REFER TO DRAWING No. 4240241-1201 FOR OFF SITE S104 SEWER

INDICATIVE NORTH

RESTAURANT FFL 385.20m
REST BEND IL U.N.O 383.96m
ALL INTERNAL RUNS TO BE MAX. 1:40 U.N.O

FW4 MH 1200Ø CL 385.17 IL IN (100Ø) 383.68 IL OUT (150Ø) 383.60
FW7 MH 450Ø CL 385.18 IL 383.77
FW8 MH 1200Ø CL 385.15 IL IN (100Ø) 383.61 IL OUT (150Ø) 383.53
FW3 PIC 450Ø CL 385.19 IL 383.22
FW6 MH 450Ø CL 385.19 IL 383.40
FW9 MH 1200Ø CL 385.11 IL IN 383.05 IL OUT 383.02
FW1 PIC 450Ø CL 385.19 IL 383.73
FW2 PIC 450Ø CL 385.19 IL 383.65
FW5 MH 450Ø CL 385.17 IL 383.36
SW 03 600Ø CL 385.05 IL 384.00
SW 04 600Ø CL 385.06 IL 383.91
SW 12 600Ø CL 385.19 IL 383.40
SW 13 600Ø CL 385.19 IL 383.93
SW 01 1200Ø CL 384.95 150Ø IN IL 383.27 225Ø OUT IL 383.19
SW 11 600Ø CL 384.70 IL 383.57
SW 02 1200Ø CL 384.68 IL 383.13
SW 02A 1200Ø CL 384.68 IL 383.01
SW 05 1200Ø CL 384.24 IL 382.935
SW 06 HYDROBRAKE FLOW CONTROL CHAMBER DESIGN HEAD = 1.2m DESIGN FLOW = 5.5 l/s CHAMBER SIZE = 1200Ø CL 384.13 IL 382.90
SW 07 600Ø CL 383.86 IL 382.79
SW 08 HYDROBRAKE FLOW CONTROL CHAMBER DESIGN HEAD = 1.18m DESIGN FLOW = 5.5 l/s CHAMBER SIZE = 1200Ø CL 383.54 150Ø IL IN 382.68 150Ø IL OUT 382.00
SW 09 600Ø CL 383.37 IL 381.79
SW 10 600Ø CL 382.70 IL 381.52
SW16 (CCTV Ref.) CL. 384.87 IL. Unknown Depth. Unknown
SW6 (CCTV Ref.) CL. Unknown IL. Unknown Depth. 2.20m
SW8 (CCTV Ref.) CL. 382.41 IL. 381.11 Depth. 1.30m

FW PUMP STATION KIOSK WITH CONTROL PANEL AND HIGH LEVEL ALARM.
FW10 PRIVATE PUMPING CHAMBER 2600Ø GRP PUMP CHAMBER WITH TWIN PUMPS, HIGH LEVEL ALARM AND Ø90mm RISING MAIN. CONTROL PANEL LOCATED WITHIN KIOSK AS SHOWN. DISCHARGE RATE: 4.0 l/s COVER LEVEL = 385.05 FW INLET INVERT LEVEL = 382.90 GREASE INLET INVERT LEVEL = 382.62 BASE LEVEL = 380.35
90mm INTERNAL DIAMETER RISING MAIN
Sewers transferred to Welsh Water in 2011
Ø150mm
8" TRUNK WATER MAIN
18" TRUNK WATER MAIN
PROPOSED TANKED PERMEABLE PAVING WITH 350mm THICK SUB BASE AND 450mm WIDE TRENCH EXTENDED DOWN TO COLLECTOR PIPE.
PROPOSED TANKED PERMEABLE PAVING WITH 350mm THICK SUB BASE AND 525mm WIDE TRENCH EXTENDED DOWN TO COLLECTOR PIPE.
ACO LIPUMAX P-B NS7 GREASE SEPARATOR CL 385.15 IL IN 382.86 IL OUT 382.79 NOTE: ACO CONCRETE LOAD DISTRIBUTION PLATE TO BE INSTALLED, SUITABLE FOR D400 LOADING, IN ACCORDANCE WITH MANUFACTURER'S DETAILS
100Ø PERFORATED COLLECTOR PIPE INVERT LEVEL = 383.63
225Ø PERFORATED COLLECTOR PIPE BENEATH BIO RETENTION STRIP
BIO-RETENTION STRIP
SPEL 330C1ESR PETROL INTERCEPTOR 250mm THK. RC COVER SLAB AND SURROUND REQUIRED CL 384.68 IN IL 383.12 OUT IL 383.02
SDS HEAVY DUTY ATTENUATION TANK WITH Ø225mm PERFORATED COLLECTOR PIPE Cover Level = 384.50m (min.) Top of Tank = 383.75m Base of Tank = 383.00m SIZE 9m x 17m x 0.75m x 95% (VOID RATIO)
PROPOSED PERMEABLE PAVING SUB BASE TO EXTEND DOWN TO THE TOP OF THE ATTENUATION TANK.
WATER MAIN EXPECTED TO BE OVER 4m DEEP AND IS WELL BELOW THE PROPOSED SURFACE WATER DRAIN.
10m EASEMENT FOR 18" WATERMAIN
SuDS conveyance feature. Arrows show direction of surface water flows
EXISTING WELSH WATER 8" TRUNK WATER MAIN TO BE DIVERTED OUTSIDE OF THE SITE AS SHOWN.
PROPOSED BRANCH CONNECTION TO EXISTING HIGHWAY DRAIN.
Dye test from SW6 confirmed downstream sewer connects into SW17
INDICATIVE DIVERSION ROUTE FOR 8" TRUNK WATER MAIN, SEE WELSH WATER DETAILS
Location of downstream sewer to be confirmed
Althon Swale Inlet Headwall - 150 with a 1m length of rocks placed in front to prevent scour. IL 382.76
Althon Swale Inlet Headwall - 150 with a 1m length of rocks placed in front to prevent scour. IL 382.70
BIO-RETENTION AREA (RAIN GARDEN) CL (MIN.) 383.43m MAX. WL 383.01m IL OF ATTENUATION VARIES FROM 382.76m TO 382.70m IL OF FILTER MEDIUM FROM 382.16 TO 382.10m AREA 162.00m²
DRIVE THRU
CAR PARK
OVERHEAD CABLE
Garage
Station House
Aggregate
Asphalt
Grass
Shrubs/bark
Ø150mm

DRAINAGE KEY

- PROPOSED SURFACE WATER DRAINAGE PIPEWORK SHOWING LENGTH, PIPE DIAMETER AND GRADE
- PROPOSED SURFACE WATER PPIC CATCHPIT MANHOLE WITH 300mm SUMP
- PROPOSED SURFACE WATER PPIC CATCHPIT MANHOLE WITH 300mm SUMP
- PROPOSED SURFACE WATER PUMP MANHOLE
- OL ACO MONO DRAIN PD100D U.N.O 10.0 DRAINAGE CHANNEL (BLACK)
- OL ACO 305 KERB DRAIN - DRAINAGE KERB WITH ACCESS POINTS/OUTLETS
- LINED IMPERMEABLE HEAVY DUTY CELLULAR STORAGE POLYSTORM R OR SIMILAR APPROVED
- EXTENT OF TANKED PERMEABLE PAVING WITH LINED DRAINAGE SUMP & PERFORATED PIPE
- SPEL ESR TREATMENT UNIT WITH HARD WIRED ALARM TO MANAGER'S OFFICE
- PROPOSED BIO-RETENTION STRIP WITH CARRIER PIPE
- WEIR KERB ARRANGEMENT, SEE DRAWING 4240241-1300 &4240241-1301
- PROPOSED FOUL WATER DRAINAGE PIPEWORK SHOWING LENGTH, PIPE DIAMETER AND GRADE
- PROPOSED BUILDING FOUL WATER DRAINAGE MANHOLE, 1200Ø WITH TRADITIONAL BENCHING
- PROPOSED FOUL WATER PUMP MANHOLE
- TOILET RUNS UNDER BUILDINGS SHOWN BROWN
- PROPOSED GREASE WATER DRAINAGE PIPEWORK SHOWING LENGTH, PIPE DIAMETER AND GRADE
- PROPOSED GREASE WATER DRAINAGE INSPECTION CHAMBER
- ALARMED SPEL GREASE TRAP WITH HARD WIRED ALARM TO MANAGER'S OFFICE
- 110Ø DUCTS FOR GREASE TRAP/ CABLES TO INCOMING ELECTRICS CUPBOARD (MUST BE INSTALLED, CONNECTED AND COMMISSIONED BY THE GROUNDWORK CONTRACTOR PRIOR TO PRACTICAL HANDOVER)
- PROPOSED ADOPTABLE FOUL WATER RISING MAIN LATERAL.
- PROPOSED PRIVATE FOUL WATER RISING MAIN LATERAL.
- EXISTING SURFACE WATER SEWER

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS, DOCUMENTS AND SPECIFICATIONS. ANY DISCREPANCIES BETWEEN INFORMATION SHOWN ON THIS AND ANY OTHER DRAWING SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
2. DO NOT SCALE FROM THIS DRAWING. WORK TO FIGURED DIMENSIONS ONLY.
3. THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION PURPOSES UNLESS SPECIFICALLY STATED AS 'FOR CONSTRUCTION' IN THE DRAWING STATUS.
4. ALL DRAWING INFORMATION MUST BE READ FROM HARD COPY / PDF FILES ONLY, MARKED CHECKED. BEFORE PROCEEDING PLEASE ENSURE THE ISSUE STATUS IS APPROPRIATE FOR THE INTENDED USE. ALL INFORMATION EXTRACTED DIRECTLY FROM DRAWING FILES (E.G. DWG'S) IS DONE SO ENTIRELY AT THE USERS RISK.

DRAINAGE NOTES:

1. ALL DRAINAGE ALARM SYSTEM COVERING SPEL GREASE TRAPS AND TREATMENT UNITS MUST BE INSTALLED, CONNECTED AND COMMISSIONED SPEL PRIOR TO PRACTICAL HANDOVER OF THE STORE TO MCDONALD'S.
2. ALL DRAINAGE TO BE INSTALLED TO BUILDING REGULATIONS PART H AND/ OR SCOTTISH BUILDING REGULATIONS.
3. ALL DRAINAGE TO BS8582.
4. BUILDING INSPECTOR TO INSPECT ALL FOUL DRAINAGE INSTALLATION

KEY:

- APPLICATION BOUNDARY
- PROPOSED SITE LAYOUT
- TOPOGRAPHICAL SURVEY
- OS MAP
- EXISTING TRUNK WATER MAIN AND EASEMENT
- CRANE PAD LOCATION

Rev.	Description	Date	By	Chkd
C8	ACO KERB ADDED TO DRIVE-THRU	10.09.26	CDR	JC
C7	GREASE SEPARATOR & DRAINAGE AMENDED TO SUIT CONTRACTOR'S PREFERRED INSTALLATION METHOD	07.09.26	MCR	JC
C6	INTERNAL POP-UP LOCATIONS UPDATED	07.08.26	CDR	JC
C5	18" WATER MAIN POSITION UPDATED TO THE TRACE CARRIED OUT BY CONTRACTOR ON SITE. ALTHON SWALE INLETS AND FW RISING MAIN LOCATIONS UPDATED TO AVOID EASEMENT.	04.08.26	MCR	JC
C4	18" WATERMAIN POSITION UPDATED TO THE TRACE CARRIED OUT BY WELSH WATER. ALTHON SWALE INLETS MOVED OUT OF EASEMENT.	08.07.26	MCR	JC
C3	FW4 MOVED AWAY FROM PARKING BAYS.	03.07.26	MCR	JC
C2	DRAWING UPDATED TO SAB COMMENTS.	02.07.26	MCR	JC
C1	CONSTRUCTION ISSUE	12.06.26	MCR	JC
T1	TENDER ISSUE	27.05.26	MCR	JC
P1	FIRST ISSUE	22.05.26	MCR	JC

Glanville
Survey > Plan > Engineer
Civil Engineering | Highways Engineering | Structural Engineering | Building Surveying | Transport Planning | Geomatics
Hertfordshire | Oxfordshire | Cambridgeshire | Bristol

Client : McDonald's RESTAURANT

Project : McDONALD'S RESTAURANT
HEADS OF VALLEY ROAD, MERTHYR TYDFIL
CF48 2YG (ST2685)

Title : PROPOSED DRAINAGE LAYOUT

Engineer : CDR | Date : MAY 2026
Director : JC | Scale : 1:200 @ A1
Status : CONSTRUCTION ISSUE

Drawing No. 4240241-1200 | Rev C8