Activity Name					2017			
TMCLK - Northern Connection Sub-Sea Tunnel Section	Apr M	lay	Jun	Jul	Aug	Sep Oct	Nov	Dec
Contract Dates								i i
Commencement and Completion Dates								i !
KD05 - Completion of Section 1A2 - Portion N1 to N4						KD05 - Completion of Section 1A	21- Portion N1 to N/	1
KD07 - Completion of Section 1C - Portion N5 & N7		!				KD07 - Completion of Section 10	i	i
Site Possession Date					i		!	j
Portions: X1,(N10,11,13 & 14) - Sth Landfall								
Handover Date		!			1			1
Portions: N1 ~ N4					•	Portions: N1 ~ N4		i !
Portions: N5 & N7					•	Portions: N5 & N7		 
Portion: N6A					•	Portion: N6A		1
General Submissions								
PAYMENT MILESTONE								
Design and Design Checking of the Works  MS 2.5 SubmitAIP for seawall modification works at Southern Landfall	ddification works at Souther	n Landfall						1
MS 2.6 Approve AIP for seawall modification works at Southern Landfall by the Supervising Officer	+;		for seawall mod	dification works at	¦ Southern Landfall	; by the Supervising Officer		ļ
MS 2.7 Submit DDA for se awall modification works at Southern Landfall					1	dification works at Southern Landfa	all .	i !
MS 2.8 Approve DDA for seawall modification works at Southern Landfall by the Supervising Officer						♦ MS 2.8 Approv	ve DDA for seawall m	nodification works
MS 2.44 Approve DDA for South Ventilation Building by the Supervising Officer								1
MS 2.52 Approve DDA for Facilities Provision for TCSS by the Supervising Officer								
MS 2.60 Approve DDA for Drainage, Sewerage, Waterworks and Utilities at Northern Landfall by the Supervi- MS 2.69 Submit draft Operation and Maintenance Manual for all Tunnels and Cross Passgaes			į		i I			1
MS 2.70 Accept Operation and Maintenance Manual for all Tunnels and Cross Passgaes by the Supervising								1
MS 2.71 Submit draft Operation and Maintenance Manual for all works except Tunnels and Cross Passgaes								
MS 2.72 Accept Operation and Maintenance Manual for all works except Tunnels and Cross Passgaes by the					i !			
MS 2.73 Complete the whole of the activities under this Cost Centre to the satisfaction of the Supervising Office							olete the whole of the	activities under t
Tunnel Boring Machine (TBM) and Back-up Equipment for TBM Tunnel								
MS 3.1.6 Removal of TBM for Southbound Tunnel from Site after the completion of TBM Tunnel  MS 3.1.12 Removal of TBM for Northbound Tunnel from Site after the completion of TBM Tunnel	uthbound Tunnel from Site		1		- Tuppel			
MS 3.1.12 Removal of TBM for Northbound Tunnel from Site after the completion of TBM Tunnel  MS 3.1.25 Demolition of Slurry Treatment Plant on completion	oval of TBM for Northbound dition of Slurry Treatment P		- 1	impletion of IBM	rumei			
MS 3.1.26 Complete the whole of the activities under this Cost Centre Part to the satisfaction of the Supervisin	i i i i i i i i i i i i i i i i i i i	.a. it on winpi			T			1
TBM Tunnel								
MS 3.3.4 Complete walls of retrieval shaft								
MS 3.3.5 Complete excavation to formation level for retrieval shaft and complete casting of base slab	complete casting of base sl	ab			! !			1
MS 3.3.6 Complete all necessary works of retrieval shaft to facilitate retrieval of TBM	rieval of TBM							ļ
MS 3.3.45 Completion of excavation, support and permanent lining for 60% of the total length (measured on MS 3.3.46 Completion of excavation, support and permanent lining for 62.5% of the total length (measured on	lon plan) of the							
MS 3.3.47 Completion of excavation, support and permanent lining for 65% of the total length (measured on permanent lining for 65% of the total length lining for 65% of the total length (measured on permanent lining for 65% of the total length lining for 65% of the total length (measured on permanent lining for 65% of the total length lining for 65% of the total length (measured on permanent lining for 65% of the total length lining for 65% of the total length lining for 65%	n plan) of the N							1
MS 3.3.48 Completion of excavation, support and permanent lining for 67.5% of the total length (measured or	on plan) of the							
MS 3.3.49 Completion of excavation, support and permanent lining for 70% of the total length (measured on I	n plan) of the N							
MS 3.3.50 Completion of excavation, support and permanent lining for 72.5% of the total length (measured or	length (measured on plan)	) of the			T	T	1	1
	ength (measured on plan) o							
MS 3.3.52 Completion of excavation, support and permanent lining for 77.5% of the total length (measured or			į		i !			
MS 3.3.53 Completion of excavation, support and permanent lining for 80% of the total length (measured on IMS 3.3.54 Completion of excavation, support and permanent lining for 82.5% of the total length (measured on	ength (measured on plan) o  -   82.5% of the total length (m		nlan) of the					1
	85% of the total length (me				<del>,</del>			i 
MS 3.3.56 Completion of excavation, support and permanent lining for 87.5% of the total length (measured or	87.5% of the total length (m	1.	· '		i !			
MS 3.3.57 Completion of excavation, support and permanent lining for 90% of the total length (measured on I	90% of the total length (me	easured on pla	an) of the N					
MS 3.3.58 Completion of excavation, support and permanent lining for 92.5% of the total length (measured or	r 92.5% of the total length (r	measured on	plan) of the					
MS 3.3.59 Completion of excavation, support and permanent lining for 95% of the total length (measured on part of the control	ermanent lining for 95% of t				; <del>-</del>	i 		
MS 3.3.60 Completion of excavation, support and permanent lining for 97.5% of the total length (measured or MS 3.3.61 Completion of excavation, support and permanent lining for 100% of the total length (measured or	ermanent lining for 97.5% o							
MS 3.3.111 Completion of excavation, support and permanent lining for 87.5% of the total length (measured c	ermanent lining for 100% of all length (measured on plan		gin (measuread	on pian) oi the	1			
MS 3.3.112 Completion of excavation, support and permanent lining for 90% of the total length (measured on	or 90% of the total length (m		olan) of the					
MS 3.3.113 Completion of excavation, support and permanent lining for 92.5% of the total length (measured (	or 92.5% of the total length (	measured on	n plan) of th					
MS 3.3.114 Completion of excavation, support and permanent lining for 95% of the total length (measured on	r 95% of the total length (m	easured on p	olan) of the					1
MS 3.3.115 Completion of excavation, support and permanent lining for 97.5% of the total length (measured c	or 97.5% of the total length (		1 1					
MS 3.3.116 Completion of excavation, support and permanent lining for 100% of the total length (measured or MS 3.3.118 Complete tunnel internal structures for 50% of total length (measured on plan) of the Northbound	r 100% of the total length (r			a) of the Newton	nd TPM Towns			
MS 3.3.118 Complete tunnel internal structures for 50% of total length (measured on plan) of the Northbound MS 3.3.119 Complete tunnel internal structures for 75% of total length (measured on plan) of the Northbound	rnal structures for 50% of to	- 1		<i>'</i>	i	; }% of total length (measured on pla	n) of the Northboun	id TBM Tunnel
MS 3.3.120 Complete tunnel internal structures for 100% of total length (measured on plan) of the Northboun				,	T	÷	mplete tunnel interr	-;
MS 3.3.122 Complete tunnel internal structures for 50% of total length (measured on plan) of the Southbound	rnal structures for 50% of to	otal length (me	; easured on plar	n) of the Southbo	nd TBM Tunnel			
MS 3.3.123 Complete tunnel internal structures for 75% of total length (measured on plan) of the Southbound		<b>♦</b> №	MS 3.3.123 Com	nplete tunnel inter	nal structures for 7	% of total length (measured on pla	n of the Southbour	nd TBM Tunnel
MS 3.3.124 Complete tunnel internal structures for 100% of total length (measured on plan) of the Southbour						i j	omplete tunnel interr	i
MS 3.3.125 Complete drainage and sewerage installations of the Northbound TBM Tunnel  MS 3.3.126 Complete drainage and sewerage installations of the Southbound TBM Tunnel						÷	omplete drainage an	-;
Cross Passages for TBM Tunnel			į			MS 3.3.126 Cc	omplete drainage an	u sewerage insta
MS 3.3.1 Complete 50% of ground treatment for excavation of all Type 1 Cross Passages(Percentage to be or	1 Cross Passages (Percent	tage to be cer	rtified for 50%					
MS 3.3.2 Complete 100% of ground treatment for excavation of all Type 1 Cross Passages(Percentage to be			•	MS 3.3.2 Comp	ete 100% of groun	d treatment for excavation of all Typ	e 1 Cross Passage:	s (Percentage to b
MS 3.3.3 Complete 50% of ground treatment for excavation of all Type 2 Cross Passages(Percentage to be o	2 Cross Passages(Percent	tage to be cer	rtified for 50%		 			1
MS 3.3.4 Complete 100% of ground treatment for excavation of all Type 2 Cross Passages(Percentage to be		1		•	d treatment for ex	avation of all Type 2 Cross Passag	es(Percentage to be	certified for 10
MS 3.3.5 Complete 50% of excavation and support for all Type 1 Cross Passages(Percentage to be certified f	for all Type 1 Cross Passag	es(Percentag	.!			<u> </u>	De la la	
MS 3.3.6 Complete 100% of excavation and support for all Type 1 Cross Passages(Percentage to be certified MS 3.3.7 Complete 50% of excavation and support for all Type 2 Cross Passages(Percentage to be certified f	for all Time 2 Ores Deserve	pe(Perse		•	ete 100% of excav	ation and support for all Type 1 Cro	ss Passages(Percer	ntage to be certific
MS 3.3.7 Complete 50% of excavation and support for all Type 2 Cross Passages(Percentage to be certified MS 3.3.8 Complete 100% of excavation and support for all Type 2 Cross Passages(Percentage to be certified	for all Type 2 Cross Passag	es(rercentag	ge to be certified	comple %טכ וטו ג	MS 3.3.8 Compl	tete 100% of excavation and suppo	rt for all Type 2 Cros	ss Passages/Pero
MS 3.3.9 Complete 50% of permanent lining and internal structures for all Type 1 Cross Passages(Percentag	anent lining and internal str	uctures for all	Il Type 1 Cross F	Passages(Percen			1, 2, 3, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	
MS 3.3.10 Complete 100% of permanent lining and internal structures for all Type 1 Cross Passages(Percent				- ,	1	MS 3.3.10 Complete 100% of pe	rmanent lining and	internal structures
MS 3.3.11 Complete 50% of permanent lining and internal structures for all Type 2 Cross Passages(Percenta	plete 50% of permanent linir	ng and intern	nal structures for	all Type 2 Cross	Passages(Percent	age to be certif		
MS 3.3.12 Complete 100% of permanent lining and internal structures for all Type 2 Cross Passages(Percent					•	MS 3.3.12 Complete 100% of pe	rmanent lining and	internal structures
Cut-and-cover Tunnels at Southern Landfalls  MS 4.1.1 Complete 10% of total length (magning on plan) of temporary retaining walls for everyation of Cut.	ļ				 	; ; ;		 
MS 4.1.1 Complete 10% of total length (measured on plan) of temporary retaining walls for excavation of Cut- MS 4.1.2 Complete 20% of total length (measured on plan) of temporary retaining walls for excavation of Cut-					i !			: 1 1
MS 4.1.2 Complete 20% of total length (measured on plan) of temporary retaining walls for excavation of Cut-					! ! !		1	1 1 1
MS 4.1.4 Complete 40% of total length (measured on plan) of temporary retaining walls for excavation of Cut-			į					
MS 4.1.5 Complete 50% of total length (measured on plan) of temporary retaining walls for excavation of Cut-					! !			1
MS 4.1.6 Complete 60% of total length (measured on plan) of temporary retaining walls for excavation of Cut-								,
age 1 of 13 Planned Bar TMCLK - Nort	horn Connection C	ub Sac 3	Tuppal Ca	otion		Date	Revision Ch	ecked Approved
1.4	hern Connection S	uu-Sea I	runner Sec	CHOIT		08-Apr-14 TMCLK/DBJ	GEN/PRG/98507 WYu GEN/PRG/98507 Rev.B SPa	SPo WYu
roject ID: TMCLK DWPF 17W30 Planned Bar - Critical  Planned Bar - Critical Planned Milestone Deta	iled Works Prograr	mme (Re	ev. F)			28-Aug-14 TMCLK/DBJ 30-Oct-15 TMCLK/DBJ	GEN/PRG/98507 Rev. C CLa GEN/PRG/98507 Rev. F WYu	WYu
pata Date: 30-Jul-17 Progress bar			•					

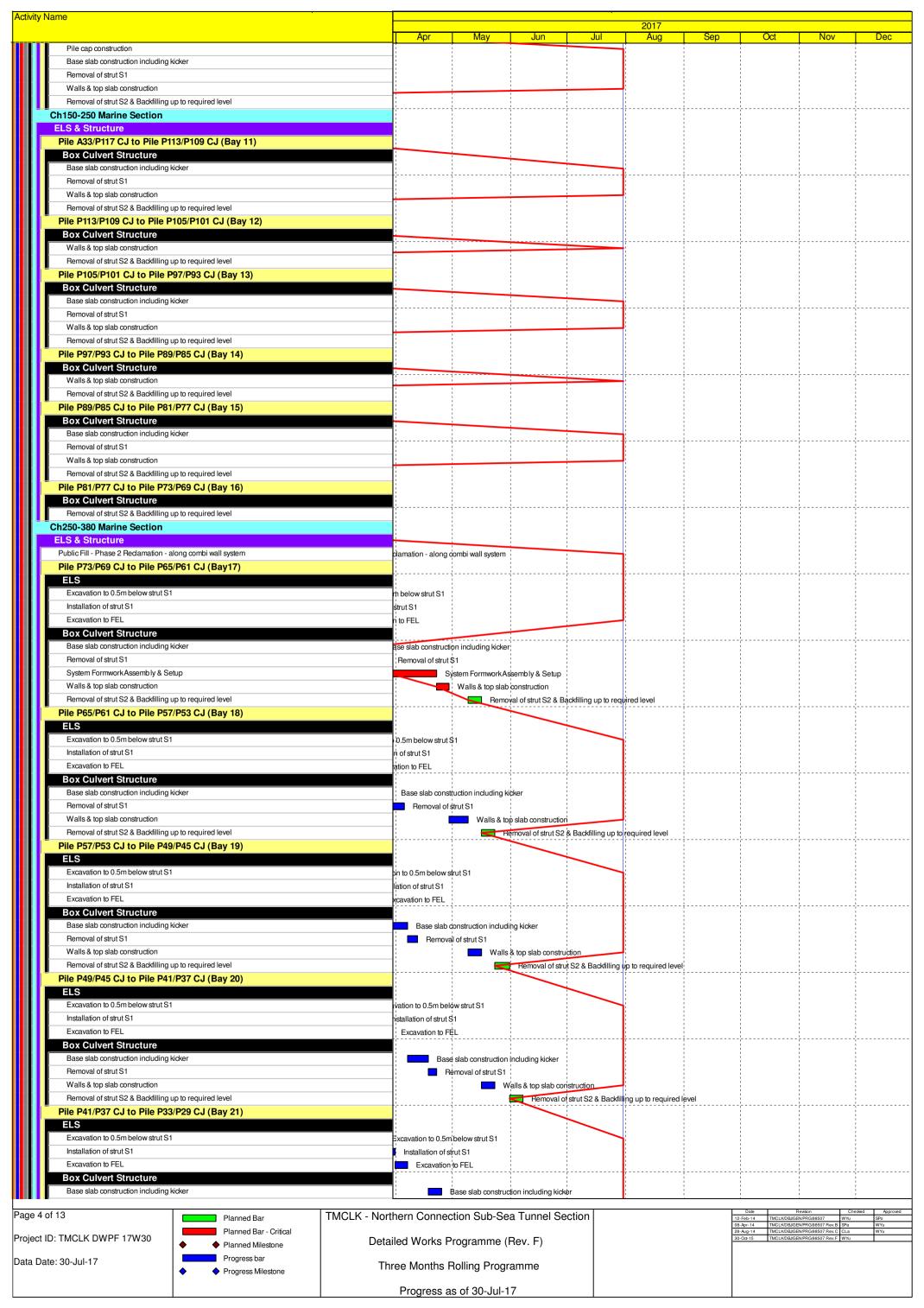


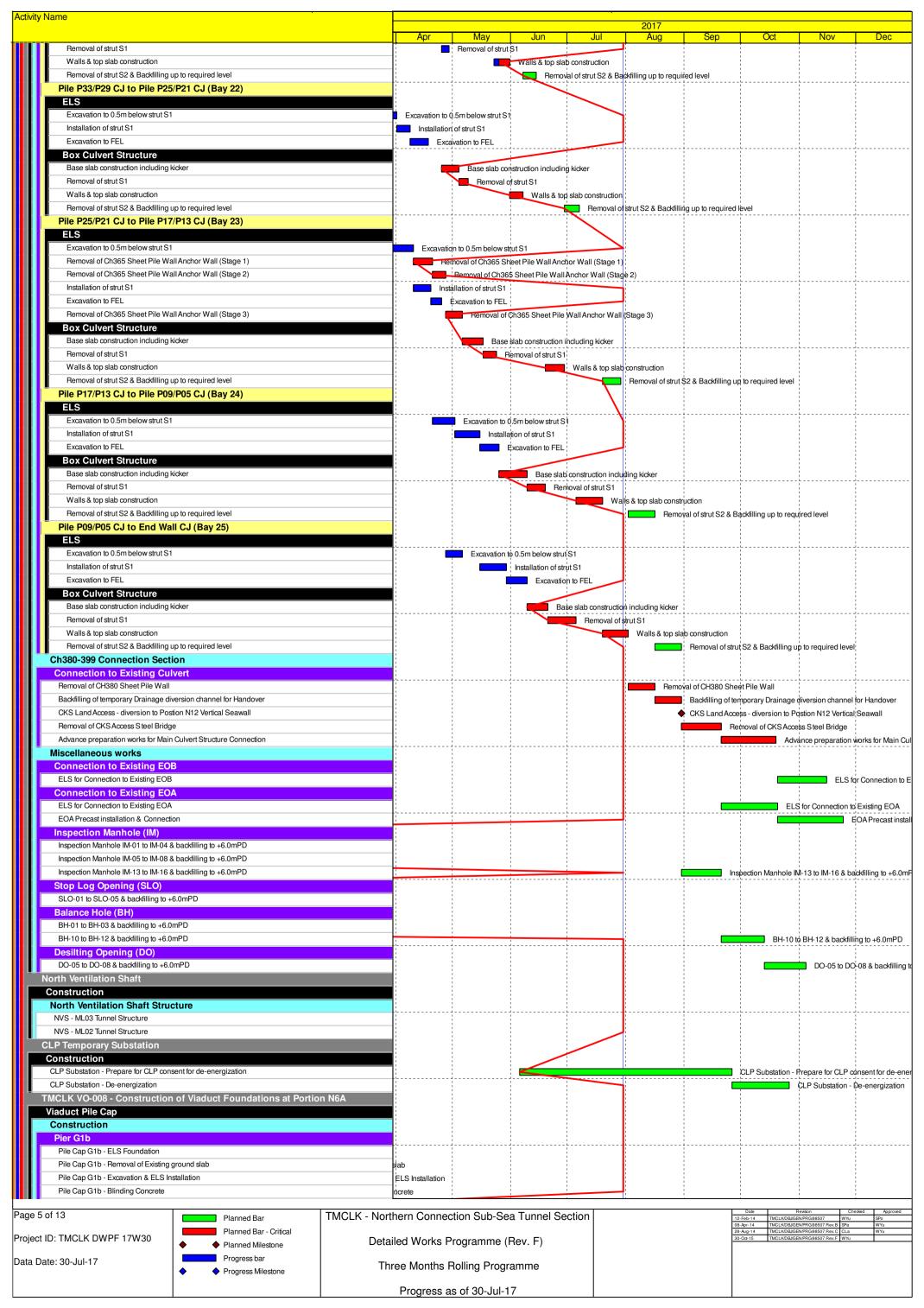
Three Months Rolling Programme

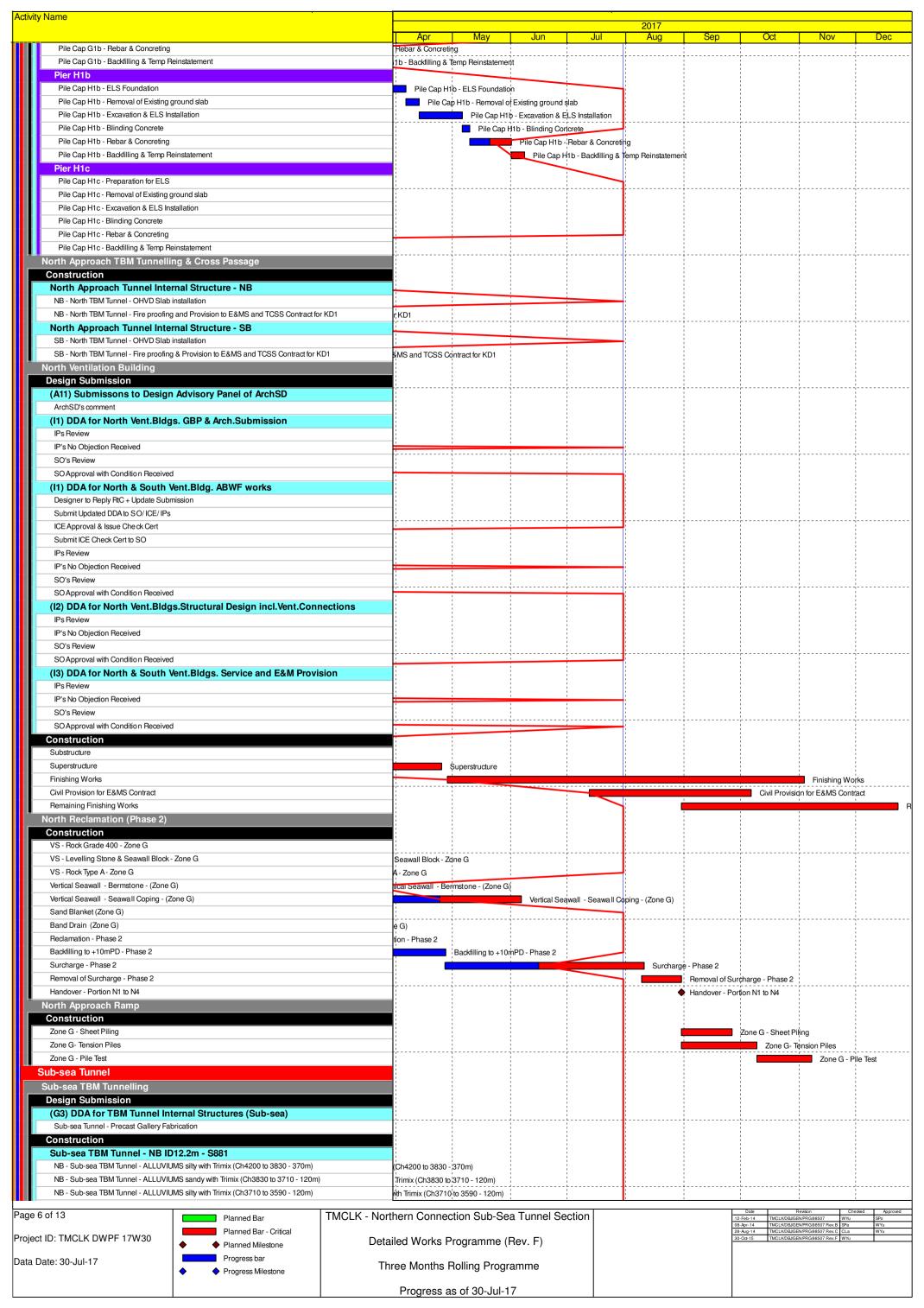
	TMCLK/DBJ/GEN/PRG/98507	WYu	SPo
08-Apr-14	TMCLK/DBJGEN/PRG/98507 Rev. B	SPa	WYu
28-Aug-14	TMCLK/DBJGEN/PRG/98507 Rev. C	CLa	WYu
30-Oct-15	TMCLK/DBJGEN/PRG/98507 Rev. F	WYu	

Activity Name	<u> </u>									
		Apr	May	Jun	Jul	2017 Aug	Sep	Oct	I Nov	Dec
MS 4.1.7 Complete 70% of total length (measured on plan) of te	mporary retaining walls for excavation of Cut-	<u> </u>	iviay	L	Jui	L	l och		1400	1
MS 4.1.8 Complete 80% of total length (measured on plan) of te	mporary retaining walls for excavation of Cut-		 	1		į				- 
MS 4.1.9 Complete 90% of total length (measured on plan) of te	mporary retaining walls for excavation of Cut-	i	! ! !				! ! !			! !
MS 4.1.10 Complete 100% of total length (measured on plan) of	f temporary retaining walls for excavation of C		! !	ļ 	ļ	<u>.</u>	! !		!	! !
MS 4.1.11	.1	1	 			: 1 1				! !
MS 4.1.12 Complete 40% of excavation for Cut-and-cover tunne			1 1 1	1			1 1 1		1	1
MS 4.1.13 Complete 60% of excavation for Cut-and-cover tunne  MS 4.1.14 Complete 80% of excavation for Cut-and-cover tunne		L'actor trancel	1 1 1	1			! !			! ! !
MS 4.1.15 Complete 100% of excavation for Cut-and-cover tunine		l-cover tunnel	votion for Cut and	d cover tupped			! !		1	1
MS 4.1.16 Complete permanent tunnel structure for 10% of the t		plete 100% of exca	avalion for Cut-and	d-cover tunner		<u> </u>	! !			! !
MS 4.1.17 Complete permanent tunnel structure for 20% of the t			1 1 1	1		ŀ	1			1
MS 4.1.18 Complete permanent tunnel structure for 30% of the t		¦ -¢over Tunnel	1 				! ! !			1
MS 4.1.19 Complete permanent tunnel structure for 40% of the t	total length (measured on plan) of Cut-and-cc	-cover Tunnel	 			1	1			1
MS 4.1.20 Complete permanent tunnel structure for 50% of the t	total length (measured on plan) of Cut-and-cc	n plan) of Cut-and-	cover Tunnel							
MS 4.1.21 Complete permanent tunnel structure for 60% of the t	total length (measured on plan) of Cut-and-cc	tunnel structure for	60% of the total le	ength (measured o	n plan) of Cut-and	cover Tunnel	1			
MS 4.1.22 Complete permanent tunnel structure for 70% of the t	total length (measured on plan) of Cut-and-cc	plete permanent tu	nnel structure for 7	70% of the total ler	ngth (measured or	plan) of Cut-and-c	pver Tunnel			! !
MS 4.1.23 Complete permanent tunnel structure for 80% of the t	. ,	[1 ]	1	į.		plan) of Cut-and-c				!
MS 4.1.24 Complete permanent tunnel structure for 90% of the t		MS 4.1.24 Com	blete permanent tu ¦	1	!	ngth (measured on	(	!		
MS 4.1.25 Complete permanent tunnel structure for 100% of the MS 4.1.26 Complete excavation for 50% of total length (measure		·			MS 4.1.25 Com	piete permanent tui	nnei structure to	r 100% of the total le	ength (measured o	n plan) of Cut-and
MS 4.1.27 Complete excavation for 100% of total length (measure			 							
MS 4.1.28 Complete permanent junction structure at interface be			! !		MS 4.1.28 Com	¦ blete permanent iui	; action structure :	at interface between	Cut-and-cover Tui	; inel and TBM Tun
MS 4.1.29 Complete pavement for 50% of the total length (meas		¦ length (measured d	; on plan) of Cut-and	i		i i	, <b></b>	i i	l	i
MS 4.1.30 Complete pavement for 100% of the total length (mea			, , , , , , , , , , , , , , , , , , , ,	1	MS 4.1.30 Com	lete pavement for	100% of the tota	I length (measured	on plan) of Cut-and	d-cover Tunnel
MS 4.1.31 Complete the whole of the activities under this Cost Co	entre to the satisfaction of the Supervising Off					÷'	<del>!</del>	er this Cost Centre to		{
Cut-and-cover Tunnel at Northern Landfall										[
MS 4.2.22 Complete tunnel internal structure for 50% of NB Nort	thern Landfall TBM Tunnel	:	,   	1			,   	 	:	[
MS 4.2.23 Complete tunnel internal structure for 100% of NB No										[
MS 4.2.25 Complete tunnel internal structure for 100% of SB No		Landfall TBM Tun		ļ	ļ	į į	: <del> </del> <del> </del>			<u> </u>
MS 4.2.29 Complete 100% of permanent lining and internal stru	-	andfall Cross Pass	ages							
MS 4.2.30 Complete Permanent tunnel structure for 25% of Cut  MS 4.2.31 Complete Permanent tunnel structure for 50% of Cut			 	· ! !			! !			[
MS 4.2.32 Complete Permanent tunnel structure for 55% of Cut  MS 4.2.32 Complete Permanent tunnel structure for 75% of Cut		over Tunnel								
MS 4.2.33 Complete Permanent tunnel structure for 100% of Cut		1	,   			4	MS 4.2.33 Co	mplete Permanent t	unnel structure for	100% of Cut and
MS 4.2.34 Complete Permanent junction structure at interface be		<del> </del>				†				
Approach Ramp Structures to Cut-and-cover To	unnel at Southern Landfall		 							
MS 5.1.2 Complete 40% of excavation for approach ramp structu		!	 				 	!	!	
MS 5.1.3 Complete 60% of excavation for approach ramp structu	ures		 	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!		:	! !	 		
MS 5.1.4 Complete 80% of excavation for approach ramp structu	ures			j	i L		: ! !			j
MS 5.1.5 Complete 100% of excavation for approach ramp struc	ctures		1 1 1				! !			
MS 5.1.6 Complete retaining wall foundation for 10% of the total							! !			
MS 5.1.7 Complete retaining wall foundation for 20% of the total			1 1 1				! !			
MS 5.1.8 Complete retaining wall foundation for 30% of the total	. , , , ,		 				! !			
MS 5.1.9 Complete retaining wall foundation for 40% of the total	1 / 11	ļ		ļ	ļ	ļ	¦		. <del> </del>	
MS 5.1.10 Complete retaining wall foundation for 50% of the total MS 5.1.11 Complete retaining wall foundation for 60% of the total	. , , , , , , , , , , , , , , , , , , ,		 				! !			
MS 5.1.12 Complete retaining wall foundation for 70% of the total	. , , , , , , , , , , , , , , , , , , ,		,   							! !
MS 5.1.13 Complete retaining wall foundation for 80% of the total	. , , , , , , , , , , , , , , , , , , ,		 				1			1
MS 5.1.14 Complete retaining wall foundation for 90% of the total	. , , , , , , , , , , , , , , , , , , ,		 				! ! !			1
MS 5.1.15 Complete retaining wall foundation for 100% of the to	. , , , ,				ļ	i			· <del> </del>	
MS 5.1.16 Complete retaining wall structure for 10% of the total I	. , , , ,			MS 5.1.16 Com	¦ plete retaining wa	; structure for 10%	¦ pf the total lengt	h (measured on plar	; n) of approach ram	; p structure
MS 5.1.17 Complete retaining wall structure for 20% of the total I	length (measured on plan) of approach ramp			MS 5.1.17 Com	; plete retaining wa	; l¦structure for 20%	; bf the total lengt	; h (measured on plar	n) of approach ram	ip structure
MS 5.1.18 Complete retaining wall structure for 30% of the total l	length (measured on plan) of approach ramp		1 1 1	4	MS 5.1.18 Com	lete retaining wall	structure for 30°	% of the total length (	measured on plan	of approach ram
MS 5.1.19 Complete retaining wall structure for 40% of the total I	length (measured on plan) of approach ramp		!	•	MS 5.1.19 Com	blete retaining wall	structure for 40°	% of the total length (	measured on plan	of approach ram
MS 5.1.20 Complete retaining wall structure for 50% of the total I	length (measured on plan) of approach ramp		1 1 1			MS 5.1.20 Com	lete retaining w	all structure for 50%	of the total length	measured on plai
MS 5.1.21 Complete retaining wall structure for 60% of the total I	. , , , , , , , , , , , , , , , , , , ,	!	 				i	mplete retaining wa	i	i
MS 5.1.22 Complete retaining wall structure for 70% of the total I			! ! !			•	MS 5.1.22 Co	mplete retaining wal	1	
MS 5.1.23 Complete retaining wall structure for 80% of the total I			! !				! !	◆ MS 5.1.23 Com	1	!
MS 5.1.24 Complete retaining wall structure for 90% of the total I Approach Ramp Structures to Cut-and-cover Tu		ļ						◆ MS 5.1.24 Com	piete retaining wal	structure for 90%
MS 5.2.1 Complete 20% of excavation for approach ramp struct		1	 	1 1 1	-	1			lete 20% of excess	tion for approach
MS 5.2.2 Complete 40% of excavation for approach ramp structu			 					<ul> <li>♦ MS 5.2.1 Compl</li> <li>♦ MS 5.2.2 Compl</li> </ul>	i	
MS 5.2.6 Complete retaining wall foundation for 10% of the total		!	1 1 1	 		MS 5.2.6 Compl	ete retaining wa	Il foundation for 10%	1	
MS 5.2.7 Complete retaining wall foundation for 20% of the total			 			l!	!	II foundation for 20%	!	!'
MS 5.2.8 Complete retaining wall foundation for 30% of the total		1	;			<u> </u>	¦	II foundation for 30%	·	{
MS 5.2.9 Complete retaining wall foundation for 40% of the total	length (measured on plan) of approach ramp					MS 5.2.9 Compl	ete retaining wa	II foundation for 40%	of the total length	(measured on pla
MS 5.2.10 Complete retaining wall foundation for 50% of the total	. , , , , ,	1		i ! !		MS 5.2.10 Comp	lete retaining w	al foundation for 50	% of the total lengt	h (measured on p
MS 5.2.11 Complete retaining wall foundation for 60% of the total						1		all foundation for 60	!	! "
MS 5.2.12 Complete retaining wall foundation for 70% of the total		; 	; ; !		ļ	(+ · ·	¦	all foundation for 70	. <del> </del>	{i
MS 5.2.13 Complete retaining wall foundation for 80% of the total	. , , , ,			1		G :		/all foundation for 80	-	1
MS 5.2.14 Complete retaining wall foundation for 90% of the total	. , , , ,	1	1 	 			i	mplete retaining wal	i	,
MS 5.2.15 Complete retaining wall foundation for 100% of the to At grade Roads at Southern Landfall	ran rengin (measured on pian) of approach re		1 1 1	!		•	r IVIO 5.2.15 CO	mplete retaining wa	il louridation for 10	יי איז נחפ total len
MS 6.1.1 Complete sub-base works of 20% of total area of at gra	ade roads		 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		_	MS611000	plete sub-base wor	ks of 20% of total a	rea of at grade re-
MS 6.1.5 Complete pavement of 20% of total area of at grade ro						†		MS 6.1.5 Compl		
MS 6.1.13 Complete drainage installation of 20% length of total		1	! ! !	4	MS 6.1.13 Com	; plete drainage insta	: allation of 20% le	ength of total length	1 '	:
MS 6.1.14 Complete drainage installation of 50% length of total	. , , , , , , , , , , , , , , , , , , ,	!	 				1	◆ MS 6.1.14 Com	``	"
MS 6.1.17 Complete watermains installation of 20% length of tot	tal length (measured on plan) of watermains	1	; ; ; ;	1 1 1 1		•	MS 6.1.17 Co	mplete watermains i	nstallation of 20%	length of total leng
At grade Roads at Northern Landfall			 	ļ	ļ	<u> </u>	! !			<u> </u>
MS 6.2.1 Complete sub-base works of 20% of total area of at gra			<del>-</del> '	1	MS 6.2.1 Comp	li .	;	area of at grade roa	i	! !
MS 6.2.5 Complete pavement of 20% of total area of at grade ro				1		i i	i	20% of total area of	at grade roads	
MS 6.2.13 Complete drainage installation of 20% length of total		MS 6.2.13 Comp	plete drainage inst ¦	tallation of 20% ler	ngth of total length ¦	(measured on plar ¦	,	' i	Lu_p	l L
MS 6.2.14 Complete drainage installation of 50% length of total	. , , , , , , , , , , , , , , , , , , ,	MOGGITT	-	h-11-4 (0	i I	!	!	mplete drainage ins	tallation of 50% le	ngth of total length ¦
MS 6.2.17 Complete sewerage installation of 20% length of total  MS 6.2.18 Complete sewerage installation of 50% length of total	- · · · · · · · · · · · · · · · · · · ·	vio 6.2.17 Com	piete sewerage ins	รเลแสมิดท of 20% le	gigin of total lengt	(measured on pla	ļii	oipes mplete sewerage in:	etallation of E00/	anath of total large
MS 6.2.21 Complete watermains installation of 20% length of tot		1		MS 6 2 21 Com	nolete watermaine	li i	:	mplete sewerage in: ngth (measured on p	1	, ,
MS 6.2.23 Complete watermains installation of 50% length of tot	. , ,			, U.E.E I UUIII	.proto watermanis	1 1	rigai oi lolai lel !	MS 6.2.23 Com	; '	;
	5. (	<u>                                     </u>	<u>:</u>	1	!	<u> </u>		U.E.EU UUIII	- · · · · · · · · · · · · · · · · · · ·	, January II VI JU /0
Page 2 of 13	d Bar TMCLK - Nort	hern Connec	tion Sub-Se	a Tunnel Se	ection		ŀ		EN/PRG/98507 WYu	ecked Approved SPo
Planne	d Bar - Critical			_				28-Aug-14 TMCLK/DBJ/GI	EN/PRG/98507 Rev. B SPa EN/PRG/98507 Rev. C CLa	WYu WYu
Project ID: TMCLK DWPF 17W30   ◆ Planne	d Milestone Deta	iled Works P	rogramme (	Rev. F)				30-Oct-15 TMCLK/DBJ/GI	EN/PRG/98507 Rev.F WYu	1
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South Ventilation Buildings		1							†  -  -
MS 7.1.1 Complete 100% of cofferdam for excavation  MS 7.1.2 Complete 100% of excavation to the formation level					‡		 	; ;	! ! !
MS 7.1.2 Complete 100% of excavation to the formation level	-	1					1 1 1	 	1 1 1
MS 7.1.4 Complete concreting works of 25% area of the total construction floor area for the ventilation building	he ventilation buildir	ng							 
MS 7.1.5 Complete concreting works of 50% area of the total construction floor area for the ventilation building	-I: :	•	ne ventilation build	ing			 	 	 
MS 7.1.6 Complete concreting works of 75% area of the total construction floor area for the ventilation building	lete concreting work	s of 75% area of t	he total construction	on floor area for th	ventilation buildin	g	 		 
MS 7.1.7 Complete concreting works of 100% area of the total construction floor area for the ventilation building	MS 7.1.7 Comple	te concreting wor	ks of 100% area o	f the total construc	tion floor area for th	e ventilation build	ling		
MS 7.1.9 Complete 100% of drainage, watermain and utilities connection works for the ventilation building					•	MS 7.1.9 Comp	lete 100% of draina	age, watermain an	d utilities o
North Ventilation Buildings	4	 					 		 
MS 7.2.4 Complete concreting works of 25% area of the total construction floor area for the ventilation building MS 7.2.5 Complete concreting works of 50% area of the total construction floor area for the ventilation building	<b>-</b> 1; ;	na					 		! ! !
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MS 7.2.7 Complete concreting works of 100% area of the total construction floor area for the ventilation building		!	!	_	tion floor area for th	ne ventilation build	ling		  -  -
MS 7.2.9 Complete 100% of drainage, watermain and utilities connection works for the ventilation building					•	MS 7.2.9 Comp	ete 100% of draina	age, watermain ar	¦ id utilities o
Facilities Provision for TCSS for At Grade Roads at Southern Landfall	1	 					 	!	 
MS 8.1.5 Complete 25% of support foundation, ductings, drawpits for at grade roads	]				•	MS 8.1.5 Comp	lete 25% of suppor	t foundation, ducti	hgs, drawp
Facilities Provision for TCSS for At Grade Roads at Northern Landfall							! !	!	! !
MS 8.2.5 Complete 25% of support foundation, ductings, drawpits for at grade roads	-		•	MS 8.2.5 Comp	ete 25% of support				
MS 8.2.6 Complete 50% of support foundation, ductings, drawpits for at grade roads  Facilities Provision for E&M Works for TBM Tunnel. Cut & Cover Tunnels and Cr						•	MS 8.2.6 Comple	ete 50% of suppor	t foundatio
MS 9.1.1 Complete 25% of bonding terminal, opening and accessories, etc.	4								
MS 9.1.2 Complete 25% of plinth, hoisting facilities and accessories, etc.									! !
MS 9.1.3 Complete 50% of bonding terminal, opening and accessories, etc.	ing terminal, openin	ng and accessorie	s, etc.				 	!	! !
MS 9.1.4 Complete 50% of plinth, hoisting facilities and accessories, etc.	hoisting facilities ar	_					 	!	! ! !
MS 9.1.5 Complete 75% of bonding terminal, opening and accessories, etc.	- II	i		g terminal, openin	and accessories,	etc.	 	!	! !
MS 9.1.6 Complete 75% of plinth, hoisting facilities and accessories, etc.	•	MS 9.1.6 Comple	te 75% of plinth, h	oisting facilities ar	d accessories, etc.		, , , 	,	
MS 9.1.7 Complete 95% of bonding terminal, opening and accessories, etc.	-[		<del>-</del>				lete 95% of bondin		!
MS 9.1.8 Complete 95% of plinth, hoisting facilities and accessories, etc.					•	MS 9.1.8 Comp	ete 95% of plinth, l	noisting facilities a	nd accesso
Facilities Provision for E&M Works for South Ventilation Building			MODALC	oto OFO( -11	la ta	le terre altre	the man to a second of the second	l Introise = - ''	l new three
MS 9.4.1 Complete 25% of bonding terminal, main earth mat, clean earth mat, earth pit, lightning pit, conceal MS 9.4.2 Complete 25% of plinth, hoisting facilities, louver, wire mesh and accessories, etc.					ng terminal, main ea hoisting facilities, ld			1	, conduit, c
MS 9.4.3 Complete 25% of floor drain, water tank and accessories, etc.					rain, water tank and				
MS 9.4.4 Complete 50% of bonding terminal, main earth mat, clean earth mat, earth pit, lightning pit, conceal	1	ļ	5 501110		! '		¦ ig terminal, main ea	arth mat, clean ea	th mat, ea
MS 9.4.5 Complete 50% of plinth, hoisting facilities, louver, wire mesh and accessories, etc.							hoisting facilities, lo	: :	:
MS 9.4.6 Complete 50% of floor drain, water tank and accessories, etc.				•	MS 9.4.6 Compl	ete 50% of floor di	ain, water tank and	accessories, etc.	! !
MS~9.4.7~Complete~75%~of~bonding~terminal,~main~earth~mat,~clean~earth~mat,~earth~pit,~lightning~pit,~conceal~concea	<u> </u>				•	MS 9.4.7 Comp	ete 75% of bondin	g terminal, main e	arth mat, c
MS 9.4.8 Complete 75% of plinth, hoisting facilities, louver, wire mesh and accessories, etc.					•		lete 75% of plinth, l	!	!
MS 9.4.9 Complete 75% of floor drain, water tank and accessories, etc.	-				•	· .	lete 75% of floor dr	!	!
MS 9.4.10 Complete 95% of bonding terminal, main earth mat, clean earth mat, earth pit, lightning pit, concea MS 9.4.11 Complete 95% of plinth, hoisting facilities, louver, wire mesh and accessories, etc.	-						MS 9.4.10 Comp	; ;	
MS 9.4.12 Complete 95% of floor drain, water tank and accessories, etc.	-						MS 9.4.11 Comp MS 9.4.12 Comp	i	i
Facilities Provision for E&M Works for North Ventilation Building	d:i						WO 3.4.12 COMP		i aii, wate
MS 9.5.1 Complete 25% of bonding terminal, main earth mat, clean earth mat, earth pit, lightning pit, conceal	•	MS 9.5.1 Comple	te 25% of bonding	g terminal, main e	rth mat, clean eart	n mat, earth pit, lig	htning pit, conceal	conduit, o	! !
MS 9.5.2 Complete 25% of plinth, hoisting facilities, louver, wire mesh and accessories, etc.	•	MS 9.5.2 Comple	te 25% of plinth, h	oisting facilities, lo	uver, wire mesh an	d accessories, etc		;	
MS 9.5.3 Complete 25% of floor drain, water tank and accessories, etc.	•	MS 9.5.3 Comple	te 25% of floor dra	ain, water tank and	accessories, etc.		 	!	 
MS 9.5.4 Complete 50% of bonding terminal, main earth mat, clean earth mat, earth pit, lightning pit, conceal			•	MS 9.5.4 Comp	ete 50% of bonding	terminal, main ea	arth mat, clean ear	h mat, earth pit, lig	htning pit,
MS 9.5.5 Complete 50% of plinth, hoisting facilities, louver, wire mesh and accessories, etc.	-				ete 50% of plinth, h			d accessories, etd	
MS 9.5.6 Complete 50% of floor drain, water tank and accessories, etc.  MS 9.5.7 Complete 75% of bonding terminal, main earth mat, clean earth mat, earth pit, lightning pit, conceal	-		•	MS 9.5.6 Comp	ete 50% of floor dra		accessories, etc. g terminal, main e	arth mat clean ea	th mat ear
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MS 9.5.12 Complete 95% of floor drain, water tank and accessories, etc.						4	MS 9.5.12 Comp	lete 95% of floor o	rain, wate
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Ch000-010 Culvert Outfall  Removal of temporary bulk head		; ! !							
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CH100-150 Land Section  ELS & Structure  Pile A41/A39 CJ to Pile A39/A37 CJ (Bay 7)  Box Culvert Structure  Pile cap construction  Base slab construction including kicker  Removal of strut S1  Sliding formworks 1st assembly  Walls & top slab construction  Removal of strut S2 & Backfilling up to required level  Pile A39/A37 CJ to Pile A37/A35 CJ (Bay 8)  Box Culvert Structure  Pile cap construction  Base slab construction including kicker  Removal of strut S1  Walls & top slab construction  Removal of strut S1  Walls & top slab construction  Removal of strut S1  Walls & top slab construction  Removal of strut S2 & Backfilling up to required level  Pile A37/A35 CJ to Pile A35/A33 CJ (Bay 9)  Box Culvert Structure  Pile cap construction  Base slab construction including kicker  Removal of strut S1  Walls & top slab construction  Removal of strut S1  Walls & top slab construction  Removal of strut S2 & Backfilling up to required level  Pile A35/A33 CJ to Pile A33/P117 CJ (Bay 10)  Box Culvert Structure	thern Connect	ion Sub-Sea	a Tunnel Se	ction		08-	-Feb-14 TMCLK/DBJGE -Apr-14 TMCLK/DBJGE	N/PRG/98507 WYu N/PRG/98507 Rev.B SPa	SPo WYu
CH100-150 Land Section  ELS & Structure  Pile A41/A39 CJ to Pile A39/A37 CJ (Bay 7)  Box Culvert Structure  Pile cap construction  Base slab construction including kicker  Removal of strut S1  Sliding formworks 1 st assembly  Walls & top slab construction  Removal of strut S2 & Backfilling up to required level  Pile A39/A37 CJ to Pile A37/A35 CJ (Bay 8)  Box Culvert Structure  Pile cap construction including kicker  Removal of strut S1  Walls & top slab construction including kicker  Removal of strut S1  Walls & top slab construction  Removal of strut S2 & Backfilling up to required level  Pile A37/A35 CJ to Pile A35/A33 CJ (Bay 9)  Box Culvert Structure  Pile cap construction including kicker  Removal of strut S1  Walls & top slab construction  Base slab construction including kicker  Removal of strut S1  Walls & top slab construction  Removal of strut S1  Walls & top slab construction  Removal of strut S2 & Backfilling up to required level  Pile A35/A33 CJ to Pile A33/P117 CJ (Bay 10)  Box Culvert Structure  Pile A36/A33 CJ to Pile A36/A17 CJ (Bay 10)  Box Culvert Structure	thern Connect			ction		08- 28-	-Feb-14 TMCLK/DBJ/GE -Apr-14 TMCLK/DBJ/GE -Aug-14 TMCLK/DBJ/GE	N/PRG/98507 WYu	SPo WYu
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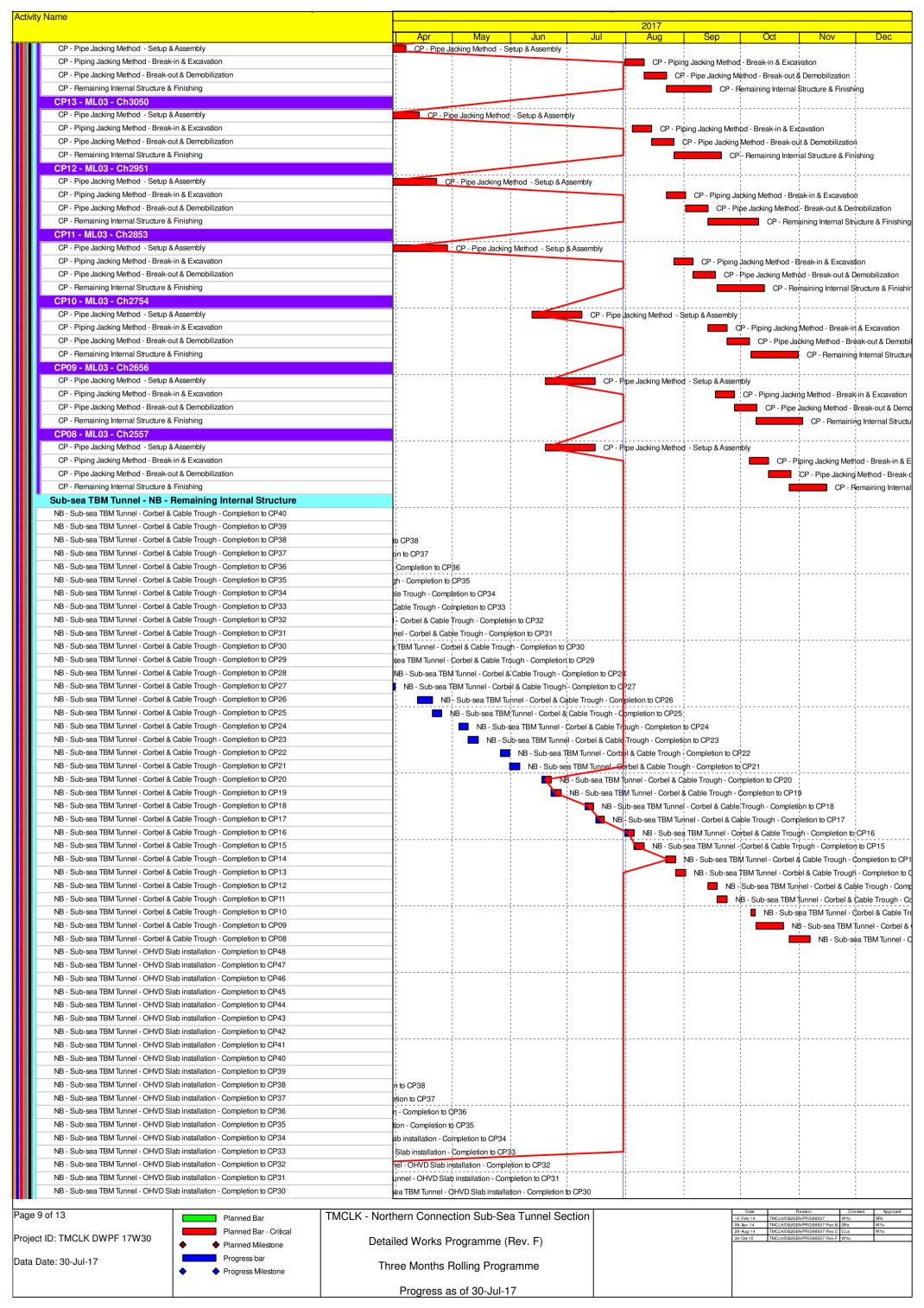


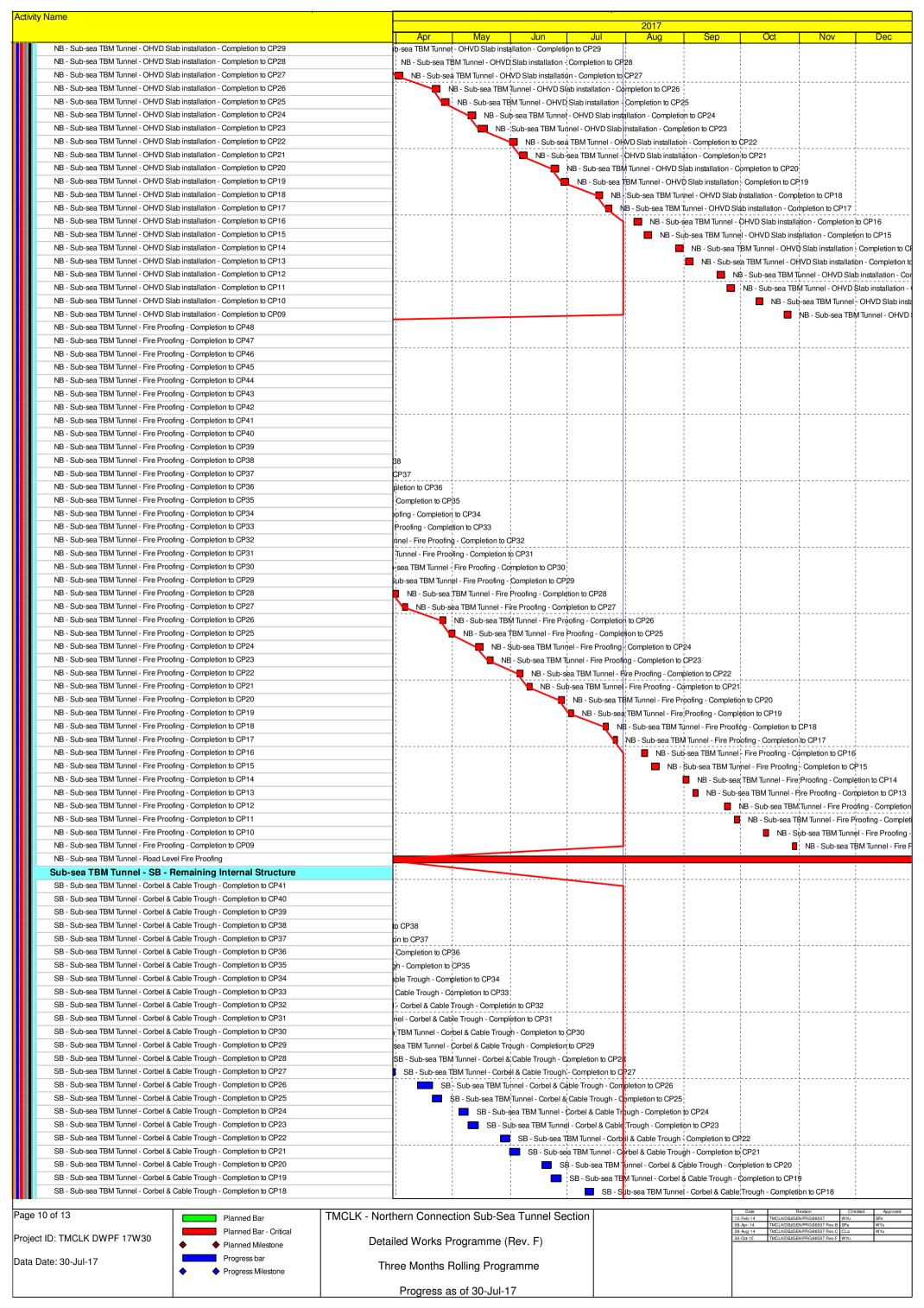
Activit	y Name									
	,	2017								
	NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3590 to 3460 - 130m)	Apr May Jun Jul Aug Sep Oct Nov Dec								
	NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3460 to 3360 - 100m)	MS silty with Trimix (Ch3460 to 3360 - 100m)								
	NB - Sub-sea TBM Tunnel - ALLUVIUMS sandy with Trimix (Ch3360 to 3160 - 200m)	ALLUVIUMS sandy with Trimix (Ch3360 to 3160 - 200m)								
	NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3160 to 3060 - 100m)	el - ALLUVIUMS silty with Trimix (Ch3160 to 3060 - 100m)								
	NB - Sub-sea TBM Tunnel - ALLUVIUMS silty with Trimix (Ch3060 to 2920 - 140m)	Tunnel - ALLUVIUMS silty with Trimix (Ch3060 to 2920 - 140m)								
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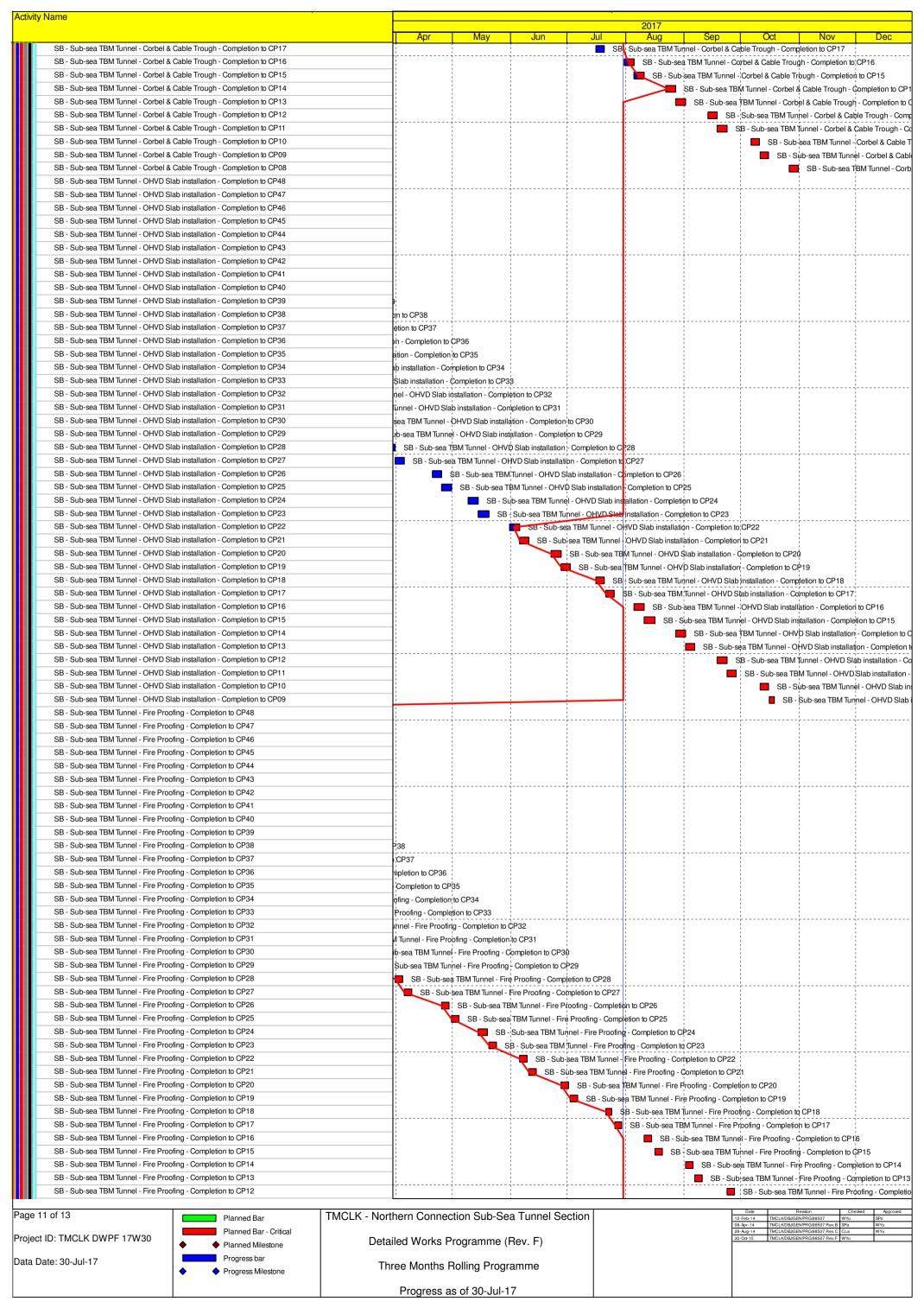


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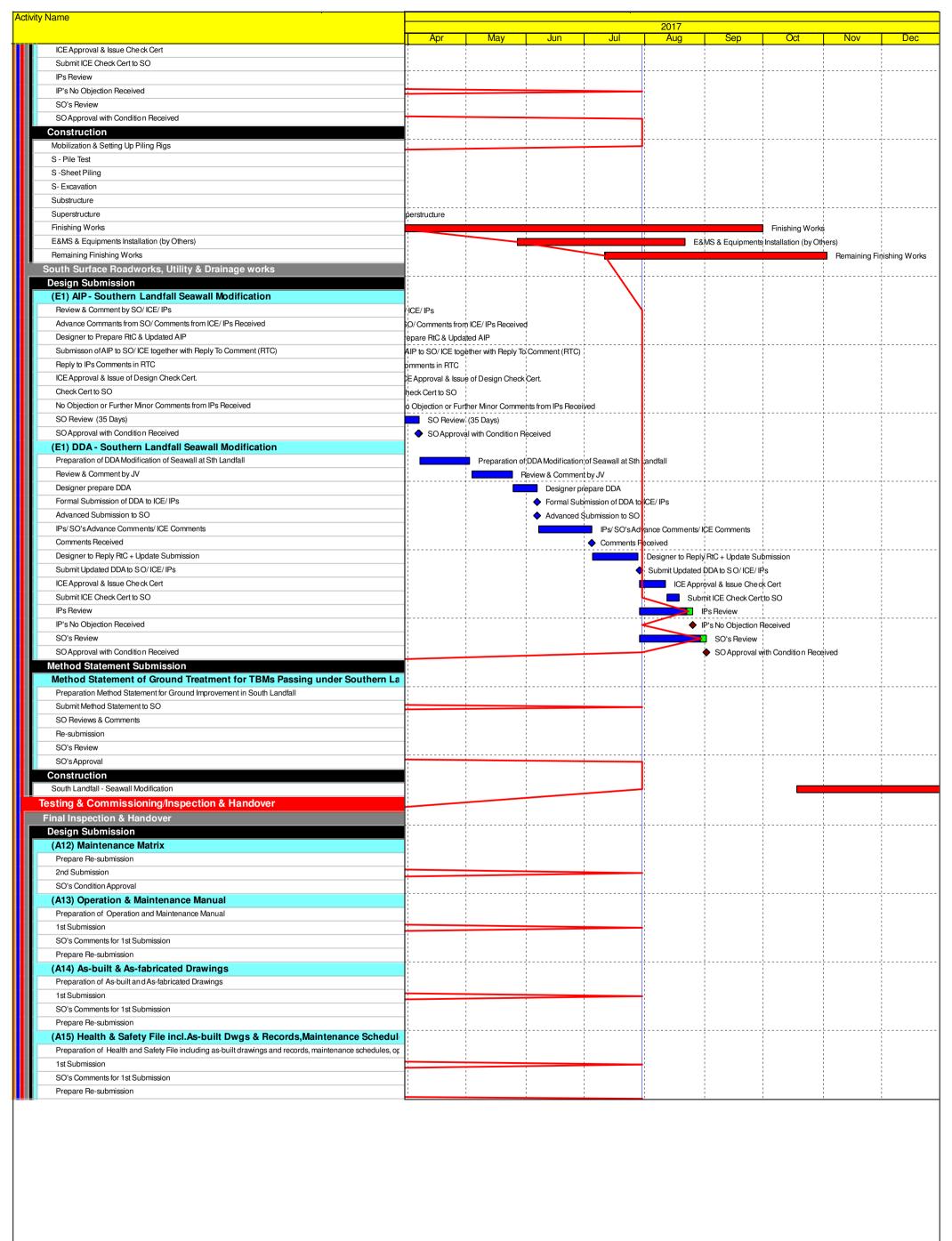
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				Progress as of 30-Jul-17				