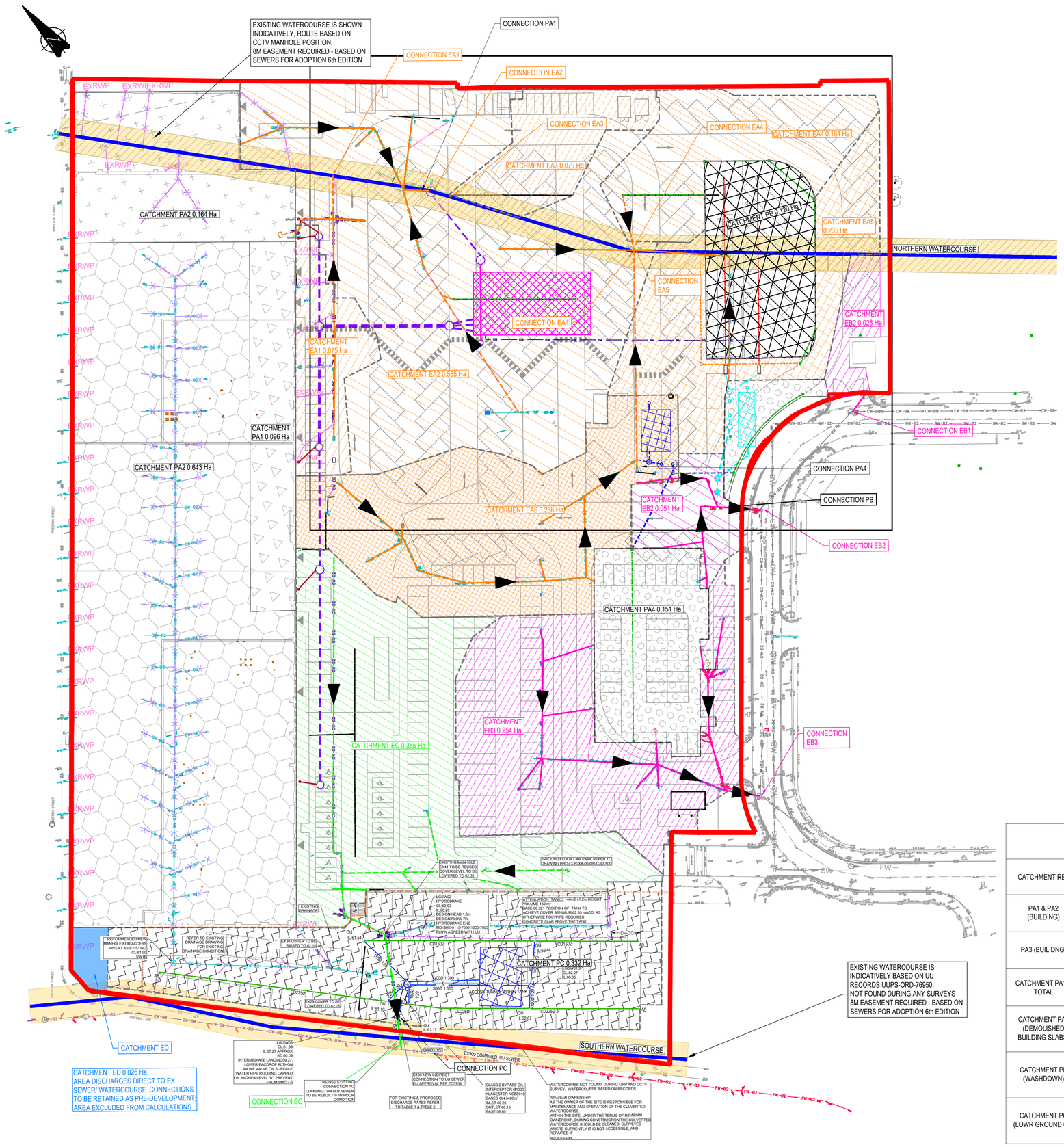



## GENERAL NOTES:

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.

KEY:

- PROPOSED SITE BOUNDARY BASED ON 18021-FRA-ZZ-XX-DR-A-1003-P1
- INDICATIVE LOCATION OF CULVERTED WATERCOURSE

PROPOSED CATCHMENTS

CATCHMENT PA

- PROPOSED DRAINAGE ROUTE (PA1-3)
- PROPOSED DRAINAGE ROUTE (PA4)
- CATCHMENT AREA PA1
- CATCHMENT AREA PA2
- CATCHMENT AREA PA3
- CATCHMENT AREA PA4

CATCHMENT PB

- PROPOSED DRAINAGE ROUTE
- CATCHMENT AREA PB

CATCHMENT PC

- PROPOSED DRAINAGE ROUTE
- CATCHMENT AREA PC

CATCHMENT EA

- EXISTING DRAINAGE ROUTE (SURVEYED)
- EXISTING DRAINAGE ROUTE (ASSUMED)
- CATCHMENT AREA EA1
- CATCHMENT AREA EA2
- CATCHMENT AREA EA3
- CATCHMENT AREA EA4
- CATCHMENT AREA EA5
- CATCHMENT AREA EA6

CATCHMENT EB

- EXISTING DRAINAGE ROUTE (SURVEYED)
- EXISTING DRAINAGE ROUTE (ASSUMED)
- CATCHMENT AREA EB1
- CATCHMENT AREA EB2
- CATCHMENT AREA EB3

CATCHMENT EC

- EXISTING DRAINAGE ROUTE (SURVEYED)
- EXISTING DRAINAGE ROUTE (ASSUMED)
- CATCHMENT AREA EC

CATCHMENT ED

- CATCHMENT AREA ED

### TABLE 2: RETAINED DRANAGE, POST DEVELOPMENT FLOWS: BASED ON FLOW MODELLING SOFTWARE

| CATCHMENT REF | AREA (Ha) [% OF PRE-DEVELOPMENT ] | FLOW RATE - 1:1 YEAR STORM EVENT | FLOW RATE - 1:30 YEAR STORM EVENT | FLOW RATE - 1:100 YEAR STORM EVENT |
|---|---|---|---|---|
| EA1 | 0.074 [42%] | 8.6 | 21.2 | 27.2 |
| EA2 | 0.585 [100%] | 20.8 | 26.2 | 27.2 |
| EA3 | 0.067 [100%] | 8.0 | 19.5 | 25.1 |
| EA4 | 0.130 [79%] | 15.3 | 33.7 | 41.6 |
| EA5 | 0.149 [63%] | 11.7 | 24.3 | 31.1 |
| EA6 | 0.286 [93%] | 24.5 | 35.4 | 38.2 |
| EA7 | 0.000 [0%] | - | - | - |
| CATCHMENT EA TOTAL | 1.311 [77%] | 85.9 | 156.4 | 185.9 |
| EB1 | 0.028 [100%] | 3.3 | 8.1 | 10.4 |
| EB2 | 0.051 [74%] | 6.0 | 14.3 | 18.5 |
| EB3 | 0.254 [76%] | 28.1 | 63.9 | 71.8 |
| CATCHMENT EB TOTAL | 0.308 [71%] | 37.4 | 86.3 | 100.7 |
| CATCHMENT EC | 0.355 [26%] | 36.5 | 61.9 | 69.8 |
| CATCHMENT ED | 0.026 [15%] | EXCLUDED FROM CALCULATIONS: EXISTING RWPs CONNECT DIRECT TO PUBLIC SEWER & ARE TO BE RETAINED. | | |

### TABLE 3: PROPOSED CATCHMENTS MAXIMUM FLOW RATES

| CATCHMENT REF | AREA (Ha) | CALCULATION METHOD | FLOW RATE - 1:1 YEAR STORM EVENT | FLOW RATE - 1:30 YEAR STORM EVENT | FLOW RATE - 1:100 YEAR + 40% CC STORM EVENT |
|---|---|---|---|---|---|
| PA1 & PA2 (BUILDING) | 0.260 | 50% BROWNFIELD: BASED ON MODIFIED RATIONAL METHOD | 5.5 (50% OF 11) | 13 (50% OF 26) | 17 (50% OF 34) |
| PA3 (BUILIDNG) | 0.783 | GREENFIELD RUN-OFF | 5.1 | 5.1 | 5.1 |
| CATCHMENT PA1-3 TOTAL | 1.043 | LIMITED TO 30-YEAR STORM EVENT, AS AGREED WITH LLFA | 18.1 | 18.1 | 18.1 |
| CATCHMENT PA4 (DEMOLISHED BUILDING SLABS) | 0.175 | GREENFIELD RUN-OFF (INCREASED TO 5 l/s MIN FLOW TO AVOID BLOCKAGES) | 5.0 | 5.0 | 5.0 |
| CATCHMENT PB (WASHDOWN) | 0.120 | AS AGREED WITH UNITED UTILITIES (FOUL CONNECTION) | 5.0 | 5.0 | 5.0 |
| CATCHMENT PC (LOWR GROUND CP) | 0.332 | 50% BROWNFIELD OF THE EXISTING 1-YEAR STORM EVENT AREA EC (25%) | 7.0 | 7.0 | 7.0 |

| Rev: | Description: | Date: | By: | Chkd: |
|---|---|---|---|---|
| P01 | ISSUED FOR COMMENTS | 14.06.23 | AL | MW |


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Status: PRELIMINARY

Project: HAMMERSTONE ROAD

Drg Title: PROPOSED CATCHMENT PLAN

| Project No: | Size: | Date: | Drawn By: | Designed By: | Checked By: |
|---|---|---|---|---|---|
| 068065 | A1 | 14.06.23 | KS | ATL | MW |
| | Scale: 1:500 | | | | |

Project Code: HRD - Originator: CUR - Zone: XX - Level: 00 - Type: DR - Discipline: C - Category / Number: 92-622 - Rev: P01

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