



SEPARATE OUTFALLS FROM THE PRINCES LOCH AND THE BASIN SYSTEMS WILL ENTER THE MILL LADE BURN.

IMPERMEABLE AREA NOTE:
 1. COMMERCIAL PLOTS ASSUMED TO HAVE 100% IMPERMEABLE AREA.
 2. RESIDENTIAL PLOTS ASSUMED TO HAVE 60% IMPERMEABLE AREA WITH AN ADDITIONAL 10% TO ACCOUNT FOR POSSIBLE URBAN CREEP.
 3. ROADS ASSUMED TO HAVE 100% IMPERMEABLE AREA.

BASIN SYSTEM WILL PROVIDE TREATMENT VIA A FILTERED LOW FLOW CHANNEL. IT WILL ALSO PROVIDE ATTENUATION FOR ALL FLOWS UP TO AND INCLUDING THE 30 YEAR+35% CC STORM EVENTS). THESE BASINS ARE PROPOSED TO BE ADOPTED AND MAINTAINED BY SCOTTISH WATER

BASINS NOTE:
 1. TOTAL ATTENUATION VOLUME REQUIRED: 5615m³
 2. TOTAL IMPERMEABLE AREA DRAINING TO BASIN: 17.39Ha
 3. ALLOWABLE DISCHARGE RATE - 145.60 l/s

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 3. ROADS ASSUMED TO HAVE 100% IMPERMEABLE AREA.

SURFACE WATER TREATMENT NOTE:
 1. ALL RESIDENTIAL PLOTS TO PROVIDE RELEVANT TREATMENT AT SOURCE TO ALIGN WITH THE POLLUTION MITIGATION INDICES REQUIRED AS IS BEST PRACTICE. A SECOND TREATMENT FEATURE WILL BE PROVIDED VIA THE FILTERED LOW FLOW CHANNEL THROUGHOUT THE BASIN SYSTEM.
 2. THE ROAD NETWORK OUTWITH THE PLOT BOUNDARIES WILL BE TREATED VIA ROAD SIDE FILTER TRENCHES AND THE FILTER MEDIA IN THE BASIN SYSTEM.

SURFACE WATER ATTENUATION NOTE:
 1. ALL RESIDENTIAL PLOTS AND ROADS WITHIN PHASE 2 WILL BE ATTENUATED TO THE AGREED DISCHARGE RATE OF 2.6 l/s/HA.
 2. ALL NECESSARY ATTENUATION WILL BE PROVIDED WITHIN THE 3 BASINS AND PRINCES LOCH UP TO THE 200 YEAR +35%CC.

COMMERCIAL AREAS NOTE:
 1. ALL COMMERCIAL PLOTS WILL PROVIDE APPROPRIATE SURFACE WATER TREATMENT AND ATTENUATION WITHIN THE RESPECTIVE PLOTS.
 2. A SITE WIDE DISCHARGE RATE BASED ON THE GREENFIELD RUNOFF HAS BEEN AGREED AS 2.6 l/s/HA. THIS WILL ALSO APPLY TO THE COMMERCIAL PLOTS THE COMMERCIAL PLOTS WILL HAVE A SEPARATE DISCHARGE POINT FROM THE REST OF THE DEVELOPMENT, CONNECTING TO THE MILL LADE BURN NORTH OF PLOT C1

PRINCES LOCH (SERVING AS ATTENUATION FOR ALL FLOWS FROM 30 YEAR STORM UP TO 200 YEAR +35% CC STORM EVENTS) FLOW FROM BASINS ENTER VIA OVERLAND DEPRESSIONS.
 THE LOCH IS A LANDSCAPE FEATURE THAT WILL HAVE A PERMANENT POOL OF WATER UNAFFECTED BY THE DRAINAGE SYSTEM. THIS LOCH AREA WILL BE PRIVATELY MAINTAINED.
 ATTENUATION VOLUME ABOVE PERMANENT WATER LEVEL: 5824m³
 APPROXIMATE DEPTH INCREASE DURING 200 YEAR EVENT: 0.30m

PLOT C1
 TOTAL AREA: 2.03Ha
 IMPERMEABLE AREA: 2.03Ha
 STORAGE REQUIREMENT:
 30 YEAR + 35% CC = 693m³
 200 YEAR + 35% CC = 1318m³
 ALLOWABLE DISCHARGE RATE: 5.29 l/s

COMMERCIAL PLOTS TO FLOW NORTH TO SEPARATE OUTFALL ON THE MILL LADE

WWPS NO.3
 FOUL DRAINAGE FROM ALL COMMERCIAL PLOTS / PLOT 4A & PLOT 11 TO DRAIN TO WASTE WATER PUMPING STATION 3 BEFORE BEING PUMPED UP BETWEEN PONDS 2 AND 3 IN PHASE 1 PRIOR TO FINAL CONNECTION TO A GRAVITY SYSTEM WITHIN THE ROAD.

PLOT C3 WEST
 TOTAL AREA: 0.70Ha
 IMPERMEABLE AREA: 0.70Ha
 STORAGE REQUIREMENT:
 30 YEAR + 35% CC = 239m³
 200 YEAR + 35% CC = 455m³
 ALLOWABLE DISCHARGE RATE: 1.83 l/s

PLOT C2
 TOTAL AREA: 1.02Ha
 IMPERMEABLE AREA: 1.02Ha
 STORAGE REQUIREMENT:
 30 YEAR + 35% CC = 349m³
 200 YEAR + 35% CC = 664m³
 ALLOWABLE DISCHARGE RATE: 2.66 l/s

PLOT C3 EAST
 TOTAL AREA: 2.16Ha
 IMPERMEABLE AREA: 2.16Ha
 STORAGE REQUIREMENT:
 30 YEAR + 35% CC = 737m³
 200 YEAR + 35% CC = 1401m³
 ALLOWABLE DISCHARGE RATE: 5.62 l/s

PLOT 4A
 TOTAL AREA: 3.64Ha
 IMPERMEABLE AREA: 2.55Ha
 STORAGE REQUIREMENT:
 30 YEAR + 35% CC = 868m³
 200 YEAR + 35% CC = 1650m³

PLOT 5A
 TOTAL AREA: 3.38Ha
 IMPERMEABLE AREA: 2.67Ha
 STORAGE REQUIREMENT:
 30 YEAR + 35% CC = 909m³
 200 YEAR + 35% CC = 1727m³

PLOT 5B
 TOTAL AREA: 4.46Ha
 IMPERMEABLE AREA: 3.12Ha
 STORAGE REQUIREMENT:
 30 YEAR + 35% CC = 1063m³
 200 YEAR + 35% CC = 2021m³

PLOT 9A / 9B
 TOTAL AREA: 5.10Ha
 IMPERMEABLE AREA: 3.57Ha
 STORAGE REQUIREMENT:
 30 YEAR + 35% CC = 1217m³
 200 YEAR + 35% CC = 2314m³

PLOT 6A / 6B
 TOTAL AREA: 6.75Ha
 IMPERMEABLE AREA: 4.72Ha
 STORAGE REQUIREMENT:
 30 YEAR + 35% CC = 1609m³
 200 YEAR + 35% CC = 3059m³

BLINDWELLS SCHOOL PLOT (DRAINING SEPARATELY THROUGH PHASE 1)

WWPS NO.4
 FOUL DRAINAGE FROM PLOT 6A, 6B AND FUTURE PHASE 3 PLOTS DRAIN TO WASTE WATER PUMPING STATION 4 BEFORE BEING PUMPED UP PASSED THE ACCESS TO PLOT 6 BEFORE JOINING THE GRAVITY FOUL SEWER IN THE ROAD BETWEEN THE SCHOOLSITE AND PLOT 6B.

ROAD NETWORK
 TOTAL AREA: 0.30Ha
 IMPERMEABLE AREA: 0.30Ha
 STORAGE REQUIREMENT:
 30 YEAR + 35% CC = 101m³
 200 YEAR + 35% CC = 191m³

Only figured dimensions to be used. Dimensions to be verified on site. Any discrepancies should be referred to the Engineer prior to work being put in hand.
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- ALL DIMENSIONS AND LEVELS ARE TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO PREPARING ANY WORKING DRAWINGS OR COMMENCING ON SITE.
- THE CONTRACTOR MUST ENSURE AND WILL BE HELD RESPONSIBLE FOR THE OVERALL STABILITY OF THE BUILDING/STRUCTURE/EXCAVATION AT ALL STAGES OF THE WORK.
- ALL WORK BY THE CONTRACTOR MUST BE CARRIED OUT IN SUCH A WAY THAT ALL REQUIREMENTS UNDER THE HEALTH AND SAFETY AT WORK ACT ARE SATISFIED.
- ALL WORK IS TO BE CARRIED OUT IN COMPLIANCE WITH THE REQUIREMENTS OF THE RELEVANT STATUTORY AUTHORITIES AND REGULATIONS.
- PLEASE REFER TO DRAWING 17684-WIE-92-ZZ-DR-C-0001 FOR THE DRAINAGE STRATEGY.

LEGEND

- DENOTES PROPOSED FOUL WATER PIPE
- DENOTES PROPOSED SURFACE WATER PIPE
- DENOTES PROPOSED PHASE 1 DRAINAGE
- DENOTES PROPOSED FOUL WATER RISING MAIN
- DENOTES PROPOSED ADOPTED BASIN

Rev	Date	Description	By
P06	30.03.21	AMENDED TO SUIT NEW BASIN CONFIGURATION	KK
P05	14.01.21	AMENDED AS REQUESTED	PM
P04	08.01.21	AMENDED AS PER CLIENTS COMMENTS	AG
P03	06.01.21	LEGEND ADDED	PM
P02	18.12.20	AMSC PLANNING ISSUE	PM
P01	27.11.20	DRAFT PLANNING ISSUE	CON

Project: **BLINDWELLS**

Title: **PHASE 2 DRAINAGE STRATEGY**

Client: **HARGREAVES SERVICES (BLINDWELLS) LTD**



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