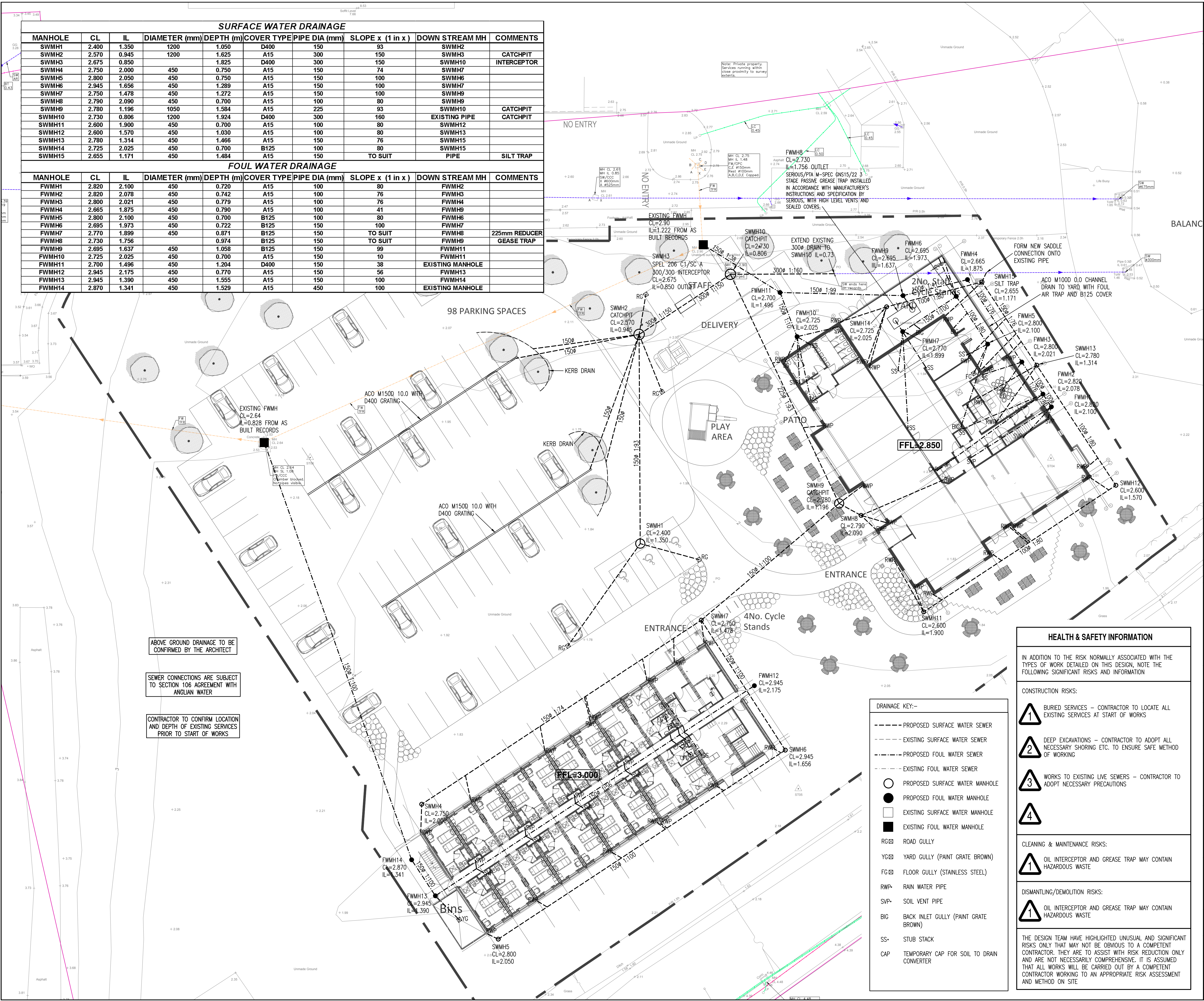


SURFACE WATER DRAINAGE									
MANHOLE	CL	IL	DIAMETER (mm)	DEPTH (m)	COVER TYPE	PIPE DIA (mm)	SLOPE x (1 in x)	DOWN STREAM MH	COMMENTS
SWMH1	2.400	1.350	1200	1.050	D400	150	93	SWMH2	
SWMH2	2.570	0.945	1200		A15	300	150	SWMH3	CATCHPIT
SWMH3	2.675	0.850		1.825	D400	300	150	SWMH10	INTERCEPTOR
SWMH4	2.750	2.000	450	0.750	A15	150	74	SWMH7	
SWMH5	2.800	2.050	450	0.750	A15	150	100	SWMH6	
SWMH6	2.945	1.656	450	1.289	A15	150	100	SWMH7	
SWMH7	2.750	1.478	450	1.272	A15	150	100	SWMH9	
SWMH8	2.790	2.090	450	0.700	A15	100	80	SWMH9	
SWMH9	2.780	1.196	1050	1.584	A15	225	93	SWMH10	CATCHPIT
SWMH10	2.730	0.806	1200	1.924	D400	300	160	EXISTING PIPE	CATCHPIT
SWMH11	2.600	1.900	450	0.700	A15	100	80	SWMH12	
SWMH12	2.600	1.570	450	1.030	A15	100	80	SWMH13	
SWMH13	2.780	1.314	450	1.466	A15	150	76	SWMH15	
SWMH14	2.725	2.025	450	0.700	B125	100	80	SWMH15	
SWMH15	2.655	1.171	450	1.484	A15	150	TO SUIT	PIPE	SILT TRAP

FOUL WATER DRAINAGE									
MANHOLE	CL	IL	DIAMETER (mm)	DEPTH (m)	COVER TYPE	PIPE DIA (mm)	SLOPE x (1 in x)	DOWN STREAM MH	COMMENTS
FWMH1	2.820	2.100	450	0.720	A15	100	80	FWMH2	
FWMH2	2.820	2.078	450	0.742	A15	100	76	FWMH3	
FWMH3	2.800	2.021	450	0.779	A15	100	76	FWMH4	
FWMH4	2.665	1.875	450	0.790	A15	100	41	FWMH6	
FWMH5	2.800	2.100	450	0.700	B125	100	80	FWMH6	
FWMH6	2.695	1.973	450	0.722	B125	150	100	FWMH7	
FWMH7	2.770	1.899	450	0.871	B125	150	TO SUIT	FWMH9	225mm REDUCER
FWMH8	2.730	1.756	450	0.974	B125	150	TO SUIT	FWMH9	GEASE TRAP
FWMH9	2.695	1.637	450	1.058	B125	150	99	FWMH11	
FWMH10	2.725	2.025	450	0.700	A15	150	10	FWMH11	
FWMH11	2.700	1.496	450	1.204	D400	150	38	EXISTING MANHOLE	
FWMH12	2.945	2.175	450	0.770	A15	150	56	FWMH13	
FWMH13	2.945	1.390	450	1.555	A15	150	100	FWMH14	
FWMH14	2.870	1.341	450	1.529	A15	450	100	EXISTING MANHOLE	



ABOVE GROUND DRAINAGE TO BE CONFIRMED BY THE ARCHITECT

SEWER CONNECTIONS ARE SUBJECT TO SECTION 106 AGREEMENT WITH ANGLIAN WATER

CONTRACTOR TO CONFIRM LOCATION AND DEPTH OF EXISTING SERVICES PRIOR TO START OF WORKS

- DRAINAGE KEY:-**
- PROPOSED SURFACE WATER SEWER
 - EXISTING SURFACE WATER SEWER
 - PROPOSED FOUL WATER SEWER
 - EXISTING FOUL WATER SEWER
 - PROPOSED SURFACE WATER MANHOLE
 - PROPOSED FOUL WATER MANHOLE
 - EXISTING SURFACE WATER MANHOLE
 - EXISTING FOUL WATER MANHOLE
 - RG ROAD GULLY
 - YG YARD GULLY (PAINT GRATE BROWN)
 - FG FLOOR GULLY (STAINLESS STEEL)
 - RWP RAIN WATER PIPE
 - SVP SOIL VENT PIPE
 - BIG BACK INLET GULLY (PAINT GRATE BROWN)
 - SS+ STUB STACK
 - CAP TEMPORARY CAP FOR SOIL TO DRAIN CONVERTER

HEALTH & SAFETY INFORMATION

IN ADDITION TO THE RISK NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DESIGN, NOTE THE FOLLOWING SIGNIFICANT RISKS AND INFORMATION

CONSTRUCTION RISKS:

- 1** BURIED SERVICES – CONTRACTOR TO LOCATE ALL EXISTING SERVICES AT START OF WORKS
- 2** DEEP EXCAVATIONS – CONTRACTOR TO ADOPT ALL NECESSARY SHORING ETC. TO ENSURE SAFE METHOD OF WORKING
- 3** WORKS TO EXISTING LIVE SEWERS – CONTRACTOR TO ADOPT NECESSARY PRECAUTIONS
- 4**

CLEANING & MAINTENANCE RISKS:

- 1** OIL INTERCEPTOR AND GREASE TRAP MAY CONTAIN HAZARDOUS WASTE

DISMANTLING/DEMOLITION RISKS:

- 1** OIL INTERCEPTOR AND GREASE TRAP MAY CONTAIN HAZARDOUS WASTE

THE DESIGN TEAM HAVE HIGHLIGHTED UNUSUAL AND SIGNIFICANT RISKS ONLY THAT MAY NOT BE OBVIOUS TO A COMPETENT CONTRACTOR. THEY ARE TO ASSIST WITH RISK REDUCTION ONLY AND ARE NOT NECESSARILY COMPREHENSIVE. IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING TO AN APPROPRIATE RISK ASSESSMENT AND METHOD ON SITE

Notes

GENERAL

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER ENGINEERS AND ARCHITECTS DRAWINGS AND THE SPECIFICATION. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORKS.
- ALL WORKMANSHIP AND MATERIALS ARE TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT EUROPEAN, CODES OF PRACTICE AND GOOD BUILDING PRACTICE.
- ALL WORK SHALL BE TO THE SATISFACTION OF THE ENGINEER AND THE LOCAL AUTHORITY.
- SETTING OUT DETAILS ARE SHOWN ON THE ARCHITECTS DRAWINGS UNLESS NOTED OTHERWISE. ENGINEERS DRAWINGS INDICATE STRUCTURAL ELEMENTS ONLY.
- DO NOT SCALE THIS DRAWING. ALL DIMENSIONS ARE IN MILLIMETRES. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE BEFORE CARRYING OUT ANY WORKS.
- ALL EXISTING DETAILS AND DIMENSIONS INDICATED ON THIS DRAWING ARE FOR GUIDANCE ONLY AND ARE TO BE CHECKED ON SITE BY THE CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR AND MUST TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THE STABILITY OF EXISTING STRUCTURES AND THE WORKS AT ALL TIMES DURING CONSTRUCTION.
- ALL SERVICES ARE TO BE LOCATED AND PROTECTED AS NECESSARY BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF THE WORKS.
- THIS DRAWING IS FOR THE PRIVATE AND CONFIDENTIAL USE OF THE CLIENT FOR WHOM IT WAS UNDERTAKEN AND IT SHOULD NOT BE REPRODUCED IN WHOLE OR IN PART OR RELIED UPON BY THIRD PARTIES FOR ANY USE WITHOUT THE EXPRESS WRITTEN AUTHORITY OF J P CHICK AND PARTNERS LIMITED.

DRAINAGE NOTES

- ALL PRIVATE DRAINAGE WORKS SHALL BE IN ACCORDANCE WITH THE BUILDING REGULATIONS APPROVED DOCUMENT H AND BRITISH STANDARD EN 752.
- PRIOR TO COMMENCEMENT OF THE WORKS THE CONTRACTOR SHALL LIASE WITH ALL RELEVANT AUTHORITIES TO OBTAIN THEIR REQUIREMENTS AND TO OBTAIN APPROVAL FOR HIS METHOD OF WORKING AND WHERE APPROPRIATE HIS INTENDED CHOICE OF MATERIALS.
- ALL MATERIALS, UNLESS OTHERWISE SPECIFIED, SHALL COMPLY WITH THE RELEVANT BRITISH STANDARD. SOURCES OF MATERIALS ARE TO BE AGREED WITH THE EMPLOYERS REPRESENTATIVE/ENGINEER IN ADVANCE OF THE WORKS.
- PRIOR TO COMMENCEMENT OF THE WORKS ALL DRAINAGE OUTFALL POINTS, WHETHER EXISTING SEWER, DRAIN OR WATERCOURSE, SHALL BE VERIFIED ON SITE BY THE CONTRACTOR IF THE OUTFALL POINT IS FOUND TO BE HIGHER OR SIGNIFICANTLY LOWER THAN SHOWN ON THE DRAWINGS THEN THE ENGINEER IS TO BE NOTIFIED (SIGNIFICANT REDUCTION OF DRAINAGE AND LEVELS MAY BE NECESSARY).
- ALL WORKS TO NEW OR EXISTING PUBLIC SEWERS SHALL BE TO THE APPROVAL OF THE WATER AUTHORITY AND IN ACCORDANCE WITH 'SEWERS FOR ADOPTION' THE LATEST EDITION.
- ALL COVER LEVELS SHOWN ON THIS DRAWING ARE APPROXIMATE. EXACT LEVELS OF NEW COVERS AND FRAMES TO BE DETERMINED ON SITE TO MATCH LEVEL AND PROFILE OF FINISHED SURFACE.
- ALL COVERS, GRATINGS AND FRAMES TO CHAMBERS, GULLIES, CHANNELS ETC. SHALL BE OF THE CORRECT LOAD CLASS TO SUIT THEIR LOCATION.
LOAD CLASS A15 PEDESTRIAN AREAS (NOT ACCESSIBLE BY VEHICLES).
LOAD CLASS B125 PRIVATE DRIVES.
LOAD CLASS C250 LIGHTLY TRAFFICKED ROADS.
LOAD CLASS D400 MAIN ROADS.
- THE CONTRACTORS ATTENTION IS DRAWN TO DIAGRAMS 7 AND 8 OF 'THE BUILDING REGULATIONS APPROVED DOCUMENT H' SHOWING DETAILS OF DRAINS LAD BELOW AND NEAR TO BUILDINGS WHERE GROUND BEING ARE USED THEIR LEVEL SHALL BE SET TO AVOID CLASHING WITH DRAIN CONNECTIONS.
- FOR THE EXACT LOCATION OF SOIL PIPES, STUBSTACKS W.C. 'S' AND OTHER DRAINAGE CONNECTIONS REFER TO M&E/ARCHITECTS DRAWINGS.
- ALL PIPES TO BE 100MM Ø 1:80 UNLESS NOTED OTHERWISE.
- ALL BEDDING AND SURROUND TO BE GRANULAR U.N.O. IN LANDSCAPED AREAS WHERE PIPES HAVE LESS THAN 900MM COVER PROVIDE CONCRETE BEDDING AND SURROUND. IN ROADS AND CAR PARKS PROVIDE CONCRETE BEDDING AND SURROUND WHERE COVER IS LESS THAN 900MM.

PRELIMINARY

Rev. Date By Amendment

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Barnes
CONSTRUCTION

Project
**MARSTON'S RESTAURANT/PH
GATEWAY
SPALDING**

Drawing Title
DRAINAGE LAYOUT

Scale 1:200 @ A1

Checked

Date

Date
JANUARY 2018

Drawn By
JBB

Drawing Number
IG17/198/200

Rev
P1

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