

NOTES

- DO NOT SCALE FROM THIS DRAWING.
- ALL DIMENSIONS IN METRES UNLESS OTHERWISE STATED.
- FOR DETAILS OF PROPOSED COMBINED KERB AND DRAINAGE SYSTEM - REFER TO FOWLER AND HOLDEN FAST FLOW BRIDGE DECK SYSTEM AND DRAWING REFERENCES - REFER TO DRAWING CJ008882-ECH-HDG-44301694-DE-D-0001 AND VOLUME 2A - DRAINAGE MANUFACTURER DETAILS.
- BEFORE COMMENCING CONSTRUCTION THE CONTRACTOR MUST CHECK THE INVERT LEVELS OF EXISTING SEWERS TO WHICH CONNECTIONS ARE MADE. IN ADDITION THE CONTRACTOR MUST LOCATE AND DETERMINE INVERT LEVELS OF THE EXISTING SPURS TO WHICH CONNECTIONS ARE PROPOSED. ANY DISCREPANCIES ARE TO BE NOTIFIED TO THE OVERSEEING ORGANISATION, PRIOR TO CONSTRUCTION.
- ALL DRAINAGE WORKS SHOULD COMMENCE AT THE PROPOSED DOWNSTREAM CONNECTION POINT. THE WORKS CONTINUING UPSTREAM FOLLOWING CONFIRMATION OF THE TIE-IN INVERT LEVELS TO THE ENGINEER. CONNECTIONS TO MANHOLES OR LARGER SIZED PIPES ETC. SHOULD BE SOFFIT TO SOFFIT UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER, IF THIS IS NOT POSSIBLE INFORM THE OVERSEEING ORGANISATION IMMEDIATELY.
- COVER LEVELS SHOWN ARE APPROXIMATE. COVERS AND FRAMES SHALL BE SET TO FINISHED GROUND LEVELS AND FALLS AS PER HIGHWAY 3D LEVELS.
- ROAD GULLY OUTLET PIPES ARE TO BE 150mm DIA. WITH CONCRETE SURROUND AND FLEXIBLE JOINTS.
- ALL EXISTING MANHOLE COVERS, GULLIES, ETC. ARE TO BE RAISED TO SUIT NEW LEVEL.
- THE CONTRACTOR IS TO DETERMINE THE ORIENTATION OF THE MANHOLE CHAMBERS TO ENSURE THAT THE COVERS ARE NOT LOCATED WITHIN THE PATHS OF VEHICLE TRACKS.
- THE EXISTING DRAINAGE ROUTE AS SHOWN IS INDICATIVE. DRAWING SHOWS APPROXIMATE LOCATIONS OF EXISTING DRAINAGE APPARATUS IN THE IMMEDIATE VICINITY OF THE WORKS. THEY ARE INTENDED FOR GENERAL GUIDANCE ONLY AND NO GUARANTEE CAN BE GIVEN ON THEIR ACCURACY.
- WHERE GROUNDWATER IS PRESENT AT A LEVEL ABOVE TRENCH FORMATION IN FINE-GRAINED SOILS, THE STRENGTH OF PIPE BEDDINGS CAN BE REDUCED, THEREFORE PIPE BEDDING IS TO BE SURROUNDED BY GEOTEXTILE AS DETAILED IN CONTRACT SPECIFICATION. CONTRACTOR SHOULD STRICTLY FOLLOW THE INSTALLATION METHOD FOR POOR GROUND CONDITION PROVIDED IN DMRB AND THE DESIGN AND CONSTRUCTION GUIDANCE (DCG).

REFER TO DRAWING
CJ008882-ECH-HDG-44301694-DE-D-0005
FOR TYPICAL PERFORATED PIPE DETAILS

REFER TO DRAWING
CJ008882-ECH-HDG-44301694-DE-D-0005
FOR TYPICAL PERFORATED PIPE DETAILS

NOTE:

THE PROXIMITY OF PROPOSED DRAINAGE FEATURES, DRAINAGE PIPES & UTILITY CROSSINGS TO EXISTING BURIED UTILITIES APPARATUS MUST BE CHECKED BEFORE THE COMMENCEMENT OF ANY DRAINAGE WORKS ON SITE. THE CONTRACTOR SHALL CARRYOUT GROUND PENETRATION RADAR SURVEYS AND TRIAL HOLES TO VERIFY THE LOCATION OF BURIED UTILITIES APPARATUS. THE CONTRACTOR SHALL REPORT ALL RESULTS OF THESE INVESTIGATIONS TO THE OVERSEEING ORGANISATION, HIGHLIGHTING PROXIMITY DIMENSIONS AND POTENTIAL CLASHES OF PROPOSED DRAINAGE FEATURES AND PIPES WITH EXISTING BURIED UTILITIES APPARATUS BEFORE COMMENCING ANY DRAINAGE WORKS.

EXCAVATION FOR PROPOSED DRAINAGE FEATURES AND PIPES IN CLOSE PROXIMITY OF EXISTING BURIED UTILITIES APPARATUS SHALL BE CARRIED OUT BY VACUUM EXCAVATION TECHNIQUES OR BY HAND IN ACCORDANCE WITH THE CONTRACTORS RAMS - COMPLIANT TO THE REQUIREMENTS OF THE RELEVANT UTILITY COMPANY.

PARTS OF THIS DRAWING SHOULD BE SHOWN IN COLOUR. IF THIS NOTE IS NOT RED REPRINT A COLOURED COPY

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D1	P07	FIT FOR COSTING	22.10.2024	SW	JGO	gpc	CLIENT
S3	P06	AMENDMENTS FOLLOWING ASSET MANAGEMENT CONSULTATION	04.10.2023	SW	JGO	GDC	
D1	P05	FIT FOR COSTING	27.03.2023	DF/SW	JGO	GDC	
D1	P04	FIT FOR COSTING	28.09.2022	DF	JGO	GDC	
S3	P03	DRAINAGE DESIGN UPDATES	21.04.2022	DF/RM			
S3	P02	DITCH SOUTH OF ROUNDABOUT AMENDED, MINOR CHANGES TO CHAMBER LOCATIONS	28.01.2021	AB	JGO	GDC	
SUIT	REV	AMENDMENTS	DATE	CAD	CHKD	APPD	

HCC CAD FILE: C:\Users\jpetwel\Hampshire County Council\Botley Bypass - EC Project Documents\CAD\01-WIP\03-Drawings\03-Drainage\CJ008882-ECH-HDG-44301694-DR-D-0001-0010 DRAINAGE LAYOUT.dwg

HAMPSHIRE COUNTY COUNCIL
UNIVERSAL SERVICES DIRECTORATE
TRANSPORT IMPLEMENTATION



Hampshire
County Council

Engineering Services

TIM LAWTON BENG CENG FICE FCIHT : ASSISTANT DIRECTOR OF UNIVERSAL SERVICES

DESIGNER	PM
CAD	SW
CHECKED	JGO
APPROVED	GDC

SCALE @ A1	1:250
DATE	14.12.2020
SHEET NUMBER	7 OF 10
DRAWING NUMBER	CJ008882-ECH-HDG-44301694-DR- D -0007

BOTLEY BYPASS

DRAINAGE LAYOUT

HCC CAD PLOT: 22/10/2024 10:41:23

SUIT REV
D1 P07

KEY

- S#-# COMBINED CATCHPIT GULLY
- N#-PG# PROPOSED GULLY WITH REFERENCE
- PROPOSED COMBINED DRAINAGE AND KERB SYSTEM GULLY OUTFALL. SEE NOTE 3.
- RUB# PROPOSED COMBINED KERB AND DRAINAGE SYSTEM - FOWLER AND HOLDEN FAST FLOW BRIDGE DECK SYSTEM RODDING UNIT OR APPROVED EQUIVALENT
- N#-HW# PROPOSED HEADWALL WITH REFERENCE GULLY & HEADWALL REFERENCE FOR SURFACE WATER DRAINAGE
- N1-PG## NETWORK 1
- N2-PG## NETWORK 2
- N3-PG## NETWORK 3
- N4-PG## NETWORK 4
- N5-PG## NETWORK 5
- N1-HW## NETWORK 1
- N2-HW## NETWORK 2
- N3-HW## NETWORK 3
- N4-HW## NETWORK 4
- N5-HW## NETWORK 5
- DIRECTION OF FLOW
- EXISTING GULLY
- ###.### EXISTING SURFACE WATER PIPE WITH FLOW DIRECTION AND PIPE DETAILS
- 1000 @ 1:140 PROPOSED SURFACE WATER PIPE WITH FLOW DIRECTION AND PIPE DETAILS (LINE THICKNESS INDICATES PIPE DIAMETER)
- FD-N#-### PROPOSED HIGHWAY FILTER DRAIN FOR CONSTRUCTION DETAILS REFER TO DRAWINGS CJ008882-ECH-HDG-44301694-DE-D-001 AND APPENDIX 5/1
- PROPOSED PRIVATE INDUSTRIAL ESTATE DRAINAGE DIVERSION.
- S#-# PROPOSED SURFACE WATER PRECAST CONCRETE CATCHPIT/MANHOLE WITH REFERENCE, COVER AND INVERT LEVELS
- PROPOSED SURFACE WATER MANHOLE WITH FLOW CONTROL DEVICE. REFERENCE, COVER AND INVERT LEVELS. FOR CONSTRUCTION DETAILS REFER TO DRAWINGS CJ008882-ECH-HDG-44301694-DE-D-0002 TO 0004 AND 0012
- PIPE & MANHOLE REFERENCE FOR SURFACE WATER DRAINAGE
- N1-1.000 NETWORK 1
- N2-1.000 NETWORK 2
- N3-1.000 NETWORK 3
- N4-1.000 NETWORK 4
- N5-1.000 NETWORK 5
- S1-### NETWORK 1
- S2-### NETWORK 2
- S3-### NETWORK 3
- S4-### NETWORK 4
- S5-### NETWORK 5
- PROPOSED COMBINED DRAINAGE AND CHANNEL SYSTEM - FOWLER AND HOLDEN FAST FLOW BRIDGE DECK SYSTEM OR APPROVED EQUIVALENT
- PROPOSED COMBINED KERB AND DRAINAGE SYSTEM - FOWLER AND HOLDEN FAST FLOW EXPANSION JOINT (TYPE 5) OR APPROVED EQUIVALENT
- CF-FD-N#-### PROPOSED COUNTERFORT DRAIN FOR CONSTRUCTION DETAILS REFER TO DRAWINGS CJ008882-ECH-HDG-44301694-DE-D-008 AND APPENDIX 5/1
- FW-MH-### PROPOSED FOUL WATER PRECAST CONCRETE MANHOLE AS PER THE DESIGN AND CONSTRUCTION GUIDANCE WITH REFERENCE, COVER AND INVERT LEVELS
- N#-FW### PROPOSED FOUL WATER PIPE WITH FLOW DIRECTION AND PIPE DETAILS AS PER THE DESIGN AND CONSTRUCTION GUIDANCE (LINE THICKNESS INDICATES PIPE DIAMETER)
- SW-MH-### PROPOSED SURFACE WATER PRECAST CONCRETE MANHOLE AS PER THE DESIGN AND CONSTRUCTION GUIDANCE WITH REFERENCE, COVER AND INVERT LEVELS
- N#-SW### PROPOSED SURFACE WATER PIPE WITH FLOW DIRECTION AND PIPE DETAILS AS PER THE DESIGN AND CONSTRUCTION GUIDANCE (LINE THICKNESS INDICATES PIPE DIAMETER)
- FD-N#-### FILTER DRAIN WITH CONCRETE PROTECTION ABOVE THE PIPE. REFER TO DRAWING NO. CJ008882-ECH-HDG-44301694-DE-D-0005 FOR CONSTRUCTION DETAILS.
- NFD-N#-### PROPOSED HIGHWAY SUB SURFACE DRAINAGE (NARROW FILTER DRAIN). FOR CONSTRUCTION DETAILS REFER TO DRAWING CJ008882-ECH-HDG-44301694-DE-D-0001 AND APPENDIX 5/4.

SHEET LOCATION LAYOUT