DO NOT SCALE

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M:\RCA Job Files\197 job\19787 - Residential Development at Former Clun Primary School, Clyne, Neath, SA11 4BW\F - RCA Civil Drawings\19787-03.dwg RCA Document Reference: RCA A1 Landscape Version 1

CONNECTION TO PUBLIC FOUL WATER SEWER CANNOT OCCUR UNTIL:

1. SECTION 104 ADOPTION AGREEMENT HAS BEEN LEGALLY COMPLETED (SIGNED AND SEALED BY DCWW).
2. SECTION 106 21 DAY NOTICE OF CONNECTION APPLICATION TO PUBLIC SEWER HAS BEEN APPROVED BY DCWW, INCLUDING NAMING OF THE CONNECTING CONTRACTOR (MEMBER OF HSE ENDORSED SAFE SCHEMES IN PROCUREMENT (SSIP).
3. ACCESS TO ASSET FORM COMPLETED AND ACCEPTED BY DCWW.
4. NECESSARY STREET WORKS LICENSES AND ANY OTHER RELEVANT APPROVAL IN PLACE.

NEW TERMINAL MANHOLE AS CONSTRUCTION DETAILS AT END OF RISING MAIN TO GRAVITATE FOUL WATER FLOWS INTO PUBLIC SEWER NETWORK

NEW PUMPED FOUL WATER RISING MAIN LAID BETWEEN EXISTING KERBLINE AND WATER MAIN PIPELINE – ALLOW FOR ALL NECESSARY CHECKS ON SITE TO DETERMINE WATER MAIN PIPELINE POSITION ALONG RISING MAIN ROUTE

NEW FOUL WATER FLOWS FROM DEVELOPMENT CONNECTED INTO EXISTING PUBLIC COMBINED SEWER – INVERT LEVEL TO BE CHECKED ON SITE – ALLOW FOR SECTION 106 21 DAY NOTICE OF CONNECTION APPLICATION TO DWR CYMRU FOLLOWING LEGAL COMPLETION OF SECTION 104 ADOPTION AGREEMENT INCLUDING ACCESS TO ASSET APPLICATION – CONNECTION UNDERTAKEN BY A SUITABLY QUALIFIED CONTRACTOR – REFER TO: http://www.dwrcymru.com/en/Developer-Services/Sewerage-Services/Contractor-Health-and-Safety-Information.aspx CONTRACTOR TO ALLOW FOR ALL NECESSARY STREETWORKS LICENSES FROM RELEVANT AUTHORITIES

90mm SDR17 HPPE RISING BLACK FOUL WATER RISING MAIN: RISE/FALL AS LONGITUDINAL SECTIONS WITH AIR AND WASH-OUT VALVE CHAMBERS (VALVE CHAMBER 40.300 TO TERMINAL MH 44.485) = 4.185m LENGTH FROM WET WELL CENTRE = 211.516m

PROVIDE NON-DEGRADABLE MARKER TAPE LAID 300mm ABOVE THE RISING MAIN TO ENTER THROUGH A COMPOUND AREA AND SHOULD BE TERMINATED WITH 1m OF WIRE COILED INSIDE THE VALVE CHAMBER FOR FUTURE TRACING, ETC.

DRAIN/SEWER PIPE DEFINITIONS:

100mmø < 1:100 CC
- CONCRETE SURROUND
- GRADIENT
- FLOW DIRECTION
- DIAMETER

FOUL WATER DRAINAGE MUST BE LAID AT A MAXIMUM GRADIENT OF 1:5 AND A MINIMUM GRADIENT OF 1:80 WHERE AT LEAST 1 WC OR 10 OR LESS DWELLINGS ARE CONNECTED, WHERE 11 DWELLINGS OF MORE ARE CONNECTED THE MINIMUM SEWER GRADIENT SHALL BE 1:150 – ALL SUBJECT TO RCA DESIGN

FOUL WATER SEWER CONNECTION PLAN EXTRACT

SCALE 1:250

FOR FOUL WATER CONNECTION – SEE PLAN EXTRACT

NEW JUNCTION MARKINGS AS CONSTRUCTION DETAILS

*CURRENT SPEED LIMIT OF 20 mph ASSUMED TO BE IN FORCE FOR FORMER SCHOOL AND WILL BE REINSTATED TO 30 mph – PROPOSED JUNCTION VISIBILITY BASED ON 30 mph SPEED LIMIT – MANUAL FOR STREETS

ALLOW FOR SECTION 184 APPLICATION TO NPTCBC FOR PROPOSED SITE ACCESS

BUS STOP LOCATION TO BE AGREED WITH NPTCBC IN RELATION TO PROPOSED SITE ACCESS

B4434 (30 mph LIMIT*)

ROAD No. 1

25m FORWARD VISIBILITY AREA – NO OBSTRUCTION HIGHER THAN 600mm ABOVE ADJACENT CARRIAGEWAY CROWN LEVEL

MAXIMUM 1:12 GRADING

NEW 225mmø LAND DRAINAGE CARRIER PIPELINE CONNECTED INTO EXISTING LAND DRAINAGE CHAMBER ON SITE

EXISTING MANHOLE CHAMBER REPORTED AS 600mm DEEP – SURFACE WATER OUTLET FROM FORMER SCHOOL SITE TO WATERCOURSE (IL 37.390)

EXISTING OUTLET AT HEADWALL REPORTED AS 225mmø

PLOT 21 & 22 DWELLING FOUNDATIONS TO EXTEND DOWN TO INVERT LEVEL OF LAND DRAINAGE PIPE TO AVOID SURCHARGING OF PIPE

3m POSSIBLE EASEMENT WIDTH FOR LAND DRAINAGE PIPELINE

225mmø LAND DRAINAGE CARRIER PIPELINE – PLOT 22 RIPARIAN OWNER

225mmø LAND DRAINAGE CARRIER PIPELINE – PLOT 7 RIPARIAN OWNER

3m POSSIBLE EASEMENT WIDTH FOR LAND DRAINAGE PIPELINE

PLOT 1
PLOT 2
PLOT 3
PLOT 4
PLOT 5
PLOT 6
PLOT 7
PLOT 8
PLOT 9
PLOT 10
PLOT 11
PLOT 12
PLOT 13
PLOT 14
PLOT 15
PLOT 16
PLOT 17
PLOT 18
PLOT 19
PLOT 20
PLOT 21
PLOT 22
PLOT 23
PLOT 24
PLOT 25
PLOT 26

SITE CROSS SECTION A–A

SITE CROSS SECTION B–B

SURFACE WATER FLOW ATTENUATION
HYDRO-BRAKE OPTIMUM FLOW ATTENUATOR ON WEIR WALL WITHIN 2.1mø CHAMBER SB5 AS CONSTRUCTION DETAILS

DESIGN HEAD = 2.426m
HYDRO BRAKE TYPE = OPTIMUM MD-SHE-0087-5000-2426-5000
DIAMETER = 87mmø
DESIGN FLOW = 5 litres/second

INSTALLED FULLY IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS – IF ANOTHER ATTENUATION DEVICE MANUFACTURER IS USED THEN RE-DESIGN WILL BE REQUIRED.

HIGH LEVEL OVERFLOW IN SB5 TO CONTROL FLOW TO 1:100+30% ALLOWANCE FOR CLIMATE CHANGE. PRIVATE OFFLINE STORAGE – FLAP VALVE ON RETURN INLET TO SB5 FROM SB9 – REFER TO CONSTRUCTION DETAILS

1:30 YEAR STORM +0% CLIMATE CHANGE ATTENUATED SURFACE WATER STORAGE VOLUME (OFF-LINE)
OVERALL 15x5x2m DEEP INCLUDING 1m WIDE TRENCH FOR 500mm SLOTTED DISTRIBUTION PIPELINE – STORAGE VOLUME ACHIEVED SDS GEOlight 400 STORAGE SYSTEM ALL WRAPPED WITHIN IMPERMEABLE MEMBRANE TO FORM WATER TIGHT TANK UNIT WITH VENTING – ALL INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS / DESIGN

WET WELL VENT PIPE – 100mmø GREY OSMA ABOVE GROUND DRAINAGE PIPE AS VENT PIPE TERMINATED AT TOP OF FENCE LEVEL/IN OSMA PVC-U GREY VENT COWL GY 110 4S310G – PIPEWORK BRACKETED TO NEAREST FENCE POST AND LOCATED 15m AWAY FROM NEAREST HABITABLE BUILDING AND 3m AWAY FROM CONTROL KIOSK

1:100 YEAR STORM +30% CLIMATE CHANGE ATTENUATED SURFACE WATER STORAGE VOLUME (OFF-LINE)
OVERALL 13x7x1.5m DEEP INCLUDING 1m WIDE TRENCH FOR 300mm SLOTTED DISTRIBUTION PIPELINE – STORAGE VOLUME ACHIEVED SDS GEOlight 400 STORAGE SYSTEM ALL WRAPPED WITHIN IMPERMEABLE MEMBRANE TO FORM WATER-TIGHT TANK UNIT WITH VENTING – ALL INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS / DESIGN

KIOSK WITH HARDSTANDING AREA, GENERATOR PAD AND METER ADJACENT HARDSTANDING

ADOPTED FOUL WATER PUMPING STATION

15m HAZARDOUS BUILDING EXCLUSION ZONE FROM FOUL WATER PUMPING STATION WET WELL

26 DWELLINGS DRAINED INTO TYPE 3 FOUL WATER PUMPING STATION TO COMPLY FULLY WITH SEWERS FOR ADOPTION 7TH EDITION AND ALL OTHER DCWW REQUIREMENTS – STORAGE BASED ON 160 LITRES PER DWELLING = 4160 LITRES (4.16 m3) WITH FURTHER ALLOWANCE +50% DUE TO NO EMERGENCY OVERFLOW = 2080 LITRES (2.08 m3) THEREFORE TOTAL VOLUME PROVIDED IN WET WELL = 6240 LITRES (6.24 m3) BELOW GRAVITY FOUL WATER SEWER INLET AND ABOVE HIGH LEVEL ALARM – 2700mmø WET WELL

PUMPING STATION COMPOUND FENCED AND GATED WITH 1.8m HIGH ANTI CLIMB MESH FENCING BY URBAN FENCING OR SIMILAR APPROVED BY DCWW, ALL FENCING TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS, CONTRACTOR TO AGREE AND FINISHES ETC. WITH DCWW PRIOR TO ORDERING MATERIALS – PROVISIONALLY ALLOW FOR GREEN COLOURING TO ALL ELEMENTS

ALLOW FOR COMMUNICATION (BT) AND 3 PHASE ELECTRICITY (WPD) SUPPLIES TO PUMPING STATION COMPOUND

ALLOW FOR ALL NECESSARY LIFTING DAVITS, SIGNAGE (CONFINED SPACE, ETC.), ETC. ALL TO DCWW DS REQUIREMENTS – TO BE AGREED ON SITE AND ALL TESTING CARRIED OUT OF DAVITS, ETC.

NOTES (CONTINUED)

ALL FIGURED LEVELS ARE RELATED TO LAND SURVEY DATUM AS RCA DRAWING NUMBER JOB NUMBER/01 UNLESS NOTED OTHERWISE.

ALL FIGURED DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

ALL WORKS SHALL BE IN ACCORDANCE WITH CURRENT RELEVANT SECTIONS OF:

* SPECIFICATION FOR HIGHWAY WORKS
* DESIGN MANUAL FOR ROADS AND BRIDGES
* LOCAL AUTHORITY HIGHWAY ADOPTION REQUIREMENTS
* SEWERS FOR ADOPTION 7th EDITION
* BUILDING REGULATIONS
* BRITISH STANDARDS
* NEW ROADS AND STREET WORKS ACT
* HEALTH AND SAFETY REGULATIONS
* GOOD PRACTICE

IT IS KNOWN THAT EXISTING UTILITY COMPANY UNDERGROUND SERVICES AND APPARATUS IS PRESENT WITHIN THE PROPOSED WORKS AREA THE CONTRACTOR SHOULD ALLOW FOR ALL NECESSARY INVESTIGATIVE WORK (CAT DETECTION, TRIAL HOLES, ETC.) TO DETERMINE ROUTE AND DEPTH OF ALL UNDERGROUND SERVICES TO AVOID DAMAGE AND PRESERVE SUPPLIES TO EXISTING DWELLINGS / PREMISES.

NOTES (CONTINUED)

ANY DISCREPANCIES IN INFORMATION CONTAINED IN THIS DRAWING & ANY PROPOSED ALTERATIONS TO ROAD ALIGNMENT OR DRAINAGE MUST BE REPORTED TO ENGINEER FOR REVISION AND AGREEMENT WITH RELEVANT AUTHORITY.

FOUL WATER & SURFACE WATER SEWER (3m MAXIMUM PIPE LENGTHS)

ALL PIPES AND FITTINGS FOR DIAMETER OF 100/110mm TO BE EITHER:

* JDP ULTRA3 UNDERGROUND DRAINAGE SYSTEM.
* MARLEY SOLID WALL UNDERGROUND DRAINAGE PIPE SYSTEM.
* OSMADRAIN BUILDING DRAINAGE SYSTEM.
* POLYPIPE EN1401-1 STANDARD UNDERGROUND DRAIN SYSTEM.
* OR SIMILAR APPROVED BY RELEVANT AUTHORITY AND/OR RCA.

ALL PIPES AND FITTINGS FOR DIAMETERS OF 150mm – 300mm TO BE EITHER:

* JDP ULTRA3 UNDERGROUND DRAINAGE SYSTEM.
* MARLEY QUANTUM SEWER SYSTEM.
* POLYPIPE CIVILS POLYSEWER SYSTEM.
* UPONOR ULTRA-RIB SYSTEM.
* WAVIN OSMA ULTRA-RIB SYSTEM.
* OR SIMILAR APPROVED BY RELEVANT AUTHORITY AND/OR RCA.

3m MAXIMUM LENGTH PVC-U PIPES INSTALLED BY BPF/PPG ACCREDITED CONTRACTOR – COPY OF CERTIFICATE REQUIRED.

USE OF DIFFERENT PIPE SUPPLIER, PIPE LENGTH OR SPECIFICATION MUST BE APPROVED BY THE STATUTORY UNDERTAKER – IF IN DOUBT ASK.

WHERE SPECIFIED AS PLASTIC CHAMBERS ON RCA CHAMBER SCHEDULES CHAMBERS MUST COMPLY WITH BS EN 13598-1 AND BS EN 13598-2 OR HAVE EQUIVALENT INDEPENDENT APPROVAL* (* TO BE AGREED WITH ADOPTING AUTHORITY). CHAMBERS TO BE EITHER JDP AXEDO INSPECTION CHAMBER SYSTEM, POLYPIPE POLYSEWER INSPECTION CHAMBER SYSTEM, OSMA INSPECTION CHAMBER SYSTEM, BRETT MARTIN ADOPTABLE CHAMBERS OR SIMILAR APPROVED BY RELEVANT AUTHORITY AND/OR RCA – CHAMBER SPECIFICATION MUST BE SUITABLE FOR PIPE DIAMETER, BURIAL DEPTH, LOCATION AND COVER LOADING – IF IN DOUBT ASK.

ALL PIPEWORK MANUFACTURED IN UNPLASTICIZED POLYVINYL CHLORIDE (PVC-U). PVC-U DRAINAGE SYSTEMS WITH FLEXIBLE JOINTS TO BS EN1401-1:1998, BS 4660 OR BS 5481. PVC-U PIPES INSTALLED BY BRITISH PLASTICS FEDERATION – PLASTIC PIPES GROUP – MANUFACTURER APPROVED INSTALLERS. PLEASE PROVIDE COPY OF CERTIFICATION TO RCA PRIOR TO LAYING ANY PIPEWORK.

WHEN SEWERS ARE LOCATED WITHIN A PUBLIC HIGHWAY, THE OUTSIDE OF THE SEWER SHOULD BE IN THE VEHICLE CARRIAGEWAY (NOT FOOTPATH) AND BE AT LEAST 1m AWAY FROM THE KERBLINE. THE OUTSIDE OF MANHOLE CONSTRUCTIONS SHOULD BE AT LEAST 0.5m AWAY FROM THE KERBLINE.

THE DEVELOPER MUST SELF-VET AND CERTIFY THAT THE DESIGN CRITERIA, MATERIAL STANDARDS AND WORKMANSHIP SPECIFICATIONS FOR THE PROPOSED POTENTIALLY ADOPTABLE SEWERS ARE IN ACCORDANCE WITH THOSE SET OUT IN "SEWERS FOR ADOPTION – A DESIGN AND CONSTRUCTION GUIDE FOR DEVELOPERS" 7th EDITION AND THE REQUIREMENTS OF THE STATUTORY UNDERTAKER DWR CYMRU WELSH WATER (DCWW) AND CONFIRM THE SAME IN WRITING TO THE ADOPTION AUTHORITY.

THE CONTRACTOR SHALL ENSURE THAT AN UP TO DATE COPY OF SEWERS FOR ADOPTION 7th EDITION TOGETHER WITH ALL ITS CURRENT DWR CYMRU WELSH WATER ADDENDUM AND WELSH GOVERNMENT MINISTERS' STANDARDS DOCUMENTS IS AVAILABLE ON SITE FOR COMPLIANCE.

THIS PROJECT HAS BEEN DESIGNED TO COMPLY WITH SEWERS FOR ADOPTION 7th EDITION AND WELSH GOVERNMENT MINISTERS' STANDARDS.

NOTES (CONTINUED)

PRIVATE DRAINAGE NOTES

ALL PIPEWORK SHALL BE uPVC COMPLYING WITH SEWERS FOR ADOPTION 7th EDITION, CESWI 6th EDITION AND ALL CURRENT RELEVANT BRITISH STANDARDS, BBA CERTIFICATES AND MANUFACTURERS RECOMMENDATIONS AND INSTALLED TO MEET THE SAME.

PROVIDE 150mm CONCRETE SURROUND WITH FLEXIBLE JOINTS WHERE SEWER PIPES HAVE LESS THAN 900mm COVER IN NON-ADOPTABLE TRAFFICKED AREAS. ALL OTHER DEPTH PIPELINES SHALL HAVE GRANULAR PIPE BED AND SURROUND AS DETAILS. IN NON-TRAFFICKED AREAS WHERE THERE IS NO RISK OF DAMAGE FROM GARDEN IMPLEMENTS (SURFACED PATHS) SHALL HAVE GRANULAR BED AND SURROUND AS DETAILS. WHERE THERE IS A RISK FROM GARDEN IMPLEMENT DAMAGE AND PIPELINE HAS LESS THAN 600mm COVER PROVIDE 50mm DP CONCRETE PAVING SLAB LAID ON 75mm GRANULAR PIPE BEDDING MATERIAL ABOVE CROWN OF PIPELINE.

ALL PRIVATE PATHS ASSUMED TO FALL ON TO SOFT LANDSCAPING AREAS.

ALL CONNECTIONS WITH ADOPTABLE FOUL WATER SEWERS SHALL BE CONNECTED SOFFIT TO SOFFIT.

ALL BRANCHES INTO BUILDINGS AND TO RAINWATER GULLIES SHALL BE 100mmø UNO.

ALLOW FOR PRECAST CONCRETE LINTELS BY STRESSLINE OR SIMILAR OVER PIPELINES THROUGH WALLS AND PIPE JOINTS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

ACO – PROVIDE A15 LOADING GRADE THRESHOLD DRAINAGE AT ALL LEVEL THRESHOLD OPENINGS BY ACO ACO OR SIMILAR APPROVED INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

CHANNEL – PROVIDE 250 LOADING GRADE DRAINAGE CHANNELS TO DRIVES / PARKING AREAS FALLING ON TO ADOPTABLE HIGHWAY AREAS BY ACO OR SIMILAR APPROVED INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

IMPORTANT

ALL FLOOR GULLIES SHALL BE RODDABLE AND ALL SOIL STACKS SHALL HAVE RODDING ACCESS FACILITY AT EACH FLOOR LEVEL FOR FUTURE MAINTENANCE.

NOTES:

THE PROPERTY OF THIS DRAWING AND DESIGN IS VESTED IN ROGER CASEY ASSOCIATES AND MUST NOT BE COPIED OR REPRODUCED IN ANY WAY WITHOUT THE WRITTEN CONSENT OF ROGER CASEY ASSOCIATES.

THE CONTRACTOR IS TO CHECK ALL LEVELS AND DIMENSIONS BEFORE WORK COMMENCES, AND ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY TO THE CONSULTANTS.

WORK TO FIGURED DIMENSIONS IN PREFERENCE TO SCALING.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER ROGER CASEY ASSOCIATES DRAWINGS AND SPECIFICATIONS AND ALL OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS RELATING TO THIS PROJECT.

KEY

tp	–	CURVE TANGENT POINT
DK	–	DROP KERBS TO FRONT & BACK FOOTPATH KERBLINES
DKT	–	DROP KERB CROSSING POINT WITH 6 WHOLE TACTILE PAVING SLABS TO EACH SIDE OF ROAD – TO BE MARSHALLS TACTILE BLISTER PAVING 400x400x65mm DP BUFF COLOURED OR SIMILAR APPROVED LAID ON 25mm DP CLASS 1 MORTAR (PAVING IN LIEU OF BASE AND WEARING COURSE TO FOOTPATH AREA) CROSSING POINT TO HAVE FLUSH BULLNOSED KERBS MAXIMUM STEP TO CARRIAGEWAY 6mm
	–	FOUL WATER SEWER
	–	SURFACE WATER SEWER
RM	–	PUMPED RISING MAIN
F1	–	FOUL WATER MANHOLE AND REFERENCE
S1	–	SURFACE WATER MANHOLE AND REFERENCE
YG	–	PLASTIC CONCRETE ENCASED YARD GULLY
G	–	PLASTIC CONCRETE ENCASED ROAD GULLY
L1	–	LAND DRAINAGE MANHOLE AND REFERENCE
	–	LAND DRAINAGE CARRIER PIPELINE
	–	PERFORATED LAND DRAINAGE PIPELINE
sl	–	STREET LIGHTING COLUMN

REV.	DESCRIPTION	DRAWN	CHECK	DATE
G	STREET LIGHTING ADDED	PWJL	RSC	02/08/19
F	DETAIL DESIGN FOR ADOPTION AGREEMENTS, ETC.	PWJL	RSC	25/07/19
E	UPDATED ARCHITECTURAL LAYOUT INSERTED LAND DRAINAGE PROPOSALS REVISED	PWJL	RSC	28/03/19
D	UPDATED ARCHITECTURAL LAYOUT INSERTED TRAFFIC CALMING FEATURE NOTED	PWJL	RSC	11/06/18
C	TREE PROTECTION NOTE ADDED	PWJL	RSC	08/03/18
B	JUNCTION VISIBILITY SPLAY INCREASED FOR 30 mph SPEED LIMIT REINSTATEMENT ALLOWANCE	PWJL	RSC	16/01/18
A	PLOTS 9 TO 14 REAR GARDEN RETAINING WALL REVISED	PWJL	RSC	29/11/17

DRAWING STATUS:

Technical Acceptance

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RESIDENTIAL DEVELOPMENT AT FORMER CLUN PRIMARY SCHOOL, CLYNE, NEATH SA11 4BW

DRAWING TITLE:
ENGINEERING SITE PLAN (DRAINAGE)

DRAWN BY:	DESIGN BY:	CHECKED BY:	DATE:
PWJL	PWJL	RSC	17/08/17

FILE NAME:	Slater, Clun Primary School, Clyne.dwg		
DATE RECEIVED:	20/06/2019	INSERTED BY:	PWJL

ORIGINAL DRAWING A1

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