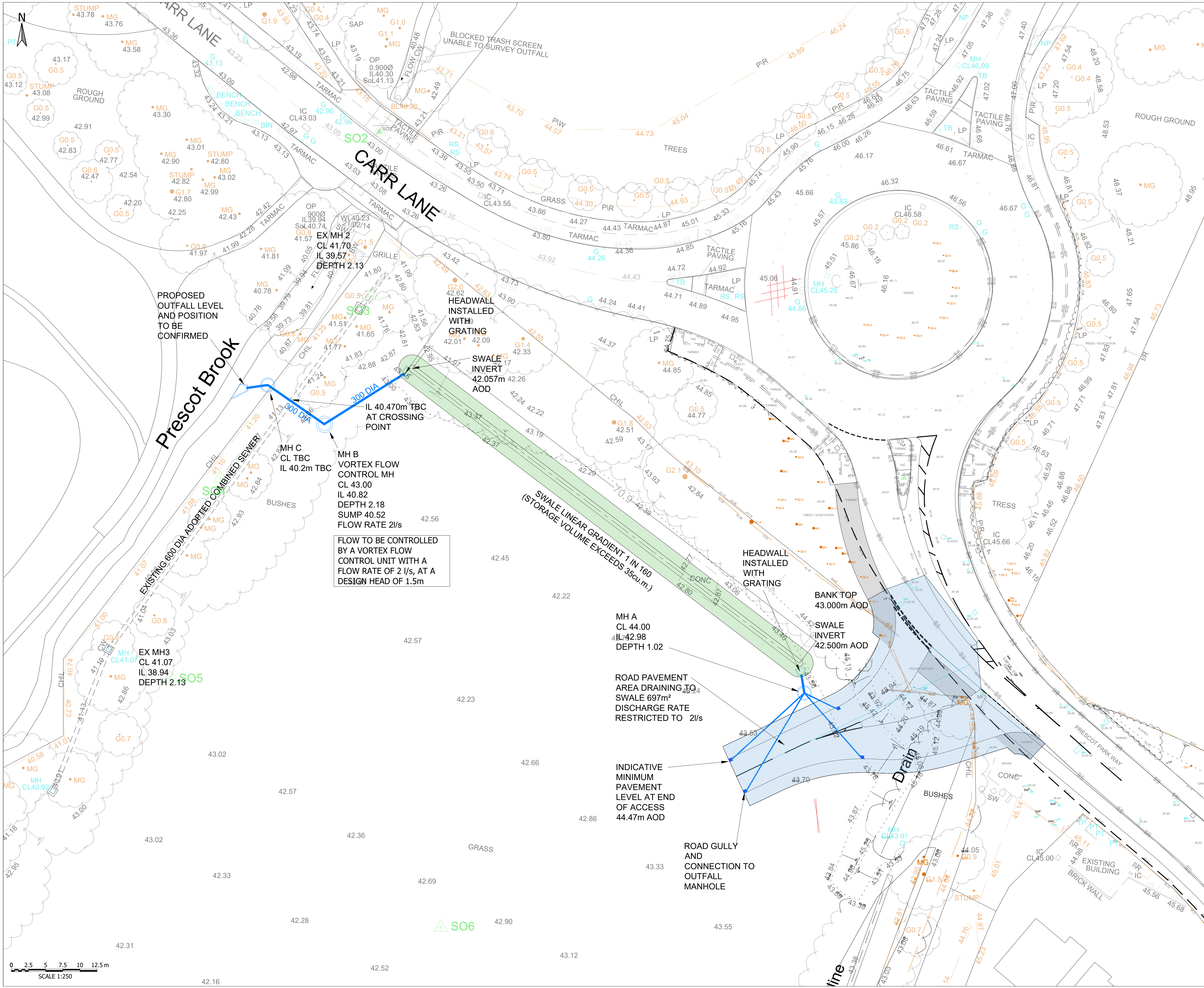
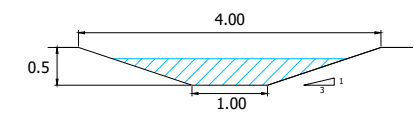




- NOTES
1. ALL LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
 2. THE PROPOSED ACCESS ROAD DRAINAGE WILL DISCHARGE TO A PROPOSED CONVEYANCE AND ATTENUATION SWALE. THE SWALE WILL BE CONSTRUCTED WITH A LINEAR GRADIENT OF 1 IN 160 SUBJECT TO FINAL DESIGN AND OUTFALL TO PRESCOT BROOK AT A CONTROLLED RATE OF 2 l/s.
 3. THE CATCHMENT AREA OF THE CONTRIBUTING HIGHWAY PAVEMENT HAS BEEN ASSESSED AS 697 m².
 4. THE PROPOSED LAYOUT IS BASED UPON THE MINIMUM CLEARANCE OF VEGETATION WITHIN THE NORTHERN AND WESTERN BOUNDARY OF THE SITE AND APPROPRIATE GRADING OF THE SITE PRIOR TO CONSTRUCTION OF THE SWALE.
 5. THE SWALE SHOULD BE CONSTRUCTED AND VEGETATION ESTABLISHED PRIOR TO THE SWALE COMING INTO SERVICE.
 6. A NEW OUTFALL TO PRESCOT BROOK IS PROPOSED WHICH WILL REQUIRE EA APPROVAL / LLFA.
 7. VEGETATION WITHIN THE SWALE SHOULD BE MAINTAINED AT A HEIGHT OF 75 - 150mm.
 8. SWALES SHOULD NOT RECEIVE ANY RUNOFF UNTIL THE VEGETATION IS FULLY ESTABLISHED AND CONSTRUCTION AT THE SITE HAS REACHED A STATE WHERE SEDIMENT LOADS WILL NOT CAUSE ROAD SILTATION OFF THE SWALE. THIS CAN BE ACHIEVED BY:
 - DIVERTING FLOWS UNTIL THE VEGETATION IS WELL ROOTED,
 - THE USE OF AN EROSION CONTROL BLANKET OVER APPLIED SEED MIX,
 - USING BARE EARTH AS A TEMPORARY COVER DURING THE WET SEASON AND SEEDING WITH A SUITABLE GRASS MIX WHEN WEATHER IS SUITED TO SEED GERMINATION.
 10. THE SWALES SHOULD BE MAINTAINED IN ACCORDANCE WITH THE DEVELOPMENT SITES MAINTENANCE PLAN TO ENSURE THE CORRECT PERFORMANCE AND OPERATION OF THE SWALE.



Indicative Cross Section of Swale
(Dimensions to be confirmed during detailed design)

Water Volume Result
Water depth: 500mm maximum depth
Water volume: 35m³

Maximum volume for the 1 in 100 year + 40% including 10% urban creep allowance for climate change for a contributing area of 700 sq.m. requires an attenuation volume of 32 cu.m.

PLANNING ISSUE

P02	SWALE LAYOUT REVISED	3/5/2021	GM	GM	
P01	PRELIMINARY FIRST ISSUE	XX.XX.XX			
Rev	Description	Date	Dm	Chk	App

Issuing Office
Tetra Tech Manchester
Quay West at Media City UK,
Trafford Wharf Road, Trafford Park,
Manchester, M17 1HH
Tel: +44 (0)161 872 3223
www.tetrateteurope.com



Client
UNITED UTILITIES

Project Name
CARR LANE, PRESCOT

Sheet Title
SURFACE WATER DRAINAGE STRATEGY

TYE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale	@ A1	Suitability
B028286	DH	JAN 22	GM	JAN 22	GM	JAN 22	1:250		S0
Client Project Number	Originator	Volume/System	Level/Location	Type/Code	Role	Number	Revision		
PRJ01	- TTE	- 00	- ZZ	- DR	- C	- 0001			P02

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