DO NOT SCALE

NOTES

THE WORKS SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING SPECIFICATION.

THE LOCATION LINE & LEVEL OF ALL KNOWN EXISTING DRAINAGE PIPEWORK INDICATED ON THE DRAWINGS ARE APPROXIMATE AND FOR GUIDANCE PURPOSES ONLY.

IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THEIR EXACT LINE AND LEVEL, BY WAY OF HAND EXCAVATED TRIAL PITS, PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION WORKS ON SITE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND MAINTAIN THE STRUCTURAL INTEGRITY OF ALL ABOVE AND BELOW GROUND SERVICE INSTALLATIONS.

THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THROUGHOUT THE DURATION OF THE CONTRACT A FULL TRAFFIC MANAGEMENT SYSTEM TO ENSURE SAFE PASSAGE OF VEHICLES/PEDESTRIANS IN THE VICINITY OF THE WORKS. ALL TRAFFIC SIGNS, SIGNALS, BARRIERS ETC. SHALL BE IN ACCORDANCE WITH CHAPTER 8 OF THE TRAFFIC SIGNS MANUAL.

THE CONTRACTOR SHALL MAKE ADEQUATE PROVISION FOR DEALING WITH AND DISPOSING OF GROUND/SURFACE WATER ENCOUNTERED DURING EXCAVATIONS

ALL SOFT / HARD PAVED AREAS AFFECTED BY THE WORKS SHALL BE FULLY REINSTATED FOLLOWING THE INSTALLATION OF ALL DRAINAGE WORKS. ALL SURFACE MARKINGS AFFECTED BY THE WORKS SHALL BE FULLY REINSTATED.

ALL SURPLUS EXCAVATED MATERIAL SHALL BE DISPOSED IN A DESIGNATED AREA ON SITE.

UPON COMPLETION OF THE WORKS THE CONTRACTOR SHALL PROVIDE AS BUILT SETTING OUT CO-ORDINATE AND LEVEL INFORMATION.

PIPEWORK WITH LESS THAN 750mm OF COVER IN TRAFFICKED AREAS TO BE CONCRETE ENCASED. (BEDDING CLASS 2)

PIPEWORK WITH MORE THAN 750mm OF COVER TO HAVE CLASS S GRANULAR BED AND SURROUND.

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS TOGETHER WITH THE APPROPRIATE SPECIFICATION.

IT IS THE CONTRACTORS RESPONSIBILITY TO CHECK ALL DIMENSIONS ON SITE. DIMENSIONS MUST NOT BE SCALED FROM THIS DRAWING. ANY DISCREPANCIES TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT IN WRITING.

ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS NOTED OTHERWISE.

ALL LEVELS ARE IN METRES, UNLESS NOTED OTHERWISE.

LEGEND

- EXISTING FOUL SEWER
- PROPOSED FOUL DRAIN (TYPICALLY 100Ø UNLESS NOTED OTHERWISE)
- PROPOSED FOUL POLYPROPYLENE INSPECTION CHAMBER
- PROPOSED FOUL PRECAST CONCRETE MANHOLE
- SVP — PROPOSED SOIL VENT PIPE
- SS — PROPOSED STUB STACK
- SG — PROPOSED SHOWER GULLY
- GU — PROPOSED TRAPPED YARD GULLY
- SU — PROPOSED 'ACO' LINEAR DRAINAGE CHANNEL COMPLETE WITH ASSOCIATED SUMP OUTLET
- PROPOSED SURFACE WATER DRAIN (TYPICALLY 100Ø UNLESS NOTED OTHERWISE)
- PROPOSED SURFACE WATER POLYPROPYLENE INSPECTION CHAMBER
- RG — PROPOSED SURFACE WATER PRECAST CONCRETE MANHOLE
- RG — PROPOSED TRAPPED ROAD GULLY
- SU — PROPOSED 'ACO' LINEAR DRAINAGE CHANNEL COMPLETE WITH ASSOCIATED SUMP OUTLET
- SU — PROPOSED 'ACO' KERB DRAINAGE COMPLETE WITH ASSOCIATED SUMP OUTLET

NOTES

1. THE CONTRACTOR SHALL CHECK ALL EXISTING MANHOLE INVERT LEVELS PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORKS AND REPORT HIS FINDINGS BECK TO THE ENGINEER IN WRITING.
2. WHERE PROPOSED DRAINAGE PIPEWORK RUNS ARE IN CLOSE PROXIMITY TO THE NEW FOUNDATIONS, THE CONTRACTOR SHALL ALLOW FOR EXTENDING THE DEPTH OF NEW FOUNDATIONS IN LEAN MIX CONCRETE DOWN TO THE PROPOSED PIPE BEDDING LEVEL.
3. ALL FOUL OUTLET LOCATIONS ARE INDICATIVE AND AS SUCH WILL BE SUBJECT TO REVIEW UPON RECEIPT OF THE ARCHITECTS OUTLET SETTING OUT DRAWINGS.
4. RAINWATER DOWN SPOUT LOCATIONS ARE INDICATIVE AND AS SUCH WILL BE SUBJECT TO REVIEW UPON RECEIPT OF THE ARCHITECTS OUTLET SETTING OUT DRAWINGS.

Sub Sta

BREAK INTO EXISTING FOUL PUBLIC SEWER MANHOLE (REF, SJ37508101) WITH NEW 1500Ø CONNECTION. REFORM BENCHING TO SUIT NEW PIPEWORK ORIENTATION AND MAKE GOOD MANHOLE UPON COMPLETION. CONNECTION TO THE PUBLIC SEWER WILL BE SUBJECT TO A SECTION 106 AGREEMENT WITH WELSH WATER WHICH IS REQUIRED PRIOR TO THE COMMENCEMENT OF ANY CONNECTION WORKS.
CL 33.520
IL 29.295 (1500Ø)
IL 29.170 (Ex'150 TBC)
THE CONTRACTOR SHALL CONFIRM THE EXACT MANHOLE INVERT LEVEL PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORKS AND REPORT BACK TO THE ENGINEER IN WRITING.

EXISTING FOUL PUBLIC SEWER MANHOLE (REF, SJ37508102)
CL 33.520
IL Unknown

EXISTING SURFACE WATER HIGHWAYS MANHOLE
CL 33.600
IL 31.030

FULL REINSTATE THE EXISTING HIGHWAY AND ASSOCIATED KERBS UPON COMPLETION OF THE WORKS.

EXISTING 1500 VITRIFIED CLAY FOUL PUBLIC SEWER

ASH ROAD

CLEAR AREA FOR HGV MANEUVERABILITY TO DOCK LEVELING AREA TO BE CONFIRMED

PROPOSED 'ACO S100' LINEAR DRAINAGE CHANNEL 5020 (OVERALL DEPTH 251mm) COMPLETE WITH LOAD CLASS F900 GRATING.

PROPOSED 'ACO S100' LINEAR DRAINAGE CHANNEL S010 (OVERALL DEPTH 191mm) COMPLETE WITH LOAD CLASS F900 GRATING.

SMH 1.8
CL 33.130
IL 31.810 (1500Ø)
IL 31.510 (4500Ø)
IL 31.435 (5250)

SMH 5.0
SIPHONIC BREAK CHAMBER COMPLETE WITH 600mm x600mm OPEN GRATING
CL 33.005
IL TBC (Siphonic)
IL 31.905 (3000Ø)

SMH 1.9
CL 33.130
IL 31.865 (1500Ø)
IL 31.715 (3000Ø)
IL 31.640 (3750Ø)
IL 31.565 (4500Ø)

SMH 1.10
CL 33.130
IL 31.920 (1500Ø)
IL 31.770 (3000Ø)
IL 31.695 (3750Ø)

SMH 1.11
CL 33.130
IL 32.005 (1500Ø)
IL 31.855 (3000Ø)

SMH 1.12
CL 33.390
IL 32.250

SMH 6.0
SIPHONIC BREAK CHAMBER COMPLETE WITH 600mm x600mm OPEN GRATING
CL 33.000
IL TBC (Siphonic)
IL 31.900 (3000Ø)

SMH 1.7
CL 33.850
IL 31.810 (1500Ø)
IL 31.735 (2250Ø)
IL 31.510 (4500Ø)
IL 31.435 (5250Ø)

SMH 1.6
CL 33.720
IL 31.745 (1500Ø)
IL 31.370 (5250Ø)
IL 31.295 (6000Ø)

FMH 3.0
CL 33.985
IL 33.200 (Inlet)
IL 33.260 (Side In)
IL 33.185 (Outlet)

FMH 1.1
CL 33.830
IL 33.060 (Backdrop)
IL 32.485 (Backdrop)
IL 29.980 (1500)

SMH 4.0
SIPHONIC BREAK CHAMBER COMPLETE WITH 600mm x600mm OPEN GRATING
CL 34.040
IL TBC (Siphonic)
IL 33.015 (2250Ø)

FMH 2.0
CL 33.935
IL 32.735 (Inlet)
IL 32.795 (Side In)
IL 32.720 (Outlet

FMH 2.1
CL 33.935
IL 32.870 (Inlet)
IL 32.930 (Side In)
IL 32.855 (Outlet)

FMH 2.2
CL 33.935
IL 33.190 (Side In)
IL 33.135 (Outlet)

SMH 3.2
CL 33.595
IL 32.645

SMH 1.5
CL 33.695
IL 31.685 (1000)
IL 31.185 (6000)

PROPOSED 75m x 20m x 1m DEEP 'STORMBLOC' SURFACE WATER CELLULAR ATTENUATION SYSTEM TO ACHIEVE A STORAGE VOLUME OF 1375m³ TO CATER FOR THE 1 IN 30 YEAR STORM EVENT +20% FOR CLIMATIC CHANGE . FLOWS GENERATED BY STORMS IN EXCESS OF THE 30 YEAR RETURN PERIOD TO BE STORED ABOVE GROUND IN CAR PARK AND HARDSTANDING AREAS. VENT PIPE TO BE PROVIDED TO ATTENUATION SYSTEM (EXACT LOCATION TO BE AGREED). INSTALLATION TO BE IN ACCORDANCE WITH THE MANUFACTURES REQUIREMENTS.
CL 33.485 (Min. - Varies)
IL 32.180 (Top of Units)
IL 31.180 (Base of Units)

SMH 3.1
CL 33.700
IL 32.225 (1500Ø)
IL 32.150 (2250Ø)

FMH 1.2
CL 33.900
IL 30.565

SMH 3.0
CL 33.700
IL 31.355 (1500Ø)
IL 31.280 (2250Ø)
IL 31.205 (3000Ø)

SMH 10.0
CL 33.700
IL 31.475 (1500Ø)
IL 31.400 (2250Ø)

SMH 10.2
CL 33.400

PROPOSED 'ACO M1000' LINEAR DRAINAGE CHANNEL 20.0 (OVERALL DEPTH 250mm) COMPLETE WITH LOAD CLASS D400 GRATING.

SMH 2.7
CL 33.785
IL 32.930

SMH 2.6
CL 33.785
IL 32.675

PROPOSED 'ACO KERBDRAIN 305' KERB DRAINAGE SYSTEM.

SMH 1.13
CL 33.785
IL 32.930

NOTES
THE LAYOUT OF THE INTERNAL FOUL DRAINAGE FROM THE FOOD PROCESSING AREA HAS YET TO BE DETERMINED AND AS SUCH IS NOT REFERENCED ON THIS PLAN.

MATCH LINE - FOR CONTINUATION, REFER TO DRAWING NUMBER CL(19)02

MATCH LINE - FOR CONTINUATION, REFER TO DRAWING NUMBER CL(19)02

REV	DATE	BY	DESCRIPTION	CHK	APD
P3	20.01.16	DRL	ATTENUATION NOTE AMENDED.	MCH	MCH
P2	14.01.16	DRL	ENTRANCE ARRANGEMENT AMENDED. ISSUED FOR PLANNING.	MCH	MCH
P1	08.01.16	DRL	ISSUED FOR INFORMATION	MCH	MCH

DRAWING STATUS: PLANNING

Tier Consult Ltd.
Richmond House,
Sandpiper Court,
Chester Business Park,
Chester,
CH4 9QZ
Telephone: 01244 684900
Fax: 01244 684901
Email: info@tieruk.com

CLIENT: Village Bakery WELSH FAMILY BAKERS SINCE 1934

ARCHITECT: DESIGN AND PLANNING ASSOCIATES

PROJECT: NEW BAKERY AND OFFICES, ASH ROAD, WREXHAM INDUSTRIAL ESTATE

TITLE: PROPOSED FOUL AND SURFACE WATER DRAINAGE LAYOUT SHEET 1

SCALE @ SIZE:	CHECKED:	
1:250 @ A0	MCH	PJB
CAD FILE: –	DESIGN/DRAWN: DRL	DATE: NOV'15
PROJECT No: T/15/1688	DRAWING No: CL(19)01	REV: P3