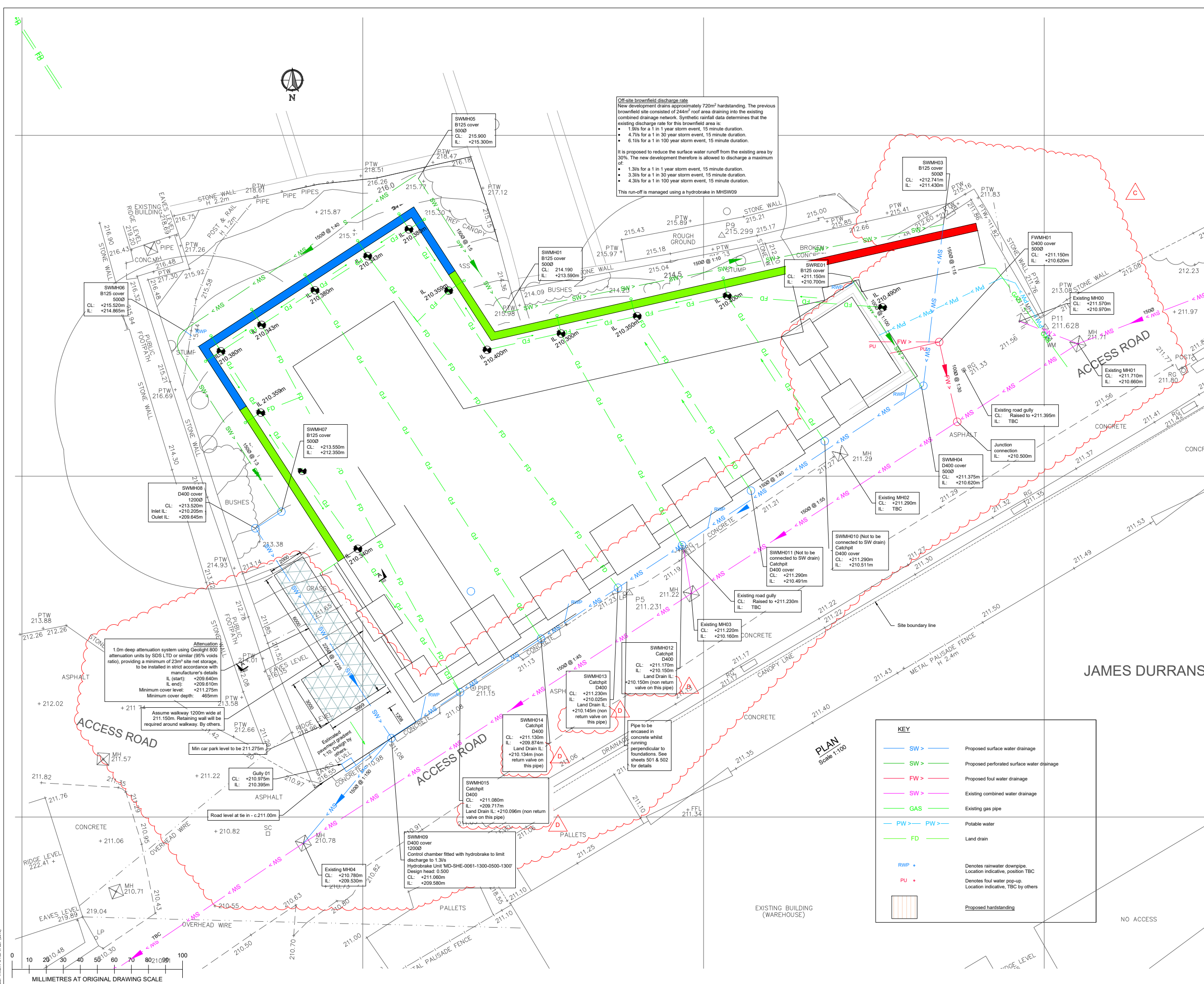




Off-site brownfield discharge rate
New development drains approximately 720m² hardstanding. The previous brownfield site consisted of 244m² roof area draining into the existing combined drainage network. Synthetic rainfall data determines that the existing discharge rate for this brownfield area is:
• 1.3ls for a 1 in 1 year storm event, 15 minute duration.
• 4.7ls for a 1 in 30 year storm event, 15 minute duration.
• 6.1ls for a 1 in 100 year storm event, 15 minute duration.
It is proposed to reduce the surface water runoff from the existing area by 30%. The new development therefore is allowed to discharge a maximum of:
• 1.3ls for a 1 in 1 year storm event, 15 minute duration.
• 3.3ls for a 1 in 30 year storm event, 15 minute duration.
• 4.3ls for a 1 in 100 year storm event, 15 minute duration.
This run-off is managed using a hydrobrake in MHSW09

- NOTES**
- DO NOT SCALE OFF THIS DRAWING.
 - SHOULD THERE BE ANY CONFLICT BETWEEN THE DETAILS INDICATED ON THIS DRAWING AND THOSE INDICATED ON OTHER DRAWINGS THE ENGINEER SHOULD BE INFORMED PRIOR TO CONSTRUCTION ON SITE.
 - ALL DRAWINGS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXECUTE THE WORKS AT ALL TIMES IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE HEALTH AND SAFETY AT WORK ACT 1974 AND CDM REGULATIONS 2015.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
 - ALL DRAINAGE IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE BUILDING REGULATIONS.
 - DRAINAGE ON SITE IS CONSIDERED AS PRIVATE, AND IS NOT SUBJECT TO BEING ADOPTED.
 - ALL MANHOLE COVER LEVELS ARE APPROXIMATE.
 - ALL RAINWATER DOWNPIPES TO BE FITTED WITH A RODDING FACILITY LOCATED ABOVE GROUND LEVEL.
 - SURFACE WATER DRAINAGE HAS BEEN DESIGNED TO SATISFY THE FOLLOWING CRITERIA:
 - NO SURCHARGE DURING A 1 IN 2 YEAR STORM + 10% URBAN CREEP (NOT INCLUDING DRAINAGE RUNS ATTACHED TO ATTENUATION)
 - NO SITE FLOODING DURING A 1 IN 30 YEAR STORM + 10% URBAN CREEP
 - NO OFF-SITE OR BUILDING FLOODING DURING A 1 IN 100 YEAR STORM + 10% URBAN CREEP + 30% CC
 - ALL OF THE ABOVE HAVE BEEN CHECKED UNDER THE FOLLOWING STORM DURATIONS:
15 MINUTES, 30 MINUTES, 60 MINUTES, 120 MINUTES, 240 MINUTES, 360 MINUTES, 480 MINUTES, 960 MINUTE AND 1440 MINUTES.
 - DRAINAGE DESIGN IS PRELIMINARY UNTIL APPROVAL IS OBTAINED FROM YORKSHIRE WATER AND BARNSELY METROPOLITAN BOROUGH COUNCIL.

SAFETY, HEALTH AND ENVIRONMENTAL	
IN ADDITION TO THE HAZARDS OR RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, THE FOLLOWING SIGNIFICANT RESIDUAL RISKS SHOULD BE NOTED.	
CONSTRUCTION:	
MAINTENANCE, CLEANING AND OPERATION :	
DECOMMISSIONING OR DEMOLITION :	

PRELIMINARY							
D	FLAP VALVES ADDED TO SWMH12-15 INLETS FROM LAND DRAINS	TS	TF	TF	TF	19/03/21	
C	AS CLOUDED, ATTENUATION MOVED, LAND DRAIN ALONG FRONT OMITTED. CATCHPITS ADDED. POP UP POSITIONS AMENDED.	TS	TF	TF	TF	19/03/21	
B	MANHOLE COVER LEVELS UPDATED	TS	TF	TF	TF	11/01/21	
A	DRAINAGE UPDATED	TS	TF	TF	TF	08/01/21	
-	FIRST ISSUE	TS	TF	TF	TF	28/11/20	
REV	DESCRIPTION	BY	CHK	APP	DATE		

CLIENT:

MCS PROJECTS

HBPW PROJECT NUMBER: **SL05821**

PROJECT: **SAVILLE LANE**

THURLSTONE, S36 9RE

DRAWING: **PROPOSED DRAINAGE LAYOUT**

PROJECT ENGINEER: T.STEVENS	DRAWN: T.STEVENS
CHECKED: T.FLINT	APPROVED: T.FLINT
DATE: 27.11.2020	SCALE: 1:100
DOCUMENT REFERENCE NUMBER: SL05821.500	SUITABILITY: S0
	REVISION: D

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JAMES DURRANS &

KEY	
— SW > —	Proposed surface water drainage
— SW > —	Proposed perforated surface water drainage
— FW > —	Proposed foul water drainage
— SW > —	Existing combined water drainage
— GAS —	Existing gas pipe
— PW > — PW > —	Potable water
— FD —	Land drain
RWP •	Denotes rainwater downpipe. Location indicative, position TBC
PU •	Denotes foul water pop-up. Location indicative, TBC by others
[Hatched Box]	Proposed hardstanding

