



Schedule Of Common Lifts

CLN 5/6

LIFT PLAN REV: 20

8000.CLN5-HS-SCH-8001

	NAME	POSITION	SIGN	DATE
Prepared By	Adam Floyd-Dunne	J Coffey Appointed person	the	20-02-20
Reviewed By	Niall Beggan	J Coffey Safety Officer	J.C.	20/02/2020
Reviewed By	Neil Critchley	Mace Lifting Operations Manager	Michiely	21.02.2020
				9.30AM.

J Coffey: Schedule of common lifts.





00	16/03/2019	First revision	KOC
01	19/03/2019	Additional Information added	KOC
02	02/05/2019	Revised	KOC
03	17/05/2019	Revised	KOC
04	20/05/2019	Revised	KOC
05	29/05/2019	Revised	KOC
06	31/05/2019	Revised	KOC
07	21/06/2019	Revised	KOC
08	10/07/2019	Revised	KOC
09	16/07/2019	Revised	KOC
10	22/08/2019	Revised jc 66-75	KOC
11	18/09/2019	Revised jc 67 spreader beam	KOC
12	18/09/2019	Revised jc 77-79	KOC
13	08/10/2019	Revised	KOC
14	30/10/2019	Revised jc 79-82	KOC
15	04/11/2019	Revised jc 01 + 30 + 83-87	KOC
16	07/11/2019	Revised jc 88	KOC
17	03/01/2020	Revised jc 75-87-88-90-91	AFD
18	16/01/2020	Revised jc 92	AFD
19	11/02/2020	Revised jc 93	AFD
20	20/02/2020	Revised jc 94	AFD
£			
	X		





REF JC 94/ IN CONJUNCTION WITH 8000.CLN5-C-TW-8023-REV02

A PULL TEST WILL BE CARRIED OUT BY HOISTECH ON THE FIRST LID CAST AND ENGINEER REPORT AVAILABLE FOR EVERY LID MADE PER DESIGN PRIOR TO LIFT



NOTE: IF YOU CHOKE A CHAIN OR WEBBING SLING YOU MUST DE-RATE BY 20% AND ONLY USE CHAINS FROM 0-90 DEGREES

LOAD TYPE	PRECAST COVER SLABS
WEIGHT	7958 KGS MAX
Lifting Accessories	1 X 4 LEG 11.2T SWL 4M CHAINS 4 X 10T LIFT CLUTCH
Ancillary Equipment	2 X TAG LINES ON OPPOSITE CORNERS OF SUITABLE LENGTH / KNOT & LOOP FREE
Slinging Method	4 POINT LIFT ALWAYS USING DESIGNATED LIFTING POINTS
Alternative	NONE
Safety Restrictions	Ensure all lifting equipment has current test cert and is correctly colour coded, visually inspect for damage prior to every use.

NOTE: LIFTING EQUIPMENT TO BE UTILISED AT MAX 80%, IF THIS IS EXCEEDED PLEASE CHECK WITH A.P BEFORE LIFTING OPERATION IS CARRIED OUT !!!

J Coffey. Schedule of common lifts

8000.CLN5-C-TW-8023 - Rev 02

1000.CLN5-G-FORM-0017

Temporary Works Design Certificate - Rev 01

(to be completed by the Temporary Works Designer, Permanent Works Designar(s) Trade Contractor Tomp Works Coordinator & the PSDP)

Project: Facebook CL	N5/6- Clonee	Certificate Reference Number: B1613-C13-TWDC						
Element of Temporary works to which this certificate applies:	[†] Pumping station co	ver slab lifti	ng eyes					
Datall design codes adopted or complied with for these temporary works;	IS EN 1990 IS EN 1991							
Reference numbers for calculations: completed & checked:	B1613-C13-Summary							
Drawings Numbers: completed & checked:	B1613-C13-SK01							
Provide the assumed construction sequence required by the Temp Works Design:								
Requirements for Temporary stability: Propping, bearing, Bracing, loading:	per control of the co		Fully detailed on Additional Inform		χэ	Ño		
Have provided the PSD Have cooperated with the Size of the PSD	nd Welfere at Work Act, 2005 and the General Principles of Preventi P and PSCS as appropriate with the PSDP and PSCS and with other	ion and any existir all relevant inform ar Dosignors, as n	ng Sefety File; ation as required b	y the Regul	allons; ar	(34.50000. 4 0)		
Namo: FLAVIO NATALE	77 27 - 52	Organisation	: BYRNELOOBY					
Data:27.01.2020								
I certify that I have independen	tly checked the above design a	nd drawings						
Checking Category:(per BS5979	5) 1		ition: BYRNELOC					
Name: Orthon	19		tions: DER		11/2	l'		
Contract of the Contract of th		Date:	21-1-20					
Permanent Works Designe We hereby confirm that we have our pormanent works design can be Healthand Welfare at Work Act, 20	communicated our design assum the constructed to be safe and with	out risk to health	n accordance with	Section 17	of the Sa			
Signed:	For & on bel	nalf of the Perman	ent Works Design	er.		Date		
Trade Contractor Tempora	ry Works Coordinator	12000						
Signed: Can' By								
Namo: CIMRAF /	BIRMINGHAM	Date:	28/1/2	020				
	ed the activities of the Designars s of Provantian and with due regai aporary Works may proceed, su	d to our duties as bject to the prov	PSDP under the Sision of a Tempo	Safety, Healt rary Works	h and W Mothod	elfare		
Signed:	eed by the Contractor, Tempora For & on bel	ry Works Erectonall of the PSDP:	r and PSCS as bo	ing adequa		Date:		
Scott Addis	The secretary in the second se	200		19/2/20				



TEMPORARY WORKS DESIGN BRIEF

Reference Number

Contract Name:	Facebook CLN 5/6
Temporary Works Co-ordinator:	Ciaran Birmingham
Design Brief prepared by:	Ciaran Birmingham
Date:	07/01/2020

Section of Works:-

Pumping station cover slab lifting eyes

Design Scope including responsibilities

Check the capacity of the lifting eyes for the heaviest cover slab is appropriate. Chech the shear capacity of the cover slab is appropriate and advise if extra shear reinforcement is required.

Design deliverables

Calculations and GA drawing/sketch. Temporary works design certificate for same.

Design Notes :

Grundfos data booklet (see page 40-41 as basis of design). Bar bending schedule and drawing has been sketched up based on this.

Information provided:

Grundfos data booklet (see page 40-41 as basis of design). Bar bending schedule and drawing has been sketched up based on this.

Dates required							
Design issue for construction	10/01/2020						
Base drilling							
Start of base construction	13/01/2020						
Crane Erection dates							

Check certification required								
Category I, II or III check	Category 1							
Railtrack Form 3 requirement	N/A for Ireland							
Other requirements (ie Highways AIP)								

Guidance on the use of this form is provided in the Mace Temporary Works Procedure MP-ENG-PR-101





For vertical plates the possibility that a horizontal break out can occur must be taken into account. Here also the present vertical reinforcement has no effect for the anchoring force. The situation in the figure will become very critical if the thickness of the element is smaller than half the thickness of the chosen T-Slotanchor. In this situation an additional discussion with "Terwa" is necessary.

Picture 10

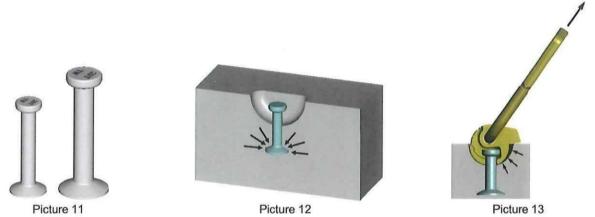
To enlarge the vertical anchoring a hairpin can be adjusted which falls around the foot. In this situation it is also very helpful to use the TKA-Tilt Slot-anchor, an eye anchor or a rod anchor. With these lifting anchors the anchoring is obtained by a reinforcement hairpin through the eye of the anchor or by a ribbed rod.

CHARACTERISTICS

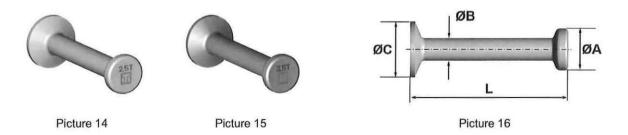
T SLOT ANCHOR

BASIC PRINCIPLES FOR THE ANCHOR SELECTION

The T Anchors (picture 11) are forged from round steel and are designed to a load force in the range of 1,3t to 45,0t. Proper for large precast elements such as slabs, beams, panels, pipes. Anchors from 1,3t to 32,0t are made from S355J2 steel and the 45,0t anchors are made from alloyed steel 42CrMo4 (w1.7225-EN-10083-1). In the same load group, anchors are available with different lengths. Longer anchors are installed for reduced edge spacing or for low concrete strengths. The load on the anchor is transmitted to the concrete through the anchor foot (picture 12).



The anchors must be fixed in the mould using recess formers. The recess former retains the anchor securely in position during the concrete pour. The recess former creates a void around the anchor head which corresponds to the lifting system head (shackle). The incorrect coupling of parts of different load groups is impossible. Another advantage is that the shackle rests against the concrete during angled pull and therefore the horizontal load is transferred into the concrete directly (picture 13). For this reason additional reinforcement is not required in large units. In thin walls, additional reinforcement is necessary for angled lift, to absorb the transverse pulling forces.





TECHNICAL MANUAL - 3D SYSTEM

3D-VERSION 08-2013

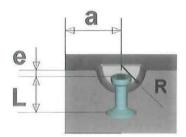
T slot star	ndard	T slot - hot galvanize	2002331	T slot - electroly plated	/tic zinc	T slot stainless	steel	Load group	L	ØA	ØB	ØС	Weight
Description	Prod. No.	Description	Prod. No.	Description	Prod. No.	Description	Prod. No.	t	mm	mm	mm	mm	[kg/pc]
T-075-0165	43251	T-075-0165-TV	43252	T-075-0165-EV	1	T-075-0165-SS2	1	7,5	165	46	24	60	0,857
T-075-0170	43253	T-075-0170-TV	43974	T-075-0170-EV	1	T-075-0170-SS2	1	7,5	170	46	24	60	0,875
T-075-0200	43254	T-075-0200-TV	43255	T-075-0200-EV	1	T-075-0200-SS2	1	7,5	200	46	24	60	0,981
T-075-0240	44963	T-075-0240-TV	44964	T-075-0240-EV	1	T-075-0240-SS2	1	7,5	240	46	24	60	1,123
T-075-0300	43256	T-075-0300-TV	43257	T-075-0300-EV	1	T-075-0300-SS2	43258	7,5	300	46	24	60	1,336
T-075-0540	43259	T-075-0540-TV	43260	T-075-0540-EV	1	T-075-0540-SS2	1	7,5	540	46	24	60	2,192
T-075-0680	43843	T-075-0680-TV	43844	T-075-0680-EV	1	T-075-0680-SS2	1	7,5	680	46	24	60	2,690
T-100-0085	43261	T-100-0085-TV	43262	T-100-0085-EV	17	T-100-0085-SS2	1	10,0	85	46	28	70	0,714
T-100-0090	1	T-100-0090-TV	43263	T-100-0090-EV	1	T-100-0090-SS2	1	10,0	90	46	28	70	0,765
T-100-0100	43264	T-100-0100-TV	43845	T-100-0100-EV	1	T-100-0100-SS2	1	10,0	100	46	28	70	0,815
T-100-0110	43265	T-100-0110-TV	46269	T-100-0110-EV	1	T-100-0110-SS2	1	10,0	110	46	28	70	0,863
T-100-0115	43266		43267	T-100-0115-EV	47418	T-100-0115-SS2	43268	10,0	115	46	28	70	0,887
T-100-0120		T-100-0120-TV	Assessment .	T-100-0120-EV		T-100-0120-552	VIV	10,0	120	46	28	70	0,910
T-100-0135	43271	AN ADDRESS OF CHARLES	MC de Mis	T-100-0135-EV	47419	T-100-0135-SS2	1	10,0	135	46	28	70	0,984
T-100-0140		T-100-0140-T-V	102,12	T-100-0440 EV	1/1	T-100/0140-SS2	\	10.0	140	1461	28	170	1,007
T-100-0150		T-100-0150-TV	43274	T-100-0150-EV	47420		1	10,0	150	46	28	70	1,056
T-100-0170		T-100-0170-TV	43276	AND WESTER SECTION OF ACCUS	47421	T-100-0170-SS2	43277	10,0	170	46	28	70	1,153
T-100-0170	- 000	T-100-0200-TV	44965	T-100-0200-EV	1	T-100-0200-SS2	1	10,0	200	46	28	70	1,298
T-100-0200		T-100-0220-TV		T-100-0220-EV	1	T-100-0220-SS2	1	10,0	220	46	28	70	1,395
T-100-0250	43279	T-100-0250-TV	43280	T-100-0250-EV	',	T-100-0250-SS2	1	10,0	250	46	28	70	1,540
T-100-0230	43281	T-100-0230-TV	43282	T-100-0340-EV	1	T-100-0340-SS2	43283	10,0	340	46	28	70	1,974
T-100-0500		T-100-0500-TV	1	T-100-0500-EV	,	T-100-0540-SS2	/	10,0	500	46	28	70	2,748
T-100-0540		T-100-0540-TV	1	T-100-0500-EV	',	T-100-0540-SS2	1	10,0	540	46	28	70	2,940
T-100-0540		T-100-0540-TV	43850	T-100-0540-EV	1	T-100-0540-552	1	10,0	650	46	28	70	3,473
T-100-0680	0.72252	T-100-0680-TV	43286	T-100-0680-EV	',	T-100-0680-SS2	1	10,0	680	46	28	70	3,315
T-100-0880		T-100-080-TV	43200	T-100-0080-EV	1	T-100-0000-332	,	10,0	1300	46	28	70	6,615
		1 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	-	A 80.937 October 071.0			1		140	1703/88	38	80	1,992
T-150-0140	i	T-150-0140-TV	43852	T-150-0140-EV		T-150-0140-SS2		15,0		70	etaga.	80	1.12072
T-150-0150	LONG THE	T-150-0150-TV	0.00510.0	T-150-0150-EV	47400	T-150-0150-SS2	1	15,0	150	70	38		2,080
T-150-0165		T-150-0165-TV		T-150-0165-EV		T-150-0165-SS2	1	15,0	165	70	38	80	2,214
T-150-0170		T-150-0170-TV		T-150-0170-EV		T-150-0170-SS2		15,0	170	70	38	80	2,258
T-150-0200		T-150-0200-TV		T-150-0200-EV		T-150-0200-SS2	1	15,0	200	70	38	80	2,526
T-150-0210	0 000000000	T-150-0210-TV	2307720032	T-150-0210-EV	/	T-150-0210-SS2	1	15,0	210	70	38	80	2,615
T-150-0300		T-150-0300-TV		T-150-0300-EV		T-150-0300-SS2	1	15,0	300	70	38	80	3,416
T-150-0400		T-150-0400-TV		T-150-0400-EV	/	T-150-0400-SS2	/	15,0	400	70	38	80	4,306
T-150-0840		T-150-0840-TV		T-150-0840-EV		T-150-0840-SS2	1	15,0	840	70	38	80	8,223
T-200-0100	V 27425	T-200-0100-TV	/	T-200-0100-EV	/	T-200-0100-SS2	1	20,0	100	70	40	98	1,965
T-200-0165		T-200-0165-TV	43297	T-200-0165-EV		T-200-0165-SS2	/	20,0	165	70	40	98	2,606
T-200-0170		T-200-0170-TV	1	T-200-0170-EV	1	T-200-0170-SS2	1	20,0	170	70	40	98	2,655
T-200-0200		T-200-0200-TV	44966	T-200-0200-EV		T-200-0200-SS2	1	20,0	200	70	40	98	2,951
T-200-0240	The state of the s	T-200-0240-TV	1	T-200-0240-EV	100	T-200-0240-SS2	1	20,0	240	70	40	98	3,346
T-200-0250	43299	T-200-0250-TV		T-200-0250-EV	1	T-200-0250-SS2	1	20,0	250	70	40	98	3,445
T-200-0340	43301	T-200-0340-TV	43302	T-200-0340-EV	1	T-200-0340-SS2	1	20,0	340	70	40	98	4,332
T-200-0500	43303	T-200-0500-TV	43304	T-200-0500-EV	1	T-200-0500-SS2	-1	20,0	500	70	40	98	5,911
T-200-1000	43305	T-200-1000-TV	43515	T-200-1000-EV	1	T-200-1000-SS2	1	20,0	1000	70	40	98	10,843
T-320-0175	47391	T-320-0175-TV	1	T-320-0175-EV	1	T-320-0175-SS2	1	32,0	175	88	50	135	5,419

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alterations reserved 03/20/2013 Page 13



T-SLOT-ANCHOR ARRANGEMENT



Picture 17

L = anchor length

a = edge distance

e = cover to anchor head

R = recess radius

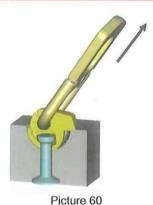
For slab units or de-mould of panels the edge distance of the "T" anchor (a) is: $a = 3 \times (L + e)$

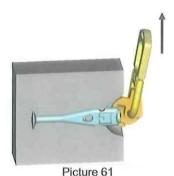
Table 9

Type T Slot	Load Group	"L"	"R"	"e"	"a"
Description	[t]	[mm]	[mm]	[mm]	[mm]
T-013-0120	1,3	120	30	10	390
T-013-0240	1,3	240	30	10	390
T-025-0140	2,5	140	37	11	540
T-025-0170	2,5	170	37	11	540
T-025-0210	2,5	210	37	11	540
T-025-0280	2,5	280	37	11	540
T-050-0180	5,0	180	47	15	765
Γ-050-0210	5,0	210	47	15	765
T-050-0240	5,0	240	47	15	765
T-050-0340	5,0	340	47	15	765
T-050-0480	5,0	480	47	15	765
T-075-0300	7,5	300	59	15	945
T-075-0540	7,5	540	59	15	945
T-075-0680	7,5	680	59	15	945
Т-100-0250	10,0	250	59	15	1100
T-100-0340	10,0	340	59	15	1100
Г-100-0500	10,0	500	59	15	1100
Г-100-0540	10,0	540	59	15	1100
Γ-100-0650	10,0	650	59	15	1100
Γ-100-0680	10,0	680	59	15	1100
Γ-150-0300	15,0	300	80	15	1250
Γ-150-0400	15,0	400	80	15	1250
Γ-150-0840	15,0	840	80	15	1250
Γ-200-0340	20,0	340	80	15	1550
Γ-200-0500	20,0	500	80	15	1550
Γ-200-1000	20,0	1000	80	15	1550
Г-320-0500	32,0	500	102	23	2150
Г-320-0700	32,0	700	102	23	2150
Г-320-1200	32,0	1200	102	23	2150
T-450-0500	45,0	500	102	23	2400
Г-450-0700	45,0	700	102	23	2400
Γ-450-1200	45,0	1200	102	23	2400

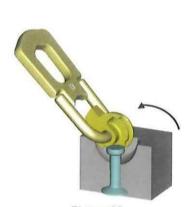
Note: values in the table above for distance to the edge are valid for unreinforced concrete elements. The distance to the edge can be reduced in reinforced concrete units.







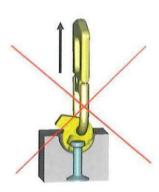
When pitching the concrete unit with the 3D Lifting System, the nose must be in the same direction with the load (picture 61). Due to the counterweight of the nose, the shackle remains connected, even in an unloaded state. To release the 3D Lifting System, the load hook is lowered and the shackle is turned up and out (picture 62 and picture 63). Only after the Lifting System is completely detached of the recess and anchor, the crane can be withdrawn. The 3D lifting System can remain attached to the crane hook till another use.







Picture 63

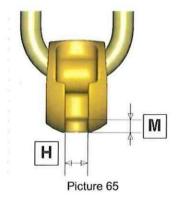


If the shackle remains in the position showed above, the lifting of the concrete unit is not possible.

Picture 64

3D LIFTING SYSTEM MAINTENANCE

In common with all lifting devices, the lifting system TH2, THR2 must be checked at least twice a year by trained personnel. Any defects found should be corrected before use. It is important to determine the amount of wear. The lettering and identification of the lifting system must be visible. If the shackle is deformed or the mouth opening is enlarged, the 3D Lifting System must be taken out of use and cannot be repaired. If the limiting dimensions given in the table 32 and table 33 are exceeded for "H" or fall below for "M" a further use of the Lifting System is not safe. Repairs, especially welding operations to the Lifting System are strictly forbidden. Do not combine our products with accessories from other manufacturers.





Picture 66

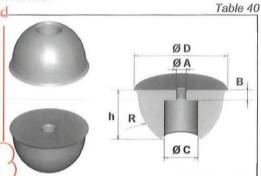


SBK - STEEL RECESS FORMER

The SBK recess former is made of steel S355JO and is used in combination with T slot anchor, O anchor, TPA anchor, TKS anchor and TSG anchor. When these anchors are used a rubber ring RR should be fitted as well. These recess formers are mostly applied in an upside down position.

This rubber former

will be used Round steel recess former Load ØA ØC ØD R В h SBK group Description Product no. [1] [mm] [mm] [mm] [mm] [mm] [mm] SBK-013 44404 1,3 M 12 11 19,9 63 36 32 SBK-025 45855 2,5 M 12 11 26,9 80 43,5 69 SBK-050 45856 5,0 M 12 36,9 65 SBK-100 45857 10,0 M 16 47,1 72 80 15 129



SBKM - STEEL RECESS FORMER WITH MAGNET

The SBKM recess former is made of stainless steel W 1.4305 EN 10088 and is used in combination with T slot anchor, O anchor, TPA anchor, TKS anchor and TSG anchor. When these anchors are used a rubber ring RR should be fitted as well. These recess formers are mostly applied in an upside down position.

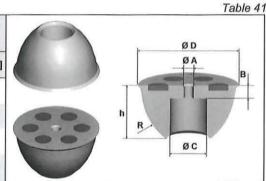
Round steel recess former Load ØA В ØC ØD h R SBKM group Description Product no. [t] [mm] [mm] [mm] [mm] [mm] [mm] SBKM-013 48722 1,3 M 12 11 20 66.5 36 32 SBKM-025 48723 30 43,5 69 2,5 M 12 11 80 SBKM-050 48724 5,0 M 12 13 37 100 54 65

M 16

15

48

10,0



RR - RUBBER RING

SBKM-100

48725

The rubber ring is used when a T slot anchor, O anchor, TPA anchor, TKS anchor and TSG anchor is fitted in a SBK or a SBKM steel recess former.

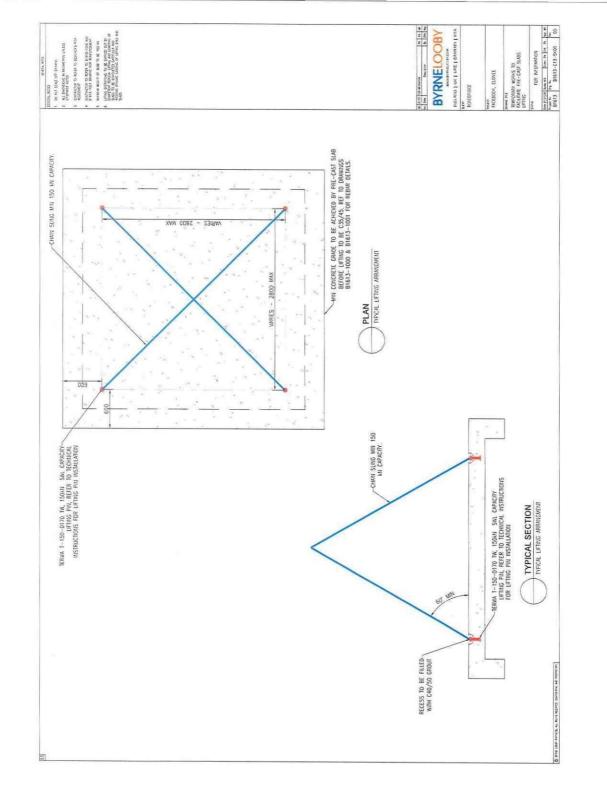
72

80

129

Table 42

Rubber rin	g RR	Load	D	d	t		
Description	Product no.	[t]	[mm]	[mm]	[mm]		
RR-013	43966	1,3	21	10	11		ØD Ød
RR-025	43967	2,5	31	14	12	THE INC.	
RR-040/050	43968	5,0	38	20	14		The state of the s
RR-075	43813	7,5	49	24	20		
RR-100	43969	10,0	49	28	20		

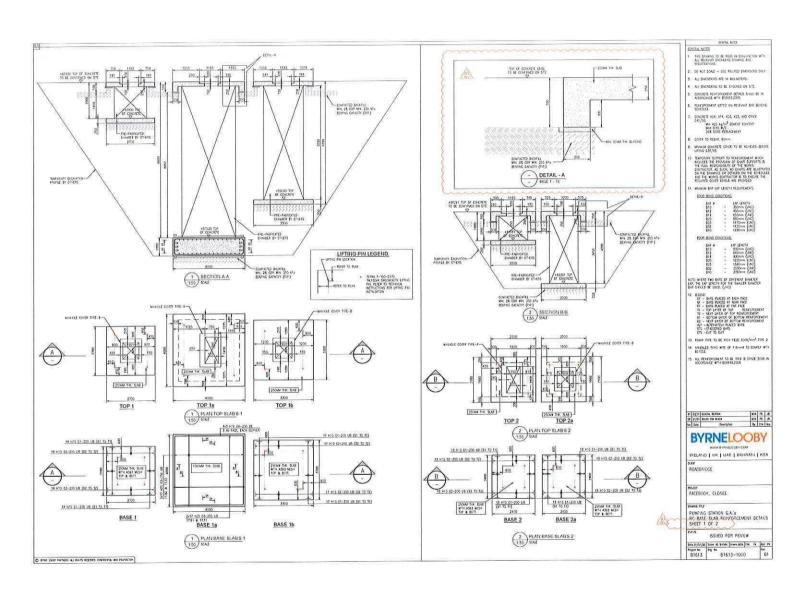






Proj _{Engine}	ect Risk Assessm ers Ireland	ent of S&H ho	azards / risk								
Desig	gner's assessment of so	afety and health he	azards / risks		No. V.	13 TE 10					
	t: FACEBOOK, CLONEE AST SLABS LIFTING			Designer: FN	Date:	27.01.2020					
	o: B1613-C13-DRA			Checker: Sheet No: Signed:							
Design	n Phase (Concept; Prelimina	ary; Detailed or Redes	sign): Detailed	191911911							
Note: re	eview previous phase b/f items										
No.	Key construction hazards	(or risks) identified	Evaluations. Design (or alternative actio								
1	Impact loads/lateral loa	.ds.		Slabs not designed to accommodate any impact load or lateral load. Contractor to impose measures to avoid lateral loads.							
2	Unsuitable concrete grad	de and cover.	Concrete strength t in the sketch provid	to be achieved by concrete l ded.	before lifting to	o be as per specified					
3	Unsuitable lifting operati	ions.	Lifting operations to be carried out carefully and avoiding dynamic load on the slabs or lifting eyes. Lifting operator to be a competent trained person.								
4	Unsuitable chain sling.		Chain sling capac	ity and layout to be as per s	pecified in the	drawing provided.					
5	Unsuitable lifting eyes.		Lifting pins to be as per specified in the drawing provided. Installation of lifting pin to be as per technical specification by pin supplier.								
6											
7											
8											
9											
	providing info.	Item Nos. (from above)		Remarks	STATISTICS.						
77075	r client's designer										
	zards particular risks	01-08		Risk to be managed by	contractor.						
_	her particular risks										
	assumed construction										
nethods For	s safety file										
-	nouse: b/f to future stages										
		1 1 1 1				y 10 17					

Other parties please take note: These are designer's risk evaluations of design options carried out in-house for the purpose of our complying with designer' duties under the Safety, Health and Welfare at Work (Construction) Regulations 2006-2013, CDM2015 CDM2016 N.I. or other legislative EHS requirements. The evaluations relate only to those aspects / elements of the project which we are responsible for designing under the terms of our appointment by our client. Other Parties should not rely on these evaluations for their own purposes; in particular, contractors, who must deal with and control risk arising during construction, must carry out their own definitive risk assessment ab initio for that purpose





Site ref: PUMPING STATION G.A.'s

Project: FACEBOOK, CLONEE Schedule ref: B1613-1000

Job no:

B1613

01

01 Rev:

Status: ISSUED FOR REVIEW

Re rei: Po				r. s RCEME	NT DET	TAILS			e prepared	: 21/01/20			Date modified	1: 23/0	1/20
Subject: SI	HEET 1 C	OF 2							pared by :	MON			Checked by		
Member	Bar Mark	Type and Size	No. of mbrs	No. of bars in each	Total no.	Length of each bar † mm	Shape code	A * mm F*	B * mm G*	C* mm H*	D * mm I*	E/R * mm J*	Shape	Weight (kg)	Re
BASE I	01	H10	ĺ	28	28	900	21	400	130	(400)) (C)	15.55	
	02	H10	1	28	28	875	21	400	110	(400)			, (c)	15.12	
BASE 1a	03	H25	1	68	68	5350	21	800	3880	(800)			A (C)	1400.63	
	04	H16	1	12	12	4475	11	2250	(2250)				↑ ↑ ↓ (B)	84.85	
BASE 1b	01	H10	1	34	34	900	21	400	130	(400)			(C)	18.88	
	02	H10	1	34	34	875	21	400	110	(400)			<u></u>	18.36	
BASE 2	01	H10	1	26	26	900	21	400	130	(400)			↑(c;)	14.44	
	02	H10	1	26	26	875	21	400	110	(400)				14.04	
BASE 2a	01	H10	1	26	26	900	21	400	130	(400)			↑	14.44	
	02	H10	1	26	26	875	21	400	110	(400)) (C)	14.04	

This schedule complies with

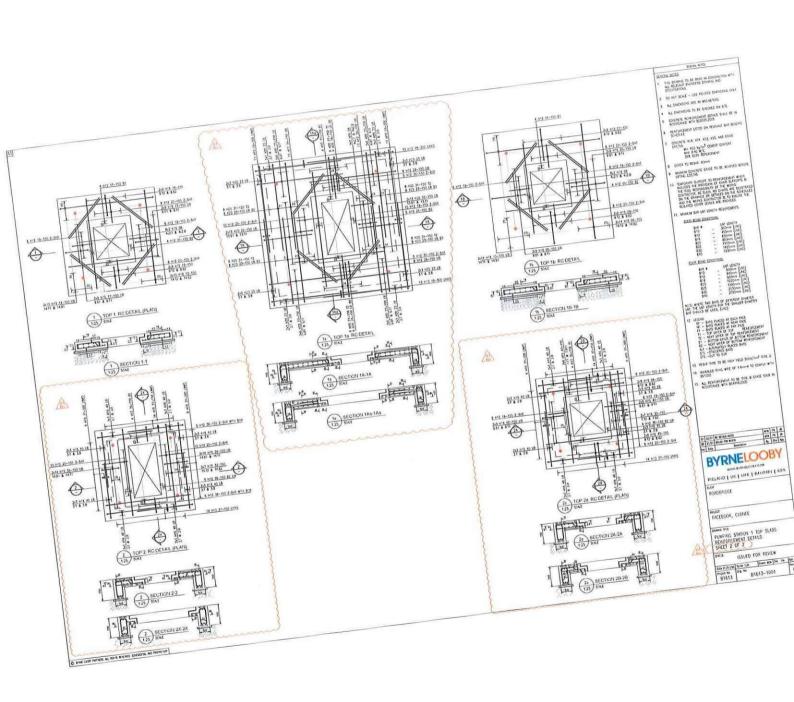
* Specified in multiples of 5mm

BS8666:2005

† Specified in multiples of 25mm.

Page Total 1610.35

Page 01 of 01





Site ref: PUMPING STATION 1 TOP SLABS

REINFORCEMENT DETAILS

Subject: SHEET 2 OF 2

Job no : Project:

Date prepared: 21/01/20

Schedule ref:

Prepared by:

B1613

MON

B1613-1001

FACEBOOK, CLONEE

Rev: 01

01 Status

Status: ISSUED FOR REVIEW

Date modified: 23/01/20

Checked by : FN

Member	Bar Mark	Type and Size	No. of mbrs	No. of bars in each	Total no.	Length of each bar † mm	Shape code	A * mm F*	B * mm G*	C * mm H*	D *	E/R * mm J*	Shape	Weight (kg)	Rev
TOP 1	08	H16	Ī	16	16	1400	00						_ ^ _	35.39	
	11	H12	1	8	8	2500	00							17.76	
	13	H16	1	20	20	2900	99	2580	130	(130)			tet tet	91.64	
	14	H16	1	20	20	2775	21	130	2580	(130)			, (C)	87.69	
	15	Н16	1	18	18	925	99	590	130	(130)			1B† (c)	26.31	
	16	H16	1	18	18	900	99	570	130	(130)			1at (c)	25.6	
	17	H16	1	36	36	825	21	130	630	(130)			^(C)	46.93	
	19	H12	1	12	12	650	26	300	150	(200)	130		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6.93	
	20	H12	1	12	12	675	26	300	120	(260)	95		10 10 10 10 10 10 10 10 10 10 10 10 10 1	7.19	
TOP 1a	08	H16	1	16	16	1400	00						□ ^ □	35.39	

This schedule complies with

BS8666:2005

Page Total 1363.56

H12

H10

H12

H20

H20

1

1

1

1

1

11

18

19

22

23

4

52

10

26

130

4

52

10

26

130

2500

1350

650

1525

2575

00

51

26

11

11

420

300

1350

2400

170

150

(220)

(220)

(130)

(200)

(130)

130

8.88

43.31

5.77

97.94

826.83

-(13)-

(13)-

1

^{*} Specified in multiples of 5mm



Site ref: PUMPING STATION 1 TOP SLABS

REINFORCEMENT DETAILS

Bar Type No. of No. of Total Length Shape

Job no: Project:

B1613

B1613-1001

FACEBOOK, CLONEE

02

Shape

01 Rev:

E/R *

Status: ISSUED FOR REVIEW

D *

Date modified: 23/01/20 Checked by

FN

Weight Rev

Subject: SHEET 2 OF 2

Member

Prepared by:

B *

Date prepared: 21/01/20

Schedule ref:

MON C *

	Mark	and Size	mbrs	bars in each	no.	of each bar† mm	code	F*	mm G*	mm H*	mm I*	mm J*		(kg)	
TOP Ia	24	H12	ī	26	26	1100	21	500	130	(500)			, (C)	25.4	
	25	H12	1	10	10	775	26	320	150	(320)	130		+ \ + \ 17	6.88	
	26	H12	1	5	5	3200	00						_ ^ _	14.21	
	27	H20	1	16	16	1100	35	435	260	260	50	(190)	D + c + + + +	43.47	
	28	H20	Ī	16	16	1125	11	950	(220)				<u></u>	44.46	
	29	H12	1	16	16	1050	13	500	90	(500)			Hermi-circular	14.92	
	30	H12	1	10	10	675	26	300	120	(260)	90		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.99	
	31	H20	1	34	34	2525	35	1870	260	260	50	(190)	D + + + +	212.05	
	32	H20	1	26	26	1375	11	1200	(220)				, (B)	88.3	
ТОР 1Ь	05	H16	1	36	36	1125	21	130	930	(130)			, (C)	63.99	
	06	H16	1	28	28	3500	99	3180	130	(130)			15 15	154.84	
	07	H16	1	18	18	1200	99	870	130	(130)			tBt fct	34.13	

This schedule complies with

BS8666:2005

Page Total 928.18

H16

H16

H16

1

1

16

18

28

16

18

28

1400

1225

3375

08

09

10

00

99

21

890

130

130

3180

(130)

(130)

35.39

34.84

149.31

^{*} Specified in multiples of 5mm



Site ref: PUMPING STATION 1 TOP SLABS

REINFORCEMENT DETAILS

Subject: SHEET 2 OF 2

Job no: B1613

Project: FACEBOOK, CLONEE

Schedule ref: B1613-1001 Date prepared: 21/01/20

Date prepared: 21/01/20 Date modified: 23/01/20
Prepared by: MON Checked by: FN

03

01

Status: ISSUED FOR REVIEW

Member Bar Type No. of No. of Total Length Shape A * B * C* D * E/R * Shape Weight Rev Mark and mbrs bars in of each code mm mm mm mm no. mm (kg) Size F# each bar † G* H* T# .1* mm TOP 1b 11 H12 1 8 8 2500 00 17.76 19 H12 12 12 650 1 26 300 150 (200)130 6.93 H12 20 1 12 12 675 26 300 120 (260)95 7.19 TOP 2 25 H12 1 20 20 775 320 150 (320)26 130 13.76 33 H16 1 14 14 2700 99 2380 130 (130)59.72 H16 28 34 1 28 825 21 130 625 (130)36.5 35 H16 1 28 28 675 21 130 475 (130)29.86 H12 36 1 4 4 2350 00 8.35 37 H10 1 44 44 1350 420 175 51 (130)(130)36.65 H12 10 38 1 10 650 34 205 120 (200)160 115 5.77 39 H12 5 5 2600 1 21 125 2380 (125)11.54 H16 40 1 48 48 1725 11 1525 (220)130.82 TOP 2a 19 H12 1 12 12 650 26 300 150 (200)130 6.93 20 H12 12 12 675 300 120 1 26 (260)95 7.19

This schedule complies with

BS8666:2005

Page Total 378.97

^{*} Specified in multiples of 5mm † Specified in multiples of 25mm.



Subject: SHEET 2 OF 2

Site ref: PUMPING STATION 1 TOP SLABS

REINFORCEMENT DETAILS

Job no: B1613

Project: FACEBOOK, CLONEE

B1613-1001

Schedule ref: Date prepared: 21/01/20

Prepared by: MON Date modified: 23/01/20 Checked by :

Rev:

Status: ISSUED FOR REVIEW

04

FN

01

Subject: 51									pared by :	MON			Checked by		
Member	Bar Mark	Type and Size	No. of mbrs	No. of bars in each	Total no.	Length of each bar † mm	Shape code	A * mm F*	B * mm G*	C * mm H*	D * mm I*	E/R * mm J*	Shape	Weight (kg)	Rev
TOP 2a	33	H16	1	14	14	2700	99	2380	130	(130)			1 ¹¹ † 1 ^c }	59.72	
	36	H12	1	8	8	2350	00						<u> </u>	16.69	
	37	H10	1	44	44	1350	51	420	175	(130)	(130)		(c)	36.65	
	40	H16	1	48	48	1725	11	1525	(220)				Â-(13)	130.82	
	41	H16	1	18	18	650	21	130	455	(130)			↑ (G)	18.49	
	42	H16	1	18	18	800	21	130	605	(130)			1 (c)	22.75	
	43	H16	1	12	12	2575	21	130	2380	(130)				48.82	
	44	H16	1	16	16	800	99	470	130	(130)			↑	20.22	
	45	H16	1	16	16	825	99	490	130	(130)			1 ¹³ † f° †	20.86	
													į.		
													D T	ena Nesavin	

* Specified in multiples of 5mm