General Repair Instructions

1. CONCRETE COLUMN JOINTS THAT ARE EXPECTED TO REQUIRE EITHER EXTERIOR OR IN-PLACE REPAIR OF THE EXISTING CONCRETE SHOULD BE DISCUSSED WITH THE PROJECT MANAGER PRIOR TO EXECUTION OF THE REPAIR. THE CONTRACTOR IS REQUIRED TO PROVIDE A UNIT COST FOR REPAIR OF AN ADDITIONAL 10 MORE SUCH JOINTS, AS DETERMINED BY THE ENGINEER. CONCRETE COLUMN JOINTS ARE DESIGNATED AS “REPAIR TYPE A” MODELS UNLESS DISCUSSED WITH THE ENGINEER PRIOR TO EXECUTION OF THE REPAIR.

2. CONCRETE COLUMN JOINTS THAT ARE EXPECTED TO REQUIRE BOTH EXTERIOR AND IN-PLACE REPAIR OF THE EXISTING CONCRETE SHOULD BE DISCUSSED WITH THE PROJECT MANAGER PRIOR TO EXECUTION OF THE REPAIR. THE CONTRACTOR IS REQUIRED TO PROVIDE A UNIT COST FOR REPAIR OF AN ADDITIONAL 10 MORE SUCH JOINTS, AS DETERMINED BY THE ENGINEER. CONCRETE COLUMN JOINTS ARE DESIGNATED AS “REPAIR TYPE B” MODELS UNLESS DISCUSSED WITH THE ENGINEER PRIOR TO EXECUTION OF THE REPAIR.

Type A Repair Instructions

1. CHOP OUT AND CAREFULLY REMOVE ALL LOOSE CONCRETE AND MORTAR TO A MAXIMUM DEPTH AS SHOWN ON THE DRAWING DETAILS AND UNTIL THE REINFORCEMENT IS EXPOSED. DO NOT EXPOSE THE FULL BAR ON ALL SIDES WITHOUT DIRECTION FROM THE ENGINEER.

2. NEATLY SAW-CUT SURFACE AT BOUNDARY EDGES OF REPAIR AREA TO A MINIMUM DEPTH OF 1/2" BUT NO MORE THAN 1". CUT EDGES SHOULD BEveled to PROVIDE AN EDGE FOR REPAIR MORTAR WITHOUT CREATING AREAS OF THIN REPAIR MORTAR. OVERCUTTING AT CORNERS IS STRICLY PROHIBITED.

3. APPLY SIKA ARMATEC 110EPOCEM® BONDING PRIMER AND REINFORCEMENT CORROSION PROTECTION TO THE SURFACE PER THE MANUFACTURERS RECOMMENDATIONS. COAT AND PROTECT THE EXPOSED STEEL, ENSURING NO CORROSION.

4. DO NOT CHIP OUT CONCRETE BEYOND REPAIR SPACES WITHOUT DIRECTION FROM THE ENGINEER.

5. PROVIDE A CLEAN EDGE FOR REPAIR MORTAR WITHOUT CREATING AREAS OF THIN REPAIR MORTAR. OVERCUTTING AT CORNERS IS STRICTLY PROHIBITED. BE VERY CAREFUL NOT TO CUT ANY EXISTING REINFORCING. DO NOT USE CHISEL OR HAMMER TO CLEAN THE EXISTING REINFORCING.

6. REFER TO ARCHITECTURAL DRAWINGS FOR INFORMATION REGARDING CAULKING, PAINTING, OR FILLING OF JOINTS.

Type B Repair Instructions

1. VERIFY SOUNDNESS BY TAPPING OR OTHER NON-DESTRUCTIVE METHOD. ALSO INSPECT FOR EVIDENCE OF CORRODED REINFORCING:

   a. Visualize and inspect concrete and mortar for any cracked, spalled, or loose concrete. Verify soundness by tapping or other non-destructive method. Also inspect for evidence of corrosion on the reinforcing steel.

   b. Make determination of type of repair required. For areas requiring clarification of repair, contractor to submit repair clarification via RFI. The RFI should clearly note the location and provide sufficient photos and/or sketches to indicate the condition and or request for local repair.

   c. Make determination of type of repair required. For areas requiring clarification of repair, contractor to submit repair clarification via RFI. The RFI should clearly note the location and provide sufficient photos and/or sketches to indicate the condition.

2. REFER TO ARCHITECTURAL DRAWINGS FOR INFORMATION REGARDING CAULKING, PAINTING, OR FILLING OF JOINTS.

3. PROTECT ALL AREAS BELOW REPAIR WORK AND AROUND EQUIPMENT AS REQUIRED BY THE MANUFACTURERS RECOMMENDATIONS. IF CURING COMPOUNDS ARE USED ENSURE THEY ARE COMPATIBLE WITH FINISHED COATINGS PER THE PAINTING REQUIREMENTS.

4. APPLY SIKA ARMATEC 110EPOCEM® BONDING PRIMER AND REINFORCEMENT CORROSION PROTECTION TO THE SURFACE PER THE MANUFACTURERS RECOMMENDATIONS. COAT AND PROTECT THE EXPOSED STEEL, ENSURING NO CORROSION.

5. CHOP OUT AND CAREFULLY REMOVE ALL LOOSE CONCRETE AND MORTAR TO A MAXIMUM DEPTH AS SHOWN ON THE DRAWING DETAILS AND UNTIL THE REINFORCEMENT IS EXPOSED. DO NOT EXPOSE THE FULL BAR ON ALL SIDES WITHOUT DIRECTION FROM THE ENGINEER.

6. REFER TO ARCHITECTURAL DRAWINGS FOR INFORMATION REGARDING CAULKING, PAINTING, OR FILLING OF JOINTS.