

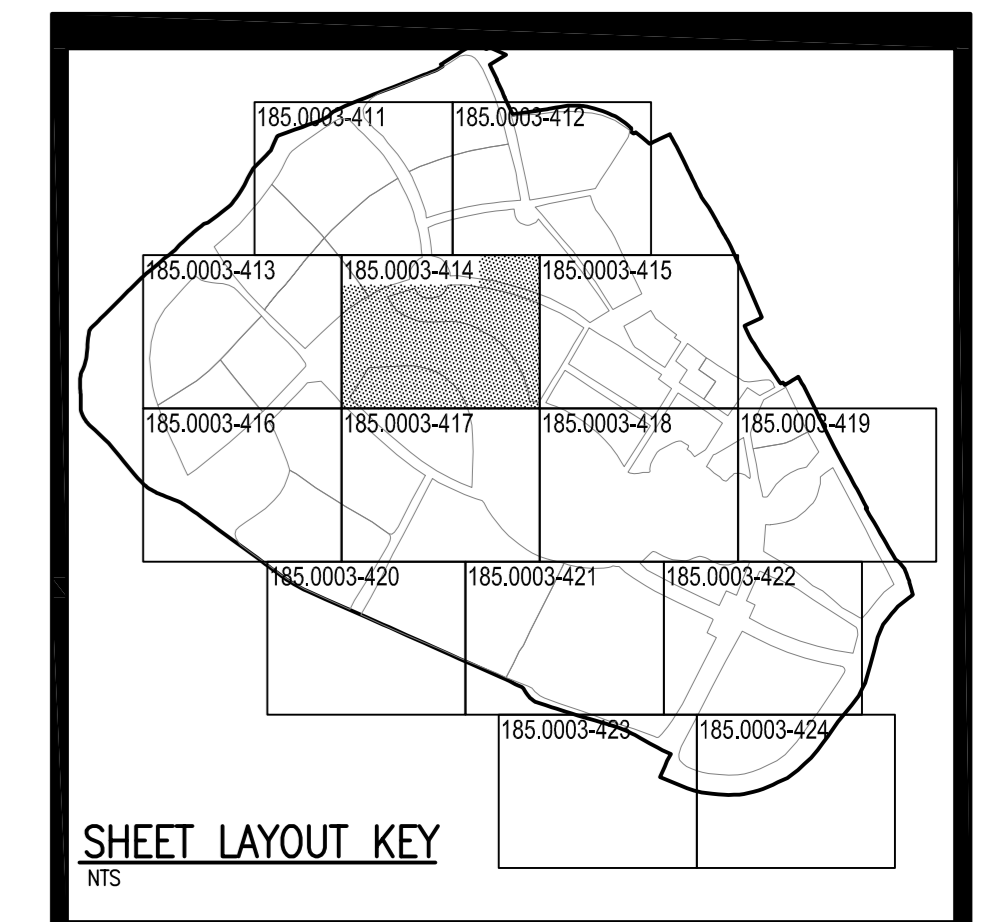
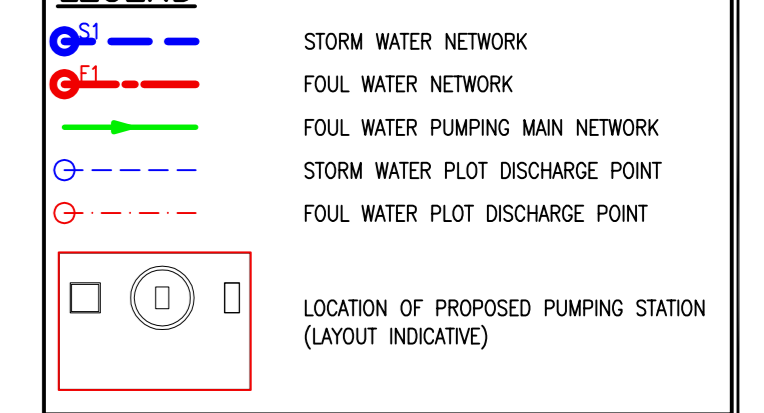
**NOTES**

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERING AND ARCHITECTURAL DRAWINGS, DETAILS AND SPECIFICATIONS.
- ANY DISCREPANCIES ON THIS DRAWING ARE TO BE REPORTED IMMEDIATELY TO THE DESIGN ENGINEER FOR CLARIFICATION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY WORKS AND FOR THE STABILITY OF THE WORKS IN PROGRESS.
- ALL EXISTING DRAINAGE AFFECTED BY PROPOSED WORK MUST BE CONFIRMED ON SITE PRIOR TO WORKS COMMENCING.
- ALL ADAPTABLE FOUL AND SURFACE WATER DRAINAGE MUST BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR SCOTLAND SECOND EDITION.
- ALL SEWER PIPE AND MANHOLES TO BE CLEANED AND TESTED FOR WATER TIGHTNESS ON COMPLETION OF CONSTRUCTION.
- ALL DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF BUILDING REGULATIONS AND IN CONJUNCTION WITH ALL RELEVANT BRITISH STANDARDS, CODES OF PRACTICE AND 'SEWERS FOR SCOTLAND SECOND EDITION'.
- ALL DRAINAGE SHALL COMPLY WITH THE UPTON MCGOUGAN PHYSICAL DETAILS DRAWINGS AND THE REQUIREMENTS OF BS EN 752:2008.
- INVERT LEVELS AND POSITIONS OF EXISTING DRAIN/CHAMBERS/SEWERS WHERE NEW CONNECTIONS ARE TO BE MADE MUST BE CHECKED AND CONFIRMED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORKS.
- ANY PART OF THE EXISTING DRAINAGE SYSTEM TO BE RETAINED AS PART OF THE NEW SCHEME SHALL BE CLEANED AND REPAIRED, ANY STRUCTURAL DEFECTS SHALL BE REPAIRED USING APPROPRIATE AND APPROVED MEANS.
- ALL EXISTING DRAINS WHICH ARE NOT INCORPORATED IN THE NEW DESIGN AND WHICH ARE NOT REQUIRED TO BE DEMOLISHED DURING CONSTRUCTION OF THE NEW WORKS, SHALL BE FILLED BY PACKING A 10:1 MIX BY WEIGHT OF PLASTERED FINE ASH TO CEMENTARY PORTLAND CEMENT WITH SUPERFINE WATER AGGREGATE TO GIVE A DRYING CONSISTENCY AND ENSURE OPTIMUM COMPACTION. CARE SHALL BE TAKEN TO DRAIN OFF ANY EXCESS WATER AFTER THE MIX HAS BEEN PLACED. THE SURFACE SHALL BE TRANSFERRED BY A SUITABLE CHUTE TO THE DRAIN THROUGH A 25mm MESH SCREEN TO PREVENT BLOCKAGE.
- ALL IN-SITU CONCRETE TO BE GRADE C20 USING SULPHATE RESISTING CEMENT UNLESS SPECIFIED OTHERWISE.

**DESIGN ASSUMPTIONS**

- ALL INDICATED FINISHED MANHOLE COVER LEVELS HAVE BEEN TAKEN FROM GNS ASSOCIATES RESTORATION LEVELS DRAWING DATED 04.10.2010.
- DISCHARGE RATES FOR STORM AND FOUL WATER FROM EACH DESIGNATED PLOT HAVE BEEN CALCULATED BASED ON DEVELOPMENT NUMBERS AND AREAS GIVEN IN TABLE A.2 OF THE MASTER PLAN STRATHGIRN DISTRICT COUNCIL SITE INSPECTION - SEPTEMBER 2008 PRODUCED BY GNS ASSOCIATES ON BEHALF OF BAE SYSTEMS. ANY VARIATION ON THE NUMBER CHECKS MAY REQUIRE A REVISION OF THE NETWORK.
- THE DESIGN IS BASED UPON THE AGREEMENT WITH SCOTTON WATER THAT A MAXIMUM OF 1250L/S WILL DISCHARGE THROUGH THE NORTHERN PUMPING STATION (PS01) FROM THE SITE, WITH THE REMAINDER DISCHARGING TO THE SOUTHERN PUMPING STATION (PS02). ANY VARIATION TO THIS DESIGN PRINCIPLE WILL REQUIRE REVISION WITH SCOTTON WATER.
- CONTAMINATED LAND IS KNOWN TO BE PRESENT WITHIN THE SITE. AT RELATIVELY HIGH LEVELS WITHIN THE EXISTING STRATA, DRAINAGE RUNS HAVE BEEN DESIGNED WITH THIS IN MIND.
- FIRST STAGE SUDS TREATMENT FOR BOTH THE SOUTHERN AND NORTHERN ACCESS ROADS WILL BE PROVIDED BY OTHERS.

**LEGEND**



STORM NETWORK 1 DESIGN UPDATED TO SUIT SPECIFIC 5  
 INFRASTRUCTURE AREAS, 'GNS ASSOCIATES' UPDATED LAYOUT A JPC 21.06.11  
 CONCEPT DESIGN ISSUE 0 JPC 18.04.11

Revision	Staff	App	Date

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Project  
**PROPOSED REDEVELOPMENT  
 RO BISHOPTON**

Drawing Title  
**DRAINAGE LAYOUT  
 SHEET 4 OF 14**

Drawn	Date	Checked	Date
GW	APRIL 2011		

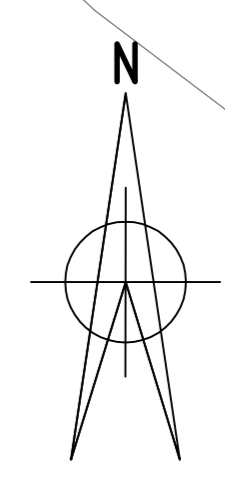
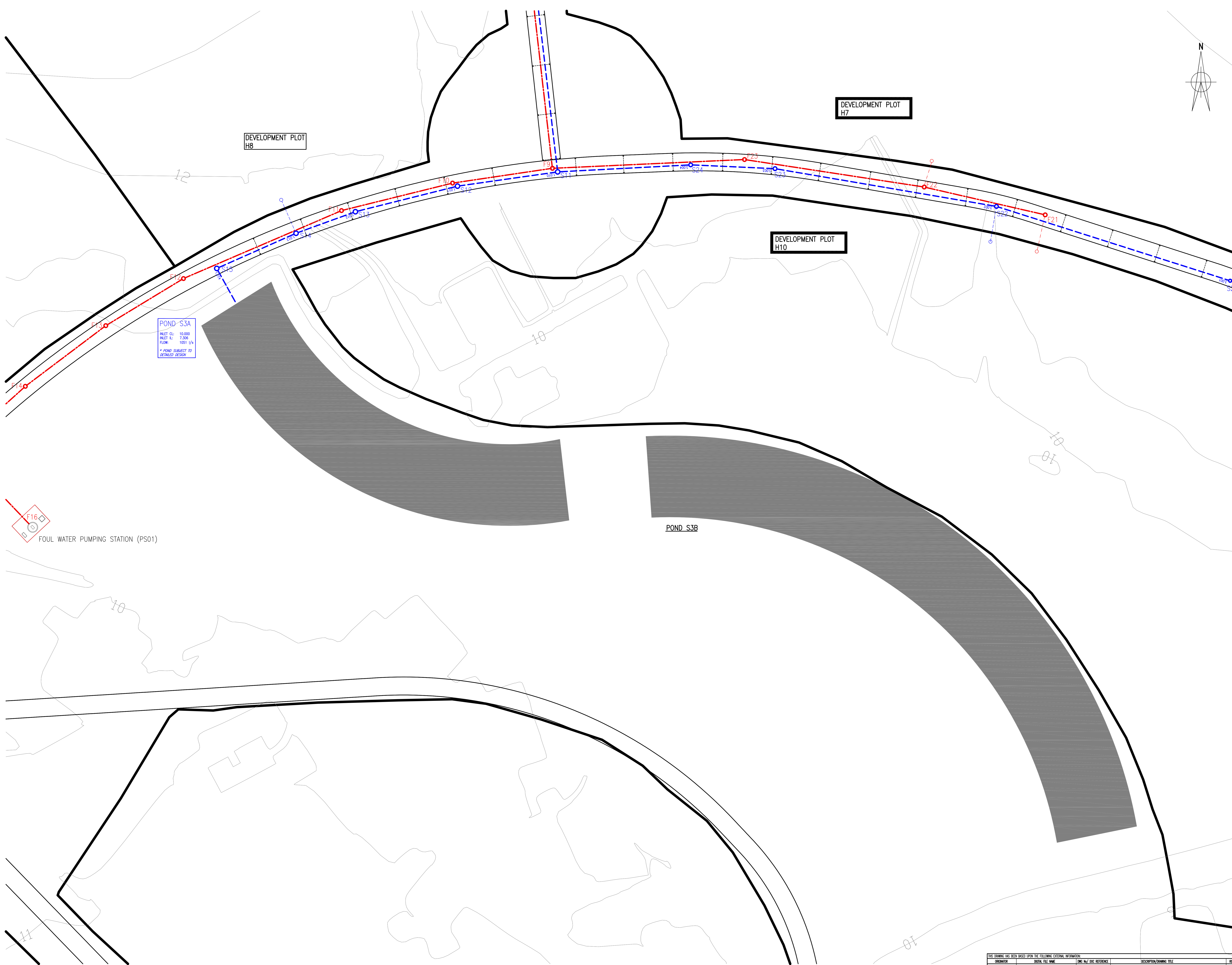
Scale  
 1:500 (AT AD SIZE)

Drawing Number  
**185.0003-414**

Rev  
 A

THIS DRAWING HAS BEEN BASED UPON THE FOLLOWING EXISTING INFORMATION:

CONTRIBUTOR	DETAIL FILE NAME	TYPE	NO. / DATE REFERENCE	DESCRIPTION/CONTINGENT TITLE	REV.	DATE RECEIVED
GNS ASSOCIATES	715-WP-01 MASTERPLAN (REV.04)	715-WP-01	-	COORDINATED MASTERPLAN INFORMATION	-	26.05.10
GNS ASSOCIATES	905-P-22 PROPOSED RESTORATION LEVELS.dwg	905-P-22	-	PROPOSED RESTORATION LEVELS (CONTOURS AT PONES REMOVED FOR UPTON MCGOUGAN DESIGN)	-	24.05.10
JMP	SEWERS PLANING	-	-	NORTHERN ACCESS ROAD DESIGN INFORMATION	-	10.06.11
JMP	SECTIONING	-	-	NORTHERN ACCESS ROAD DESIGN INFORMATION	-	10.06.11



**POND S3A**  
 INLET CL: 10.000  
 INLET IL: 7.300  
 FLOW: 1051 l/s  
 \* POND SUBJECT TO  
 REPAIRED 20/09/11

**POND S3B**

**FOUL WATER PUMPING STATION (PS01)**

**DEVELOPMENT PLOT  
 H6**

**DEVELOPMENT PLOT  
 H7**

**DEVELOPMENT PLOT  
 H10**