OS NORTH

water levels surveyed during January 2024 = 206.16mAOD

EXISTING STONE BANK

EXISTING TREE TO BE REMOVED TO ENABLE CONSTRUCTION OF THE INTAKE CHAMBERS

INTAKE AND PENSTOCK MANHOLE CHAMBER CONSTRUCTION
END WALL ACTS AS A RETAINING WALL IN PLACE OF THE STONE BANKING.

APPROXIMATE CHAMBER LEVELS:
GROUND/COVER LEVEL = 206.70
TOP OF CHAMBER = 206.125
PIPE INVERT = 204.20
BASE OF CHAMBER = 203.70

EXISTING TREE TO BE REMOVED TO ENABLE CONSTRUCTION OF THE WEIR AND INTAKE CHAMBERS

INTAKE WEIR SECTION.ABSTRACTION FLOW OVER COANDA SCREENS. WITHIN REINFORCED CONCRETE CHANNEL STRUCTURE

COMPENSATION WEIR SECTION WITH V NOTCH WEIR FOR OUTFLOW CONTROL. REINFORCED CONCRETE CONSTRUCTION.

EXISTING WEIR SECTION TO REMAIN, BUT INTEGRATED INTO ADJACENT NEW WEIR SECTION.

ALL VISIBLE WALL FACES OF THE REINFORCED CONCRETE WEIR STRUCTURE ARE TO BE FACED WITH STONE.

EXISTING STONE BANK

BELOW GROUND , 500Ø PENSTOCK PIPE

SWEPT TEE JUNCTION

CHAMBER ACCESS COVERS MULTI-SECTIONAL COVER OVER VALVE CHAMBER FOR ACCESS PURPOSES

BELOW GROUND REINFORCED CONCRETE CHAMBERS WITH COVER SLAB. APPROX 3.3m DEEP FROM COVER TO UNDERSIDE OF BASE. CAUTION REQUIRED WHEN EXCAVATING AND PLACING CONCRETE DUE TO PROXIMITY TO LAKE EDGE

VISIBLE SECTION OF CHAMBER WALLS. UPSTAND EXTENDS UP TOWARDS GROUND LEVEL TO REPLACE STONE BANK. ALL VISIBLE WALL FACES TO BE STONE FACED.

TIMBER POST AND RAIL TIMBER FENCE FOR EDGE PROTECTION DURING SCREEN BRUSHING MAINTENANCE WORK

EXISTING STONE BANK

EXISTING FOOTPATHS

EXISTING STONE BANK

EXISTING FOOTBRIDGE

grass
tarmac footpath
post
grass
bin
grass
watercourse
weir
bar
u/s bridge
bridge
u/s bridge
watercourse
stone embankments
grass
post
grass

DO NOT SCALE

KEY

- PENSTOCK PIPE
- INDICATION OF WATER FLOW
- WATERCOURSE CHANNEL
- STONE BANK
- FOOTBRIDGE
- TARMAC FOOTPATH
- EXISTING GRASS AREA
- V-SHAPED NOTCH COMPENSATION WEIR
- INTAKE WEIR
- INTAKE AND PENSTOCK CHAMBER
- RETAINED SECTION OF EXISTING WEIR

REVISIONS

Rev.	Revision Notes	Date	Drawn By	Checked | Approved
P01	First Issue	27/09/24	FA	RB | RB

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CLIENT
RHONDDA CYNON TAF COUNTY BOROUGH COUNCIL

PROJECT
DARE VALLEY COUNTRY PARK
MICRO HYDRO DEVELOPMENT

TITLE
WEIR GENERAL ARRANGEMENT PLAN

HYDROCK PROJECT NO.	SCALE @ A1
C-34564	1:50

STATUS DESCRIPTION	STATUS
SUITABLE FOR STAGE APPROVAL	S4

DRAWING NO.	REVISION
34564-HYD-XX-XX-DR-C-1010	P01

Filename: Y:\34000-34999\34564 - Dare Valley Hydro Technical Advice\01. WIP\DR. Drawing\C\34564-HYD-XX-XX-DR-C-1010 - Weir General Arrangement Plan.dwg