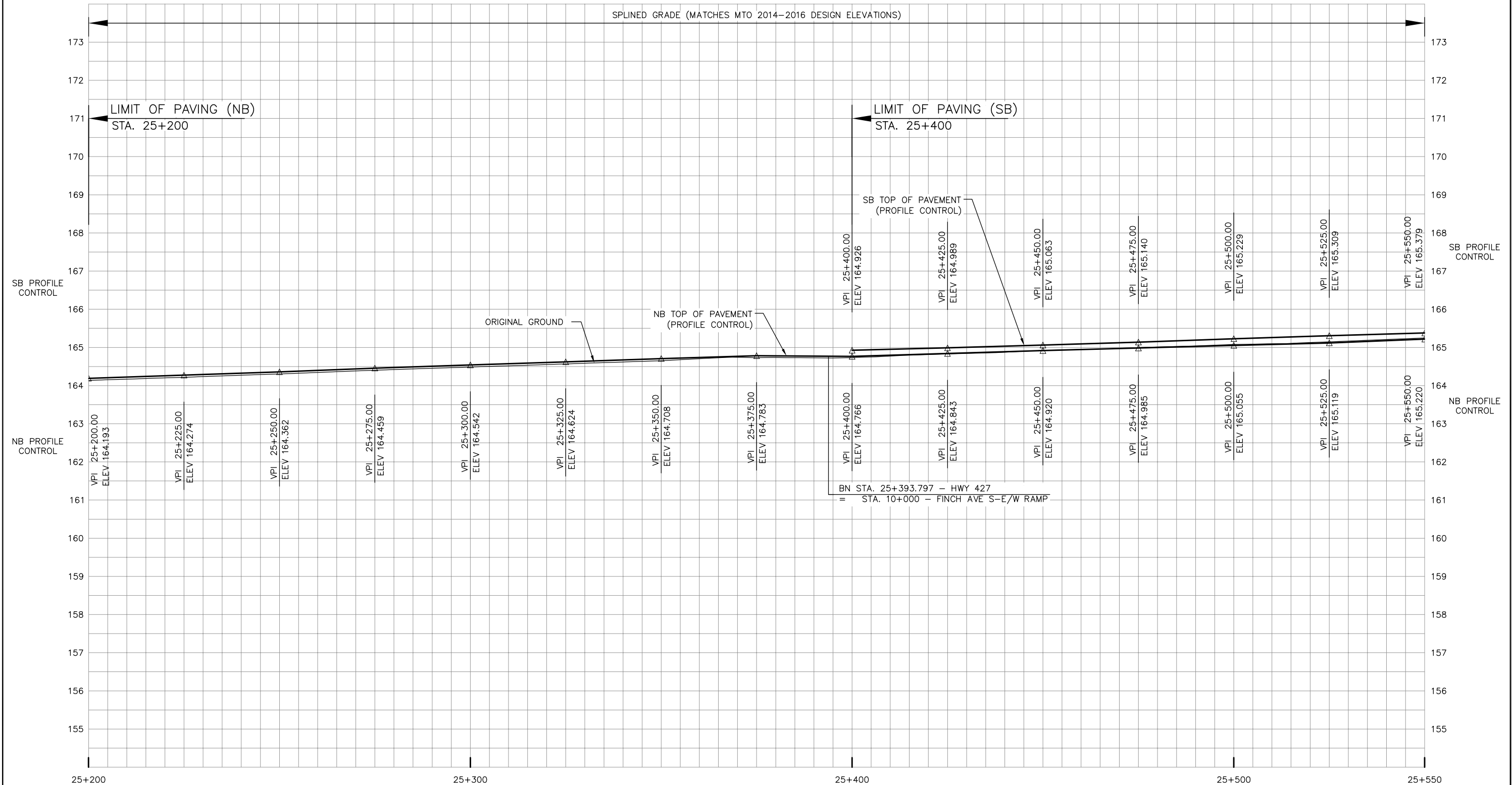
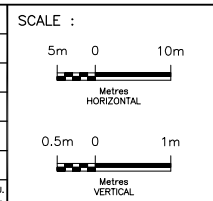


HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

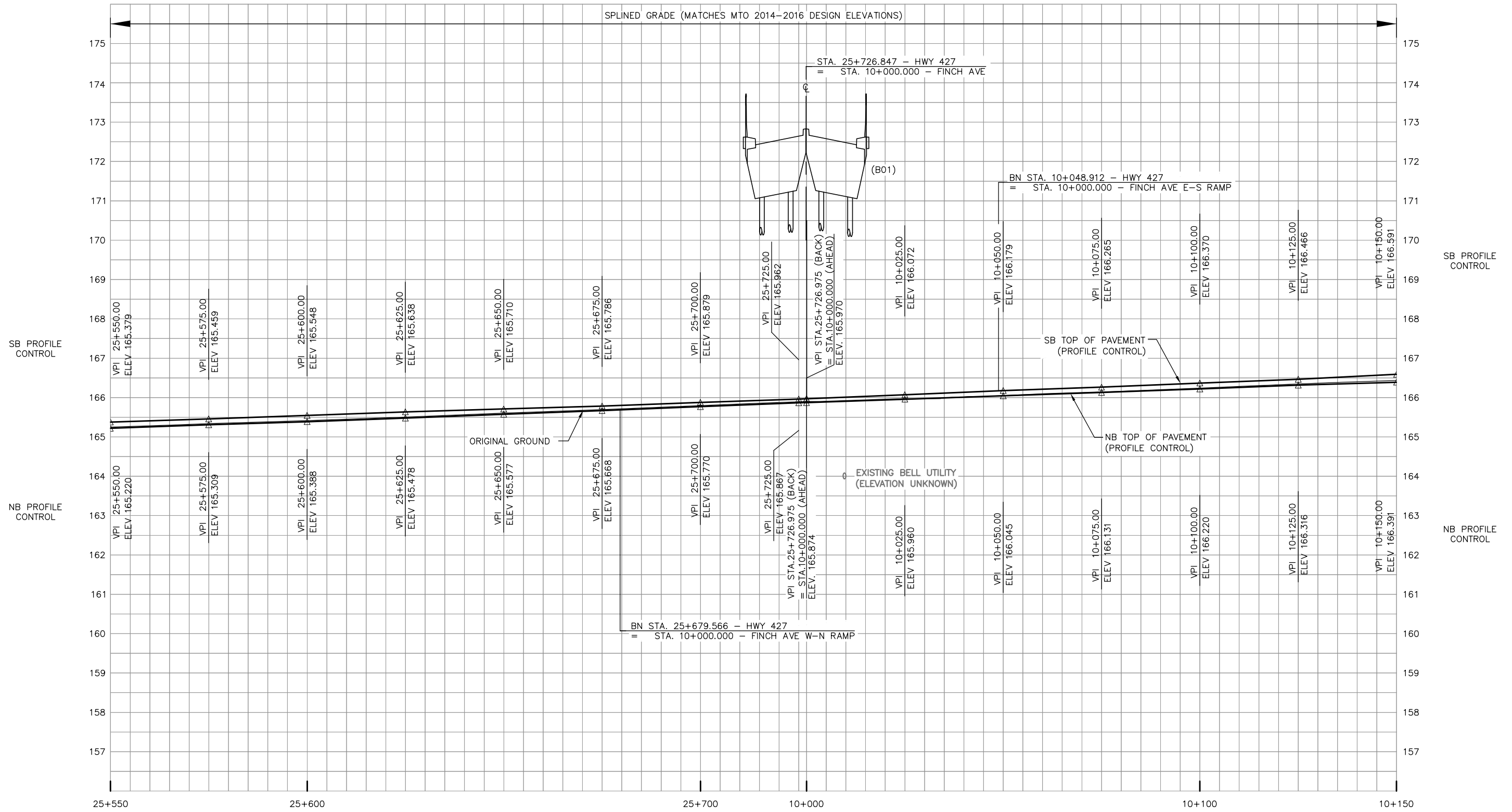


DESIGNED	PATRICK LECLERC	
DRAWN	DAVID SANOSA	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENG.	PATRICK LECLERC	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

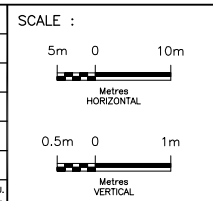


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 25+200 TO STA. 25+550							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0213	B

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DES.	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

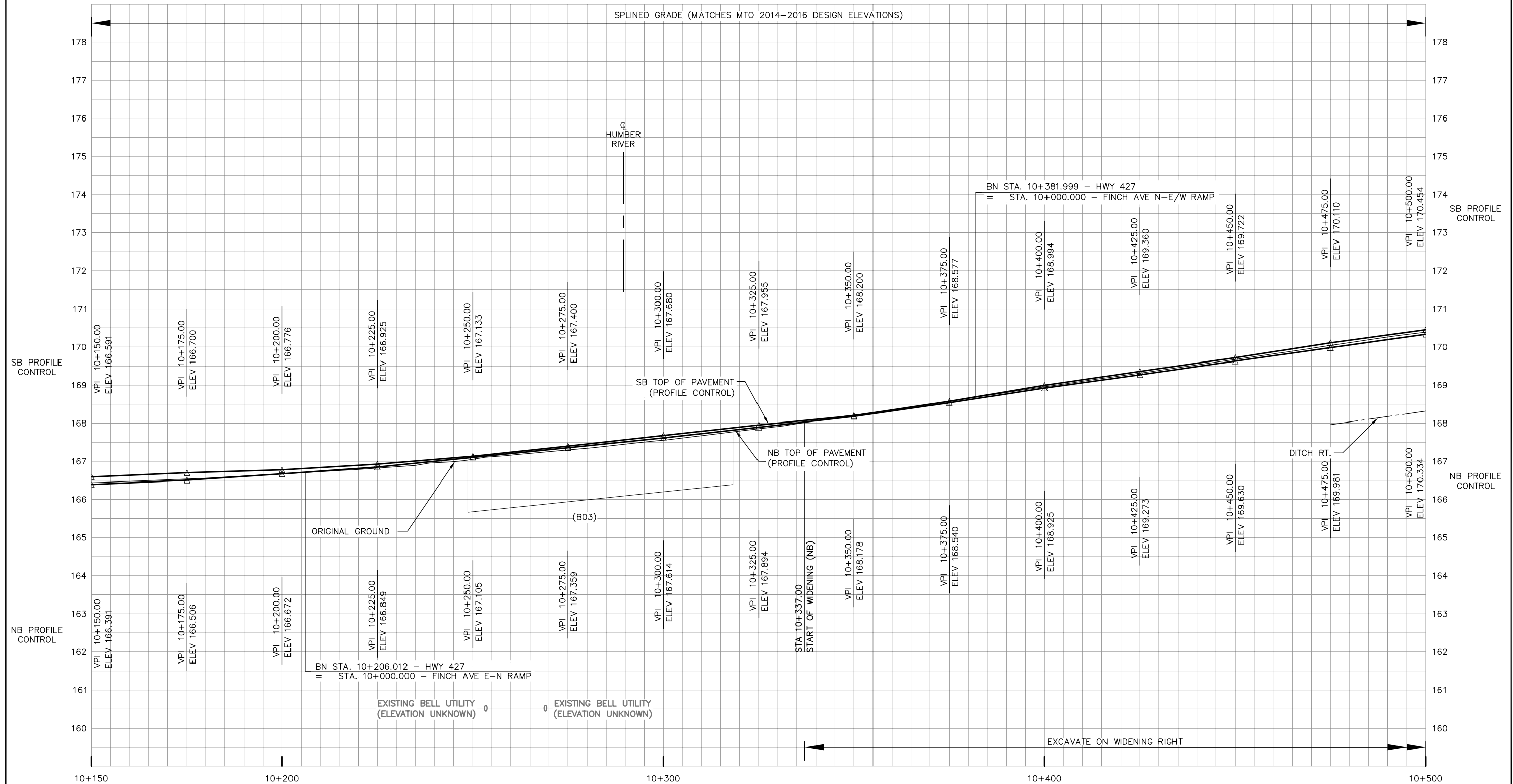


DESIGNED	PATRICK LECLERC	
DRAWN	DAVID SANOSA	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD DES.	PATRICK LECLERC	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)		INIT. DATE

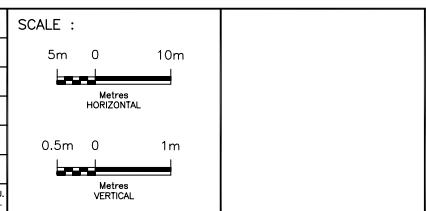


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 25+550 TO STA. 10+150							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0214	B

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				



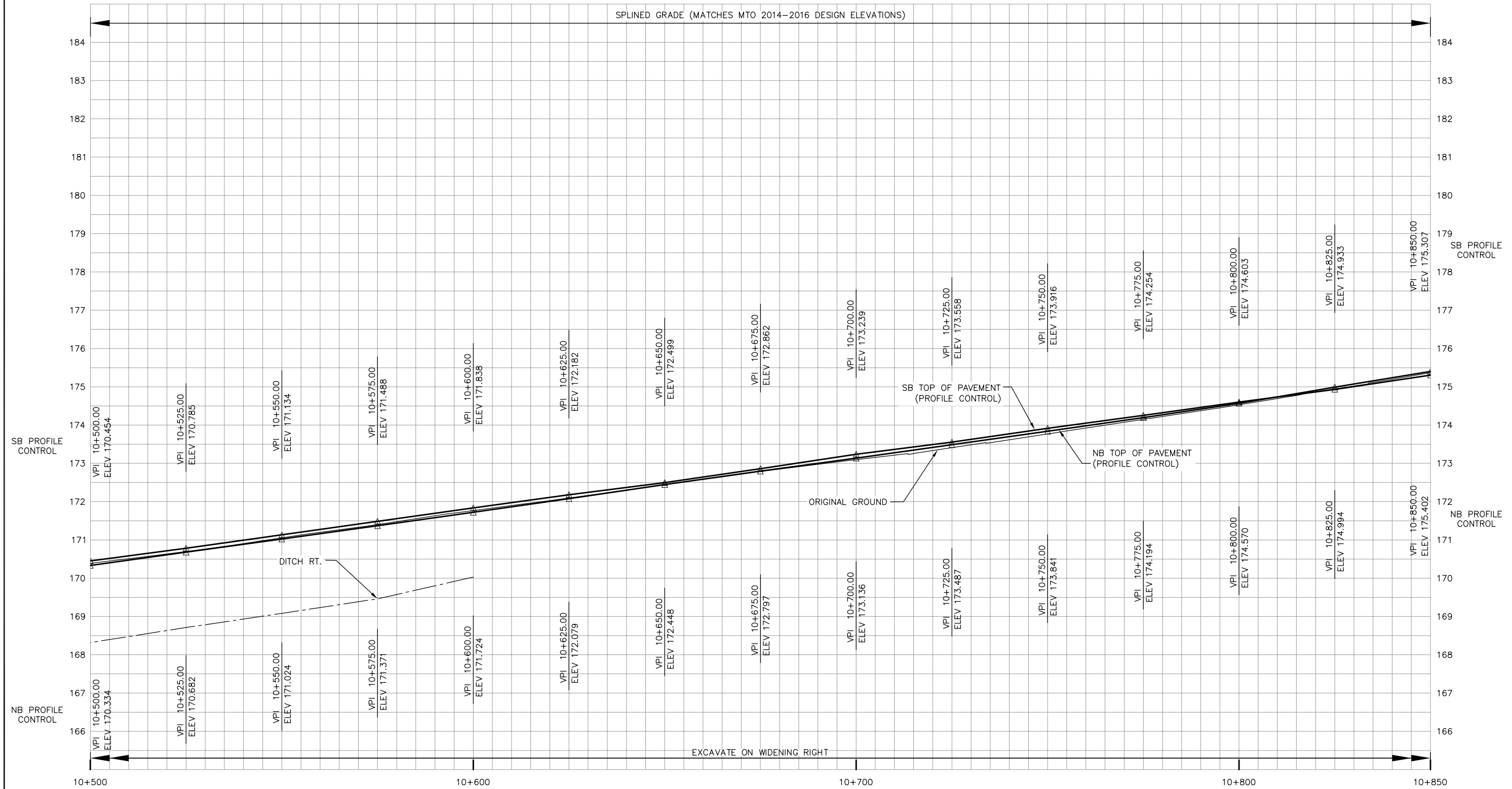
DESIGNED	PATRICK LECLERC	
DRAWN	DAVID SANOSA	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENG.	PATRICK LECLERC	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE



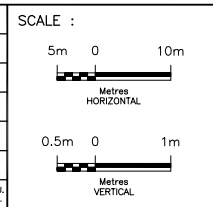
TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 10+150 TO STA. 10+500							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	DWG	000	HWY	0215	B

HIGHWAY 427

SPLINED GRADE (MATCHES MTO 2014-2016 DESIGN ELEVATIONS)



NO.	DATE	REVISIONS	BY	CHK	LEAD PRG	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				



DESIGNED	PATRICK LECLERC
DRAWN	DAVID SANOSA
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD PRG	PATRICK LECLERC
APPROVED PROJ. MANAGER	PETER BAMFORTH

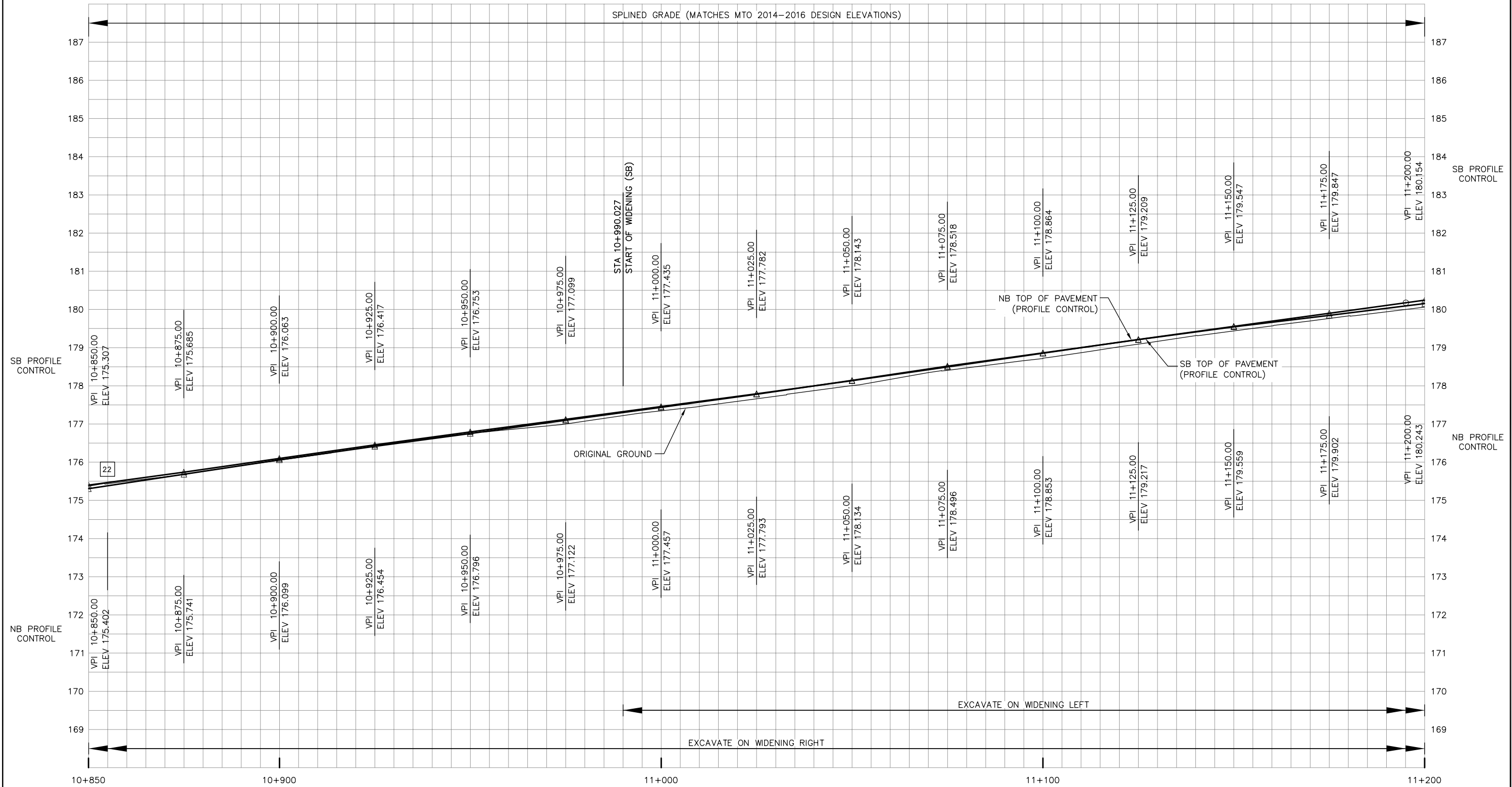
CONSULTANT	
NAME (PRINT)	
INIT.	
DATE	



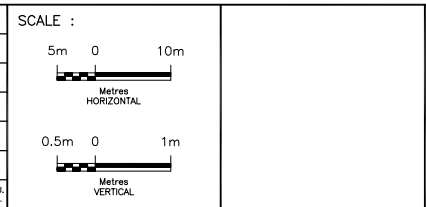
TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 10+500 TO STA. 10+850							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0216	B

HIGHWAY 427

SPLINED GRADE (MATCHES MTO 2014-2016 DESIGN ELEVATIONS)



NO.	DATE	REVISIONS
B	18/03/20	90% SUBMISSION TO CA
A	18/01/12	90% SUBMISSION TO CA

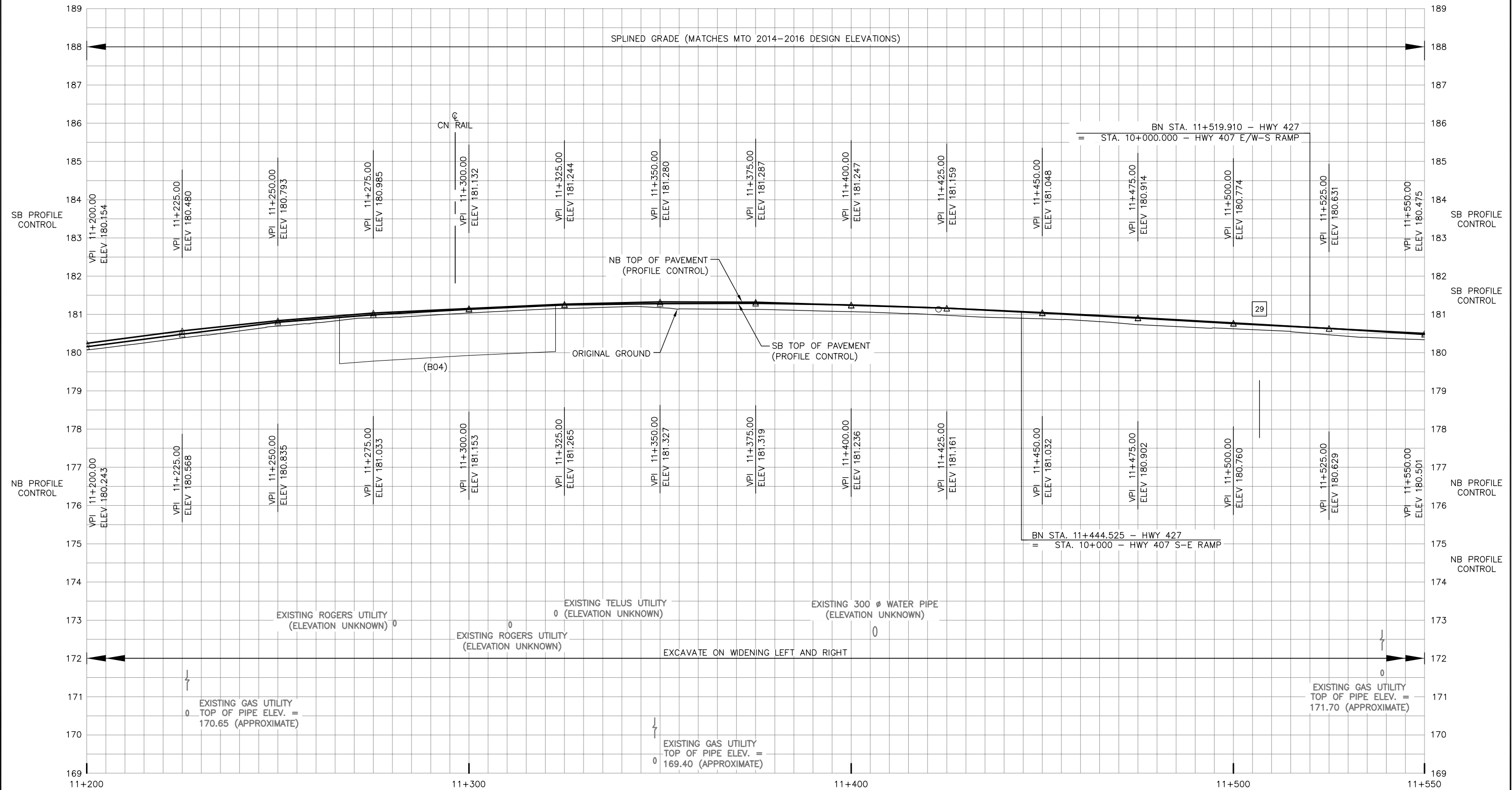


DESIGNED	PATRICK LECLERC	
DRAWN	DAVID SANOSA	
CHECKED	DUNCAN CAMPBELL	
APPROVED (LEAD ENG)	PATRICK LECLERC	
APPROVED (PROJ. MANAGER)	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

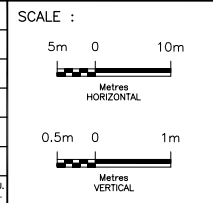


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 10+850 TO STA. 11+200							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0217	B

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

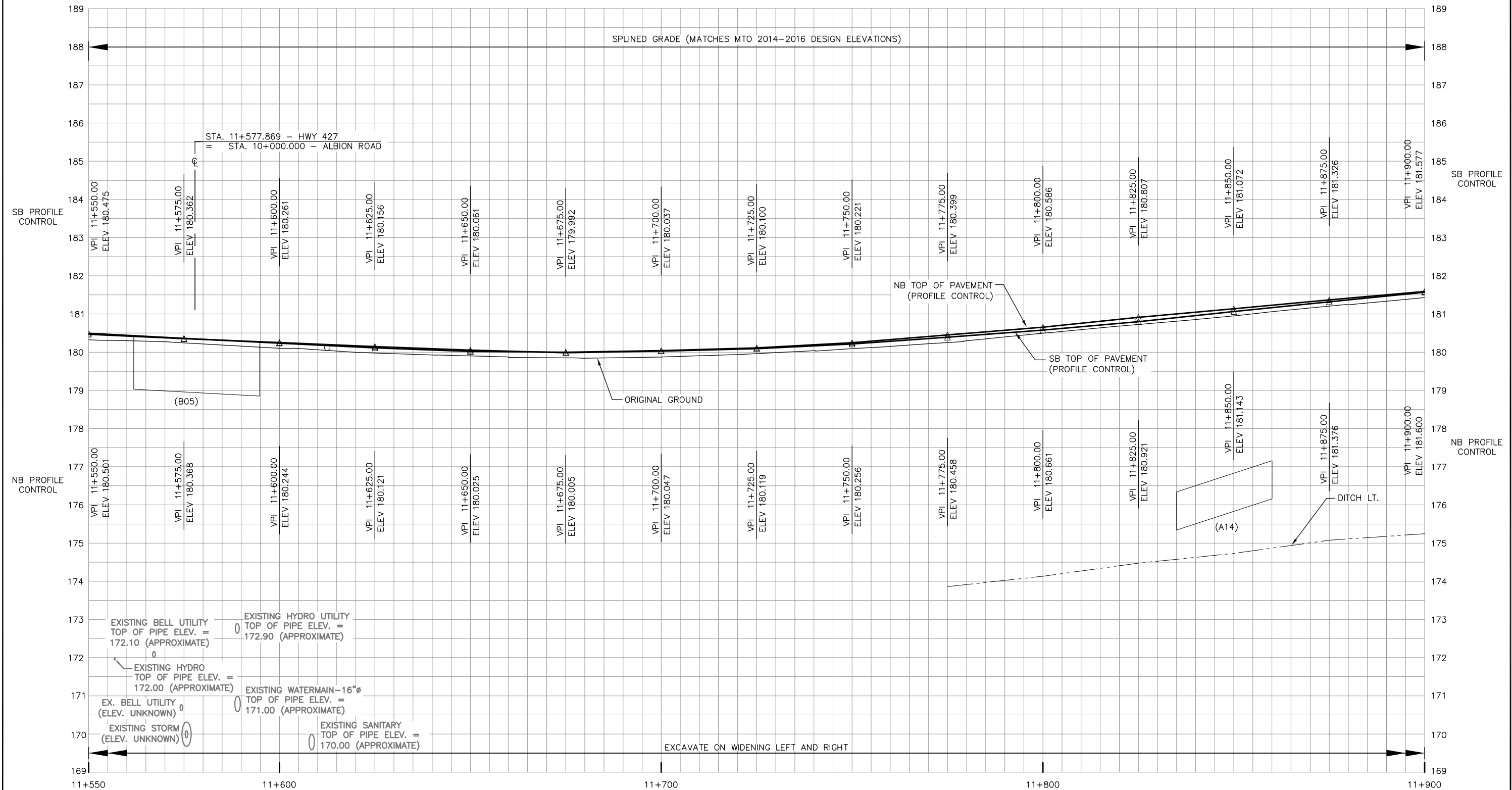


DESIGNED	PATRICK LECLERC
DRAWN	DAVID SANOSA
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	PATRICK LECLERC
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	
INIT.	
DATE	

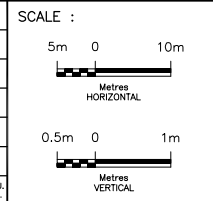


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 11+200 TO STA. 11+550							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0218	B

HIGHWAY 427



NO.	DATE	REVISIONS
B	18/03/20	90% SUBMISSION TO CA
A	18/01/12	90% SUBMISSION TO CA

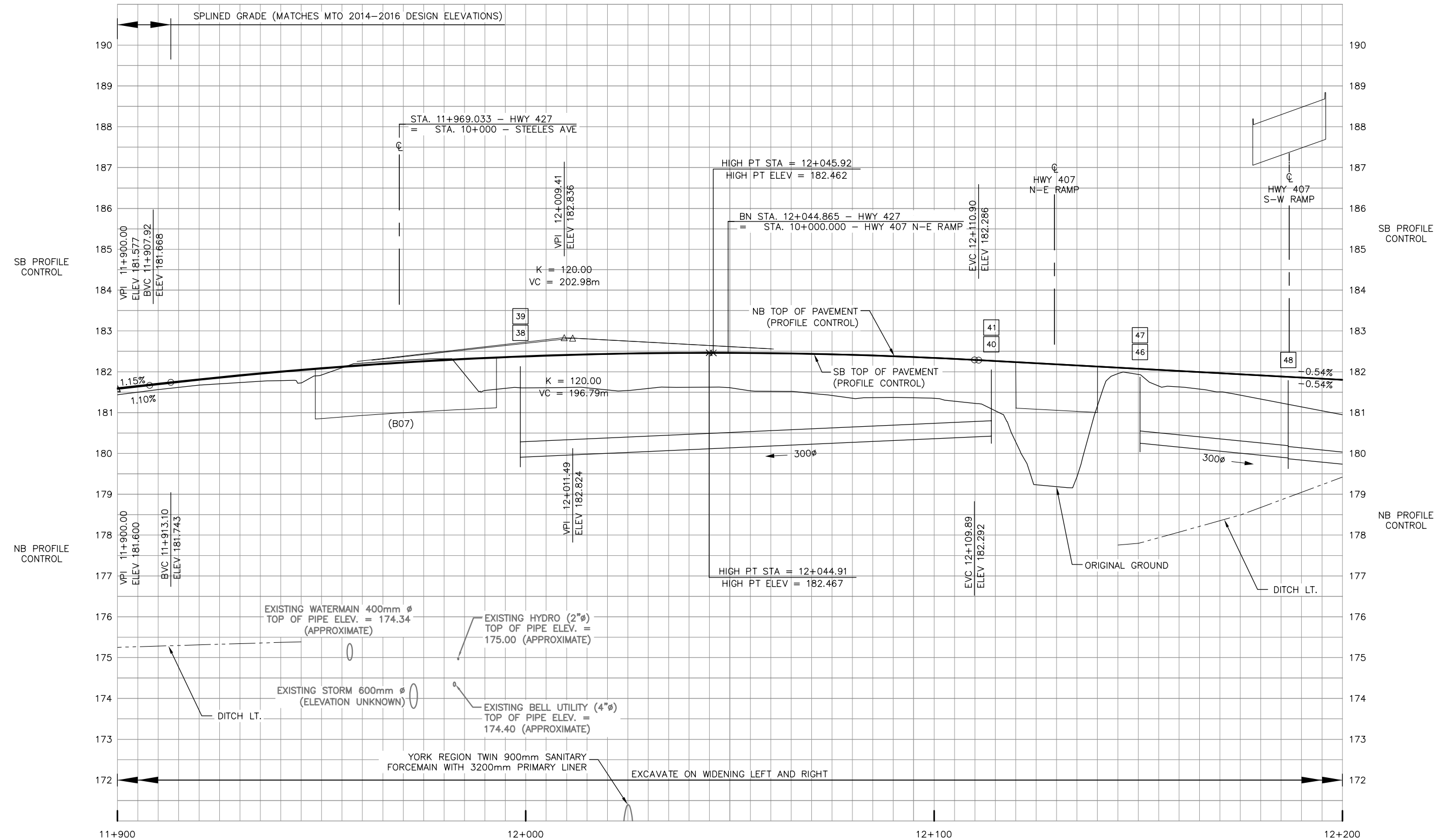


DESIGNED	PATRICK LECLERC	
DRAWN	DAVID SANOSA	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENG.	PATRICK LECLERC	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

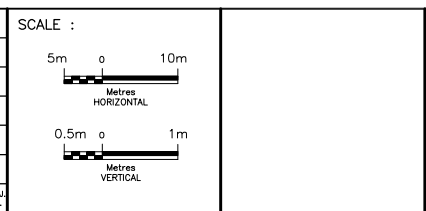


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 11+550 TO STA. 11+900							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0219	B

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

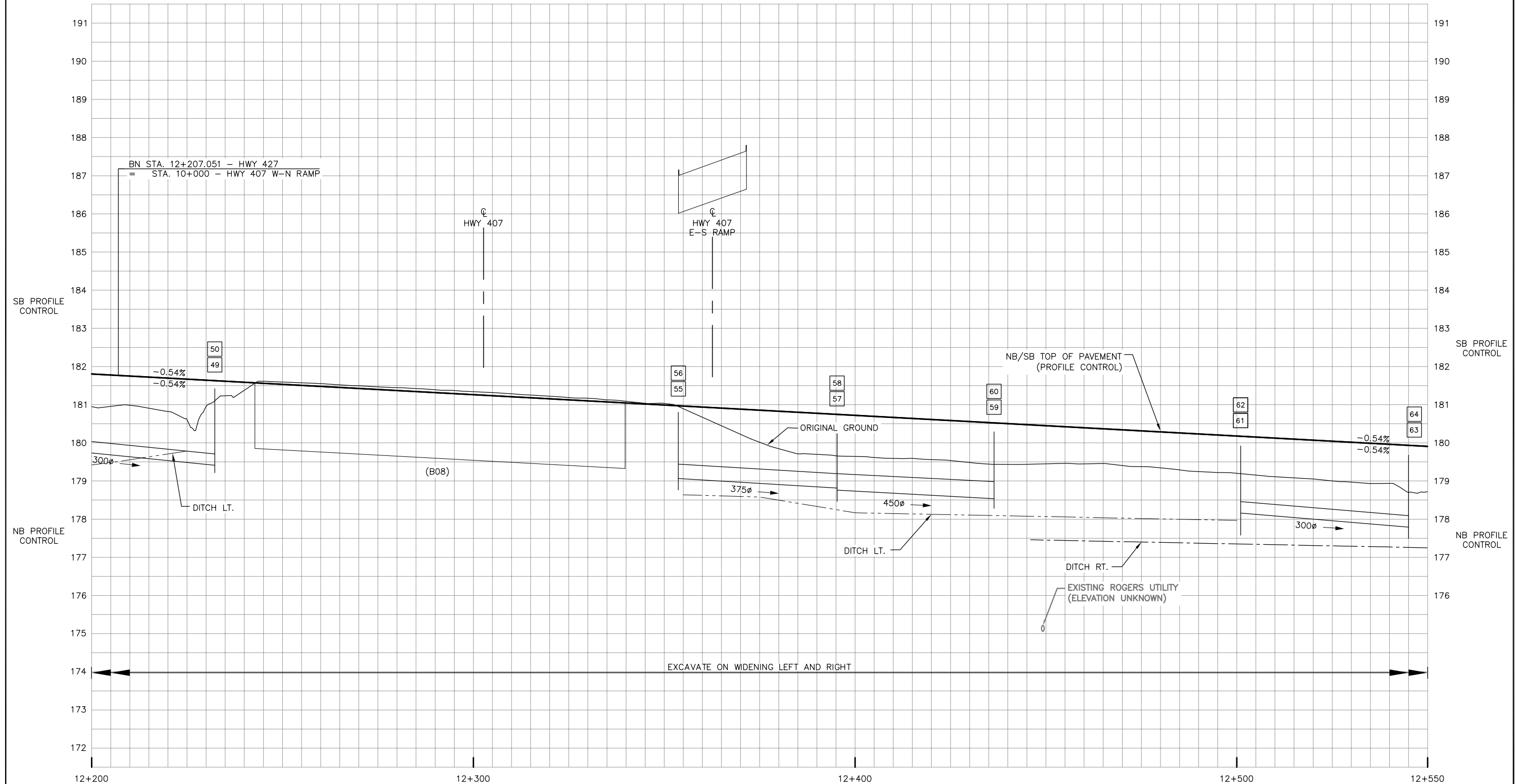


DESIGNED	PATRICK LECLERC	
DRAWN	DAVID SANOSA	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENG.	PATRICK LECLERC	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

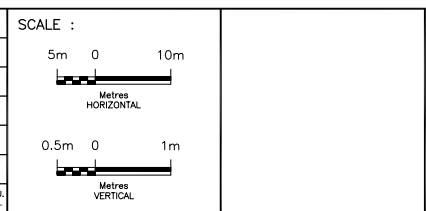


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 11+900 TO STA. 12+200							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0220	B

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DESG.	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

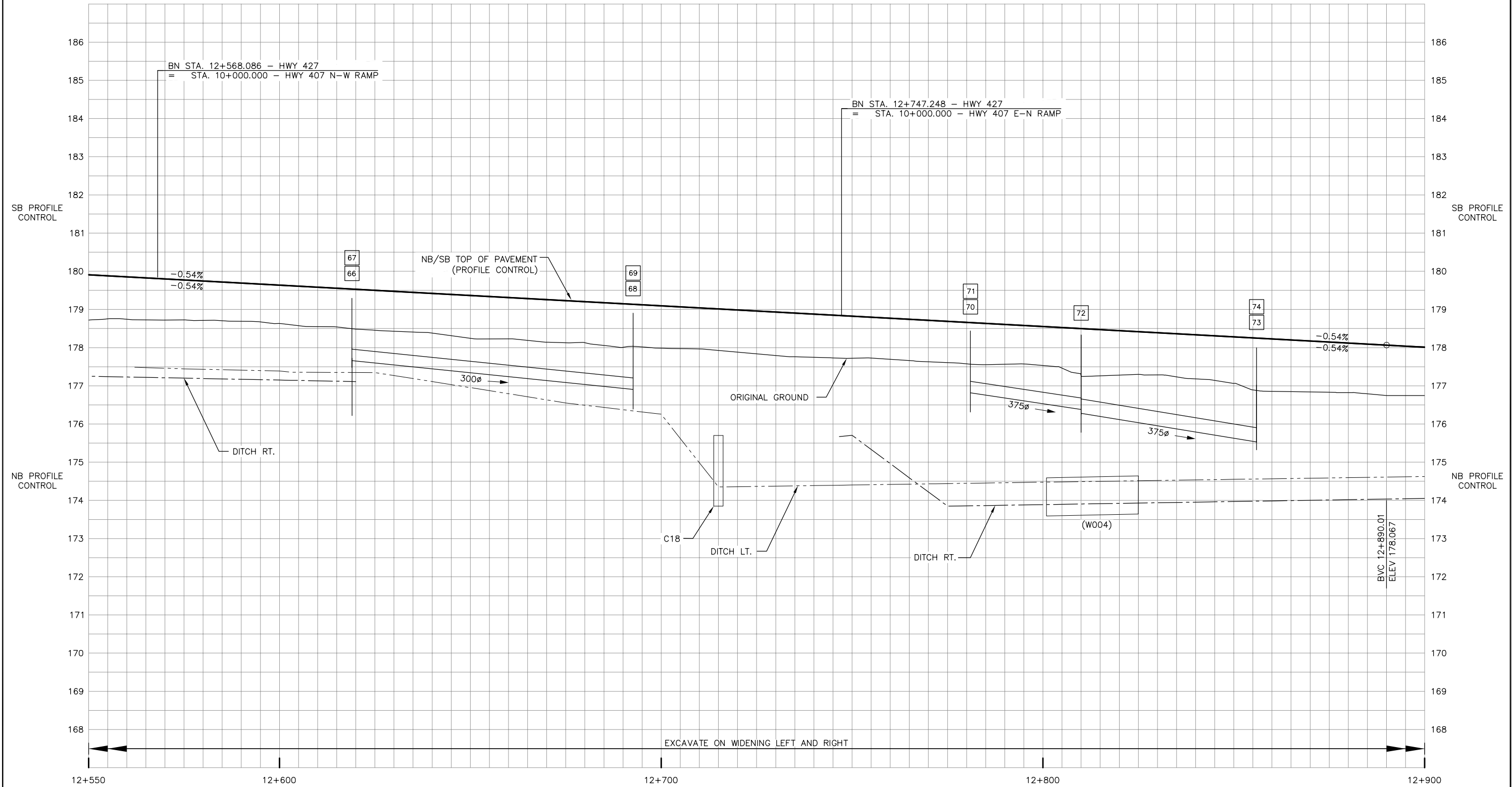


DESIGNED	PATRICK LECLERC	
DRAWN	DAVID SANOSA	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD DESG.	PATRICK LECLERC	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

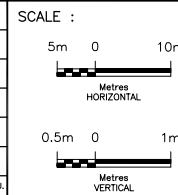


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 12+200 TO STA. 12+550							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0221	B

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DESG	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

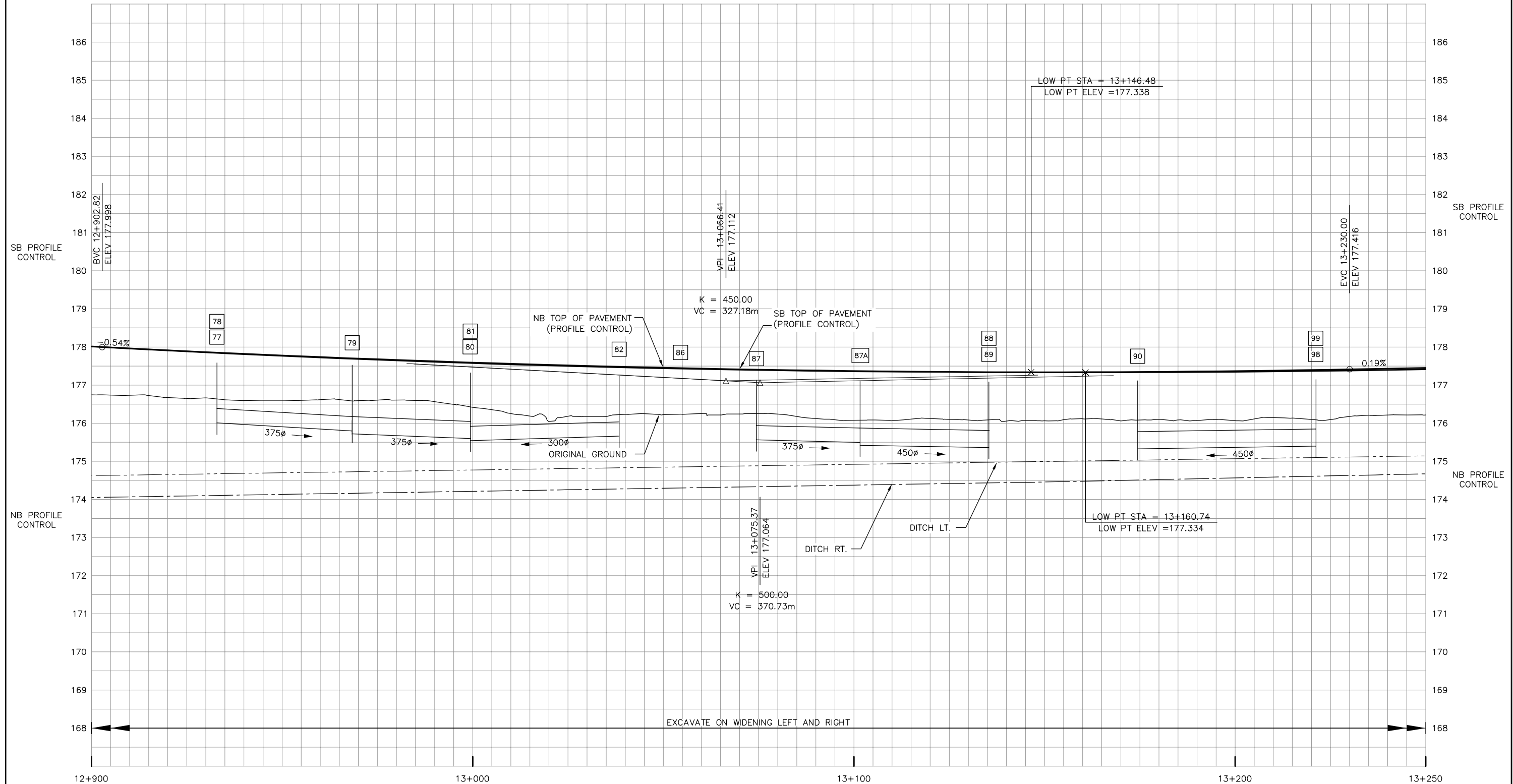


DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD DESG.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE

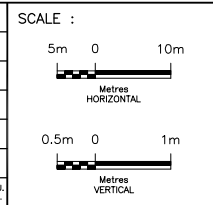


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 12+550 TO STA. 12+900							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0222	B

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DES.	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

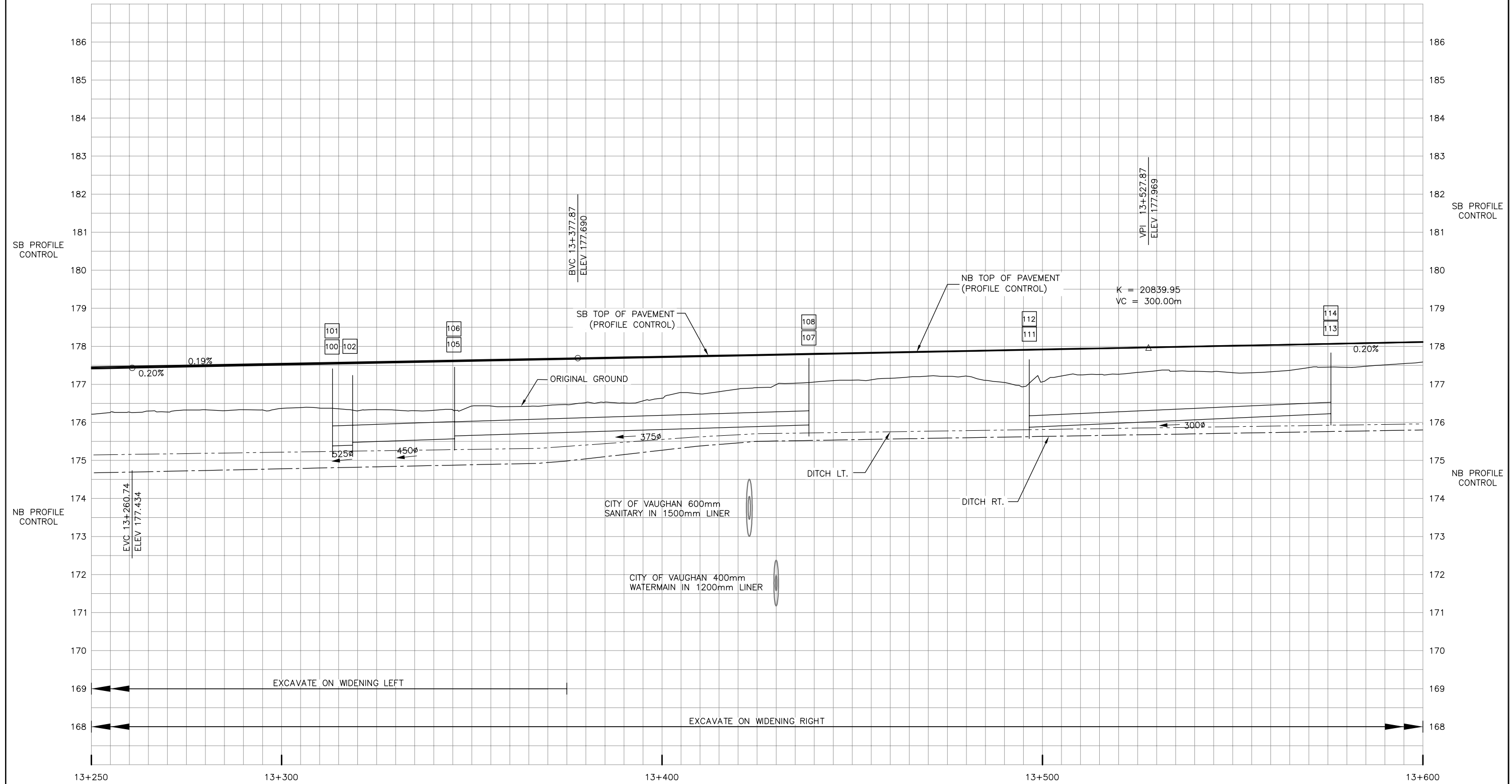


DESIGNED	PATRICK LECLERC
DRAWN	DAVID SANOSA
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD DES.	PATRICK LECLERC
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	INIT. DATE



TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 12+900 TO STA. 13+250							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0223	B

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DESG.	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

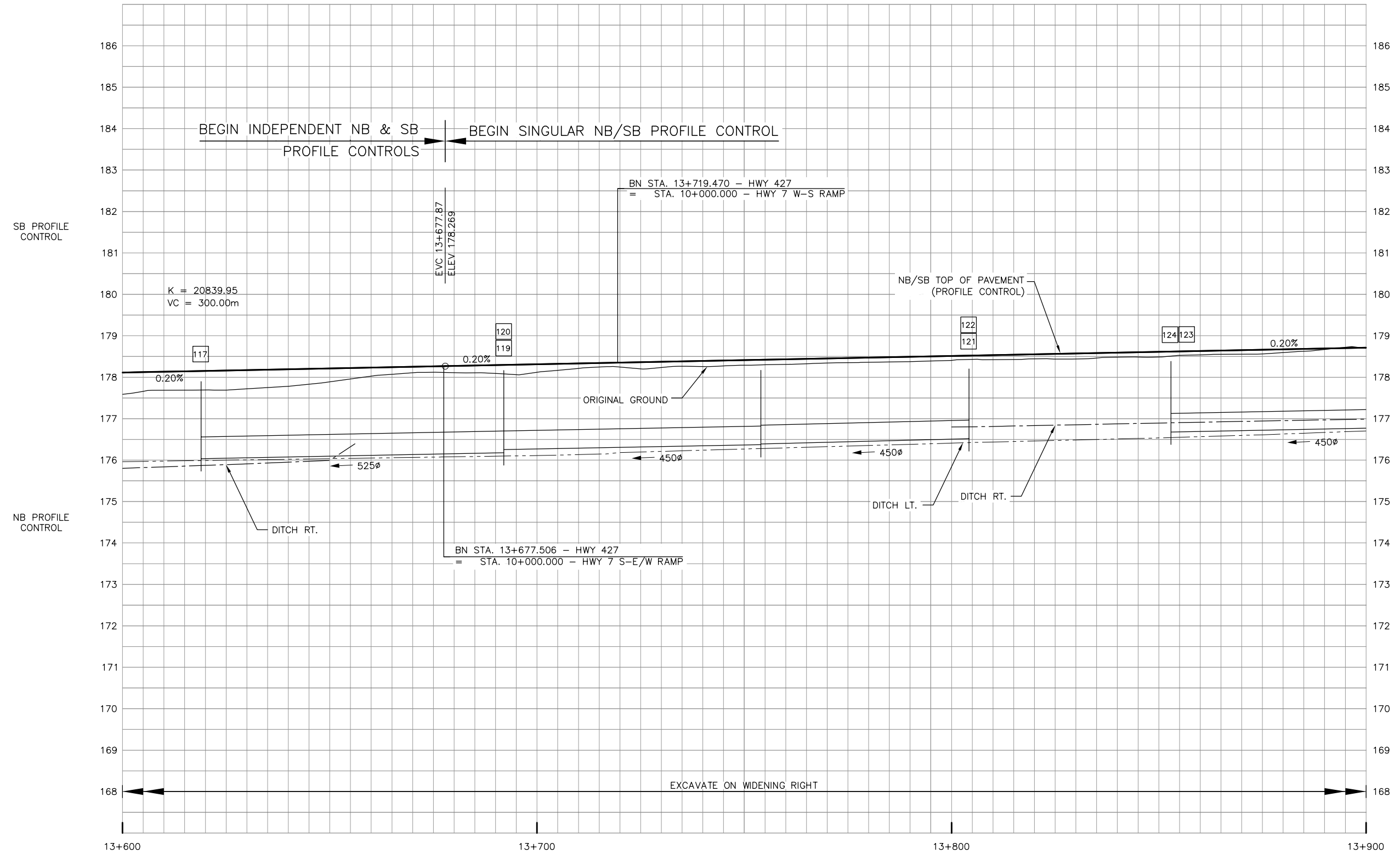
DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE

CONSULTANT	
DESIGNED	PATRICK LECLERC
DRAWN	DAVID SANOSA
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	PATRICK LECLERC
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	
INIT.	
DATE	

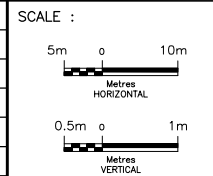


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 13+250 TO STA. 13+600							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0224	B

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ
					DISC.	MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

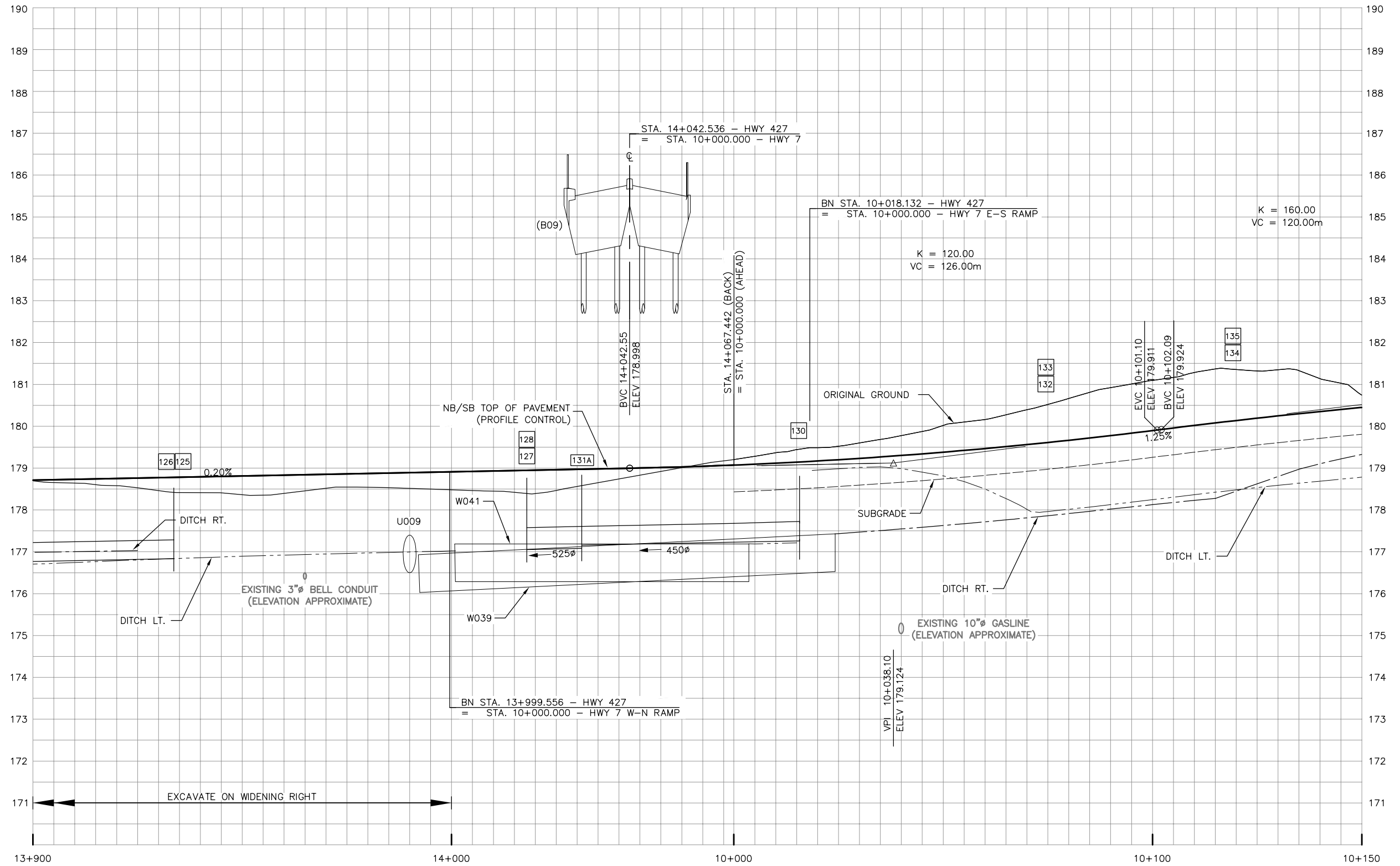


DESIGNED	PATRICK LECLERC
DRAWN	DAVID SANOSA
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	PATRICK LECLERC
APPROVED PROJ. MANAGER	PETER BAMFORTH
CONSULTANT	
NAME (PRINT)	
INIT.	
DATE	

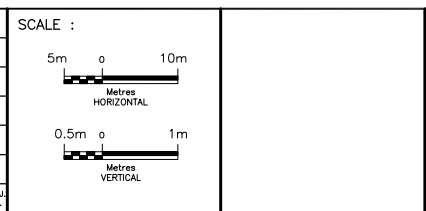


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 13+600 TO STA. 13+900							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0225	B

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
				DISC.	MAN.	MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

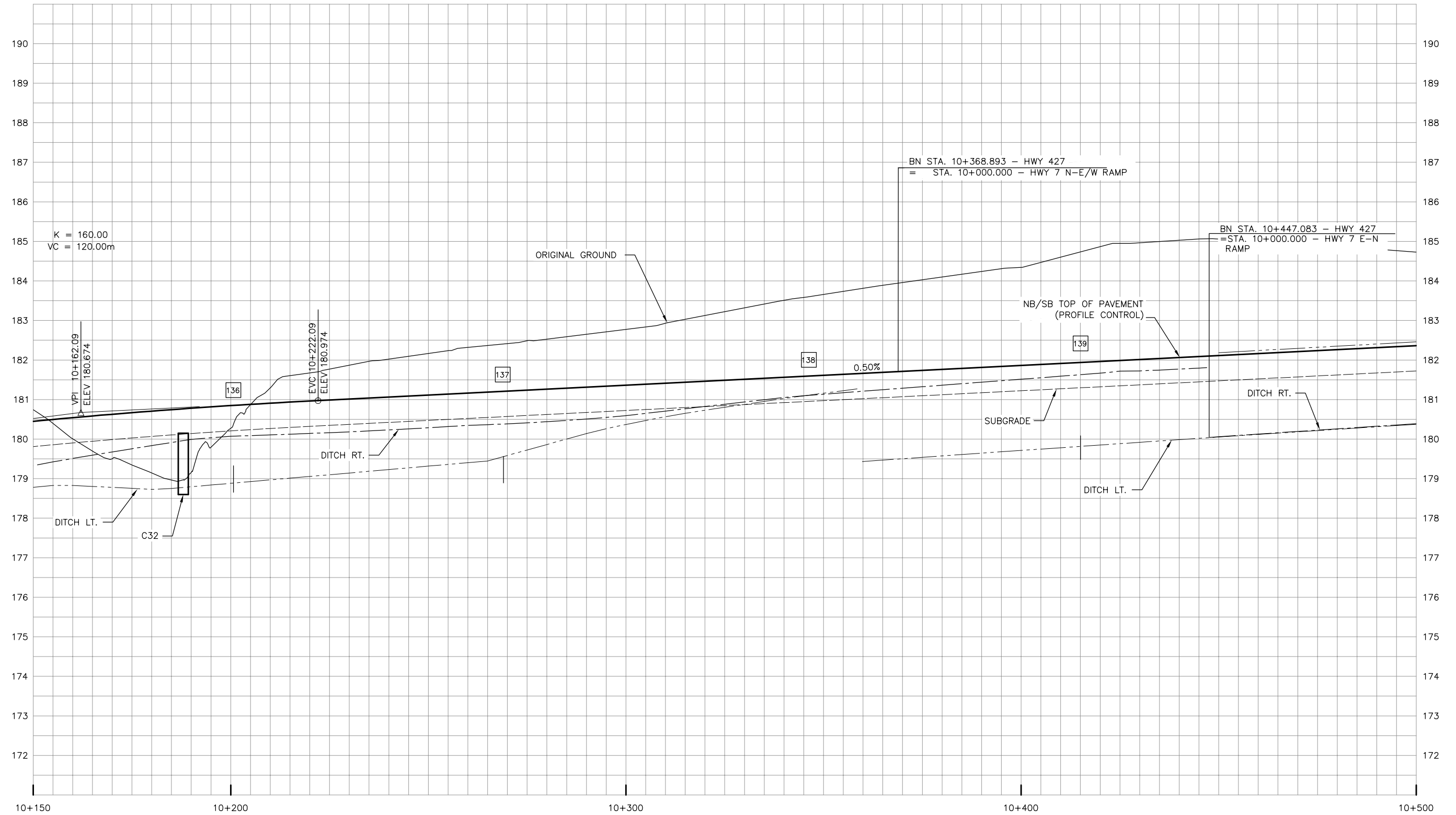


DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
		NAME (PRINT)	INIT. DATE

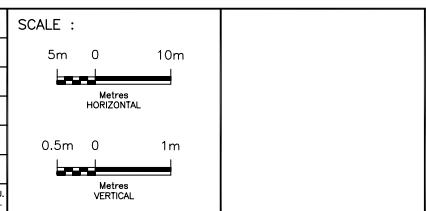


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 13+900 TO STA. 10+150							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0226	B

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
					ENG.	MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				



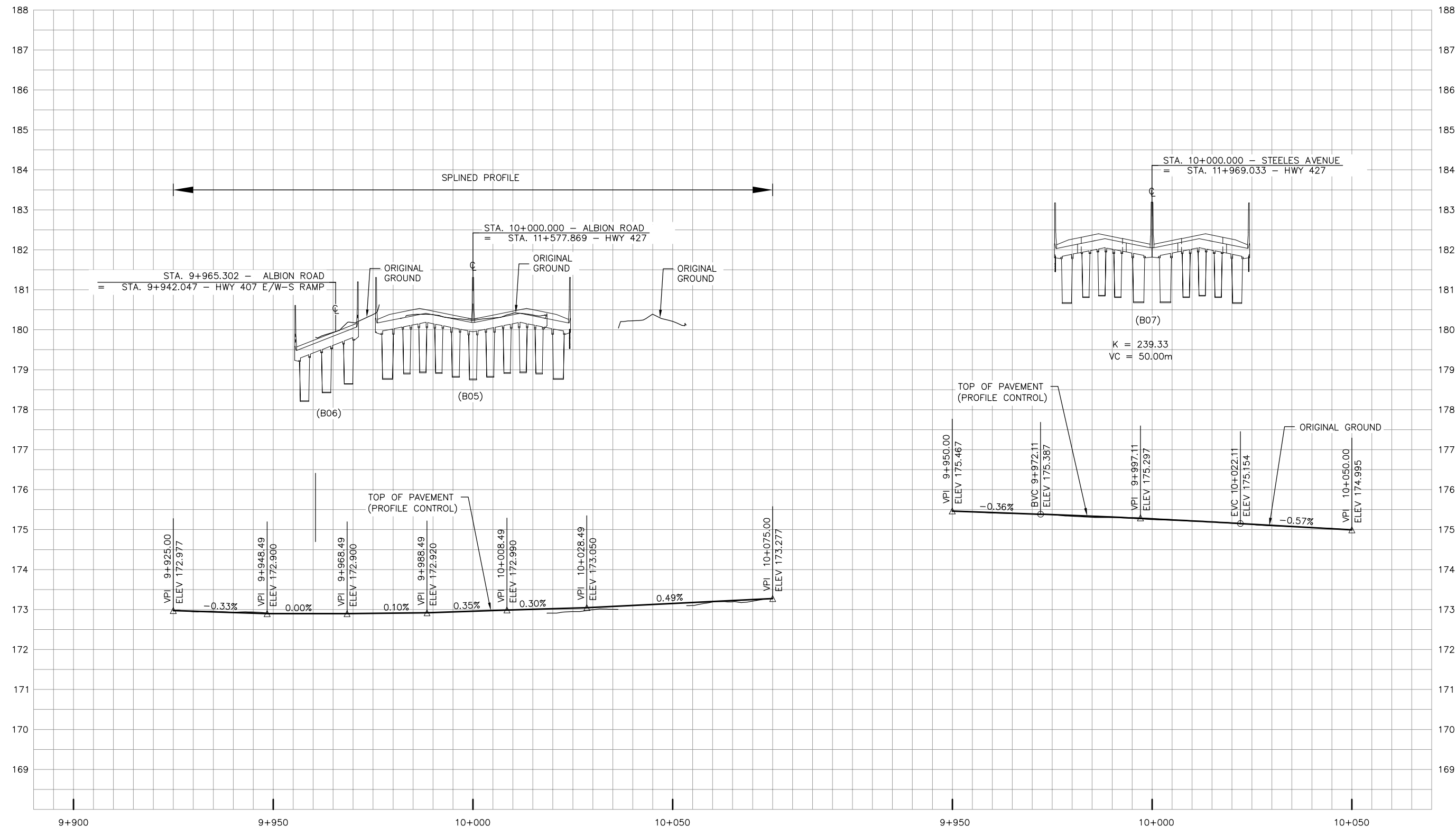
DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE



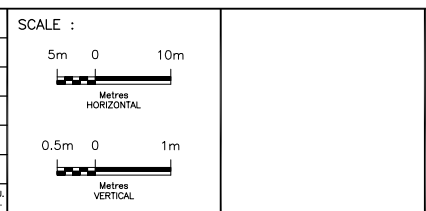
TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 10+150 TO STA. 10+500							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0227	B

ALBION ROAD

STEELES AVENUE



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

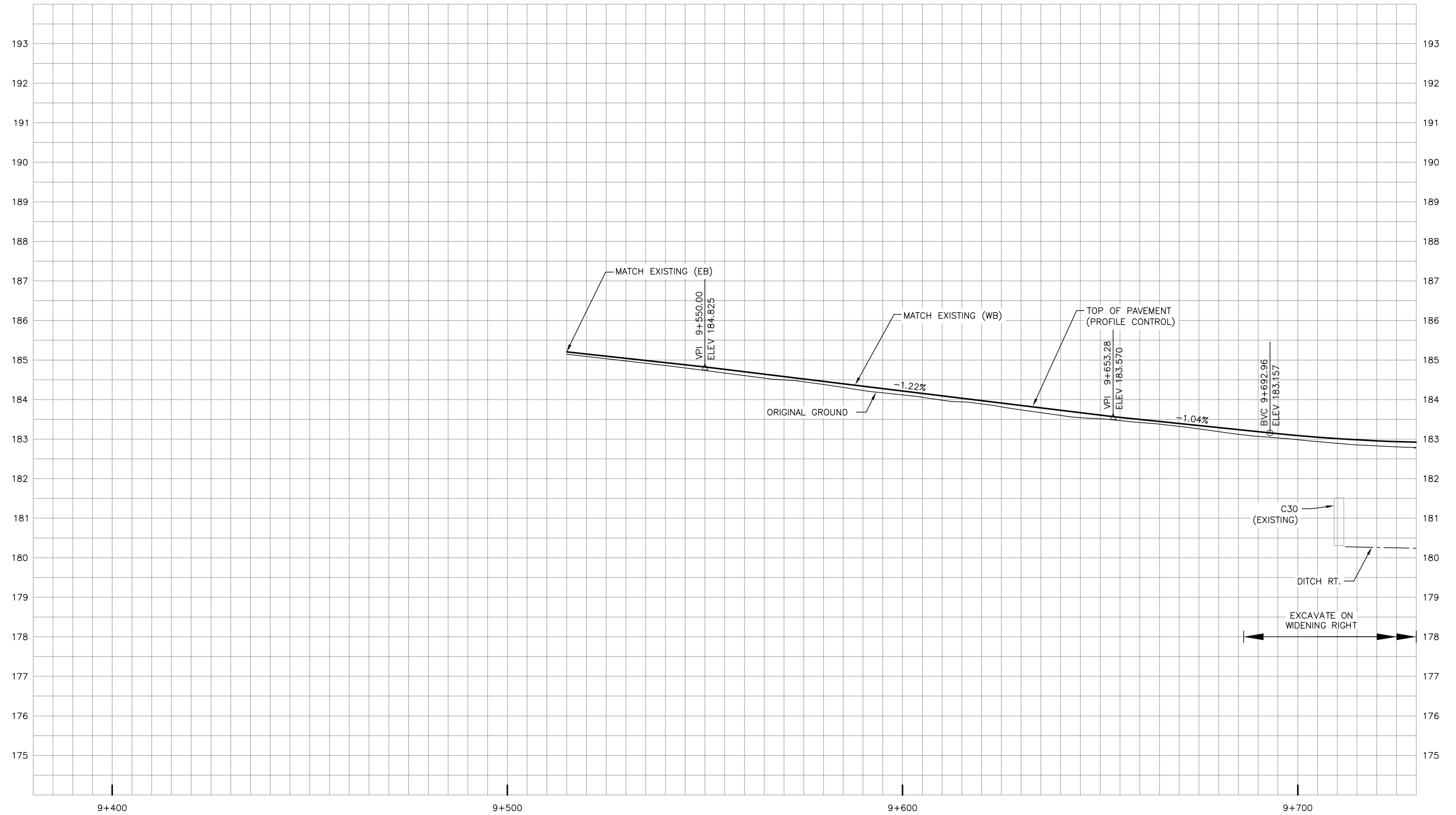


DESIGNED	PATRICK LECLERC
DRAWN	DAVID SANOSA
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	PATRICK LECLERC
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	INIT. DATE

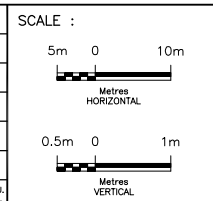


TITLE							
HWY 427 EXPANSION							
PROFILE							
ALBION ROAD & STEELES AVENUE							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0228	B

HIGHWAY 7



NO.	DATE	REVISIONS	BY	CHK	LEAD DESG	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

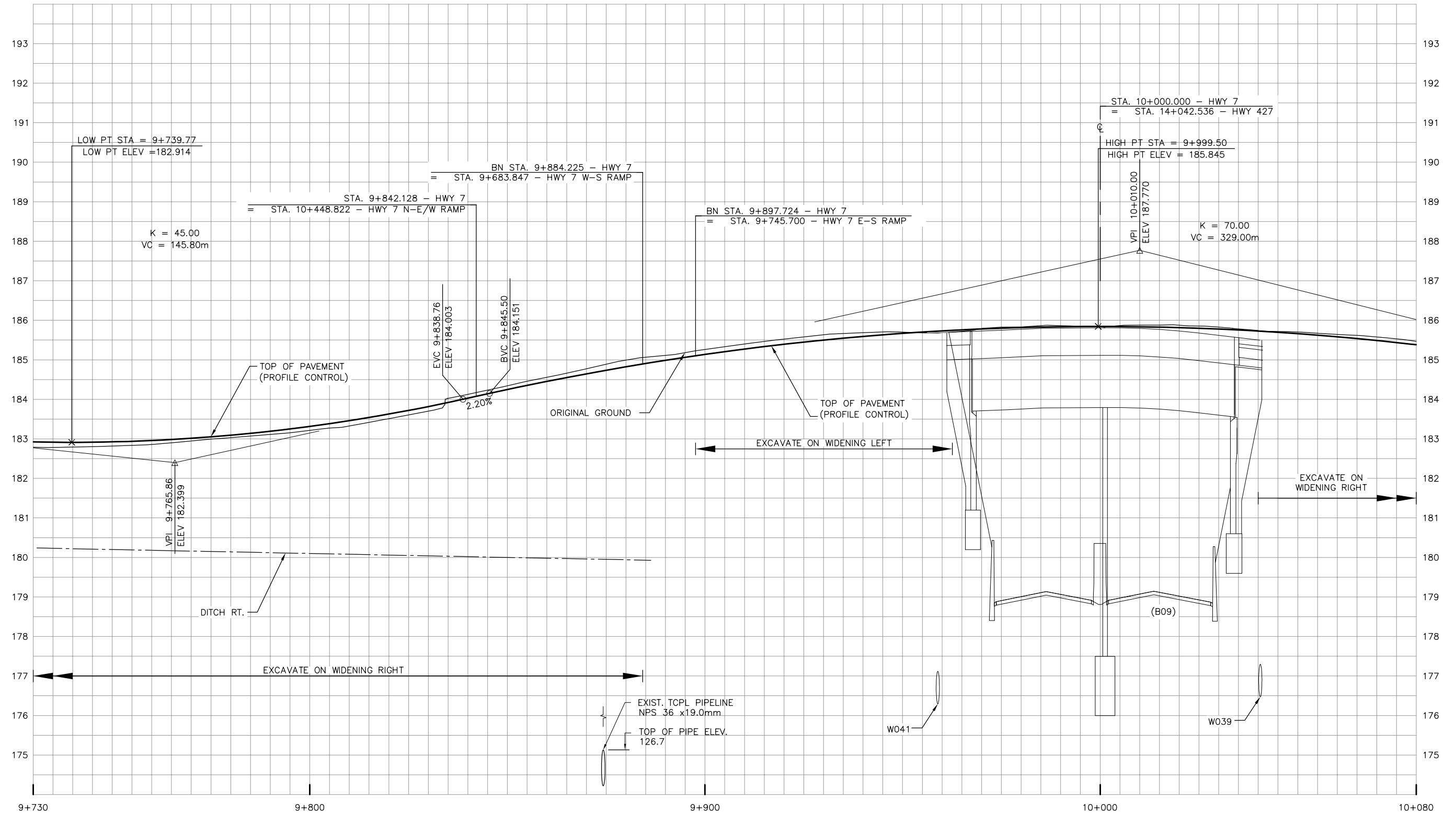


DESIGNED	PATRICK LECLERC	
DRAWN	DAVID SANOSA	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD DESG	PATRICK LECLERC	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

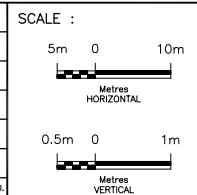


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+515 TO STA. 9+730							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0229	B

HIGHWAY 7



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				



DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE



TITLE

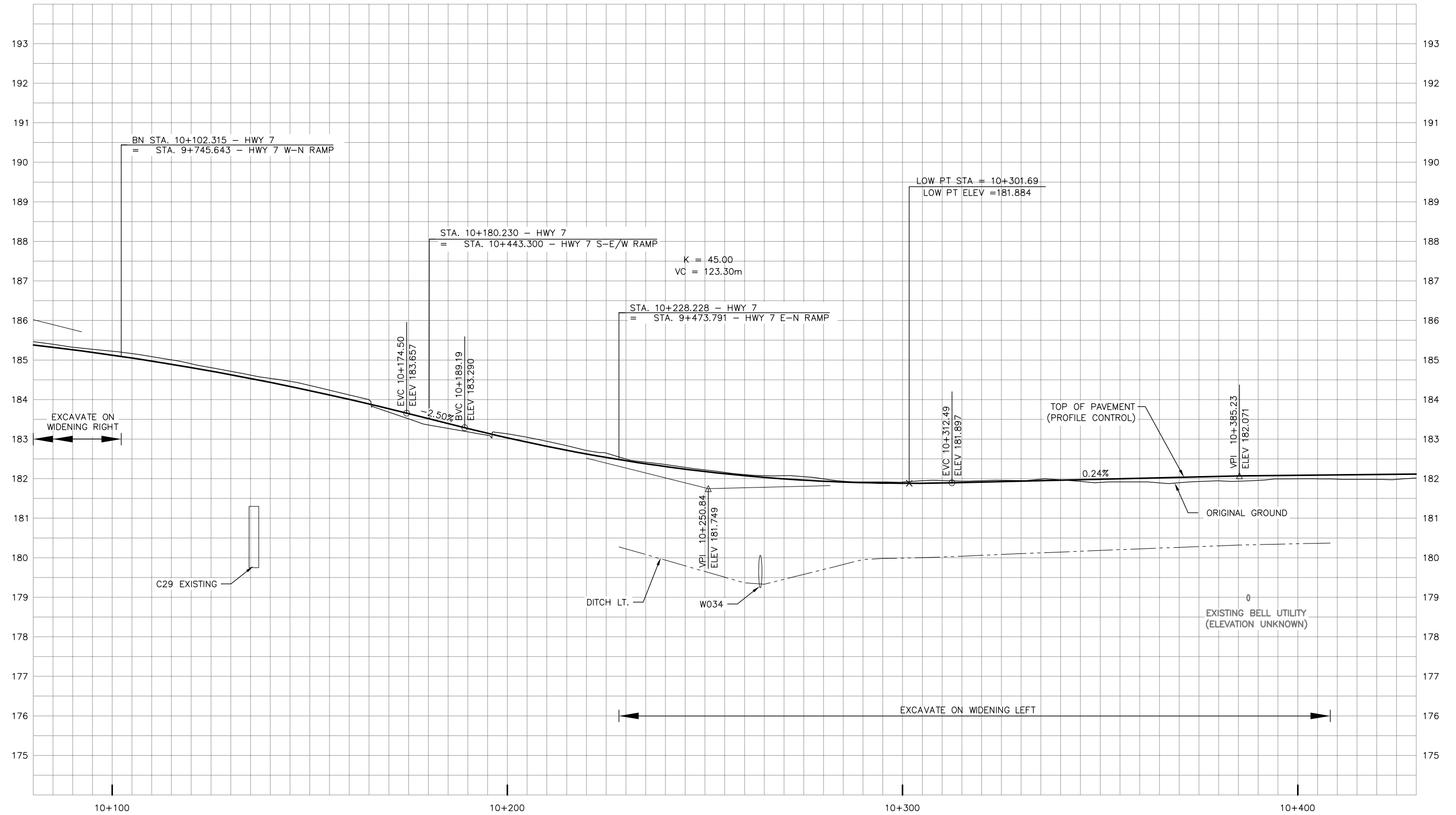
HWY 427 EXPANSION

PROFILE

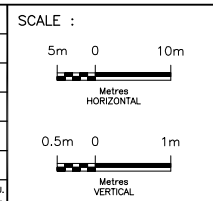
STA. 9+730 TO STA. 10+080

PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0230	B

HIGHWAY 7



NO.	DATE	REVISIONS	BY	CHK	LEAD DESG.	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

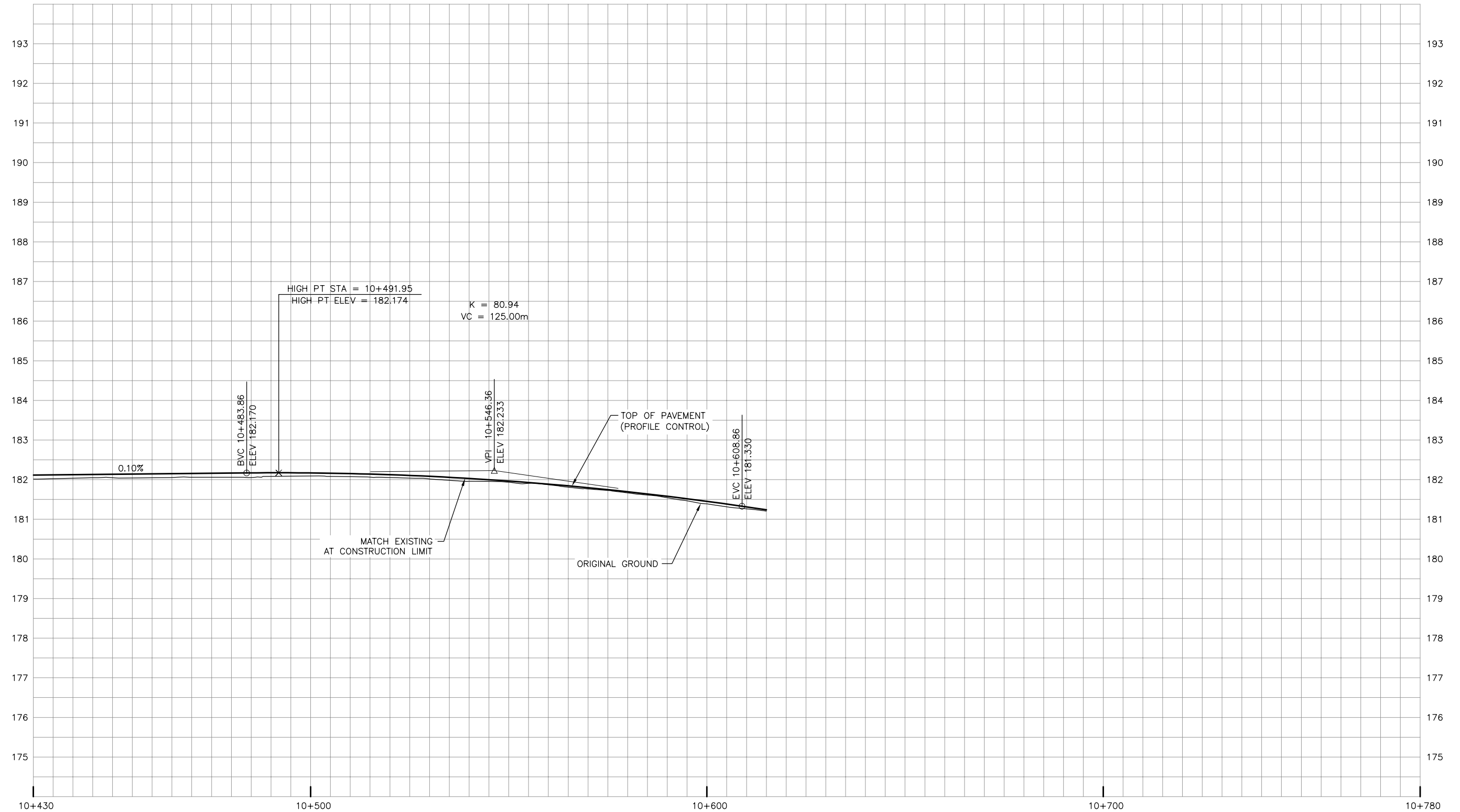


DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD DESG.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE

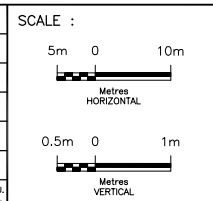


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 10+080 TO STA. 10+430							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0231	B

HIGHWAY 7



NO.	DATE	REVISIONS	BY	CHK	LEAD DES.	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

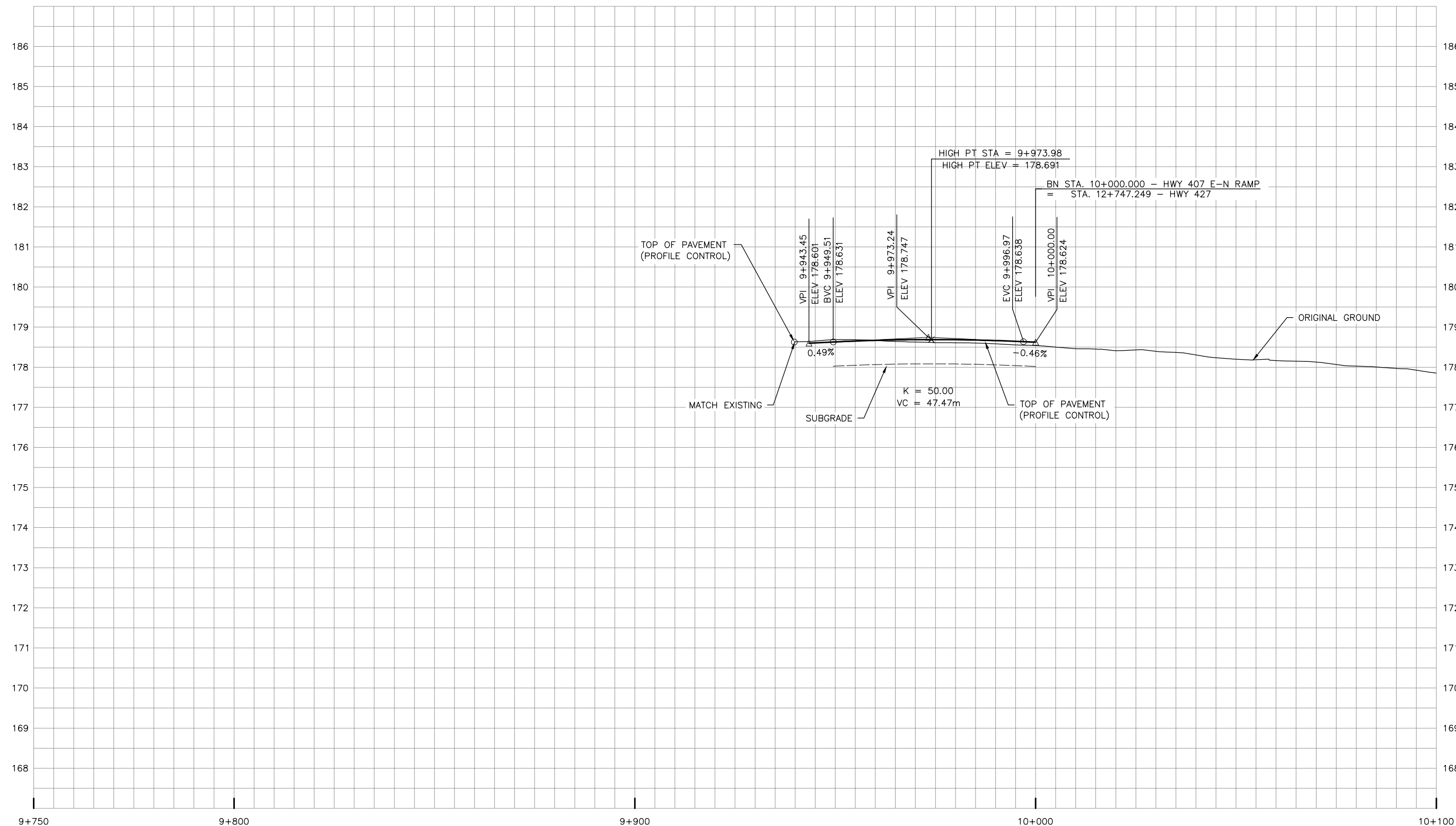


DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE

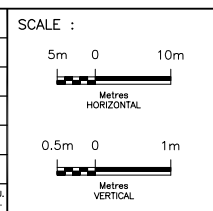


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 10+430 TO STA. 10+780							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0232	B

HIGHWAY 407 E – HIGHWAY 407 N RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DESG.	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

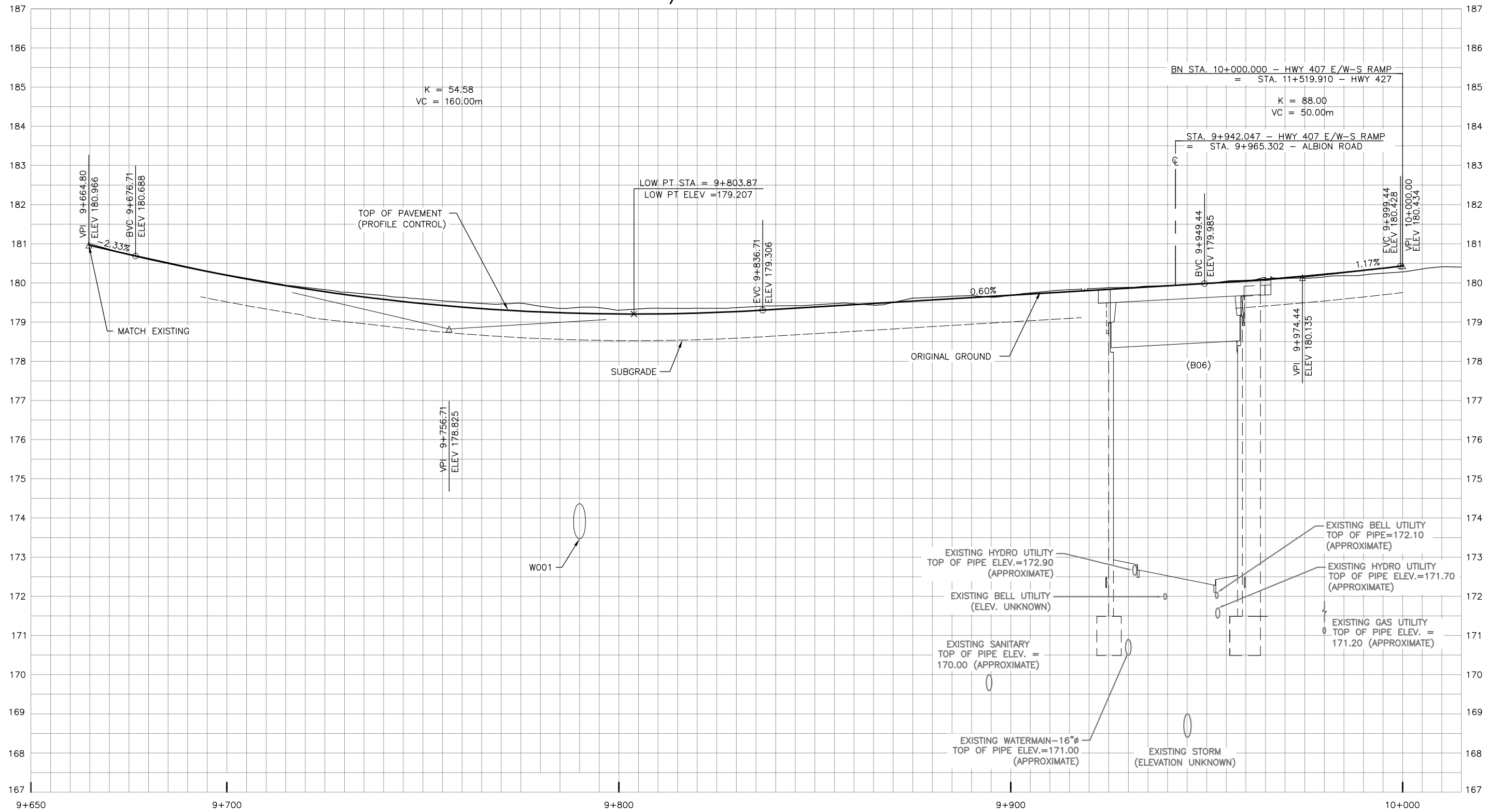


DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD DESG.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
		DATE	

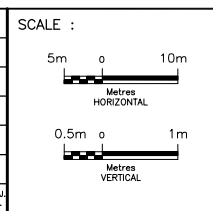


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+943 TO STA. 10+000							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0233	B

HIGHWAY 407 E/W – HIGHWAY 427 S RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				



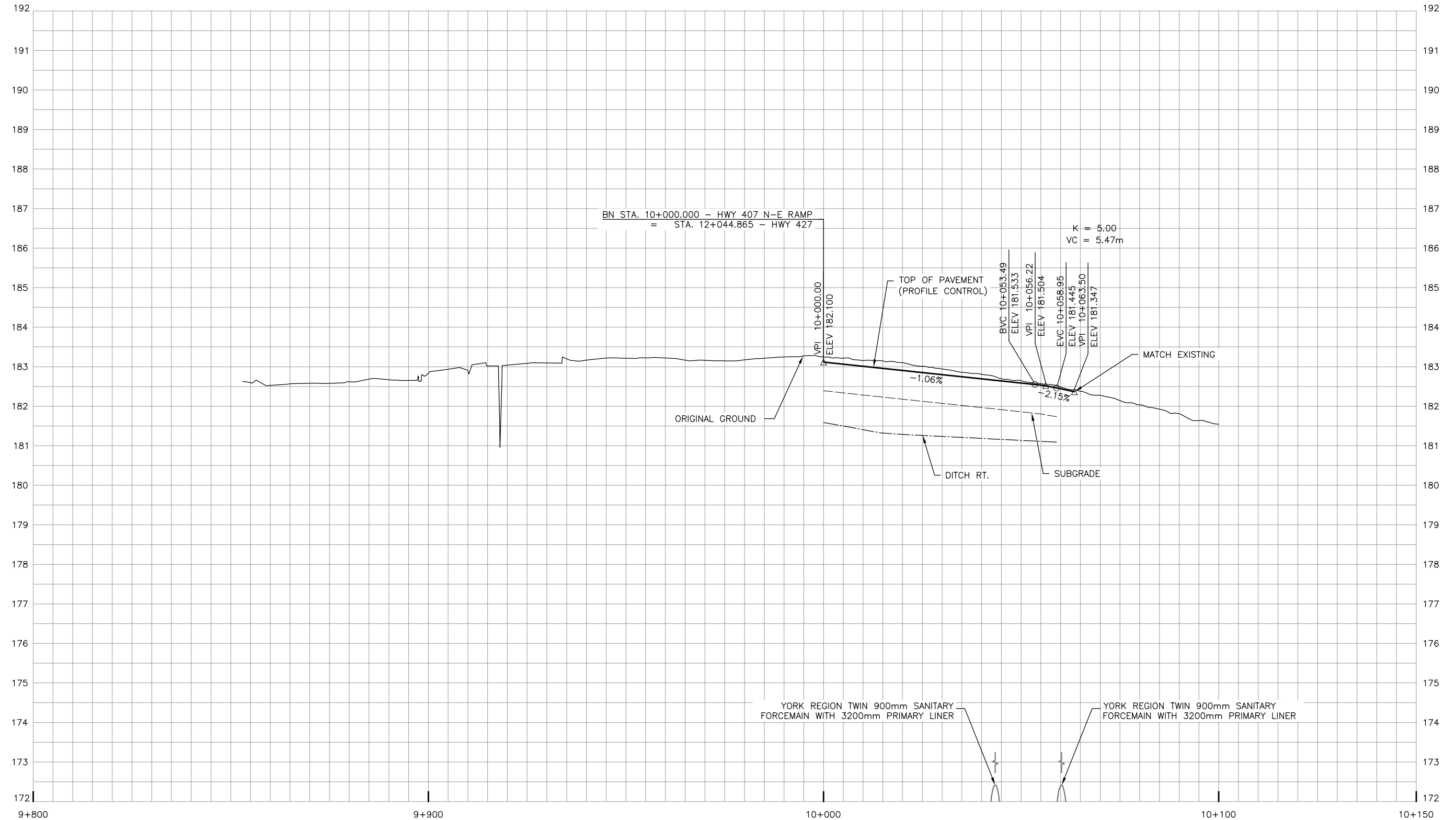
DESIGNED	PATRICK LECLERC
DRAWN	DAVID SANOSA
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	PATRICK LECLERC
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	INIT. DATE

CONSULTANT	
DESIGNED	PATRICK LECLERC
DRAWN	DAVID SANOSA
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	PATRICK LECLERC
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	INIT. DATE

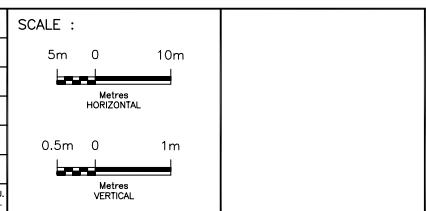


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+665 TO STA. 10+000							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	0	DWG	0234	B

HIGHWAY 407 N – HIGHWAY 427 E RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DESG	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

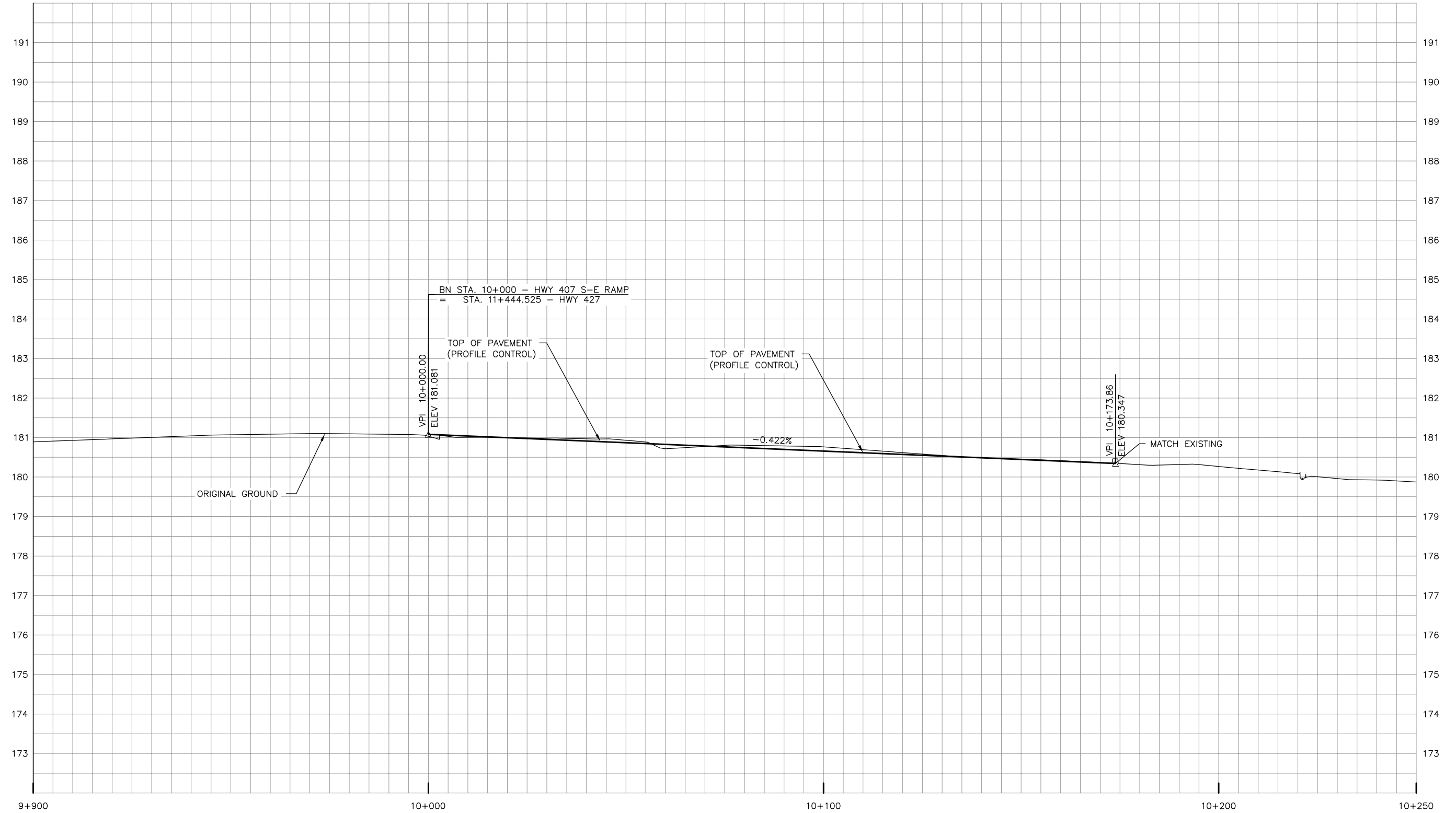


DESIGNED	PATRICK LECLERC	
DRAWN	DAVID SANOSA	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD DESG.	PATRICK LECLERC	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

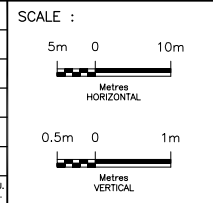


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 10+000 TO STA. 10+064							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0235	B

HIGHWAY 407 S – HIGHWAY 427 E/W RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DESG	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

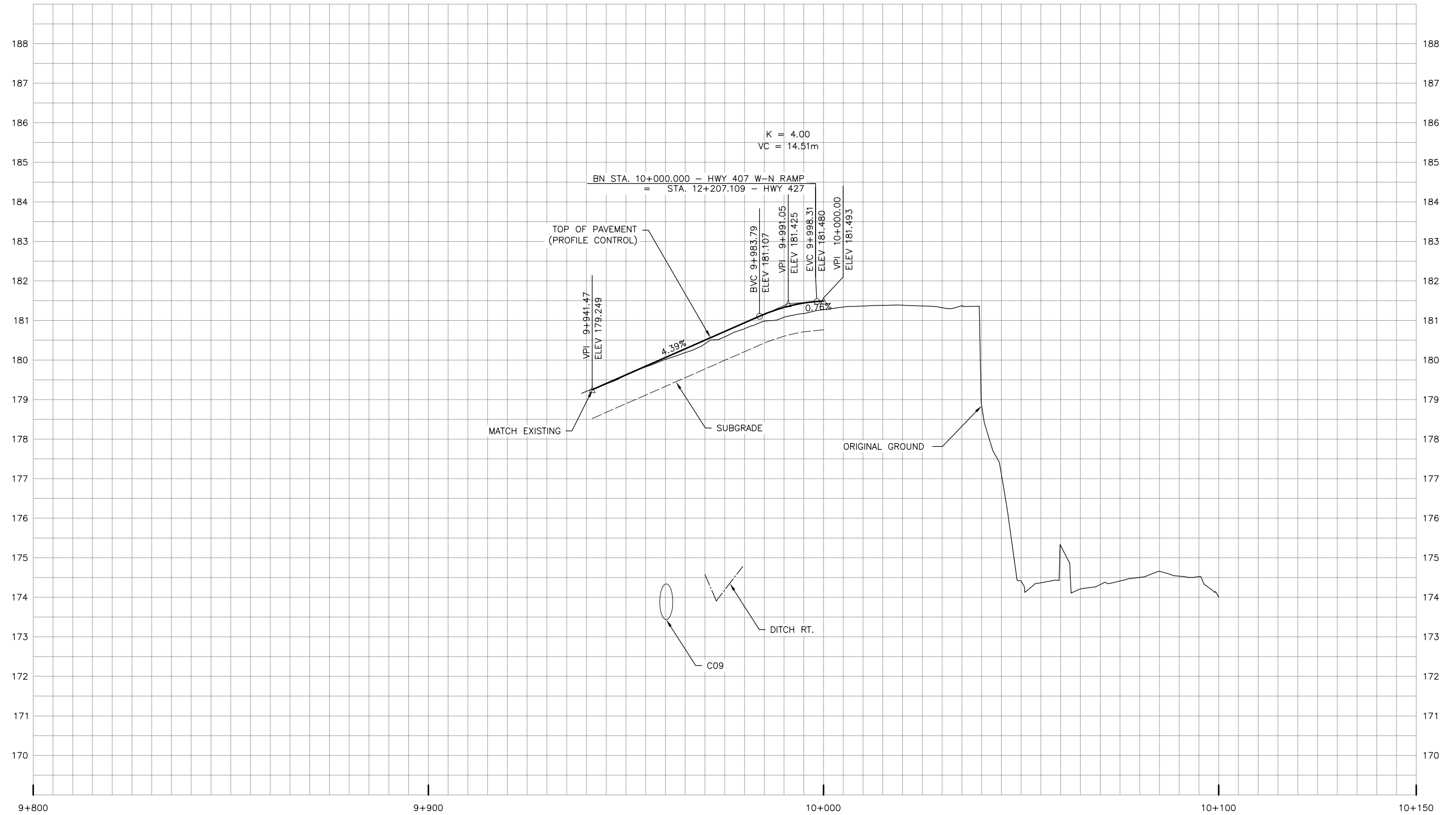


DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD DESG	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE

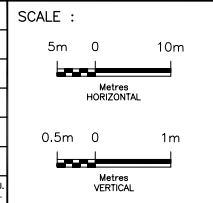


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 10+000 TO STA. 10+174							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0236	B

HIGHWAY 407 W – HIGHWAY 427 N RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DESG.	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

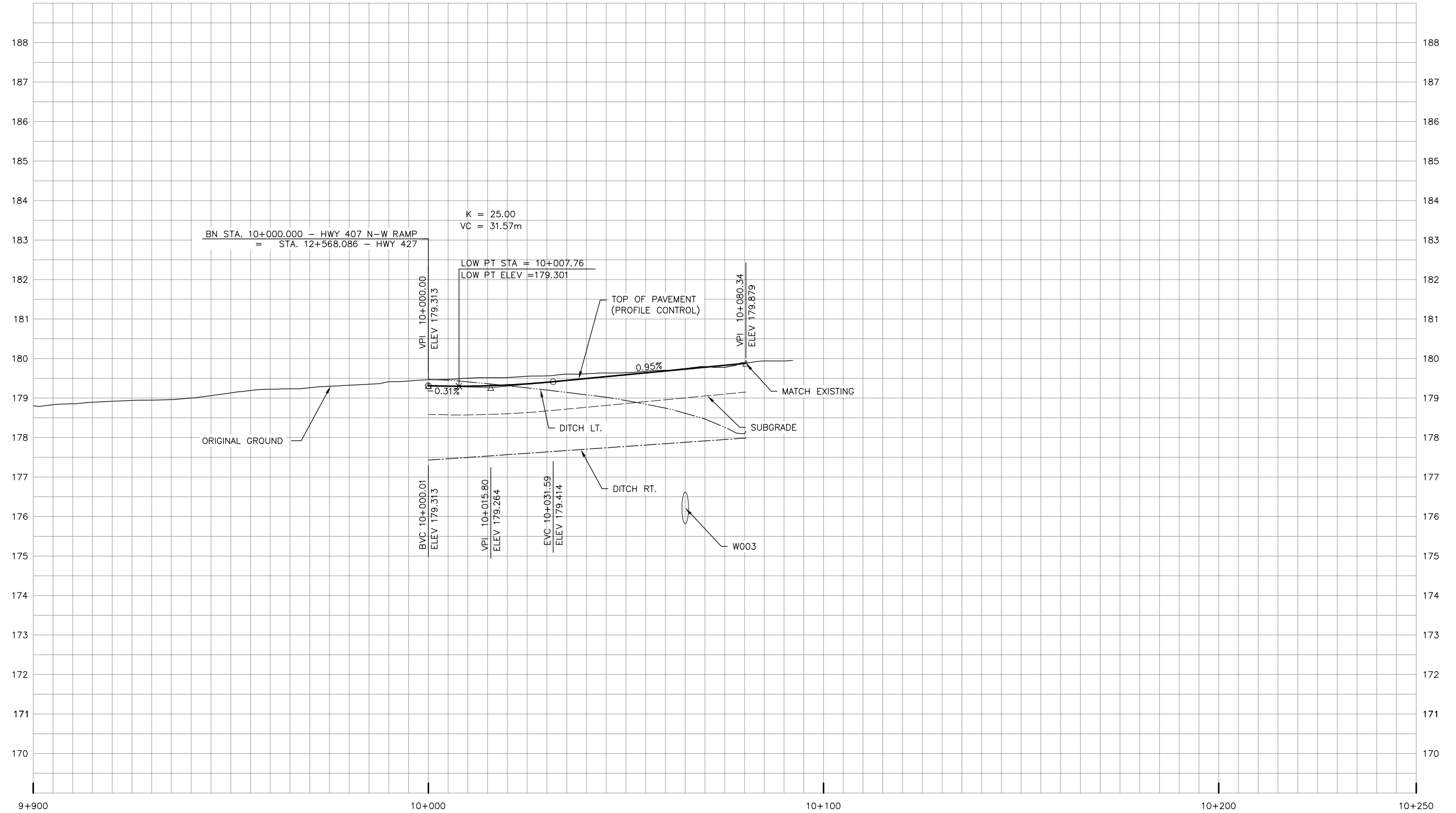


DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD DESG.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE

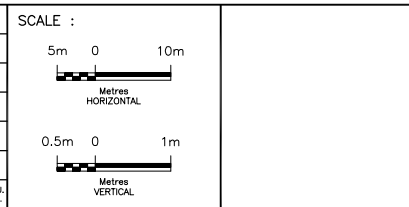


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+941 TO STA. 10+000							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0237	B

HIGHWAY 407 N – HIGHWAY 427 W RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD PRG	PROJ. MGR.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

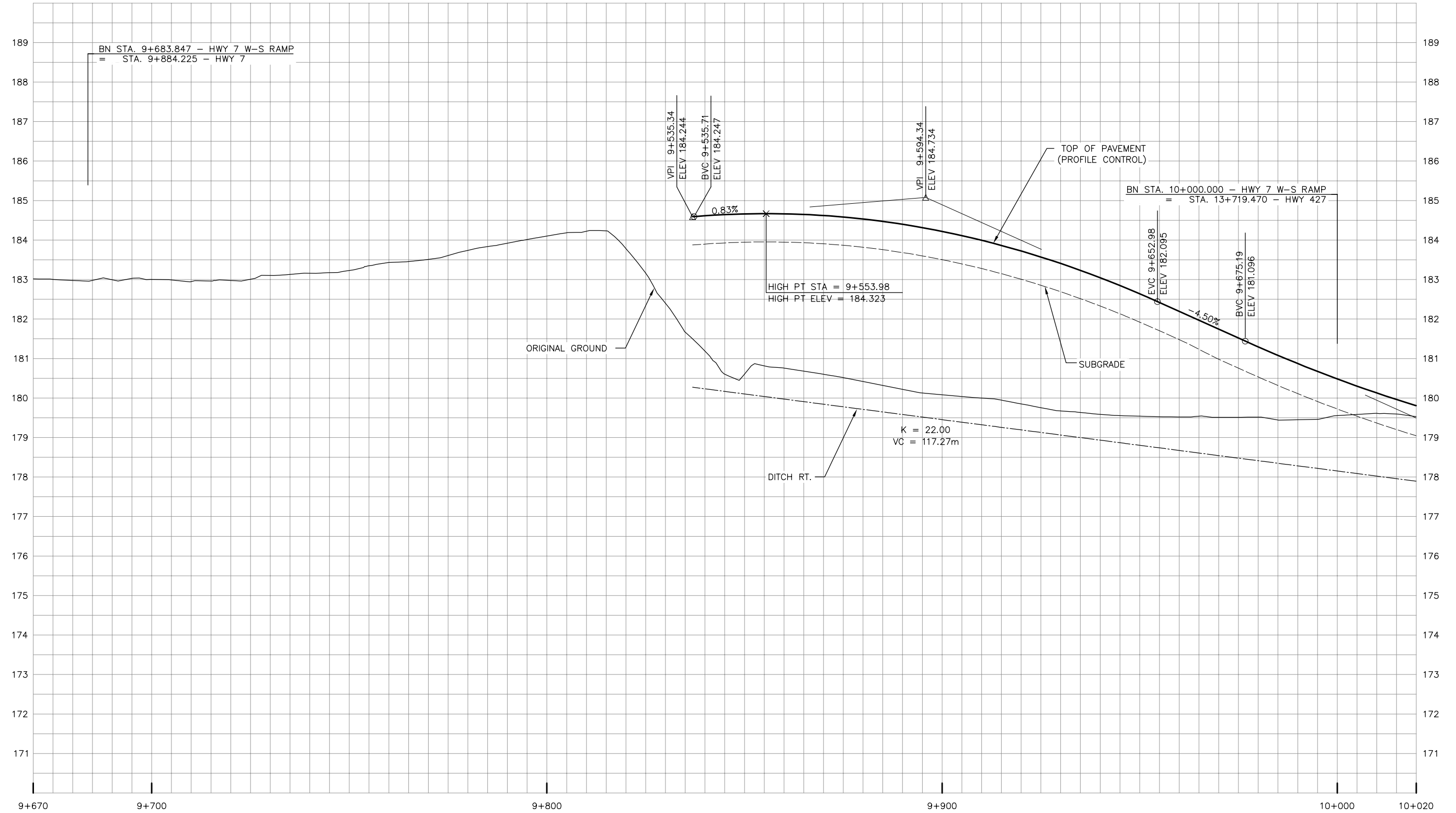


CONSULTANT	
DESIGNED	PATRICK LECLERC
DRAWN	DAVID SANOSA
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	PATRICK LECLERC
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	INIT. DATE

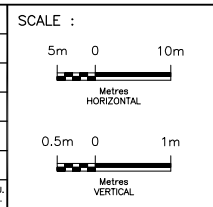


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 10+000 TO STA. 10+074							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0238	B

HIGHWAY 7 W-S RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD PRG.	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

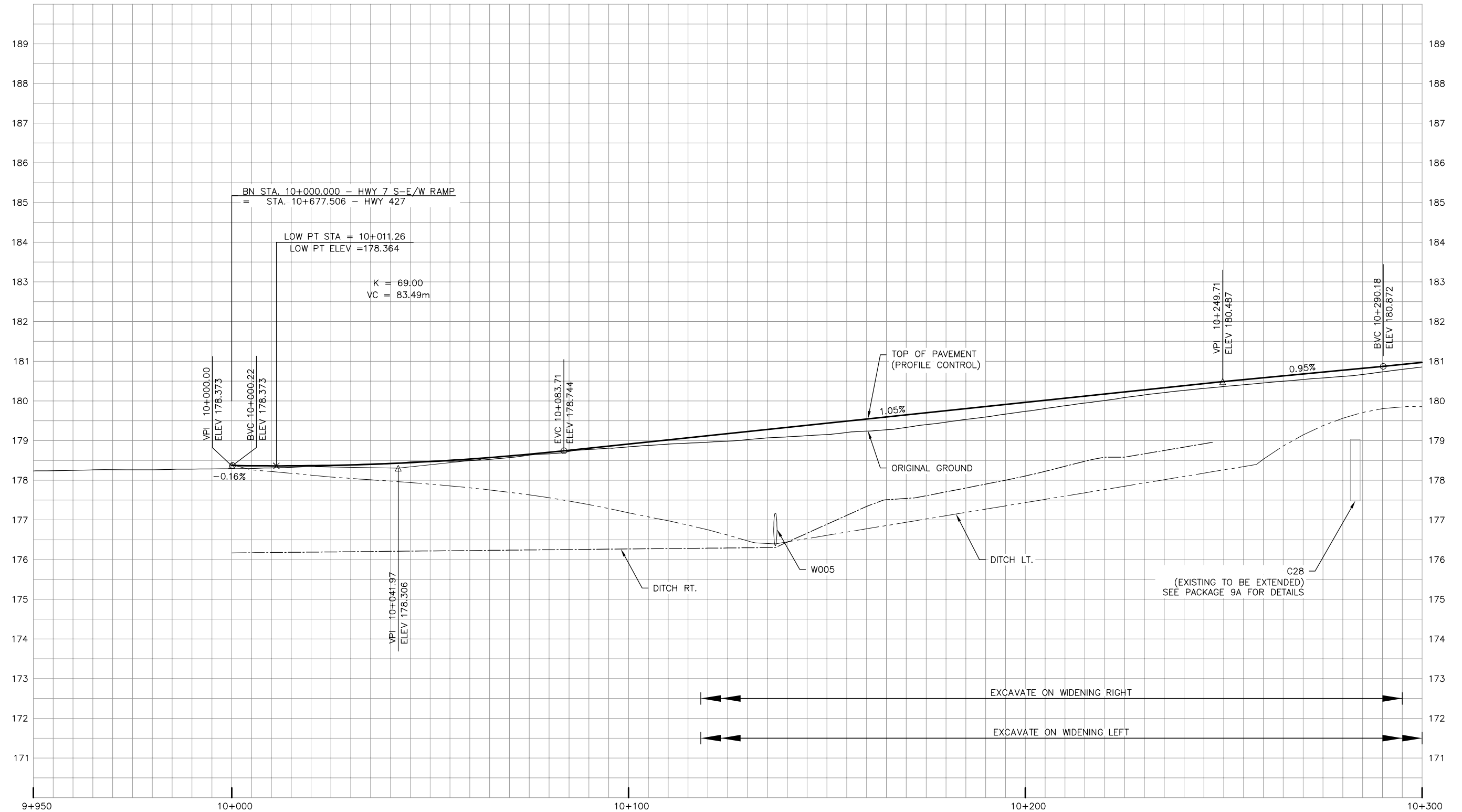


CONSULTANT	DESIGNED	DRAWN	CHECKED	APPROVED LEAD ENG.	APPROVED PROJ. MANAGER
	PATRICK LECLERC	DAVID SANOSA	DUNCAN CAMPBELL	PATRICK LECLERC	PETER BAMFORTH
	NAME (PRINT)			INIT.	DATE

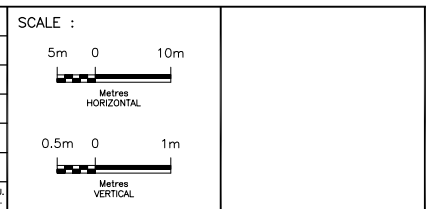


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+683 TO STA. 10+000							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0239	B

HIGHWAY 7 S-E/W RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DES.	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

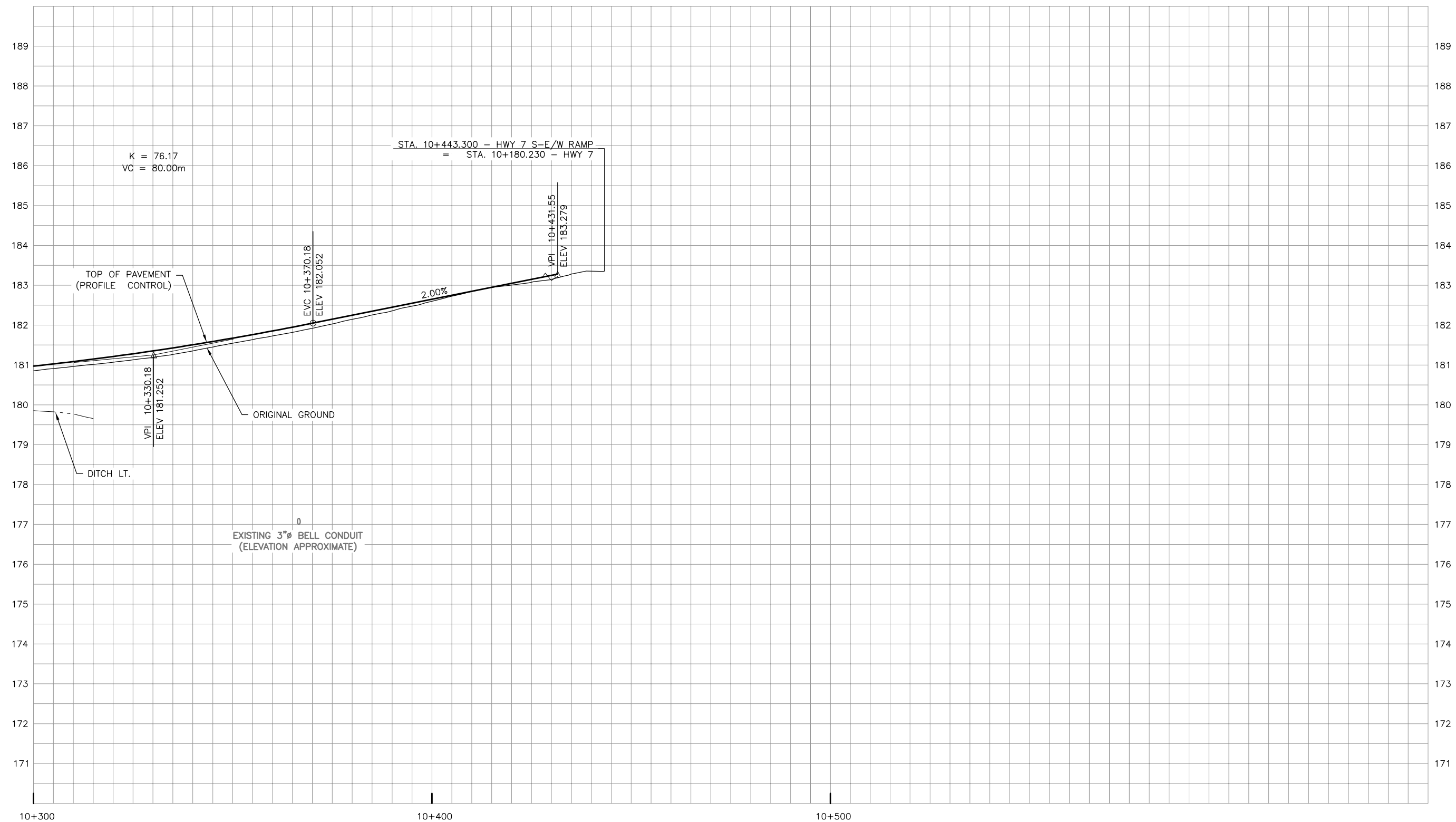


DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE

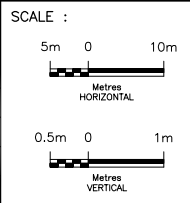


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 10+000 TO STA. 10+300							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0240	B

HIGHWAY 7 S-E/W RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

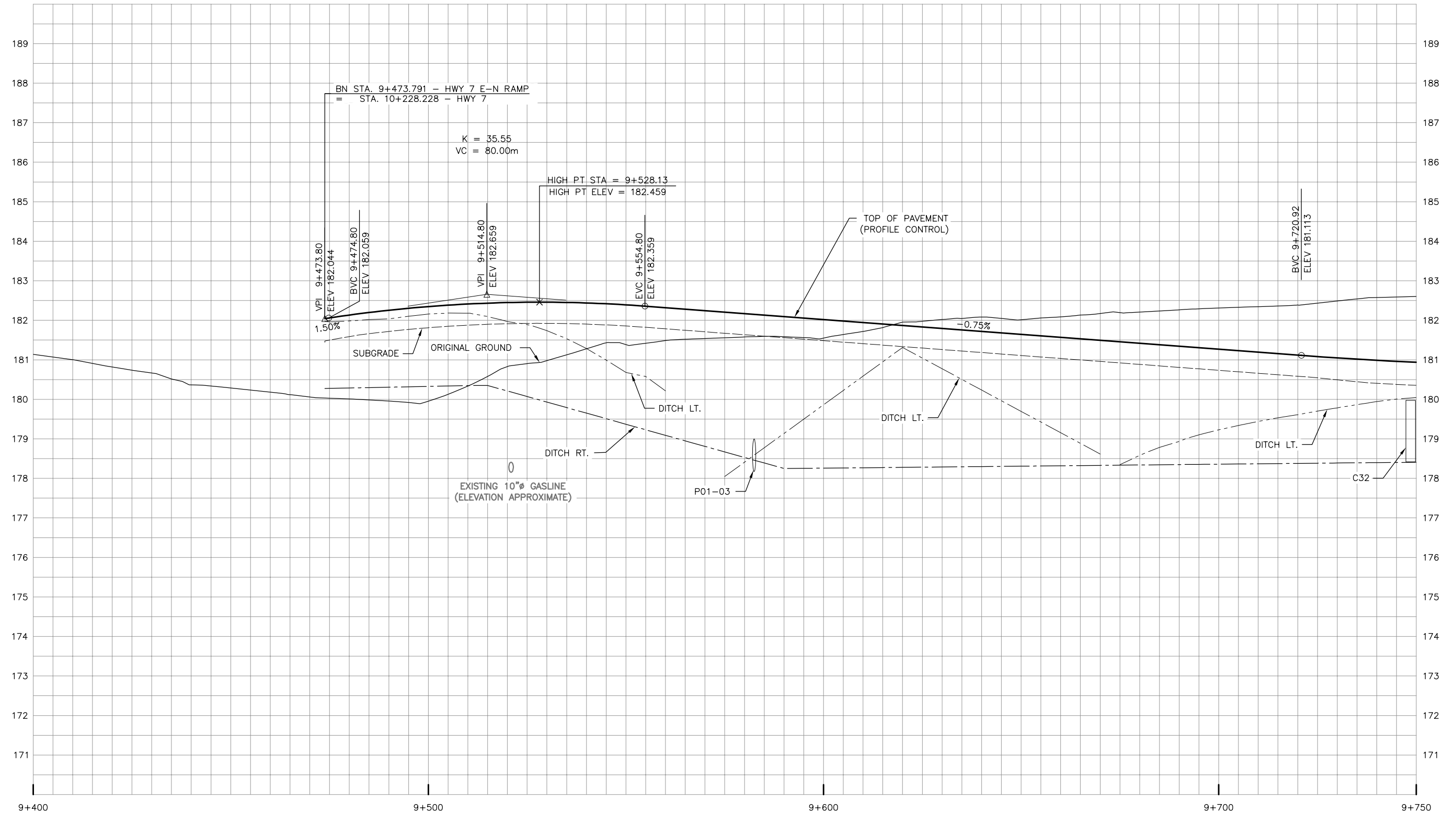


DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED	PATRICK LECLERC		
APPROVED	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE

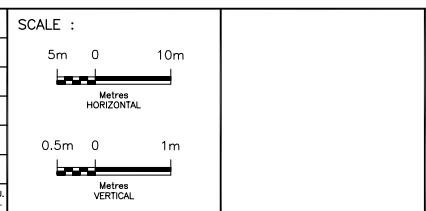


TITLE HWY 427 EXPANSION							
PROFILE STA. 10+300 TO STA. 10+431							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0241	B

HIGHWAY 7 E-N RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

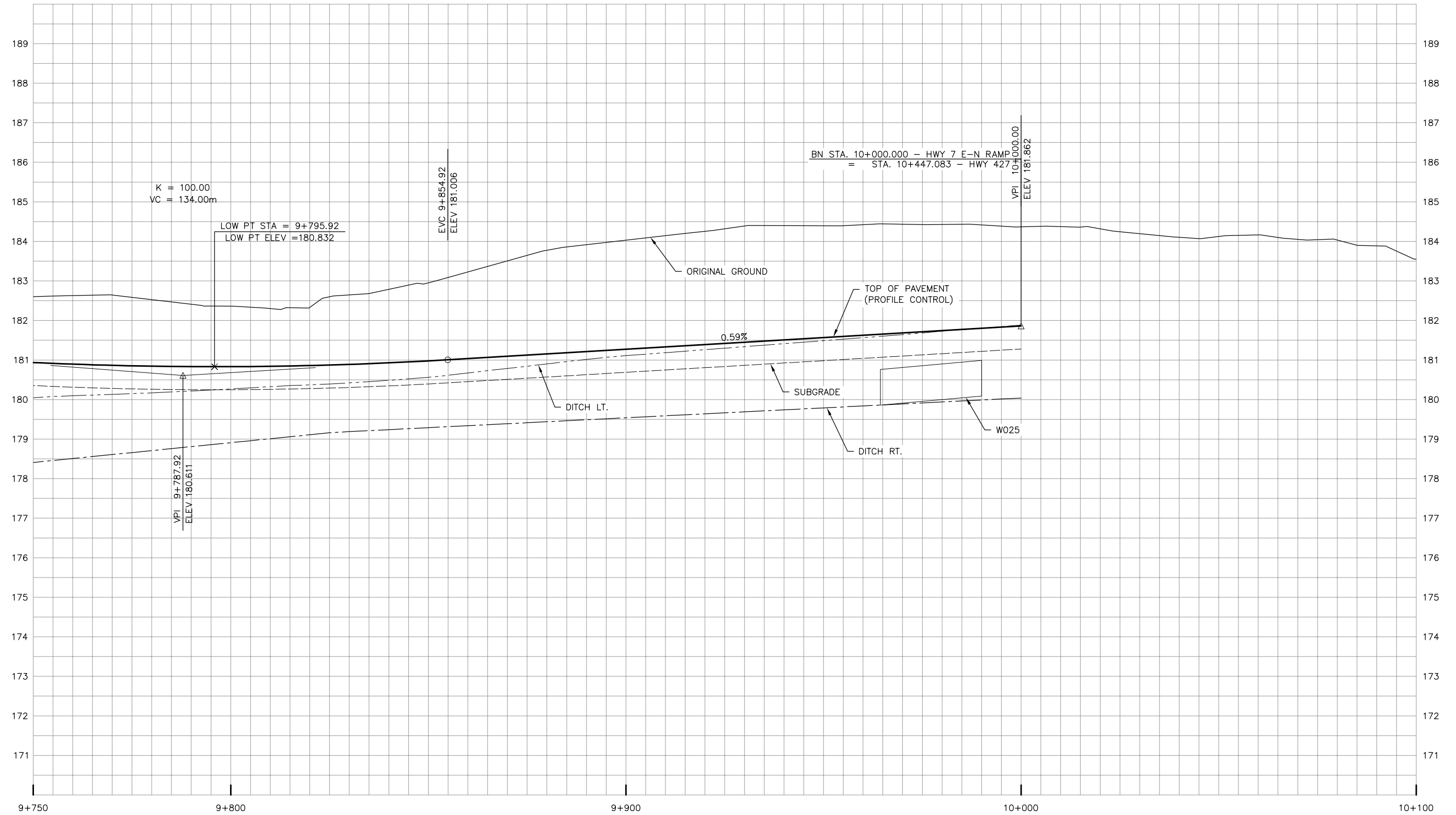


DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE

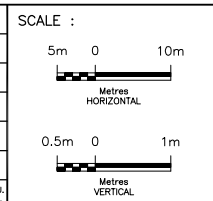


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+473 TO STA. 9+750							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0242	B

HIGHWAY 7 E-N RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DES.	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

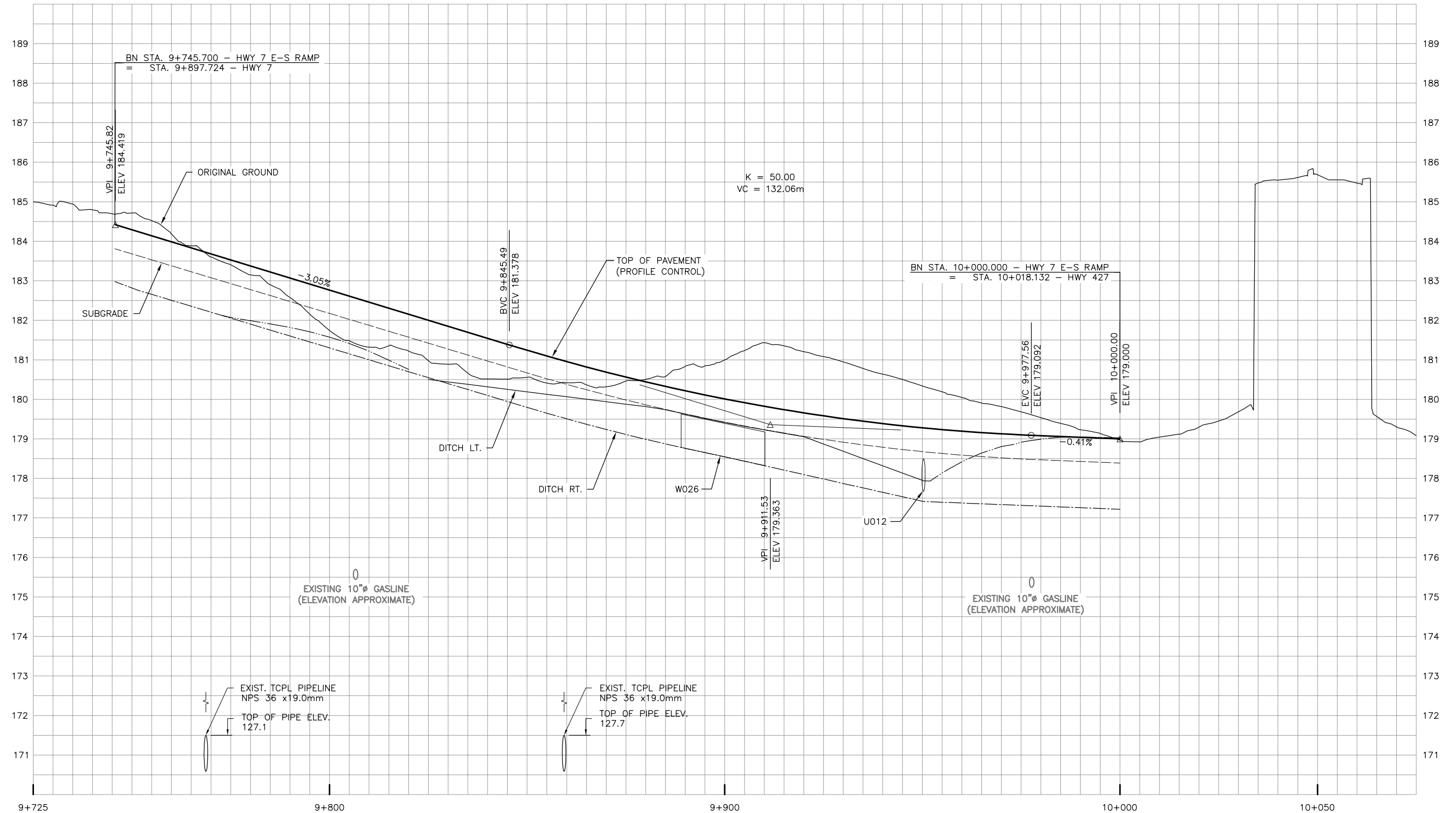


DESIGNED	PATRICK LECLERC	
DRAWN	DAVID SANOSA	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENG.	PATRICK LECLERC	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

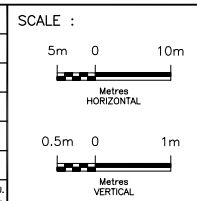


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+750 TO STA. 10+000							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0243	B

HIGHWAY 7 E-S RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DES.	PROJ. MGR.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

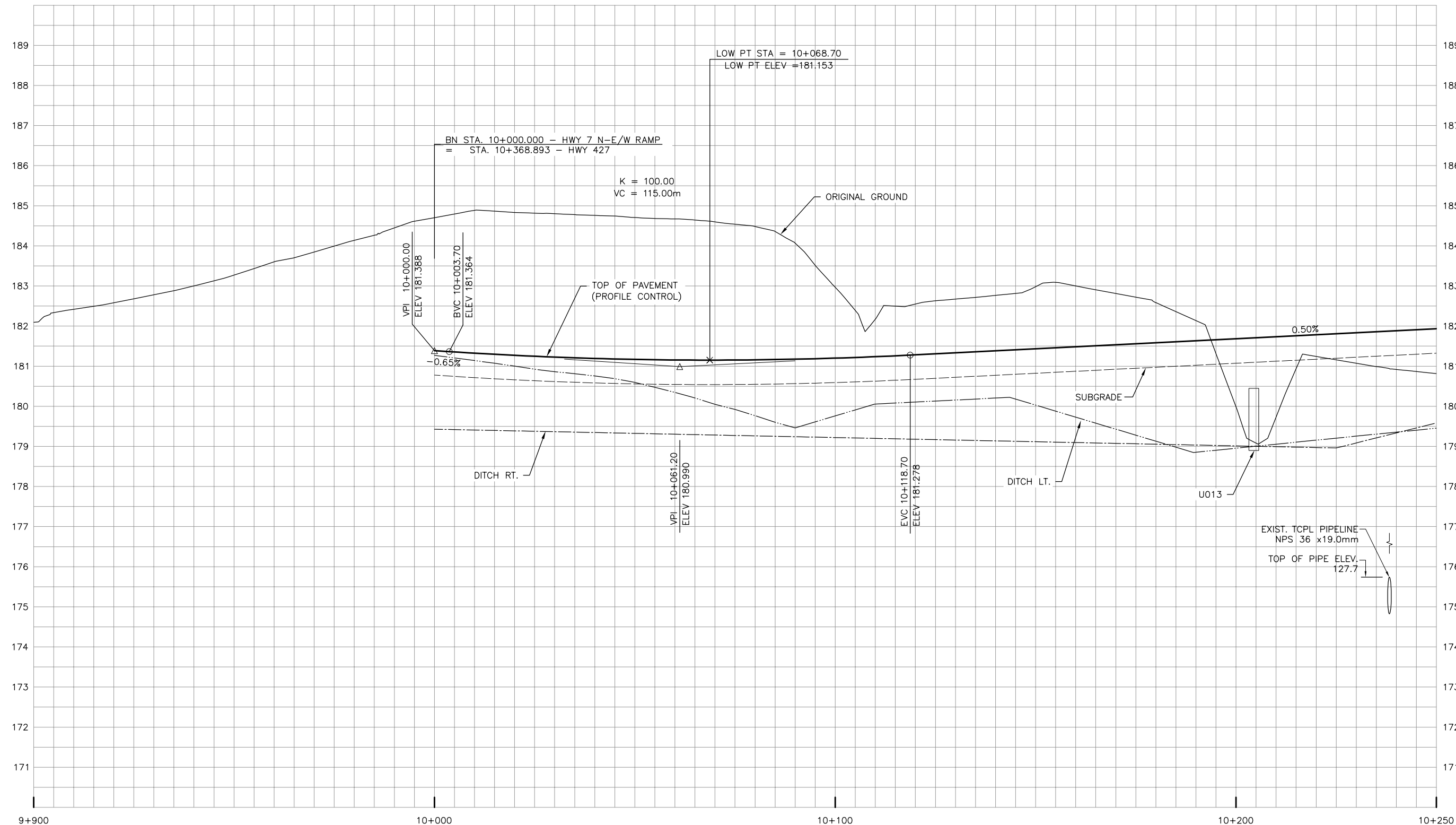


CONSULTANT	DESIGNED	DRAWN	CHECKED	APPROVED LEAD ENG.	APPROVED PROJ. MANAGER
	PATRICK LECLERC	DAVID SANOSA	DUNCAN CAMPBELL	PATRICK LECLERC	PETER BAMFORTH
	NAME (PRINT)	INIT.	DATE		

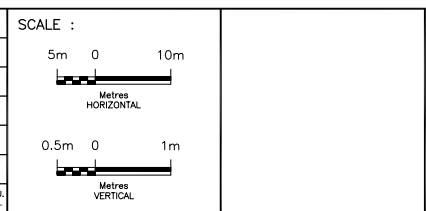


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+745 TO STA. 10+000							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0244	B

HIGHWAY 7 N-E/W RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DESG.	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

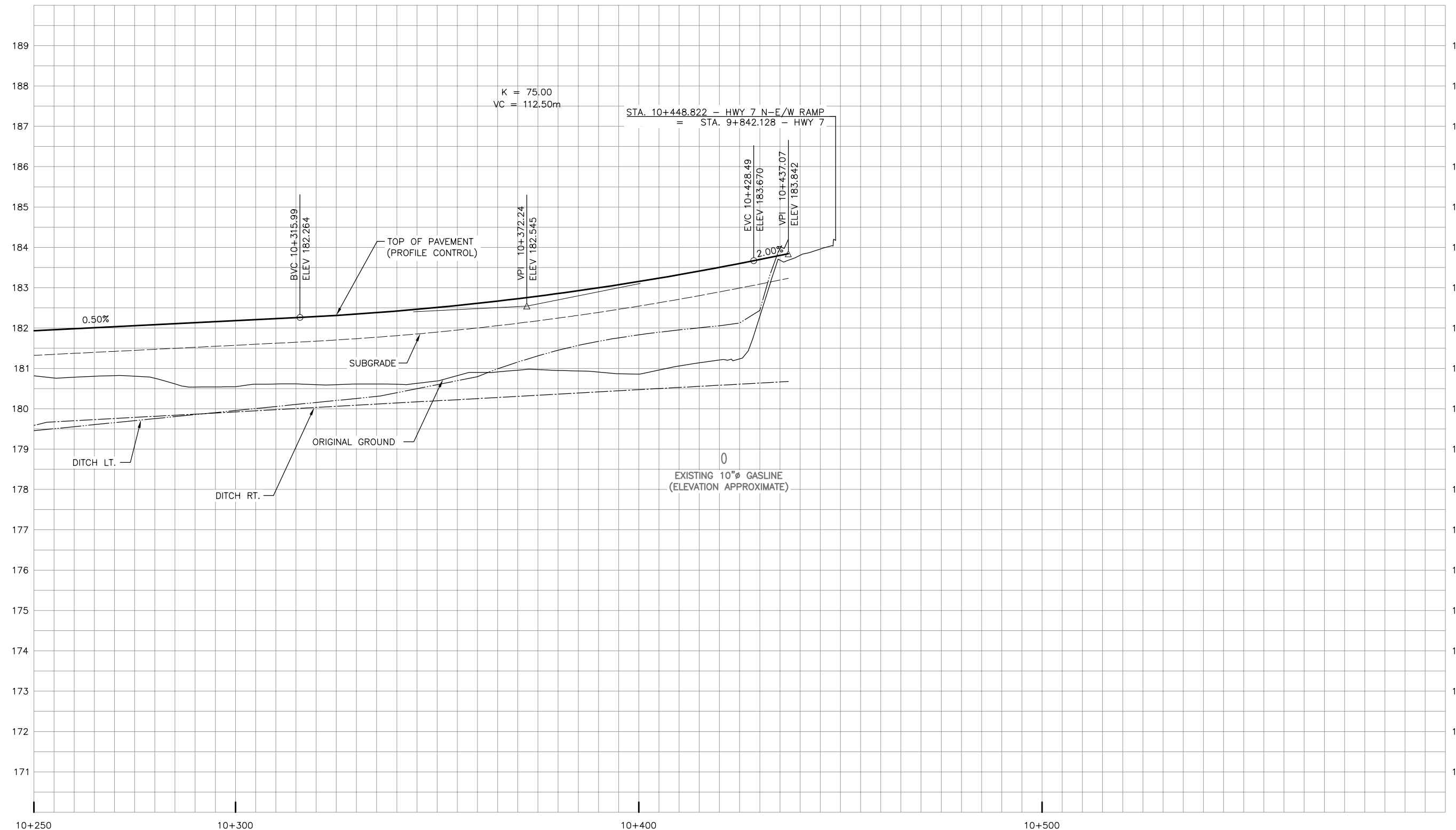


DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD DESG.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE

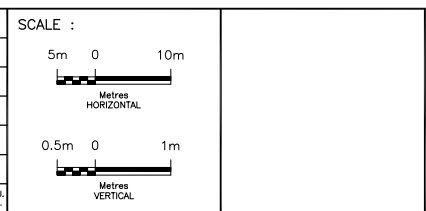


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 10+000 TO STA. 10+250							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0245	B

HIGHWAY 7 N-E/W RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DES.	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

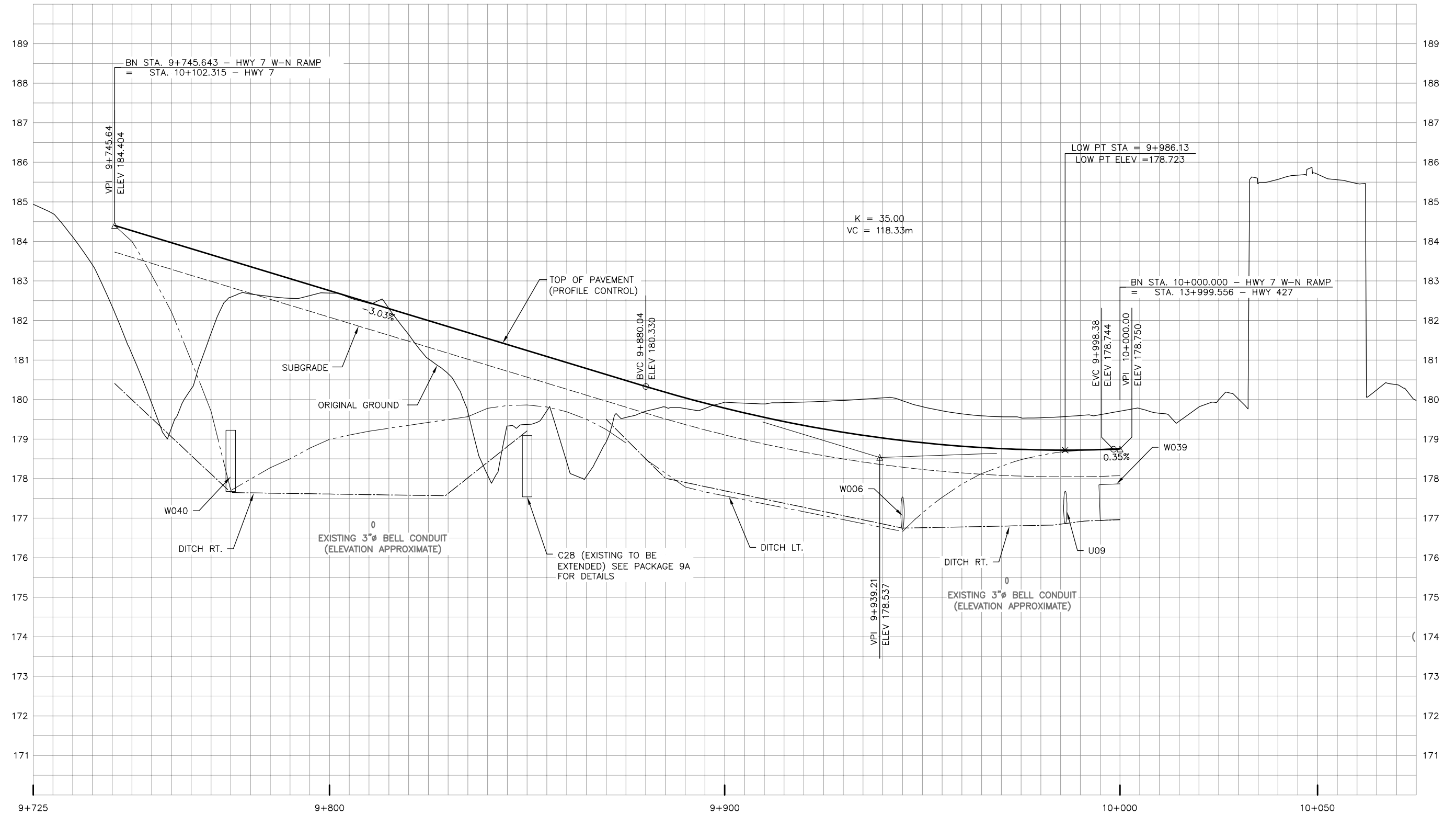


DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD DES.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE

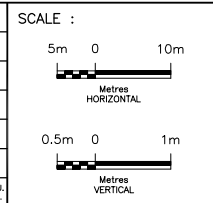


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 10+250 TO STA. 10+437							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0246	B

HIGHWAY 7 W-N RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD PRG	PROJ. MGR
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

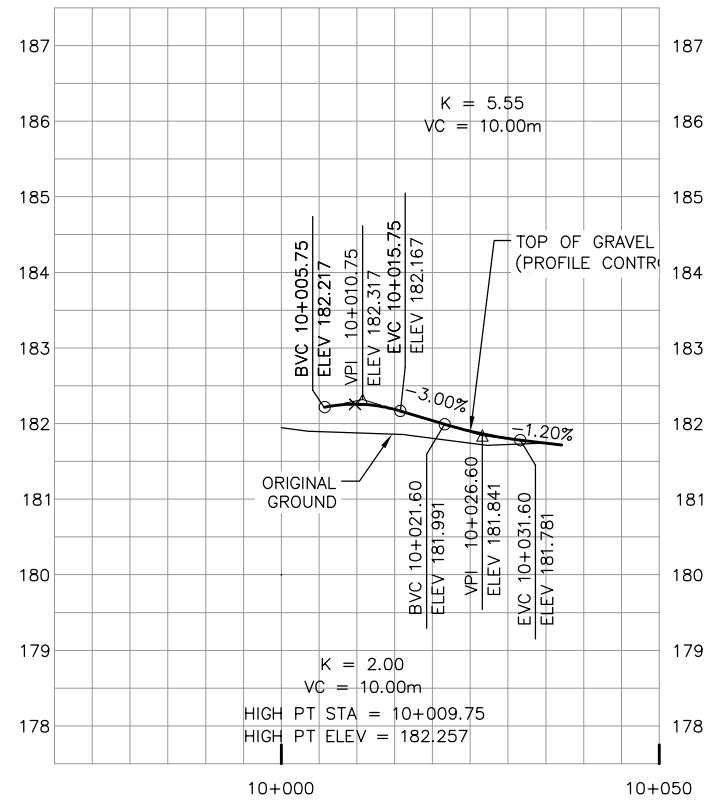


DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	PATRICK LECLERC		
APPROVED PROJ. MGR.	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE

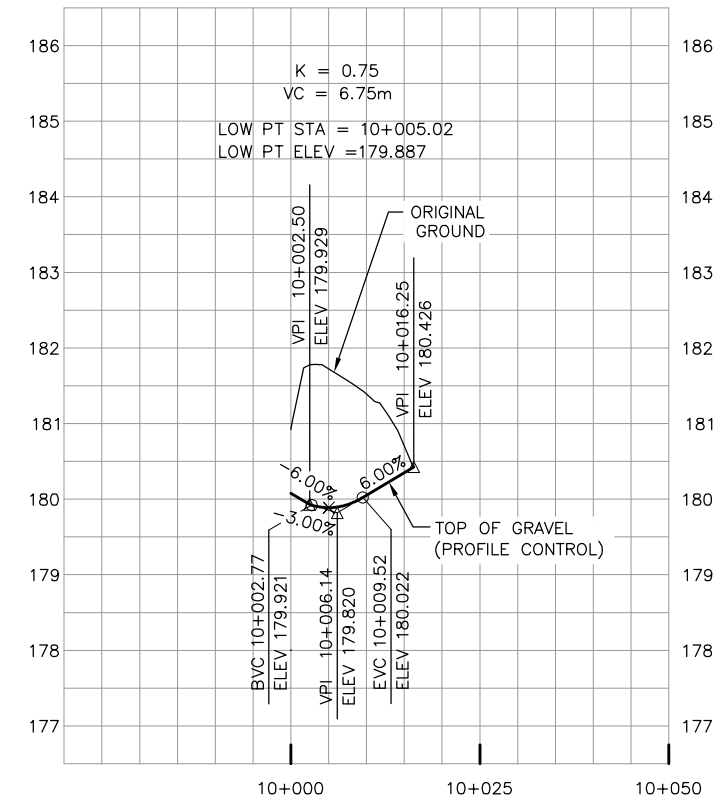


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+745 TO STA. 10+000							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0247	B

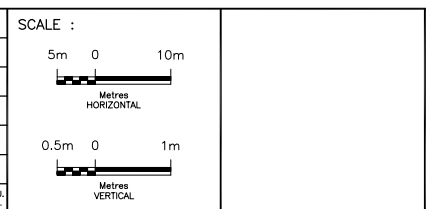
HWY 7 E-N HMLP ACCESS



HWY 7 E-S HMLP ACCESS



NO.	DATE	REVISIONS	BY	CHK	LEAD PRG	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

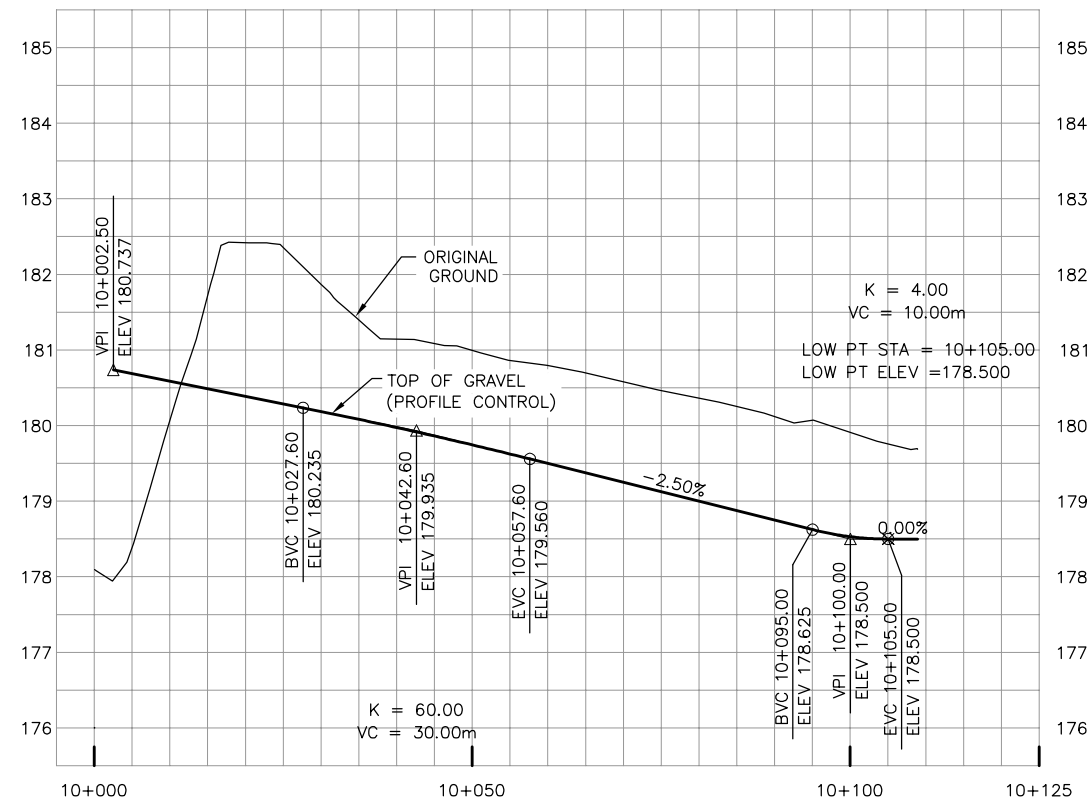


DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
CONSULTANT			
NAME (PRINT)		INIT.	DATE

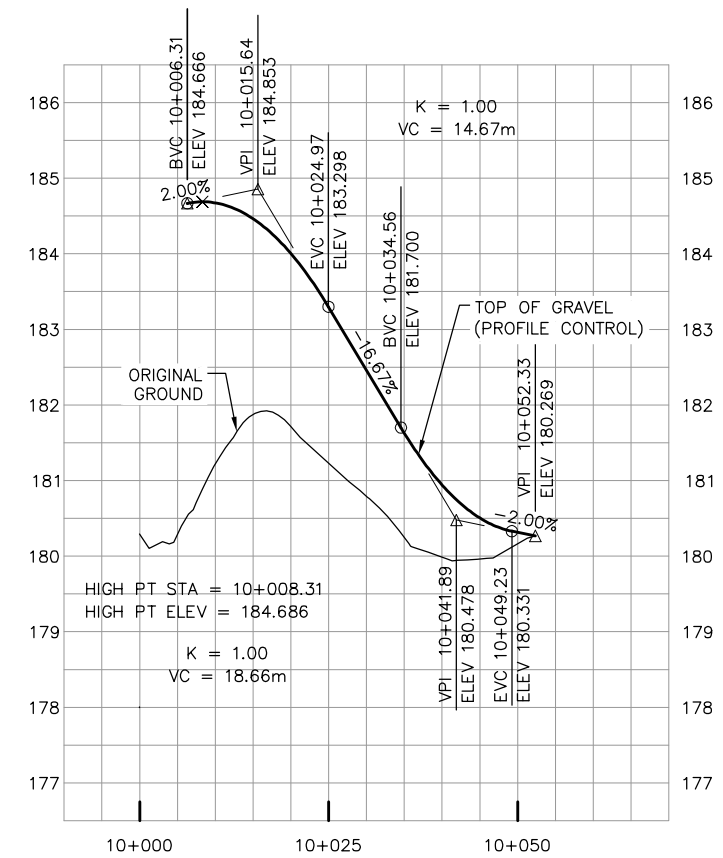


TITLE							
HWY 427 EXPANSION							
PROFILE ACCESS ROAD - 1							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0248	B

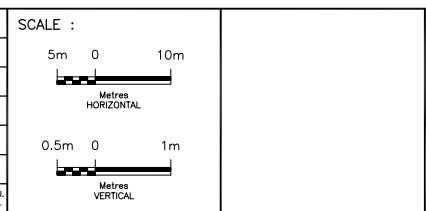
HWY 7 W-N HMLP ACCESS



HWY 7 W-S HMLP ACCESS



NO.	DATE	REVISIONS	BY	CHK	LEAD DES	PROJ. MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

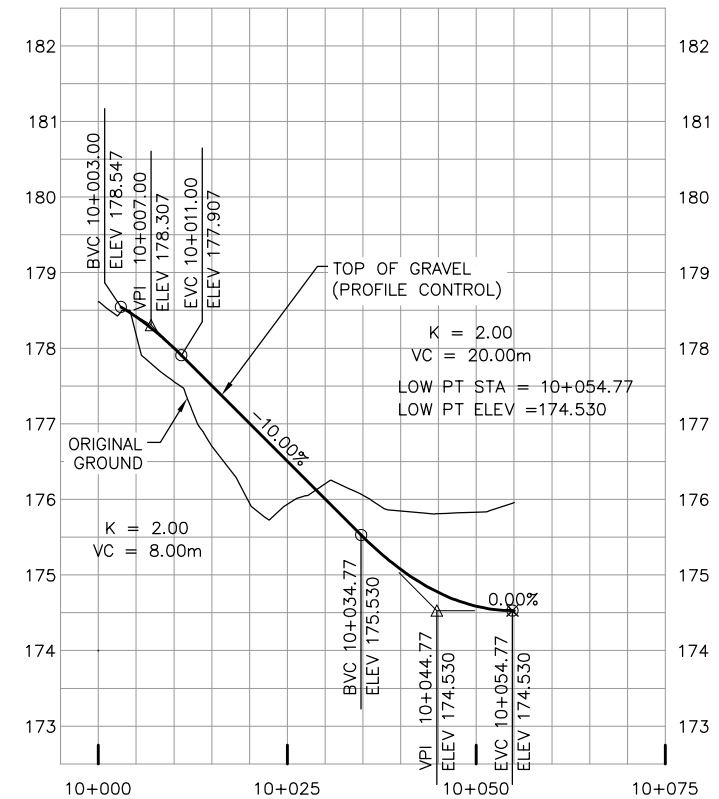


DESIGNED	PATRICK LECLERC	
DRAWN	DAVID SANOSA	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD DES.	PATRICK LECLERC	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

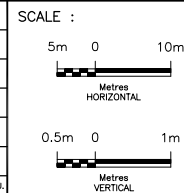


TITLE							
HWY 427 EXPANSION							
PROFILE ACCESS ROAD - 2							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0249	B

POND 1-W ACCESS



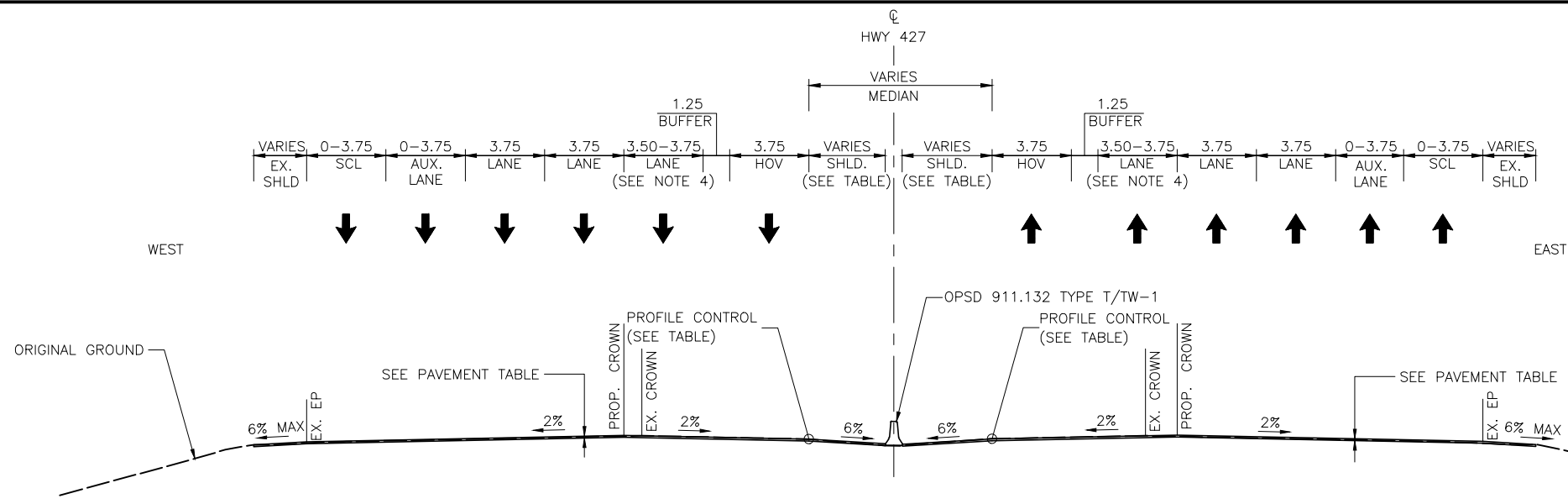
NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
					DESIGN	MAN.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				



CONSULTANT	DESIGNED	DRAWN	CHECKED	APPROVED LEAD ENG.	APPROVED PROJ. MANAGER	NAME (PRINT)	INIT.	DATE
	PATRICK LECLERC	DAVID SANOSA	DUNCAN CAMPBELL	PATRICK LECLERC	PETER BAMFORTH			



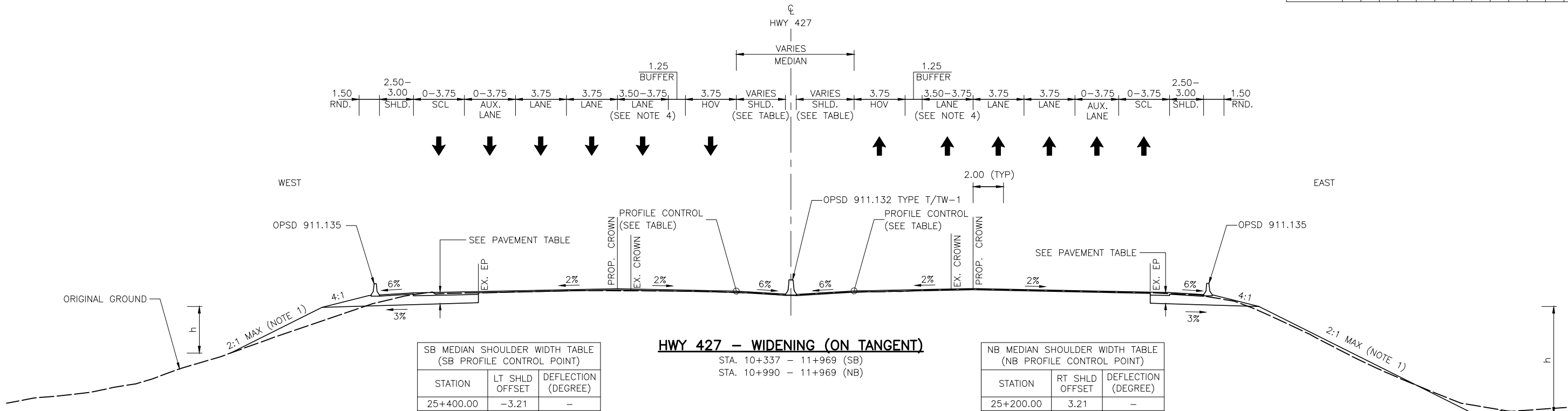
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HWY 427 EXPANSION							
PROFILE ACCESS ROAD - 3							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0250	B



HWY 427 - REHAB/RESURFACING
 STA. 25+200.00 - 25+727; 10+000.00 - 10+337 (SB)
 STA. 25+400.00 - 25+727; 10+000.00 - 10+990 (NB)

- NOTES:
- WHERE $h > 6$, SLOPE SHALL BE 2:1 (WITH EROSION CONTROL BLANKET - ECB) WITH 2m BENCHING EVERY 8m IN HEIGHT
 - WHERE $h < 3$, SLOPE SHALL BE 3:1
WHERE $h > 3$, SLOPE SHALL BE 2:1 WITH 2m BENCHING EVERY 6m IN HEIGHT
 - MEDIAN SHOULDER WIDTH IS REDUCED AT HMLP, OHS, AND HOV ENFORCEMENT AREAS
 - NBL WIDTH TRANSITIONS FROM 3.5m TO 3.75m FROM STA. 10+400.00 TO STA. 10+543.26. SBL WIDTH TRANSITIONS FROM 3.5m TO 3.75m FROM STA. 11+000.00 TO 11+226.30
 - IN WIDENING AREAS, THE TOTAL PAVEMENT THICKNESS MUST MATCH OR EXCEED THE THICKNESS OF THE EXISTING ASPHALT TO ENSURE SUBSURFACE DRAINAGE IS MAINTAINED.
 - GRANULAR SEALING TO BE APPLIED FOR ENTIRE WIDTH OF GRANULAR MEDIAN AND ALL GRANULAR ROUNDINGS PER OPSD 210.070.
 - SHOULDER RUMBLE STRIPS TO BE CONSTRUCTED PER MTD 503 SERIES

SUPERELEVATION RATES													
PAVEMENT	+6	+5	+4	+3	+2	+1	0	-1	-2	-3	-4	-5	-6
SHOULDER	-2	-2	-2	-3	-3	-3	-4	-5	-6	-6	-6	-6	-6



HWY 427 - WIDENING (ON TANGENT)
 STA. 10+337 - 11+969 (SB)
 STA. 10+990 - 11+969 (NB)

SB MEDIAN SHOULDER WIDTH TABLE (SB PROFILE CONTROL POINT)		
STATION	LT SHLD OFFSET	DEFLECTION (DEGREE)
25+400.00	-3.21	-
25+726.98/ 10+000.00	-3.21	-
11+000.00	-3.21	0.2
11+226.30	-4.00	0.2
11+363.77	-4.00	0.2
11+550.00	-4.65	0.2
12+000.00	-4.65	0.2
12+085.96	-4.35	0.2
12+364.04	-4.35	0.2
12+450.00	-4.65	0.2
14+133.25	-4.65	-

NB MEDIAN SHOULDER WIDTH TABLE (NB PROFILE CONTROL POINT)		
STATION	RT SHLD OFFSET	DEFLECTION (DEGREE)
25+200.00	3.21	-
25+726.98/ 10+000.00	3.21	-
10+400.00	3.21	0.2
10+812.51	4.65	0.2
12+000.00	4.65	0.2
12+085.96	4.35	0.2
12+364.04	4.35	0.2
12+450.00	4.65	0.2
14+121.63	4.65	-

NO.	DATE	REVISIONS	BY	CHK	LEAD. ENGR.	PROJ. MGR.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

SCALE :

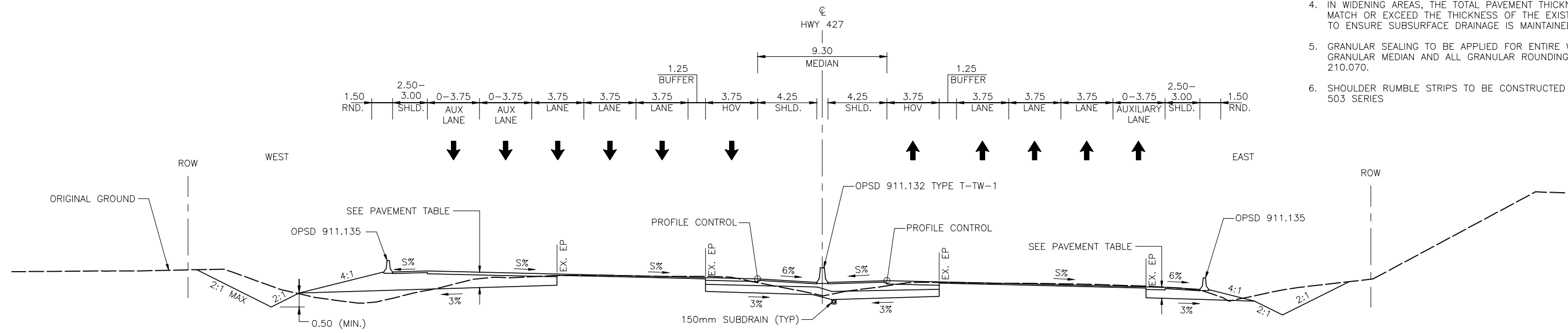
N.T.S.

DESIGNED	PATRICK LECLERC
DRAWN	DAVID SANOSA
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENGINEER	PATRICK LECLERC
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	INIT. DATE



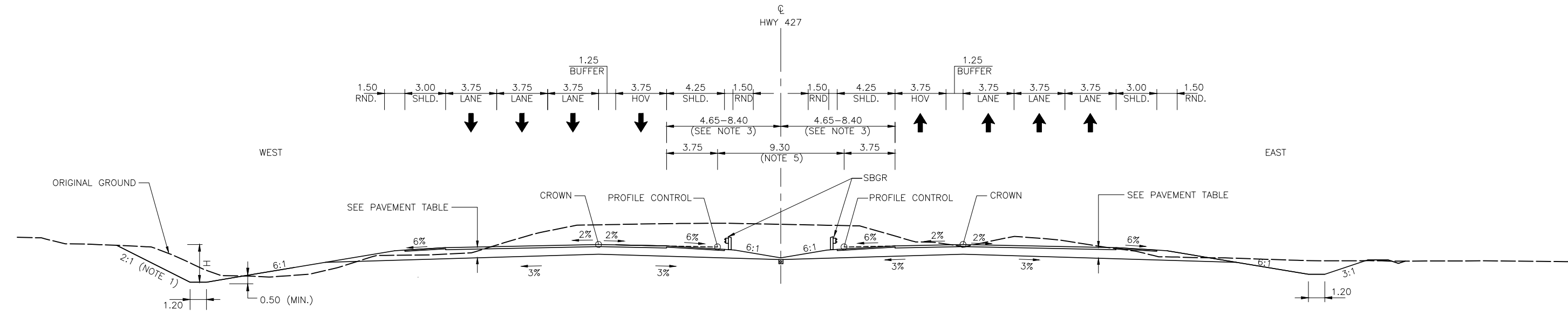
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PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0253	B

- NOTES:
- BACKSLOPE: WHERE H<3, SLOPE SHALL BE 3:1 WHERE H>3, SLOPE SHALL BE 2:1 WITH 2m BENCHING EVERY 6m IN HEIGHT
 - MEDIAN SHOULDER WIDTH IS REDUCED AT HMLP, OHS, AND HOV ENFORCEMENT AREAS
 - NB MEDIAN WIDTH TRANSITIONS FROM 4.65m TO 8.40m FROM STA. 10+054.19 TO 10+354.42. SB MEDIAN WIDTH TRANSITIONS FROM 4.65m TO 8.40m FROM STA. 10+065.80 TO 10+365.78.
 - IN WIDENING AREAS, THE TOTAL PAVEMENT THICKNESS MUST MATCH OR EXCEED THE THICKNESS OF THE EXISTING ASPHALT TO ENSURE SUBSURFACE DRAINAGE IS MAINTAINED.
 - GRANULAR SEALING TO BE APPLIED FOR ENTIRE WIDTH OF GRANULAR MEDIAN AND ALL GRANULAR ROUNDINGS PER OPSD 210.070.
 - SHOULDER RUMBLE STRIPS TO BE CONSTRUCTED PER MTOD 503 SERIES



HWY 427 - WIDENING (SUPERELEVATED)
 STA. 11+969 - 13+375 (SB)
 STA. 11+969 - 14+000 (NB)

SUPERELEVATION RATES													
PAVEMENT	+6	+5	+4	+3	+2	+1	0	-1	-2	-3	-4	-5	-6
SHOULDER	-2	-2	-2	-3	-3	-3	-4	-5	-6	-6	-6	-6	-6



HWY 427 - NEW CONSTRUCTION
 STA. 13+375 - 14+067; 10+000 - 10+500 (SB)
 STA. 14+000 - 14+067; 10+000 - 10+500 (NB)

NO.	DATE	REVISIONS	BY	CHK	LEAD. ENGR.	PROJ. MGR.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

SCALE :

N.T.S.

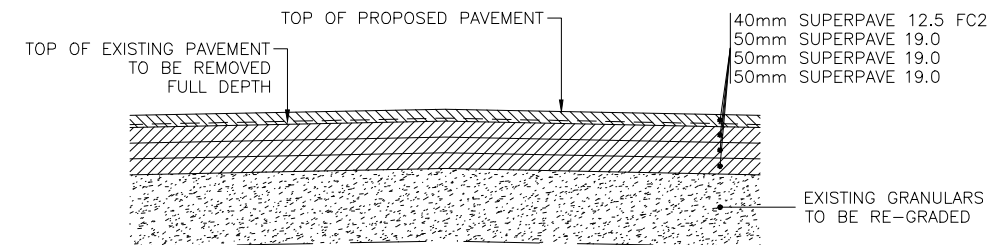
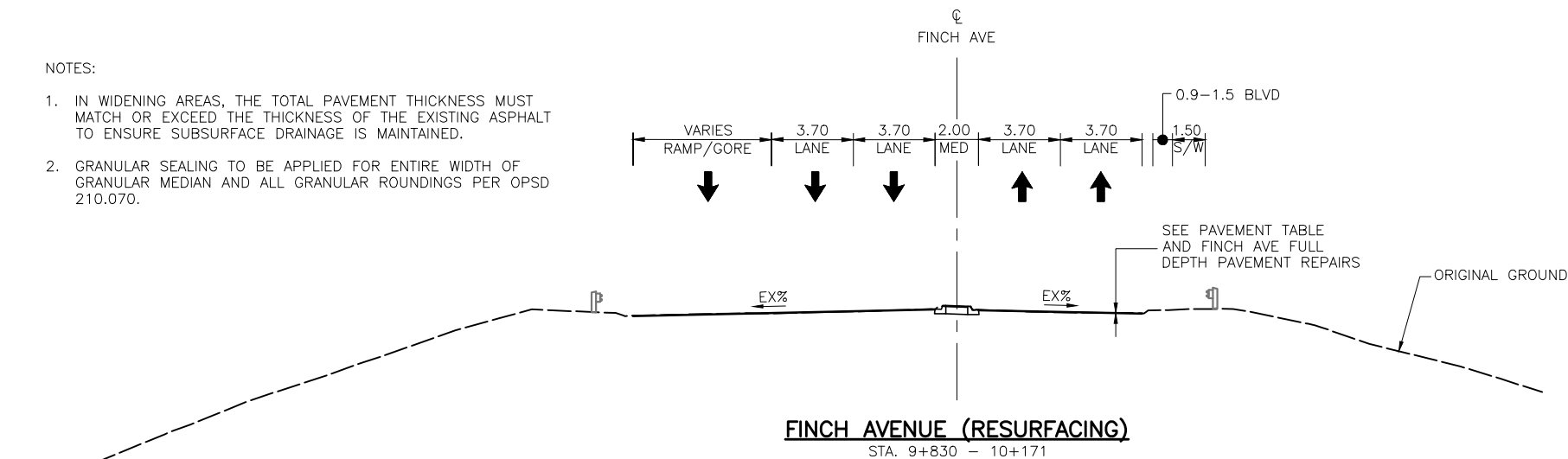
DESIGNED	PATRICK LECLERC
DRAWN	DAVID SANOSA
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENGINEER	PATRICK LECLERC
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	INIT. DATE



TITLE							
HWY 427 EXPANSION							
TYPICAL SECTIONS							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0254	B

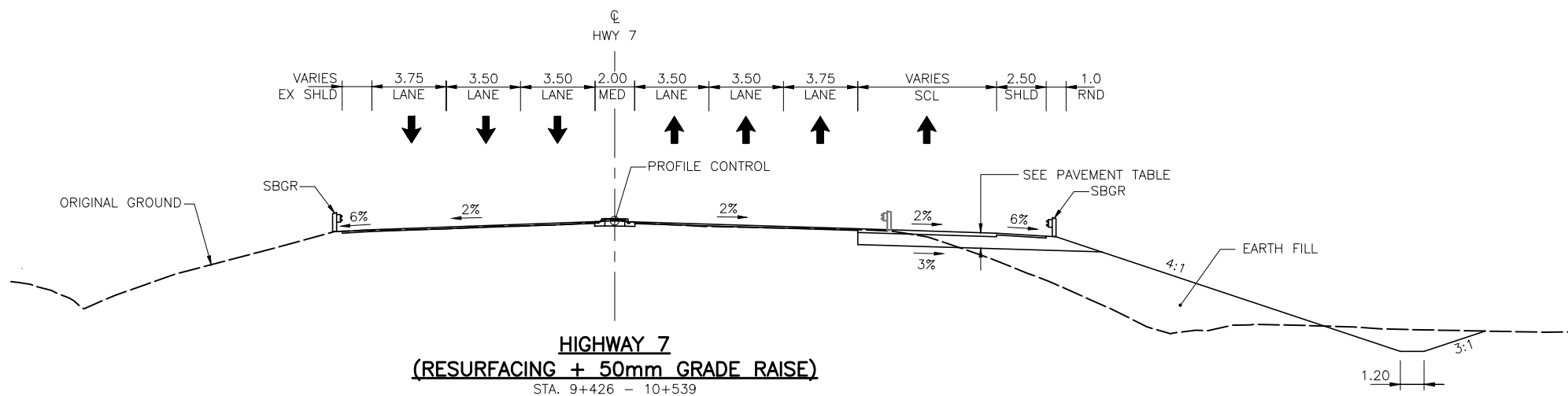
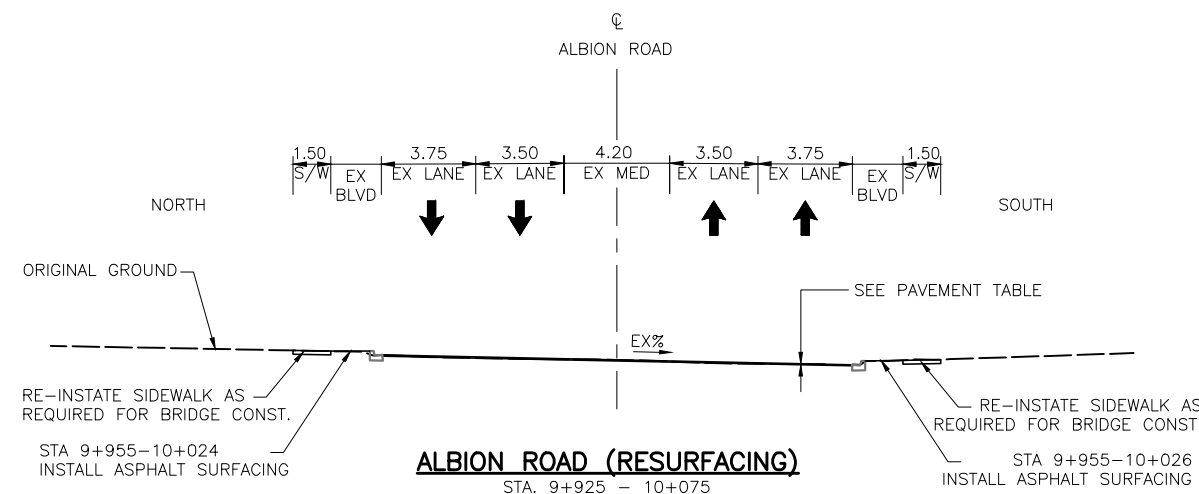
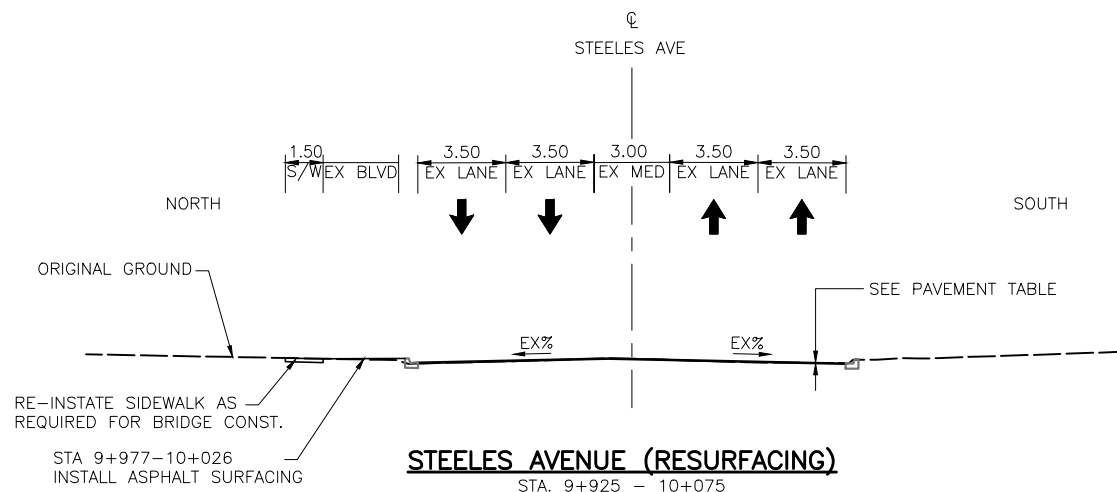
NOTES:

1. IN WIDENING AREAS, THE TOTAL PAVEMENT THICKNESS MUST MATCH OR EXCEED THE THICKNESS OF THE EXISTING ASPHALT TO ENSURE SUBSURFACE DRAINAGE IS MAINTAINED.
2. GRANULAR SEALING TO BE APPLIED FOR ENTIRE WIDTH OF GRANULAR MEDIAN AND ALL GRANULAR ROUNDINGS PER OPSD 210.070.



WB LANE 1	STA. 10+125 TO STA. 10+160
WB LANE 2	STA. 9+883 TO STA. 9+957
WB LANE 3	STA. 10+045 TO STA. 10+160
MEDIAN	STA. 10+131 TO STA. 10+160
EBL LANE 1	STA. 10+131 TO STA. 10+160
EBL LANE 2	STA. 10+131 TO STA. 10+160

FINCH AVE FULL DEPTH PAVEMENT REPAIRS



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

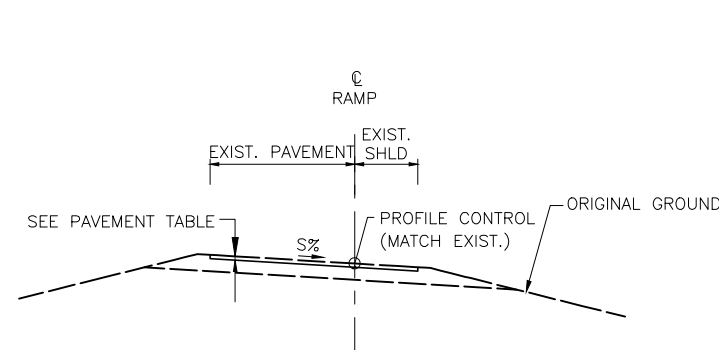
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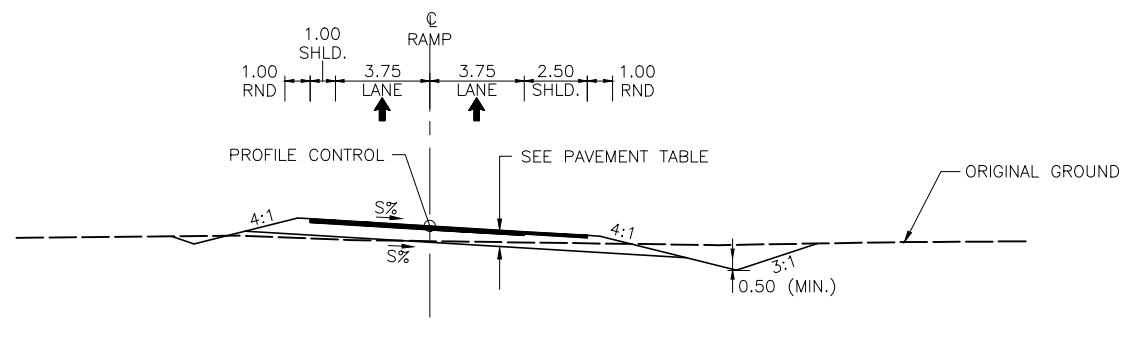
DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENGINEER	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
CONSULTANT			
NAME (PRINT)		INIT.	DATE



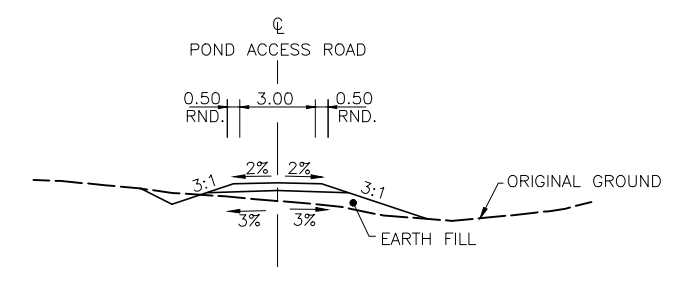
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								TYPICAL SECTIONS			
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER				
H427-D	N	9	HWY	000	DWG	0255	B				



FINCH AVE RAMPS

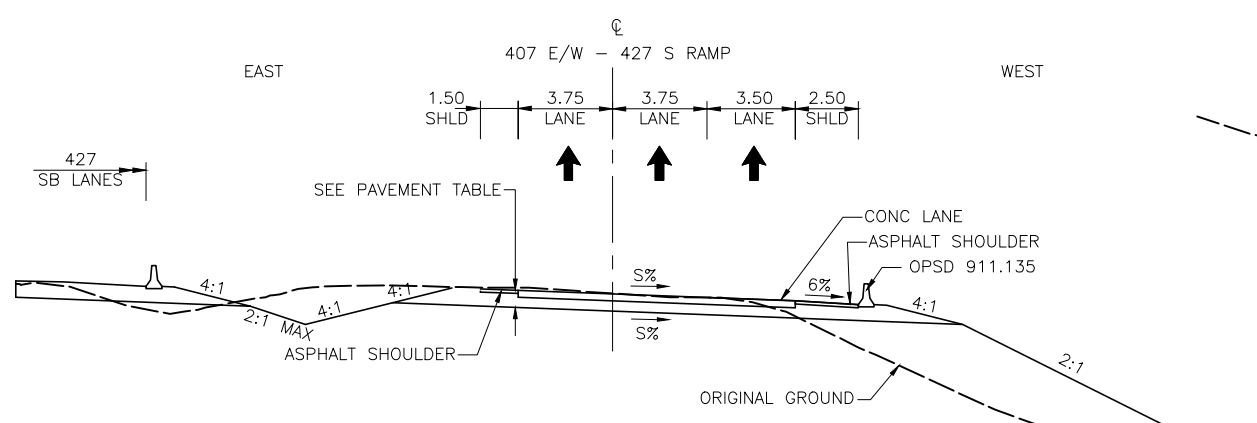


TWO-LANE RAMP

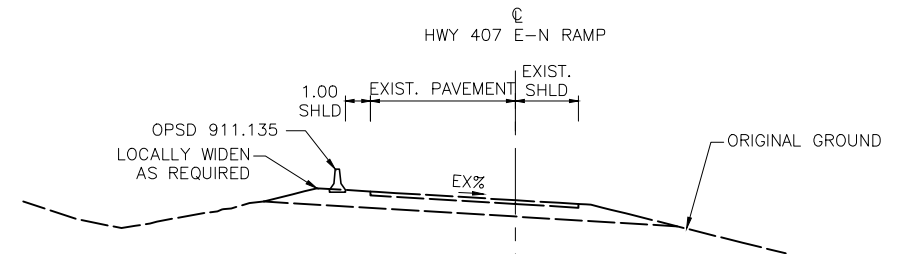


HMLP/SWM POND ACCESS ROAD

SUPERELEVATION RATES												
PAVEMENT	+6	+5	+4	+3	+2	+1	0	-1	-2	-3	-4	-6
SHOULDER	-2	-2	-2	-3	-3	-3	-4	-5	-6	-6	-6	-6

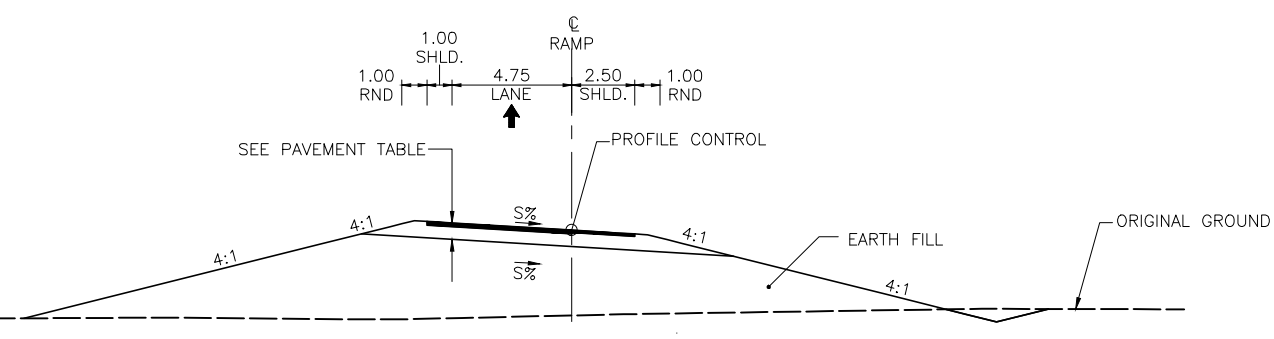


HIGHWAY 407 E/W-S RAMP
STA. 9+659 - 10+000

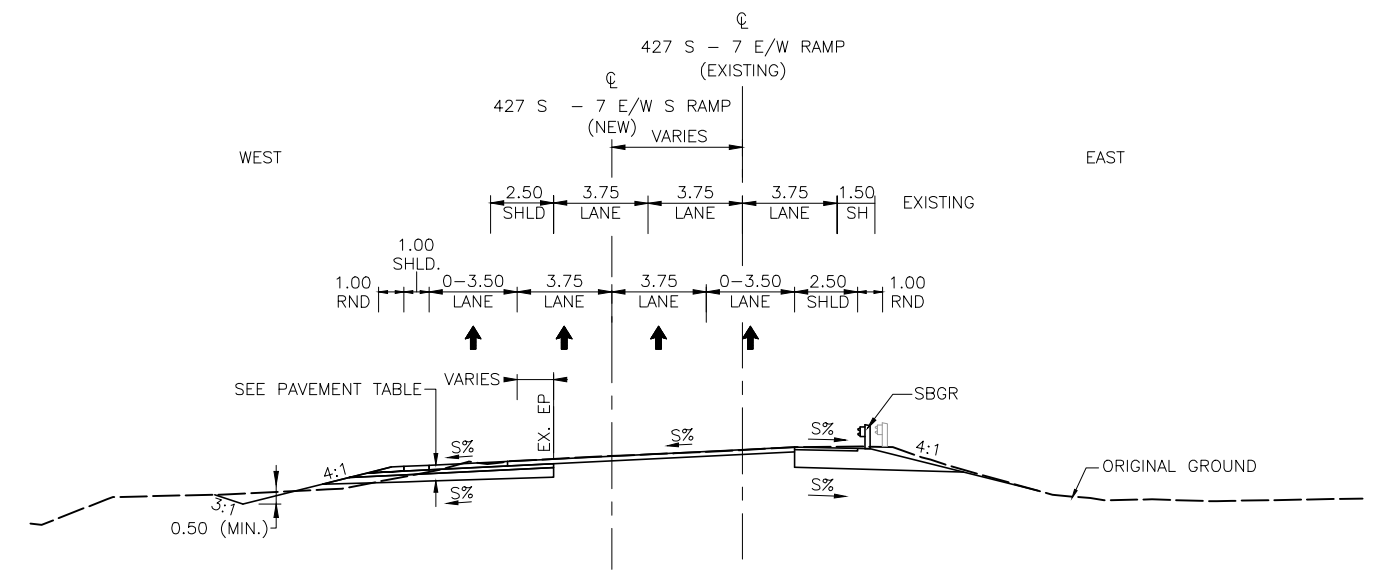


HWY 407 E-N RAMP BARRIER INSTALLATION
STA. 10+368 - 10+516

- NOTES:
1. FORESLOPE: WHERE $h < 3m$, SLOPE SHALL BE 6:1
WHERE $3 < h < 4.5$, SLOPE SHALL BE 5:1
WHERE $4.5 < h < 6$, SLOPE SHALL BE 4:1
WHERE $h > 6$, SLOPE SHALL BE 2:1
WITH 2m BENCHING EVERY 8m IN HEIGHT
 2. BACKSLOPE: WHERE $h < 3$, SLOPE SHALL BE 3:1
WHERE $h > 3$, SLOPE SHALL BE 2:1
WITH 2m BENCHING EVERY 6m IN HEIGHT
 3. IN WIDENING AREAS, THE TOTAL PAVEMENT THICKNESS MUST MATCH OR EXCEED THE THICKNESS OF THE EXISTING ASPHALT TO ENSURE SUBSURFACE DRAINAGE IS MAINTAINED.
 4. DEPTH AND WIDTH DETERMINED BY HYDRAULIC REQUIREMENTS



SINGLE LANE RAMP



HWY 7 S-EW RAMP WIDENING

NO.	DATE	REVISIONS	BY	CHK	LEAD. DISC.	PROJ. MGR.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

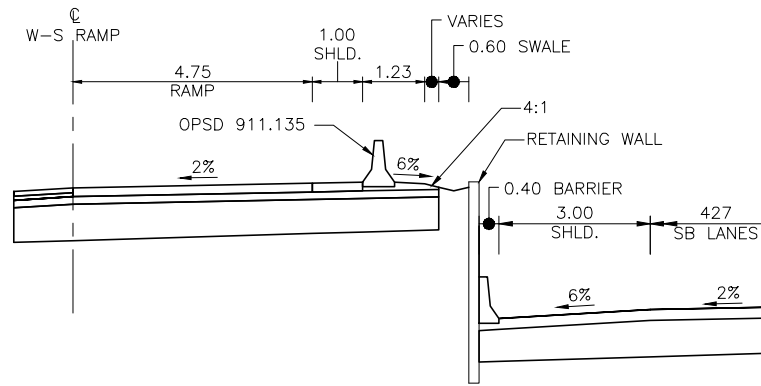
SCALE :

N.T.S.

DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENGINEER	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
CONSULTANT			
NAME (PRINT)		INIT.	DATE



TITLE							
HWY 427 EXPANSION							
TYPICAL SECTIONS							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0256	B

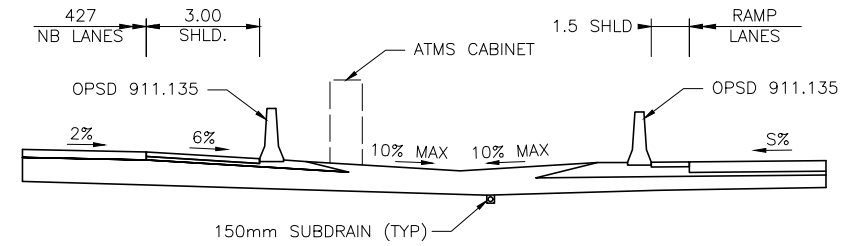


**SB HWY 427 & HWY 7 W-S RAMP
RETAINING WALL DETAIL**
STA. 13+830 - 13+970 (SB)

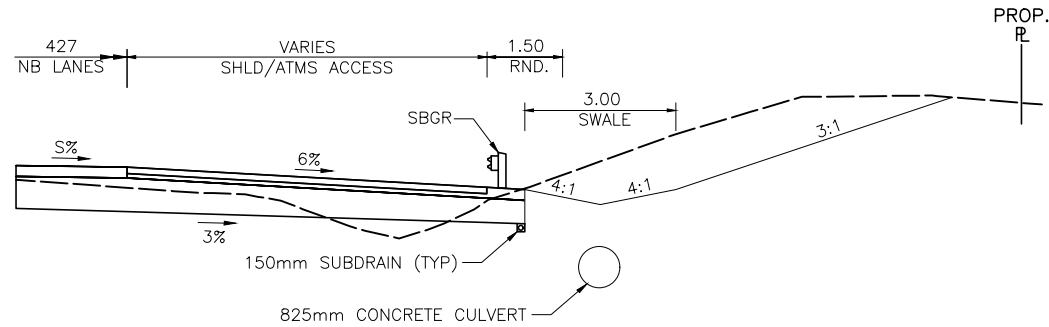
SUPERELEVATION RATES													
PAVEMENT	+6	+5	+4	+3	+2	+1	0	-1	-2	-3	-4	-5	-6
SHOULDER	-2	-2	-2	-3	-3	-3	-4	-5	-6	-6	-6	-6	-6

NOTES:

1. IN WIDENING AREAS, THE TOTAL PAVEMENT THICKNESS MUST MATCH OR EXCEED THE THICKNESS OF THE EXISTING ASPHALT TO ENSURE SUBSURFACE DRAINAGE IS MAINTAINED.



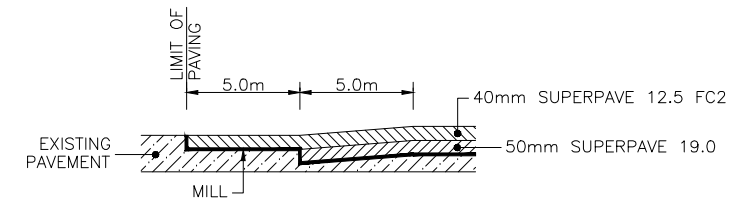
**NB HWY 427 & HWY 407 S-E/W RAMP
ATMS CABINET GRADING DETAIL**
STA. 11+445 - 11+550 (NB)



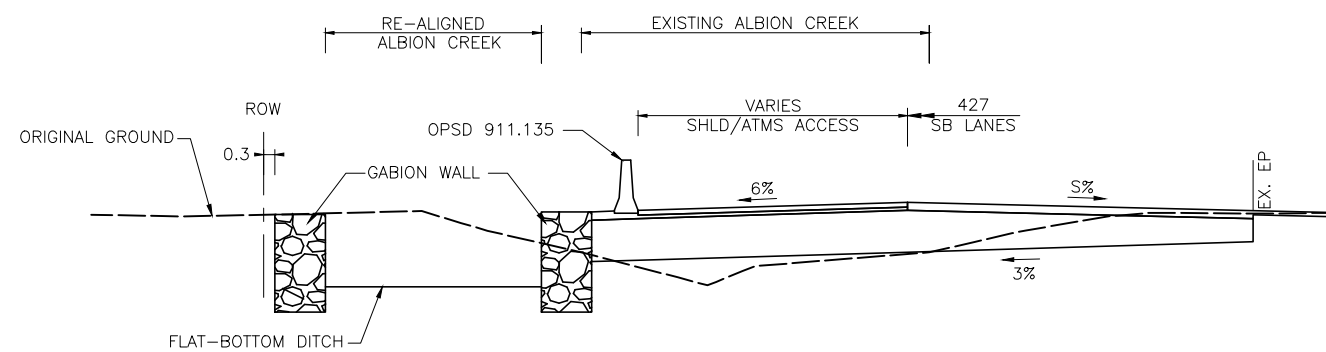
NB HWY 427 SWALE DETAIL WITH CULVERT
STA. 13+570 - 13+661 (NB)

EX. ASPHALT	40mm SUPERPAVE 12.5 FC1 SURFACE COURSE
EX. GRANULAR 'A'	
EX. GRANULAR B	
AVERAGE BOTTOM OF EXISTING GRAVEL	

**TRANSITION TO EXISTING PAVEMENT
FINCH AVE. ALBION ROAD, AND STEELES AVE AT EAST AND WEST LIMIT
STEP JOINT DETAIL**



**TRANSITION TO EXISTING PAVEMENT
HWY 7 AT EAST AND WEST LIMIT
STEP JOINT DETAIL**



SB HWY 427 ALBION CREEK DETAIL
STA. 12+717 - 13+800 (SB)

NO.	DATE	REVISIONS	BY	CHK	LEAD. ENGR.	PROJ. MGR.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

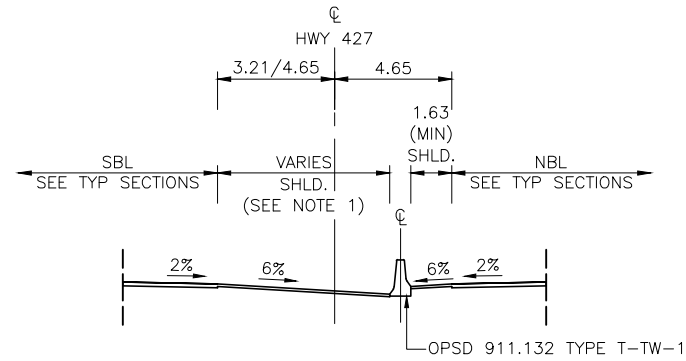
SCALE :

N.T.S.

DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENGINEER	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE

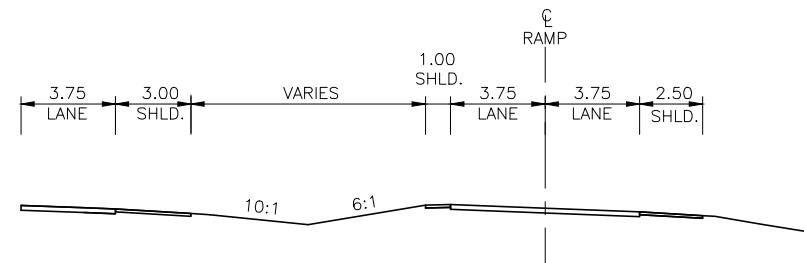


HWY 427 EXPANSION TYPICAL SECTIONS							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	9	HWY	000	DWG	0257	B

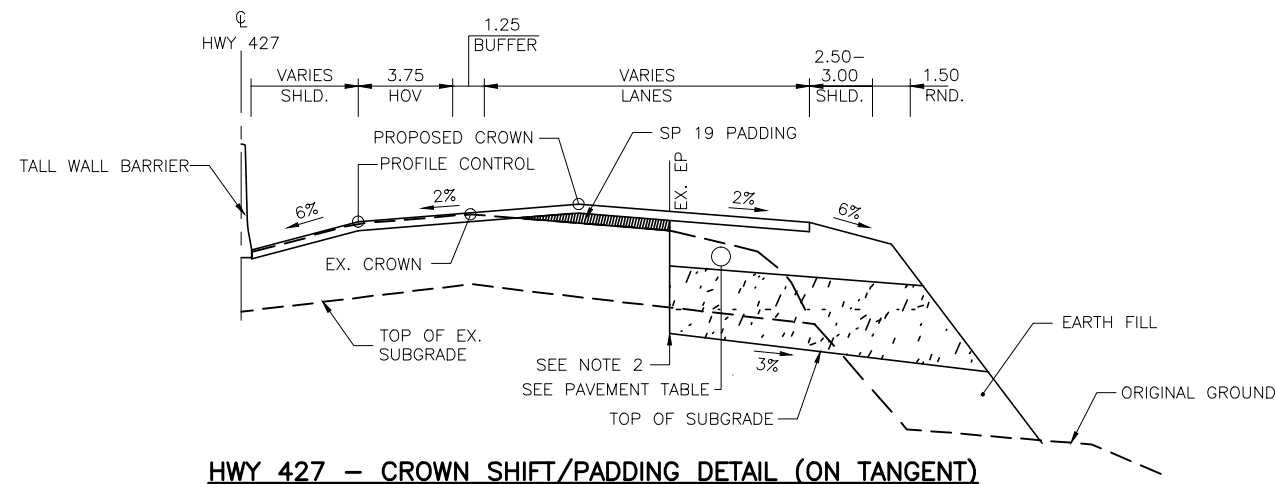


HWY 427 - OPP ENFORCEMENT POCKET

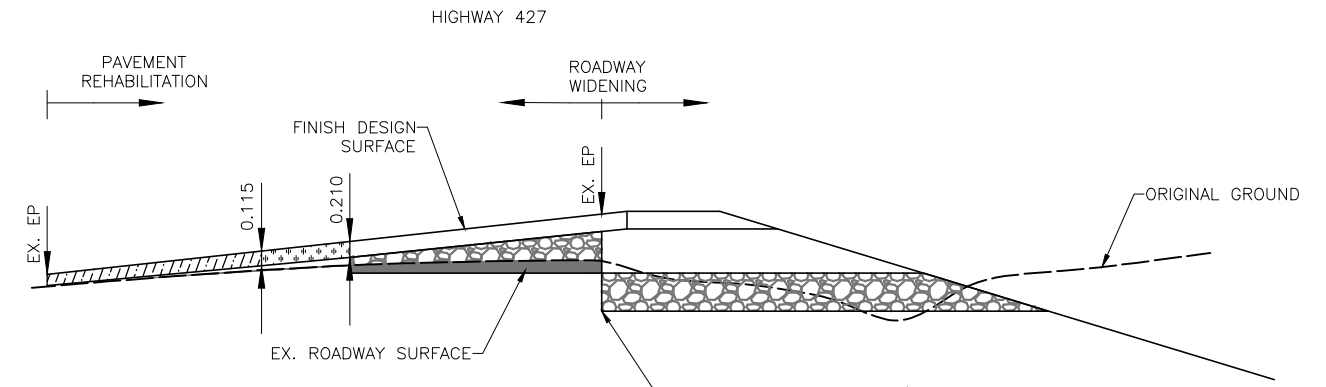
STA. 10+820 - 10+972
STA. 13+240 - 13+392



STANDARD GRADING TREATMENT AT EXIT BULLNOSES



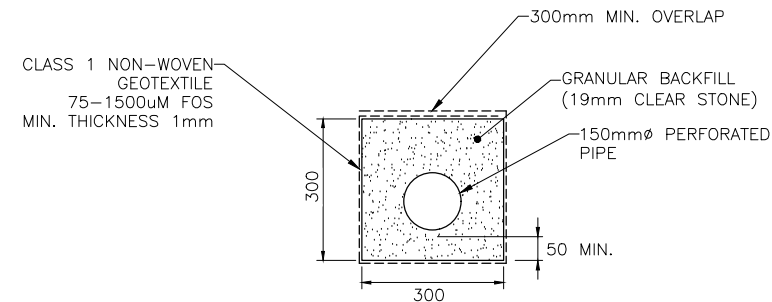
HWY 427 - CROWN SHIFT/PADDING DETAIL (ON TANGENT)



LEGEND:

- MILL AND INLAY (FOR FINISH DESIGN 0-115mm ABOVE ORIG. GROUND)
- PADDING (FOR FINISH DESIGN 115-200mm ABOVE ORIG. GROUND)
- GRANULAR INSTALLATION (FOR FINISH DESIGN +210mm ABOVE ORIG. GROUND)
- EXISTING ASPHALT REMOVAL (FULL DEPTH)

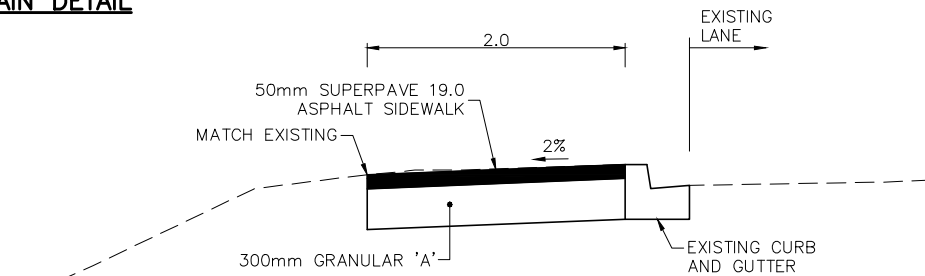
HWY 427 PAVEMENT REHAB DETAIL



SUBDRAIN DETAIL

NOTES:

1. SHOULDER WIDTH VARIES AT BOTH ENDS OF ENFORCEMENT AREAS, SEE PLAN FOR DIMENSIONS.
2. IN WIDENING AREAS, THE TOTAL PAVEMENT THICKNESS MUST MATCH OR EXCEED THE THICKNESS OF THE EXISTING ASPHALT TO ENSURE SUBSURFACE DRAINAGE IS MAINTAINED.



FINCH AVE ASPHALT SIDEWALK DETAIL

STA. 9+871 TO STA. 9+931 LT
STA. 9+937 TO STA. 9+962 LT
STA. 10+041 TO STA. 10+159 LT

NO.	DATE	REVISIONS	BY	CHK	LEAD. DISC.	PROJ. MGR.
B	18/03/20	90% SUBMISSION TO CA				
A	18/01/12	90% SUBMISSION TO CA				

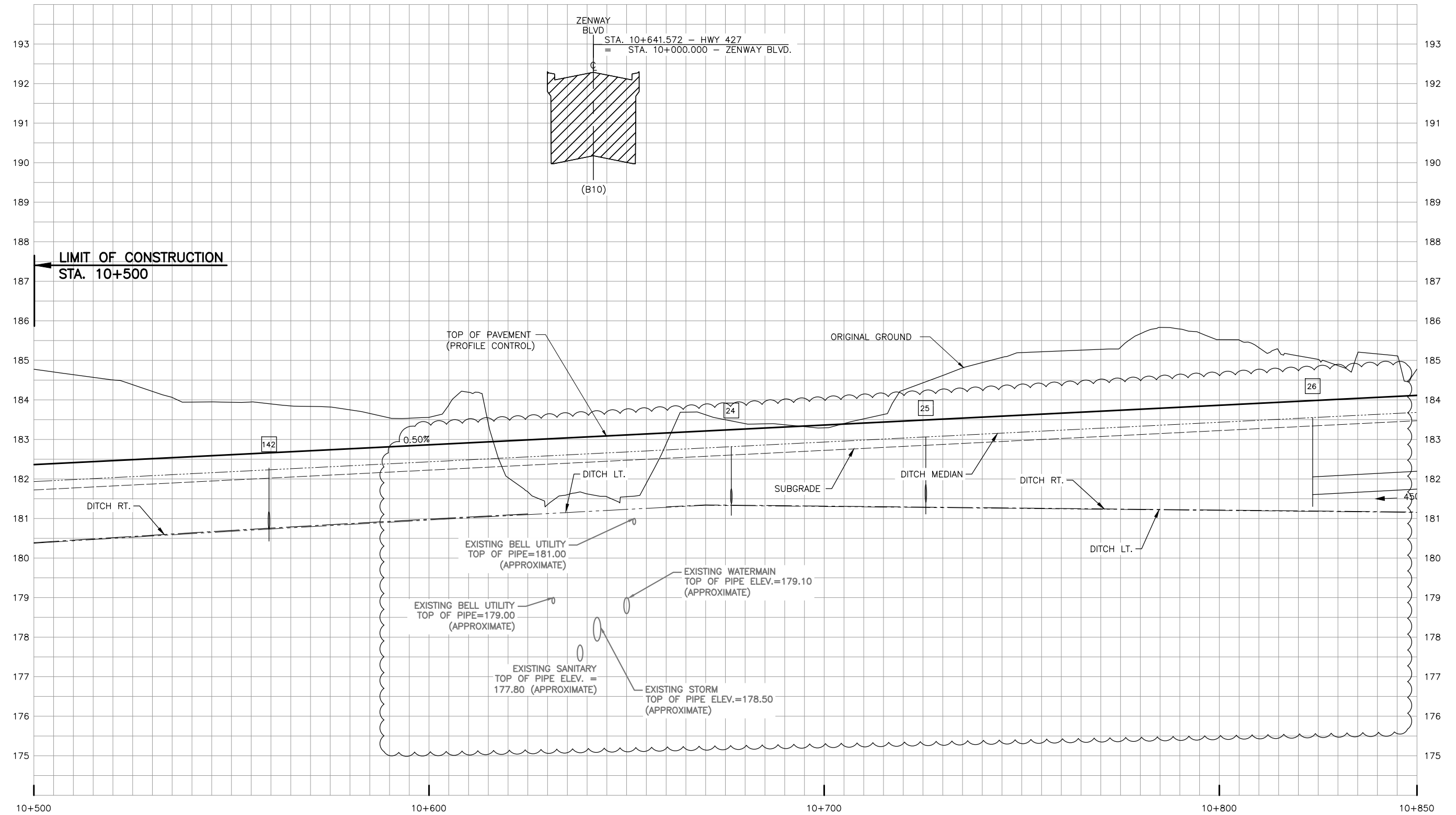
SCALE : N.T.S.

DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENGINEER	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE

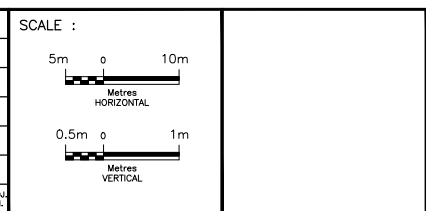


TITLE								HWY 427 EXPANSION			
								TYPICAL SECTIONS			
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER				
H427-D	N	9	HWY	000	DWG	0258	B				

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/16	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

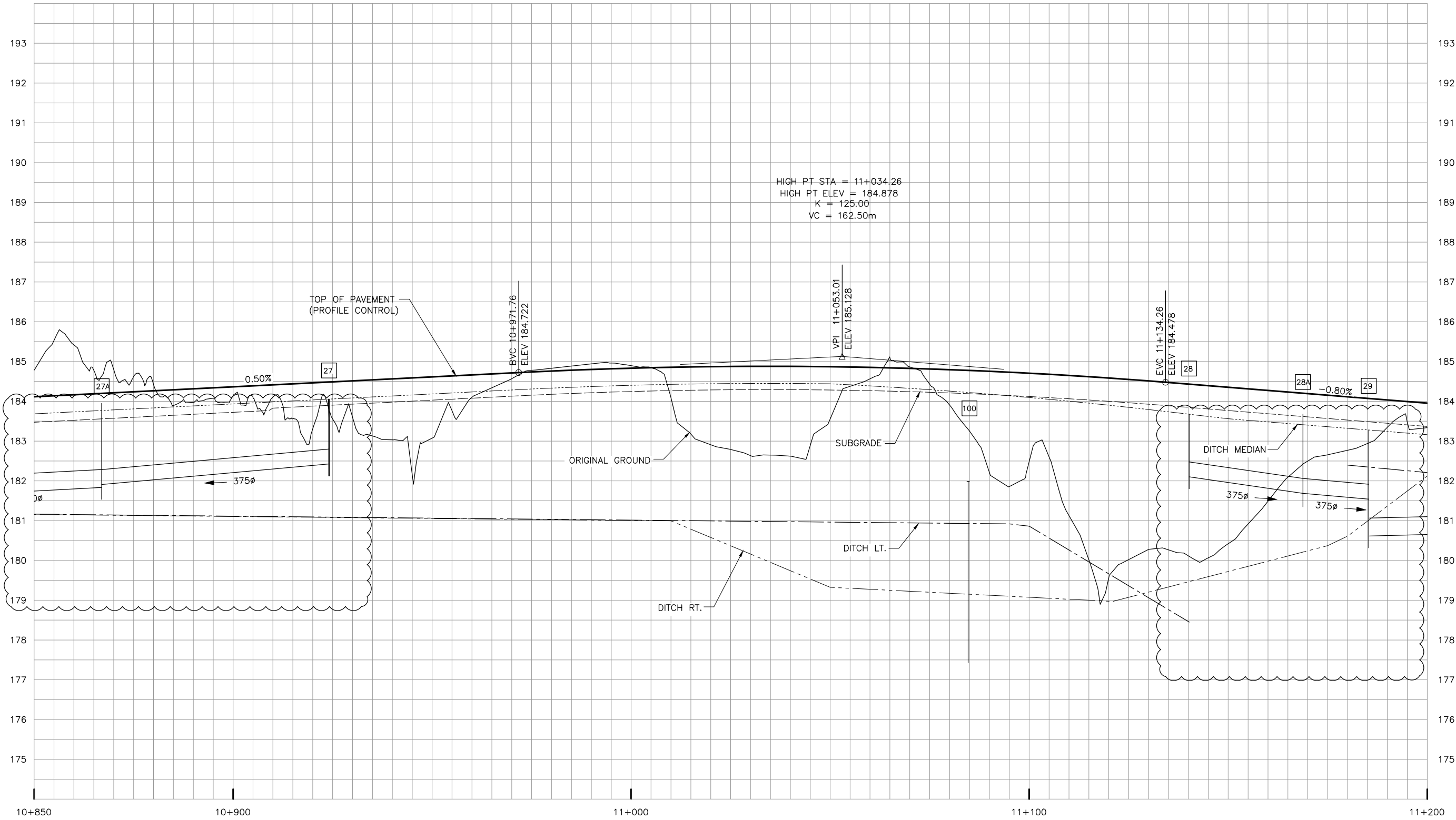


DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANDOZA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENGR.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
		NAME (PRINT)	INIT. DATE



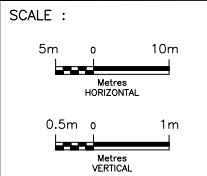
HWY 427 EXPANSION							
PROFILE							
STA. 10+500 TO STA. 10+850							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0067	B

HIGHWAY 427



HIGH PT STA = 11+034.26
 HIGH PT ELEV = 184.878
 K = 125.00
 VC = 162.50m

NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/16	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

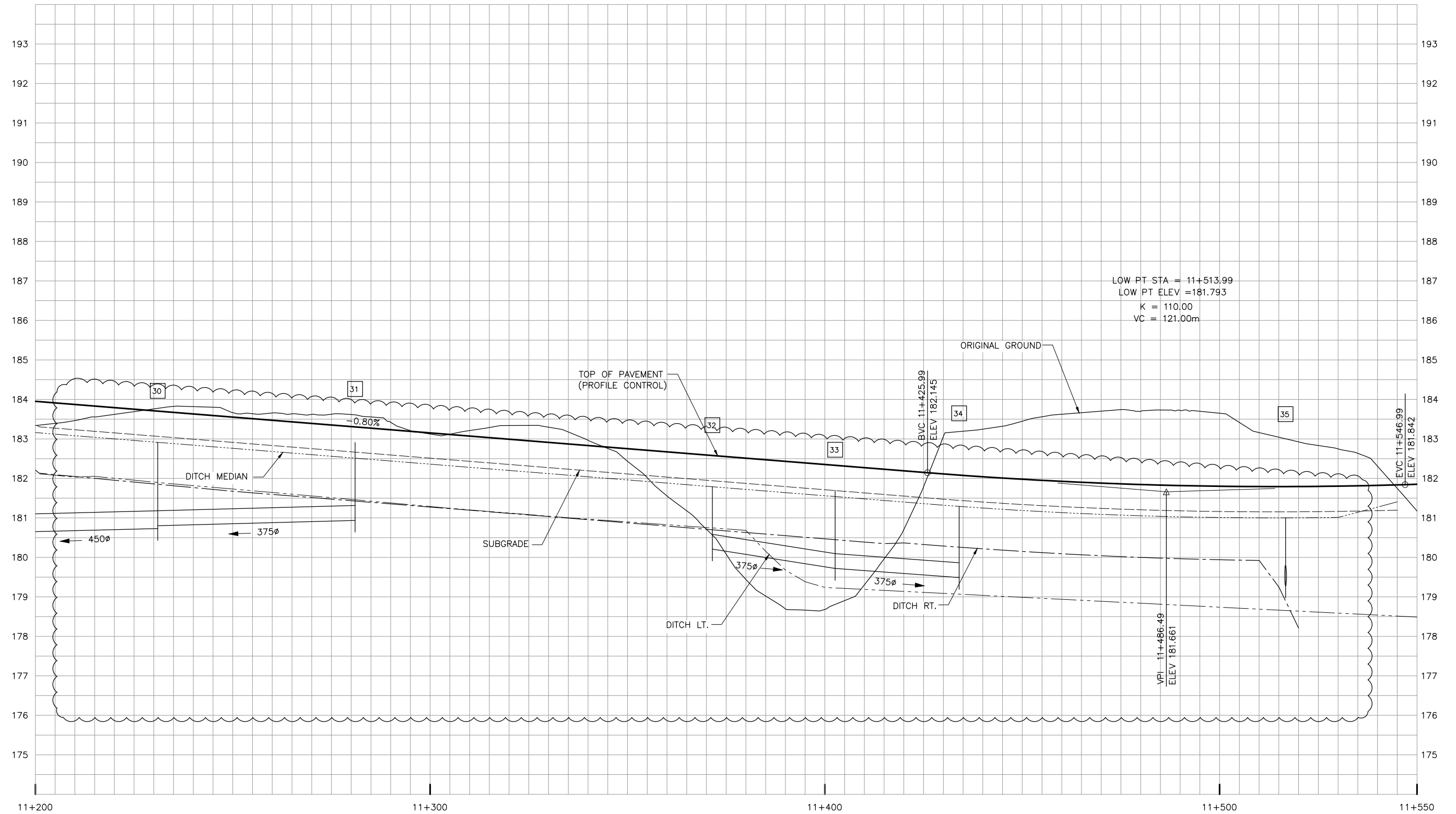


DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
		DATE	

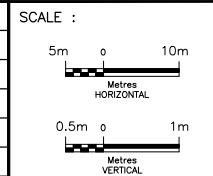


HWY 427 EXPANSION							
PROFILE							
STA. 10+850 TO STA. 11+200							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0068	B

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/16	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

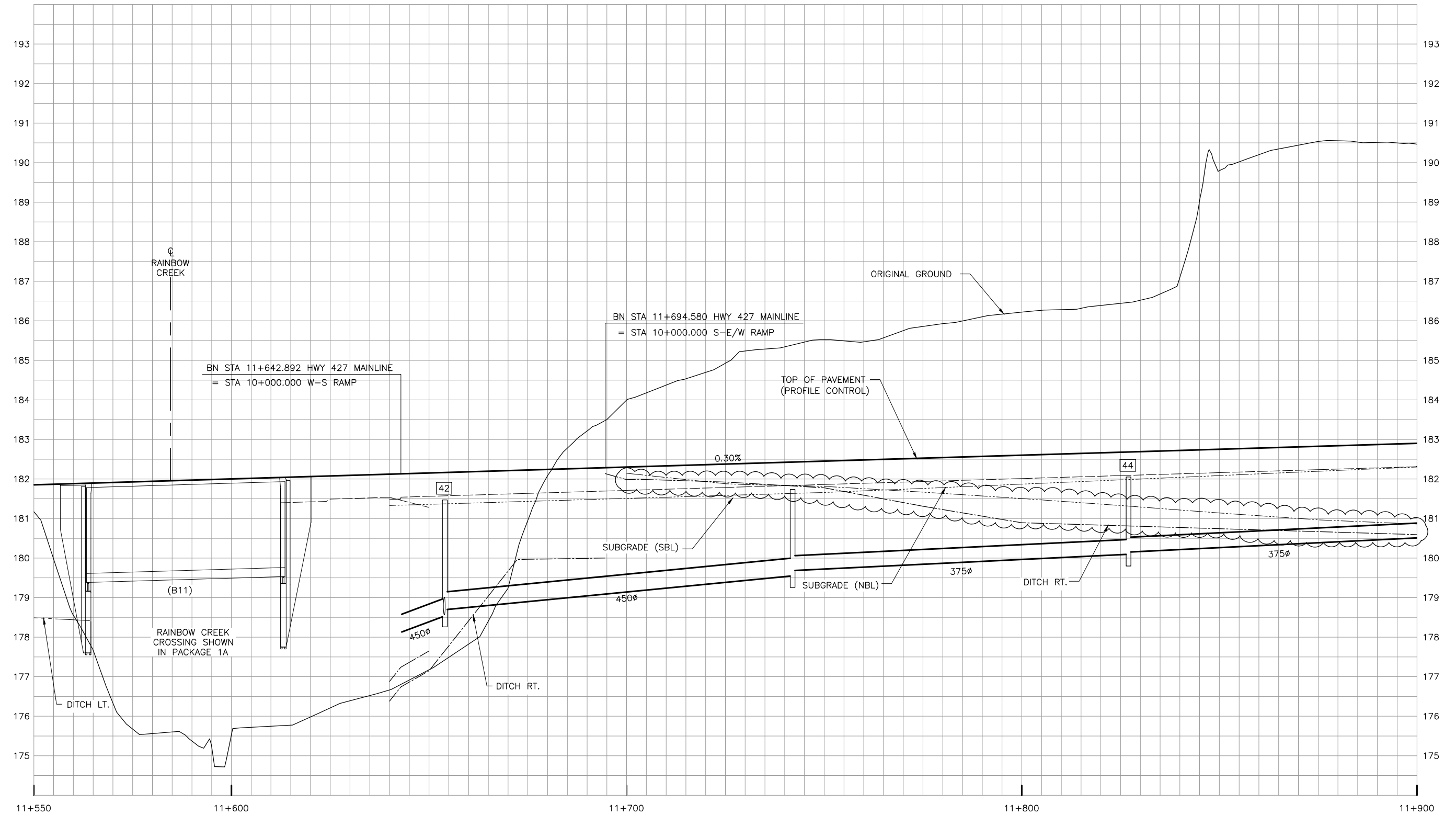


DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
		DATE	

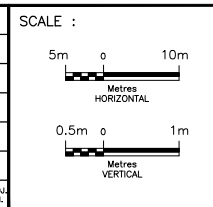


HWY 427 EXPANSION							
PROFILE							
STA. 11+200 TO STA. 11+550							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0069	B

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/16	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

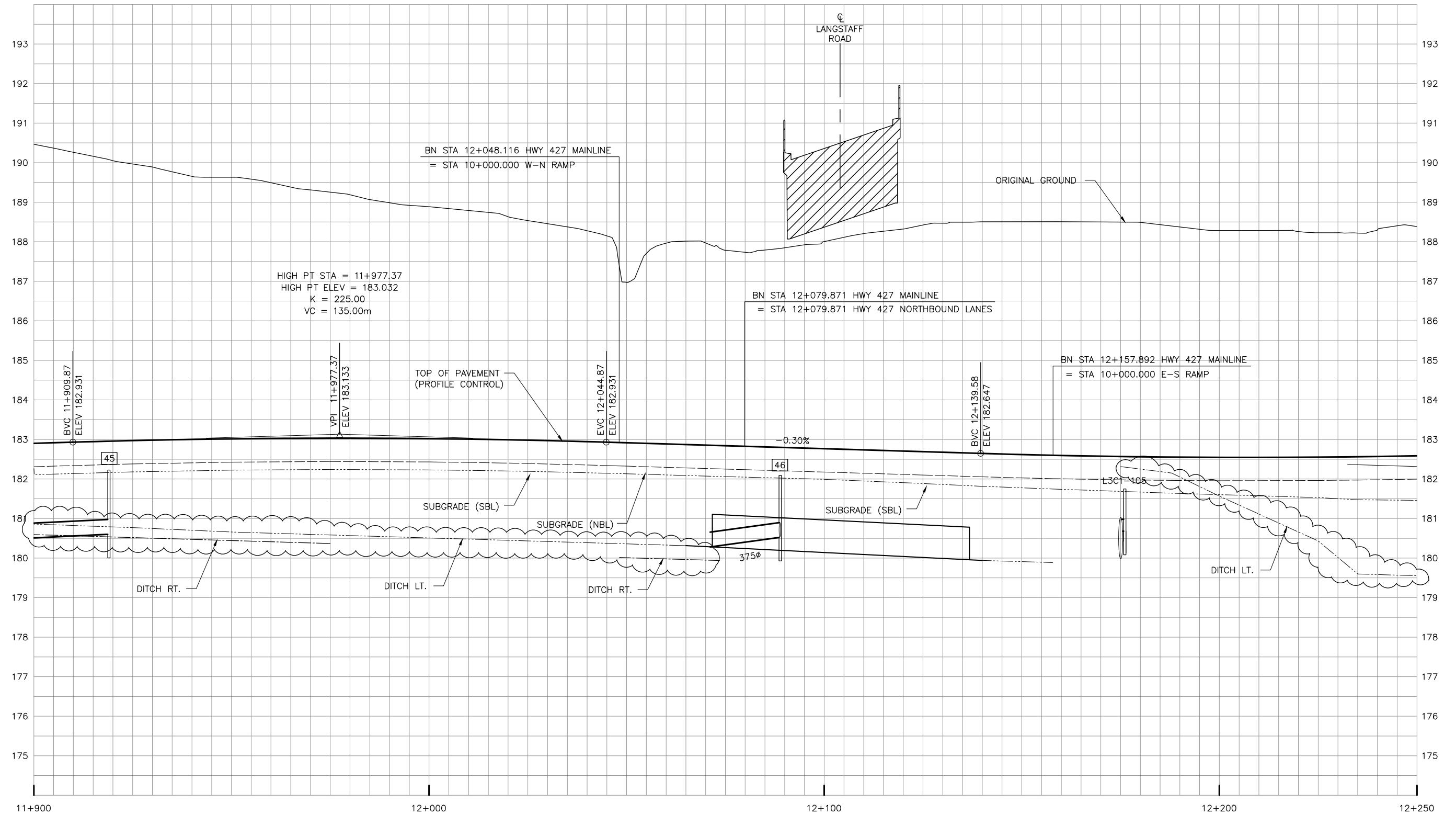


DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENGR.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
		DATE	

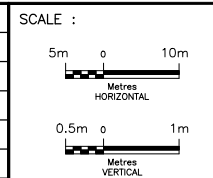


HWY 427 EXPANSION							
PROFILE							
STA. 11+550 TO STA. 11+900							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0070	B

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

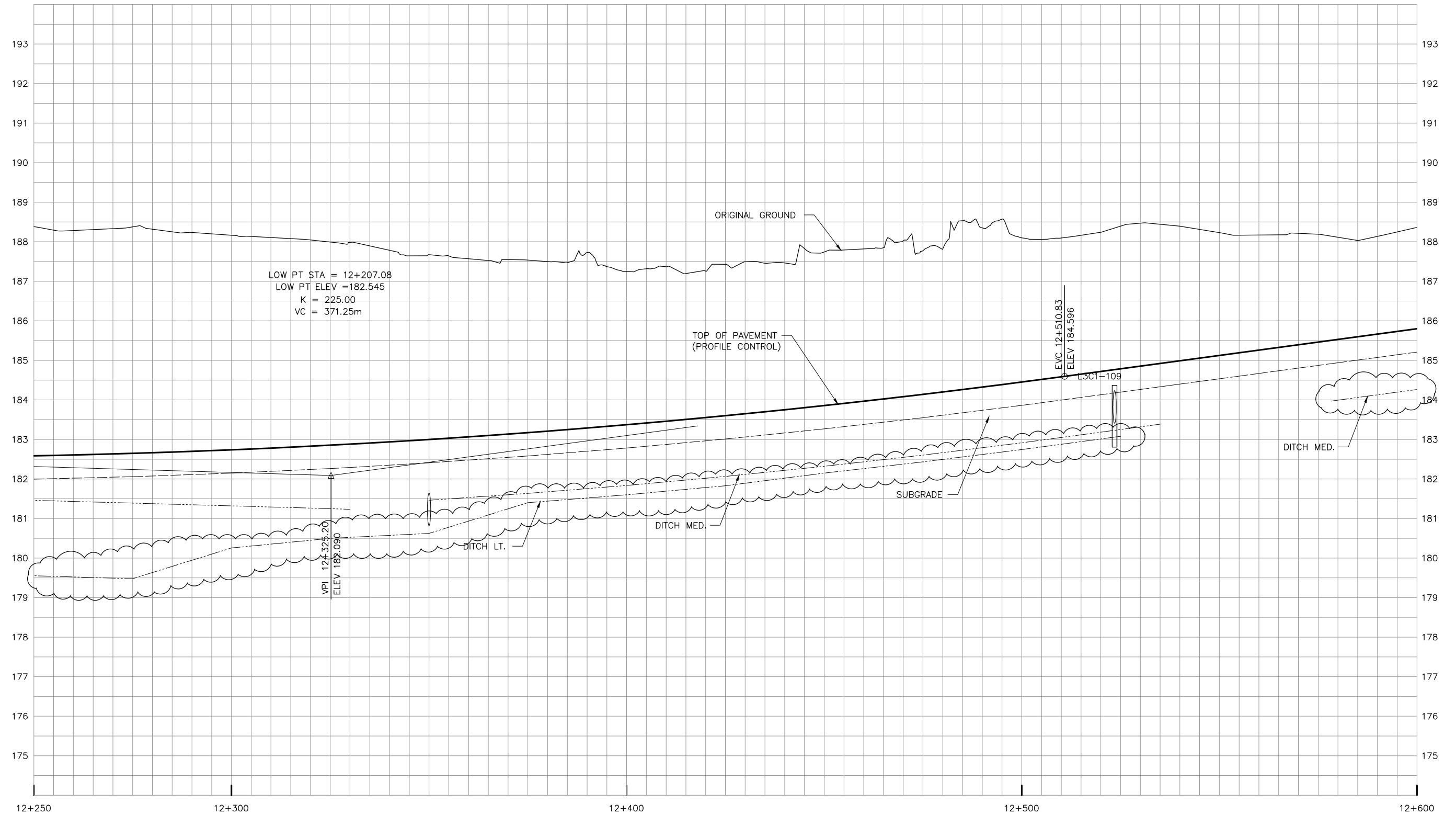


DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
		DATE	

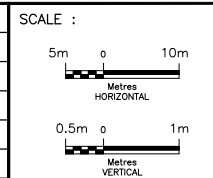


HWY 427 EXPANSION							
PROFILE							
STA. 11+900 TO STA. 12+250							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0071	B

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
					DISC.	MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				



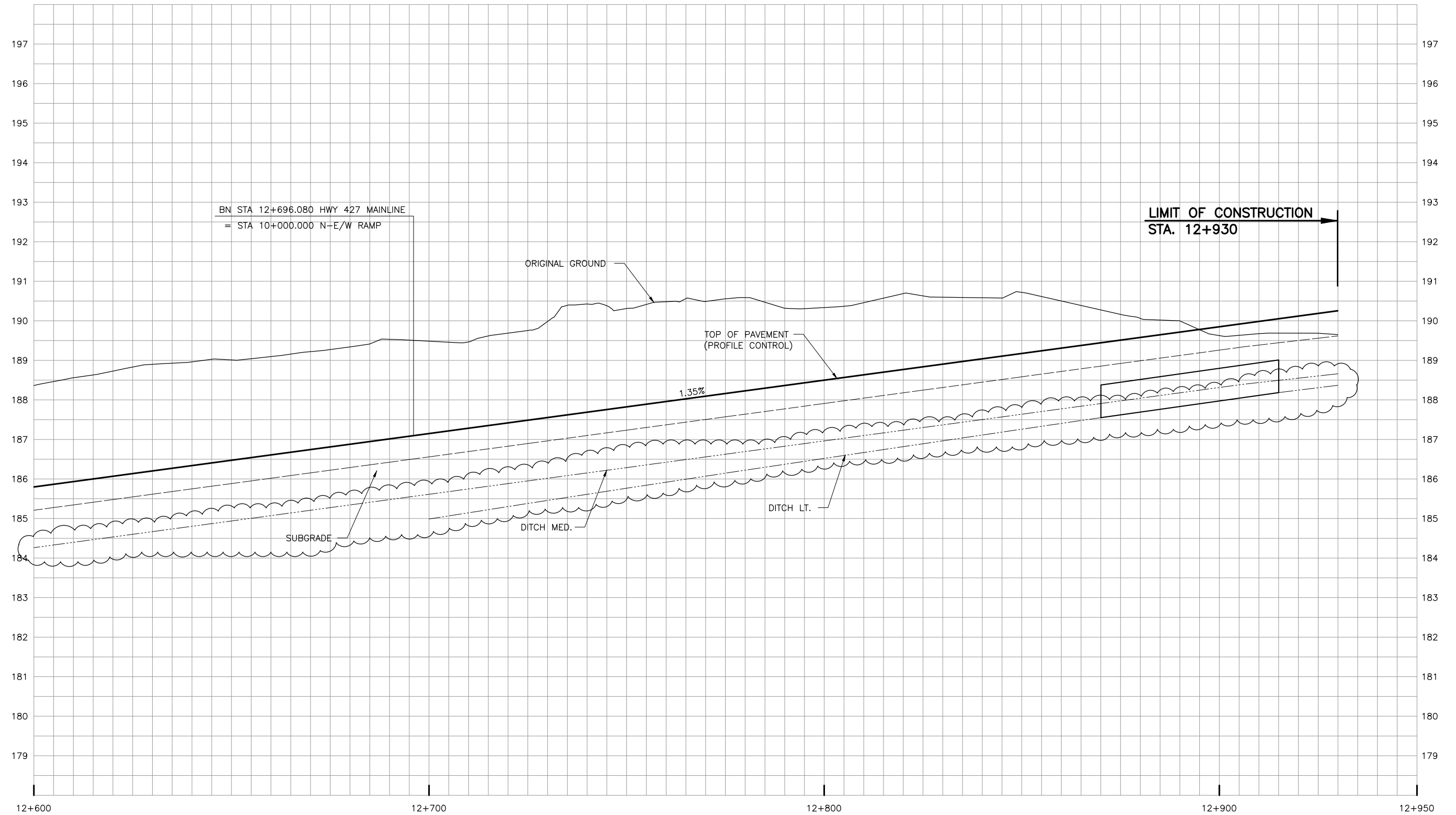
DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENGR.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
	NAME (PRINT)	INIT.	DATE



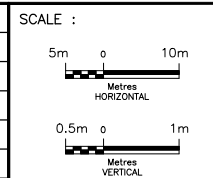
HWY 427 EXPANSION
PROFILE
STA. 12+250 TO STA. 12+600

PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0072	B

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

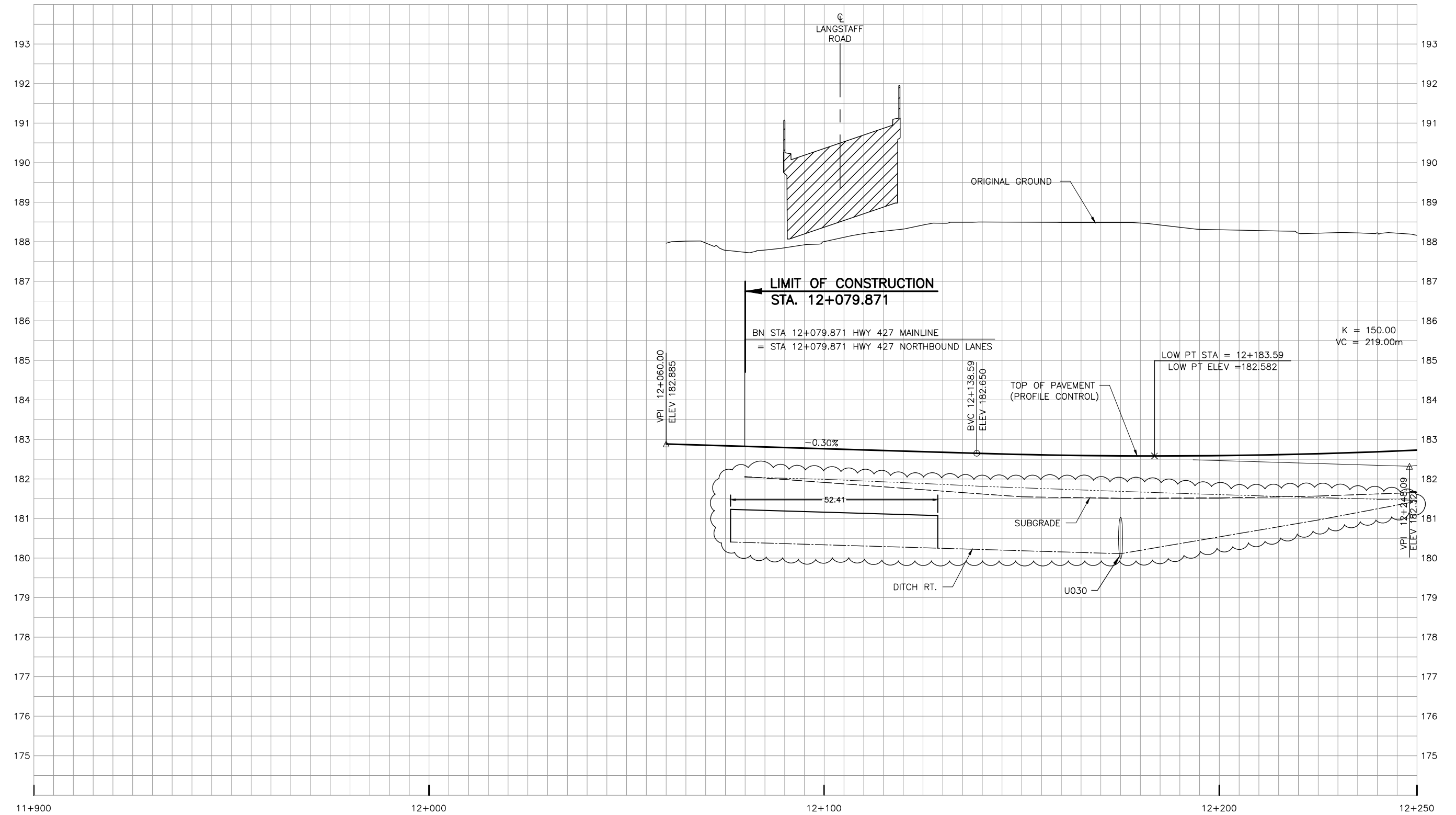


DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
		DATE	

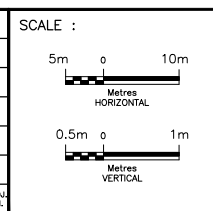


HWY 427 EXPANSION							
PROFILE							
STA. 12+600 TO STA. 12+930							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0073	B

HIGHWAY 427 (NORTHBOUND LANES)



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				



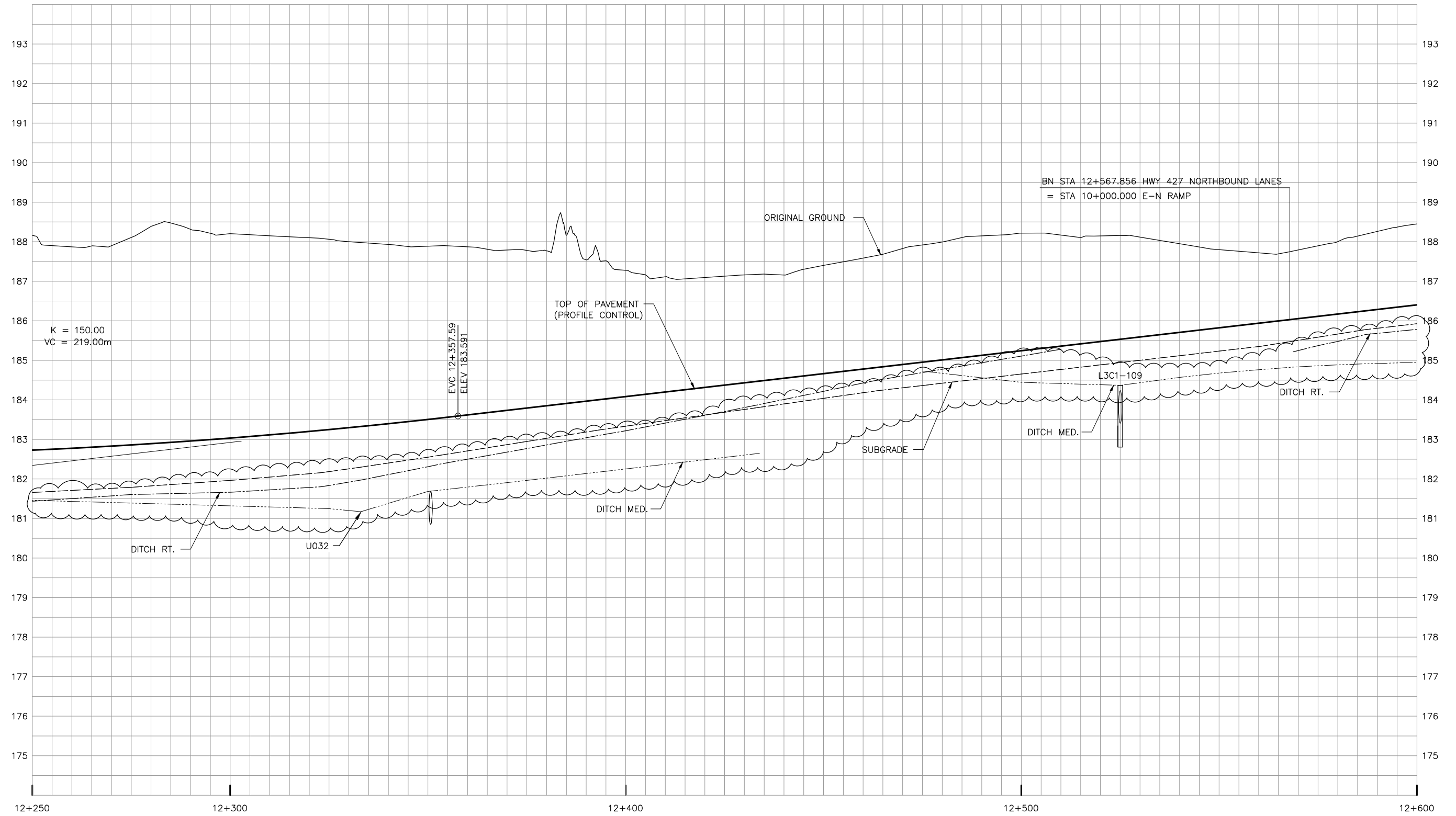
DESIGNED	SARAH ROBERTS
DRAWN	SARAH ROBERTS
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH

NAME (PRINT)	INIT.	DATE

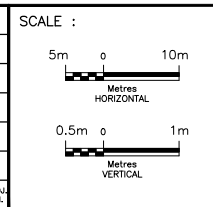


HWY 427 EXPANSION							
PROFILE							
STA. 12+078.43 TO STA. 12+250							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0074	B

HIGHWAY 427 (NORTHBOUND LANES)



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.

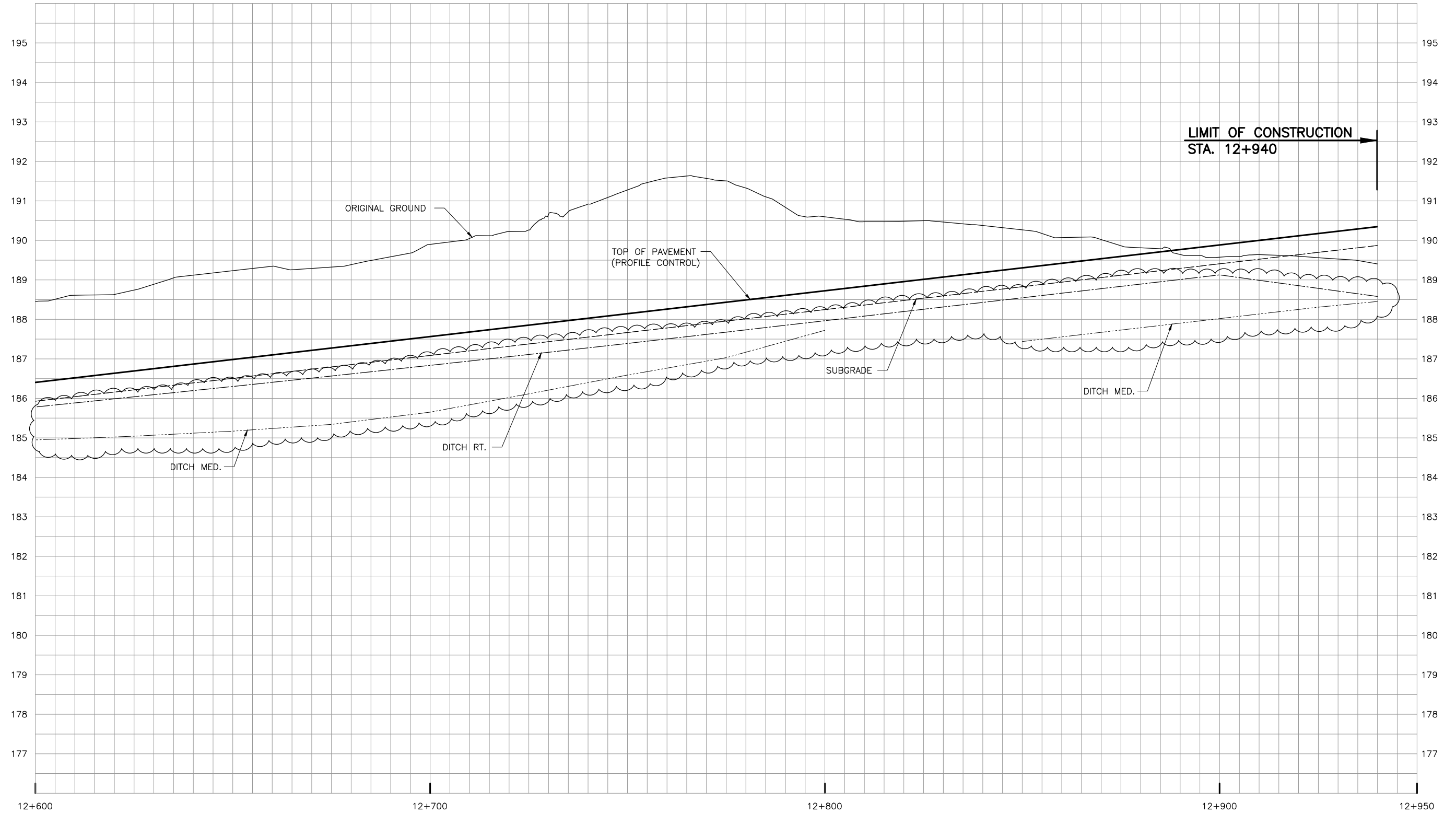


DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENGR.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
		NAME (PRINT)	INIT.

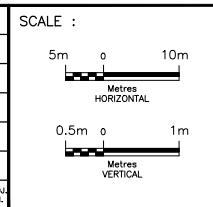


HWY 427 EXPANSION							
PROFILE							
STA. 12+250 TO STA. 12+600							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	H	1	HWY	000	DWG	0075	A

HIGHWAY 427 (NORTHBOUND LANES)



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.

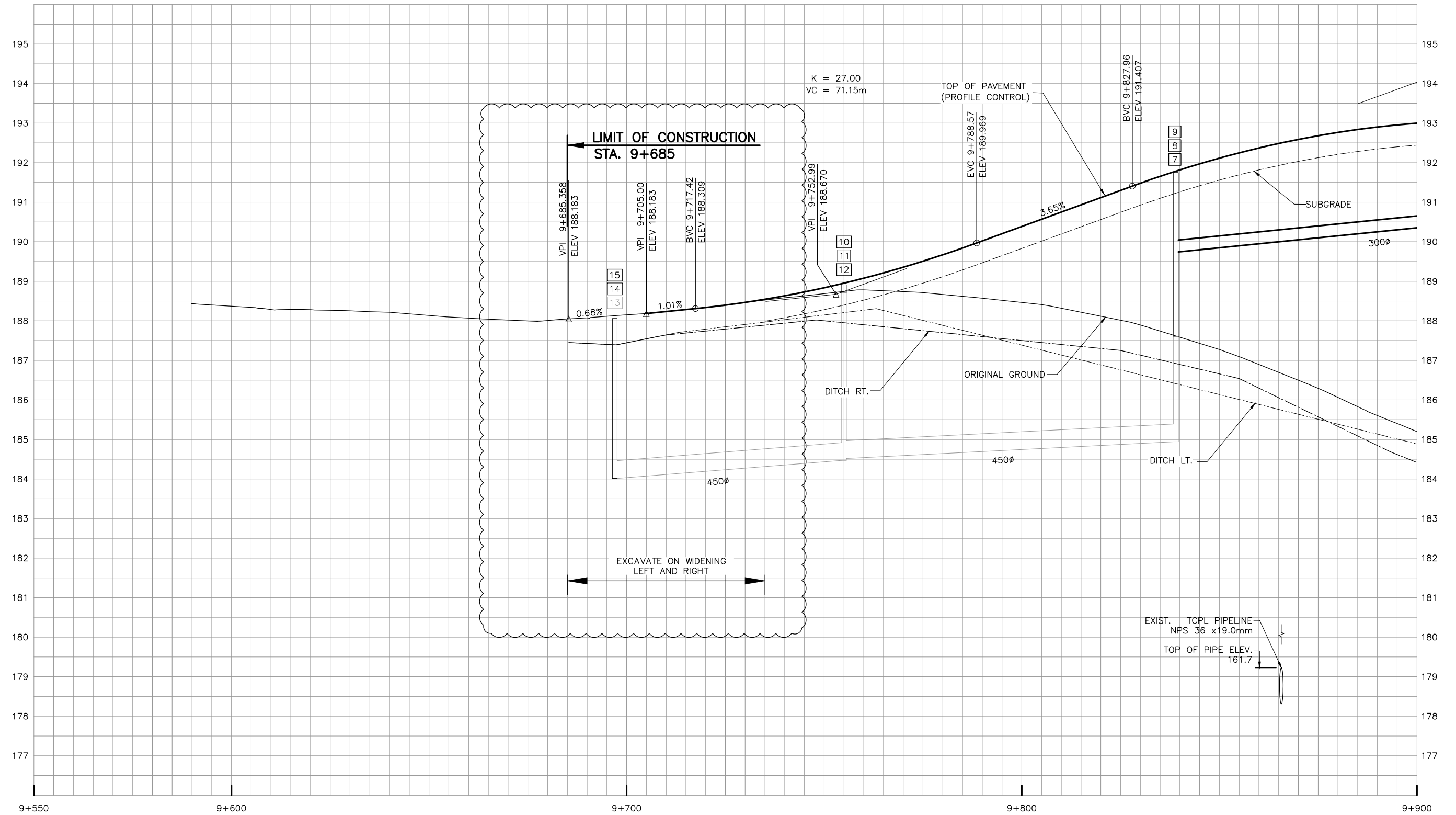


DESIGNED	SARAH ROBERTS	
DRAWN	SARAH ROBERTS	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENG.	JONATHAN MOHACSI	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

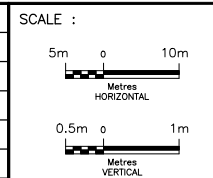


HWY 427 EXPANSION							
PROFILE							
STA. 12+600 TO STA. 12+940							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	H	1	HWY	000	DWG	0076	A

ZENWAY BOULEVARD



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/16	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				



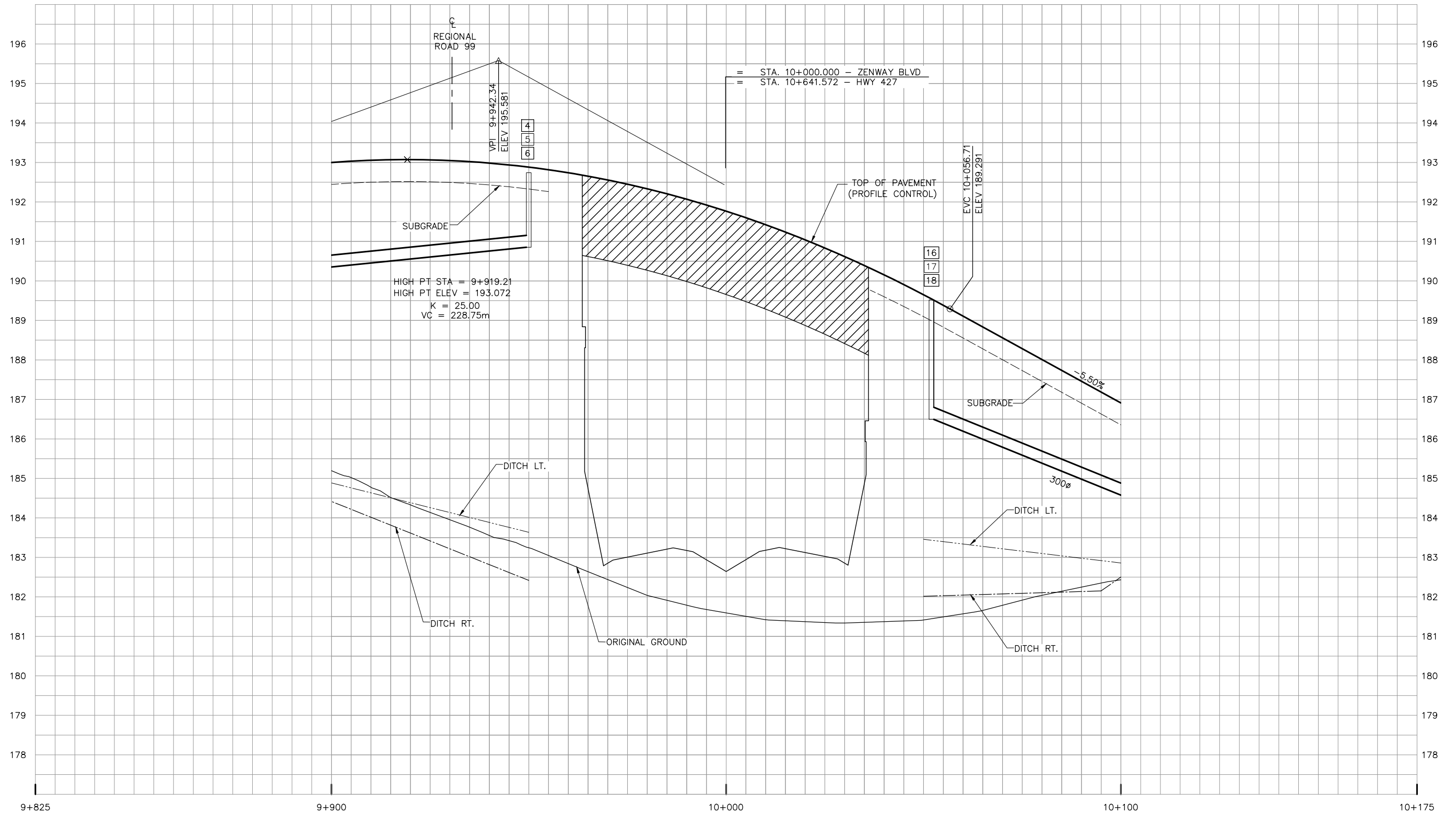
DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
DATE			



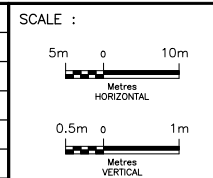
HWY 427 EXPANSION
PROFILE
STA. 9+685 TO STA. 9+900

PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0077	B

ZENWAY BOULEVARD



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
B	18/3/16	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

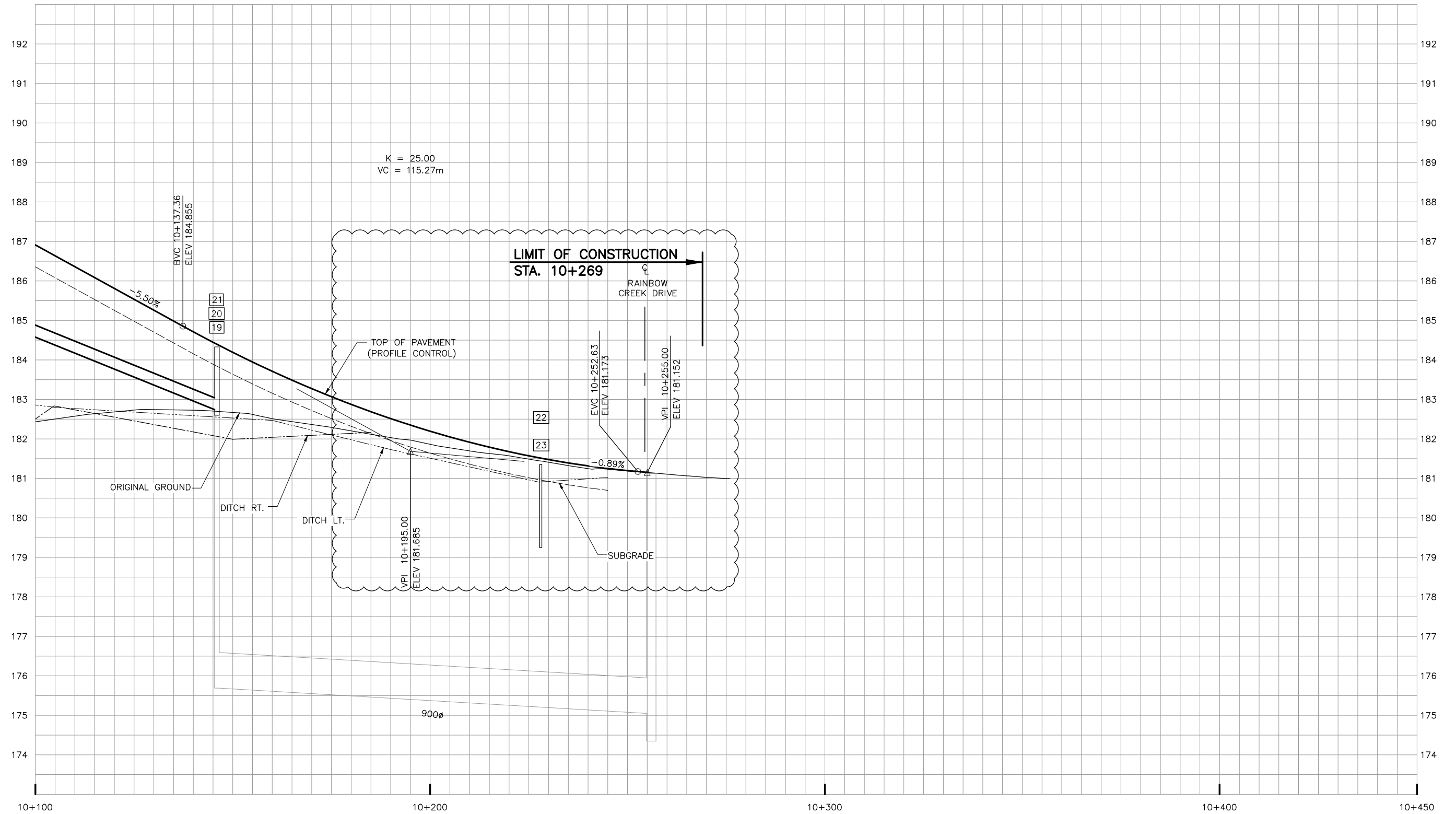


DESIGNED	PATRICK LECLERC	INIT.	DATE
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENGR.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE

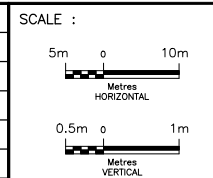


HWY 427 EXPANSION							
PROFILE							
STA. 9+900 TO STA. 10+100							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0078	B

ZENWAY BOULEVARD



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/16	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				



DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
		NAME (PRINT)	INIT. DATE

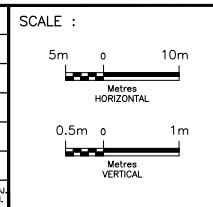


HWY 427 EXPANSION							
PROFILE							
STA. 10+100 TO STA. 10+269							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0079	B

LANGSTAFF ROAD EASTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				



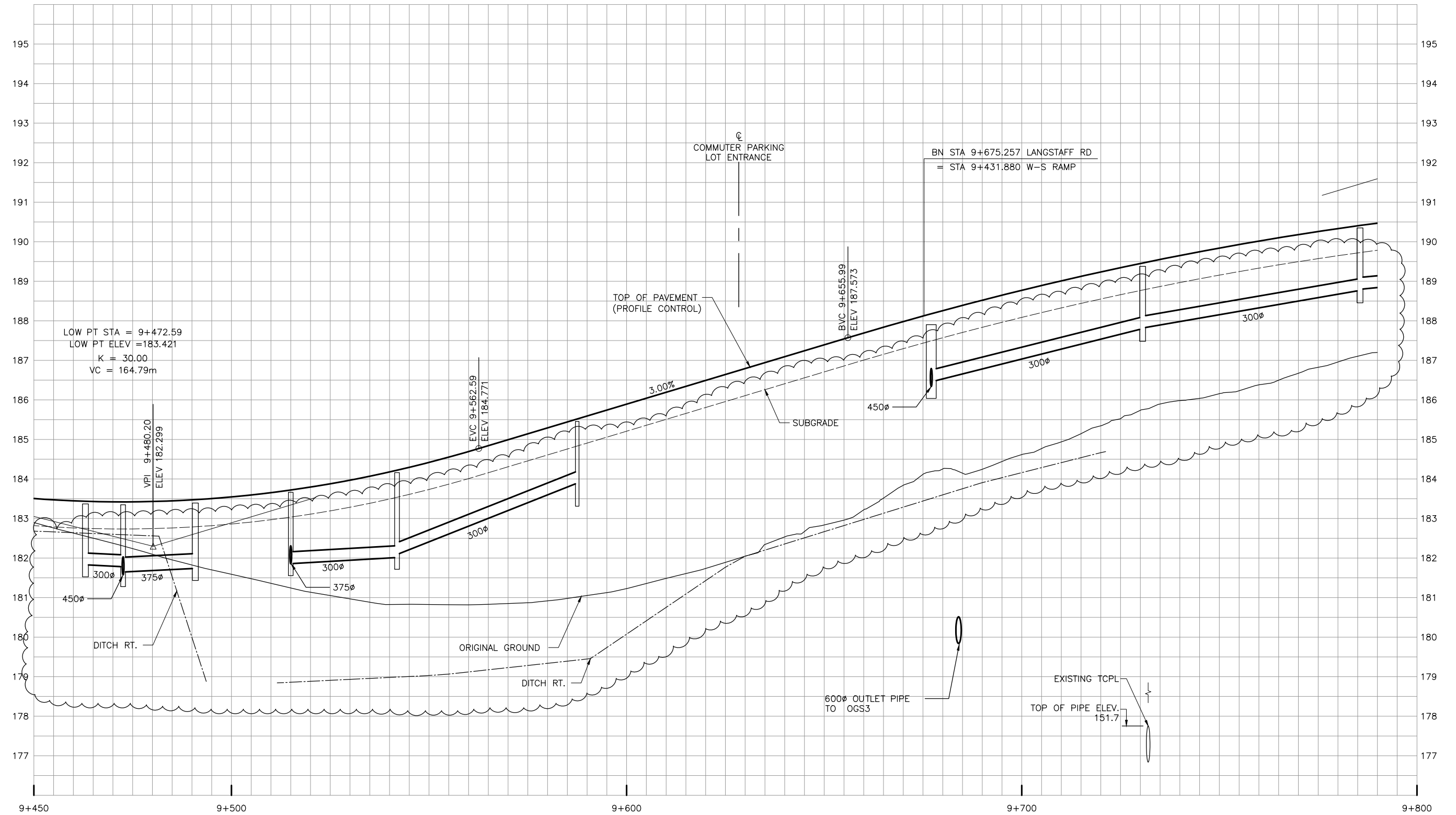
DESIGNED	SARAH ROBERTS	
DRAWN	SARAH ROBERTS	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENG.	JONATHAN MOHACSI	
APPROVED PROJ. MANAGER	PETER BAMFORTH	

CONSULTANT		
NAME (PRINT)		INIT. DATE

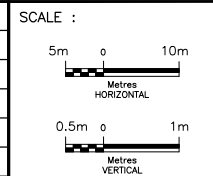


HWY 427 EXPANSION							
PROFILE STA. 9+387 TO STA. 9+450							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0080	B

LANGSTAFF ROAD EASTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

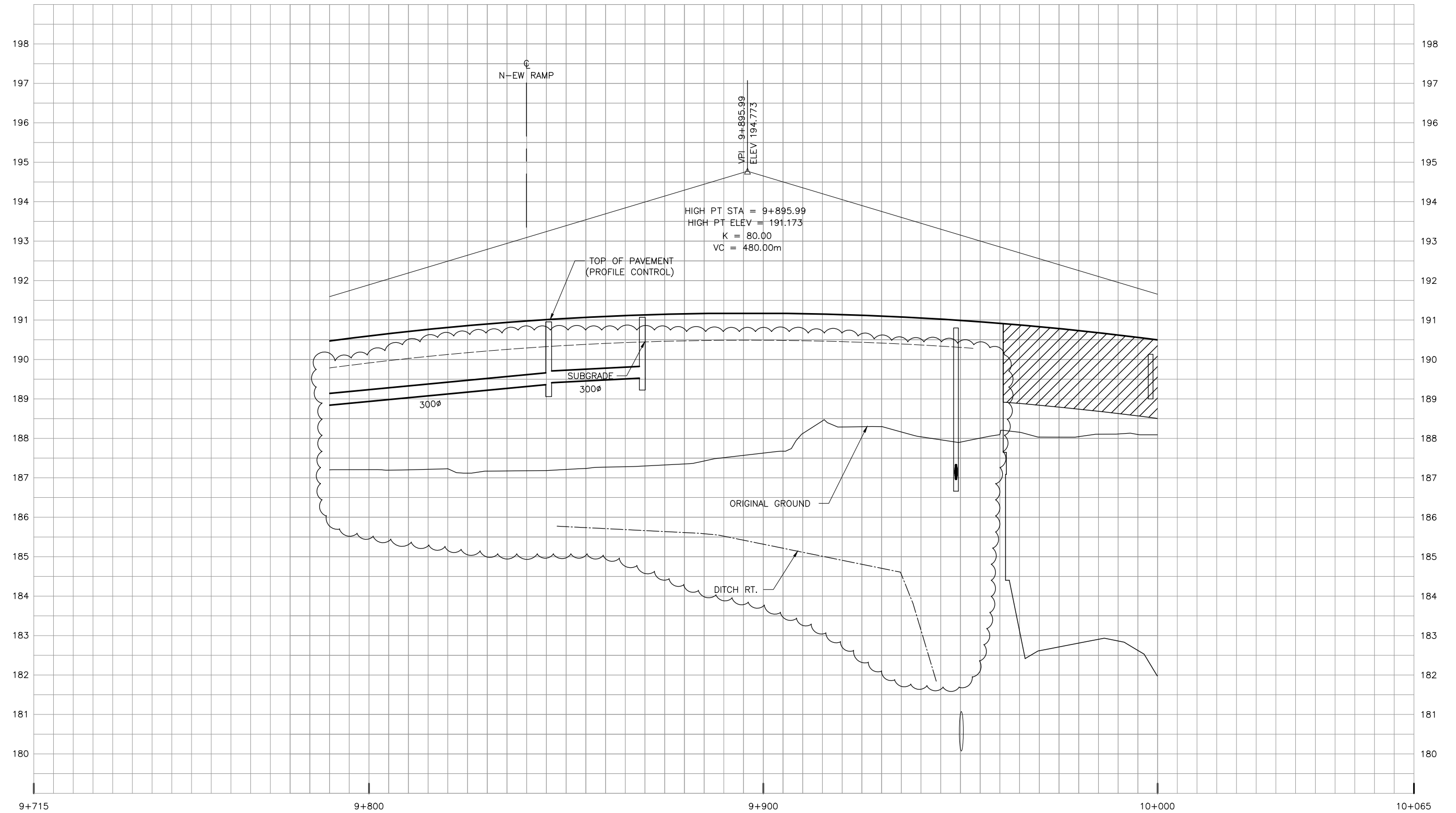


DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
		DATE	

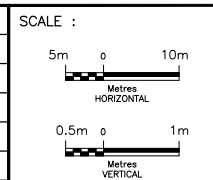


HWY 427 EXPANSION							
PROFILE STA. 9+450 TO STA. 9+790							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0081	B

LANGSTAFF ROAD EASTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

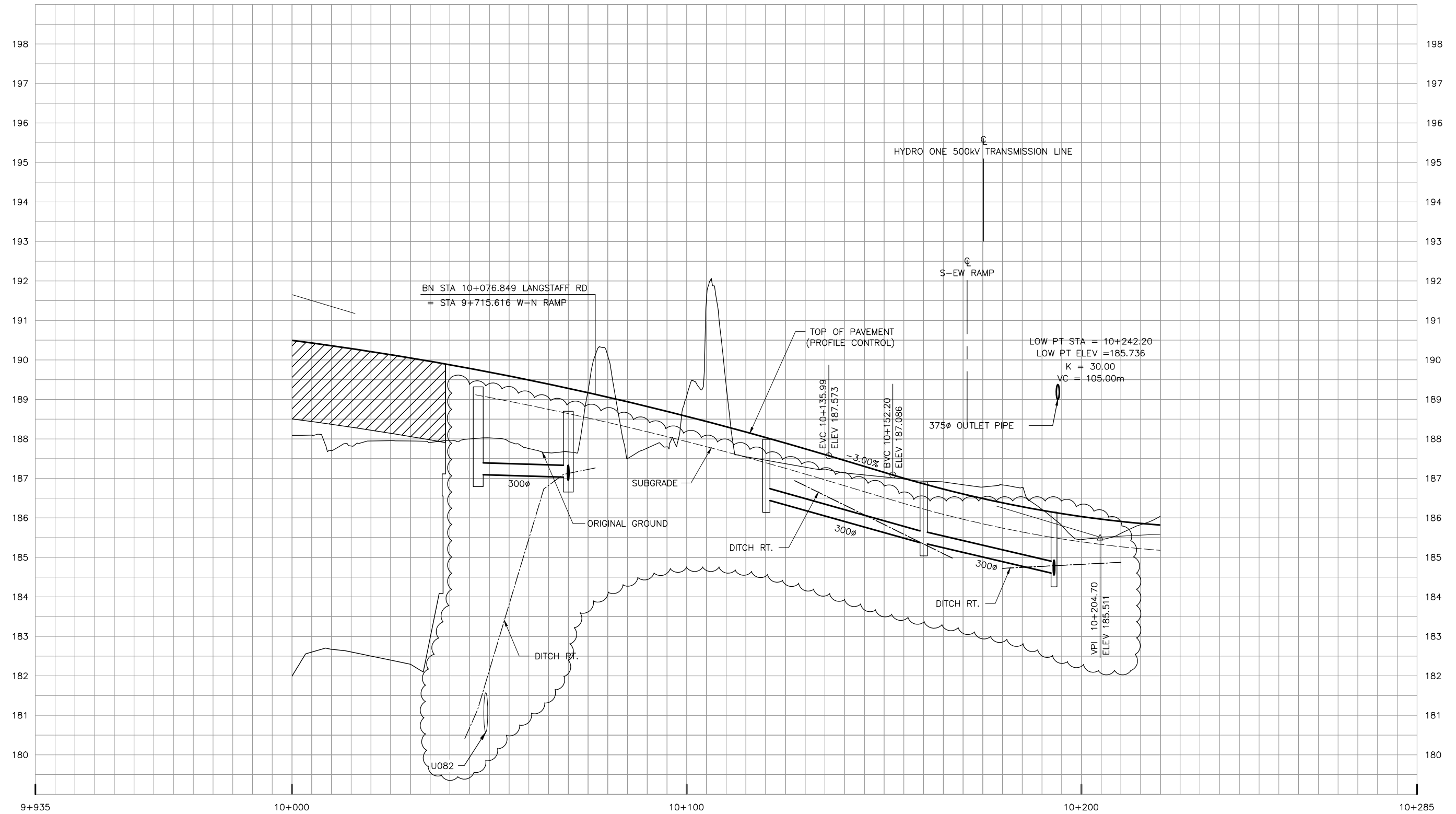


DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
		DATE	

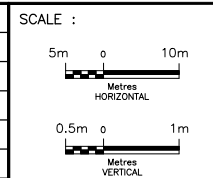


HWY 427 EXPANSION							
PROFILE							
STA. 9+790 TO STA. 10+000							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0082	B

LANGSTAFF ROAD EASTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

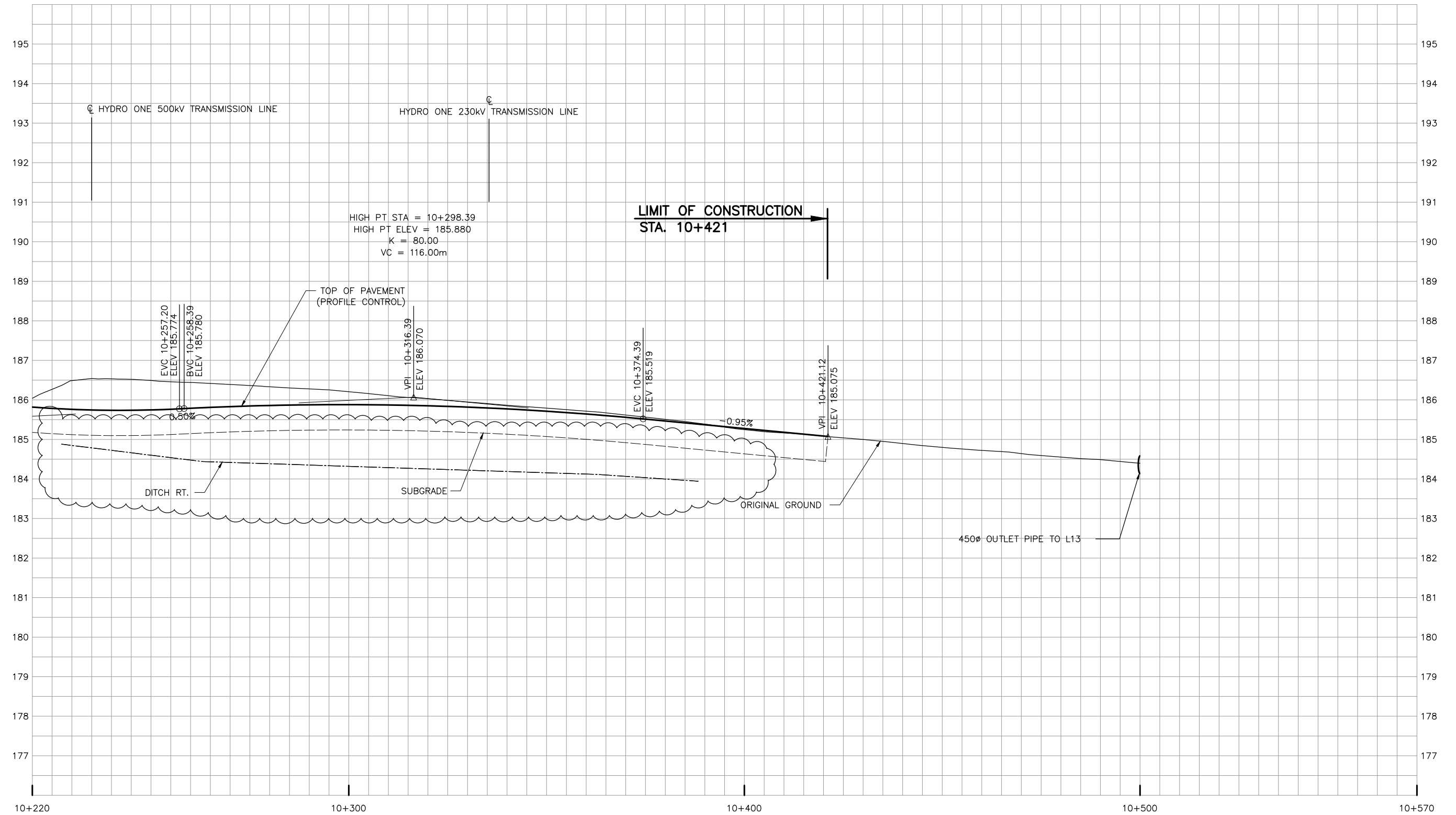


DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
		DATE	

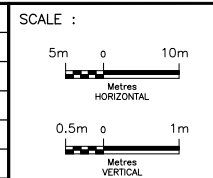


HWY 427 EXPANSION							
PROFILE							
STA. 10+000 TO STA. 10+220							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0083	B

LANGSTAFF ROAD EASTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				



DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
		DATE	



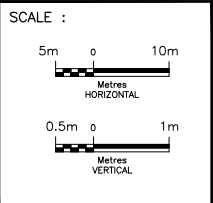
HWY 427 EXPANSION
PROFILE
STA. 10+220 TO STA. 10+421

PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0084	B

LANGSTAFF ROAD WESTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

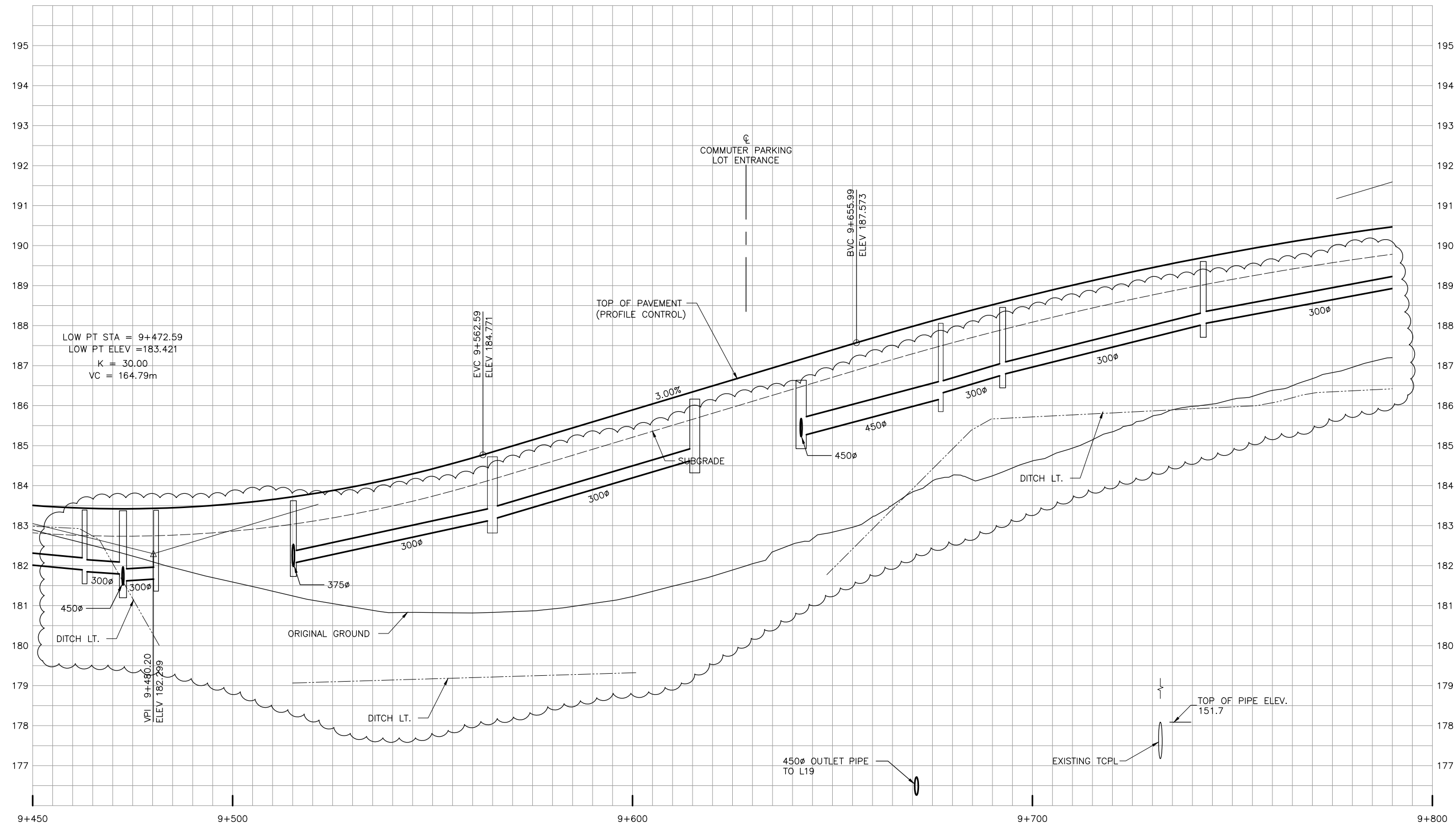


DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
DATE			

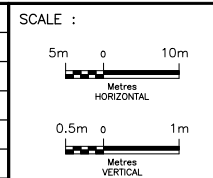


HWY 427 EXPANSION							
PROFILE STA. 9+387 TO STA. 9+450							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0085	B

LANGSTAFF ROAD WESTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				



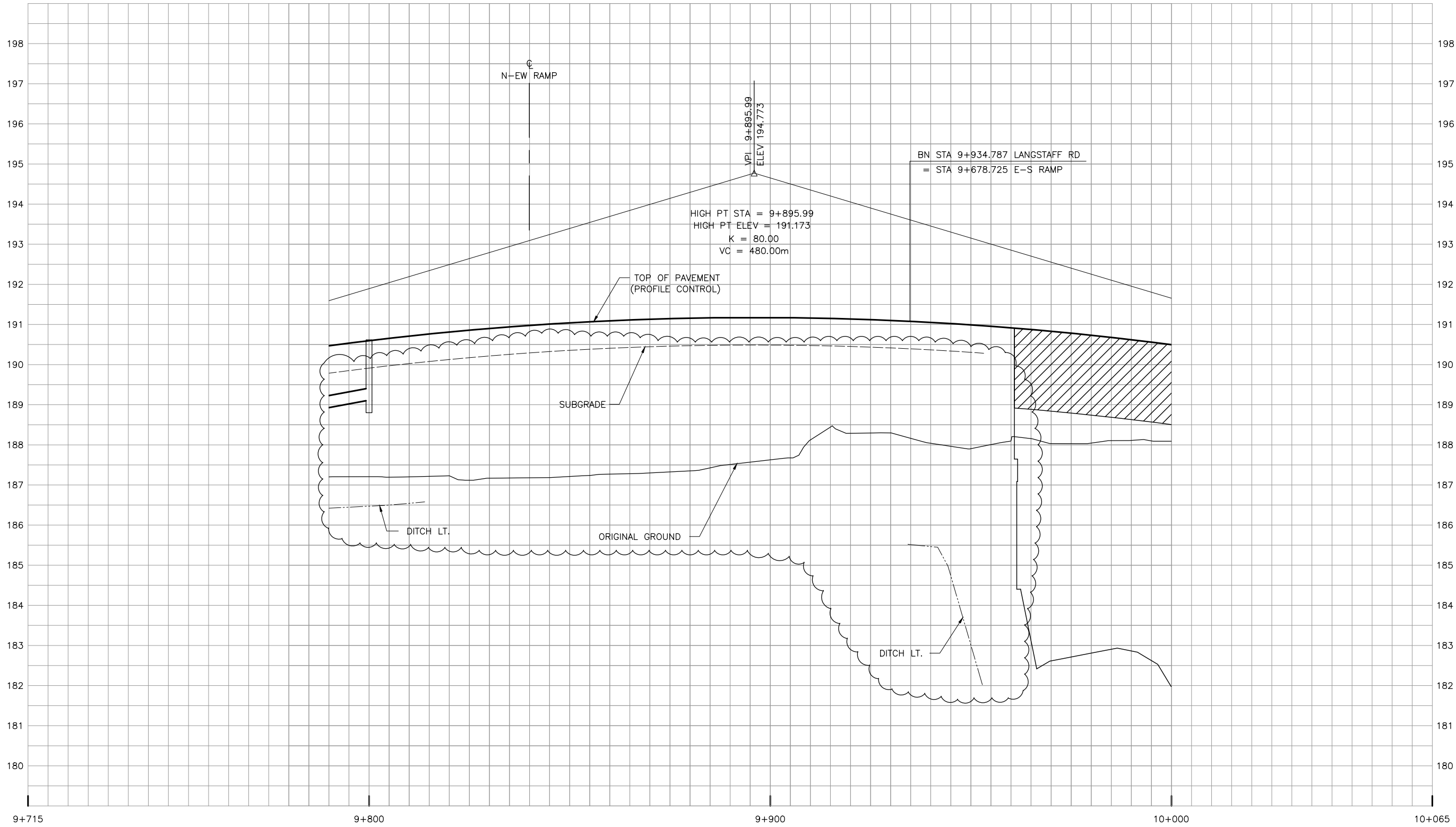
DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENGR.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE



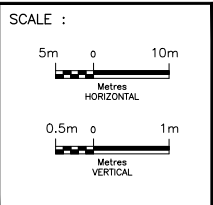
HWY 427 EXPANSION
PROFILE
STA. 9+450 TO STA. 9+790

PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0086	B

LANGSTAFF ROAD WESTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

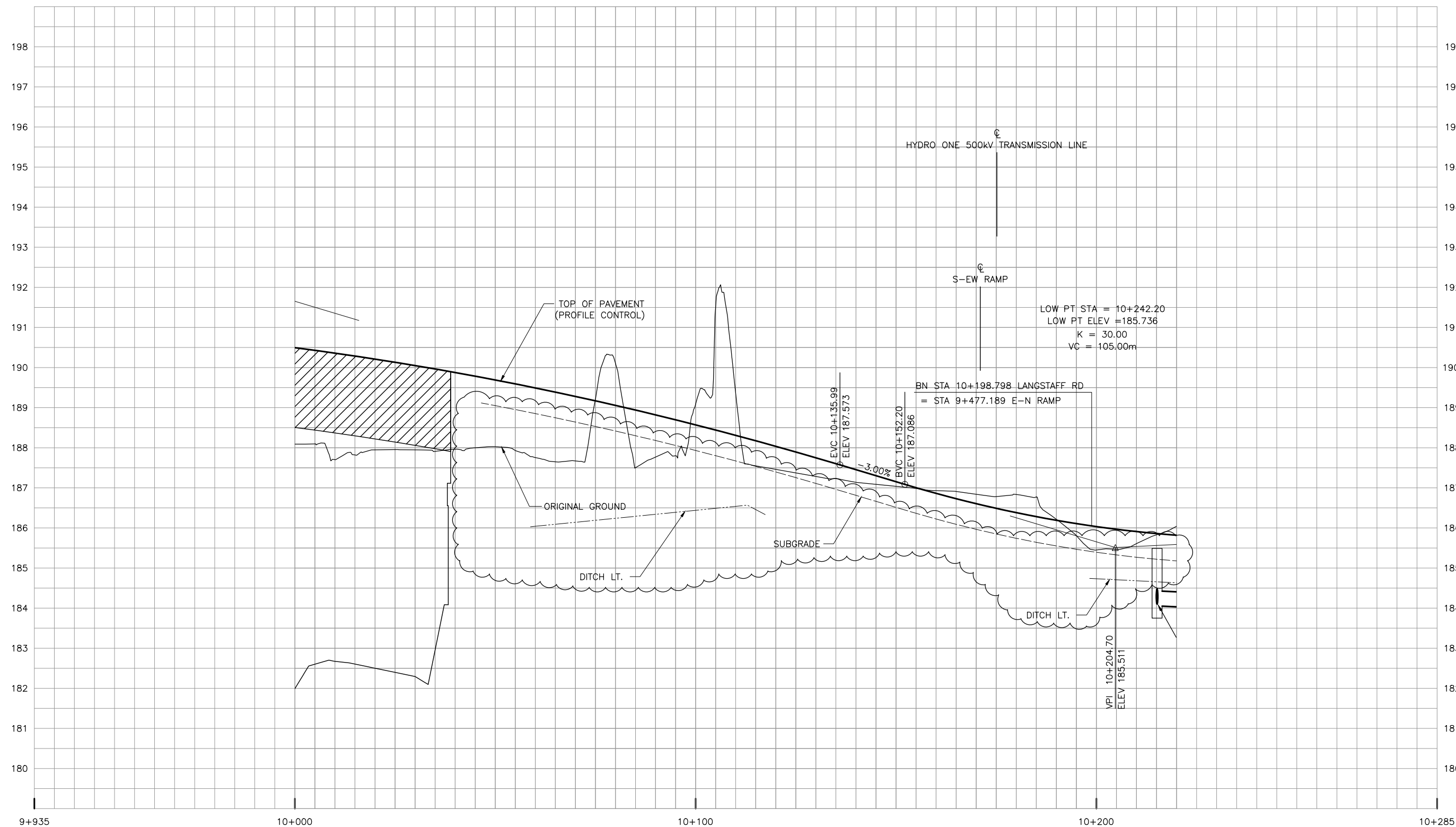


DESIGNED	SARAH ROBERTS	
DRAWN	SARAH ROBERTS	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENG.	JONATHAN MOHACSI	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)		
INIT.		
DATE		

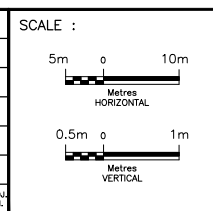


HWY 427 EXPANSION							
PROFILE							
STA. 9+790 TO STA. 10+000							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0087	B

LANGSTAFF ROAD WESTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

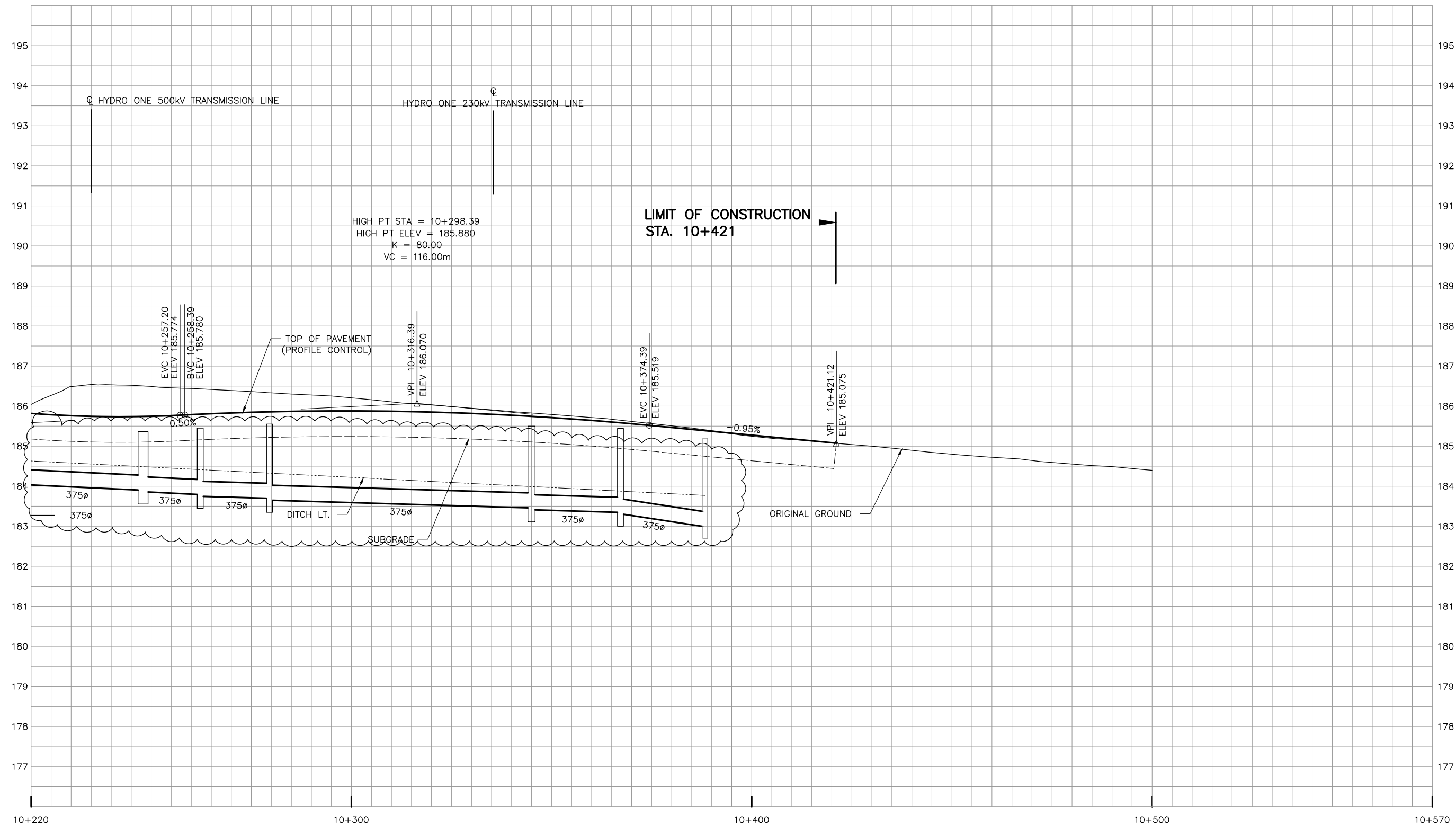


DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
		DATE	

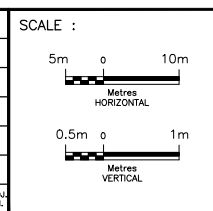


HWY 427 EXPANSION							
PROFILE							
STA. 10+000 TO STA. 10+220							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0088	B

LANGSTAFF ROAD WESTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

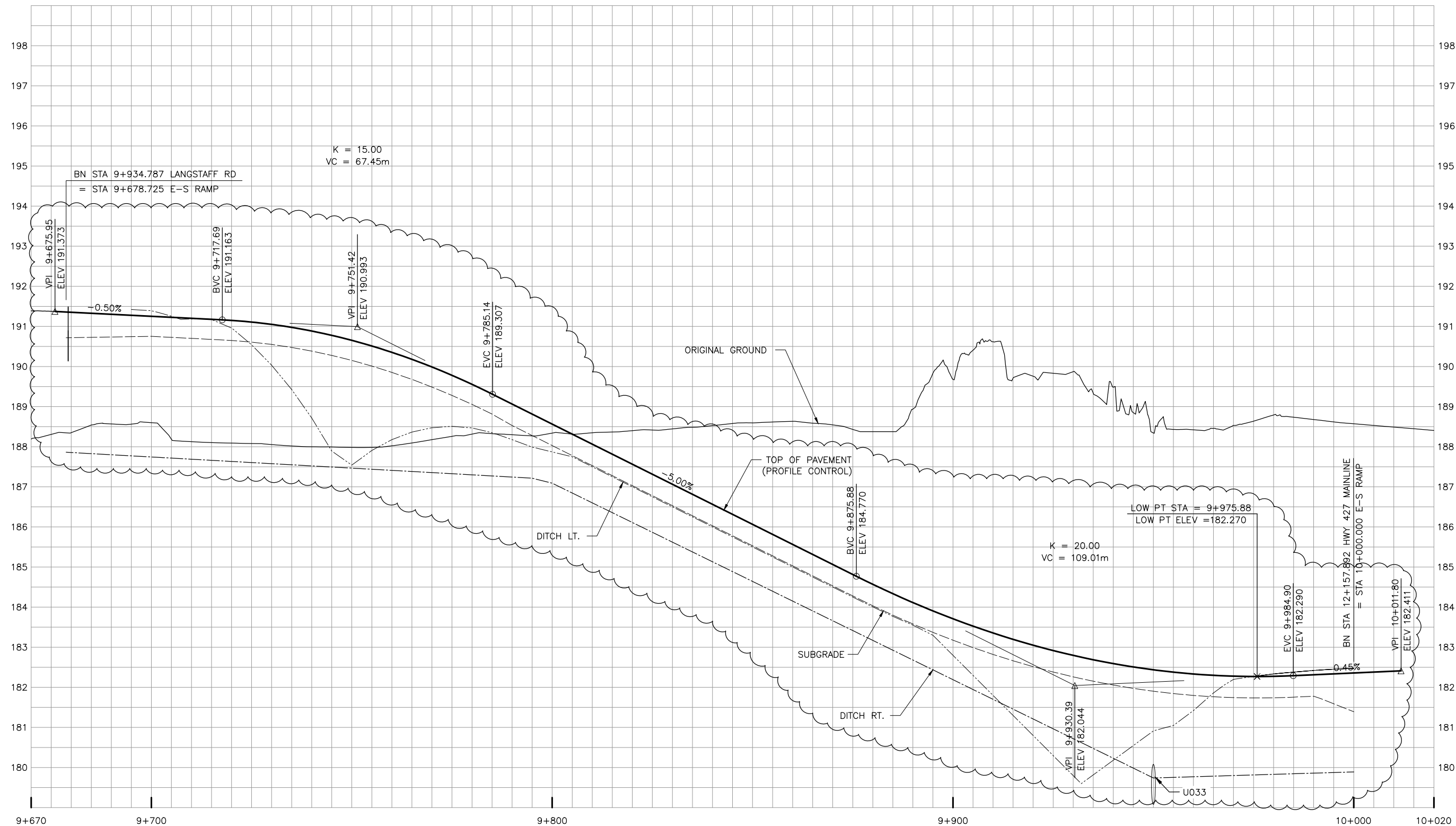


DESIGNED	SARAH ROBERTS	
DRAWN	SARAH ROBERTS	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENGR.	JONATHAN MOHACSI	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

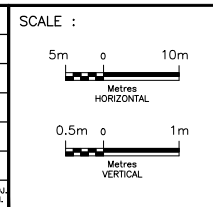


HWY 427 EXPANSION							
PROFILE STA. 10+220 TO STA. 10+421							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0089	B

LANGSTAFF E-S RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

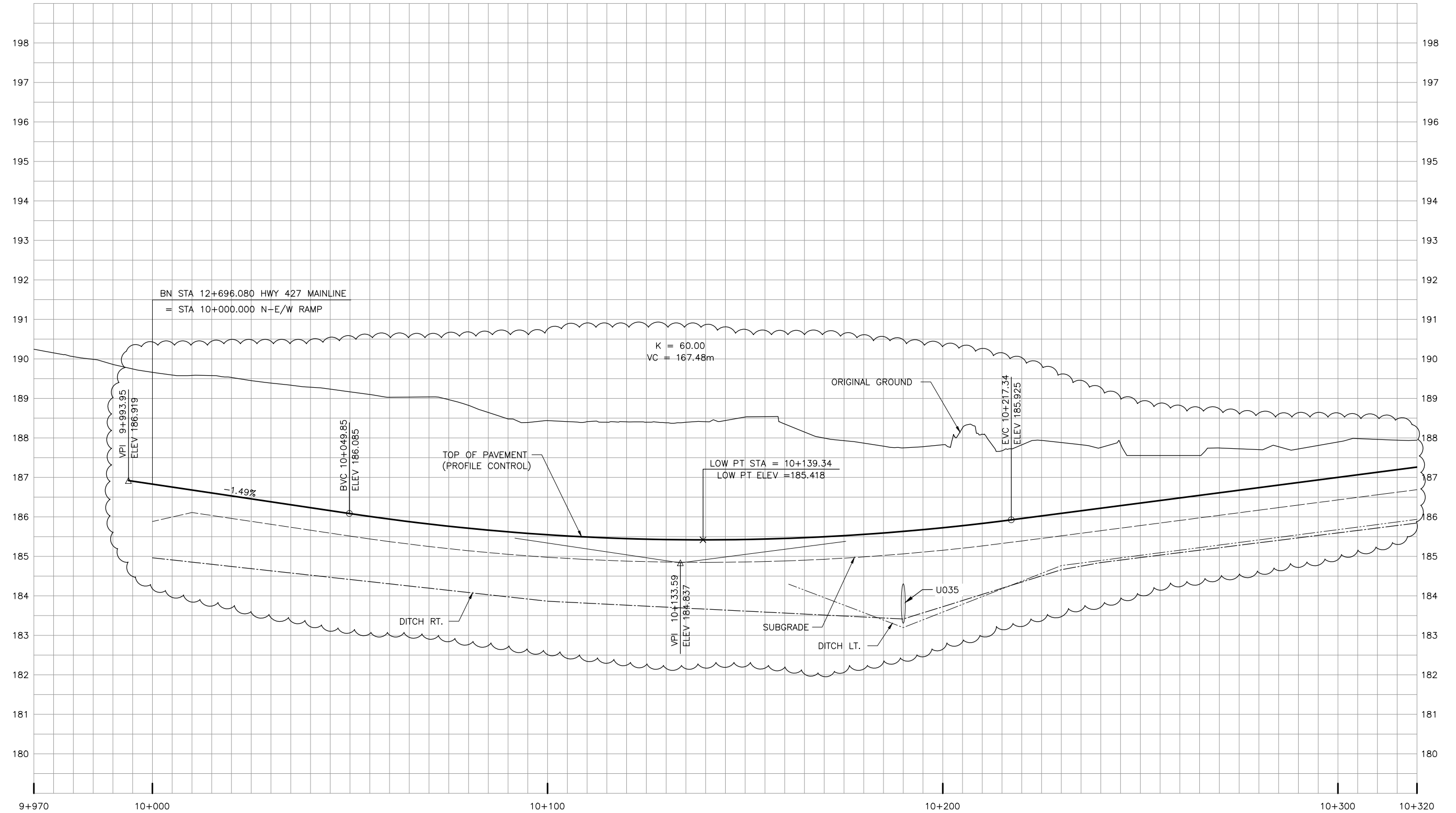


DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
		DATE	

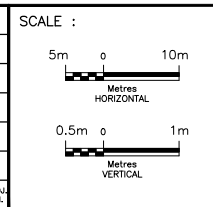


HWY 427 EXPANSION							
PROFILE STA. 9+670 TO STA. 10+020							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0090	B

LANGSTAFF N-E/W RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				



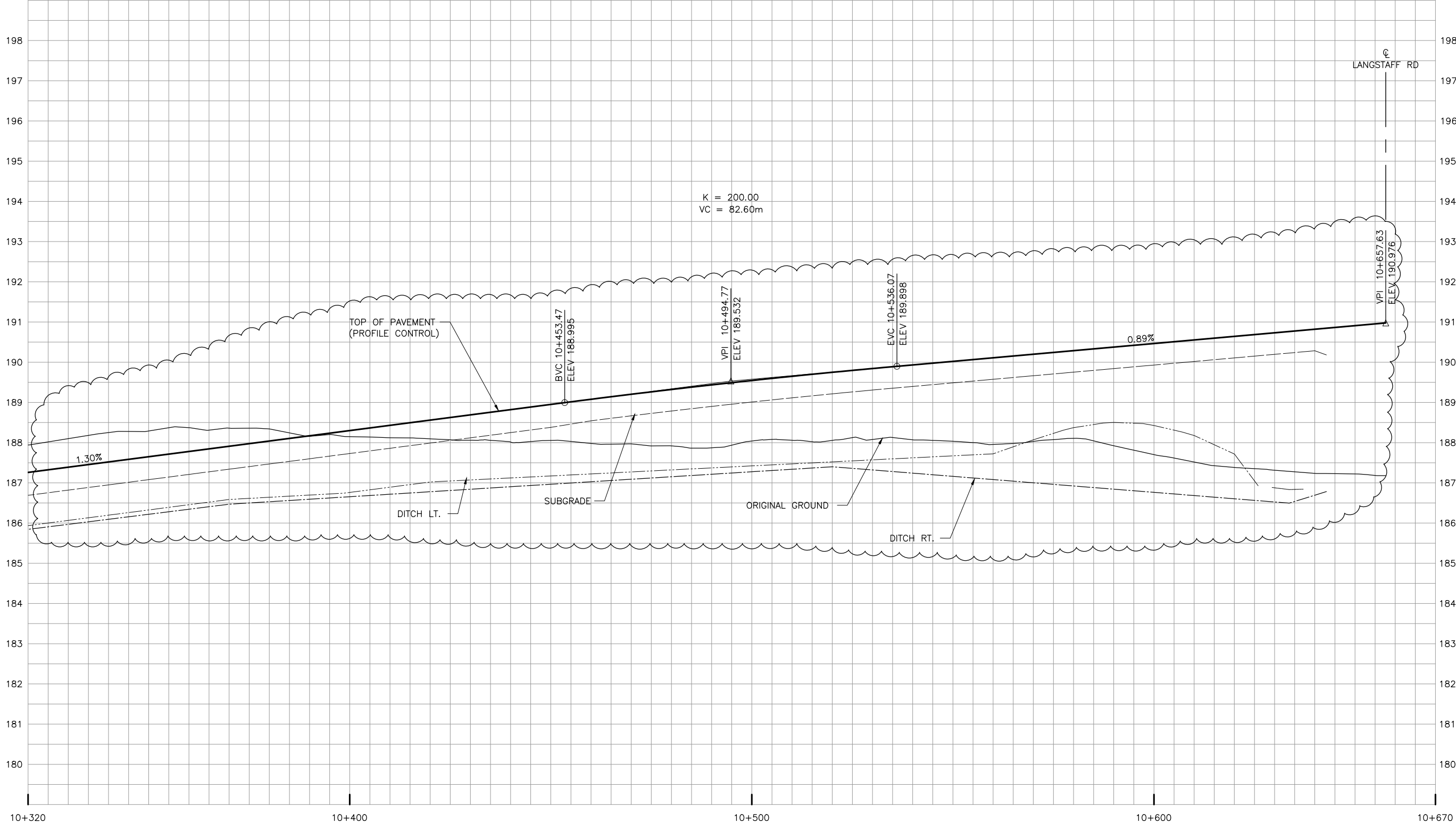
DESIGNED	SARAH ROBERTS
DRAWN	SARAH ROBERTS
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MGR.	PETER BAMFORTH
NAME (PRINT)	
INIT.	
DATE	

CONSULTANT	
DESIGNED	SARAH ROBERTS
DRAWN	SARAH ROBERTS
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MGR.	PETER BAMFORTH
NAME (PRINT)	
INIT.	
DATE	

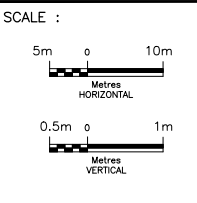


HWY 427 EXPANSION							
PROFILE							
STA. 9+970 TO STA. 10+320							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0091	B

LANGSTAFF N-E/W RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

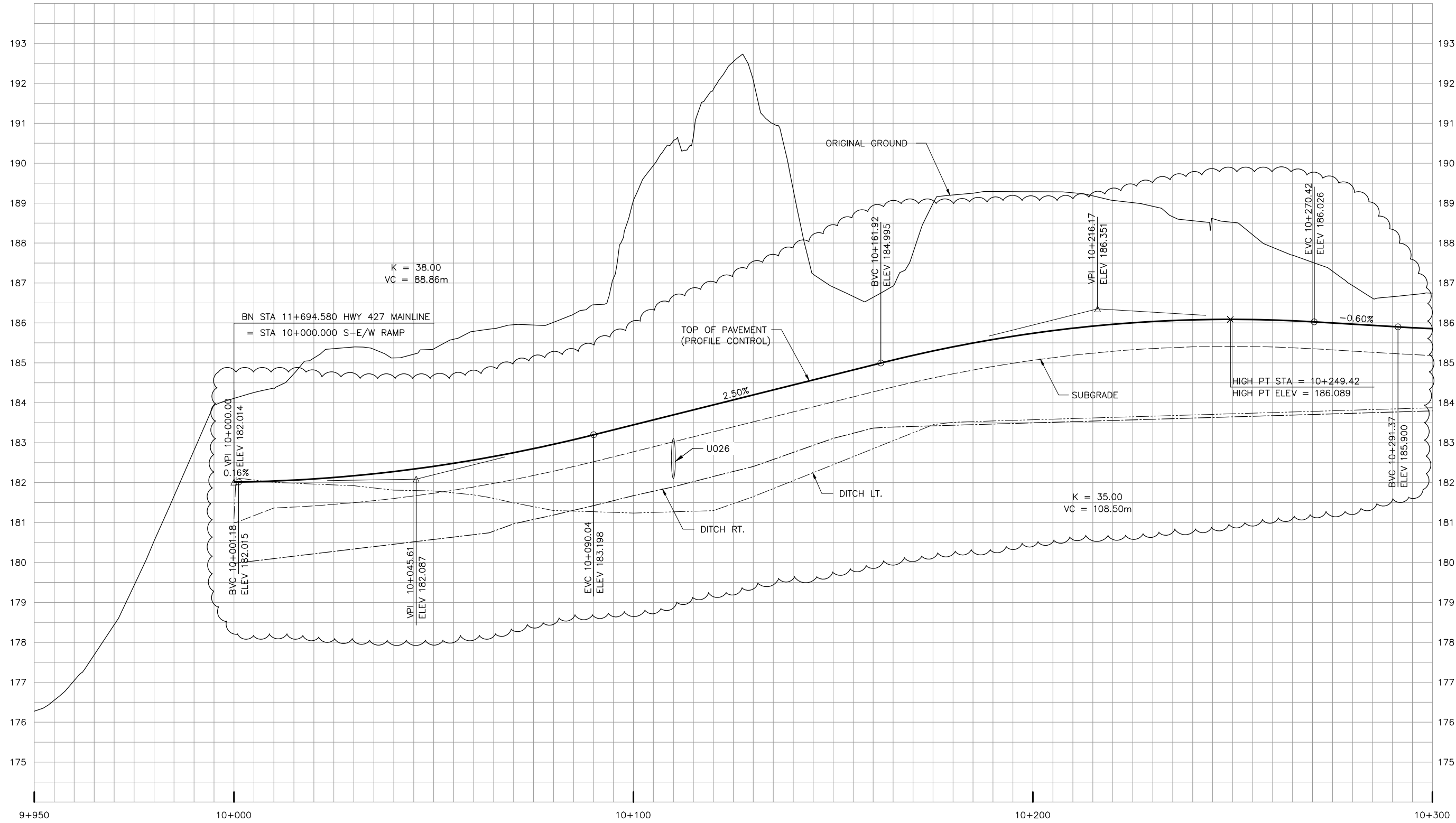


DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
CONSULTANT			
NAME (PRINT)		INIT.	DATE

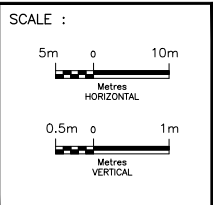


HWY 427 EXPANSION							
PROFILE STA. 10+320 TO STA. 10+670							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0092	B

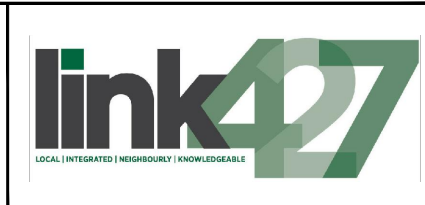
LANGSTAFF S-E/W RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
					DISC.	MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

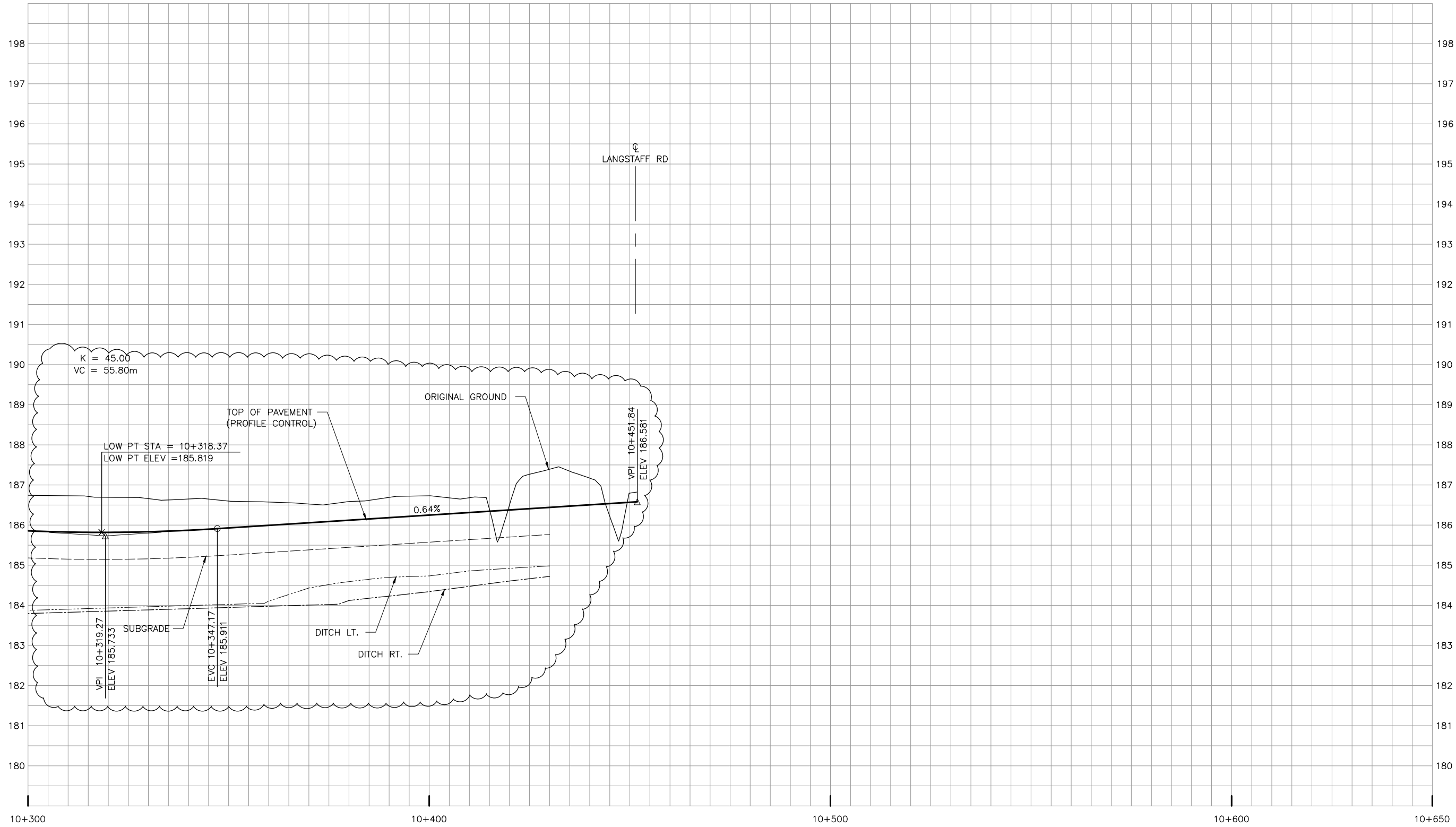


DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
	NAME (PRINT)	INIT.	DATE

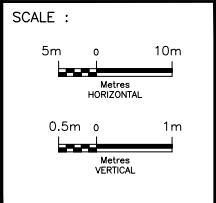


HWY 427 EXPANSION							
PROFILE STA. 9+950 TO STA. 10+300							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0093	B

LANGSTAFF S-E/W RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

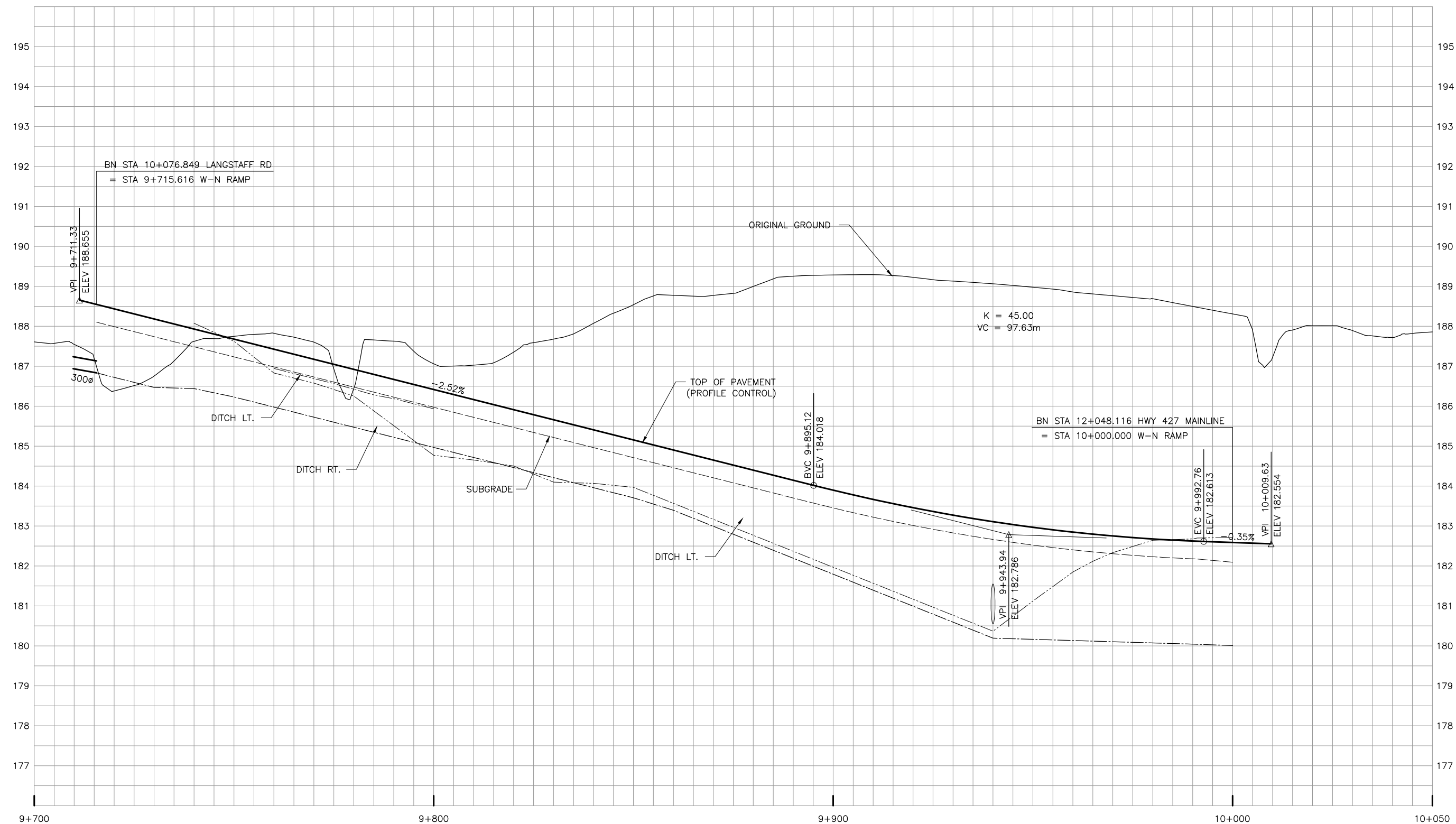


DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MGR.	PETER BAMFORTH		
		NAME (PRINT)	INIT. DATE

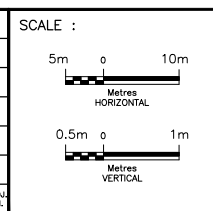


HWY 427 EXPANSION							
PROFILE STA. 10+300 TO STA. 10+650							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0094	B

LANGSTAFF W-N RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				



DESIGNED	SARAH ROBERTS	
DRAWN	SARAH ROBERTS	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENG.	JONATHAN MOHACSI	
APPROVED PROJ. MANAGER	PETER BAMFORTH	

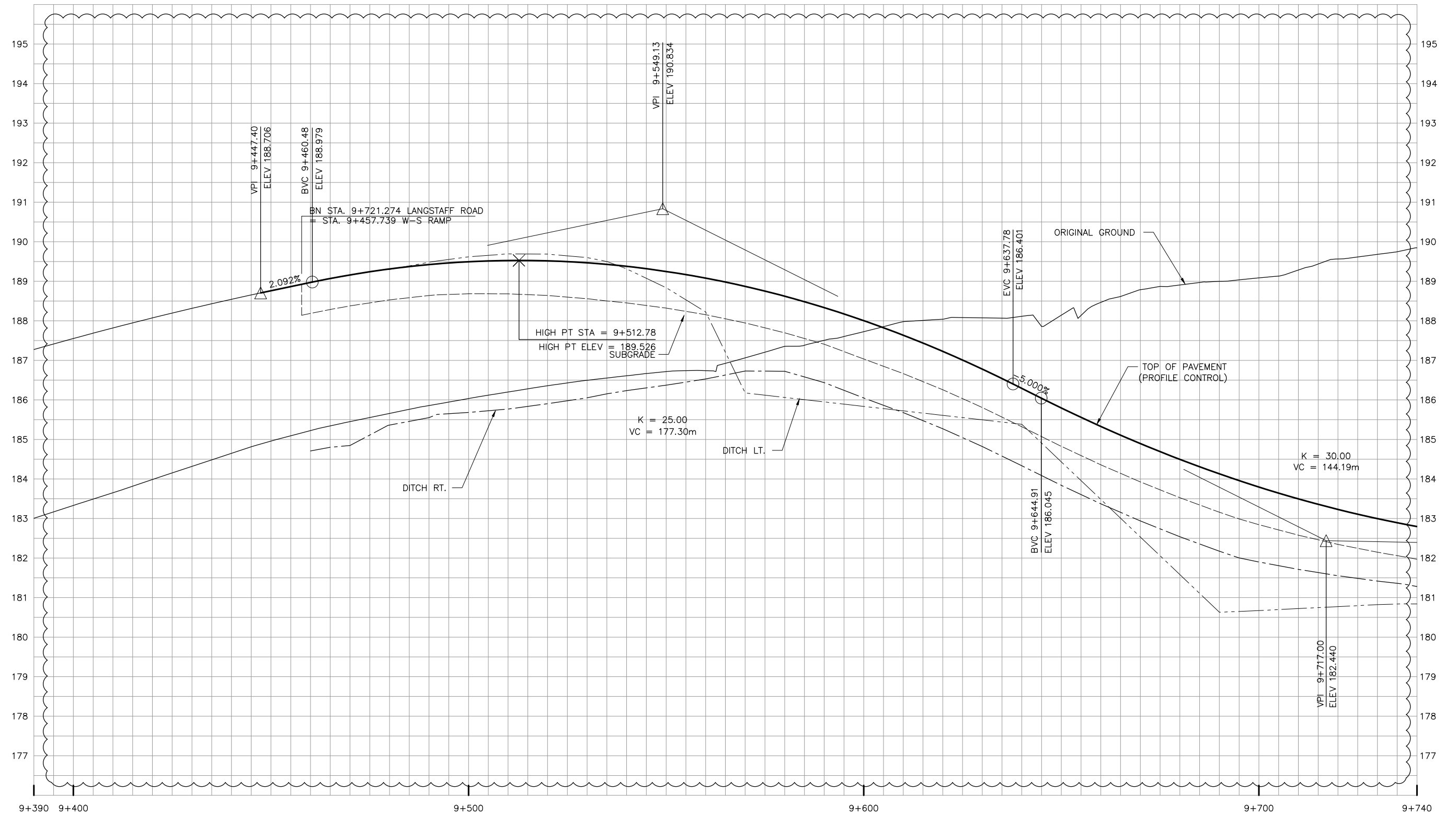
CONSULTANT	
NAME (PRINT)	
INIT.	
DATE	



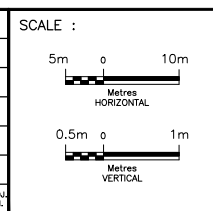
HWY 427 EXPANSION
PROFILE
STA. 9+700 TO STA. 10+050

PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0095	B

LANGSTAFF W-S RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				



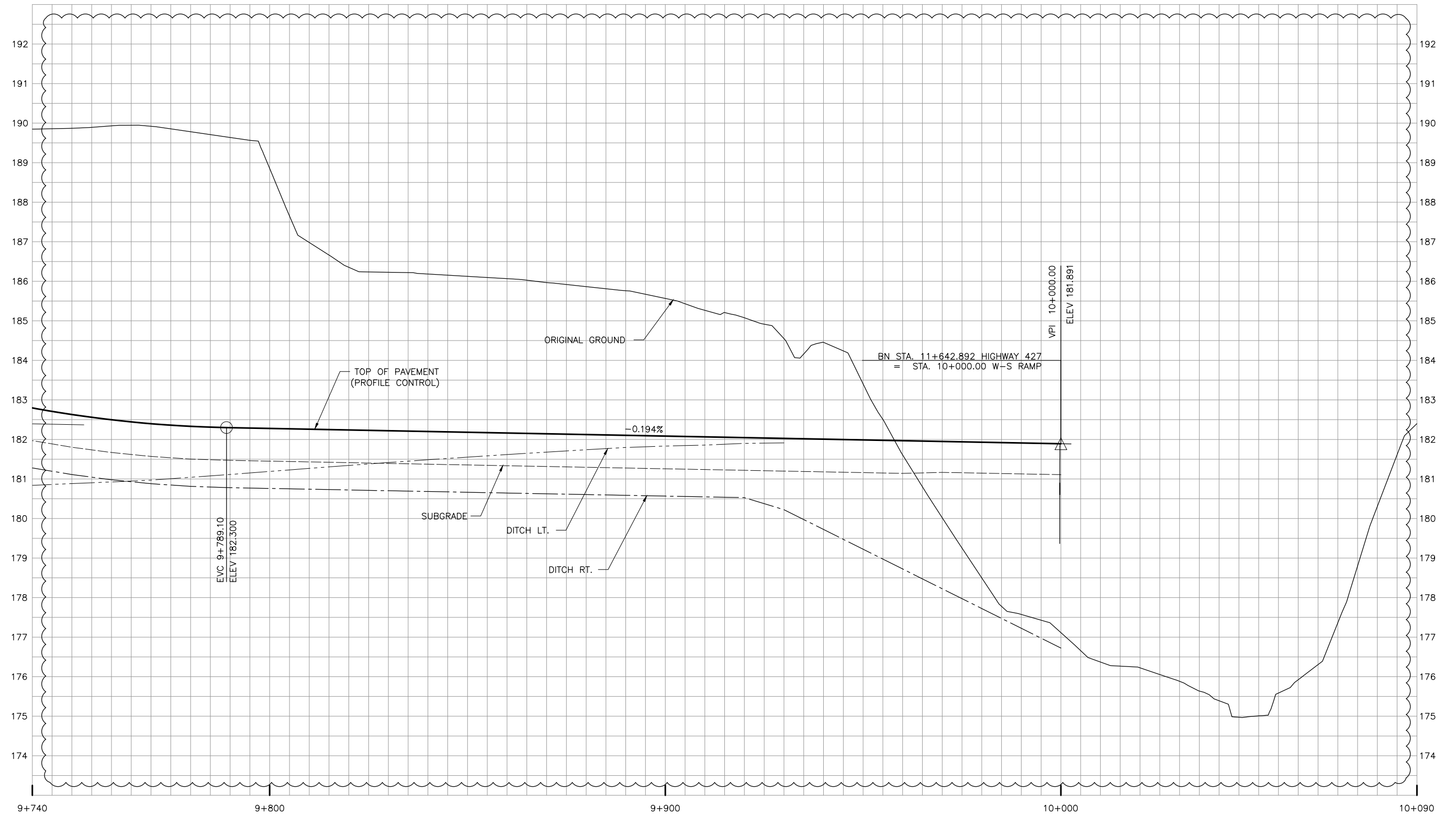
DESIGNED	SARAH ROBERTS	
DRAWN	SARAH ROBERTS	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENG.	JONATHAN MOHACSI	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

CONSULTANT		
DESIGNED	SARAH ROBERTS	
DRAWN	SARAH ROBERTS	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENG.	JONATHAN MOHACSI	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

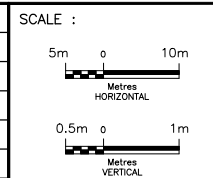


HWY 427 EXPANSION							
PROFILE STA. 9+390 TO STA. 9+740							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0096	B

LANGSTAFF W-S RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

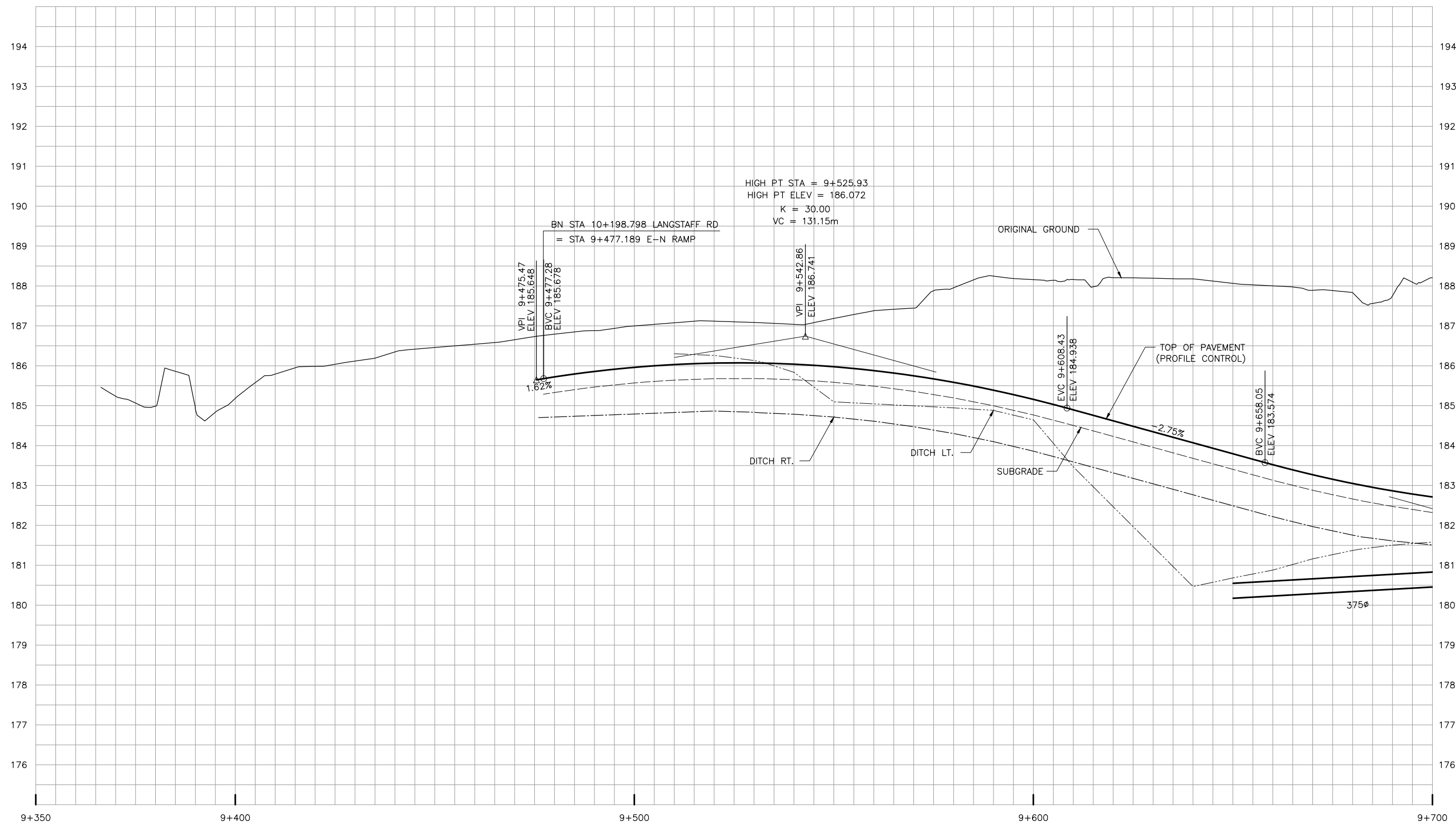


DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
		NAME (PRINT)	INIT. DATE

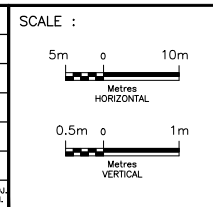


HWY 427 EXPANSION							
PROFILE							
STA. 9+740 TO STA. 10+090							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0097	B

LANGSTAFF E-N RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

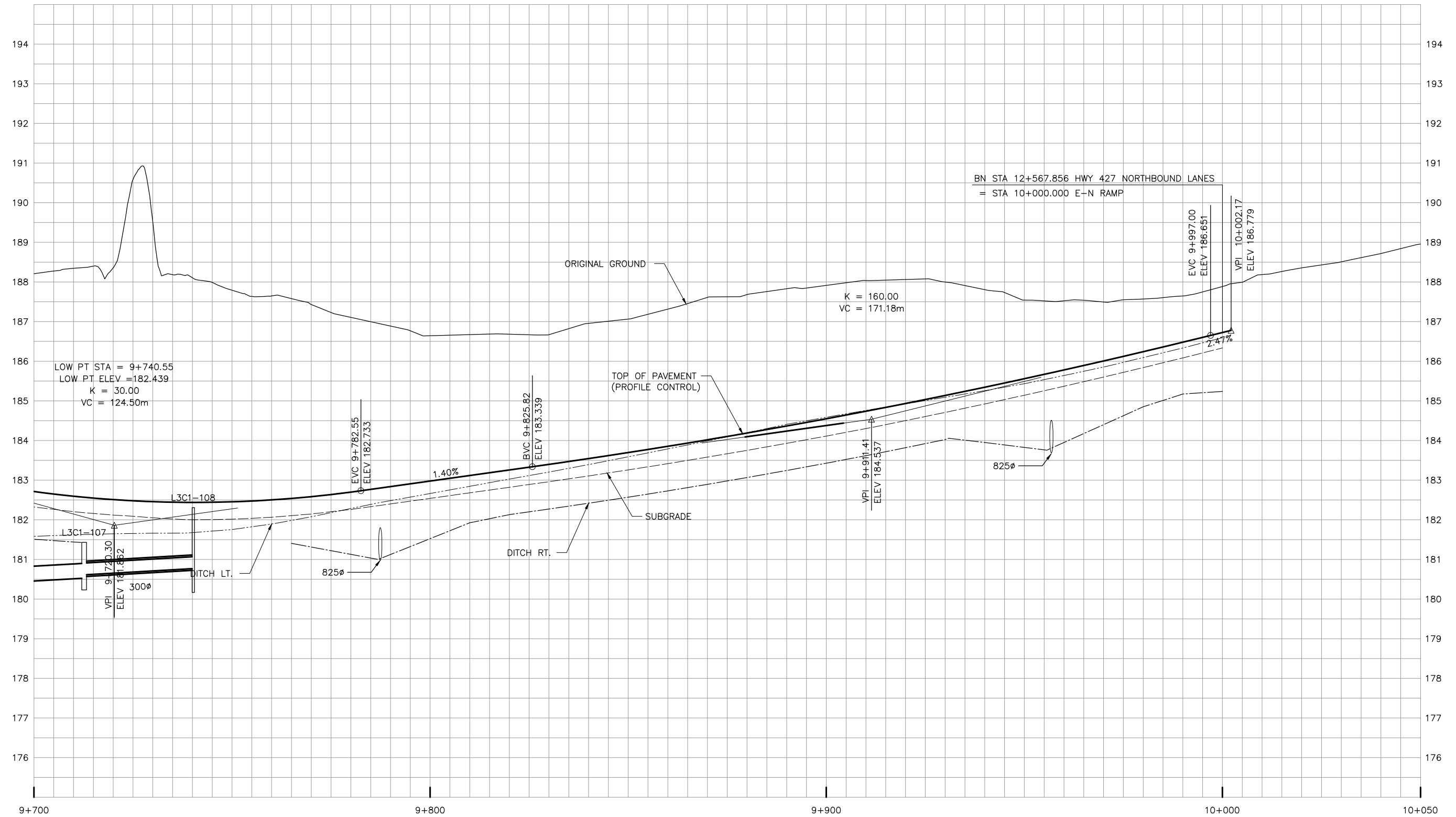


DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
		DATE	



HWY 427 EXPANSION							
PROFILE							
STA. 9+350 TO STA. 9+700							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0098	B

LANGSTAFF E-N RAMP

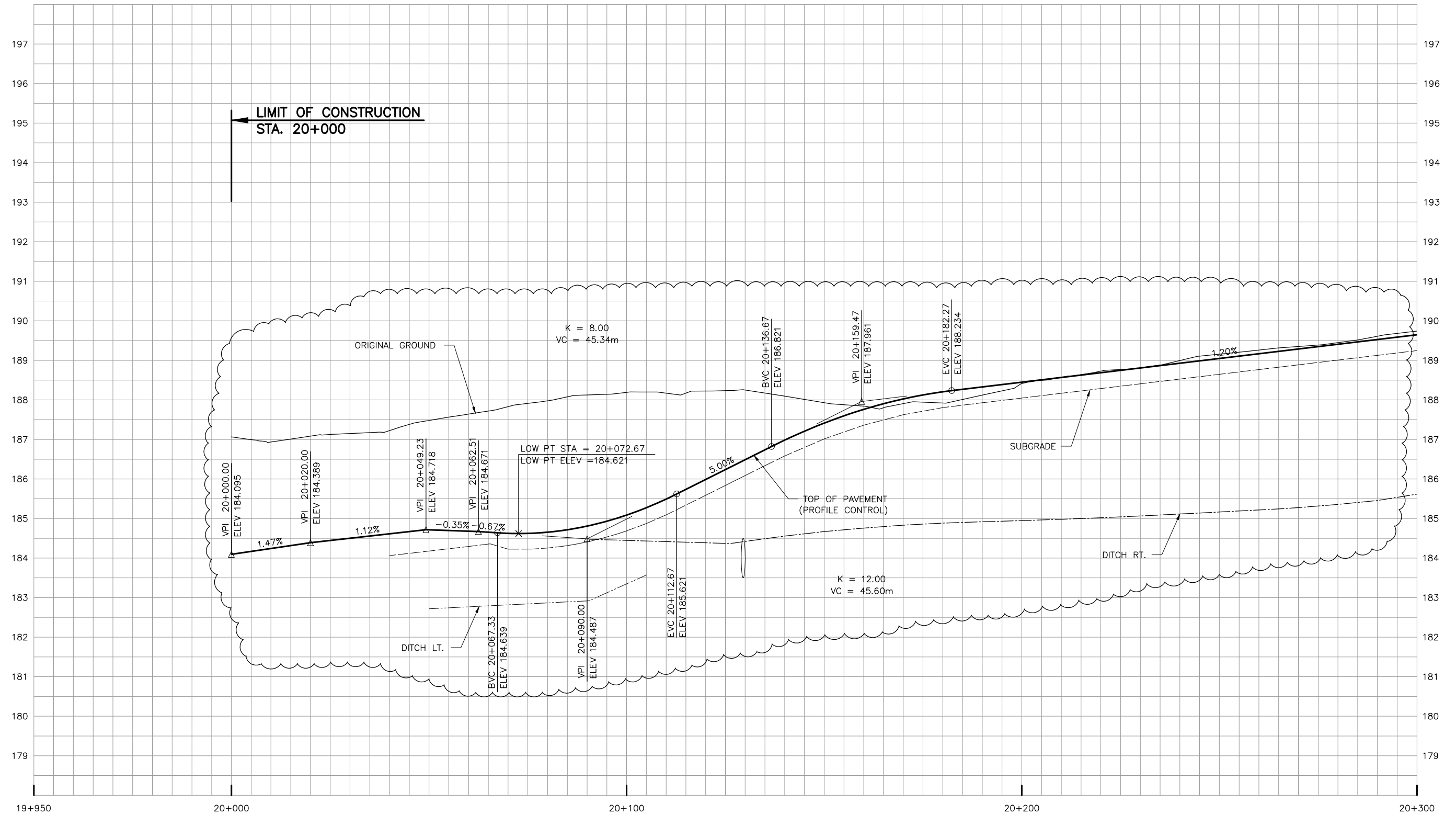


REVISIONS			BY	CHK	LEAD DISC.	PROJ. MAN.	SCALE :	DESIGNED	DRAWN	CHECKED	APPROVED LEAD ENG.	APPROVED PROJ. MGR.	NAME (PRINT)	INIT.	DATE	HWY 427 EXPANSION							
NO.	DATE	DESCRIPTION														PROJECT ID	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
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A	18/1/12	90% SUBMISSION TO CA																					

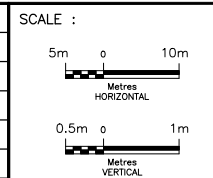


HWY 427 EXPANSION											
PROFILE STA. 9+750 TO STA. 10+100											
PROJECT ID	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER				
H427-D	N	1	HWY	000	DWG	0099	B				

HYDRO ACCESS ROAD



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
					DISC.	MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				



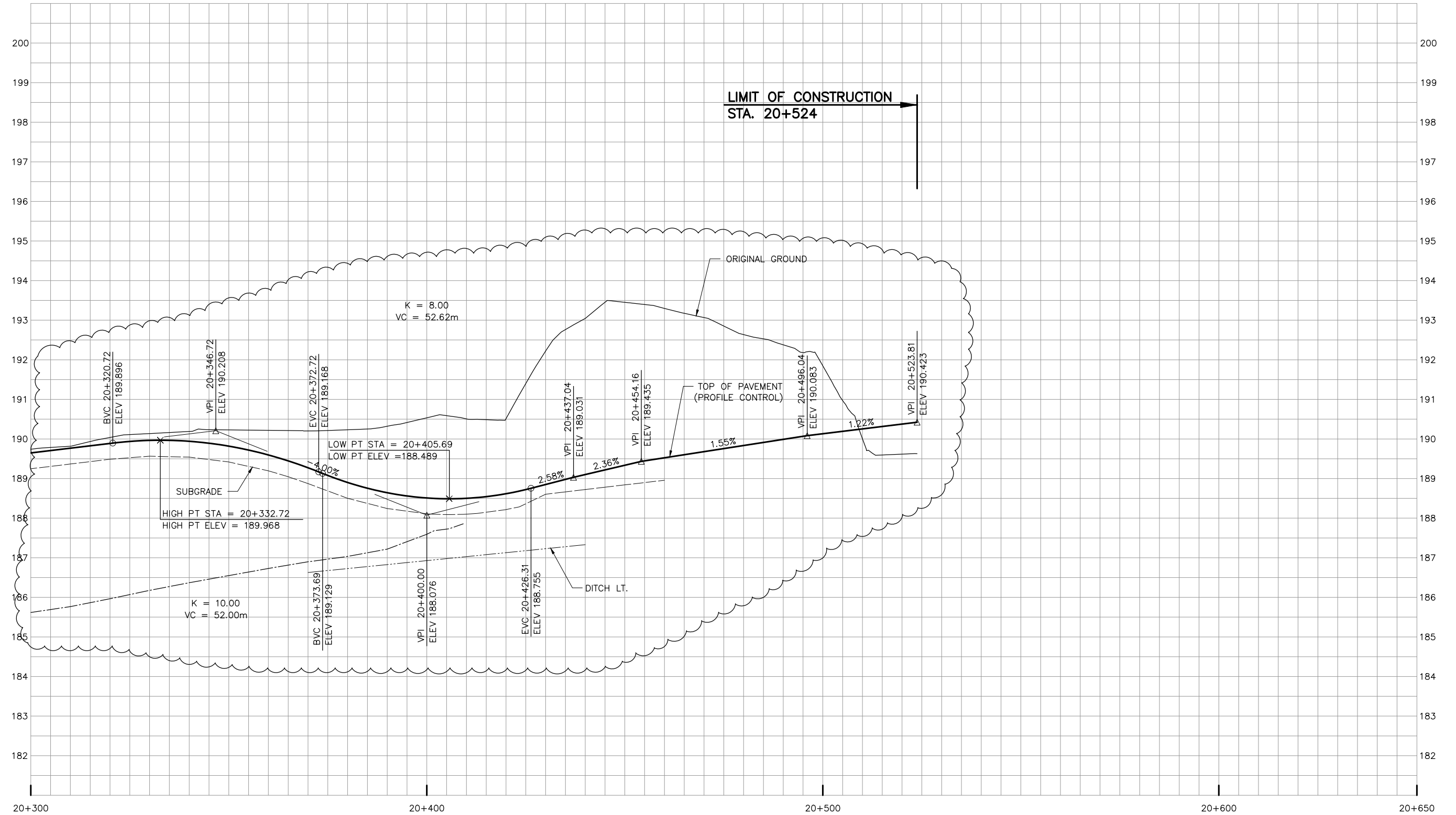
DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
		NAME (PRINT)	INIT. DATE



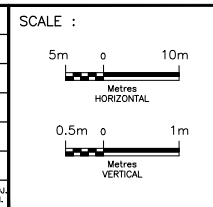
HWY 427 EXPANSION
PROFILE
STA. 20+000 TO STA. 20+300

PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0100	B

HYDRO ACCESS ROAD



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
					ENG.	MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				



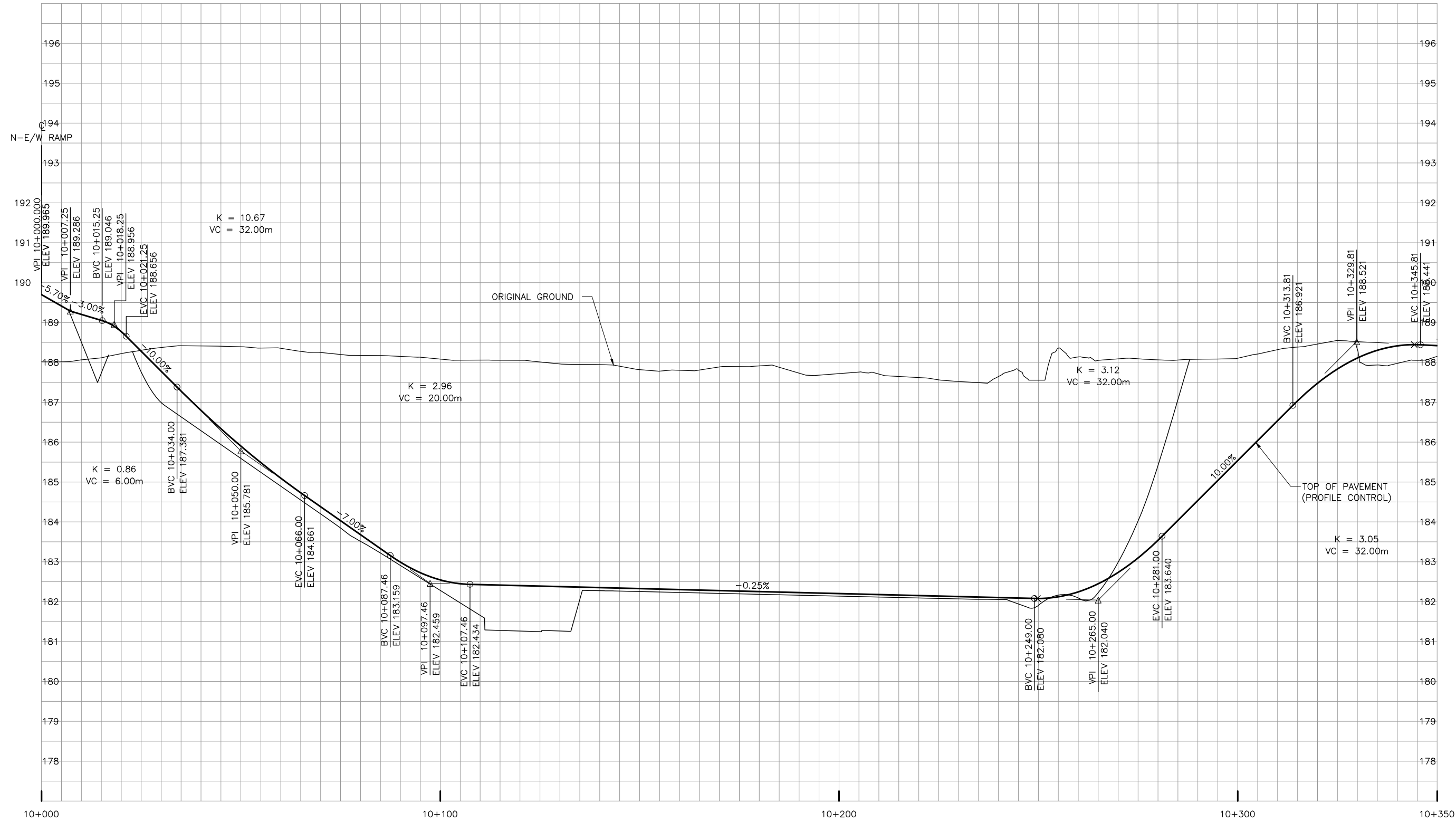
DESIGNED	SARAH ROBERTS
DRAWN	SARAH ROBERTS
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	INIT. DATE

CONSULTANT	
DESIGNED	SARAH ROBERTS
DRAWN	SARAH ROBERTS
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	INIT. DATE

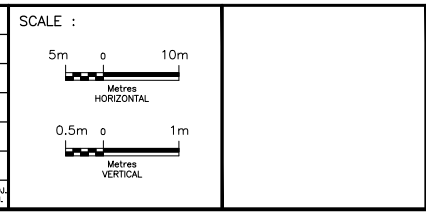


HWY 427 EXPANSION							
PROFILE STA. 20+300 TO STA. 20+524							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0101	B

ACCESS ROAD X (POND 2)



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
A	18/3/20	90% SUBMISSION TO CA				

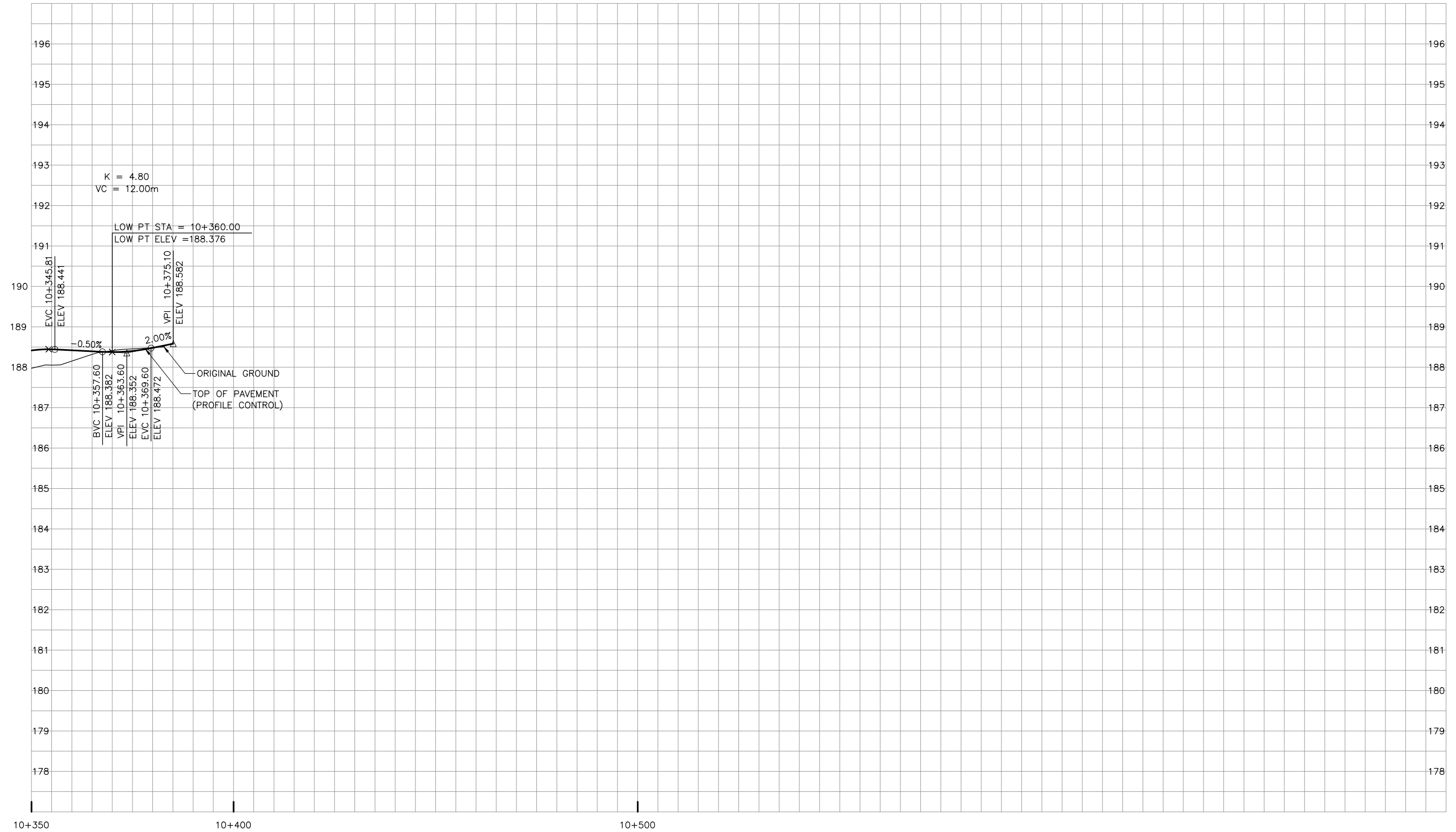


DESIGNED	SARAH ROBERTS
DRAWN	SARAH ROBERTS
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH

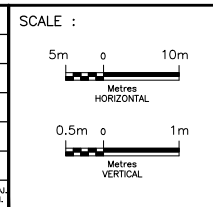


HWY 427 EXPANSION							
ACCESS ROAD PROFILE							
STA. 10+000 TO STA. 10+350							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0102	A

ACCESS ROAD X (POND 2)



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
A	18/3/20	90% SUBMISSION TO CA				



DESIGNED	SARAH ROBERTS	
DRAWN	SARAH ROBERTS	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENGR.	JONATHAN MOHACSI	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

CONSULTANT		
DESIGNED	SARAH ROBERTS	
DRAWN	SARAH ROBERTS	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENGR.	JONATHAN MOHACSI	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

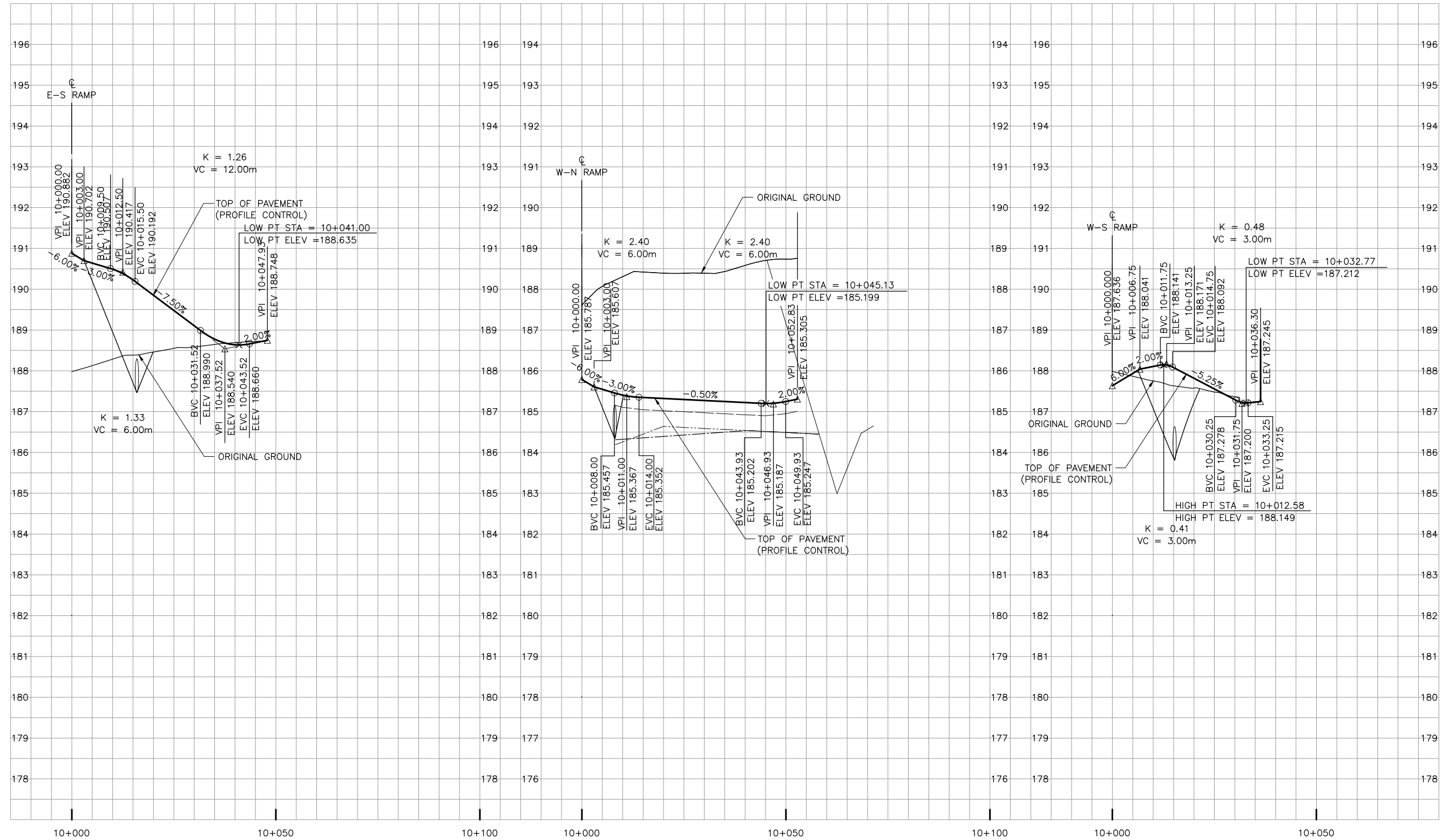


HWY 427 EXPANSION							
ACCESS ROAD PROFILE							
STA. 20+300 TO STA. 20+524							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0103	A

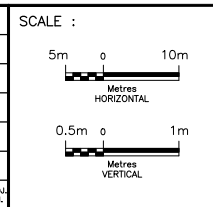
HMLP ACCESS ROAD P43

HMLP ACCESS ROAD P45

HMLP ACCESS ROAD P41



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
A	18/3/20	90% SUBMISSION TO CA				



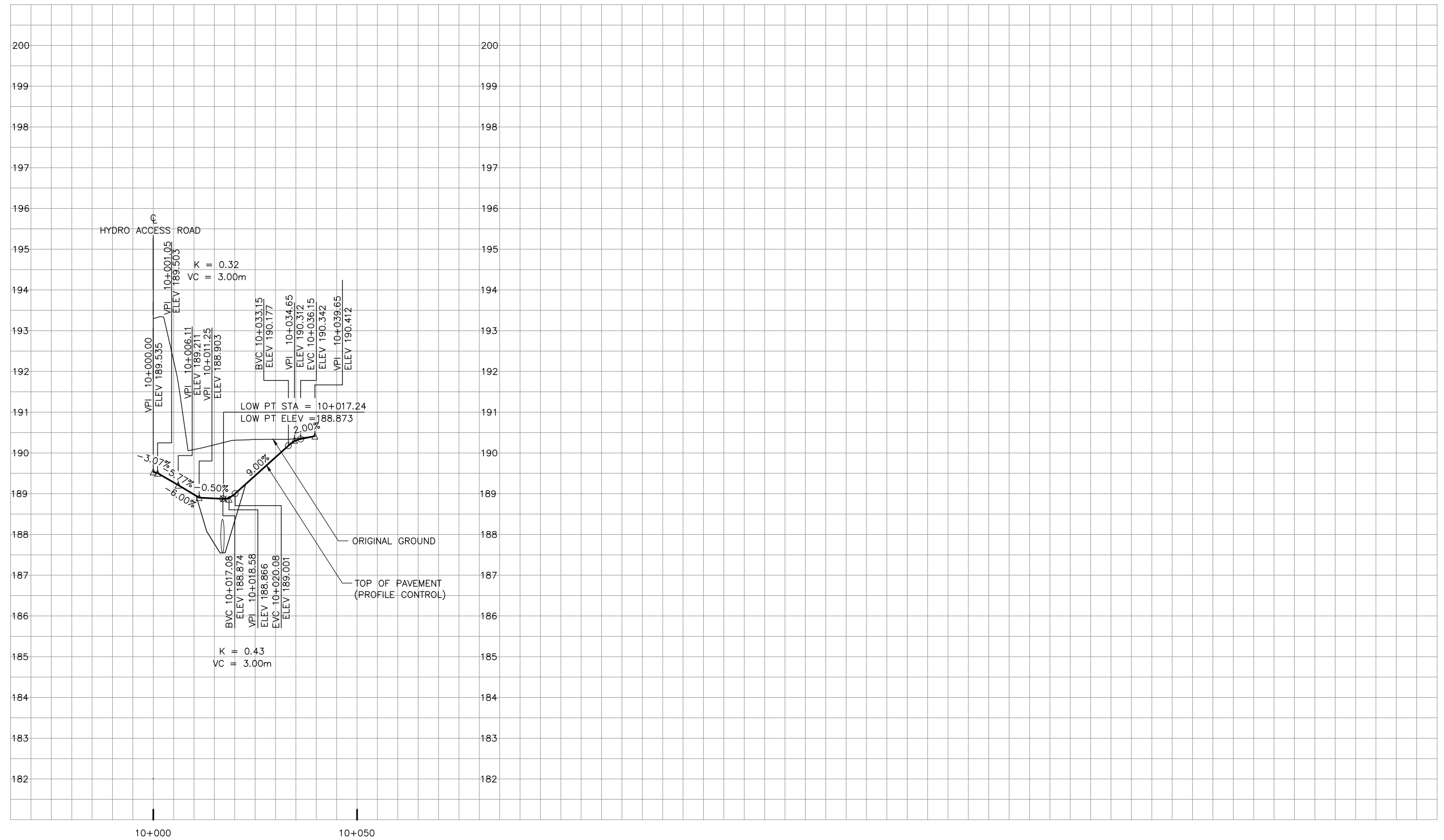
DESIGNED	SARAH ROBERTS
DRAWN	SARAH ROBERTS
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENGR.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH

NAME (PRINT)	INIT.	DATE
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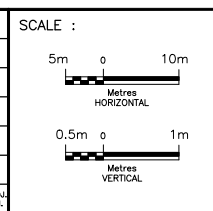


HWY 427 EXPANSION							
ACCESS ROAD PROFILE							
STA. 10+000 TO STA.10+100							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0104	A

HMLP ACCESS ROAD P114



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
A	18/3/20	90% SUBMISSION TO CA				



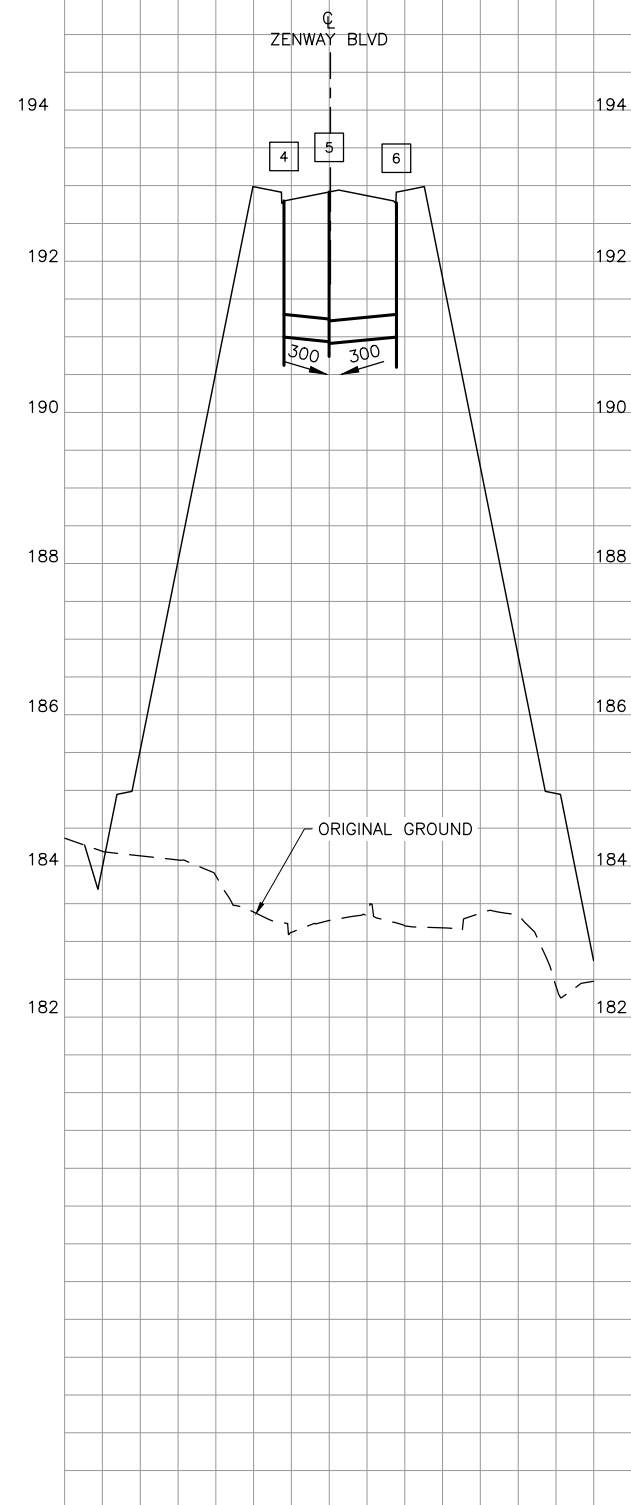
DESIGNED	SARAH ROBERTS
DRAWN	SARAH ROBERTS
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	INIT. DATE

CONSULTANT	
DESIGNED	SARAH ROBERTS
DRAWN	SARAH ROBERTS
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	INIT. DATE

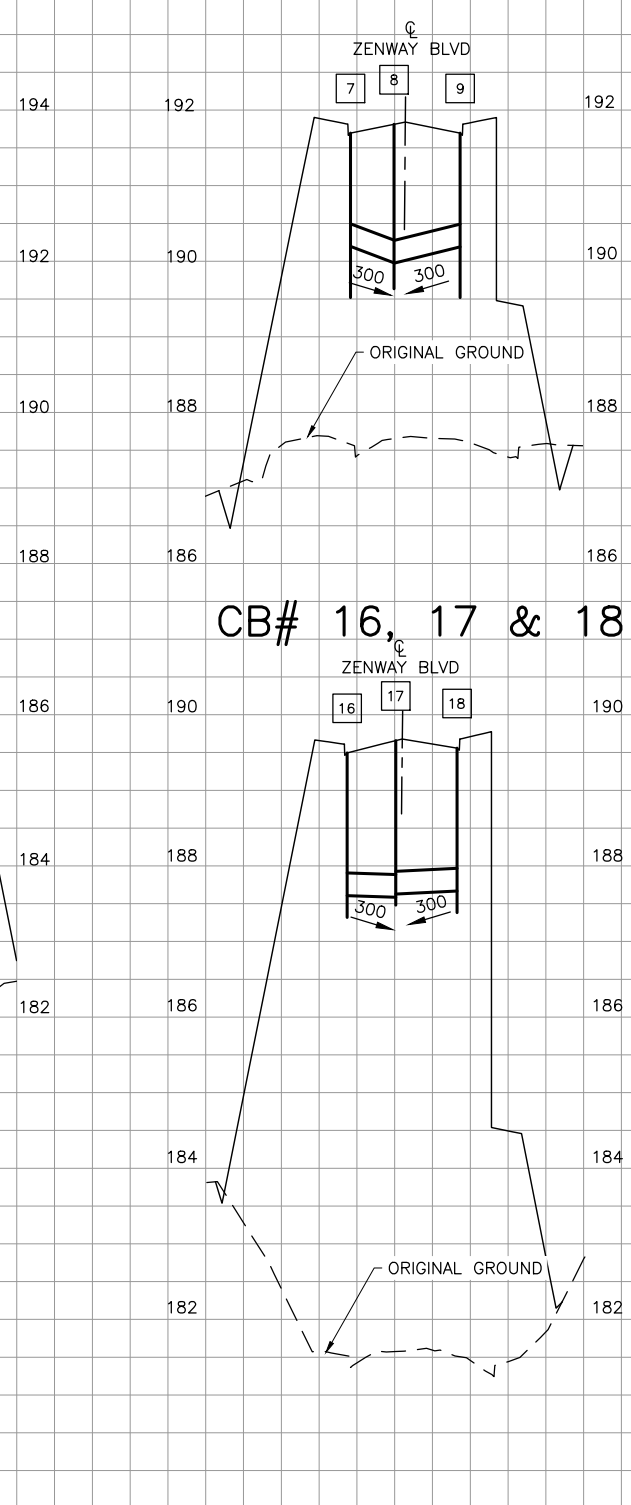


HWY 427 EXPANSION							
ACCESS ROAD PROFILE							
STA. 10+000 TO STA.10+050							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0105	A

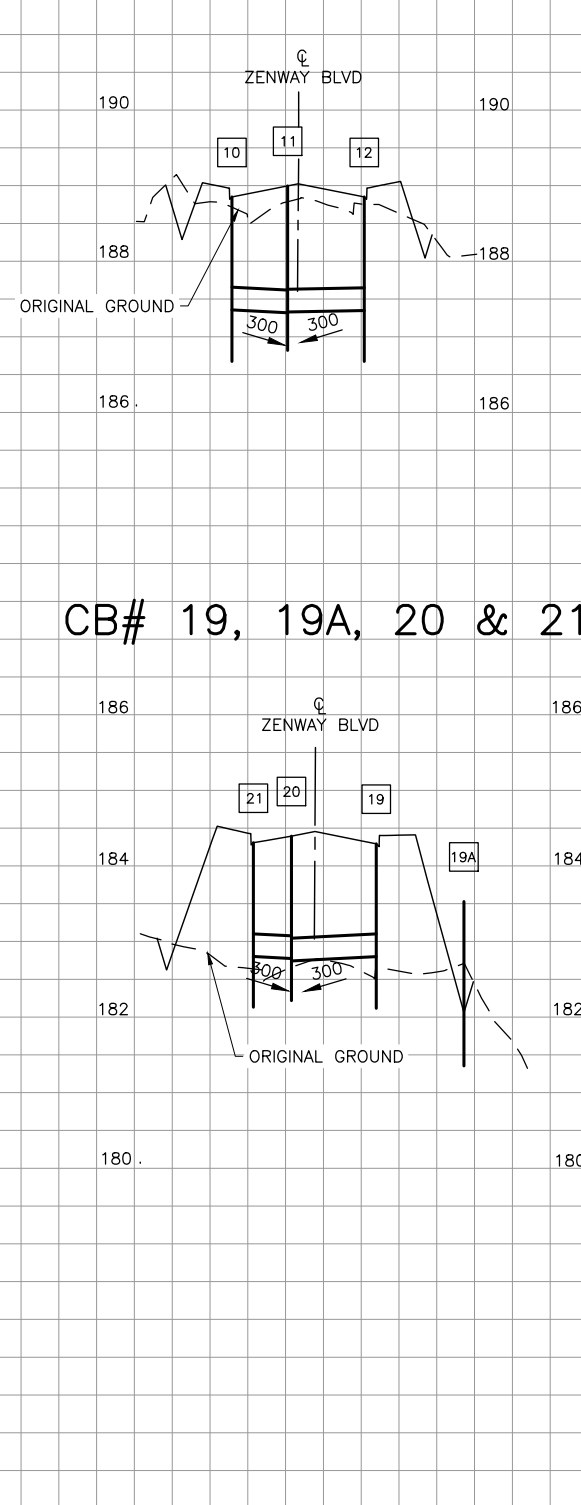
CB# 4, 5 & 6



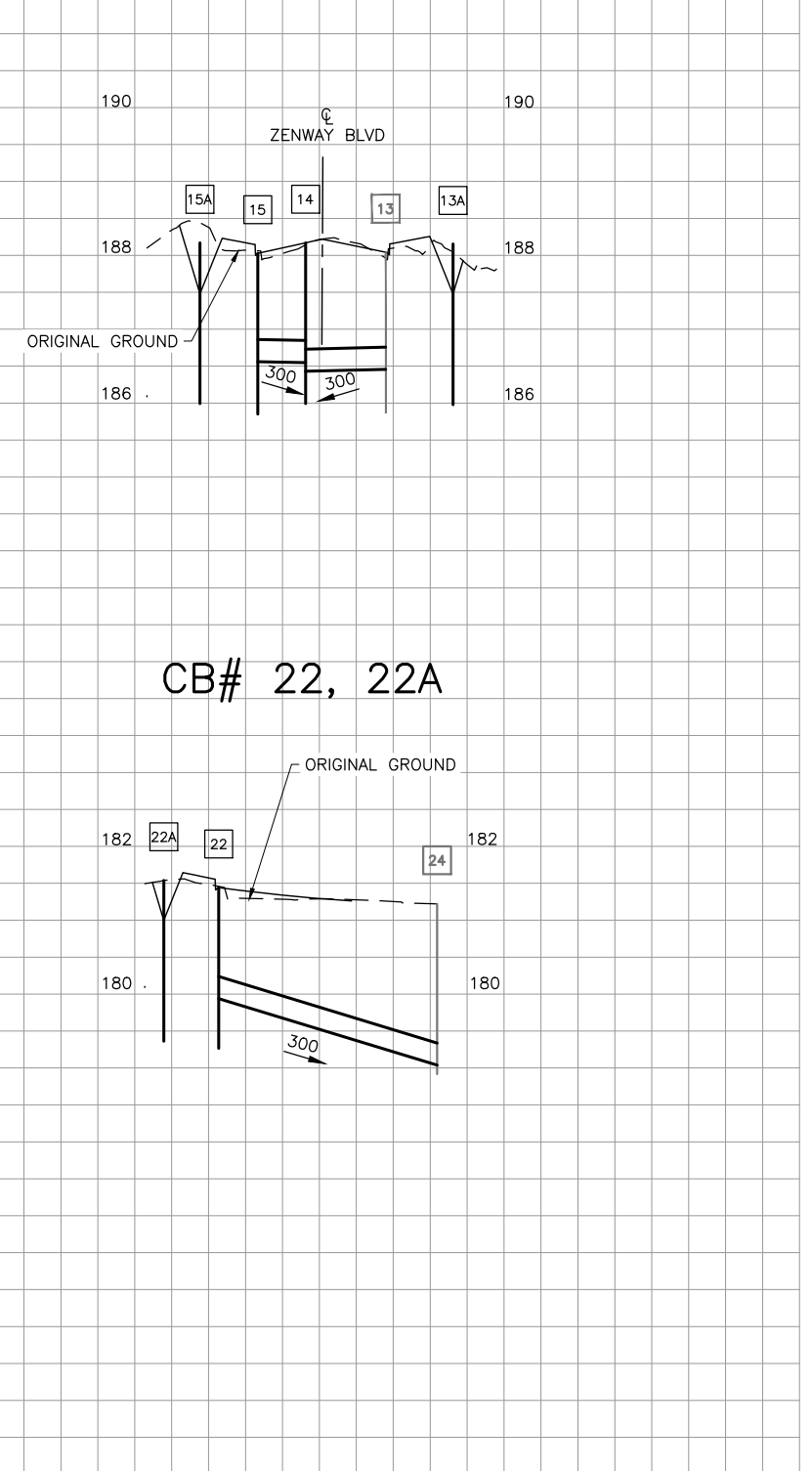
CB# 7, 8 & 9



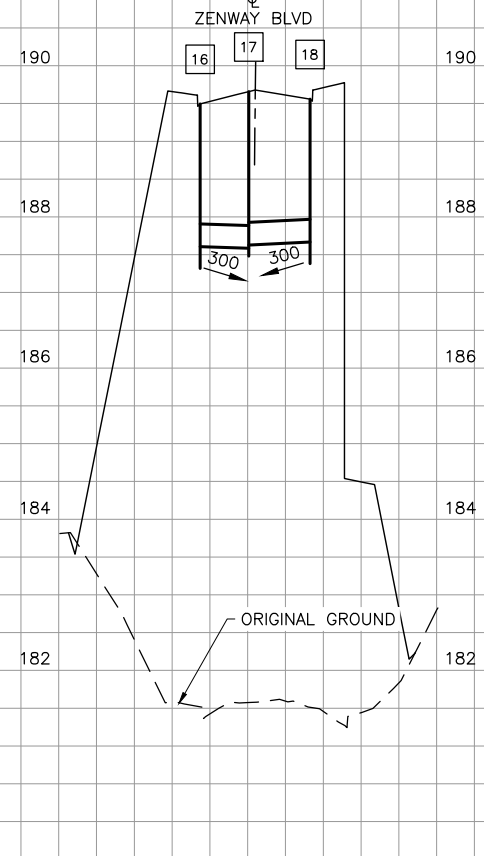
CB# 10, 11 & 12



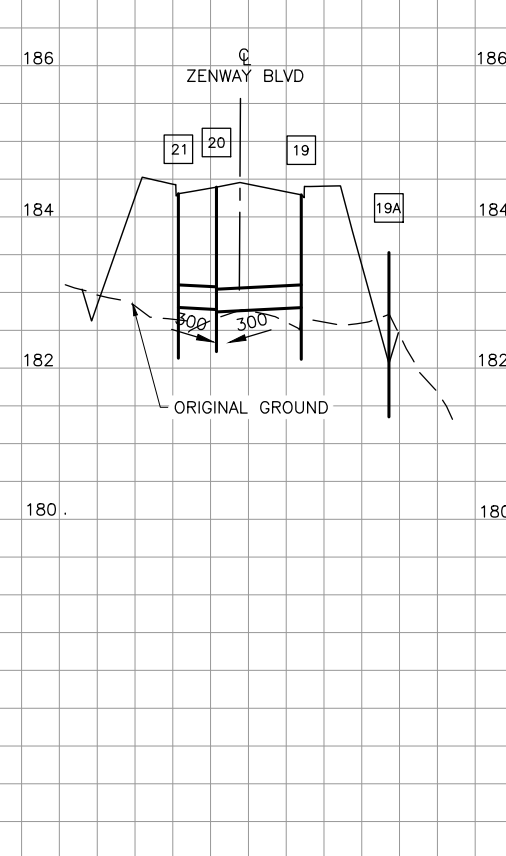
CB# 13, 13A, 14, 15 & 15A



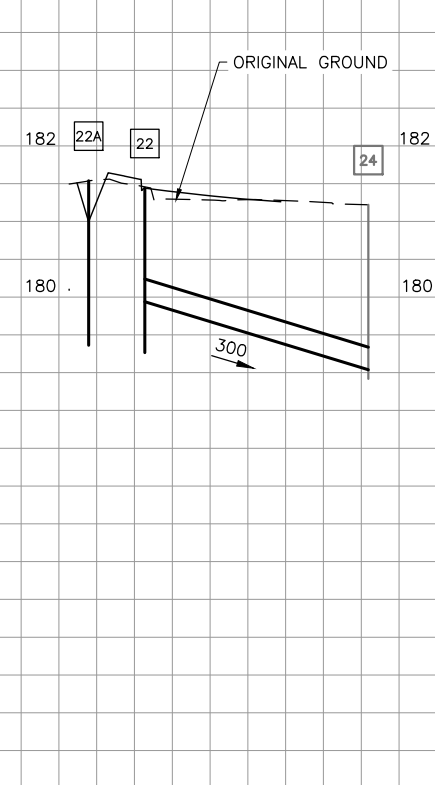
CB# 16, 17 & 18



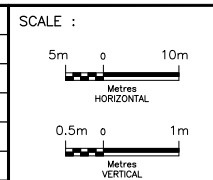
CB# 19, 19A, 20 & 21



CB# 22, 22A



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
B	18/3/16	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

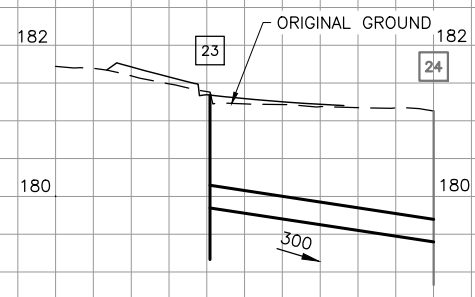


DESIGNED	PATRICK LECLERC
DRAWN	DAVID SANOSA
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	PATRICK LECLERC
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	
INIT.	
DATE	

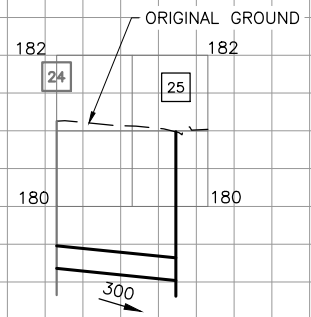


HWY 427 EXPANSION							
ZENWAY BLVD SEWER PROFILES							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0106	B

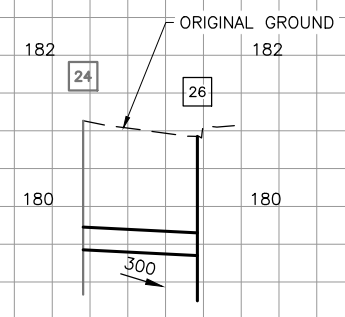
ZENWAY
CB# 23



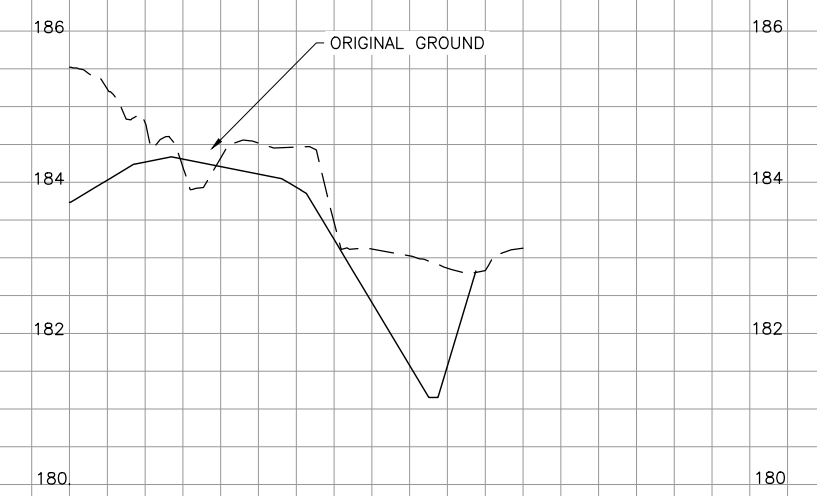
ZENWAY
CB# 25



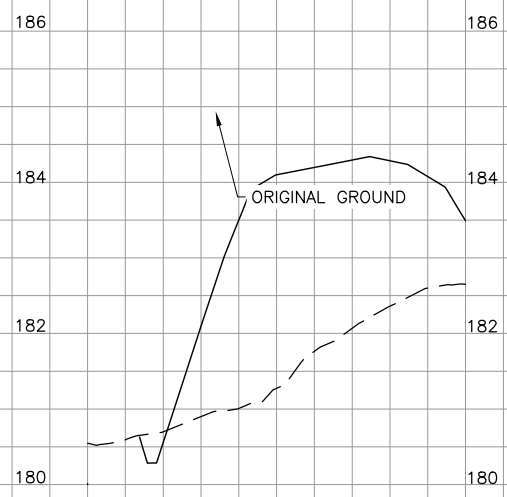
ZENWAY
CB# 26



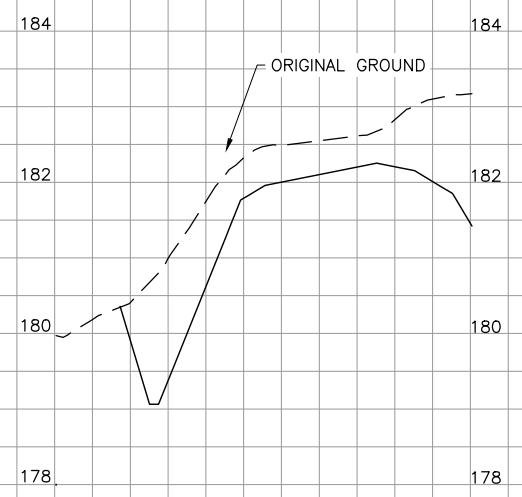
HWY 427
CB# 142



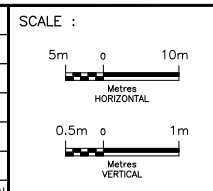
HWY 427
CB# 24



HWY 427
CB# 25



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
B	18/3/16	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

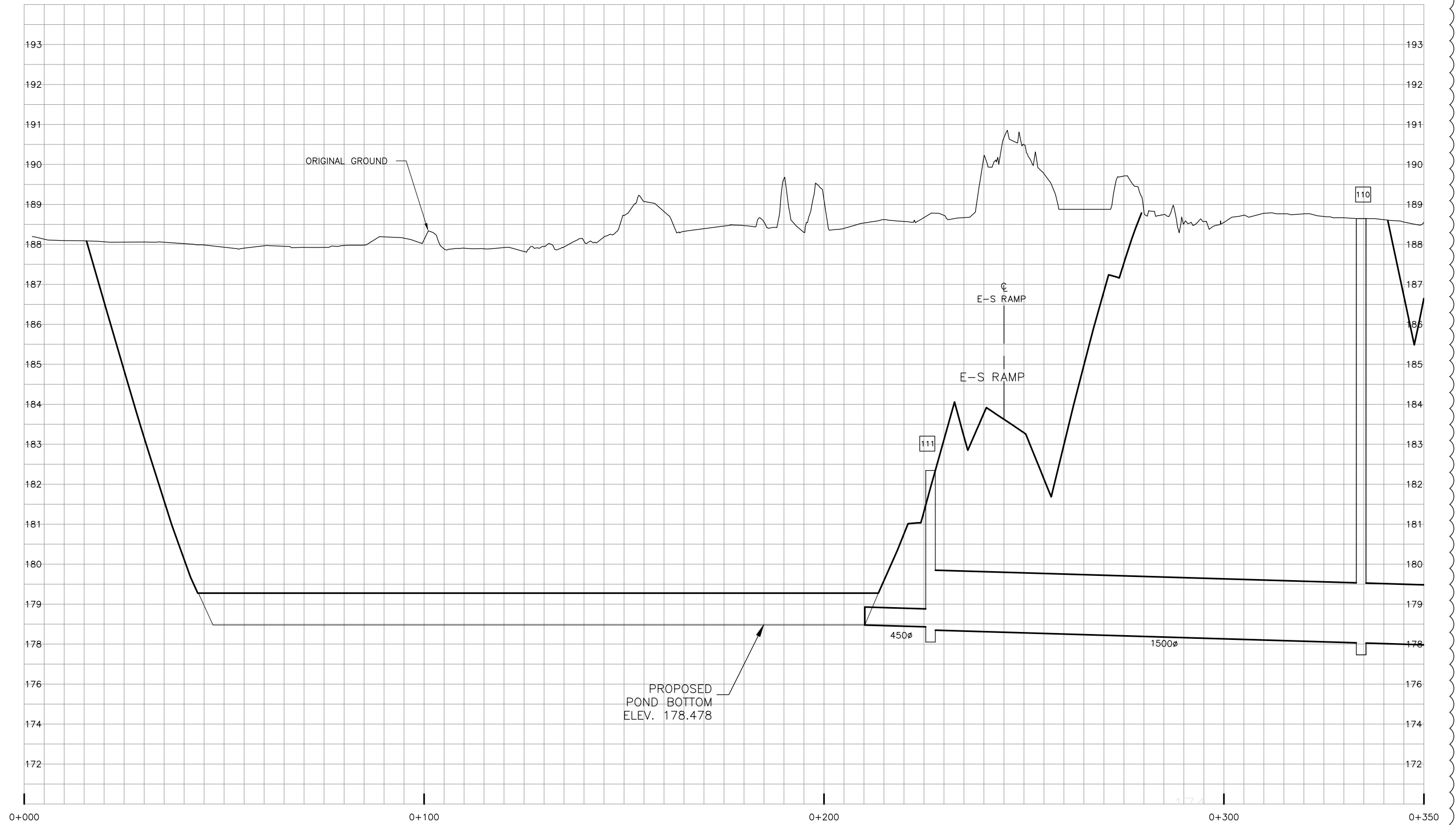


DESIGNED	PATRICK LECLERC		
DRAWN	DAVID SANOSA		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	PATRICK LECLERC		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE

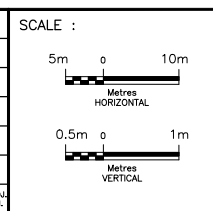


HWY 427 EXPANSION SEWER PROFILES						
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER
H427-D	N	1	HWY	000	DWG	0107
						B

POND 2 OUTLET PIPE



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
A	18/3/20	90% SUBMISSION TO CA				



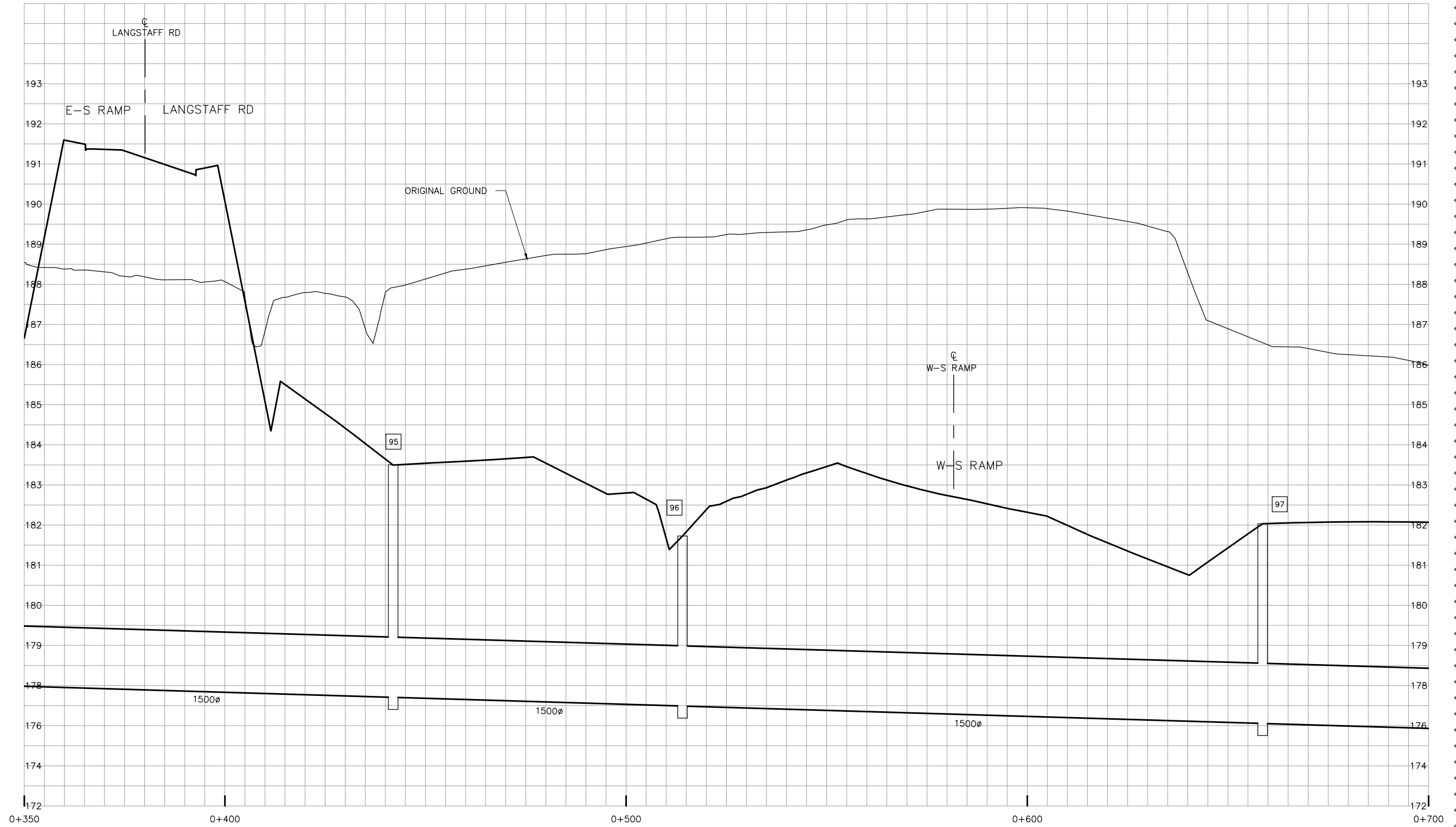
DESIGNED	SARAH ROBERTS
DRAWN	SARAH ROBERTS
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENGR.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH

NAME (PRINT)	INIT.	DATE

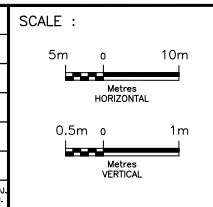


HWY 427 EXPANSION							
POND 2 OUTLET PIPE PROFILE							
STA. 0+000 TO STA. 0+350							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0108	A

POND 2 OUTLET PIPE



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
A	18/3/20	90% SUBMISSION TO CA				



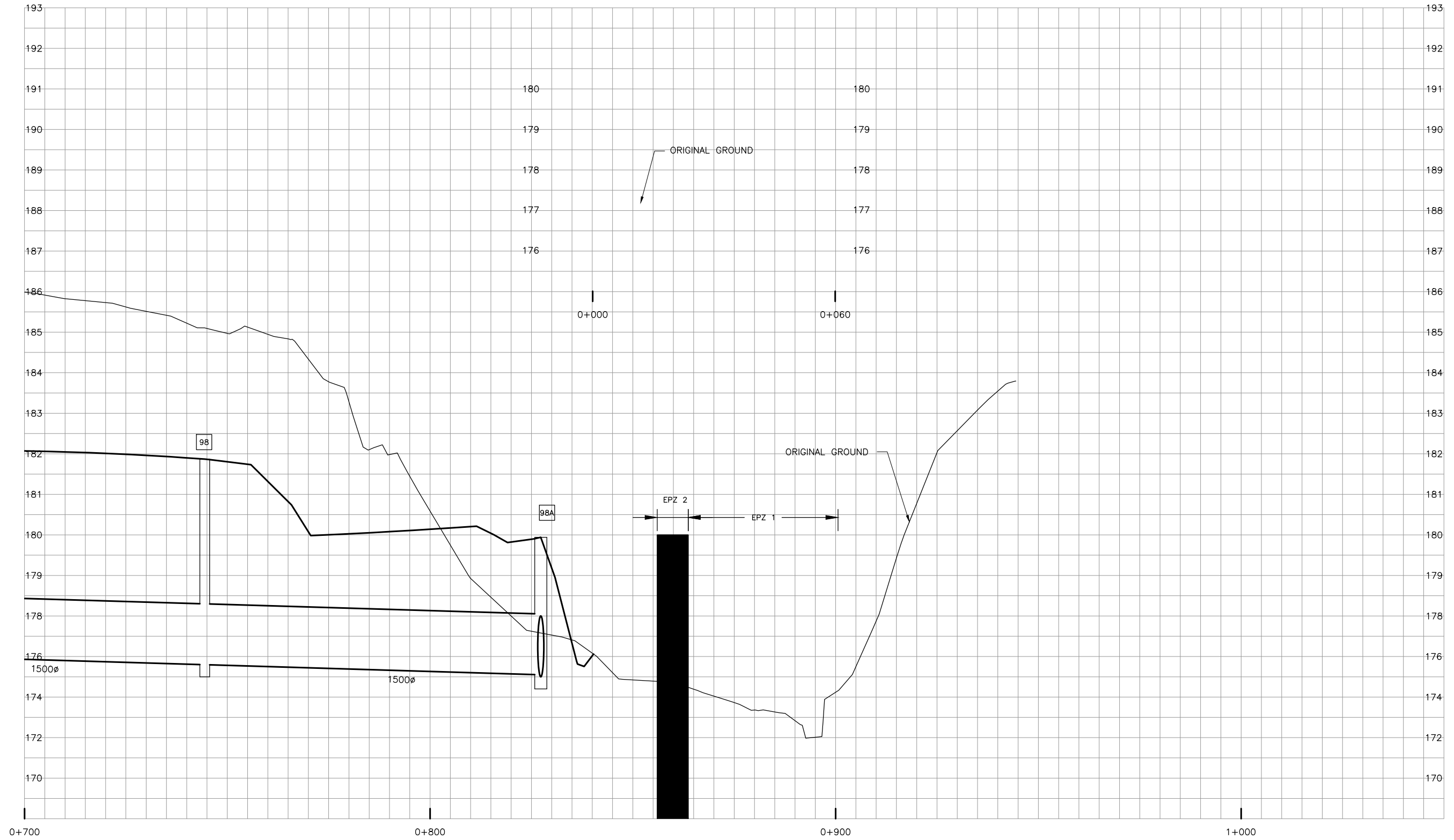
DESIGNED	SARAH ROBERTS	
DRAWN	SARAH ROBERTS	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENGR.	JONATHAN MOHACSI	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

CONSULTANT		
DESIGNED	SARAH ROBERTS	
DRAWN	SARAH ROBERTS	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENGR.	JONATHAN MOHACSI	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

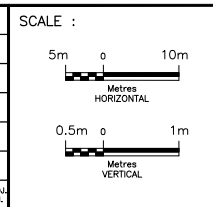


HWY 427 EXPANSION							
POND 2 OUTLET PIPE PROFILE							
STA. 0+350 TO STA. 0+700							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0109	A

POND 2 OUTLET PIPE



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
A	18/3/20	90% SUBMISSION TO CA				



DESIGNED	SARAH ROBERTS	
DRAWN	SARAH ROBERTS	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENG.	JONATHAN MOHACSI	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

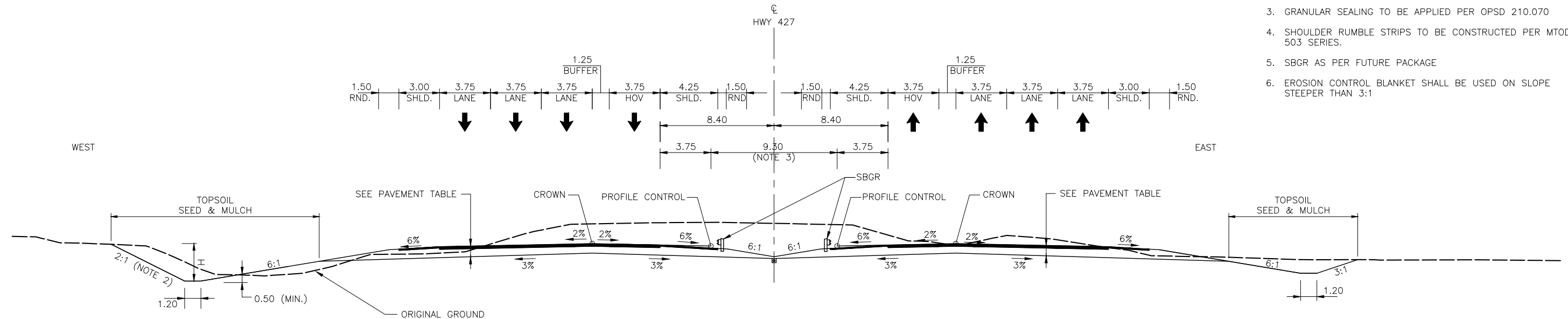
CONSULTANT		
DESIGNED	SARAH ROBERTS	
DRAWN	SARAH ROBERTS	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENG.	JONATHAN MOHACSI	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE



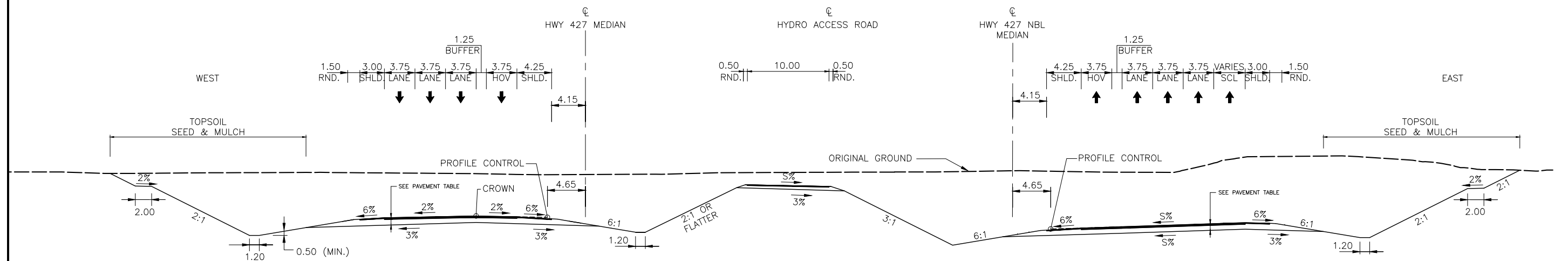
HWY 427 EXPANSION							
POND 2 OUTLET PIPE PROFILE							
STA. 0+700 TO STA. 1+000							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0110	A

NOTES:

1. FORESLOPE: WHERE $h < 3m$, SLOPE SHALL BE 6:1
WHERE $3 < h < 4.5$, SLOPE SHALL BE 5:1
WHERE $4.5 < h < 6$, SLOPE SHALL BE 4:1
WHERE $h > 6$, SLOPE SHALL BE 2:1
WITH 2m BENCHING EVERY 8m IN HEIGHT
2. BACKSLOPE: WHERE $H < 3$, SLOPE SHALL BE 3:1
WHERE $H > 3$, SLOPE SHALL BE 2:1
WITH 2m BENCHING EVERY 6m IN HEIGHT
3. GRANULAR SEALING TO BE APPLIED PER OPSD 210.070
4. SHOULDER RUMBLE STRIPS TO BE CONSTRUCTED PER MTD 503 SERIES.
5. SBGR AS PER FUTURE PACKAGE
6. EROSION CONTROL BLANKET SHALL BE USED ON SLOPE STEEPER THAN 3:1



HWY 427 - 8 LANE EXTENSION
STA 10+500 - 12+080
N.T.S



HWY 427 - 8 LANE EXTENSION - HYDRO CORRIDOR
STA. 12+080 - 12+930
N.T.S

NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

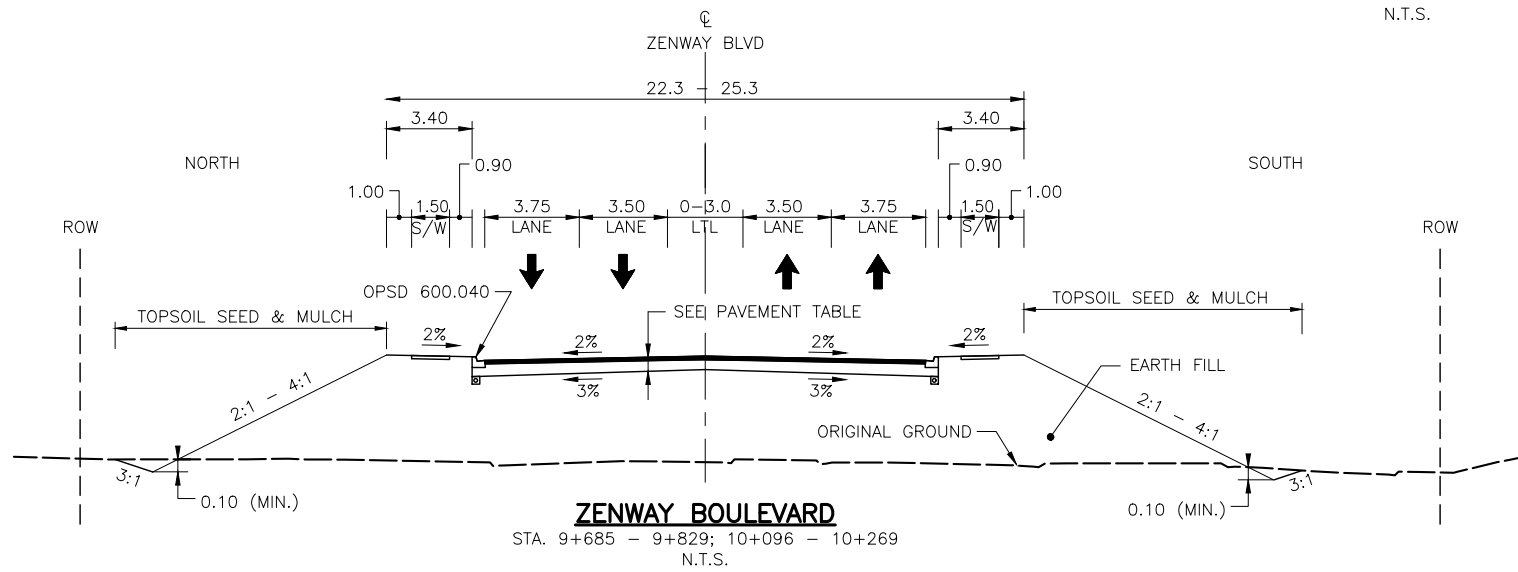
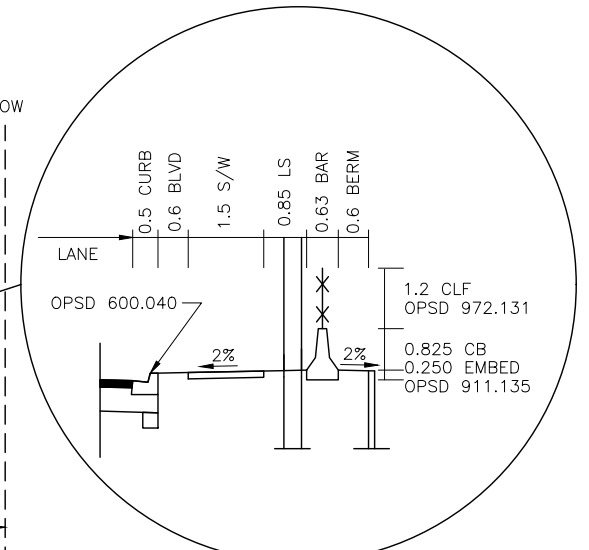
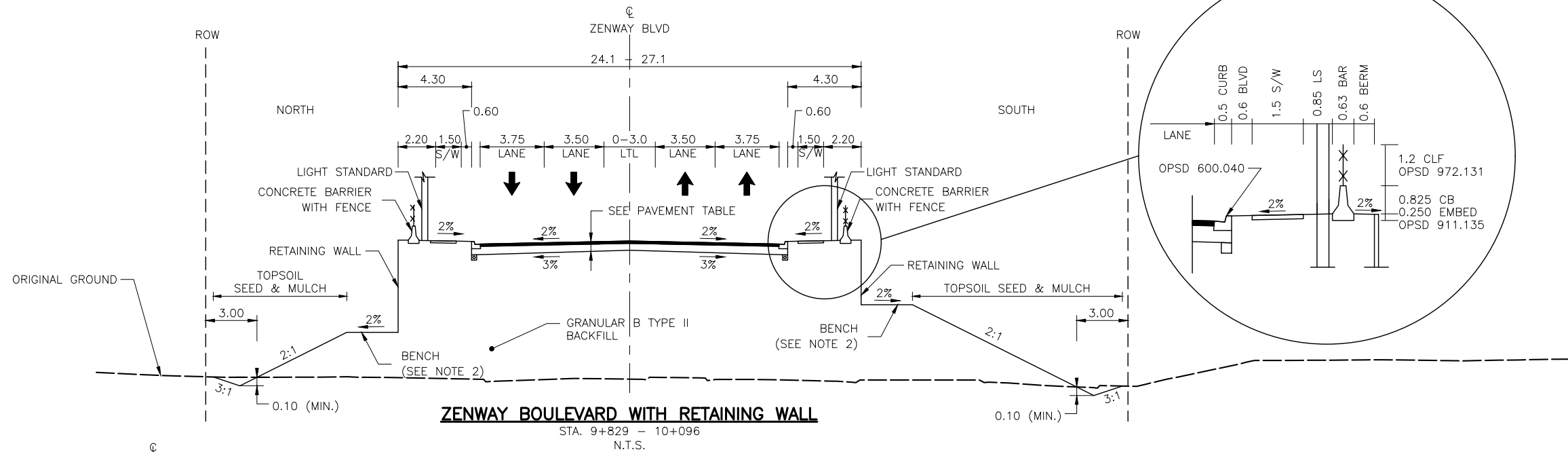
SCALE :

N.T.S

DESIGNED	SARAH ROBERTS	
DRAWN	SARAH ROBERTS	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENGINEER	JONATHAN MOHACSI	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

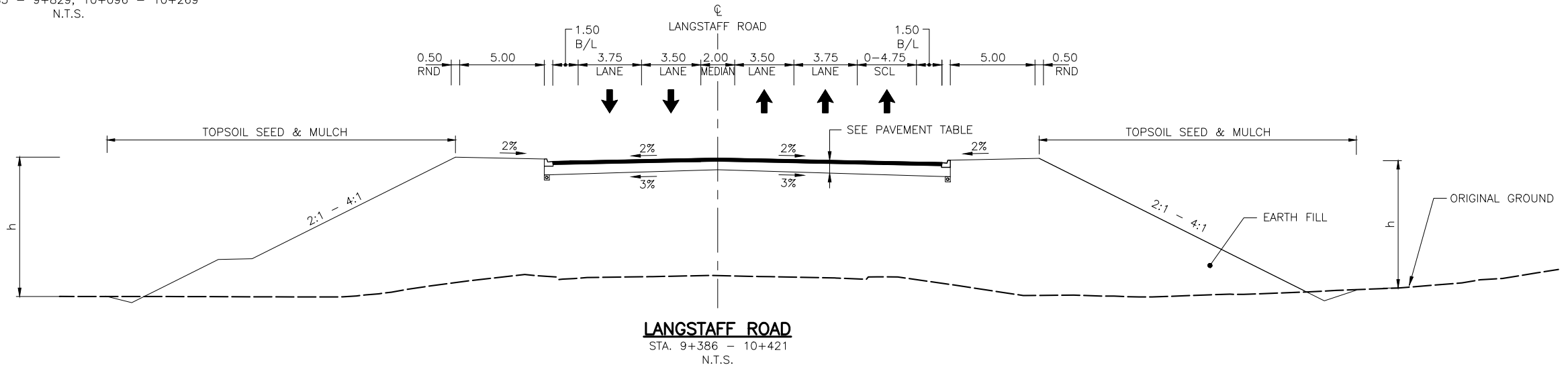


HWY 427 EXPANSION							
TYPICAL SECTIONS							
HIGHWAY 427 MAINLINE							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0111	B



NOTES:

1. WHERE $h < 3$, SLOPE SHALL BE 4:1
WHERE $h > 3$, SLOPE SHALL BE 2:1
WITH 2m BENCHING EVERY 8m IN HEIGHT
2. WHERE RETAINING WALL HEIGHT $< 4.0m$, BENCH WIDTH IS 3.5m
WHERE RETAINING WALL HEIGHT $> 4.0m$, BENCH WIDTH IS 4.0m
3. GRANULAR SEALING TO BE APPLIED PER OPSD 210.070
4. EROSION CONTROL BLANKET SHALL BE USED ON SLOPE STEEPER THAN 3:1



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

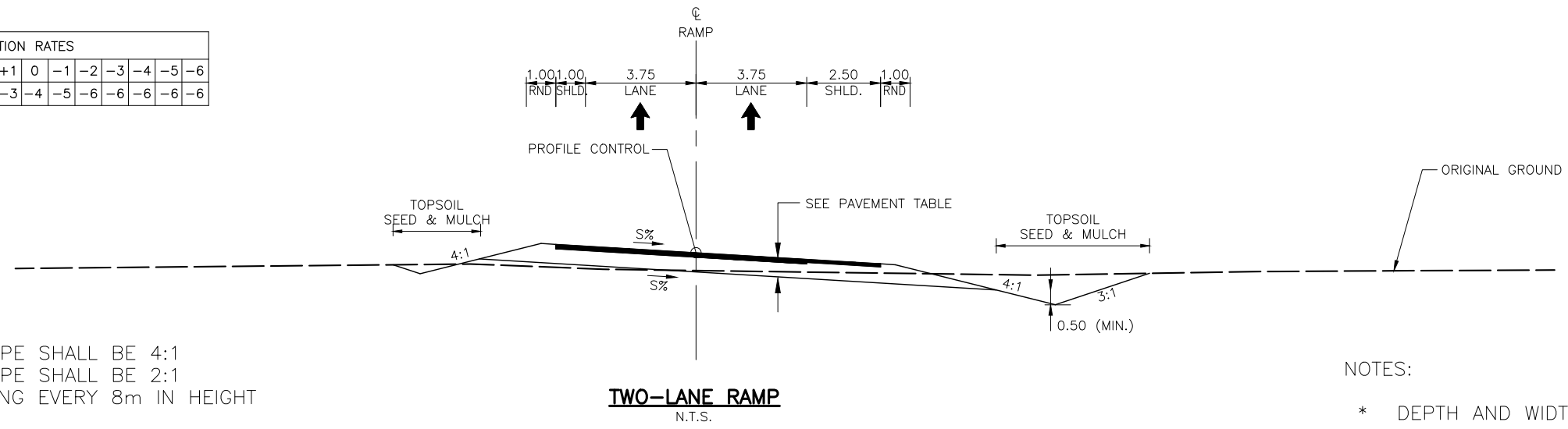
SCALE :
N.T.S.

DESIGNED	SARAH ROBERTS	
DRAWN	SARAH ROBERTS	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENGINEER	JONATHAN MOHACSI	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE



HWY 427 EXPANSION						
TYPICAL SECTIONS CROSSING ROADS						
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER
H427-D	N	1	HWY	000	DWG	0112

SUPERELEVATION RATES													
PAVEMENT	+6	+5	+4	+3	+2	+1	0	-1	-2	-3	-4	-5	-6
SHOULDER	-2	-2	-2	-3	-3	-3	-4	-5	-6	-6	-6	-6	-6



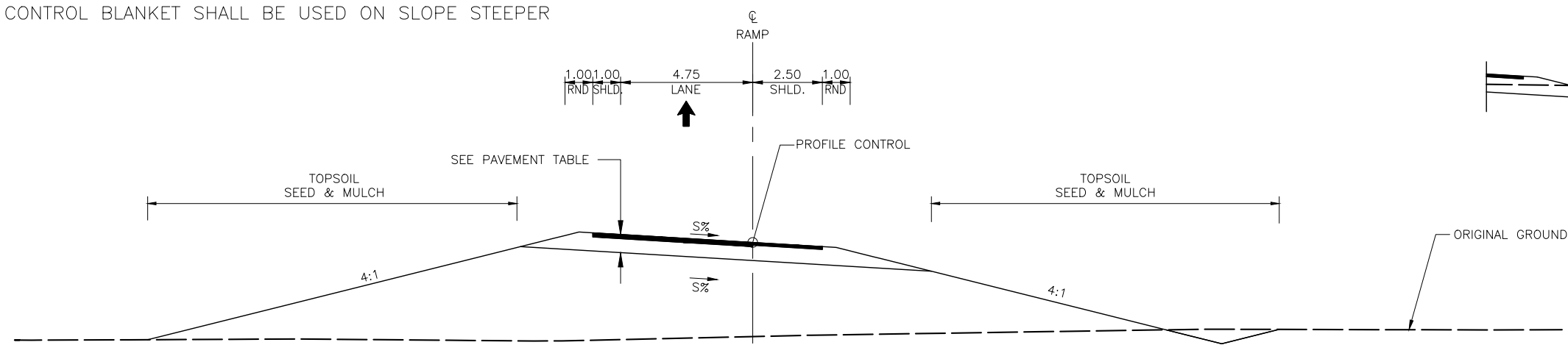
TWO-LANE RAMP
N.T.S.

NOTES:

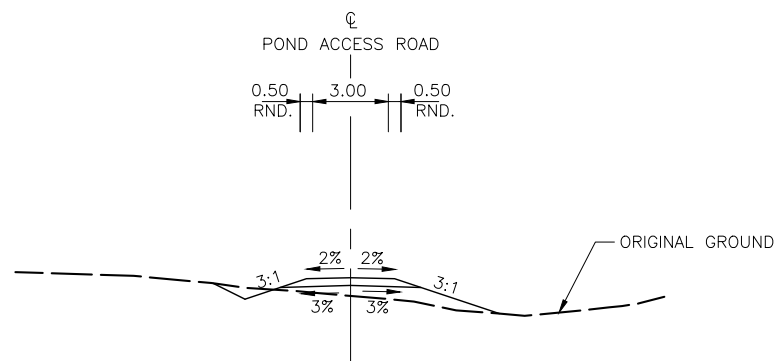
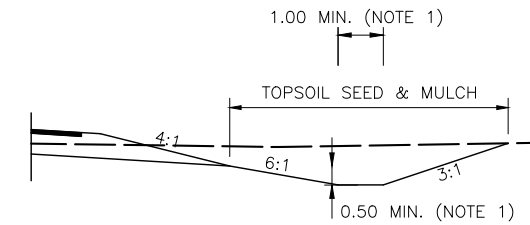
1. WHERE $h < 3$, SLOPE SHALL BE 4:1
WHERE $h > 3$, SLOPE SHALL BE 2:1
WITH 2m BENCHING EVERY 8m IN HEIGHT
2. GRANULAR SEALING TO BE APPLIED PER OPSD 210.070
3. EROSION CONTROL BLANKET SHALL BE USED ON SLOPE STEEPER THAN 3:1

NOTES:

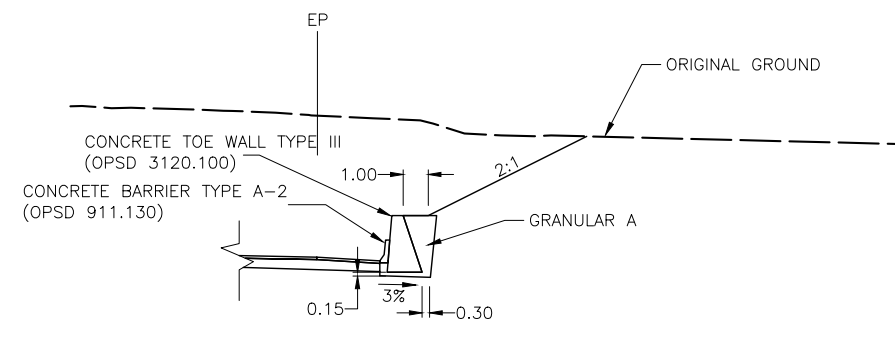
* DEPTH AND WIDTH WILL DEPEND ON HYDRAULIC REQUIREMENTS.



SINGLE LANE RAMP
N.T.S.

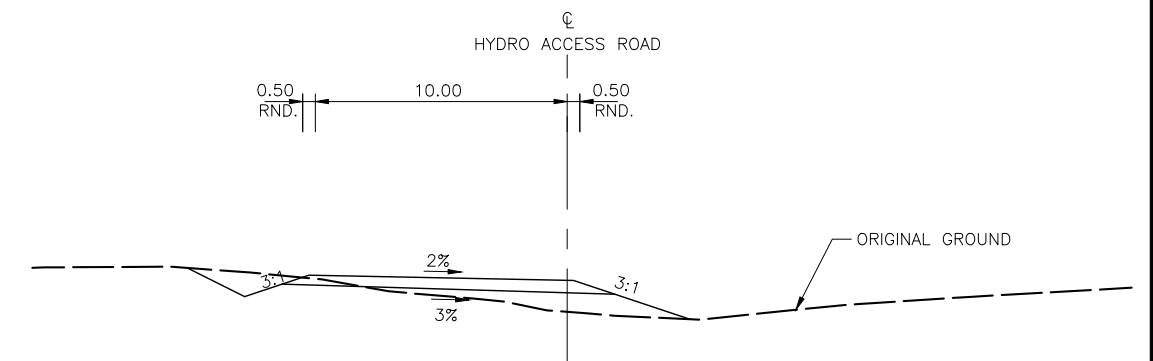


HMLP/SWM POND ACCESS ROAD
N.T.S.



CONCRETE TOE WALL

LANGSTAFF E-N RAMP STA. 9+720 - STA. 9+760 RT
HWY 427 SBL STA. 12+529 - STA. 12+570 LT (OUTSIDE SHOULDER)
N.T.S.



HYDRO ACCESS ROAD

STA. 12+460 - STA. 12+900
N.T.S.

NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
B	18/3/20	90% SUBMISSION TO CA				
A	18/1/12	90% SUBMISSION TO CA				

SCALE :

N.T.S.

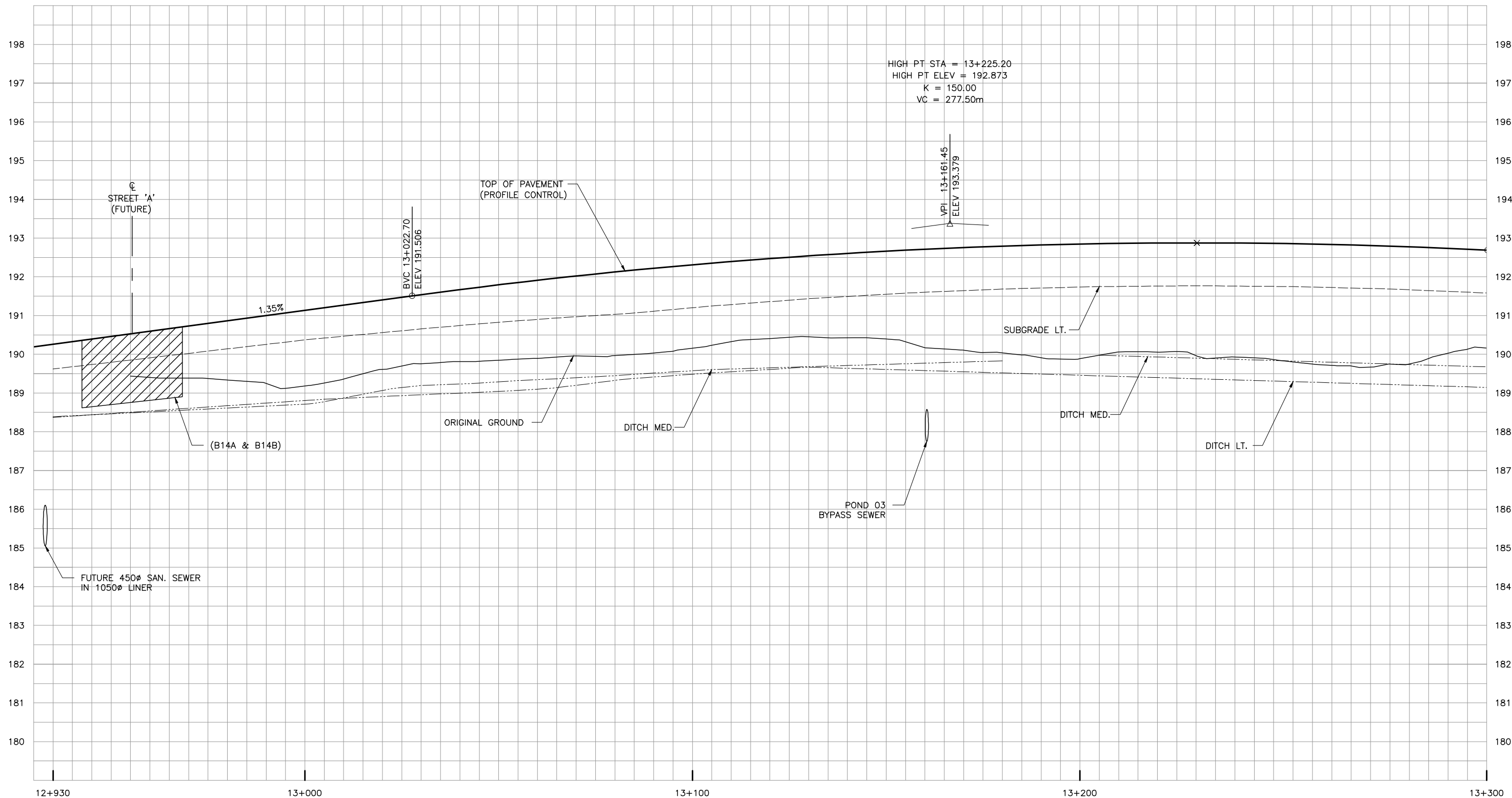
DESIGNED	SARAH ROBERTS		
DRAWN	SARAH ROBERTS		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENGINEER	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
		NAME (PRINT)	INIT. DATE



HWY 427 EXPANSION
TYPICAL SECTIONS
RAMPS & ACCESS ROADS

PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	1	HWY	000	DWG	0113	B

HIGHWAY 427

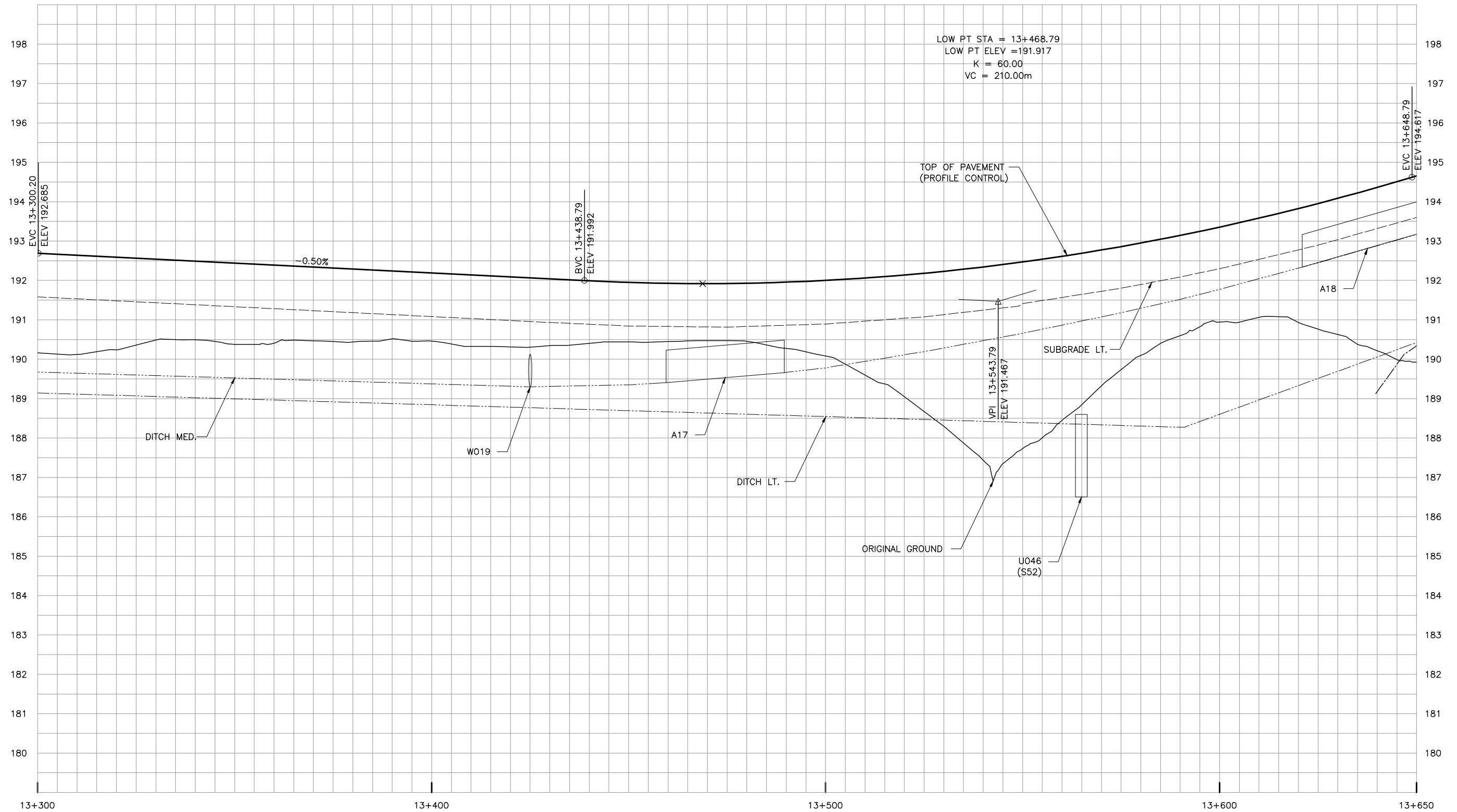


NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

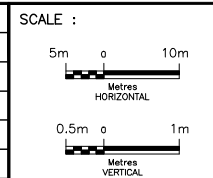
SCALE :	DESIGNED :	DRAWN :	CHECKED :	APPROVED LEAD ENG. :	APPROVED PROJ. MANAGER :	CONSULTANT
<div style="display: flex; justify-content: space-around;"> <div> <small>5m</small> <small>10m</small> Metres HORIZONTAL </div> <div> <small>0.5m</small> <small>1m</small> Metres VERTICAL </div> </div>	IMRAN AHMAD	EDDY LEUNG	DUNCAN CAMPBELL	JONATHAN MOHACSI	PETER BAMFORTH	
	NAME (PRINT)		INIT.	DATE		

TITLE						
HWY 427 EXPANSION						
PROFILE						
STA. 12+930 TO STA. 13+300						
PROJECT ID.	STAGE	IDENTIFIER	DESIGN	DISCIPLINE	STRUCTURE	DOCUMENT
NUMBER			PACKAGE		NUMBER	TYPE
DRAWING			NUMBER			NUMBER
NUMBER						
REVISION						NUMBER
H427-D	N		2	HWY	000	DWG
0039						C

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

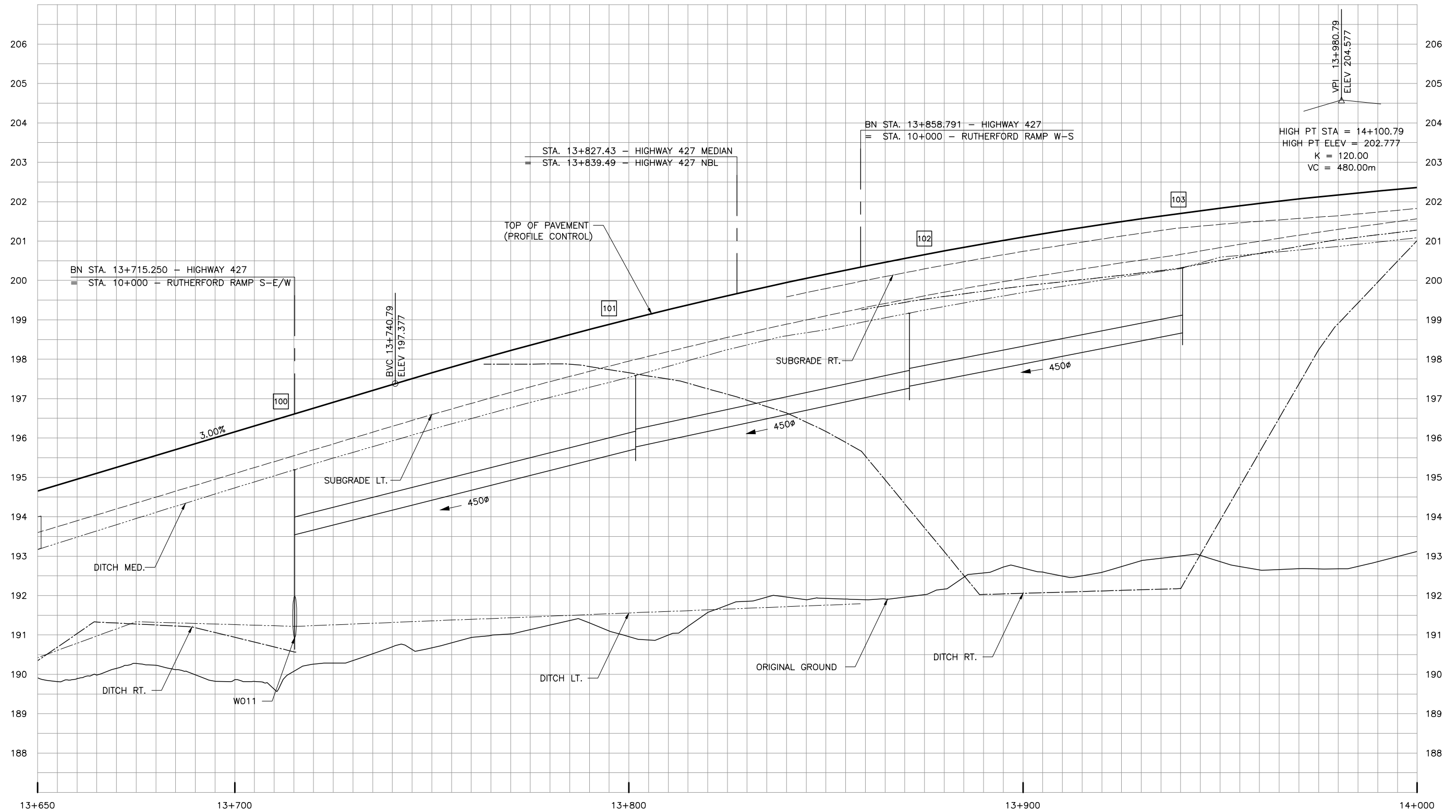


DESIGNED	IMRAN AHMAD	
DRAWN	EDDY LEUNG	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENG.	JONATHAN MOHACSI	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

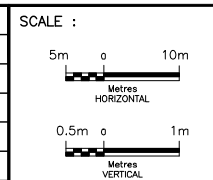


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 13+300 TO STA. 13+650							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0040	C

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

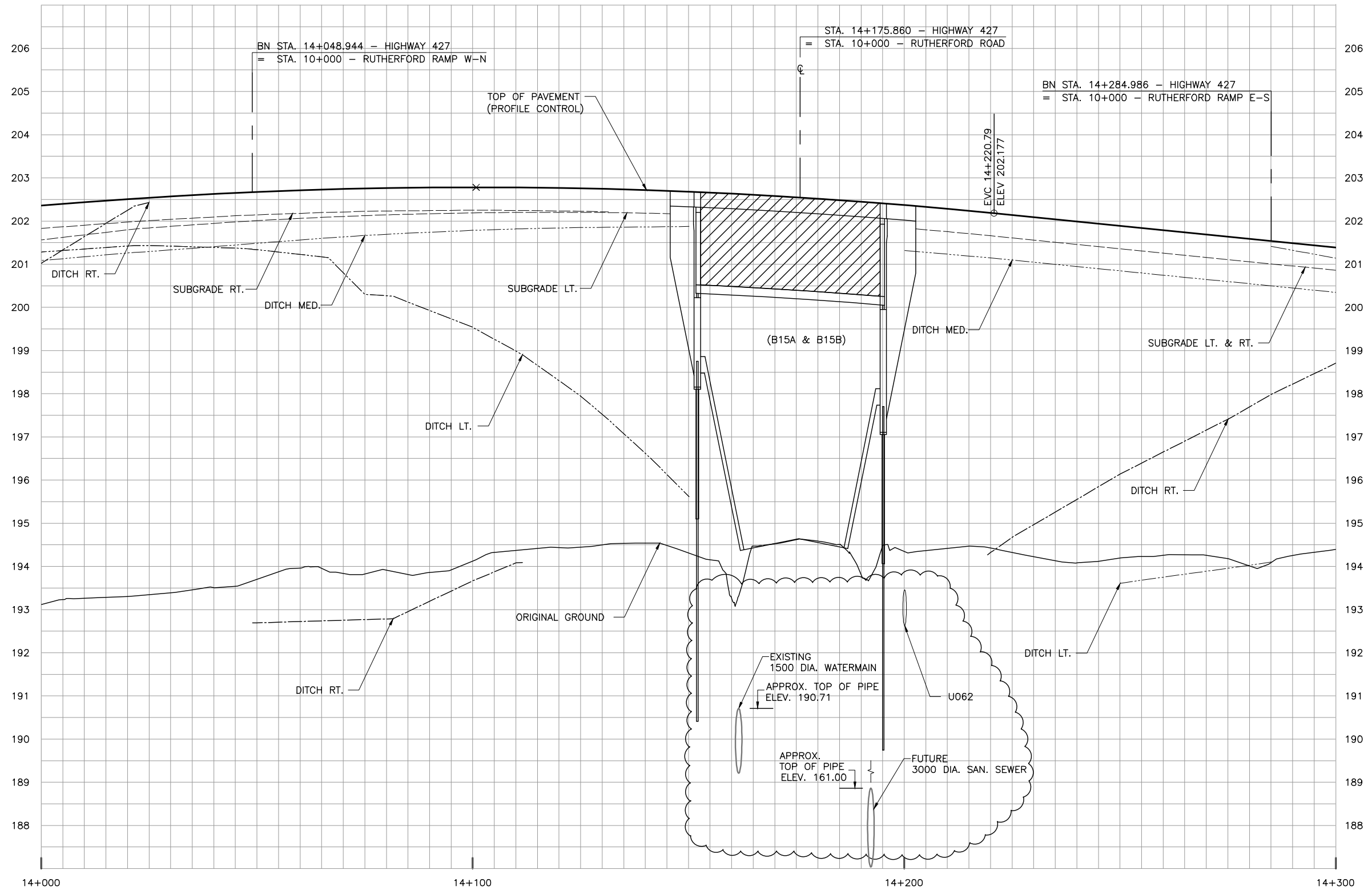


DESIGNED	IMRAN AHMAD		
DRAWN	EDDY LEUNG		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
DATE			

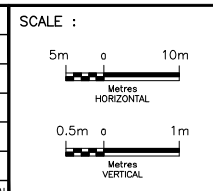


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 13+650 TO STA. 14+000							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0041	C

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

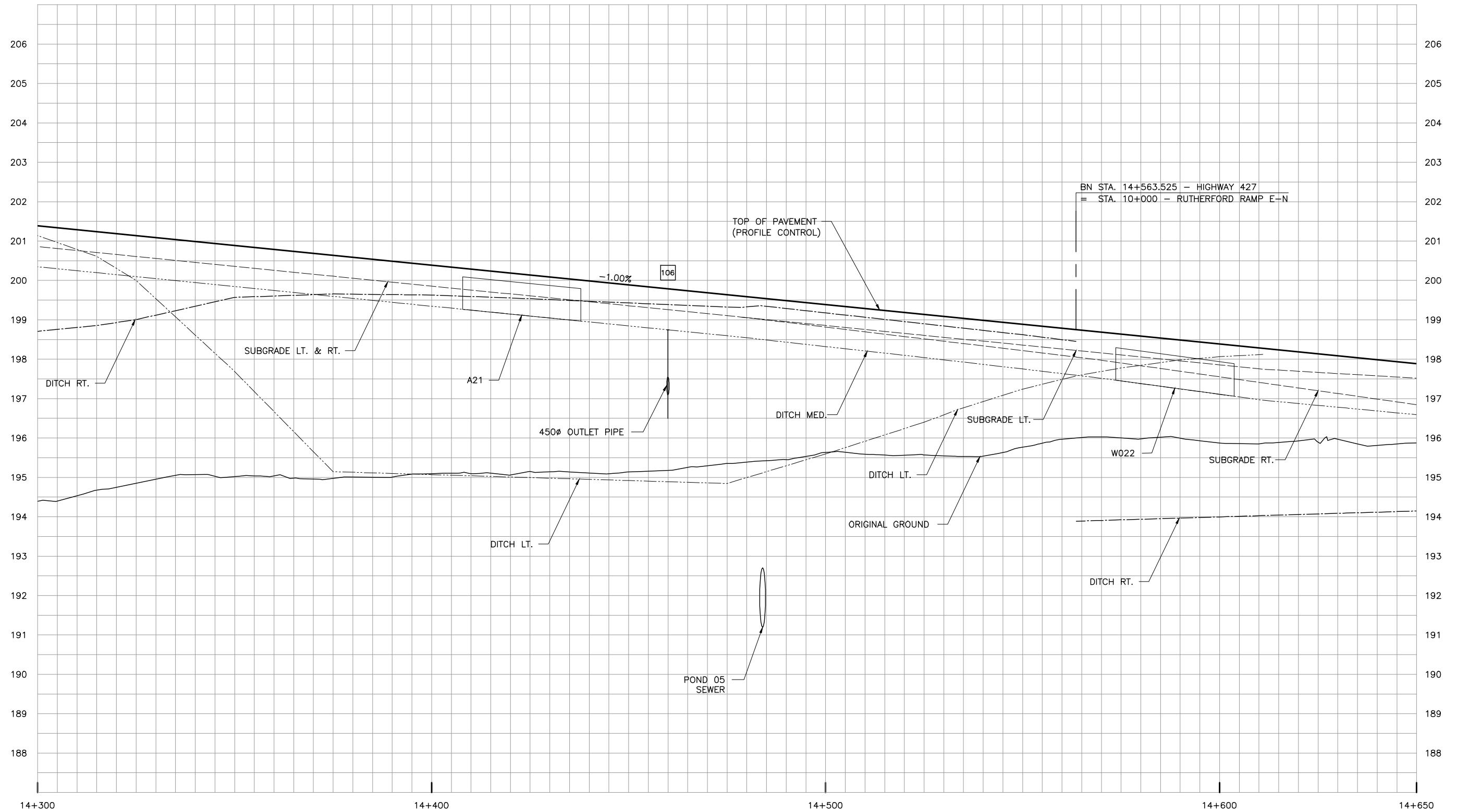


DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	
INIT.	
DATE	

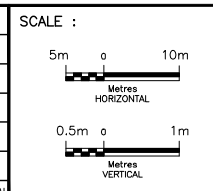


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 14+000 TO STA. 14+300							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0042	C

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

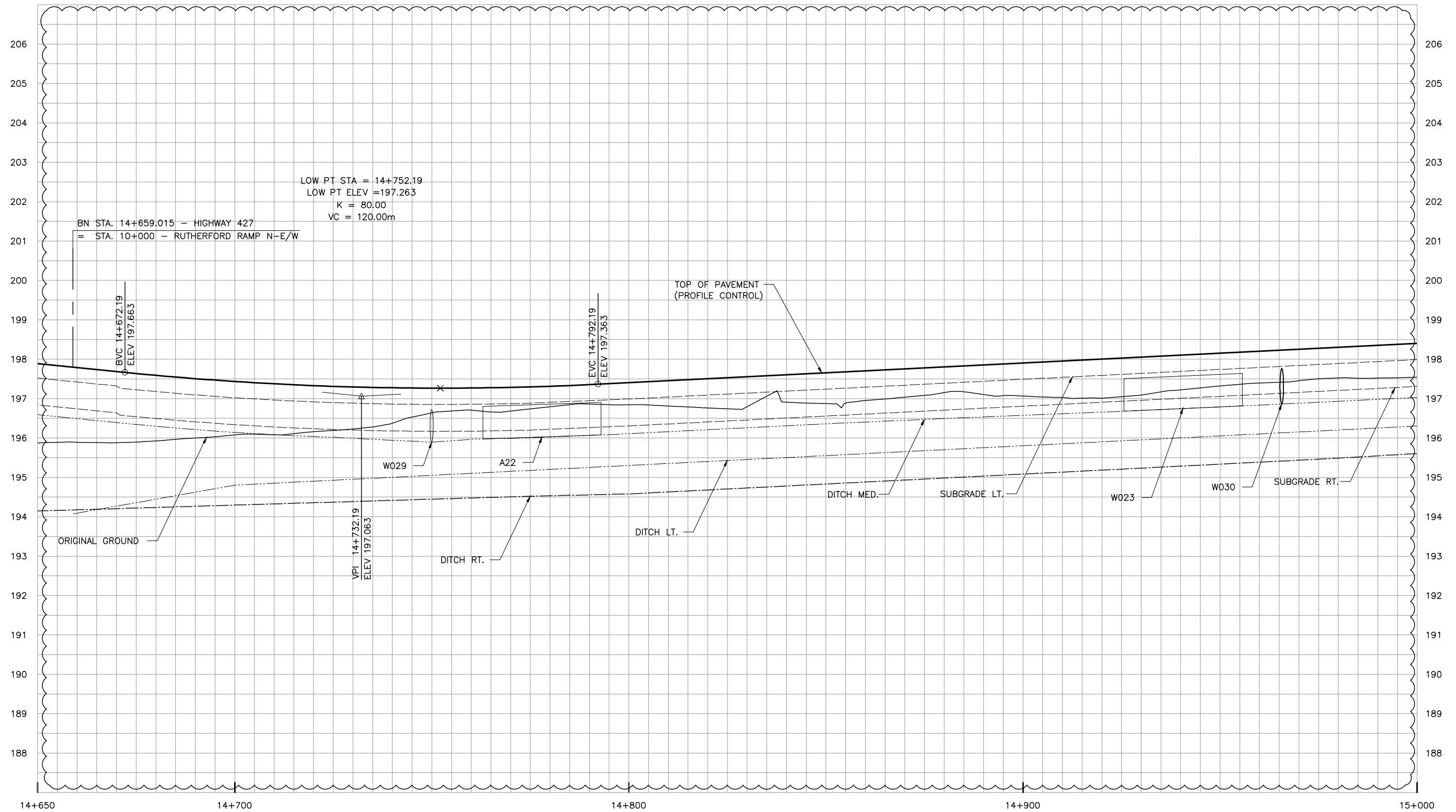


DESIGNED	IMRAN AHMAD		
DRAWN	EDDY LEUNG		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
		DATE	

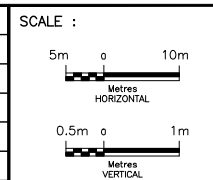


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 14+300 TO STA. 14+650							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0043	C

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

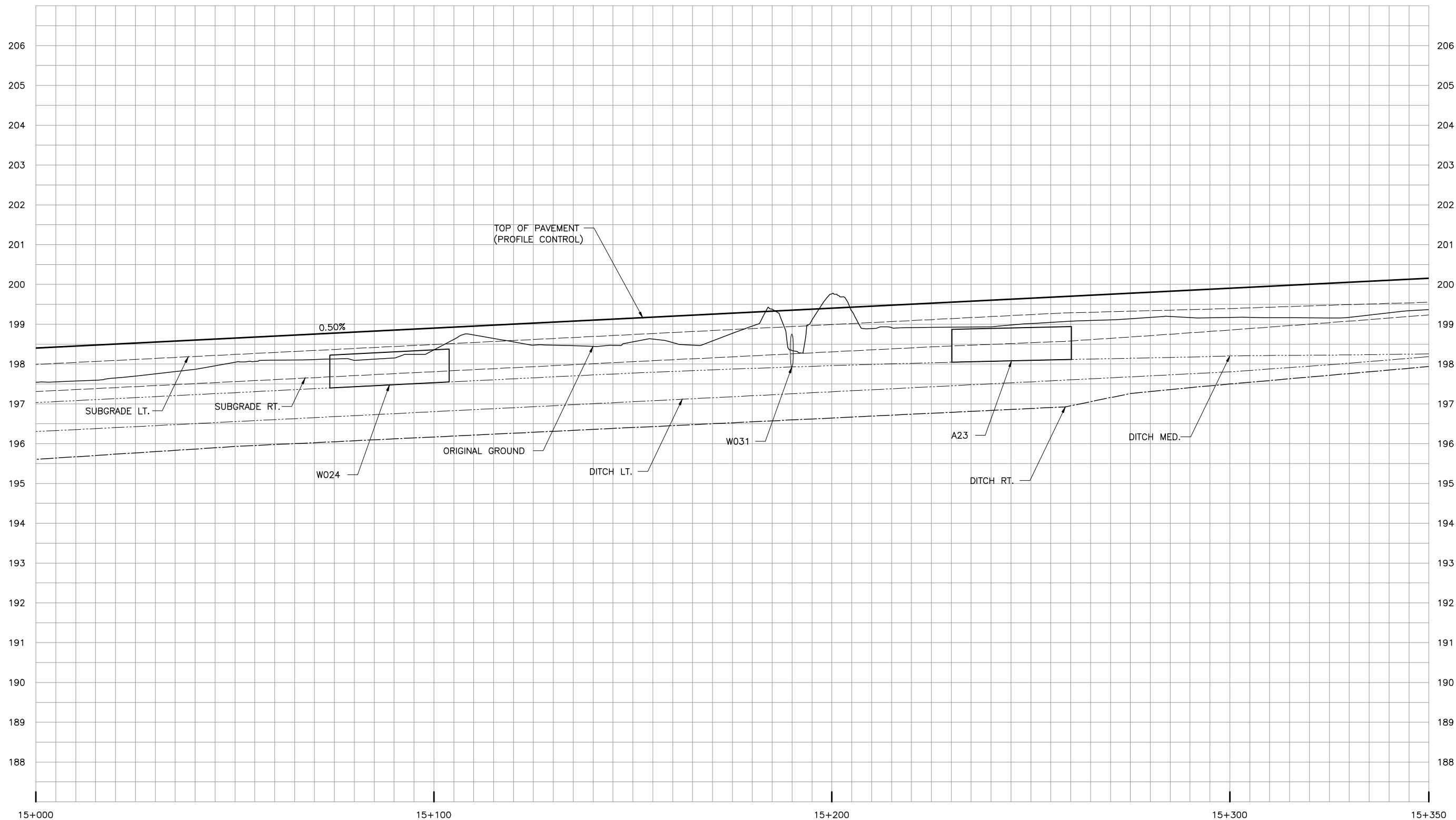


DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	
INIT.	
DATE	

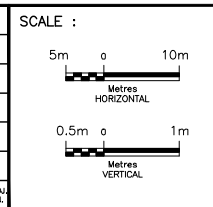


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 14+650 TO STA. 15+000							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0044	C

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

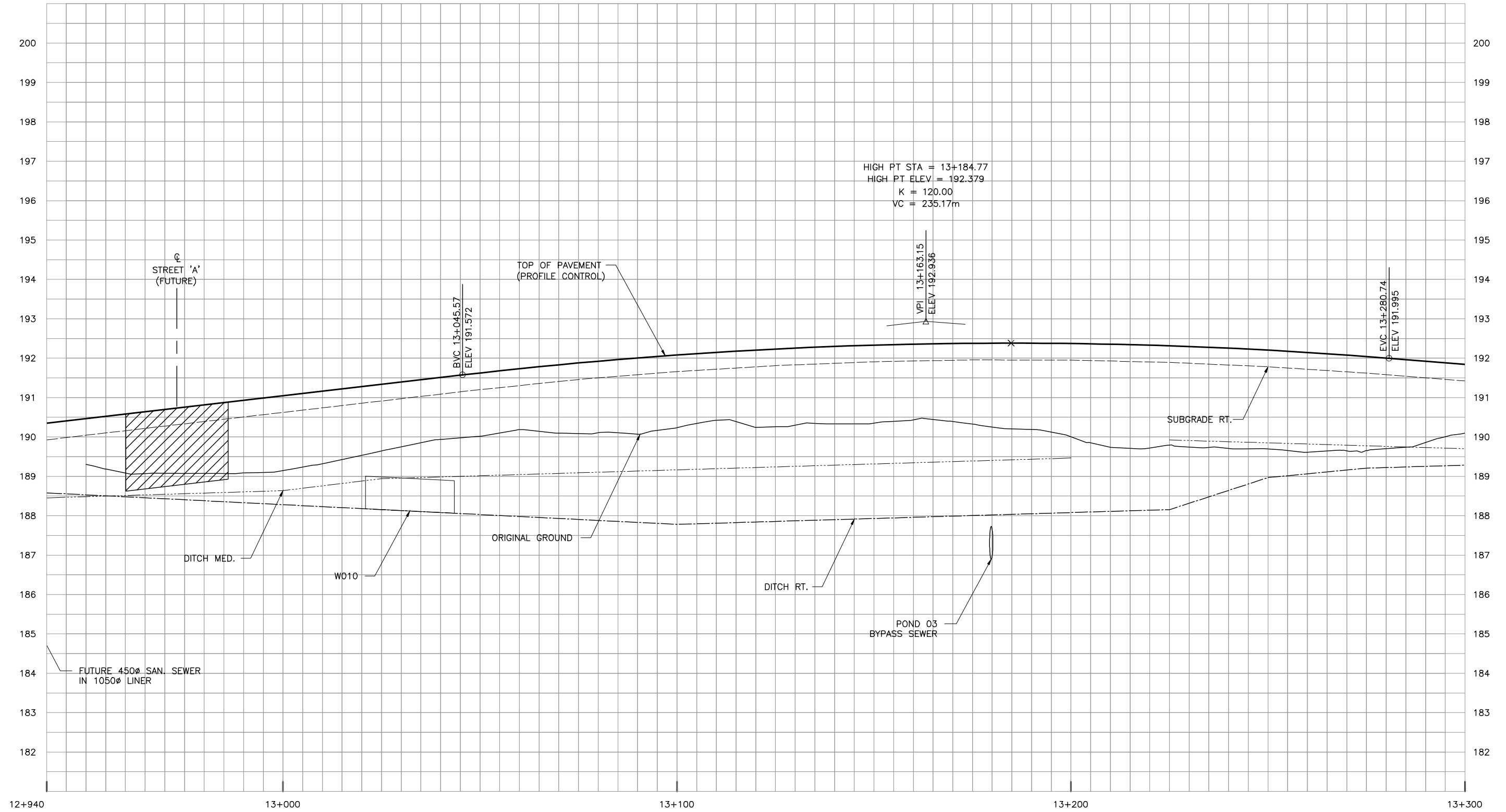


DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	
INIT.	
DATE	

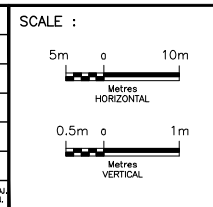


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 15+000 TO STA. 15+350							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0045	C

HIGHWAY 427 (NORTHBOUND LANES)



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

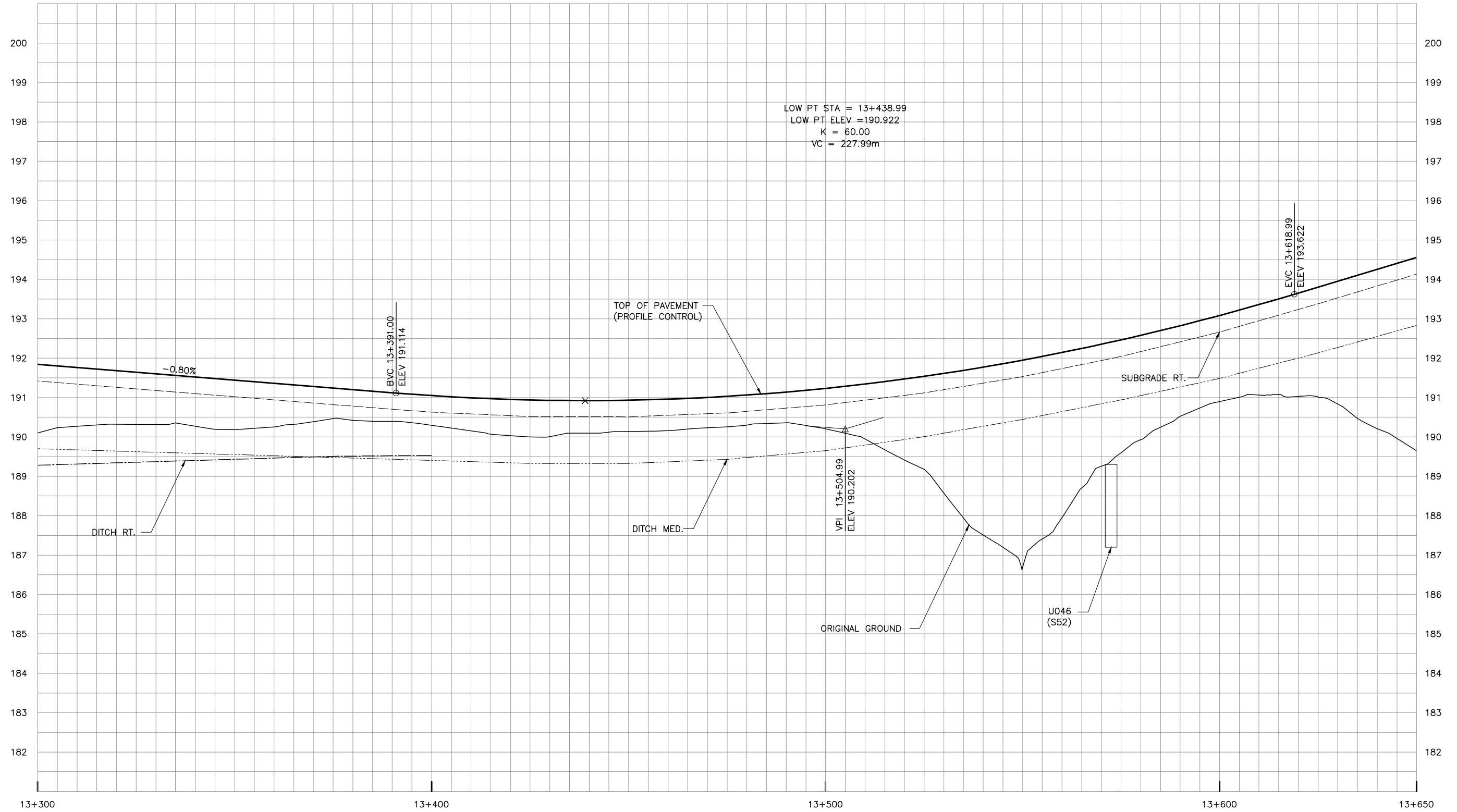


DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	
INIT.	
DATE	

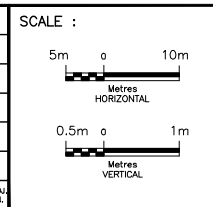


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 12+940 TO STA. 13+300							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0046	C

HIGHWAY 427 (NORTHBOUND LANES)



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



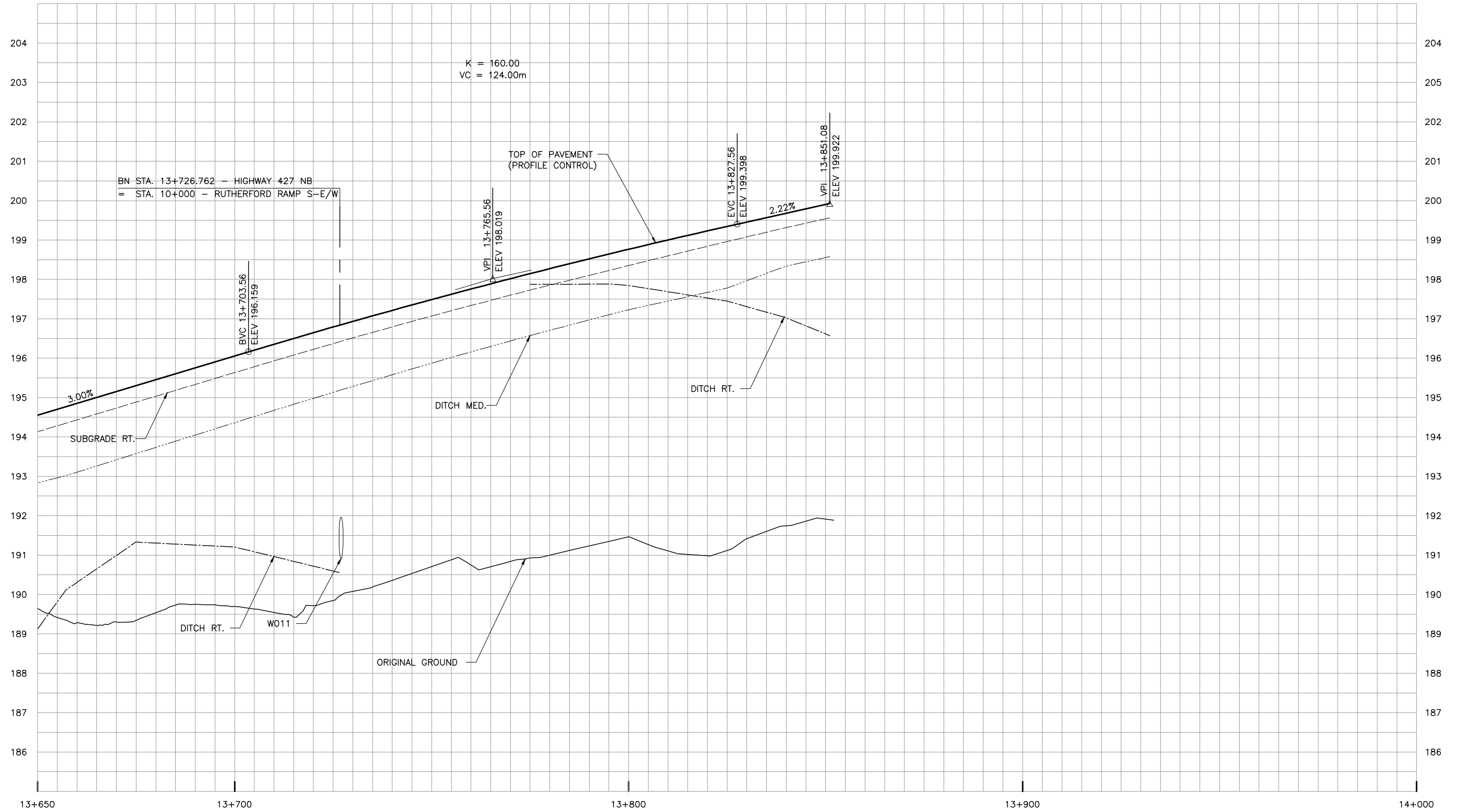
DESIGNED	IMRAN AHMAD	INIT.	DATE
DRAWN	EDDY LEUNG		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		

CONSULTANT	NAME (PRINT)	INIT.	DATE

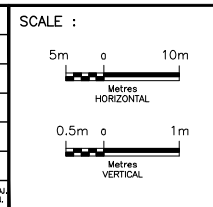


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 13+300 TO STA. 13+650							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0047	C

HIGHWAY 427 (NORTHBOUND LANES)



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



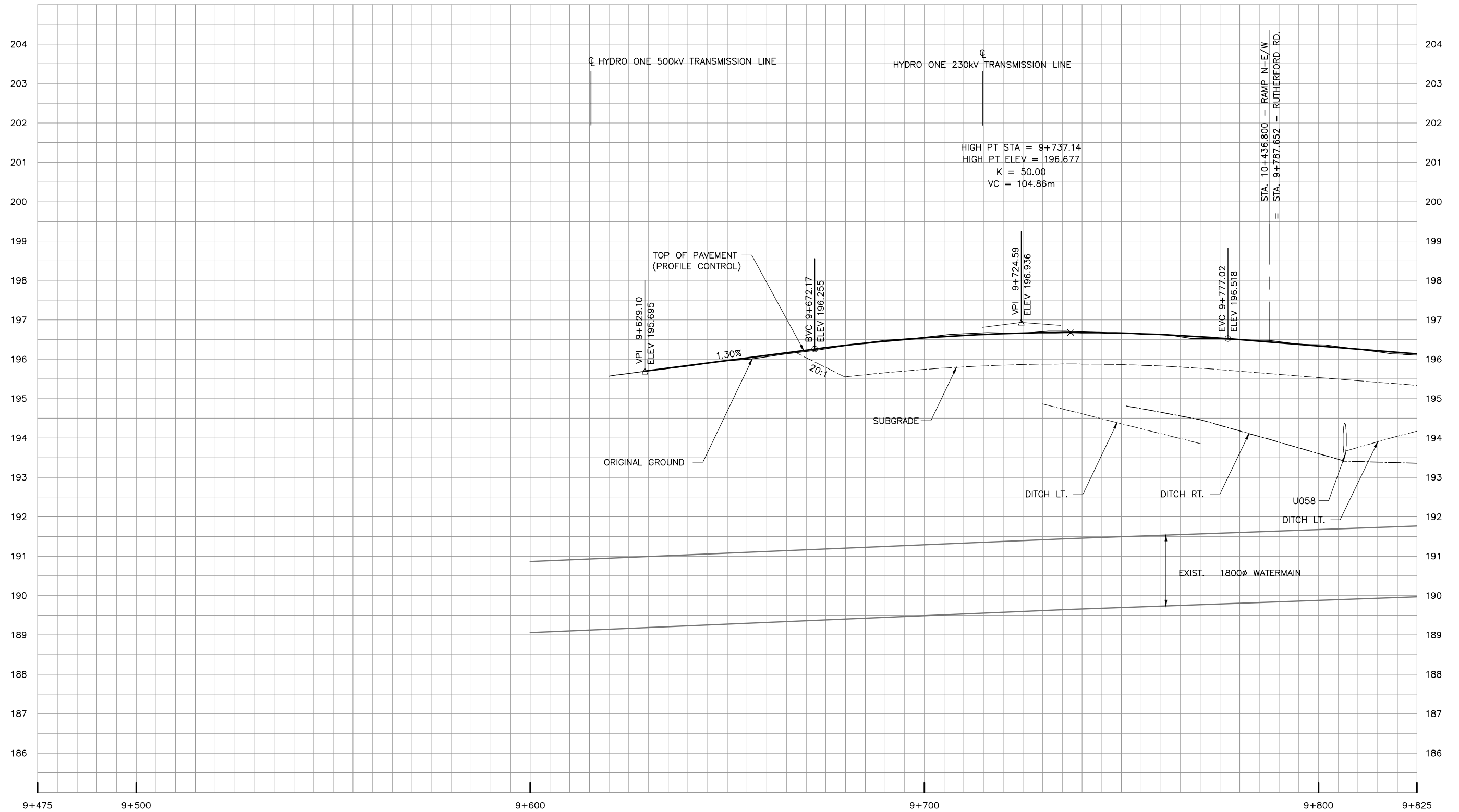
DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	INIT. DATE

CONSULTANT	
DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	INIT. DATE

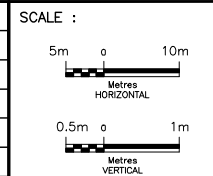


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 13+650 TO STA. 13+851.08							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0048	C

RUTHERFORD ROAD



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

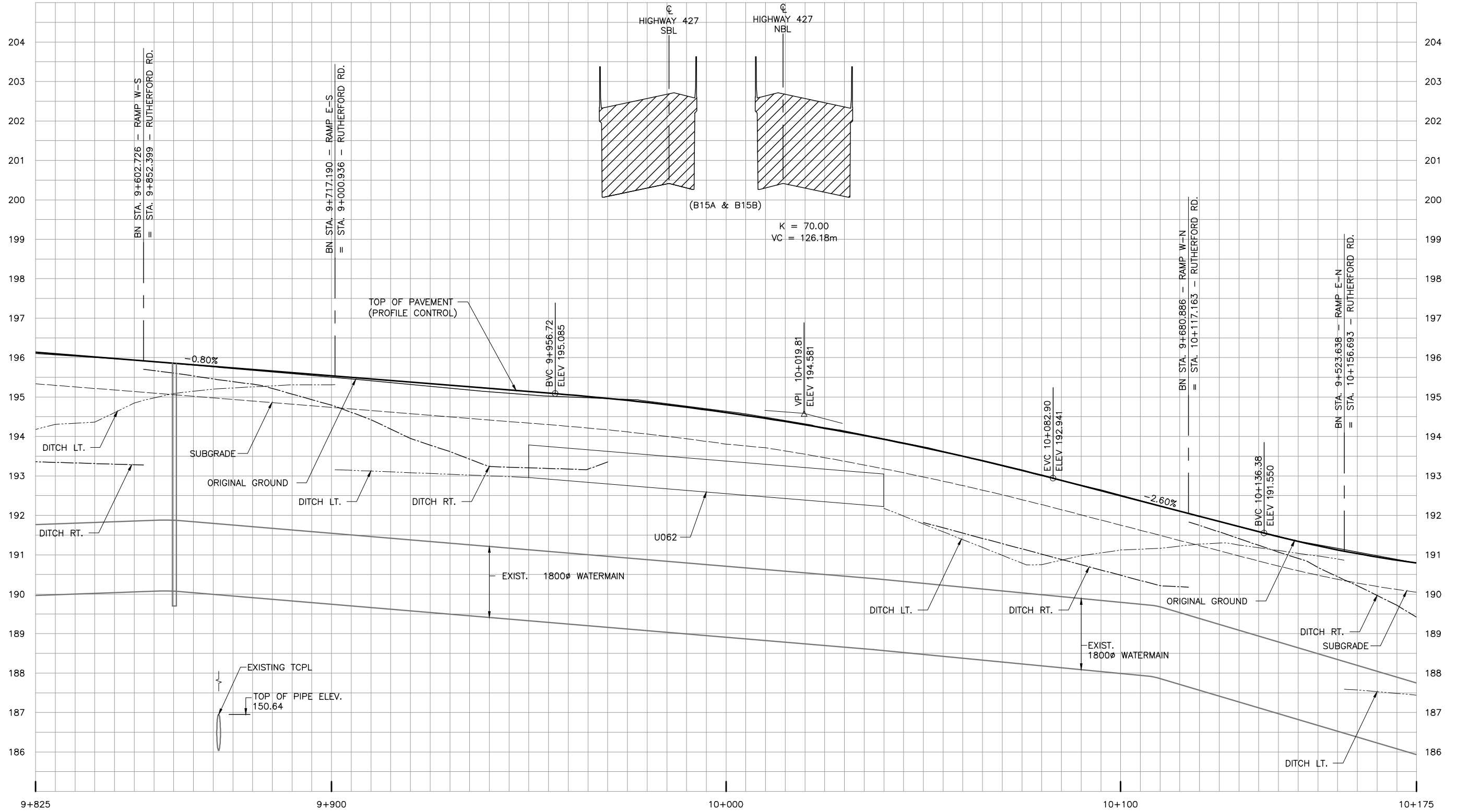


DESIGNED	IMRAN AHMAD	INIT.	DATE
DRAWN	EDDY LEUNG		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE

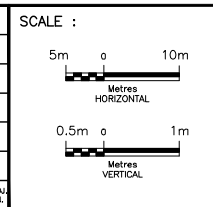


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+629.10 TO STA. 9+825							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0049	C

RUTHERFORD ROAD



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

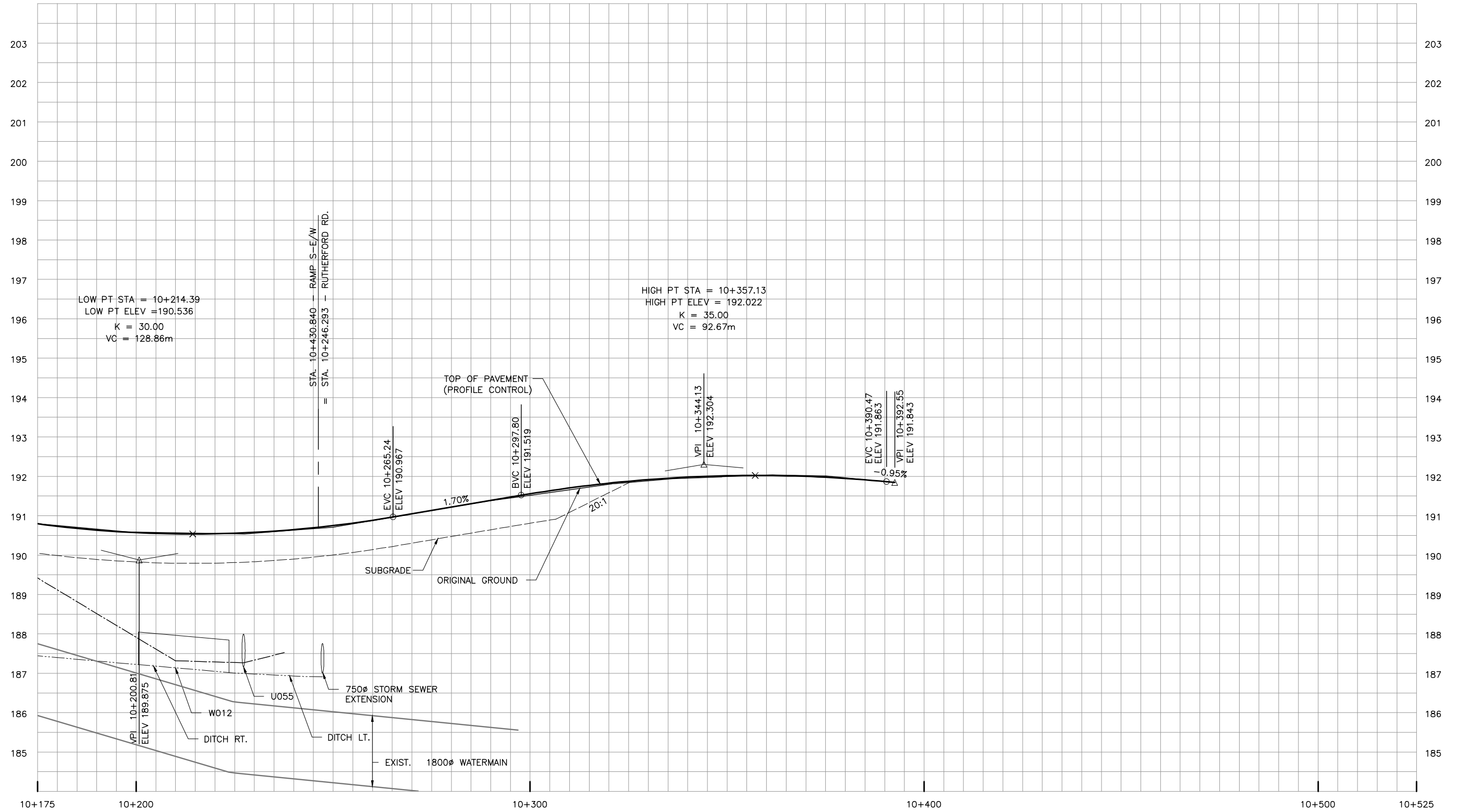


DESIGNED	IMRAN AHMAD		
DRAWN	EDDY LEUNG		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		

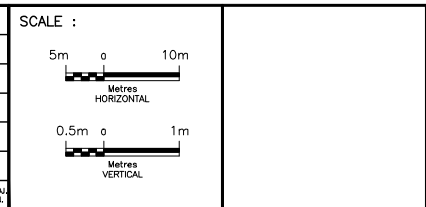


TITLE HWY 427 EXPANSION							
PROFILE STA. 9+825 TO STA. 10+175							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0050	C

RUTHERFORD ROAD



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

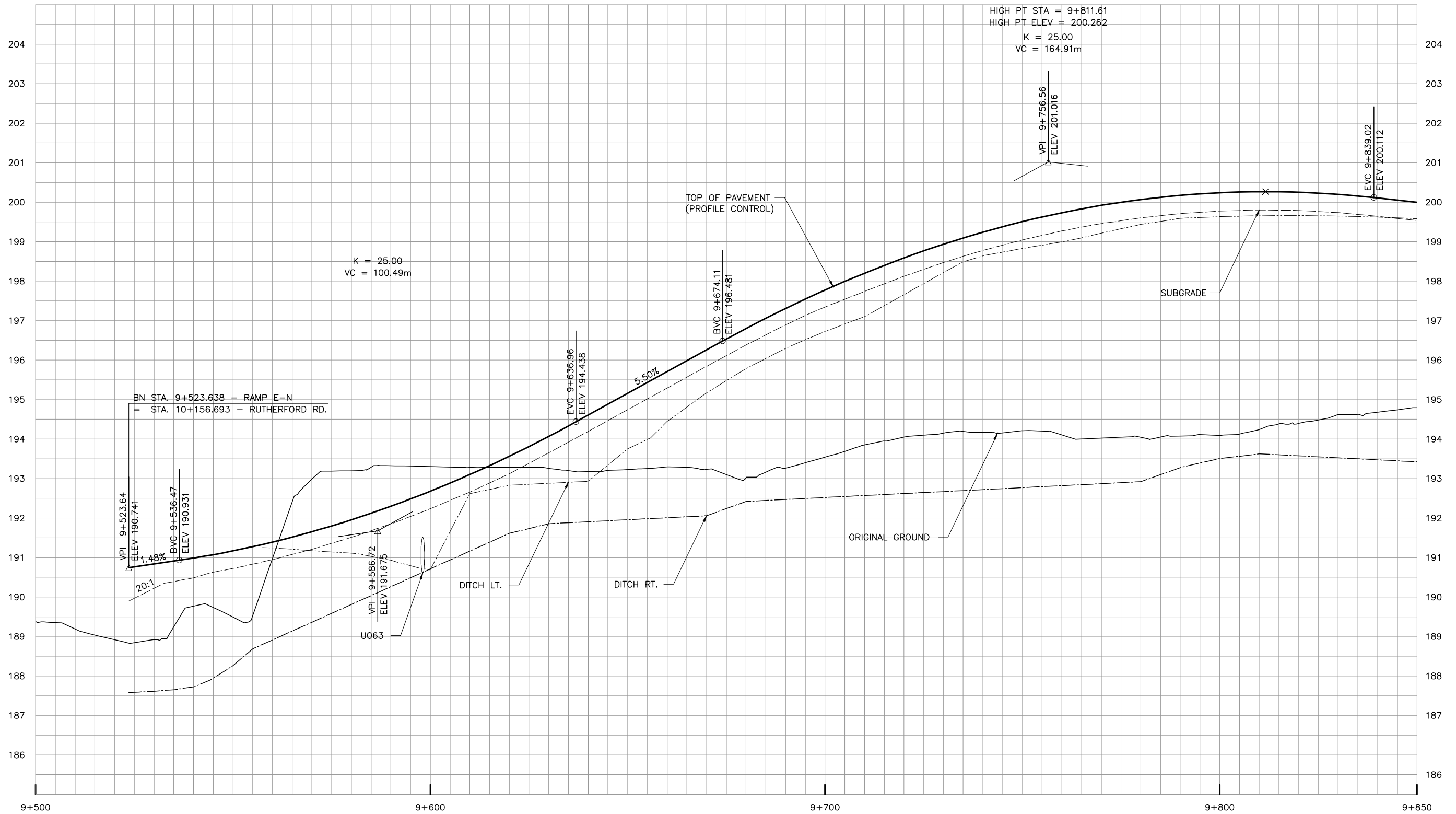


DESIGNED	IMRAN AHMAD	
DRAWN	EDDY LEUNG	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENG.	JONATHAN MOHACSI	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

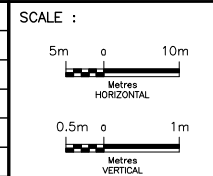


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 10+175 TO STA. 10+392.55							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0051	C

RUTHERFORD E-N RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

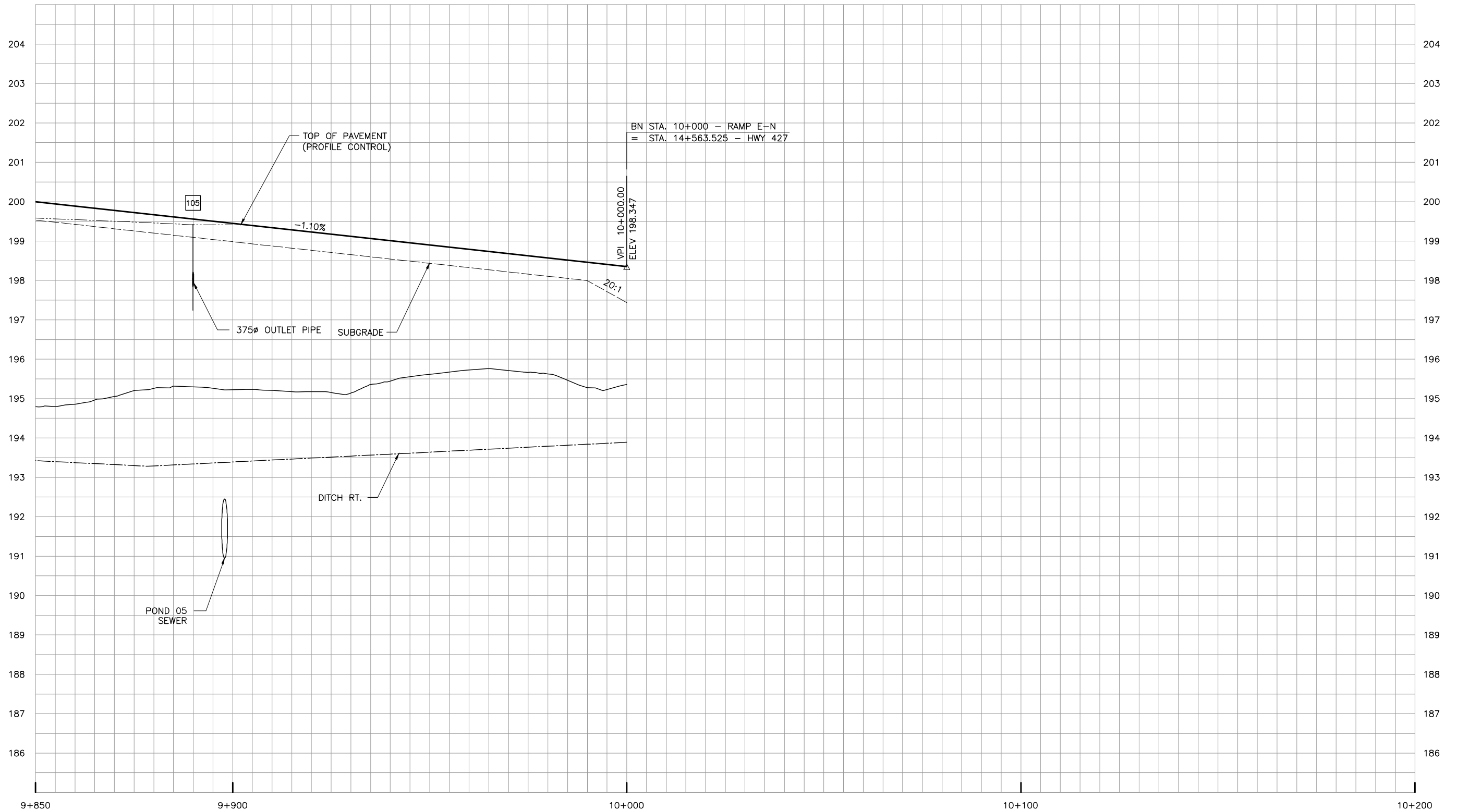


DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	
INIT.	
DATE	



TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+510.75 TO STA. 9+850							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0052	C

RUTHERFORD E-N RAMP



BN STA: 10+000 - RAMP E-N
= STA. 14+563.525 - HWY 427

VPI 10+000.00
ELEV 198.347

TOP OF PAVEMENT
(PROFILE CONTROL)

-1.10%

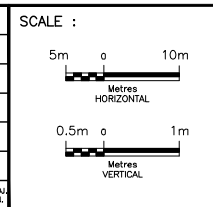
20:1

375Ø OUTLET PIPE SUBGRADE

DITCH RT.

POND 05
SEWER

NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

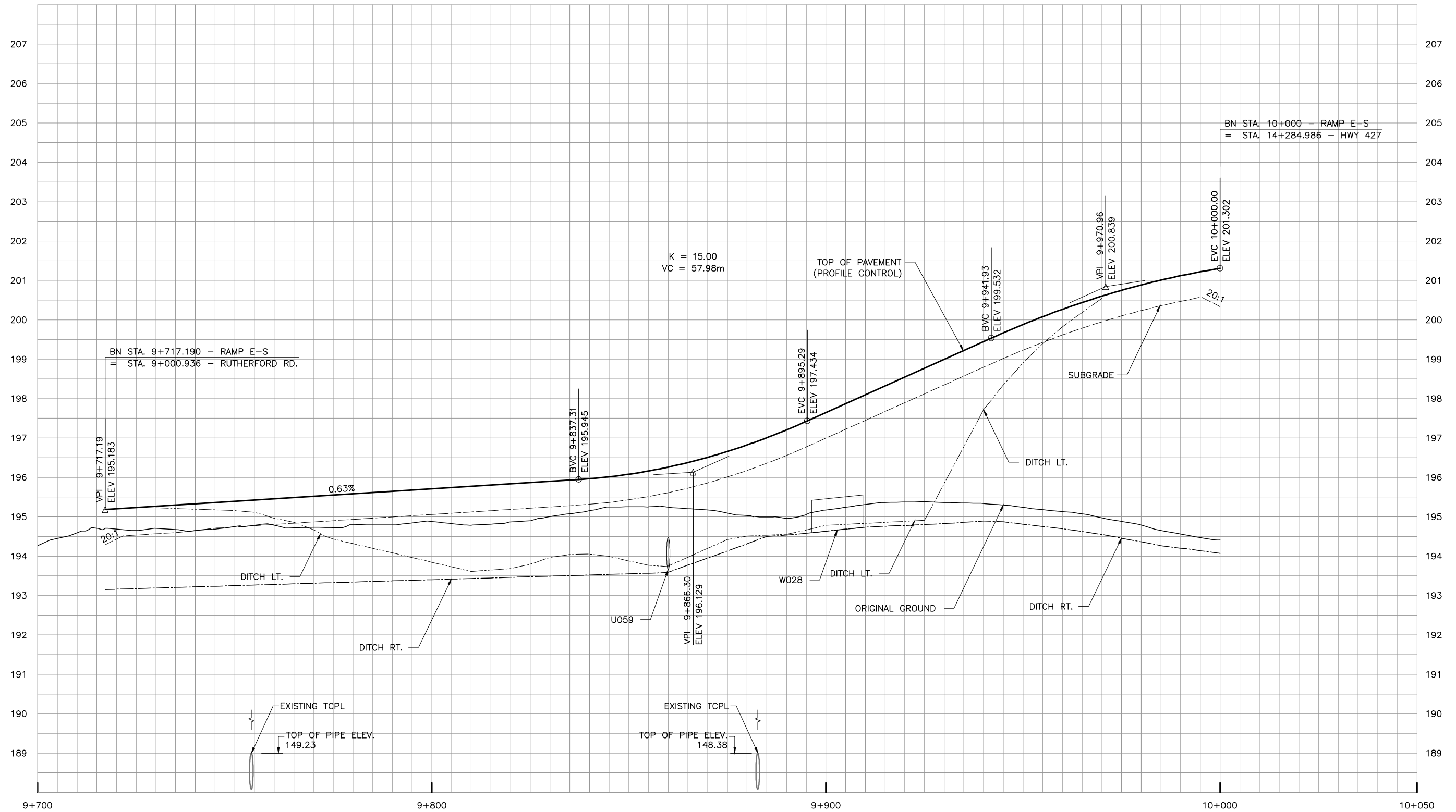


DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	
INIT.	
DATE	

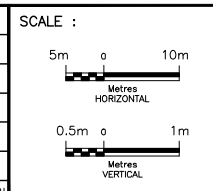


TITLE							
HWY 427 EXPANSION							
PROFILE STA. 9+850 TO STA. 10+000							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0053	C

RUTHERFORD E-S RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

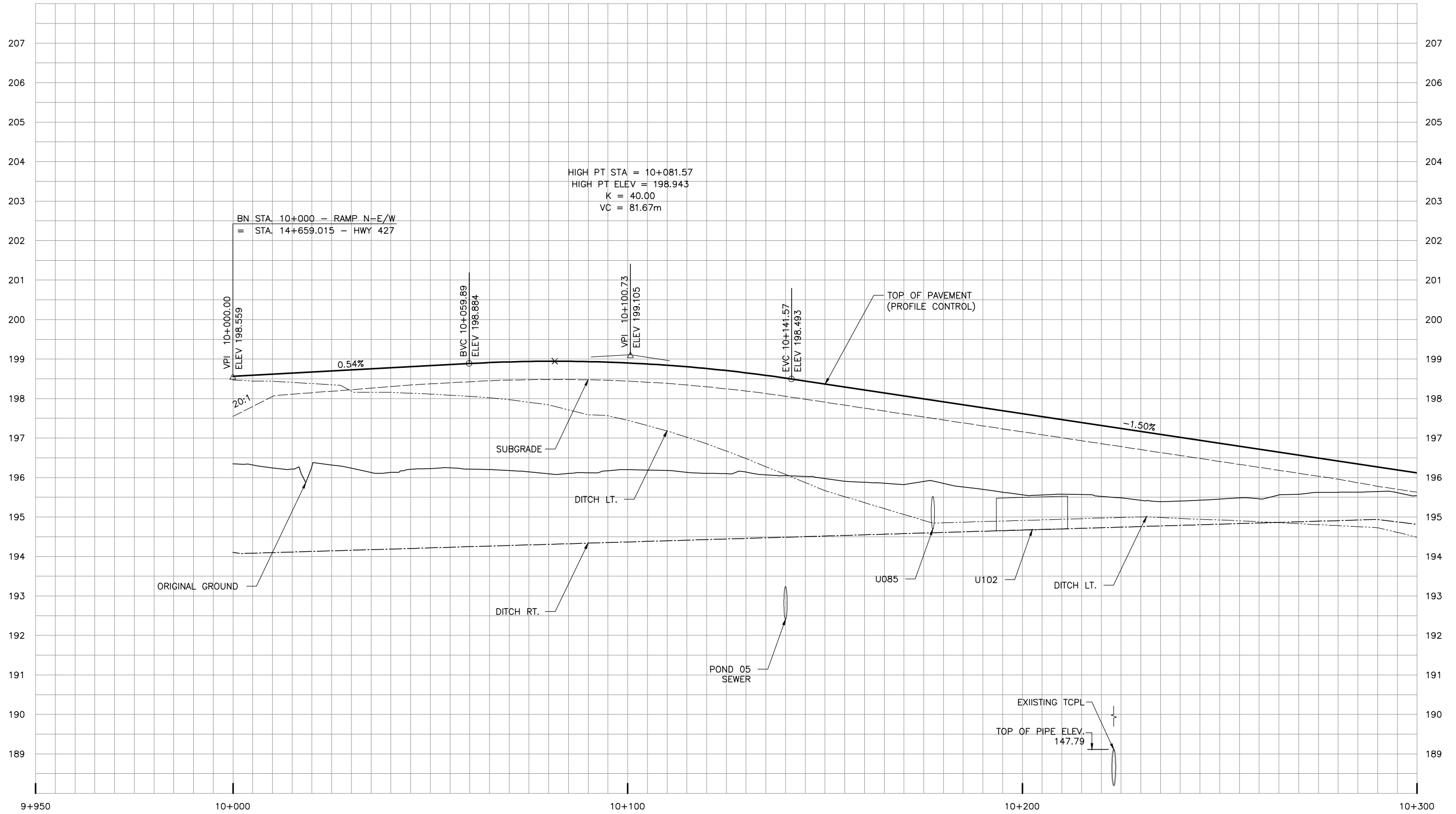


DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	
INIT.	
DATE	

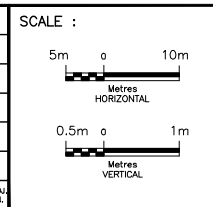


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+700 TO STA. 10+025							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0054	C

RUTHERFORD N-E/W RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



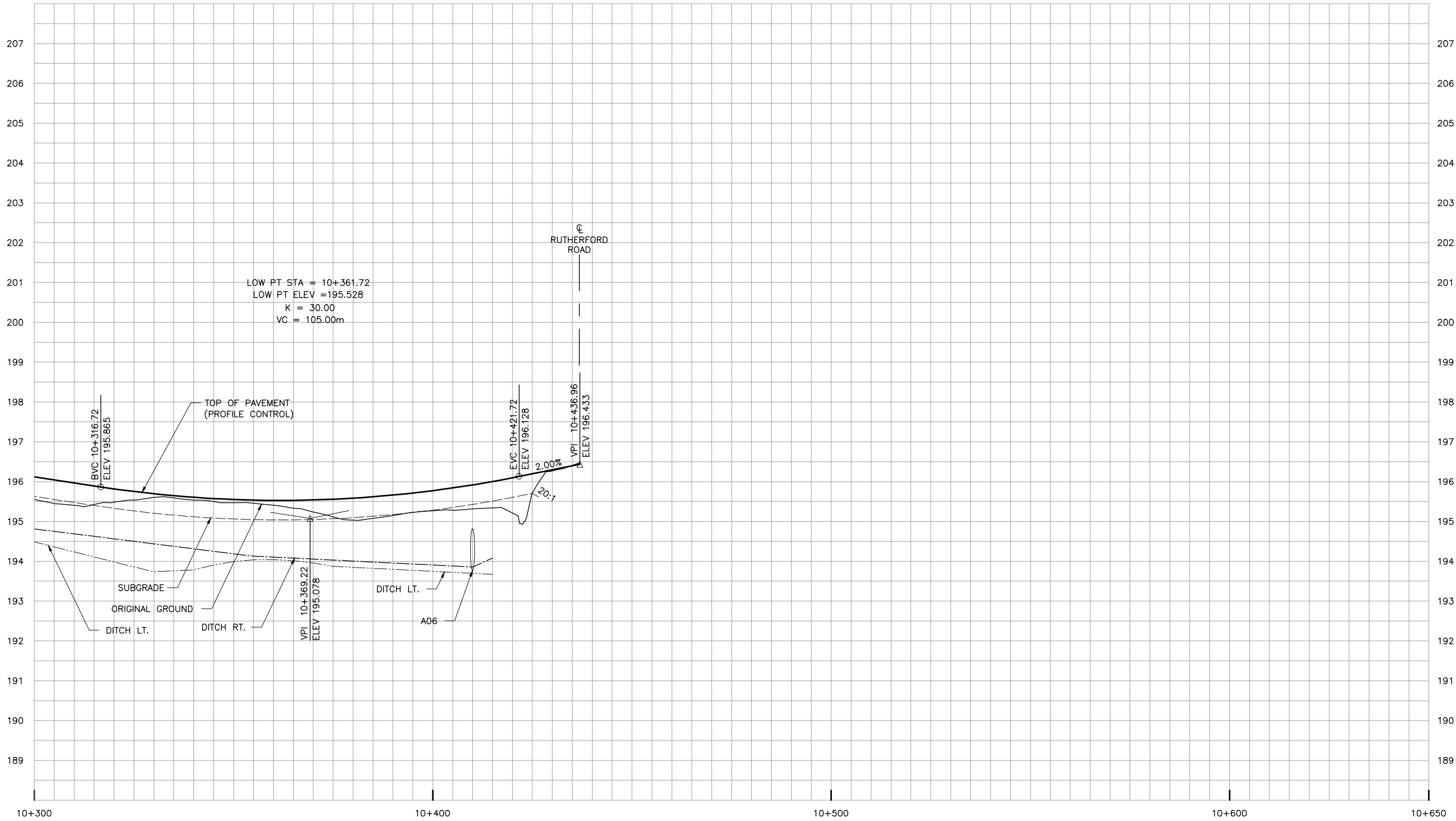
DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	INIT. DATE

CONSULTANT	DESIGNED	IMRAN AHMAD
	DRAWN	EDDY LEUNG
	CHECKED	DUNCAN CAMPBELL
	APPROVED LEAD ENG.	JONATHAN MOHACSI
	APPROVED PROJ. MANAGER	PETER BAMFORTH
	NAME (PRINT)	INIT. DATE

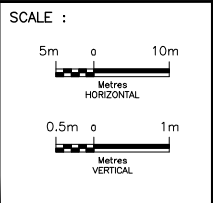


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+996.41 TO STA. 10+300							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0055	C

RUTHERFORD N-E/W RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

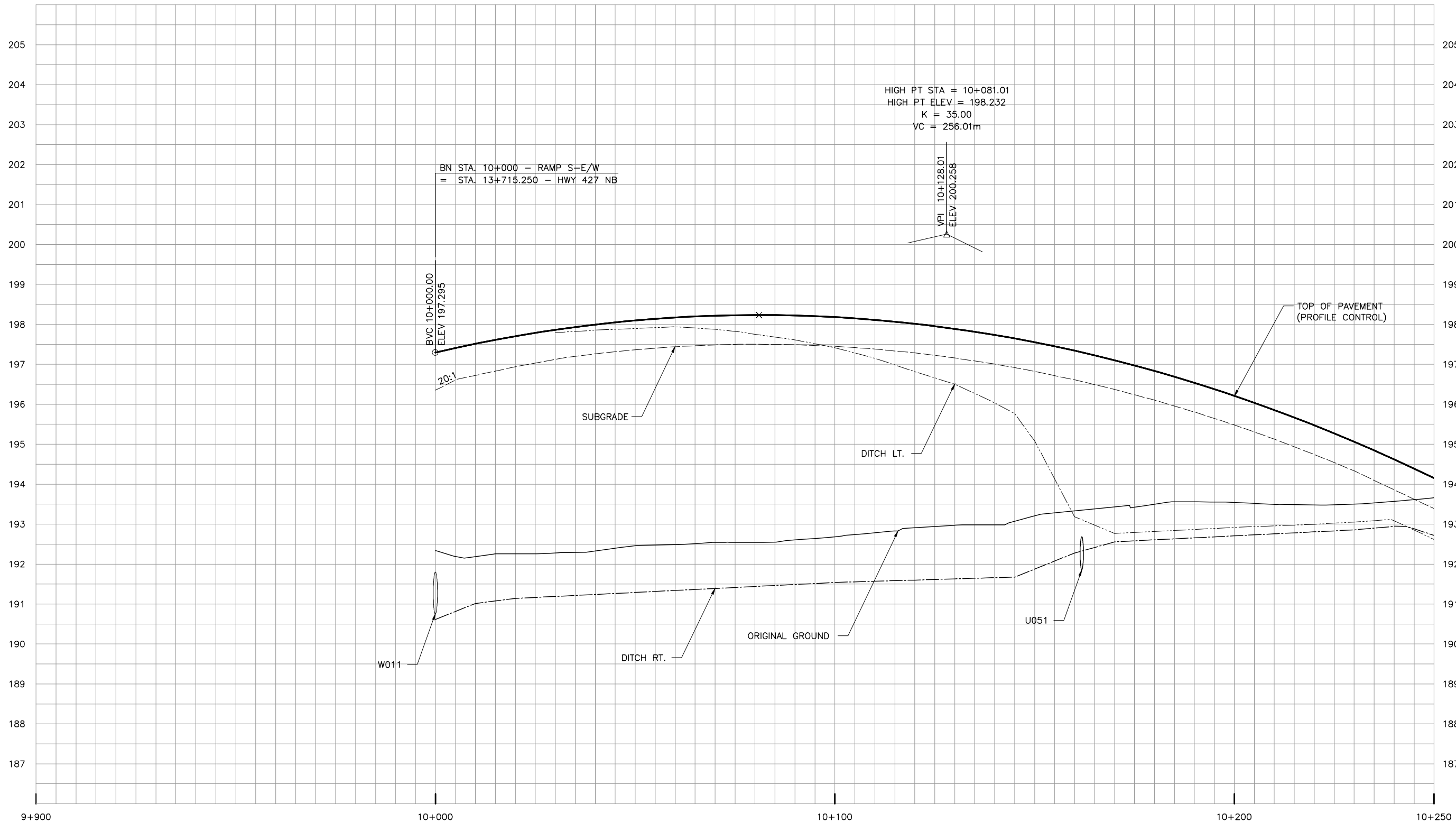


DESIGNED	IMRAN AHMAD		
DRAWN	EDDY LEUNG		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
DATE			

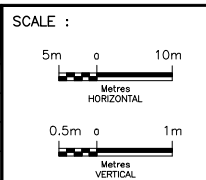


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 10+300 TO STA. 10+436.80							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0056	C

RUTHERFORD S-E/W RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

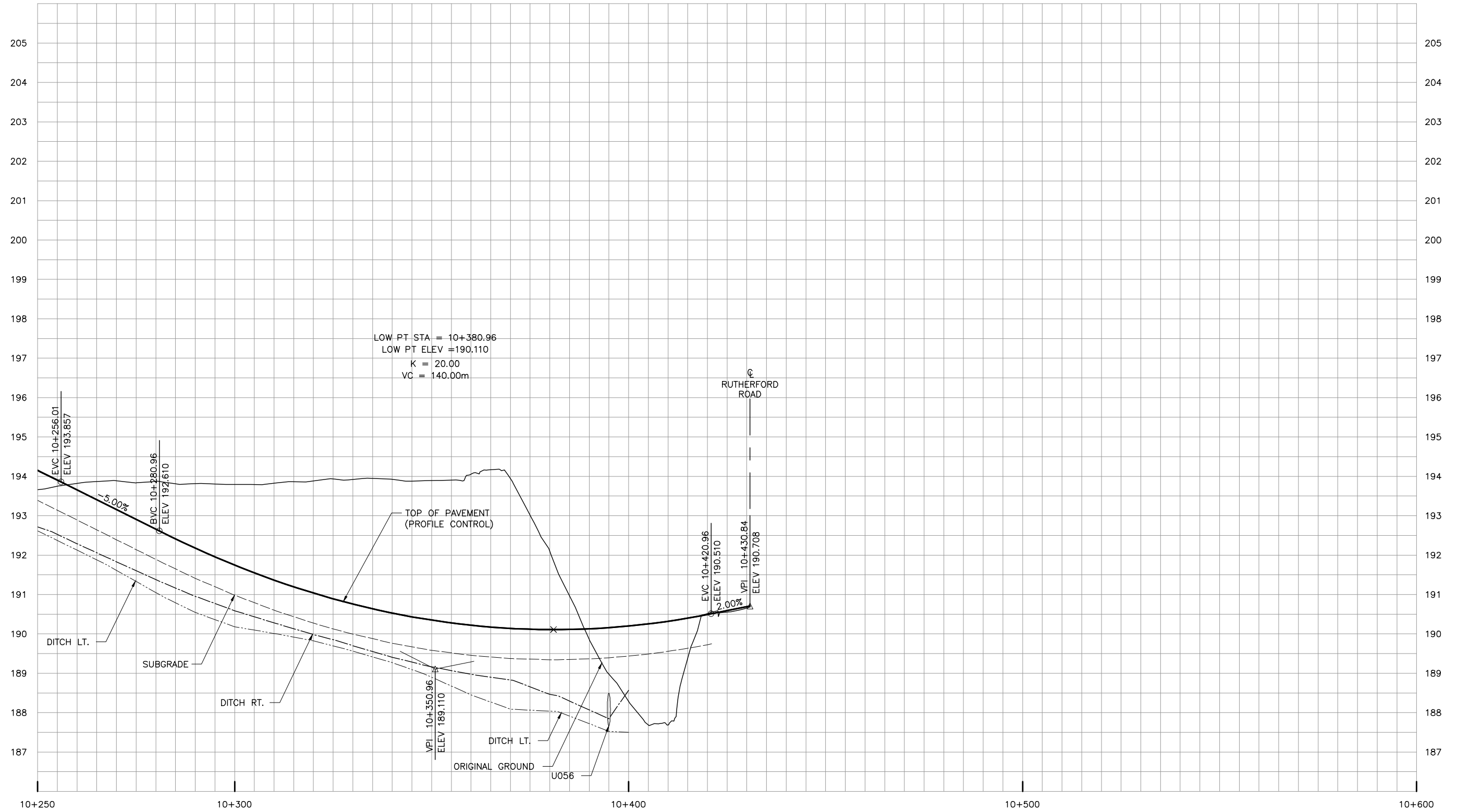


DESIGNED	IMRAN AHMAD		
DRAWN	EDDY LEUNG		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
		DATE	

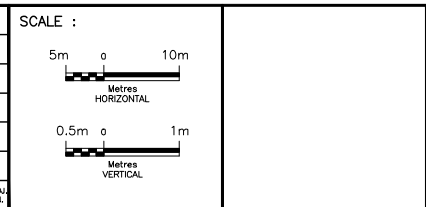


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+992.63 TO STA. 10+250							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0057	C

RUTHERFORD S-E/W RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

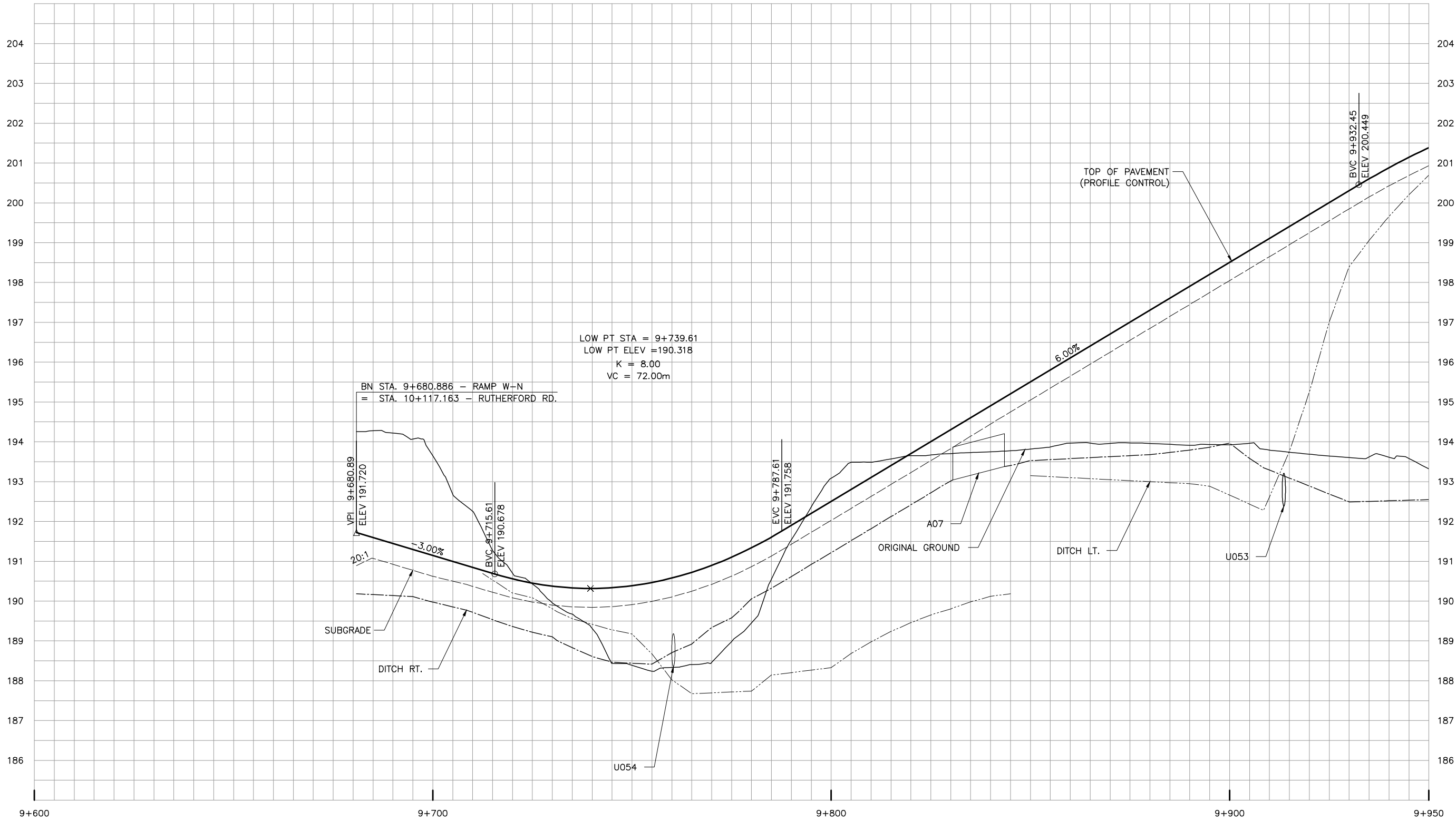


DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MGR.	PETER BAMFORTH
NAME (PRINT)	
INIT.	
DATE	

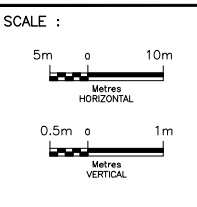


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 10+250 TO STA. 10+430.84							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0058	C

RUTHERFORD W-N RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	
INIT.	
DATE	

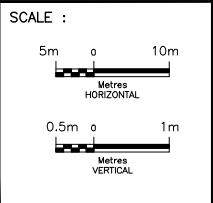


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+674.12 TO STA. 9+950							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0059	C

RUTHERFORD W-N RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

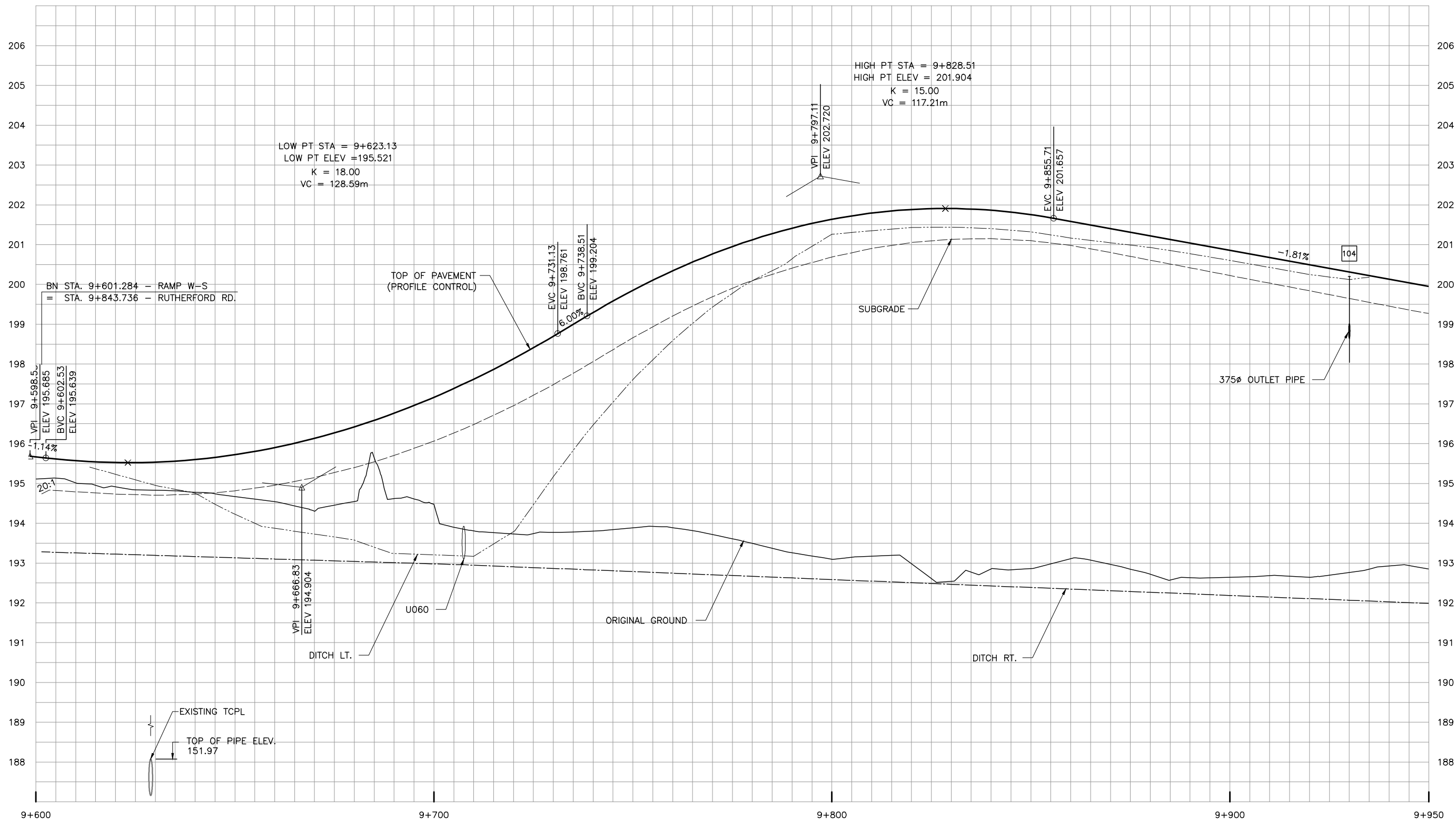


DESIGNED	IMRAN AHMAD				
DRAWN	EDDY LEUNG				
CHECKED	DUNCAN CAMPBELL				
APPROVED LEAD ENG.	JONATHAN MOHACSI				
APPROVED PROJ. MANAGER	PETER BAMFORTH				
NAME (PRINT)		INIT.		DATE	

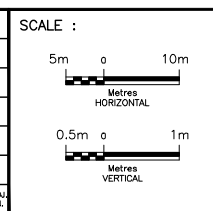


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+950 TO STA. 10+008.09							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0060	C

RUTHERFORD W-S RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



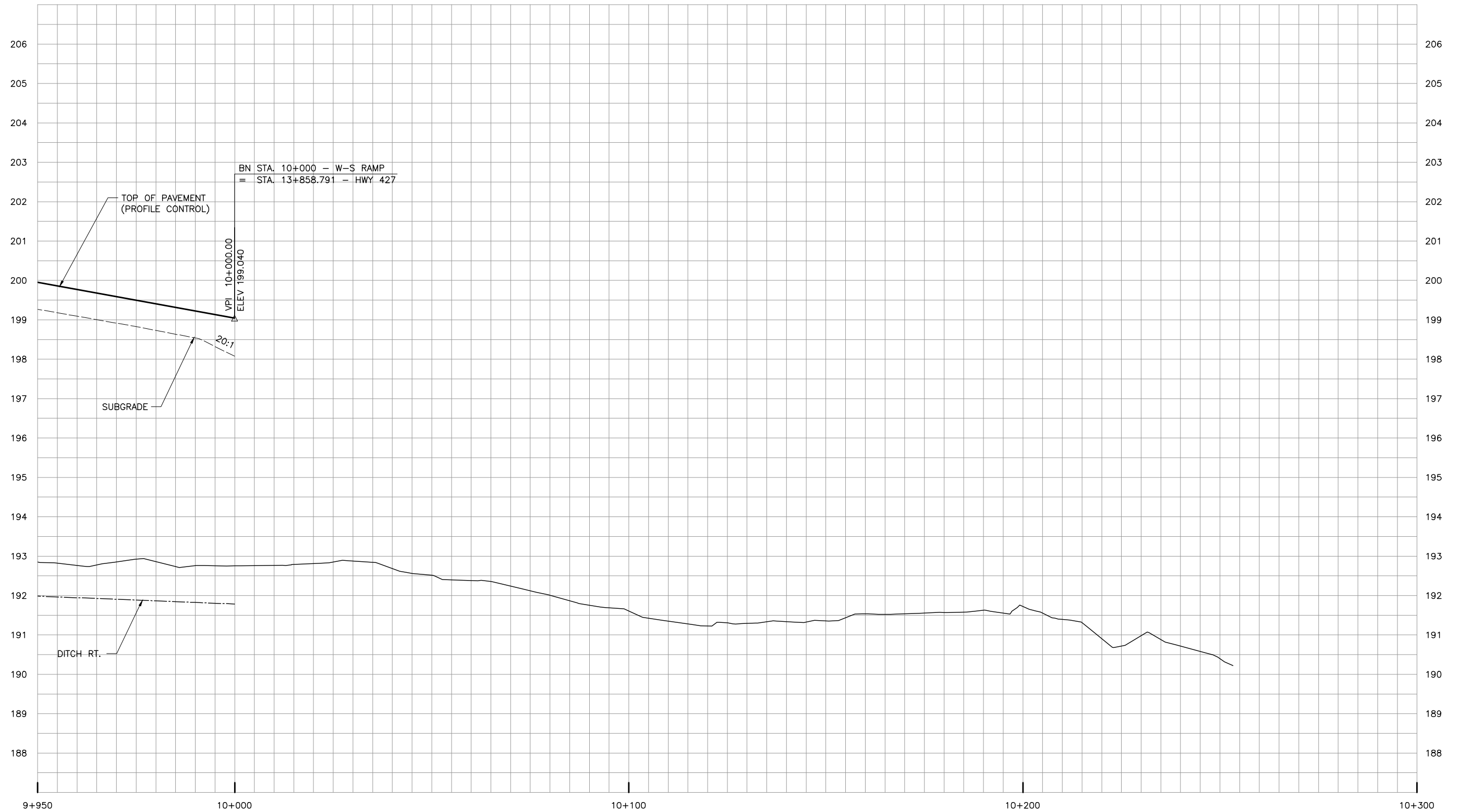
DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	INIT. DATE

CONSULTANT	
DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	INIT. DATE

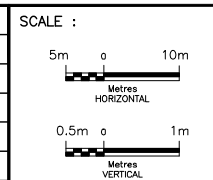


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+600.78 TO STA. 9+950							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0061	C

RUTHERFORD W-S RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

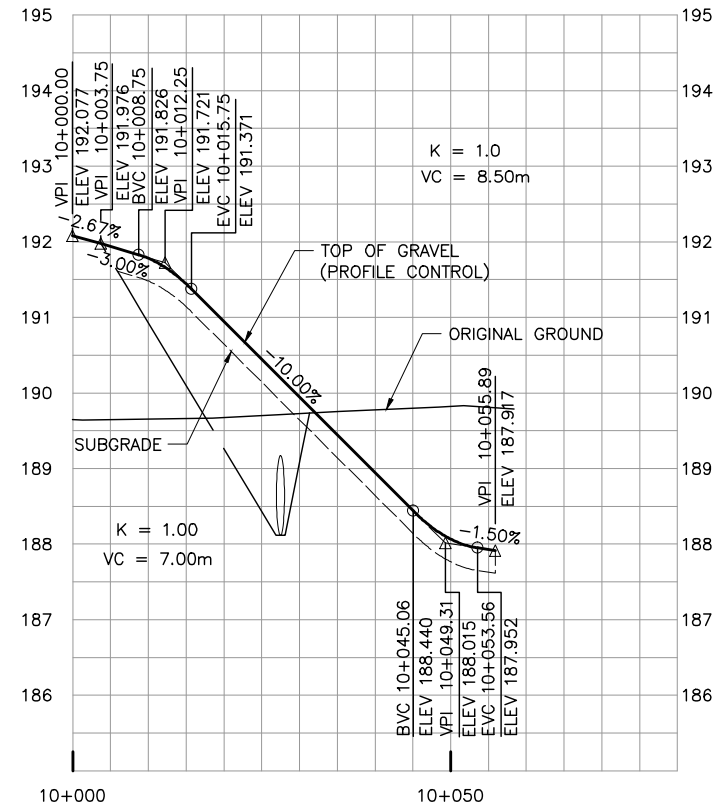


DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	
INIT.	
DATE	

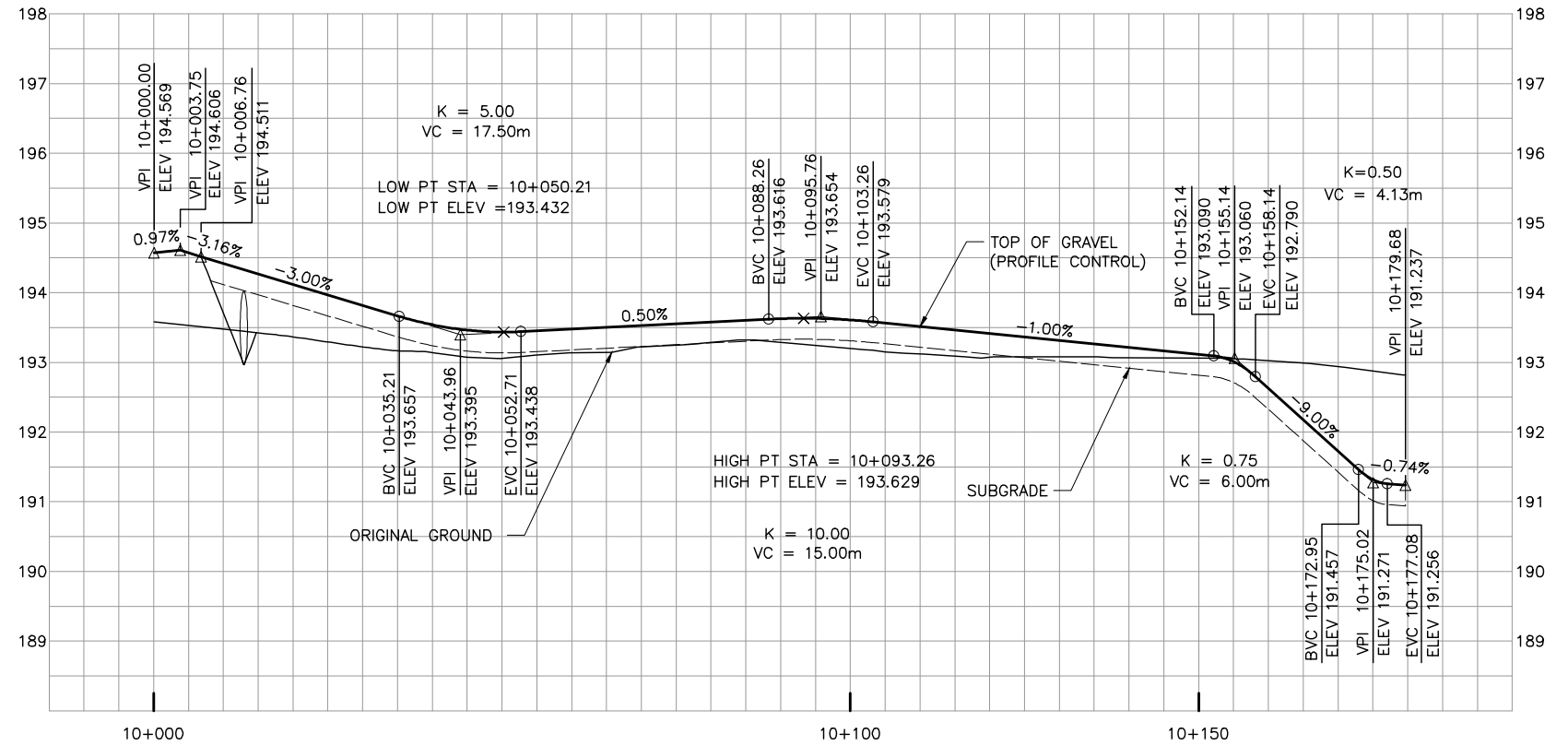


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+950 TO STA. 10+008.30							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0062	C

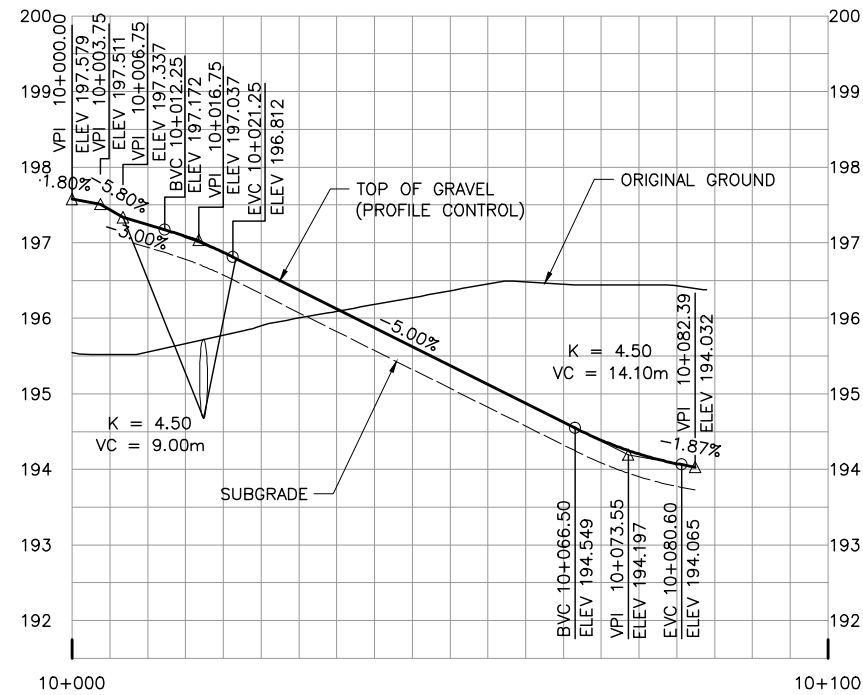
POND 3 ACCESS ROAD



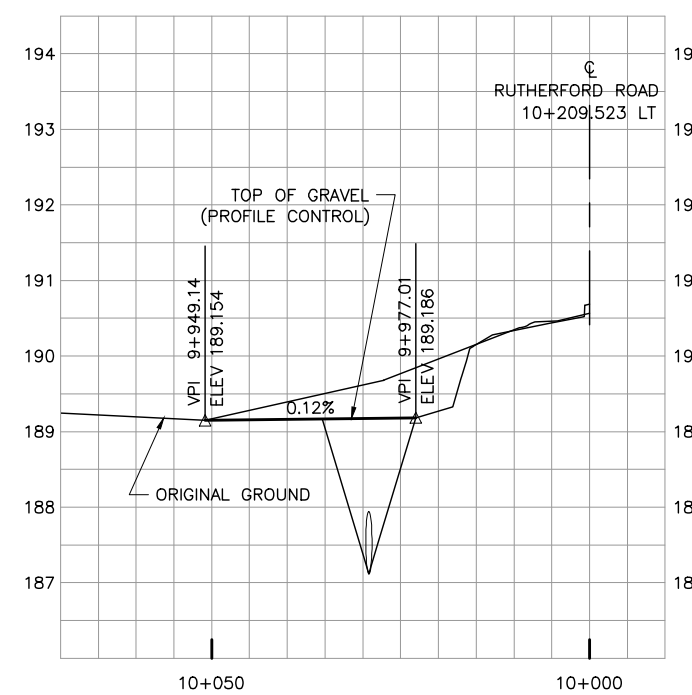
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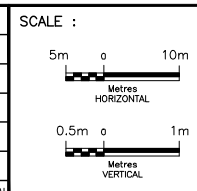
POND 5 ACCESS ROAD



McGILLIVARY ROAD



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
					DISC.	MAN.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

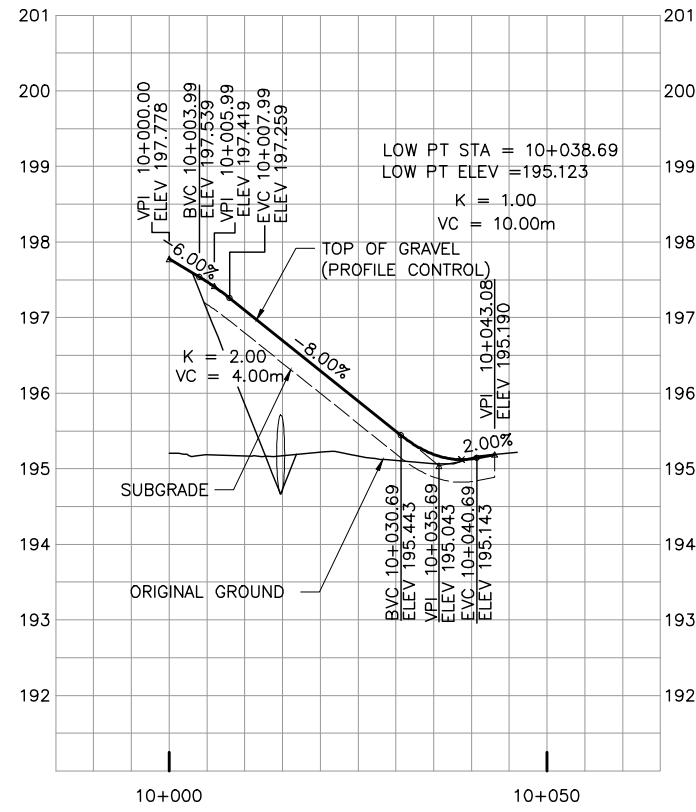


DESIGNED	IMRAN AHMAD	
DRAWN	EDDY LEUNG	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENG.	JONATHAN MOHACSI	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
NAME (PRINT)	INIT.	DATE

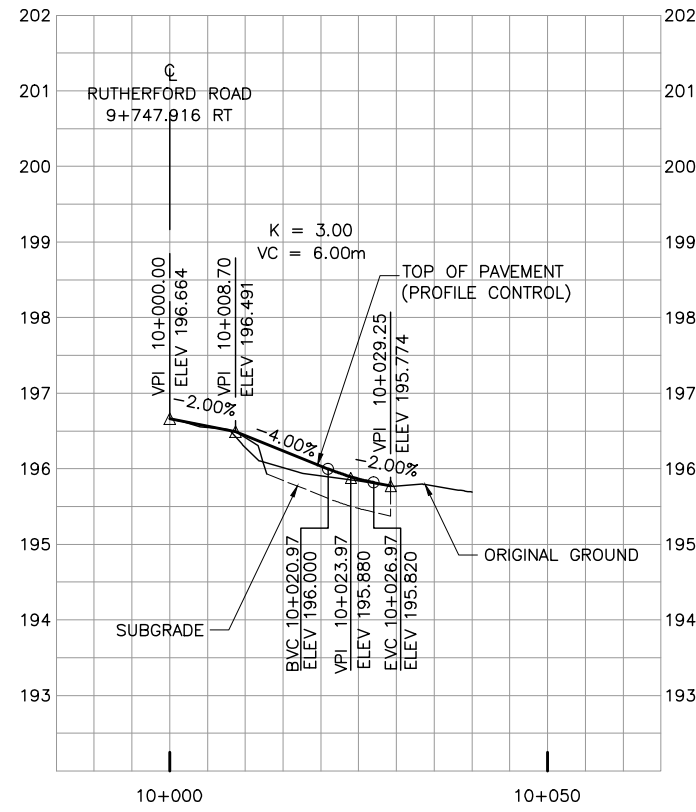


TITLE							
HWY 427 EXPANSION							
ACCESS ROAD PROFILES							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0063	C

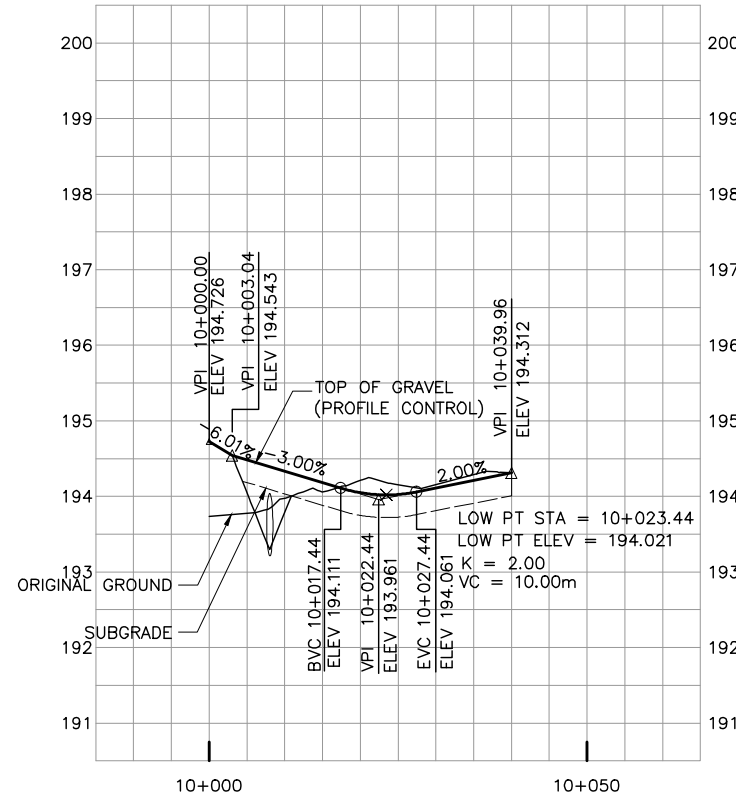
ACCESS ROAD FOR HMLP 128



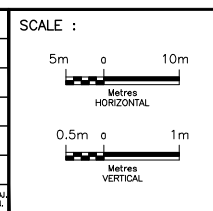
HYDRO ACCESS ROAD



ACCESS ROAD FOR HMLP 129



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
					DISC.	MAN.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



DESIGNED	IMRAN AHMAD		
DRAWN	EDDY LEUNG		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	



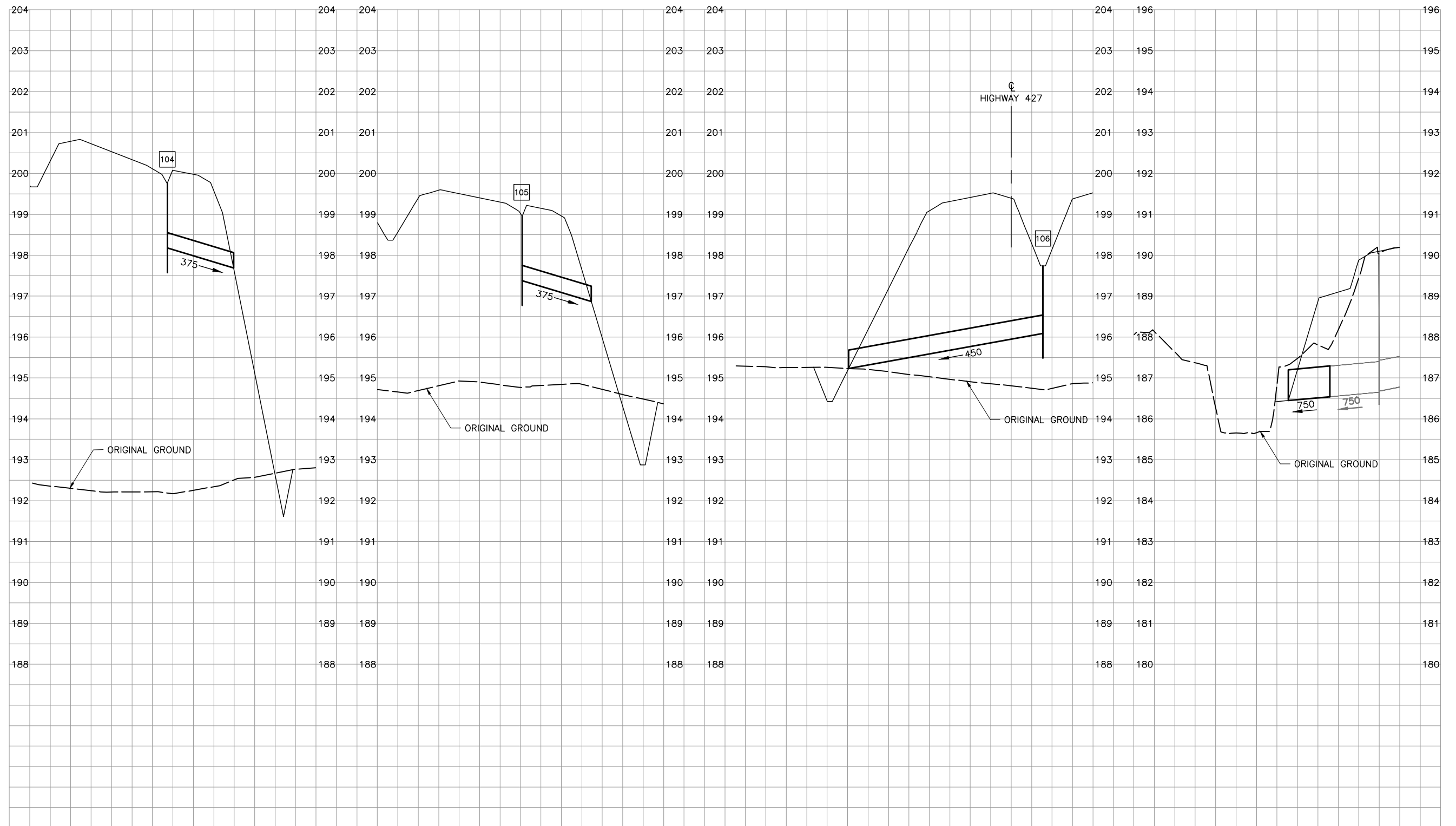
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HWY 427 EXPANSION							
ACCESS ROAD PROFILES							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0064	C

W-S RAMP STA. 9+930

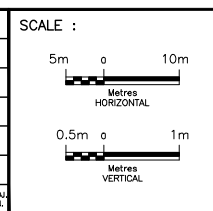
E-N RAMP STA. 9+890

HIGHWAY 427 STA. 14+460

RUTHERFORD ROAD STA. 10+247



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	INIT. DATE

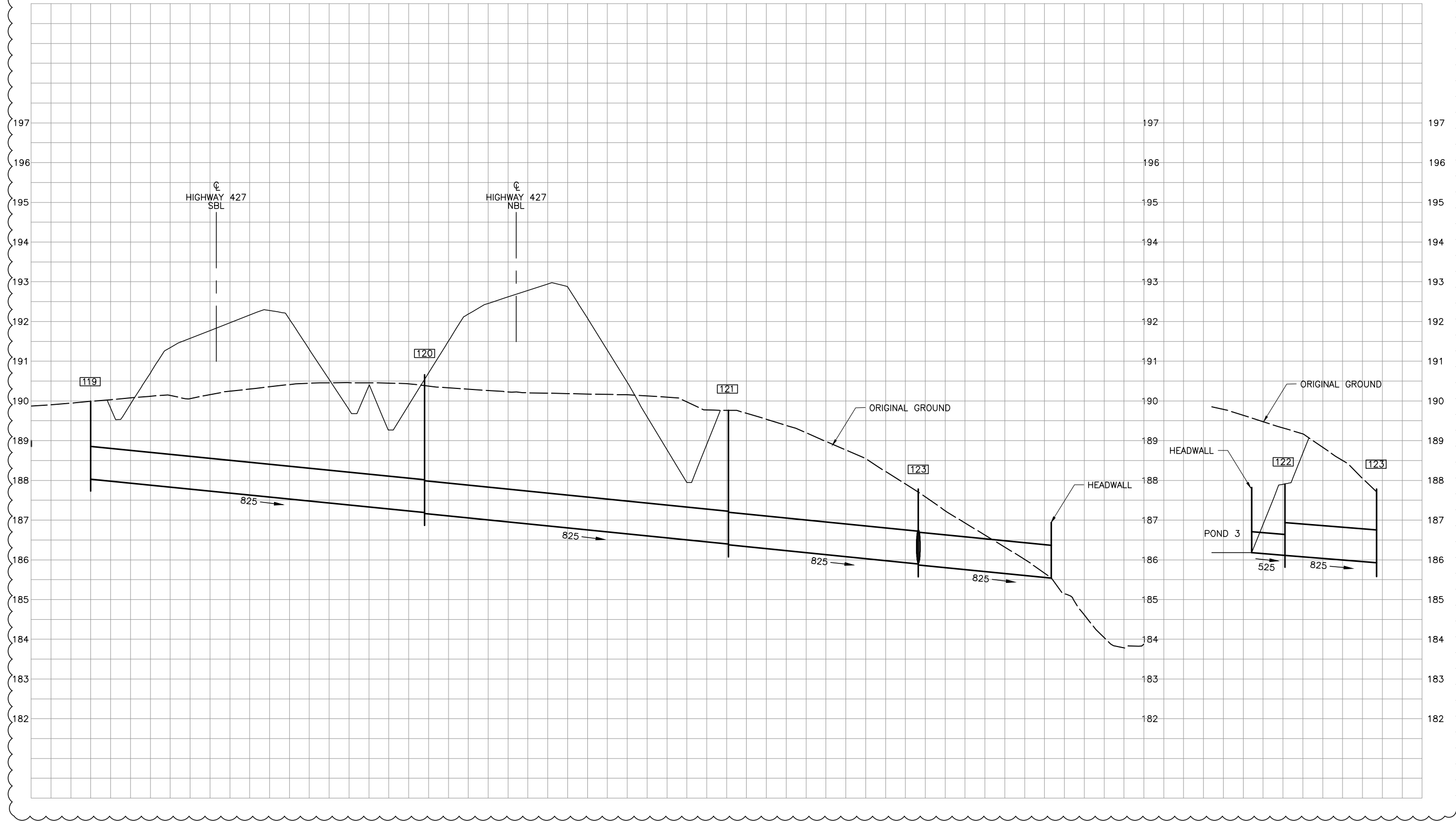
CONSULTANT	
DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENG.	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	INIT. DATE



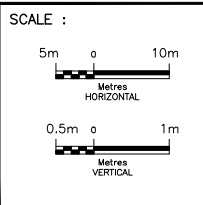
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HWY 427 EXPANSION							
DRAINAGE PROFILES							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0065	C

POND 3 BYPASS OUTLET

POND 3 OUTLET



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

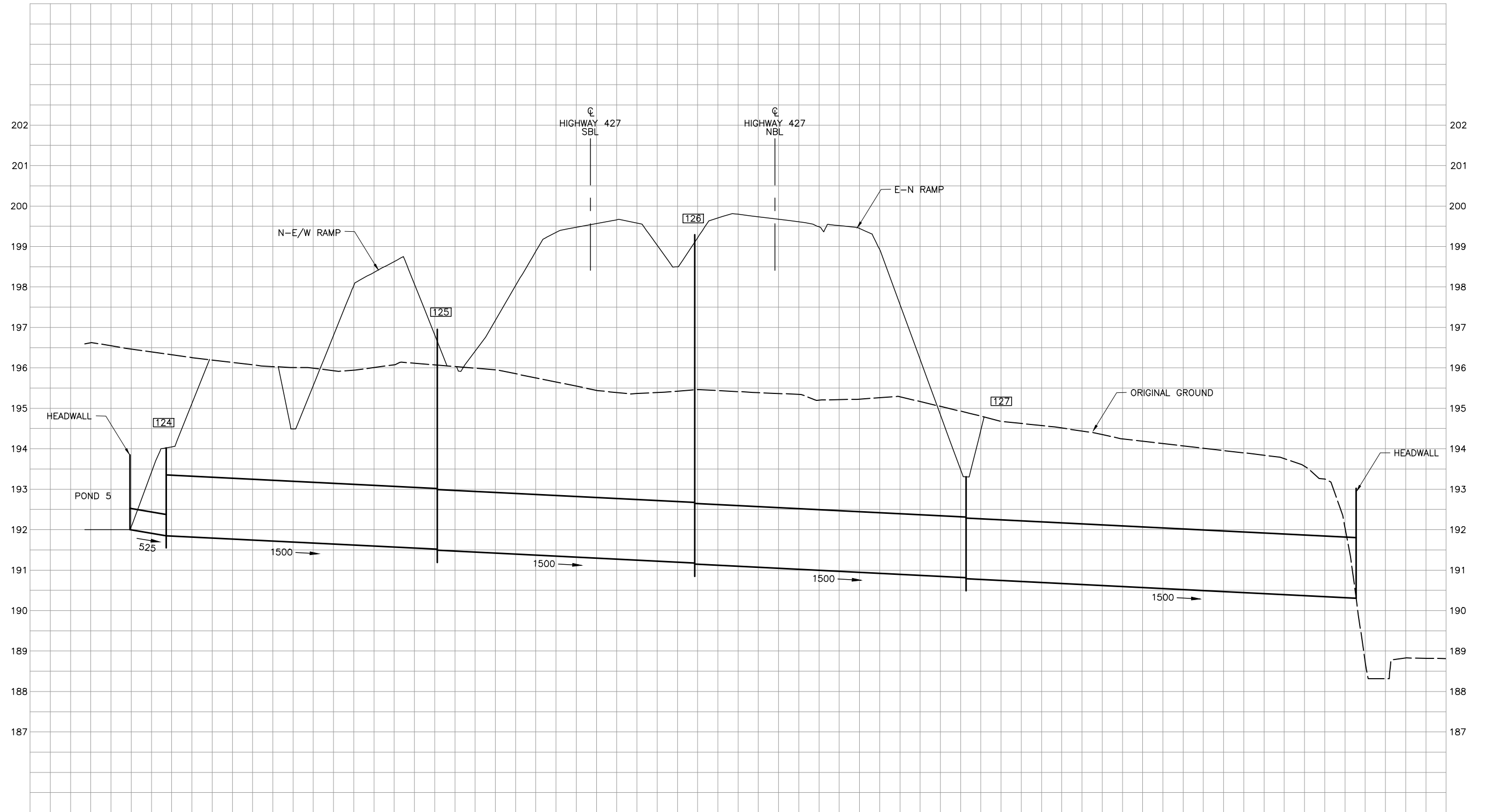


DESIGNED	IMRAN AHMAD		
DRAWN	EDDY LEUNG		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	DATE

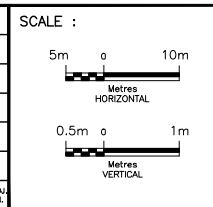


TITLE HWY 427 EXPANSION DRAINAGE PROFILES								
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER	
H427-D	N	2	HWY	000	DWG	0066	C	

POND 5 OUTLET



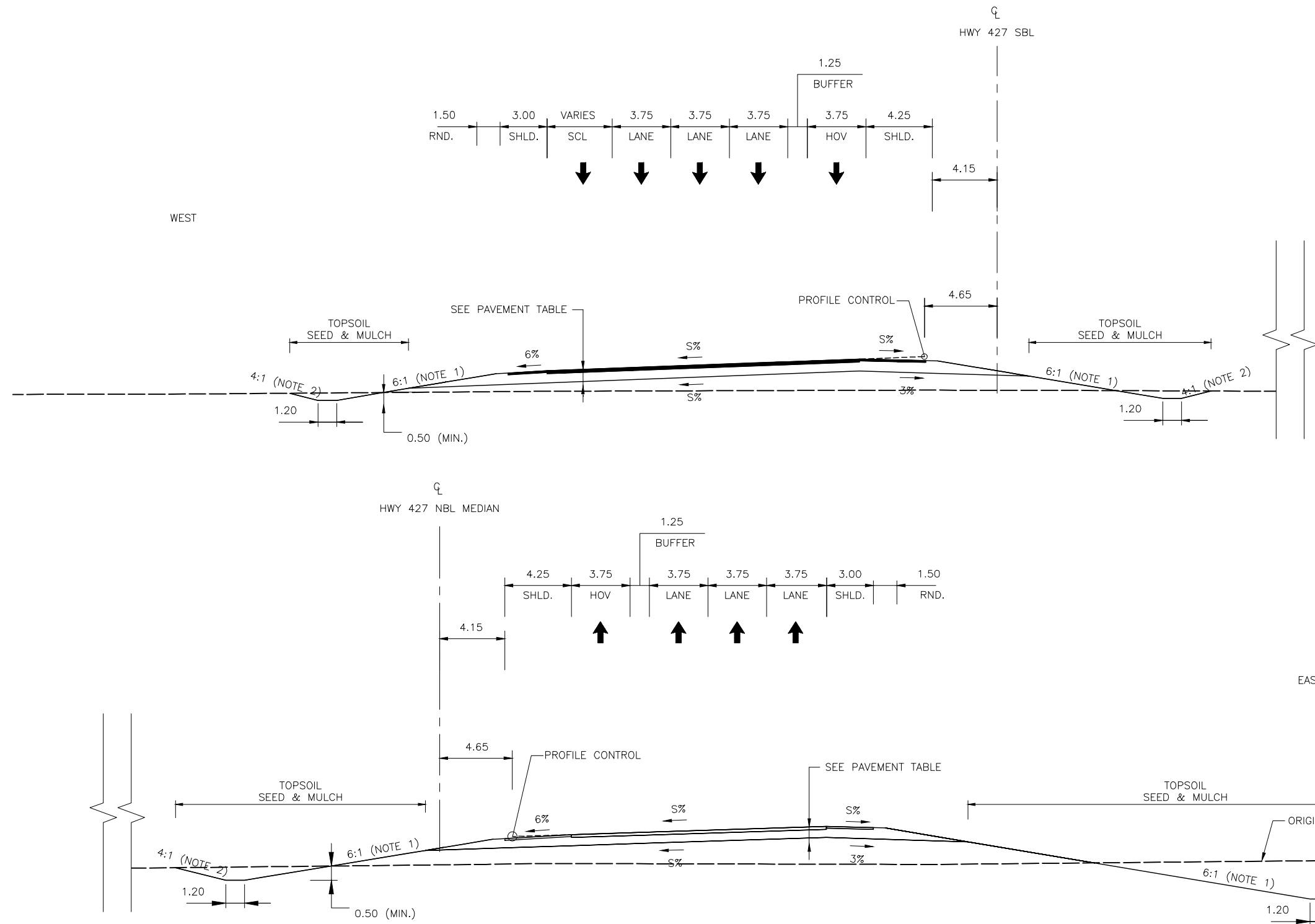
NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



DESIGNED	IMRAN AHMAD		
DRAWN	EDDY LEUNG		
CHECKED	DUNCAN CAMPBELL		
APPROVED LEAD ENG.	JONATHAN MOHACSI		
APPROVED PROJ. MANAGER	PETER BAMFORTH		
NAME (PRINT)		INIT.	
		DATE	



TITLE							
HWY 427 EXPANSION DRAINAGE PROFILES							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0067	C



- NOTES:
1. FORESLOPE:
WHERE $h < 3m$, SLOPE SHALL BE 6:1
WHERE $3 < h < 4.5$, SLOPE SHALL BE 5:1
WHERE $4.5 < h < 6$, SLOPE SHALL BE 4:1
WHERE $h > 6$, SLOPE SHALL BE 2:1
WITH 2m BENCHING EVERY 6m IN HEIGHT
 2. BACKSLOPE:
WHERE $H < 1$, SLOPE SHALL BE 4:1
WHERE $1 < H < 3$, SLOPE SHALL BE 3:1
WHERE $H > 3$, SLOPE SHALL BE 2:1
WITH 2m BENCHING EVERY 6m IN HEIGHT
 3. GRANULAR SEALING TO BE APPLIED PER OPSD 210.070
 4. SHOULDER RUMBLE STRIPS TO BE CONSTRUCTED PER MTD 503 SERIES
 5. SBGR AS PER FUTURE PACKAGE
 6. EROSION CONTROL BLANKET SHALL BE USED ON SLOPES STEEPER THAN 3:1

SUPERELEVATION RATES, S%													
PAVEMENT	+6	+5	+4	+3	+2	+1	0	-1	-2	-3	-4	-5	-6
SHOULDER	-2	-2	-2	-3	-3	-3	-4	-5	-6	-6	-6	-6	-6

HWY 427 - 8 LANE EXTENSION - HYDRO CORRIDOR
 STA 12+940 - 13+840 (NB)
 STA 12+930 - 13+827 (SB)

NO.	DATE	REVISIONS	BY	CHK	LEAD. DESIG.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

SCALE :
N.T.S

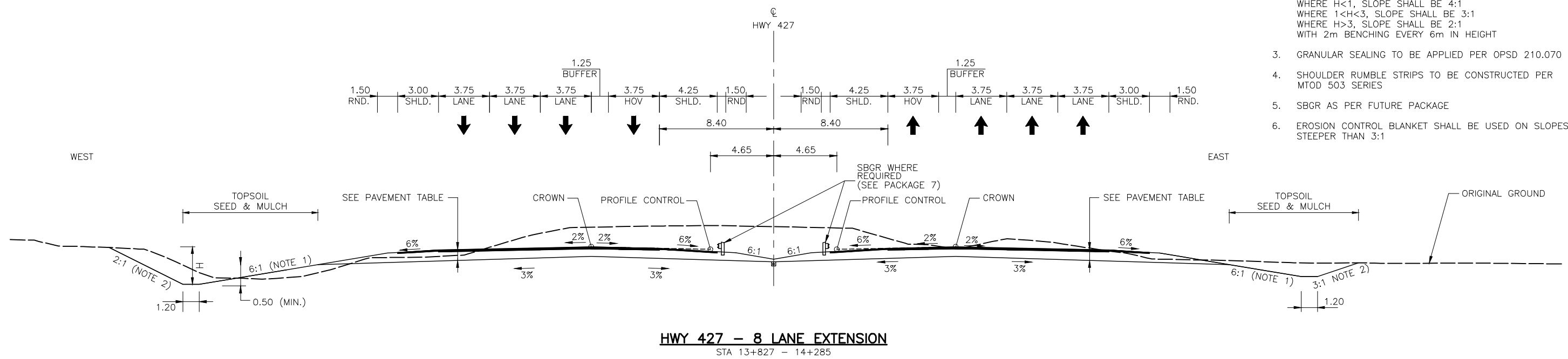
DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENGINEER	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
CONSULTANT	
NAME (PRINT)	
INIT.	
DATE	



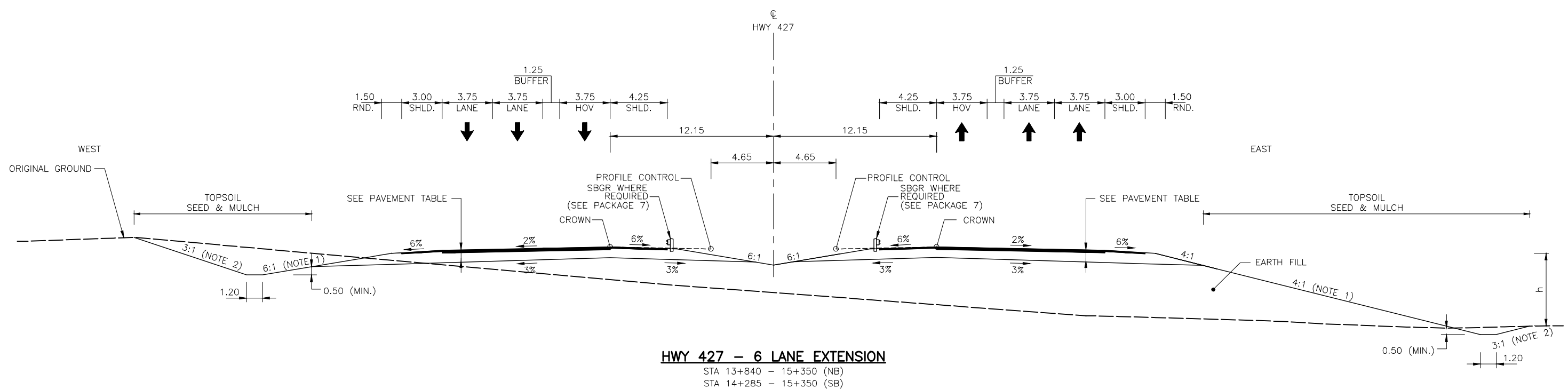
TITLE							
HWY 427 EXPANSION							
TYPICAL SECTIONS HIGHWAY 427 MAINLINE							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0068	C

SUPERELEVATION RATES, S%													
PAVEMENT	+6	+5	+4	+3	+2	+1	0	-1	-2	-3	-4	-5	-6
SHOULDER	-2	-2	-2	-3	-3	-3	-4	-5	-6	-6	-6	-6	-6

- NOTES:
- FORESLOPE:
WHERE $h < 3m$, SLOPE SHALL BE 6:1
WHERE $3 < h < 4.5$, SLOPE SHALL BE 5:1
WHERE $4.5 < h < 6$, SLOPE SHALL BE 4:1
WHERE $h > 6$, SLOPE SHALL BE 2:1
WITH 2m BENCHING EVERY 6m IN HEIGHT
 - BACKSLOPE:
WHERE $H < 1$, SLOPE SHALL BE 4:1
WHERE $1 < H < 3$, SLOPE SHALL BE 3:1
WHERE $H > 3$, SLOPE SHALL BE 2:1
WITH 2m BENCHING EVERY 6m IN HEIGHT
 - GRANULAR SEALING TO BE APPLIED PER OPSD 210.070
 - SHOULDER RUMBLE STRIPS TO BE CONSTRUCTED PER MTD 503 SERIES
 - SBGR AS PER FUTURE PACKAGE
 - EROSION CONTROL BLANKET SHALL BE USED ON SLOPES STEEPER THAN 3:1



HWY 427 - 8 LANE EXTENSION
STA 13+827 - 14+285



HWY 427 - 6 LANE EXTENSION
STA 13+840 - 15+350 (NB)
STA 14+285 - 15+350 (SB)

NO.	DATE	REVISIONS	BY	CHK	LEAD. ENGR.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

SCALE :

N.T.S

DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENGINEER	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
CONSULTANT	
NAME (PRINT)	INT. DATE

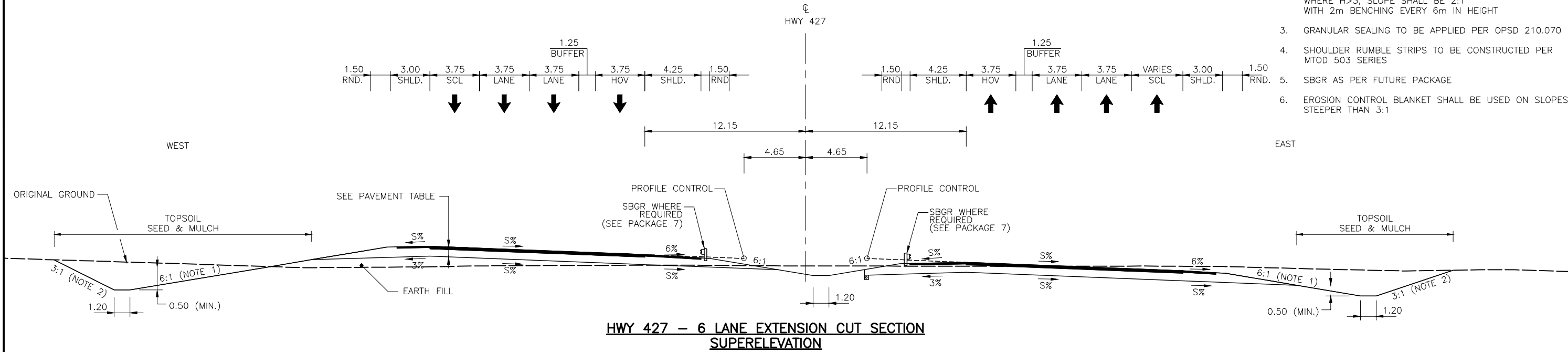


HWY 427 EXPANSION							
TYPICAL SECTIONS HIGHWAY 427 MAINLINE							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0069	C

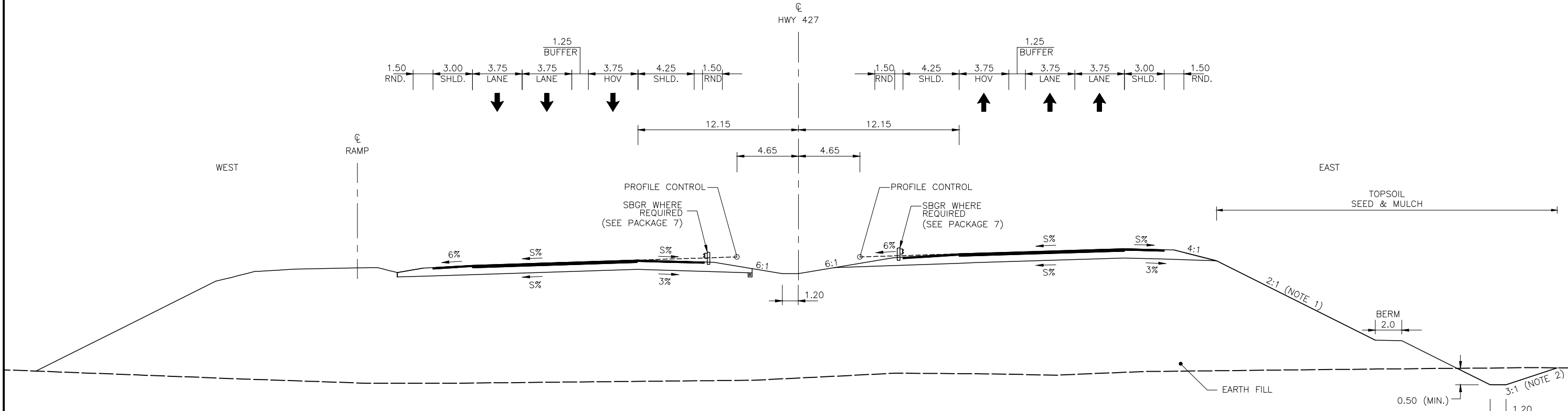
SUPERELEVATION RATES, S%													
PAVEMENT	+6	+5	+4	+3	+2	+1	0	-1	-2	-3	-4	-5	-6
SHOULDER	-2	-2	-2	-3	-3	-3	-4	-5	-6	-6	-6	-6	-6

NOTES:

- FORESLOPE:
WHERE $h < 3m$, SLOPE SHALL BE 6:1
WHERE $3 < h < 4.5$, SLOPE SHALL BE 5:1
WHERE $4.5 < h < 6$, SLOPE SHALL BE 4:1
WHERE $h > 6$, SLOPE SHALL BE 2:1
WITH 2m BENCHING EVERY 6m IN HEIGHT
- BACKSLOPE:
WHERE $H < 1$, SLOPE SHALL BE 4:1
WHERE $1 < H < 3$, SLOPE SHALL BE 3:1
WHERE $H > 3$, SLOPE SHALL BE 2:1
WITH 2m BENCHING EVERY 6m IN HEIGHT
- GRANULAR SEALING TO BE APPLIED PER OPSD 210.070
- SHOULDER RUMBLE STRIPS TO BE CONSTRUCTED PER MTD 503 SERIES
- SBGR AS PER FUTURE PACKAGE
- EROSION CONTROL BLANKET SHALL BE USED ON SLOPES STEEPER THAN 3:1



HWY 427 - 6 LANE EXTENSION CUT SECTION SUPERELEVATION



HWY 427 - 6 LANE EXTENSION FILL SECTION SUPERELEVATION

NO.	DATE	REVISIONS	BY	CHK	LEAD. ENG.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

SCALE :

N.T.S

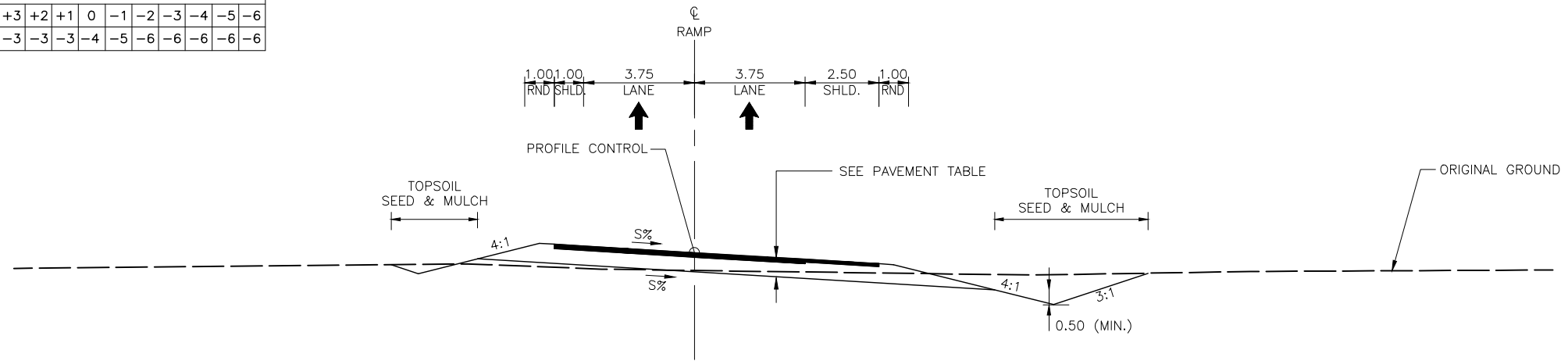
DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENGINEER	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
CONSULTANT	
NAME (PRINT)	INIT. DATE

DESIGNED	IMRAN AHMAD	
DRAWN	EDDY LEUNG	
CHECKED	DUNCAN CAMPBELL	
APPROVED LEAD ENGINEER	JONATHAN MOHACSI	
APPROVED PROJ. MANAGER	PETER BAMFORTH	
CONSULTANT		
NAME (PRINT)	INIT. DATE	

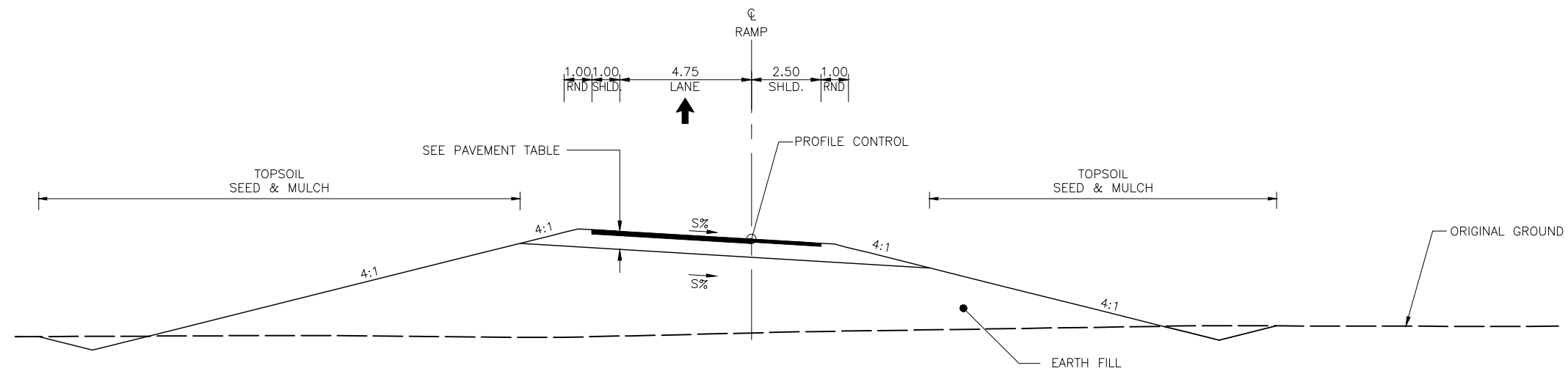


TITLE							
HWY 427 EXPANSION							
TYPICAL SECTIONS							
HIGHWAY 427 MAINLINE							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0070	C

SUPERELEVATION RATES, S%												
PAVEMENT	+6	+5	+4	+3	+2	+1	0	-1	-2	-3	-4	-6
SHOULDER	-2	-2	-2	-3	-3	-3	-4	-5	-6	-6	-6	-6



TWO-LANE RAMP



SINGLE LANE RAMP

NOTES:

1. FORESLOPE:
WHERE $h < 6m$, SLOPE SHALL BE 4:1
WHERE $h > 6$, SLOPE SHALL BE 2:1
WITH 2m BENCHING EVERY 6m IN HEIGHT
2. BACKSLOPE:
WHERE $h < 1$, SLOPE SHALL BE 4:1
WHERE $1 < h < 3$, SLOPE SHALL BE 3:1
WHERE $h > 3$, SLOPE SHALL BE 2:1
WITH 2m BENCHING EVERY 6m IN HEIGHT
3. GRANULAR SEALING TO BE APPLIED PER OPSD 210.070
4. SHOULDER RUMBLE STRIPS TO BE CONSTRUCTED PER MTOD 503 SERIES
5. SBGR AS PER FUTURE PACKAGE
6. EROSION CONTROL BLANKET SHALL BE USED ON SLOPES STEEPER THAN 3:1

NO.	DATE	REVISIONS	BY	CHK	LEAD. DESIG.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

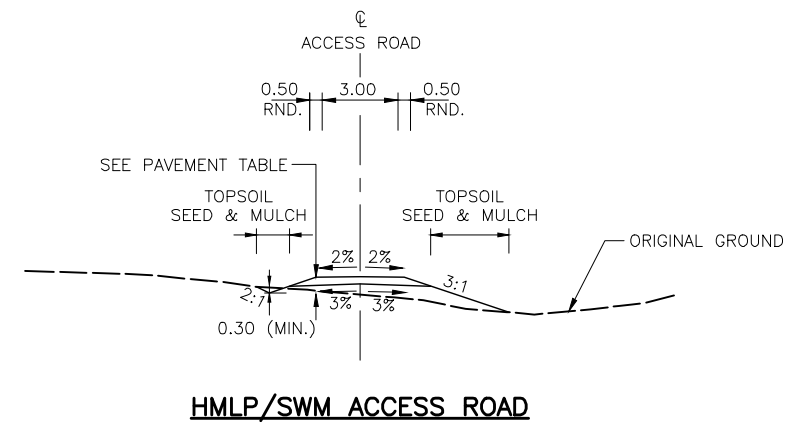
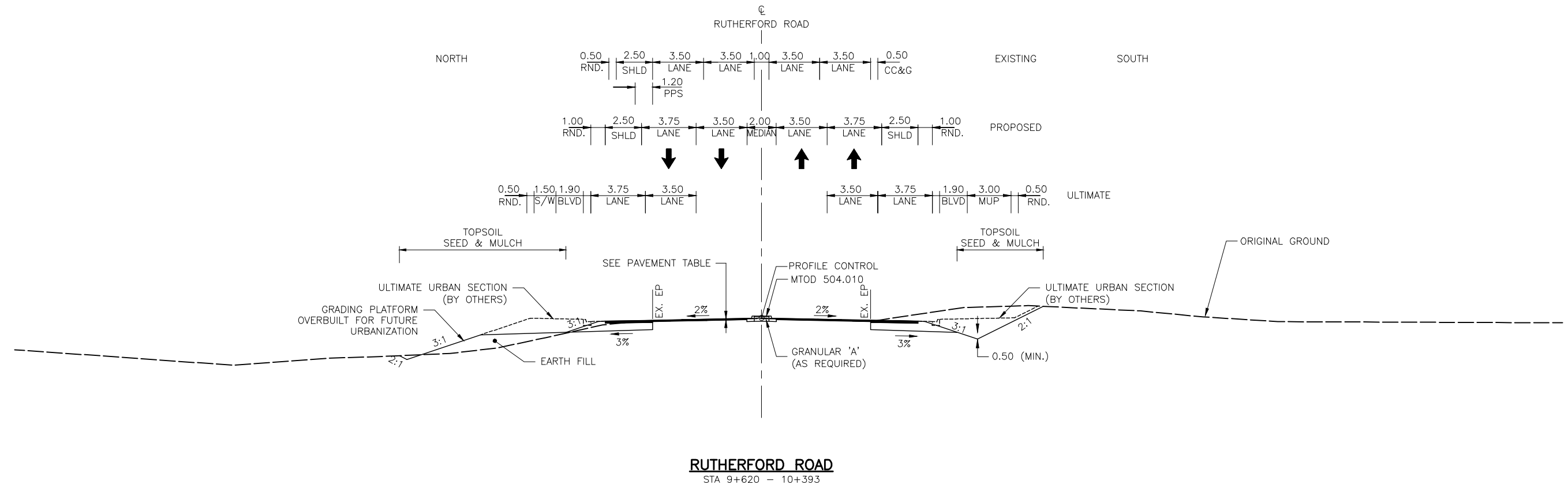
SCALE :

N.T.S

DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENGINEER	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
CONSULTANT	
NAME (PRINT)	INIT. DATE



HWY 427 EXPANSION							
TYPICAL SECTIONS RAMP							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0071	C



NO.	DATE	REVISIONS	BY	CHK	LEAD. ENG.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

SCALE :

N.T.S

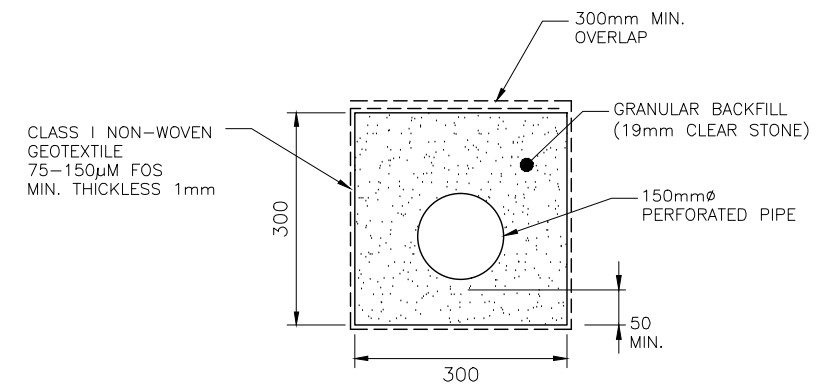
DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENGINEER	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH
NAME (PRINT)	INT. DATE

CONSULTANT	
NAME (PRINT)	INT. DATE



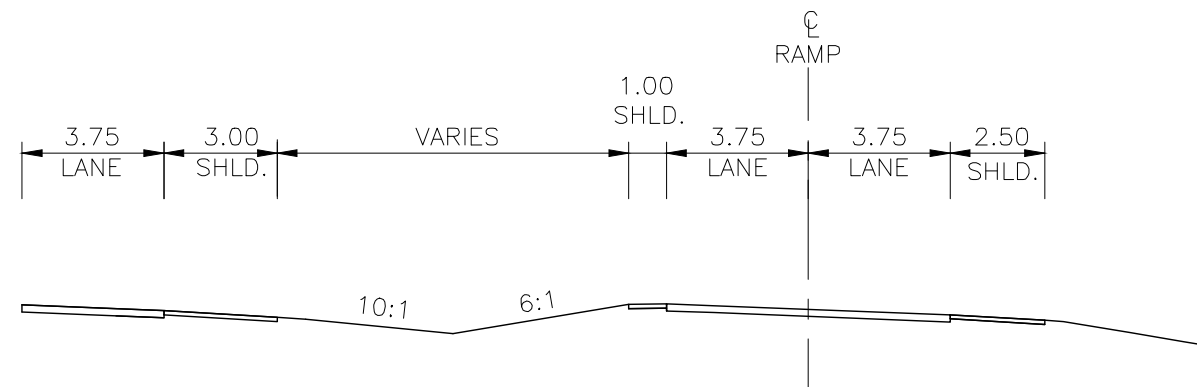
HWY 427 EXPANSION							
TYPICAL SECTIONS							
RUTHERFORD ROAD & ACCESS ROAD							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0072	C

EX. ASPHALT	40mm SUPERPAVE 12.5 FC1 SURFACE COURSE
EX. GRANULAR 'A'	
EX. GRANULAR B	
AVERAGE BOTTOM OF EXISTING GRAVEL	



**TRANSITION TO EXISTING PAVEMENT
RUTHERFORD ROAD AT EAST AND WEST LIMIT
STEP JOINT DETAIL**

SUBDRAIN DETAIL



STANDARD GRADING TREATMENT AT EXIT BULLNOSES

NO.	DATE	REVISIONS	BY	CHK	LEAD. DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

SCALE :

N.T.S

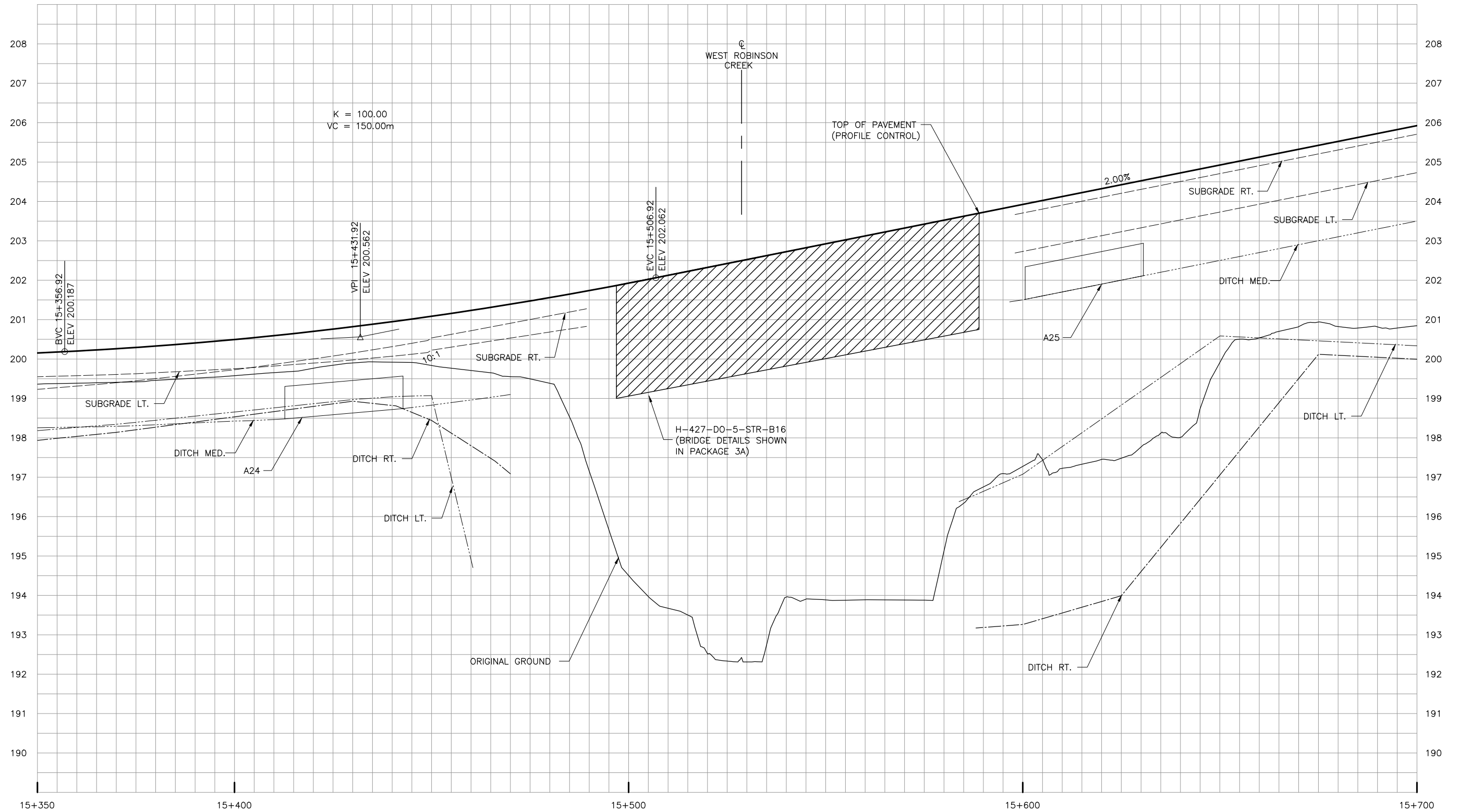
DESIGNED	IMRAN AHMAD
DRAWN	EDDY LEUNG
CHECKED	DUNCAN CAMPBELL
APPROVED LEAD ENGINEER	JONATHAN MOHACSI
APPROVED PROJ. MANAGER	PETER BAMFORTH

CONSULTANT	NAME (PRINT)	INIT.	DATE

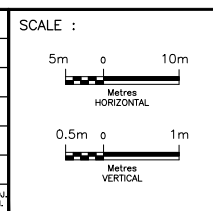


TITLE							
HWY 427 EXPANSION							
MISCELLANEOUS DETAILS							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	2	HWY	000	DWG	0073	C

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
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B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



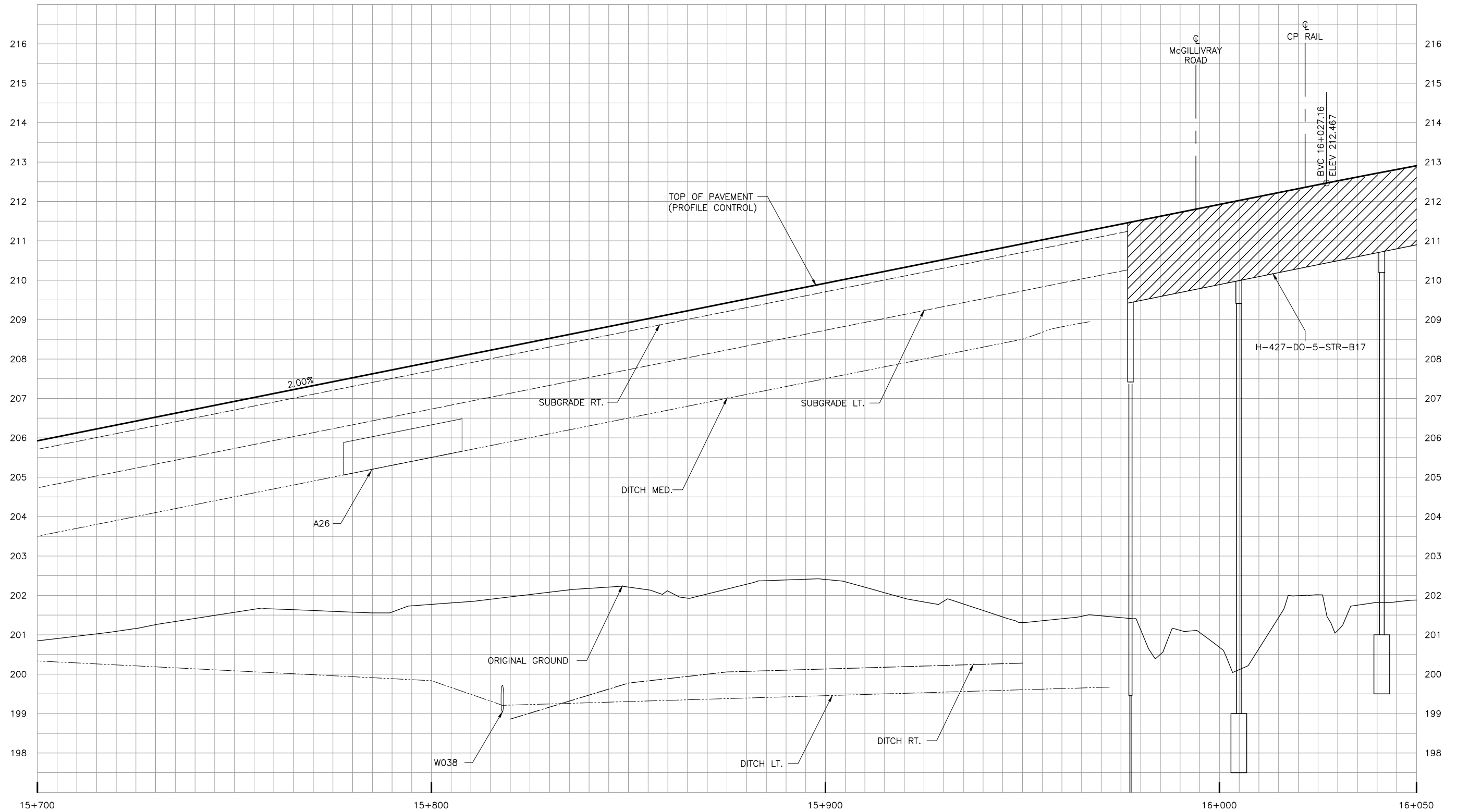
DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENG.	Jonathan Mohacsi
APPROVED PROJ. MANAGER	Peter Bamforth

CONSULTANT	
NAME (PRINT)	
INIT.	
DATE	

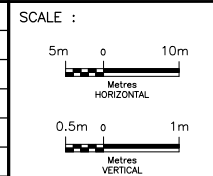


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HWY 427 EXPANSION							
PROFILE							
STA. 15+350 TO STA. 15+700							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0041	C

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
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A	17/12/01	90% SUBMISSION TO CA				

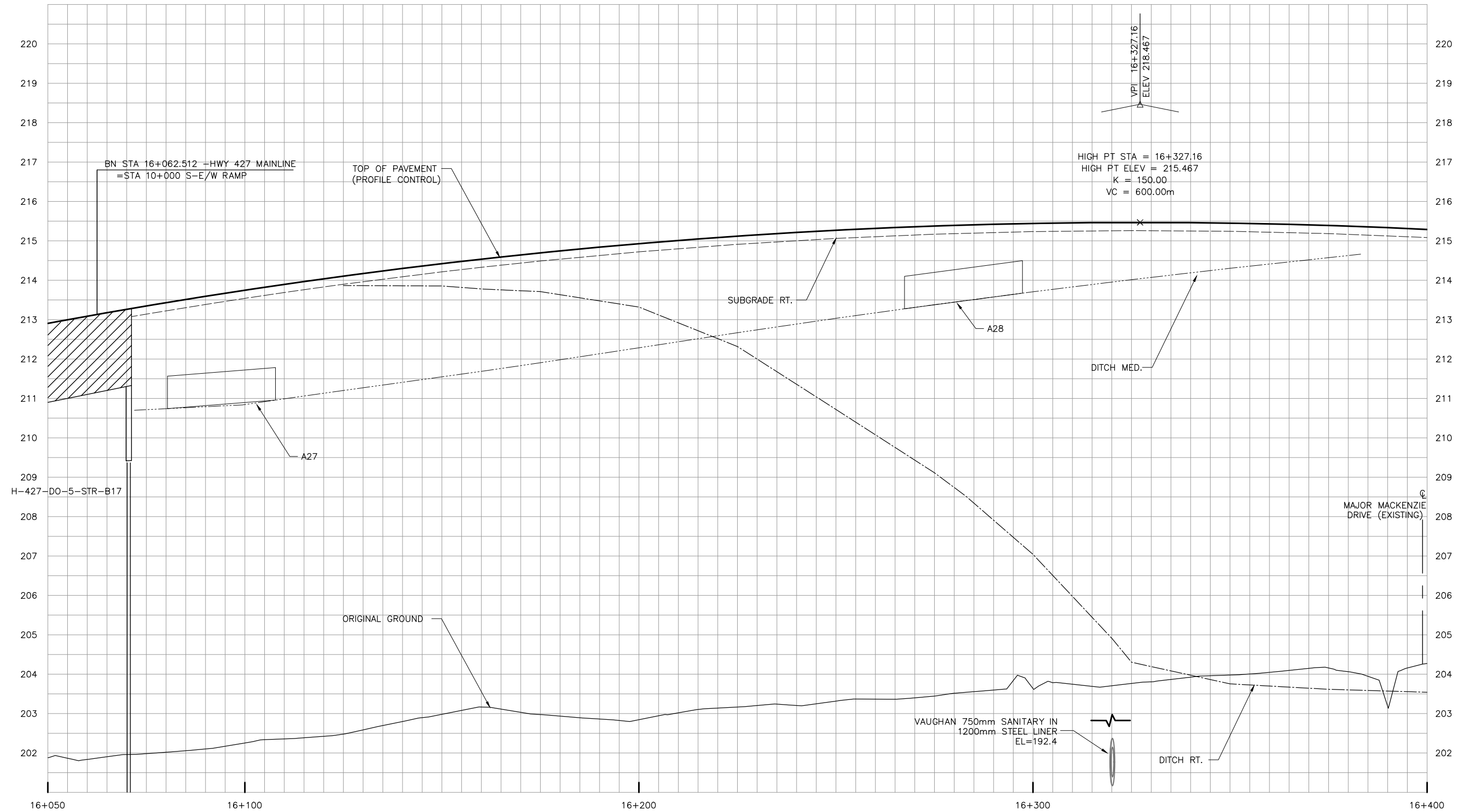


DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENG.	Jonathan Mohacsi
APPROVED PROJ. MANAGER	Peter Bamforth
NAME (PRINT)	
INIT.	
DATE	

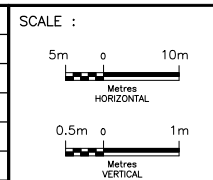


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 15+700 TO STA. 16+050							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0042	C

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
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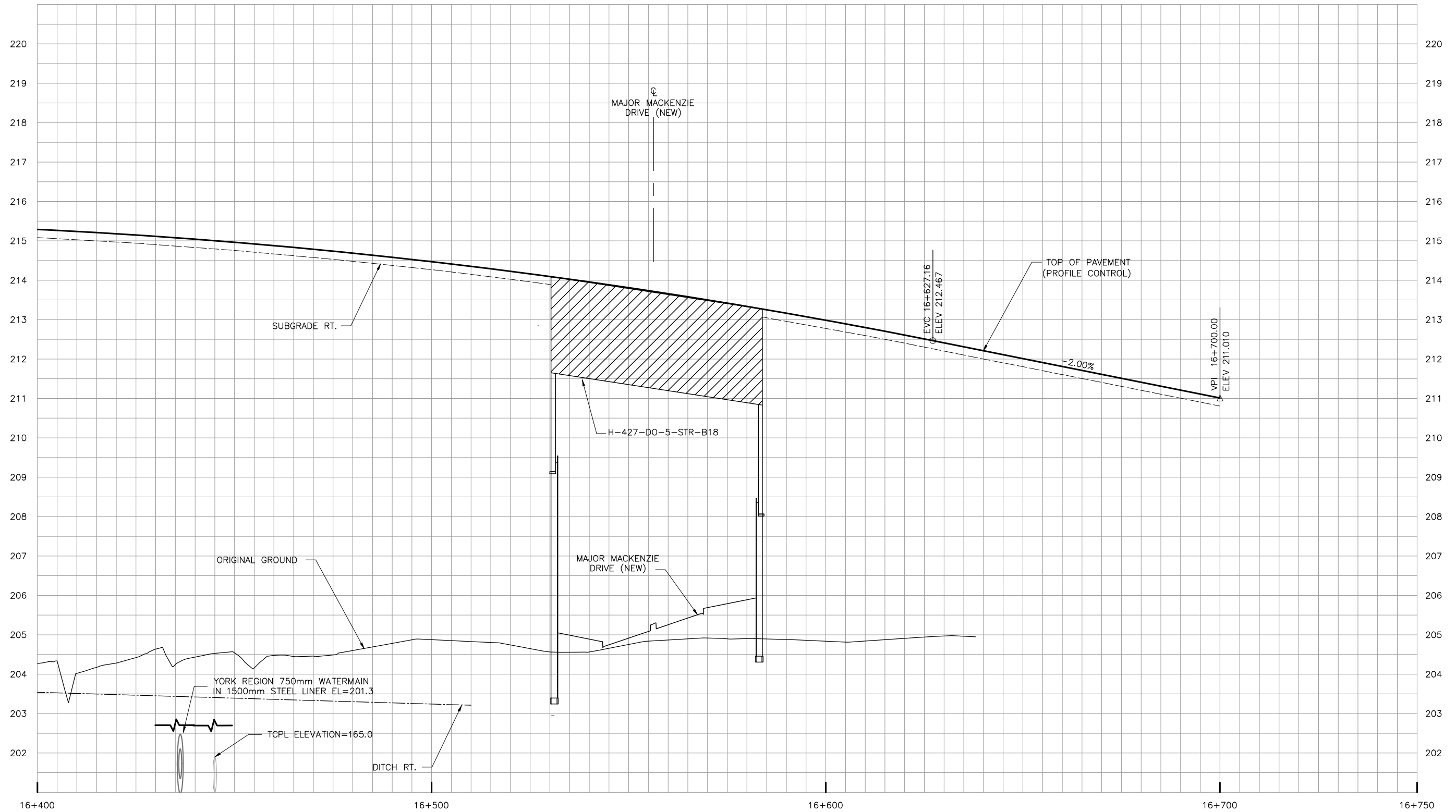


DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENG.	Jonathan Mohacsi
APPROVED PROJ. MANAGER	Peter Bamforth
NAME (PRINT)	
INIT.	
DATE	

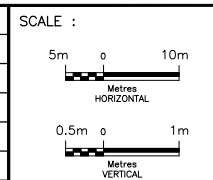


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 16+050 TO STA. 16+400							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0043	C

HIGHWAY 427



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
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B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

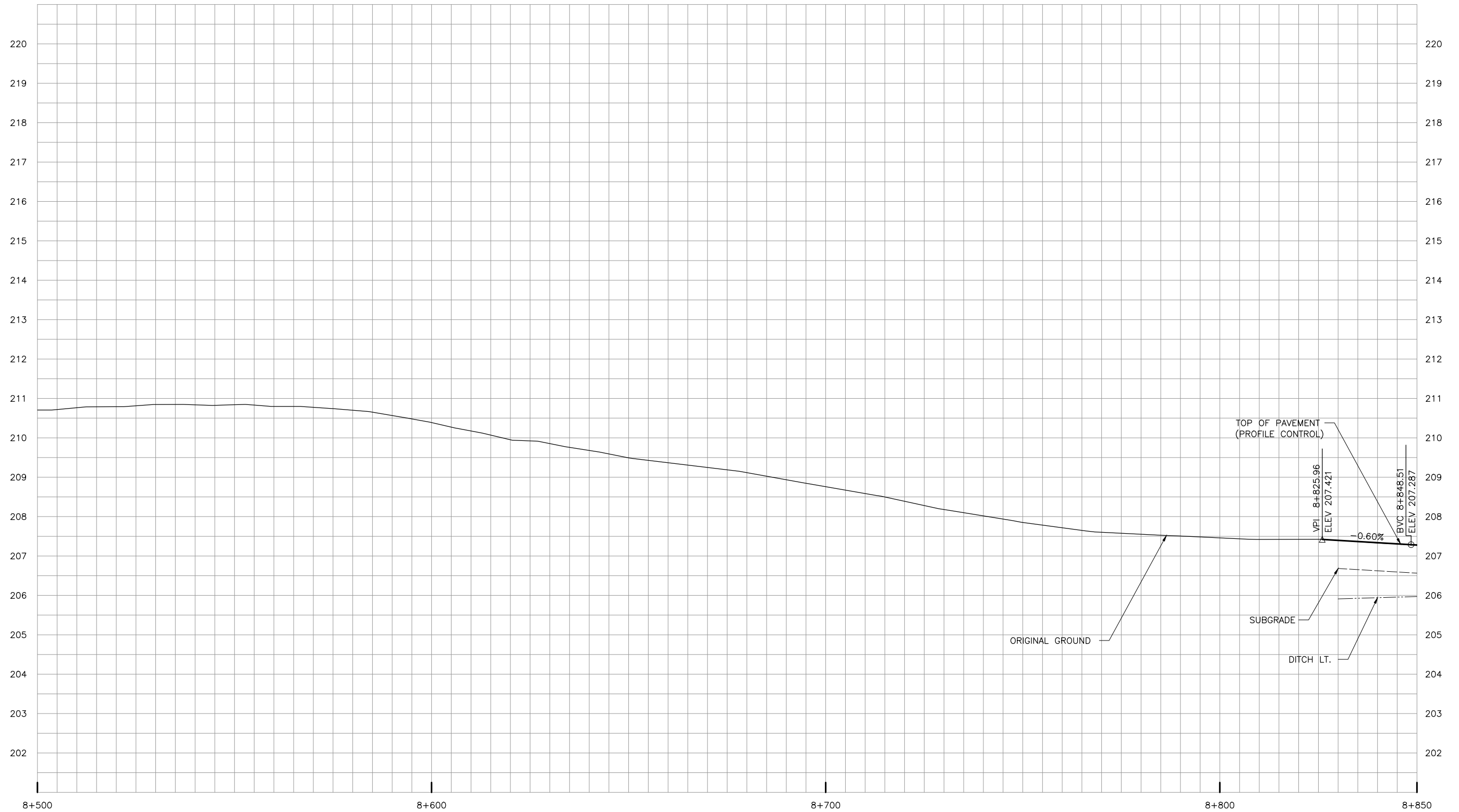


DESIGNED	Sharm Talagala	
DRAWN	Arash Khaleghi	
CHECKED	Duncan Campbell	
APPROVED LEAD ENG.	Jonathan Mohacsi	
APPROVED PROJ. MANAGER	Peter Bamforth	
NAME (PRINT)	INIT.	DATE

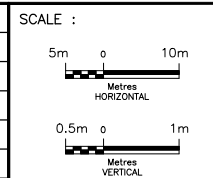


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HWY 427 EXPANSION							
PROFILE							
STA. 16+400 TO STA. 16+750							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0044	C

MAJOR MACKENZIE DRIVE WESTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

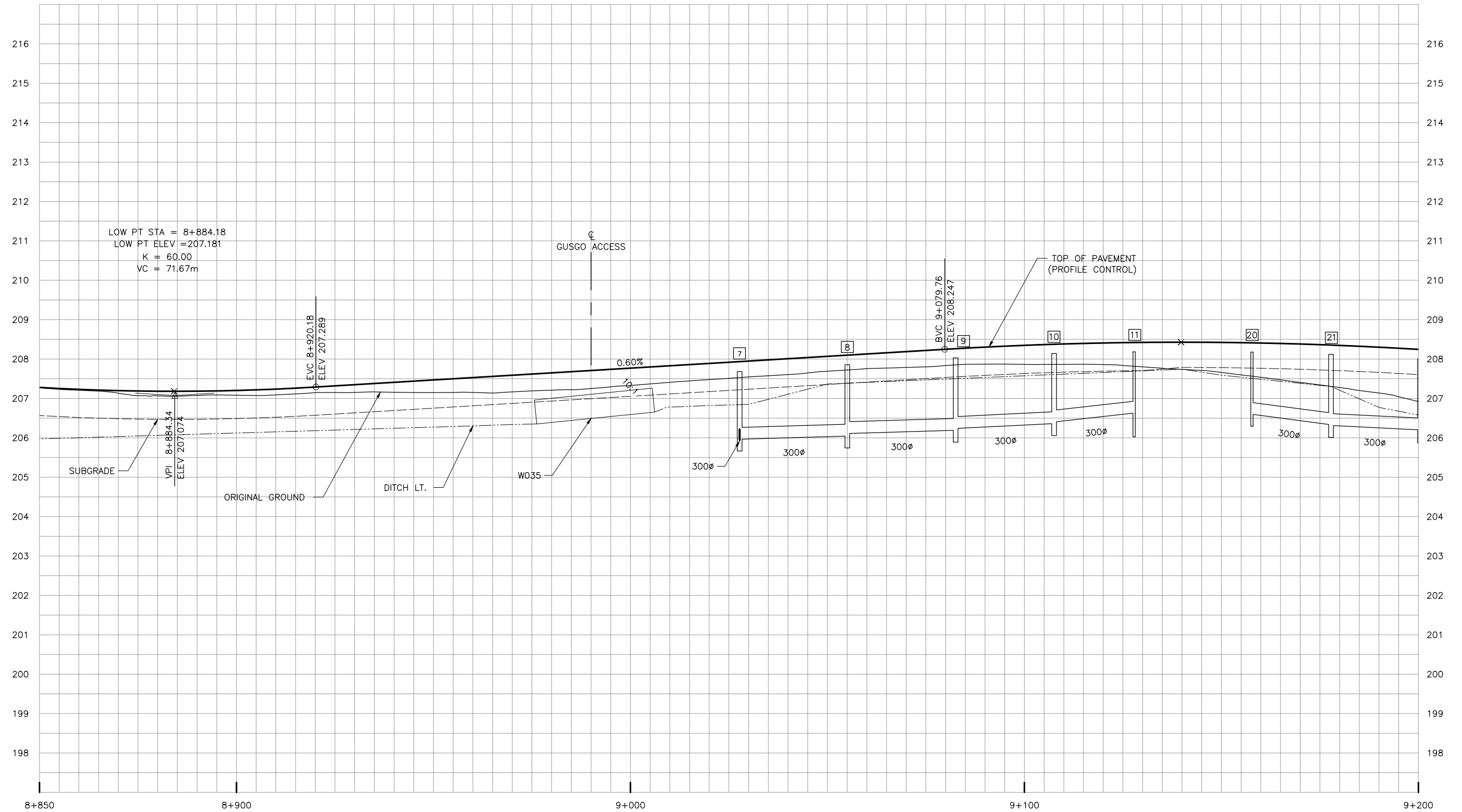


DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENG.	Jonathan Mohacsi
APPROVED PROJ. MANAGER	Peter Bamforth
NAME (PRINT)	
INIT.	
DATE	

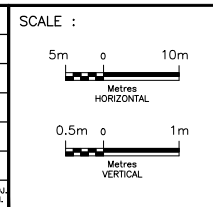


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 8+825 TO STA. 8+850							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0045	C

MAJOR MACKENZIE DRIVE WESTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
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B	18/01/05	90% SUBMISSION TO CA				
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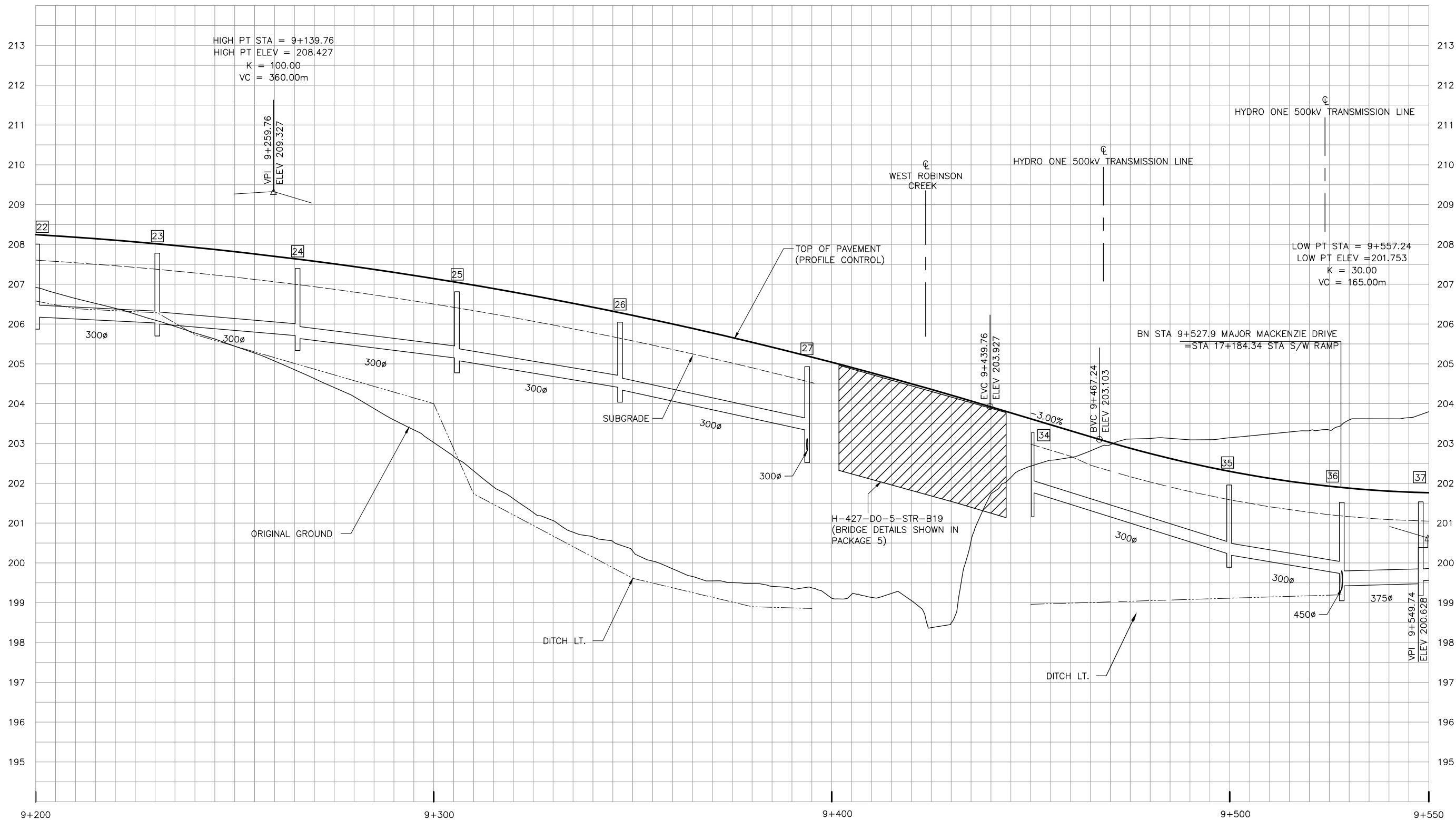


DESIGNED	Sharm Talagala	INIT.	DATE
DRAWN	Arash Khaleghi		
CHECKED	Duncan Campbell		
APPROVED LEAD ENG.	Jonathan Mohsasi		
APPROVED PROJ. MANAGER	Peter Bamforth		
NAME (PRINT)			
INIT.			
DATE			

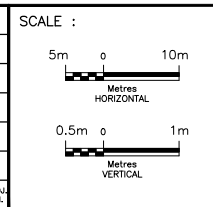


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 8+850 TO STA. 9+200							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0046	C

MAJOR MACKENZIE DRIVE WESTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
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A	17/12/01	90% SUBMISSION TO CA				



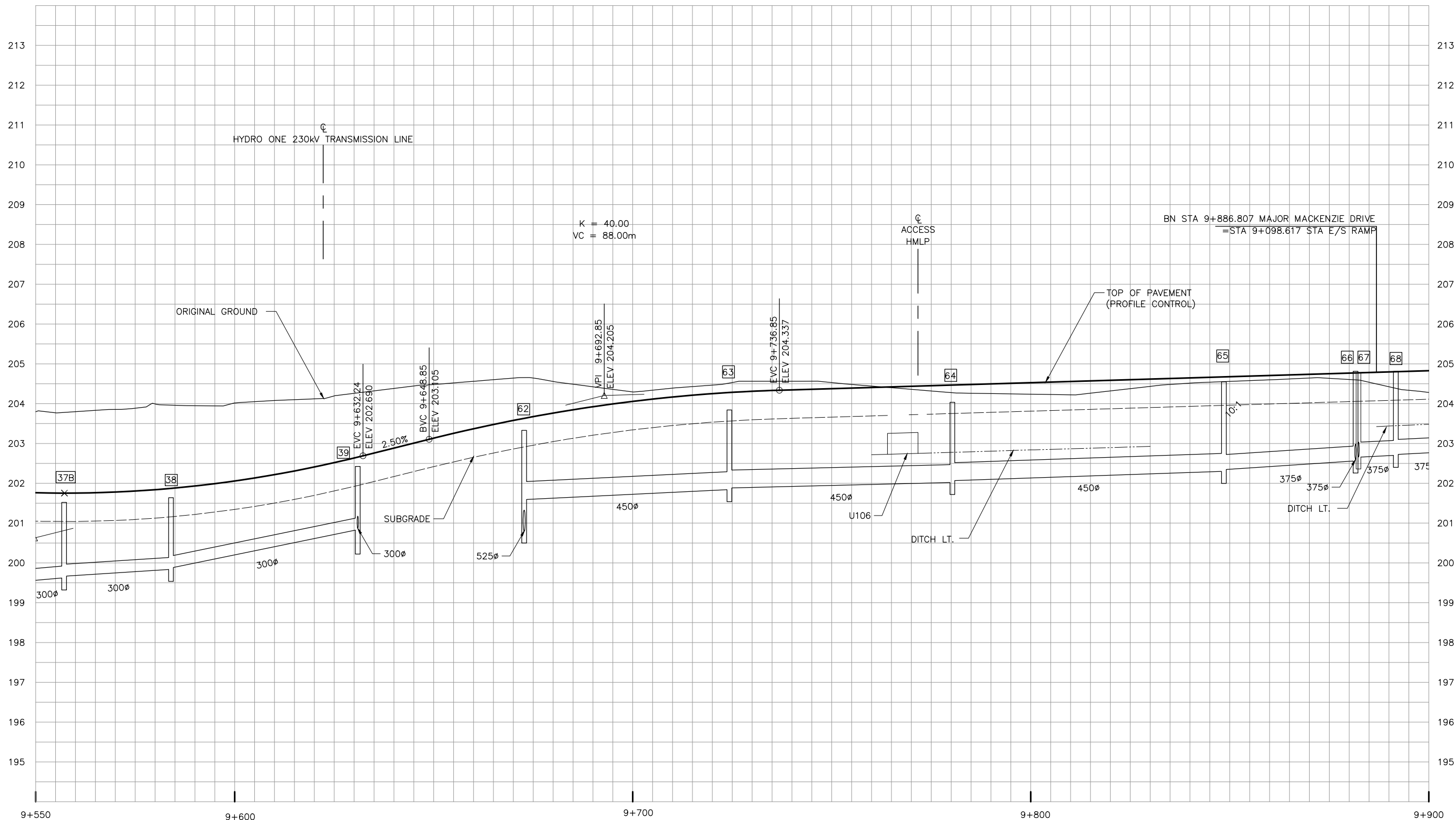
DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENG.	Jonathan Mohacsi
APPROVED PROJ. MANAGER	Peter Bamforth

CONSULTANT	
NAME (PRINT)	
INIT.	
DATE	

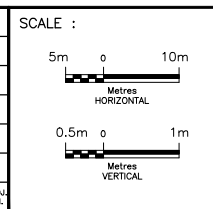


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+200 TO STA. 9+550							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0047	C

MAJOR MACKENZIE DRIVE WESTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
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B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



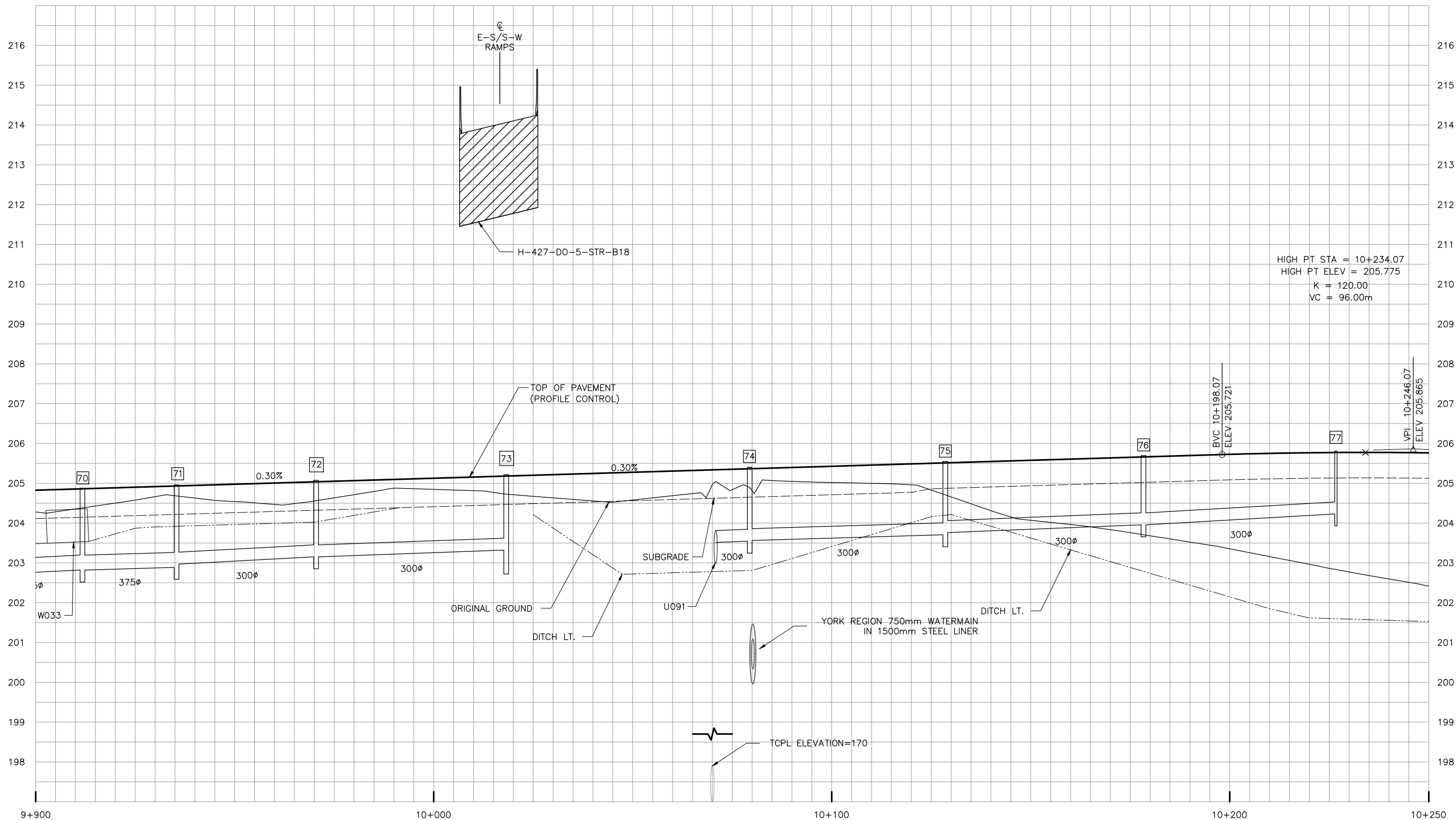
DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENGR.	Jonathan Mohacsi
APPROVED PROJ. MANAGER	Peter Bamforth

CONSULTANT	NAME (PRINT)	INIT.	DATE

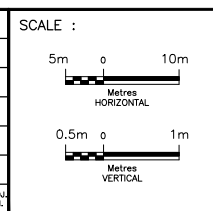


HWY 427 EXPANSION							
PROFILE							
STA. 9+550 TO STA. 9+900							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
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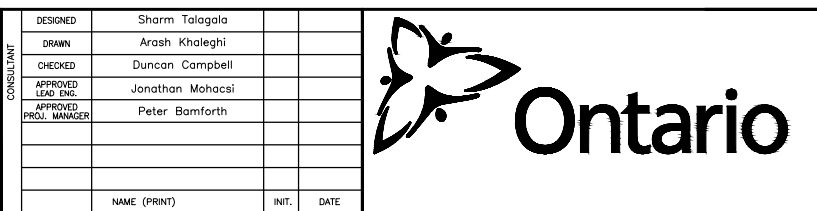
MAJOR MACKENZIE DRIVE WESTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
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A	17/12/01	90% SUBMISSION TO CA				



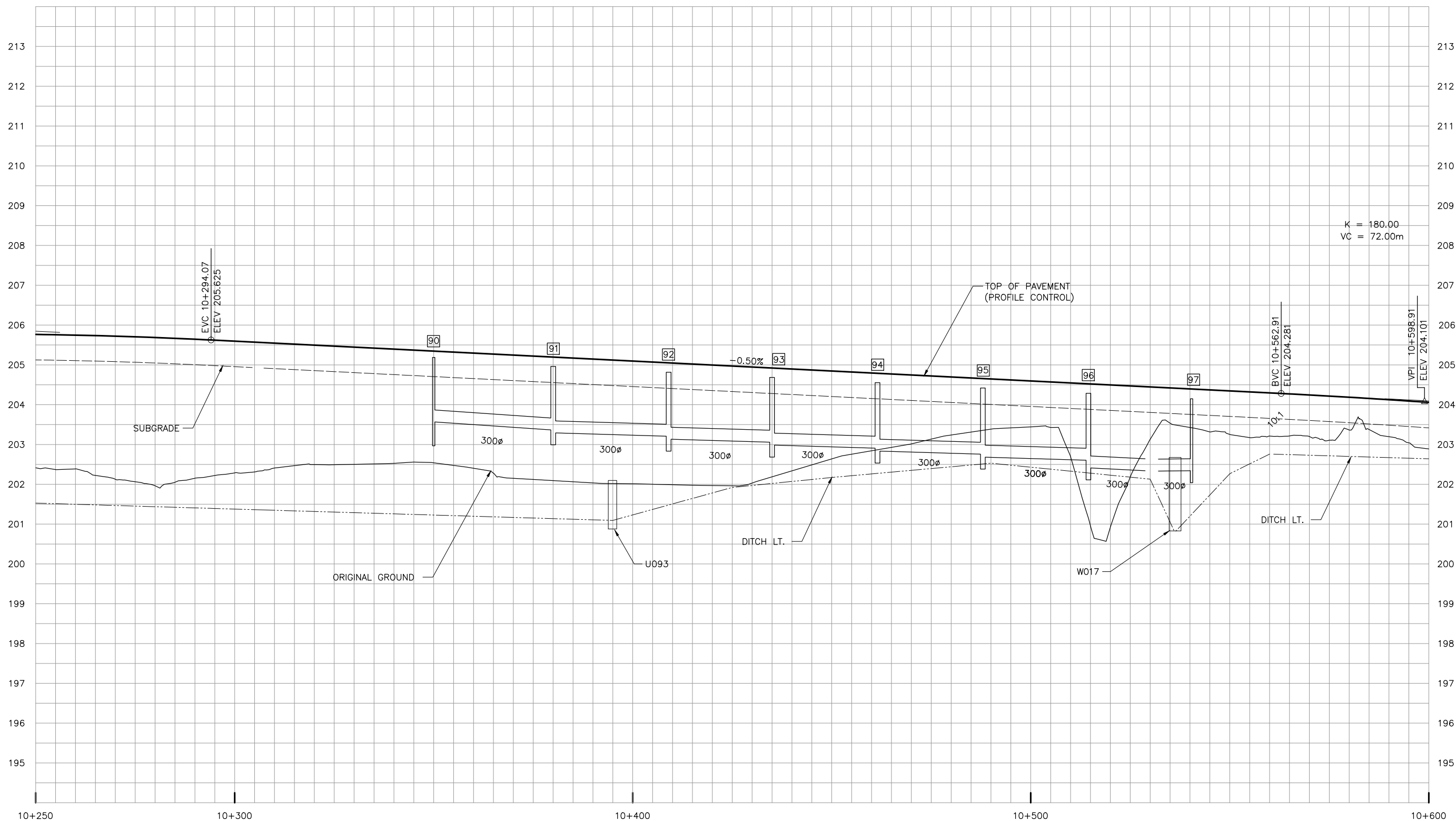
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DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENGR.	Jonathan Mohasi
APPROVED PROJ. MANAGER	Peter Bamforth
CONSULTANT	
NAME (PRINT)	INIT. DATE



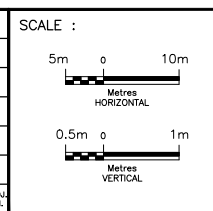
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TITLE: HWY 427 EXPANSION
PROFILE
STA. 9+900 TO STA. 10+250

MAJOR MACKENZIE DRIVE WESTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
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B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



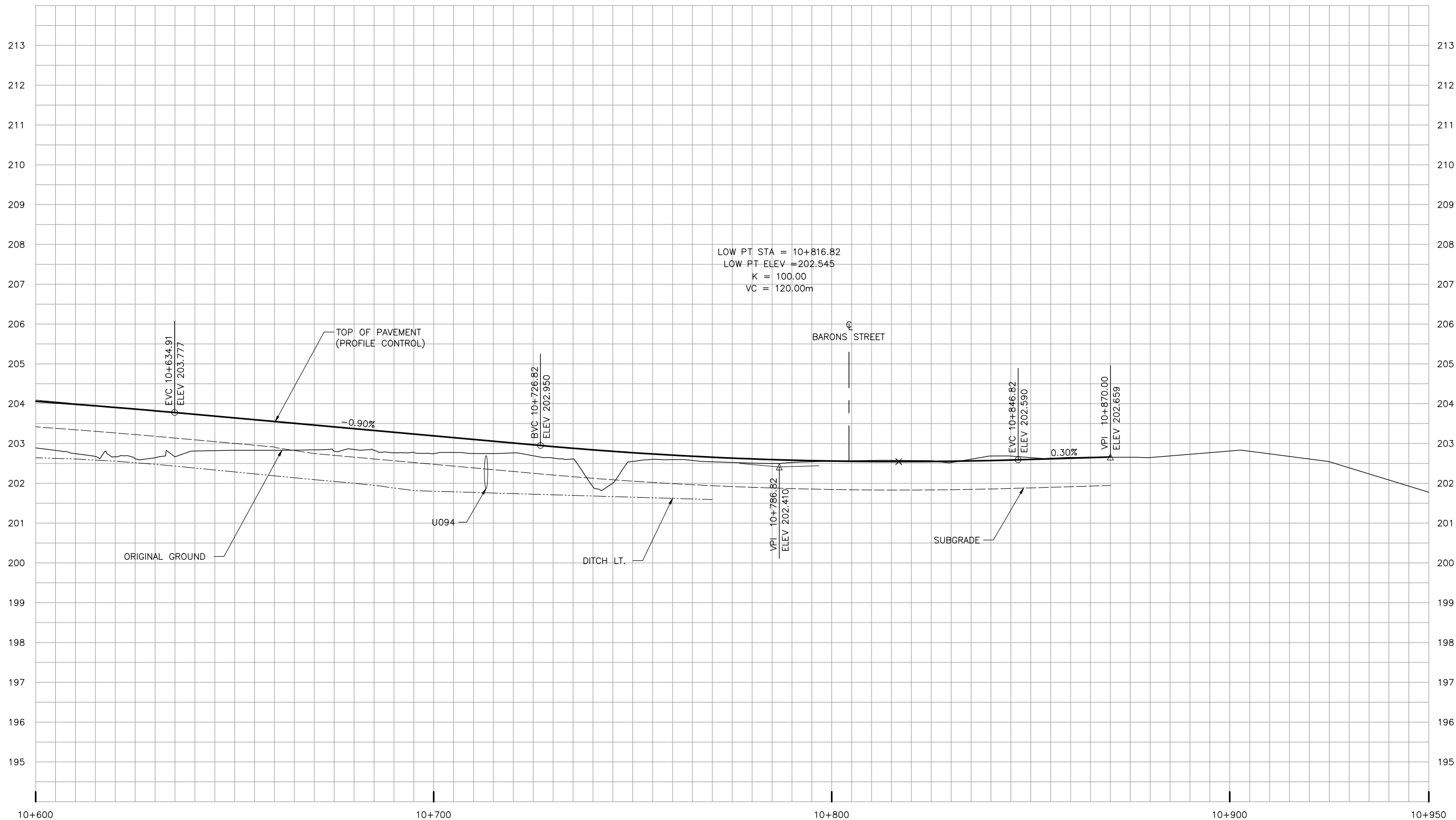
DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENG.	Jonathan Mohasi
APPROVED PROJ. MANAGER	Peter Bamforth

CONSULTANT	
NAME (PRINT)	
INIT.	
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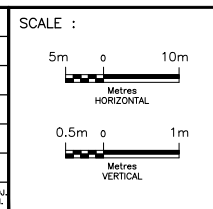


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 10+250 TO STA. 10+600							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0050	C

MAJOR MACKENZIE DRIVE WESTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
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B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



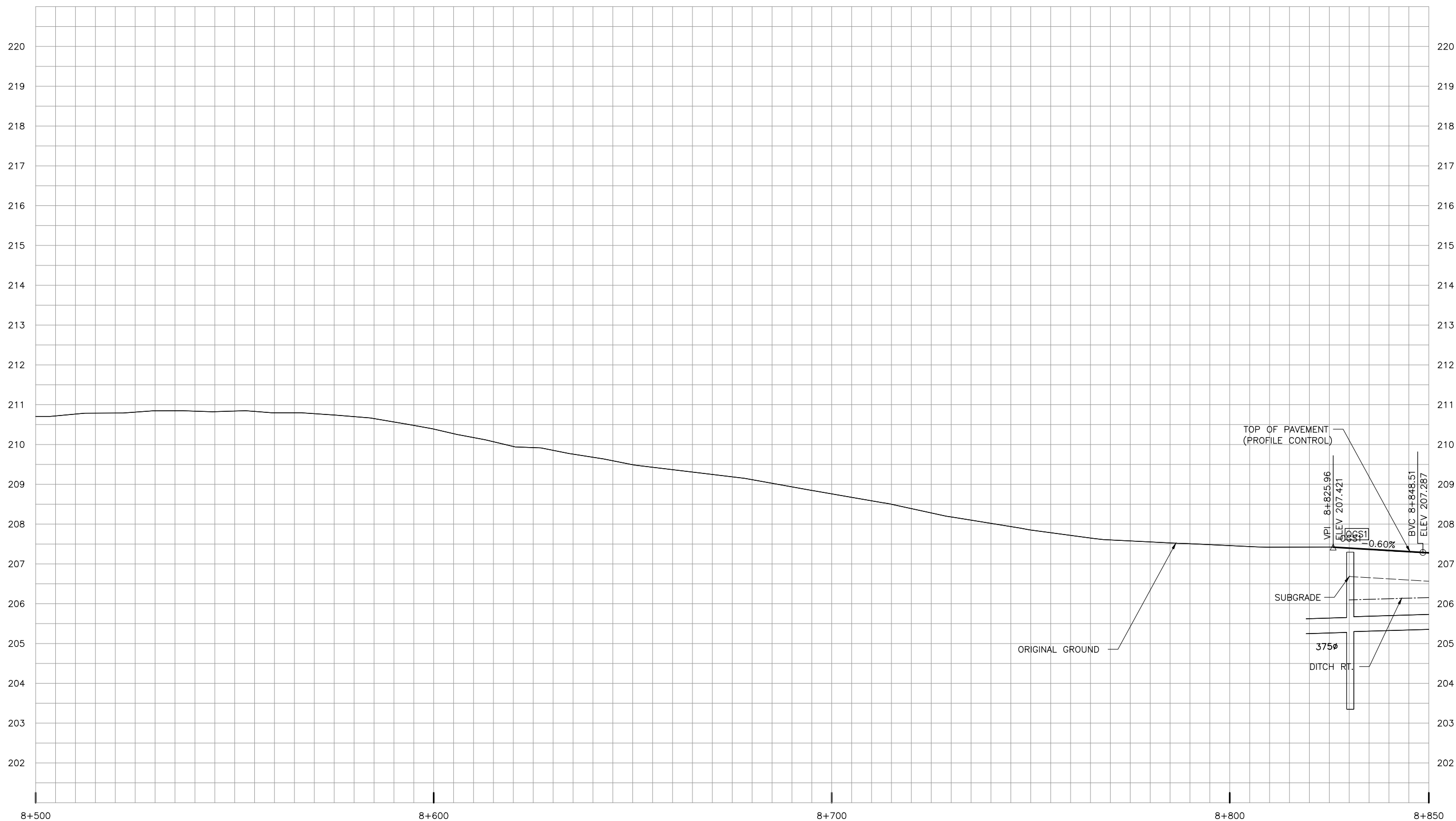
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DRAWN	Arash Khaleghi
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APPROVED PROJ. MANAGER	Peter Bamforth

CONSULTANT	
NAME (PRINT)	
INIT.	
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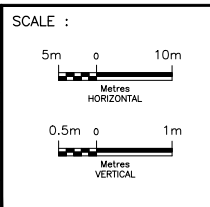


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HWY 427 EXPANSION							
PROFILE							
STA. 10+600 TO STA. 10+870							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0051	C

MAJOR MACKENZIE DRIVE EASTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
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B	18/01/05	90% SUBMISSION TO CA				
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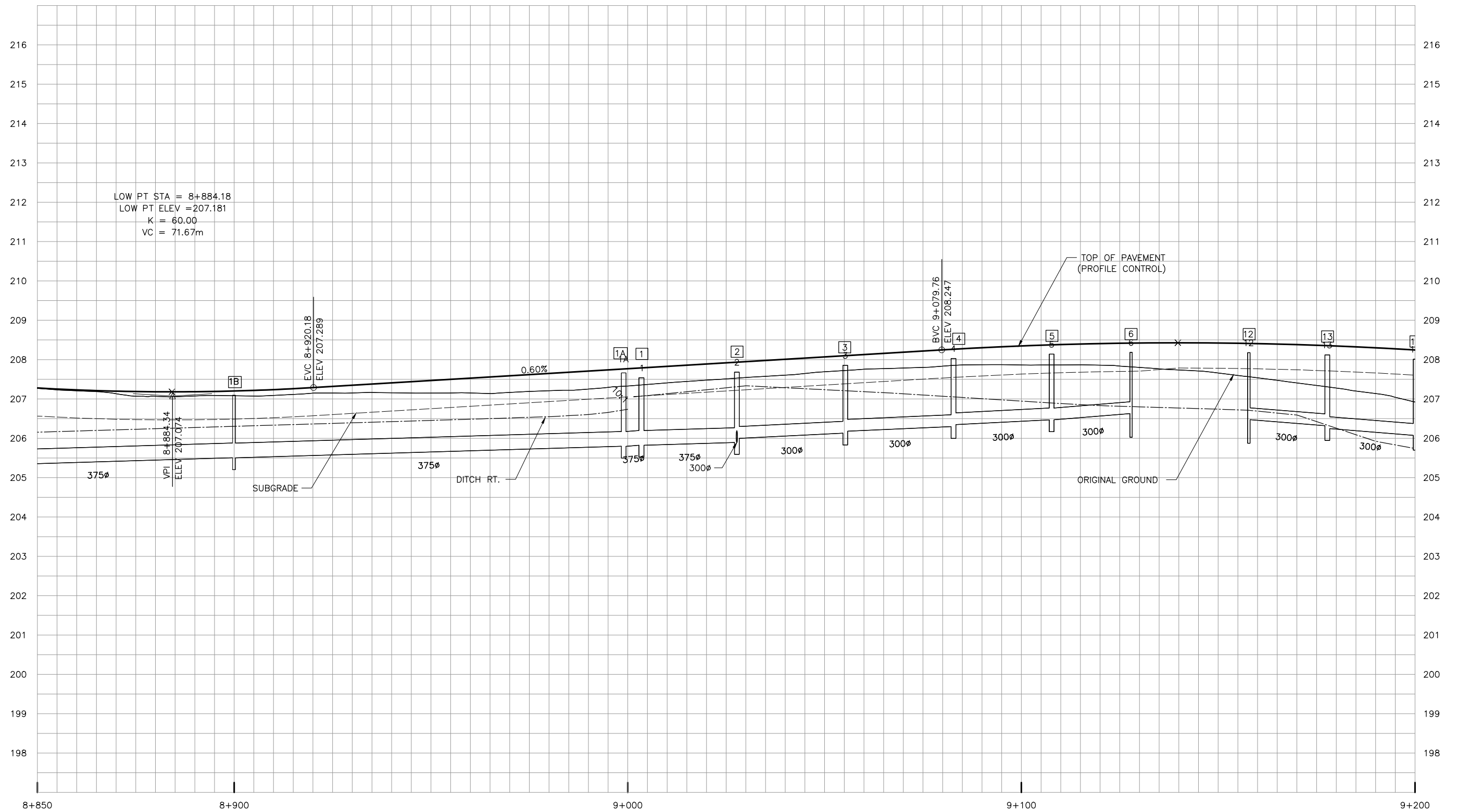


DESIGNED	Sharm Talagala		
DRAWN	Arash Khaleghi		
CHECKED	Duncan Campbell		
APPROVED LEAD ENG.	Jonathan Mohacsi		
APPROVED PROJ. MANAGER	Peter Bamforth		
NAME (PRINT)		INIT.	DATE



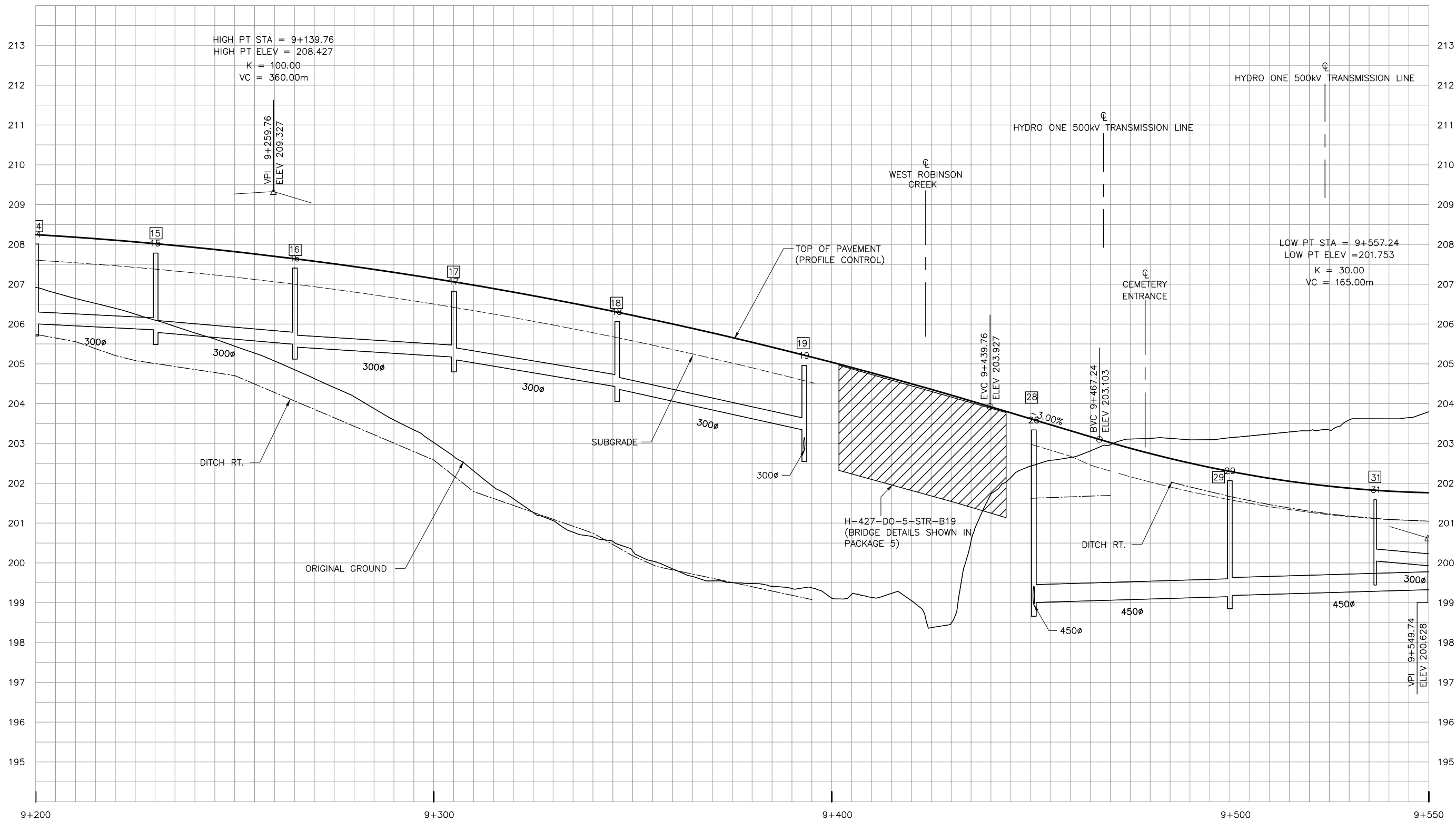
TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 8+500 TO STA. 8+850							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0052	C

MAJOR MACKENZIE DRIVE EASTBOUND

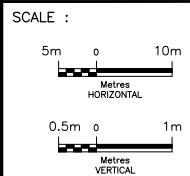


	SCALE :				 		TITLE HWY 427 EXPANSION PROFILE STA. 8+850 TO STA. 9+200																																																						
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NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.																																																							
C	18/03/02	90% SUBMISSION TO CA																																																											
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H427-D	N	3	HWY	000	DWG	0053	C																																																						

MAJOR MACKENZIE DRIVE EASTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
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B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

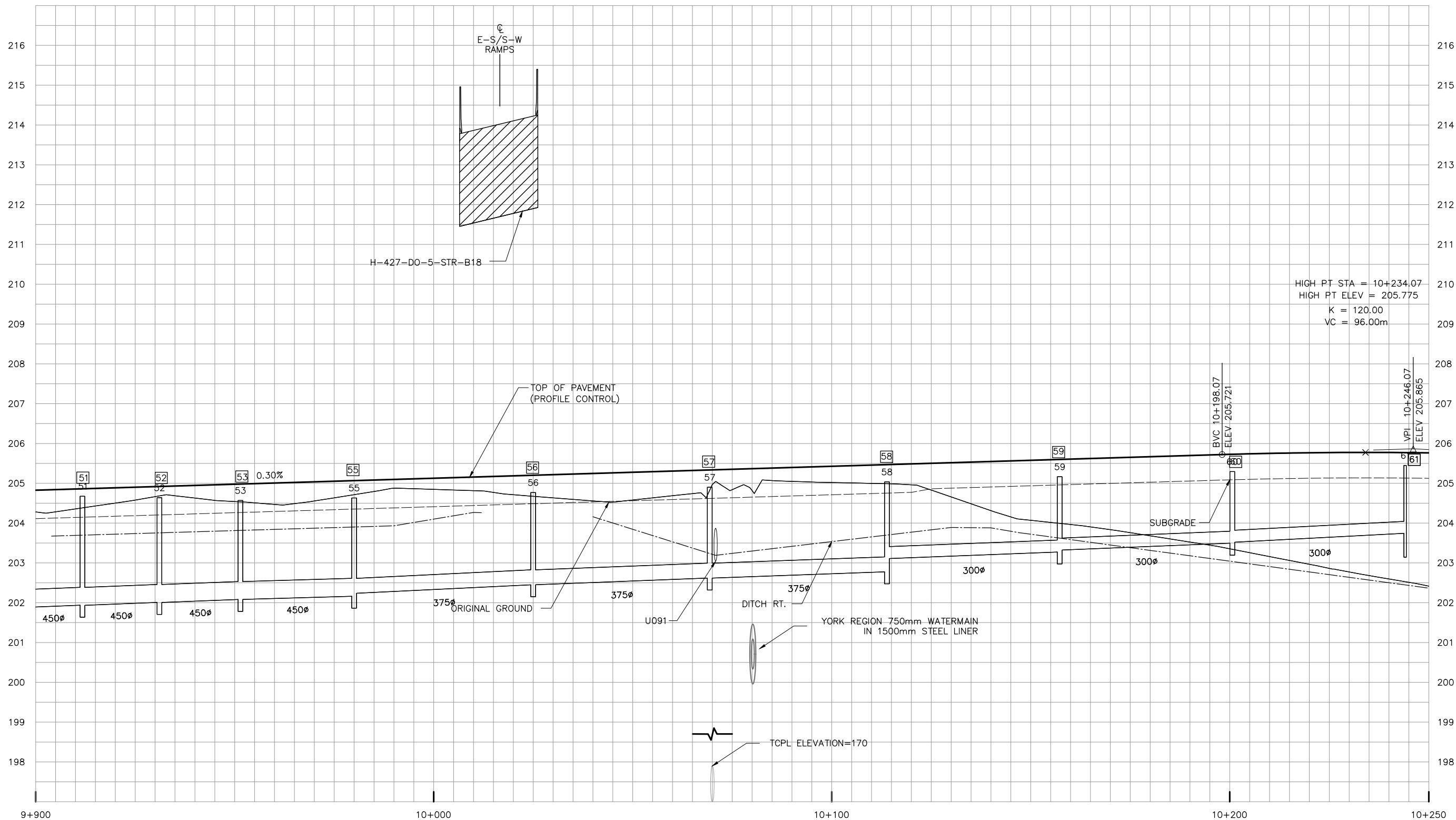


DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENG.	Jonathan Mohacsi
APPROVED PROJ. MANAGER	Peter Bamforth
NAME (PRINT)	
INIT.	
DATE	

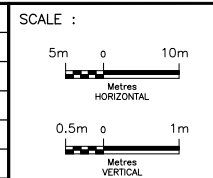


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+200 TO STA. 9+550							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0054	C

MAJOR MACKENZIE DRIVE EASTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
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B	18/01/05	90% SUBMISSION TO CA				
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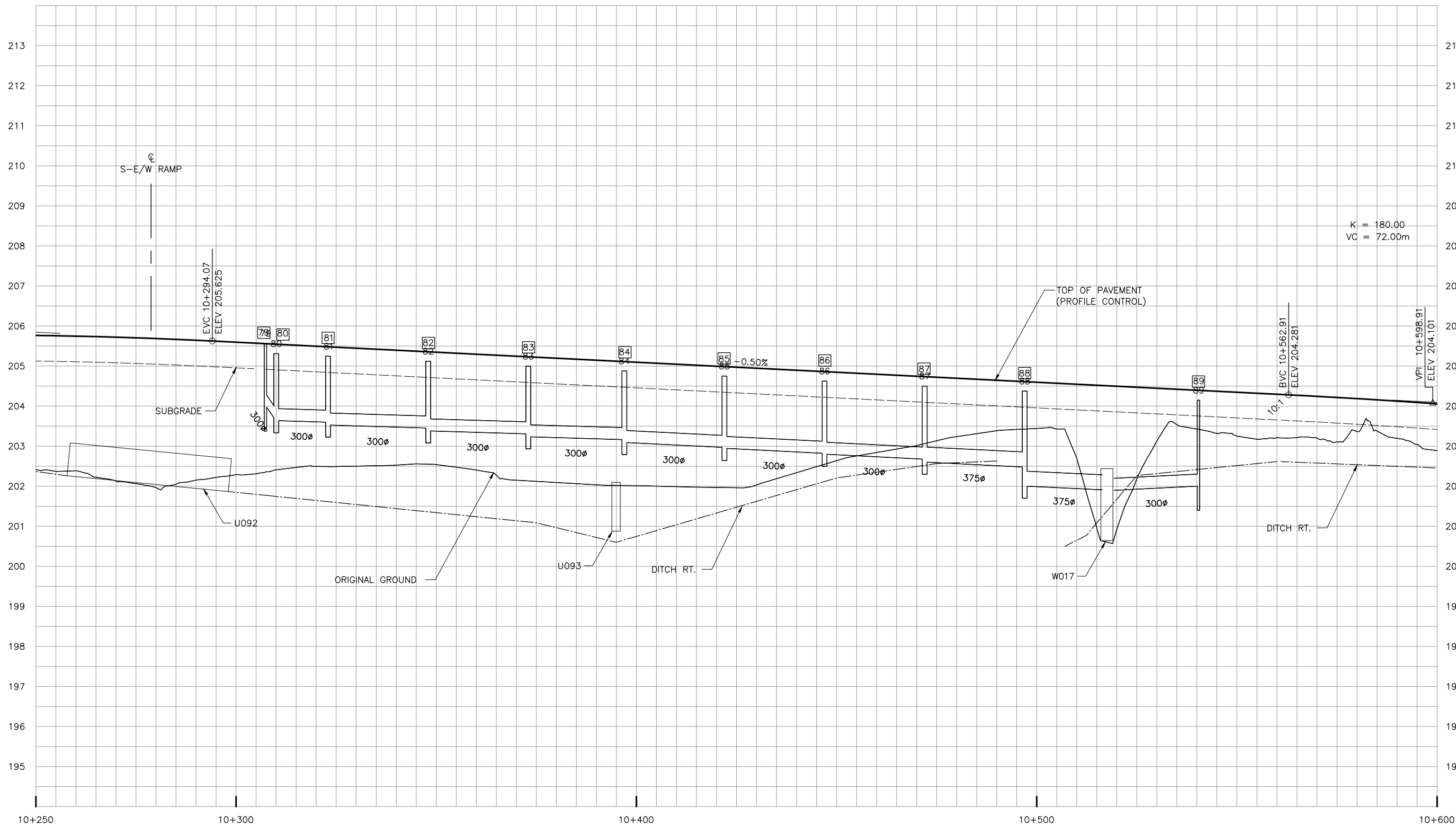


DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENG.	Jonathan Mohacsi
APPROVED PROJ. MANAGER	Peter Bamforth
NAME (PRINT)	
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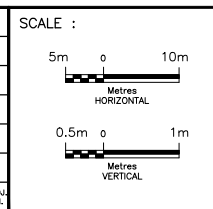


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+900 TO STA. 10+250							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0056	C

MAJOR MACKENZIE DRIVE EASTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
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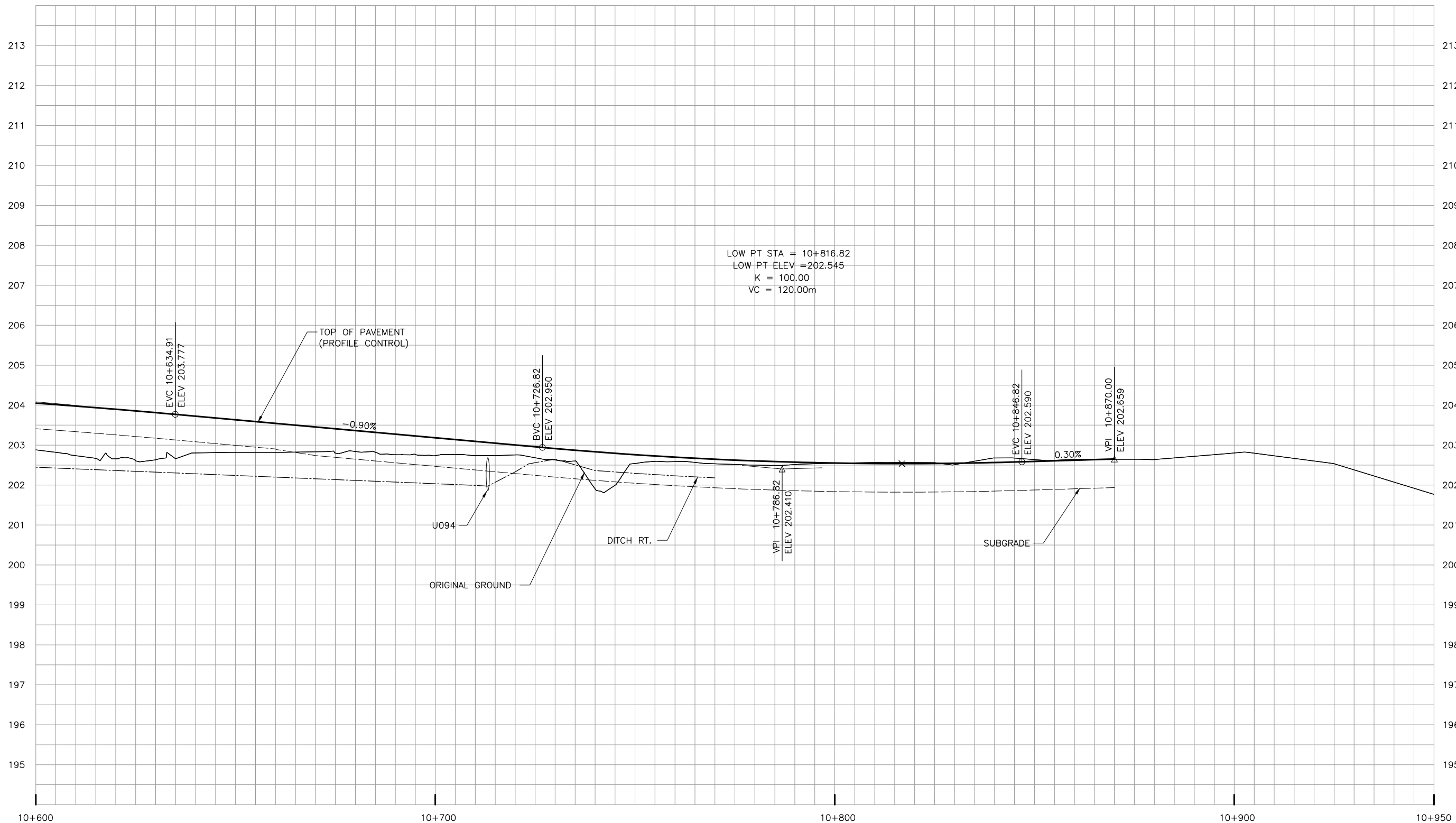


DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENG.	Jonathan Mohacsi
APPROVED PROJ. MANAGER	Peter Bamforth
NAME (PRINT)	
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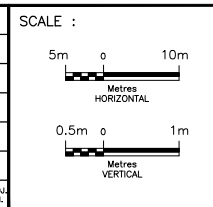


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HWY 427 EXPANSION							
PROFILE							
STA. 10+250 TO STA. 10+600							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0057	C

MAJOR MACKENZIE DRIVE EASTBOUND



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



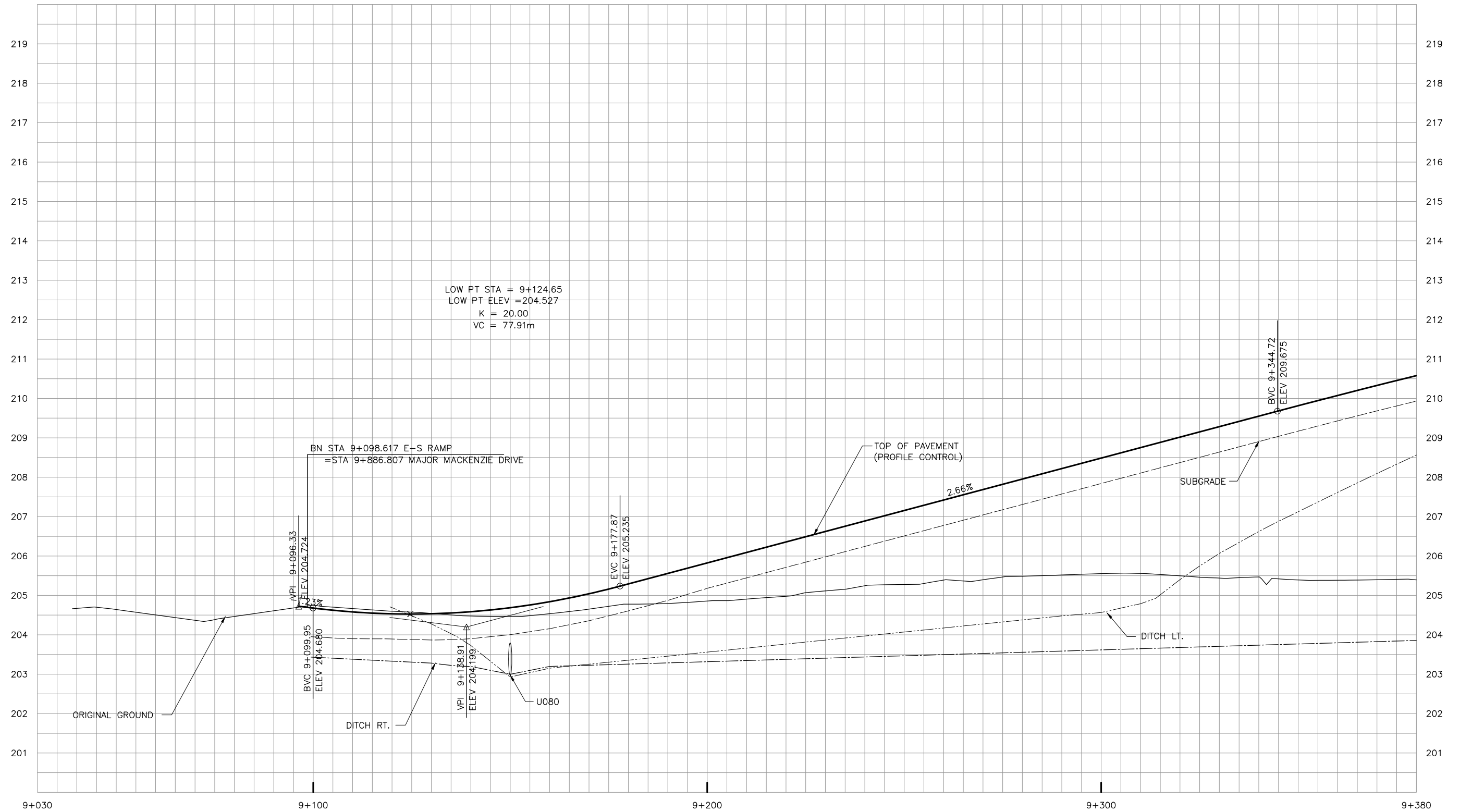
DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENGR.	Jonathan Mohasni
APPROVED PROJ. MANAGER	Peter Bamforth
NAME (PRINT)	
INIT.	
DATE	

CONSULTANT	
DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENGR.	Jonathan Mohasni
APPROVED PROJ. MANAGER	Peter Bamforth
NAME (PRINT)	
INIT.	
DATE	

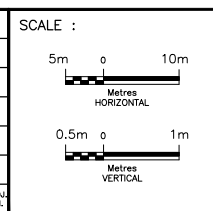


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 10+250 TO STA. 10+600							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0058	C

MAJOR MACKENZIE E-S RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



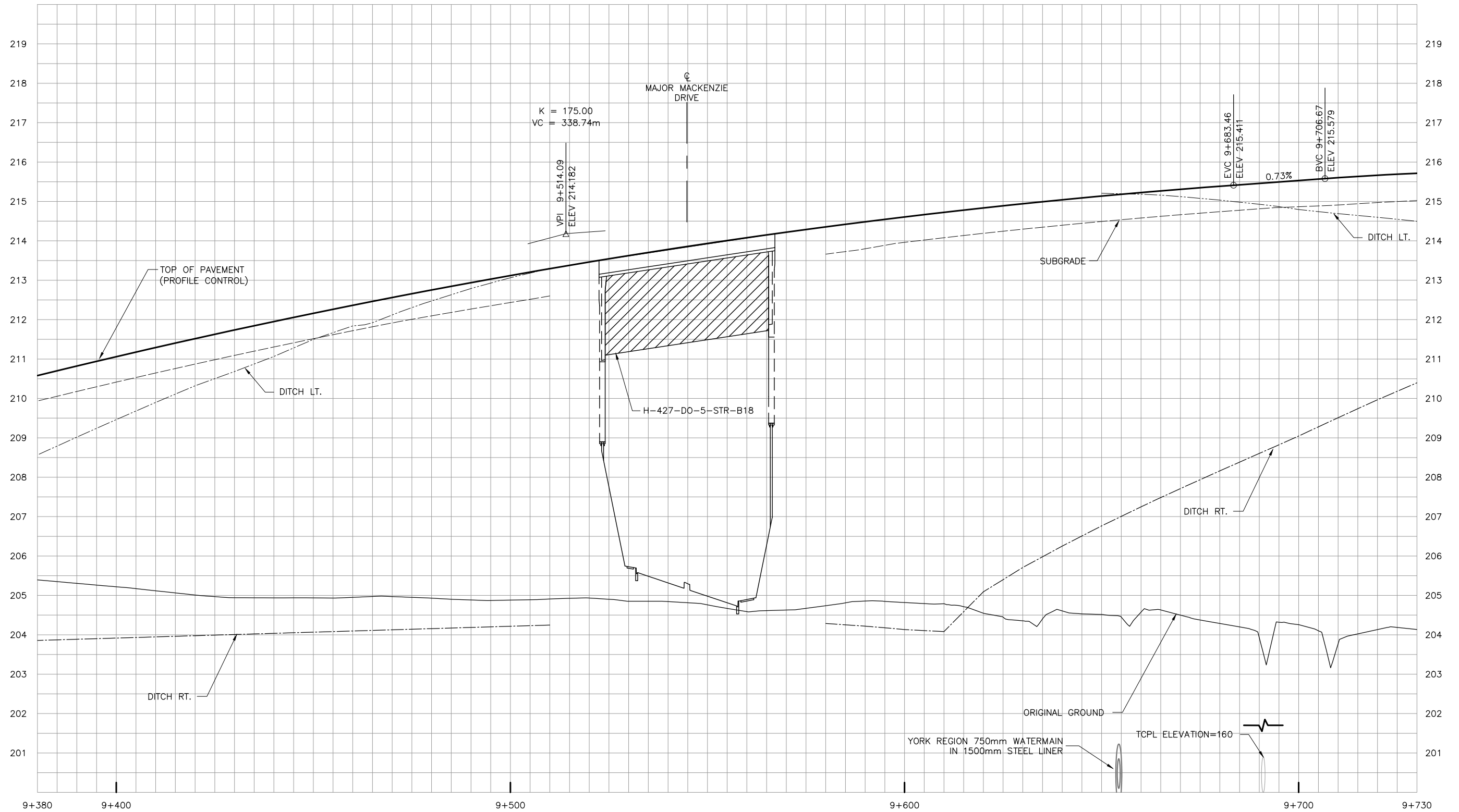
DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENG.	Jonathan Mohacsi
APPROVED PROJ. MANAGER	Peter Bamforth

CONSULTANT	
NAME (PRINT)	
INIT.	
DATE	

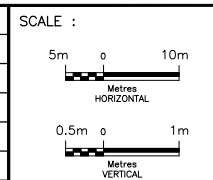


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+030 TO STA. 9+380							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0059	C

MAJOR MACKENZIE E-S RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

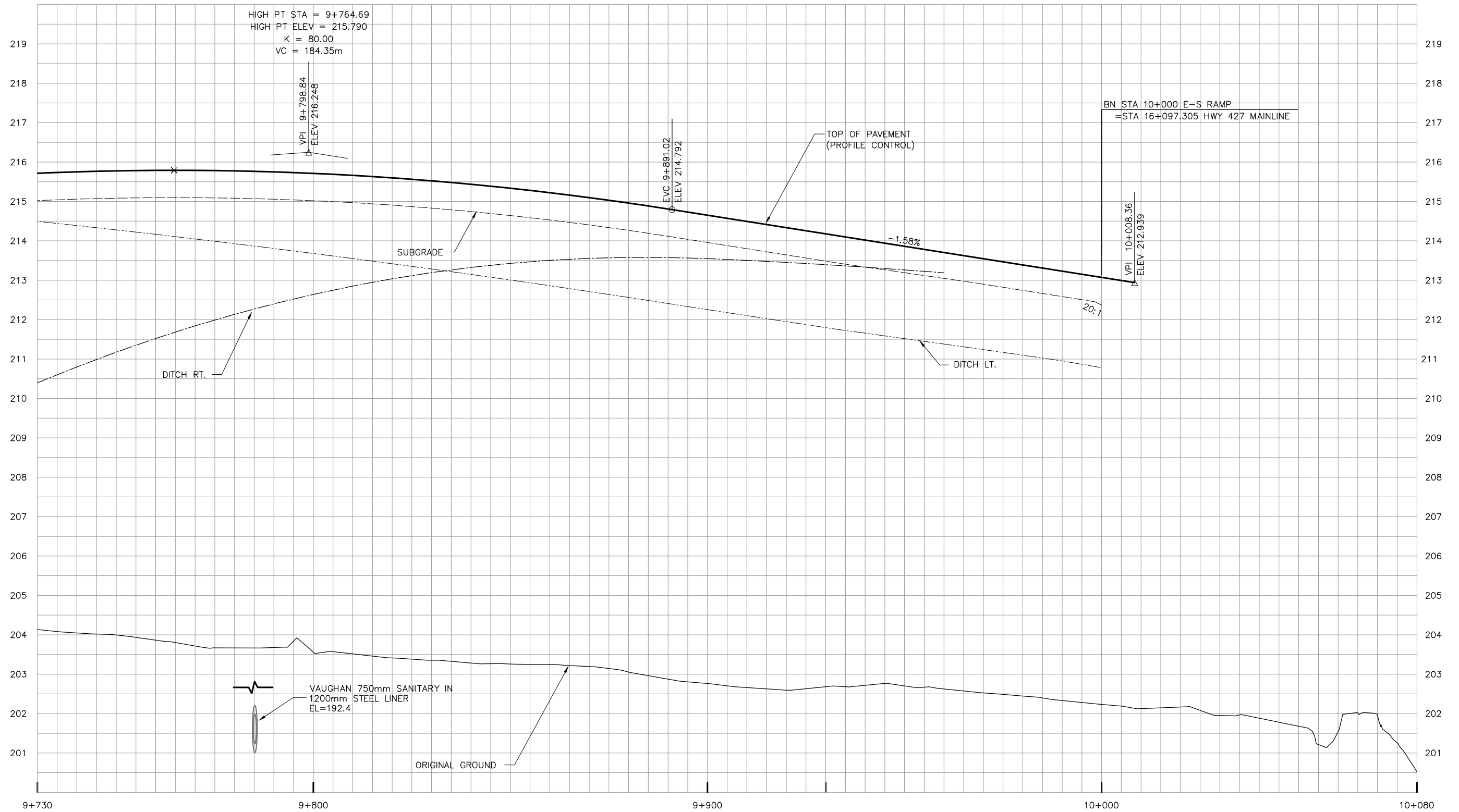


DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENGR.	Jonathan Mohacsi
APPROVED PROJ. MANAGER	Peter Bamforth
NAME (PRINT)	
INIT.	
DATE	

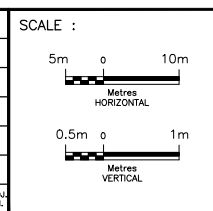


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+380 TO STA. 9+730							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0060	C

MAJOR MACKENZIE E-S RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



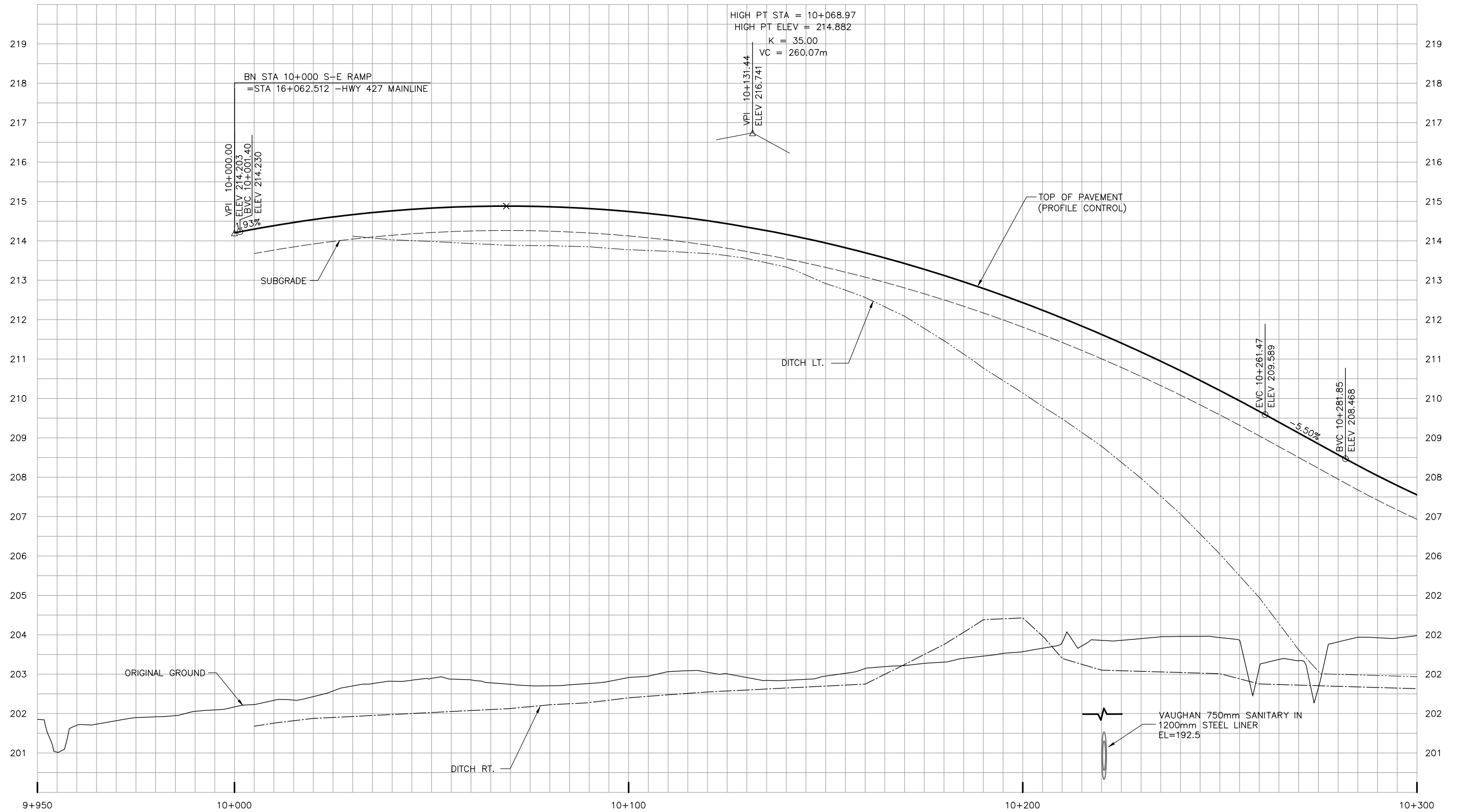
DESIGNED	Sharm Talagala	
DRAWN	Arash Khaleghi	
CHECKED	Duncan Campbell	
APPROVED LEAD ENGR.	Jonathan Mohacsi	
APPROVED PROJ. MANAGER	Peter Bamforth	
NAME (PRINT)	INIT.	DATE

CONSULTANT		
DESIGNED	Sharm Talagala	
DRAWN	Arash Khaleghi	
CHECKED	Duncan Campbell	
APPROVED LEAD ENGR.	Jonathan Mohacsi	
APPROVED PROJ. MANAGER	Peter Bamforth	
NAME (PRINT)	INIT.	DATE

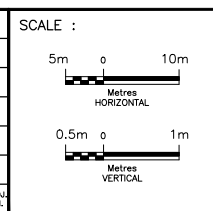


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+730 TO STA. 10+008							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0061	C

MAJOR MACKENZIE S-E RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



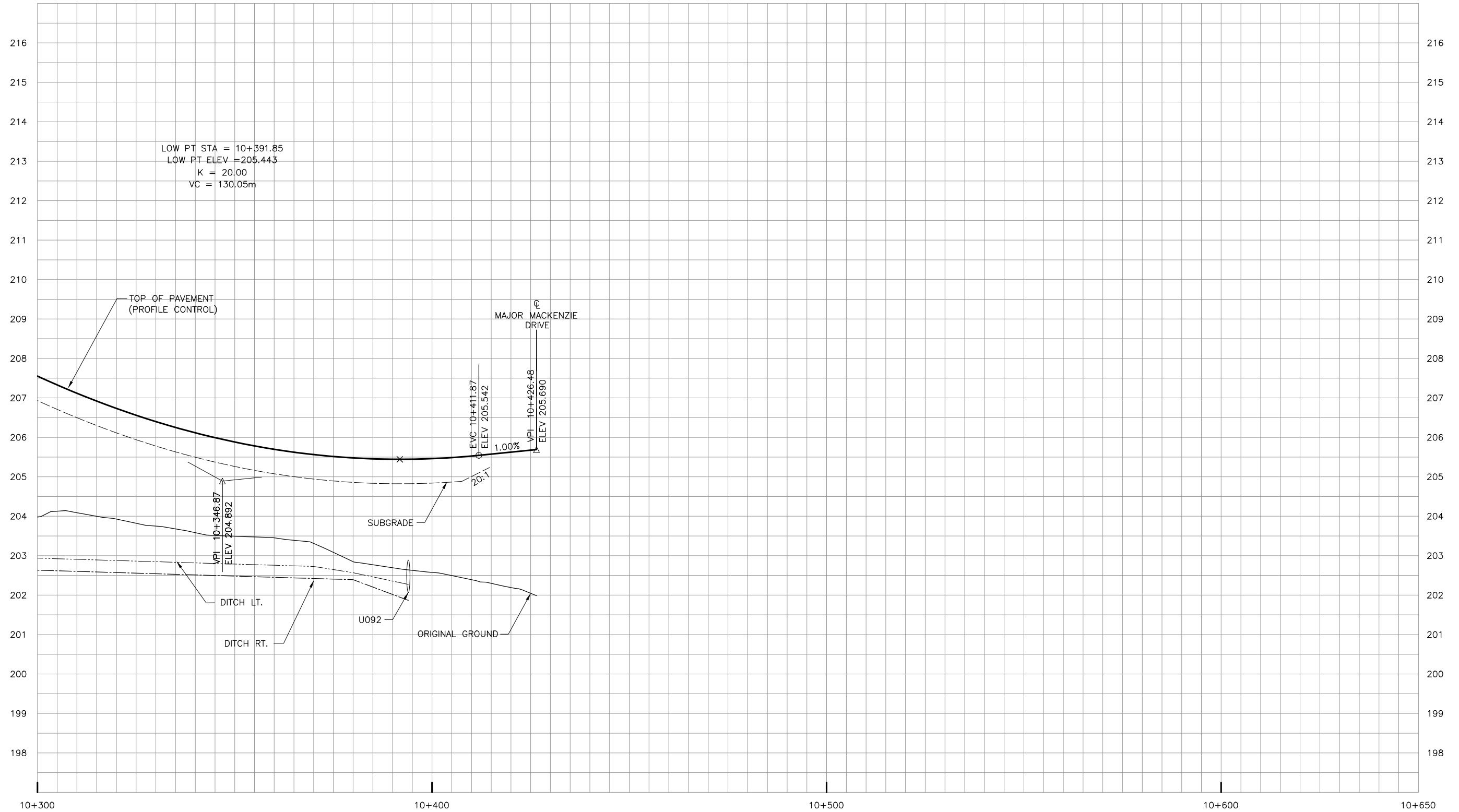
DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENGR.	Jonathan Mohacsi
APPROVED PROJ. MANAGER	Peter Bamforth
NAME (PRINT)	INIT. DATE

CONSULTANT	
DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENGR.	Jonathan Mohacsi
APPROVED PROJ. MANAGER	Peter Bamforth
NAME (PRINT)	INIT. DATE

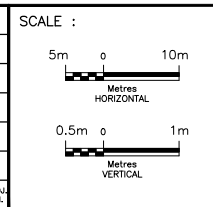


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 10+000 TO STA. 10+300							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0062	C

MAJOR MACKENZIE S-E RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



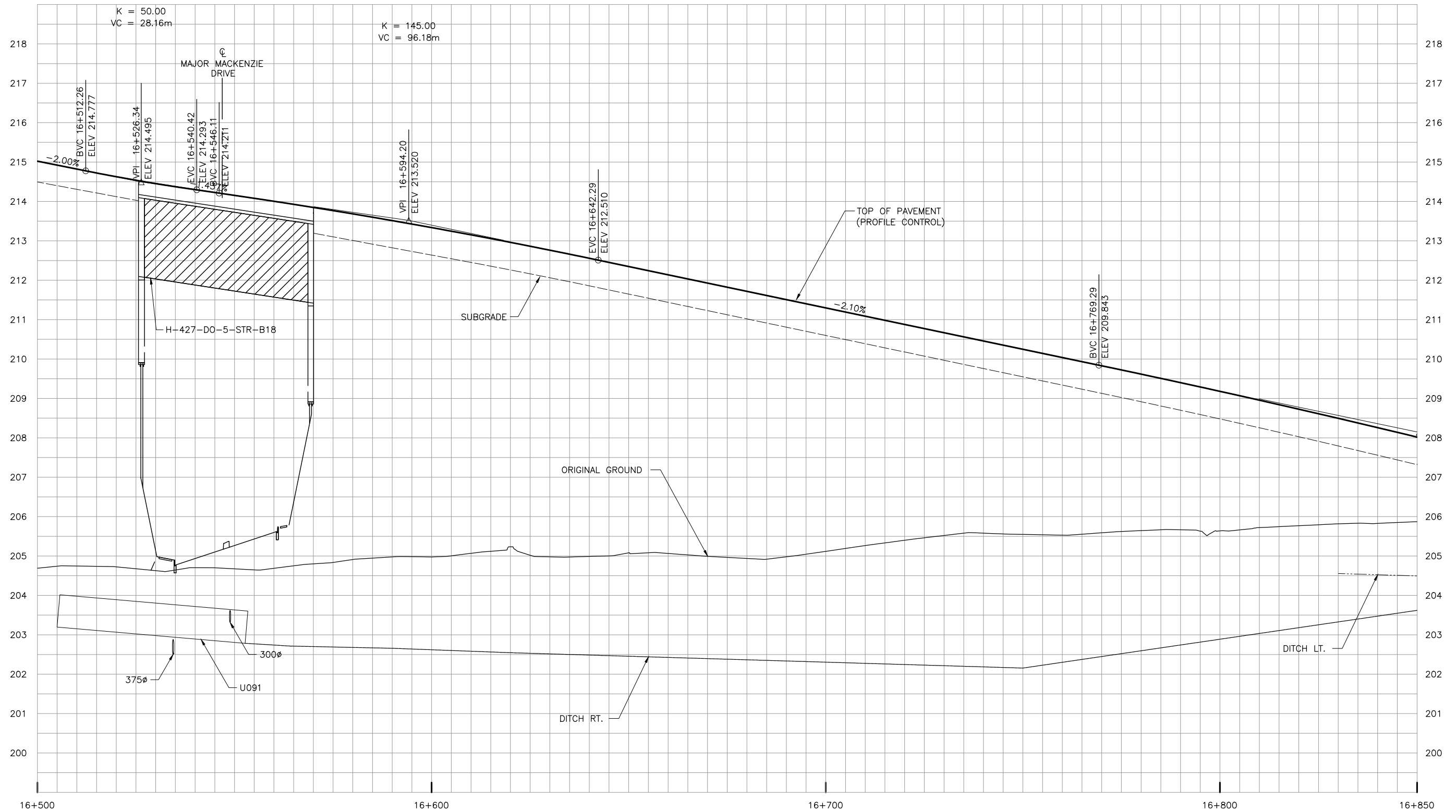
DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENG.	Jonathan Mohacsi
APPROVED PROJ. MANAGER	Peter Bamforth

CONSULTANT	
NAME (PRINT)	
INIT.	
DATE	

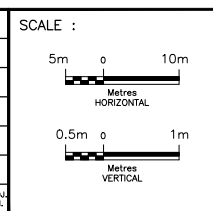


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 10+300 TO STA. 10+427							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0063	C

MAJOR MACKENZIE S-W RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



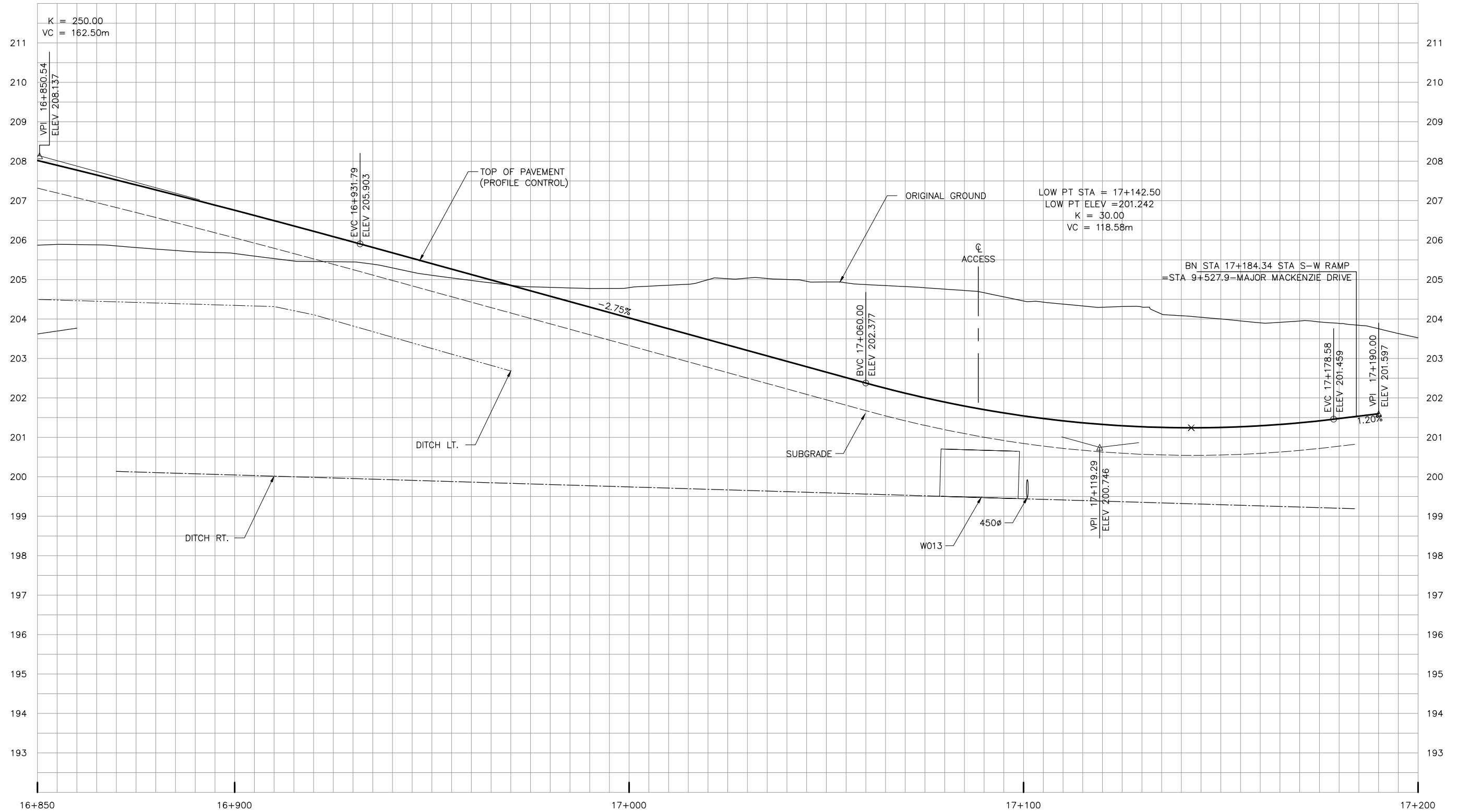
DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENG.	Jonathan Mohacsi
APPROVED PROJ. MANAGER	Peter Bamforth
NAME (PRINT)	INIT. DATE

CONSULTANT	
DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENG.	Jonathan Mohacsi
APPROVED PROJ. MANAGER	Peter Bamforth
NAME (PRINT)	INIT. DATE

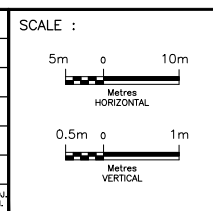


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 16+500 TO STA. 16+850							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0064	C

MAJOR MACKENZIE S-W RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

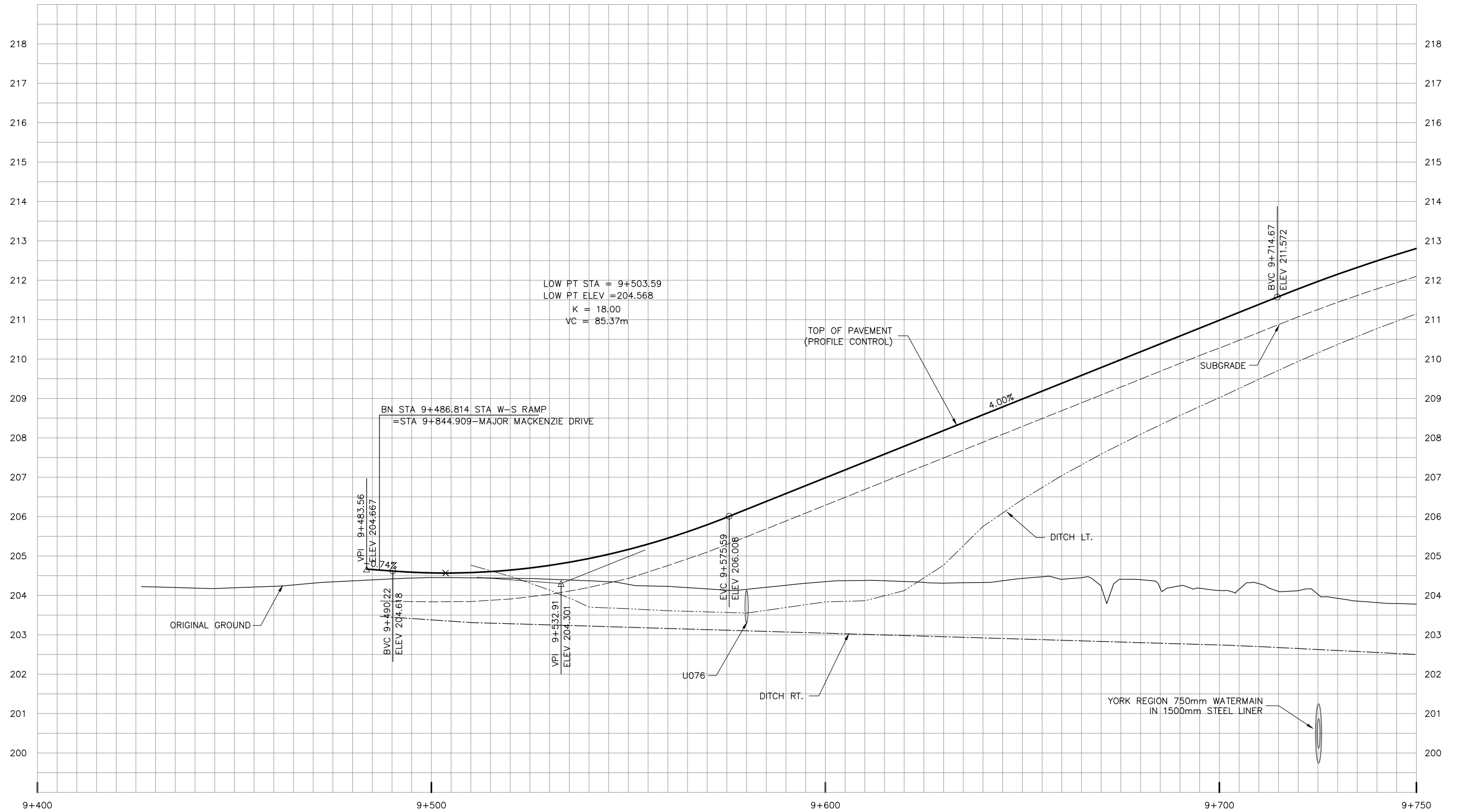


DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENG.	Jonathan Mohacsi
APPROVED PROJ. MANAGER	Peter Bamforth
NAME (PRINT)	
INIT.	
DATE	

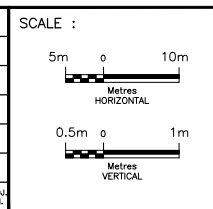


HWY 427 EXPANSION							
PROFILE STA. 16+850 TO STA. 17+200							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0065	C

MAJOR MACKENZIE W-S RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



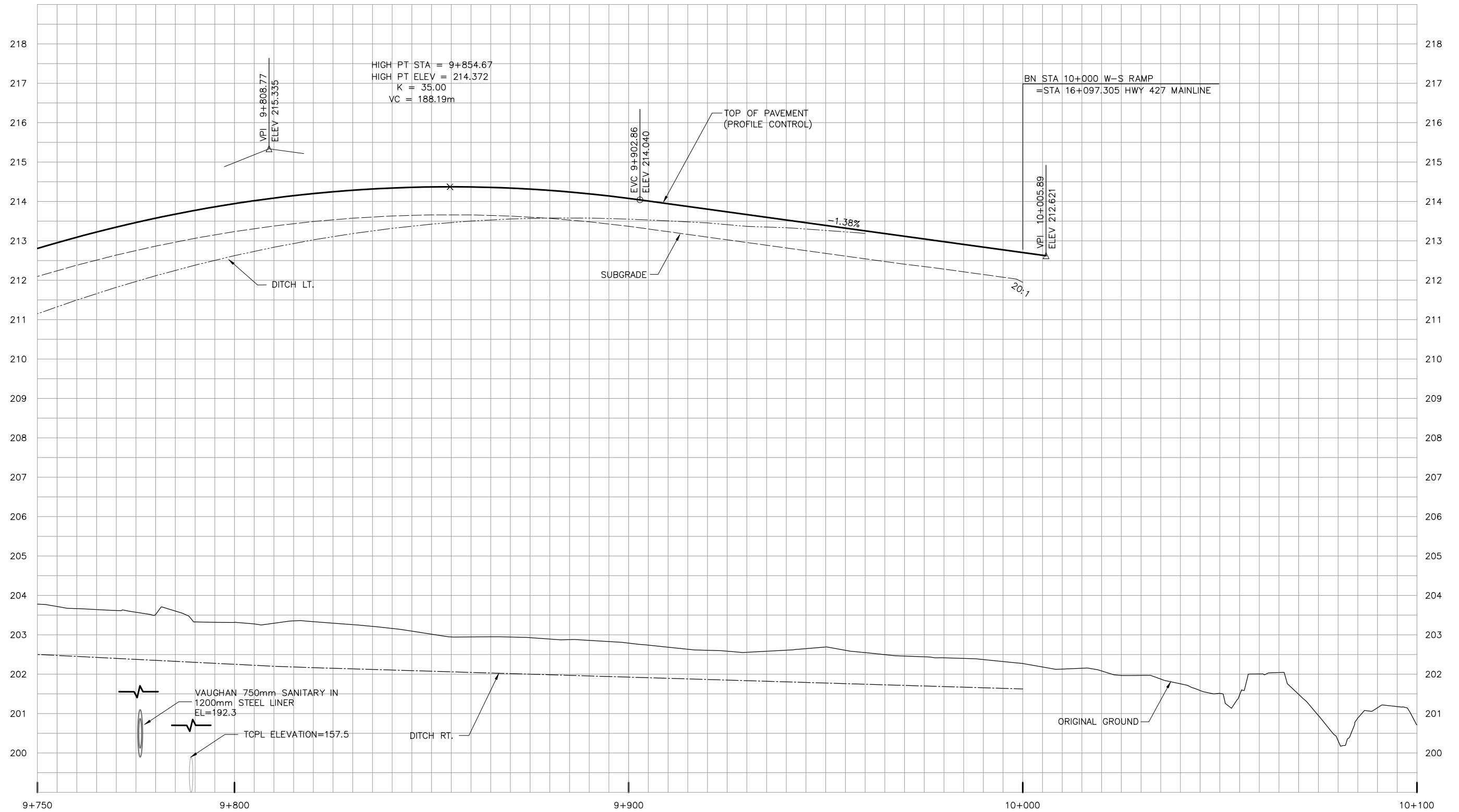
DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENG.	Jonathan Mohacsi
APPROVED PROJ. MANAGER	Peter Bamforth

NAME (PRINT)	INIT.	DATE

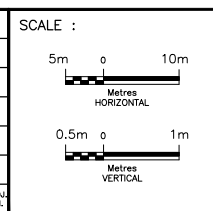


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+400 TO STA. 9+750							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0066	C

MAJOR MACKENZIE W-S RAMP



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



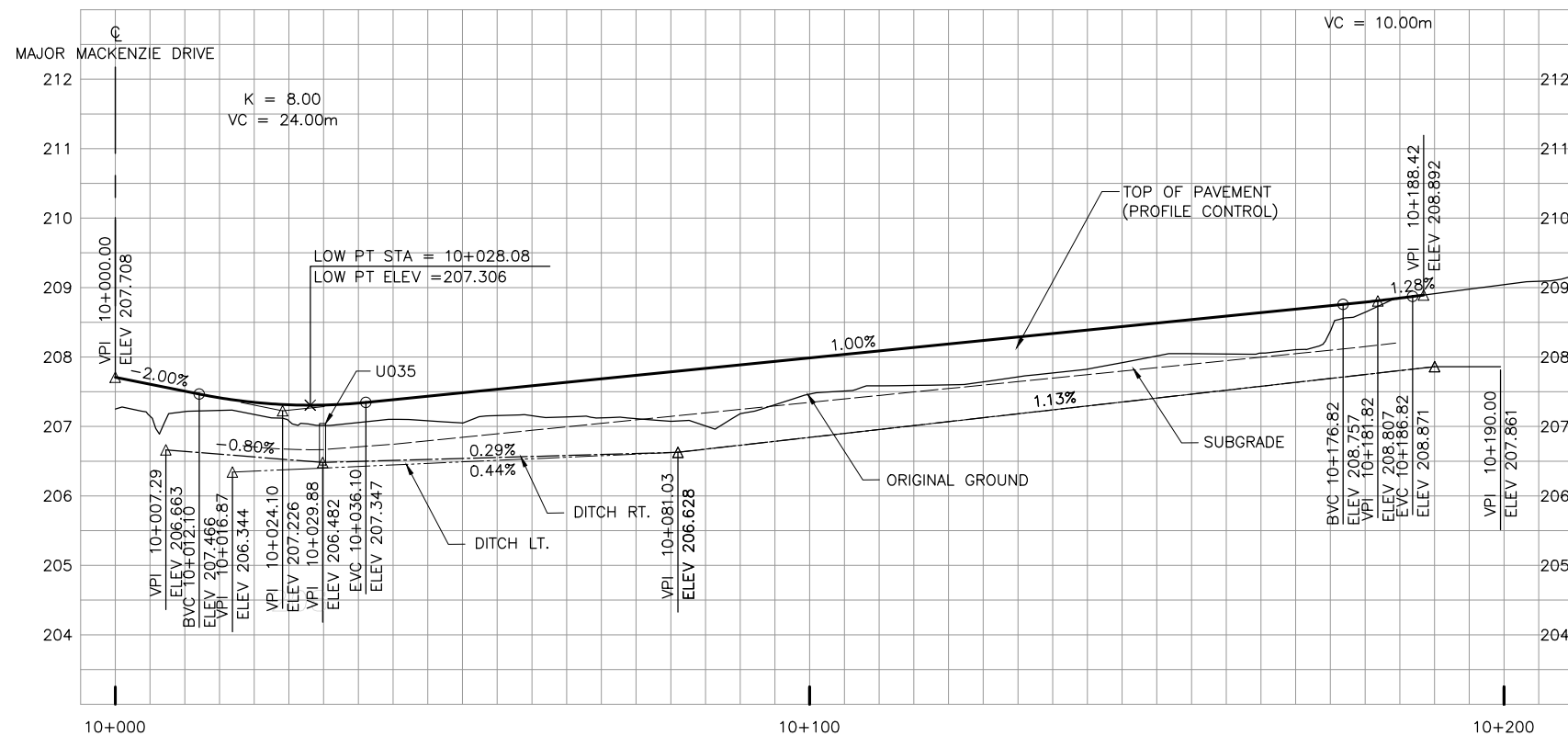
DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENG.	Jonathan Mohasi
APPROVED PROJ. MANAGER	Peter Bamforth

CONSULTANT	NAME (PRINT)	INIT.	DATE

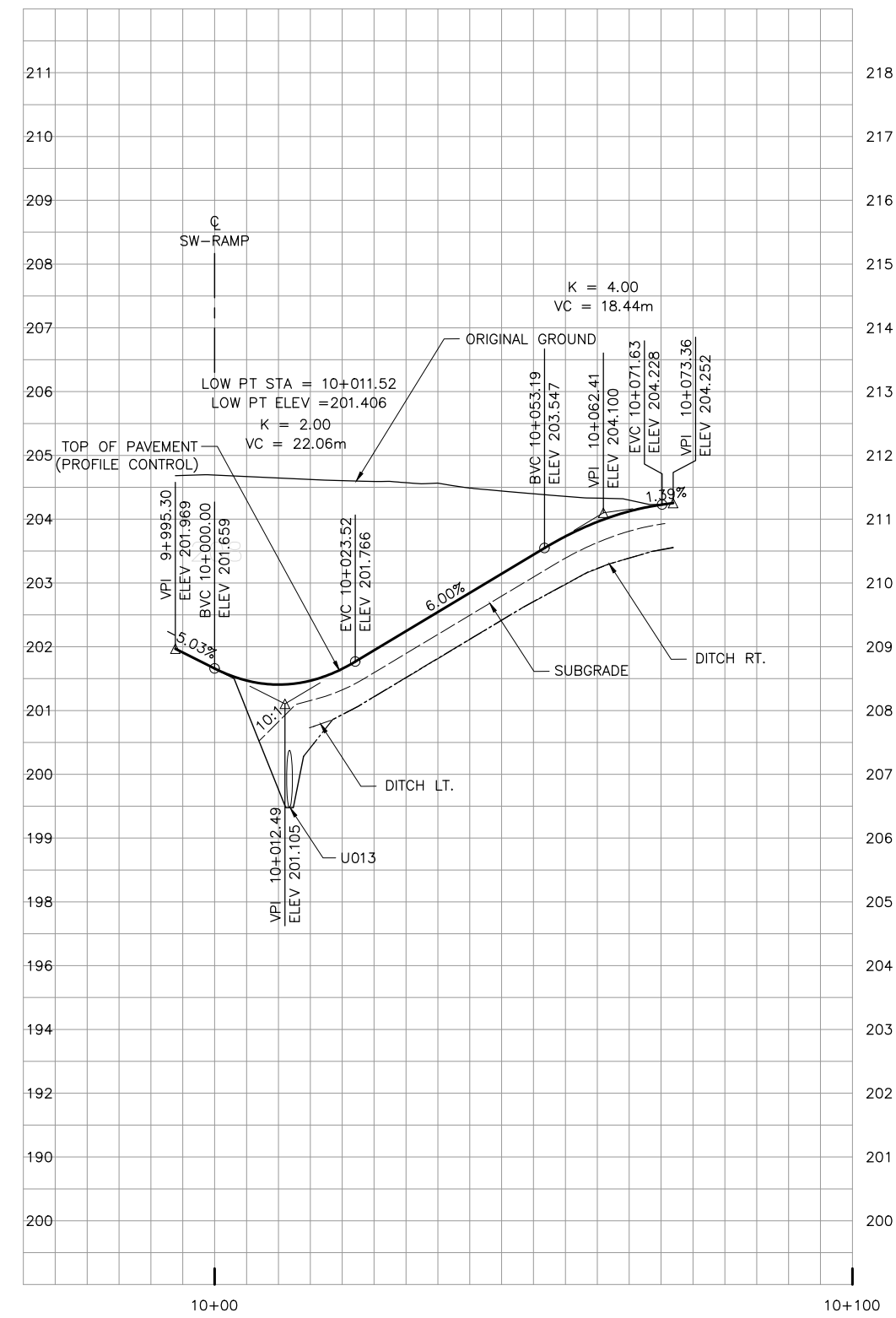


TITLE							
HWY 427 EXPANSION							
PROFILE							
STA. 9+750 TO STA. 10+000							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0067	C

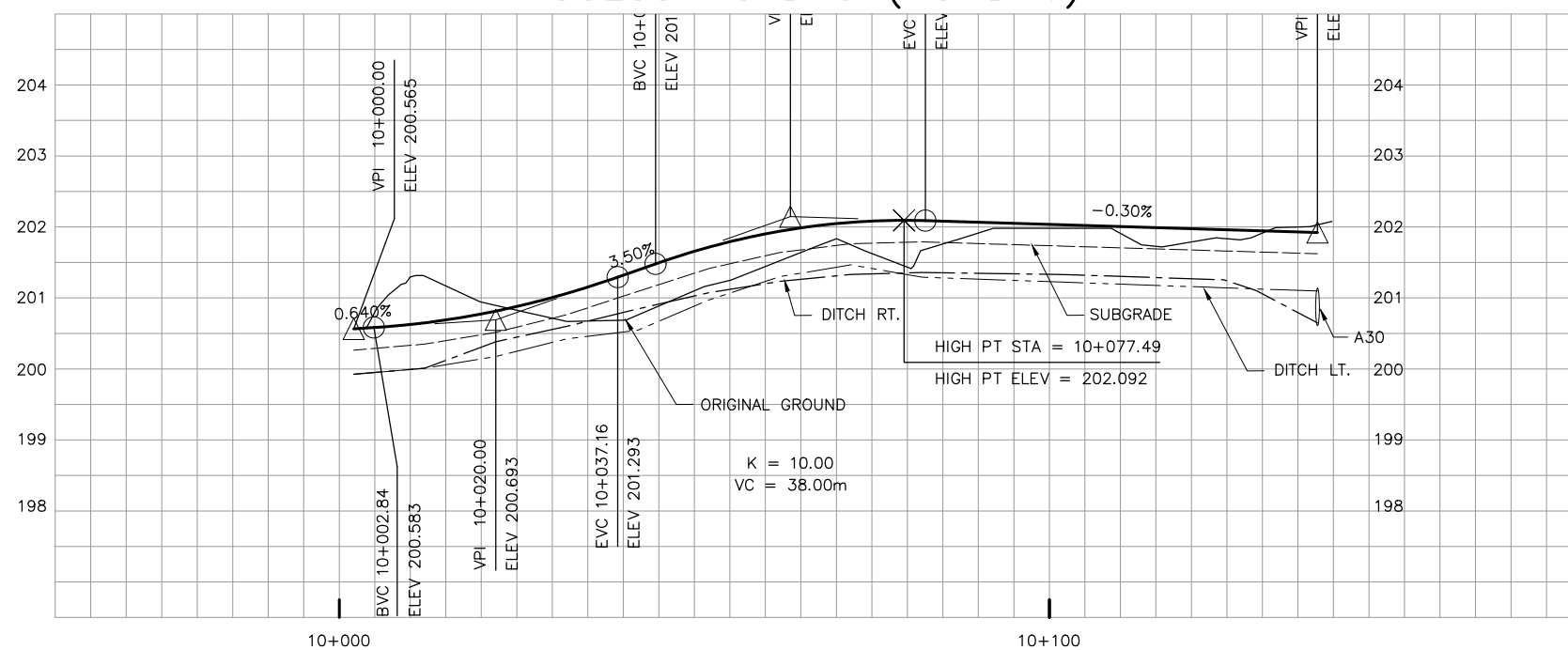
GUSGO ACCESS ROAD



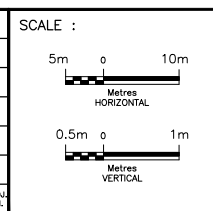
ACCESS ROAD FROM S/W RAMP



ACCESS ROAD 5 (POND 6)



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
					DISC.	MAN.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

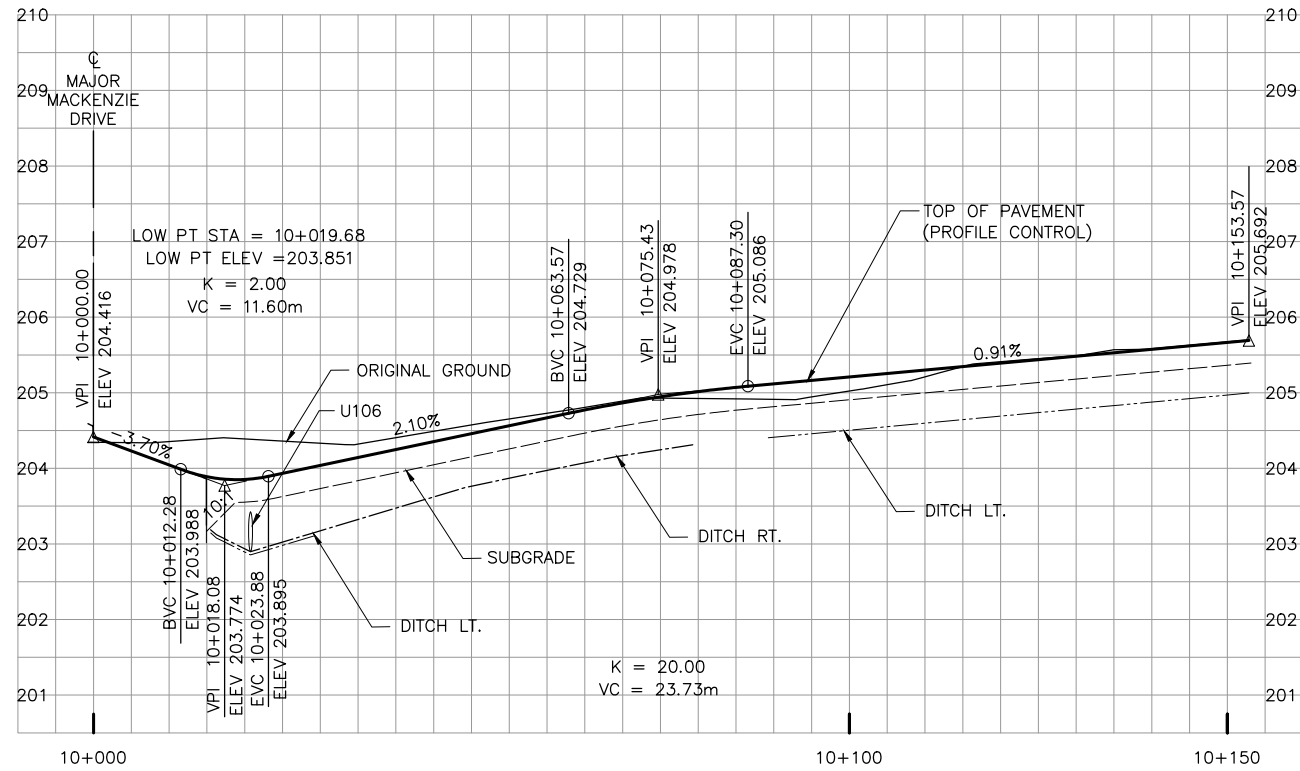


DESIGNED	Sharm Talagala		
DRAWN	Arash Khaleghi		
CHECKED	Duncan Campbell		
APPROVED LEAD ENG.	Jonathan Mahasi		
APPROVED PROJ. MANAGER	Peter Bamforth		
NAME (PRINT)		INIT.	DATE

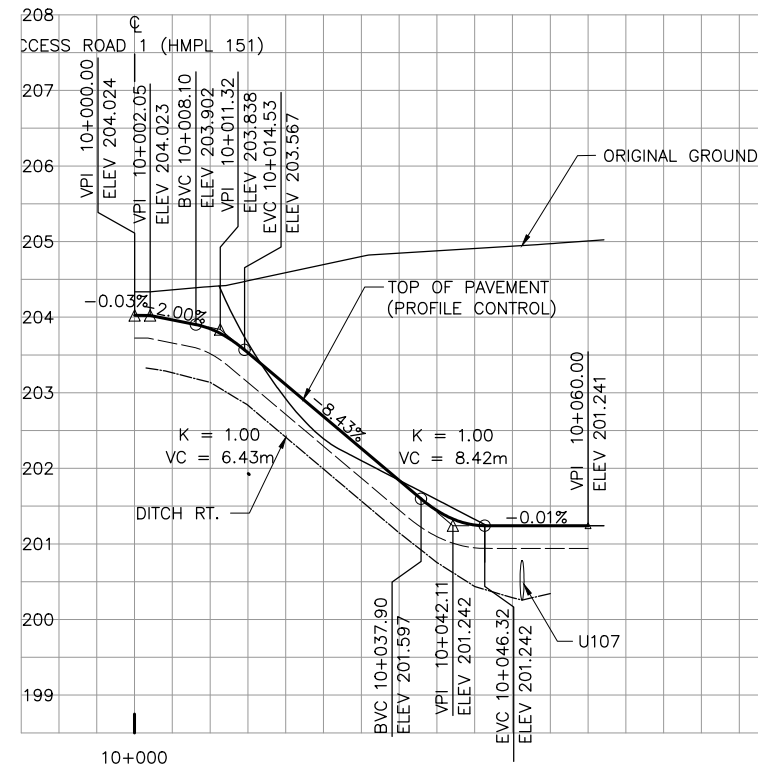


TITLE							
HWY 427 EXPANSION							
ACCESS ROAD PROFILE							
STA. 10+000 TO STA. 10+189							
STA. 10+000 TO STA. 10+174							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0068	C

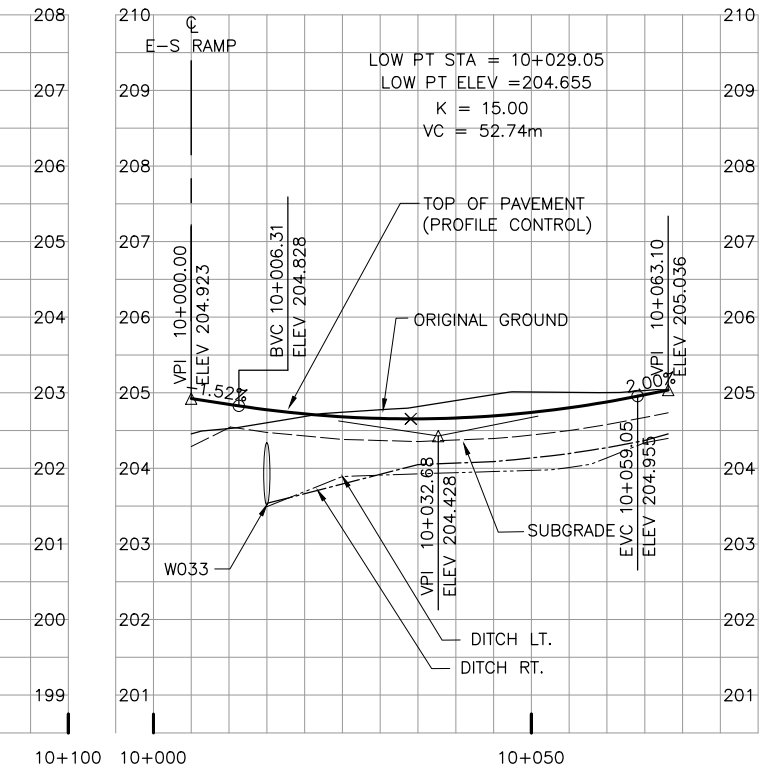
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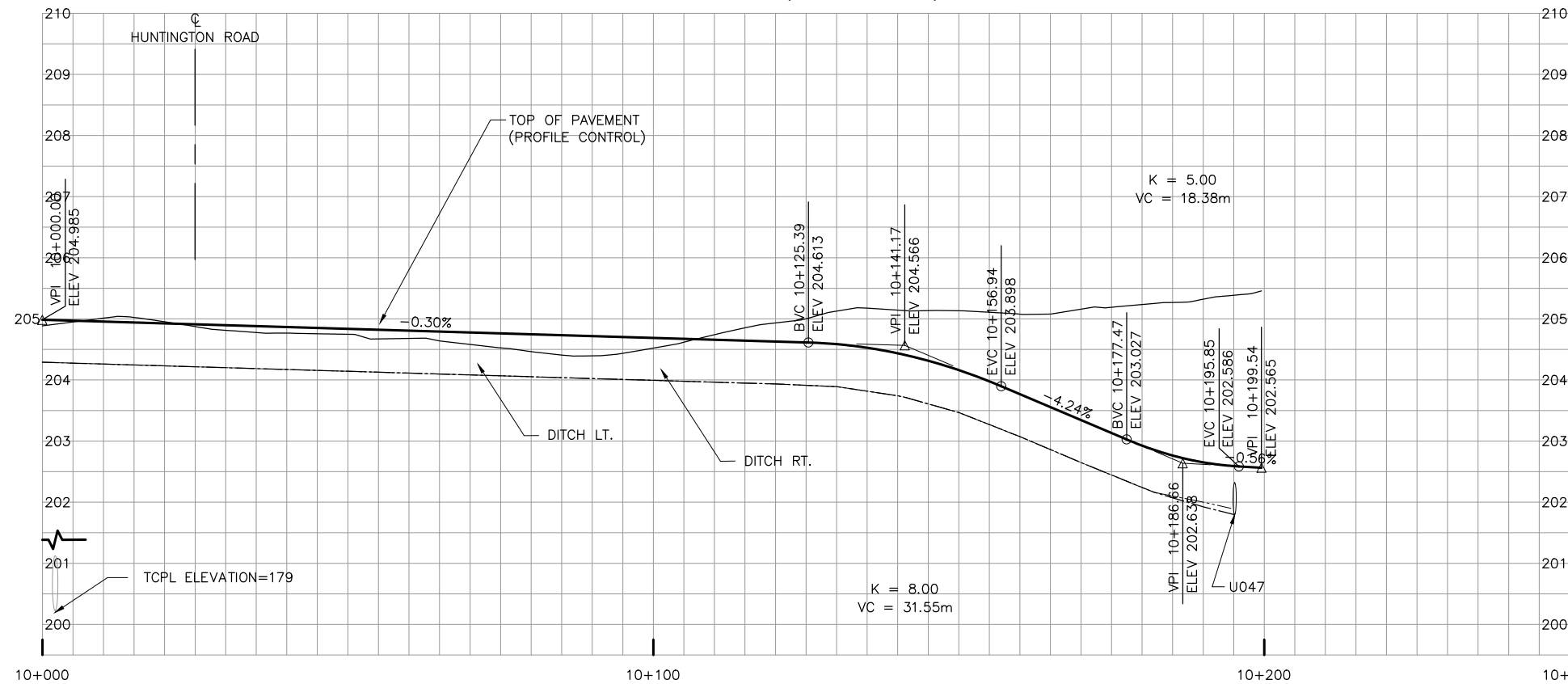
ACCESS ROAD 3 (POND 8)



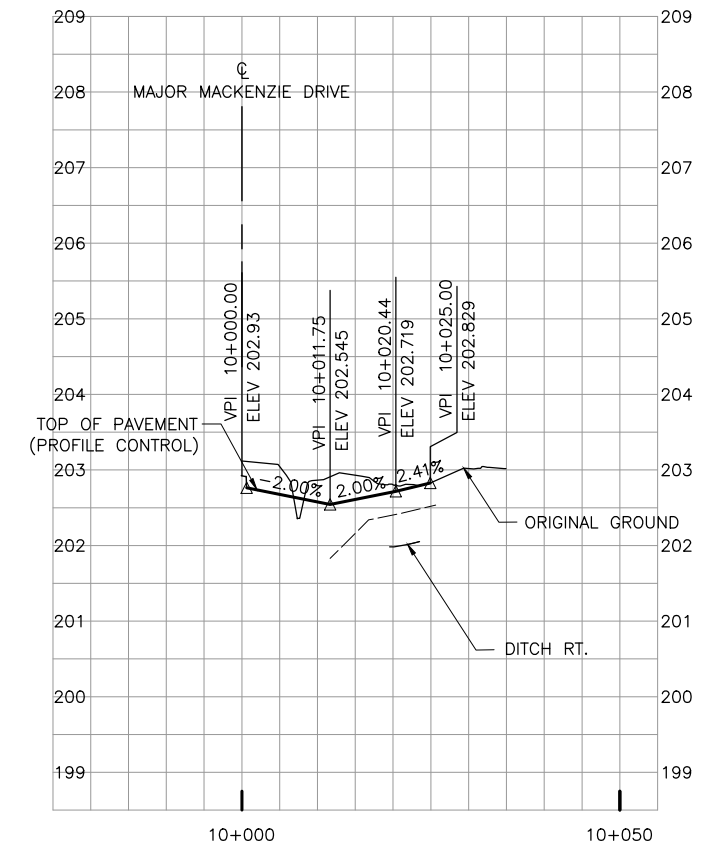
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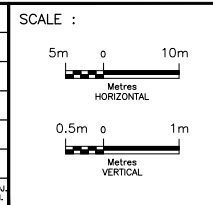
ACCESS ROAD 4 (POND 7)



CEMETERY ENTRANCE



NO.	DATE	REVISIONS	BY	CHK	LEAD	PROJ.
					ENG.	MAN.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



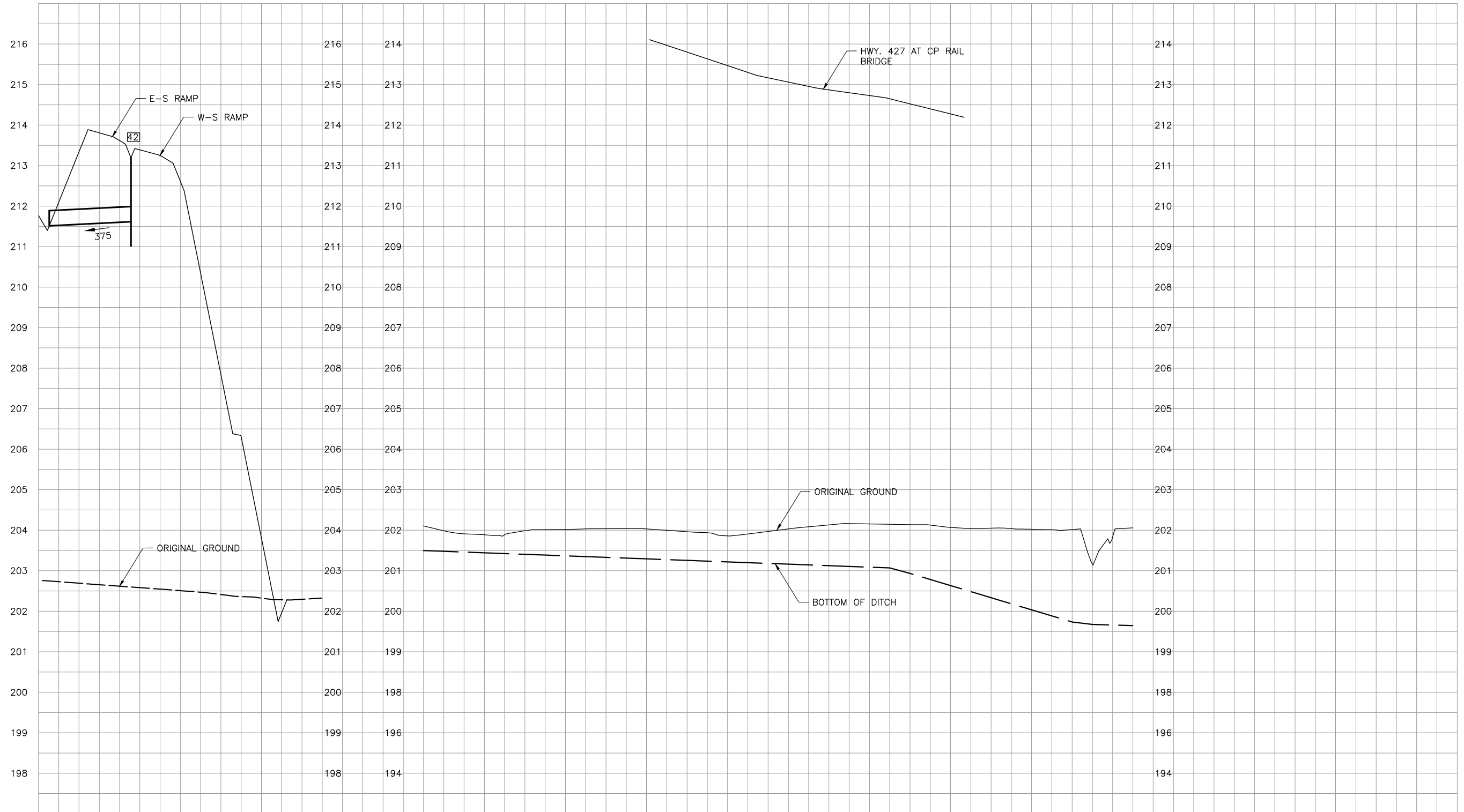
DESIGNED	Sharm Talagala	
DRAWN	Arash Khaleghi	
CHECKED	Duncan Campbell	
APPROVED LEAD ENG.	Jonathan Mahasi	
APPROVED PROJ. MANAGER	Peter Bamforth	
NAME (PRINT)	INIT.	DATE



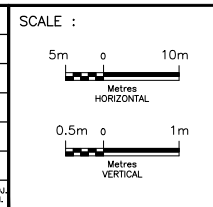
TITLE							
HWY 427 EXPANSION							
ACCESS ROAD PROFILE							
STA. 10+000 TO STA. 10+060							
STA. 10+000 TO STA. 10+154							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0069	C

W-S RAMP STA. 9+979

DITCH CROSSING AT CP RAIL



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

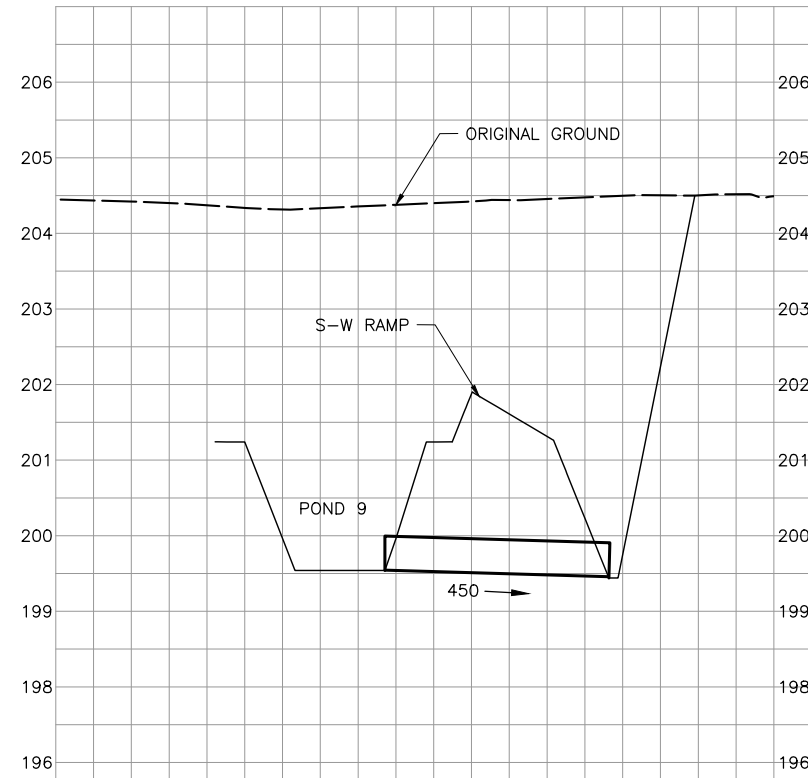


DESIGNED	Sharm Talagala	
DRAWN	Arash Khaleghi	
CHECKED	Duncan Campbell	
APPROVED LEAD ENG.	Jonathan Mohacsi	
APPROVED PROJ. MANAGER	Peter Bamforth	
NAME (PRINT)	INIT.	DATE

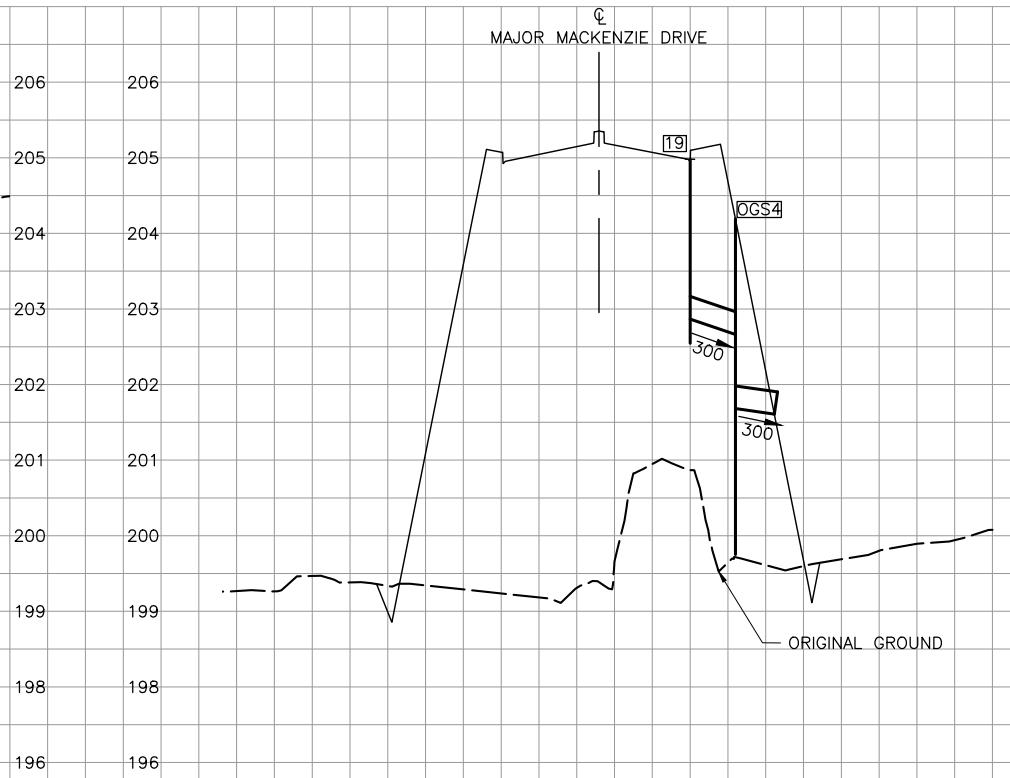


TITLE							
HWY 427 EXPANSION DRAINAGE PROFILES							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0070	C

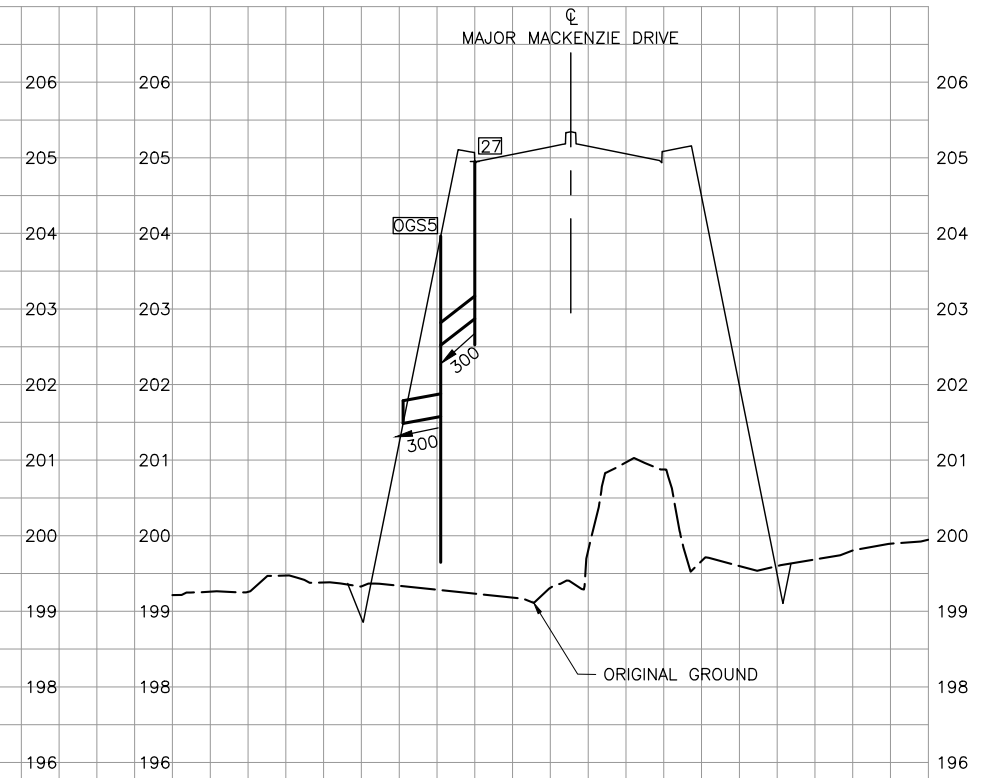
POND 9 OUTLET



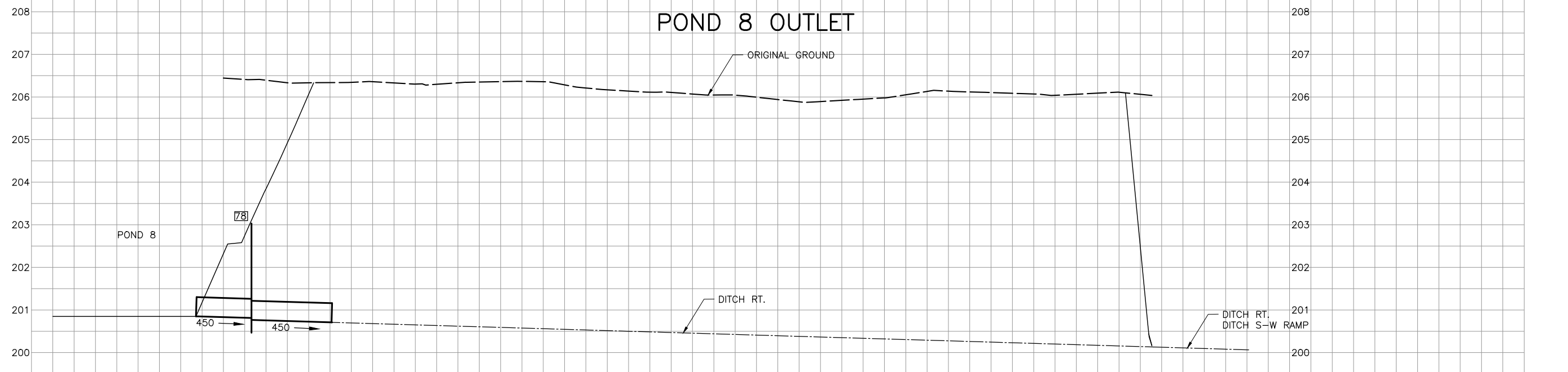
MAJOR MACKENZIE DRIVE STA. 9+393



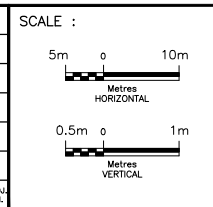
MAJOR MACKENZIE DRIVE STA. 9+394



POND 8 OUTLET



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

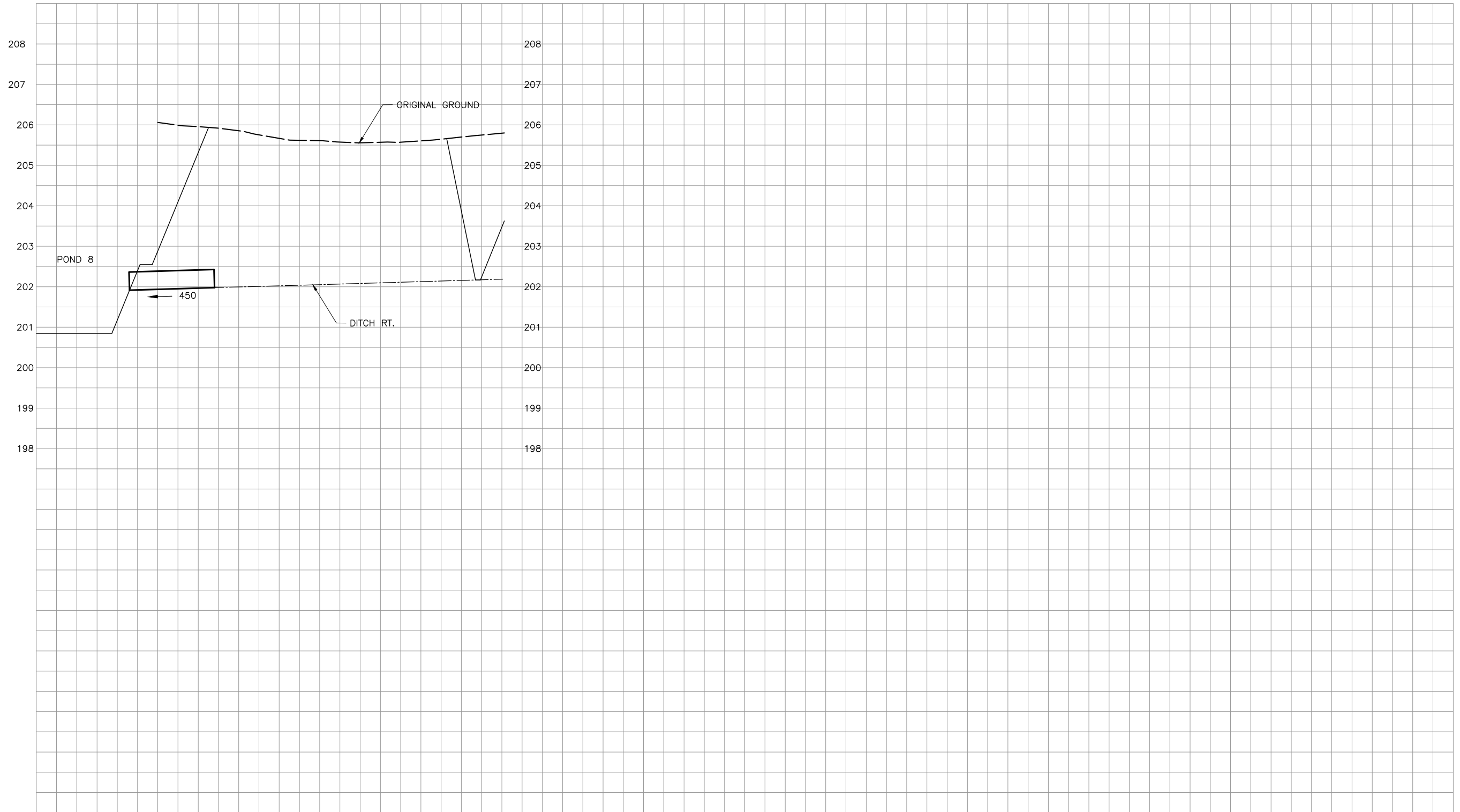


DESIGNED	Sharm Talagala	
DRAWN	Arash Khaleghi	
CHECKED	Duncan Campbell	
APPROVED LEAD ENG.	Jonathan Mohasi	
APPROVED PROJ. MANAGER	Peter Bamforth	
NAME (PRINT)	INIT.	DATE

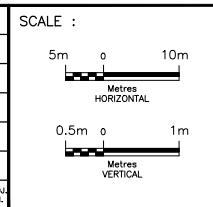


TITLE							
HWY 427 EXPANSION							
DRAINAGE PROFILES							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0071	C

POND 8 OUTLET



NO.	DATE	REVISIONS	BY	CHK	LEAD DISC.	PROJ. MAN.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				



DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENG.	Jonathan Mohacsi
APPROVED PROJ. MANAGER	Peter Bamforth
NAME (PRINT)	
INIT.	
DATE	



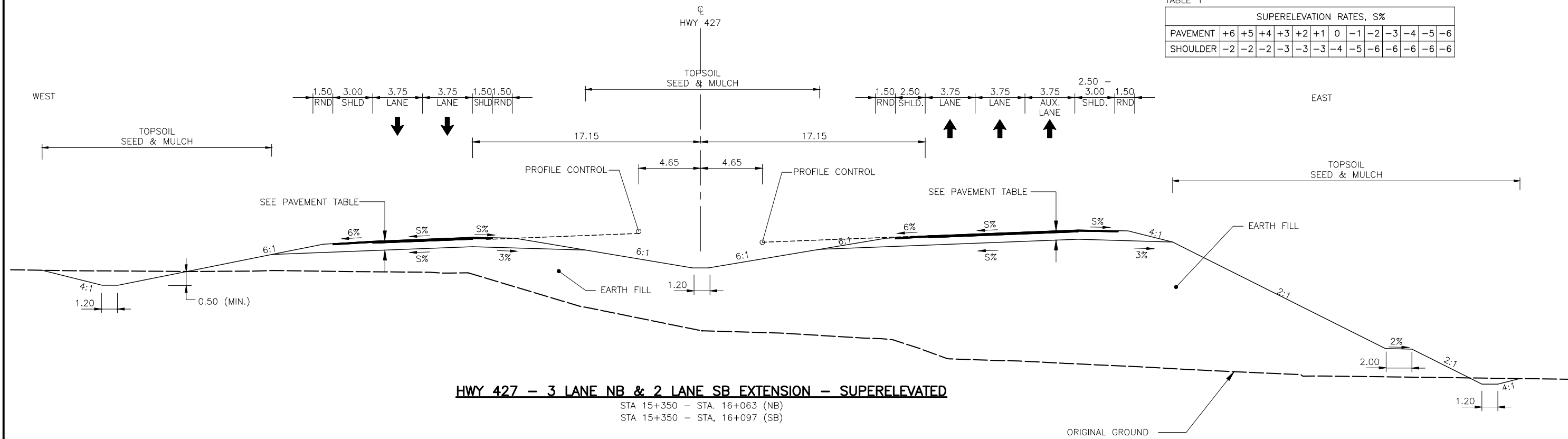
TITLE							
HWY 427 EXPANSION							
DRAINAGE PROFILES							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0072	C

NOTES:

1. FORESLOPE:
WHERE $h < 3m$, SLOPE SHALL BE 6:1
WHERE $3m < h < 4.5m$, SLOPE SHALL BE 5:1
WHERE $4.5m < h < 6m$, SLOPE SHALL BE 4:1
WHERE $h > 6m$, SLOPE SHALL BE 2:1
WITH 2m BENCHING EVERY 6m IN HEIGHT
2. BACKSLOPE:
WHERE $H < 3m$, SLOPE SHALL BE 3:1
WHERE $H > 3m$, SLOPE SHALL BE 2:1
WITH 2m BENCHING EVERY 6m IN HEIGHT
3. GRANULAR SEALING TO BE APPLIED PER OPSD 210.070
4. SHOULDER RUMBLE STRIPS TO BE CONSTRUCTED PER MTOD 503 SERIES
5. SBGR AS PER FUTURE PACKAGE
6. EROSION CONTROL BLANKET SHALL BE USED ON SLOPE STEEPER THAN 3:1

TABLE 1

SUPERELEVATION RATES, S%													
PAVEMENT	+6	+5	+4	+3	+2	+1	0	-1	-2	-3	-4	-5	-6
SHOULDER	-2	-2	-2	-3	-3	-3	-4	-5	-6	-6	-6	-6	-6



NO.	DATE	REVISIONS	BY	CHK	LEAD. DISC.	PROJ. MAN.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

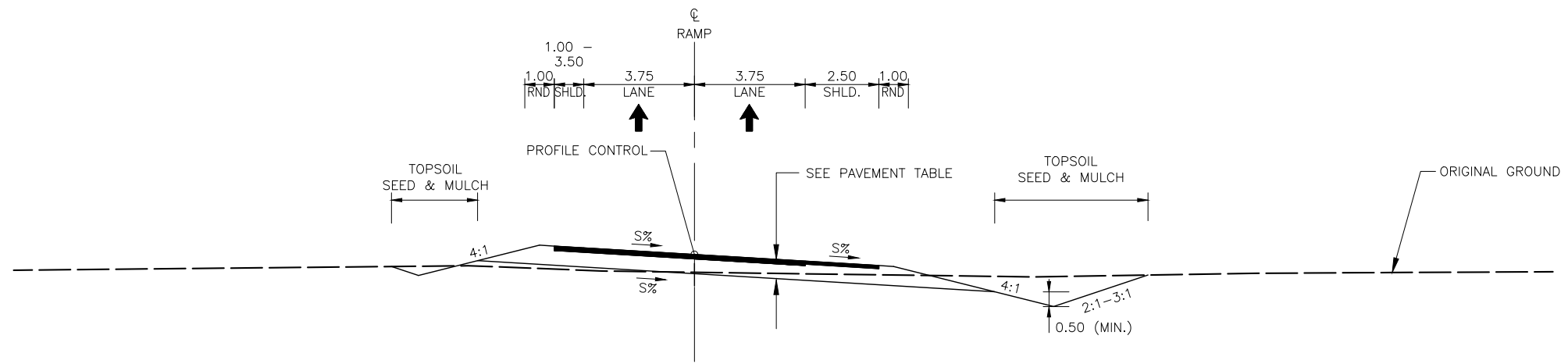
SCALE :

N.T.S

CONSULTANT	DESIGNED	Sharm Talagala	INIT.	DATE
	DRAWN	Arash Khaleghi		
	CHECKED	Duncan Campbell		
	APPROVED LEAD ENGINEER	Jonathan Mahacsi		
	APPROVED PROJ. MANAGER	Peter Bamforth		



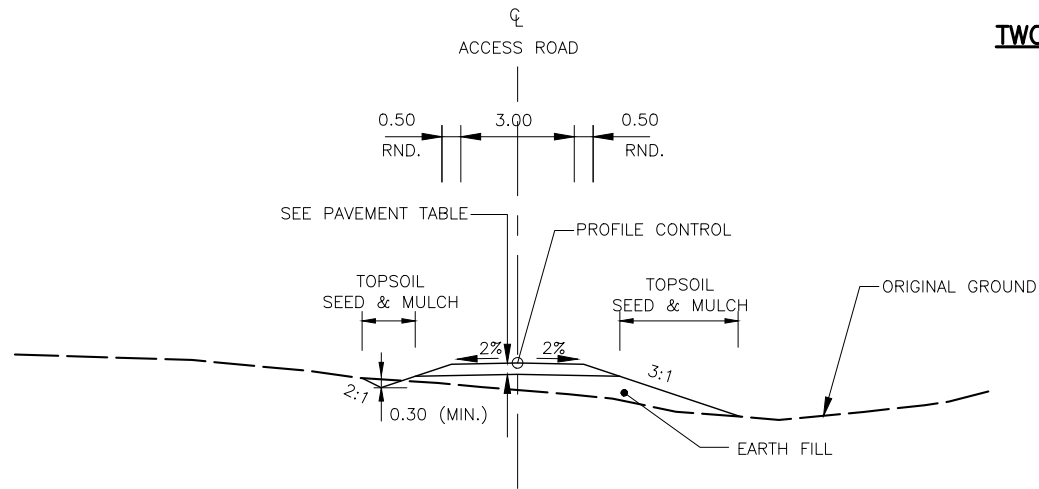
TITLE							
HWY 427 EXPANSION							
TYPICAL SECTIONS							
HIGHWAY 427 MAINLINE							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0073	C



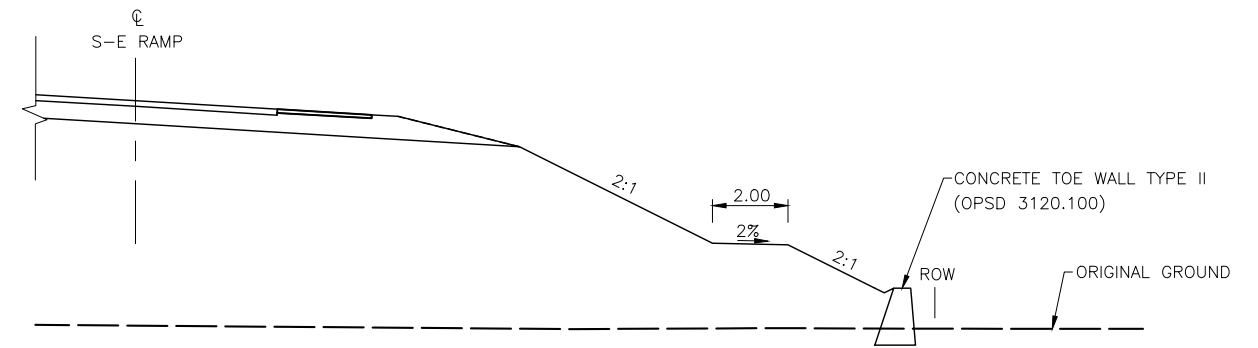
- NOTES:
1. FORESLOPE:
WHERE $h < 6m$, SLOPE SHALL BE 4:1
WHERE $h > 6m$, SLOPE SHALL BE 2:1
WITH 2m BENCHING EVERY 6m IN HEIGHT
 2. BACKSLOPE:
WHERE $h < 3m$, SLOPE SHALL BE 3:1
WHERE $h > 3m$, SLOPE SHALL BE 2:1
WITH 2m BENCHING EVERY 6m IN HEIGHT
 3. GRANULAR SEALING TO BE APPLIED PER OPSD 210.070
 4. SBGR AS PER FUTURE PACKAGE
 5. EROSION CONTROL BLANKET SHALL BE USED ON SLOPE STEEPER THAN 3:1

SUPERELEVATION RATES, S%												
PAVEMENT	+6	+5	+4	+3	+2	+1	0	-1	-2	-3	-4	-6
SHOULDER	-2	-2	-2	-3	-3	-3	-4	-5	-6	-6	-6	-6

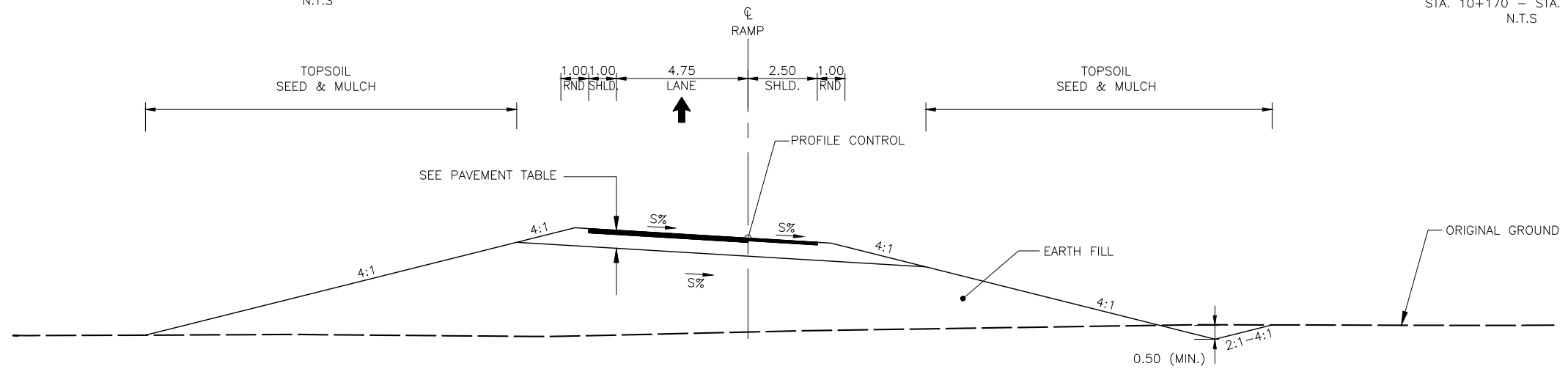
TWO-LANE RAMP



HMLP/SWM ACCESS ROAD
N.T.S.



MAJOR MACKENZIE DRIVE S-E RAMP CONCRETE TOE WALL
STA. 10+170 - STA. 10+205
N.T.S.



SINGLE LANE RAMP

NO.	DATE	REVISIONS	BY	CHK	LEAD. DISC.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

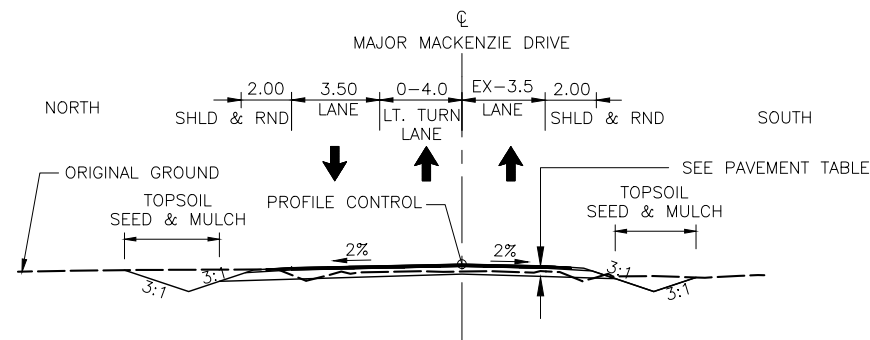
SCALE :

N.T.S.

DESIGNED	Sharm Talagala
DRAWN	Arash Khaleghi
CHECKED	Duncan Campbell
APPROVED LEAD ENGINEER	Jonathan Mahacsi
APPROVED PROJ. MANAGER	Peter Bamforth
CONSULTANT	
NAME (PRINT)	
INIT.	
DATE	

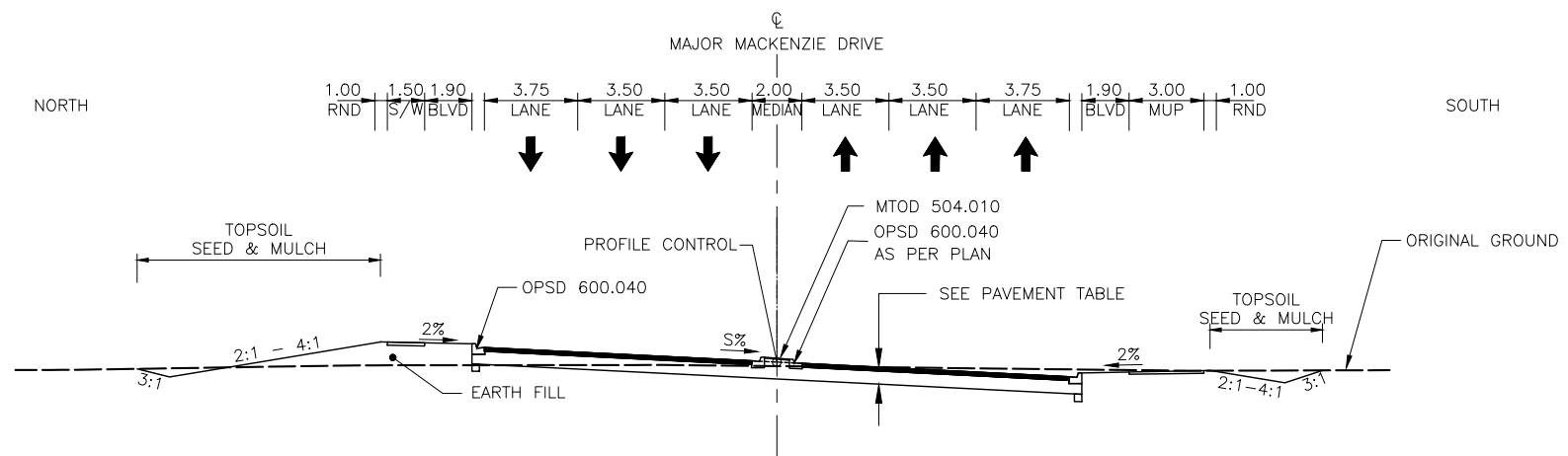


TITLE							
HWY 427 EXPANSION							
RAMPS AND ACCESS ROADS							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0074	C



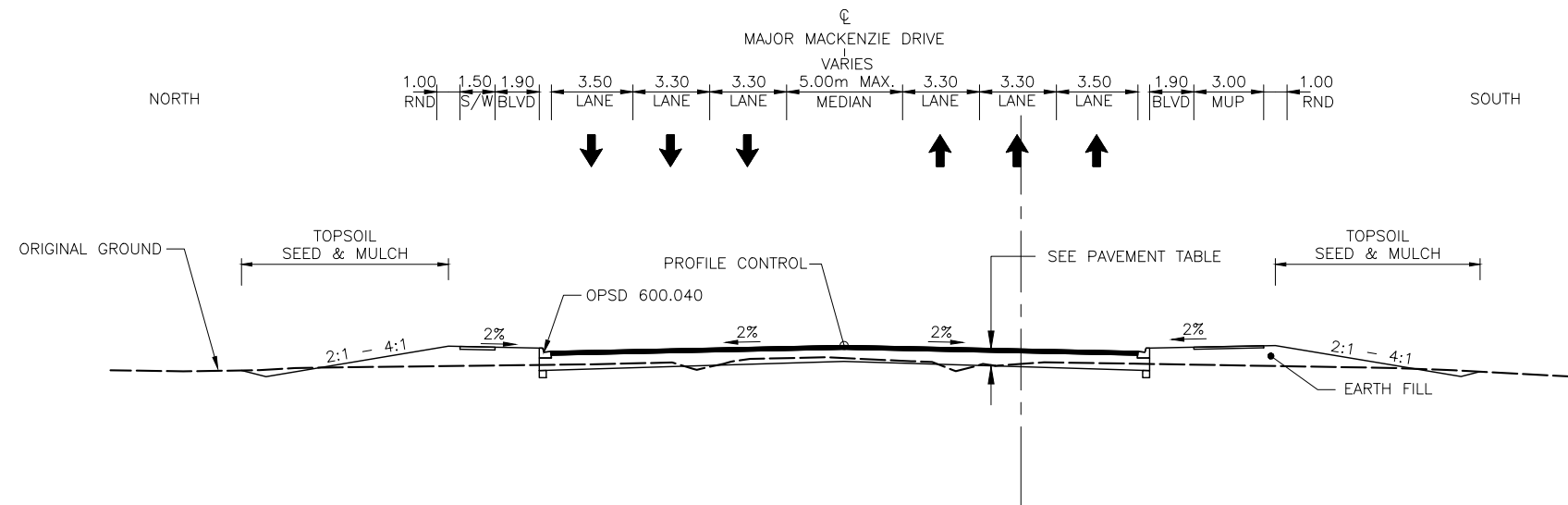
**MAJOR MACKENZIE DRIVE
TWO LANE TRANSITION**

STA. 8+829 - STA. 9+000
STA. 10+560 - STA. 10+870



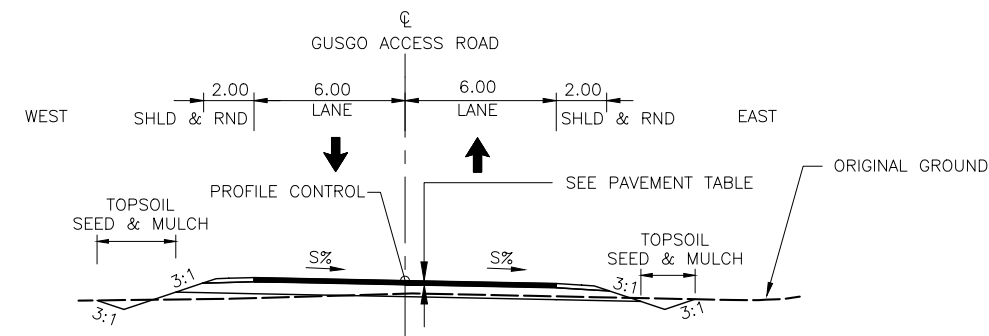
MAJOR MACKENZIE DRIVE (MTO LANE WIDTH) - SUPERELEVATED

STA. 9+110 - STA. 10+506



MAJOR MACKENZIE DRIVE (YORK REGION LANE WIDTH) - TANGENT

STA 9+000 - STA. 9+110
STA 10+506 - STA. 10+560



GUSGO ACCESS ROAD

STA. 10+000 - STA. 10+200

NOTES:

1. FORESLOPE:
WHERE $h < 3m$, SLOPE SHALL BE 4:1
WHERE $h > 3m$, SLOPE SHALL BE 2:1
2. BACKSLOPE:
WHERE $h < 3m$, SLOPE SHALL BE 3:1
WHERE $h > 3m$, SLOPE SHALL BE 2:1
3. GRANULAR SEALING TO BE APPLIED PER OPSD 210.070
4. EROSION CONTROL BLANKET SHALL BE USED ON SLOPE STEEPER THAN 3:1

SUPERELEVATION RATES, S%													
PAVEMENT	+6	+5	+4	+3	+2	+1	0	-1	-2	-3	-4	-5	-6
SHOULDER	-2	-2	-2	-3	-3	-3	-4	-5	-6	-6	-6	-6	-6

NO.	DATE	REVISIONS	BY	CHK	LEAD. ENGR.	PROJ. MGR.
C	18/03/02	90% SUBMISSION TO CA				
B	18/01/05	90% SUBMISSION TO CA				
A	17/12/01	90% SUBMISSION TO CA				

SCALE :

N.T.S

CONSULTANT	DESIGNED	Sharm Talagala	INIT.	DATE
	DRAWN	Arash Khaleghi		
	CHECKED	Duncan Campbell		
	APPROVED LEAD ENGINEER	Jonathan Mahacsi		
	APPROVED PROJ. MANAGER	Peter Bamforth		



TITLE							
HWY 427 EXPANSION MAJOR MACKENZIE DRIVE							
PROJECT ID.	STAGE IDENTIFIER	DESIGN PACKAGE NUMBER	DISCIPLINE	STRUCTURE NUMBER	DOCUMENT TYPE	DRAWING NUMBER	REVISION NUMBER
H427-D	N	3	HWY	000	DWG	0075	C