



CONCRETE SPECIFICATION - LEACHATE TANK SLAB	
CONCRETE STRENGTH CLASS	C40/50
INTENDED WORKING LIFE	50 YEARS
DESIGN SULPHATE CLASS	N/A
ACEC CLASS	AC-4s
DC CLASS	DC-4
EXPOSURE CLASS	XC3/XC4
FREEZE THAW CLASS	XF4
NOMINAL COVER TO REINFORCEMENT	50mm
CHLORIDE CLASS	Cl 0, 40
MAXIMUM AGGREGATE SIZE	20mm
MAXIMUM WATER CEMENT RATIO	0.45
MINIMUM CEMENT CONTENT (kg/m ³)	360
CONSISTENCE CLASS	S3
MINIMUM CONCRETE DENSITY	2500
ALLOWABLE CEMENT COMBINATION TYPES	IIB +SR (DC-4)
MINIMUM AIR CONTENT	N/A
SPECIAL AGGREGATE TYPES	FREEZE THAW RESISTING
SAMPLING AND TESTING	REFER TO NOTES
ALL CONCRETE TO CONFORM TO BS 8500-2	
MIX DESIGN TO BE APPROVED BY WARDELL ARMSTRONG. CEMENT CONTENT AND W/C RATIO TO BE CONTROLLED TO REDUCE HEAT FROM HYDRATION.	

DO NOT SCALE FROM THIS DRAWING

GENERAL NOTES

- G01. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. ALL LEVELS ARE IN METRES AND RELATED TO ORDNANCE DATUM
- G02. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE RELEVANT SPECIFICATION AND ALL RELEVANT SUBCONTRACT DRAWINGS AND SPECIFICATIONS.
- G03. DO NOT SCALE FROM ANY DRAWING. WORK TO FIGURED DIMENSIONS ONLY. ANY DISCREPANCIES IN DIMENSIONS ARE TO BE REFERRED TO THE DESIGNER BEFORE WORK IS PUT TO HAND.
- G04. ALL DIMENSIONS AND LEVELS ARE TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO PREPARING ANY WORKING DRAWINGS OR COMMENCING ANY WORK. ANY DISCREPANCIES IN THE DETAILS SHOWN ON THIS DRAWING TO BE REPORTED TO ENGINEER PRIOR TO CONSTRUCTION.
- G05. FOR SETTING OUT INFORMATION REFER TO RELEVANT DRAWINGS.
- G06. THE CONTRACTOR IS TOTALLY RESPONSIBLE FOR STABILITY OF THE STRUCTURE AND EXCAVATIONS DURING THE CONSTRUCTION PERIOD, I.E. ITS TEMPORARY CONDITION. WHERE THE EFFECTS OF THE EXCAVATIONS ARE SUCH THAT WHERE THESE ARE SUPPORTED AND/OR RESTRAINED BY THE STRUCTURE THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CALCULATIONS FOR THE TEMPORARY STRUCTURE AND WHERE NECESSARY DETAILED MEMBER CHECKS FOR THE PERMANENT STRUCTURE. ALL ADDITIONAL WORK REQUIRED FOR THE TEMPORARY STABILITY OF THE STRUCTURE SHALL DEEMED TO BE INCLUDED BY THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE ON COMPLETION OF THE PERMANENT STRUCTURE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK THE PERMANENT WORKS FOR ANY LOADS APPLIED BY TEMPORARY WORKS.
- G07. ALL WORKS BY THE CONTRACTOR MUST BE CARRIED OUT IN SUCH A WAY THAT ALL REQUIREMENTS UNDER THE HEALTH AND SAFETY AT WORK ACT ARE SATISFIED.
- G08. ALL WORK IS TO BE CARRIED OUT IN COMPLIANCE WITH THE REQUIREMENTS OF THE STATE AUTHORITIES AND CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS.
- G09. ALL MATERIALS AND WORKSMANSHIP TO COMPLY WITH CURRENT BRITISH STANDARDS AND CODES OF PRACTICE

FOUNDATIONS

- FN1. THE FOUNDATIONS HAVE BEEN DESIGNED FOR THE LEACHATE TANKS ON 'BALMORAL TANKS' DRG "AG-MST-001 [A]".
- FN2. NO HOLES TO BE FORMED IN THE FOUNDATIONS WITHOUT PRIOR AGREEMENT WITH THE ENGINEER.

CONCRETE AND REINFORCEMENT

- R1. ALL MATERIALS AND WORKMANSHIP TO COMPLY WITH CURRENT BRITISH STANDARDS AND CODES OF PRACTICE.
- R2. ALL CONCRETE WORK TO BE IN ACCORDANCE WITH THE NATIONAL STRUCTURAL CONCRETE SPECIFICATION (NSCS) CURRENT EDITION.
- R3. FOR CONCRETE MIX REFER TO CONCRETE SPEC TABLE.
- R4. NOMINAL COVER TO REINFORCEMENT TO BE 50mm ALL SIDES.
- R5. REINFORCEMENT BARS SHALL BE IN ACCORDANCE WITH BS8006:2020 WITH YIELD STRENGTH OF 500N/mm² ALL WIRE MESH SHALL BE IN ACCORDANCE WITH BS4443:2005 WITH A MINIMUM YIELD STRENGTH OF 500N/mm² ALL HIGH YIELD BARS TO BE DEFORMED TYPE 2. BARS TO BE SECURED AT ALL INTERSECTIONS.
- R6. WHERE BARS OF A DIFFERENT DIAMETER LAP, THE LAP LENGTH FOR THE SMALL DIAMETER BAR IS TO BE USED.
- R7. CONTRACTOR TO PROVIDE ALL CHAIRS AND SPACERS IN ACCORDANCE WITH BS5973 PARTS 1 AND 2 TO ENSURE COVER IS MAINTAINED.
- R8. CONCRETE TO HAVE THE FOLLOWING FINISHES:
- TOP OF FOUNDATION: BASIC PLAIN/STEEL FLOAT FINISH: LIGHT PRESSURE TO BE USED INITIALLY TO ELIMINATE SURFACE IRREGULARITIES, THEN USE FIRM PRESSURE AFTER MOISTURE FILM HAS DISAPPEARED AND THE CONCRETE IS SUFFICIENTLY CURED TO PREVENT LANTIGE BEING WORKED TO THE SURFACE.
 - CAST POWER FLOATED FOLLOWED BY A LIGHTLY TAMPED FINISH IN DIAGONAL PATTERN TO FACILITATE SURFACE RUN-OFF.
- R9. REINFORCEMENT TO HAVE THE FOLLOWING MINIMUM LAP LENGTHS:
- | | |
|---------|---------|
| TOP: | |
| H12 | -700mm |
| H16 | -1000mm |
| BOTTOM: | |
| H12 | -500mm |
| H16 | -700mm |
- R10. REFER TO BAR SCHEDULES ST21061-BBS-150-01
- R11. ABBREVIATIONS / BAR ANNOTATIONS
- '1' IS THE HIGHEST LAYER IN RELATION TO COVER
'15' IS THE LOWEST LAYER IN RELATION TO COVER

FORMATION AND TESTING

- PT1. THE DESIGN OF THE FOUNDATIONS IS BASED UPON AN ALLOWABLE BEARING PRESSURE OF 75kPa. FOUNDING ONTO CLAY AND NOT WITHIN MADE GROUND/FILL MATERIAL.
- PT2. THE CONTRACTOR SHALL UNDERTAKE HORN SHEAR VANE TESTS AT FORMATION LEVEL TO VERIFY THE SUITABILITY OF THE FOUNDING STRATA. THE HORN SHEAR VANE TESTS SHALL BE UNDERTAKEN AT FORMATION LEVEL ACHIEVING A MINIMUM SHEAR STRENGTH OF 60kPa.
- PT3. CONCRETE CUBES TO BE TAKEN AT A RATE OF 3 CUBES PER 20m², AND NOT LESS THAN 1 SET OF 3 FOR EACH DAY. CUBES TO BE TESTED IN CONFORMANCE WITH BS 1881 PART 1 AT 7 AND ANOTHER AT 28 DAYS. THE THIRD IS A SPARE TO BE KEPT FOR A MINIMUM OF 3 MONTHS.

A	CONSTRUCTION ISSUE		21/08/24	DG	SRB	ARM
REVISION	DETAILS		DATE	APPROVED	CHD	WFO
CLIENT						
WEST LONDON COMPOSTING						
PROJECT						
PERMIT VARIATION WEST LONDON						
DRAWING TITLE						
<p style="text-align: center;">GA & RC DETAILS OF PROPOSED LEACHATE STORAGE TANKS FOUNDATION SLAB</p>						
DRG No.			REV	SUIT CODE		
ST21061-150			A			
DRG SIZE	SCALE	DATE				
A1	AS SHOWN	AUG/2024				
DRAWN BY	CHECKED BY	APPROVED BY				
DG	NA & SRB	AMW				
						