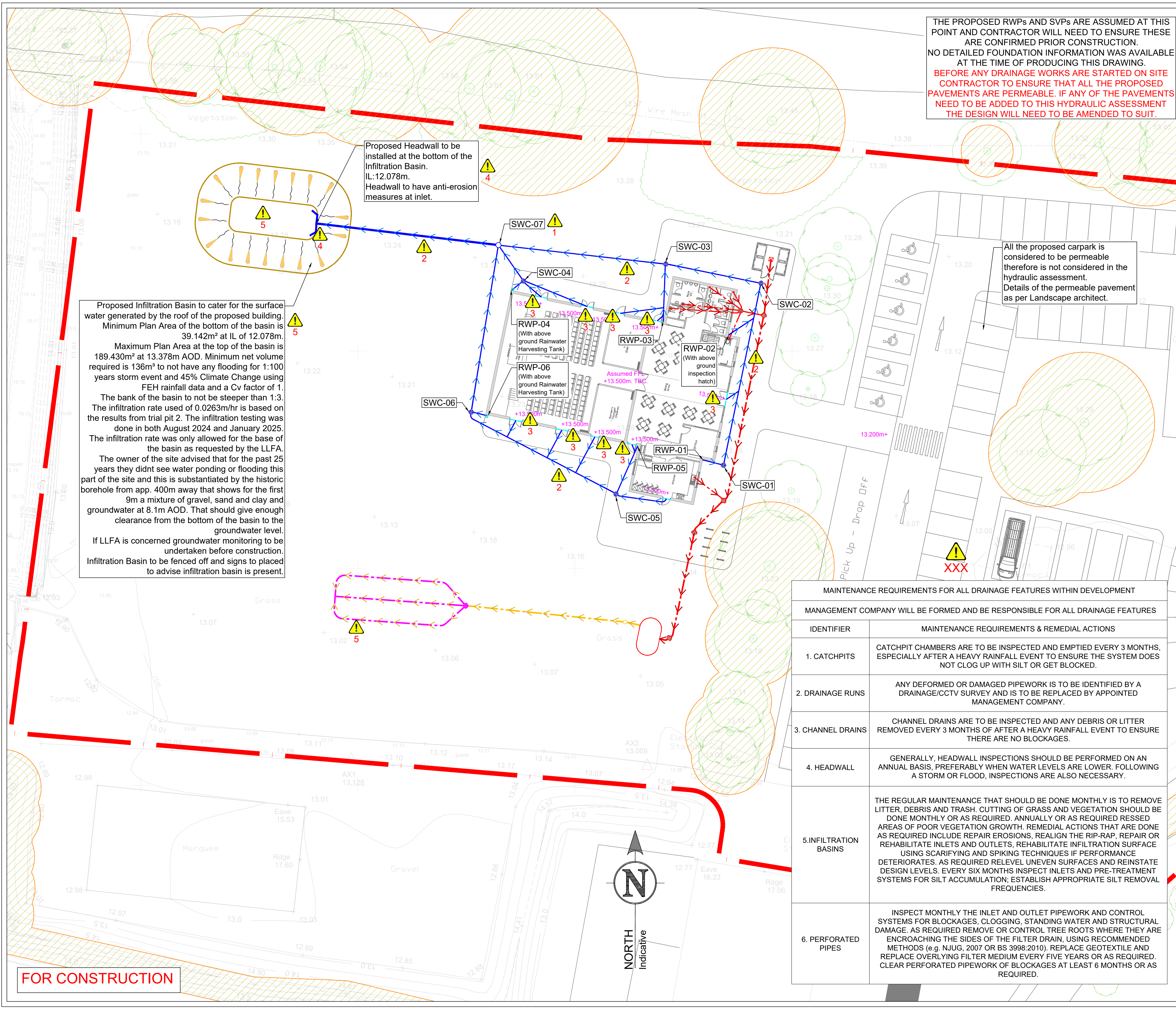




THE PROPOSED RWP's AND SVP's ARE ASSUMED AT THIS POINT AND CONTRACTOR WILL NEED TO ENSURE THESE ARE CONFIRMED PRIOR CONSTRUCTION. NO DETAILED FOUNDATION INFORMATION WAS AVAILABLE AT THE TIME OF PRODUCING THIS DRAWING. BEFORE ANY DRAINAGE WORKS ARE STARTED ON SITE CONTRACTOR TO ENSURE THAT ALL THE PROPOSED PAVEMENTS ARE PERMEABLE. IF ANY OF THE PAVEMENTS NEED TO BE ADDED TO THIS HYDRAULIC ASSESSMENT THE DESIGN WILL NEED TO BE AMENDED TO SUIT.

Proposed Headwall to be installed at the bottom of the Infiltration Basin. IL:12.078m. Headwall to have anti-erosion measures at inlet.

All the proposed carpark is considered to be permeable therefore is not considered in the hydraulic assessment. Details of the permeable pavement as per Landscape architect.

Proposed Infiltration Basin to cater for the surface water generated by the roof of the proposed building. Minimum Plan Area of the bottom of the basin is 39.142m² at IL of 12.078m. Maximum Plan Area at the top of the basin is 189.430m² at 13.378m AOD. Minimum net volume required is 136m³ to not have any flooding for 1:100 years storm event and 45% Climate Change using FEH rainfall data and a Cv factor of 1. The bank of the basin to not be steeper than 1:3. The infiltration rate used of 0.0263m/hr is based on the results from trial pit 2. The infiltration testing was done in both August 2024 and January 2025. The infiltration rate was only allowed for the base of the basin as requested by the LLFA. The owner of the site advised that for the past 25 years they didnt see water ponding or flooding this part of the site and this is substantiated by the historic borehole from app. 400m away that shows for the first 9m a mixture of gravel, sand and clay and groundwater at 8.1m AOD. That should give enough clearance from the bottom of the basin to the groundwater level. If LLFA is concerned groundwater monitoring to be undertaken before construction. Infiltration Basin to be fenced off and signs to placed to advise infiltration basin is present.

DRAWING TO BE PRINTED IN COLOUR.

- KEY:
- Proposed Surface Water Pipes.
 - Proposed Foul Water Pipes.
 - Proposed Treated Effluent Pipes.
 - Proposed Perforated Pipes to form a drainage field to infiltrate treated effluent.
 - Channel drain position shown indicative. Threshold drains to be detailed by architect.
 - Proposed Site Boundary.
 - Indicative RWP (Assumed will need TBC)
 - Indicative SVP (Assumed will need TBC)
 - Proposed SW Inspection/catchpit Chamber.
 - Proposed FW Inspection Chambers.
 - Proposed indicative ground levels to be confirmed in subsequent design stages.
 - Existing Levels as per topo survey.
 - Root Protection Areas as per information from the arboricultural report. Any work close to these areas to be done with care.

- NOTES:
- DRAWING WILL NEED TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS FROM ARCHITECT, LANDSCAPE ARCHITECT, STRUCTURAL ENGINEER AND M&E.
 - PROPOSED LEVELS ARE BASED ON ASSUMPTIONS AND WILL NEED TBC.
 - NO FOUNDATION DESIGN WAS AVAILABLE AT THE TIME OF PRODUCING THIS DRAWING.
 - THE INFILTRATION RATE OF 0.0263m/hr FOR THE INFILTRATION BASIN IS BASED ON TESTING DONE ON SITE IN TRIAL PIT 2.
 - CATCH-PITS TO HAVE 300mm SUMP FROM VALUE SHOWN IN TABLE. IS SHOWN AS CP IN THE TABLE.
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATION THIS DRAINAGE DESIGN WITH OTHER UTILITIES AND CHECK FOR CLASHES. ANY UNAVOIDABLE CLASHES TO BE REPORTED TO DRAINAGE DESIGN ENGINEER.
 - ALL SURFACE WATER PIPES TO BE Ø100mm LAID AT A GRADIENT BETWEEN 1:10 AND 1:100 UNLESS OTHERWISE NOTED.
 - COVERS FOR CHAMBERS TO BE B125 IN GARDEN AREAS AND C250 IN ACCESS DRIVE. IN ROAD OR WHERE EMERGENCY VEHICLES ARE TO ACCESS THE AREA D400 COVERS TO BE USED.
 - SETTING OUT FOR RWP AND SVP TO BE PROVIDED BY ARCHITECT. ANY SIGNIFICANT DEPARTURES TO BE ASAP REPORTED TO DESIGNER.
 - ALL WORKS AND MATERIALS AS PER GUIDANCE FROM BUILDING REGULATIONS PART H.

IMPORTANT
DRAWING MUST BE PRINTED IN COLOUR. NO DEVIATION MAY BE MADE FROM THE CONTENTS OF THIS DRAWING WITHOUT PRIOR PERMISSION FROM THE ENGINEER. THIS DRAWING IS TO BE REMOVED FROM CURRENCY IMMEDIATELY AFTER A REVISED EDITION HAS BEEN ISSUED. ALL RIGHTS DESCRIBED IN CHAPTER IV OF THE COPYRIGHT DESIGN ACTS 1988 HAVE BEEN GENERALLY ASSERTED.

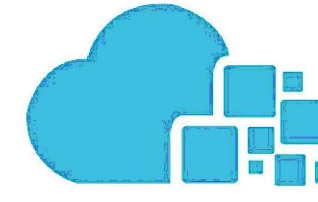
MAINTENANCE REQUIREMENTS FOR ALL DRAINAGE FEATURES WITHIN DEVELOPMENT	
MANAGEMENT COMPANY WILL BE FORMED AND BE RESPONSIBLE FOR ALL DRAINAGE FEATURES	
IDENTIFIER	MAINTENANCE REQUIREMENTS & REMEDIAL ACTIONS
1. CATCHPITS	CATCHPIT CHAMBERS ARE TO BE INSPECTED AND EMPTIED EVERY 3 MONTHS, ESPECIALLY AFTER A HEAVY RAINFALL EVENT TO ENSURE THE SYSTEM DOES NOT CLOG UP WITH SILT OR GET BLOCKED.
2. DRAINAGE RUNS	ANY DEFORMED OR DAMAGED PIPEWORK IS TO BE IDENTIFIED BY A DRAINAGE/CCTV SURVEY AND IS TO BE REPLACED BY APPOINTED MANAGEMENT COMPANY.
3. CHANNEL DRAINS	CHANNEL DRAINS ARE TO BE INSPECTED AND ANY DEBRIS OR LITTER REMOVED EVERY 3 MONTHS OF AFTER A HEAVY RAINFALL EVENT TO ENSURE THERE ARE NO BLOCKAGES.
4. HEADWALL	GENERALLY, HEADWALL INSPECTIONS SHOULD BE PERFORMED ON AN ANNUAL BASIS, PREFERABLY WHEN WATER LEVELS ARE LOWER. FOLLOWING A STORM OR FLOOD, INSPECTIONS ARE ALSO NECESSARY.
5. INFILTRATION BASINS	THE REGULAR MAINTENANCE THAT SHOULD BE DONE MONTHLY IS TO REMOVE LITTER, DEBRIS AND TRASH. CUTTING OF GRASS AND VEGETATION SHOULD BE DONE MONTHLY OR AS REQUIRED. ANNUALLY OR AS REQUIRED RESSED AREAS OF POOR VEGETATION GROWTH. REMEDIAL ACTIONS THAT ARE DONE AS REQUIRED INCLUDE REPAIR EROSIONS, REALIGN THE RIP-RAP, REPAIR OR REHABILITATE INLETS AND OUTLETS, REHABILITATE INFILTRATION SURFACE USING SCARIFYING AND SPIKING TECHNIQUES IF PERFORMANCE DETERIORATES. AS REQUIRED RELEVEL UNEVEN SURFACES AND REINSTATE DESIGN LEVELS. EVERY SIX MONTHS INSPECT INLETS AND PRE-TREATMENT SYSTEMS FOR SILT ACCUMULATION; ESTABLISH APPROPRIATE SILT REMOVAL FREQUENCIES.
6. PERFORATED PIPES	INSPECT MONTHLY THE INLET AND OUTLET PIPEWORK AND CONTROL SYSTEMS FOR BLOCKAGES, CLOGGING, STANDING WATER AND STRUCTURAL DAMAGE. AS REQUIRED REMOVE OR CONTROL TREE ROOTS WHERE THEY ARE ENCRDACHING THE SIDES OF THE FILTER DRAIN, USING RECOMMENDED METHODS (e.g. NJUG, 2007 OR BS 3998:2010). REPLACE GEOTEXTILE AND REPLACE OVERLYING FILTER MEDIUM EVERY FIVE YEARS OR AS REQUIRED. CLEAR PERFORATED PIPEWORK OF BLOCKAGES AT LEAST 6 MONTHS OR AS REQUIRED.

REV	DATE	DRAWN	DESCRIPTION	CHECK	APPR.
B	25-09-26	M.H	Issued for Construction.	SL	SL
A	23-09-26	M.H	For Information.	SL	SL

PROJECT:
C3879 - Tokar Industrial Estate, Yapton Lane, Walberton, Arundel, BN18 0AS

TITLE:
Proposed Surface Water Maintenance and Management Plan.

CLIENT:
Tokar Limited



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CHECKED BY: S.L	DATE: 23-09-26	APPROVED BY: S.L	DATE: 23-09-26
DRN BY: M.H	SCALE: 1:200	DRAWING NUMBER: C3879-05	REV: B
DATE: 23-09-26	SIZE: A1		

FOR CONSTRUCTION