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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------------|--|------------|
| <b>NOTES:</b>                                                                                                                                                                      |     |      |            |  |            |
| For setting out refer to Architect's drawings.                                                                                                                                     |     |      |            |  |            |
| This drawing is to be read in conjunction with all other Architectural and Engineering drawings and all other relevant drawings and Specifications.                                |     |      |            |  |            |
| DO NOT SCALE THIS DRAWING. Figured dimensions only to be used in all cases.                                                                                                        |     |      |            |  |            |
| Verify dimensions on site and report any discrepancies immediately.                                                                                                                |     |      |            |  |            |
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| T03                                                                                                                                                                                | BP  | AS   | FOR TENDER |  | 04.09.2026 |
| T02                                                                                                                                                                                | BP  | AS   | FOR TENDER |  | 03.05.2024 |
| T01                                                                                                                                                                                | BP  | AS   | FOR TENDER |  | 27.11.2023 |
| Rev                                                                                                                                                                                | Drn | Chkd | Amendments |  | Date       |

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| Rev | Drm | Chkd | Amendments | Date |
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| <div style="border: 2px solid black; border-radius: 15px; padding: 10px; text-align: center; width: fit-content; margin: 0 auto;"> <p>FOR<br/>TENDER</p> </div> |  |    |
| Drawing Sheet Size                                                                                                                                              |  | A1 |

| BRIEF STRUCTURAL REPAIR SUMMARY                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.                                                                                                                                                                                                                                                                                                                                                         | <b>EXPPOSED CONCRETE REPAIR.</b> THE HIGHLIGHTED AREAS OF EXISTING EXPOSED CONCRETE COLUMNS AND BEAMS ARE TO BE TAP TESTED TO CHECK FOR LOOSE AND DEBONDING CONCRETE. THIS TEST WILL INDICATE WHERE BREAKING OUT AND A DETAILED CONCRETE REPAIR IS NECESSARY. SEE DETAILED CONCRETE REPAIR SPECIFICATION BELOW. FOR PRICING PURPOSES:                                            |
|                                                                                                                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>• ASSUME 20% OF THE TOTAL HIGHLIGHTED REQUIRE THE FULL DETAILED CONCRETE REPAIR, AS PER OUR ADJACENT SPECIFICATION.</li> <li>• ASSUME 100% OF THE TOTAL HIGHLIGHTED AREA WILL HAVE THE PROTECTIVE PAINT LAYER APPLIED</li> </ul>                                                                                                          |
| 2.                                                                                                                                                                                                                                                                                                                                                         | <b>MASONRY CRACK REPAIR.</b> SEPARATE TO THE CONCRETE REPAIR MENTIONED ABOVE, A NUMBER OF MASONRY CRACK REPAIR IS REQUIRED. THIS IS A COMBINATION OF EXTERNAL AND INTERNAL CRACK REPAIR. THE EXACT LOCATIONS WILL BE INDICATED AT SITE COMMENCEMENT STAGE. HOWEVER FOR PRICING PURPOSES ALLOW FOR THE FOLLOWING AMOUNTS:                                                         |
| INTERNAL BLOCKWORK CRACK REPAIR - 40 LINER METRES OF BLOCKWORK CRACK REPAIR                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                  |
| EXTERNAL BRICKWORK CRACK REPAIR - 20 LINER METRES OF BRICKWORK CRACK REPAIR                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                  |
| CONCRETE REPAIR WORKS SHALL BE CARRIED OUT USING AN ENGINEERED STAINLESS STEEL HELICAL BAR CRACK-STITCHING SYSTEM INSTALLED IN ACCORDANCE WITH THE SYSTEM MANUFACTURER'S PUBLISHED TECHNICAL GUIDELINES AND INSTALLATION DETAILS.                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                  |
| DETAILED CONCRETE REPAIR SPECIFICATION                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                  |
| PRE-WORKS                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                  |
| 1.                                                                                                                                                                                                                                                                                                                                                         | PRIOR TO COMMENCING REPAIR, GATHER ALL MATERIALS AND EQUIPMENT TO COMPLETE THE WORKS. REVIEW THIS METHOD STATEMENT AND ALL MATERIAL DATA SHEETS, REQUEST ANY ADDITIONAL INFORMATION REQUIRED AND SATISFY ANY UNKNOWNNS.                                                                                                                                                          |
| 2.                                                                                                                                                                                                                                                                                                                                                         | CLOSE OFF THE WORKS AREA.                                                                                                                                                                                                                                                                                                                                                        |
| 3.                                                                                                                                                                                                                                                                                                                                                         | ERECT WARNING SIGNS TO PREVENT LATER USE WHILE WORKS ARE OCCURRING.                                                                                                                                                                                                                                                                                                              |
| 4.                                                                                                                                                                                                                                                                                                                                                         | ERECT SAFE ACCESS TO PERIMETER OF SCHOOL BUILDING TO ALLOW INSPECTION OF EXISTING PRECAST CONCRETE ELEMENTS.                                                                                                                                                                                                                                                                     |
| 5.                                                                                                                                                                                                                                                                                                                                                         | CARRY OUT TAP TEST AND VISUAL INSPECTION SURVEY OF ALL PRECAST CONCRETE ELEMENTS TO IDENTIFY LOOSE AND CRACKED AREAS REQUIRING REPAIR.                                                                                                                                                                                                                                           |
| REMOVAL OF LOOSE CONCRETE                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                  |
| 6.                                                                                                                                                                                                                                                                                                                                                         | REMOVE ALL SECTIONS OF LOOSE CONCRETE.                                                                                                                                                                                                                                                                                                                                           |
| 7.                                                                                                                                                                                                                                                                                                                                                         | REMOVE ALL DELAMINATED, WEAK, DAMAGED AND DETERIORATED CONCRETE AND WHERE NECESSARY SOUND CONCRETE SHALL BE REMOVED BY SUITABLE AND AGREED METHODS. TIE-WIRE FRAGMENTS, NAILS AND ANY OTHER METAL WATER EMBEDDED IN THE CONCRETE MUST ALSO BE REMOVED.                                                                                                                           |
| 8.                                                                                                                                                                                                                                                                                                                                                         | THE EDGES OF THE AREA WHERE CONCRETE IS REMOVED SHALL BE CUT TO AN ANGLE OF MORE THAN 90° TO AVOID UNDERCUTTING BUT NOT MORE THAN 135° TO REDUCE THE POSSIBILITY OF SHRINKAGE / DEBONDING CRACKING AT THE ADJACENT SOUND CONCRETE INTERFACE. THESE AREAS SHALL ALSO BE ROUGHENED SUFFICIENTLY TO PROVIDE A MECHANICAL KEY BETWEEN THE ORIGINAL CONCRETE AND THE REPAIR MORTAR.   |
| CLEAN EXISTING REINFORCEMENT                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                  |
| INSTALLATION OF REPLACEMENT REINFORCEMENT (IF REQUIRED)                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                  |
| 9.                                                                                                                                                                                                                                                                                                                                                         | THE EXISTING REINFORCEMENT NEEDS TO BE CLEANED BACK TO BEAR METAL EQUIVALENT TO SA 2½ ACCORDING TO ISO 8501-1.                                                                                                                                                                                                                                                                   |
| 10.                                                                                                                                                                                                                                                                                                                                                        | WITHIN 4 HOURS OF SURFACE PREPARATION, APPLY A TWO-COAT REINFORCEMENT CORROSION PROTECTION SLURRY CONFORMING TO BS EN 1504-7. ENSURE FULL COVERAGE ACCORDING TO THE MANUFACTURER'S SPECIFIED OVERCOATING TIMES.                                                                                                                                                                  |
| 11.                                                                                                                                                                                                                                                                                                                                                        | REINSTALL ANY REPLACEMENT REINFORCEMENT BARS NECESSARY (WHERE THE CROSS-SECTIONAL AREA IN REDUCED BY MORE THAN 20% BY CORROSION) AND WELD OR LAP WITH EXPOSED REINFORCEMENT (PREVIOUSLY CAST INTO CONCRETE). THIS STEP MAY BE UNNECESSARY BASED ON OUR SITE INSPECTION.                                                                                                          |
| APPLY BONDING PRIMER                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                  |
| 12.                                                                                                                                                                                                                                                                                                                                                        | APPLY AN APPROVED BONDING PRIMER / ACTIVE SLURRY COAT CONFORMING TO BS EN 1504-7 INTO THE PRE-WETTED CONCRETE SUBSTRATE USING A STIFF BRUSH, ENSURING COMPLETE PENETRATION INTO THE SURFACE PROFILE. ADHERE STRICTLY TO MAXIMUM ALLOWABLE WAITING TIMES BEFORE MORTAR PLACEMENT.                                                                                                 |
| PREP FOR REPAIR MORTAR                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                  |
| 13.                                                                                                                                                                                                                                                                                                                                                        | PRIOR TO APPLICATION OF THE REPAIR MORTAR, THE SURFACE SHALL BE THOROUGHLY PRE-WETTED AND NOT ALLOWED TO DRY OUT. THE SURFACE SHALL HAVE A DARK MATT APPEARANCE WITHOUT GLISTENING AND THE SURFACE PORES AND THE PROFILE SHALL NOT CONTAIN WATER i.e. IN A SATURATED SURFACE DRY (SSD) CONDITION.                                                                                |
| APPLYING REPAIR MORTAR                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                  |
| 14.                                                                                                                                                                                                                                                                                                                                                        | APPLY A PRE-BAGGED, POLYMER-MODIFIED, FIBRE-REINFORCED STRUCTURAL REPAIR MORTAR CONFORMING TO BS EN 1504-3 CLASS R4. MORTAR MAY BE APPLIED MANUALLY USING TRADITIONAL TROWELING TECHNIQUES OR MECHANICALLY VIA WET-SPRAY APPLICATION.                                                                                                                                            |
| 14. WHEN APPLYING MANUALLY OVER A WET BONDING COAT, PLACE THE MORTAR 'WET-ON-WET'. PRESS THE MATERIAL FIRMLY TO ENSURE FULL COMPACTION AROUND REINFORCEMENT AND SUBSTRATE PROFILES. FOR DEEP REPAIRS EXCEEDING MAXIMUM SINGLE-LAYER THICKNESS, APPLY IN MULTIPLE LAYERS, LEAVING A KEYED, UN-SMOOTHED FINISH BETWEEN PASSES TO PROMOTE INTERLAYER BONDING. |                                                                                                                                                                                                                                                                                                                                                                                  |
| APPLYING FINAL REPAIR COAT                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                  |
| 15.                                                                                                                                                                                                                                                                                                                                                        | WHERE REQUIRED, APPLY A POLYMER-MODIFIED CEMENTITIOUS FAIRING/LEVELLING COAT CONFORMING TO BS EN 1504-2 / BS EN 1504-3 ACROSS THE REPAIRED AND ADJACENT PREPARED CONCRETE SURFACES. ALLOW THE REPAIR MORTAR TO ACHIEVE SUFFICIENT CURE PRIOR TO APPLICATION. FINISH WITH A WOODEN/PLASTIC FLOAT OR DAMP SPONGE ONCE STIFFENED. DO NOT ADD EXCESS SURFACE WATER DURING FINISHING. |
| FINAL DECORATIVE PAINT COAT (PROVIDING ADDITIONAL PROTECTION)                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                  |
| 16.                                                                                                                                                                                                                                                                                                                                                        | APPLY A DECORATIVE, CARBONATION-INHIBITING COATING SYSTEM CONFORMING TO BS EN 1504-2 (PRINCIPLE 1.3) ACROSS ALL DESIGNATED VISUAL CONCRETE ELEMENTS. THE COATING SYSTEM MUST POSSESS A PROVEN EQUIVALENT AIR LAYER THICKNESS FOR CARBON DIOXIDE RESISTANCE (SD) GREATER THAN 50 M. COLOR SELECTION TO BE CONFIRMED BY THE PROJECT ARCHITECT.                                     |

