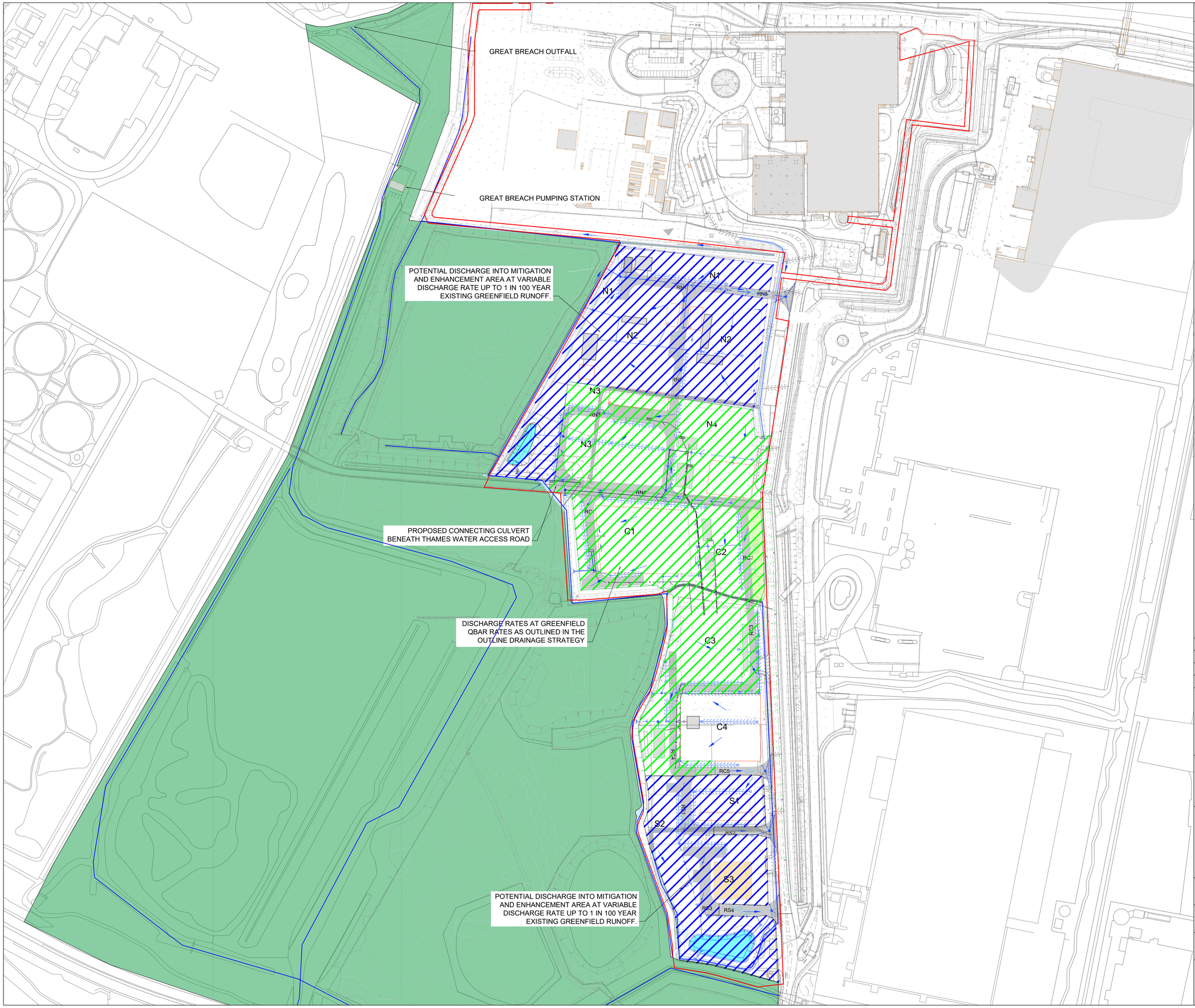


DO NOT SCALE

NOTES:

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2. MASTERPLAN INFORMATION SHOWN IS BASED ON THE CURRENT WSP DESIGN DATED JANUARY 2024.

KEY:

- POTENTIAL RAINWATER HARVESTING STORAGE
- PROPOSED MITIGATION AND ENHANCEMENT AREA
- PROPOSED SURFACE WATER CATCHMENT AREAS DRAINING TO WATERCOURSES AT VARIABLE RATES
- POTENTIAL SITE WHERE RAINWATER CAN BE COLLECTED
- WATERCOURSE NETWORK WITHIN THE MITIGATION AND ENHANCEMENT AREA
- INSTALLATION BOUNDARY

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DESCRIPTION: FIRST DRAFT ISSUE

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PROJECT TITLE:

CORY DECARBONISATION PROJECT

DRAWING TITLE:

FIGURE 4 - INDICATIVE DRAINAGE LAYOUT

DRAWING STATUS: FINAL

| DRAWN: | CHECKED: | APPROVED: | AUTHORISED: |
|---|---|---|---|
| DT | CL | CP | CP |

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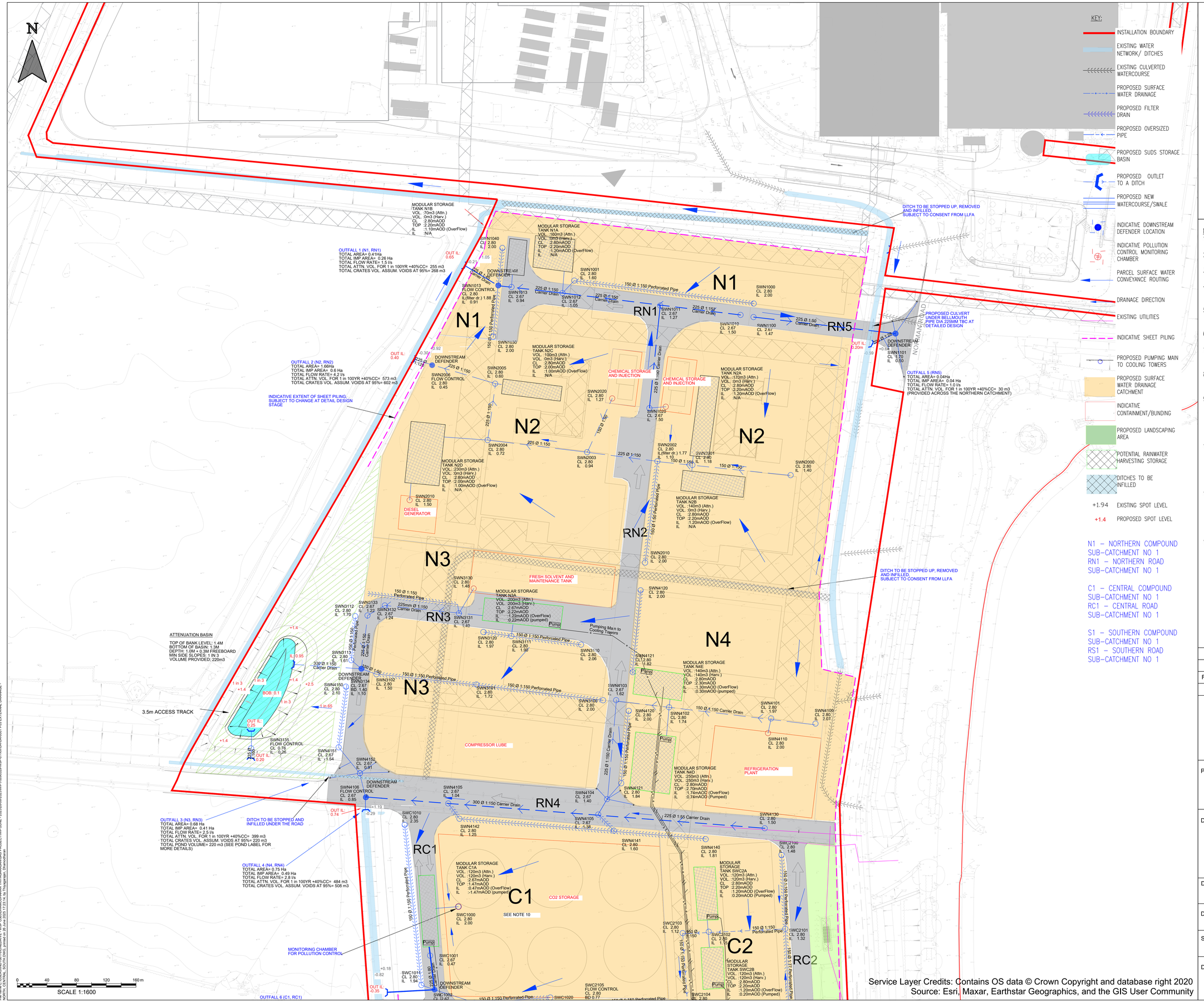
|---|---|---|
| 1:1000 | JUNE 2025 | P01 |

DRAWING NUMBER: WSP-01-ZZ-DR-EN-00010



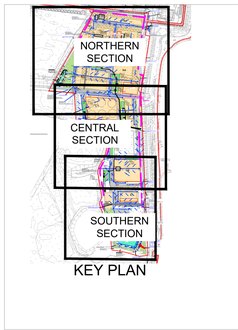

KEY:

- INSTALLATION BOUNDARY
- EXISTING WATER NETWORK/ DITCHES
- EXISTING CULVERTED WATERCOURSE
- PROPOSED SURFACE WATER DRAINAGE
- PROPOSED FILTER DRAIN
- PROPOSED OVERSIZED PIPE
- PROPOSED SUDS STORAGE BASIN
- PROPOSED OUTLET TO A DITCH
- PROPOSED NEW WATERCOURSE/SWALE
- INDICATIVE DOWNSTREAM DEFENDER LOCATION
- INDICATIVE POLLUTION CONTROL MONITORING CHAMBER
- PARCEL SURFACE WATER CONVEYANCE ROUTING
- DRAINAGE DIRECTION
- EXISTING UTILITIES
- INDICATIVE SHEET PILING
- PROPOSED PUMPING MAIN TO COOLING TOWERS
- PROPOSED SURFACE WATER DRAINAGE CATCHMENT
- INDICATIVE CONTAINMENT/BUNDING
- PROPOSED LANDSCAPING AREA
- POTENTIAL RAINWATER HARVESTING STORAGE
- DITCHES TO BE INFILLED
- +1.94 EXISTING SPOT LEVEL
- +1.4 PROPOSED SPOT LEVEL

N1 – NORTHERN COMPOUND SUB-CATCHMENT NO 1
RN1 – NORTHERN ROAD SUB-CATCHMENT NO 1

C1 – CENTRAL COMPOUND SUB-CATCHMENT NO 1
RC1 – CENTRAL ROAD SUB-CATCHMENT NO 1

S1 – SOUTHERN COMPOUND SUB-CATCHMENT NO 1
RS1 – SOUTHERN ROAD SUB-CATCHMENT NO 1

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3. EXISTING LEVELS SHOWN ARE BASED ON THE TOPOGRAPHICAL SURVEY UNDERTAKEN BY MALTBY LAND SURVEYS LTD IN DECEMBER 2023.
4. THE DRAINAGE STRATEGY IS INDICATIVE ONLY AND DETAILS SUCH AS DRAINAGE CONVEYANCE ROUTES, LEVELS, EXTENT AND SIZE OF SUDS FEATURES ETC ARE SUBJECT TO CHANGE DETAILED DESIGN STAGE.
5. ALL POINTS OF CONNECTION ARE SUBJECT TO APPROVAL FROM LLFA. FURTHER CONNECTIVITY ASSESSMENT OF THE EXISTING WATER NETWORK MAY BE REQUIRED.
6. THIS OUTLINE DRAINAGE STRATEGY IS BASED ON THE Qbar RUNOFF RATE, EQUAL to 3.71l/sec/ha.
7. QUICK STORAGE ESTIMATES WERE UNDERTAKEN USING LOCAL FEH 2013 RAINFALL DATA. STORAGE VOLUMES INDICATED FOR THE 1 IN 100YR PLUS 40% CLIMATE CHANGE ALLOWANCES.
8. EARTHWORK GRADINGS FOR SUDS FEATURES HAVE BEEN ASSUMED TO BE MAX. 1 IN 3 SLOPES IN ACCORDANCE WITH GUIDANCE SET OUT IN THE SUDS MANUAL (C753).
9. ALL MODULAR TANKS ASSUMED TO BE 1M DEEP AND HAVE MINIMUM 600MM COVER, SUBJECT TO FURTHER DETAILED DESIGN, FINISHED GROUND LEVELS AND INVERT LEVELS AT DISCHARGE LOCATIONS. PROTECTION MEASURES MAY BE REQUIRED TO PREVENT THE LOAD BEING TRANSMITTED TO THE TANK FROM THE VEHICLES, WHERE MINIMUM ADEQUATE COVER CANNOT BE ACHIEVED.
10. POTENTIAL STORAGE AT SURFACE WITHIN THIS BUNDED CO2 STORAGE AREA. MAXIMUM OF 200m3 TO BE ACCOMODATED ACROSS APPROX. 2,000m2 WITH A BUND WALL MINIMUM 0.15m HIGH. CO2 STORAGE TANKS AND ASSOCIATED EQUIPMENT WILL BE PLACED ON STILTS AND WATERPROOFING WILL BE CONSIDERED IN THE DESIGN, WHERE REQUIRED
11. SURFACE WATER FROM THE COOLING TOWERS AREA WILL BE HARVESTED AND REUSED IN THE COOLING PROCESSES. LOW WALL IS PROPOSED TO PERIMETER OF THE COLLING TOWERS AREA WITH A BASIN PROPOSED UNDERNEATH FOR STORAGE OF COOLING WATER (HYBRID COOLING SYSTEM). IN NORMAL CONDITIONS RAINFALL WILL BE CAPTURED AND DIRECTED INTO THE COOLING SYSTEM BASIN.
12. C3 AREA FORMALLY NOT INCLUDED IN THE DRAINAGE CATCHMENT PLAN, BUT CONNECTED TO UNABLE EMERGENCY OVERFLOW FROM THE COOLING SYSTEM BASIN.

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PROJECT TITLE:

CORY DECARBONISATION PROJECT

DRAWING TITLE:

FIGURE 4 - INDICATIVE DRAINAGE LAYOUT - NORTH

DRAWING STATUS

FINAL

| DRAWN: | CHECKED: | APPROVED: | AUTHORISED: |
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| DT | CL | VM | VM |

| SCALE @ A0 SIZE: | DATE: | REVISION: |
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| 1:400 | JUNE 2025 | P01 |

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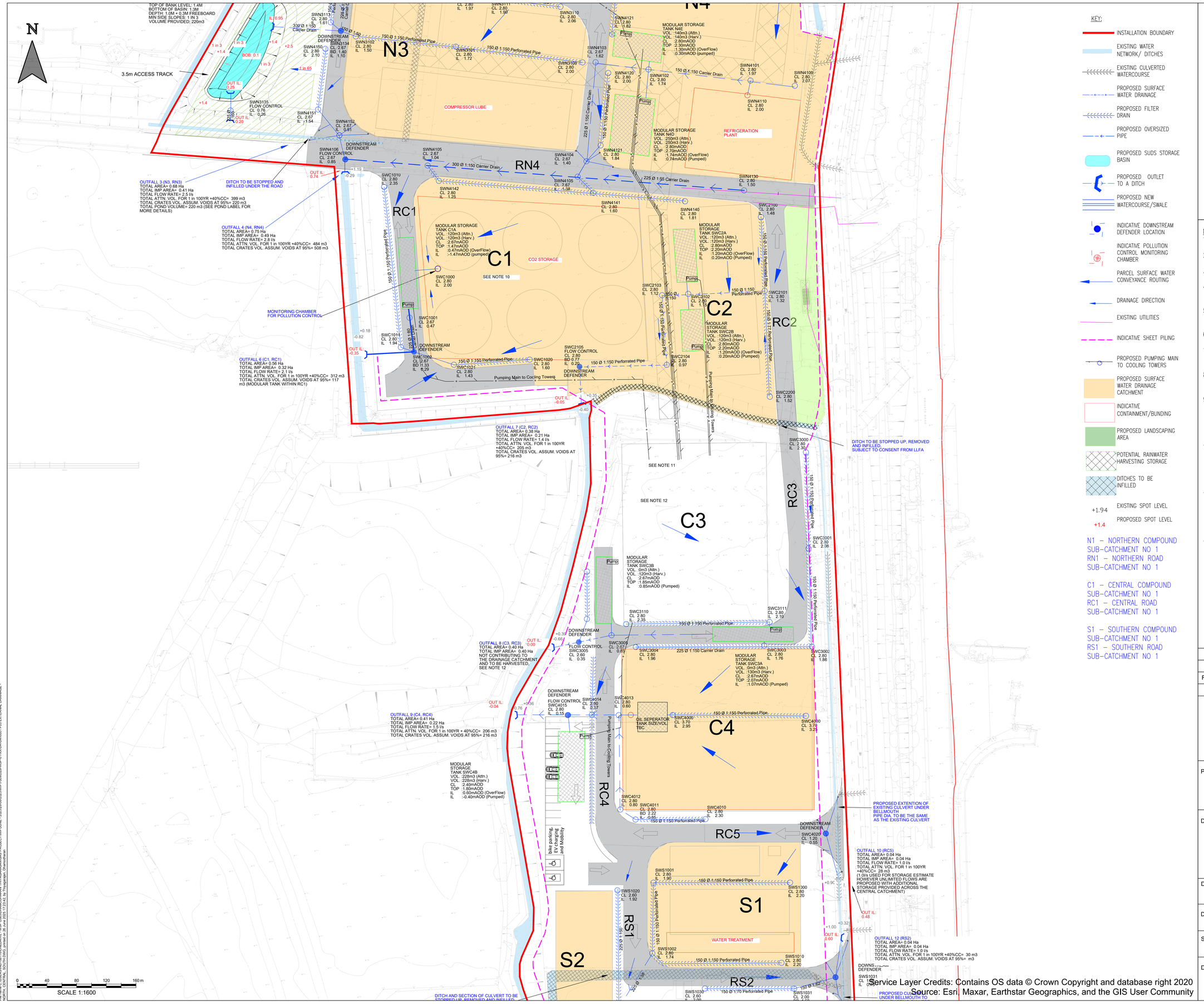


KEY:

- INSTALLATION BOUNDARY
- EXISTING WATER NETWORK/ DITCHES
- EXISTING CULVERTED WATERCOURSE
- PROPOSED SURFACE WATER DRAINAGE
- PROPOSED FILTER DRAIN
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- PROPOSED SUDS STORAGE BASIN
- PROPOSED OUTLET TO A DITCH
- PROPOSED NEW WATERCOURSE/SWALE
- INDICATIVE DOWNSTREAM DEFENDER LOCATION
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- PARCEL SURFACE WATER CONVEYANCE ROUTING
- DRAINAGE DIRECTION
- EXISTING UTILITIES
- INDICATIVE SHEET PILING
- PROPOSED PUMPING MAIN TO COOLING TOWERS
- PROPOSED SURFACE WATER DRAINAGE CATCHMENT
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- POTENTIAL RAINWATER HARVESTING STORAGE
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N1 – NORTHERN COMPOUND
SUB-CATCHMENT NO 1
RN1 – NORTHERN ROAD
SUB-CATCHMENT NO 1

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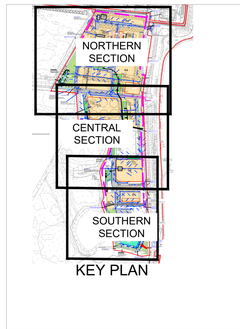
SUB-CATCHMENT NO 1
RC1 – CENTRAL ROAD
SUB-CATCHMENT NO 1

S1 – SOUTHERN COMPOUND
SUB-CATCHMENT NO 1
RS1 – SOUTHERN ROAD
SUB-CATCHMENT NO 1

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PROJECT TITLE:

CORY DECARBONISATION PROJECT

DRAWING TITLE:

FIGURE 4 - INDICATIVE DRAINAGE LAYOUT - CENTRAL

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| FINAL | | | |
| DRAWN: DT | CHECKED: CL | APPROVED: VM | AUTHORISED: VM |
| SCALE @ A0 SIZE: 1:400 | | DATE: JUNE 2025 | REVISION: P01 |

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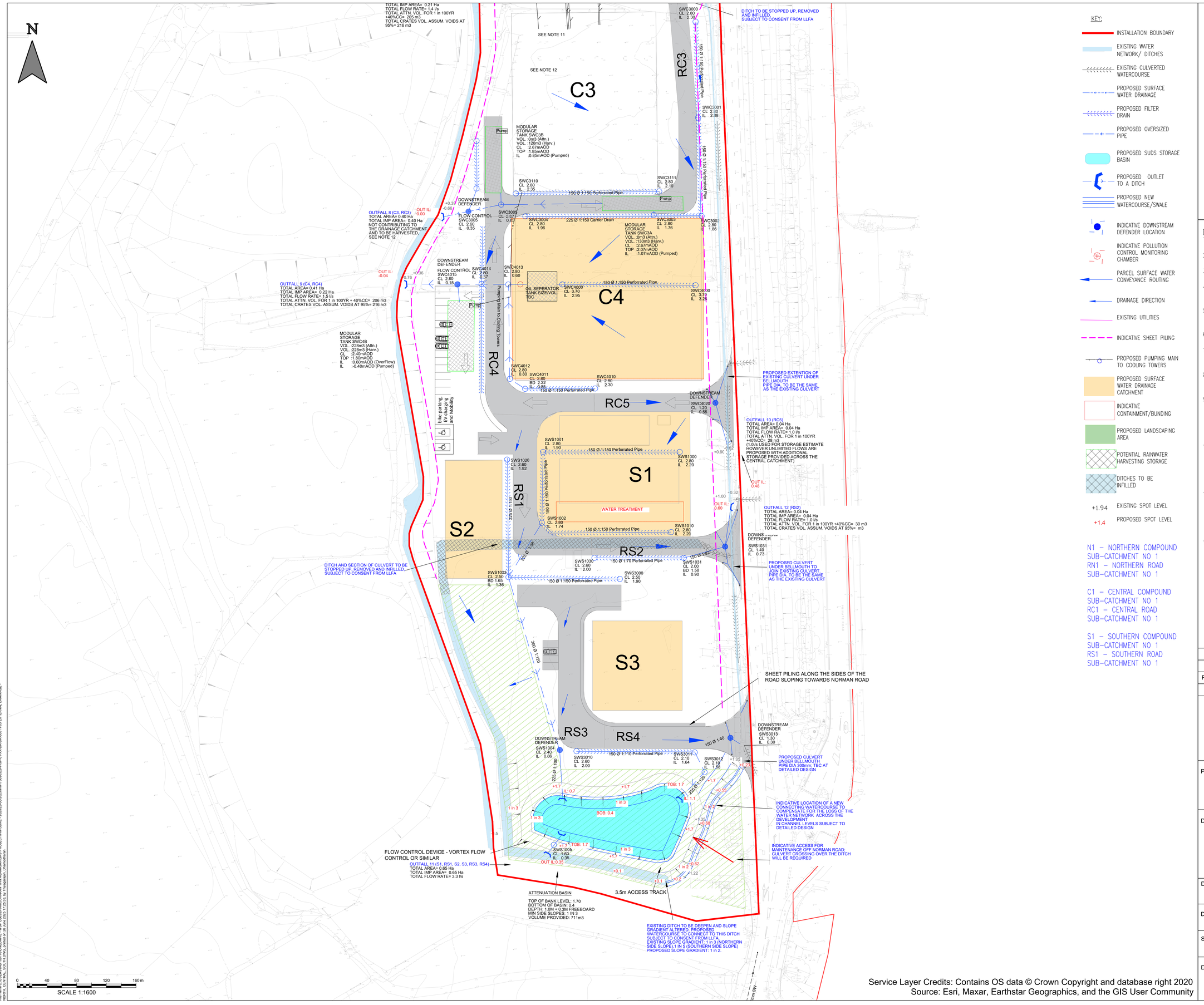


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RC1 – CENTRAL ROAD
SUB-CATCHMENT NO 1

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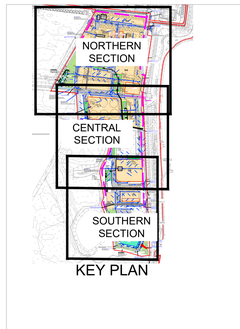
SUB-CATCHMENT NO 1
RS1 – SOUTHERN ROAD
SUB-CATCHMENT NO 1

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PROJECT TITLE:
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DRAWING TITLE:
FIGURE 4 - INDICATIVE DRAINAGE LAYOUT - SOUTH

DRAWING STATUS: FINAL

| DRAWN: | CHECKED: | APPROVED: | AUTHORISED: |
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| DT | CL | VM | VM |

| SCALE @ A0 SIZE: | DATE: | REVISION: |
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| 1:400 | JUNE 2025 | P01 |

DRAWING NUMBER: WSP-01-ZZ-DR-EN-00010

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