ROAD DEVELOPMENT AUTHORITY MINISTRY OF HIGHWAYS AND ROAD DEVELOPMENT THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

> THE DETAILED DESIGN STUDY ON THE OUTER CIRCULAR HIGHWAY TO THE CITY OF COLOMBO

**FINAL REPORT** (FOR NORTHERN SECTION 1)

### VOLUME VI - 3/3: DRAWINGS - CROSS SECTIONS

10 of 10

February 2008

JAPAN INTERNATIONAL COOPERATION AGENCY

**Oriental Consultants Company Limited** 

**Pacific Consultants International** 

No.



ROAD DEVELOPMENT AUTHORITY MINISTRY OF HIGHWAYS AND ROAD DEVELOPMENT THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

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#### INDEX OF DRAWINGS

TITLE	DWG. N
CS1. MAIN CARRIAGEWAY	
CROSS SECTION - MAIN LINE STA. 8+200.000 TO 8+260.000	CS-00
то	то
CROSS SECTION - MAIN LINE STA. 16+240.000 TO 16+300.000	CS-08
CS2. A1 INTERCHANGE	
RAMP-1	
CROSS SECTION - A1 INTERCHANGE RAMP-1 STA. 0+000.000 TO STA. 0+080.000	CS-08
ТО	то
CROSS SECTION - A1 INTERCHANGE RAMP-1 STA. 0+180.000 TO STA. 0+224.733	CS-09
RAMP-2	
CROSS SECTION - A1 INTERCHANGE RAMP-2 STA. 0+224.733 TO STA. 0+280	CS-09
ТО	то
CROSS SECTION - A1 INTERCHANGE RAMP-2 STA. 0+300 TO STA. 0+363.785	CS-09
RAMP-3	
CROSS SECTION - A1 INTERCHANGE RAMP-3 STA. 0+224.733 TO STA. 0+300	CS-09
ТО	то
CROSS SECTION - A1 INTERCHANGE RAMP-3 STA. 0+320 TO STA. 0+361.835	CS-09
RAMP-4	
CROSS SECTION - A1 INTERCHANGE RAMP-4 STA. 0+000 TO STA. 0+080	CS-09
ТО	то
CROSS SECTION - A1 INTERCHANGE RAMP-4 STA. 0+300 TO STA. 0+365.448	CS-09
RAMP-5	
CROSS SECTION - A1 INTERCHANGE RAMP-5 STA. 0+365.448 TO STA. 0+420	CS-10
ТО	то
CROSS SECTION - A1 INTERCHANGE RAMP-5 STA. 0+440 TO STA. 0+489.070	CS-10

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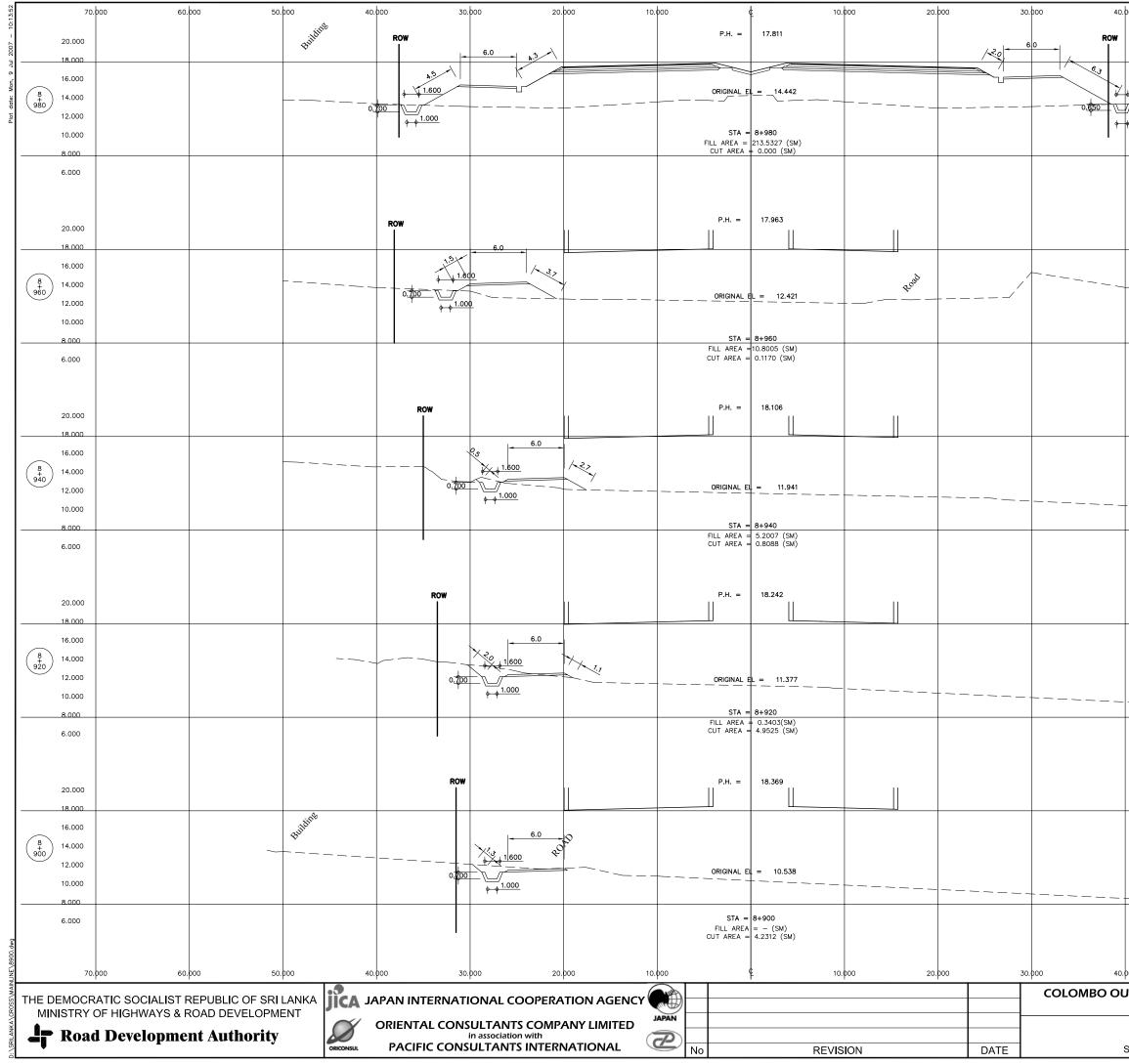
**COLOMBO OUTER CIRCULAR HIGHWAY PROJECT** 



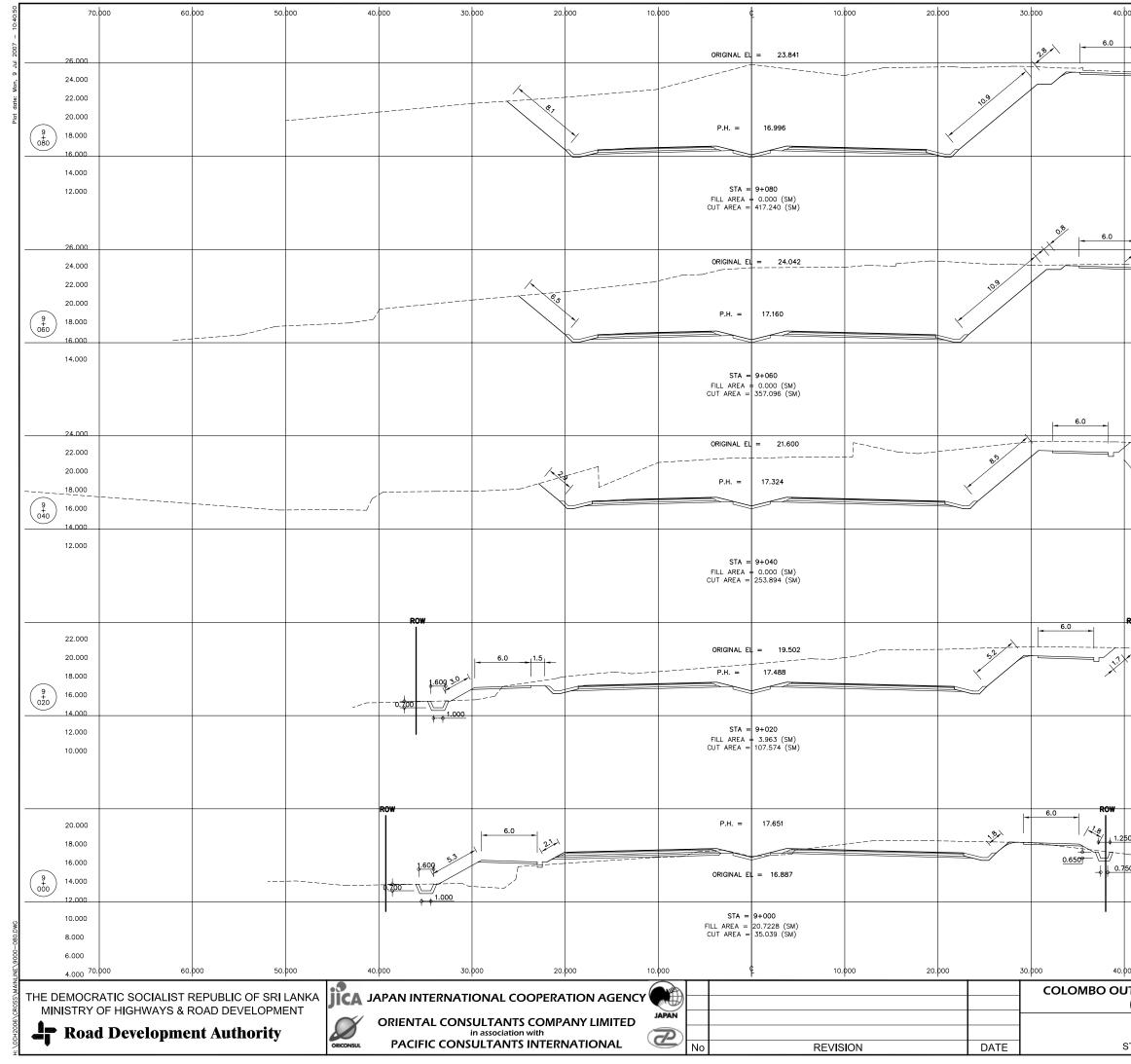
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	OF HIGHWAYS & ROAD DEVELOPME	=NI		IADAN						CROSS SECTIO		APPROVED BY:	
Road	l Development Authority		in association with	P						MAIN LINE		DWG. NO.	CS-007
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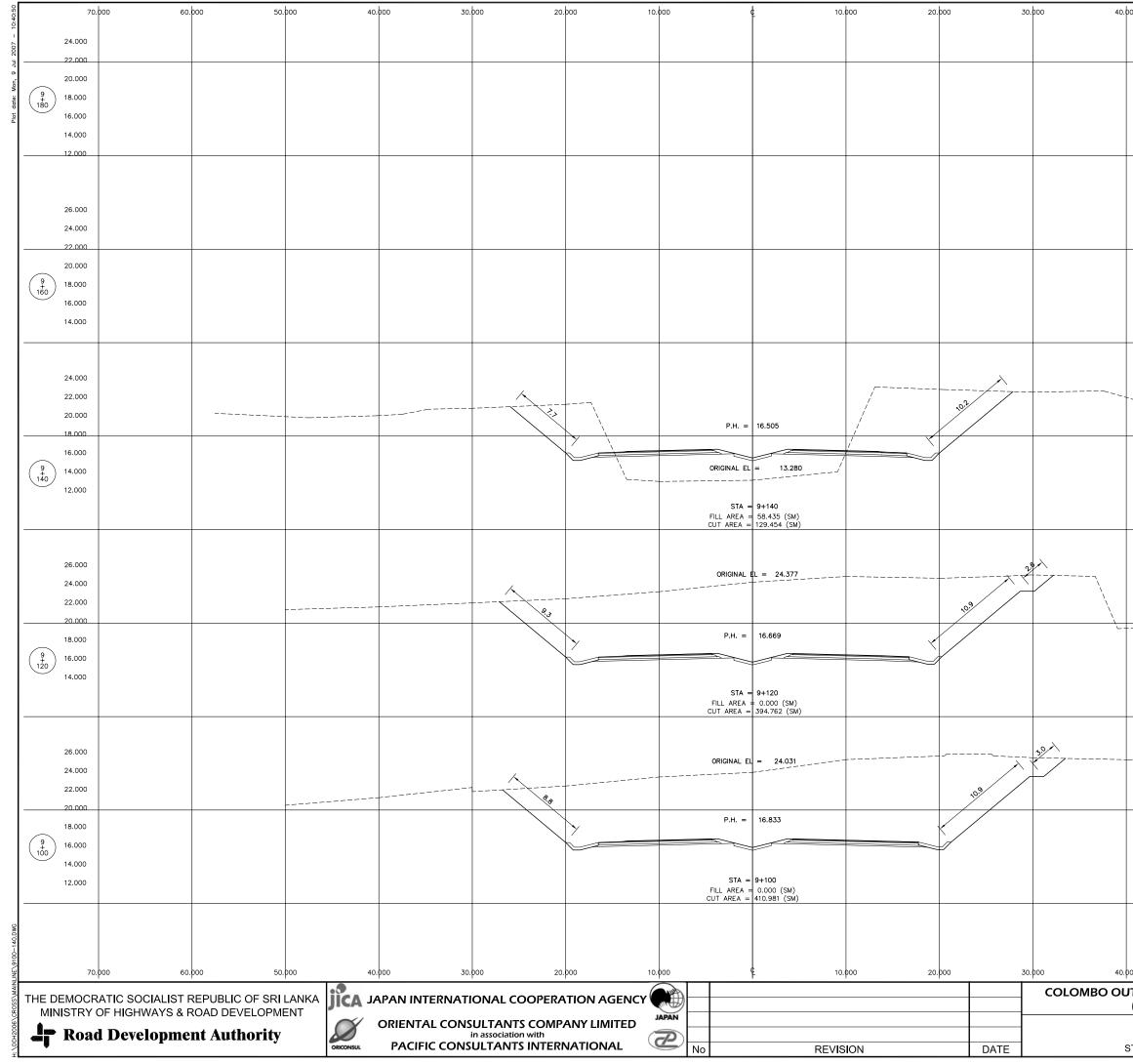
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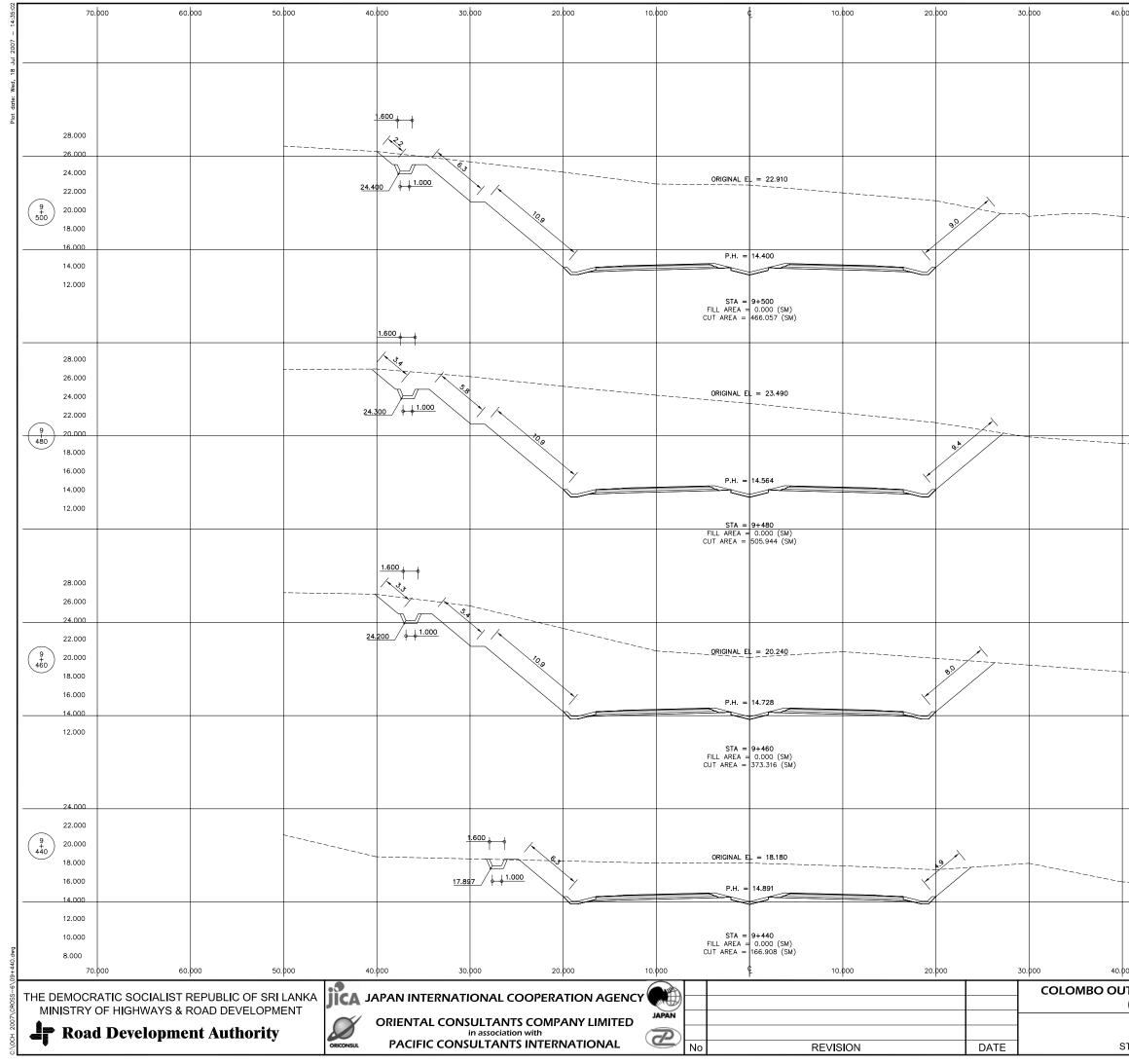
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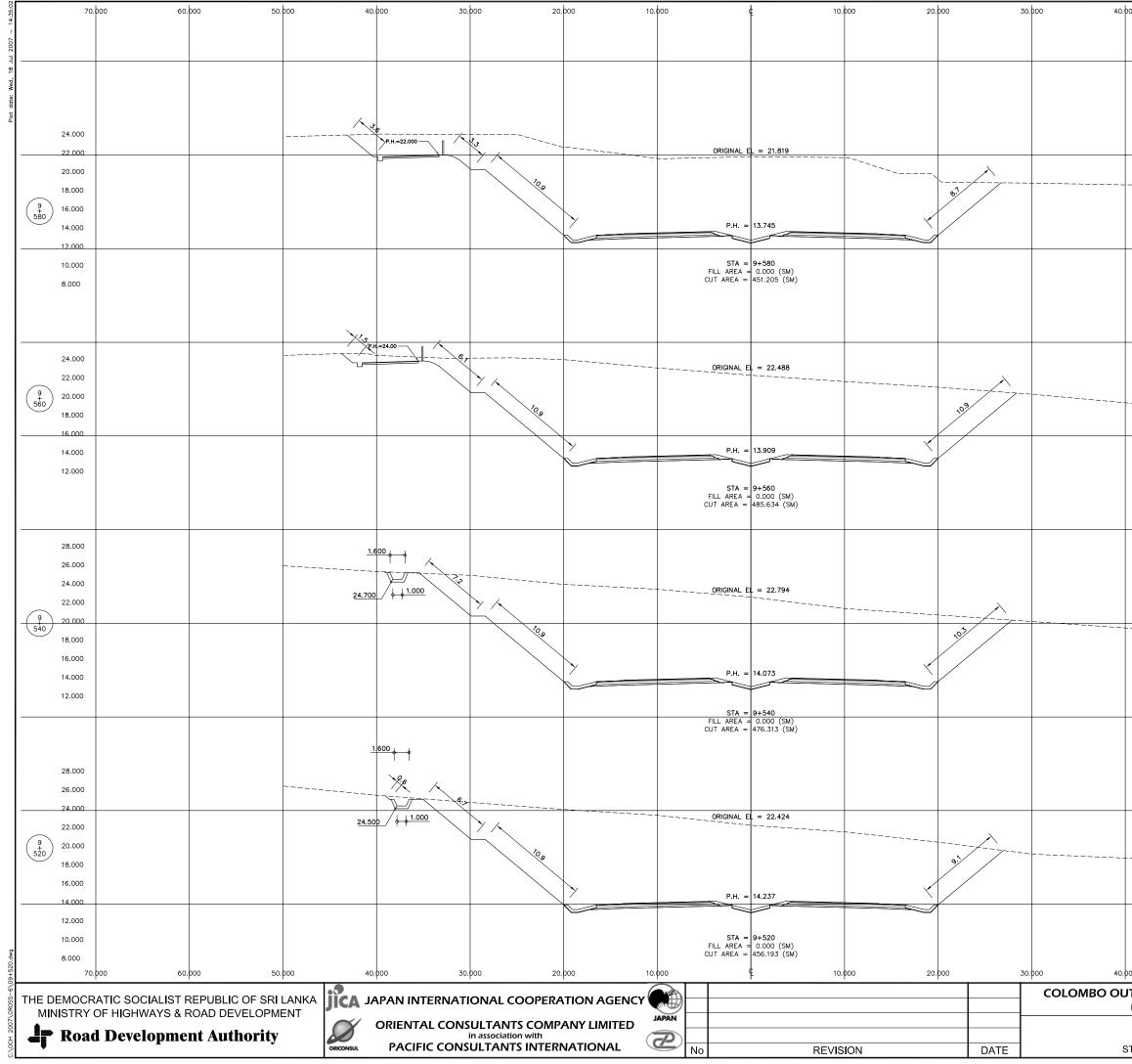
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ALTHE DEMON											HIGHWAY PROFESS	DESIGNED BY:	
	RATIC SOCIALIST REPUBLIC OF SI 7 OF HIGHWAYS & ROAD DEVELOF	RI LANKA PMENT by ORCONSUL	JAPAN INTERNATIONAL C		IADANI					CROSS SECT	ION 1)	CHECKED BY:	

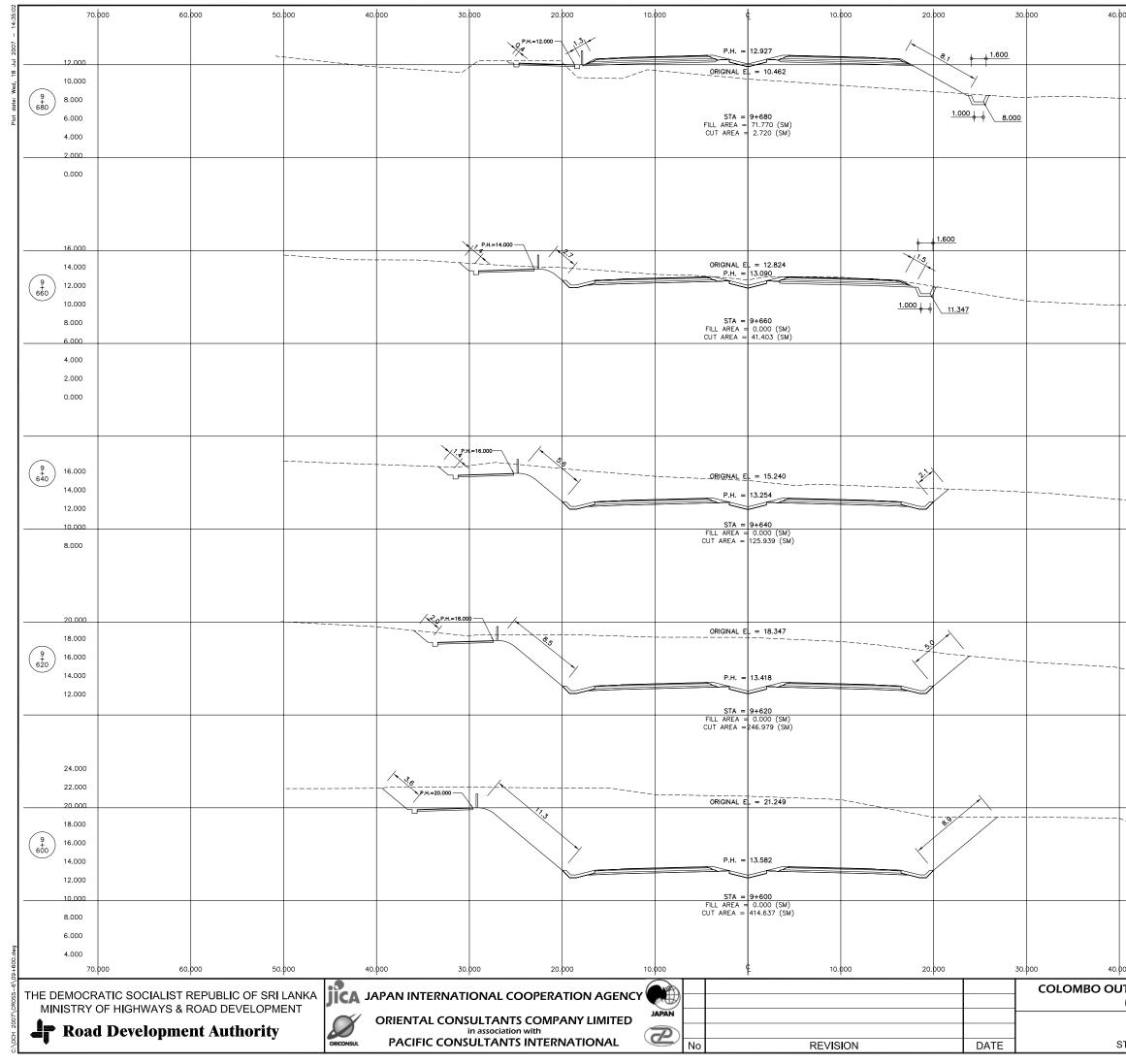
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12.000				STA = 9+420					2.000
8.000			FILL CUT	STA = 9+420 - AREA = 0.000 (SM) AREA = 114.163 (SM)					8.000
16.000		<u>9</u> 3		Р.Н. = 15.219				1 <sup>,</sup>	6.000
14.000			0	RIGINAL EL = 14.601	'				4.000
9 400 10.000							-		12.000 (9 400)
8.000			FILL CU	STA = 9+400 _ AREA = 2.960 (SM) T AREA = 5.435 (SM)					8.000 6.000
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18.000		<u>1.600</u>	,		<mark>∳ ∲ <sup>1.600</sup></mark>			17	8.000
<u> </u>				P.H. = 15.383	-2.4				4.000
9 + 380 12.000		<u>13.639</u>	.000	RIGINAL EL = 13.932	<u>1.000</u>			12	2.000 9 + 380
10.000 8.000			FILL	STA = 9+380 . AREA = 17.121 (SM) T AREA = 0.403 (SM)					8.000
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8.000				STA = 9+360	1.00				8.000
4.000			FILL CU'	STA = 9+360 AREA = 142.206 (SM) T AREA = 0.458 (SM)				2	4.000
18.000				D.U 15 740					8.000
16.000				P.H. = 15.710	11.5				4.000
12.000			c	RIGINAL EL = 10.32		↓ <u>1.600</u>	-		2.000
9 + 340 8.000		<u>11.600</u> / + + 1.000 +		STA - 01740		<u>10</u> <u>9,115</u>		ε	8.000 (9 + 340
4.000			FILL CU	STA         =         9+340           AREA         =         199.049 (SM)           TAREA         =         0.000 (SM)					4.000
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	RATIC SOCIALIST REPUBLIC OF SRI LANKA OF HIGHWAYS & ROAD DEVELOPMENT	ORIENTAL CONSULTANTS COMPANY	IADAN			(NORTHERN SECT CROSS SECT	TON 1)	CHECKED BY: APPROVED BY:	
	d Development Authority	ORIENTAL CONSULTANTS COMPANY in association with PACIFIC CONSULTANTS INTERNATI		REVISIO	N DA	MAIN LINE		DWG. NO.	CS-013



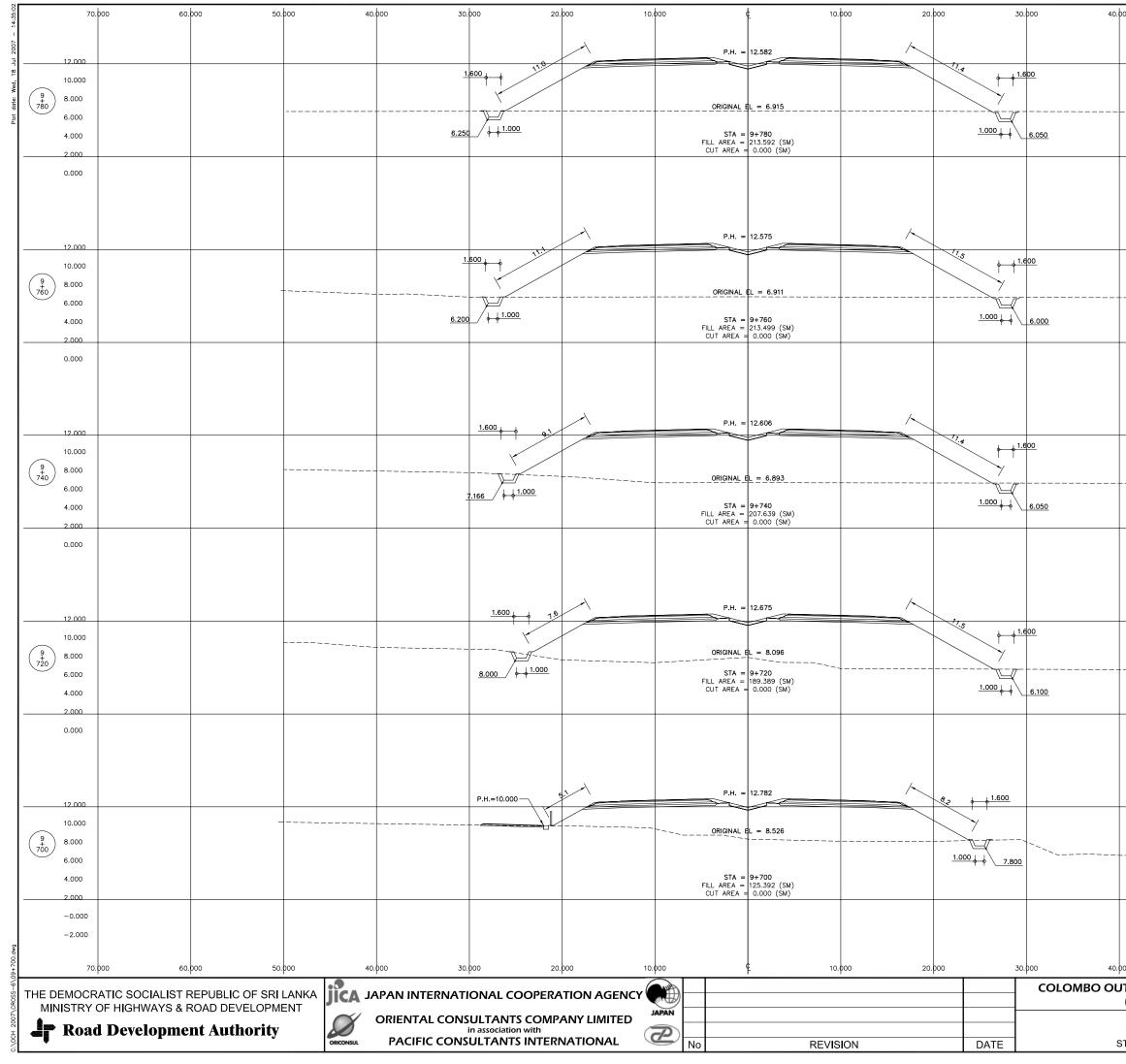
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MAIN LINE TA 9+440 000 TO 9+	500.000		DWG. NO	).	C	S-014



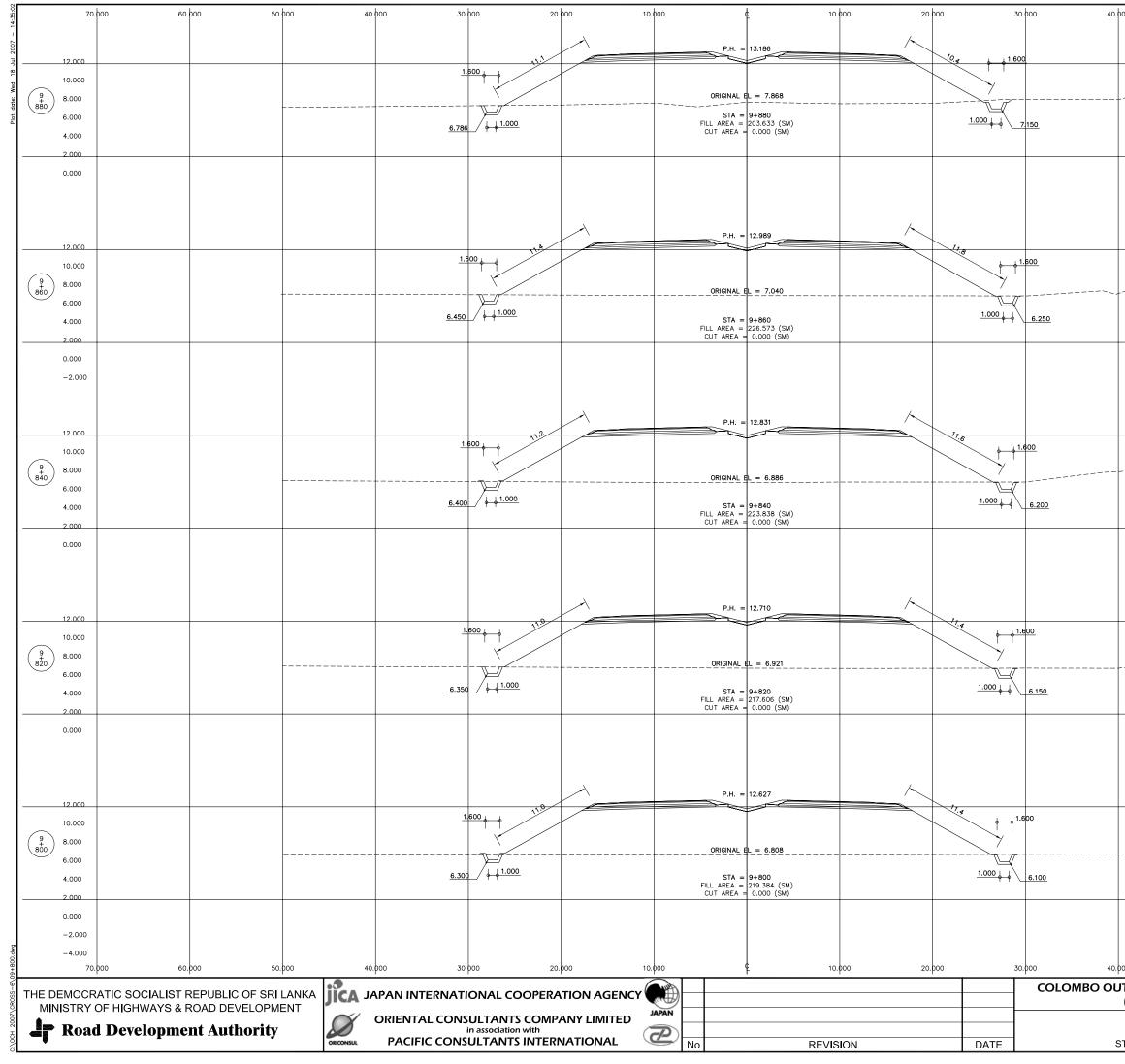
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MAIN LINE	580.000		DWG. NO.	CS-015



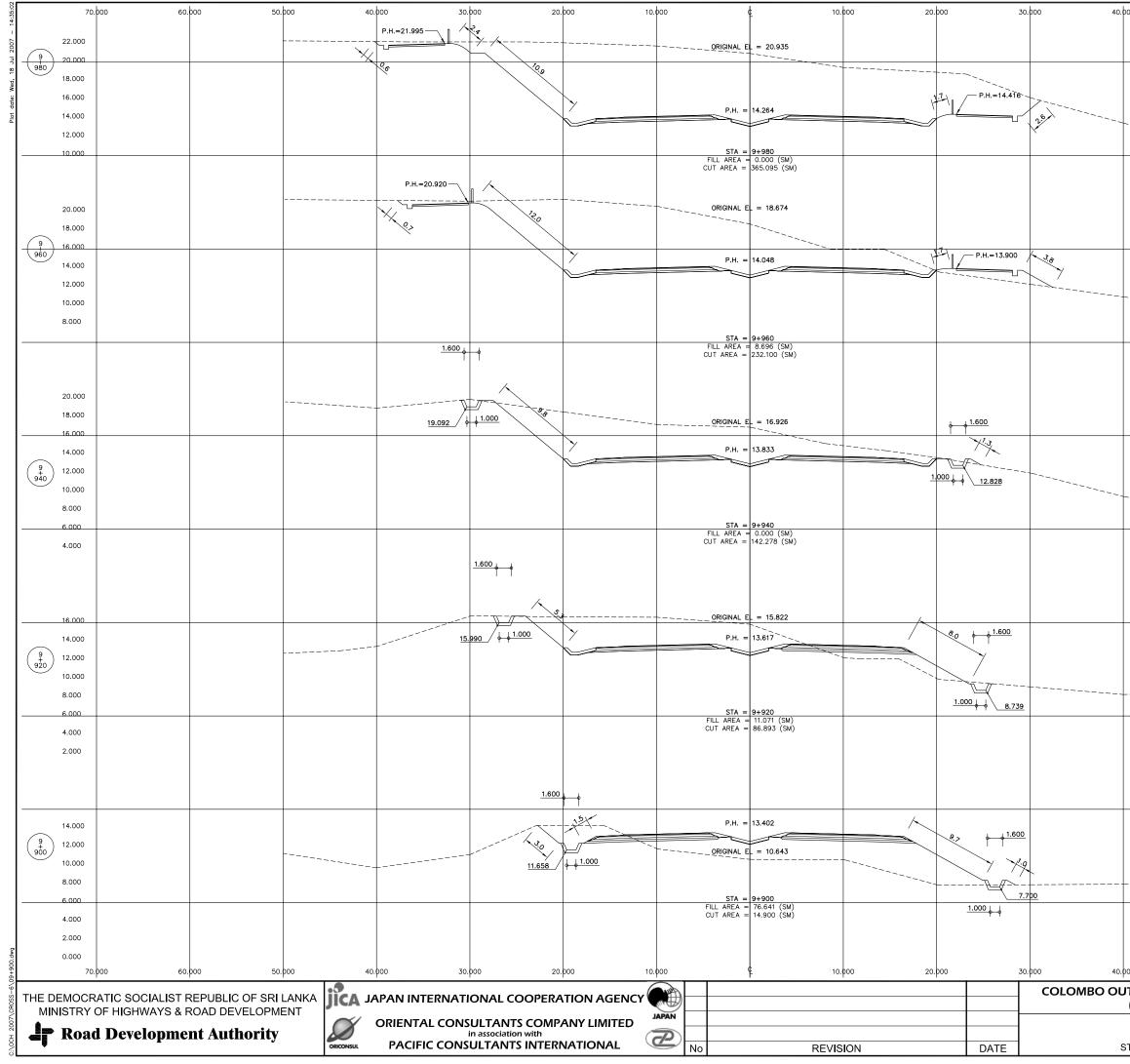
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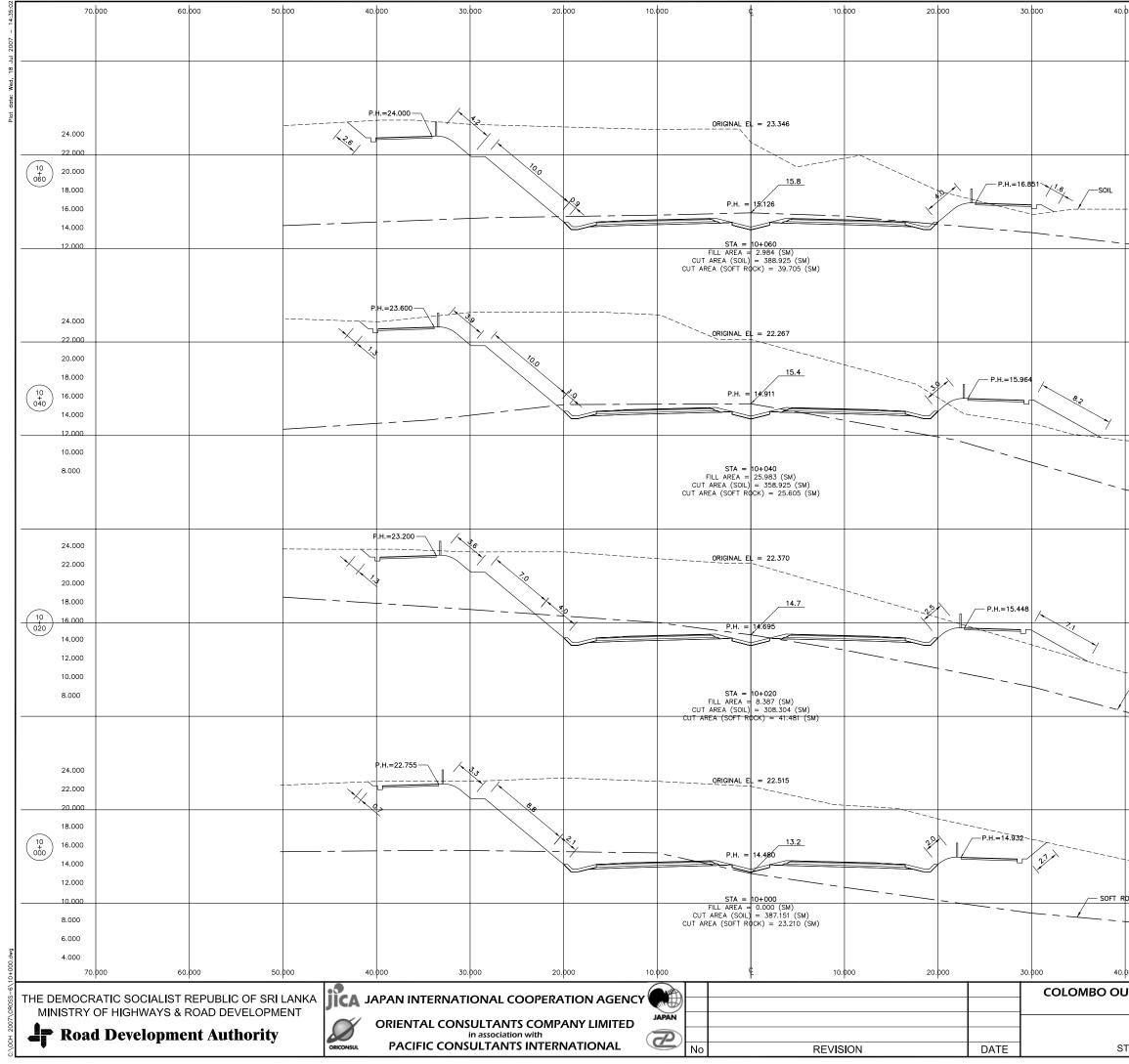
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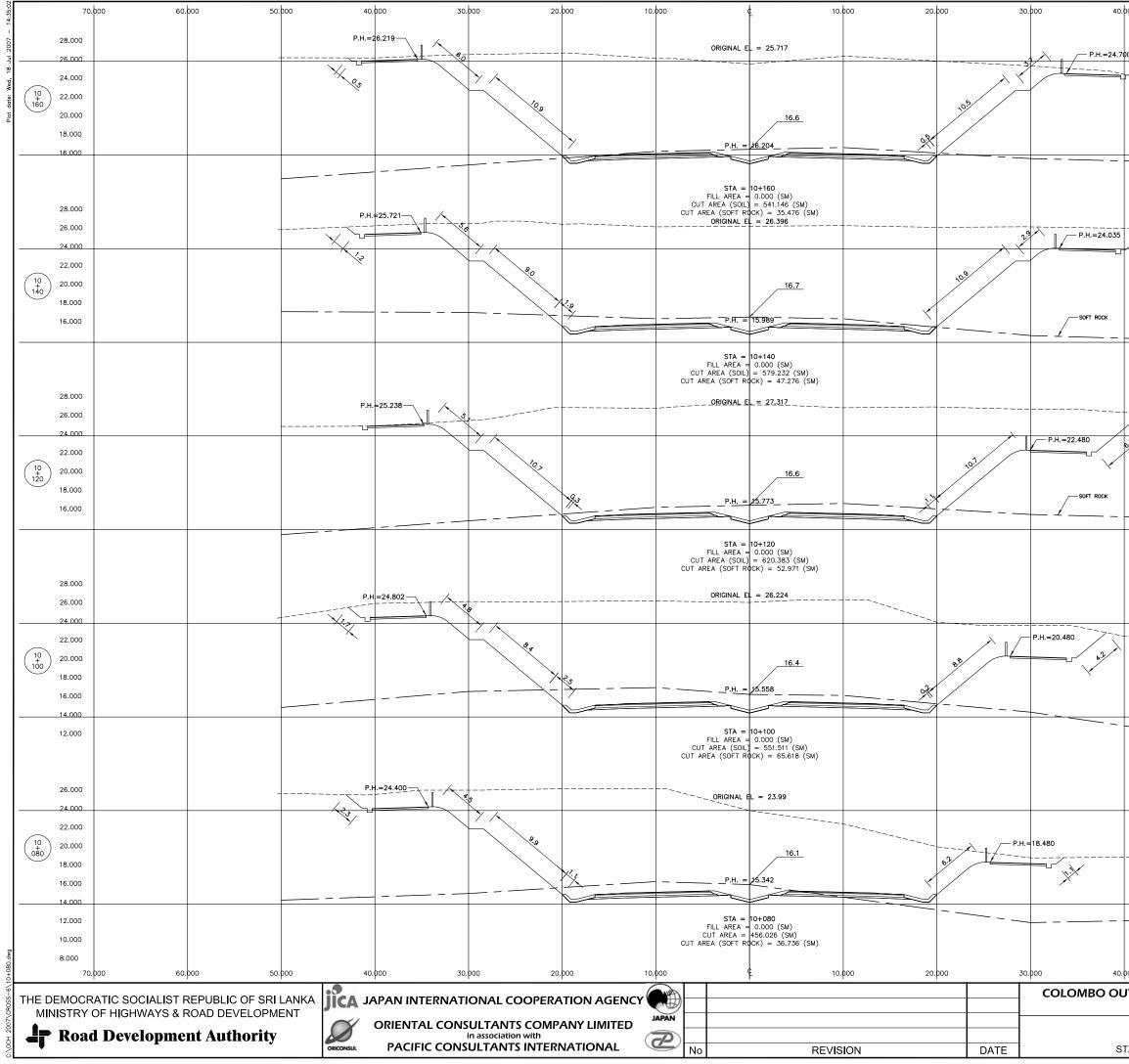
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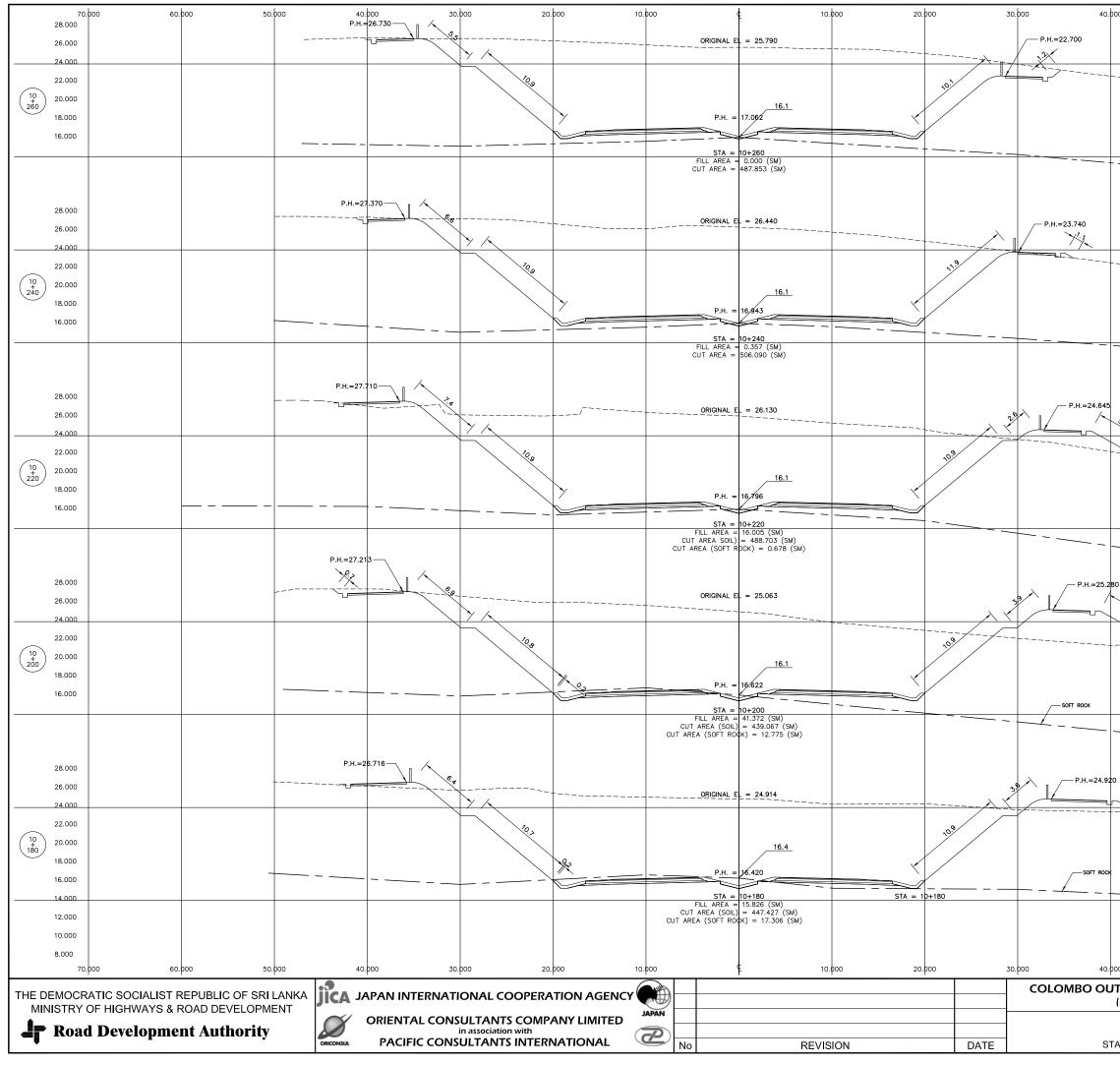
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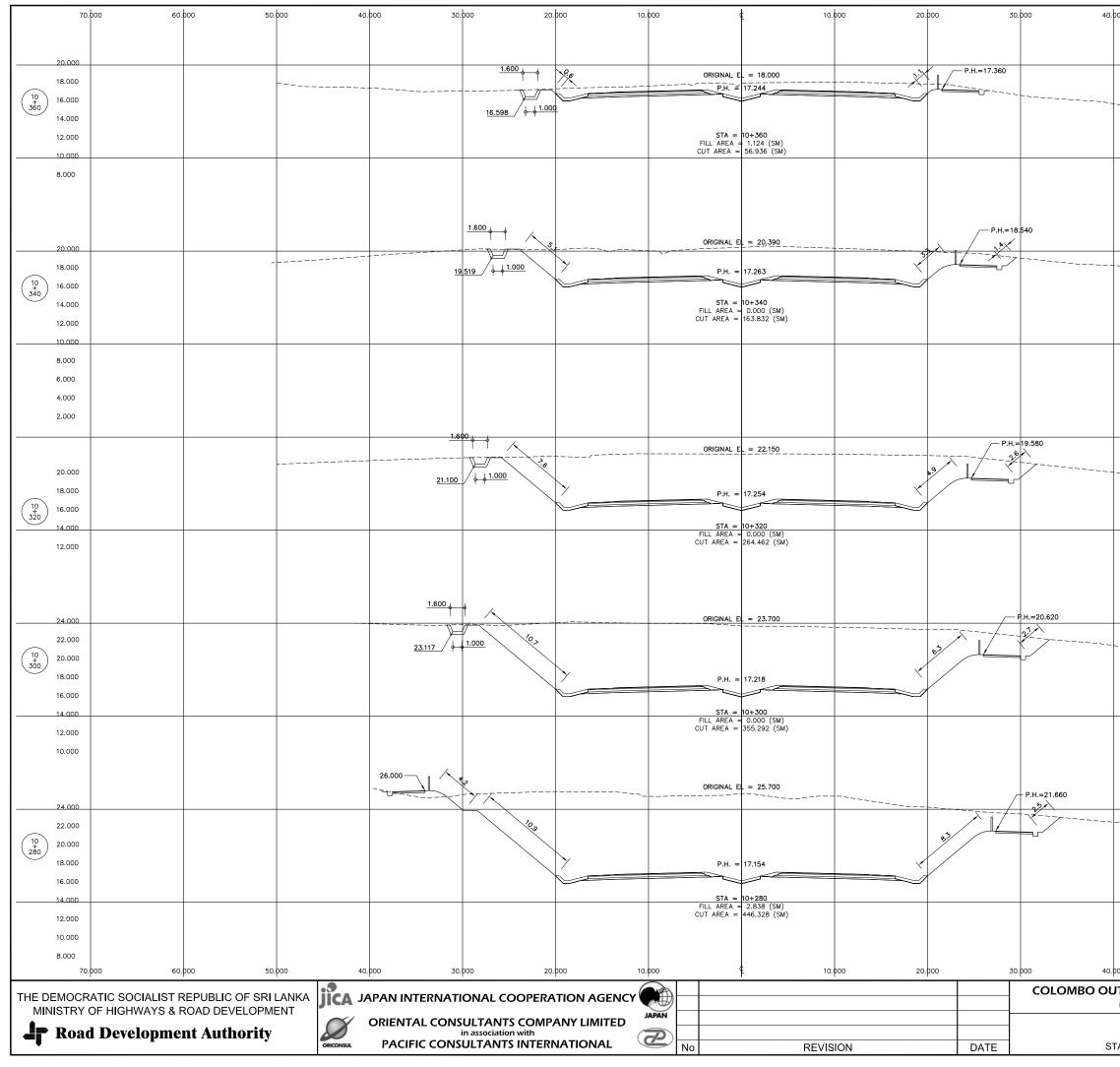
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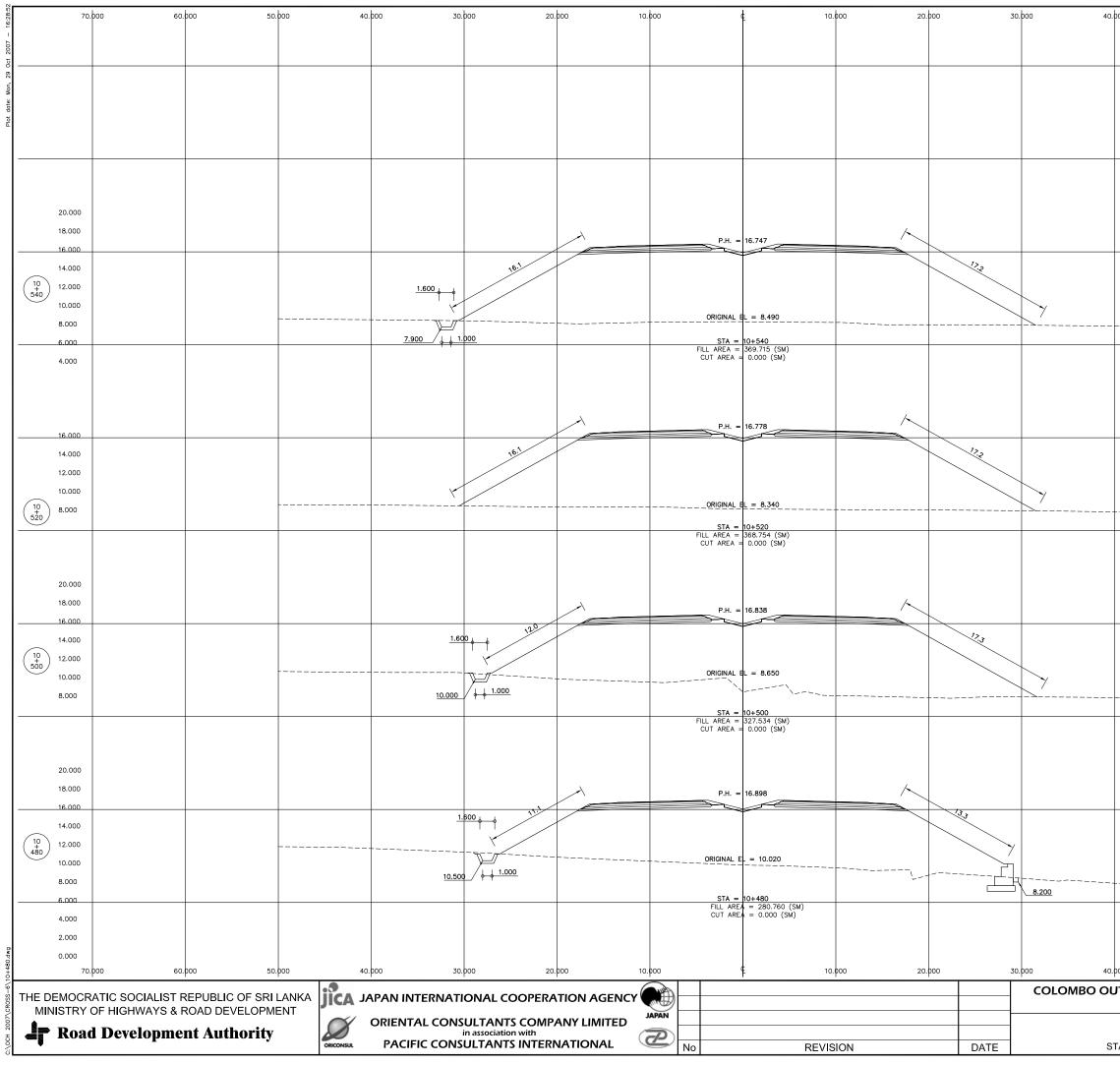


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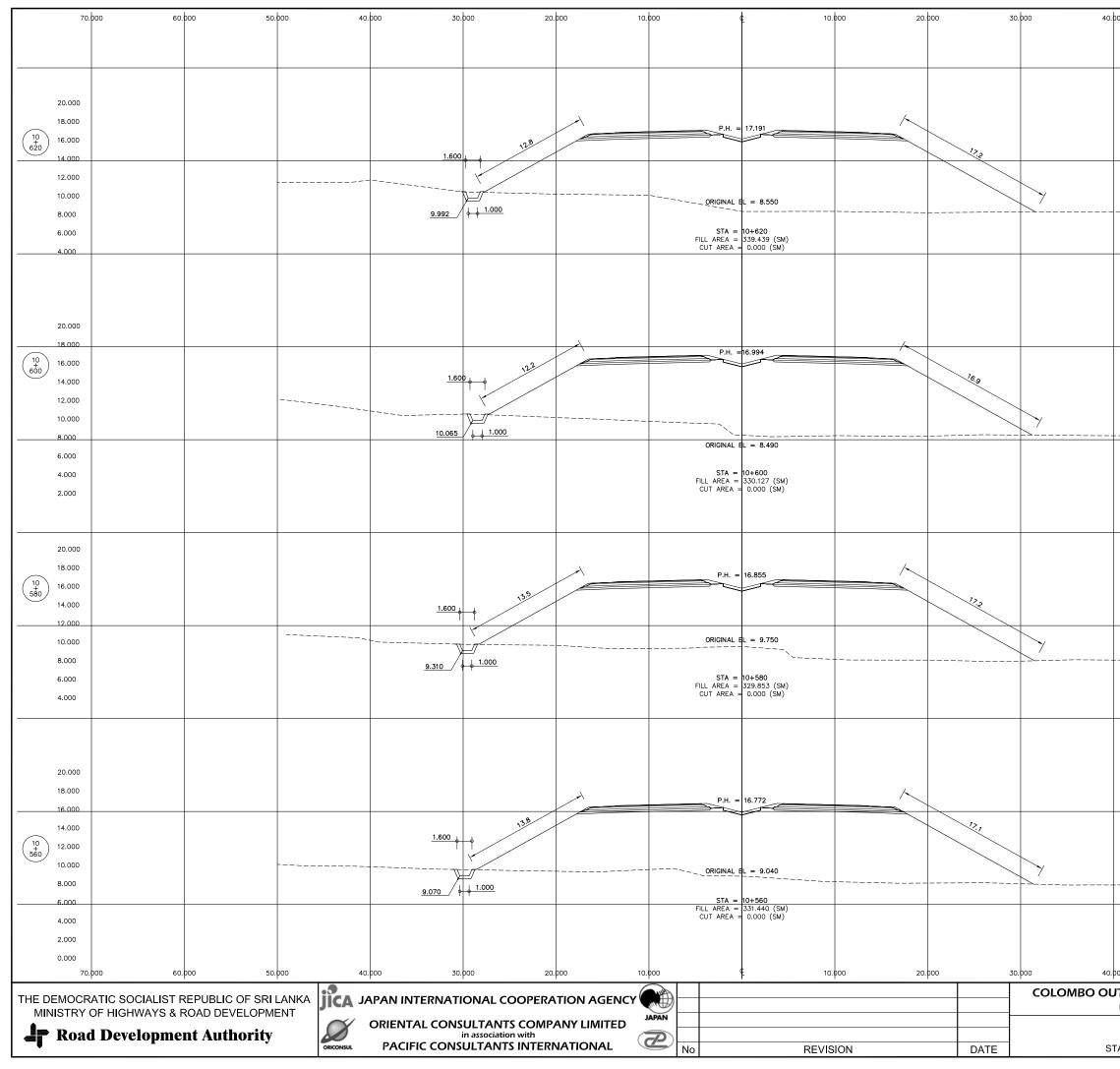


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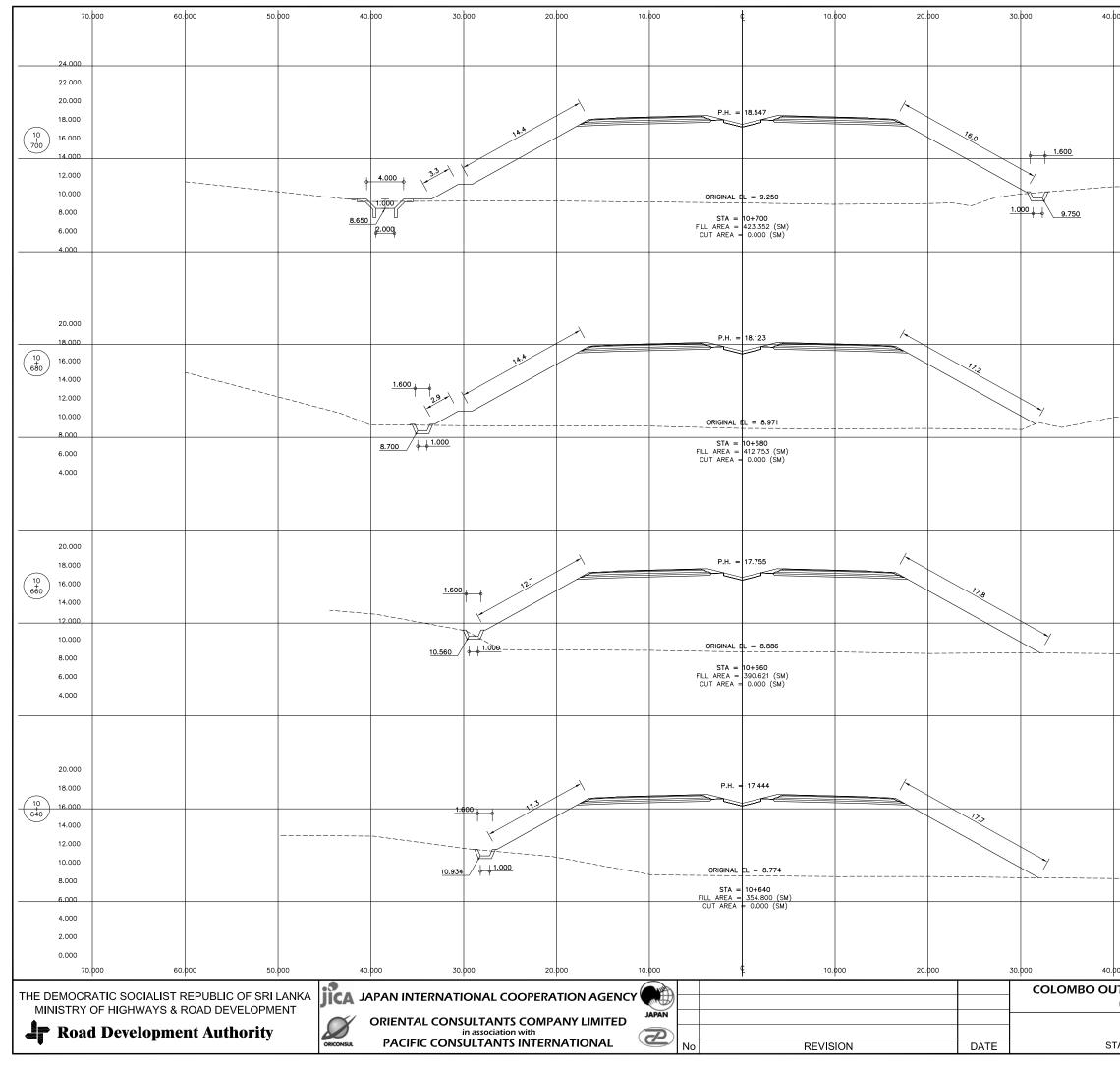
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ti 10 + 460 12.000					<u>13.817</u> / <del>• • · ·</del>					<u>ک</u> ا					460
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6.000							STA = 1(	0+460		\	9.500				6.000
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20.000					(in the second s										20.000
18.000						$\searrow$									18.000
10 16 000							P.H. = 1	7.018		7.3					16.000
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8.000							STA = 10 FILL AREA = 4 CUT AREA =	0+440 19.247 (SM)		10.700	2				8.000
							CUT AREA =	9.720 (SM)							
20.000					\\	× – –									20.000
18.000					+		P.H. = 1	7.078	4.3						18.000
$\begin{pmatrix} 10 \\ + \\ 420 \end{pmatrix} 16.000$							ORIGINAL E	= 16 190		P.H.=12.7					16.000 $\begin{pmatrix} 10\\ +\\ 420 \end{pmatrix}$
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12.000															12.000
10.000							STA = 10 FILL AREA = 2 CUT AREA = 1	0+420 24.036 (SM)							10.000
8.000							CUI AREA = 1	17.304 (SM)							8.000
20.000															20.000
18.000									K.						18.000
$\square$							P.H. = 1	7.138		P.H.=14.3					16.000 $\begin{pmatrix} 10\\ +\\ 400 \end{pmatrix}$
10 400 14.000							ORIGINAL E	= 14.980		n —	×				14.000
12.000										>					12.000
10.000							STA = 10 FILL AREA = 6 CUT AREA =	0+400							10.000
8.000							CUT AREA =	1.559 (SM)							8.000
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18.000							P.H. = 1	7.198	12.0	P.H.=15.9					18.000
10 + 380 16.000							ORIGINAL E	= 15.730	· ·		/				16.000 $\begin{pmatrix} 10 \\ + \\ 380 \end{pmatrix}$
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12.000							CT.	390							12.000
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	RATIC SOCIALIST F 7 OF HIGHWAYS & I		VENI I			IADAN						(NORTHERN SECTION 1)		CHECKED BY:	
S 🔺	nd Developme		$\sim$		SULTANTS COMP in association with	ANY LIMITED					-	CROSS SECTION MAIN LINE		APPROVED BY:	
			ORICONSUL	PACIFIC CONS	SULTANTS INTERN		No	REVIS	BION	DATE	s	TA. 10+380.000 TO 10+460.00	0	DWG. NO.	CS-024



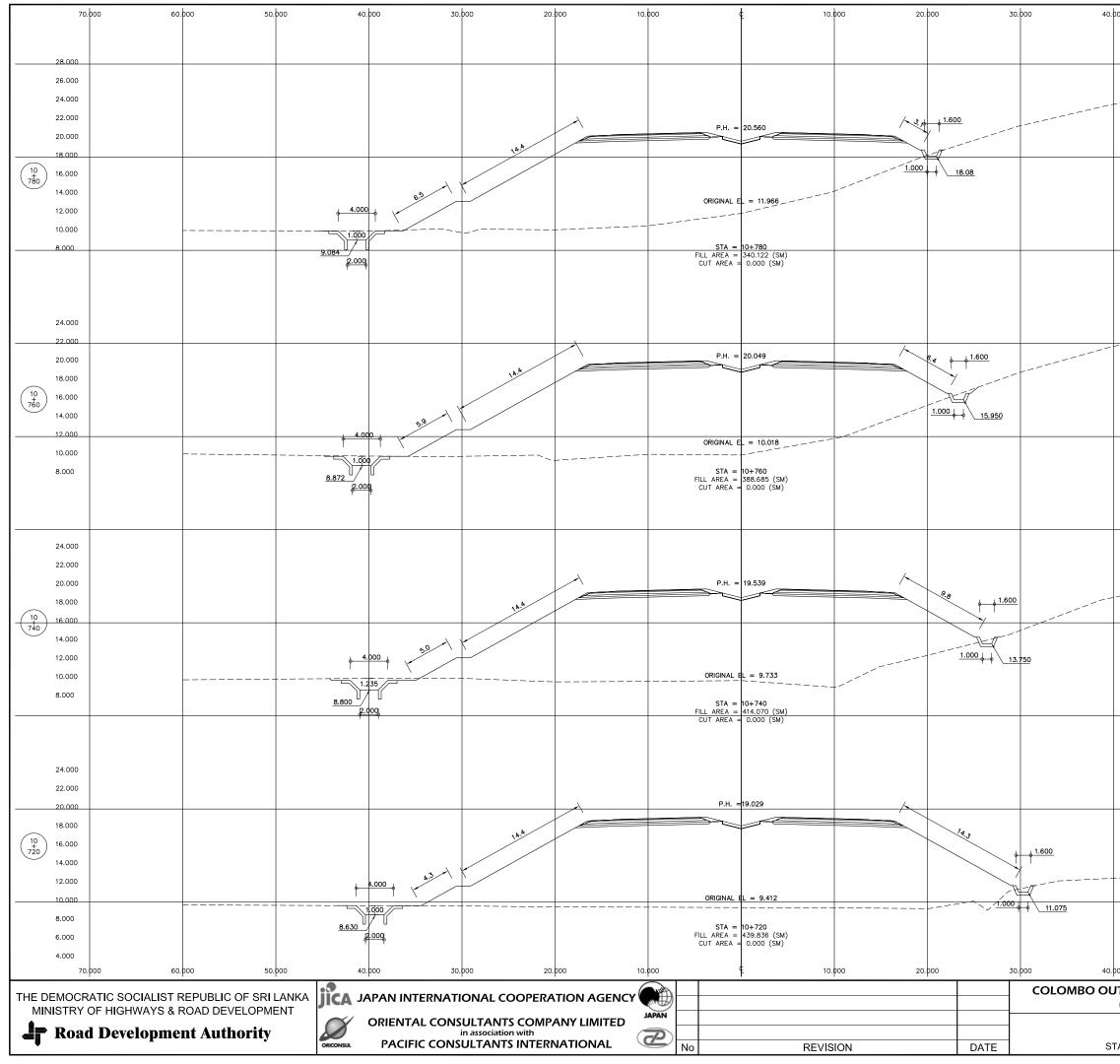
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וכ	ITER CIRCLII AP		ЕСТ	DESIGNED BY:			
OUTER CIRCULAR HIGHWAY PROJECT (NORTHERN SECTION 1)				CHECKED BY:	_		
				APPROVED BY:			
	CROSS SECT	ON		AFFROVED BY:			
	MAIN LINE			DWG. NO	<u>م</u> ا		S-025
S	TA. 10+480.000 TO 10	+540.000		5.NC. NC	· ·		5 020



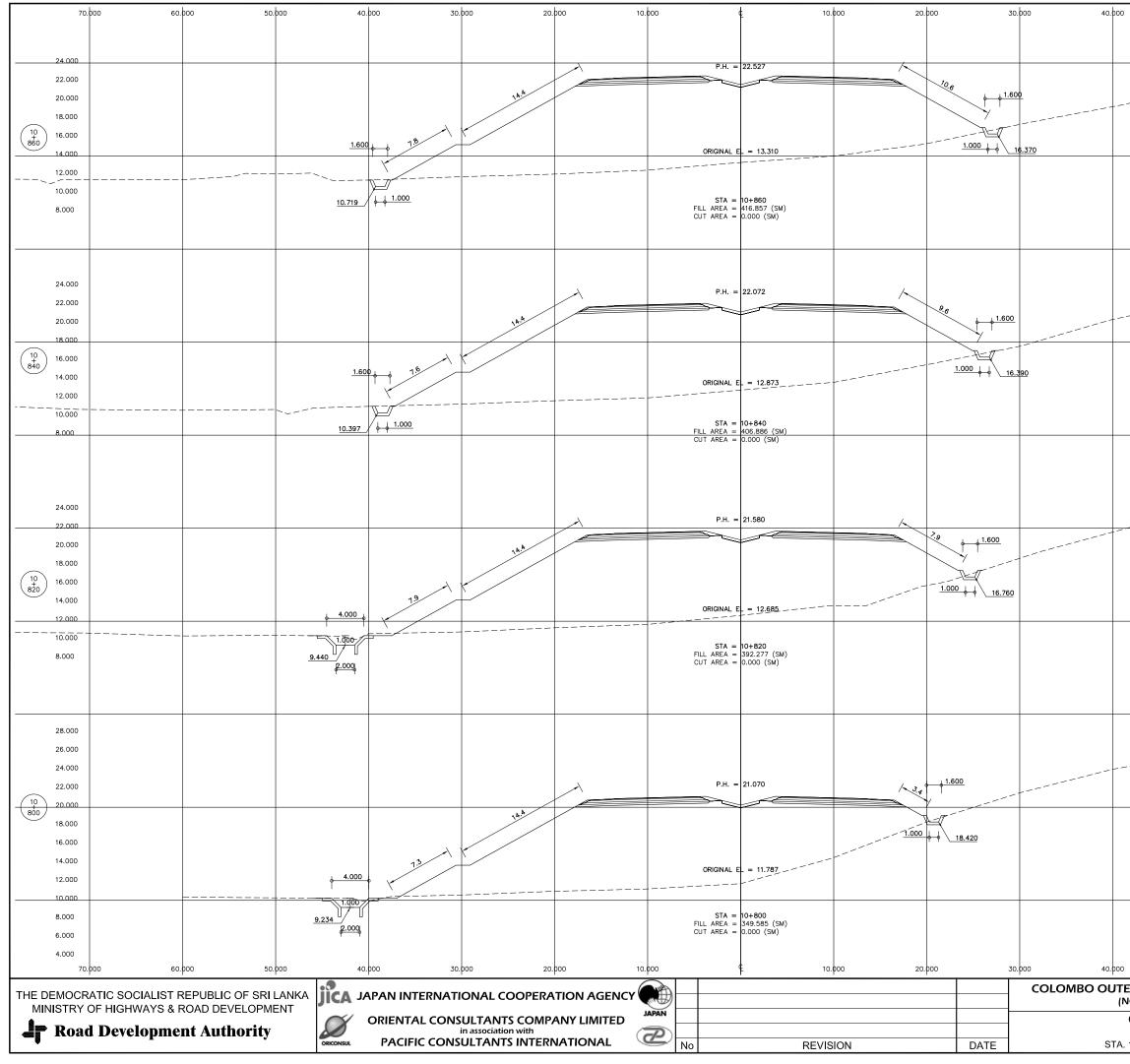
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MAIN LINE A. 10+560.000 TO 10	+620 000		DWG. NC	).	CS-026



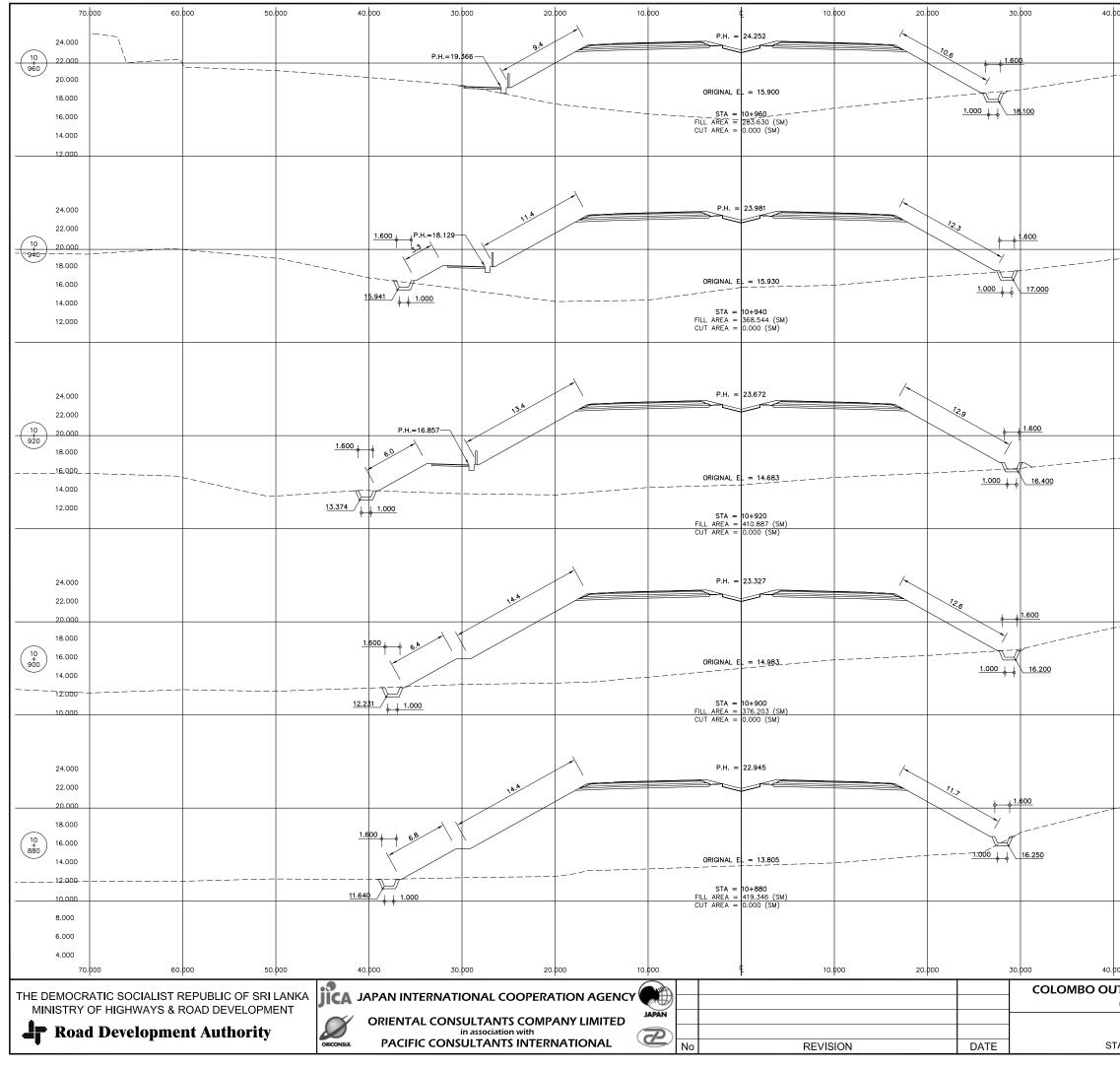
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MAIN LINE A. 10+640.000 TO 10	+700.000		DWG. NO	•   •	CS-027



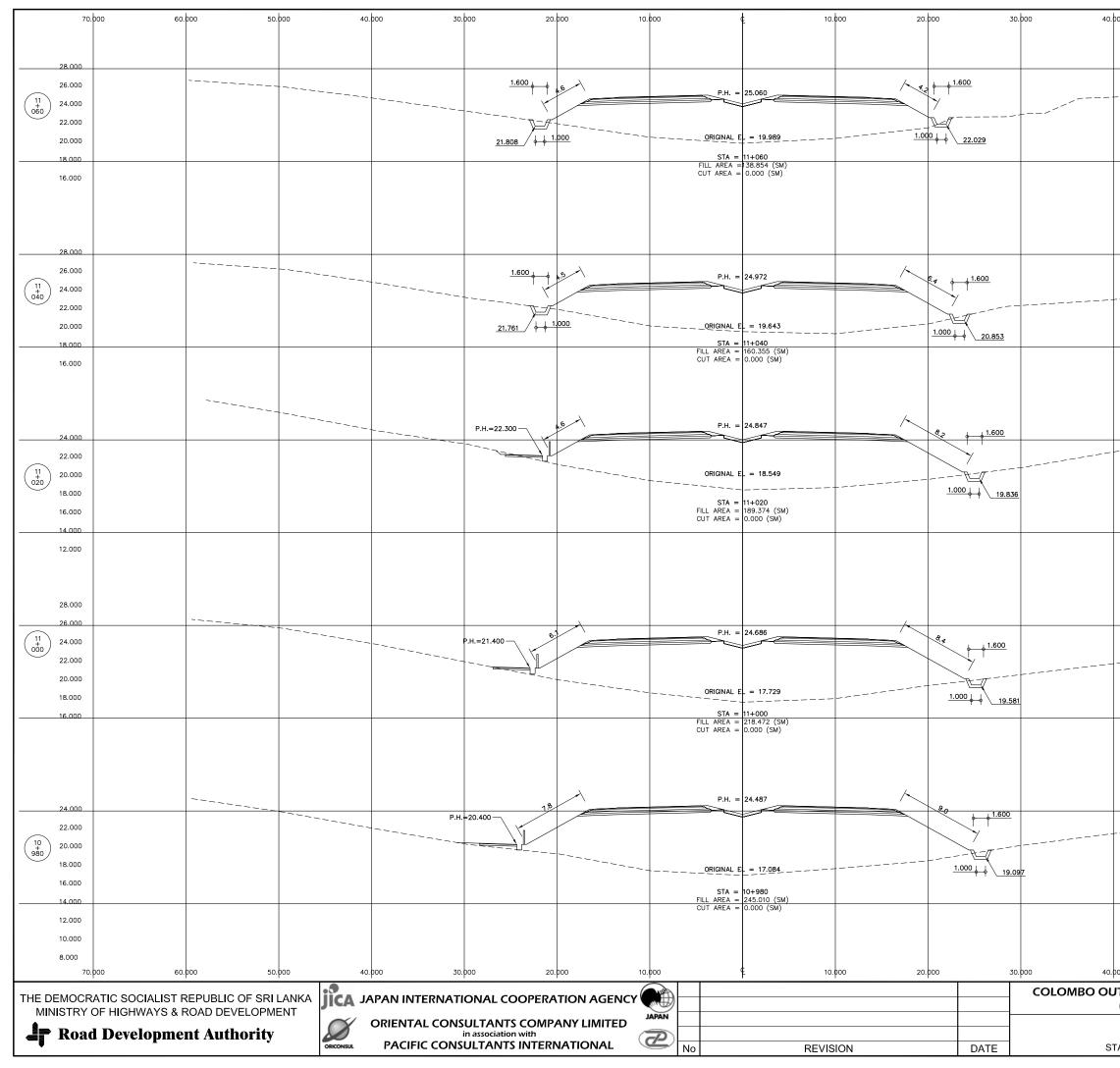
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TER CIRCULAR I	HIGHWAY PROJI	ЕСТ	DESIGNED BY:		
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CROSS SECTION	NC		APPROVED BY:		
MAIN LINE A. 10+720.000 TO 10	+780.000		DWG. NO	.   (	CS-028



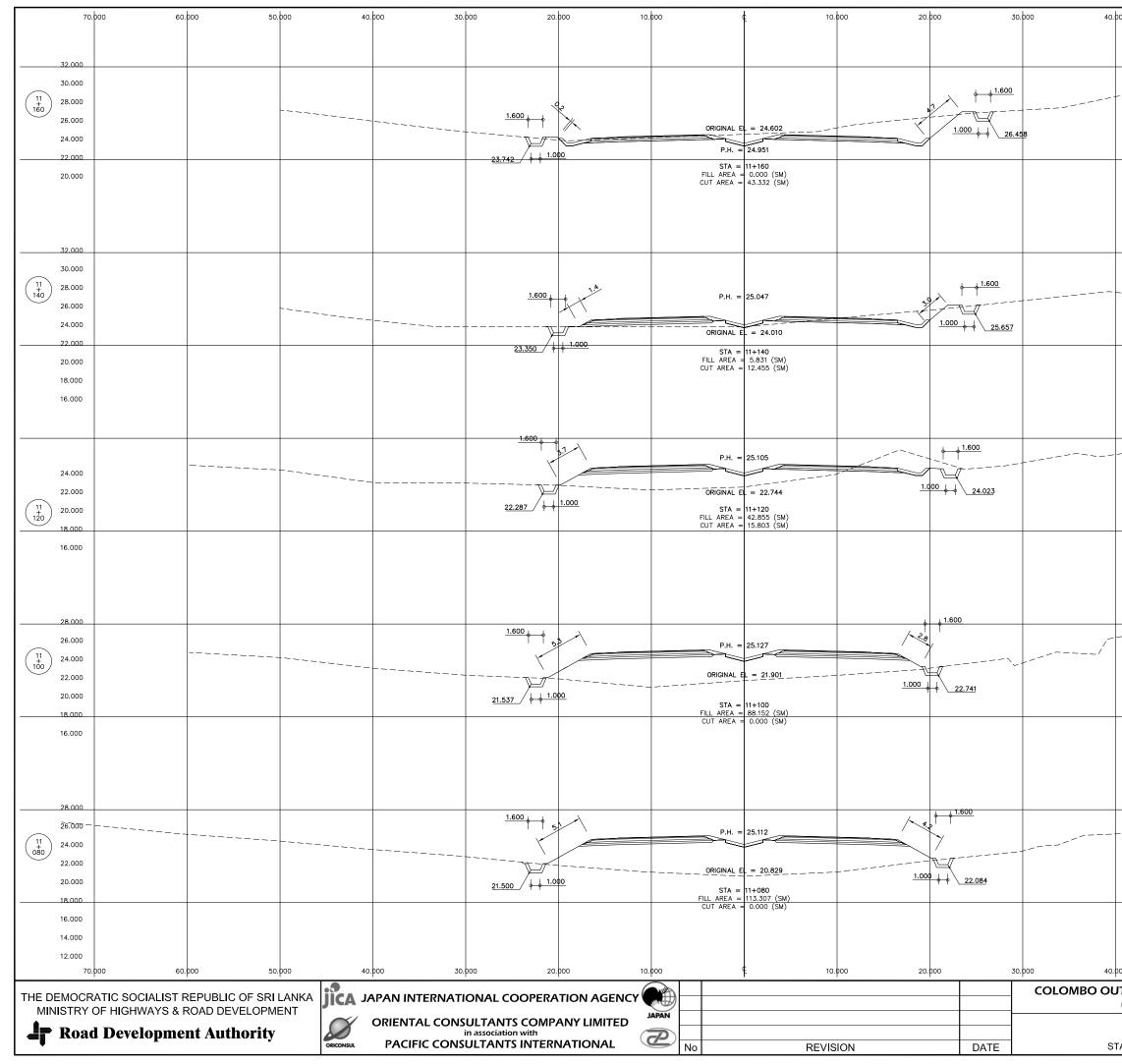
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MAIN LINE					CS-029
A. 10+800.000 TO 10	+860.000		DWG. NO	·   '	53-029



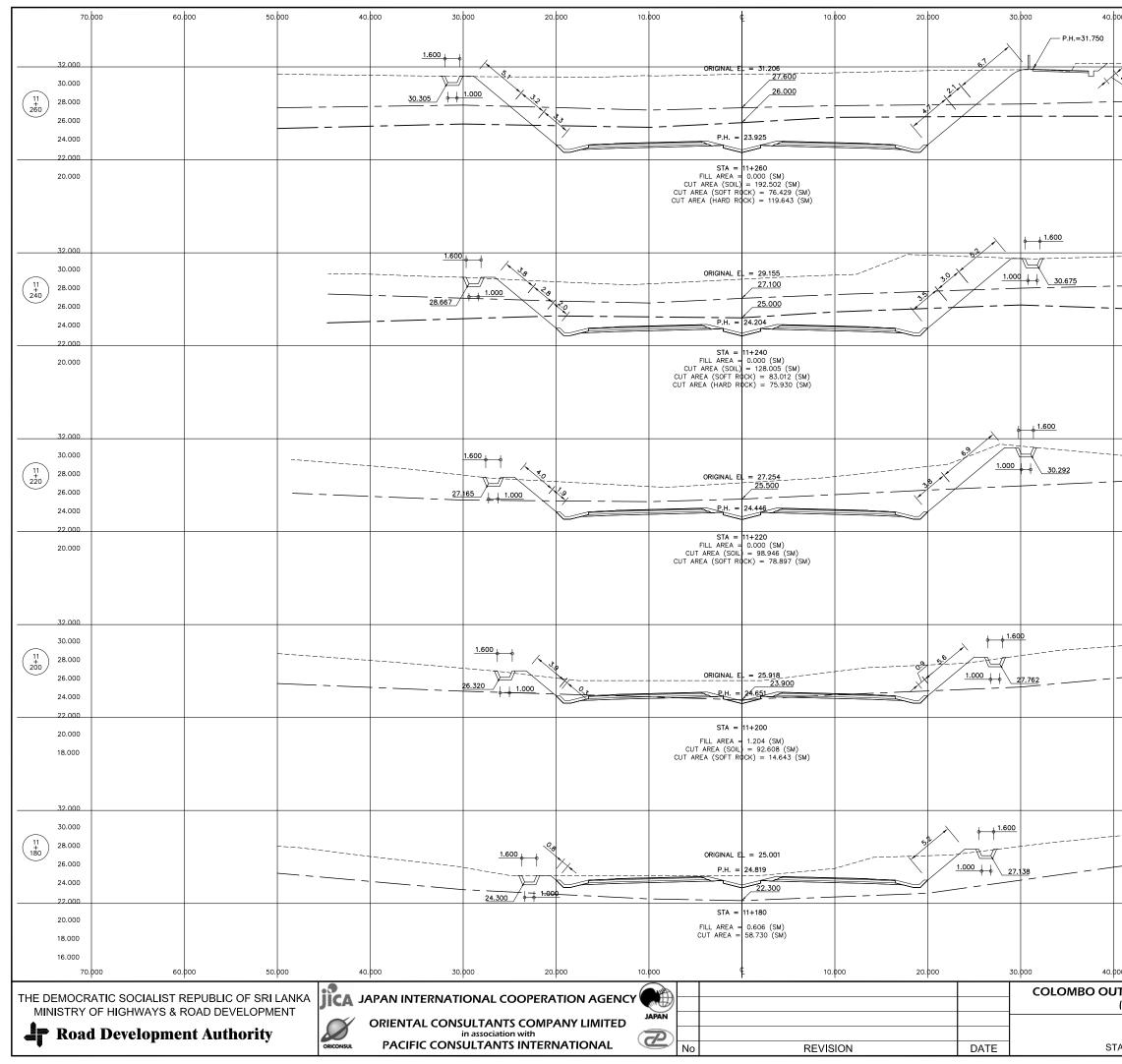
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	HIGHWAY PROJ	ECT	DESIGNED BY:		
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MAIN LINE			DWG. NC		S-030
A. 10+880.000 TO 1	0+960.000			·   ·	



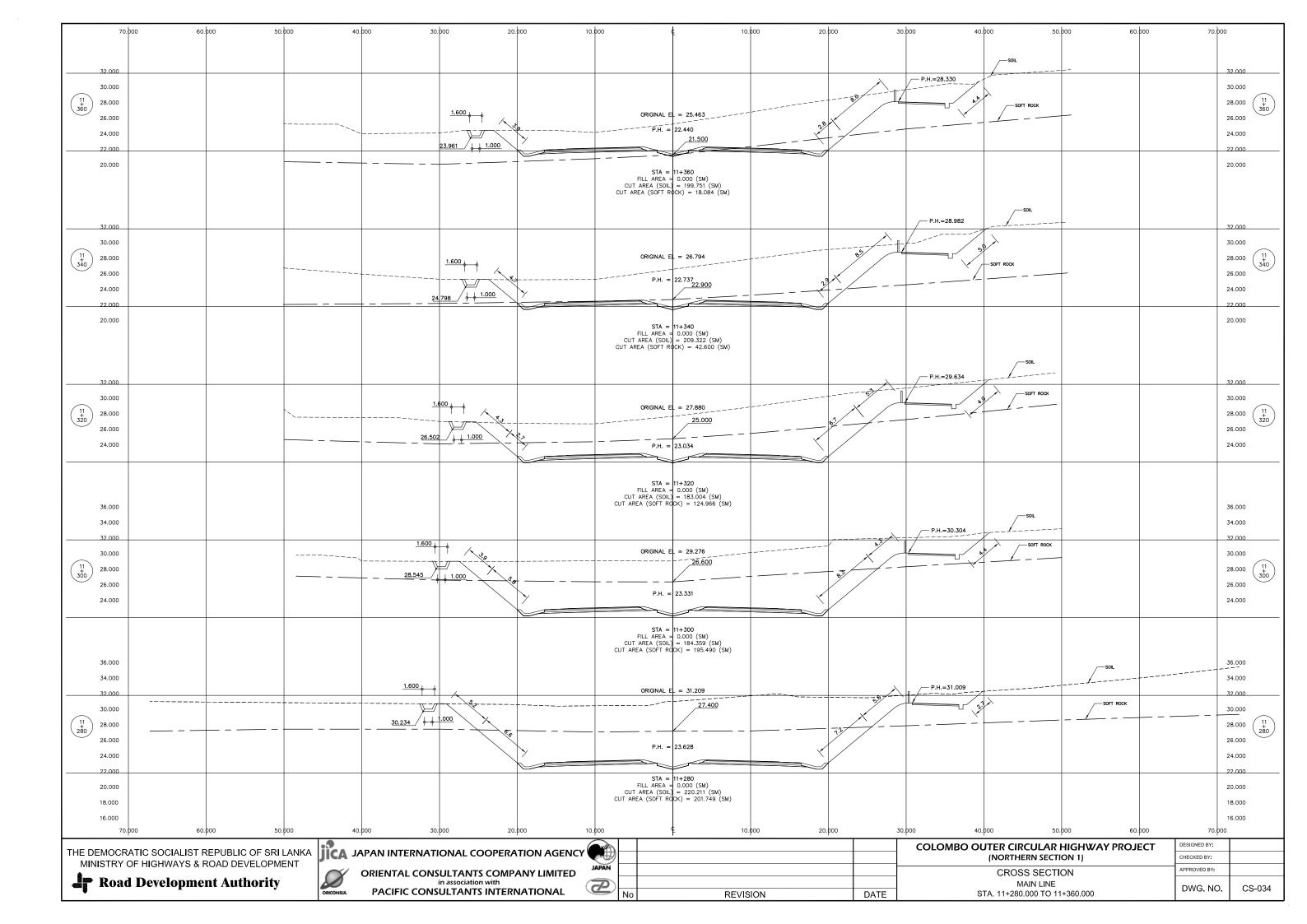
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TER CIRCULAR	HIGHWAY PROJI	ECT	DESIGNED BY:	
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CROSS SECT	ON		APPROVED BY:	
MAIN LINE A. 10+980.000 TO 1	1+060.000		DWG. NO.	CS-031



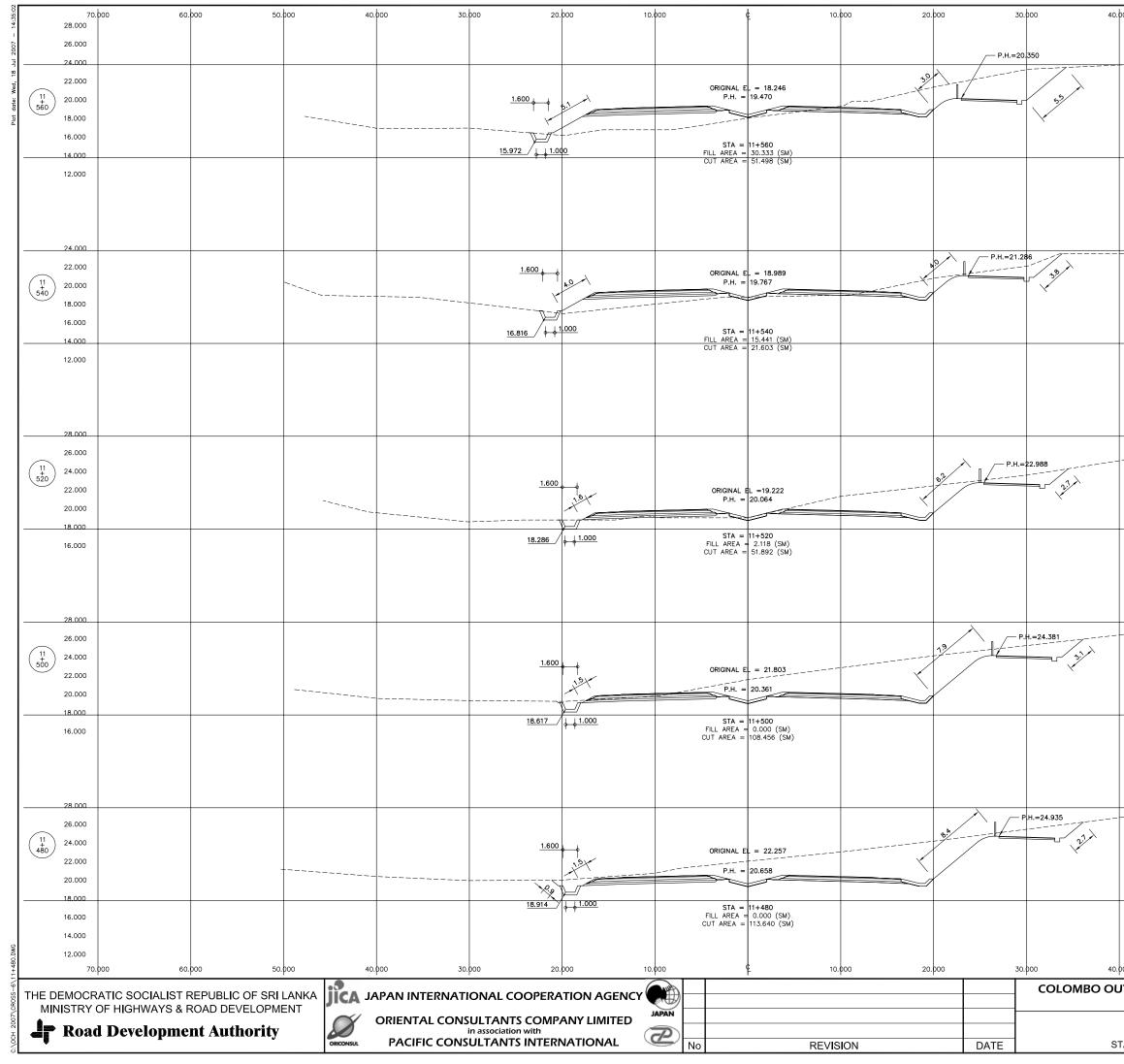
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A. 11+080.000 TO 11	+160.000		DWG. NO.	CS-032



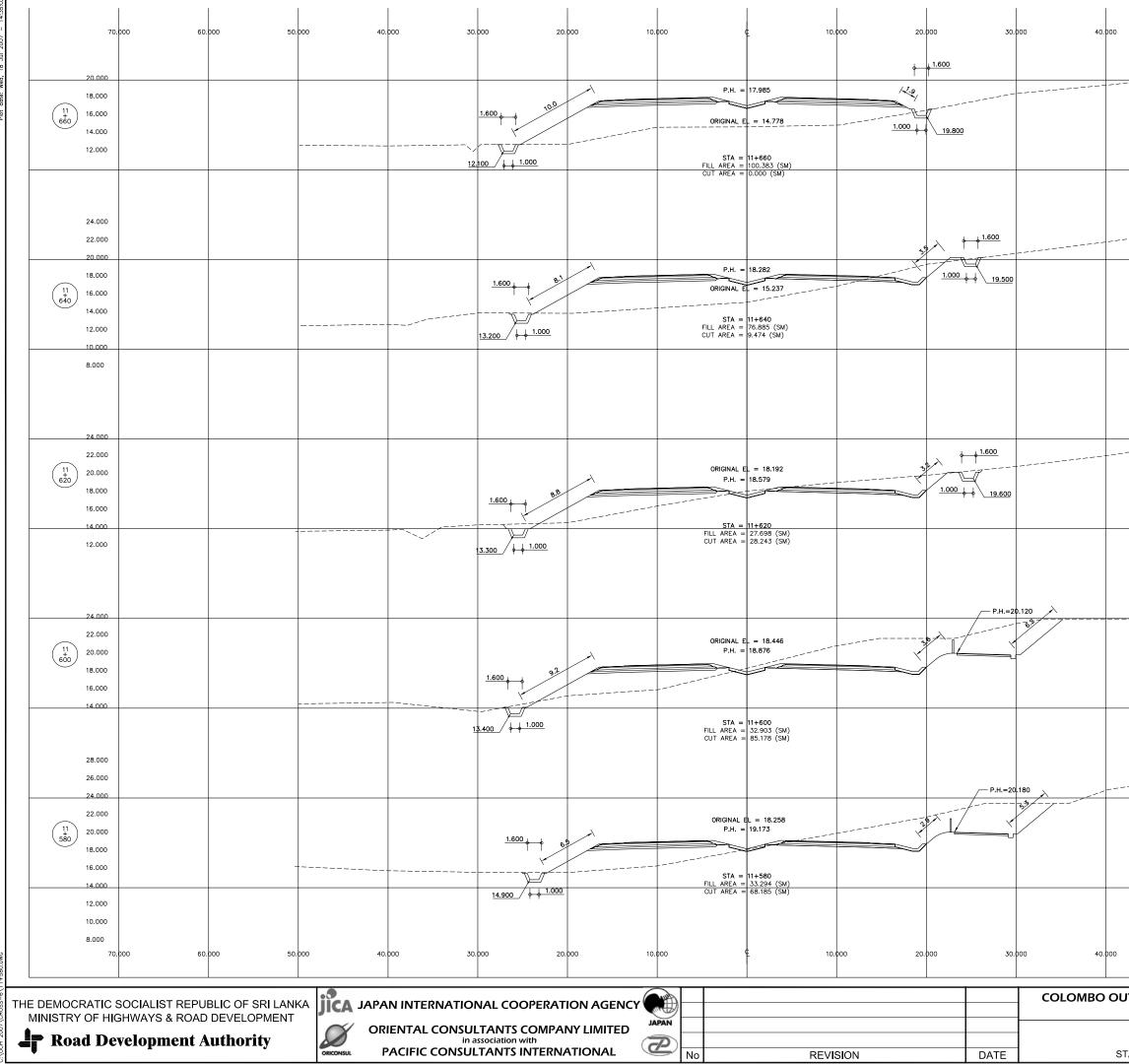
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JOFT NOCK				$28.000  \begin{pmatrix} 11\\ +\\ 180 \end{pmatrix}$
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	HIGHWAY PROJE	СТ	DESIGNED BY:	_
(NORTHERN SECTI	ON 1)		CHECKED BY:	
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MAIN LINE				00.000
A. 11+180.000 TO 11	+260.000		DWG. NO.	CS-033



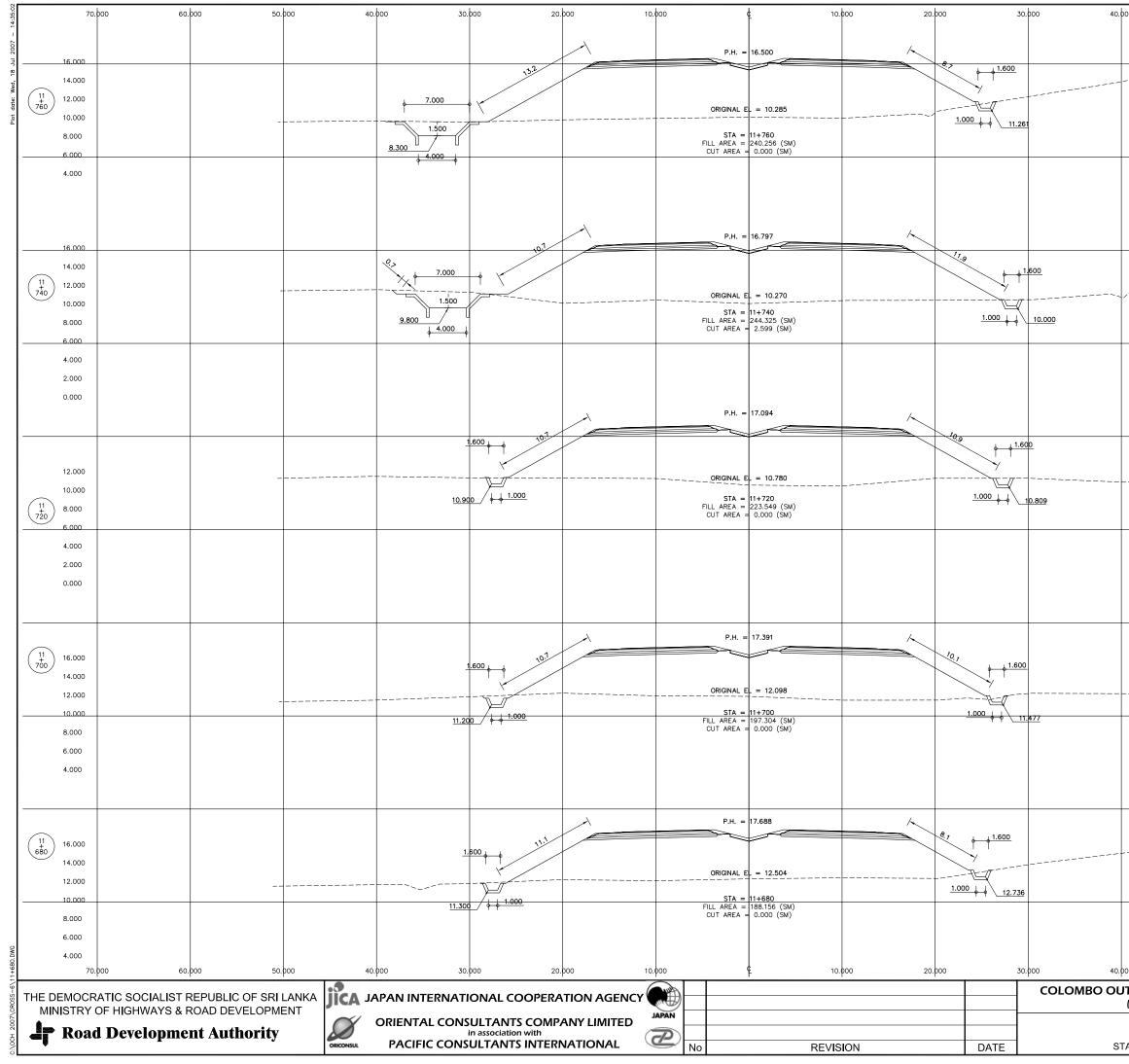
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२ ३ 28.000							- P.H.=25.199				28.000
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iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii		<u>1.600 </u>	ORIGINAL E	. = 22.392							24.000 ( <sup>1</sup> / <sub>460</sub> ) 22.000
20.000			P.H. =	20.955							20.000
18.000		20.052	STA =	11+460							18.000
16.000			STA = FILL AREA = CUT AREA =	3.527 (SM) 99.227 (SM)							16.000
28.000						/	P.H.=25.722				28.000
26.000						<u>+</u>	2.4				26.000
(1) (440) 22.000		<u>1.600</u>	ORIGINAL E								24.000 (1) 22.000
20.000			P.H. =	21.252							20.000
		20.848 / + + 1.000	STA =	11+440							
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32.000											32.000
30.000							D.U. 00 774				30.000
28.000							P.H.=26.374				28.000
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20.000		21.632 + 1.000	STA =	11+420							20.000
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(11 400) 24.000 22.000			Р.Н. =	21.846							22.000
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18.000			STA = FILL AREA = CUT AREA =	0.000 (SM) 162.898 (SM)							18.000
32.000								SOIL			.32.000
30.000						$\mathbf{\lambda}$	P.H.=27.678				30.000
11 380 28.000						-/T	53	∽SOFT ROCK			28.000 (11 + 380
26.000		1.600	ORIGINAL EL	_ = 24.508					-		26.000
24.000			P.H. =	22.143 20.1							24.000
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옵 16.000 약 70.000 60	50.poo 50.poo	40.poo 30.poo 20.poo	10.000 CUT AREA (SOFT R	DCK) = 4.659 (SM) 10.0	00 20.p00	3	30.000 40.0	00 50.0	poo 60.poo	70.000	16.000 0
		JAPAN INTERNATIONAL COOPERATION AGENCY			1			TER CIRCULAR H	HIGHWAY PROJECT	DESIGNED BY:	
	RUAD DEVELOPMENT T	ORIENTAL CONSULTANTS COMPANY LIMITED	JAPAN					(NORTHERN SECTION		CHECKED BY: APPROVED BY:	
Berger Road Developme	ent Authority				ON			MAIN LINE A. 11+380.000 TO 11		DWG. NO.	CS-035
ชี่	ORICO/4SUL		No	REVISI		DATE	51	A. 11-300.000 TO TI	·		<u> </u>



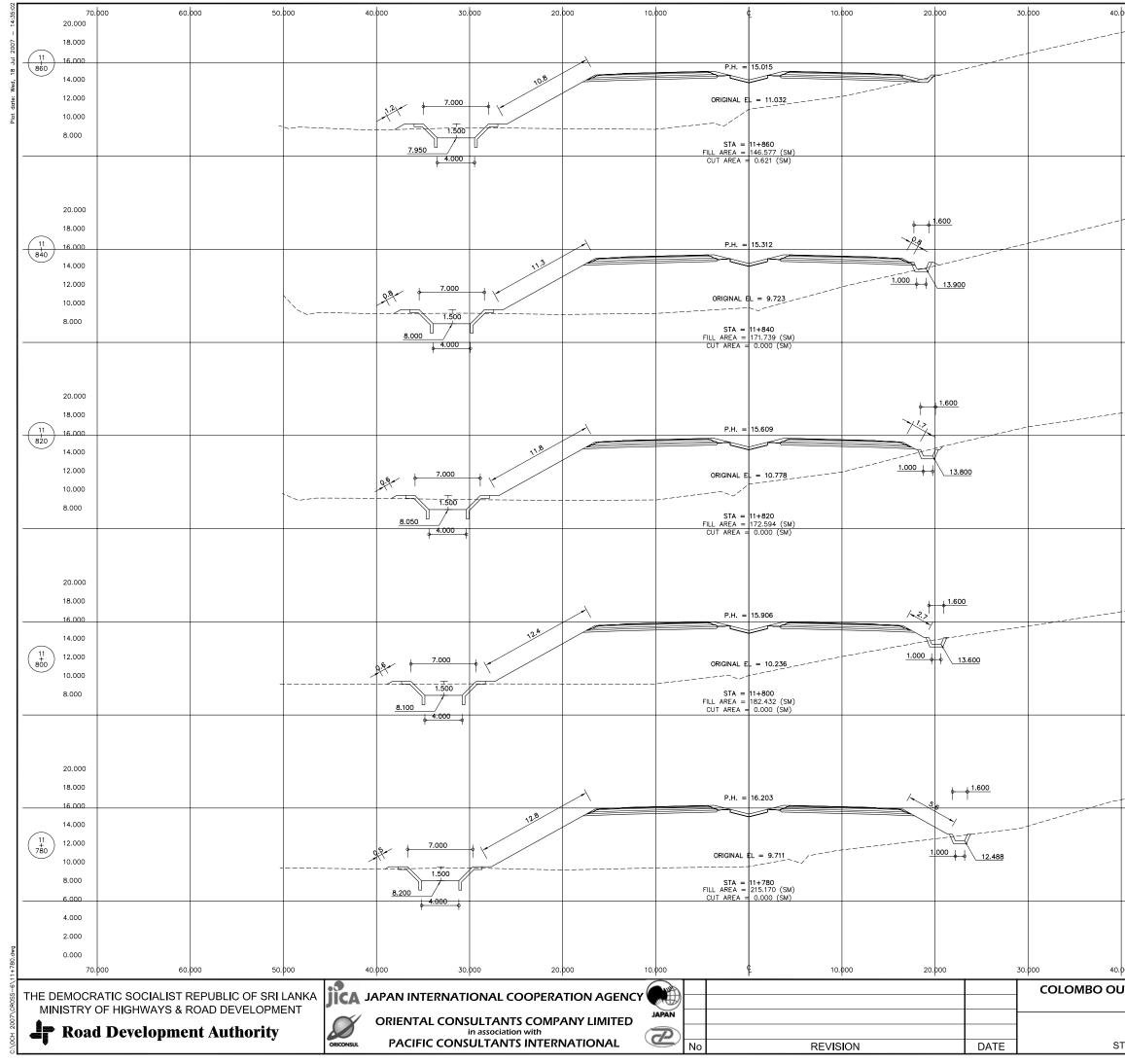
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					20.000	$\begin{pmatrix} 11\\ +\\560 \end{pmatrix}$
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					24.000	$\begin{pmatrix} 11\\ +\\520 \end{pmatrix}$
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วเ	JTER CIRCULAR	HIGHWAY PROJE	ст	DESIGNED BY:		
	(NORTHERN SECTION			CHECKED BY:		
	CROSS SECTION			APPROVED BY:		
	MAIN LINE			_		
S	TA. 11+480.000 TO 11	+560.000		DWG. NO	).   (	CS-036



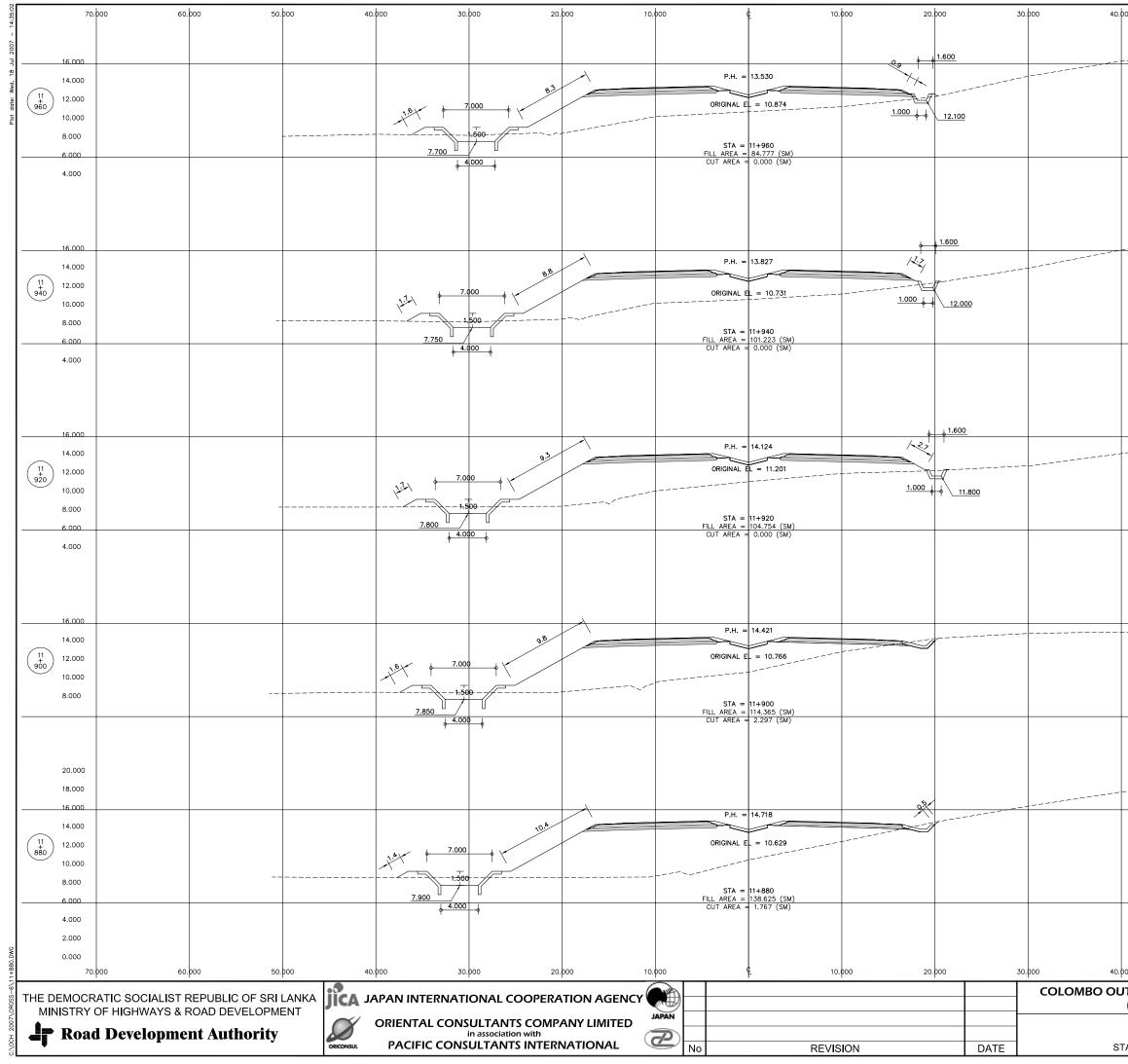
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	LAR HIGHWAY F	ROJECT		GNED BY:		
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CROSS S MAIN						\ <del>-</del>
STA. 11+580.000			D/	NG. NO.	CS-03	37



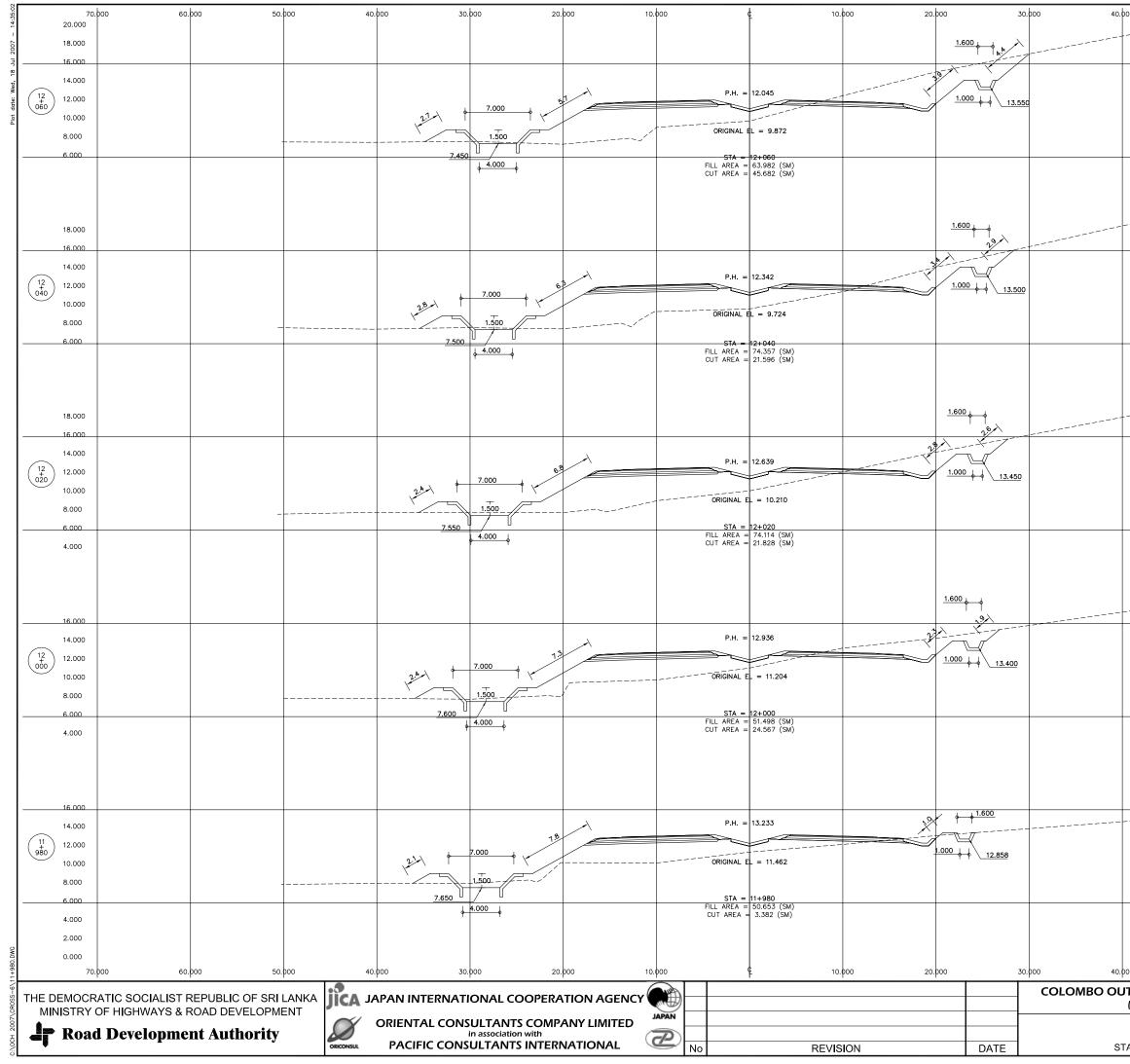
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					B.000	$\begin{pmatrix} 11\\ +\\720 \end{pmatrix}$
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(NORTHERN SECTION				_		
CROSS SECT	ON		APPROVED BY:			
MAIN LINE	700.007		DWG. NO	<u>,</u>	C	S-038
A 11+680 000 TO 11	+760.000			- 1	-	



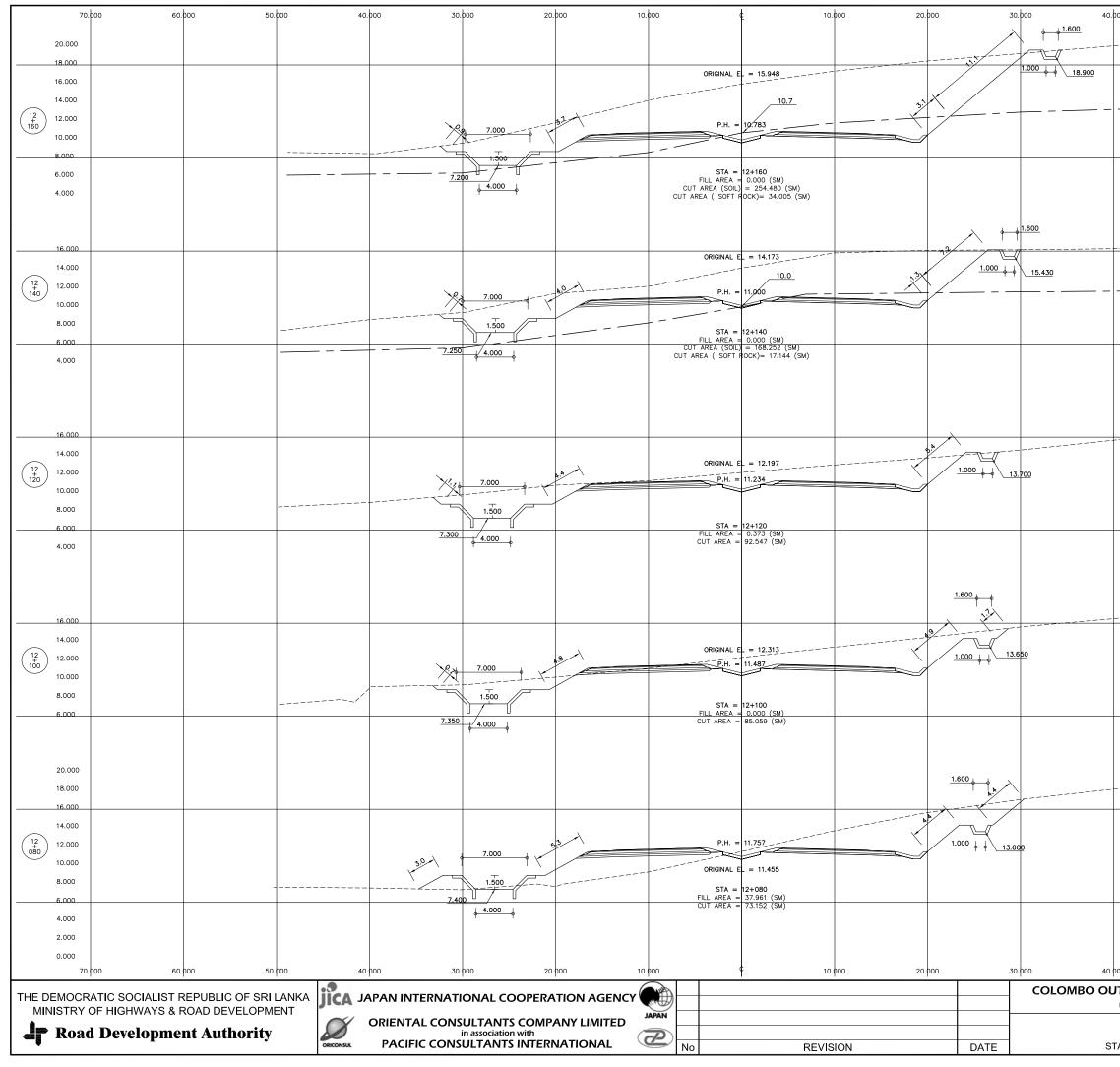
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<u>.</u>	JTER CIRCULAR I			DESIGNED BY:		
	(NORTHERN SECTION			CHECKED BY:		
CROSS SECTION APPROVED BY:						
	MAIN LINE					0.000
S	TA. 11+780.000 TO 11		DWG. NO	ן י	S-039	



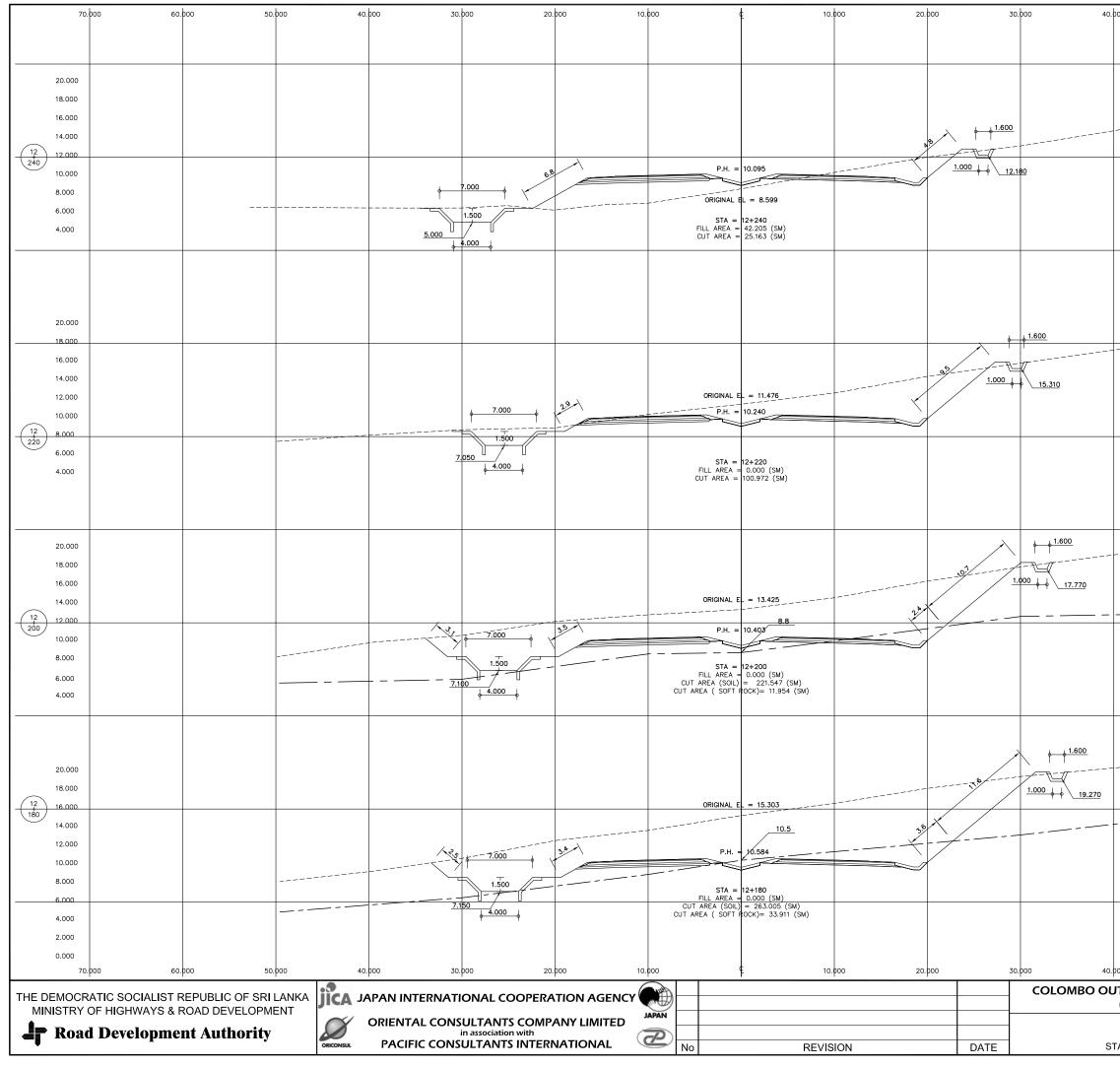
00	50.	60.	boo	70.	000		
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					1:	2.000	$\begin{pmatrix} 11\\ +\\ 920 \end{pmatrix}$
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					1	0.000	900
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		HIGHWAY PROJE	СТ	DESIGNED BY:			
(NORTHER				CHECKED BY:			
CROSS	SECTION	ON		APPROVED BY:			
	N LINE			DWG. NO	, I		S-040
A. 11+880.00	00 TO 11	+960 000			~		J-0 <del>-</del> 0



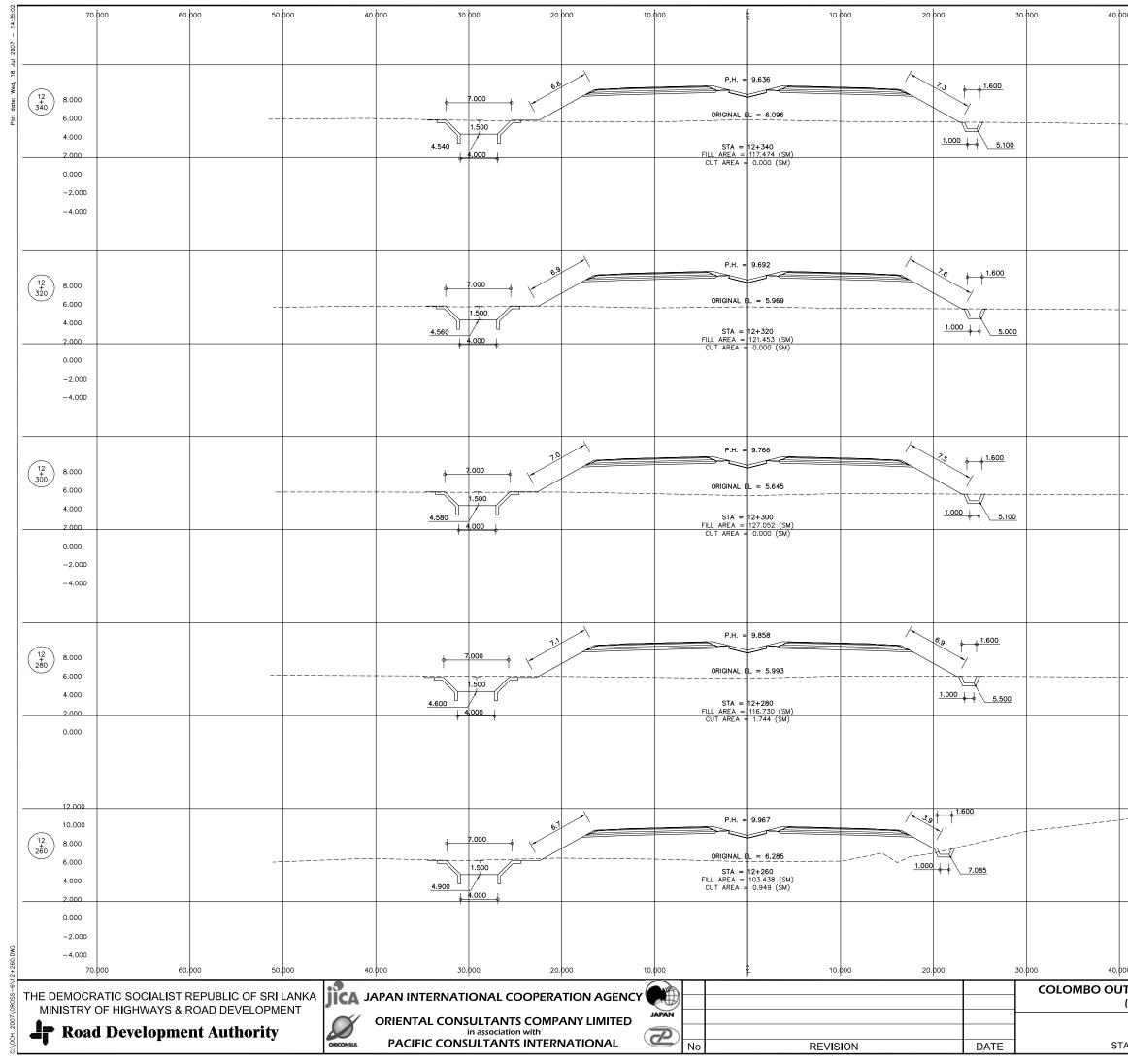
000 50.	60. boo	000	70.þ	00	
				20.000	
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				10.000	
				8.000	
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				16.000	
				14.000	0
				12.000	$\begin{pmatrix} 11\\ +\\ 980 \end{pmatrix}$
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				8.000	
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000 50.1	poo 60.	000	70.0		
	HIGHWAY PROJE	ст	DESIGNED BY:	_	
(NORTHERN SECTION			CHECKED BY:	_	
CROSS SECTION	UN			_	
MAIN LINE A 11+980 000 TO 12	2+060.000		DWG. NO	.  c	S-041



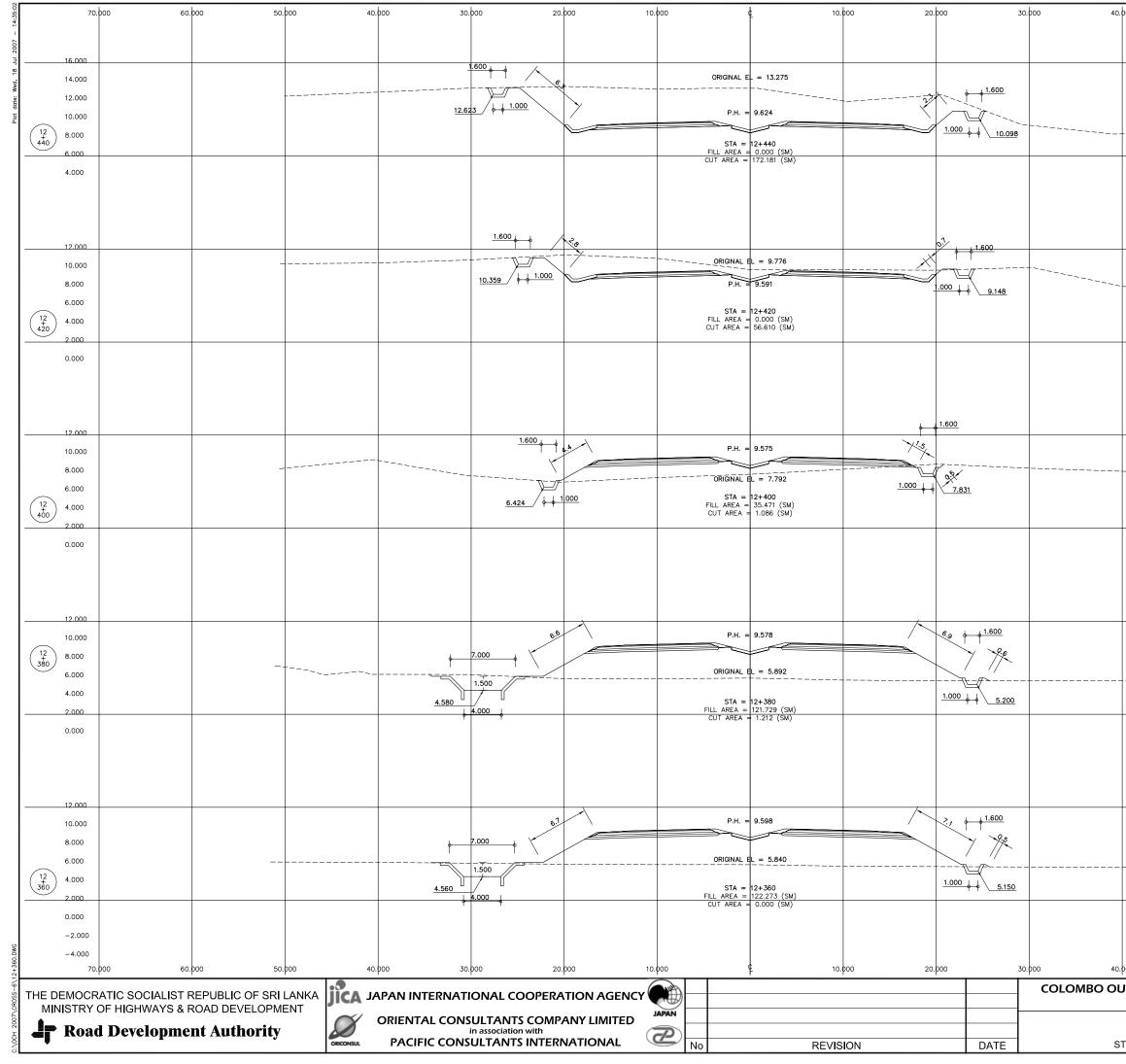
00		poo 60.	000	70. <b>0</b>	00
/	SOIL				
·L		1			20.000
					18.000
SOFT R	OCK				16.000
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					10.000
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					4.000
	SOIL				
		-			16.000
					14.000
	SOFT ROCK				12.000 (12 + 140
		-			140
					8.000
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					4.000
					16.000
					14.000
					$12.000  \begin{pmatrix} 12\\ +\\ 120 \end{pmatrix}$
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					8.000
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TER CIR		HIGHWAY PROJI		DESIGNED BY:	
	RN SECTI			CHECKED BY:	
	S SECTI	ON		APPROVED BY:	
MAIN LINE A 12+080 000 TO 12+160 000				DWG. NO	. CS-042



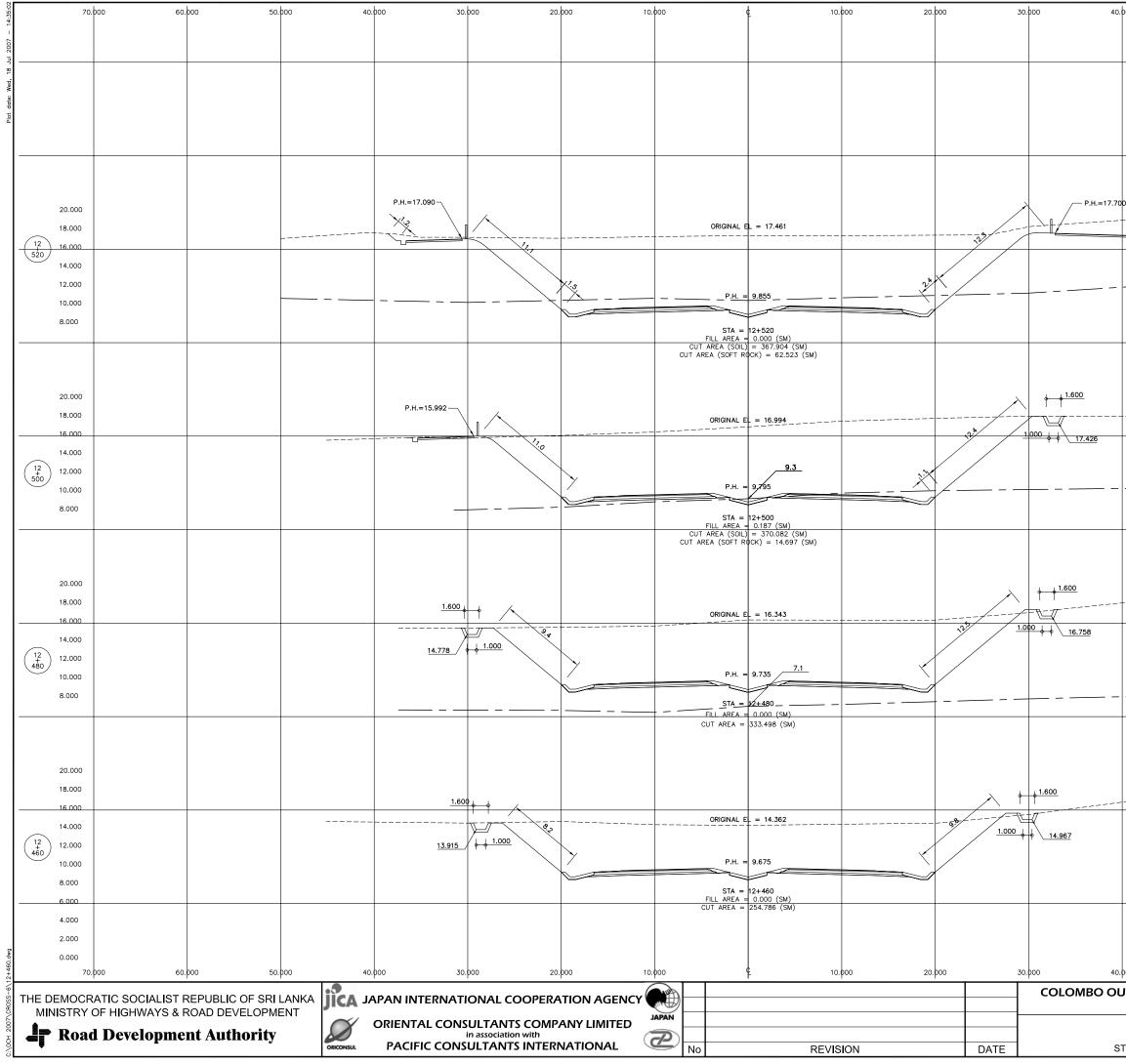
		1	1			
40.	000 50.	000 60. <sup>.</sup>	000	70.0	00	
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					18.000	
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					10.000	
					8.000	(12)
					6.000	220
					4.000	
					4.000	
	SOIL				00.000	
					20.000	
					18.000	
	SOFT ROCK				16.000	
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					12.000	200
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					8.000 6.000	
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		-			20.000	
					18.000	
D	SOFT ROCK				16.000	(12)
		-			14.000	180
					12.000	
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40.	D00 50.1	, 000 60.	роо	70.0		
40.000         50.000         60.000           OUTER CIRCULAR HIGHWAY PROJECT				DESIGNED BY:		
(NORTHERN SECTION 1)				CHECKED BY:		
CROSS SECTION				APPROVED BY:		
S	MAIN LINE TA. 12+180.000 TO 12	+240.000		DWG. NO. CS-043		
STA. 12+180.000 TO 12+240.000						



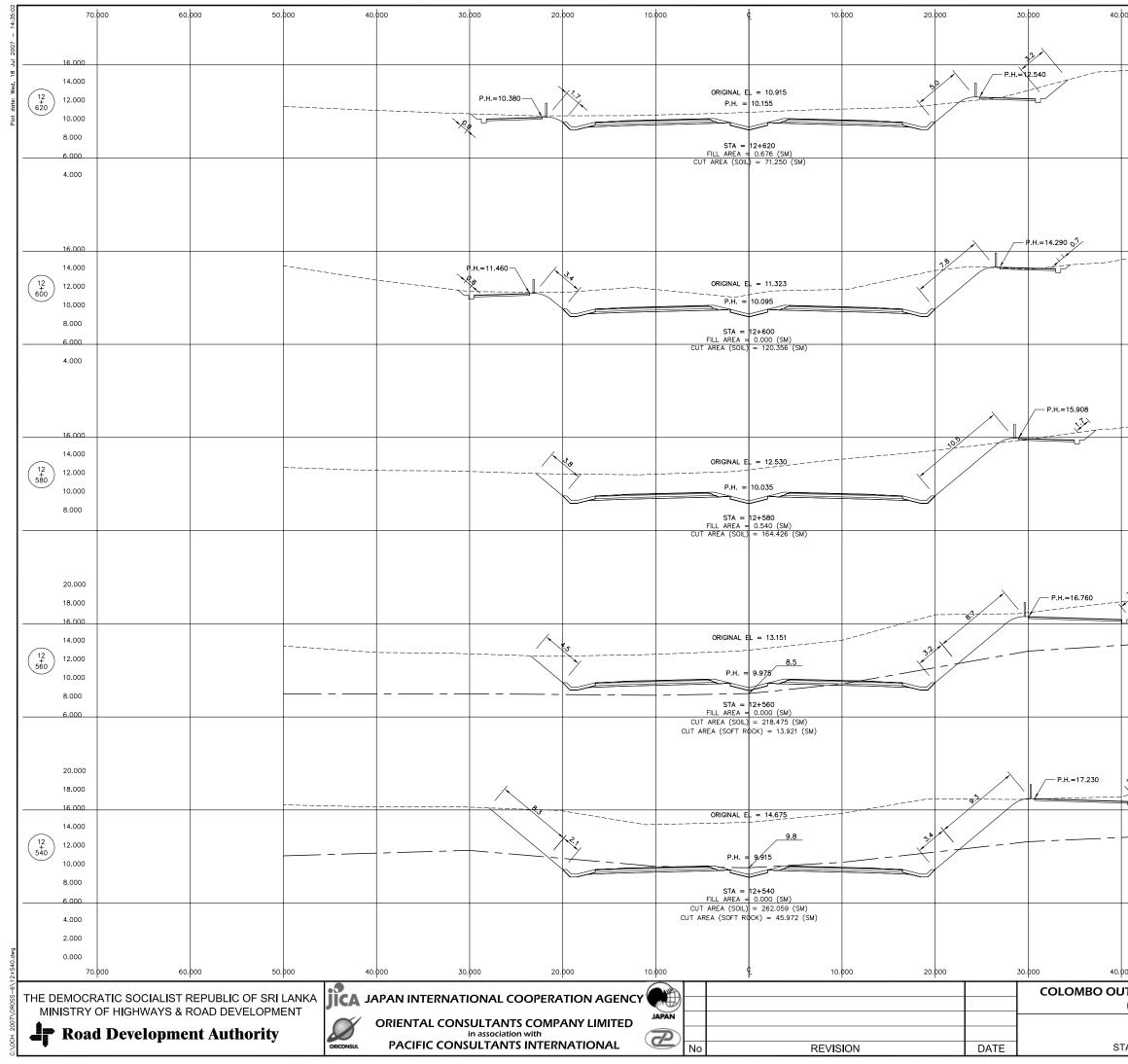
00 5	0.000	50.þ00	70. <b>0</b>	000	
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					(12)
				8.000	$\begin{pmatrix} 12\\ +\\ 340 \end{pmatrix}$
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		_		2.000	
				0.000	
				0.000	
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					$\frown$
				8.000	$\begin{pmatrix} 12\\ +\\ 320 \end{pmatrix}$
				6 000	320
				6.000	
				4.000	
				2.000	
				0.000	
				-2.000	
				-4.000	
					(12)
				8.000	$\begin{pmatrix} 12\\ +\\ 300 \end{pmatrix}$
				6.000	$\smile$
				4.000	
				4.000	
				2.000	
				0.000	
				-2.000	
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					$\frown$
				8.000	$\begin{pmatrix} 12\\ +\\ 280 \end{pmatrix}$
				6.000	280
				0.000	
				4.000	
				2.000	
				0.000	
				12.000	
				12.000	
				10.000	
				8.000	(12 + 260
					260
				6.000	-
				4.000	
				2.000	
				0.000	
				-2.000	
				-4.000	
00 5	0.000	50.000	70.p	000	
	HIGHWAY PRO		DESIGNED BY		
(NORTHERN SEC		JLCI	CHECKED BY:		
			APPROVED BY:		
CROSS SECT					
MAIN LINE			DWG. NC	).   c	S-044
A 1774760 000 10				1 -	



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·					8.000	$\begin{pmatrix} 12 \\ + \\ 440 \end{pmatrix}$
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					4.000	$\begin{pmatrix} 12 \\ + \\ 420 \end{pmatrix}$
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					6.000	
					4.000	(12 + 400
					2.000	400
					0.000	
					0.000	
					12.000	
					10.000	
					8.000	$\begin{pmatrix} 12\\ +\\ 380 \end{pmatrix}$
					6.000	380
					4.000	
					2.000	
					0.000	
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					12.000	
					10.000	
					8.000	
					6.000	
					4.000	$\begin{pmatrix}12\\+\\360\end{pmatrix}$
					2.000	360
					0.000	
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	40.þoo 50.þoo 60.þoo 70.þoo					
OUTER CIRCULAR HIGHWAY PROJECT DESIGNED BY: (NORTHERN SECTION 1) CHECKED BY:					_	
				APPROVED BY:	-	
	MAIN LINE					2.045
MAIN LINE STA. 12+360.000 TO 12+440.000				DWG. NC	).   C	S-045

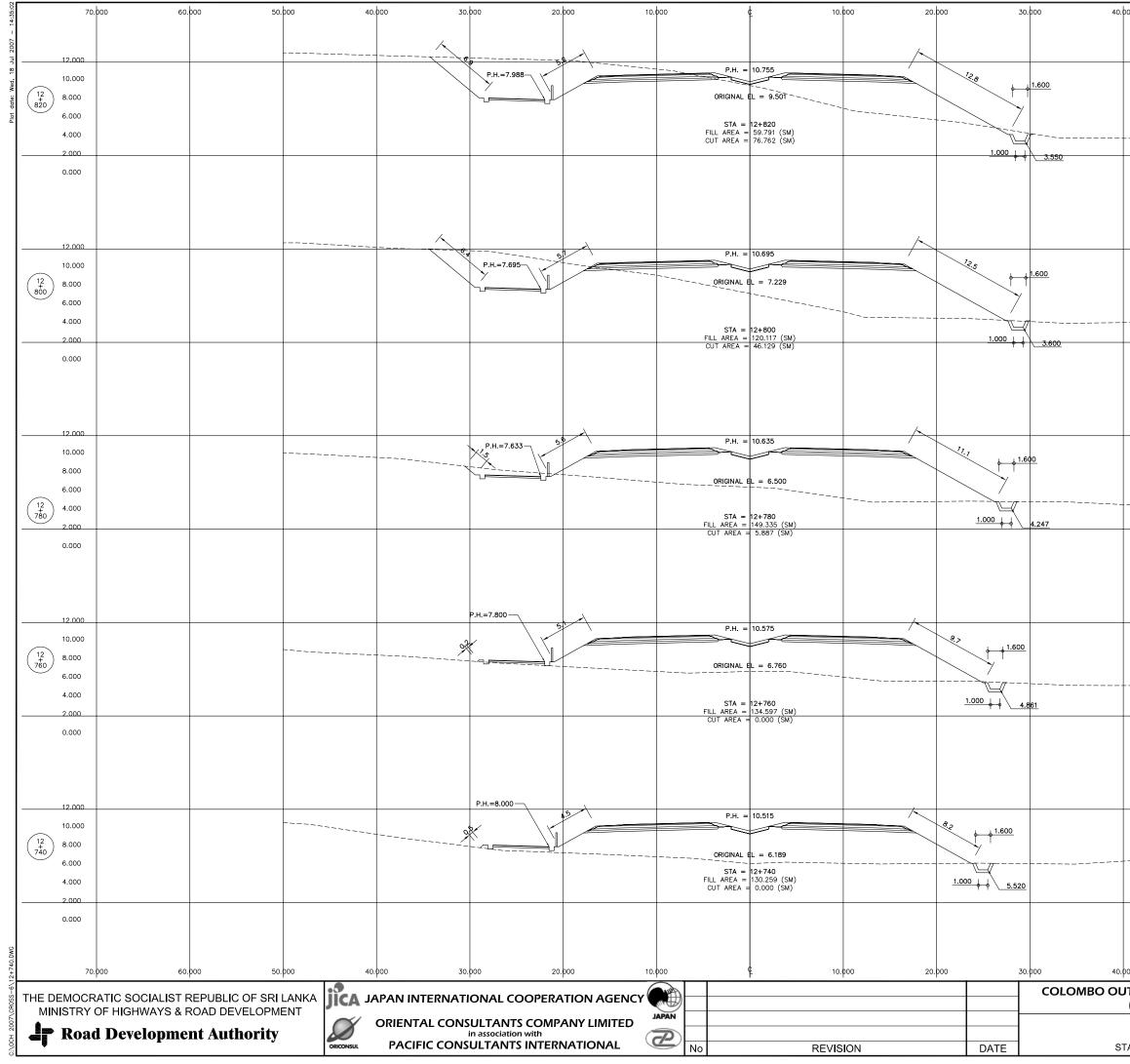


40.	50.	000 60. <sup>.</sup>	000	70.0	000		
	_	—SOIL					
7.70					20	.000	
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					18	.000	
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					10		520
	SOFT ROCK				14	.000	0
					12	.000	
_							
					10	.000	
					8	.000	
					-		
	SOIL				20	.000	
	/				18	.000	
					16	.000	
					14	.000	$\frown$
	SOFT ROCK				12	.000	$\begin{pmatrix} 12\\ +\\500 \end{pmatrix}$
_	/				10		500
					10	.000	
					8	.000	
	SOIL				20	.000	
	/				18	.000	
					10		
					16	.000	
					14	.000	
					12	.000	$ \begin{pmatrix} 12 \\ + \\ 480 \end{pmatrix} $
	SOFT ROCK				10	.000	
_					8	.000	
						.000	
					20		
		-			18	.000	
					16	.000	
					14	.000	_
					12	.000	(12 + 460
							460
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40.	000 <u>50</u>	000 60.	000	70.0			
	40.þoo 50.þoo 60.þoo 70.þoo						
OUTER CIRCULAR HIGHWAY PROJECT							
(NORTHERN SECTION 1) CHECKED BY:							
				APPROVED BY:	Γ		
						-	
S	MAIN LINE STA. 12+460.000 TO 12+520.000			DWG. NC	.	C	S-046
-							

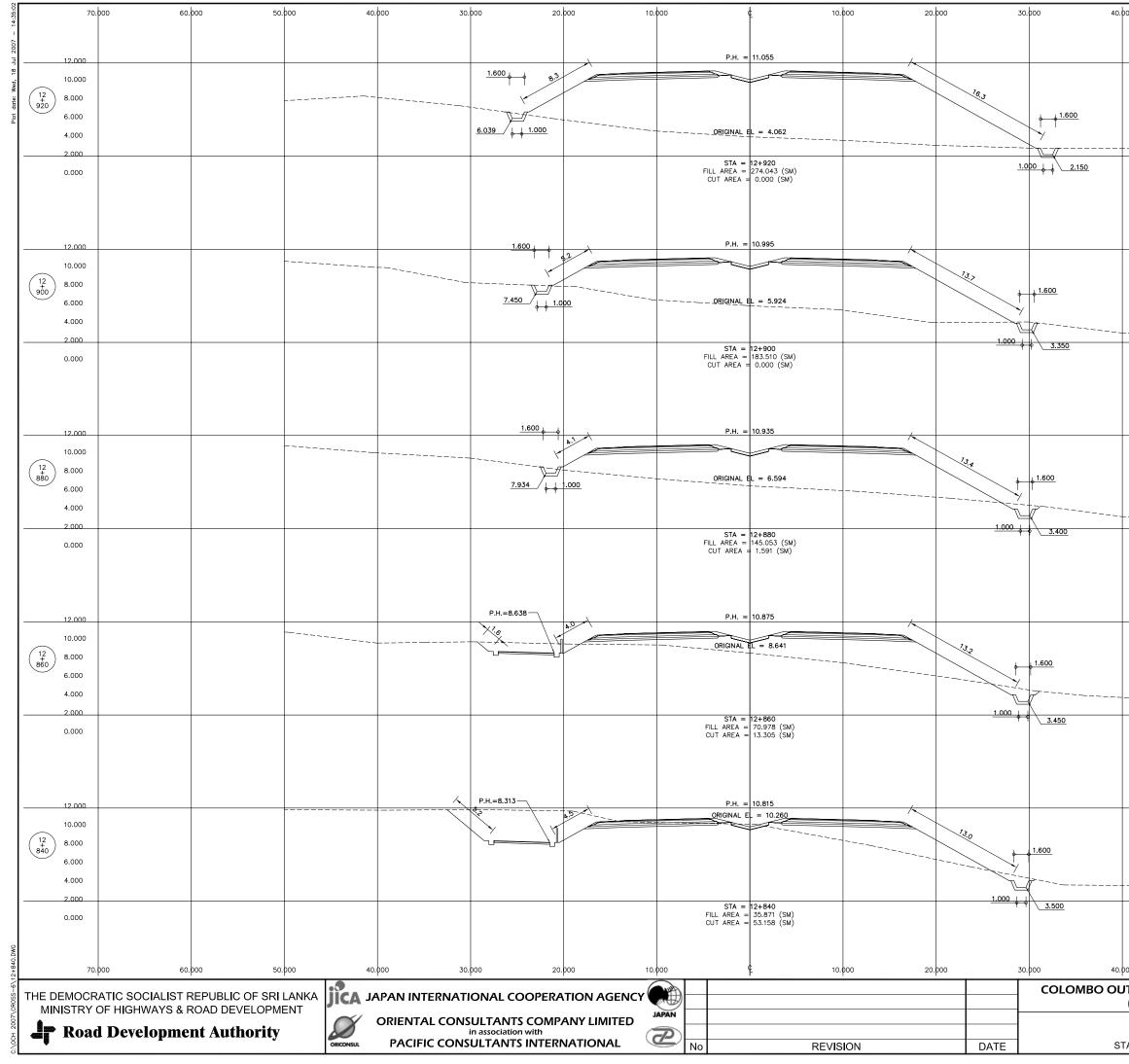


00 50.	poo 60.	boo	70.þc	00	
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				14.000	
				12.000	12
				12.000	$\begin{pmatrix} 12\\ +\\620 \end{pmatrix}$
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				6 000	
				6.000	
				4.000	
				16.000	
				14.000	
				12.000	$\begin{pmatrix} 12\\ +\\600 \end{pmatrix}$
					600
				10.000	
				8.000	
				6.000	
				4.000	
				16.000	
				14.000	$\frown$
				12.000	$\begin{pmatrix} 12\\ +\\580 \end{pmatrix}$
				10.000	500
				8.000	
SOIL				20.000	
3.1					
				18.000	
				16.000	
SOFT ROCK				14.000	
					(12)
				12.000	$\begin{pmatrix} 12 \\ + \\ 560 \end{pmatrix}$
				10.000	$\smile$
				8.000	
				6.000	
SOIL				20.000	
2.01				18.000	
				16.000	
				14.000	
				12.000	12
					(12 + 540
				10.000	
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00		000			
	poo 60.		70.þc		
TER CIRCULAR I	HIGHWAY PROJE	СТ	DESIGNED BY:		
(NORTHERN SECTION	ON 1)		CHECKED BY:		
CROSS SECTION	 ON		APPROVED BY:		
MAIN LINE					NO 047
A. 12+540.000 TO 12	2+620.000		DWG. NO.	·   ·	S-047

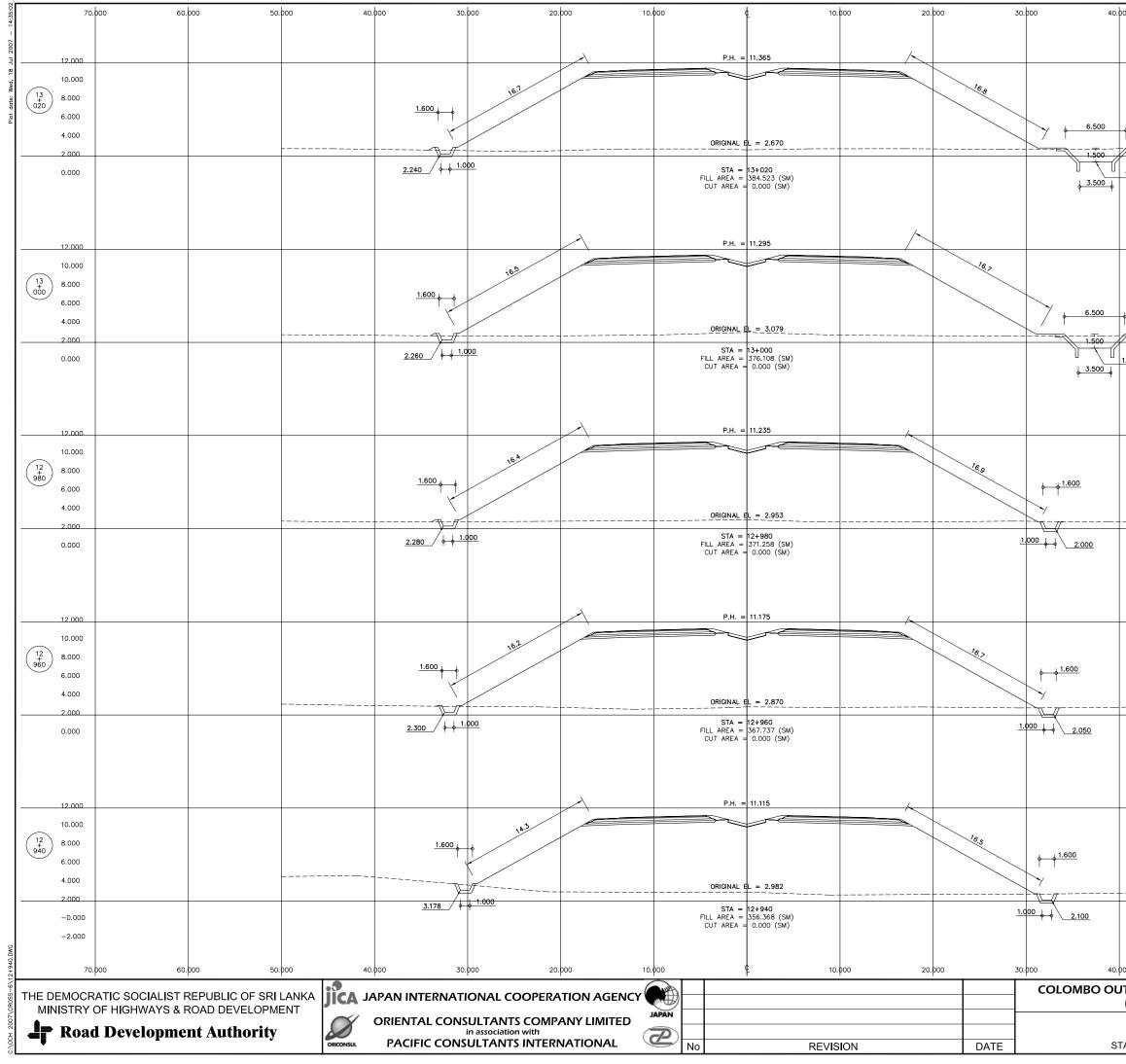
70. 70.	boo 60.boo 50.boo	40.boo 30.boo	20.000 10.	boo ¢	10.000 20.000	30.boo 40.boo 9	50.boo 60.boo	70.boo
12.000 10.000 10.000 10.000 10.000 10.000 10.000 6.000 4.000 2.000			P.H.=8.200	P.H. = 10.455 ORIGINAL EL = 6.643 STA = 12+720 FILL AREA = 113.051 (SM) CUT AREA = 0.512 (SM)	Р.н.=7.29	° %.		12.000 10.000 8.000 6.000 4.000 2.000
12.000 10.000 (12 700) 6.000 4.000 2.000		**	P.H.=8.400	P.H. = 10.395 ORIGINAL EL = 7.299 STA = 12+700 FILL AREA = 83.020 (SM) CUT AREA = 1.584 (SM)	P.H.=8.290			12.000 10.000 8.000 6.000 4.000 2.000
14.000 12.000 10.000 (12 680 8.000 6.000 4.000 2.000		······	P.H.=8.638	P.H. = 10.335 ORIGINAL EL = 8.422 STA = 12+680 FILL AREA = 37.823 (SM) CUT AREA = 4.938 (SM)	P.H.=9.290			16.000 14.000 12.000 10.000 8.000 4.000 2.000
$ \begin{array}{c}     16.000 \\     14.000 \\     12.000 \\     \hline     12 \\     660 \\     8.000 \\     \hline     6.000 \\     4.000 \\     2.000 \\ \end{array} $		·	P.H.=8.950	P.H. = 10.275 ORIGINAL EL = 8.943 STA = 12+660 FILL AREA = 18.061 (SM) CUT AREA = 25.277 (SM)	P.H.=	10.290		16.000 14.000 12.000 10.000 6.000 4.000 2.000
16.000 14.000 (12 + 640 10.000 8.000 6.000 4.000 2.000		·	P.H.=9.483	ORIGINAL EL = 10.681 P.H. = 10.215 STA = 12+640 FILL AREA = 0.000 (SM) CUT AREA = 87.547 (SM)	30 	I.= 1.290		16.000 14.000 12.000 12.000 8.000 6.000 4.000 2.000
	μοο <u>60.μοο</u> 50.μοο RATIC SOCIALIST REPUBLIC OF SRI LANK OF HIGHWAYS & ROAD DEVELOPMENT <b>d Development Authority</b>	ORIENTAL CONSUL		APAN	10.000 20.000	30.000 40.000 STA. 12+640.000 TO	TION 1) TION E	70. poo       DESIGNED BY:       CHECKED BY:       APPROVED BY:       DWG. NO.



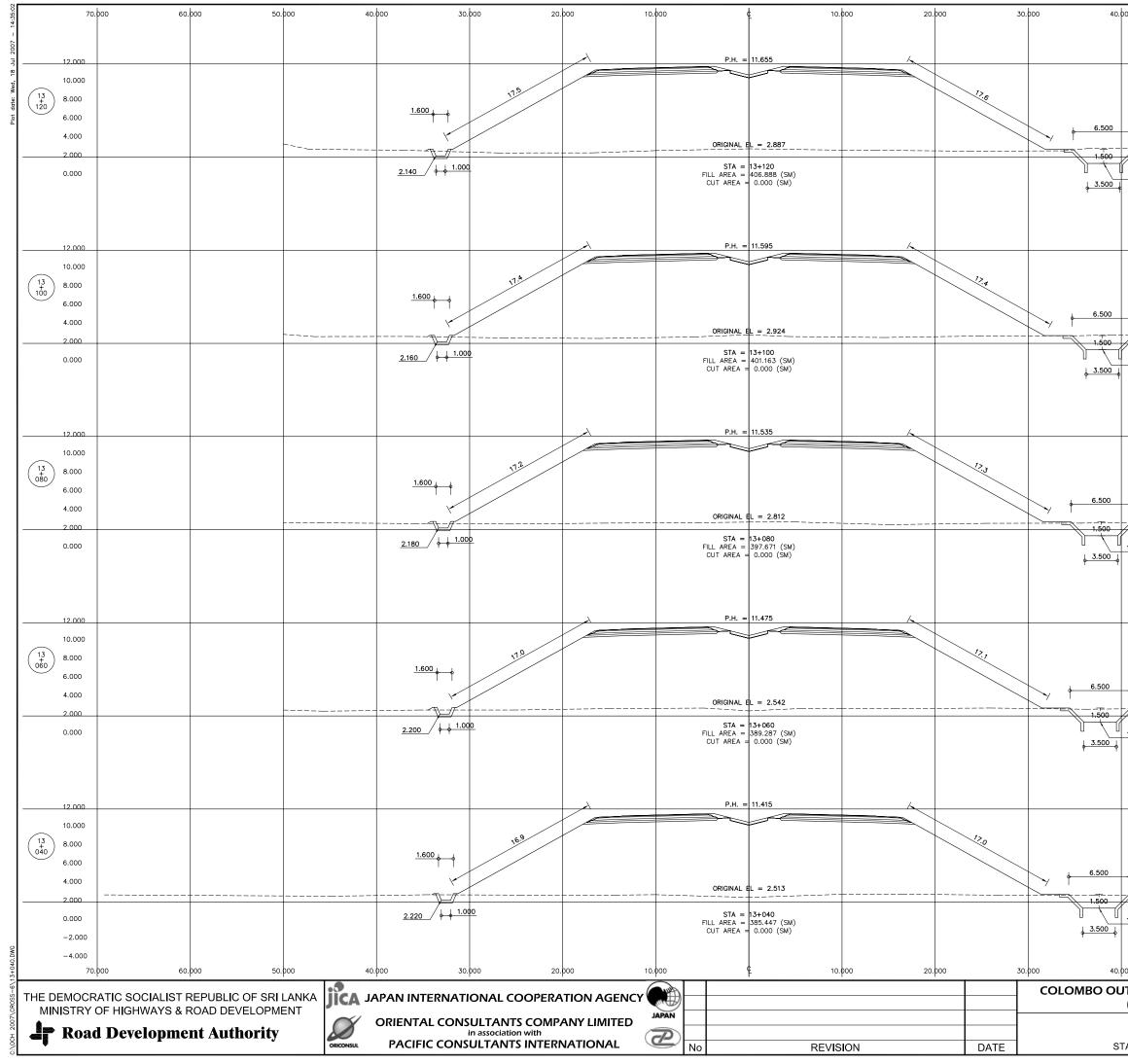
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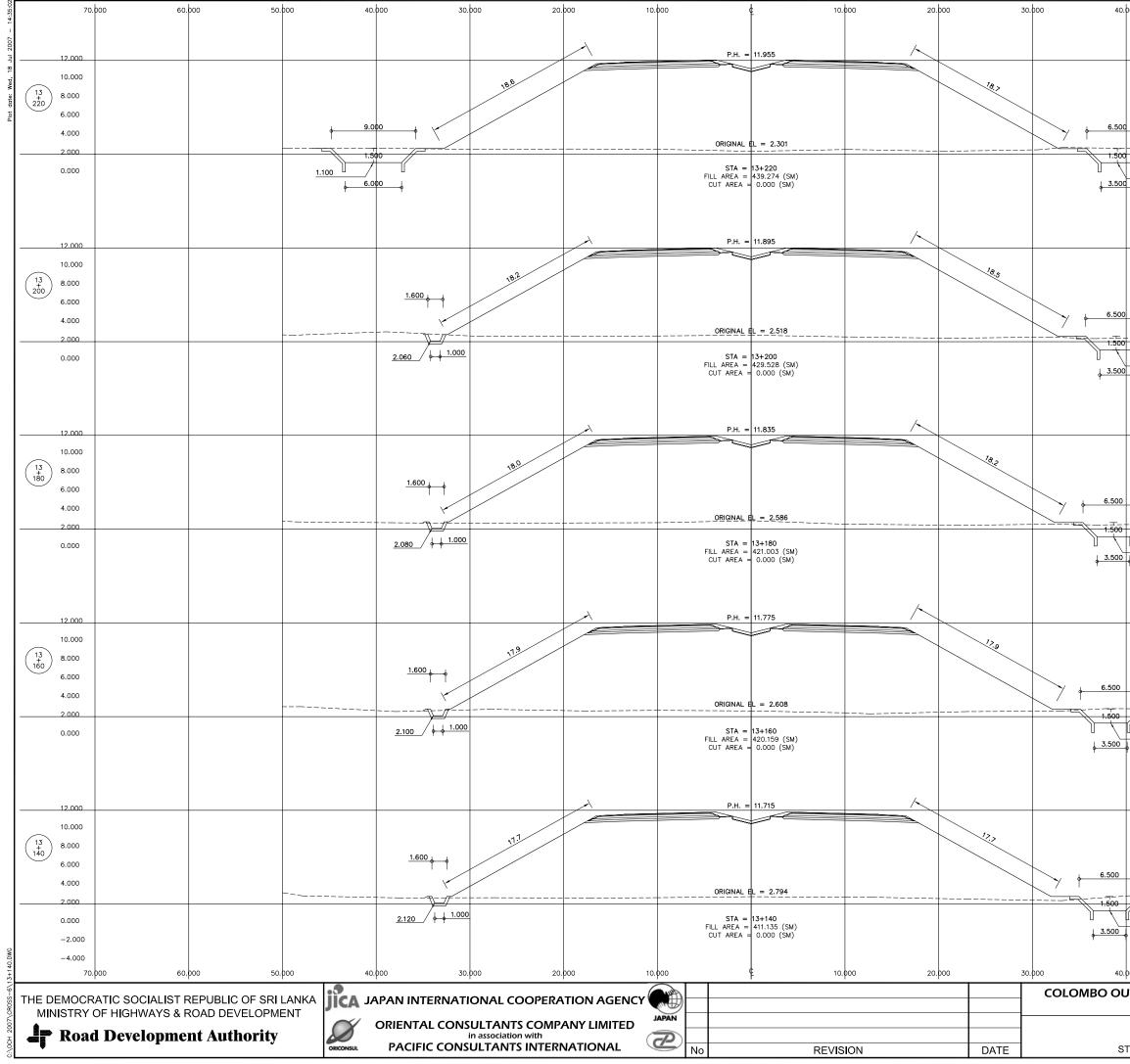
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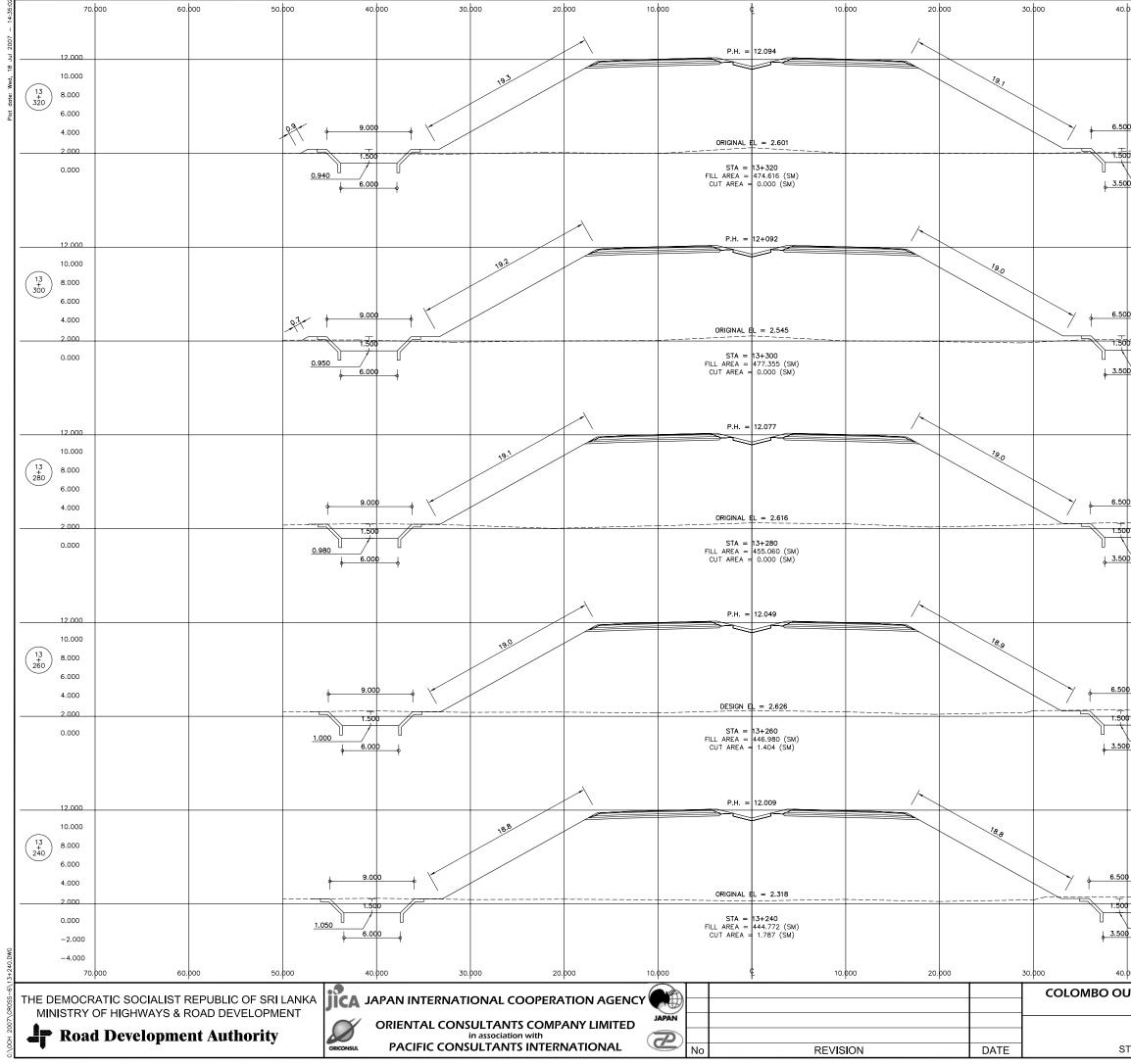
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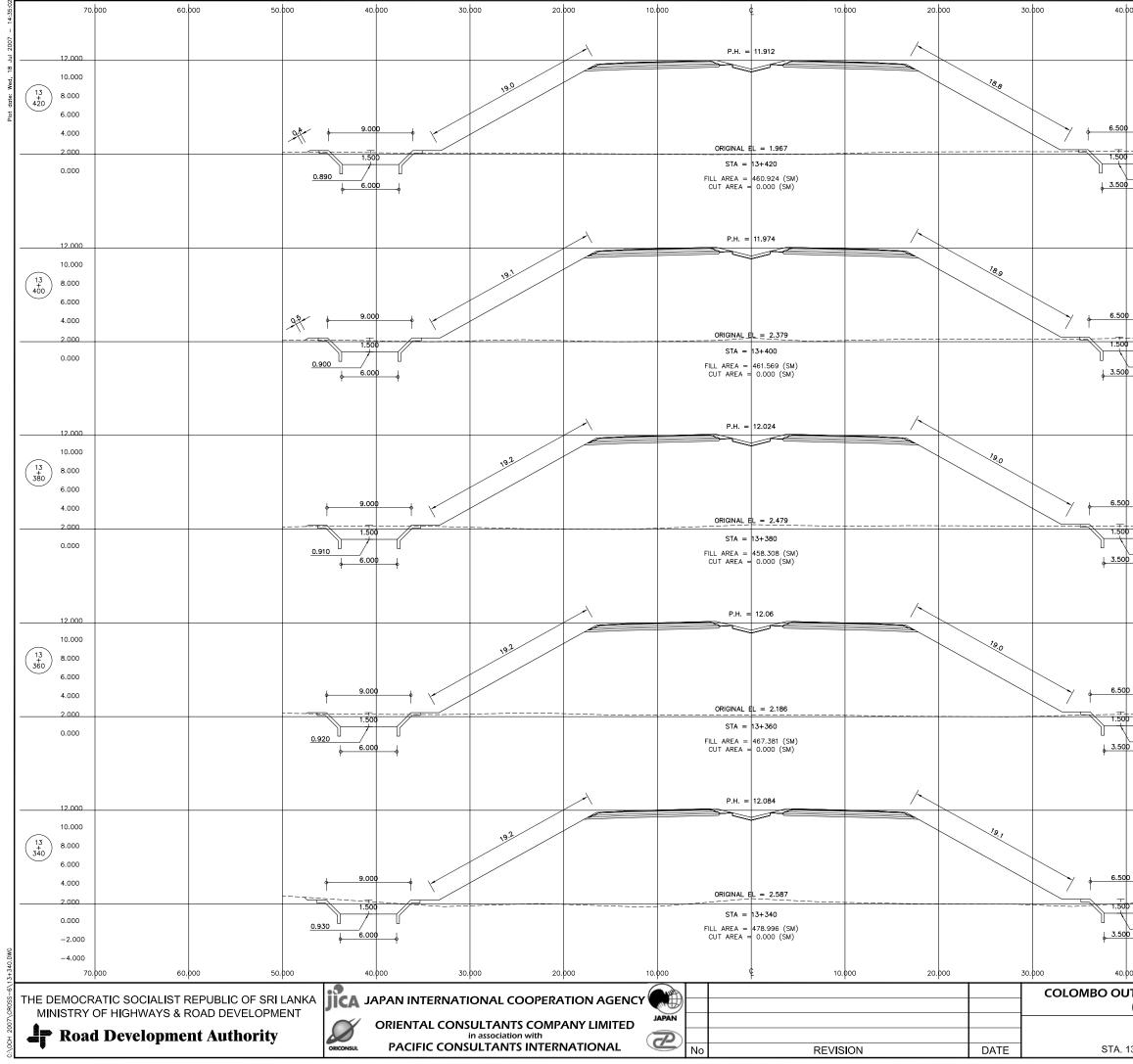
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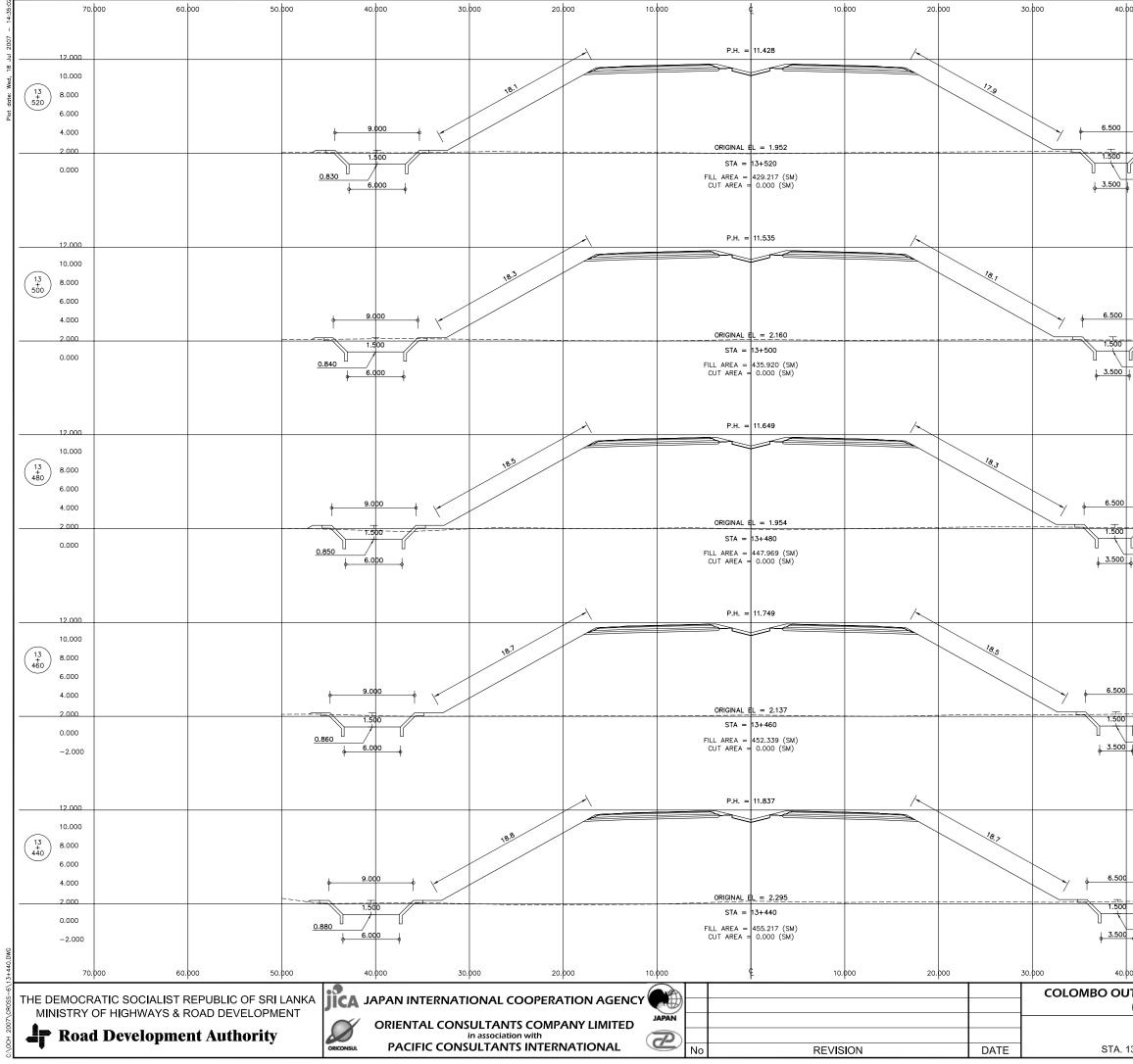
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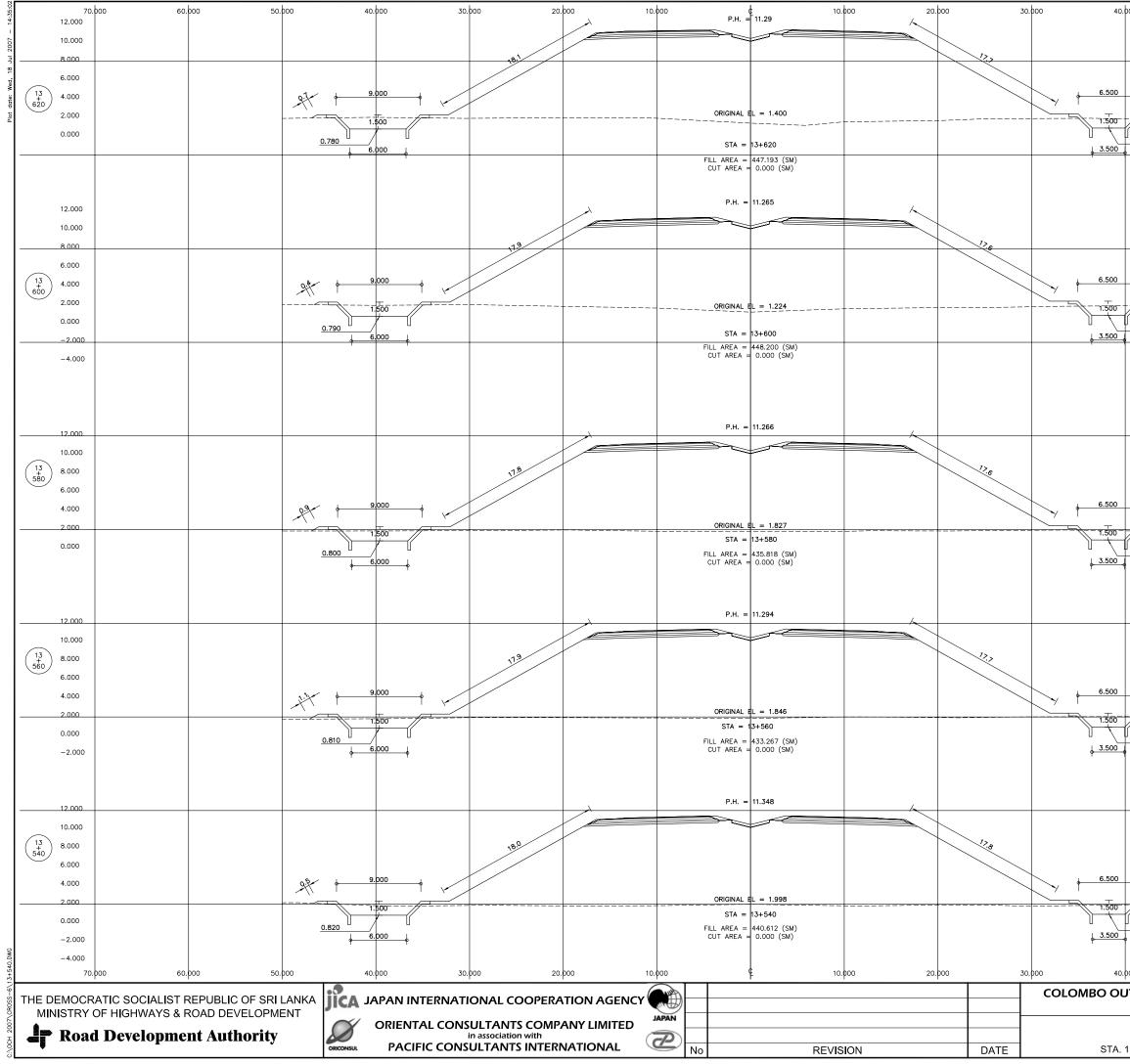
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STA. 13+240.000 TO 13	3+320.000		DWG. NO	·   <sup>CS</sup>	6-054



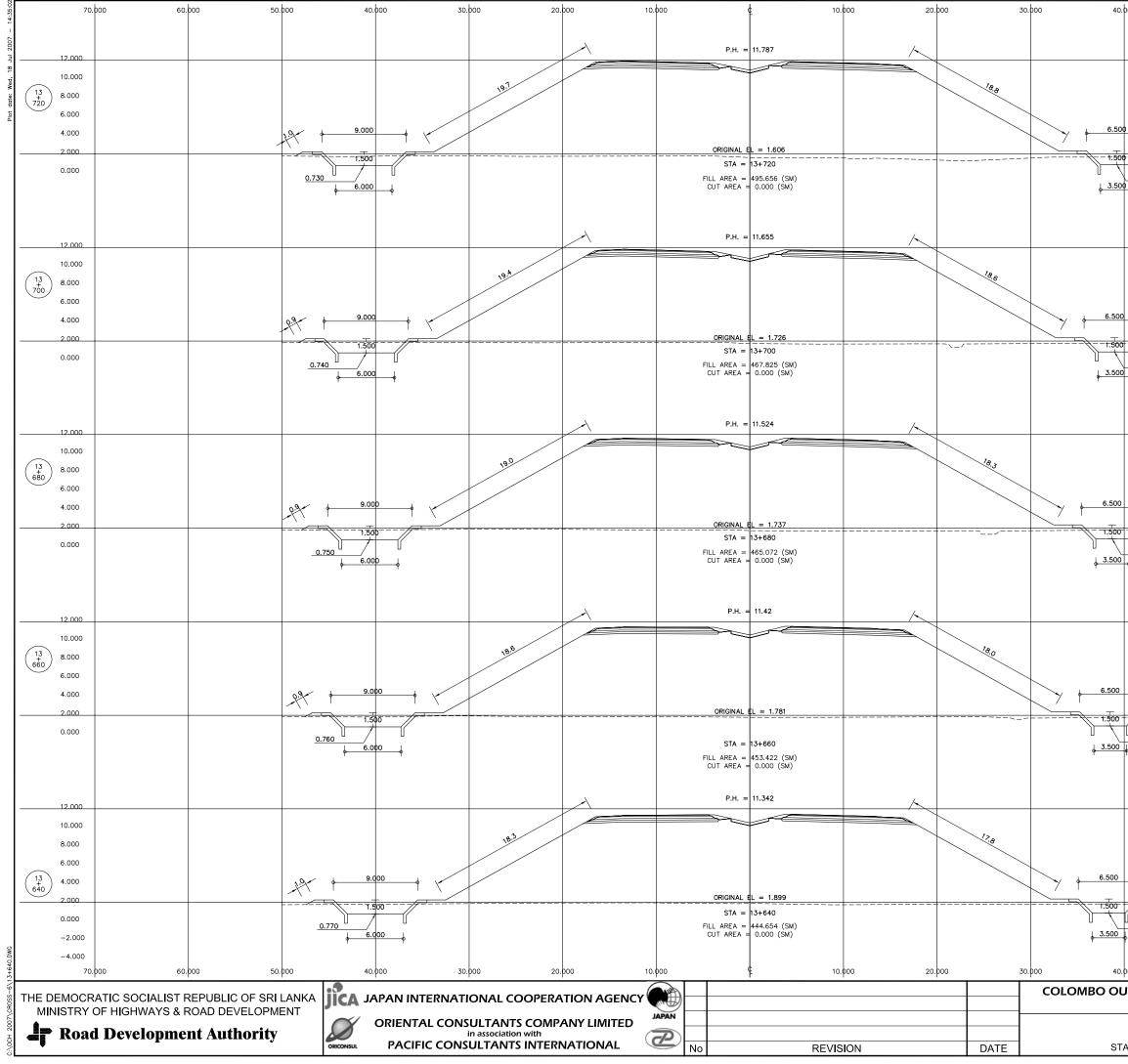
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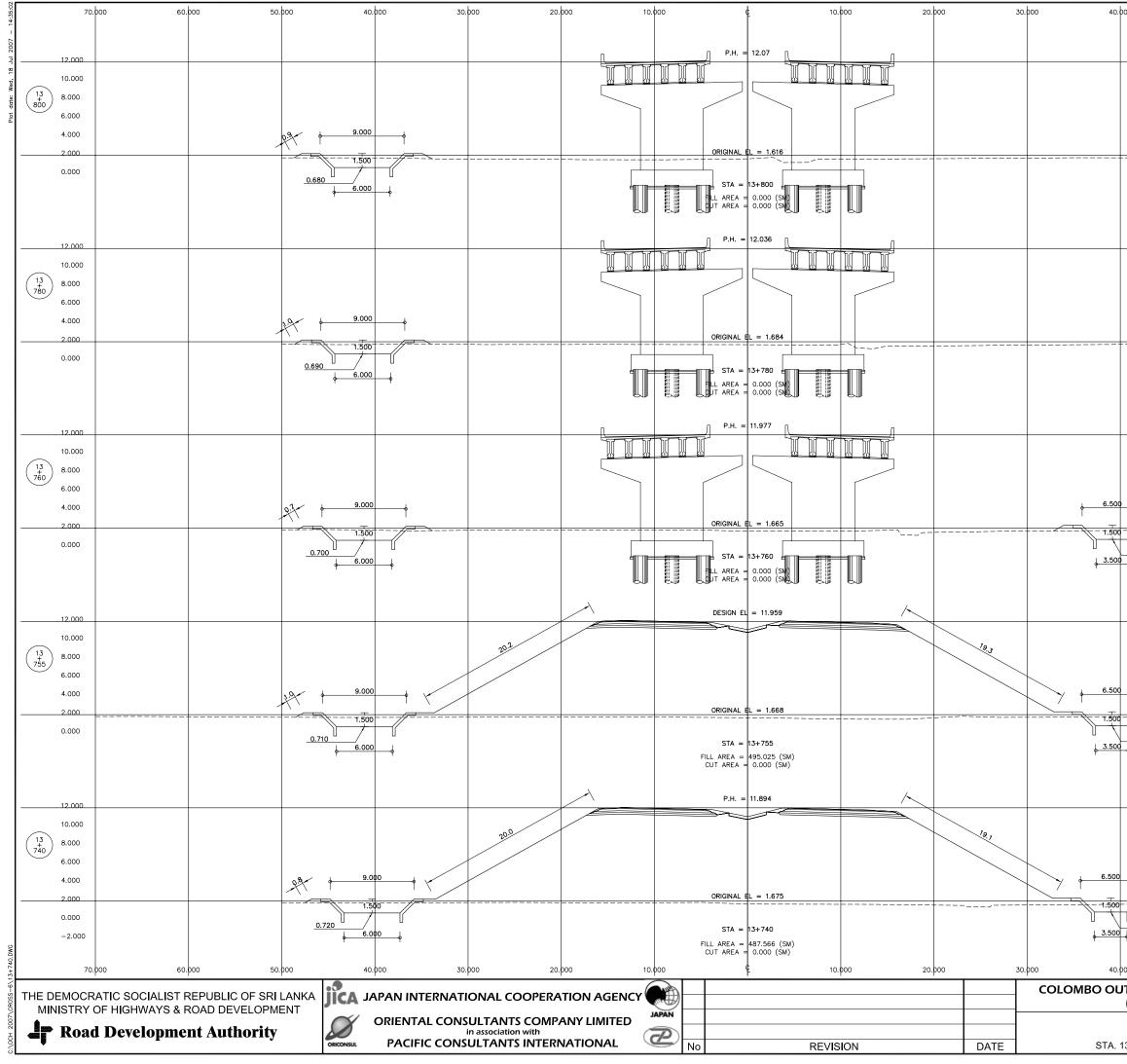
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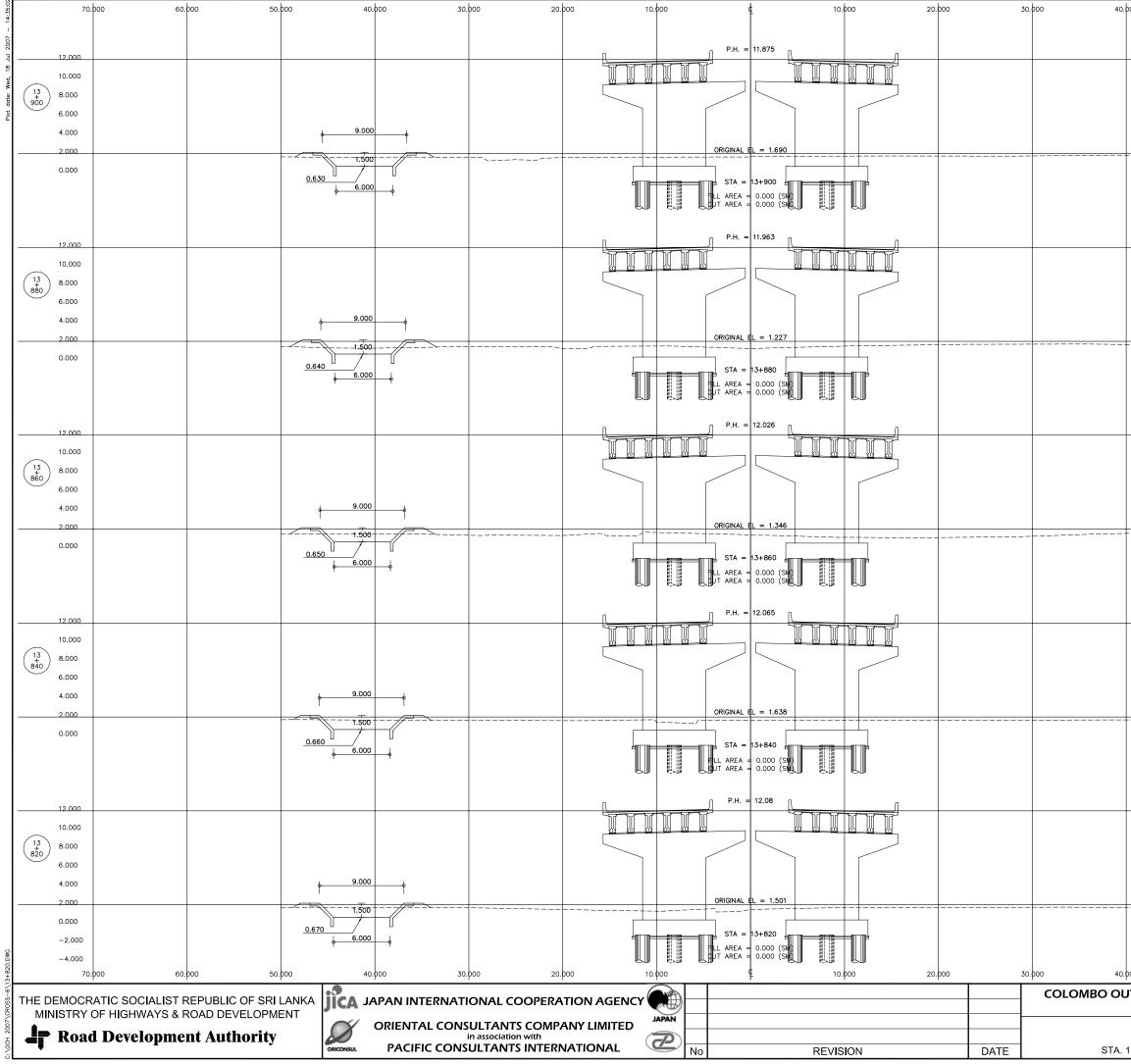
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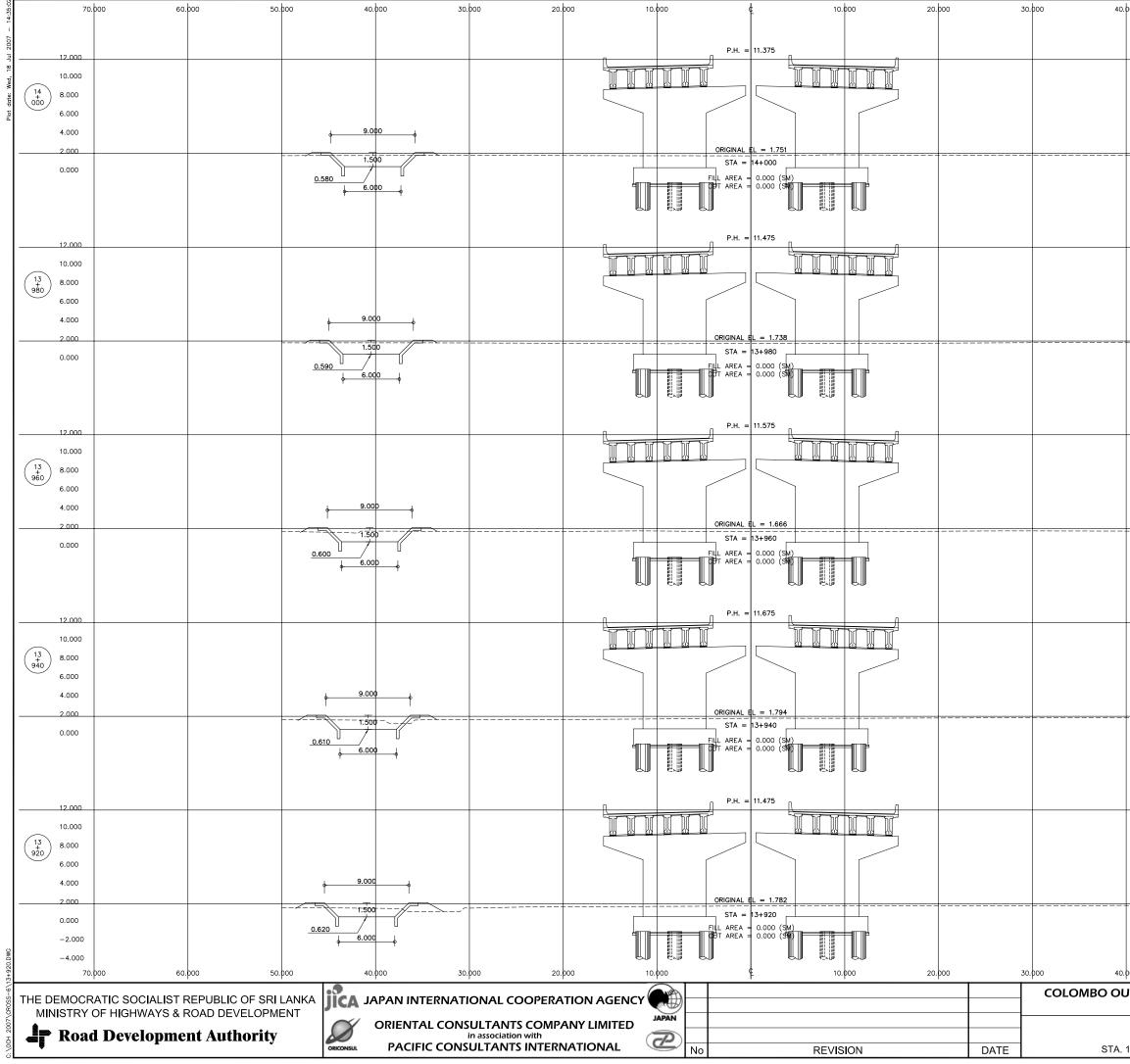
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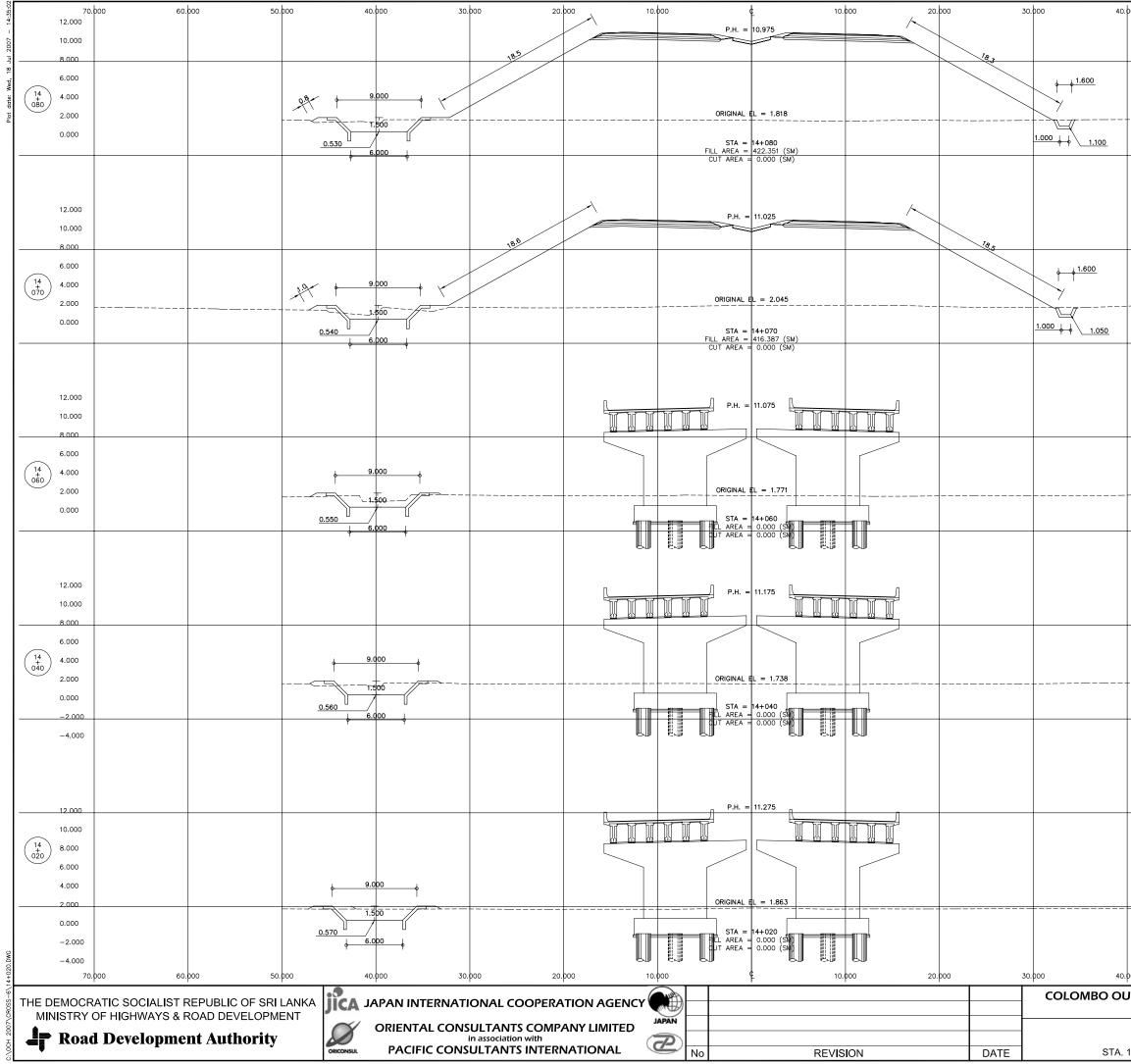
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TER CIRCULAR I	HIGHWAY PROJE	СТ	DESIGNED BY:		
(NORTHERN SECTION	ON 1)		CHECKED BY:		
CROSS SECTION			APPROVED BY:		
MAIN LINE	0.000		DWG. NC	).	CS-059
3+740.000 TO 13+80	0.000			- 1	



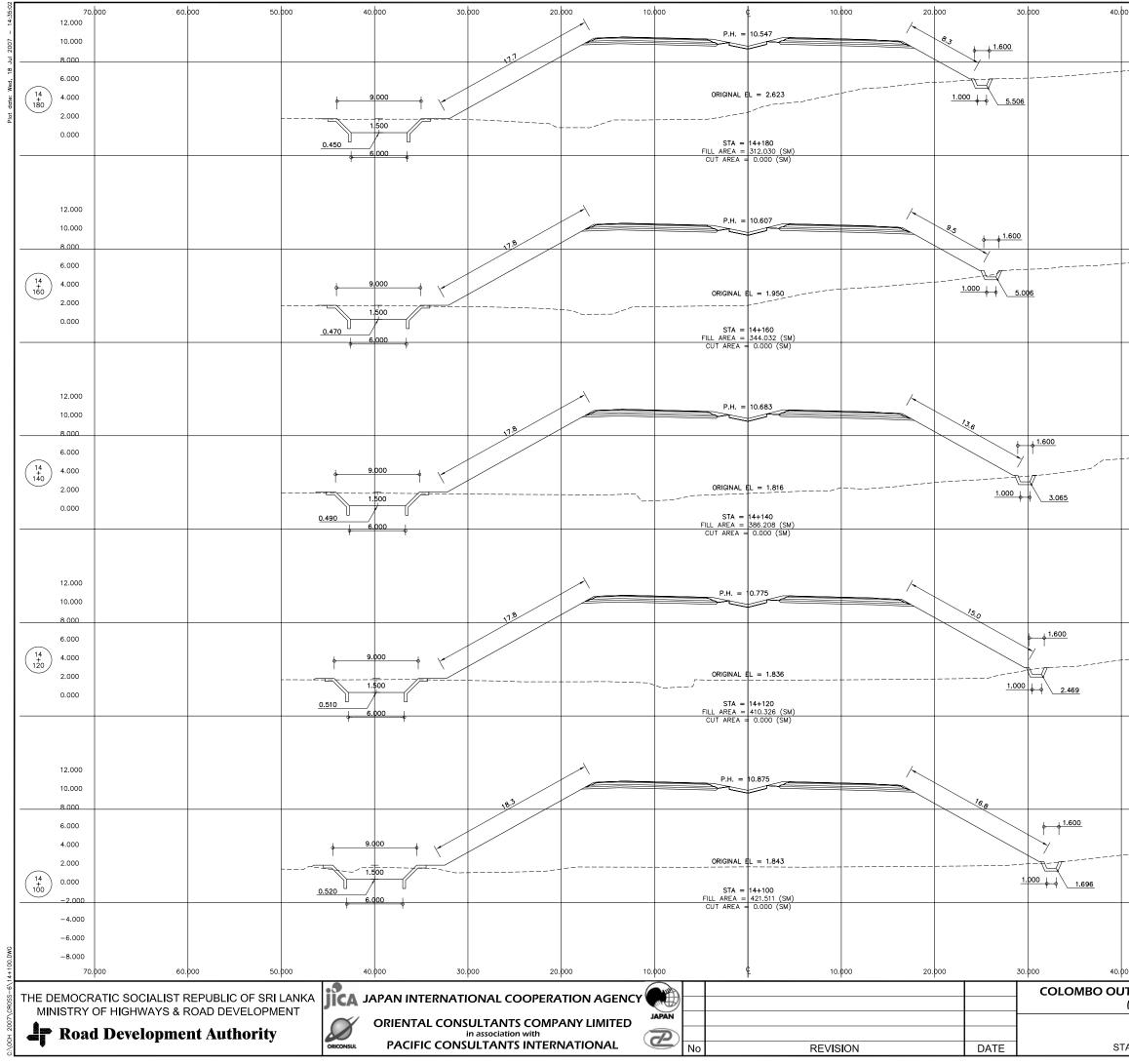
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	(NORTHERN SECTION				_	
	CROSS SECTION	NC		APPROVED BY:		
	MAIN LINE			DWG. NO		S-060
STA.	13+820.000 TO 13+90	0.000			·   ·	0-000



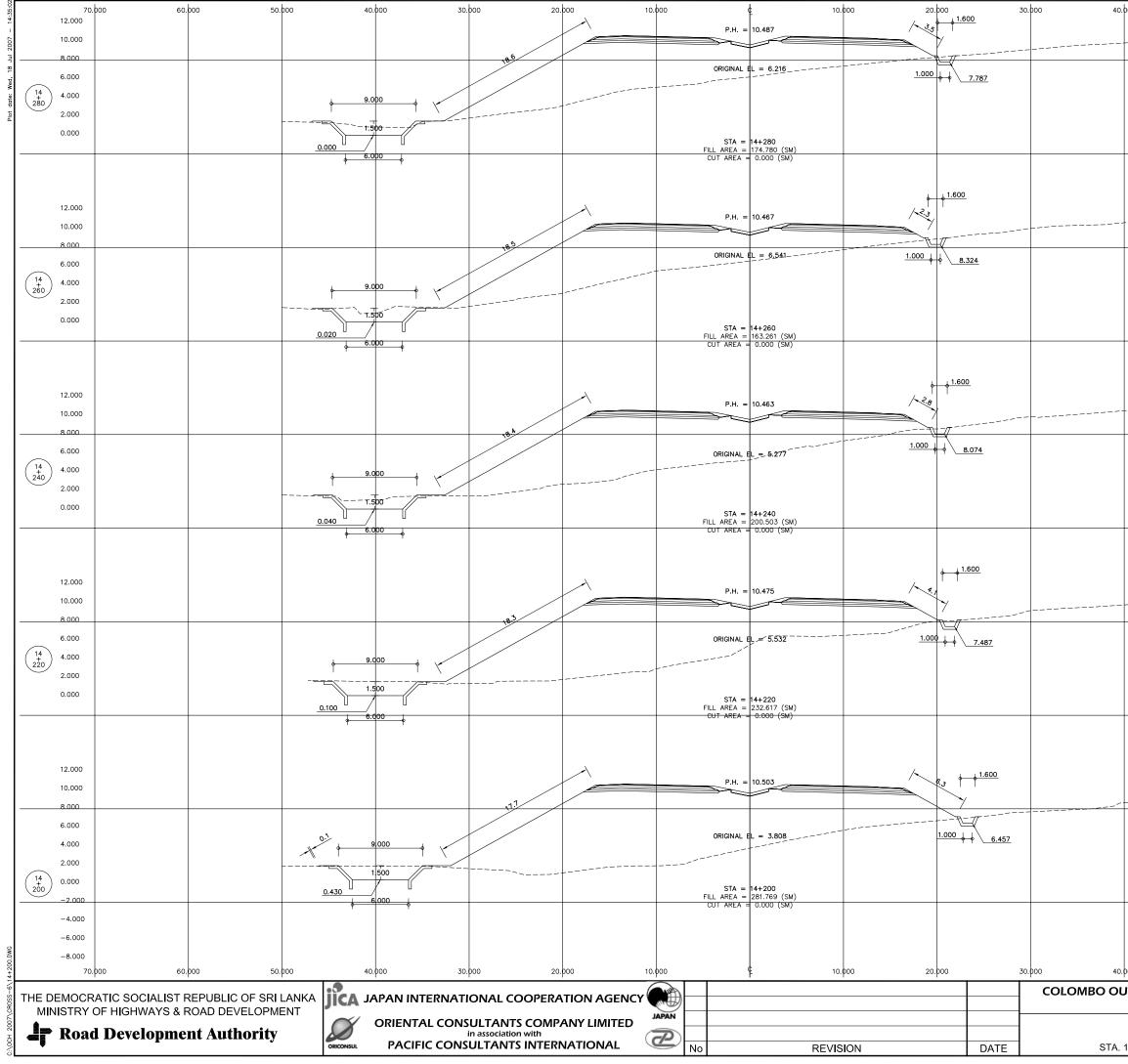
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οοι		HIGHWAY PROJE	СТ	DESIGNED BY:	_	
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	CROSS SECTIO	UN				
STA.	13+920.000 TO 14+00	0.000		DWG. NO	.   C:	S-061



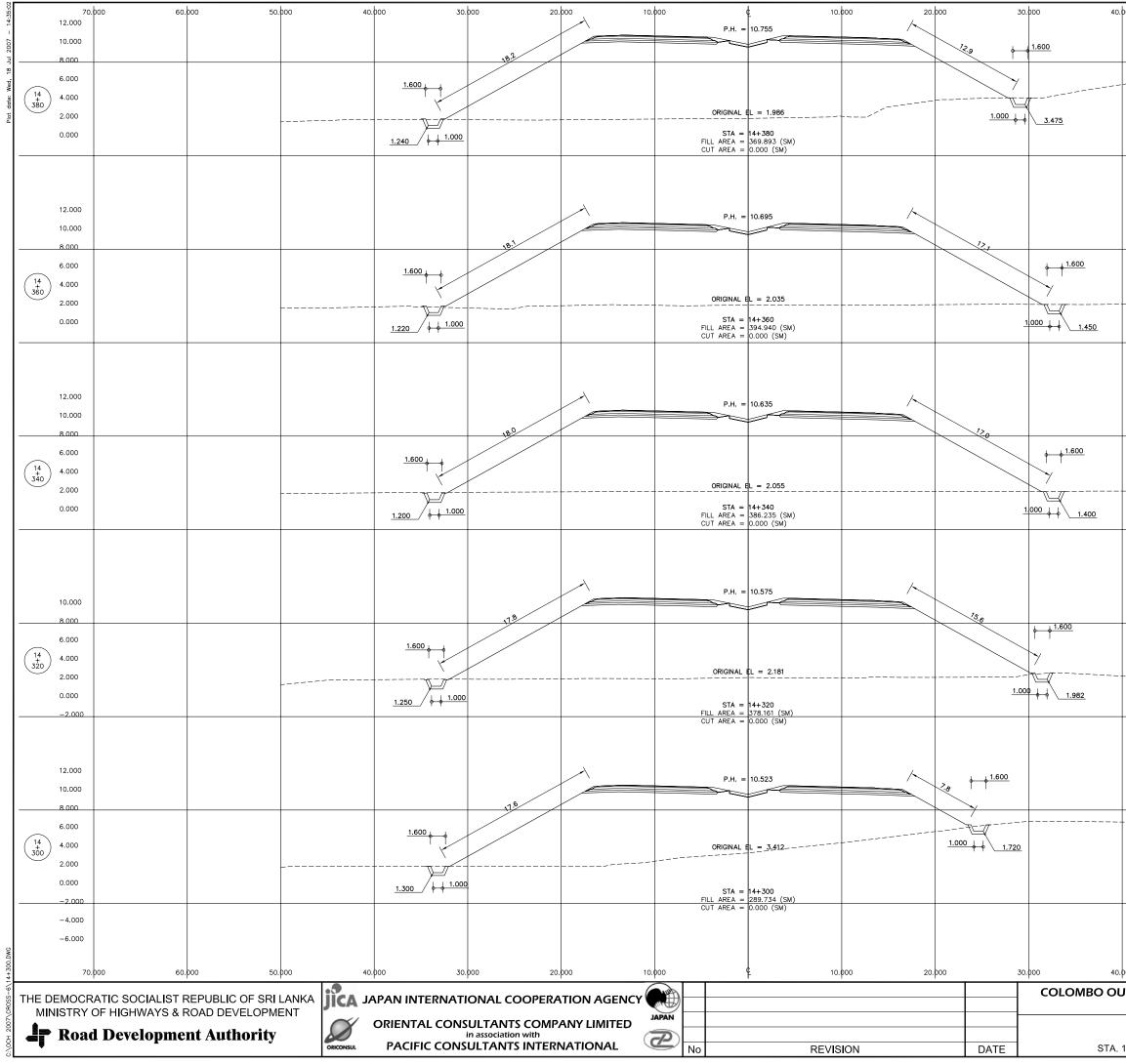
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10	000 50. <sup>,</sup>	000 60.	000	70.0		
O OUTER CIRCULAR HIGHWAY PROJEC				DESIGNED BY:	_	
	(NORTHERN SECTION			CHECKED BY:		
CROSS SECTION				APPROVED BY:	_	
0.7.1	MAIN LINE	0.000		DWG. NC	).   C	S-062
STA.	14+020.000 TO 14+08					



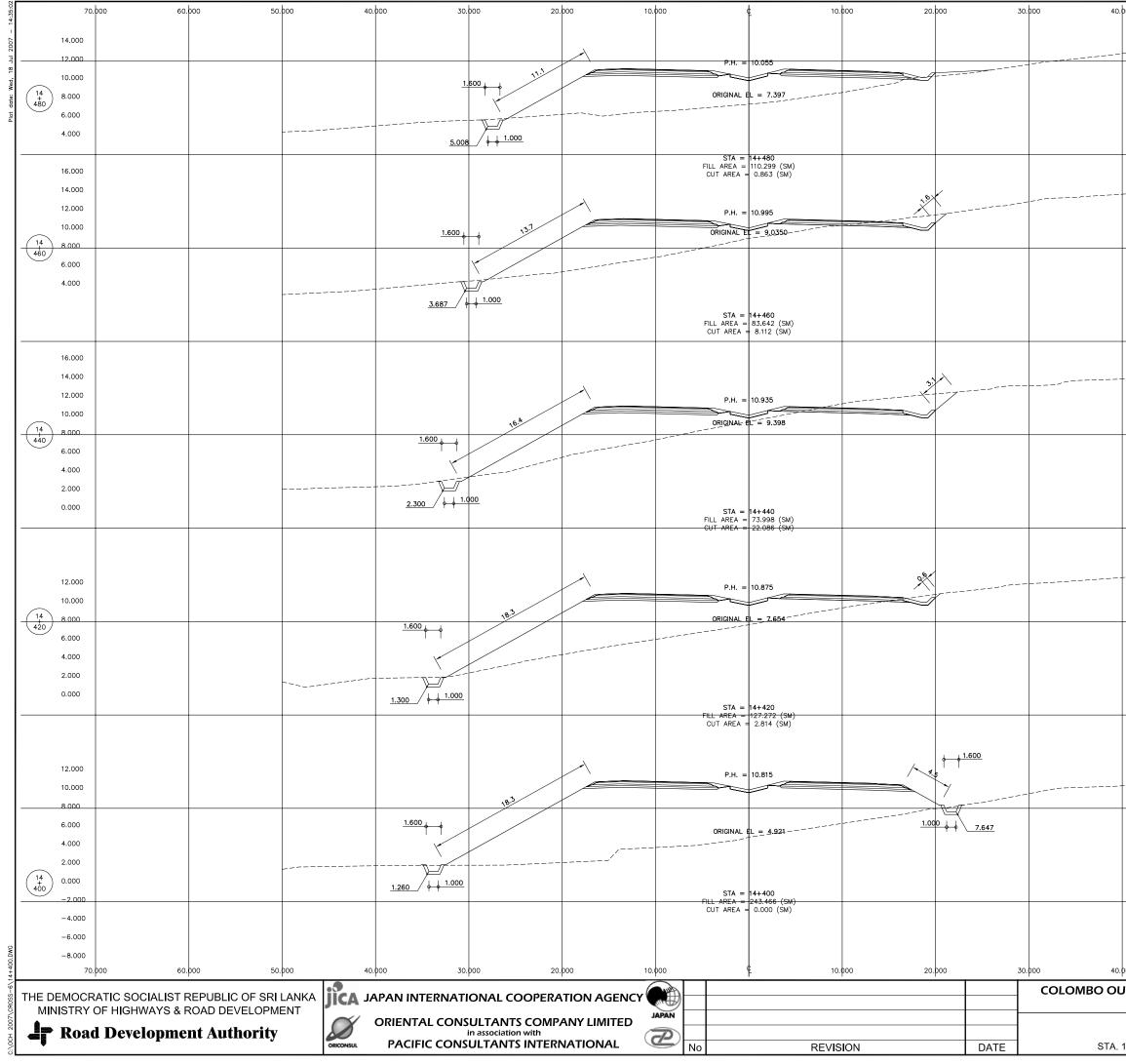
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(NORTHERN SECTION					
CROSS SECTION	ON		APPROVED BY:		
MAIN LINE	100.007		DWG. NC		CS-063
A 14+100 000 TO 14	+180.000				



	h					
40.	000 50. <sup>.</sup>	000 60. 	000	70.00	12.000	
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					6.000	
					4.000	$\begin{pmatrix} 14 \\ + \\ 240 \end{pmatrix}$
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					12 000	
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						(14)
					4.000	$\begin{pmatrix} 14 \\ + \\ 220 \end{pmatrix}$
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40.	poo 50.1	poo 60.	000	70.pc	00	
		HIGHWAY PROJE		DESIGNED BY:		
500	(NORTHERN SECTION			CHECKED BY:		
			APPROVED BY:			
	MAIN LINE				1	
MAIN LINE STA. 14+200.000 TO 14+280.000				DWG. NO.	C	S-064

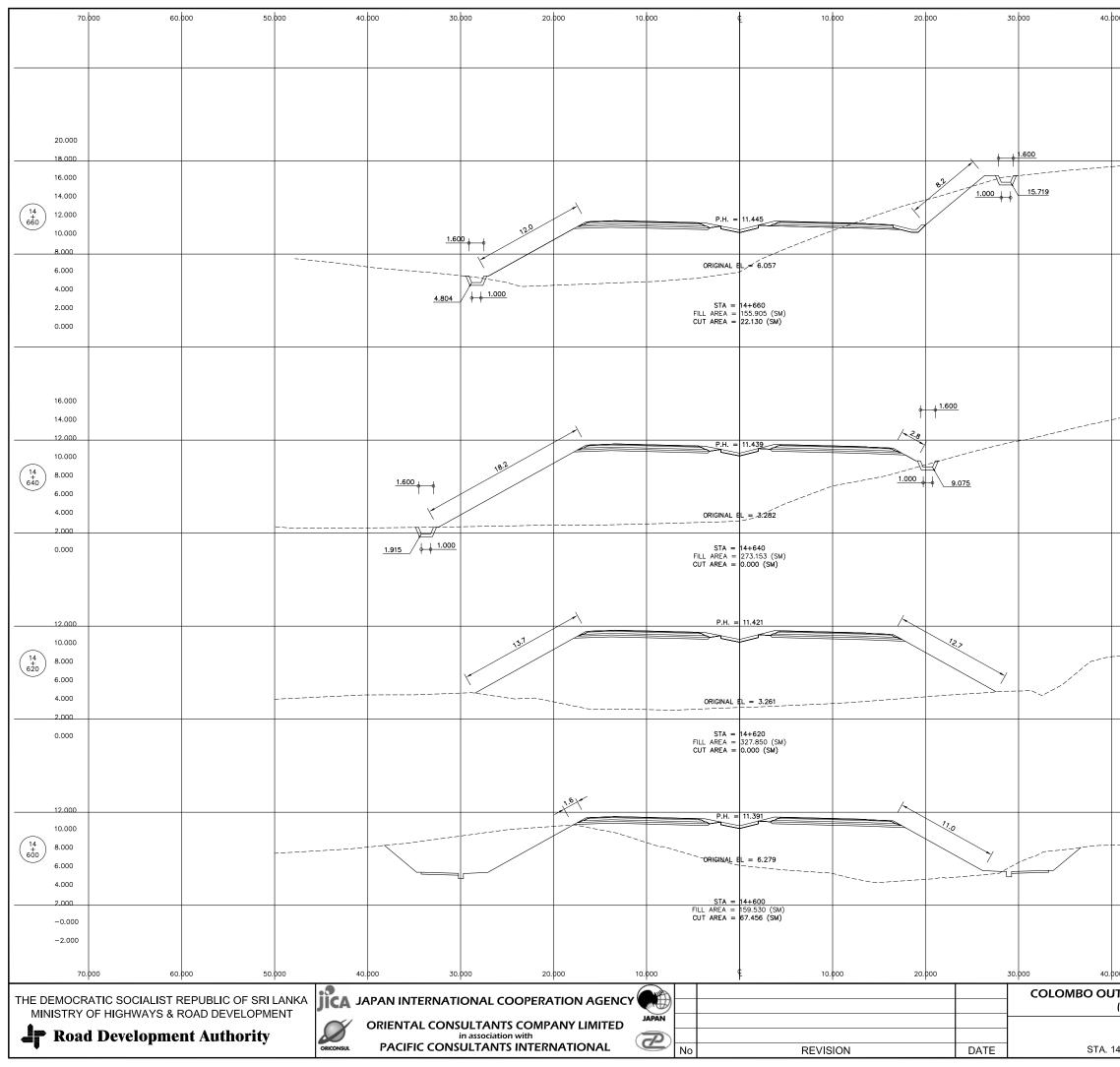


50.	60. boo	boo	70.	000	
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					14
				4.000	$\begin{pmatrix} 14 \\ + \\ 300 \end{pmatrix}$
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				-6.000	
000 50.	poo 60.	000	70.0	000	
			DESIGNED BY:		
NORTHERN SECTION			CHECKED BY:		
			APPROVED BY:		
CROSS SECTION	NC		AFFRUVED BY:		
MAIN LINE	0.000		DWG. NO	b.   c	S-065
4+300 000 TO 14+38				1 1	

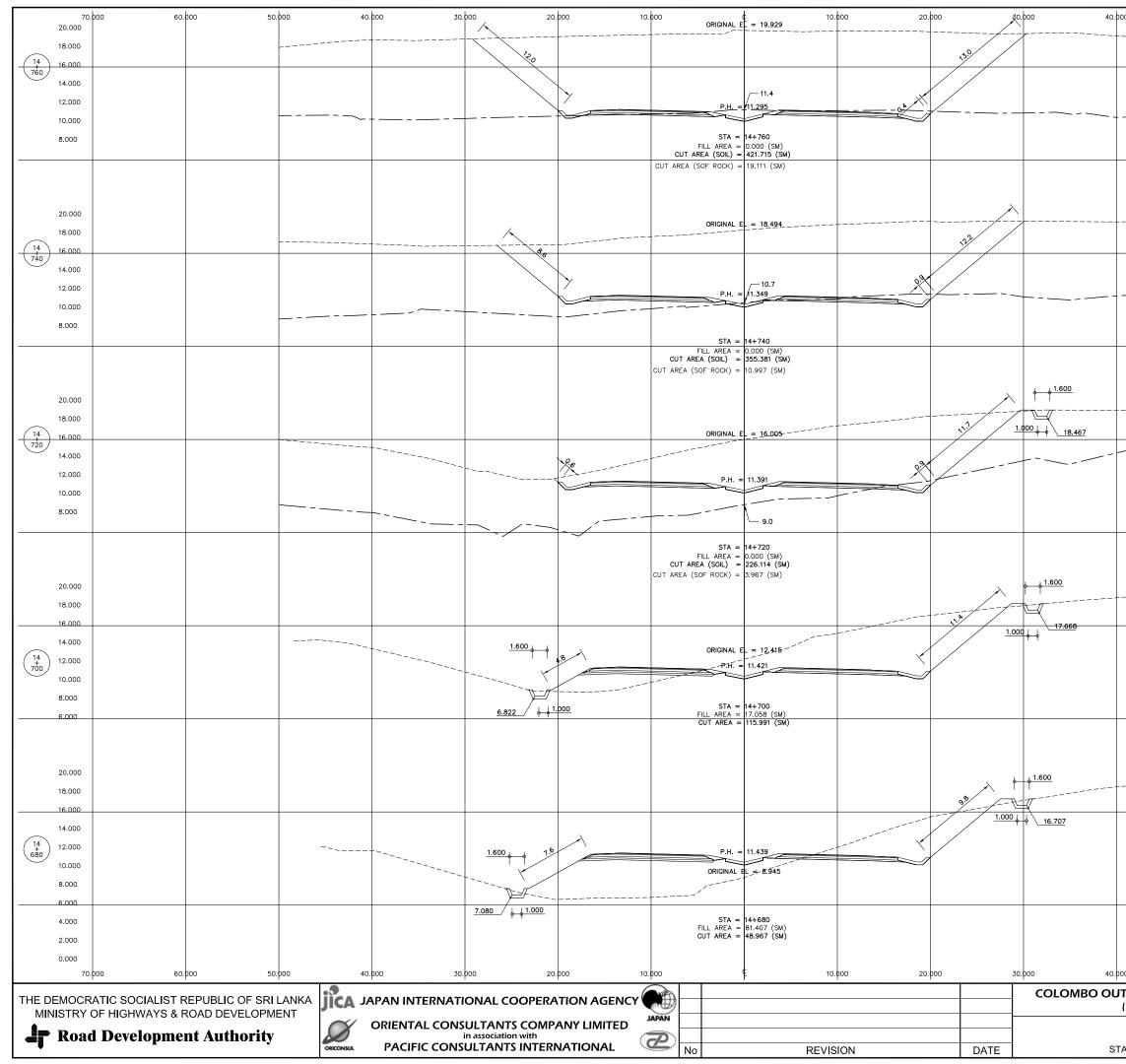


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000 50.	ооо 60.	000	70.0	00	
	HIGHWAY PROJE	CT	DESIGNED BY:	_	
(NORTHERN SECTION	ON 1)		CHECKED BY:		
CROSS SECT	ON		APPROVED BY:		
MAIN LINE					
14+400 000 TO 14+48	0 000		DWG. NC	).	CS-066

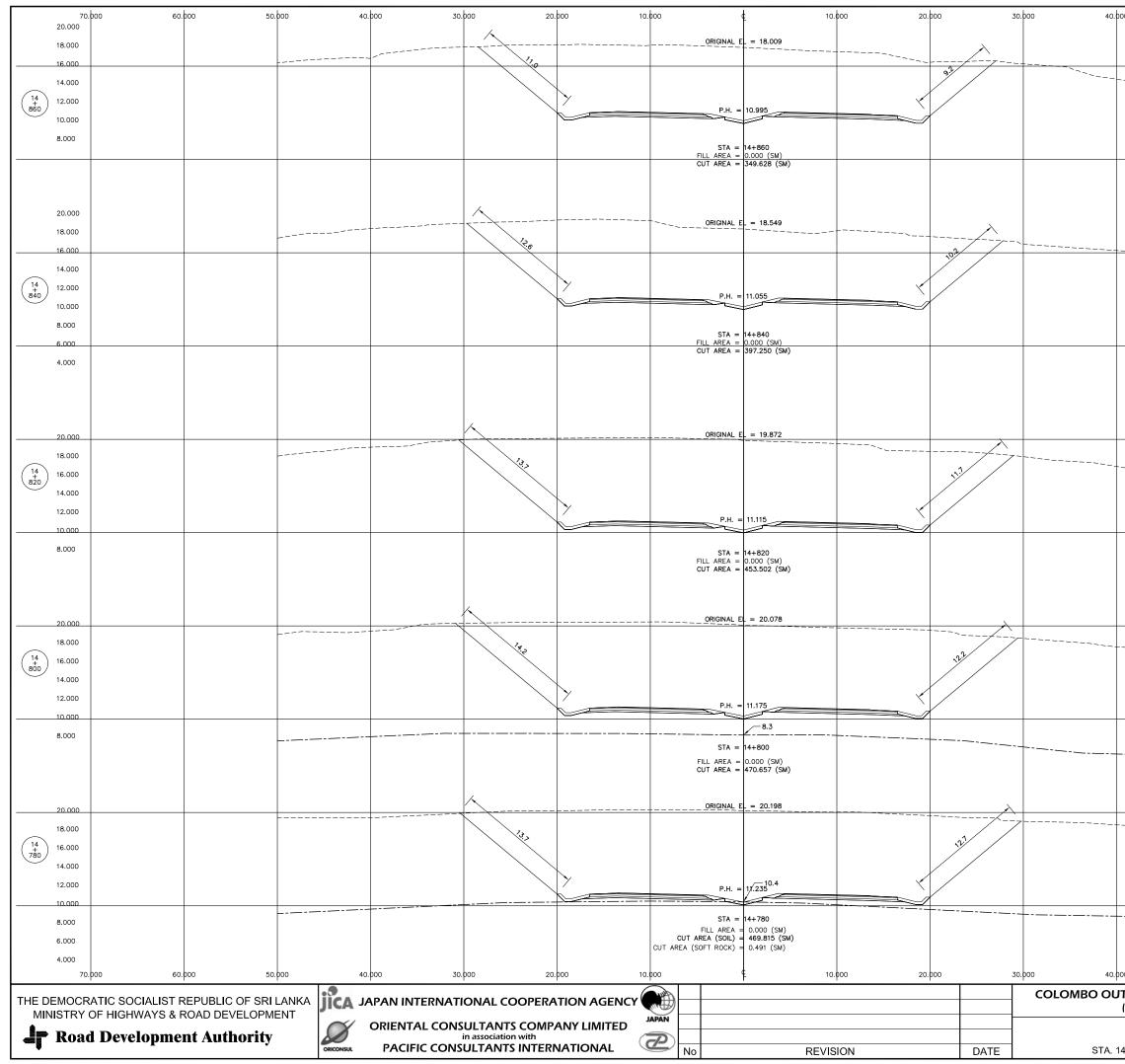
70.	.boo 60.boo	50.boo	40.b0	00 30.	boo 20.'	Ьоо	10.000	¢	10.000	20.000	30.boo	40.000	50.bc	00 60.b00	70.boo	00
14 580 12.000							P	IAL E = 12.748 H. = 11.349								12.000 (14 580)
10.000																10.000 8.000
6.000							FILL ARI CUT ARI	A = 14+580 A = 0.000 (SM) A = 53.998 (SM)								6.000
4.000																4.000
16.000																16.000
14.000				~												14.000
14 560 10.000							P	H. = 11.295								12.000 (14 + 560 10.000
8.000							S.	A = 14+560								8.000
4.000							FILL ARI CUT AR	$\begin{array}{rcl} A &=& 14+560 \\ \hline A &=& 0.000 \ (SM) \\ EA &=& 171.619 \ (SM) \end{array}$								4.000
2.000																2.000 0.000
							ORIGI	IAL E. = 14.455		7	7					
12.000							P	H. = 11.235								12.000
10.000 14 540 8.000 0.000								$\rightarrow$								10.000 8.000 14 540
<u> </u>							S FILL ARI CUT ARI	$\begin{array}{rcl} A &=& 14+540 \\ \hline A &=& 0.000 \ (SM) \\ A &=& 159.681 \ (SM) \end{array}$								<u>6.000</u> 4.000
																16.000
14.000						×.	ORIGI	IAL E_ = <u>12.500</u> H. = <u>11.175</u>						-		14.000
14 520 10.000				+=			Ρ	H. = 11.175								12.000 (14 520) 10.000
8.000																8.000
							S FILL ARI CUT ARI	A = 14+520 A = 0.000 (SM) A = 80.682 (SM)								
16.000																16.000
14.000					<u>1.600</u>		F	.H. = 11.115								14.000
10.000 14 500 0.000					۲ لیک			NAL EL = 8.845								10.000 8.000 14 500
6.000					<u>8.470</u>	1.000										6.000
4.000							S FILL ARE CUT ARE	$\begin{array}{rcl} A &=& 14+500 \\ A &=& 67.642 \ (SM) \\ A &=& 0.000 \ (SM) \end{array}$								4.000
-0.000 -2.000																-0.000 -2.000
70.	.000 60.000	50.000	40.00	00 30.1	000 20.	000	10.000	¢_	10.000	20.000	30.000	40.poo	50.00	00 60.000	70.000	00
THE DEMOCR	ATIC SOCIALIST REP	UBLIC OF SRI LANK	1						1							
MINISTRY	OF HIGHWAYS & ROA	D DEVELOPMENT					JAPAN						ORTHERN SECTIO		APPROVED BY:	
	d Development .													'IN		



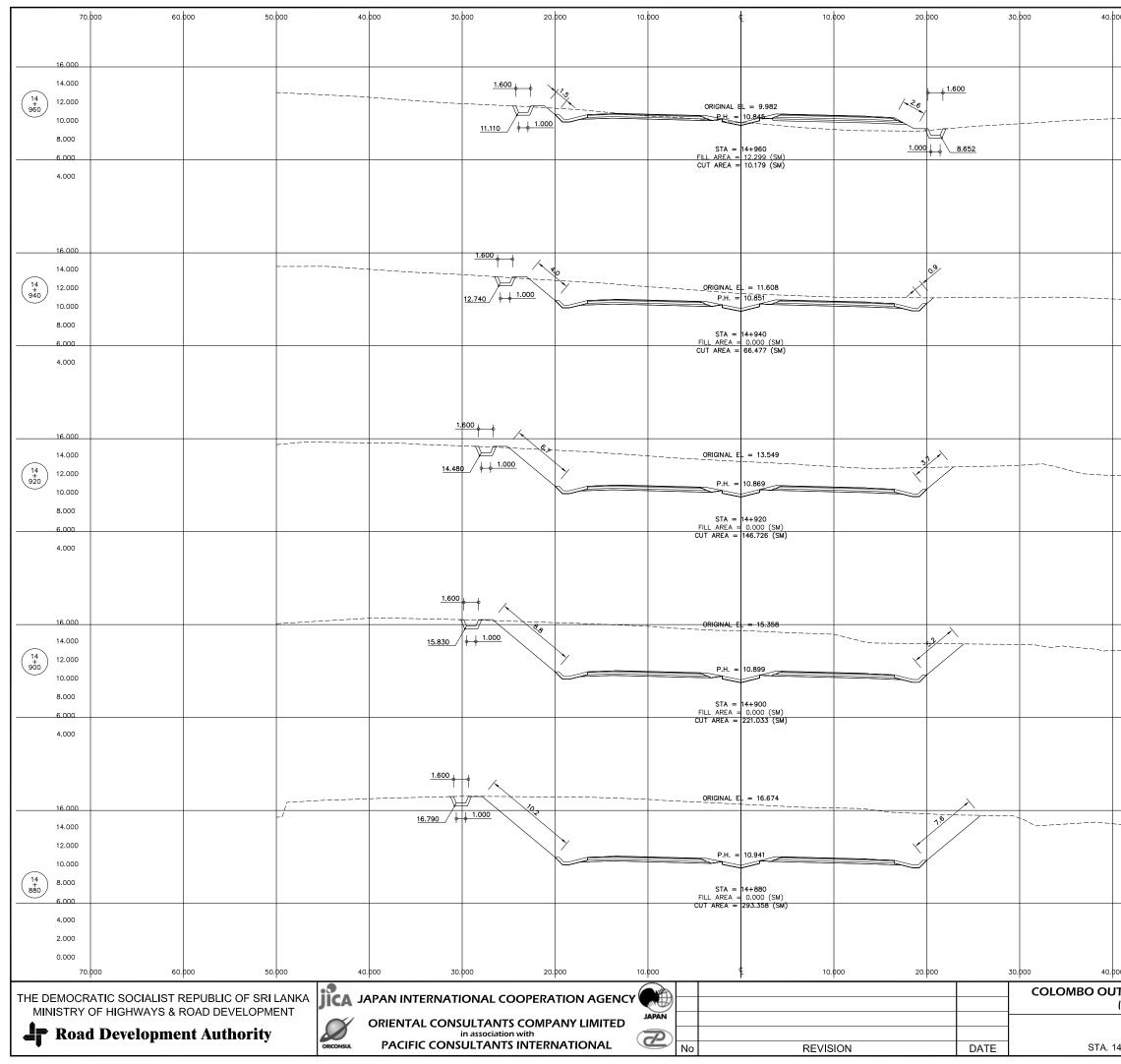
00 50.	poo 60.	000	70.0	000		
				20	0.000	
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TER CIRCULAR	HIGHWAY PROJI	ЕСТ	DESIGNED BY:	$\square$		
(NORTHERN SECTI			CHECKED BY: APPROVED BY:	+		
CROSS SECTI MAIN LINE	UN			$\uparrow$	~	2.000
4+600 000 TO 14+66	0.000		DWG. NC	ハ	CS	S-068



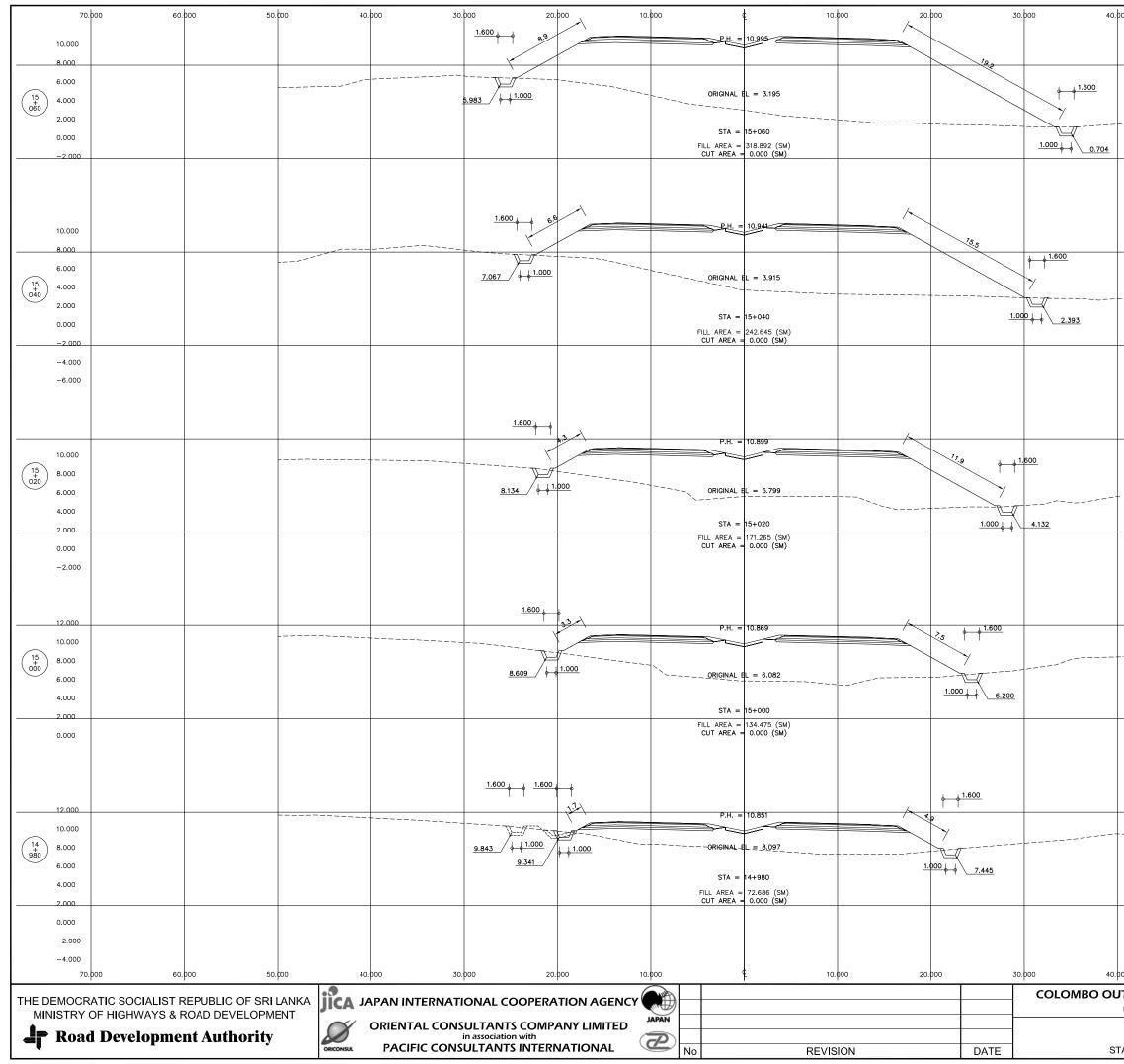
00	50.	60.	000	70.c	00	
					20.000	
	SOIL				18.000	$\bigcirc$
	3012				16.000	(14 (760)
					14.000	
	SOFT ROCK				12.000	
	1				10.000	
					8.000	
					0.000	
					20.000	
	SOIL				18.000	$\frown$
					16.000	$-\left(\begin{array}{c}14\\740\end{array}\right)$
	-SOFT ROCK				14.000	
					12.000	
					10.000	
					8.000	
					20.000	
	SOIL				18.000	$\bigcirc$
	s	FT ROCK			16.000	$\begin{pmatrix} 14\\ 720 \end{pmatrix}$
<u> </u>	<u> </u>				14.000	$\smile$
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		HIGHWAY PROJE	СТ	DESIGNED BY:		
	HERN SECTI			CHECKED BY:		
CRO	DSS SECTI	NC		APPROVED BY:		
A 14+6	MAIN LINE 380.000 TO 14	+760.000		DWG. NC	).   C	S-069



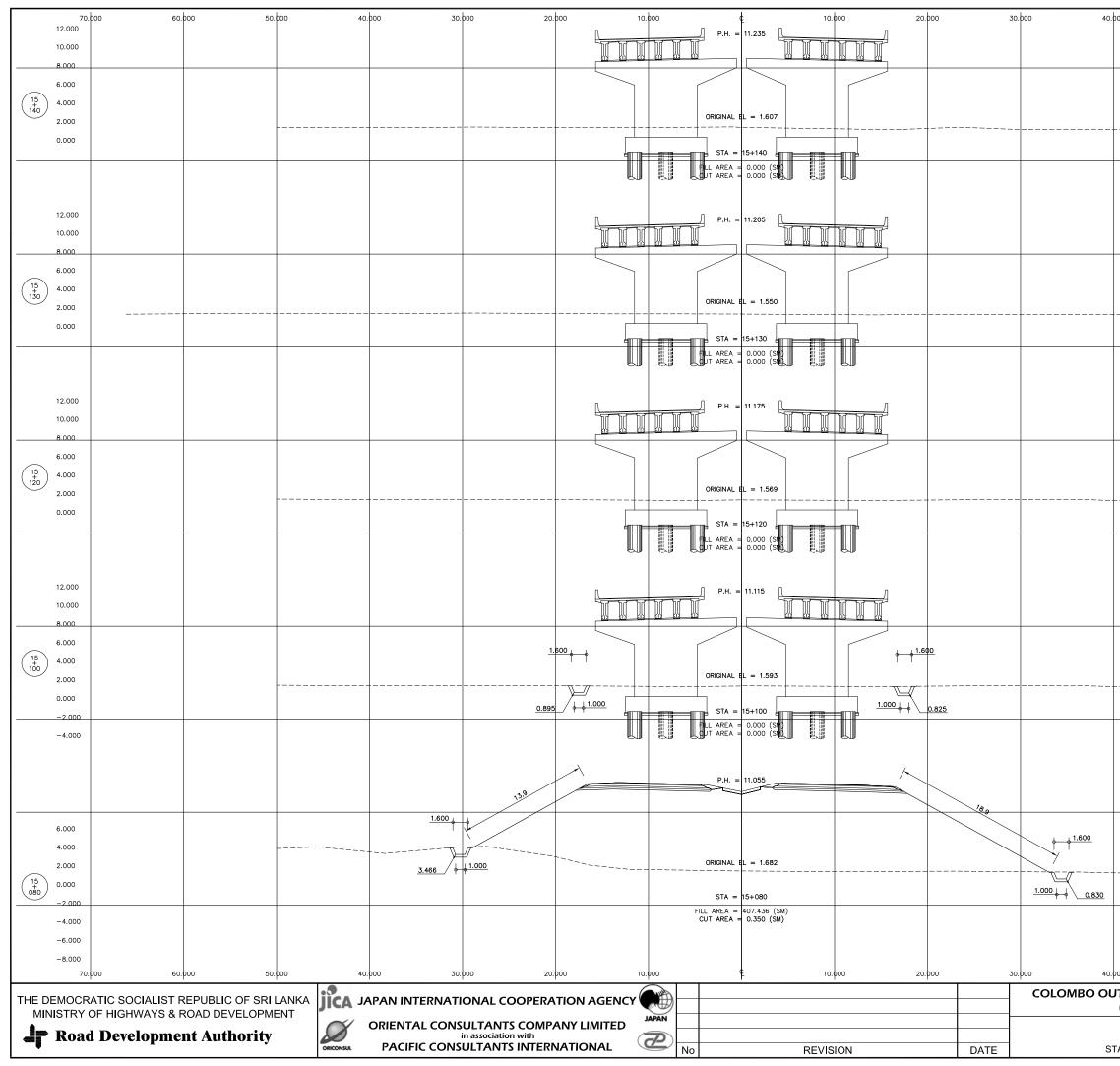
00	50.poo	60.poo	70.	000		
				2	0.000	
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				1	6.000	$\begin{pmatrix} 14\\ +\\ 820 \end{pmatrix}$
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SOI				2	0.000	
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				1	4.000	$\smile$
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			 	1	0.000	
	ROCK				8.000	
_	SOIL			_		
				2	0.000	
/				1	8.000	
				1	6.000	(14 + 780)
						780
				1	4.000	
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	TROCK			1	0.000	
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00	E0 000				7.000	
00	50.poo	60.þ00	 70.(	μυυ		
TER CIRC	ULAR HIGHW	VAY PROJECT	DESIGNED BY:			
(NORTHER	N SECTION 1)		CHECKED BY:			
CROSS	SECTION		APPROVED BY:			
MA	IN LINE		DWG. NO		~	S-070
	O 14+860.000		DWG.NC	<i>.</i>		5-070



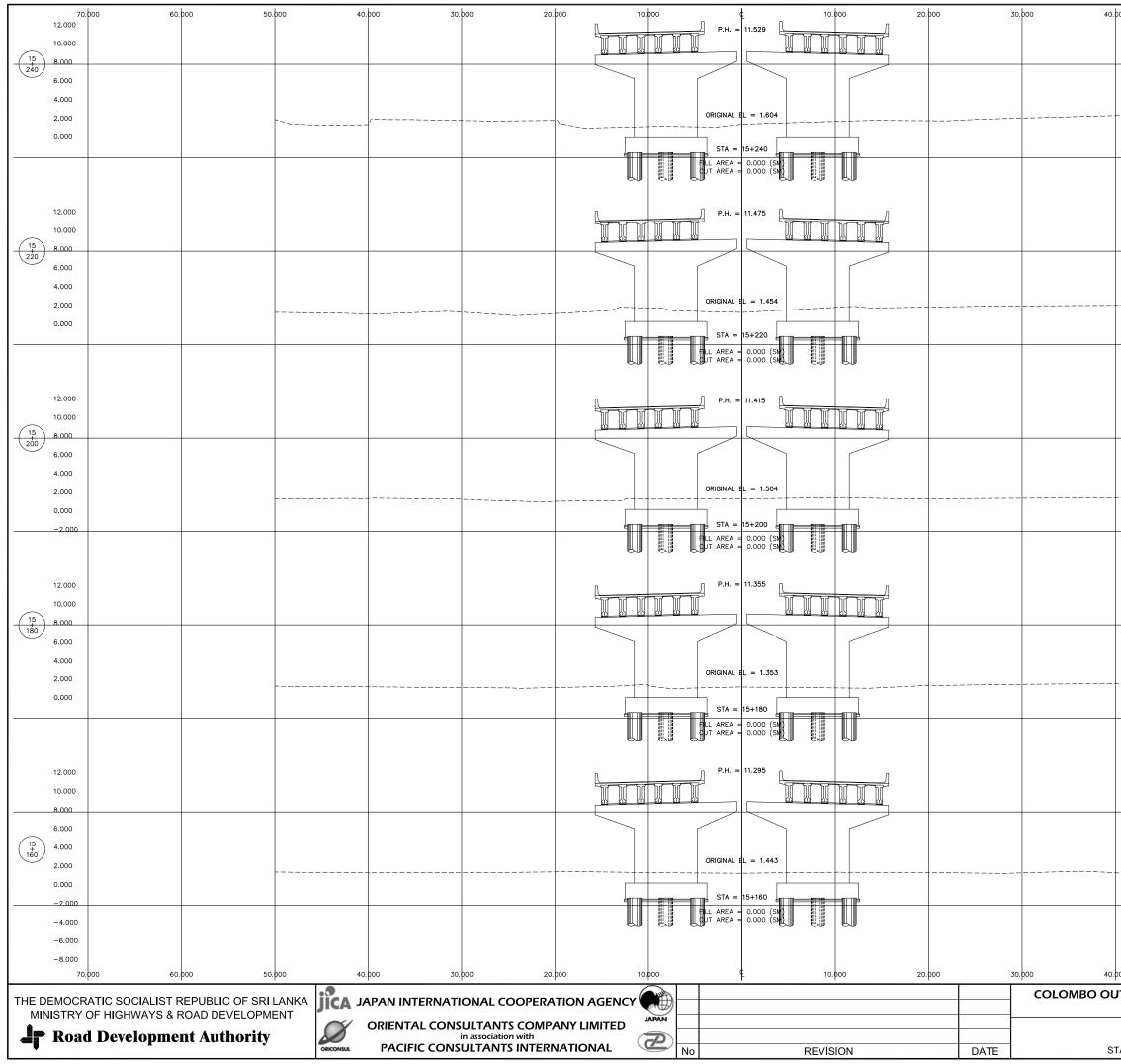
50.	boo 60.	hoo	70.¢	00	
			, 0.0		
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				12.000	(14 + 920)
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TER CIRCULAR I	HIGHWAY PROJE	ст	DESIGNED BY:		
(NORTHERN SECTION	ON 1)		CHECKED BY:		
CROSS SECTION			APPROVED BY:		
MAIN LINE			DWG. NO		CS-071
4+880.000 TO 14+96	0.000		D.00.100	·   ·	



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				4.000 (15 + 040
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	CULAR HIGHW RN SECTION 1)	AY PROJECT	DESIGNED BY: CHECKED BY:	
	S SECTION		APPROVED BY:	
MA	AIN LINE		DWG. NO.	CS-072
A. 14+980.	000 TO 15+060.000			00012



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יר		HIGHWAY PROJI	ст	DESIGNED BY:		
				CHECKED BY:		
(NORTHERN SECTION 1)						
	CROSS SECT	ON		APPROVED BY:		
	MAIN LINE					0.70
S	TA. 15+080.000 TO 15	+140.000		DWG. NO	,	S-073

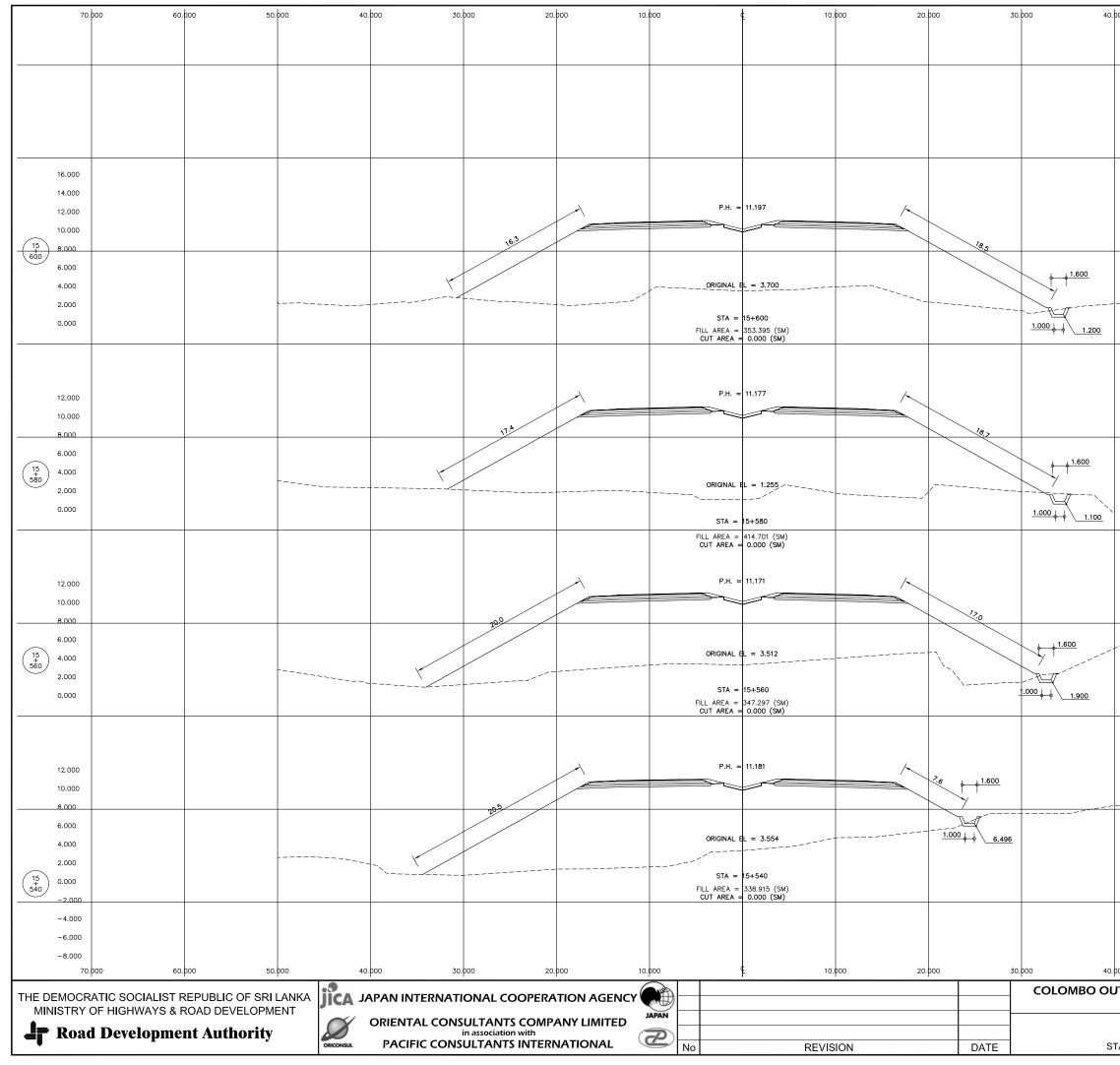


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			DESIGNED BY:	
OUTER CIRCULAI (NORTHERN SEC	ECT	CHECKED BY:		
CROSS SEC		APPROVED BY:		
MAIN LINE			DWG. NO	. CS-074
STA. 15+160.000 TO			Divig. NO	. 03-074

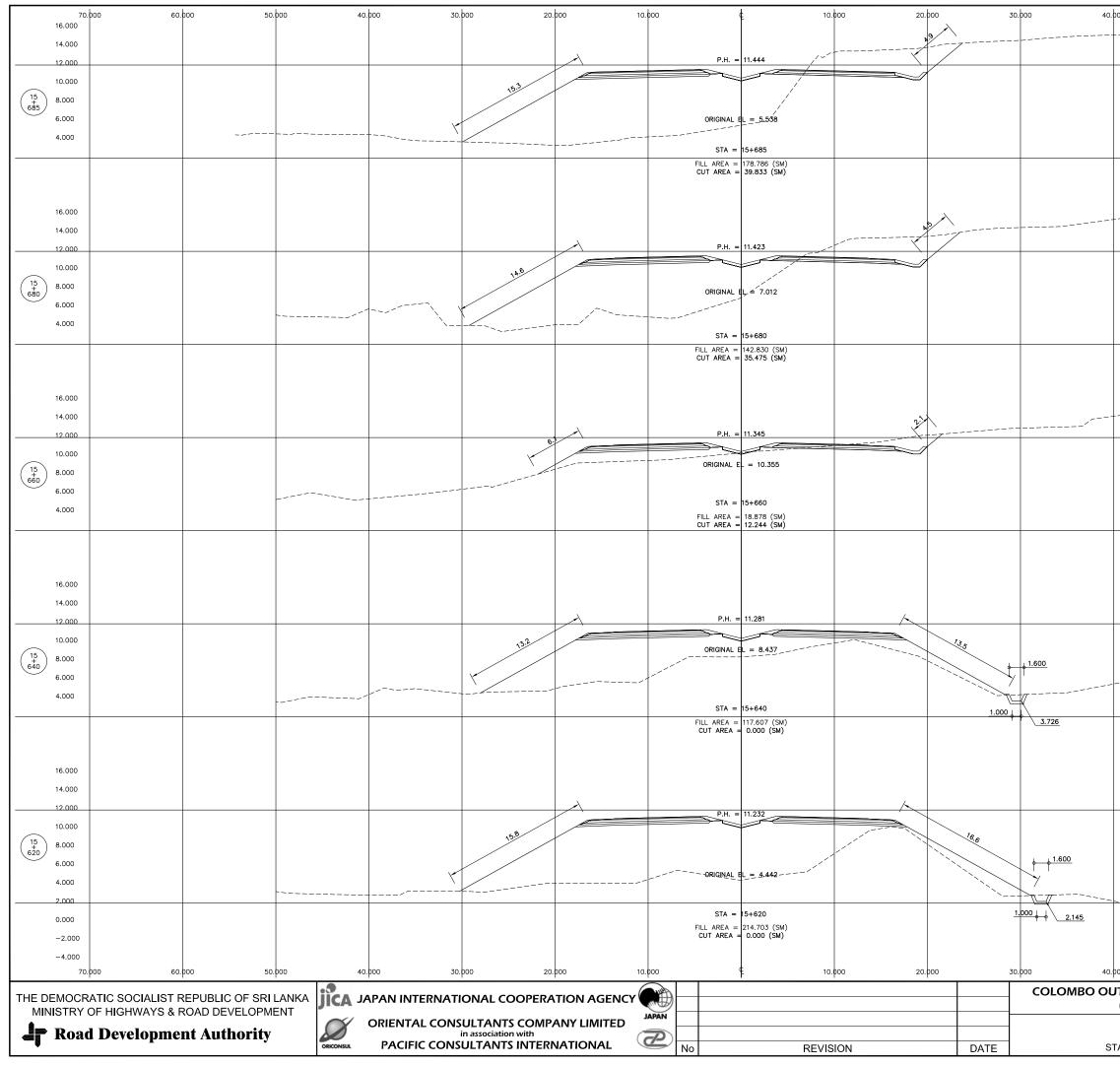
70.000	60.boo 50.boo	40.000 30	.boo 20.boo 10.boo	¢ 10	.000 20.000	30.000 40.000	50.000 60.000	70.000
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15 + 340 8.000								8.000 (15) + 340
6.000								6.000
4.000				ORIGINAL EL = 2.371				4.000
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				EL AREA = 0.000 (ST				
12.000								12.000
10.000 (15 + 8.000								10.000
(15 + 8.000 - 6.000								8.000 (15 320 6.000
4.000				ORIGINAL EL = 2.294				4.000
0.000				STA = 15+320				0.000
				CUT AREA = 0.000 (SM)				
12.000				P.H. = 11.619	Л			12.000
10.000								10.000
15 300 6.000								8.000 (15 300 6.000
4.000								4.000
0.000				ORIGINAL EL = 2.134 STA = 15+300	+-+			0.000
0.000				CJT AREA = 0.000 (SM)				0.000
12.000				р.н. = 11.601	Π			12.000
10.000					N N N			10.000
15 280 6.000								8.000 (15 280 6.000
4.000								4.000
2.000				ORIGINAL EL = 1.747	++-++++			2.000
0.000				OUT AREA = 0.000 (SM)				0.000
12.000				Р.Н. = 11.571	п			12.000
10.000								10.000
(15 260) 6.000								8.000 (15 260 6.000
4.000								4.000
2.000			<u> </u>	ORIGINAL EL = 1.384	+			2.000
0.000				STA = 15+260	╪╓╔┙			0.000
-4.000				ALL AREA = 0.000 (SN)				-4.000
	60.000 50.000		.boo 20.boo 10.boo	•	ι.φοο 20.þoo	30.þ00 40.þ00 <b>COLOMBO OUTI</b>	٥٥.٥٥٥ ٥٥.٥٥٥ ER CIRCULAR HIGHWAY PROJECT	70.000 DESIGNED BY:
MINISTRY OF HIGH	CIALIST REPUBLIC OF SRI LANKA WAYS & ROAD DEVELOPMENT		IONAL COOPERATION AGENCY			۸) ۱	IORTHERN SECTION 1) CROSS SECTION	CHECKED BY: APPROVED BY:
<b>Road Deve</b>	lopment Authority				SION DA		MAIN LINE 15+260.000 TO 15+340.000	DWG. NO. CS-075
L								1

70.þoo	60.þoo 50.þoo	40. <b>þ</b> 00	30.þoo	20.boo 10.boo	¢	0.000 20.000	30.þoo	40.þoo	50.þoo	60.000	70.000	
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6.000											6.000	
15 440 440											4.000 (	15 + 440
2.000					ORIGINAL EL = 2.639						2.000	440
0.000											0.000	
0.000					STA = 15+440						0.000	
					FLL AREA = 0.000 (SM)							
					COT AILEA - 0.000 (3M)							
					P.H. = 11.475							
12.000				Γ		Л					12.000	
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8.000											8.000	
6.000											6.000	
(15 420) 4.000											4.000	15 + 420
420					ORIGINAL EL = 1.192						2.000	420
0.000						-+-+					0.000	
0.000					STA = 15+420						0.000	
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6.000											6.000	
												15 + 400
(15 + 400) 2.000					ORIGINAL EL = 1.136						2.000	400
						-+-+		/	~			
0.000					STA = 15+400						0.000	
-2.000					FILL AREA = 0.000 (SN) CJT AREA = 0.000 (SN)						-2.000	
-4.000					UPT AREA = 0.000 (SN						-4.000	
12.000					Р.Н. = 11.571						12.000	
10.000											10.000	
(15 + 8.000											8.000	15
(15 380) 6.000											6.000	15 380
					ORIGINAL EL = 3.061							
4.000						_					4.000	
2.000					STA = 15+380						2.000	
0.000					FILL AREA = 0.000 (SM)						0.000	
					$= 0.000 (S_{\text{M}})$							
12.000				<u> </u>	P.H. = 11.601	Л					12.000	
10.000				הנר הנר הנר הנר							10.000	
15 + 360 8.000											8.000	15 + 360
6.000											6.000	360
4.000											4.000	
2.000					ORIGINAL EL = 2.693						2.000	
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0.000				╡╓╶╖╾╪╾╦╤╦═╴	FLL AREA = 0.000 (SN)						0.000	
-2.000					UUI AREA = 0.000 (SM						-2.000	
-4.000											-4.000	
70.þoo	60.þoo 50.þoo	40.000	30.þoo	20.þoo 10.þoo	Ϋ́	ο.φοο 20.φοο		40.þoo	50.þoo	60.poo	70.þoo	
THE DEMOCRATIC SOCIAL IS	ST REPUBLIC OF SRI LANKA			OOPERATION AGENCY			со	LOMBO OUTER CIR		ROJECT	DESIGNED BY:	
MINISTRY OF HIGHWAYS	& ROAD DEVELOPMENT			IADAN					RN SECTION 1)		CHECKED BY: APPROVED BY:	
Road Developm	nent Authority		IENTAL CONSULTANT in associatio	S COMPANY LIMITED					S SECTION AIN LINE			
		ORICONSUL	ACIFIC CONSULTANT		No REV	SION	DATE	STA. 15+360	.000 TO 15+440.000		DWG. NO. CS-	J76
												-

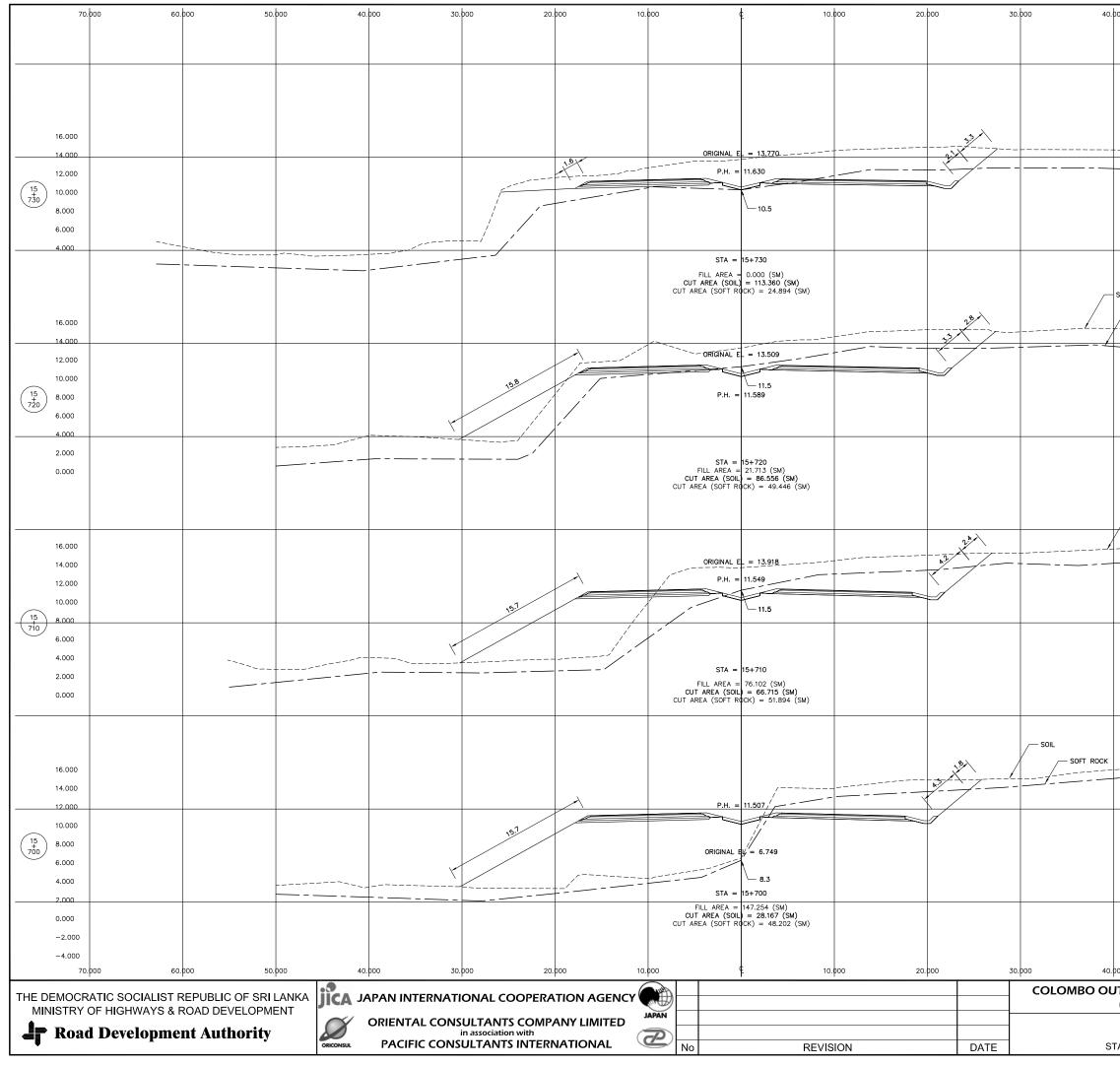
	poo 60.poo 50.	boo 40.boo	30.000	20.þoo 10.þoo	0 (	10.000	20.000	30.000 4	ю.роо 50.роо	60.000	70.000	
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8.000							× '					8.000
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8.000												8.000
6.000							+ 1.600 					6.000
(15 + 500) 4.000												4.000
2.000					ORIGINAL E	L = 2.052	2.969					2.000
0.000							2.969					0.000
					STA =							
					ULL AREA =	0.000 (SM)						
12.000				n	Л Р.Н. =	11.295						12.000
10.000												10.000
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15 + 480 480												4.000 (15 + 480
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0.000												0.000
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12.000				n	Л Р.Н. =	11 355 0 0						12.000
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15 + 4.000 460												4.000 (15 + 460
460 2.000					ORIGINAL E	L = 1.578						2.000
0.000												0.000
						15+460						
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12.000				n	P.H. =	11 400 П						12.000
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2.000					ORIGINAL E	L = 2.500						2.000
15 445 0.000					<u> </u>			1				0.000 (15 + 445
					STA =	15+445						-2.000
-4.000					FILL AREA =	0.000 (SN)					-	-4.000
-6.000											-	-6.000
-8.000											-	-8.000
		poo 40.poo	1	20.000 10.000		10.000	20.000	30.000 4	10.poo 50.poo	60.000	70.000	
THE DEMOCR	ATIC SOCIALIST REPUBLIC OF SRI							COLOMBO C	OUTER CIRCULAR HIGHWAY	PROJECT	DESIGNED BY:	
MINISTRY	OF HIGHWAYS & ROAD DEVELOPME	ENT I		140				_	(NORTHERN SECTION 1)		CHECKED BY: APPROVED BY:	
Road	d Development Authority		L CONSULTANTS CON in association with					-	CROSS SECTION MAIN LINE			00.077
		ORICONSUL PACIFIC	C CONSULTANTS INTE		No	REVISION	DATE		STA. 15+445.000 TO 15+520.000		DWG. NO.	CS-077



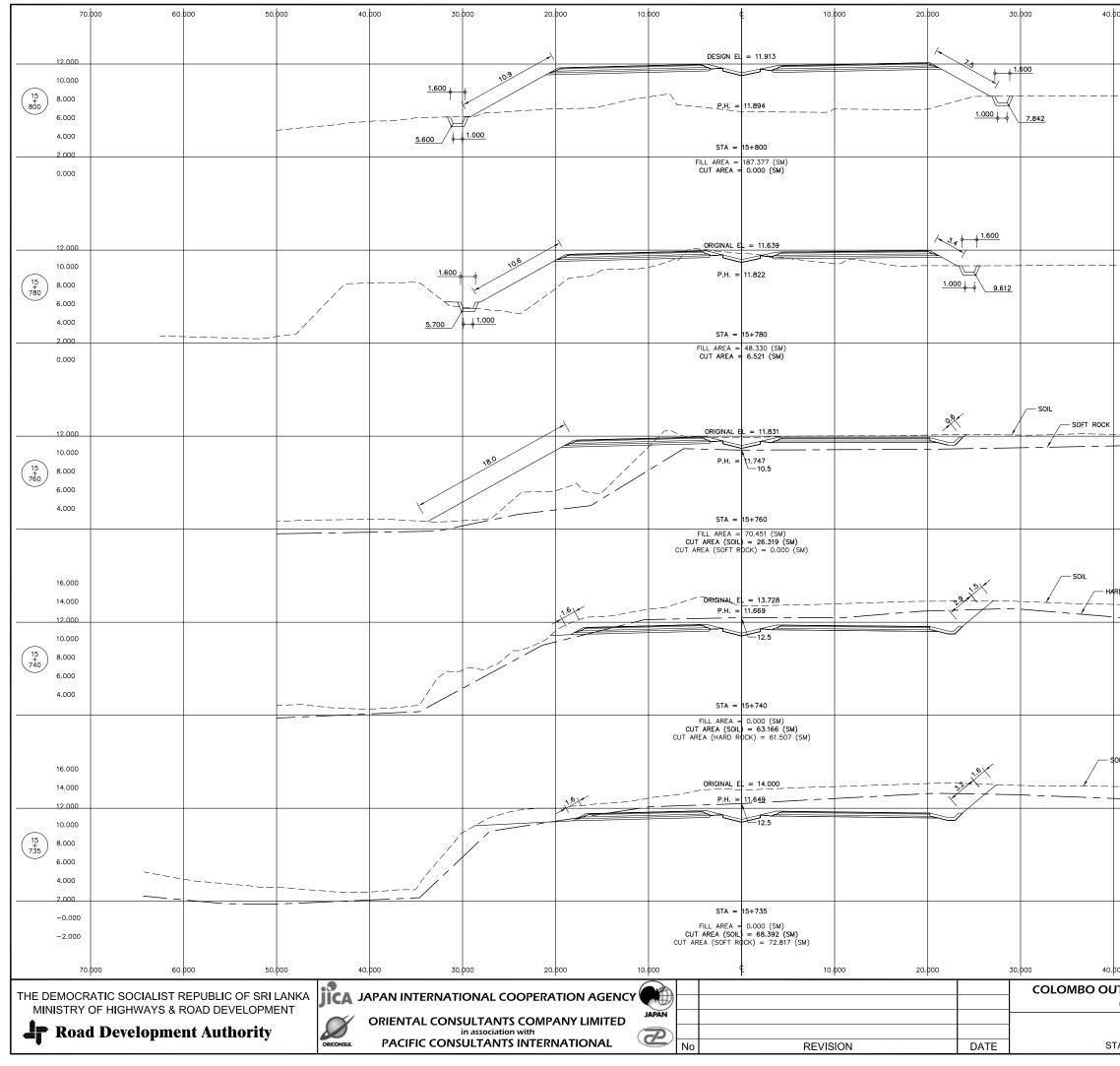
40.	poo 50.	poo 60.	000	70.	000	
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DUTER CIRCULAR HIGHWAY PROJECT (NORTHERN SECTION 1)				CHECKED BY:		
	CROSS SECTI			APPROVED BY:		
	MAIN LINE			DWG. NO		S-078
S	TA. 15+540.000 TO 15	5+600.000			.   .	2 310



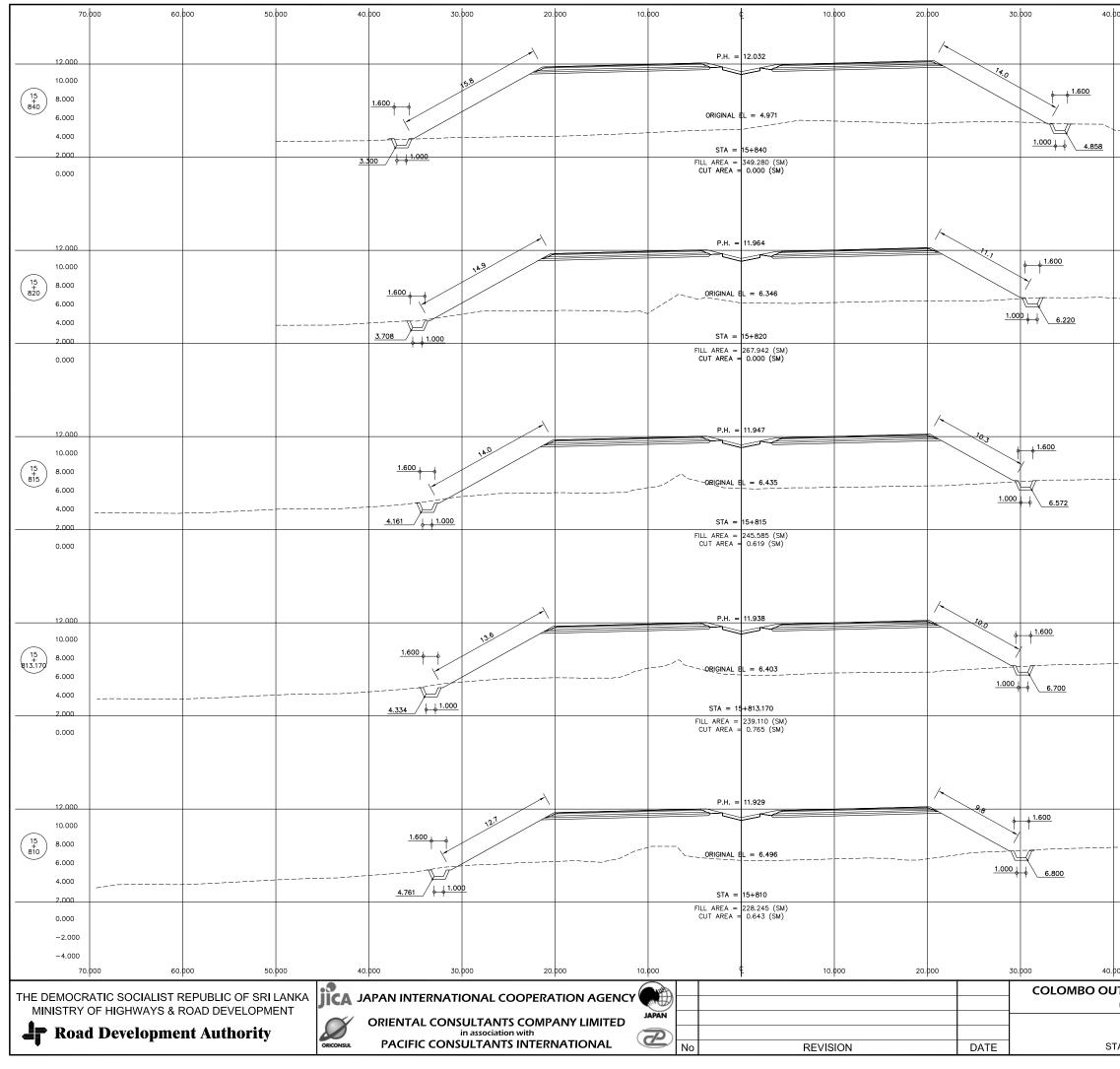
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(NORTHERN SECTI	ON 1)		CHECKED BY:		
CROSS SECTI			APPROVED BY:		
MAIN LINE					
A. 15+620.000 TO 15	+685.000		DWG. NC	).   C	S-079



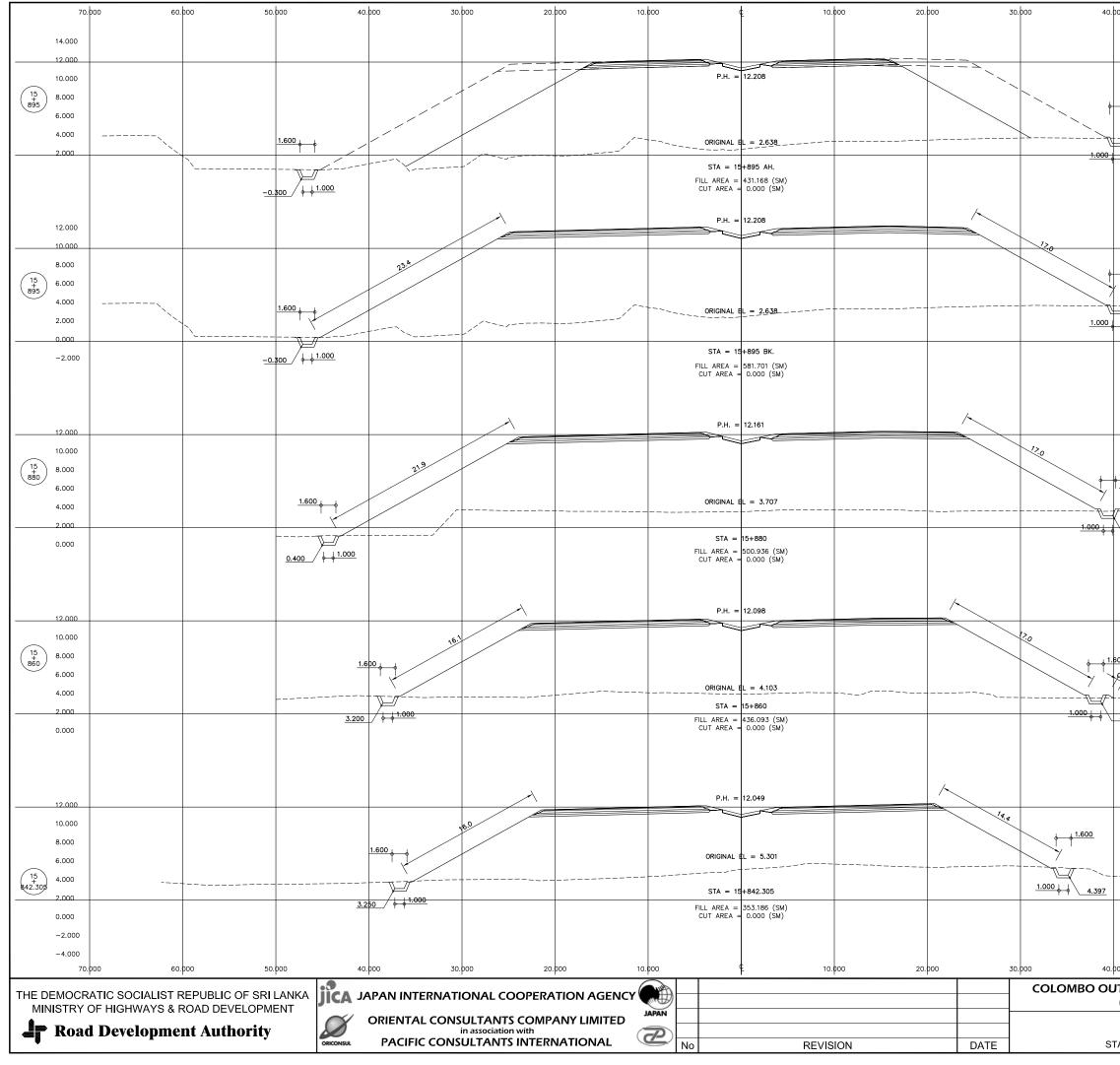
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	SOFT ROCK				16.00	0
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οι	JTER CIRCULAR		ECT	DESIGNED BY: CHECKED BY:	-+	
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S	TA. 15+700.000 TO 15	+730.000		DWG. NO	).	CS-080



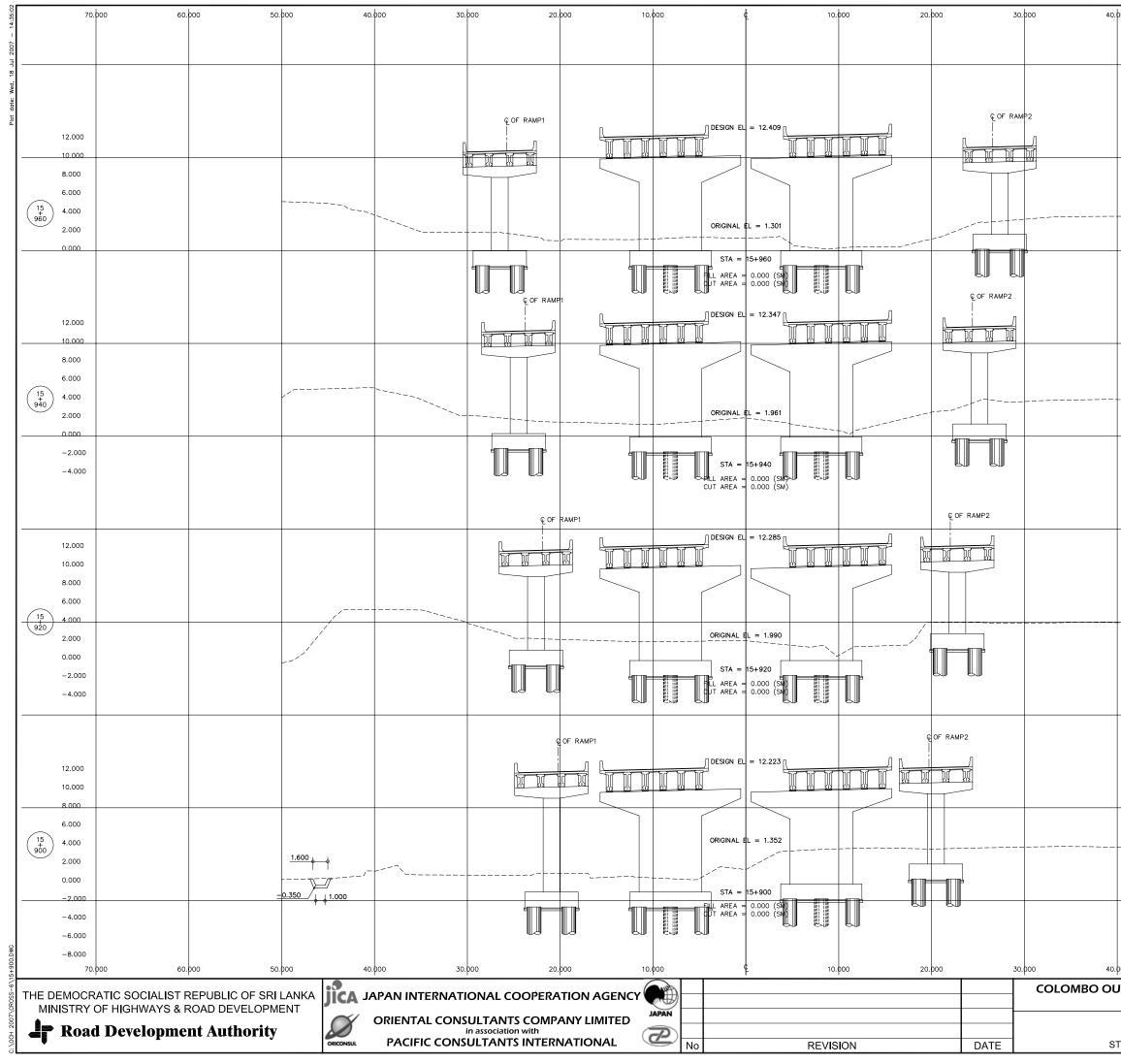
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- •	(NORTHERN SECT			CHECKED BY:		
	CROSS SECT	ION		APPROVED BY:		
S	MAIN LINE TA. 15+735.000 TO 1	5+800.000		DWG. NO	o.       (	CS-081
-					1	



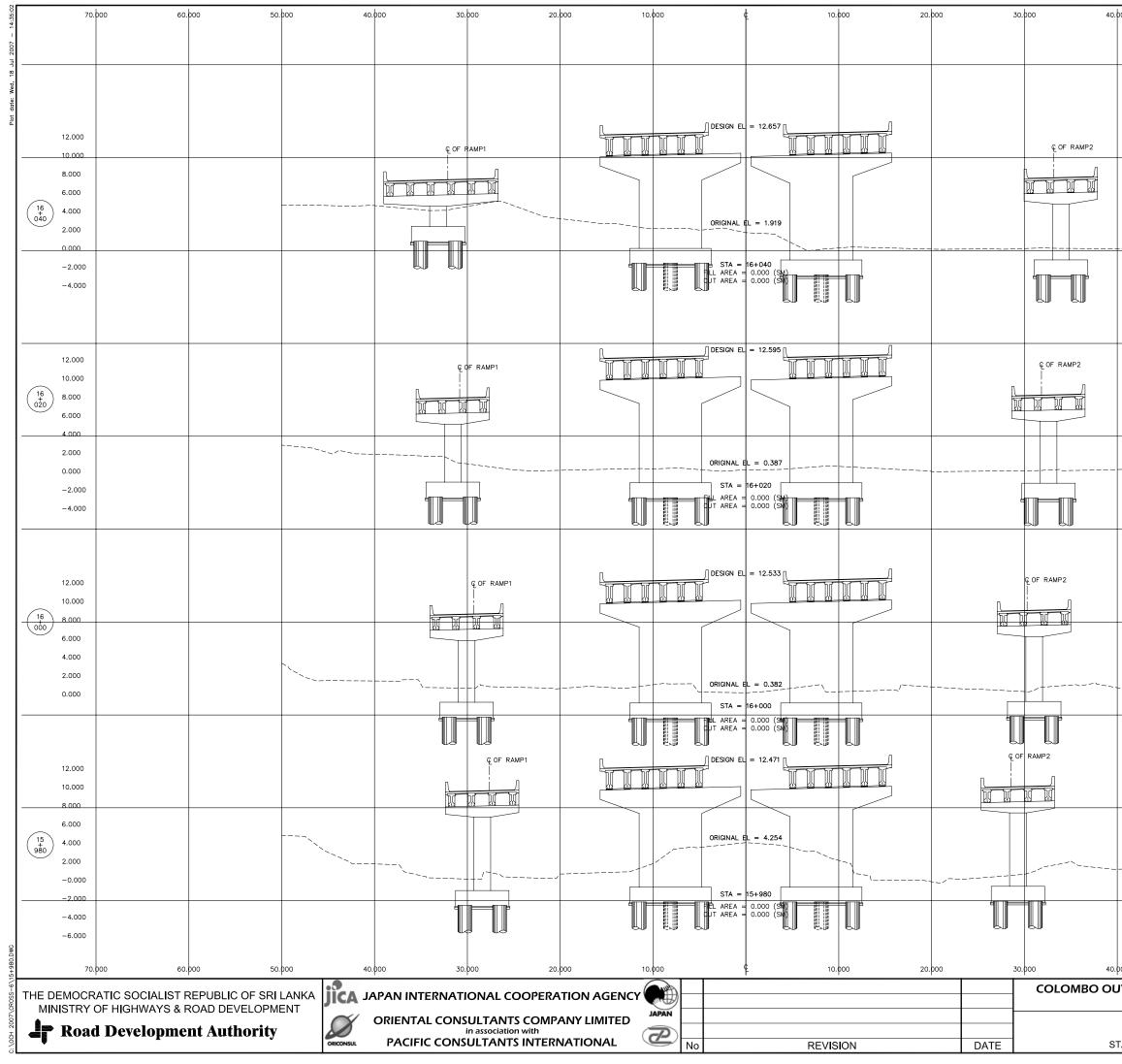
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TER CIRCULAR	HIGHWAY PROJI	ЕСТ	DESIGNED BY:		
(NORTHERN SECT			CHECKED BY:		
CROSS SECTI MAIN LINE	ON		APPROVED BY:		
MAIN LINE A. 15+810.000 TO 15		DWG. NO	).   C	CS-082	



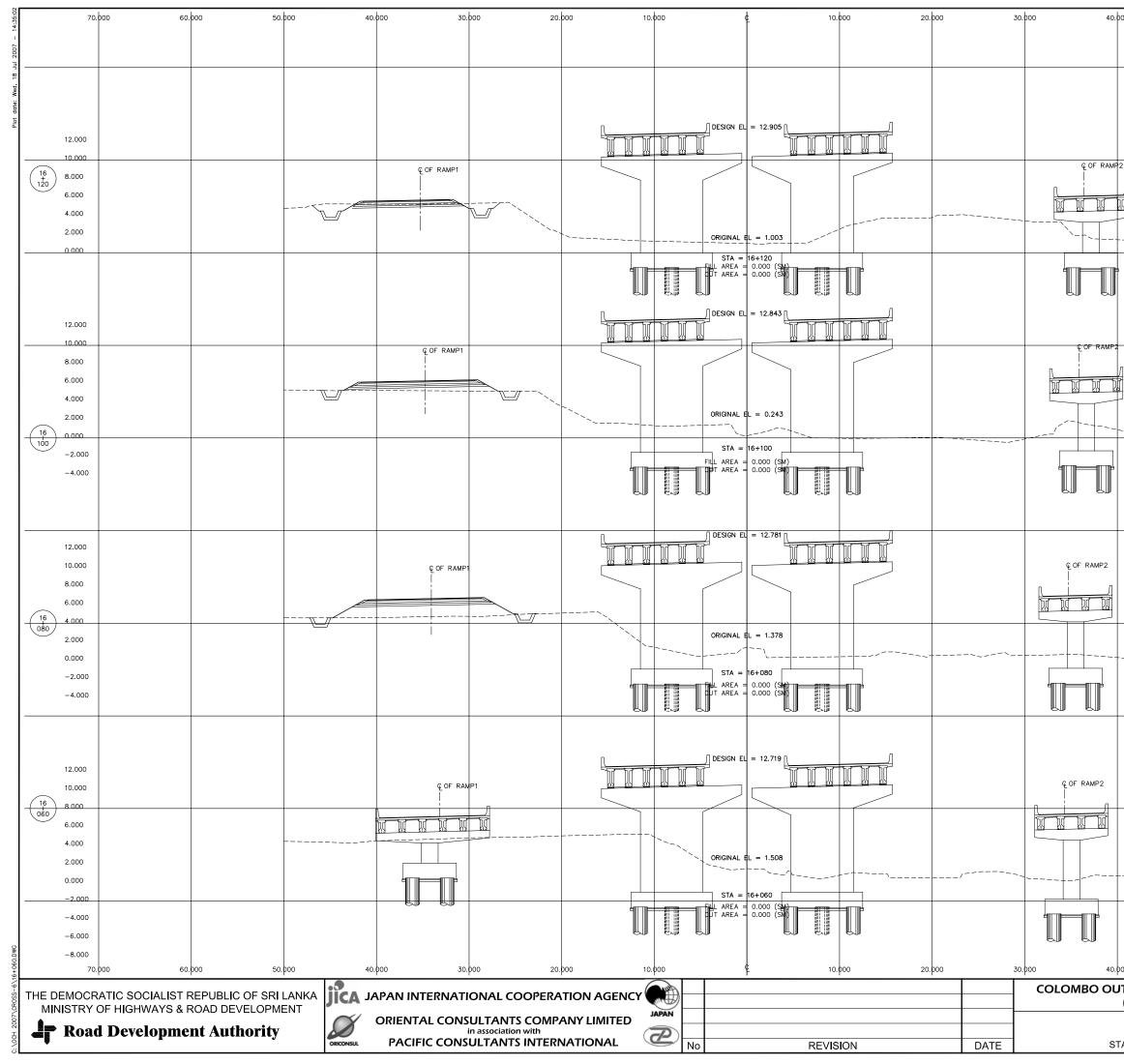
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MAIN LINE			DWG. NO		S-083
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	MAIN LINE			DWG. NC		CS-084
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A. 16+060.000 TO 16	+120.000			1 <sup>~</sup>	

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THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHWAYS & ROAD DEVELOPMENT			MENI		IADAN				(NORTHERN SEC	CTION 1)	CHECKED BY:	
APPROVED BY:	Road	l Development Authori	ty ORICONSUL	ORIENTAL CONSULTANT in association PACIFIC CONSULTANT	on with	No REVISION		DATE	CROSS SEC MAIN LIN STA. 16+140.000 TC	IE	DWG. NO.	CS-087
		I Development Authori		in associatio	S INTERNATIONAL	No REVISION		DATE	MAIN LIN STA. 16+140.000 TC	E ) 16+220.000	DWG. NO.	CS-087

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2SS−6	THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI L					COLOMBO O		DESIGNED BY: CHECKED BY:
107\CR(	MINISTRY OF HIGHWAYS & ROAD DEVELOPME	:NI					(NORTHERN SECTION 1) CROSS SECTION	APPROVED BY:
OCH 2C	Road Development Authority		in association with				MAIN LINE	DWG. NO. CS-088
ž	<b>•</b>		ISULTANTS INTERNATIONAL	REVISION	DATE		STA. 16+240.000 TO 16+300.000	