# **Technical Assessment**

# paths for all Path Maintenance and Improvement Works to Castle Loch Walk, Lochmaben



Produced by: Paths for All Partnership Kintail House, Forthside Way, Stirling, FK8 1QZ

Produced on: January 2020

## Disclaimer

This technical route assessment is based on circumstances present at the time of the survey on 5<sup>th</sup> October 2020.

Paths for All do not accept liability for any loss or damage of any kind arising from, or in connection with, the use of the information and recommendations contained within this study.

### Contents

- 2.0 Initial route assessment/survey methodology
- 3.0 Route description
  - Map 1 General location plan
  - Map 2 Location of designated local Core Paths around Lochmaben
  - Map 3 Indicative line of route and proposed improvements to path/route infrastructure with key distances/features noted

4.0 Route assessment survey

5.0 Cost estimate

Drawings:CL/UPU/CLLCT/001-Unbound Surface Path (Upgrade of Existing Path)(Standard Detail<br/>and/or Detailed)CL/UPHT/CLLCT/002-Unbound Surface Path (Half Tray Excavation)Drawings)CL/LLW/CLLCT/002-Low Level WalkwaySD/PC/01-Piped Culvert (Twinwall Pipe)

#### **1.0 Introduction**

The surveyed path is located around the Castle Loch, Lochmaben, Dumfries and Galloway (see **Map 1** – General location plan). The route is readily accessed from numerous points arounds the Loch with the survey being started and completed from the carparking area at the Visitor Centre.

'Paths for All' were invited to assess the existing route, develop improvement proposals (see **Map 3** - Indicative line of proposed improvements to path/route infrastructure with key distances/features noted) and prepare a technical appraisal / cost analysis to upgrade this section of path; making the route more accessible to a broader range of path users where possible. Particular focus was to be given to the general improvement, and raising, of existing boardwalk sections between chainages 1578 and 1724 linm, and including the link path to a bird hide at grid reference NY090811, where rising water levels can render these sections impassable throughout the year.

#### 2.0 Initial route assessment / survey methodology

The aim of this Technical Assessment is to assess current general condition, including access barriers, notable gradients, signage and the like with a view to understand what works may be required to improve the route for current users whilst further seeking to better accommodate the broadest type of path user wherever possible (e.g. recreational runners, cyclists, pushchairs, less able, etc.).

The objectives of the survey were to:

- Measure and record the current length and condition of the path route
- Identify key points and specific issues along the route which are liable to detrimentally affect users and the improvement works needed to rectify these issues
- Identify initial outline design ideas for the improvement works
- Provide cost estimates for the proposed improvement works
- Provide Standard Detail or Detailed Drawings for suggested works

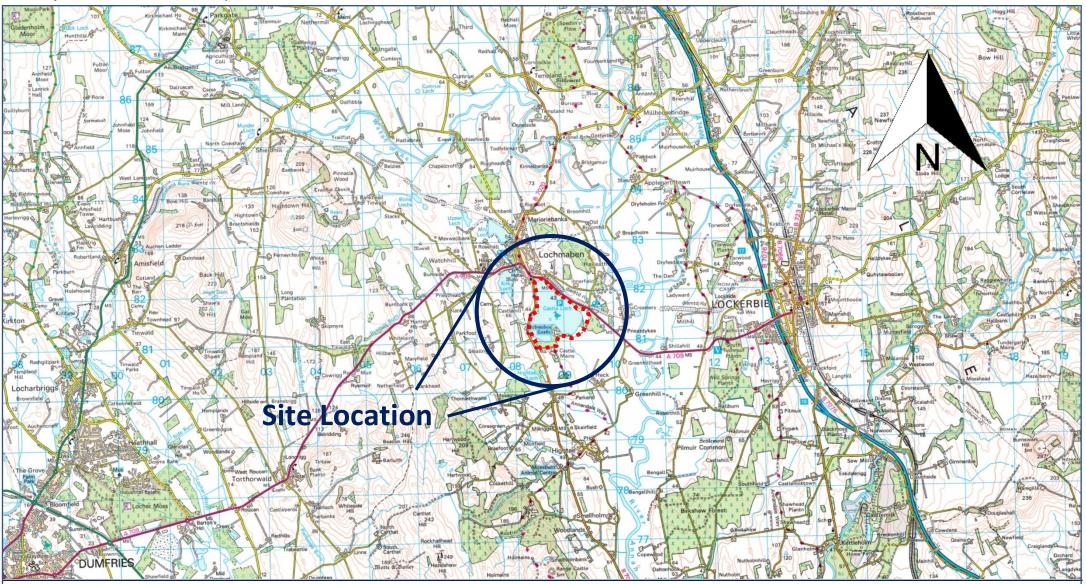
The survey involved walking the route and recording the current condition along its full length. The route surface and features were photographed and referenced in linear metres (linm). The notes and photographs within this survey serve to provide the reader with a general impression of the current condition (route surface and features), identify any specific issues and propose initial outline design ideas for the suggested route improvement works.

The surveyed paths extend to approx. 4595 linear metres (linm) in total and forms a complete circular route around the loch. The survey commenced from the Castle Loch carparking, off the A709 to the north east of the lochside (Grid Ref NY089819) and progressed in a clockwise direction. The route is further detailed within this document.

#### 3.0 Route description

Principle access to the Lochside walk is from the Castle Loch car park to the north east of the Castle Loch and off the A709 carriageway (Grid Reference NY089819). Additional access points are located around the full site and include informal links off roadside lay-bys existing farm access roads.

The majority of the route is through mixed deciduous woodland and much of the route has been surfaced with Type 1/whin dust; with evidence that this has been done, or re-done, over the years and has included a number of access infrastructure works e.g. ditching and culverts plus seating. interpretation panels and interpretation features. Within the route there is approx. 226 linm of timber boardwalk, typically 1000mm wide but with a short section at 1.4m width, 89 linm section across amenity grass and approx. 1104 linm of existing farm/field access track.



Castle Loch Walk, Lochmaben - Path Improvement Project

**General Location Plan** 

Legend:

Line of Existing Path

Map No. CLL001.01 Project ID: CLL.11/20

Scale: Not to be scaled.

Paths for All Partnership Reproduced by permission of Ordnance Survey. © Crown Copyright 2020. All rights reserved. Licence number 100063445



Map 2 – Location of designated local Core Paths around Lochmaben





Map 3 – Indicative line of route and proposed improvements to path/route infrastructure with key distances/features noted

# 4.0 Route assessment survey

Path Sur	vey a	nd Specif	icatior	Sheet	Sheet No. 1								
Location:	Castle	Loch, Loch	maben, I	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	erson				
Path:	Castle	Loch Circul	ar Route		Date:	05.10.20	Section:	Chaina	ge (0 – 165 liı	nm)			
0 0 - 44	/	/	/ 2.5	Start of path by southern edge of carparking. Access road ends at 44 linm. Surface composed of 6mm	Clear any ove	<b>Aanagement:</b> erhanging vegetation om finished path su							
44	/	/	/	bitmac. Route becomes narrow Type 1 surfaced path.	50mm, unles All woody ve		within this tech	nical asse	ssment.				
				Photo 1: chainage 44 linm - general photo looking back (north) toward car park with visitor centre to right Access road ends at 44 linm and aggregate path begins. General photo looking back toward car park.	Path constru Option 1: Car width of prev upgrade surf camber throu path and into reform path	ction and surfacing refully scrape back viously installed pat ace to Drawing CL/ ughout to allow any overge area on eith verges, ensuring fir w surface water run	all encroaching h (estimated to UPU/CLLCT/001 v surface water her side. All verg ished verge lev	be a min . Constru run-off to ge scrape	imum of 1.5m) ct path levels t be discharged arisings to be u	and o max 1:40 off the utilised to			
44 – 165	<b>+</b>	1	0.6	Photo 2: chainage 44 linm - general	usable path s 1m on either of maintenar original path ground veget (requires PA1 <b>Drainage:</b>	surface width by reg side. Consideration nee works aimed at width. Alternative	gularly cutting b n to be given to carefully scrapi is to apply appr th not exceeding ). Occasional co	ack verge undertak ng back e opriate ho g original ompactior					
				photo looking forward (south) Route clearly defined with surface composed of compacted Type 1 aggregate to approx. 600mm width and with encroaching verges which have narrowed finished path width over time.	better enable	e surface water run the path surface. L	-off and to allev	iate any j	possible pondir	ng along			
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descripti	on of Proposed	Path Works					

Path Sur	rvey a	nd Specif	ication	Sheet	Sheet No. 2								
Location:	Castle	Loch, Lochi	maben, I	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	rson				
Path:	Castle	Loch Circul	ar Route		Date:	05.10.20	Section:	Chaina	ge (165 – 218	3 linm)			
165 165 - 218 218	/ /	/ / /	0.6	<image/> <complex-block></complex-block>	Vegetation M Clear any over than 3.5m from encroaching w 50mm, unless All woody veg site within ag Barriers/Othe No works req Path construe Option 1: Car width of prev upgrade surfat camber throut path and into reform path w levels to allow Option 2: Ass usable path s 1m on either of maintenant original path ground veget (requires PA1 Drainage: For path const better enable the edges of the Signage:	<b>Janagement:</b> Thanging vegetation om finished path survegetation not less t s otherwise noted w getation to be cut in reed locations. <b>er features:</b>	n, along length face (preferred than 1m from p rithin this tech to manageable (estimated to PU/CLLCT/001 surface water er side. All verg shed verge lev off. rorks, as detail ularly cutting b to be given to carefully scrapi to apply appr not exceeding . Occasional co and 2: Install dr off and to alley cate as require	of route, d height 3 bath edge: nical asses e lengths a verge veg be a mini Construc run-off to ge scrape els remair ed within back verge undertaki ng back es opriate he g original p ompaction rainage let viate any p ed and to a	to a height of .7m) and any s s and to a heig soment. and distributed for the some of the some transformer of the some of the some of the some of sourface. The solution of the some of sourface.	not less smaller sht of d across d acro			
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	n of Proposed	Path Wo	rks				

Path Sur	vey a	nd Specif	ication	Sheet					Sheet No.	3			
Location:	Castle	Loch, Loch	maben, I	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	erson				
Path:	Castle	Loch Circul	lar Route		Date:	05.10.20	Section:	Chaina	ge (218 – 388	8 linm)			
218 - 260 260	/	/	<1.0m	Path remains reasonably well defined and widens due to reduced vegetation growth under tree canopy (see Photo 5). Surface composed of leaf litter over Type 1 surfaced path.	Clear any over 3.5m from fin vegetation no otherwise not All woody veg within agreed Barriers/Othe	egetation Management: lear any overhanging vegetation, along length of route, to a height of not less than .5m from finished path surface (preferred height 3.7m) and any smaller encroachin egetation not less than 1m from path edges and to a height of 50mm, unless therwise noted within this technical assessment. Il woody vegetation to be cut into manageable lengths and distributed across site vithin agreed locations. arriers/Other features:							
260 - 388	+	1	<1.0m	Photo 5: chamage 218 linm - general photo looking backward General photo of desire line shortcut looking back. Path remains well defined but narrow slightly to 1.0m.	<ul> <li>No works required.</li> <li>Path construction and surfacing:</li> <li>Option 1: Carefully scrape back all encroaching verge vegetation to expose full width of previously installed path (estimated to be a minimum of 1.5m) and upgrade surface to Drawing CL/UPU/CLLCT/001. Construct path levels to max 1:40 camber throughout to allow any surface water run-off to be discharged off the path and into verge area on either side. All verge scrape arisings to be utilised to reform path verges, ensuring finished verge levels remain below path surface levels to allow surface water run-off</li> <li>Option 2: Assumes no upgrade works, as detailed within Option 1. Maintain usable path surface width by regularly cutting back verge vegetation to a width of 1m on either side. Consideration to be given to undertaking a phased programme of maintenance works aimed at carefully scraping back existing verge to expose origina path width. Alternative is to apply appropriate herbicide to encroaching ground vegetation). Occasional compaction of surface.</li> <li>Option 3: Consider constructing new path (to Drawing CL/UPHT/CLLCT/002) to formalise desire line. Care to be taken to avoid root damage when passing through beech tree (estimated 30linm).</li> <li>Drainage:</li> </ul>								
388	/	/	/	<complex-block></complex-block>									
Chainage	Slope	Grad.	Width	General photo of environmental interpretation to right of path.	the path surfa	e water run-off and t ice. Locate as require gn cleaning into ann	ed and to a min	width of 2 e schedule	00mm.	e edges c			

Path Sur	rvey ai	nd Specif	icatior	Sheet	Sheet No. 4										
Location:	Castle	Loch, Loch	maben,	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	rson						
Path:	Castle	Loch Circul	ar Route		Date:	05.10.20	Section:	Chaina	ge (318 – 456	i linm)					
388 – 441 441	/	/	0.6	Path continues through shaded woodland area. Path surface remains composed of compacted Type 1 aggregate.	than 3.5m fro encroaching 50mm, unless All woody veg	rhanging vegetation om finished path sur vegetation not less t s otherwise noted w getation to be cut in reed locations. er features:	face (preferred han 1m from p rithin this tech	d height 3 bath edge nical asses	of route, to a height of not less height 3.7m) and any smaller ath edges and to a height of ical assessment. lengths and distributed across						
441 - 456	<b>+</b>	/	/	Photo 7: chainage 441 linm general photo looking forward Path continues through shaded woodland area. Path surface remains composed of compacted Type 1 aggregate and undulates gently throughout this section.	Path construct Option 1: Car width of prev upgrade surfa camber throu path and into reform path v	ction and surfacing: refully scrape back a iously installed path ace to Drawing CL/U ighout to allow any overge area on either verges, ensuring fini- v surface water run-	II encroaching (estimated to PU/CLLCT/001 surface water er side. All verg shed verge lev	be a mini Construe run-off to ge scrape	mum of 1.5m) ct path levels t be discharged arisings to be	and o max 1:40 off the utilised to					
456				<complex-block></complex-block>	usable path s 1m on either of maintenan original path ground veget (requires PA1 <b>Drainage:</b> For path cons better enable the edges of <b>Signage:</b>	urface width by reg side. Consideration ce works aimed at c width. Alternative is ation and to a width /PA6a certification) struction options 1 a	ularly cutting b to be given to arefully scrapi to apply appr not exceeding Occasional co nd 2: Install dr off and to allev cate as require	ack verge undertak ng back e opriate he g original ompaction rainage let viate any p ed and to a	d within Option 1. Maintain ick verge vegetation to a width of indertaking a phased programme g back existing verge to expose priate herbicide to encroaching original path base width npaction of surface. inage letts along the verge to ate any possible ponding along I and to a min width of 200mm. ce schedule.						
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	n of Proposed	Path Wo	rks						

Path Sur	vey ar	nd Specif	ication	Sheet	Sheet No. 5							
Location:	Castle	Loch, Loch	maben, I	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Anderson				
Path:	Castle	Loch Circul	ar Route		Date:	05.10.20	Section:	Chainage (456 – 536 linm)				
456 - 536	/	/	0.6	Photo 9: chainage 472 linm         Photo 0: chainage 472 linm         Path continues through shaded woodland area. Path surface         remains composed of compacted Type 1 aggregate. Small         puddle formed at chainage 482 linm. No side drainage         present and limited option for water to get off path.         Image 482 linm         Image 482 linm	than 3.5m fro encroaching v 50mm, unless All woody veg site within ag Barriers/Othe No works req Path construe Option 1: Car width of prev upgrade surfa camber throu path and into reform path v levels to allow Option 2: Ass usable path s 1m on either of maintenan original path ground veget (requires PA1 Drainage: For path cons better enable the edges of the Signage:	erhanging vegetation om finished path surf vegetation not less t is otherwise noted w getation to be cut inter- reed locations. er features: uired. ction and surfacing: refully scrape back al- riously installed path ace to Drawing CL/U ughout to allow any so overge area on either verges, ensuring finis w surface water run- sumes no upgrade w urface works aimed at c width. Alternative is ration and to a width ./PA6a certification).	face (preferred han 1m from p ithin this tech to manageable (estimated to PU/CLLCT/001 surface water r side. All verg shed verge leve off. orks, as detaile larly cutting b to be given to arefully scrapi to apply appre- not exceeding Occasional co nd 2: Install dr off and to allev cate as require	e lengths and distributed across verge vegetation to expose full be a minimum of 1.5m) and . Construct path levels to max 1:40 run-off to be discharged off the ge scrape arisings to be utilised to els remain below path surface ed within Option 1. Maintain ack verge vegetation to a width of undertaking a phased programme ng back existing verge to expose opriate herbicide to encroaching g original path base width impaction of surface. ainage letts along the verge to iate any possible ponding along d and to a min width of 200mm.				
Chainage	Slope	Grad.	Width	path.								
(linm)	Dir	(%/deg)	(m)	Current Path Condition		Description	scription of Proposed Path Works					

Path:       Castle Loch Circular Route       Date:       U.3.20       Section:       Chainage (536 – 545 linn)         536 - 545       + +       /       0.6       Vegetation Management:       Clear any smalle encoding regretation, along length of route, to a height of note than 3.5 m form finished path surface (preferred height of note).       Clear any smalle encoding vegetation, along length of route, to a height of note than 3.5 m form finished path surface (preferred height of note).       Negetation not less than 1m from path edges and to a height of 50m.         545       /       /       0.6       Section:       Clear any oreplay expection in the cut in the note of the manageable lengths and suffacing:         545       /       /       /       /       /       /       Path: sufface any smalle encoding areas at sufface to bridge to remove any stepped levalue. Remove all vegetation to expect the other any smalle encoding areas to bridge to remove any stepped levalue. Remove all vegetation to expect the other any smalle encoding areas bit height path sufface and suffacing:         545       /       /       /       /       /       /       /         545       /       /       /       /       /       /       /         545       /       /       /       /       /       /       /         545       /       /       /       /       /       /       /<	Location:	Castle	Loch Loch	mahen I	Dumfries and Galloway	Weather:	Dry, sunny	Surveyor:	G Ande	rson	
<ul> <li>536 - 545</li> <li>Sige - 545</li></ul>								-			
545       /       /       /       /       /       /       /       /       /       Plot of timer bench.         545       /	Path:	Castle	Loch Circu	ar Route		Date:	05.10.20	Section:	Chaina	ge (536 – 545	5 linm)
		/	/	0.6	general photo of bridge (approx. 5m span General photo taken looking forward to timber bridge (1400mm wide with parapets at 840mm height). Path continues through shaded woodland area. Path surface remains composed of compacted Type 1 aggregate.	Clear any over than 3.5m fro encroaching y 50mm, unles All woody ver site within ag <b>Barriers/Oth</b> Incorporate & maintenance structure. Up variances. <b>Path constru</b> <b>Option 1:</b> Car width of prev upgrade surfa camber throu path and into reform path y levels to allow <b>Option 2:</b> Ass usable path s 1m on either of maintenar original path ground veget (requires PA1 <b>Drainage:</b> For path cons better enable the edges of <b>Signage:</b>	erhanging vegetation om finished path su vegetation not less s otherwise noted getation to be cut i greed locations. er features: oridge condition inse schedule. Remove ofill path surface ap ction and surfacing refully scrape back viously installed path ace to Drawing CL/ ughout to allow any overge area on eith verges, ensuring fir w surface water run sumes no upgrade s surface width by re- side. Consideration nee works aimed at width. Alternative tation and to a width L/PA6a certification struction options 1 e surface water run the path surface. L	rface (preferred than 1m from p within this techn nto manageable spection and sea all vegetation g proaches to brid g all encroaching th (estimated to UPU/CLLCT/001 v surface water n er side. All verg ished verge leven to off. works, as detaile gularly cutting b n to be given to carefully scrapi is to apply appre- th not exceeding 0). Occasional co and 2: Install dr off and to allev	d height 3 bath edge nical asses e lengths a at cleaning growing or dge to ren verge veg be a mini . Construc- run-off to ge scrape els remair ack verge undertaking back ex opriate he g original ompaction rainage lef	7m) and any s s and to a heig ssment. and distributed g into annual n or adjacent t nove any stepp getation to exp mum of 1.5m) ct path levels t be discharged arisings to be in below path s Option 1. Main vegetation to ing a phased p kisting verge to erbicide to enc path base wide of surface.	smaller ht of d across o bridge bed level ose full and o max 1:: l off the utilised to urface ntain a width of rogramm o expose roaching th erge to ng along
Chainage     Slope     Grad.     Width       (linm)     Dir     (%/deg)     (m)    Current Path Condition  Description of Proposed Path Works	Chainage	Slope	Grad.	Width	Current Path Condition		•	on of Pronosed	Path M/o	rks	

Path Sur	rvey ai	nd Specif	fication	Sheet	Sheet No. 7						
Location:	Castle	Loch, Loch	maben, I	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	erson		
Path:	Castle	Loch Circu	lar Route		Date:	05.10.20	Section:	Chaina	ge (545 – 591	linm)	
545 - 571 571 - 591 591	~	/	0.6 0.4	Path remains level with surface composed of compacted Type 1 aggregate.	than 3.5m fro encroaching y 50mm, unless All woody versite within ag Barriers/Oth No works reco Path construe Option 1: Car width of prevuingrade surfs camber throup path and into reform path y levels to allow Option 2: Ass usable path s 1m on either of maintenar original path ground veget (requires PA1 Drainage: For path consistent the edges of Signage: Incorporate s	erhanging vegetatic om finished path su vegetation not less s otherwise noted v getation to be cut i greed locations. <b>er features:</b>	rface (preferred than 1m from p within this tech nto manageable g: all encroaching h (estimated to UPU/CLLCT/001 v surface water er side. All verg ished verge lev n-off. works, as detail gularly cutting b n to be given to carefully scrapi is to apply appr h not exceeding ). Occasional co and 2: Install de off and to allev poate as require ection and clear	d height 3 boath edge nical asse e lengths be a min Constru run-off to ge scrape els remain ed within back verge undertak ng back e opriate ho g original ompaction rainage le viate any p ed and to	2.7m) and any s as and to a heig ssment. and distributed getation to exp imum of 1.5m) ct path levels t be discharged arisings to be on below path s Option 1. Main evegetation to ing a phased p xisting verge to erbicide to enc path base width of surface. tts along the ve possible pondin a min width of	maller ht of d across d across d across d across o max 1:40 o max 1:40 o ff the utilised to urface ntain a width of rogramme o expose roaching th erge to ng along 200mm.	
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descripti	on of Proposed	Path Wo	rks		

Path Sur	vey ar	nd Specif	ication	Sheet	Sheet No. 8								
Location:	Castle	Loch, Loch	maben, I	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ander	rson				
Path:	Castle	Loch Circul	lar Route		Date:	05.10.20	Section:	Chainag	ge (591 linm)				
591	/	/	/	<image/> <text><image/><image/></text>	height of 50m Maintain all v times. Barriers/Othe Maintain gate Path construct Option 1: Infi walking/whee Additional cou and back onto Drainage: Install drainag alleviate any p min width of Signage: Incorporate s	thing vegetation not m, unless otherwise egetation around 1- er features: in a good and safe ction and surfacing: Il potholes and/or w eling surface along th nsideration to be giv o farm track (estimation ge letts along the ver possible ponding alo	less than 1m f e noted within way opening g working order heel ruts to m his section of t en to surfacin ted at 5 linm) rge to better e ng the track s tion and clear	from finish this techn gate to ens	ned track edge nical assessme sure easy oper reasonably dry r route. k path throug face water run cate as require	s and to a nt. hing at all and level h side gate -off and to ed and to a			
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Description	n of Proposed	Path Wor	ks				

Path Sur	rvey a	nd Specif	icatior	Sheet	Sheet No. 9							
Location:	Castle	Loch, Loch	maben, I	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	erson			
Path:	Castle	Loch Circul	ar Route		Date:	05.10.20	Section:	Chaina	ge (591 – 660	) linm)		
591 - 630 630	↔	/	3.0	Route exists onto farm track at chainage 591 linm. Track composed of compacted aggregate with loose stones across surface. Track width typically 3m but wider at entrance gate.	height of 50m	lanagement: hing vegetation not nm, unless otherwise regetation around 1-	noted within	this tech	nical assessme	nt.		
				Photo 15: chainage 630 linm-general photo looking forward	Option 1: Infi walking/whee Drainage: Install drainag	uired. <b>ction and surfacing:</b> Il potholes and/or w eling surface along th ge letts along the ver possible ponding alo	nis section of t rge to better e	he circula nable sur	ar route. face water run	o-off and to		
				General photo taken looking forward and showing notable puddles formed in wheel ruts on track.	Signage: No works req	uired.						
630 - 660	<►	/	3.0	Route continues along line of farm track.								
660	/	/	1	Photo 16: chainage 560 linm - general photo left to side coute (closed)								
				General photo taken looking to left of track and showing woodland path (closed at time of survey).								
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Description	n of Proposed	Path Wo	rks			

Path Sur	rvey a	y and Specification Sheet Sheet No. 10									
Location:	Castle	Loch, Loch	maben, I	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	erson		
Path:	Castle	Loch Circul	lar Route		Date:	05.10.20	Section:	Chaina	ge (660 – 685	i linm)	
Path: 660 - 670 670 670 - 685 685	Castle	Loch Circul	3.0 / 3.0 /	Route continues along line of farm track. From the second	Vegetation N Clear encroad height of 50n Maintain all v times. Barriers/Oth Incorporate of required. Rep Path constru Option 1: Infi walking/whe Drainage: Install draina	<b>Management:</b> ching vegetation not nm, unless otherwise vegetation around 1- <b>er features:</b> data collection from olace batteries, as re <b>ction and surfacing:</b> ill potholes and/or w eling surface along t ge letts along the ve possible ponding alo 200mm.	less than 1m f e noted within way opening g counters into a commended b vheel ruts to m his section of t	from finis this tech gate to en annual ma y manufa aintain a he circula	hed track edge nical assessme isure easy oper aintenance sch icturer. reasonably dry ar route.	s and to a nt. ning at all edule or as and level	
Chainage	Slope	Grad.	Width	Photo 18: chainage 685 linm - general photo of path looking forward General photo taken looking forward. Current Path Condition		Descriptio	n of Proposed	Dath M/-	rico		
(linm)	Dir	(%/deg)	(m)			Descriptio	ii oi Fioposed		173		

Path Sur	vey a	nd Specif	icatior	Sheet	Sheet No. 11							
Location:	Castle	Loch, Loch	maben, I	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	rson			
Path:	Castle	Loch Circu	ar Route		Date:	05.10.20	Section:	Chaina	ge (685 – 110	0 linm)		
Path:         685 - 1085         1085         1085 - 1091		Loch Circul	3.0 /	Route continues south along line of farm track. Track in generally good condition with isolated puddles in ruts along outer edges         Image: Content of the second se	Vegetation M Clear any over than 3.5m fro encroaching v 50mm, unless All woody veg site within ag Barriers/Othe Incorporate s vegetation gr dust hardstar Path construe Option 1: Infi walking/whee Drainage: Install drainag alleviate any min width of Signage: Incorporate s	05.10.20 lanagement: rhanging vegetation om finished path survegetation not less t s otherwise noted w getation to be cut in reed locations. er features: eat cleaning into an owing around and unding under seating and ction and surfacing: Il potholes and/or we eling surface along the ve possible ponding alo	h, along length face (preferred han 1m from p ithin this tech to manageable nual maintena ander bench se area and to fo wheel ruts to m his section of t rge to better e ong the track s	of route, d height 3 bath edge nical asses e lengths a nce schec at. Optior rm link pa aintain a the circula enable sur urface. Lo	to a height of f .7m) and any s s and to a heig ssment. and distributed hule. Regularly h: install Type 2 th to farm trac reasonably dry r route. face water run cate as require	not less maller ht of l across cut all L/whin k. and level -off and to ad and to a		
1091 - 1100	/	/	3.0	Photo 20: chainage 1091 linm - general photo of recycled plastic bench General photo showing recycled plastic bench facing west. Route continues south along line of farm track. Track in generally good condition.								
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	n of Proposed	Path Wo	rks			

Path Sur	vey a	nd Specif	ficatior	) Sheet					Sheet No.	12
Location:	Castle	Loch, Loch	maben,	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	erson	
Path:	Castle	Loch Circu	lar Route	2	Date:	05.10.20	Section:	Chaina	ge (1100 – 11	L67 linm)
Path: 1100 1100 - 1167 1167	/	Loch Circu	lar Route / 0.4	Photo 21: chainage 100 linm general photo looking southImage: Description of the second seco	Vegetation N Clear any over than 3.5m fro encroaching 50mm, unles All woody ver site within ag Barriers/Oth Maintain gate Path constru Option 1: Infi walking/whe Additional co and back ont Drainage: Install draina alleviate any min width of Signage: Incorporate s post base int	05.10.20 Management: erhanging vegetation om finished path survegetation not less s otherwise noted w getation to be cut ir greed locations. er features: e in a good and safe ction and surfacing ill potholes and/or v eling surface along to insideration to be gi o farm track (estimation ge letts along the ve possible ponding alo	n, along length face (preferrent than 1m from p vithin this tech to manageable working order wheel ruts to m this section of the vheel ruts to m this section of the tech of the track s ong the track s	of route, d height 3 path edge nical asse e lengths r. naintain a the circula ng short lin enable sur	to a height of 3.7m) and any s and to a heig ssment. and distributed reasonably dry ar route. nk path throug face water rur ocate as require	not less maller ht of d across v and level h side gate n-off and to ad and to a
				general photo looking forward general photo looking back General photos looking forward (north) and back (south) along path; showing narrowed surface width and exposed aggregate surface.						
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	on of Proposed	l Path Wo	rks	

Path Sur	vey a	nd Specif	icatior	Sheet					Sheet No.	13	
Location:	Castle	Loch, Loch	maben, I	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	rson		
Path:	Castle	Loch Circul	ar Route		Date:	05.10.20	Section:	Chaina	ge (1167 – 12	205 linm)	
1167 - 1205	<b>+</b>	/	0.4	Path continues north along field edge with unchanged surface width and surface composition	than 3.5m fro	erhanging vegetation om finished path sur	face (preferred	d height 3	.7m) and any s	maller	
1205	/	1		L219 linn	50mm, unles All woody veg		ithin this tech	nical asses	ssment.		
				1207 linm Photo 23: chainage 1205 linm - general photo looking back General photo taken looking forward and showing limited widening of path width to 1.0m between chainage 1207 and 1219 linm. Surface slightly more exposed at this section, possible dure to water dripping off overhanging branches.	Path construction and surfacing: Option 1: Carefully scrape back all encroaching verge vegetation to expose full width of previously installed path (estimated to be a minimum of 1.5m) and upgrade surface to Drawing CL/UPU/CLLCT/001. Construct path levels to max camber throughout to allow any surface water run-off to be discharged off the path and into verge area on either side. All verge scrape arisings to be utilised reform path verges, ensuring finished verge levels remain below path surface levels to allow surface water run-off.						
1205 - 1473 1473	<b>+</b>	/	0.4	Path continues north along field edge with unchanged surface composition. Width narrows back to 0.4m from chainage 1219 linm. Path undulates (3no.) between chainages 1382 – 1403 linm.	usable path s 1m on either of maintenan original path ground veget	sumes no upgrade w urface width by reg side. Consideration ace works aimed at o width. Alternative is ration and to a width L/PA6a certification)	ularly cutting b to be given to carefully scrapi s to apply appr n not exceeding	ack verge undertaki ng back ex opriate he g original	vegetation to ing a phased p xisting verge to erbicide to enc path base wid	a width of rogramme o expose roaching	
				Photo 24: chainage 1473 linm - general photo looking south west	better enable	struction options 1 a e surface water run- the path surface. Lo Juired.	off and to allev	iate any p	ossible pondi	ng along	
				Photo showing short 12 linm unsurfaced path that turns left off main route and ends at bank of Valison Burn							
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	n of Proposed	Path Wo	rks		

Path Sur	vey aı	nd Specif	ication	Sheet					Sheet No.	14
Location:	Castle	Loch, Lochi	naben, I	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	erson	
Path:	Castle	Loch Circul	ar Route		Date:	05.10.20	Section:	Chaina	ge (1473 – 15	65 linm)
1473	/	/	/	Photo 24a: chainage 1473 linm- general photo looking forward General photo taken looking forward	3.5m from fini vegetation not otherwise not All woody vege within agreed <b>Barriers/Othe</b> Incorporate br Remove all veg Upfill path sur	hanging vegetation, a shed path surface (pr eless than 1m from pr ed within this technic etation to be cut into locations. r features: idge and ramp condit getation growing on c face approaches to be lace full structure to e	eferred height ath edges and al assessment. manageable le cion inspection or adjacent to le ridge to remov	3.7m) and to a heigh engths and into annu pridge stru e any step	d any smaller er t of 50mm, unle d distributed acr ual maintenance ucture and acces oped level variar	eross site ess schedule. es ramps. nces.
1473 - 1557	<b>+</b>	/	0.3	Path continues north along eastern side of Valison Burn with slightly narrowed surface width and unchanged surface composition of compacted aggregate. Timber bench located to right of path (east) at chainage 1529 linm.	<ul> <li>Option 1: Carefully scrape back all encroaching verge vegetation to expose full widt of previously installed path (estimated to be a minimum of 1.5m) and upgrade surfate to Drawing CL/UPU/CLLCT/001. Construct path levels to max 1:40 camber througho to allow any surface water run-off to be discharged off the path and into verge area on either side. All verge scrape arisings to be utilised to reform path verges, ensuring finished verge levels remain below path surface levels to allow surface water run-off</li> <li>Option 2: Assumes no upgrade works, as detailed within Option 1. Maintain usable path surface width by regularly cutting back verge vegetation to a width of 1m on either side. Consideration to be given to undertaking a phased programme of maintenance works aimed at carefully scraping back existing verge to expose origin. path width. Alternative is to apply appropriate herbicide to encroaching ground vegetation). Occasional compaction of surface.</li> <li>Drainage:</li> <li>For path construction options 1 and 2: Install drainage letts along the verge to bettee enable surface water run-off and to alleviate any possible ponding along the edges of the path surface. Locate as required and to a min width of 200mm.</li> </ul>					
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition	Description of Proposed Path Works					

Path Sur	vey a	nd Specif	icatior	n Sheet					Sheet No.	15
Location:	Castle	Loch, Loch	maben,	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	rson	
Path:	Castle	Loch Circu	lar Route	2	Date:	05.10.20	Section:	Chaina	ge <b>(1665 –</b> 1	1590 linm)
1665 - 1575 1575 - 1578 1578 - 1590 1590		/	1.0 1.0 1.0 /	Photo 26: chainage 1575 linn general photo looking to wardGeneral photos showing bridge over Valison Burn (note: sign attached to bridge states "Vallison Burn"). Bridge measured at 1000mm wide, metal parapets at 1120 height, decking gaps at 40mm. Bridge in generally reasonable condition but not subjected to a thorough inspection.Short timber ramp leading down from bridge to start of boardwalk. Decking timbers have aftermarket anti-slip strips applied. Gradient not measured.Timber boardwalk with 660mm wide aftermarket anti-slip strips applied to decking. Boardwalk structure and decking (150 x 50mm boards) remains sound. No edge rails to decking and gaps between decking boards measured at 35 – 40mm.Import 1620 linn Photo 27: chainage 1590 finm - general photo looking forwardPhoto 27a: chainage 1590 linm - general photo looking back back along boardwalk, showing location of side link to bird hide (chainage 1620 linm)	Vegetation N Clear any over than 3.5m from encroaching within All woody very site within ag Barriers/Oth Incorporate b schedule. Ren access ramps level variance 1.5m width with Path construe Boardwalk: F less than 160 walkway at a anticipated with regular passing place	lanagement: rhanging vegetation om finished deck surf vegetation not less th this technical assess getation to be cut int reed locations. er features: move all vegetation ge . Upfill path surface a es. Option: to replace ith reduced access rar ction and surfacing: temove existing raise 0mm and to Drawing finished height great rater levels (to be ago g places (not exceed to be constructed to T/002 Detail C.	, along length face (preferren han 1m from b ment. to manageable dition inspecti growing on or approaches to full structure t mps) ed walkway an g No. CL/LLW/ ter than existi reed). Conside ding 50m apar	of route, f d height 3. boardwalk e lengths a on into an adjacent t b bridge to o enhance d replace CLLCT/002 ng and to eration to l t) along ro	to a height o 7m) and any edges, unles nd distribute nual mainte o bridge stru remove any accessibility with new; to 2. Construct accommoda be given to i pute of raised	f not less / smaller ss otherwise ed across nance ucture and / stepped (typically o a width no new raised te maximun ncorporating d walkway.
Chainage	Slope	Grad.	Width	Current Path Condition	1	<b>–</b> • •	n of Proposed	- · · · · · ·		

Path Sur	vey a	nd Specif	fication	n Sheet					Sheet No.	16		
Location:	Castle	Loch, Loch	maben, I	Dumfries and Galloway	Weather:     Dry, sunny intervals     Surveyor:     G Anderson       Date:     05.10.20     Section:     Chainage (1590 – 1620 linm)							
Path:	Castle	Loch Circul	lar Route	2	Date:	05.10.20	Section:	Chaina	ge (1590 – 16	520 linm)		
1590 - 1620 1620		/	1.0	Route continues as timber boardwalk with 660mm wide aftermarket anti-slip strips applied to decking. Boardwalk height above water level is variable and, at the time of the survey, was measured at 470mm at chainage 1598 linm.	Vegetation Management:         Clear any overhanging vegetation, along length of route, to a height of than 3.5m from finished deck surface (preferred height 3.7m) and any encroaching vegetation not less than 1m from boardwalk edges, unles noted within this technical assessment.         All woody vegetation to be cut into manageable lengths and distribute site within agreed locations.         Barriers/Other features:         No works required.         Path construction and surfacing:         Boardwalk: Remove existing raised walkway and replace with new; to less than 1600mm and to Drawing No. CL/LLW/CLLCT/002. Construct r walkway at a finished height greater than existing and to accommodat anticipated water levels (to be agreed). Consideration to be given to in regular passing places (not exceeding 50m apart) along route of raised Passing places to be constructed to general detail shown within Drawin CL/LLW/CLLCT/002 Detail C.         Drainage:       No works required.         Signage:       No works required.		to a height of .7m) and any s edges, unless and distributed with new; to a 2. Construct ne accommodate be given to inc oute of raised	not less maller otherwise d across d across d across e wraised e maximum corporating walkway.				
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	n of Proposed	Path Wo	rks			

Path Sur	vey a	nd Specif	ication	Sheet					Sheet No.	17
Location:	Castle	Loch, Loch	maben, I	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	erson	
Path:	Castle	Loch Circul	lar Route		Date:	05.10.20	Section:	Chaina	ge (1620 – 17	724 linm)
/		/	/	<image/> General photo of main route taken looking forward and showing mesh covered (from chainage 1620 linm) timber boardwalk. Surface height above water level was generally near surface height above water level was generally measured at 400mm at time of survey and reduces to 250mm near end of boardwalk at chainage 1620 linm)	than 3.5m fro encroaching v noted within All woody veg site within ag Barriers/Othe Structure and this study. Path construct Boardwalk: R less than 1600 walkway at a anticipated w regular passin Passing places	rhanging vegetation m finished deck surf regetation not less th this technical assess getation to be cut inter- reed locations. <b>er features:</b> ongoing maintenan <b>ction and surfacing:</b> emove existing raise Omm and to Drawing finished height great ater levels (to be ag g places (not exceed to be constructed to T/002 Detail C.	ace (preferred han 1m from b ment. to manageable ce of bird hide g No. CL/LLW/ ter than existi reed). Conside ding 50m apar	d height 3 boardwall e lengths a e not inclu d replace CLLCT/00 ng and to eration to t) along re	.7m) and any s edges, unless and distributed uded within the with new; to a 2. Construct n accommodate be given to incoute of raised	smaller s otherwise d across e scope of a width not ew raised e maximum corporating walkway.
Chainage	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Description	n of Proposed	Path Wo	rks	

Path Sur	vey a	nd Specif	ication	Sheet					Sheet No.	18
Location:	Castle	Loch, Lochi	naben, I	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	erson	
Path:	Castle	Loch Circul	ar Route	9	Date:	05.10.20	Section:	Chaina	ge <b>(1724</b> – 17	770 linm)
1724 1724 - 1749 1749 - 1770	•	/ / 12%/7deg	/ 0.8 0.6 Width	Photo 31: chainage 1722 linm - general photo looking forwardPhoto 31a: chainage 1722 linm - general photo looking backGeneral photo showing end of boardwalk looking forward (Photo 31) and looking back (Photo 31a). Timber boardwalk transitions to compacted aggregate path at chainage 1724 linm.Route continues west. Surface composed of compacted aggregate and to a width of approx. 800mm.Photo 32: chainage 1749 linm general photo looking to a width of approx. 800mm.Route ramps steeply upward by large Beech tree to right. Gradient measured at 12%/7deg. Surface remains as compacted aggregate and to a width or approx. 0.6m. Possible link to right of path would allow creation of a reduced gradient ramp for less able users. Top of ramp at chainage 1770 linm.	than 3.5m fro encroaching v 50mm, unles All woody ver site within ag <b>Barriers/Oth</b> No works rec <b>Path constru</b> <b>Option 1:</b> Car width of prev upgrade surfa camber throu path and into reform path v levels to allow <b>Option 1a:</b> Co gradient frier passes under forward, befo <b>Option 2:</b> Ass usable path s 1m on either of maintenar original path ground veget	erhanging vegetation om finished path survegetation not less s otherwise noted v getation to be cut in greed locations. er features: quired. ction and surfacing refully scrape back a viously installed path ace to Drawing CL/L ughout to allow any overge area on either verges, ensuring fini- w surface water run onstruct additional s ondly alternative. Alter mature beech trees ore reconnecting wi surface width by reg side. Consideration for width. Alternative is tation and to a width L/PA6a certification quired.	rface (preferred than 1m from p within this techn to manageable all encroaching h (estimated to JPU/CLLCT/001 surface water er side. All verg ished verge leve off. side link path to ernative route of s to right of exi th existing path vorks, as detaile ularly cutting b to be given to carefully scrapi s to apply appr h not exceeding	d height 3 bath edge nical asse e lengths be a min Constru run-off to ge scrape els remain o provide extends to sting path n at top of ed within back verge undertak ng back e opriate ho g original	.7m) and any s s and to a heig ssment. and distributed getation to exp imum of 1.5m ct path levels to be discharged arisings to be n below path s users with a m o approx. 40lin n, as viewed lo f slope. Option 1. Mai e vegetation to ing a phased p xisting verge to erbicide to end path base wid	smaller tht of d across d acro
Chainage (linm)	Slope Dir	Grad. (%/deg)	(m)	Current Path Condition		Descriptio	on of Proposed	Path Wo	rks	

Path Sur	vey a	nd Specif	ication	Sheet					Sheet No.	19
Location:	Castle	Loch, Loch	maben, I	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	erson	·
Path:	Castle	Loch Circul	ar Route		Date:	05.10.20	Section:	Chaina	nge (1770 – 18	04 linm)
1770 - 1804		/	0.6	Photo 33: chainage 1770 linm - general photo looking forward         Route continues from top of ramp, at chainage 1770 linm, to end of path section at chainage 1804 linm. Path surface continues as compacted aggregate to a width of approx. 0.6m.         Photo 34: chainage 1804 linm - general photo looking back         Comparison of the section general photo looking back         General photo looking back from path section end.	than 3.5m fro encroaching v to a height of All woody veg site within ag <b>Barriers/Othe</b> No works req <b>Path construe</b> <b>Option 1:</b> Car width of prev upgrade surfa camber throu path and into reform path v levels to allow <b>Option 2:</b> Ass usable path su 1m on either of maintenan original path v	rhanging vegetation om finished path surf vegetation not less the 50mm, unless other getation to be cut inter reed locations. <b>er features:</b> uired. <b>ction and surfacing:</b> efully scrape back al iously installed path ace to Drawing CL/UI ghout to allow any so verge area on either verges, ensuring finis v surface water run-or umes no upgrade wo urface width by regu side. Consideration to ce works aimed at ca width. Alternative is ation and to a width /PA6a certification). uired.	ace (preferred nan 1m from f wise noted w o manageable l encroaching (estimated to PU/CLLCT/001 urface water f r side. All verg hed verge leve off. orks, as detaile larly cutting b to be given to arefully scrapi to apply appro- not exceeding	d height 3 inished b ithin this e lengths be a min . Constru run-off to ge scrape els remain ack verge undertak ng back e opriate ho g original	8.7m) and any s oardwalk/path technical asses and distributed getation to exp imum of 1.5m) ict path levels to be discharged arisings to be o n below path su Option 1. Mair e vegetation to sing a phased pr existing verge to erbicide to enci path base widt	maller edges and sment. across across and o max 1:40 off the utilised to urface ntain a width of rogramme o expose roaching
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Description	n of Proposed	Path Wo	orks	

Path Sur	vey aı	nd Specif	ficatior	n Sheet						Sheet No.	20	
Location:	Castle	Loch, Loch	maben,	Dumfries and Galloway		Weather:	Dry, sunny intervals	Surveyor:	G Ande	rson	·	
Path:	Castle	Loch Circul	lar Route	9		Date:	05.10.20	Section:	Chaina	ge (1804 – 19	07 linm)	
1804	/	/	/	Photo 35: chainage 1804 linm- general photo of interpretation and timber fingerpost General photos showing inter fingerpost by Lochmaben Castle	e carparking area.	<ul> <li>No works required.</li> <li>Path construction and surfacing: No works required.</li> <li>Drainage: No works required.</li> <li>Signage: Incorporate sign condition inspection and clearance of ground vegetation arou</li> </ul>						
1804 - 1907	↔	/	2.4	Route proceeds along Lochmak composed of heavily compacte at approx. 2.4m width at chains	ben Castle access track and is ed aggregate. Track measured	post base into	o annual maintenance	e schedule. In	•	•		
1907	/			Photo 36: chainage 1907 Inm - general photo showing desire line to west General photos showing well us Some evidence that this routed with areas of exposed aggregat within this survey.	has been surfaced in the path							
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path	h Condition		Description	n of Proposed	Path Wo	rks		

Path Sur	vey a	nd Specif	ication	Sheet					Sheet No.	21	
Location:	Castle	Loch, Loch	maben, I	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	erson		
Path:	Castle	Loch Circu	ar Route		Date:	05.10.20	Section:	Chaina	ge (2010 – 2	176 linm)	
2010	<b>+</b>	/	2.4	Photo 37: chainage 2010 linm - general photo looking back General photo showing Lochmaben Castle access road and cattle grid which was largely infilled with silt/debris at the time of survey.							
2020 2020 2020 - 2176	/	/	1	The of survey.	-	o annual maintenan					
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	n of Proposed	Path Wo	rks		

Path Sur	vey a	nd Specif	ication	Sheet					Sheet No.	22
Location:	Castle	Loch, Lochi	maben, I	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	rson	
Path:	Castle	Loch Circul	ar Route	2	Date:	05.10.20	Section:	Chainag	ge (2176 – 2	299 linm)
2176	+	/	3.0	Photo 39: Chainage 2176 linm- general photo looking forward General photo looking forward and showing farm access road/track. Surface transitions from compacted aggregate to	than 3.5m fro All woody veg site within ag <b>Barriers/Oth</b> Consideration place to allow	erhanging vegetation om track surface (pre- getation to be cut in reed locations. er features: n to be given to rema v possible future rein ction and surfacing:	eferred height to manageable oving existing ;	3.7m). e lengths a gate. Optio	nd distribute	d within
2176 - 2299	<b>+</b>	/	3.0	bound bitmac at this point. Route continues on farm access road with bitmac surface.	Drainage: No works required.					
2299	+	/	1.0	Photo 40: chainage 2299 lining general photo looking north at point route departs from farm access road and heads into woodland area via gentle downhill ramp before levelling out past gate. 1-way steel self-closing access gate installed at entrance to wood (chainage 2305) and was propped open at time of survey. Route surface returns to compacted Type 1 aggregate, with some loose surface stones, at approx. 1.0m in width.	-	sign condition inspec		ance of g	ound vegeta	tion aroun
2299 - 2305	<b>+</b>	/	1.0	Route surface continues through woodland. Path surface continues as compacted aggregate at approx. 1.0m width.						
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	n of Proposed	Path Wor	ks	

Path Sur	vey a	nd Specif	icatior	n Sheet					Sheet No.	23
Location:	Castle	Loch, Loch	maben, I	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	erson	L
Path:	Castle	Loch Circu	lar Route	2	Date:	05.10.20	Section:	Chaina	ge <b>(2305 –</b> 1	L431 linm)
2305	<b>+</b>	/	1.0	Photo 41: chainaice 2305 linn - general photo looking for ward	than 3.5m fro encroaching 50mm, unles All woody veg	erhanging vegetation om finished path sur vegetation not less t s otherwise noted w getation to be cut in greed locations. <b>er features:</b>	face (preferred than 1m from p vithin this tech	d height 3 bath edge nical asse	.7m) and any s and to a he ssment.	smaller ight of
2305 - 2431	↔	/	1.0	General photo taken looking forward. Route continues through woodland to north. Surface remains consistent with compacted Type 1 aggregate. Width varies due to encroaching side vegetation but generally measured at 1.0m.	ies upgrade surface to Drawing CL/UPU/CLLCT/001. Construct path levels to max 1:					
2431	/	/	/	Photo 42: chainage 2431 linm - general photo looking forward and showing timber boardwalk General photo looking forward and showing transition from compacted aggregate path to timber boardwalk with steel mesh anti-slip measures applied. Transition between path and boardwalk has 10-20mm step. Boardwalk measured at	Signage:         h       Incorporate sign condition inspection and clearance of ground vegetation ar					aintain o a width of programme to expose acroaching dth verge to ling along of 200mm.
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	1400mm wide with gaps between decking boards of 30mm. Measured height above ground was 250-300mm. Current Path Condition		Descriptio	n of Proposed	Path Wo	rks	

Path Sur	rvey ai	nd Specif	ication	Sheet				Sheet No.	24				
Location:	Castle	Loch, Loch	maben, I	Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Anderson					
Path:	Castle	Loch Circul	ar Route	2	Date:	05.10.20	Section:	Chainage (2431 – 2460 linm					
2431 - 2460 2460		/	1.4	Route continues along boardwalk measured at 1.4m width with steel mesh applied to surface as anti-slip measure.	Vegetation N Clear any ove than 3.5m fro encroaching v noted within All woody veg site within ag Barriers/Othe Structure and this study. Path construct Boardwalk: R replace with r install toe boa Drawing No. 0 detail shown Option C: Ren	lanagement: rhanging vegetation im finished deck surf vegetation not less th this technical assess getation to be cut int reed locations. er features: ongoing maintenan ction and surfacing: etain existing board new GRP anti-slip str ards to either edge of CL/LLW/CLLCT/002. within Drawing No. move existing raised Dmm and to Drawing uired.	, along length face (preferren nan 1m from I ment. to manageable ce of bird hide walk structure ips (50mm wi f existing stru Option B: Inst CL/LLW/CLLCT walkway and	of route, to a height of d height 3.7m) and any s boardwalk edges, unless e lengths and distributed e not included within the de x 1200mm long). Opt focture and as detailed wi all a single passing place r/002 Detail C. replace with new; to a w	not less smaller otherwise d across e scope of mesh and tion A: thin to general				
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Description	n of Proposed	Path Works					

Path Sur	vey aı	nd Specif	ication	Sheet					Sheet No.	25
Location:	Castle	Loch, Lochi	maben, I	Dumfries and GallowayWeather:Dry, sunny intervalsSurveyor:G Anderson						
Path:	Castle	Loch Circul	ar Route		Date:	05.10.20	Section:	Chaina	ge (2460 – 25	02 linm)
2460 - 2502	/	/	1.2	WeightProtec	than 3.5m fro encroaching v 50mm, unless All woody veg site within ag <b>Barriers/Othe</b> No works req <b>Path construe</b> <b>Option 1:</b> Car width of prev upgrade surfa camber throu path and into reform path v levels to allow <b>Option 2:</b> Ass usable path su 1m on either of maintenan original path ground veget (requires PA1 <b>Drainage:</b> For path cons better enable	rhanging vegetation, m finished path surf regetation not less th s otherwise noted wi getation to be cut int reed locations. <b>er features:</b> uired. <b>ction and surfacing:</b> efully scrape back al iously installed path ice to Drawing CL/UF ghout to allow any s verge area on either rerges, ensuring finis v surface water run-or umes no upgrade wo urface width by regu side. Consideration t ce works aimed at ca width. Alternative is ation and to a width /PA6a certification). truction options 1 ar surface water run-or the path surface. Loc	ace (preferred han 1m from p thin this tech o manageable l encroaching (estimated to PU/CLLCT/001 urface water r side. All ver hed verge lev off. orks, as detail larly cutting b co be given to arefully scrapi to apply appr not exceeding Occasional co and 2: Install du ff and to allev	d height 3 bath edge nical asses e lengths a e lengths a be a min . Constru- run-off to ge scrape els remain ed within hack verge undertak ng back e opriate he goriginal ompaction	2.7m) and any sustained and to a height sement. and distributed di	maller ht of across ose full and o max 1:40 off the itilised to urface tain a width of ogramme expose toaching h
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptior	n of Proposed	Path Wo	rks	

Path Sur	vey a	nd Spec	ificatio	on Sheet					Sheet No	. 26		
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:Dry, sunny intervalsSurveyor:G Anderson							
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	Section:	Chaina	ge (2502 –	2560 lin	າm)	
2502 - 2511	++	/	1.2	Route continues north through woodland. Route meanders gently through wooded area. Surface remains as compacted aggregate to a width of 1.2m.	than 3.5m fro encroaching	rhanging vegetation om finished path surf vegetation not less th	ace (preferred nan 1m from p	l height 3. ath edges	7m) and an and to a he	y smaller		
2511	/	/	/	Photo 46: chainage 2503 linm general photo of path surface	All woody veg within agreed Barriers/Othe No works req Path construe Option 1: Car width of prev	er features: uired. ction and surfacing: refully scrape back al riously installed path	o manageable l encroaching (estimated to	e lengths a verge vege be a minin	nd distribut etation to e num of 1.5	xpose ful m) and	11	
2511 - 2530	<b>←</b>	/	1.2	General photo showing exposed Terram geotextile in centre of path surface. Route continues north through woodland and meanders gently through wooded area. Surface remains as compacted aggregate to a width of 1.2m	camber throu path and into reform path v	ace to Drawing CL/UI oghout to allow any s overge area on eithe verges, ensuring finis v surface water run-u	urface water r r side. All verg hed verge leve	run-off to ge scrape a	be discharg arisings to b	ed off the	ie d to	
2530	/	/	/		usable path s 1m on either of maintenan original path ground veget PA1/PA6a cer	umes no upgrade we urface width by regu side. Consideration t ice works aimed at ca width. Alternative is ation and to a width rtification). Occasion	larly cutting b to be given to arefully scrapin to apply appro not exceeding	ack verge undertakin ng back ex opriate he g original p	vegetation ng a phasec isting verge rbicide to e wath base w	to a widt I progran to expos ncroachi	nme se ing	
				Photo 47: chainage 2530 linm - general photo of path surface General photo looking forward at point route exists woodland into open ground.	better enable	struction options 1 an e surface water run-c the path surface. Loc uired	off and to allev	iate any p	ossible pon	ding alor	ng	
2530 - 2560	↔		0.6	Route exists into open grassland area and narrows to 0.6mm in width. Surface remains as compacted aggregate throughout. Verges have built up above surface level of path.								
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Description	n of Proposed	Path Wor	ks			

Path Sur	vey a	nd Spec	ificatio	on Sheet					Sheet No.	27
Location:	Castle Loch, Lochmaben, Dumfries and Galloway     Weather:     Dry, sunny intervals     Surveyor:     G And								rson	
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	Section:	Chaina	ge (2560 – 25	97 linm)
2560	/	/	/	Photo 48: chainage 2560 linm - general photo of timber bench General photo showing simple timber bench to right of route.	than 3.5m fro encroaching 50mm, unles All woody ver within agreed Barriers/Oth	erhanging vegetation om finished path surf vegetation not less t s otherwise noted w getation to be cut ini d locations. <b>er features:</b>	face (preferred han 1m from p ithin this techr to manageable	l height 3. ath edges nical asses e lengths a	7m) and any s and to a heig sment. nd distributed	maller ht of
2560 - 2583	↔	/	0.6	Route continues north across open grassland. Surface remains compacted aggregate, to a width of approx. 0.6m, and grass verge levels remain above that of the path surface.	Path constru Option 1: Car width of prev	nove all vegetation g ction and surfacing: refully scrape back al viously installed path ace to Drawing CL/U	l encroaching (estimated to	verge veg be a mini	etation to expo mum of 1.5m)	and
2583 - 2597	<b>++</b>		0.6	Photo 49: chainage 2583 linm -general photo looking forward and showing water retention between chainage 2583 and 2597 linm. Path surface remains as compacted aggregate with verges built higher than path surface and little opportunity for surface water to get off path.	camber throu path and into reform path levels to allow <b>Option 2</b> : Ass usable path s 1m on either of maintenar original path ground veget PA1/PA6a ce <b>Drainage:</b> For path cost better enable	ughout to allow any so overge area on either verges, ensuring finis w surface water run- sumes no upgrade w urface width by regu- side. Consideration face works aimed at c width. Alternative is cation and to a width rtification). Occasion struction options 1 a e surface water run-options 1 a	surface water r r side. All verg shed verge leve off. orks, as detaile larly cutting b to be given to arefully scrapin to apply appro- not exceeding al compaction nd 2: Install dr off and to allev	un-off to ge scrape a els remain ed within ( ack verge undertaking back ex opriate he goriginal p of surface ainage let iate any p	be discharged arisings to be u below path su Option 1. Mair vegetation to ng a phased pr isting verge to rbicide to encr bath base widt e. ts along the ve ossible pondir	off the utilised to urface ntain a width of rogramme o expose roaching h (requires
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	n of Proposed	Path Woi	ks	

Path Sur	vey a	nd Spec	ificatio	n Sheet					Sheet No.	28	
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:         Dry, sunny intervals         Surveyor:         G Anderson						
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	Section:	Chaina	ge (2597 – 26	55 linm)	
2597 - 2619 2619		/	0.6	Route continues north toward corner of open grassland. Ponding no longer present and surface remains as compacted aggregate. Surface width approx. 0.6m and grass verges remain above that of path surface.	Vegetation N Clear any over than 3.5m fro encroaching v 50mm, unles All woody ver within agreed Barriers/Oth Regularly ren	<b>Nanagement:</b> erhanging vegetation om finished path sur vegetation not less t s otherwise noted w getation to be cut in d locations. <b>er features:</b> nove all vegetation g	i, along length face (preferrec han 1m from p ithin this techr to manageable	of route, 1 I height 3. ath edges nical asses I lengths a	to a height of r 7m) and any s and to a heig sment. nd distributed	not less maller ht of	
				General photo looking forward showing short section of 'humped' boardwalk that elevates route over wet section of ground at corner of adjacent land.	<ul> <li>Path construction and surfacing:</li> <li>Option 1: Carefully scrape back all encroaching verge vegetation to expose furwidth of previously installed path (estimated to be a minimum of 1.5m) and upgrade surface to Drawing No. CL/UPU/CLLCT/001. Construct path levels to 1:40 camber throughout to allow any surface water run-off to be discharged of the path and into verge area on either side. All verge scrape arisings to be utit to reform path verges, ensuring finished verge levels remain below path surface water run-off.</li> <li>Option 2: Assumes no upgrade works, as detailed within Option 1. Maintain usable path surface width by regularly cutting back verge vegetation to a widt 1m on either side. Consideration to be given to undertaking a phased program of maintenance works aimed at carefully scraping back existing verge to expooriginal path width. Alternative is to apply appropriate herbicide to encroaching the surface works.</li> </ul>					and els to max irged off be utilised a surface ntain a width of rogramme o expose roaching	
2619 - 2625		/	1.2	Wooden boardwalk section. 1.2m wide with steel mesh applied as anti-slip measure. Stepped transitions between boardwalk and aggregate path where aggregate has worn away.	n						
2625 - 2655	<ul> <li>1.0 Route re-enters woodland and continues north between western boundary of Castle Loch and B7020 carriageway. Path surface remains as compacted aggregate.</li> <li>Drainage: Install min. 225mm dia. piped culve</li> </ul>						vert at corner	of field to	Drawing No. S	SD/PC/01	
					<b>Signage:</b> No works req	juired.					
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition	Description of Proposed Path Works						

Path Sur	vey a	nd Spec	ificatio	on Sheet					Sheet No.	29			
Location:	Castle	estle Loch, Lochmaben, Dumfries and Galloway Weather: Dry, sunny intervals Surveyor: G A											
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	Section:	Chainage (2655 – 2749 linm)					
2655 - 2749 2749 Chainage	/	/ / / Grad.	/ <1.5	Photo 512: chainage 2655 lining         Photo 513: chainage 2655 lining         General photo looking forward         General photo showing route looking forward (photo 51) and side link to left which connects path to roadside lay-by (51a).         Route continues north through wooded area and parallel to Castle Loch on right and B7020 on left. Surface composed of compacted aggregate and is wider at up to 1.5m due to reduced verge build up under canopy.         Photo 52: chainage 2655 lining forward         Photo 52: chainage 2655 lining forward         Seneral photo showing twin wall piped culvert taking water from left to right under path. Culvert almost totally blocked with silt and leaf litter but some very limited flow still remains and stops water overflowing onto path.	Vegetation M Clear any over than 3.5m froe encroaching 5 50mm, unless All woody ver within agreed Barriers/Oth Regularly rem Path construe Option 1: Can width of prev upgrade surfs camber throut path and into reform path of levels to allow Option 2: Ass usable path so 1m on either of maintenar original path ground veget PA1/PA6a ce Drainage: For path const better enable the edges of Clear inlet an within pipe to	Management: erhanging vegetation om finished path sur vegetation not less t s otherwise noted w getation to be cut in d locations. er features: nove all vegetation g ction and surfacing: refully scrape back a <i>v</i> iously installed path ace to Drawing CL/U ughout to allow any so overge area on either verges, ensuring finis w surface water run- sumes no upgrade w surface width by regu- side. Consideration nee works aimed at of width. Alternative is tation and to a width rtification). Occasion struction options 1 a e surface water run- the path surface. Loo of ore-establish full fur on inspection and clear	n, along length face (preferred than 1m from p rithin this techr to manageable growing around Il encroaching (estimated to PU/CLLCT/001 surface water n er side. All verg shed verge leve off. rorks, as detaile ularly cutting b to be given to carefully scrapin to apply appro- not exceeding nal compaction and 2: Install dr off and to allev cate as require piped culvert nctionality. Inco	of route, i d height 3. bath edges hical asses e lengths a d and under verge veg be a mini . Construct run-off to ge scrape els remain ed within i hack verge undertaki ng back es opriate he g original p of surfact rainage let rainage let rainage let d and rod o orporate of	to a height of r 7m) and any s and to a heig sment. and distributed er bench seat. etation to exp mum of 1.5m) t path levels t be discharged arisings to be u below path se Option 1. Mair vegetation to ng a phased path sisting verge to rbicide to enco bath base widt e. ts along the ve ossible pondir a min width of ut accumulate culvert and ass	not less maller ht of l across site l across site ose full and o max 1:40 off the utilised to urface ntain a width of rogramme o expose roaching h (requires erge to ng along 200mm. d material ociated			
(linm)	Dir	(%/deg)	(m)	Current Path Condition		Descriptio	on of Proposed	Path Wo	rks				

Path Sur	vey a	nd Spec	ificatio	on Sheet					Sheet No.	30
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	erson	
Path:	Castle	Loch Circ	ular Rou	te	Date:	Chaina	ge (2749 – 2	810 linm)		
2749 - 2767	<b>+</b>	/	<1.5	Route continues north through wooded area and parallel to Castle Loch on right and B7020 on left. Surface composed of compacted aggregate and to a width of up to 1.5m.	Clear any ove than 3.5m fro	Management: erhanging vegetation om finished path sur	face (preferred	height 3	.7m) and any s	smaller
2767	/	/	/	Photo 53: chainage-2767 linm - general photo looking forward	50mm, unless All woody ve within agreed Barriers/Oth Regularly ren Path constru	er features: nove all vegetation g action and surfacing	vithin this techr to manageable growing around	hical asses lengths a	ssment. and distributed er bench seat.	d across site
2767 - 2776	↔	/	/	General photo looking forward and showing widened muddy section on path with by-pass route to left, around tree. General wear on by-pass suggests that this is a longer-term issue. Route continues north through shaded woodland edge. Path surface composed of compacted aggregate. Accumulated leaf	width of prev upgrade surf camber throu path and into reform path	refully scrape back a viously installed path face to Drawing CL/L ughout to allow any overge area on eithe verges, ensuring fini w surface water run	n (estimated to IPU/CLLCT/001 surface water r er side. All verg shed verge leve	be a mini . Construc un-off to ge scrape	mum of 1.5m ct path levels t be dischargec arisings to be	) and to max 1:40 I off the utilised to
2776 - 2797	↔	/	1.2	litter and silt has allowed mud to form over surface. Muddy section ends at chainage 2776 linm and path surface returns to exposed compacted aggregate. Path runs close to	scrape accun from path ed	sumes no upgrade w nulated mud from tł Iges. Maintain usab	e path surface e path surface	and dispo width by	ose of arisings regularly cutti	well away ng back
2792 - 2810	<b>+</b>	/	1.2	boundary post and wire fence to left.	undertaking scraping bacl appropriate I exceeding or compaction of <b>Drainage:</b>		e of maintenar «pose original p hing ground ve	ice works bath width getation	aimed at care n. Alternative i and to a width	fully is to apply n not
				Photo 54: chainage 2797 linm- general photo looking forward General photo looking forward and showing muddy section from chainages 2792 - 2810 linm.	No works rec Signage: No works rec					
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	on of Proposed	Path Wo	rks	

Path Sur	vey a	nd Spec	ificatio	n Sheet					Sheet No.	31						
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	G Anderson Chainage (2810 – 2908 linm							
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	Section:	Chaina	ge (2810 – 29	08 linm)						
2810 - 2851	<b>+</b>	/	1.2	Route continues through shaded woodland edge, alongside boundary fence and parallel with B7020 to west. Route narrows slightly at pinch point (chainage 2812 linm) between tree to right and boundary fence (see Photo 54). Surface compose of compacted aggregate with layer of compacted leaf litter, and silt/soil migration from embankment to left, creating a slightly muddy walking surface.	Vegetation Management: Clear any overhanging vegetation, along length of route, to a height of not less than 3.5m from finished path surface (preferred height 3.7m) and any smaller encroaching vegetation not less than 1m from path edges and to a height of 50mm, unless otherwise noted within this technical assessment. All woody vegetation to be cut into manageable lengths and distributed across si within agreed locations.											
2851	/	/	/	Photo 55: chainage 2851 linm- general photo of dragonfly carving General photo showing dragonfly carving to right of path.	<ul> <li>Barriers/Other features:</li> <li>Bench in heavily shaded position with no outlook but engraving shows that it is 'position specific' with engraved reference to "Vendace Burn". Option: consider possible relocation to a nearby and more open situation.</li> <li>Path construction and surfacing:</li> <li>Option 1: Carefully scrape back all encroaching verge vegetation to expose full width of previously installed path (estimated to be a minimum of 1.5m) and upgrade surface to Drawing CL/UPU/CLLCT/001. Construct path levels to max 1:- camber throughout to allow any surface water run-off to be discharged off the path and into verge area on either side. All verge scrape arisings to be utilised to be</li> </ul>											
2851 - 2908	<b>+</b> •	/	1.2	Route continues alongside boundary fence and parallel with B7020 to west. Surface compose of compacted aggregate with surface layer of compacted leaf litter, and silt/soil migration from embankment to left, creating a slightly muddy walking surface.	levels to allow Option 2: Ass scrape accum from path ed	verges, ensuring finis w surface water run- sumes no upgrade w hulated mud from th ges. Maintain usabl tion to a width of 1n	off. orks, as detaile e path surface e path surface	ed within ( and dispo width by i	Dption 1. Gene se of arisings egularly cuttir	erally well away ng back						
2908	/	/	/	Photo 56: chainage 2908 linm - general photo of timber bench and table looking left (west)	undertaking a scraping back appropriate h	a phased programma existing verge to ex nerbicide to encroac ginal path base widt of surface.	e of maintenan pose original p hing ground ve	ce works bath width getation a	aimed at caref . Alternative is and to a width	ully to apply not						
				General photo of rustic timber bench and side table at chainage 2908 linm. Furniture located in heavy shade with no outlook/view to east.	Signage: No works req	uired.										
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	n of Proposed	Path Woi	ks							

Path Sur	vey a	nd Spec	ificatio	on Sheet					Sheet No.	32				
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	intervals '								
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	Section:	Chaina	ge (2908 – 29	24 linm)				
2908 - 2920	<b>↔</b>	/	1.2	Route continues alongside boundary fence and parallel with B7020 to west. Surface compose of compacted aggregate which is cleaner than before as path route moves away from the roadside embankment and into a less shaded woodland area.	Clear any overhanging vegetation, along length of route, to a height of not less than 3.5m from finished path surface (preferred height 3.7m) and any smaller encroaching									
2920 - 2924	<b>+</b> •	/		Photo 57a: chainage 2820 linm general photo looking forward										
				Photo 57a: chainage 282 linm general photo looking forward General photos showing simple, 4m span timber bridge with partial single handrail over Vendace Burn. Decking has aftermarket anti-slip strips applied.	<b>Option 1:</b> Car of previously to Drawing Cl to allow any s either side. A	ction and surfacing: efully scrape back all installed path (estima _/UPU/CLLCT/001. Co surface water run-off .ll verge scrape arising e levels remain below	ated to be a min nstruct path lev to be discharge gs to be utilised	imum of 1 rels to max d off the p to reform	.5m) and upgra 1:40 camber t ath and into ve path verges, er	ade surface hroughout rge area on nsuring				
2924	Ť	/		Photo 58: chainage 2924	accumulated edges. Maint to a width of programme o expose origin encroaching g (requires PA1	umes no upgrade wo mud from the path su ain usable path surfa 1m on either side. Co of maintenance works al path width. Alterna ground vegetation an /PA6a certification).	urface and dispo ce width by reg nsideration to b aimed at carefi ative is to apply d to a width not	ose of arisi ularly cutti pe given to ully scrapir appropria exceeding	ngs well away f ng back verge v undertaking a ng back existing te herbicide to g original path l	rom path vegetation phased verge to				
				General photo showing 14 linm link path to roadside lay-by on	Drainage: No works req Signage:	uired.								
				B7020. Steel 1-way self-closing gate installed at lay-by. Gradient not measured at time of survey.	No works req	uired.								
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	on of Proposed	Path Wo	'ks					

Path Sur	vey a	nd Spec	ificatio	on Sheet					Sheet No.	33						
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	Anderson hainage (2924 – 3008 linm							
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	Section:	Chaina	ge (2924 – 30	08 linm)						
2924 - 2998	<b>+</b>	/	1.7	Route continues north through woodland and remains parallel to the B7020 carriageway. Surface remains as compacted Type 1 aggregate. Path slightly wider along this section at 1.7m.	Clear any ove than 3.5m fro encroaching 50mm, unles	egetation Management: ear any overhanging vegetation, along length of route, to a height of not less han 3.5m from finished path surface (preferred height 3.7m) and any smaller incroaching vegetation not less than 1m from path edges and to a height of Dmm, unless otherwise noted within this technical assessment. All woody										
2998	/		/	Photo 59: chainage 2998 linm- general photo of blocked culvert General photo showing twinwall piped culvert, with simple mortared stone headwalls, taking water under path from left to right. Pipe inlet completely blocked with soil.	agreed locati Barriers/Oth Incorporate g schedule Reg Path constru Option 1: Ca width of prev upgrade surf camber throu path and into reform path	Aregetation to be cut into manageable lengths and distributed across site within agreed locations. Barriers/Other features: Incorporate general inspection and seat cleaning into annual maintenance inchedule Regularly remove all vegetation growing around and under bench seat Path construction and surfacing: Dption 1: Carefully scrape back all encroaching verge vegetation to expose full width of previously installed path (estimated to be a minimum of 1.5m) and upgrade surface to Drawing CL/UPU/CLLCT/001. Construct path levels to max 1 camber throughout to allow any surface water run-off to be discharged off the bath and into verge area on either side. All verge scrape arisings to be utilised eform path verges, ensuring finished verge levels remain below path surface evels to allow surface water run-off.										
2998 - 3008 3008	••• /	/	1.7 /	Route continues north through woodland and remains parallel to the B7020 carriageway. Surface remains as compacted Type 1 aggregate.	usable path s 1m on either of maintenar original path ground veget	surface width by regulate w surface width by regu- side. Consideration nce works aimed at c width. Alternative is tation and to a width rtification). Occasior	larly cutting b to be given to arefully scrapio to apply appro not exceeding	ack verge undertaki ng back ex opriate he g original p	vegetation to ng a phased pr visting verge to rbicide to encr path base widt	a width of ogramme expose oaching						
				Photo 60: chainage 3008 linm - general photo of recycled plastic picnic table looking right (east)	Drainage: For path con- better enable the edges of Clear inlet ar within pipe to	struction options 1 a e surface water run-o the path surface. Loo od outlet channels to o re-establish full fur on inspection and cle	nd 2: Install dr off and to allev cate as require piped culvert nctionality. Inco	ainage let iate any p d and to a and rod o orporate c	ts along the ve ossible pondir min width of ut accumulate culvert and ass	ng along 200mm. d material ociated						
				General photo showing recycled plastic picnic table to right of	Signage:											
				path. Bench located on open ground with no formal/hard base.	No works rec	uired.										
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	n of Proposed	Path Wo	rks							

Path Sur	vey a	nd Spec	ificatio	on Sheet					Sheet No.	34			
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	intervais							
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	Section:	Chaina	ge (3008 – 30	)26 linm)			
3008 3008 - 3026 3026	/ /	/ / /	/ 1.7 /	Photo 60ar. chailbage 3008 lfinm         general photo looking back at chainage 3008 llinm.         General photo looking back at chainage 3008 llinm.         Route continues north through woodland and remains parallel to the B7020 carriageway. Surface composed of compacted Type 1 aggregate.         Image: Photo 61: chainage 3026 linm: general photo looking west to roadside lay-by on B7020. Gap in fence has no access barrier.	than 3.5m fro encroaching 50mm, unles vegetation to agreed locati Barriers/Oth Regularly ren Path construe Option 1: Car width of prev upgrade surfa 1:40 camber the path and to reform path levels to allow Option 2: Ass usable path s 1m on either of maintenan original path ground veget PA1/PA6a cel Link Path: Ins CL/UPU/CLLC Drainage: For path cons better enable	erhanging vegetation om finished path surf vegetation not less the sotherwise noted with the be cut into manages ons. <b>er features:</b> nove all vegetation gen <b>ction and surfacing:</b> refully scrape back all viously installed path ace to Drawing No. Co throughout to allow into verge area on eight the verges, ensuring fi w surface water run-of sumes no upgrade we urface width by regu- side. Consideration to ace works aimed at ca width. Alternative is cation and to a width rtification). Occasion stall new path to gen CT/001 but ensuring r struction options 1 and e surface water run-options 1 and e surface water run-o	ace (preferred han 1m from p thin this techn able lengths an rowing around l encroaching (estimated to L/UPU/CLLCT/ any surface w ither side. All nished verge le off. orks, as detailed larly cutting b to be given to arefully scrapin to apply appro- not exceeding al compaction eral detail con nin 100mm de hd 2: Install dr off and to allev	I height 3. hath edges hical asses hd distribu I and under verge veg be a mini '001. Cons ater run-co verge scra evels rem ed within ( ack verge undertaki ng back ex- popriate he g original p of surface tained wire epth of ba ainage let iate any p	7m) and any s s and to a heig ssment. All wo- uted across site er bench seat. etation to exp mum of 1.5m) struct path leve off to be discha ape arisings to ain below path Option 1. Mair vegetation to ng a phased per kisting verge to erbicide to ence oath base widt e. thin Drawing N se material.	maller ht of ody e within ose full and els to max arged off be utilised n surface ntain a width of rogramme o expose roaching th (requires No.			
Chainage	Slope	Grad.	Width	Current Path Condition		Description	n of Proposed	Path Wo	rks				
(linm)	Dir	(%/deg)	(m)		Description of Proposed Path Works								

Path Sur	vey a	nd Spec	ificatio	on Sheet					Sheet No.	35	
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	rson		
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	Section:	Chaina	ge (3026 – 30	)32 linm)	
3026	/	/	/	Photo 61a: general photo from roadside General photo from lay-by toward route path (west) and	<ul> <li>Vegetation Management:</li> <li>Clear any overhanging vegetation, along length of route, to a height of not less than 3.5m from finished path surface (preferred height 3.7m) and any smaller encroaching vegetation not less than 1m from path edges and to a height of 50mm, unless otherwise noted within this technical assessment. All woody vegetation to be cut into manageable lengths and distributed across site within agreed locations.</li> <li>Barriers/Other features:</li> <li>Bridge: Incorporate bridge condition inspection into annual maintenance schedule. Remove all vegetation adjacent or overhanging bridge structure. Upfi path surface approaches to bridge to remove any stepped level variances. Optic replace full structure ensuring minimum clear width of 1.5m.</li> <li>Path construction and surfacing:</li> </ul>						
3026 - 3039	<b>+</b> •	/	/	showing no barrier present. Route continues north through woodland and remains parallel to the B7020 carriageway. Surface composed of compacted Type 1 aggregate.	<b>Option 1:</b> Car width of prev upgrade surfa camber throu	refully scrape back al viously installed path ace to Drawing CL/UI ughout to allow any s	(estimated to PU/CLLCT/001 surface water r	be a mini Construc un-off to	mum of 1.5m) It path levels to be discharged	and o max 1:40 off the	
3039 - 3032	/	/	/	Photo 62: chainage 30.39 linm- general photo looking forward	reform path v levels to allow Link Path: Ins CL/UPU/CLLC Option 2: Ass usable path s 1m on either of maintenan original path ground veget	o verge area on eithe verges, ensuring finis w surface water run- stall new path to gen T/001 but ensuring r sumes no upgrade we urface width by regu side. Consideration f ace works aimed at ca width. Alternative is cation and to a width rtification). Occasion	hed verge leve off. eral detail con min 100mm de orks, as detaile larly cutting b to be given to arefully scrapin to apply appro not exceeding	els remain tained wit epth of ba ed within ( ack verge undertaki ng back ex opriate he g original p	below path su thin Drawing N se material. Option 1. Mair vegetation to ng a phased pu sisting verge to rbicide to encu- path base widt	urface lo. a width of rogramme o expose roaching	
	-			handrail and anti-slip aftermarkets strips to alternate decoking boards. Bridge 900mm wide with 1170mm high parapets. Limited stepped transition between aggregate path and decking boards where path surface is lower than bridge deck.	Signage: Option: Inst picnic/recrea	all fingerpost signation area	age indicatin	g access	to circular	route ar	
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	n of Proposed	Path Woi	'ks		

Path Sur	vey a	nd Spec	ificatio	on Sheet					Sheet No.	36
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	rson	
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	Section:	Chaina	ge (3032 – 30	43 linm)
2002 - 3043 3043 3043		LOCH CIPCI	1.7 1.2	Route continues north through woodland and remains parallel to the B7020 carriageway. Surface composed of compacted Type 1 aggregate. Photo 63: chainage 3043 linm general photo of roadside link path to lay-by looking left (west)	Vegetation N Clear any over than 3.5m from encroaching within 3.5m from 50mm, unless All woody veget within agreed Barriers/Othe No works require Path construct Generally ma Option to clear and welcomine Drainage: No works require Signage:	Management: Management: erhanging vegetation om finished path surf vegetation not less th s otherwise noted wi getation to be cut int d locations. er features: uired. ction and surfacing: intain path surfaces ar surface vegetation ng. uired. all fingerpost sign	, along length face (preferred han 1m from p ithin this tech to manageable through clean h at lay-by to n	of route, 1 I height 3. bath edges nical asses e lengths a ing of any nake the e	to a height of r 7m) and any s and to a heig sment. Ind distributed accumulated i	not less maller ht of across site materials. obvious
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	n of Proposed	Path Wo	rks	

Path Sur	vey a	nd Spec	ificatio	on Sheet					Sheet No.	37
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	erson	
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	Section:	Chaina	ge (3043 linm	ı)
3043	/		/	Image and the probability of the pr	than 3.5m fro encroaching v 50mm, unless All woody veg within agreed <b>Barriers/Othe</b> <b>Seating:</b> Regu longer than 5 bench with 2n <b>Path construe</b> Generally ma Option to clea and welcomin <b>Drainage:</b> No works req <b>Signage:</b>	erhanging vegetation, om finished path surfa- vegetation not less the s otherwise noted wi- getation to be cut int d locations. <b>er features:</b> alarly maintain grasse Omm. Consideration no. new (timber or re- ction and surfacing: intain path surfaces to ar surface vegetation ng.	ace (preferred ian 1m from p thin this techn o manageable ed seating are to be given to ecycled plastic chrough clean at lay-by to n	I height 3 bath edge hical asses e lengths a a to ensue o replace o ). ing of any nake the o	.7m) and any si s and to a heig ssment. and distributed re grass does n existing timber v accumulated i entrance more	maller ht of across site ot grow picnic materials. obvious
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Description	n of Proposed	Path Wo	rks	

Path Sur	vey a	nd Spec	ificatio	on Sheet					Sheet No.	38			
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	intervals							
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	Section:	Chaina	ge (3043 – 31	71 linm)			
3043 - 3107 3107 - 3111		/	<1.6	Route continues north through woodland and remains parallel to the B7020 carriageway. Surface composed of compacted Type 1 aggregate. Path width varies between 1.2 – 1.6m. Route continues north through woodland and remains parallel to the B7020 carriageway. Path base composed of compacted Type 1 aggregate with some accumulation of mud to surface.	<ul> <li>than 3.5m from finished path surface (preferred height 3.7m) and any smaller encroaching vegetation not less than 1m from path edges and to a height of 50mm, unless otherwise noted within this technical assessment.</li> <li>All woody vegetation to be cut into manageable lengths and distributed across within agreed locations.</li> </ul>								
3111 - 3171 3171	/	/	<1.6	Route continues north through woodland and remains parallel to the B7020 carriageway. Path base composed of compacted Type 1 aggregate.									
3171	/			Photo 64: chainage 3171 linm - general photo looking forward and showing culvert General photo showing 300mm dia. twinwall piped culvert with mortared stone headwalls. Water flowing freely from left to right (as shown).	usable path s 1m on either of maintenar original path ground veget	sumes no upgrade w urface width by regu side. Consideration ace works aimed at c width. Alternative is ration and to a width rtification). Occasior	ularly cutting b to be given to arefully scrapi to apply appro not exceeding	ack verge undertaki ng back ex opriate he g original p	vegetation to ng a phased pr isting verge to rbicide to encr path base widt	a width of ogramme expose oaching			
31/1				Photo 64a: chainage 3171 linm – general photo of culvert (outlet) General photo of culver outlet.	better enable the edges of Incorporate of	struction options 1 a e surface water run-o the path surface. Loo culvert and associate enance schedule. uuired.	off and to allev cate as require	iate any p d and to a	ossible pondin min width of	g along 200mm.			
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	n of Proposed	Path Wo	′ks				

Path Sur	vey a	nd Spec	ificatio	on Sheet					Sheet No.	39
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	rson	
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	Section:	Chaina	ge (3171 – 3	8272 linm)
3171 - 3180	<b>*</b>	/	<1.6	Route continues north through woodland and remains parallel to the B7020 carriageway. Surface composed of compacted Type 1 aggregate. Path width varies between 1.2 – 1.6m.	Clear any ove than 3.5m fro encroaching	Management: erhanging vegetatior om finished path sur vegetation not less t	face (preferred han 1m from p	l height 3. bath edges	7m) and any and to a hei	smaller
3180		/			All woody ver within agreed Barriers/Oth No works rec	<b>er features:</b> quired.	to manageable			ed across site
				Photo 651 chainage 3180 linm- general photo looking back General photo taken looking back and showing dip in path level allowing water and mud to accumulate across width of	Option 1: Car width of prev upgrade surf camber throu path and into	ction and surfacing: refully scrape back a viously installed path ace to Drawing CL/U ughout to allow any overge area on eithe verges, ensuring fini	II encroaching n (estimated to IPU/CLLCT/001 surface water n er side. All verg	be a mini . Construc run-off to ge scrape a	mum of 1.5n It path levels be discharge arisings to be	n) and to max 1:40 d off the e utilised to
				surface.	-	w surface water run-	-		below path	Surface
3180 - 3272	<b>+</b>	/	<1.6	Route continues north through woodland and remains parallel to the B7020 carriageway. Surface composed of compacted Type 1 aggregate. Path width varies between 1.2 – 1.6m.	scrape accun from path ed	sumes no upgrade w nulated mud from th Iges. Maintain usabl tion to a width of 1n	e path surface e path surface	and dispo width by	ose of arising regularly cut	s well away ting back
3272	/	/	/		undertaking scraping back appropriate b	a phased programm k existing verge to ex herbicide to encroac iginal path base wid:	e of maintenar «pose original p hing ground ve	ice works bath width getation a	aimed at car . Alternative and to a widt	efully is to apply h not
				Photo 66: chainage 3272 linn general photo looking back	better enable	struction options 1 a e surface water run- the path surface. Lo	off and to allev	iate any p	ossible pond	ing along
				General photo looking back and showing tree roots encroaching into path surface.	No works rec	quired.				
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	on of Proposed	Path Wo	rks	

Path Sur	vey a	nd Spec	ificatio	n Sheet					Sheet No.	40	
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	rson		
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	Section:	Chaina	ge (3272 – 3	285 linm)	
3272 - 3285	••	/	<1.6	Route continues north through woodland and remains parallel to the B7020 carriageway. Surface composed of compacted Type 1 aggregate. Path width varies between 1.2 – 1.6m.	Clear any ove than 3.5m fro encroaching	<b>flanagement:</b> erhanging vegetation om finished path surf vegetation not less t	face (preferred han 1m from p	l height 3. bath edges	7m) and any and to a heig	smaller	
3285	/	/		Photo 67: chainage 3285 linm – general photo showing link path to Forest Classroom' to right of path.	<ul> <li>50mm, unless otherwise noted within this technical assessment. All woody vegetation to be cut into manageable lengths and distributed across within agreed locations.</li> <li>Barriers/Other features: No works required.</li> <li>Path construction and surfacing: Option 1: Carefully scrape back all encroaching verge vegetation to expose full width of previously installed path (estimated to be a minimum of 1.5m) and upgrade surface to Drawing CL/UPU/CLLCT/001. Construct path levels to max 1 camber throughout to allow any surface water run-off to be discharged off the path and into verge area on either side. All verge scrape arisings to be utilised reform path verges, ensuring finished verge levels remain below path surface levels to allow surface water run-off.</li> </ul>						
3285	/	/	/	Photo 67a: chainage 3285 linm- general photo looking forward and showing tree situated in middle of path at chainage 3293. Route widens at this point at users circumvent the tree.	scrape accum from path ed verge vegeta undertaking a scraping back appropriate h exceeding or compaction of <b>Drainage:</b> For path cons better enable the edges of <b>Signage:</b>	struction options 1 a e surface water run-o the path surface. Loo	e path surface e path surface o on either side e of maintenar pose original p hing ground ve h (requires PA nd 2: Install dr off and to allev cate as require	and dispo width by f e. Conside nee works bath width getation a 1/PA6a ce ainage let iate any p d and to a	ese of arisings regularly cutt ration to be g aimed at care and to a width ertification). C ts along the v ossible pondi min width of	well away ing back iven to fully is to apply n not occasional erge to ng along 200mm.	
Chaircas	Clara	Curad	۱۸/: ما م ل		-	sign condition inspector of annual maintenance of a signal maintenance of a signal signa					
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	n of Proposed	Path Wo	'ks		

Path Sur	vey a	nd Spec	ificatio	on Sheet					Sheet No.	41		
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	rson			
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	Section:	Chaina	ge (3285 – 33	;71 linm)		
3285 - 3371	<b>+</b> •	/	<1.6	Route continues north through woodland and remains parallel to the B7020 carriageway. Surface composed of compacted Type 1 aggregate. Path width varies between 1.2 – 1.6m, noting widening around tree as shown in photo 67a.	3.5m from fin vegetation no otherwise not	rhanging vegetation ished path surface ( ot less than 1m from ted within this techn	preferred height path edges and ical assessment.	3.7m) and to a height	any smaller er of 50mm, unle	ncroaching ess		
3371	/				<ul> <li>otherwise noted within this technical assessment.</li> <li>All woody vegetation to be cut into manageable lengths and distributed across site within agreed locations.</li> <li>Barriers/Other features: No works required.</li> <li>Path construction and surfacing:</li> <li>Option 1: Carefully scrape back all encroaching verge vegetation to expose full width of previously installed path (estimated to be a minimum of 1.5m) and upgrade surface to Drawing CL/UPU/CLLCT/001. Construct path levels to max 1:40 camber throughout to allow any surface water run-off to be discharged off the path and into verge area o either side. All verge scrape arisings to be utilised to reform path verges, ensuring finished verge levels remain below path surface levels to allow surface water run-off.</li> </ul>							
3371	/	/	1	Photo 68: chainage 3371 linm – photo of roadside link path looking left (west) General photo to right of surveyed route and showing downhill ramp to timber fishing platform. Link path to platform (17 linm) is wholly unsurfaced and muddy underfoot at lower end.	Option 2: Ass accumulated edges. Maint to a width of programme o expose origin encroaching g (requires PA1 Link Path: Ins within Drawir	umes no upgrade we mud from the path surfa ain usable path surfa 1m on either side. Co f maintenance work al path width. Altern ground vegetation ar /PA6a certification). tall new path from r ng No. CL/UPU/CLLC	orks, as detailed surface and dispo ace width by reg onsideration to b s aimed at carefu ative is to apply nd to a width not Occasional com	within Opt ose of arisi ularly cutti oe given to ully scrapir appropriat exceeding paction of atform; to	ion 1. General ngs well away ng back verge undertaking a ng back existing e herbicide to g original path surface. general detail	ly scrape from path vegetation phased g verge to base width contained		
				Photo 68a: photo of fishing platform looking right (east) General photo showing timber platform into the Castle Loch and showing branches laid into mud for clearance.	enable surfac	truction options 1 a e water run-off and ace. Locate as requir uired.	to alleviate any p	possible po	nding along th			
Chainage	Slope	Grad.	Width	Current Path Condition		Docorinti	on of Proposed	Dath Ma	kc			
(linm)	Dir	(%/deg)	(m)			Descripti	on or Froposed		NJ			

Path Sur	vey a	nd Spec	ificatio	on Sheet					Sheet No.	42
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	rson	
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	Section:	Chaina	ge (3371 – 33	87 linm)
3371	/	LOCH CIPC	/	Image: constraint of the second sec	Vegetation M Clear any over 3.5m from fin vegetation no otherwise not All woody veg within agreed Barriers/Othe No works requ Path construct Option 1: Caro of previously it to Drawing CL to allow any s either side. A finished verge Option 2: Asso accumulated ne edges. Mainta to a width of 2 programme of expose origina encroaching g (requires PA1,) Link Path: Insti within Drawin material. Drainage: For path const enable surface	anagement: rhanging vegetation, a ished path surface (pr t less than 1m from p ed within this technic retation to be cut into locations.	along length of referred height ath edges and is cal assessment. manageable le encroaching ve ted to be a min nstruct path lev to be discharge to be discharge to be utilised path surface le rks, as detailed inface and dispose tive is to apply to a width by reg nsideration to be aimed at carefut tive is to apply to a width not occasional comp ad to timber pla '001 but ensuria	route, to a 3.7m) and to a height ingths and rge vegeta imum of 1 els to max d off the p to reform vels to allo within Op ose of arisi ularly cutt be given to ully scrapin appropria exceeding baction of atform to a ng min 100 mage letts a bossible po	tion to expose 5m) and upgra tion to expose 5m) and upgra 1:40 camber t ath and into ve path verges, er ow surface water tion 1. Generall ngs well away f ng back verge v undertaking a ng back verge v undertaking the surface. general detail c Dmm depth of the along the verge	ess than acroaching ess oss site full width ade surface hroughout rge area on asuring er run-off. y scrape from path vegetation phased verge to base width ontained base to better
3371 - 3387	<b>+</b>		<1.6	Route continues north through woodland and remains parallel to the B7020 carriageway. Surface composed of compacted Type 1 aggregate.	Signage: Option: Inst picnic/recreat	all fingerpost signation	age indicating	access	to circular	route and
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	n of Proposed	Path Wo	rks	

Path Sur	vey a	nd Spec	ificatio	on Sheet					Sheet No.	43
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	rson	
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	ge (3387 – 3	429 linm)		
3387 3387 3429	/	/	/ <1.6 /	Photo 69: chainage 3387 linm - photo of exposed culvert looking forward Photo 69a: general photo showing twinwall piped culvert exposed through path surface (photo 69) and part blocked outlet to piped culvert (photo 69a). Water flow left to right under path. Route continues north through woodland and remains parallel to the B7020 carriageway. Surface composed of compacted Type 1 aggregate. Photo 70: chainage 3429 linm = general photo looking forward and showing path route split by	Vegetation M Clear any ove 3.5m from fin vegetation no otherwise not All woody veg within agreed Barriers/Othe No works req Path construct Option 1: Car of previously to Drawing CL to allow any s either side. A finished verge Option 2: Ass accumulated edges. Maint to a width of programme o expose origin encroaching g (requires PA1 Drainage: For path cons enable surfac the path surfac Clear inlet and within pipe to over culvert to associated dit Signage: Option: Instal	lanagement: rhanging vegetation, ished path surface (p ot less than 1m from p ted within this techni getation to be cut into a features: uired. ction and surfacing: efully scrape back all installed path (estima /UPU/CLLCT/001. Co urface water run-off Il verge scrape arising e levels remain below umes no upgrade wo mud from the path surfa 1m on either side. Co f maintenance works al path width. Alterna ground vegetation an /PA6a certification). I truction options 1 and e water run-off and t ace. Locate as required d outlet channels to p o re-establish full functor o cover exposed pipe ach condition inspection Il fingerpost signage	encroaching ver anageable le encroaching ver ated to be a min nstruct path lev to be discharge gs to be utilised path surface le rks, as detailed urface and dispo ce width by reg nsideration to b aimed at carefu ative is to apply d to a width not Occasional comp d 2: Install drair o alleviate any p d and to a min v biped culvert any ctionality. Apply (min 75mm dep on and clearance	route, to a 3.7m) and to a height ingths and rge vegeta imum of 1 rels to max d off the pi to reform vels to allo within Opt base of arisin ularly cutti be given to ully scrapin appropriat e acceeding baction of 20 d rod out a additional oth). Incorp	tion to expose .5m) and upg 1:40 camber ath and into v path verges, of w surface wa ion 1. Genera ngs well away ng back verge undertaking g back existin e herbicide to g original path surface. long the verg nding along t path surface porate culver ual maintena	t less than encroaching less cross site e full width rade surface throughout verge area on ensuring ter run-off. ally scrape from path e vegetation a phased og verge to o b base width te to better he edges of material material t and nce schedule
Chainage	Slope	Grad.	Width	trees along centre line of path surface.	and picnic/red					
	JUDE	Gidu.	widui	Current Path Condition	1		on of Proposed	- • • • •		

Path Sur	vey a	nd Spec	ificatio	on Sheet					Sheet No.	44	
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	nderson		
Path:	Castle	Loch Circ	ular Rou	te	Date:         05.10.20         Section:         Chainage (3429 – 3509)						
3429 - 3509 3509		/	<1.6	Route continues north through woodland and remains parallel to the B7020 carriageway. Surface composed of compacted Type 1 aggregate.	<ul> <li>Vegetation Management:</li> <li>Clear any overhanging vegetation, along length of route, to a height of not less thar</li> <li>3.5m from finished path surface (preferred height 3.7m) and any smaller encroachinvegetation not less than 1m from path edges and to a height of 50mm, unless otherwise noted within this technical assessment.</li> <li>All woody vegetation to be cut into manageable lengths and distributed across site within agreed locations.</li> <li>Barriers/Other features:</li> <li>No works required.</li> <li>Path construction and surfacing:</li> <li>Option 1: Carefully scrape back all encroaching verge vegetation to expose full widt of previously installed path (estimated to be a minimum of 1.5m) and upgrade surfato Drawing CL/UPU/CLLCT/001. Construct path levels to max 1:40 camber througho to allow any surface water run-off to be discharged off the path and into verge area either side. All verge scrape arisings to be utilised to reform path verges, ensuring finished verge levels remain below path surface levels to allow surface water run-off</li> <li>Option 2: Assumes no upgrade works, as detailed within Option 1. Generally scrape</li> </ul>						
3509	/	/	1	moderately steep link ramp (7 linm) to roadside lay-by on B7020.	accumulated edges. Maint to a width of programme o expose origin encroaching g (requires PA1 Link Path: Ins within Drawir material.	mud from the path surfa ain usable path surfa 1m on either side. Co f maintenance works al path width. Altern ground vegetation ar /PA6a certification). tall new path from ro ng No. CL/UPU/CLLCT	urface and dispo ace width by reg possideration to b s aimed at carefu ative is to apply ad to a width not Occasional comp poad to timber pla	ose of arisi ularly cutti oe given to ully scrapir appropriat exceeding paction of atform to g	ngs well away f ing back verge undertaking a ng back existing te herbicide to g original path surface. general detail c	rom path vegetation phased g verge to base width ontained	
				Photo 71a: chainage 3509 linm – general photo of path link to timber fishing platform General photo showing unsurfaced link from surveyed route to timber fishing platform. Link path leads on from link path to lay-by shown in Photo 71.	enable surfac the path surfa Signage:	truction options 1 ar e water run-off and t ace. Locate as require Il fingerpost signage	to alleviate any p ed and to a min v	oossible po width of 20	onding along th 00mm.	e edges of	
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descripti	on of Proposed	Path Wo	rks		

Path Sur	vey a	nd Spec	ificatio	n Sheet					Sheet No	. 45
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Andei	rson	
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	Section:	Chainag	ge (3509 –	3748 linm
3509 - 3622 3622	<b>••</b>	/	<1.6	Route continues north through woodland and remains parallel to the B7020 carriageway. Surface composed of compacted Type 1 aggregate.	3.5m from fin vegetation no	lanagement: rhanging vegetation, ished path surface (p ot less than 1m from p ted within this technic	referred height bath edges and t	3.7m) and	any smaller	encroachir
3022	1	,			All woody veg within agreed <b>Barriers/Othe</b> No works req	getation to be cut into I locations. er features: uired.		ngths and	distributed	across site
				Photo 72: chainage 3622 linm – general photo of recycled plastic bench path looking right (east)	<b>Option 1:</b> Car of previously to Drawing CL to allow any s either side. A	ction and surfacing: efully scrape back all installed path (estima _/UPU/CLLCT/001. Co surface water run-off Il verge scrape arising	ated to be a min nstruct path lev to be discharge gs to be utilised	imum of 1 rels to max d off the pa to reform	.5m) and up 1:40 cambe ath and into path verges	grade surfa r througho verge area , ensuring
				General photo looking right (east) of recycled plastic picnic table situated on unsurfaced base.		e levels remain below umes no upgrade wo				
3622 - 3748	<b>+</b>	/	/	Route continues north through woodland and remains parallel to the B7020 carriageway. Surface composed of compacted Type 1 aggregate.	edges. Maint to a width of a	mud from the path su ain usable path surfa 1m on either side. Co f maintenance works	ce width by reginsideration to b	ularly cuttine given to	ng back verg undertaking	ge vegetatic g a phased
3748	/	/			encroaching	al path width. Alterna ground vegetation and /PA6a certification). (	d to a width not	exceeding	original pat	
						tall new path from ro ng No. CL/UPU/CLLCT,				
				Photo 73: chainage 3748 linm – general photo of roadside link path looking west	enable surfac	truction options 1 an e water run-off and to ace. Locate as require	o alleviate any p	ossible po	nding along	
				General photo to left (west) showing unsurfaced link path (10 linm) to roadside lay-by on B7020.	Signage: Option: Instal platform	ll fingerpost signage i	ndicating acces	s to circula	r route and	timber fish
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descriptio	on of Proposed	Path Wor	ks	

Path Sur	vey a	nd Spec	ificatio	on Sheet					Sheet No.	46
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	erson	·
Path:	Castle	Loch Circ	ular Rou	te	Date: 05.10.20 Section: Chainage (					08 linm)
3748 - 3781	/	/	<1.6	Route continues north through woodland and remains parallel to the B7020 carriageway. Surface composed of compacted Type 1 aggregate.         Image: Compacte Type 1 aggregate.         Image: Compacte.         Image: Com	3.5m from fin vegetation no otherwise not All woody veg within agreed <b>Barriers/Othe</b> No works requ <b>Path construct</b> <b>Option 1:</b> Carr of previously to Drawing CL to allow any s either side. A finished verge <b>Option 2:</b> Assi accumulated edges. Maint to a width of programme o expose origina encroaching g (requires PA1, Link Path: Inst	rhanging vegetation, ished path surface (p ot less than 1m from ted within this techni getation to be cut int I locations. er features:	preferred height path edges and s ical assessment. o manageable le encroaching ve ated to be a mino onstruct path lev to be discharge gs to be utilised y path surface le orks, as detailed urface and dispon ice width by reg- onsideration to b s aimed at carefu ative is to apply id to a width not Occasional composed to timber pla	3.7m) and to a heigh angths and rge vegeta imum of 2 rels to max d off the p to reform vels to allo within Op ose of aris ularly cutt be given to ully scrapi appropria exceedin oaction of atform to	any smaller er t of 50mm, unle d distributed acr d distributed acr	full width ade surface hroughout rge area on hsuring er run-off. y scrape rom path vegetation phased verge to base width ontained
3781 - 3808	<	/	<1.6	Route continues north through woodland and remains parallel to the B7020 carriageway. Surface composed of compacted Type 1 aggregate. 300mm twinwall piped culvert located at chainage 3791 linm taking water from left to right under path. Culvert in good operating condition.	For path construction options 1 and 2: Install drainage letts along the verge to better enable surface water run-off and to alleviate any possible ponding along the edges of the path surface. Locate as required and to a min width of 200mm.					
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition			on of Proposed	Path Wo	rks	

Path Sur	vey a	nd Spec	ificatio	n Sheet					Sheet No.	47
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	rson	
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	Section:	Chaina	ge (3803 – 38	326 linm)
3808	/	/	/	Photo 76: Chainage 3808 linm general photo of heron carving looking right (east)         General photo showing wooden carved heron to right (east) of path.	to allow any surface water run-off to be discharged off the path and into verge an					
3808 - 3826	<b>+</b>	/	<1.6	Route continues north through woodland and remains parallel to the B7020 carriageway. Surface composed of compacted Type 1 aggregate.	0					
3826	/	/	1	Photo 77: chainage 3826 linm – general photo looking back	accumulated edges. Maint to a width of programme o expose origin encroaching g	mud from the path s cain usable path surfa 1m on either side. Co of maintenance works al path width. Altern ground vegetation an ./PA6a certification).	urface and dispo to width by reg ponsideration to b s aimed at carefu ative is to apply d to a width not	ose of arisi ularly cutt be given to ully scrapin appropria exceeding	ngs well away f ng back verge undertaking a ng back existing te herbicide to g original path l	from path vegetation phased g verge to
					within Drawir material. Drainage: For path cons enable surfac	tall new path from rong No. CL/UPU/CLLCT struction options 1 ar we water run-off and t ace. Locate as require	/001 but ensuri nd 2: Install drain to alleviate any p	ng min 100 nage letts a possible po	Omm depth of P along the verge onding along th	base e to better
				Woodland section of the route ends and exists onto access road to Bowling Club.	Signage: Option: Insta platform	ll fingerpost signage	indicating acces	s to circul	ar route and ti	mber fishing
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition		Descripti	on of Proposed	Path Wo	rks	

Path Sur	vey aı	nd Speci	ificatio	n Sheet					Sheet No.	48
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Ande	rson	
Path:	Castle	Loch Circu	ular Rou	te	Date: 05.10.20 Section: Chainage (3826 – 4062 lin					
3826 - 3913	/	/	/	Route turns right and continues down gentle ramp on surfaced Bowling Club access road before levelling and turning left across carparking area.	Clear any ove than 3.5m fro	Management: erhanging vegetation om finished path sur	face (preferred	l height 3.	7m) and any s	maller
3913 - 3940	<b>+</b>		1.0	Photo 78: chainage 3913 linm - general photo looking forward General photo showing edge of carpark and start of timber edged aggregate path at chainage 3913 linm (photo 78). Path measured at 1.0m wide. Timber edged path ends at chainage 3940 linm (photo 79) and enters open amenity grass area with	50mm, unless All woody veg within agreed <b>Barriers/Oth</b> No works req <b>Path constru</b> <b>Option 1:</b> Car width of prev upgrade surfa camber throu path and into reform path of	er features:	Il encroaching (Il encroaching (estimated to PU/CLLCT/001 surface water r er side. All verg shed verge leve	verge veg be a minin . Construc run-off to ge scrape a	sment. nd distributed etation to exp mum of 1.5m) t path levels t be discharged arisings to be d	across site ose full and o max 1:40 off the utilised to
3940 - 4062	/	/	/	play equipment. Transition between aggregate path and amenity grass area subject to heavy wear and potential waterlogging/mud. Photo 80: chainage 4029 linm- general photo looking forward	<ul> <li>Option 2: Assumes no upgrade works, as detailed within Option 1. Generally scrape accumulated mud from the path surface and dispose of arisings well away from path edges. Maintain usable path surface width by regularly cutting back verge vegetation to a width of 1m on either side. Consideration to be given to undertaking a phased programme of maintenance works aimed at carefully scraping back existing verge to expose original path width. Alternative is to apply appropriate herbicide to encroaching ground vegetation and to a width not exceeding original path base width (requires PA1/PA6a certification). Occasional compaction of surface.</li> <li>Drainage:</li> <li>For path construction options 1 and 2: Install drainage letts along the verge to</li> </ul>					
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Route traverses open amenity grass area with play equipment to left. Route undefined and contours across slope which falls from left to right. General photos taken at chainage 4029 lin m and 4056 linm looking forward. Current Path Condition	which falls					

	vey a	na spec	ificatio	on Sheet						Sheet No.	49
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway		Weather:	Dry, sunny intervals	Surveyor:	G Ande	rson	
Path:	Castle	Loch Circ	ular Rou	te		Date:	05.10.20	Chaina	ge (4062 – 4	1286 linm)	
Path: 4062 - 4175 4175 - 4286 4286	••	Loch Circ	ular Rou / / /	Photo 82: chainage 4086 linm – general photo looking forward Route passes through gap in for (shown in photos 81 & 82a). G Route then passes across Anna standing area and to front of of taken at chainage 4086 looking	Tap measured at 950mm wide. andale Sailing Club hard clubhouse (general photos g forward '82' and back '82a') oad that serves as access road. 7 before turning right (South ong pavement of A907.	Vegetation N No works req Barriers/Oth No works req Path constru No works req Drainage: For path cons better enable the edges of Signage:	Nanagement: quired. er features: quired. ction and surfacing:	nd 2: Install dr off and to allev cate as require	ainage let iate any p d and to a	ts along the ossible ponc min width c	verge to ling along of 200mm.
				General photo looking forward	d where roadside footway turns						
				right and away from roadside,	<b>.</b> .						
Chainage	Slope	Grad.	Width		down gentle ramp and into lel to A907 and roadside hedge.						

Path Sur	vey ar	nd Speci	ificatio	on Sheet					Sheet No.	50
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	erson				
Path:	Castle	Loch Circu	ular Rou	te	Date:	ge (4286 – 45	687 linm)			
Path:         4286 - 4347         4347         4347		Loch Circu / /	<1.5 / <1.5	te Route continues south, running parallel to A907 on left. Path width varies along this section from 0.9 – 1.5m. Path base is composed of compacted Type 1 aggregate with no surface blinding.	Vegetation M Clear any over than 3.5m froencroaching 50mm, unless All woody ver within agreed Barriers/Oth No works reco Path construe Option 1: Ca width of prevuggrade surf camber throup path and inter reform path levels to allow Option 2: Ass usable path so 1m on either of maintenar original path ground veget PA1/PA6a cee Tree stump:	er features:	rface (preferred than 1m from p within this techn nto manageable g all encroaching h (estimated to JPU/CLLCT/001 r surface water p er side. All verg ished verge leven to ff. works, as detaile gularly cutting b n to be given to carefully scrapin is to apply appro- h not exceeding mal compaction flush with finish	of route, i I height 3. bath edges nical asses e lengths a be a mini . Construc- run-off to ge scrape els remain ed within ack verge undertaking back ep priate he g original p of surfac-	to a height of f .7m) and any s s and to a heig sment. and distributed etation to exp mum of 1.5m) t path levels t be discharged arisings to be on below path so Option 1. Mai vegetation to ng a phased p kisting verge to erbicide to enc path base widt e. evel and prefe	not less maller ht of l across site ose full and o max 1:40 off the utilised to urface ntain a width of rogramme o expose roaching ch (requires rably
					<b>Drainage:</b> For path con better enable	struction options 1 e surface water run the path surface. Lo	and 2: Install dr -off and to allev	ainage let iate any p	ts along the ve ossible pondir	erge to ng along
					Signage: No works rec	wired				
Chainage (linm)	Slope Dir	Grad. (%/deg)	Width (m)	Current Path Condition			on of Proposed	Path Wo	rks	

Path Sur	urvey and Specification Sheet Sheet No. 51										
Location:	Castle	Loch, Loc	hmaben	, Dumfries and Galloway	Weather:	Dry, sunny intervals	Surveyor:	G Anderson			
Path:	Castle	Loch Circ	ular Rou	te	Date:	05.10.20	Section:	Chainage (4587 – 4595 linm)			
4587 - 4595	Slope	/ Grad.	<1.5	Photo 85: chainage 4587 linm – general photo looking forward         General photo looking forward at chainage 4587 linm and showing moderate to steep ramp leading up to Castle Loch carparking area and end of surveyed route at chainage 4595 linm. Path base remains as compacted Type 1 aggregate with no surface blinding/layer.         Photo 87: chainage 4595 linm – general photo looking back at path end         Photo 87: chainage 4595 linm – general photo looking back at path end         Seneral photo showing end of path looking back.	than 3.5m fro encroaching v 50mm, unless All woody veg within agreed <b>Barriers/Othe</b> <b>Handrail</b> : Opt general aid to <b>Path construe</b> <b>Option 1</b> : Car width of prev upgrade surfa camber throu path and into reform path v levels to allow <b>Option 2</b> : Ass scrape accum from path edu verge vegetat undertaking a scraping back appropriate h exceeding ori compaction of <b>Drainage</b> : For path cons better enable the edges of t	rhanging vegetation, om finished path surfi- vegetation not less the sotherwise noted wi- getation to be cut inter- l locations. er features: tion to install single he path users. ction and surfacing: efully scrape back all iously installed path ace to Drawing CL/UF ighout to allow any s verge area on either verges, ensuring finish v surface water run-of umes no upgrade wor utated mud from the ges. Maintain usable cion to a width of 1m a phased programme existing verge to exp inerbicide to encroach ginal path base width if surface.	ace (preferred aan 1m from p thin this techr o manageable aandrail on acc encroaching (estimated to 2U/CLLCT/001 urface water r side. All verg hed verge leve off. orks, as detaile path surface on either side of maintenar pose original p ing ground ver n (requires PA	e lengths and distributed across site cess ramp to circular walk as a verge vegetation to expose full be a minimum of 1.5m) and . Construct path levels to max 1:40 run-off to be discharged off the ge scrape arisings to be utilised to els remain below path surface ed within Option 1. Generally and dispose of arisings well away width by regularly cutting back e. Consideration to be given to nee works aimed at carefully bath width. Alternative is to apply getation and to a width not 1/PA6a certification). Occasional			
(linm)	Dir	(%/deg)	(m)	Current Path Condition		Description	n of Proposed	Path Works			

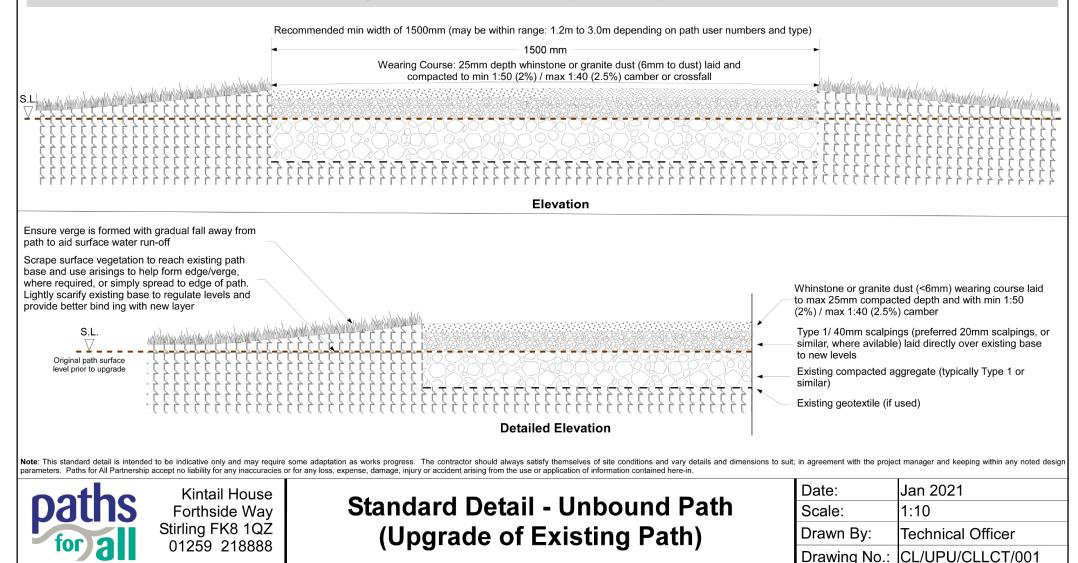
## 5.0 Cost Estimate

	ides upgrade of access tracks, installation of path across amenity grass park area and access link pat			_	
Construct new path of approx. 3071	Description	Quantity	Unit	Rate	Total
inm in length. Path to be formed to a min finished surface width of 1.5m	Clearance works: general tree and vegetation removal along line of path to facilitate any and all planned works. General corridor width to be a min of 3.5m, where possible, and height of 3.7m	1	Sum	£3750.00	£3,750.00
	Scrape existing path surface to width of 1.5m and use limited arisings to form verges, as detailed within Drawing No. CL/UPU/CLLCT/001.	4606	m²	£2.50	£11,515.00
	Supply and install 20mm scalpings; to min. 50mm compacted depth on path section and max 1:40 camber (assumed ave. of 70mm uncompacted depth)	322.4	m³	£55.00	£17,732.00
	Supply and install whin dust wearing course over prepared path base; to average 25mm compacted depth	4606	m²	£2.90	£13,357.40
	Sub-total for contract works			£-	£46,354.40
	Contingency	5	%	£ -	£2,317.72
	ADD Preliminaries	7.5	%	£ -	£3,650.41
		1		TOTAL	£52,322.53
Optional Upgrade Works					
General costs for optional upgrade	Description	Quantity	Unit	Rate	Total
works. Includes replacement of existing bridges, installation of piped	Formalise link paths from circular route to B7020. 4no. 1.5m wide links constructed to general detail in Drawing No. CL/UPHT/CLLCT/002	69	m²	£22.50	£1,552.50
culvert at chainage 2619 linm, recycled picnic benches, new 122 inm x 1.5m wide link path across	Replace existing 3no. timber bridges with new and including timber ramped approaches to Valison Burn bridge. General costs allow for supply and installation of pre-constructed kit style bridges with double handrails. Costs include constructed abutments, where required.	25.8	m²	£1650.00	£42,570.00
amenity grass area and new 40 linm	Supply and install heavy duty recycled plastic picnic benches	2	No.	£770.00	£1,540.00
< 1.5m wide ramp by-pass path at chainage 1749 linm.	Construct 1.5m wide surfaced link path across amenity grass area between chainages 3940 and 4062 linm. Construct to general detail in Drawing No. CL/UPHT/CLLCT/002 with additional allowance for bench works to embankment.	183	m³	£24.00	£4,392.00
	Installation of piped culvert to Drawing No. SD/PC/01 (300mm dia.). Replaces existing humped timber walkway at chainage 2619 linm.	1	No.	£420.00	£420.00
	Installation of fingerpost signage to match existing	1	No.	£300.00	£300.00
	Sub-total for contract works			£ -	£50,774.50
	Contingency	5	%	£ -	£2,538.72
	ADD Preliminaries	7.5	%	£ -	£3,998.49
				TOTAL	£57,311.7
New Build (Timber Walkway)					
Take up and remove from site all	Description	Quantity	Unit	Rate	Total
existing raised timber walkway and construct new to approx. 226 linm in	Clearance works: removal of existing timber walkways (approx. 226linm) and disposal in licensed recycling centre	1	Sum	£7,500.00	£7,500.00
ength. Raised walkway to be formed	Supply and install 1.6m wide timber raised walkway to Drawing No. CL/LLW/CLLCT/002	362	m²	£140.00	£50,680.00
o a min finished width of 1.6m	Supply and install timber raised walkway passing place to min 3.5sqm	3	No.	£455.00	£1,365.00
	Sub-total for contract works			£ -	£59,545.0
	Contingency	5	%	£ -	£2,977.25
	ADD Preliminaries	7.5	%	£-	£4,689.17
	ADD Freininailes	7.5	70	L -	14,009.17

## Drawing No: CL/UPU/CLLCT/001 Unbound Surface Path (Upgrade of Existing Path)

#### **Construction notes:**

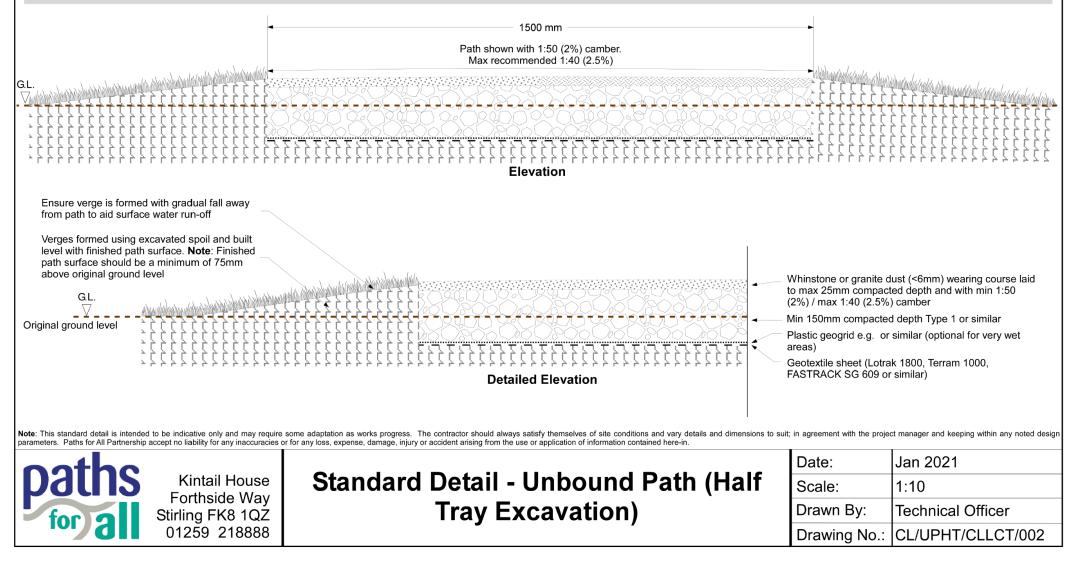
- This type of construction is ideal where an older path base, of reasonable quality, already exists but may now be lower than adjacent ground levels; allowing a new base and surface layer to be added
- Strip off surface vegetation to expose the orginal path base and re-use arisings; forming verges along either side of the path tray and to build path edge.
- Lay DTp Type 1 path base with drag box, if available. (Preferred option: use 20mm scalpings; where available) to minimum 150mm depth and min 1:50 (2%) or max 1:40 (2.5%) camber (as shown). Compact to refusal prior to application of surface wearing course (minimum 120 type roller recommended)
- Lay unbound surfacing (e.g. whinstone or granite dust) to a maximum compacted depth of 30mm. This type of surfacing (wearing course) material can also be laid with a drag box, if available, however it is easily worked by hand to required depths. Where spreading by hand, care should be taken to not lift sub-base material, something that will occur if using the tines of a rake. Instead, spread the wearing course material using only the back edge of a rake or other similar wide, flat edged tool. Compact to refusal (minimum 120 type roller recommended).
- Surface regularity maximum 10mm gap, under 3.0 metre straight edge placed along centre of base surface, and maximum 5mm gap for surfacing material
- Excavate any soft spots and fill with DTp Type 1 granular sub-base material (or 20mm scaplings, where available).
- Path is shown at a recommended minimum width of 1500 mm. Verges to be min 500mm either side of finished path, wider where space allows.



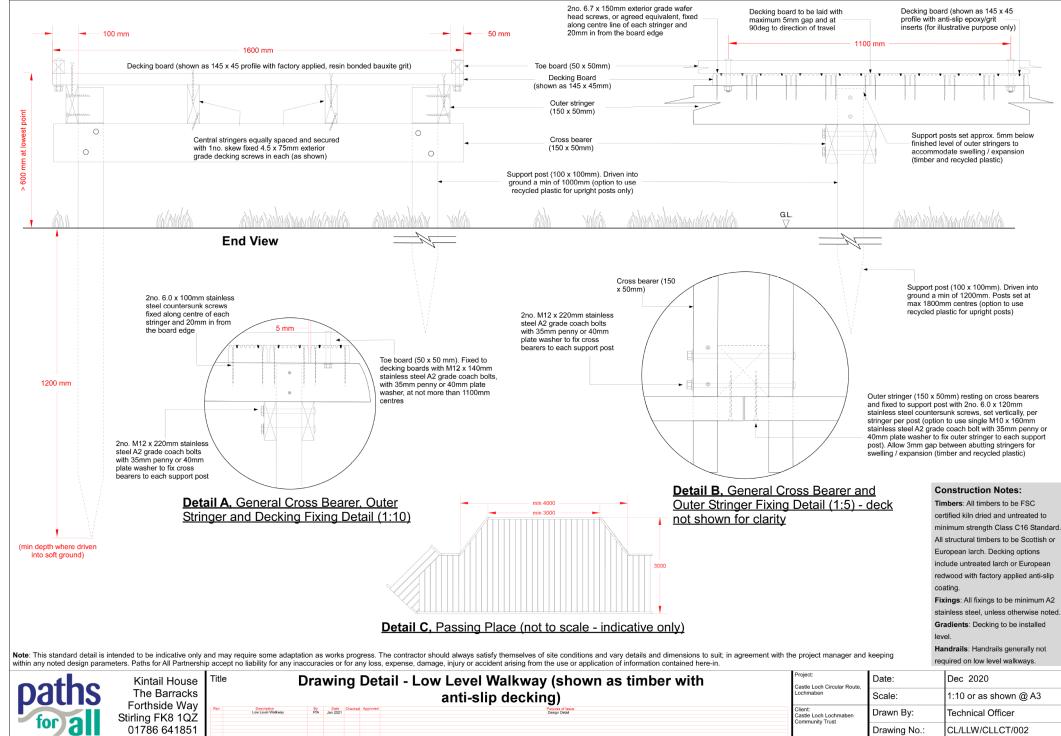
## Drawing No: CL/UPHT/CLLCT/002 Unbound Surface Path (Half Tray Excavation)

### Construction notes:

- This 'half-tray' type of path construction is preferable where the ground is soft and/or poorly drained
- Strip off surface vegetation and soil to at least 100mm depth below original ground level and re-use arisings; forming verges along either side of the path tray and to build path edge
- Install geotextile membrane (Lotrak 1800, Terram 1000, FASTRACK SG 609 or similar) on exposed path formation layer. Add geogrid (Tensar SS30 or similar) as required.
- Lay DTp Type 1 path base with drag box, if available. (Option to use a lower priced granular sub-base aggregate e.g. 40mm crusher run) to minimum 150 mm depth and min 1:50 (2%) or max 1:40 (2.5%) crossfall or camber (as shown). Compact to refusal prior to application of surface wearing course (minimum 120 type roller recommended or heavy vibrating plate)
- Lay unbound surfacing (e.g. whinstone or granite dust) to a maximum compacted depth of 25mm. This type of surfacing (wearing course) material can also be laid with a drag box, if available, however it is easily worked by hand to required depths. Where spreading by hand, care should be taken to not lift sub-base material, something that will occur if using the tines of a rake. Instead, spread the wearing course material using only the back edge of a rake or other similar wide, flat edged tool. Compact to refusal (minimum 120 type roller recommended).
- Surface regularity maximum 10mm gap, under 3.0 metre straight edge placed along centre of base surface, and maximum 5mm gap for surfacing material
- Excavate any soft spots and fill with DTp Type 1 granular sub-base material. Option to use a lower priced granular sub-base aggregate e.g. 40mm crusher run if significant quantities are required
- Path is shown at a recommended min width of 1500 mm but this can be further reduced to 1200mm, where space is limited, or extended to 3000mm width where space allows



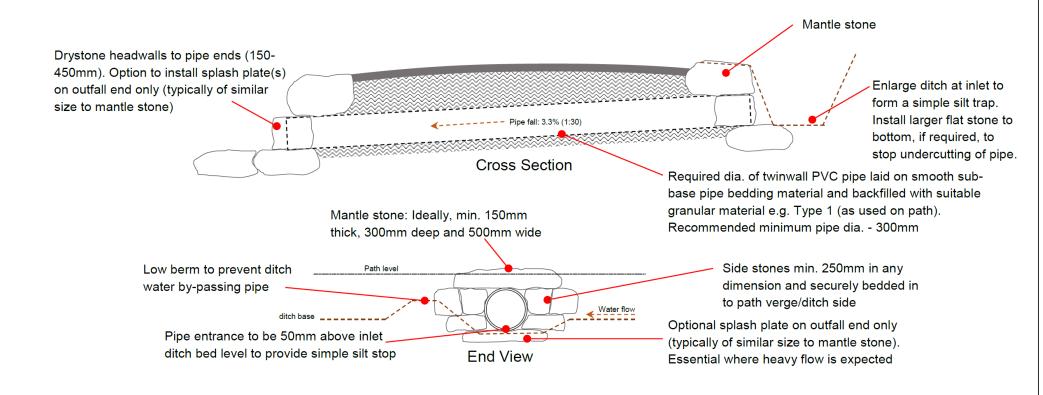
### Drawing No: CL/LLW/CLLCT/002 Low Level Walkway (shown as timber with anti-slip decking)



# Drawing No: SD/PC/01 Piped Culvert (Twinwall pipe)

Construction notes:

- 1. Trench for pipe to be excavated using a machine of suitable weight and dimensions for the site conditions. Linear gradient of pipe fall should be a minimum 1:30 (3.3%) to allow water to flow freely along the line of pipe and help avoid silt being deposited within the pipe
- 2. Trench should be of sufficient depth to fully intercept drainage water and to allow a level finished path surface
- 3. Excavated spoil should be spread evenly and neatly on the lower side of the path. Care should also be taken to ensure that landscaped spoil does not impeded any surface water run-off from the path; if material is placed on the lower edge
- 4. Lay suitable granular material to base of trench, as pipe bedding and to required falls. Place twinwall pipe directly on top of granular material and surround/cover pipe with suitable sub-base material (typically Type 1, as applied to path surface, ensuring min. 150mm cover)



**Note:** This standard detail is indicative only and not intended to be relied upon in all site cases. The designer should satisfy themselves of site conditions and vary details and dimensions to suit but keeping within noted design parameters. Paths for All accept no liability for any inaccuracies or for any loss, expense, damage, injury or accident arising from the use or application of information contained here-in.

action		Date: 28/08/18					
paths	Standard Detail – Piped Culvert (Twinwall pipe)						
for a	Standard Detail – Piped Culvert (Twinwail pipe)	Drawn by: Technical Officer					
		Drawing nr: SD/PC/01					



### Paths for All is a partnership organisation. For a full list of our current partners please visit our website **www.pathsforall.org.uk**

Paths for All is a recognised Scottish Charity No. SC025535 and a Company Limited by Guarantee No. 168554 incorporated 19 September 1996 at Companies House, Edinburgh. Registered Office: Kintail House, Forthside Way, Stirling, FK8 1QZ

© Paths for All Partnership 2020

## Paths for All

Kintail House,

Forthside Way, Stirling

**FK8 1QZ** 

Tel: 01786 641851



@PathsforAll