

PROCESS LOCATION KEY:

- EXISTING INLET SCREENS.
- EXISTING PST No.1.
- EXISTING PST No.2.
- EXISTING ASP - ACTIVATED SLUDGE PROCESS.
- NEW RAW SLUDGE TANKS.
- NEW SLUDGE THICKENER.
- EXISTING SLUDGE HOLDING TANK No. 1.
- EXISTING SLUDGE HOLDING TANK No. 2.
- NEW FST No.1.
- NEW FST No.2.
- EXISTING ABANDONED FST No.1.
- EXISTING ABANDONED FST No.2.
- NEW BLENDING CHAMBER.
- NEW SAMPLE CHAMBER.
- NEW PFET PACKAGE.
- EXISTING STORM TANK.
- NEW FIRST FLUSH STORM TANK.
- EXISTING STORM RETURN PUMPING STATION.
- EXISTING STORM LIFT PUMPING STATION.
- EXISTING RAS/SAS PUMPING STATION.
- NEW MCC KIOSK.
- NEW DIVERSION CHAMBER & PUMPING STATION.
- NEW PFET LIFT & STORM RETURN PUMPS.
- NEW INTERCEPTION CHAMBER.
- NEW INLET SCREENS AND STRUCTURE.
- EXISTING ABANDONED STORM TANKS.
- EXISTING HIGH RATE FILTER PLANT.
- EXISTING CHEMICAL STORAGE AND DOSING KIOSK.
- EXISTING ADMIN BUILDING.
- EXISTING MAIN CONTROL BUILDING.
- NEW TRANSFORMER.
- N/A.
- N/A.
- EXISTING FLOW DIVERSION CHAMBER & SAMPLING POINT.
- NEW FST DISTRIBUTION CHAMBER.
- NEW RAS/SAS BELLMOUTH CHAMBERS.
- N/A.
- NEW FE BOOSTER SET.
- NEW FE SAMPLING KIOSK.
- NEW STANDBY GENERATOR ENCLOSURE.
- NEW POTABLE WATERBOOSTER SET.

PROCESS No & DRAWING REFERENCE:

- B16421-102503-02-ZZ-DR-MA-ME2000
- B16421-102503-03-ZZ-DR-MA-ME2001
- B16421-102503-04-ZZ-DR-MA-MM6001
- B16421-102503-06-ZZ-DR-MA-MM6016
- B16421-102503-05-ZZ-DR-EA-EF3003
- B16421-102503-05-ZZ-DR-CA-MM6003
- B16421-102503-08-ZZ-DR-CA-MM6008
- B16421-102503-08-ZZ-DR-MA-MM6007
- B16421-102503-06-ZZ-DR-CA-MM6009
- B16421-102503-05-ZZ-DR-CA-MM6005
- B16421-102503-05-ZZ-DR-EA-EF3001
- B16421-102503-08-ZZ-DR-MA-MM6019/6020
- B16421-102503-08-ZZ-DR-CA-MM6006
- B16421-102503-ZZ-DR-CA-CI5003
- B16421-102503-02-ZZ-DR-MA-ME2003
- B16421-102503-05-ZZ-DR-EA-EF3004
- B16421-102503-05-ZZ-DR-MA-MM6004
- B16421-102503-05-ZZ-DR-EA-EF3002
- B16421-102503-05-ZZ-DR-EA-EF3005

NOTES:

- REFER TO GENERAL NOTES.
- ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

LEGEND:

- NEW WORKS/MODIFICATIONS
- NEW ROAD
- NEW STONE/GRASSCRETE
- NEW FOOTPATH
- NEW SWALE
- NEW 10m WIDE TREE MIX
- NEW DRAW PITS & DUCTS
- NEW SECURITY CAMERA (2 No.)
- NEW FENCELINE
- NEW LINE OF VEGETATION SCREENING WORKS
- EXISTING STORM
- EXISTING FINAL EFFLUENT
- EXISTING PROCESS
- EXISTING RISING MAIN
- NEW POTABLE WATER
- NEW FINAL EFFLUENT
- NEW STORM
- NEW SLUDGE
- NEW PFET
- NEW DUTY FLOW
- NEW SAMPLE RETURN
- NEW STORM DRAINDOWN
- NEW DUCTS

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING:

CONSTRUCTION

- WORKING WITH CHEMICALS
- WORKING WITHIN CLOSE PROXIMITY TO EXISTING OVERHEAD CABLES - RISK OF ELECTROCUTION
- FINAL GROUND CONDITIONS UNKNOWN - RISK OF CONTAMINATED LAND
- JAPANESE KNOTWEED PRESENT

MAINTENANCE / CLEANING / OPERATION

DECOMMISSIONING / DEMOLITION

P04	FOR INFORMATION	TD	OM	BMB	26.01.24
P03	FOR INFORMATION	TD	OM	BMB	21.12.23
P02	FOR INFORMATION	TD	GS	BMB	15.09.23
P01	FOR INFORMATION	TD	GS	BMB	14.07.23
Rev.	Description	Drawn	Chkd	Appd.	Issue Date



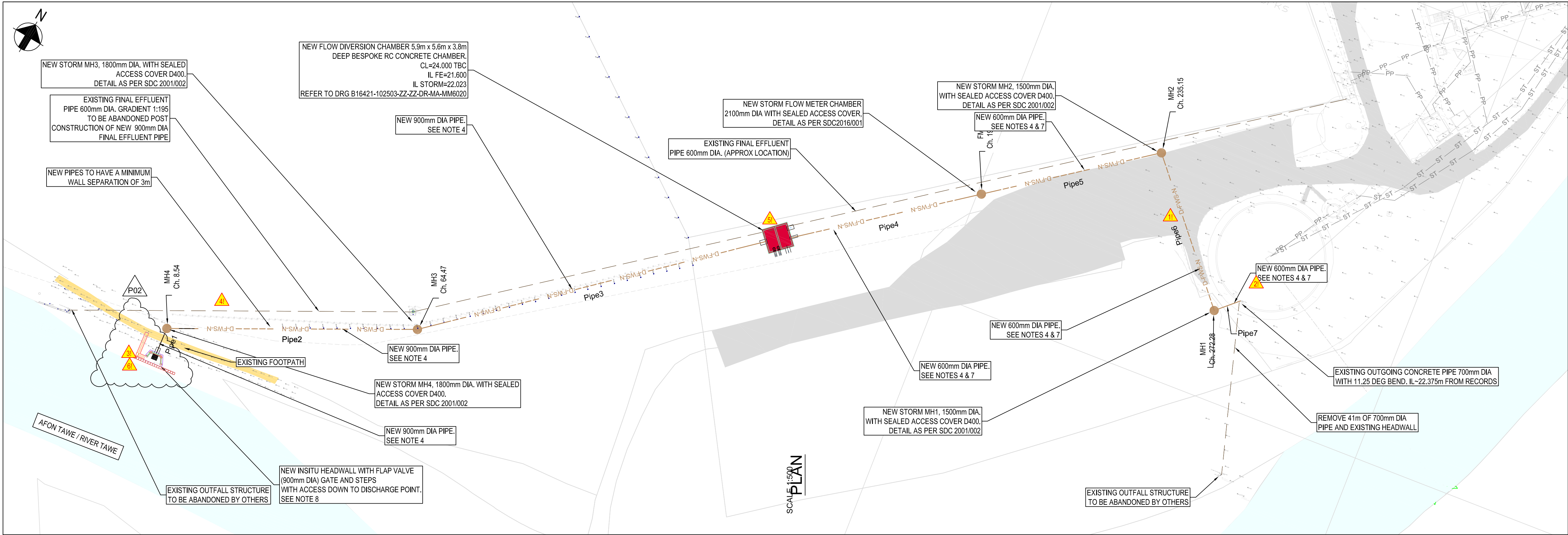
Project Name:
TREBANOS WwTW

Drawing Title:
PROPOSED SITE GENERAL ARRANGEMENT

Suitability:	S4
FOR INFORMATION	
Internal Project Number:	275281
Scale:	1:500
Rev.	@ A1
Drawing Number:	P04
B16421-102503-ZZ-ZZ-DR-CA-MM6103	

WARNING:- THIS MAY BE A REDUCED SIZE PRINT, CHECK SCALE BELOW





NOTES:

1.

ALL LEVELS & DIMENSIONS IN METRES UNLESS NOTED OTHERWISE (U.N.O).

2.

EXISTING SERVICES TAKEN FROM AS BUILT RECORDS AND CANNOT BE RELIED UPON FOR ACCURACY. SERVICES HAVE BEEN OBSERVED ON SITE WHERE NO RECORDS ARE AVAILABLE.

3.

LINE & LEVEL OF EXISTING UTILITIES TO BE CONFIRMED AT START OF CONSTRUCTION.

4.

PIPE BEDDING TO BE CLASS B AS PER DCWW DETAIL SDC 2003/001, AND AS PER SUPPLIER INFORMATION.

5.

TRENCH AND ROAD TO BE REINSTATED AS PER DCWW STANDARD DETAIL SDC 2002 SERIES.

6.

ALL PIPEWORK WITHIN GRASSLAND WITH LESS THAN 0.9m COVER TO BE ENCASED IN MIN 150mm CONCRETE SURROUND AS PER SDC DETAIL 2003/003.

7.

ALL PIPEWORK WITHIN ROAD AND VERGE WITH LESS THAN 1.2m COVER TO BE ENCASED IN MIN 150mm CONCRETE SURROUND AS PER SDC DETAIL 2003/003.

8.

REFER TO DRG B16241-102503-01-ZZ-DR-CA-CI5051 FOR HEADWALL OUTFALL DETAILS.

9.

ALL MANHOLES ARE TO BE PRESSURE TESTED.

10.

CLAY STAKES TO BE CONSTRUCTED TO SDC2003/004 EVERY 10m FROM THE OUTFALL SIDE. TBC.

11.

VEGETATION CLEARANCE REQUIRED FOR THE INSTALLATION OF THE NEW HEADWALL. JAPANESE KNOTWEED HAS BEEN NOTED ON THE RIVER BANKS - APPROPRIATE MANAGEMENT PLAN OF INVASIVE SPECIES IS REQUIRED BY THE NRW.

LEGEND:

NEW FLOW DIVERSION CHAMBER

NEW MANHOLE

NEW PIPE

EXISTING GRAVITY FOUL WATER PIPE

EXISTING FOOTPATH

EXISTING GROUND LEVEL

ALIGNMENT - PIPE RUN - LONGSECTION
SCALE: H 1:500,V 1:200. DATUM: 19.000

MAIN PIPE RUN MANHOLE SCHEDULE & SET OUT						
MH REF.	MH TYPE	COVER TYPE	EASTING	NORTHING	COVER LEVEL (OVERALL MH DEPTH)	CONNECTED PIPES
FM1	2,100 DIA TYPE2 (B.12)	D400	271100.88	202224.69	23.88 (2.162)	Pipe5 IL. 21.94 Pipe4 IL. 21.94
MH1	1,500 DIA TYPE2 (B.12)	D400	271158.72	202219.30	24.41 (2.279)	Pipe7 IL. 22.36
MH2	1,500 DIA TYPE2 (B.12)	D400	271134.99	202247.85	24.20 (2.159)	Pipe6 IL. 22.27 Pipe5 IL. 22.27
MH3	1,800 DIA TYPE2 (B.12)	D400	270994.53	202150.93	23.76 (2.766)	Pipe2 IL. 21.42 Pipe3 IL. 21.42
MH4	1,800 DIA TYPE2 (B.12)	D400	270942.33	202130.86	23.73 (2.656)	Pipe1 IL. 21.30 Pipe2 IL. 21.30
SFA7 - TYPE2 - MANHOLE (B.12)						

MAIN PIPE RUN PIPE SCHEDULE					
PIPE NAME	SIZE (mm)	LENGTH (m)	GRADE (SLOPE)	INVERT LEVEL (START)	INVERT LEVEL (END)
PIPE1	900	6.05	1:242.17 (0.41%)	21.30	21.27
PIPE2	900	55.92	1:445.60 (0.22%)	21.42	21.30
PIPE3	900	80.20	1:445.97 (0.22%)	21.60	21.42
PIPE4	600	43.74	1:126.52 (0.79%)	21.94	21.60
PIPE5	600	41.23	1:126.52 (0.79%)	22.27	21.94
PIPE6	600	37.12	1:403.51 (0.25%)	22.36	22.27
PIPE7	600	6.24	1:445.48 (0.22%)	22.38	22.36

NOTES ABOUT STATUTORY UTILITY PROVIDERS RETURNS

1. THE POSITIONS OF THE EXISTING SERVICES ON THIS DRAWING HAVE BEEN INTERPRETED FROM INFORMATION RECEIVED FROM THE STATUTORY LOCAL AUTHORITIES.

2. THIS DRAWING IS DIAGRAMMATIC AND HAS BEEN PREPARED AS AN OVERVIEW TO DETERMINE THE ROUTES OF SERVICES. IT IS NOT DEFINITIVE AND THE SITE TEAM MUST REFER TO THE ORIGINAL RECORDS FOR FULL DETAILS AND TO CONFIRM THE LOCATIONS OF EXISTING SERVICES ON SITE PRIOR TO THE WORKS BEING UNDERTAKEN.

3. THE SITE TEAM SHOULD ANTICIPATE ADDITIONAL SERVICES CONNECTING TO THE PROPERTIES AND / OR STREET FURNITURE SUCH AS LAMPPOSTS THAT ARE NOT GENERALLY COVERED BY THE RETURNS FROM INDIVIDUAL STATUTORY AUTHORITIES

4. EXACT LOCATION OF UTILITIES SHOULD BE CONFIRMED ON SITE.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING:

CONSTRUCTION

1.

RISK OF UTILITY STRIKE/DIVERSION/REMOVAL

2.

CONDITION OF EXISTING STORM TANK UNKNOWN. RISK OF CONNECTION FAILURE

3.

RISK OF DROWNING - WORKING CLOSE TO & WITHIN THE RIVER WITH FLUCTUATING WATER LEVELS

4.

UNKNOWN GROUND CONDITIONS. RISK OF CONTAMINATED LAND

5.

WORKING IN PROXIMITY OF EXISTING SEWER

6.

JAPANESE KNOTWEED PRESENT

MAINTENANCE / CLEANING / OPERATION

DECOMMISSIONING / DEMOLITION

REFER TO THE DESIGN RISK REGISTER FOR FURTHER DETAILS. IT IS ASSUMED THAT ALL THE WORKS ON THIS DRAWING WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WHO HAS CARRIED OUT A COMPREHENSIVE RISK ASSESSMENT.

P02

HEADWALL INSITU

TD

GS

BMB

03/08/23

P01

FOR INFORMATION

TD

GS

BMB

14/07/23

Rev.

Description

Drawn

Chkd.

Appd.

Issue Date

Capital Delivery Alliance

Cynghair Cyflawni Cyfalaf

Ty Awen, Spooner Close, Coad Kewnew, Newport, NP108FZ

Project Name

TREBANOS WwTW

Drawing Title

PIPE NETWORK
FINAL EFFLUENT TO OUTFALL
PLAN & PROFILE

Subsidiary

FOR INFORMATION

Internal Project Number

275281

Scale

1:500

Rev.

P02

Drawing Number

B16241-103503-01-ZZ-DR-CA-CI5050

Subsidiary Code

S2

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