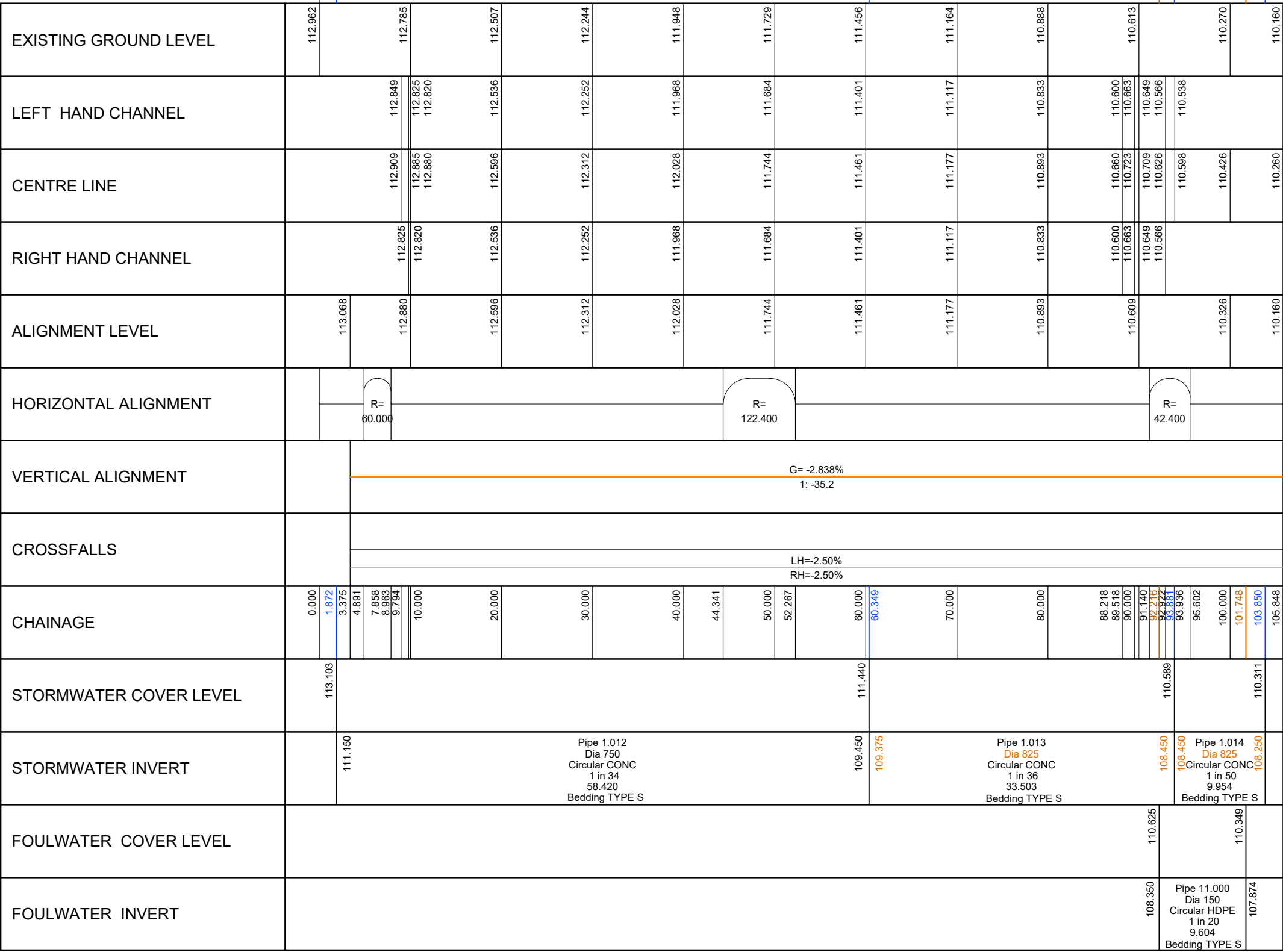
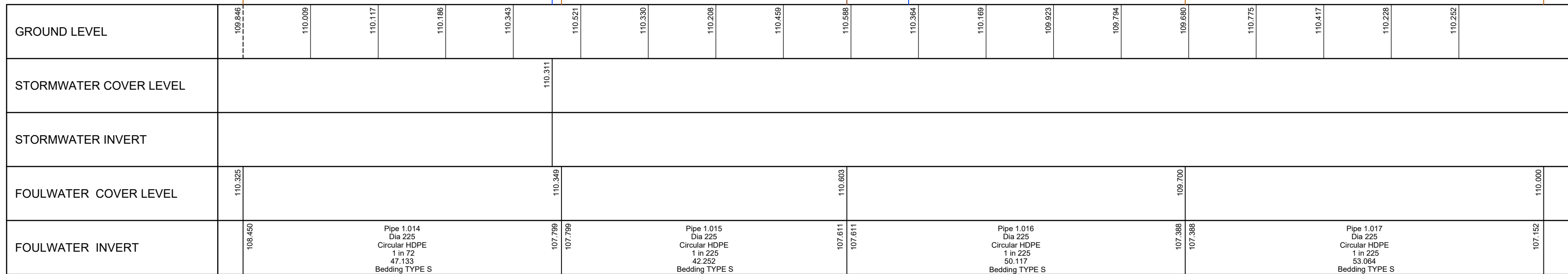


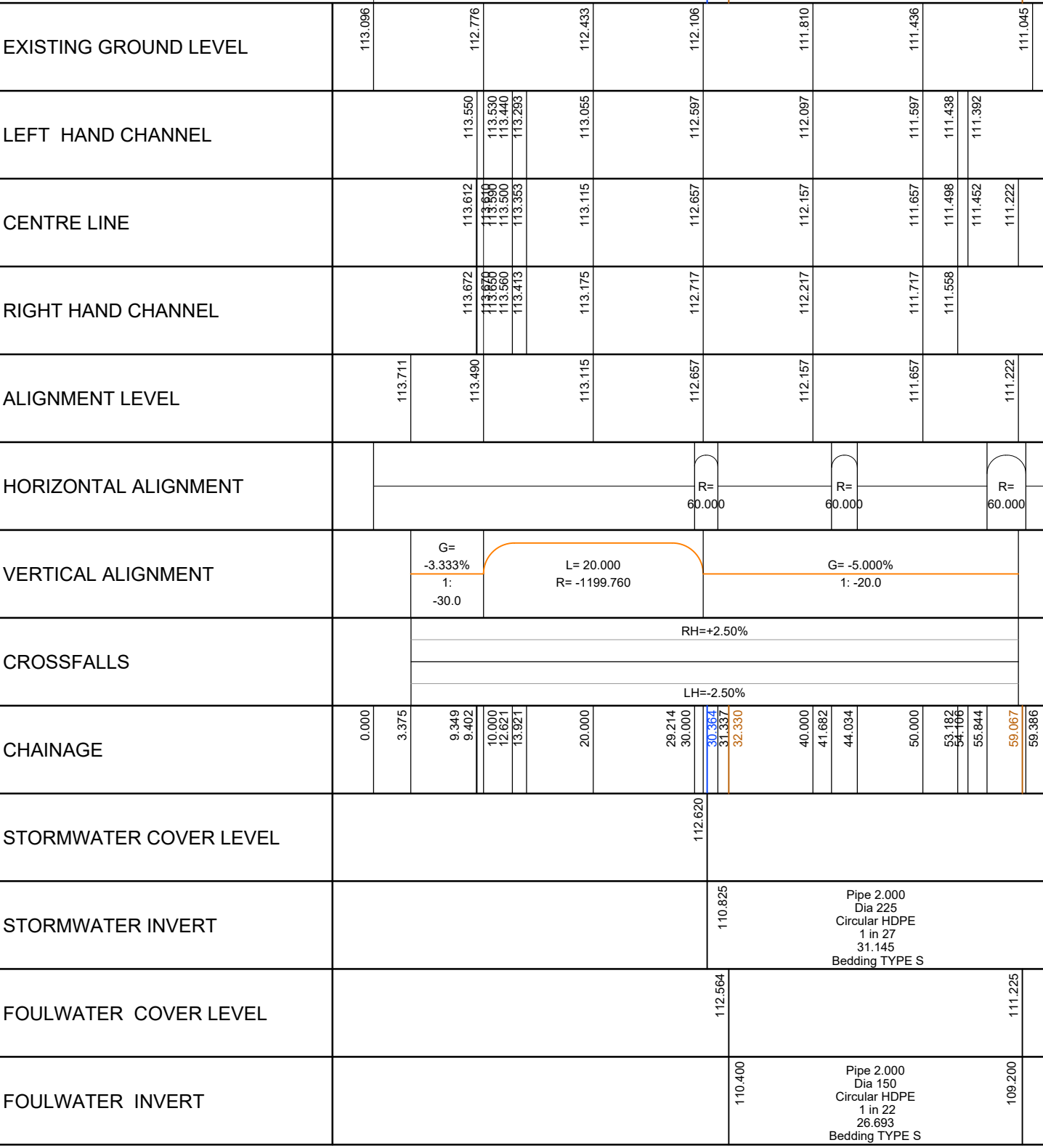
ROAD 8



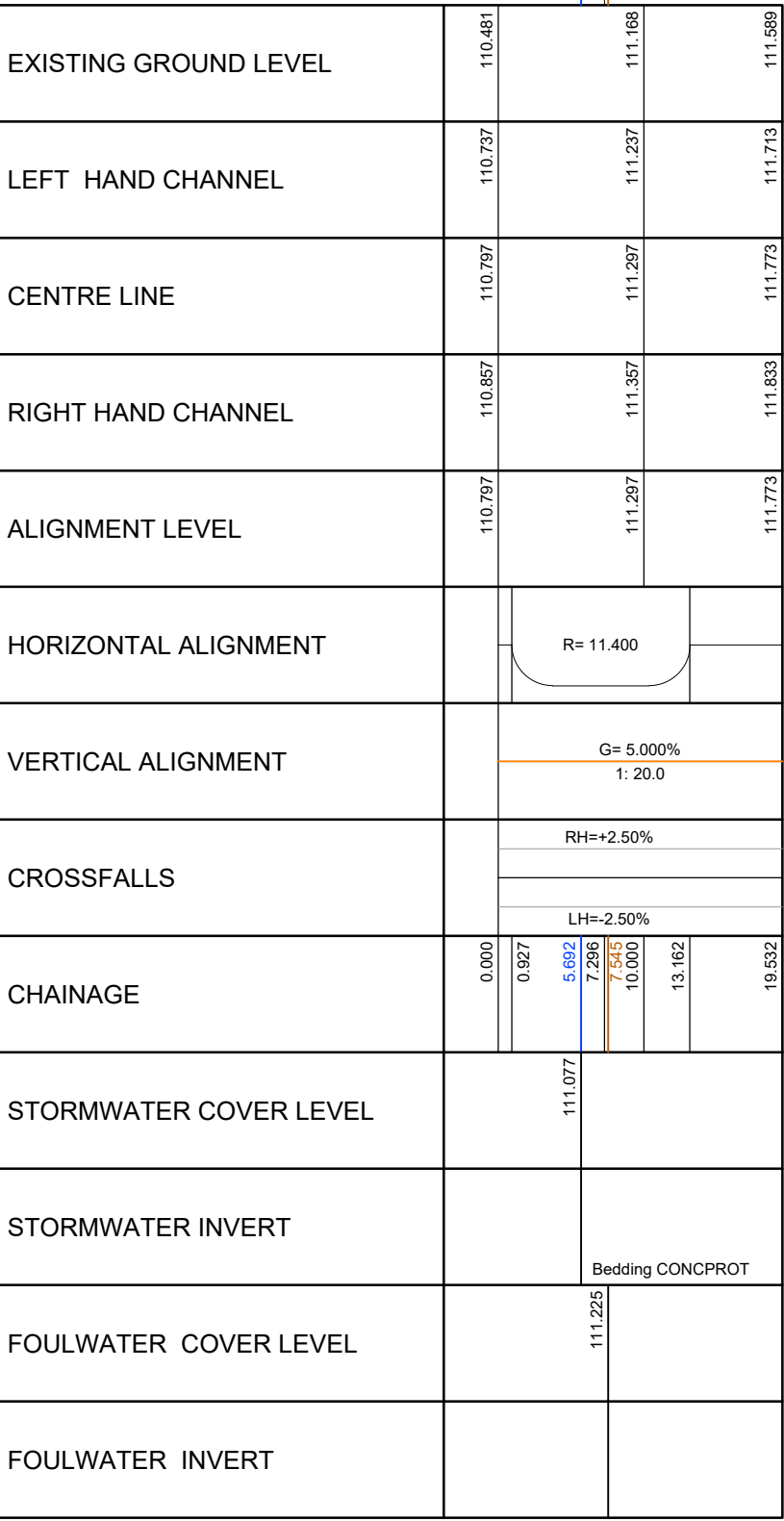
RD 8 TH TO FOUL OUTFALL



ROAD 10



ROAD 10B



GENERAL NOTES

1. THE CONTRACTOR SHALL CHECK ALL THE INS FOR LINE AND LEVEL WITH EXISTING BEFORE COMMENCING ANY WORKS SHOULD ANY ERRORS BE FOUND, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY IN WRITING. IT IS ESSENTIAL THAT ALL PIPE CONNECTIONS ARE CHECKED FOR LINE, LEVEL AND DIAMETER PRIOR TO COMMENCING WORKS. AS DATA ON THESE PIPELINES HAS BEEN OBTAINED FROM A VARIETY OF SOURCES WHICH MAY NOT BE NECESSARILY ACCURATE OR COMPLETE.
2. THE DEPICTION OF ANY SERVICE APPARATUS ON THIS DRAWING HAS BEEN OBTAINED FROM THIRD PARTY SOURCES, AND IS NOT NECESSARILY ACCURATE OR COMPLETE. AT NO TIME DOES THE INFERRED POSITION ON THE DRAWING ABSOLUTELY THE CONTRACTOR FROM TAKING ALL NECESSARY STEPS TO LOCATE SERVICE PLANT IN ACCORDANCE WITH THE METHODS SUGGESTED BY THE RELEVANT AUTHORITY. STEPHEN DAYKIN CONSULTING LTD WILL ACCEPT NO CLAIMS WHATSOEVER IN RESPECT OF ANY LOSSES OR DAMAGE CAUSED IN RESPECT OF SUCH APPARATUS, HOWEVER CAUSED.
3. SEWERS TO BE CONSTRUCTED IN ACCORDANCE WITH THE W.S.A PUBLICATION "SEWERS FOR ADOPTION", 6TH EDITION AND COMMON WATER COMPANY ADDENDUM AND SITE SPECIFIC ADDENDUM.
4. ALL BURIED CONCRETE PRODUCTS AND MORTAR TO BE MADE USING SULPHATE RESISTING CEMENT.
5. IMPORTED GRANULAR BACKFILL TO SEWER TRENCHES UNDER ROADS WILL BE REQUIRED, AND SHALL BE GS81 OR SIMILAR APPROVED.
6. ALL PIPE BEDS SHALL BE CLASS 5 GRANULAR BED AND SURROUND UNLESS OTHERWISE SPECIFIED. D.B.F. 2.5 ALL MATERIAL FOR GRANULAR BED AND SURROUND SHALL BE SINGLE SIZE ROUNDED GRANULAR MATERIAL.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXECUTE THE WORKS AT ALL TIMES IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE 1974 HEALTH AND SAFETY AT WORK ACT, AND THE 2015 CDM REGULATIONS. THE CONTRACTOR WILL BE DEEMED TO HAVE ALLOWED FOR FULL COMPLIANCE WITH THE SAME WITHIN HIS RATES, INCLUDING FULL LIAISON WITH THE PRINCIPAL DESIGNER.
8. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY DEWATERING AND TRENCH SUPPORT TO EXECUTE THE WORKS IN A SATISFACTORY MANNER AND SHALL BE DEEMED TO HAVE INCLUDED FOR THE SAME WITHIN HIS RATES.
9. ALL CONNECTIONS TO PUBLIC OR PROSPECTIVELY PUBLIC SEWERS SHALL BE: A) FOR PIPES UP TO AND INCLUDING 450MM DIA - BY PURPOSE MADE JUNCTIONS, OR B) FOR PIPES EXCEEDING 450MM NOMINAL INTERNAL DIAMETER - BY PURPOSE MADE SADDLES.
10. ALL PIPES TO BE LAID WITH SOFFITS LEVEL.
11. NO DEEP ROOTED TREES OR SHRUBS TO BE PLANTED WITHIN 5M OF A PUBLIC OR PROSPECTIVELY PUBLIC SEWER.
12. ALL SEWERS WITH LESS THAN 1.2M OF COVER SHALL HAVE A FULL CONCRETE BED AND SURROUND OR A PROTECTIVE CONCRETE SLAB SUBJECT TO THE PRESCRIPTIONS OF THE WATER COMPANY.
13. THE CONTRACTOR MUST ENSURE THAT THE GRADIENTS INDICATED ON THE LONG SECTIONS ARE CHECKED BETWEEN THE LEVELS SHOWN, PRIOR TO LAYING PIPES. AT NO TIME MUST THE CONTRACTOR PROCEED WITH PIPE LAYING BY GUALING IN THE GRADIENT SHOWN INTO THE LASER WITHOUT CHECKING ANY DISCREPANCY IN THIS RESPECT MUST BE REPORTED TO THE ENGINEER PRIOR TO PIPE LAYING.
14. IN THE EVENT OF THE ABOVE PROCEDURE NOT BEING FOLLOWED THE CLIENT WILL NOT ACCEPT RESPONSIBILITY WHATSOEVER FOR ANY CONSEQUENTIAL LOSS OR DAMAGES.

IWNL NOTES

1. ALL DRAINAGE OFFERED TO IWNL FOR ADOPTION HAS BEEN DESIGNED NOT TO ATTENUATE FLOWS IN EXCESS OF THE 130 YEAR RETURN STORM PERIOD.
2. A SECTION 106 CONNECTION APPLICATION WILL BE SOUGHT AND APPROVED PRIOR TO ANY CONNECTIONS TO THE PUBLIC NETWORK BEING MADE.
3. NO USE OF INFILL COVERS AND FRAMES IN BLOCK PAVED AREAS (SEE 2.9.6 SIA6 P2).
4. CATCHPIPS SHALL NOT BE ADOPTED.
5. EASEMENTS AT ANY CHANGE IN LINE SHOULD BE 2.5M TO EITHER SIDE OF THE PIPE FOR PIPE SIZE UP TO 300MM DIA AND 5M EACH SIDE OF THE CENTRE PIPELINE FOR PIPES 300MM DIA GREATER.
6. PROTECTIVE CONCRETE COVER SLABS TO BE USED ON PIPES IN NON TRAFFIC AREAS WHICH DO NOT ACHIEVE 0.9M/900MM COVER LEVEL, AND 1.2M/1200MM COVER IN TRAFFIC AREA.
7. WHERE PIPES ARE CROSSING, PLASTIC MEMBRANE TO BE USED FOR PROTECTION TO ELIMINATE ANY CHANCES OF CROSS CONTAMINATION.
8. ALL MANHOLE COVERS TO BE 675x750MM COVER AND FRAME TO MAINTAIN A CLEAR 600MM CLEAR OPENING, UNLESS OTHERWISE STATED, IN ACCORDANCE WITH BS EN 124 CLASS D400 AND EMBOSSED FW OR SW AS APPLICABLE.
9. PRECAST CONCRETE MANHOLE RINGS WILL NOT BE CUT UNDER ANY CIRCUMSTANCES. OTHER OPTIONS ARE TO BUILD UP THE MANHOLE WITH CONCRETE OR BRICK WORK TO THE TOP OF THE PIPE.
10. ALL COVERS AND FRAMES TO BE KITEMARKED.
11. PIPES OF DIFFERENT DIAMETERS ENTERING MANHOLES SHOULD BE INSTALLED WITH SOFFITS AT THE SAME LEVEL.
12. THE OUTSIDE OF THE SEWER SHOULD BE IN THE CARRIAGEWAY (NOT THE FOOTWAY) AND BE AT LEAST 1M FROM THE KERB LINE. THE OUTSIDE EDGE OF THE MANHOLE SHOULD BE AT LEAST 0.5M FROM THE KERB LINE.
13. NON DEGRADABLE MARKER TAPE IS TO BE LAID 300MM ABOVE THE TOP OF THE PIPES. RISING MAN SHOULD BE LAID IN STRAIGHT LINES, WHERE BENDS ARE USED, THEY SHOULD BE PREFORMED AND SECURELY ANCHORED WITH THRUST BLOCKS, IF REQUIRED.

PIPE MATERIAL NOTES

1. ALL ADAPTABLE SEWERS 300MM DIAMETER AND LESS SHALL BE HDPE PIPE SYSTEMS TO BS EN1228 AND BEDDED IN ACCORDANCE WITH BS EN 1228.
2. ALL CONCRETE PIPES SHALL BE CLASS 120 - TO EN 1916/BS 5911-1: 2002. ALL CONCRETE MANHOLES SHALL BE TO BS EN 1917 AND BS5911-3.
3. ALL PIPE BEDDING SHALL BE CLASS 5 COMPLETE GRANULAR SURROUND UNLESS OTHERWISE SPECIFIED. REFER TO SEWER STANDARD CONSTRUCTION DETAILS FOR CONFIRMATION OF ACCEPTABLE AGGREGATE SIZES.
4. ADAPTABLE PLASTIC SEWER PIPES SHOULD BE TO BS1 KITEMARKED (CERTIFIED TO WIS 4-35-01).
5. SHOULD THE CONTRACTOR WISH TO CHANGE ANY MATERIAL THIS WILL REQUIRE THE APPROVAL FROM THE ADOPTING AUTHORITY IN WRITING AND ANY PROPOSED CHANGE SHOULD SEEK APPROVAL PRIOR TO THE ORDERING OF ANY MATERIALS.

RISK ASSESSMENT

EXISTING SERVICES:

OPEN FIELD AREAS OVERHEAD SERVICES PRESENT - CLIENT TO PROVIDE INFORMATION FOR ANY EXISTING, INCLUDING OVERHEAD. EXISTING DOMESTIC SERVICES TO EXISTING FARMS IN CENTRE AND EASTERN BOUNDARY. THE POTENTIAL AREA FOR CONFLICT IS THE CONSTRUCTION OF THE ROAD ACCESS AND OUTFALL SEWERS WHICH MAY INTERFERE WITH UTILITY PIPES. RISK OF ELECTROCUTION, RISK OF EXPLOSION, RISK OF FLOOD, ALSO HIGHWAY AND RESIDENTIAL ACCESS FOR WESTFIELDS FARM AND TRACK, OUTFALL SEWER WILL NEED TO CROSS A47, TRAFFIC MANAGEMENT AND EXISTING SERVICES TO BE CONSIDERED.

EXISTING GROUND CONDITIONS:

SITE INVESTIGATION

SOFT TOPSOIL 0.2M-0.4M. In general, the intrusive investigation has confirmed the geology comprising variable granular and cohesive materials interpreted as drift deposits across the site. Granular drift deposits were encountered centrally and in particular centrally in the south that could be interpreted as the Walsdon Sand and Gravel. Further to this, granular materials were locally encountered in the north-east that could be interpreted as the Dunsmore Gravel. However, the drift deposits were found to be variable in nature. Due to the difficulties in interpreting the materials encountered, all drift deposits have been interpreted as the Walsdon Glauconitic Formation. Please see report for details.

FROM REPORT - ASL Report No. 092-24-087-10

FURTHER TO THIS, COLLAPSE WAS RECORDED AT SEVERAL TRIAL HOLES AND WAS TYPICALLY RECORDED IN ASSOCIATION WITH GRANULAR MATERIALS AND THE PRESENCE OF GROUNDWATER. THE FINDINGS OF THE INVESTIGATION HAVE LOCALLY SHOWN THE SHALLOW GROUND CONDITIONS TO BE SUBJECT TO SPALLING AND COLLAPSE, PARTICULARLY IN ASSOCIATION WITH GRANULAR MATERIALS AND GROUNDWATER INFLOWS.

SHALLOW EXCAVATIONS SHOULD REMAIN STABLE IN THE SHORT TERM HOWEVER, DEEPER EXCAVATIONS MAY BE PRONE TO COLLAPSE, PARTICULARLY IN ASSOCIATION WITH INFLOWS OF WATER WITHIN GRANULAR SOILS. CONSEQUENTLY, TEMPORARY SUPPORT SHOULD BE CONSIDERED FOR ALL EXCAVATIONS WHERE COLLAPSE IS TO BE AVOIDED, PARTICULARLY WHERE EXCAVATIONS EXTEND BEYOND 1.0M IN DEPTH. IN ACCORDANCE WITH CURRENT HEALTH AND SAFETY REQUIREMENTS, SHORING OR BATTERING BACK OF EXCAVATIONS IS REQUIRED IN ALL CASES WHERE ACCESS FOR PERSONNEL IS REQUIRED TO ENTER THOSE EXCAVATIONS WHENEVER THERE IS A RISK THAT COLLAPSE OF THE EXCAVATION COULD OCCUR. HEAVY DUTY CLOSED SHORING SHOULD BE PROVIDED FOR ANY EXCAVATION WHERE MAN ENTRY IS NECESSARY, IN COMPLIANCE WITH STATUTORY REQUIREMENTS, TO ENSURE SAFE WORKING CONDITIONS.

GROUND WATER - DURING THE INTRUSIVE INVESTIGATION, GROUNDWATER WAS RECORDED AT APPROXIMATELY HALF OF THE EXPLORATORY LOCATIONS AT DEPTHS OF BETWEEN APPROXIMATELY 0.8M AND 1.5M BGL. GROUNDWATER WAS TYPICALLY RECORDED ASSOCIATED WITH GRANULAR MATERIALS OR GRANULAR POCKETS WITH TYPICALLY COHESIVE MATERIALS. DURING THE SUBSEQUENT MONITORING PROGRAMME, GROUNDWATER WAS RECORDED AT ALL OF THE MONITORING INSTALLATIONS AT DEPTHS BETWEEN APPROXIMATELY 0.5M AND 1.8M BGL. AT WS116 AND WS102 RESPECTIVELY.

PERCHED WATER - Not known

GASING - BASED ON THE RESULTS OF THE GROUND GAS MONITORING, GAS PROTECTION MEASURES ARE NOT REQUIRED FOR THE PROPOSED DEVELOPMENT IN ACCORDANCE WITH BS 5485.

TRENCH STABILITY - SEE ABOVE.

CONTAMINATION - BASED ON THE RESULTS OF THE GROUND GAS MONITORING, GAS PROTECTION MEASURES ARE NOT REQUIRED FOR THE PROPOSED DEVELOPMENT IN ACCORDANCE WITH BS 5485.

ASPHYXIA, POISONING.

COSHH CONTROL MEASURES REQUIRED FOR ROAD AND SEWERAGE CONSTRUCTION RISK OF BURN, CHEMICAL BURN, CONTAMINATION, DISEASE.

TOPOGRAPHY - THE SITE FALLS FROM EAST TO WEST.

RISK ASSESSMENT

FALL RISKS - THOSE DETAILED BELOW

RISK TO EXISTING STRUCTURES - NO KNOWN STRUCTURES WITHIN THE DEVELOPMENT SITE. ADDITIONAL RISKS - THE SITE HAS MANY LARGE MATURE HEDGEROWS AND SOME TREES ON THE BOUNDARIES WHICH COULD FORM POTENTIAL FALL HAZARDS IF THEIR ROOT SYSTEMS ARE INTERFERED WITH OR EXCAVATIONS REMOVE GROUND SUPPORT. THE MAIN WATERCOURSE RUNS THROUGH THE SITE FROM SOUTH TO NORTH WITH ASSOCIATED DITCH COURSES AND THE RISK OF FALLS THERETO.

IDENTIFIED UNAVOIDABLE HAZARDS OR WORK SITUATIONS:

CONTACT WITH LIVE UTILITY SERVICES DURING ACCESS CONSTRUCTION AND OUTFALL SEWER CONSTRUCTION.

PLANT AND DELIVERY MOVEMENTS ON SITE AND WITHIN CONSTRAINED SITE ACCESS AREA.

THE TRAFFIC LEVEL ON THE ADJACENT ROADS SIGNIFICANTLY NORMANDY WAY, AND THE EXTENT TO WHICH TURNING CONSTRUCTION PLANT MAY CAUSE INCREASED ACCIDENT POTENTIAL.

ADVERSE TOPOGRAPHY- RISKS TO PLANT AND MATERIAL, STABILITY GENERAL, 1:15 GRADIENT.

WATER INGRESS INTO EXCAVATIONS FROM PERCHED LENSES.

TRENCH SUPPORT ADEQUATE TO DEAL WITH EXCAVATIONS THROUGH MADE GROUND AND VARIABLE SOIL PROFILES. ABNORMALLY DEEP FOUL SEWERAGE CONSTRUCTION NEAR TO PUMP STATION.

TRENCH CONTROL, REQUIRED TO DEAL WITH WATER BEARING STRATA.

POSSIBLE UNKNOWN BASEMENTS CELLARS TROUGHS OR OTHER UNDERGROUND STRUCTURES, ASSOCIATED WITH FORMER BUILDINGS.

WORKING IN CONFINED SPACES, SPECIFIC RISKS IN ALL TRENCHES, AND ESPECIALLY WITHIN DEEP ON SITE SEWERS INCLUDING THE PUMP STATION WET WELL, AND CONNECTIONS TO EXISTING SEWERS, RISK OF ELEVATED CO₂, RISK OF SUDDEN WATER OR FLOWING SOLIDS OR GASEOUS INGRESS.

WORKING IN PROXIMITY TO OR CROSSING EXISTING STRUCTURES, RISK OF PLANT INSTABILITY AND STRUCTURAL COLLAPSE.

DISEASE AND CONTAMINATION RISK ASSOCIATED WITH CONTACT WITH EXISTING SEWERAGE.

DISEASE RISK ASSOCIATED WITH WORKS ADJACENT TO WATERCOURSES (LEPTOSPIROSIS).

COSHH CONTROL MEASURES REQUIRED FOR ROAD AND SEWERAGE CONSTRUCTION RISK OF BURN, CHEMICAL BURN, CONTAMINATION, DISEASE.

ASPHYXIA, POISONING.

TOPOGRAPHY - THE SITE FALLS FROM EAST TO WEST.

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WARNING TO PURCHASERS. Property Misdescriptions Act 1991

Images and site layout are intended for illustrative purposes only and should be treated as general guidance only.

Site layout including parking arrangements, local affordable housing, community buildings, play areas and public open spaces may change to reflect changes in the planning permission for the development. Please speak to your solicitor to obtain full details of any planning constraints including layout plans and the availability.

Site layouts and landscaping are not intended to form part of any contract or warranty unless specifically incorporated in writing into the contract.

Rev	Description	Initial	Date
A	Updated to latest Arch Layout rev J rec 30.04.26	JW	08.06.26
B	Updated to LLFA comments rec 18.06.26 7500 pipe 1.012	JW	22.06.26
C	General update of sewer profiles following change of design parameters Aug 26	SWD	20.08.26

Rev	Description	Initial	Date

ROAD AND SEWER LONG SECTIONS HINCKLEY



Drawn No. H0997-314-07 Rev C
Scale 1:500 Date 12.03.26
Drawn by JW Checked by **

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