

Appendix C – Assessment Matrices

CORMAC

Assessment Matrices

Saints Trails – WP1 - Perranporth to Newquay -
Route Options Assessment Workshop

Date 10/10/2019



PART OF THE
CORSERV GROUP
A CORNWALL
COUNCIL COMPANY



www.cormacltd.co.uk

Issue & Revision Record

Revision	Date	Originator	Checked	Authorised	Purpose of Issue	Nature of Change
0.1	11.12.2019	MT	JL	AO	First Issue	-

CORMAC

Prepared by
Engineering Design Group
Western Group Centre
Radnor Road
Scorrier
Redruth
TR16 5EH

If you would like this report in another format, please contact

CORMAC Solutions Ltd

Head Office
 Higher Trenant Road
 Wadebridge
 Cornwall
 PL27 6TW

Tel: 01872 323 313

Email: customerrelations@cormacltd.co.uk
www.cormacltd.co.uk/

This document has been prepared for the titled project or named part thereof and should not be relied upon or used for any other project without an independent check being carried out as to its suitability and prior written authority of Cormac Solutions Ltd being obtained. Cormac Solutions Ltd accepts no responsibility or liability for the consequences of this document being used for a purpose other than the purposes for which it was commissioned. Any person using or relying on the document for such other purposes agrees, and will by such use or reliance be taken to confirm his agreement to indemnify Cormac Solutions Ltd for all loss or damage resulting therefrom. Cormac Solutions Ltd accepts no responsibility or liability for this document to any party other than the person by whom it was commissioned.

- Page Left Intentionally Blank -

CONTENTS

1	METHODOLOGY	5
2	ASSESSMENT MATRICES	7

1 Methodology

- 1.1.1 A workshop was held on the 10th of October 2019 where the sections of the scheme that have more than one option were presented to the project team. The project team included the designers (including ecology and environment team), Sustrans representatives, Client team members (Cornwall Council) and Cormac contracting representatives.
- 1.1.2 The workshop scored each option on a scale of +3 to -3. The scoring of positive to negative followed the pattern of; Major Positive (+3) – Minor Positive (+2) – Slight Positive (+1) – Neutral (0) – Slight Negative (-1) – Minor Negative (-2) – Major Negative (-3).
- 1.1.3 The scoring was carried out on each of the following criteria and added up to provide a final score:
- Scheme Objectives: Does the option meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user ‘test’. I.e. is it safe, is the grade acceptable, is the surface rideable.....etc.
 - Environmental impact: Impacts/ Mitigation and Opportunities for Environmental Growth
 - Impact on Landowners and those immediately adjacent to the route: injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking
 - Buildability and Cost: How simple is the construction and what is the estimated cost.
 - Deliverability: Considerations including planning and legal issues.
- 1.1.4 The following section represents the outcomes of the assessment workshop.

2 Assessment Matrices

Section: PN-06, PN-07 Option: 07A			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	2	Acceptable gradients throughout. One road crossing but with acceptable visibility
Environmental	Impacts/ Mitigation and Opportunities for Env Growth	-1	Some tree loss along route alignment only.
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking	-1	Individual property affected but can be effectively screened
Buildability/ Cost		2	Minimal earthworks and excavation
Deliverability	Inc planning/ legal	1	Complex landowner negotiations and possible CPO process
	Total (note a score of -3 in any criteria should disqualify an option)	3	

Section: PN-06, PN-07 Option: 07B			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	-2	Two sections of gradient that are in excess of standards. One road crossing with poor visibility.
Environmental	Impacts/ Mitigation and Opportunities for Env Growth	-2	Extensive excavation would result in much greater loss of trees including mature oaks, with limited scope for local mitigation
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking	-1	Major impact on sole access for one property and objections from other residents
Buildability/ Cost		-3	Significant earthworks required on the side of steep slope. Large retaining structures and safety fencing required.
Deliverability	Inc planning/ legal	-1	Probable requirement for CPO and the conversion of a Public Right of Way to allow other users. Programme impact.
Total (note a score of -3 in any single criteria should disqualify an option)		-9	

Section: PN-11 Option: 11A			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	3	Adequate off carriageway shared use sections and some segregated sections. Traffic light controlled and priority crossings
Environmental	Impacts/ Mitigation and Opportunities for Env Growth	-2	Vegetation loss within CWS. Mitigation opportunities exist
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking	1	Some landowner support and significant section through CWS
Buildability/ Cost		1	Railway embankment base exists resulting in minimal earthworks
Deliverability	Inc planning/ legal	1	Easier construction but possibly more onerous planning requirements
	Total (note a score of -3 in any single criteria should disqualify an option)	4	

Section: PN-11 Option: 11B			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	3	Adequate off carriageway shared use sections and some segregated sections. Traffic light controlled and priority crossings
Environmental	Impacts/ Mitigation and Opportunities for Env Growth	-2	Significant impact on water table/wetland likely Excavation in contaminated ground
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking	-1	Significant impact on specific landowner where the option deviates from railway alignment
Buildability/ Cost		-2	Building a new path in wetland. Bridge needed
Deliverability	Inc planning/ legal	0	Liability within wetland due to negative effects. Unknown mine workings
	Total (note a score of -3 in any single criteria should disqualify an option)	-2	

Section: PN-11 Option: 11C			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	-3	Alongside high speed road. Difficulty in providing safe crossing. Separation from carriageway difficult to achieve
Environmental	Impacts/ Mitigation and Opportunities for Env Growth		Not scored following -3 score
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking		Not scored following -3 score
Buildability/ Cost			Not scored following -3 score
Deliverability	Inc planning/ legal		Not scored following -3 score
	Total (note a score of -3 in any single criteria should disqualify an option)	-3	

Section: PN-11 Option: 11D			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	-3	Alongside high speed road. Difficulty in providing safe crossing. Separation from carriageway difficult to achieve
Environmental	Impacts/ Mitigation and Opportunities for Env Growth		Not scored following -3 score
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking		Not scored following -3 score
Buildability/ Cost			Not scored following -3 score
Deliverability	Inc planning/ legal		Not scored following -3 score
	Total (note a score of -3 in any single criteria should disqualify an option)	-3	

Section: PN-12 Option: 12A			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	1	Farmyard crossing and gradient
Environmental	Impacts/ Mitigation and Opportunities for Env Growth	-1	Low impact but limited opportunity due to constraints
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking	-1	Interaction with working farmyard entrance and section of farm track
Buildability/ Cost		1	Existing path to be resurfaced but large ramp needed in cutting
Deliverability	Inc planning/ legal	1	PROW to be upgraded. Large amount of material required for ramp
	Total (note a score of -3 in any criteria should disqualify an option)	1	

Section: PN-12 Option: 12B			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	2	Farm yard crossing reduced by purchase of section of yard and removal of barn. Level gradient. Direct route
Environmental	Impacts/ Mitigation and Opportunities for Env Growth	2	Removal of material from filled in cutting. Waste likely to be hazardous
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking	-1	Barn and yard area no longer available to the farm, but compensation would provide new barn
Buildability/ Cost		-3	Existing barn is asbestos. Large amount of waste material
Deliverability	Inc planning/ legal	-3	Tennant opposition. Demolition, waste removal
	Total (note a score of -3 in any criteria should disqualify an option)	-3	

Section: PN-13 Option: On-line Route			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	3	Entirely traffic free and level gradient
Environmental	Impacts/ Mitigation and Opportunities for Env Growth	1	Limited impact. Close to SAC. Mitigation possible
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking	0	Effect on local estate shoots. Isolated properties overlooked.
Buildability/ Cost		1	Long section with limited access. Traffic free. No vegetation clearance
Deliverability	Inc planning/ legal	1	Close to SAC. Landowner support
	Total (note a score of -3 in any criteria should disqualify an option)	6	

Section: PN-13: Option: American Road Route			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	-2	Gradients (8% over 300m, 4% over 400m). Fast road crossing
Environmental	Impacts/ Mitigation and Opportunities for Env Growth	-3	Widening and drainage works required within SAC
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking	1	No residential properties affected. Much of route on existing paths
Buildability/ Cost		1	Half of route on existing surface. Half requires surfacing along path
Deliverability	Inc planning/ legal	-2	Within SAC. Mitigation
	Total (note a score of -3 in any criteria should disqualify an option)	-5	

Section: PN-15 Option: 15A			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	2	Attractive amenity route, but two short on sections on quiet lanes
Environmental	Impacts/ Mitigation and Opportunities for Env Growth	-2	Large impact on ancient woodland and county wildlife site
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking	2	Existing PROW utilised. Site through CWS
Buildability/ Cost		-2	Large earthworks, retaining structures, mining features
Deliverability	Inc planning/ legal	-2	Planning difficulties
	Total (note a score of -3 in any criteria should disqualify an option)	-2	

Section: PN-15: Option: 15B			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	2	Off carriageway route. Some undesirable gradients
Environmental	Impacts/ Mitigation and Opportunities for Env Growth	0	Opportunity for additional land to be acquired
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking	-1	Loss of agricultural land
Buildability/ Cost		1	Predominantly across open fields
Deliverability	Inc planning/ legal	-1	Onerous planning requirements.
	Total (note a score of -3 in any criteria should disqualify an option)	1	

Section: PN-18: Option: 18A			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	1	Traffic free but indirect route, gradients, road crossing in difficult location.
Environmental	Impacts/ Mitigation and Opportunities for Env Growth	0	Section across wetland but good scope for mitigation
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking	-1	Landowners objecting but limited impact on residential properties
Buildability/ Cost		-1	Structure and switchbacks
Deliverability	Inc planning/ legal	0	CPO less likely
	Total (note a score of -3 in any criteria should disqualify an option)	-1	

Section: PN-18 Option: 18B			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	3	Direct, level. Road crossing in desirable location
Environmental	Impacts/ Mitigation and Opportunities for Env Growth	-1	Loss of section of woodland. Limited scope for mitigation
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking	-3	Purchase of residential property required. CPO probable.
Buildability/ Cost		0	No structures. Other earthworks/cutting required
Deliverability	Inc planning/ legal	-2	CPO, onerous planning
	Total (note a score of -3 in any criteria should disqualify an option)	-3	

Section: PN-18 Option: 18C			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	-1	Poor gradient, difficulty in tie in with carriageway. Sub-standard on carriageway section.
Environmental	Impacts/ Mitigation and Opportunities for Env Growth	-1	Loss of section of woodland. Limited scope for mitigation
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking	-2	Purchase of land within garden required. Probable CPO
Buildability/ Cost		1	No structures.
Deliverability	Inc planning/ legal	-2	CPO, onerous planning
	Total (note a score of -3 in any criteria should disqualify an option)	-5	

Section: PN-20 Option: 20A			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	3	Level traffic free route
Environmental	Impacts/ Mitigation and Opportunities for Env Growth	-2	Extensive removal of scrub interspersed with trees. Opportunity to mitigate alongside
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking	-2	Landowner opposed
Buildability/ Cost		2	No earthworks other than access ramps
Deliverability	Inc planning/ legal	-1	Landowner opposition. Ecology
	Total (note a score of -3 in any criteria should disqualify an option)	0	

Section: PN-20: Option: 20B			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	3	Level, traffic free route
Environmental	Impacts/ Mitigation and Opportunities for Env Growth	-1	Limited vegetation removal. Opportunity to mitigate alongside
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking	-2	Significant impact on farmland
Buildability/ Cost		-1	New embankment in boggy land adjacent to existing line
Deliverability	Inc planning/ legal	-1	Acquisition of agricultural land. Extensive material importing
	Total (note a score of -3 in any criteria should disqualify an option)	-2	

Section: PN-21 Options: 20A/B/C (similar options with minor variations)			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	2	Traffic free, attractive route. One section with poor gradient
Environmental	Impacts/ Mitigation and Opportunities for Env Growth	0	Low impact. In flood plain adjacent to watercourse.
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking	-2	Landowners highly opposed to lower routes
Buildability/ Cost		1	Good access. Some routes require structures. Wet, low lying land
Deliverability	Inc planning/ legal	-1	Difficulty in securing land
	Total (note a score of -3 in any criteria should disqualify an option)	0	

Section PN-21 Option: 20D/E (similar options with minor variation)			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	3	Traffic free route. Good gradients. Opportunity to provide additional links to other routes
Environmental	Impacts/ Mitigation and Opportunities for Env Growth	1	Low impact. Opportunity to acquire additional small areas for mitigation
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking	-1	Only route that landowner will not oppose, but still has significant effect
Buildability/ Cost		1	Opportunity to have significant section delivered as part of new development
Deliverability	Inc planning/ legal	1	Some land in CC ownership. No EA consents required
	Total (note a score of -3 in any criteria should disqualify an option)	5	

Section PN-21 Option: 20F			
Assessment Criteria	Definition	Assessment Score -3 to +3	Comments/ Rationale
Meets Objectives	Does it meet the objective of providing a safe and continuous high quality route for all users that people will want to use, and meet the unaccompanied 12 year old user "test"	3	Traffic free route. Good gradients. Opportunity to provide additional links to other routes
Environmental	Impacts/ Mitigation and Opportunities for Env Growth	1	Low impact. Opportunity to acquire additional small areas for mitigation
Impact on Landowners and those immediately adjacent to the routes	Injurious affection - impact on land use/ farming operation, access, loss of privacy/ overlooking	-1	Only route that landowner will not oppose, but still has significant effect
Buildability/ Cost		1	On existing alignment
Deliverability	Inc planning/ legal	1	Deliverable independent of uncertain development programmes
	Total (note a score of -3 in any criteria should disqualify an option)	5	

If you would like this information
in another format please contact:

Cormac, Higher Trenant, Wadebridge, PL27 6TW

Email: **comms@cormacltd.co.uk**

Telephone: **01872 323313**

www.cormacltd.co.uk

