

KEY

EXISTING SERVICES

— GAS —

— CWS —

— COMMS —

— TV —

— W —

— LV —

— RPA —

GAS

COMBINED SEWER

TELECOMMS

TV DUCT

WATER MAIN

LV CABLE

ROOT PROTECTION AREA (SEE NOTE 12)

PROPOSED

— ○ —

MINE WATER TRANSFER NETWORK

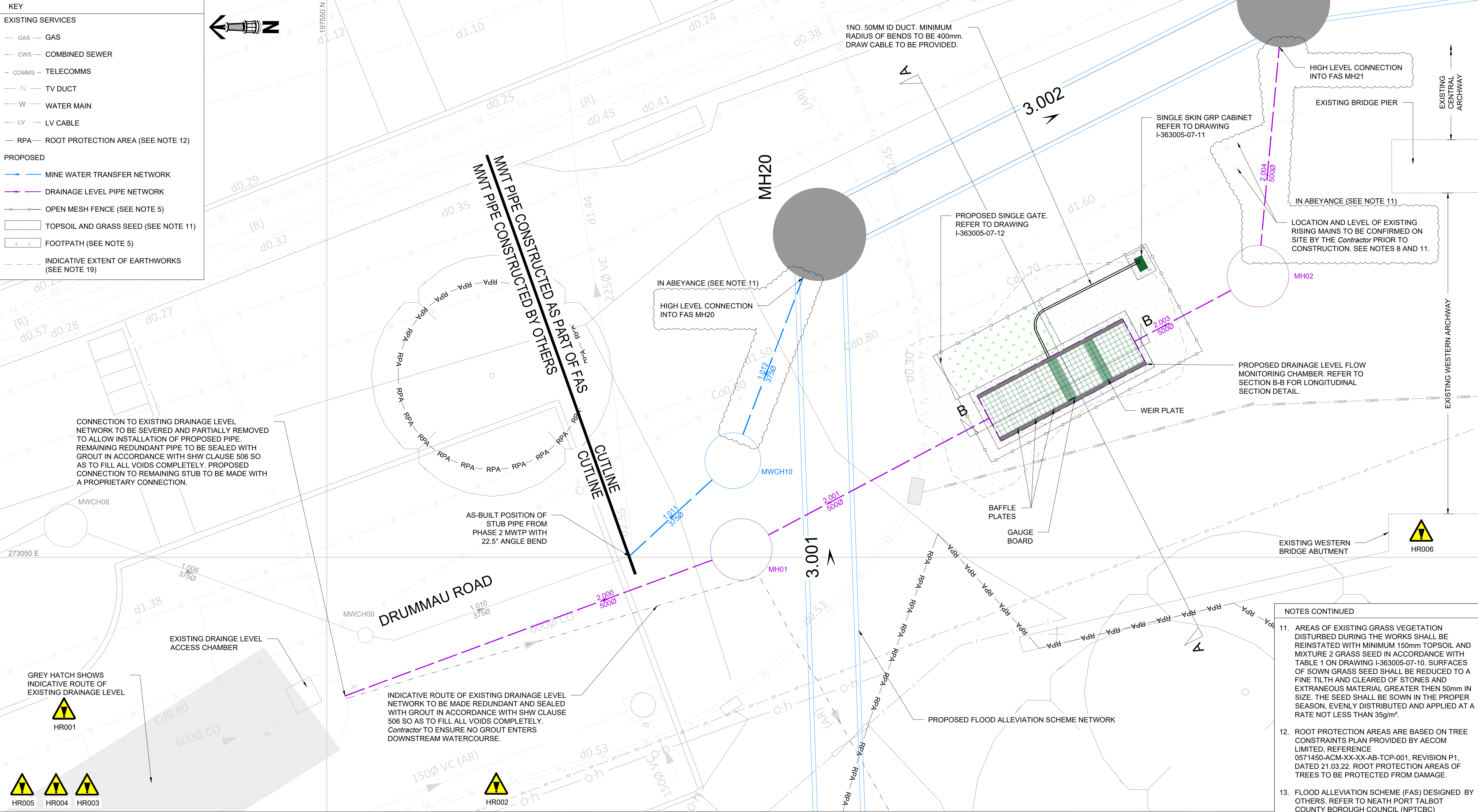
DRAINAGE LEVEL PIPE NETWORK

OPEN MESH FENCE (SEE NOTE 5)

TOPSOIL AND GRASS SEED (SEE NOTE 11)

FOOTPATH (SEE NOTE 5)

INDICATIVE EXTENT OF EARTHWORKS (SEE NOTE 19)



- NOTES
1.

DO NOT SCALE THIS DRAWING. ALL DIMENSIONS MUST BE CHECKED/ VERIFIED ON SITE. IF IN DOUBT ASK.
2.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT COAL AUTHORITY DRAWINGS AND SPECIFICATIONS.
3.

ALL DIMENSIONS IN MILLIMETRES UNLESS NOTED OTHERWISE. ALL LEVELS IN METRES UNLESS NOTED OTHERWISE.
4.

ANY DISCREPANCIES NOTED ON SITE ARE TO BE REPORTED TO THE DESIGNER IMMEDIATELY.
5.

FOR DRAINAGE LEVEL FLOW MONITORING COMPOUND DETAILS. REFER TO DRAWING I-363005-07-12. FOR SECTIONS, REFER TO DRAWING I-363005-07-11.
6.

ALL WORKS TO BE IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAY WORKS (SHW), UNLESS OTHERWISE STATED.
7.

DRAWING IS BASED ON TOPOGRAPHICAL SURVEY PROVIDED BY INTERLOCKS SURVEYS LIMITED, DRAWING REFERENCE 210072, DATED 11.02.21.
8.

LAYOUT AND LEVEL OF EXISTING SERVICES IS BASED ON GPR SURVEY INFORMATION PROVIDED BY LANDMARK SURVEYS WALES, REFERENCE 6028_R2, DATED 19.11.21 AND CORNERSTONE PROJECTS LTD UTILITIES SEARCH REPORT, DATED 07.04.21. REFERENCE I-363005. WHERE GPR SURVEY DOES NOT INCLUDE THE LEVEL OF EXISTING PUBLIC UTILITIES, THE LEVEL HAS BEEN BASED ON NJUG PUBLICATION: VOLUME 1 ISSUE 9, RECOMMENDED MINIMUM DEPTHS, TABLE 1. LOCATION AND LEVEL OF EXISTING SERVICES TO BE CONFIRMED ON SITE. BY THE Contractor PRIOR TO WORK COMMENCING. ANY DISCREPANCIES TO BE REPORTED TO THE COAL AUTHORITY ENGINEER IMMEDIATELY.
9.

DETAILS OF EXISTING DRAINAGE LEVEL CHAMBER BASED ON AS-BUILT CHAMBER DETAIL DRAWING.
10.

EXISTING KNOTWEED IS PRESENT ON SITE IN THE VICINITY OF THE PROPOSED OUTFALL AND EXISTING WATERCOURSE. THE Contractor SHALL TAKE STEPS TO PREVENT SPREAD. ALL EXCAVATION ARISING CONTAINING KNOTWEED TO BE REMOVED OFF SITE TO A SUITABLY LICENSED TIP.
11.

DESIGN IN ABEYANCE, PENDING CONFIRMATION OF THE POSITION OF EXISTING UTILITIES. SEE NOTE 8. DESIGN TO BE REVIEWED PRIOR TO CONSTRUCTION, WHEN POSITION OF UTILITIES IS CONFIRMED.

NOTES CONTINUED

11.

AREAS OF EXISTING GRASS VEGETATION DISTURBED DURING THE WORKS SHALL BE REINSTATED WITH MINIMUM 150mm TOPSOIL AND MIXTURE 2 GRASS SEED IN ACCORDANCE WITH TABLE 1 ON DRAWING I-363005-07-10. SURFACES OF SOWN GRASS SEED SHALL BE REDUCED TO A FINE TILT AND CLEARED OF STONES AND EXTRANEIOUS MATERIAL GREATER THEN 50mm IN SIZE. THE SEED SHALL BE SOWN IN THE PROPER SEASON, EVENLY DISTRIBUTED AND APPLIED AT A RATE NOT LESS THAN 35g/m².

12.

ROOT PROTECTION AREAS ARE BASED ON TREE CONSTRAINTS PLAN PROVIDED BY AECOM LIMITED, REFERENCE 0571450-ACM-XX-XX-AB-TCP-001, REVISION P1, DATED 21.03.22. ROOT PROTECTION AREAS OF TREES TO BE PROTECTED FROM DAMAGE.

13.

FLOOD ALLEVIATION SCHEME (FAS) DESIGNED BY OTHERS. REFER TO NEATH PORT TALBOT COUNTY BOROUGH COUNCIL (NPTCBC) INFORMATION.

14.

LOCATION AND LEVEL OF CONNECTION POINTS FOR THE PROPOSED NETWORKS TO BE CONFIRMED ON SITE BY THE Contractor IN ADVANCE OF WORK COMMENCING. ANY DISCREPANCIES SHALL BE REPORTED TO THE COAL AUTHORITY ENGINEER IMMEDIATELY.

15.

FOR CHAMBER TYPES REFER TO SEWERS FOR ADOPTION, 7TH EDITION: TYPE 3 - FIGURE B18

16.

REINSTATEMENT OF MAINTAINABLE HIGHWAYS TO BE IN ACCORDANCE WITH NEATH PORT TALBOT COUNTY BOROUGH COUNCIL (NPTCBC) SPECIFICATION FOR THE CONSTRUCTION OF ROADS FOR ADOPTION. EXISTING PAVEMENT CONSTRUCTION TO BE CONFIRMED BY THE Contractor, PRIOR TO ANY REINSTATEMENT WORKS. ANY DISCREPANCIES TO BE REPORTED TO THE MINING REMEDIATION AUTHORITY AUTHORITY ENGINEER IMMEDIATELY.

17.

CHAMBER COVER AND FRAMES SHALL COMPLY WITH THE REQUIREMENTS OF BS EN 124:2015. MINIMUM D400 IN TRAFFICKED AREAS AND C250 ELSEWHERE. COVER AND FRAME SHALL BE BEDDED IN POLYESTER RESIN MORTAR. COVER TO BE HINGED.

18.

LOCATION OF FENCE POSTS TO BE DETERMINED ON SITE BY THE CONTRACTOR TO COORDINATE WITH EXISTING SERVICES.

19.

INDICATIVE EXTENT OF EARTHWORKS BASED ON MAXIMUM GRADIENTS. ACTUAL EXTENT OF EARTHWORKS TO BE DETERMINED ON SITE, BY THE CONTRACTOR, BASED ON AVAILABILITY OF SUITABLE ARISING. FINISHED LEVELS SHALL BE SUITABLE TO AVOID SURFACE PONDING.

PIPE REF	PIPE DIAMETER (mm)	LENGTH (m)	SLOPE (1:X)	UPSTREAM INVERT LEVEL (mAOD)	DOWNSTREAM INVERT LEVEL (mAOD)	FALL (m)	UPSTREAM MANHOLE REFERENCE	UPSTREAM MANHOLE DIAMETER (mm)	UPSTREAM COVER LEVEL (mAOD)	UPSTREAM MANHOLE DEPTH TO SOFFIT (m)	UPSTREAM CHAMBER TYPE	PIPE MATERIAL	PIPE BED AND SURROUND	UPSTREAM MANHOLE CO-ORDINATES		NOTES
														EASTING	NORTHING	
2.000	500	10.281	SEE NOTES	29.294	29.598	-	EX01	-	32.294	2.500	EXISTING	TWINWALL HDPE	TYPE S	273046.625	197549.559	TO CONNECT TO EXISTING CHAMBER. REFER TO LONGITUDINAL SECTION.
2.001	500	6.823	10.6	29.598	28.955	0.643	MH01	1050	31.344	1.246	TYPE 3	TWINWALL HDPE	TYPE S	273050.191	197539.916	
2.002	-	4.000	-	28.455	28.455	0.500	FM U/S	-	29.893	0.938	-	TWINWALL HDPE	TYPE S	273053.381	197533.884	TO CONNECT TO PROPOSED FLOW MONITORING CHAMBER
2.003	500	3.401	7.4	28.455	27.996	0.459	FM D/S	-	29.893	0.938	-	TWINWALL HDPE	TYPE S	273055.250	197530.348	
2.004	500	6.371	8.6	27.996	27.252	0.744	MH02	1500	29.307	0.811	TYPE 3	-	-	273056.840	197527.341	
-	-	-	-	26.142	-	-	OUTFALL	-	28.634	1.992	-	-	-	273063.543	197526.718	HIGH LEVEL CONNECTION TO PROPOSED FAS CHAMBER MH21. SEE NOTE 13.

PROPOSED DRAINAGE LEVEL NETWORK SCHEDULE

PIPE REF	PIPE DIAMETER (mm)	LENGTH (m)	SLOPE (1:X)	UPSTREAM INVERT LEVEL (mAOD)	DOWNSTREAM INVERT LEVEL (mAOD)	FALL (m)	UPSTREAM MANHOLE REFERENCE	UPSTREAM MANHOLE DIAMETER (mm)	UPSTREAM COVER LEVEL (mAOD)	UPSTREAM MANHOLE DEPTH TO SOFFIT (m)	UPSTREAM CHAMBER TYPE	PIPE MATERIAL	PIPE BED AND SURROUND	UPSTREAM MANHOLE CO-ORDINATES		NOTES
														EASTING	NORTHING	
1.011	375	3.437	20.7	29.622	29.456	0.166	STUB	-	31.889	1.892	EXISTING STUB	TWINWALL HDPE	TYPE S	273050.023	197542.640	TO CONNECT TO STUB FROM SKEWEN PHASE 2 NETWORK (BY OTHERS). SEE NOTE 14.
1.012	375	5.875	9.5	29.456	28.840	0.616	MWCH10	1350	31.222	1.391	TYPE 3	TWINWALL HDPE	TYPE S	273052.348	197540.120	
-	-	-	-	27.292	-	-	FAS MH20	-	30.300	2.633	FAS CHAMBER	-	-	273057.856	197538.010	TO CONNECT TO PROPOSED FAS CHAMER MH20. SEE NOTE 13.

PROPOSED MINE WATER TRANSFER PIPE SCHEDULE
(PIPE 1.011 TO PIPE 1.012)

VARIETY	PERCENTAGE BY MASS
ROUGH-STALKED MEADOW GRASS	15 - 25
CREPING RED FESCUE	40 - 50
BROWNTOP BENT	5 - 15
TIMOTHY	20 - 30

TABLE 1 - GRASS SEED MIX

REFERENCE	HAZARD
HR001	POTENTIAL UNRECORDED MINE WORKINGS.
HR002	OVERHEAD AND UNDERGROUND SERVICES.
HR003	MINE WATER.
HR004	MINE GAS.
HR005	PEDESTRIANS AND TRAFFIC MANAGEMENT.
HR006	WORKS IN PROXIMITY TO AND BENEATH EXISTING RAILWAY ARCH BRIDGE.

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ENGINEERING DEPARTMENT DESIGN

Mining Remediation Authority

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Project Title.

GOSHEN PARK,SKEWEN, NEATH PORT TALBOT, SA10 6PT

Drawing Title.

DRAINAGE LEVEL FLOW MONITORING COMPOUND LAYOUT AND SECTIONS

Scale

AS SHOWN

Drawn

H. Coleman

Reviewed

C. Whittaker

Approved

n/a

Drawing Status.

PRELIMINARY

Drawing No.

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Revision.

P3