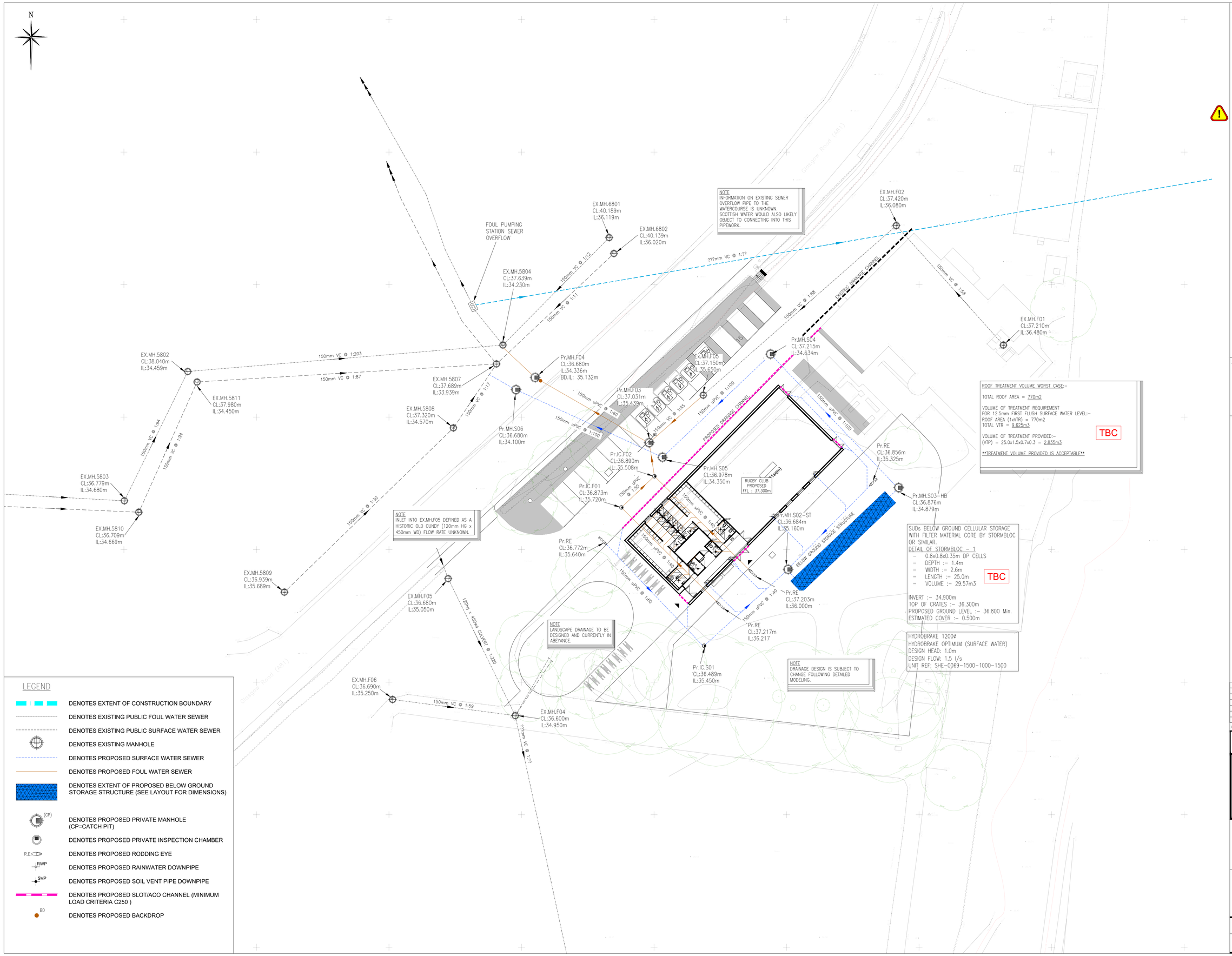

NOTE
INFORMATION ON EXISTING SEWER OVERFLOW PIPE TO THE WATERCOURSE IS UNKNOWN. SCOTTISH WATER WOULD ALSO LIKELY OBJECT TO CONNECTING INTO THIS PIPEWORK.

NOTE
INLET INTO EX.MH.F05 DEFINED AS A HISTORIC OLD CUNDY (120mm HG x 450mm WD) FLOW RATE UNKNOWN.

NOTE
LANDSCAPE DRAINAGE TO BE DESIGNED AND CURRENTLY IN ABEYANCE.

NOTE
DRAINAGE DESIGN IS SUBJECT TO CHANGE FOLLOWING DETAILED MODELING.

ROOF TREATMENT VOLUME WORST CASE:-

TOTAL ROOF AREA = 770m2

VOLUME OF TREATMENT REQUIREMENT
FOR 12.5mm FIRST FLUSH SURFACE WATER LEVEL:-
ROOF AREA (1xVTR) = 770m2
TOTAL VTR = 9.625m3

VOLUME OF TREATMENT PROVIDED:-
(VTP) = 25.0x1.5x0.7x0.3 = 2.835m3

TREATMENT VOLUME PROVIDED IS ACCEPTABLE

TBC

SUDs BELOW GROUND CELLULAR STORAGE WITH FILTER MATERIAL CORE BY STORMBLOC OR SIMILAR.
DETAIL OF STORMBLOC – 1
- 0.8x0.8x0.35m DP CELLS
- DEPTH :- 1.4m
- WIDTH :- 2.6m
- LENGTH :- 25.0m
- VOLUME :- 29.57m3

TBC

INVERT :- 34.900m
TOP OF CRATES :- 36.300m
PROPOSED GROUND LEVEL :- 36.800 Min.
ESTIMATED COVER :- 0.500m

HYDROBRAKE 1200ø
HYDROBRAKE OPTIMUM (SURFACE WATER)
DESIGN HEAD: 1.0m
DESIGN FLOW: 1.5 l/s
UNIT REF: SHE-0069-1500-1000-1500

LEGEND

- DENOTES EXTENT OF CONSTRUCTION BOUNDARY
- DENOTES EXISTING PUBLIC FOUL WATER SEWER
- DENOTES EXISTING PUBLIC SURFACE WATER SEWER
- DENOTES EXISTING MANHOLE
- DENOTES PROPOSED SURFACE WATER SEWER
- DENOTES PROPOSED FOUL WATER SEWER
- DENOTES EXTENT OF PROPOSED BELOW GROUND STORAGE STRUCTURE (SEE LAYOUT FOR DIMENSIONS)
- (CP) DENOTES PROPOSED PRIVATE MANHOLE (CP=CATCH PIT)
- DENOTES PROPOSED PRIVATE INSPECTION CHAMBER
- R.E. DENOTES PROPOSED RODDING EYE
- RWP DENOTES PROPOSED RAINWATER DOWNPIPE
- SVP DENOTES PROPOSED SOIL VENT PIPE DOWNPIPE
- DENOTES PROPOSED SLOT/ACO CHANNEL (MINIMUM LOAD CRITERIA C250)
- BD DENOTES PROPOSED BACKDROP

NOTES:
THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECT AND ENGINEER DRAWINGS AND SPECIFICATION NOTES.

1. DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE. DO NOT SCALE FROM THIS DRAWING. FIGURED DIMENSIONS ONLY TO BE USED. HARLEY HADDOW DRAWINGS ARE FOR STRUCTURAL INFORMATION ONLY. FOR ALL SETTING OUT DIMENSIONS AND DETAILS REFER TO ARCHITECTS DRAWINGS.
2. THIS DRAWING IS BASED ON TOPOGRAPHICAL SURVEY DRAWINGS RECEIVED FROM ARDMORE POINT DURING MAY 2023.
3. ALL DRAINAGE SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY (CESWI) 8TH EDITION, SEWERS FOR SCOTLAND (SFS) 4TH EDITION AND DESIGN SPECIFICATION.
4. ALL EXISTING DRAINAGE SERVICES ARE BASED ON CCTV SURVEY AND SCOTTISH WATER GIS.
5. THE EXACT LOCATION AND DEPTH OF ALL UTILITIES SHOULD BE DETERMINED ON SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION PHASE.
6. LOCATION AND DEPTH OF EXISTING FOUL AND SURFACE WATER INFRASTRUCTURE IS BASED ON CCTV SURVEY AND SCOTTISH WATER GIS.
7. A LIMITING DISCHARGE OF xxL/S HAS BEEN CONFIRMED BY SCOTTISH WATER DEVELOPMENT OPERATIONS ON xx 20xx FOR THE PROPOSED BUILDING DEVELOPMENT SURFACE WATER DRAINAGE. THE PROPOSED FOUL DISCHARGE TO THE EXISTING COMBINED SEWER HAS BEEN AGREED WITH SCOTTISH WATER DEVELOPMENT OPERATIONS.
8. SCOTTISH WATER PRE-DEVELOPMENT REFERENCE NUMBER IS DSCAS-xxxxxx-xxx
9. ALL PIPE JUNCTIONS TO BE LONG RADIUS 90° SWEPT BENDS OR 45° BRANCHES.
10. MAINTENANCE REQUIREMENTS FOR SUDS COMPONENTS ARE PRESENTED FOR INDICATIVE PURPOSES BASED ON CIRIA C753 / HYDRO INTERNATIONAL RECOMMENDATIONS. MAINTENANCE REQUIREMENTS TO BE FINALISED FOLLOWING THE CONSTRUCTION PHASE FOR INCLUSION IN THE HEALTH AND SAFETY FILE.
11. ALL NEW DRAINAGE INFRASTRUCTURE SHALL BE MAINTAINED BY THE CLIENT OR A PRIVATE FACTOR.
12. ALL GRANULAR FILL AND BEDDING MATERIALS SHALL BE RECYCLED MATERIALS IN COMPLIANCE WITH CESWI AND SFS SPECIFICATION. RECYCLED MATERIALS SHALL BE PROCURED FROM SUPPLIERS WITHIN A 100 MILE RADIUS OF THE PROPOSED DEVELOPMENT.

UNDER THE CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2015, HARLEY HADDOW ARE NOT ACTING AS THE PRINCIPLE DESIGNER, BUT HAVE DUTIES AS A DESIGNER. THE DESIGN PROPOSED DOES NOT HAVE ANY SPECIFIC RISKS THAT A COMPETENT CONTRACTOR WOULD NOT HAVE ALREADY COGNISANCE OF. IF THE CONTRACTOR REQUIRES ANY SPECIFIC GUIDANCE THEN THEY SHOULD CONTACT HARLEY HADDOW PRIOR TO UNDERTAKING THE ELEMENT OF WORK.

REFERENCE DRAWINGS

REV	DESCRIPTION	BY	ENG	DATE
P07	ACO DRAINS AMENDED	RF	RF	22.01.2024
P06	ACO DRAINS ADDED	RF	RF	22.01.2024
P05	RWP LOCATIONS UPDATED	RF	RF	22.01.2024
P04	REVISED AS PER ARCHITECTS LAYOUT	RF	RF	18.01.2024
P03	REVISED AS PER ARCHITECTS LAYOUT	RF	RF	06.09.2023
P02	REVISED TO SUIT LEVELS DESIGN	RF	RF	01.09.2023
P01	PRELIMINARY DRAWING ISSUE	--	--	-

Project Status:
PRELIMINARY

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Project: 311206

West of Scotland Rugby Club
Proposed Sports Building
Milngavie

Drawing Title:
Proposed Below Ground Drainage Layout

Scale at A1:	Date:	Technician:	Engineer:
1:250	Aug. 2023	C.Connor	C.Connor

Drawing No.	Revision
311206-HAH-XX-XX-DR-C-0032	P07