

GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS. DO NOT SCALE FROM THIS DRAWING. ALL DETAILS AND DIMENSIONS AND LEVELS ARE TO BE CHECKED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER.
2. ALL LEVELS ARE IN METERS & DIMENSIONS IN METERS UNLESS NOTED OTHERWISE.
3. DESIGN BASED ON TOPOGRAPHICAL & CCTV SURVEY AVAILABLE AT THE TIME OF DESIGN. ALL EXISTING SEWERS, CONNECTIONS, PIPE SIZES AND INVERT LEVELS TO BE CONFIRMED BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS TO ENSURE CONNECTIVITY. ANY VARIANCE FROM THE INFORMATION SHOWN SHOULD BE REPORTED TO THE ENGINEER FOR REVIEW.
4. ALL PROPOSED SEWERS TO BE 150mm UNLESS OTHERWISE STATED.
5. WHERE EXISTING DRAINAGE IS BEING USED, ALLOWANCES SHOULD BE MADE TO REMEDIATE THE DRAINAGE IN LINE WITH AVAILABLE CCTV SURVEY INFORMATION.
6. WHERE THERE IS NO REQUIREMENT TO KEEP EXISTING DRAINAGE, ALLOWANCES SHOULD BE MADE TO ABANDON THIS IN LINE WITH CURTINS DRAINAGE SPECIFICATION.
7. ALL INTERNAL DRAINAGE POINTS ARE SHOWN INDICATIVELY AND ARE TO BE DESIGNED AND SET OUT BY THE MAIN ENGINEER.
8. ANY DRAINAGE RUNS AND THEIR CONNECTIONS DAMAGED THROUGH CONSTRUCTION WORKS SHOULD BE REPLACED TO SUFFICIENT STANDARD. CURTINS ACCEPTS NO RESPONSIBILITY FOR DEFECTS OR INADEQUACIES OF EXISTING DRAINAGE SYSTEMS. LIABILITY OF SITE DRAINAGE DUE TO AN ISSUE WITH THESE NETWORKS ARE OUTSIDE OF OUR REMIT UNLESS SPECIFICALLY INSTRUCTED OTHERWISE.
9. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION PURPOSES.
10. EXISTING DITCH DIVERSIONS TO BE 1M WIDE AND 300-500mm IN DEPTH AS AGREED WITH THE LIA.
11. SITE SURFACE WATER DISCHARGE LIMITED TO QBAR (1.13m) AS AGREED WITH LIA.
12. FLOOD PUMPING STATION TO BE DESIGNED BY OTHERS AT LATER DESIGN STAGE. PROVISION OF 24-HOUR EMERGENCY STORAGE TO BE AGREED WITH BUILDING CONTROL AT LATER DESIGN STAGE. SECONDARY POWER SUPPLY AND SECONDARY PUMP TO BE PROVIDED.

- KEY:**
- SW00 - SURFACE WATER DRAIN
 - FW00 - SURFACE WATER CHAMBER
 - FW00 - FOUL WATER DRAIN
 - FW00 - FOUL WATER CHAMBER
 - FW00 - EXISTING SURFACE WATER SEWER
 - FW00 - SURFACE WATER CULVERT
 - FW00 - BYPASS SEPARATOR
- ORIFICE PLATES:**
- SW12 (OP) - ORIFICE PLATE: 150mm dia, INVERT LEVEL: 81.58m AOD
 - SW16 (OP) - ORIFICE PLATE: 150mm dia, INVERT LEVEL: 81.19m AOD
 - SW22 (OP) - ORIFICE PLATE: 150mm dia, INVERT LEVEL: 80.70m AOD
 - SW11 (OP) - ORIFICE PLATE: 150mm dia, INVERT LEVEL: 81.12m AOD
 - SW23 (OP) - ORIFICE PLATE: 150mm dia, INVERT LEVEL: 80.72m AOD
 - SW24 (OP) - ORIFICE PLATE: 150mm dia, INVERT LEVEL: 79.93m AOD
 - SW26 (OP) - ORIFICE PLATE: 150mm dia, INVERT LEVEL: 79.99m AOD
 - SW29 (OP) - ORIFICE PLATE: 150mm dia, INVERT LEVEL: 80.00m AOD
 - SW41 (OP) - ORIFICE PLATE: 150mm dia, INVERT LEVEL: 79.44m AOD
- HYDROBRAKES:**
- SW42 (HB) - HYDROBRAKE: Q (lit) 11.3, 150mm dia, 227, INVERT LEVEL: 78.60m AOD

- BELOW GROUND SURFACE WATER GEO-CELLULAR STORAGE
- BELOW GROUND SURFACE WATER ATTENUATION CONCRETE TANK WITH SUPPORT COLUMNS
- ABOVE GROUND SURFACE WATER STORAGE BASIN
- PERMEABLE SUB-BASE SUB-BASE TO COLLECT AND ATTENUATE FLOW, SHIMMING TO BE CONFIRMED AT DETAILED DESIGN PHASE
- PERMEABLE SUB-BASE: AREA: 936m², DEPTH: 300mm @ 95% VOID RATIO
- PERMEABLE SUB-BASE: AREA: 4776m², DEPTH: 300mm @ 30% VOID RATIO
- PERMEABLE SUB-BASE: AREA: 2000m², DEPTH: 300mm @ 30% VOID RATIO
- PERMEABLE SUB-BASE: AREA: 1450m², DEPTH: 300mm @ 95% VOID RATIO
- PERMEABLE SUB-BASE: AREA: 520m², DEPTH: 300mm @ 30% VOID RATIO
- PERMEABLE SUB-BASE: AREA: 630m², DEPTH: 300mm @ 30% VOID RATIO
- PERMEABLE SUB-BASE: AREA: 303m², DEPTH: 300mm @ 95% VOID RATIO
- PERMEABLE SUB-BASE: AREA: 1700m², DEPTH: 300mm @ 30% VOID RATIO
- PERMEABLE SUB-BASE: AREA: 685m², DEPTH: 300mm @ 30% VOID RATIO
- PERMEABLE SUB-BASE: AREA: 690m², DEPTH: 300mm @ 30% VOID RATIO
- PERMEABLE SUB-BASE: AREA: 94m², DEPTH: 300mm @ 30% VOID RATIO
- PROPOSED SWALE LOCATIONS AND DEPTHS TO BE CONFIRMED. ANTICIPATED DEPTH 300-500mm.
- PLANNING BOUNDARY
- EXISTING SURFACE WATER SEWER
- EXISTING LANDDRAINS TO BE RETAINED
- EXISTING LANDDRAINS TO BE DIVERTED
- PROPOSED DIVERTED LAND DRAIN

Rev	Description	Date	By	CHK
P05	UPDATED FOLLOWING COMMENT	11.11.19	LB	MS
P04	FOUL NETWORK ADDED	16.09.19	LB	MS
P03	UPDATED FOLLOWING COMMENTS	04.09.19	LB	MS
P02	FOR INFORMATION	28.08.19	LB	MS
P01	PRELIMINARY ISSUE	02.08.19	NMH	MS



PRELIMINARY				
Project: GREAT WOLF LODGE				
Title: PROPOSED DRAINAGE STRATEGY				
Size: A0	Date: 02.08.19	Drawn By: NMH	Designed By: MS	Checked By: MS
Scale: 1:500	Project No: 06535 - CUR - 00 - XX - DR - C -	Zone: 92000	Discipline: P05	Number: P05

