



Proposed foundation:

For bridge columns/piers

- Bored piles
- 2x2 group of piles
- Separation between piles 5.0x5.0 m

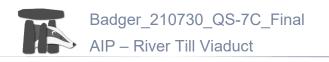
For bridge abutments

- Bored piles
- 2 lines of piles per abutment/bank seat

For bored piles of D=1500mm, in 2x2 groups, and with the A1 and A2 load combinations, the GEO ULS was verifies. The results indicate that the pile tip should be located at elevation 40-41m. Combination A2 was found to govern the Geotechnical design.

There is and interpreted fault at Ch. 4+150 approx. This marks zones of localised deeper weathering and disturbed ground that may affect foundation design (i.e. longer piles) of Abutments A-02N and A-02S. Targeted ground investigation is required.

Ref Borehole is CP5 (20long) with 2.6m of soil and structureless chalk, over 17.4m of weathered chalk





Appendix C – CDM designer's risk register for the River Till Viaduct

Potential hazards and risk have been defined and will be detailled in further stages, early stage and risks will continue to be considered as the design develops. A detailed risk register will be developed during detailed design.



DESIGN HAZARD ELIMINATION AND REDUCTION REGISTER

Document Reference	Quality Submission		Positive information to be Included on Drawing Nove.
Date	04 February 2021		
Structure	River Till Viaduct		Design Measures to Fliminate
Engineering Discipline	Structures		
Design Stage	Tender Design		
Project Name	303 Amesbury to Berwick Down (Stonehenge) - River Till Viaduct		
	Designs Stage Engineering Discipline Structure Date	Project Name Dasign Stage Engineering Discipline Structures Date Date ry to Berwick Down (Stonehenge) - River Till Vaduct Tender Design Structures River Till Viaduct 04 February 2021 C	Project Name Design Shage Engineering Discipline Structure Date Date vy lo Berwick Down (Stonehenge) - River Till Tender Design Tender Design Structures River Till Viaduct 04 February 2021 Quaduct

	Proje	Project Name	Design Stage	Engi	Engineering Discipline		5	Structure	Date		Document Reference	teference
A303 Ame	sbury to Berwick	A303 Amesbury to Berwick Down (Stonehenge) - River Till Viaduct	Tender Design		Structures		River	River Till Viaduct	04 February 2021		Quality Submission	bmission
Ref:	Phase C/M/D	Activity	Potential Hazards	Risk	Person(s) Affect	S 1	R Design Meas	Design Measures to Eliminate Hazards	Design Measures to Reduce Risk	Residual risk information to be provided going forward	S R	Included on Drawing/Document No.'s - References
1.0	υ	Construction of River Till Viaduct	In-Situ construction works	Injury to workforce	Site personnel	4	Design to allow the where possible to conditions	Design to allow the offsite manufacture k where possible to ensure controlled conditions	identification and Communication of design advice such as guildance on the equipment to be used	Competent constracto to be used and detailed construction risk assessment to be completed upon reward of detailed design.	3 4	
2.0	υ	Construction of River Till Viaduct	Dropping of heavy items, materials Canarounders and Lifting of materials destroyed materials destroyed to materials and damage to materials and turned.	Dropping of heavy items, material during construction resulting in injury and derath and demage to materials and tunnel.	Site personnel	3	The use of mecha designed where p	The use of mechanical hoists to be designed where possible to reduce lifting p	Identification and Communication of design advice including the correct procedure for lifting materials and the use of crash/protection decks	Contractor to follow design advice and follow appropriate lifting procedures. Protection/Crash decks to be designed	2 5 10	
3.0	C&M	Operation of Highways	Terrorist attack	Injury to public	Public	2 4	8 N/A	W 2 9 8	Security management and security features of building to be designed at detailed design stage, specialist advise to be sought at design stage.	Contractor to follow design advice and build to design	4 4	
4.0	×	Repair and maintenance of operational highway, street furniture and landscaping	Difficulty in conducting repails over operational highway	Vencular accidents during maintenance Public and site personnel causing rijury and death	Public and site personnel	6.	Design should be robust to functionally of operational design out maintenache ra where possible. Maintenan be designed to reduce disnerable remote monitoring.	ensure highway and quirements ce regime to uption and	Safety features (such as walkways) to be designed at defailed design stage. Waintenance regime to be determined at detailed design stage	Steay features (such as welloways) to be Residual risk information to be included designated at detailed design stage. Note that the Chain of the operational and the Health and Maintenance regime to be determined at Steay Pile. Chaing the operational detailed design stage chains of the chain of the chain and	4	
9.0	>	Operation of Highways	Heavier vehicle than considered in the design above River Till viaduct	Damage to the structural stability and potential breakdown	Public and road user	2 3	Design should be robu resistance allovable an solutions where platic is structure could appear	st and take extra d provide (tegral cehaviour in	Include additional signaling with the limitation of load over the bridge as per design specifications	Maintenance team to take into account limitations in the programme	2 2 4	
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Phase					54					Hierarc	Hierarchy of Mitigation	uo	ı
Construction									1. Elimin	ate hazaro	1. Eliminate hazard - design out		
Maintain/Clean									2. Reduc	e risk at so	2. Reduce risk at source - amend design	sign	
D Demolish/Adapt									3. Provic	de risk info	3. Provide risk information - add to design	design	
													1
Team Badger	Team Badger									Date	Date: 04 February 2021	21	
Team Badger Internal	n Badger Internal									Date:	::		
Team Badger Internal	n Badger Internal									Date:	**		_



