P21-024 Calder Park

Drawing Register: PRP

Works Completed: Engineers

Final Drawings

Drawing No.	Drawing Title	Rev
P21024-PRP-BR-00-DR-S-0201	Foundations Layout	C8
P21024-PRP-BR-00-DR-S-0202	Foundations - Slab and Foundations for Office	C5
P21024-PRP-BR-00-DR-S-0203	Foundations - Slab and Foundations Details	C4
P21024-PRP-BR-00-DR-S-0204	Foundations - Docking and Yard Office Details	C4
P21024-PRP-BR-00-DR-S-0205	Foundations Revolving Door Recess Detail Curtain Edging Detail	C3
P21024-PRP-BR-00-DR-S-0207	Foundations Sprinkler Tank Slab	C1
P21024-PRP-BR-00-DR-S-0209	Unit 1 Meter Termination Cubicle Pit	C2
P21024-PRP-BR-00-DR-S-0210	Foundations Layout	C2
P21024-PRP-BR-00-DR-S-0220	Gatehouse Slab	C2
P21024-PRP-BR-00-DR-S-0221	Gatehouse Reinforcement	C2
P21024-PRP-BR-00-SH-S-0212	Bar bending schedule	C2
P21024-PRP-EX-00-DR-C-0101	Drainage Layout	C8
P21024-PRP-EX-00-DR-C-0102	Drainage Construction Details	C2
P21024-PRP-EX-00-DR-C-0103	Proposed Site Accesses Drainage Layout & Details	C3
P21024-PRP-EX-00-DR-C-0110	External Works	C3
P21024-PRP-EX-00-DR-C-0111	External Works Construction Details	C4
P21024-PRP-EX-00-DR-C-0113	External Works Ramp Retaining Wall	C2
P21024-PRP-EX-00-DR-C-0115	External Works Yard & Footpath Slab Joint Layout Sheet 1 of 2	C3
P21024-PRP-EX-00-DR-C-0116	External Works Yard & Footpath Slab Joint Layout & Details - Sheet 2 of 2	C2
P21024-PRP-EX-00-DR-C-0117	Proposed Site Accesses Layout & Details	C3



21	8000	8000	8000	8000	8000	8000	8000	8000	8000
6, 10	PB_70	Я 40 РВ0	PB TO	х ар РВ 70	PB 70	PB TO	PB TO	Я 90 РВ 10	PB_70
	G [√] [∧] [∧]								
		A PAD				E CAN		200	
		NOTE: Vibro Imp undertake Plate sub PRP have assume RC40 concrete	rovement by Specialis bearing test to confirm grade reaction (k-value ed a k=0.05 to allow fo slab which should pro	t. Contractor to m modulus of e). r a 200mm thick vide 50kN/m ²				Hatch are	a with racking with 130
		imposed IF k-value found contractor to await	loading and 10T rackir less than 0.05 PRP to further instruction for floor slab	ng load. be notified and the design of the				Final de	ab thickness to increas pproximately 230mm. etailed design by floor specialist
						Unit 1 FFL: 27.(
						20 → 1 → 1 → 1 → 1 → 1 → 1 → 1 → 1			
		PAS		R R R R R R R R R R R R R R R R R R R		4603		242 ³¹	
							۵ ۵ ۵		
							1350 x 1350mr (TOE -1200) wi	n pad under stairs	
	A A	Size and Size and 	d position of dock level onfirmed by manufactu	ers to be rer		GB02	manhole rings stairs (A193 m GB02	o support btm of esh)	√ -1175
B.0120			200 -12		200 ~~~	-1200 -12 GB01 GB		<-1200> ~	-1200
			Platform a	nd staircase	6345 Braced	CB02 PD PD PD PD PD PD PD PD PD PD PD PD PD			orm and staircase
+ + + + + + + + + + +	750	x 600dp	Strip foundati confirmed follov precast concrete	to yard slab on width to be ving receipt of retaining wall	FFL -1600 00 00 00 00 00 00 00 00 00			F to ya L -1600	rd slab
	four	idation	details P21024-PRP-BR-00-E	. See drawing DR-S-0204 for details	TOF FFL -1600 PPD	(-1600) (1600) (160)		-1600 -1600	ete slab with mesh on top
	 		<u> </u>					 	
	8000	8000	8000 / -	8000	8000 12425	5575 55	75 2425	8000 - 1 -	8000 - -
					FC	oundati	on Pla	n	
		Top of Fou	ndation (TOF) Genera unless noted otherv -3 / A-L Office TOE-E	ally FFL - 350mm vise. FL-450mm u n o		1:25	0		РВ
		ALL DE ARCHITECT	RAWINGS AND SETT	ING OUT TO					LJ IJ CJ
		CS2 tapp	bed and sealed gas me slab	embrane under					Slab joints show be coordinated
		GBP =	150kN/m² subject to Improvement	Vibro Ground					



Contraction Joint

nown indicatively. Final positions to red with racking layout, if available

		Pad	Foundat	ions
	Туре	Size - column: . LG x WD x DP (m)	Concrete	Reinforcement
	Pad 1	1.50 x 1.30 x 0.60	RC30	A193 Mesh top and bottom
	Pad 2	1.30 x 1.20 x 0.60	RC30	A252 Mesh top and bottom
	Pad 3	1.30 x 1.30 x 0.60	RC30	A252 Mesh top and bottom
/	Pad 4	1.45 x 1.45 x 0.60	RC30	A193 Mesh top and bottom
	Pad 5	1.75 x 1.75 x 0.60	RC30	A393 Mesh top and bottom
	Pad 6	1.85 x 1.85 x 0.60	RC30	A393 Mesh top and bottom
	Pad 7	1.90 x 1.90 x 0.60	RC30	A193 Mesh top and bottom
	Pad 8	2.10 x 2.10 x 0.60	RC30	A193 Mesh top and bottom
	Pad 9	2.10 x 2.10 x 0.60	RC30	2 Layers A393 Mesh bottom and 1 layer top
	Pad 10	2.15 x 2.15 x 0.60	RC30	A193 Mesh top and bottom
	Pad 11	2.15 x 2.15 x 0.60	RC30	A252 Mesh top and bottom
	Pad 12	2.25 x 2.25 x 0.60	RC30	A252 Mesh top and bottom
	Pad 13	2.30 x 2.30 x 0.60	RC30	A252 Mesh top and bottom
	Pad 14	2.30 x 2.30 x 0.60	RC30	2 Layers A393 Mesh bottom and 1 layer top
	Pad 15	2.30 x 2.30 x 0.60	RC30	A193 Mesh top and bottom
	Pad 16	2.30 x 2.30 x 0.60	RC30	A393 Mesh top and bottom
	Pad 17	2.35 x 2.35 x 0.75	RC30	2 Layers A393 Mesh bottom and 1 layer top
	Pad 18	2.35 x 2.35 x 0.60	RC30	A393 Mesh top and bottom
	Pad 19	2.35 x 2.35 x 0.60	RC30	A193 Mesh top and bottom
	Pad 20	2.40 x 2.40 x 0.93	RC30	A393 Mesh top and bottom
	Pad 21	2.60 x 2.60 x 0.60	RC30	2 Layers A393 Mesh bottom and 1 layer top
	Pad 22	2.60 x 2.60 x 0.60	RC30	A252 Mesh top and bottom
	Pad 23	2.70 x 2.70 x 0.60	RC30	2 Layers A393 Mesh bottom and 1 layer top
	Pad 24	2.70 x 2.70 x 0.60	RC30	A252 Mesh top and bottom
	Pad 25	2.75 x 2.75 x 0.60	RC30	A252 Mesh top and bottom
	Pad 26	2.75 x 2.75 x 0.60	RC30	A193 Mesh top and bottom
	Pad 27	2.85 x 2.85 x 0.60	RC30	A252 Mesh top and bottom
	Pad 28	2.90 x 2.90 x 0.60	RC30	A393 Mesh top and bottom
	Pad 29	2.90 x 2.90 x 0.60	RC30	A193 Mesh top and bottom
	Pad 30	3.05 x 3.05 x 0.75	RC30	3 Layers A393 Mesh bottom and 1 layer top
	Pad 31	3.10 x 3.10 x 0.75	RC30	2 Layers A393 Mesh bottom and 1 layer top
	Pad 32	3.15 x 3.15 x 0.75	RC30	2 Layers A393 Mesh bottom and 1 layer top
	Pad 33	3.25 x 3.25 x 0.75	RC30	3 Layers A393 Mesh bottom and 1 layer top
	Pad 34	3.25 x 3.25 x 0.75	RC30	2 Layers A393 Mesh bottom and 1 layer top
	Pad 35	3.30 x 3.30 x 0.75	RC30	3 Layers A393 Mesh bottom and 1 layer top
	Pad 36	3.30 x 3.30 x 0.93	RC30	2 Layers A393 Mesh bottom and 1 layer top
	Pad 36a	3.30 x 3.30 x 1.25	RC30	2 Layers A393 Mesh bottom and 1 layer top
	Pad 37	3.35 x 3.35 x 0.75	RC30	2 Layers A393 Mesh bottom and 1 layer top
	Pad 38	3.45 x 3.45 x 0.75	RC30	2 Layers A252 Mesh bottom and 1 layer top
	Pad 39	12.80 x 2.50 x 1.15	RC30	H20 bars @ 150mm crs btm and H16 bars top
	Pad 40	3.55 x 3.55 x 0.93	RC30	2 Layers A252 Mesh bottom and 1 layer top
	Pad 41	4.50 x 4.50 x 0.75	RC30	3 Layers A393 Mesh bottom and 1 layer top
	Pad 42	0.60sq or 0.60dia x 0.60dp	RC30	Pad to support Level Access Doors / Glazing posts
	Pad 42a	0.60sq or 0.60dia x 0.95dp	RC30	Pad to support Level Access Doors / Glazing posts
	Pad 43	0.45sq or 0.45dia x 0.40dp	RC30	If required - Pad to support Perimeter Beam
	Pad 44 Lift Slab	2.75 x 2.75 x 0.30	RC30	A393 Mesh top and bottom



2.	Slab - RC40 Under no cir) rcumstances s	hall additional water	or
3.	approval fro	om PRP.	and to the design mix w	ported to
4	PRP immed	liately.	ed from both frost and	4
5	moisture los	s during the c	uring stage.	alist
0.	drawings to prior to pour	lay out positio ring of slab, an	ns of drainage and s d notify engineer of a	ervices any
6.	Type 1 sub- Specification	base to be in a n for Highway	accordance with the Works placed and co	ompacted
7. 8.	Reinforcem Minimum la	ent to be high p lengths to be	yield steel to BS 444	9
9.	H10 - 450 Mesh reinfo	0mm H12 · rcement shall	- 500mm be to BS 4483	
10.	Mesh reinfo chairs prior positioning i	rcement to be to placing of c in slab	supported on proprie oncrete to ensure co	etary rrect
11.	75mm btm 8	steel reinforce & 50mm sides	and top	shall be
12.	5mm throug	hout for the lir	all not deviate more in the note	above
17.	BS820:Part	2 Maximum g	ap beneath a 3 metre	e straight
18.	Compressib	le filler materia	al to be 'Flexcell' or s I Engineer	imilar
19.	Cold poured	sealant to be the Structura	'Colpor 200' or simila I Engineer	ar
20.	Top surface sealant to A	of slab to be rchitects spec	power floated with du ification	ıst
C08 C07	21/06/2022 11/01/2022	Issued for Fir Racking thick	al Construction ened slab added	DC / JM KMV/ JM
C06	05/01/2022	Pad 44 updat dimensions, I	ed to Concast lift Pad 31 on GL L/4	KMV/ JM
		changed to P corrected Pad 4 on GL	ad 20, pad 39 width 15/W changed to	
C05	23/11/2021	Pad 17, Pad 2 changed to P	27 on GL 3/W ad 25 TOF amended	KMV/ JM
C04	15/11/2021	along GL3 to fabricator's d	match steel wgs	KMV/ JM
C03	12/11/2021	amended to s drawing.	suit concast	GF / JM
C02	05/11/2021	Pad 1 & 2 siz GL A change renamed as (es amended, GB on d to GB01, GB03 GB02, GB in	KMV/ JM
		docking chan foundation, L	ged to trench ift TOF updated	
C01	01/11/2021	Issued for Co Pile caps rep	nstruction laced with pad	KMV/ JM
P07	13/10/2021	foundations,	levels revised	KMV/ JM
P05	08/07/2021	Docking piles siponic -675n	put back on, nm TOF added, r added	KMV/ JM
P04	18/06/2021	GB3 on sche membrane & added	dule, CS2 gas slab tolerance	KMV/ JM
P03	17/06/2021	Dock / office amended. Bll	pile levels M nos added	KMV/ JM
Rev	Date	Description		By / Chk
		P	RP	
		consulti	ng engineers & surveyor	S
C O Bi	atherine House ld Harborough R rixworth NN6 9B	Telephone: d. northampto X www.prp.uk	01604 889 870 Leice n@prp.uk.com Norti com Lonc	ester hampton Ion
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PRF	P Ref No: (63150	Software: 2D Auto	CAD 2010

Rev:

C08

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Drg No:

P21024-PRP-BR-00-DR-S-0201

2.	All dimensions are in millimetres Unless Noted Otherwise (u.n.o.)
3.	Drawing is to be read in conjunction with all relevant architect's drawings. Any inconsistencies should be reported to PRP immediately.
ŀ.	All levels and dimensions are to be checked on site before any work commences.
5.	For more information see PRP drawings: 63150 - 100series - Drainage and External Works 63150 - 200series - Foundations 63150 - 300series - Superstructure
ò.	The Health and Safety at Work act is to be complied with at all times. Attention is drawn to the wearing of hard hats, safety boots, reflective clothing, and the use of any other required safety equipment.
our	ndations:
-	Concrete for foundations shall be Designated Concrete produced in accordance with BS 8500.
	Pad foundations - RC30
	Ground Beams - RC35
	Under no circumstances shall additional water or additives be supplemented to the design mix without
	approval from PRP. All pad and strip foundations shall be placed central beneath columns and walls respectively u.n.o.
	All foundations are to be founded on undisturbed natural material unless agreed with PRP.
	Any changes in ground conditions are to be reported to PRP immediately.
	Foundation excavations to be inspected by PRP at the request of the client or by Building Control officer to
	ensure that the ground bearing pressure is in excess of 150kN/m ² .
	All excavations are be free from debris prior to placement of concrete.
	Standing water and softened material shall be removed from bottom of excavations prior to placement of
	concrete. Concrete shall be protected from both frost and moisture
~	loss during the curing stage.
∪. 1	Nor surface of foundations shall be constructed to
1.	produce foundations to the dimensions and shapes
	indicated on drawing
2.	Formwork shall be constructed so there is no loss of
3.	Concrete foundations shall be laid within the permissible
-	deviations given in Tables 2 & 3 of BS 5606 for in - situ concrete unless agreed with PRP
4.	Contractor to lay out positions of drainage and services
	any conflicts
5.	Reinforcement to be high yield steel to BS 4449
6.	Minimum lap lengths to be: H10 - 450mm H12 - 500mm H16 650mm H20 800mm
7	Mesh reinforcement shall be to BS 4483
8.	Cover to all steel reinforcement, including links shall be 50mm top & sides and 75mm bottom
9.	Cover to reinforcement shall not deviate more than +/- 5mm throughout for the limits given in the note above
Slat	
	Concrete for slab shall be Designated Concrete
	produced in accordance with BS 8500-2006.
2	Under no circumstances shall additional water or
	additives be supplemented to the design mix without approval from PRP.

1. DO NOT SCALE FROM THIS DRAWING.



C05	21/06/2022	Issued for Final Construction	DC / JM
C04	21/03/2022	Pad schedule removed (see dwg 201) curtain walling details added	KMV/ JM
C03	15/11/2021	TOF -675 @ GL F/3 to match steel fabricator's dwgs	KMV/ JM
C02	05/11/2021	TOF -525 removed from core area, Lift TOF updated	KMV/ JM
C01	01/11/2021	Issued for Construction	KMV/ JM
P04	08/07/2021	Dock dwg moved to 0204, siponic levels added, TOPC levels amended	KMV/ JM
P03	18/06/2021	GB3 on schedule added & CS2 gas membrane added	KMV/ JM
P02	17/06/2021	Dock / office pile levels amended, BIM nos added	KMV/ JM
P1	25/05/2021	DRAFT Issued for comments	JD / JM
Rev	Date	Description	By / Chk

						F	PRP
						CO	nsulting engineers
					Catherine Hous Old Harboroug Brixworth NN6	se Telep h Rd. northa 9BX www.	hone: 01604 889 87 ampton@prp.uk.con prp.uk.com
					engineer	ing excell	ence [creat
EGEND:					Client:	UN	GSTE
Perimeter Bear	n N Fabricator					PRUPI	ERTIES LID
Longitudinal Jo	int				Architect: HTC Arc	chitects	
Induced Joint					Duciant		
Contraction Joi	nt				Project:		
indicatively. Fin th racking layou	al positions to it, if available				Calder F Wakefie WK4 3F	Park Id L	
					Title:		
					Foundat Slab & F	ions Foundatic	ons for Offic
Grou	nd Beams So	chedule			Status:		
Size [mm]		Reinforcement			FINA	L CO	NSTR
wd x dp	TOP	BTM	Links		Engineer:	JKT	Date:
600 x 600	4 H12	4 H16	4legsH8@200		Drawn:	KMV	Scales @
					Checked:	JM	1
					PRP Ref No:	63150	Software





Typical Ground Beam 01 Detail

ete for slab shall be Designated Concrete	
ed in accordance with BS 8500-2006.	
RC40	

additives be supplemented to the design mix without

Specification for Highway Works placed and compacted 6

Reinforcement to be high yield steel to BS 4449

chairs prior to placing of concrete to ensure correct

11. Cover to all steel reinforcement, including links shall be

12. Cover to reinforcement shall not deviate more than +/-

BS820:Part 2 Maximum gap beneath a 3 metre straight

- 18. Compressible filler material to be 'Flexcell' or similar

Notes:

- DO NOT SCALE FROM THIS DRAWING.
- All dimensions are in millimetres Unless Noted Otherwise (u.n.o.)
- Drawing is to be read in conjunction with all relevant architect's drawings. Any inconsistencies should be reported to PRP immediately.
- All levels and dimensions are to be checked on site before any work commences.
- For more information see PRP drawings:
- 63150 100series Drainage and External Works 63150 - 200series - Foundations
- 63150 300series Superstructure The Health and Safety at Work act is to be complied with
- at all times. Attention is drawn to the wearing of hard hats, safety boots, reflective clothing, and the use of any other required safety equipment.

Foundations: Concrete for foundations shall be Designated Concrete

- produced in accordance with BS 8500. Trench fill foundations - GEN3
- Pad foundations RC30
- Ground Beams RC35 Under no circumstances shall additional water or
- additives be supplemented to the design mix without approval from PRP.
- All pad and strip foundations shall be placed central beneath columns and walls respectively u.n.o.
- All foundations are to be founded on undisturbed natural material unless agreed with PRP.
- Any changes in ground conditions are to be reported to PRP immediately.
- Foundation excavations to be inspected by PRP at the request of the client or by Building Control officer to ensure that the ground bearing pressure is in excess of 150kN/m².
- All excavations are be free from debris prior to placement of concrete
- Standing water and softened material shall be removed from bottom of excavations prior to placement of concrete
- Concrete shall be protected from both frost and moisture loss during the curing stage.
- 10. Top surface of foundations shall be uniformly level 11. Where required formwork shall be constructed to
- produce foundations to the dimensions and shapes indicated on drawing
- 12. Formwork shall be constructed so there is no loss of concrete material
- 13. Concrete foundations shall be laid within the permissible deviations given in Tables 2 & 3 of BS 5606 for in - situ concrete unless agreed with PRP
- 14. Contractor to lay out positions of drainage and services prior to pouring of foundations, and notify engineer of any conflicts
- 15. Reinforcement to be high yield steel to BS 4449 16. Minimum lap lengths to be:
- H10 450mm H12 500mm H16 - 650mm H20 - 800mm
- 17. Mesh reinforcement shall be to BS 4483
- 18. Cover to all steel reinforcement, including links shall be 50mm top & sides and 75mm bottom 19. Cover to reinforcement shall not deviate more than +/-
- 5mm throughout for the limits given in the note above
- C04 21/06/2022 Issued for Final Construction DC / JM C03 06/11/2021 Lift slab amended to Concast lift KMV/ JM pit size C02 05/11/2021 GBP note added, TOF for lift KMV/ JM amended C01 01/11/2021 Issued for Construction KMV/ JM TOPC changed to 350mm & GB P04 08/07/2021 03 detail amended, lift detail KMV/ JM added P03 18/06/2021 GB 03 detail added, CS2 gas KMV/ JM membrane added

KMV/ JM P02 17/06/2021 BIM nos added Rev Date Description By / Chk



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UNGSTEN

PROPERTIES LTD Architect HTC Architects

Project: Calder Park

Wakefield WK4 3FL

Title:

Client

Foundations Slab & Foundations Details

FINAL CONSTRUCTION JKT Date: Jan 2021 Engineer Drawn: KMV Scales @ A1: 1:50 1:20 1:10 JM Checked: PRP Ref No: 63150 Software: 2D AutoCAD 2010 Drg No: Rev: P21024-PRP-BR-00-DR-S-0203 C04



Bar Bending Schedule									
Туре	Size	No of mbrs	No of bars in each	Total No	Length of each bar mm	Shape code	A mm	B mm	C mm
н	8	1	88	88	950	13	600	50	600
	Туре	Type Size	Bar Ber Type Size No of mbrs H 8 1	Bar BendingTypeSizeNo of mbrsNo of bars in eachH8188	Bar Bending ScheTypeSizeNo of mbrsNo of bars in eachTotal NoH818888	TypeSizeNo of barsTotal NoLength of each bar mmH818888950	Type Size No of mbrsNo of bars in eachLength of each bar mmShape codeH81888895013	Bar Bending ScheduleTypeSizeNo of mbrsNo of bars in eachTotal NoLength of each bar mmShape codeA mmH81888895013600	Bar Bending ScheduleTypeSizeNo of mbrsNo of bars in eachTotal NoLength of each bar mmShape codeA mmB mmH8188889501360050





- DO NOT SCALE FROM THIS DRAWING.
- All dimensions are in millimetres Unless Noted Otherwise (u.n.o.)
- Drawing is to be read in conjunction with all relevant architect's drawings. Any inconsistencies should be reported to PRP immediately.
- All levels and dimensions are to be checked on site before any work commences.
- For more information see PRP drawings: 63150 - 100series - Drainage and External Works
- 63150 200series Foundations 63150 - 300series - Superstructure
- The Health and Safety at Work act is to be complied with at all times. Attention is drawn to the wearing of hard hats, safety boots, reflective clothing, and the use of any other required safety equipment.

Slab

- Concrete for slab shall be Designated Concrete produced in accordance with BS 8500-2006. Slab - RC40
- Under no circumstances shall additional water or additives be supplemented to the design mix without approval from PRP.
- Any changes in ground conditions are to be reported to PRP immediately. Concrete shall be protected from both frost and
- moisture loss during the curing stage. Contractor to check Architect's and other specialist
- drawings to lay out positions of drainage and services prior to pouring of slab, and notify engineer of any conflicts
- 6. Type 1 sub-base to be in accordance with the Specification for Highway Works placed and compacted with plant approved by the structural engineer 7. Reinforcement to be high yield steel to BS 4449 8. Minimum lap lengths to be:
- H10 450mm H12 500mm
- 9. Mesh reinforcement shall be to BS 4483 10. Mesh reinforcement to be supported on proprietary chairs prior to placing of concrete to ensure correct positioning in slab
- 11. Cover to all steel reinforcement, including links shall be 75mm top & 75mm sides and bottom
- 12. Cover to reinforcement shall not deviate more than +/-5mm throughout for the limits given in the note above 17. Floor flatness to be class SR2 in accordance with
- BS820:Part 2 Maximum gap beneath a 3 metre straight edge laid in contact with the floor to be 5mm 18. Compressible filler material to be 'Flexcell' or similar
- approved by the Structural Engineer 19. Cold poured sealant to be 'Colpor 200' or similar
- approved by the Structural Engineer 20. Top surface of slab to be power floated with dust sealant to Architects specification

C03	21/06/2022	Issued for Fin	al Constructi	on E	DC / JM				
C02	17/01/2022	Recess shape	e revised	G	AJ/ JM				
C01	01/11/2021	Issued for Co	nstruction	K	MV/ JM				
Rev	Date	Description		B	iy / Chk				
	Consulting engineers & surveyors								
C O Bi	Catherine HouseTelephone: 01604 889 870LeicesterOld Harborough Rd.northampton@prp.uk.comNorthamptonBrixworth NN6 9BXwww.prp.uk.comLondon								
е	ngineering	g excellenc	e creatin	g advan	tage				
Clie	Client: TUNGSTEN PROPERTIES LTD								
Arcł ł	Architect: HTC Architects								
Proj	ect:								
	Calder Pa	rk							
V	Vakefield								
\ \	VK4 3FL								
Title	:								
F	oundatio	ns							
 F	Revolvina	Door Rec	ess Detai	1					
(Curtain Ec	dging Deta	il						
Stat		CON	STRU		ON				
Eng	ineer:	JKT	Date:	Oct 202	1				
Drav	wn:	KMV	Scales @ A	.1:					
Che	cked:	JM	1:50	1:20 1:	10				
PRF	P Ref No:	63150	Software: 2	D AutoCA	D 2010				
Drg P2	Drg No: Rev: P21024-PRP-BR-00-DR-S-0205 C03								





Bar Mark	Typ Si	be / ze	Total No of bars	Length of each bar mm	Shape code	A mm	B mm	C mm	D mm	E/R mm	Rev letter
01	Н	12	27	1250	11	450	800				
02	Н	12	31	1200	11	600	600				
03	н	10	8	1800	11	1050	750				
04	Н	10	8	1640	23	440	150	1050			

1.	Conc
	produ
~	Slab
2.	Unde
	addit
_	appro
3.	Any o
	PRP
4.	Conc
	moist
5.	Contr
	draw
	prior
	confli
6.	Туре
	Spec
	with p
7.	Reinf
8.	Minin
	H10
9.	Mesh
10.	Mesh
	chair
	positi
11.	Cove
	75mr
12.	Cove
	5mm
17.	Floor
	BS82
	edge
18.	Com
	appro
	appre

e for slab shall be Designated Concrete	
ed in accordance with BS 8500-2006.	
8C40	
o circumstances shall additional water or	

tives be supplemented to the design mix without roval from PRP.

changes in ground conditions are to be reported to immediately crete shall be protected from both frost and

sture loss during the curing stage.

tractor to check Architect's and other specialist vings to lay out positions of drainage and services

r to pouring of slab, and notify engineer of any

e 1 sub-base to be in accordance with the cification for Highway Works placed and compacted 6.

plant approved by the structural engineer forcement to be high yield steel to BS 4449

imum lap lengths to be: 10 - 450mm H12 - 500mm

h reinforcement shall be to BS 4483

n reinforcement to be supported on proprietary irs prior to placing of concrete to ensure correct

itioning in slab ver to all steel reinforcement, including links shall be

nm top & 75mm sides and bottom ver to reinforcement shall not deviate more than +/- 4. throughout for the limits given in the note above

flatness to be class SR2 in accordance with 20:Part 2 Maximum gap beneath a 3 metre straight 5. laid in contact with the floor to be 5mm

npressible filler material to be 'Flexcell' or similar oved by the Structural Engineer

19. Cold poured sealant to be 'Colpor 200' or similar approved by the Structural Engineer

20. Top surface of slab to be power floated with dust sealant to Architects specification

Notes:

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- All levels and dimensions are to be checked on site before any work commences.
- For more information see PRP drawings:
- 63150 100series Drainage and External Works 63150 - 200series - Foundations 63150 - 300series - Superstructure
- The Health and Safety at Work act is to be complied with at all times. Attention is drawn to the wearing of hard hats, safety boots, reflective clothing, and the use of any other required safety equipment.

Reinforced Concrete (RC) Details:

Do not scale this drawing on print or electronically work from figured dimensions only.

- Dimensions are given in millimeters and levels in meters. Concrete grade for all elements: RC40 u.n.o.
- Concrete clear cover:
 - : 50mm top & sides bottom
- : 50mm All work to comply with the relevant british standards,
- codes of practice and the building regulations. Unless noted otherwise on this drawing, the
- reinforcement shall be grade 500, type 2 deformed bars to BS4449 cut and bent in accordance with BS8666-2005 and the bar schedules.
- Minimum lap lengths to be: H8 - 350mm H10 - 450mm

по - <u>зо</u> онни	HIU - 450MM
H12 - 500mm	H16 - 650mm

ABBREVIATIONS: Т: Тор BM: Bottom Inner Face IF : OF: Outer Face "X"1: First Layer (outer) "X"2: Second Layer (inner) SB: Side Bar ES: Each Side EC: Each Corner V : Vertical Depth dp : Width w : TOB: Top Of Beam TOF: Top Of Foundation TYP.: Typical Req'd: Required TYPICAL REBAR CALL UP: 3x10 H20 01 - 200 - T | | | | | | ∟-- Notes | | | | ∟-----Bar Mark reference ---- Grade of steel | | ∟------ Quantity of bars --- Multiples C02 21/06/2022 Issued for Final Construction DC / JM C01 15/03/2022 Issued for Construction KMV/ JM Rev Date Description By / Chk PRP consulting engineers & surveyors Telephone: 01604 889 870 Catherine House Leicester northampton@prp.uk.com Northampton Old Harborough Rd. Brixworth NN6 9BX www.prp.uk.com London engineering excellence [creating advantage UNGSTEN Client PROPERTIES LTD Architect: HTC Architects Project: Calder Park Wakefield WK4 3FL Title: Unit 1 Meter Termination Cubicle Pit **FINAL CONSTRUCTION** JKT Date: March 2022 Engineer Scales @ A1: Drawn: KMV 1:20 JM Checked:

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PRP Ref No:

Drg No:

63150

P21024-PRP-BR-00-DR-S-0209

Software: 2D AutoCAD 2010

Rev:

C02

SAFETY, HEALTH & ENVIRONMENTAL HAZARD

The hazards noted below are in addition to the normal hazards and risks faced by a competent contractor when dealing with the types of works

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- For more information see PRP drawings: 63150 - 100series - Drainage and External Works 63150 - 200series - Foundations 63150 - 300series - Superstructure
- The Health and Safety at Work act is to be complied with at all times. Attention is drawn to the wearing of hard hats, safety boots, reflective clothing, and the use of any other required safety equipment.
- Foundations: Concrete for foundations shall be Designated Concrete produced in accordance with BS 8500.
- Slab PAV2 Under no circumstances shall additional water or additives be supplemented to the design mix without
- approval from PRP. All pad and strip foundations shall be placed central beneath columns and walls respectively u.n.o.
- All foundations are to be founded on undisturbed natural material unless agreed with PRP.
- Any changes in ground conditions are to be reported to PRP immediately.
- Foundation excavations to be inspected by PRP at the request of the client or by Building Control officer to ensure that the ground bearing pressure is in excess of 100kN/m².
- All excavations are be free from debris prior to placement of concrete.
- Standing water and softened material shall be removed from bottom of excavations prior to placement of concrete.
- 9. Concrete shall be protected from both frost and moisture loss during the curing stage.
- 10. Day joints in concrete shall be scabbled to provide a 'keying' - in surface for new concrete.
- 11. Day joints where no reinforcement extends out shall require a layer of A393 mesh top and bottom extending 450mm both sides of the joint. 12. Top surface of foundations shall be uniformly level
- 13. Where required formwork shall be constructed to produce foundations to the dimensions and shapes
- indicated on drawing 14. Formwork shall be constructed so there is no loss of concrete material
- 15. Concrete foundations shall be laid within the permissible deviations given in Tables 2 & 3 of BS 5606 for in - situ
- concrete unless agreed with PRP 16. Contractor to lay out positions of drainage and services prior to pouring of foundations, and notify engineer of
- any conflicts 17. Reinforcement to be high yield steel to BS 4449 18. Minimum lap lengths to be:
- H10 450mm H12 500mm H16 - 650mm H20 - 800mm
- 19. Mesh reinforcement shall be to BS 4483
- 20. Cover to all steel reinforcement, including links shall be 50mm top & sides and 50mm bottom
- 21. Cover to reinforcement shall not deviate more than +/-5mm throughout for the limits given in the note above

C02	21/06/2022	Issued for Fin	al Constructi	on [DC / JM
C01	16/12/2021	Issued for Co	nstruction		JD / JM
Rev	Date	Description		E	3y / Chk
		P	RP	surveyors	
C O B	atherine House ld Harborough R rixworth NN6 9B	Telephone: d. northamptor X www.prp.uk	01604 889 870 n@prp.uk.com .com	Leicest Northa Londor	er mpton 1
е	ngineerin	g excellenc	e creatin	g advan	tage
Clie	nt:	UNG PROPERT	STE IES LTD		
Arcl	nitect: HTC Arch	itects			
Proj (/ /	^{ect:} Calder Pa Vakefield VK4 3FL	rk			
Title (^{»:} Gatehous Slab	e			
Stat		CON	STRU	ICTI	ON
Eng	ineer:	JM	Date:	Dec 202	21
Drav	wn:	JD	Scales @ A	.1:	
Che	cked:	JM	1:	50 1:20	
PRF	P Ref No:	63150	Software: 2	D AutoCA	D 2010
Drg P2	^{No:} 1024-PR	P-BR-00-D	R-S-022	0	Rev: C02
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- All levels and dimensions are to be checked on site
- For more information see PRP drawings:
- 63150 100series Drainage and External Works 63150 - 200series - Foundations
- Drawing is to be read in conjunction with separate
- Bar Bending Schedules and revision checked The Health and Safety at Work act is to be complied with at all times. Attention is drawn to the wearing of hard
- hats, safety boots, reflective clothing, and the use of any other required safety equipment.

6/2022	Issued for Final Construction	DC / JM
2/2021	Issued for Construction	JD / JM
	Description	By / Chk

Catherine House Old Harborough Road Brixworth NN6 9BX

Telephone: 01604 889 870 northampton@prp.uk.com www.prp.uk.com

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FINAL CONSTRUCTION

	JM	Date:	Dec 202	1
	JD	Scales @ A	3:	
	JM	1:5	60 1:20	
No:	63150	Software: C	ADS RC 2	2020
				Rev:
4-Pl	RP-BR-00-D	DR-S-0221		C02

600x600mm clear opening cover to comply with BS EN 124 and BS 7903

- Manhole frame to be set to level, bedded and haunched externally over the abase and sides of the frame in mortar, in accordance with the manufacturer instructions.
- Min 2 courses Class B Engineering bricks or -Type 1 cover frame seating ring with 600x600 eccentric access hole (BS 752-3) beaded on
- Precast concrete cover slab bedded with mortar, plastomeric or elastomeric seal conforming to BS EN 1917 and BS 5911-3. Lifting eyes in concrete to be pointed
- 10mm uncompressed thickness of
- 150mm thick in-situ concrete surround to -be GEN3 (designed to BRE Special Digest 1 Concrete in Aggressive Ground)
- Precast concrete manhole sections bedded with mortar, plastomeric or elastomeric seal conforming to BS EN
- Grano Concrete benching (Min 20mm thick) to be brought up to a dense smooth face neatly shaped and finished to all branch connections. Benching slope to be between 1:10 and 1:30.
- Invert within chamber to be formed -Pipes of different diameter entering the manhole should be installed with soffits
- -FND2 concrete (sulphate resisting)
- Joint to be as close as possible to satisfactory joint and subsequent
- Pipe joint with chanel to be located -minimum 100mm inside face of
- All Pipes entering or leaving manholes shall have a flexible ioint within 600mm of the inside face of the manhole. The next pipe shall be a short "Rocker

Rocker Pipes

Effective Length [mm]
600
1000
1250

Min Manhole Diameters

	manhole [mm]
	1200
	1350
	1500
	1800
)	pipe Ø + 900

No junction less than 90° ⁻ from outgoing sewer

- Preformed swept channels
- Rigid pipes built into manhole should have a flexible joint as close as feasible to the external face of the structure and the length

Notes

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- All levels and dimensions are to be checked on site before any work commences.
- For more information see PRP drawings: 63150 - 100series - Drainage and External Works 63150 - 200series - Foundations 63150 - 300series - Superstructure
- The Health and Safety at Work act is to be complied with at all times. Attention is drawn to the wearing of hard hats, safety boots, reflective clothing, and the use of any other required safety equipment.
- Drainage: The position, line, level and diameter of all existing drainage apparatus should be confirmed on site prior to the commencement of the works. Any discrepancies should be reported to PRP immediately.
- The connection of foul and surface water drainage to the existing public sewer system shall be subject to the approval of the water authority
- For positions of all rainwater pipes & foul outlets refer to Architect's drawings.
- All drainage works shall be carried out in accordance with WRc "Sewers for Adoption - 7th edition" All joints between precast manhole components shall
- have a minimum uncompressed thickness of 10mm of proprietary bitumen or resin mastic sealant.
- Chambers & manholes with outgoing pipes of greater than Ø600mm shall be fitted with removable stainless steel (grade 316) safety chains or polypropylene rope. Storm & foul branch connections are to be laid at
- gradients of between 1:10 & 1:80 All in-situ concrete shall be minimum grade GEN3. Precast concrete cover & reducing slabs to be heavy
- duty reinforced concrete to BS 5911. 10. Rising mains shall be black MDPE SDR11 as WI
- 4-32-03 & joints & fittings to be in accordance with WI 4-32-04. Other approved pipe materials to be in accordance with their relevant BS.
- Manhole covers & frames shall be manufactured in cast iron or ductile iron & shall comply with requirements of BS EN 124 & shall be kite marked or equivalent.
- 12. Where there is no intermediate manhole between the start of a surface water pipe run and the soakaway the gradient of the run shall be not less than 1 : 60.
- 13. All completed work shall be suitably protected from damage by construction work. Damaged drainage will not be accepted. It is recommended that no heavy loading or underground work is permitted above or near unprotected drainage, and that dumpers, trucks, fork lifts or other heavy vehicles are not driven along or near pipe runs.
- . Inspection chambers, soakaways and flow control units are to be installed strictly in accordance with manufacturer guidance and instructions

<u> </u>	21/06/2022	locued for Fin		<u></u>	
C02	09/12/2022	Issued for cor	nstruction	on	ST / JM
P03	12/07/2021	Drainage Cor	nstr. Details u	pdated.	SK /BMS
P02	17/06/2021	BIM numberir	ng	•	KMV/BMS
P1	02/12/2020	Issued for Pla	Inning		SK /BMS
Rev	Date	Description			By / Chk
C O B	Catherine House Old Harborough Rd. Brixworth NN6 9BX Telephone: 01604 889 870 northampton@prp.uk.com Leicester Northampton Market Northampton Www.prp.uk.com				
e	ngineering	g excellenc	e į creatiną	g adva	intage
Clie	Client: TUNGSTEN PROPERTIES LTD				
Arcl	Architect: HTC Architects				
Proj	Project:				
	Calder Park Wakefield WF4 3FL				
Title	Title: Drainage Construction Details				
Stat	Status: FINAL CONSTRUCTION				
Eng	ineer:	SK	Date:	Nov 2	020
Drav	wn:	SK	Scales @ A	1:	
Che	cked:	BMS		1:20	

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PRP Ref No: 63150

P21024_PRP_EX_00_DR_C_0102

Drg No:

Software: 2D AutoCAD 2010

Rev

C02

- 1. DO NOT SCALE FROM THIS DRAWING.
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- 4. All levels and dimensions are to be checked on site before any work commences.
- 5. For more information see PRP drawings: 63150 - 100series - Drainage and External Works 63150 - 200series - Foundations 63150 - 300series - Superstructure
- 6. The Health and Safety at Work act is to be complied with at all times. Attention is drawn to the wearing of hard hats, safety boots, reflective clothing, and the use of any other required safety equipment.

Drainage:

- 1. The position, line, level and diameter of all existing drainage apparatus should be confirmed on site prior to the commencement of the works. Any discrepancies should be reported to PRP immediately.
- 2. The connection of foul and surface water drainage to the existing public sewer system shall be subject to the approval of the water authority
- 3. For positions of all rainwater pipes & foul outlets refer to Architect's drawings.
- 4. All drainage works shall be carried out in accordance with WRc "Sewers for Adoption - 7th edition"
- 5. All joints between precast manhole components shall have a minimum uncompressed thickness of 10mm of proprietary bitumen or resin mastic sealant.
- 6. Chambers & manholes with outgoing pipes of greater than Ø600mm shall be fitted with removable stainless steel (grade 316) safety chains or polypropylene rope.
- Storm & foul branch connections are to be laid at gradients of between 1:10 & 1:80
- All in-situ concrete shall be minimum grade GEN3. 9. Precast concrete cover & reducing slabs to be
- heavy duty reinforced concrete to BS 5911. 10. Manhole covers & frames shall be manufactured in cast iron or ductile iron & shall comply with requirements of BS EN 124 & shall be kite marked or equivalent.
- 11. All completed work shall be suitably protected from damage by construction work. Damaged drainage will not be accepted. It is recommended that no heavy loading or underground work is permitted above or near unprotected drainage, and that dumpers, trucks, fork lifts or other heavy vehicles are not driven along or near pipe runs.
- 12. Inspection chambers, headwalls, gullies, ACO channels, and beany kerbs are to be installed strictly in accordance with manufacturer guidance and instructions

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Joint to be as close as possible to face of manhole to permit satisfactory joint and subsequent movement

Pipe joint with chanel to be located -minimum 100mm inside face of

All Pipes entering or leaving manholes shall have a flexible joint within 600mm of the inside face of the manhole. The next pipe shall be a short "Rocker pipe" 600mm long.

Rocker Pipes

Sewer Diameter [mm]	Effective Length [mm]
150 to 600	600
over 600 to 750	1000
over 750	1250

Min Manhole Diameters

Largest Pipe Ø in manhole [mm]	Internal Ø of manhole [mm]
Less than 375	1200
375 - 450	1350
500 - 700	1500
750 - 900	1800
Greater than 900	pipe Ø + 900

Sub-Base / Sub-Grade Thickness (Access Roads & Service Yards)			
CBR Value	Sub Base + Capping (mm)	Sub Base Alone (mm)	
< 2%	150 sub-base + 600 capping	N/A	
2.5%	150 sub-base + 400 capping	N/A	
3%	150 sub-base + 350 capping	300	
5%	150 sub-base + 250 capping	225	
10%	150 sub-base + 190 capping	180	
15%	150 sub-base + 150 capping	150	
> 15%	150 sub-base	0	
On frost susc The format Clause references Any make-up necessa	On frost susceptible sub-grades minimum total construction thickness = 450mm The formation is to be proof rolled prior to laying of any Sub-base material. Clause references shown on this drawing refer to DTp Specification for Highway Works. Any make-up necessary beneath Type 1 Sub-base to be Type 1 or Class 6F2 Capping material.		

Sub-Base / Sub	o-Grade Thickness (Car Parking)
CBR Value	Sub Base + Capping (mm)

o Di ti talao		
< 2%	150 sub-base + 350 capping	
2%	150 sub-base + 250 capping	
3%	150 sub-base + 150 capping	
4%	150 sub-base + 100 capping	
> 5%	200 sub-base	

Note: External Works Construction Details drawing to be read in conjuction with HTC Architects Proposed External Surfaces Plan drawing: 'P21024 HTC XX ZZ DR A C401 P1 Surface Treatments Site Plan'.

- NOTE
- All works to be carried out in accordance with the DfT specification for Highway Works and latest British Standards and Codes of Practice unless agreed in writing with Borough Council Engineer. General deterioration of the existing highway / footway / verges created through construction of the new S278 development will be reinstated to the satisfaction of the Borough Council Engineer at the developers' own expense. No private surface water shall discharge onto
- 1) 2)
- 3) adoptable highway.

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 - 63150 200series Foundations 63150 - 300series - Superstructure
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- 125x255mm Half Battered PCC kerb to BS 7263: 2001
- 25mm sand/cement mortar bed to clause 2404 class 1

- 150x125 PCC Flat top kerb
- Kerb foundation -to be Concrete Class GEN 1
- 150x50 PCC flat top edging kerb
- Kerb foundation -to be Concrete Class GEN 1

External Works:

- Prior to any works being carried out within or immediately adjacent to the public highway, a scheme for the safe control of traffic and pedestrians is to be agreed with the Highway Authority and implemented
- Any utilities shown on this drawing are indicative only. It is the Contractor's responsibility to trace and indicate the precise location and nature of all services.
- The Developer/Contractor shall be responsible for liaison with the Statutory Undertakers and other cable service companies for the provision of all required services, diversion
- Special care is to be taken when excavating in the vicinity of existing tress, it is not intended that any tree roots should be severed or damaged and specialist advice should be sought when major roots present a problem.
- The formation of all surfaces shall be trimmed, rolled and treated with a glyphosphate based weedkiller in accordance with the manufacturers instructions prior to laying the sub-base
- All in situ concrete shall be Designated Concrete GEN3 produced in accordance with BS 8500-2006.
- In all instances sulphate resisting cement is to be used. Half Battered and Splayed kerbs face shall be 125mm above the channel level. Bullnosed kerb shall be 0-6mm above wearing course for pedestrian crossing and 25mm for vehicular access
- The minimum depth of concrete below all kerbs shall be 150mm. Kerbs shall be laid on a 10-40mm bed of Class 1 cement mortar unless laid with the foundation in one operation.
- 10. Adequate bond must be made between foundation and haunch if laid in more than one operation. Preferred method of bonding to be by means of steel U-bars reinforcement, any other method to be approved by PRP.
- 1. Mortar joints between kerbs not to be provided unless specified. Gaps between kerbs to be 1 to 2mm.
- 12. The sub-grade shall be prepared to falls to ensure that construction thickness' remain uniform, Following trimming of the sub-grade it shall be protected against the ingress of water, failure to do so will seriously weaken the sub-grade.
- 13. All soft spots shall be excavated and replaced with compacted sub-base material
- 14. The minimum total carriageway construction thickness shall not be less than 450mm.
- 15. All materials used in top 450mm of carriageway construction shall be non-frost susceptible.

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PRP Ref No

Drg No:

63150

Software: 2D AutoCAD 2010

Rev:

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- The Health and Safety at Work act is to be complied with at all times. Attention is drawn to the wearing of hard hats, safety boots, reflective clothing, and the use of any other required safety equipment.

Yard Slab:

- The Contractor shall check all tie-ins for line and level with existing before commencing any works. The Engineer shall be notified immediately, in writing, should any errors be found.
- Any discrepancies, of whatever nature, must be reported to the Engineer prior to the commencement or requirements of the Health and Safety At Work Act 1974, and CDM regulations 2015. The contractor will be deemed to have allowed for full compliance, including full liaison with the planning supervisor, within his rates.
- All private drainage works to be in accordance with the requirements of Building Regulations 2000, Part H, "Drainage and waste disposal".
- Should any departure from the slab level be considered, agreement shall be sought from the Engineer immediately and prior to commencement or continuance of any works, and should take full account of all restrictions to the slab level.
- This drawing is to be read in conjunction with all other relevant Engineering and Architects details Under no circumstances shall additional water or
- additives be supplemented to the design mix without approval from PRP. Any changes in ground conditions are to be reported to
- PRP immediately. Concrete shall be protected from both frost and
- moisture loss during the curing stage.
- Contractor to check Architect's and other specialist drawings to lay out positions of drainage and services prior to pouring of slab, and notify engineer of any conflicts
- 10. Bottom of excavations shall be trimmed and leveled 11. Type 1 sub-base to be in accordance with the Specification for Highway Works placed and compacted with plant approved by the structural
- engineer 12. Reinforcement to be high yield steel to BS 4449 13. Minimum lap lengths to be:
- H10 450mm H12 500mm H16 650mm 14. Mesh reinforcement shall be to BS 4483 15. Mesh reinforcement to be supported on proprietary
- chairs prior to placing of concrete to ensure correct positioning in slab 16. Cover to all steel reinforcement, including links shall be
- 50mm top & sided and 75mm bottom 17. Cover to reinforcement shall not deviate more than +/-
- 5mm throughout for the limits given in the note above

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- architect's drawings. Any inconsistencies should be reported to PRP immediately. 4. All levels and dimensions are to be checked on site
- before any work commences. 5. For more information see PRP drawings: 63150 - 100series - Drainage and External Works
- 63150 200series Foundations 63150 - 300series - Superstructure 6. The Health and Safety at Work act is to be complied with
- at all times. Attention is drawn to the wearing of hard hats, safety boots, reflective clothing, and the use of any other required safety equipment.

Yard Slab:

- 1. The Contractor shall check all tie-ins for line and level with existing before commencing any works. The Engineer shall be notified immediately, in writing, should any errors be found.
- 2. Any discrepancies, of whatever nature, must be reported to the Engineer prior to the commencement or requirements of the Health and Safety At Work Act 1974, and CDM regulations 2015. The contractor will be deemed to have allowed for full compliance, including full liaison with the planning supervisor, within his rates.
- 8. All private drainage works to be in accordance with the requirements of Building Regulations 2000, Part H, "Drainage and waste disposal".
- 4. Should any departure from the slab level be considered, agreement shall be sought from the Engineer immediately and prior to commencement or continuance of any works, and should take full account of all restrictions to the slab level.
- 5. This drawing is to be read in conjunction with all other relevant Engineering and Architects details 6. Under no circumstances shall additional water or
- additives be supplemented to the design mix without approval from PRP. Any changes in ground conditions are to be reported to PRP immediately.
- 8. Concrete shall be protected from both frost and moisture loss during the curing stage. 9. Contractor to check Architect's and other specialist
- drawings to lay out positions of drainage and services prior to pouring of slab, and notify engineer of any conflicts 10. Bottom of excavations shall be trimmed and leveled
- 11. Type 1 sub-base to be in accordance with the Specification for Highway Works placed and compacted with plant approved by the structural
- 12. Reinforcement to be high yield steel to BS 4449
 13. Minimum lap lengths to be: H10 450mm H12 500mm H16 650mm
 14. Mesh reinforcement shall be to BS 4483
- 15. Mesh reinforcement to be supported on proprietary chairs prior to placing of concrete to ensure correct
- positioning in slab Cover to all steel reinforcement, including links shall be 50mm top & sided and 75mm bottom
- 17. Cover to reinforcement shall not deviate more than +/-5mm throughout for the limits given in the note above

C03	21/06/2022	Issued for Final Construction	DC / JM		
C02	22/03/2022	Joints amended for Q-Max channel at yard entrance	KMV/ JM		
C01	09/12/2021	Issued for construction	ST / JM		
P02	05/11/2021	EJ added by access doors & updated joints positions	KMV/ JM		
P01	20/10/2021	Issued for comments	KMV/ JM		
Rev	Date	Description	By / Chk		
PRP:					
consulting engineers & surveyors					
Catherine House Telephone: 01604 889 870 Leicester Old Harborough Rd. northampton@prp.uk.com Northampton					

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PROPERTIES LTD

Architect: HTC Architects Project: Calder Park

Wakefield

WK4 3FL Title: External Works Yard & Footpath Slab Joint Layout Sheet 1 of 2

Status: FINAL		STRUCTI	ON	
Engineer:	JM	Date: Oct 202	1	
Drawn:	KMV	Scales @ A0:		
Checked:	JM	1:250		
PRP Ref No:	63150	Software: 2D AutoCA	D 2010	
Drg No: Rev: P21024-PRP-EX-00-DR-C-0115 C03			Rev: C03	
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Transition Width	L
	Surface Course
	Blinder Course
	Base
	Sub base