

CONCRETE REPAIR NOTES (FOR CONTRACTOR)

1. LOCATE AREAS OF CONCRETE WITH DELAMINATIONS, SPALLS, SCALING, AND UNSOUND CONCRETE. MARK ON SURFACE OF CONCRETE THE AREA TO BE REPAIRED. PRIOR TO THE REMOVAL OF ANY CONCRETE, PROVIDE 24 HOURS NOTICE TO THE ENGINEER IN ORDER FOR THE ENGINEER AND CONTRACTOR TO VERIFY REPAIR LIMITS.
2. SAWCUT PERIMETER OF AREA TO BE REPAIRED TO DEPTH OF 1/2" AS SHOWN ON THIS DETAIL. REPAIRED AREAS SHALL BE RECTANGULAR IN SHAPE, WITH ALL SAW CUTS AT RIGHT ANGLES.
3. REMOVE LOOSE OR DELAMINATED CONCRETE ABOVE AND OXIDIZED REINFORCING STEEL. ONCE INITIAL REMOVALS ARE MADE, PROCEED WITH THE UNDERCUTTING OF ALL EXPOSED OXIDIZED (CORRODED) BARS. PROVIDE A MINIMUM OF 3/4" CLEARANCE BETWEEN EXPOSED REBARS AND SURROUNDING CONCRETE.
4. IF UNOXIDIZED REINFORCING BARS ARE EXPOSED DURING THE UNDERCUTTING PROCESS, CARE SHALL BE TAKEN NOT TO DAMAGE THE BAR BONDS TO SURROUNDING CONCRETE. IF BONDS BETWEEN BAR AND CONCRETE ARE BROKEN, UNDERCUTTING OF THE BAR SHALL BE REQUIRED.
5. INSTALL NEW REINFORCING BARS TO SUPPLEMENT EXISTING BARS WHICH HAVE LOST MORE THAN 25% OF THEIR CROSS SECTIONAL AREA. THE NEW REINFORCING BARS SHALL BE THE SAME DIAMETER AS THE EXISTING BAR, AND SHALL EXTEND A DISTANCE OF 30 TIMES THE BAR DIAMETER BEYOND BOTH SIDES OF THE AFFECTED AREA.
6. REMOVE ALL RUST FROM EXPOSED REINFORCING STEEL TO EXPOSE BARE METAL BY SANDBLASTING. CLEAN REINFORCING STEEL.
7. REMOVE ALL BOND INHIBITING MATERIALS FROM CONCRETE INCLUDING BUT NOT LIMITED TO DIRT, CONCRETE SLURRY, AND LOOSELY BONDED AGGREGATE, BY ABRASIVE BLASTING OR HIGH PRESSURE WATER BLASTING. CHECK THE SURFACE AFTER CLEANING TO INSURE THAT SURFACE IS FREE FROM ADDITIONAL LOOSE AGGREGATE AND THAT ADDITIONAL DELAMINATIONS ARE NOT PRESENT.
8. COAT ALL EXPOSED REINFORCING STEEL AND PREPARED CONCRETE SURFACES TO RECEIVE PATCHING MATERIAL WITH ARMETEC 110 BY "SIKA" OR APPROVED EQUAL AND APPLY PATCH MATERIAL AS SPECIFIED.
9. PRIOR TO ANY PATCHING OF CONCRETE, PROVIDE 24 HOUR NOTICE TO THE ENGINEER FOR INSPECTION OF THE REPAIRED LIMITS AND TO QUANTIFY REPAIR AREAS WITH THE CONTRACTOR FOR PAYMENT.

C						REPAIR OF CONCRETE AND STEEL REINFORCEMENT	CITY OF DETROIT WATER AND SEWERAGE DEPARTMENT ENGINEERING DIVISION
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A							
	DESCRIPTION	DRW	CKD	APP	DATE		
REVISIONS							
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CHECKED BY: S.D.A.							DWG No. 03200-06
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