



1. DO NOT SCALE FROM THIS DRAWING.
2. ALL DIMENSIONS IN METRES UNLESS OTHERWISE STATED.
3. FOR DETAILS OF PROPOSED COMBINED KERB AND DRAINAGE SYSTEM - REFER TO FOWLER AND HOLDEN FAST FLOW BRIDGE DESIGN COMPANION DRAWING REFERENCES - REFER TO DRAWING CJ008882-ECH-HOG-44301694-DE-D-0001 AND VOLUME 2A - DRAINAGE MANUFACTURER DETAILS.
4. BEFORE COMMENCING CONSTRUCTION THE CONTRACTOR MUST CHECK 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.
5. ALL DRAINAGE WORKS SHOULD COMMENCE AT THE PROPOSED DOWNSTREAM CONNECTION POINT. THE WORKS CONTINUING UPSTREAM TO THE EXISTING INVERT. THE CONTRACTOR MUST 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.
6. COVER LEVELS SHOWN ARE APPROXIMATE. COVERS AND CHAMBERS SHALL BE SET TO FINISHED GROUND LEVELS AND FALLS AS PER HIGHWAY 34 LEVELS.
7. ROAD GULLY OUTLET PIPES ARE TO BE 150mm DIA. WITH CONCRETE SURROUND AND FLEXIBLE JOINTS.
8. ALL EXISTING MANHOLE COVERS, GULLIES, ETC. ARE TO BE RAISED TO SUIT NEW LEVEL.
9. 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.
10. THE EXISTING DRAINAGE ROUTE AS SHOWN IS INDICATIVE. DRAWING SHOWS APPROXIMATE LOCATIONS OF EXISTING DRAINAGE APPARATUS IN THE IMMEDIATE VICINITY OF THE TOWNSHIP. THEY ARE INTENDED FOR GUIDANCE ONLY AND NO GUARANTEE CAN BE GIVEN ON THEIR ACCURACY.
11. 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 TOWNSHIP AND LOCAL COUNCIL FOR GROUND CONDITION PROVIDED IN DCRB AND THE DESIGN AND CONSTRUCTION GUIDANCE (DMG).

SE-# COMBINED CATCHPIT GULLY

NI-PG-# PROPOSED GULLY WITH REFERENCE
AND KERBS SYSTEM GULLY OUTFALL, SEE NOTE 3.

RU# PROPOSED COMBINED KERB AND DRAINAGE SYSTEM - FOWLER AND HOLDEN FAST FLOW BRIDGE DECK SYSTEM
RODDING UNIT OR APPROVED EQUIVALENT

NI-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

NI **###** PROPOSED SURFACE WATER PIPE WITH FLOW DIRECTION AND PIPE DETAILS (LINE THICKNESS INDICATES PIPE DIAMETER)

FD-NI-## PROPOSED HIGHWAY FILTER DRAIN FOR CREST PROTECTION DETAILS REFER TO DRAWINGS
1000 @ 1:140 C/J008882-ECH-HDG-44301694-DE-D-001 AND APPENDIX 5/1.

 PROPOSED PRIVATE INDUSTRIAL ESTATE DRAINAGE DIVERSION.

SE-# PROPOSED SURFACE WATER PRECAST CONCRETE CATCHPIT/MANHOLE WITH REFERENCE, COVER AND INVERT LEVELS

SE-# PROPOSED SURFACE WATER MANHOLE WITH FLOW CONTROL DEVICE, REFERENCE, COVER AND INVERT LEVELS. FOR CONSTRUCTION DETAILS REFER TO DRAWINGS
CL 8.93 C/J008882-ECH-HDG-44301694-DE-D-0002 TO 0000 AND 0012

SE-# 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

CDOM PROPOSED COMBINED DRAINAGE AND CHANNEL SYSTEM - FOWLER AND HOLDEN FAST FLOW BRIDGE DECK SYSTEM OR APPROVED EQUIVALENT

EDM PROPOSED COMBINED KERB AND DRAINAGE SYSTEM - FOWLER AND HOLDEN FAST FLOW EXPANSION JOINT (TYPE S) OR APPROVED EQUIVALENT

CF-FD-NI-## PROPOSED COUNTERFOOT DRAIN FOR CONSTRUCTION DETAILS REFER TO DRAWINGS
2250 @ 1:## C/J008882-ECH-HDG-44301694-DE-D-008 AND APPENDIX 5/1.

FW-MH-# PROPOSED FLOW WATER PRECAST CONCRETE MANHOLE AS PER THE DESIGN AND CONSTRUCTION GUIDANCE WITH REFERENCE, COVER AND INVERT LEVELS

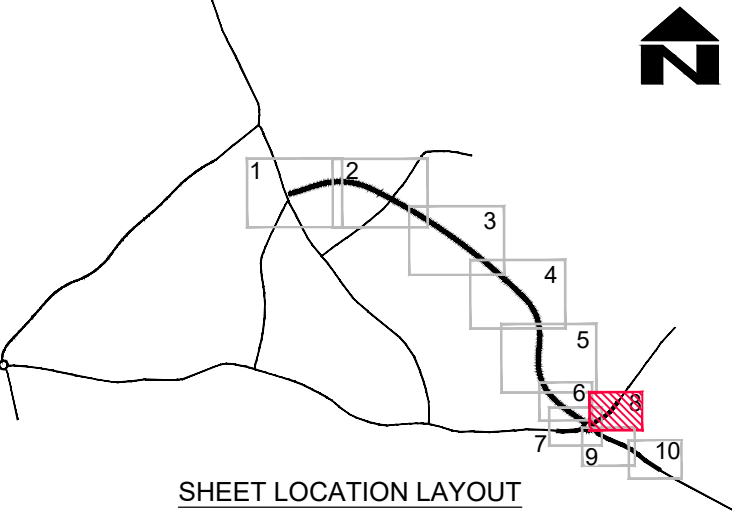
NI-FW-# PROPOSED FLOW WATER PIPE WITH FLOW DIRECTION AND PIPE DETAILS AS PER THE DESIGN AND CONSTRUCTION GUIDANCE (LINE THICKNESS INDICATES PIPE DIAMETER)

SW-MH-# PROPOSED SURFACE WATER PRECAST CONCRETE MANHOLE AS PER THE DESIGN AND CONSTRUCTION GUIDANCE WITH REFERENCE, COVER AND INVERT LEVELS

NI-SW-# PROPOSED SURFACE WATER PIPE WITH FLOW DIRECTION AND PIPE DETAILS AS PER THE DESIGN AND CONSTRUCTION GUIDANCE (LINE THICKNESS INDICATES PIPE DIAMETER)

FD-NI-## FILTER DRAIN WITH CONCRETE PROTECTION ABOVE THE PIPE. REFER TO DRAWING NO. C/J008882-ECH-HDG-44301694-DE-D-0005 FOR CONSTRUCTION DETAILS.

NFD-NI-## PROPOSED HIGHWAY SUB SURFACE DRAINAGE (NARROW FILTER DRAIN). FOR CONSTRUCTION DETAILS REFER TO DRAWING C/J008882-ECH-HDG-44301694-DE-D-0001 AND APPENDIX 5/1.



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

© CROWN COPYRIGHT AND DATABASE RIGHTS 2024
ORDNANCE SURVEY 100010180

D1	P07	FIT FOR COSTING	22.10.2024	SW	JGO	JGC
S3	P06	AMENDMENTS FOLLOWING ASSET MANAGEMENT CONSULTATION	04.10.2023	PM	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	JGO	
S3	P02	MINOR CHANGES TO CHAMBER LOCATIONS	28.01.2021	AB	JGO	GDC
SUIT	REV	AMENDMENTS	DATE	CAD	CHKD	APPD

HCC CAD FILE: C:\Users\xtpetswa\Hampshire County Council\Botley Bypass - EC Project Documents\CAD\01-WIP\03-Drawings\03-Drainage\C\008882-ECH-HDG-44301694-DR-D-0001-0010 DRAINAGE LAYOUT.dwg

CLIENT

HAMPSHIRE COUNTY COUNCIL
UNIVERSAL SERVICES DIRECTORATE
TRANSPORT IMPLEMENTATION

CONSULTANT



Hampshire County Council

Engineering Services

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

DESIGNER PM	SCALE @ A1 1:250	SCHEME BOTLEY BYPASS	DRAWING TITLE DRAINAGE LAYOUT
CAD SW	DATE 14.12.2020		
CHECKED JGO JGO	SHEET NUMBER 8 OF 10		
JOB NO. C_J008882.01		HCC CAD PLT: 22/10/2024 10:42:58	
APPROVED GDC GDC	DRAWING NUMBER CJ008882-ECH-HDG-44301694-DR- D -0008		SUIT D1
			REV P 07