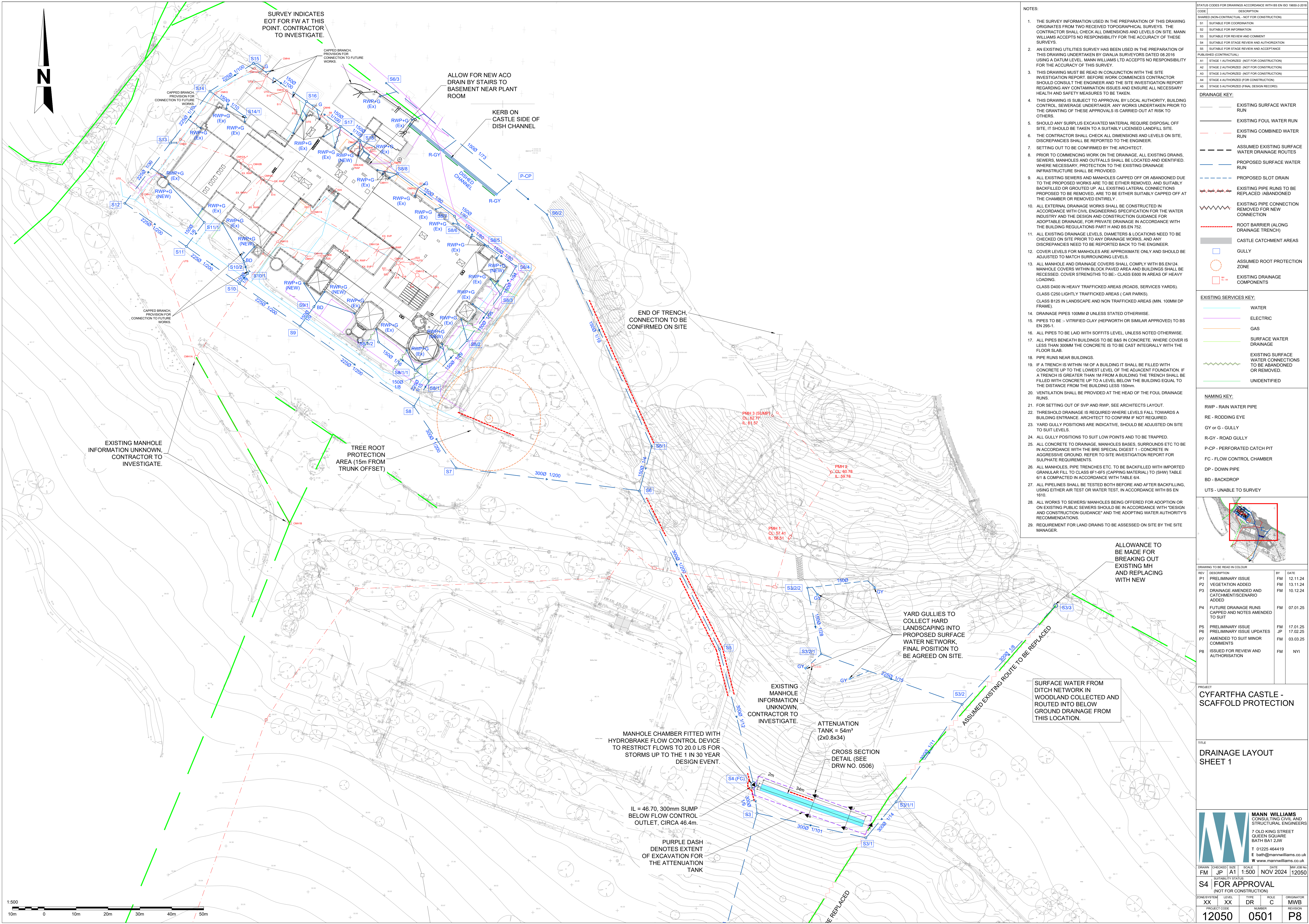




NOTES:

- THE SURVEY INFORMATION USED IN THE PREPARATION OF THIS DRAWING ORIGINATES FROM TWO RECEIVED TOPOGRAPHICAL SURVEYS. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND LEVELS ON SITE. MANN WILLIAMS ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF THESE SURVEYS.
- AN EXISTING UTILITIES SURVEY HAS BEEN USED IN THE PREPARATION OF THIS DRAWING UNDERTAKEN BY GWALIA SURVEYORS DATED 08.2016 USING A DATUM LEVEL. MANN WILLIAMS LTD ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF THIS SURVEY.
- THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE SITE INVESTIGATION REPORT. BEFORE WORK COMMENCES CONTRACTOR SHOULD CONSULT THE ENGINEER AND THE SITE INVESTIGATION REPORT REGARDING ANY CONTAMINATION ISSUES AND ENSURE ALL NECESSARY HEALTH AND SAFETY MEASURES TO BE TAKEN.
- THIS DRAWING IS SUBJECT TO APPROVAL BY LOCAL AUTHORITY, BUILDING CONTROL, SEWERAGE UNDERTAKER. ANY WORKS UNDERTAKEN PRIOR TO THE GRANTING OF THESE APPROVALS IS CARRIED OUT AT RISK TO OTHERS.
- SHOULD ANY SURPLUS EXCAVATED MATERIAL REQUIRE DISPOSAL OFF SITE, IT SHOULD BE TAKEN TO A SUITABLY LICENSED LANDFILL SITE.
- THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND LEVELS ON SITE. DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
- SETTING OUT TO BE CONFIRMED BY THE ARCHITECT.
- PRIOR TO COMMENCING WORK ON THE DRAINAGE, ALL EXISTING DRAINS, SEWERS, MANHOLES AND OUTFALLS SHALL BE LOCATED AND IDENTIFIED. WHERE NECESSARY, PROTECTION TO THE EXISTING DRAINAGE INFRASTRUCTURE SHALL BE PROVIDED.
- ALL EXISTING SEWERS AND MANHOLES CAPPED OFF OR ABANDONED DUE TO THE PROPOSED WORKS ARE TO BE EITHER REMOVED AND SUITABLY BACKFILLED OR GROUDED UP. ALL EXISTING LATERAL CONNECTIONS PROPOSED TO BE REMOVED, ARE TO BE EITHER SUITABLY CAPPED OFF AT THE CHAMBER OR REMOVED ENTIRELY.
- ALL EXTERNAL DRAINAGE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY AND THE DESIGN AND CONSTRUCTION GUIDANCE FOR ADAPTABLE DRAINAGE, FOR PRIVATE DRAINAGE IN ACCORDANCE WITH THE BUILDING REGULATIONS PART H AND BS EN 752.
- ALL EXISTING DRAINAGE LEVELS, DIAMETERS & LOCATIONS NEED TO BE CHECKED ON SITE PRIOR TO ANY DRAINAGE WORKS, AND ANY DISCREPANCIES NEED TO BE REPORTED BACK TO THE ENGINEER.
- COVER LEVELS FOR MANHOLES ARE APPROXIMATE ONLY AND SHOULD BE ADJUSTED TO MATCH SURROUNDING LEVELS.
- ALL MANHOLE AND DRAINAGE COVERS SHALL COMPLY WITH BS EN124. MANHOLE COVERS WITHIN BLOCK PAVED AREA AND BUILDINGS SHALL BE RECESSED. COVER STRENGTHS TO BE:- CLASS E60 IN AREAS OF HEAVY LOADING.
CLASS D400 IN HEAVY TRAFFICKED AREAS (ROADS, SERVICES YARDS).
CLASS C250 LIGHTLY TRAFFICKED AREAS (CAR PARKS).
CLASS B125 IN LANDSCAPE AND NON TRAFFICKED AREAS (MIN. 100MM DP FRAME).
- DRAINAGE PIPES 100MM Ø UNLESS STATED OTHERWISE.
- PIPES TO BE - VITRIFIED CLAY (HEPWORTH OR SIMILAR APPROVED) TO BS EN 350-1.
- ALL PIPES TO BE LAID WITH SOFFITS LEVEL, UNLESS NOTED OTHERWISE.
- ALL PIPES BENEATH BUILDINGS TO BE B4S IN CONCRETE. WHERE COVER IS LESS THAN 300MM THE CONCRETE IS TO BE CAST INTEGRALLY WITH THE FLOOR SLAB.
- PIPE RUNS NEAR BUILDINGS.
- IF A TRENCH IS WITHIN 1M OF A BUILDING IT SHALL BE FILLED WITH CONCRETE UP TO THE LOWEST LEVEL OF THE ADJACENT FOUNDATION. IF A TRENCH IS GREATER THAN 1M FROM A BUILDING THE TRENCH SHALL BE FILLED WITH CONCRETE UP TO A LEVEL BELOW THE BUILDING EQUAL TO THE DISTANCE FROM THE BUILDING LESS 150mm.
- VENTILATION SHALL BE PROVIDED AT THE HEAD OF THE FOUL DRAINAGE RUNS.
- FOR SETTING OUT OF SVP AND RWP - SEE ARCHITECTS LAYOUT.
- THRESHOLD DRAINAGE IS REQUIRED WHERE LEVELS FALL TOWARDS A BUILDING ENTRANCE. ARCHITECT TO CONFIRM IF NOT REQUIRED.
- YARD GULLY POSITIONS ARE INDICATIVE, SHOULD BE ADJUSTED ON SITE TO SUIT LEVELS.
- ALL GULLY POSITIONS TO SUIT LOW POINTS AND TO BE TRAPPED.
- ALL CONCRETE TO DRAINAGE, MANHOLES BASES, SURROUNDS ETC TO BE IN ACCORDANCE WITH THE BRE SPECIAL DIGEST 1 - CONCRETE IN AGGRESSIVE GROUND. REFER TO SITE INVESTIGATION REPORT FOR SULPHATE REQUIREMENTS.
- ALL MANHOLES, PIPE TRENCHES ETC. TO BE BACKFILLED WITH IMPORTED GRANULAR FILL TO CLASS 6F1-6FS (CAPPING MATERIAL) TO (SHW) TABLE 611 & COMPACTED IN ACCORDANCE WITH TABLE 614.
- ALL PIPELINES SHALL BE TESTED BOTH BEFORE AND AFTER BACKFILLING, USING EITHER AIR TEST OR WATER TEST, IN ACCORDANCE WITH BS EN 1610.
- ALL WORKS TO SEWERS/ MANHOLES BEING OFFERED FOR ADOPTION OR ON EXISTING PUBLIC SEWERS SHOULD BE IN ACCORDANCE WITH 'DESIGN AND CONSTRUCTION GUIDANCE' AND THE ADOPTING WATER AUTHORITY'S RECOMMENDATIONS.
- REQUIREMENT FOR LAND DRAINS TO BE ASSESSED ON SITE BY THE SITE MANAGER.

DRAINAGE KEY:

- EXISTING SURFACE WATER RUN
- EXISTING FOUL WATER RUN
- EXISTING COMBINED WATER RUN
- ASSUMED EXISTING SURFACE WATER DRAINAGE ROUTES
- PROPOSED SURFACE WATER RUN
- PROPOSED SLOT DRAIN
- EXISTING PIPE RUNS TO BE REPLACED /ABANDONED
- EXISTING PIPE CONNECTION REMOVED FOR NEW CONNECTION
- ROOT BARRIER (ALONG DRAINAGE TRENCH)
- CASTLE CATCHMENT AREAS
- GULLY
- ASSUMED ROOT PROTECTION ZONE
- EXISTING DRAINAGE COMPONENTS

EXISTING SERVICES KEY:

- WATER
- ELECTRIC
- GAS
- SURFACE WATER DRAINAGE
- EXISTING SURFACE WATER CONNECTIONS TO BE ABANDONED OR REMOVED
- UNIDENTIFIED

NAMING KEY:

- RWP - RAIN WATER PIPE
- RE - RODDING EYE
- GY or G - GULLY
- R-GY - ROAD GULLY
- P-CP - PERFORATED CATCH PIT
- FC - FLOW CONTROL CHAMBER
- DP - DOWN PIPE
- BD - BACKDROP
- UTS - UNABLE TO SURVEY

DRAWING TO BE READ IN COLOUR			
REV	DESCRIPTION	BY	DATE
P1	PRELIMINARY ISSUE	FM	12.11.24
P2	VEGETATION ADDED	FM	13.11.24
P3	DRAINAGE AMENDED AND CATCHMENT/SCENARIO ADDED	FM	10.12.24
P4	FUTURE DRAINAGE RUNS CAPPED AND NOTES AMENDED TO SUIT	FM	07.01.25
P5	PRELIMINARY ISSUE	FM	17.01.25
P6	PRELIMINARY ISSUE UPDATES	JP	17.02.25
P7	AMENDED TO SUIT MINOR COMMENTS	FM	03.03.25
P8	ISSUED FOR REVIEW AND AUTHORISATION	FM	NY1

PROJECT
CYFARTFHA CASTLE - SCAFFOLD PROTECTION

TITLE
DRAINAGE LAYOUT SHEET 1

MANN WILLIAMS
CONSULTING CIVIL AND
STRUCTURAL ENGINEERS
7 OLD KING STREET
QUEEN SQUARE
BATH BA1 2JW
T 01225 464419
E bath@mannwilliams.co.uk
W www.mannwilliams.co.uk

DRAWN	CHECKED	SIZE	SCALE	DATE	MW JOB NO
FM	JP	A1	1:500	NOV 2024	12050

S4 FOR APPROVAL (NOT FOR CONSTRUCTION)			
ZONE/SYSTEM	LEVL	TYPE	ORIGINATOR
XX	XX	DR	C
PROJECT CODE		NUMBER	REVISION
12050		0501	P8