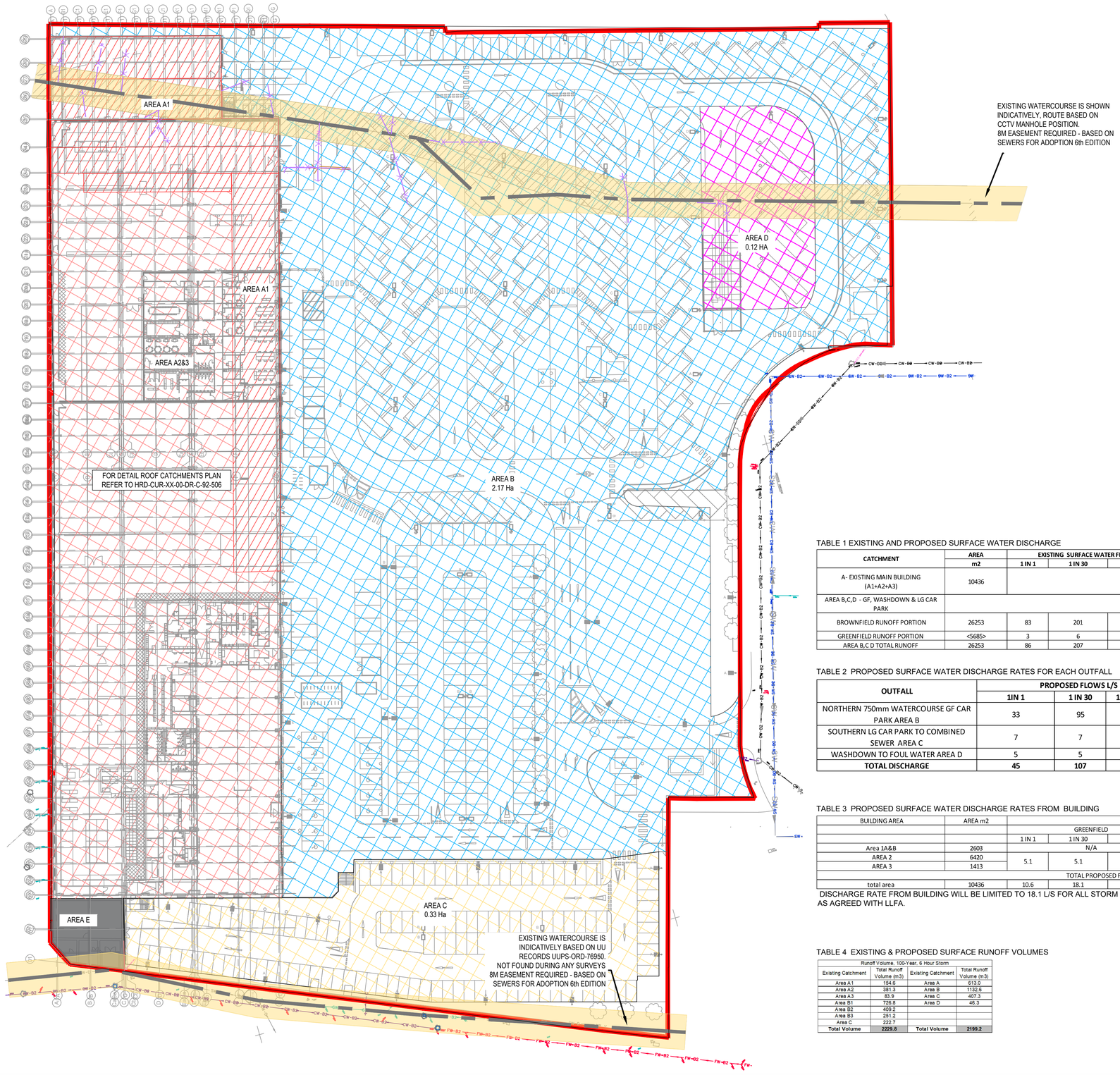


GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.

PROPOSED SITE BOUNDARY BASED ON HRD-FRA-00-XX-DR-A-90-0200

CATCHMENT A1: EXISTING BUILDING 50% REDUCTION

CATCHMENT A2&3: EXISTING BUILDING GREENFIELD RATES

CATCHMENT B: GROUND FLOOR CARPARK

CATCHMENT C: LOWER FLOOR CARPARK

CATCHMENT D: WASHDOWN AREA

CATCHMENT E: EXISTING SUBSTANION

8M EASEMENT BASED ON SEWER FOR ADOPTION 6TH EDITION

UNITED UTILITIES RECORDS UUPS-ORD-76950
ALL UU ASSETS ARE SHOWN INDICATIVELY

- FW: UU FOUL WATER SEWER
- SW: UU SURFACE WATER SEWER
- CW: UU COMBINED WATER SEWER
- WATERCOURSE

DRAWING BASED ON SITE PLAN HRD-FRA-00-XX-DR-A-90-0200 C02

TABLE 1 EXISTING AND PROPOSED SURFACE WATER DISCHARGE

CATCHMENT	AREA	EXISTING SURFACE WATER FLOW L/S			NOTES	PROPOSED SURFACE WATER FLOW L/S		
	m2	1 IN 1	1 IN 30	1 IN 100		1 IN 1	1 IN 30	1 IN 100+40%CC
A- EXISTING MAIN BUILDING (A1+A2+A3)	10436	AS PER TABLE 3						
AREA B,C,D - GF, WASHDOWN & LG CAR PARK								
BROWNFIELD RUNOFF PORTION	26253	83	201	264	50% REDUCTION	42	101	132
GREENFIELD RUNOFF PORTION	<5685>	3	6	8		3	6	8
AREA B,C D TOTAL RUNOFF	26253	86	207	272		45	107	140

TABLE 2 PROPOSED SURFACE WATER DISCHARGE RATES FOR EACH OUTFALL

OUTFALL	PROPOSED FLOWS L/S			PROPOSED AREA
	1IN 1	1 IN 30	1 IN 100+40%CC	M2
NORTHERN 750mm WATERCOURSE GF CAR PARK AREA B	33	95	128	21749
SOUTHERN LG CAR PARK TO COMBINED SEWER AREA C	7	7	7	3300
WASHDOWN TO FOUL WATER AREA D	5	5	5	1204
TOTAL DISCHARGE	**45**	**107**	**140**	**26253**

TABLE 3 PROPOSED SURFACE WATER DISCHARGE RATES FROM BUILDING

BUILDING AREA	AREA m2	FLOW l/s								
		GREENFIELD			50%REDUCTION RATE			EXISTING		
		1 IN 1	1 IN 30	1 IN 100	1 IN 1	1 IN 30	1 IN 100	1 IN 1	1 IN 30	1 IN 100
Area 1A&B	2603	N/A			5.5	13	17	11	26	34
AREA 2	6420	5.1	5.1	5.1	N/A			N/A		
AREA 3	1413				N/A			N/A		
TOTAL PROPOSED FLOWS										
total area	10436	10.6	18.1	22.1						

DISCHARGE RATE FROM BUILDING WILL BE LIMITED TO 18.1 L/S FOR ALL STORM EVENTS, AS AGREED WITH LLFA.

TABLE 4 EXISTING & PROPOSED SURFACE RUNOFF VOLUMES

Runoff Volume, 100-Year, 6 Hour Storm			
Existing Catchment	Total Runoff Volume (m3)	Existing Catchment	Total Runoff Volume (m3)
Area A1	154.6	Area A	613.0
Area A2	381.3	Area B	1132.6
Area A3	83.9	Area C	407.3
Area B1	726.8	Area D	46.3
Area B2	409.2		
Area B3	251.2		
Area C	222.7		
Total Volume	**2229.8**	**Total Volume**	**2199.2**

Rev:	Description:	Date:	By:	Chkd:
P13	RUNOFF VOLUMES ADDED	01.05.25	ATL	ATL
P12	UPDATED FOR NEW TENDER	29.01.24	ATL	MW
C02	AREAS B&D DRAINAGE FLOWS AMENDED	23.11.22	ATL	MW
C01	CONSTRUCTION ISSUE	23.09.22	ATL	MW
P11	MAIN BUILDING GROUND FLOOR UPDATED	22.08.22	ATL	MW
P10	CATCHMENTS UPDATED TO NEW SITE PLAN UPDATED	15.07.22	MW	MW
P09	DRAINAGE NOTE ADDED	25.04.22	ATL	MW
P08	UPDATED IN LINE WITH COMMENTS	07.04.22	ATL	MW
P07	MAIN BUILDING DRAINAGE AMENDED	22.03.22	ATL	MW
P06	STAGE 4 UPDATED	16.08.21	MW	MW
P05	STAGE 4 UPDATED	05.08.21	ATL	MW
P04	SITE LAYOUT UPDATED & FLOW RATES	03.12.20	MW	MW
P03	ISSUED FOR STAGE 3	18.11.20	MW	MW
P02	ISSUED FOR STAGE 3	29.01.19	MW	CG
P01	ISSUED FOR INFORMATION	21.12.18	CD	CG

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Status: STAGE 5

Project: HAMMERSTONE ROAD

Drg Title: PROPOSED CATCHMENT PLAN

Project No:	Size:	Date:	Drawn By:	Designed By:	Checked By:
068065	A1	21/12/18	CD	CD	CG
	Scale: 1:500				

Project Code: Originator: Zone: Level: Type: Discipline: Category / Number: Rev:

HRD - CUR - XX - 00 - DR - C - 92-505 -P13

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