LAKE COUNTY LAK-90-6.71 OHIO



## STRUCTURE NOTES (CONT.)

## ITEM SPECIAL - REPAIRING CONCRETE STRUCTURES WITH SOLVENT-FREE EPOXY RESIN

- <u>DESCRIPTION:</u> PREPARATION OF THE SURFACE, AND THE MIXING AND APPLICATION OF THE EPOXY RESIN AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PERFORMED UPON: SHALL BE IN ACCORDANCE WITH THESE SPECIFICATIONS, IN REASONABLY CLOSE CONFORMITY WITH THE PLANS AND THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- MATERIAL: THE MATERIAL SHALL BE A TWO PART, SOLVENT FREE, EPOXY RESIN COATING. THE MATERIAL SHALL BE SIKAGARD 62, EUCLID CHEMICAL EPOXY 452LV, POLY-CARB MARK-65; THERMAL-CHEM PRODUCT NO. 901 OR DURALKOTE.

A MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT AT THE JOB SITE DURING THE APPLICATION OF THE EPOXY COATING UNTIL SUCH A TIME AS HE AND THE ENGINEER ARE SATISFIED THE CONTRACTOR IS QUALIFIED IN ALL ASPECTS OF APPLYING THE EPOXY COATING.

PREPARATION: ALL LOOSE AND DISINTEGRATED CONCRETE SHALL BE REMOVED FROM THE AREAS TO BE REPAIRED IN SUCH A MANNER AND TO SUCH AN EXTENT AS TO EXPOSE A SOLID CONCRETE SURFACE.
THE ENGINEER WILL SOUND THE AREA TO INSURE THAT ONLY SOLID CONCRETE REMAINS. THE CONTRACTOR SHALL LEAVE HIS LADDERS, PLATFORMS, OR SCAFFOLDS IN PLACE FOR A SUFFICIENT LENGTH OF TIME AND IN SUCH A MANNER TO PERMIT THE ENGINEER TO SOUND THE CONCRETE.

CONCRETE MAY BE REMOVED BY CHIPPING OR HAND DRESSING, CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 10 POUND CLASS, CARE SHALL BE USED IN WORKING NEAR REINFORCING STEEL SO AS NOT TO DAMAGE OR DEBOND THE STEEL, OR TO SHATTER THE CONCRETE AROUND IT. WHEN REMOVAL BECOMES EXTENSIVE THE ENGINEER MAY REQUIRE AN AREA TO BE REPAIRED AND PAID FOR UNDER THE APPROPRIATE CONCRETE PATCHING ITEM.

CLEANING SHALL PRECEDE APPLICATION OF THE COATING BY NOT MORE THAN 24 HOURS. THE SURFACE TO BE COATED AND EXPOSED REINFORCING STEEL SHALL BE THOROUGHLY CLEANED BY SANDBLASTING FOLLOWED BY AN AIR BLAST. IT MAY BE NECESSARY TO USE HAND TOOLS TO REMOVE SCALE FROM THE REINFORCING STEEL. SURFACES SHALL BE MADE FREE OF SPALL, LAITANCE, AND ALL TRACES OF FOREIGN MATERIALS.

- D. APPLICATION: THE EPOXY SHALL BE APPLIED TO THE CONCRETE SURFACES UNDER CONDITIONS AND IN THE MANNER SPECIFIED BY THE ENGINEER. TWO COATS SHALL BE APPLIED AT A MAXIMUM COVERAGE RATE OF 150 SQUARE FEET PER GALLON FOR EACH COAT. THE FIRST COAT SHALL BE TINTED TO APPEAR DIFFERENT IN COLOR THAN IN THE SECOND COAT.
- E. PAYMENT: THE COST OF ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE COATING OF THE CONCRETE INCLUDING REMOVALS AND SURFACE PREPARATION, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR:

ITEM

UNIT

DESCRIPTION

SPECIAL

SQ. FT.

REPAIRING CONCRETE STRUCTURES WITH SOLVENT-FREE EPOXY RESIN

> RALPH C. TYLER, P.E., P.S., INC. CIVIL ENGINEERS & LAND SURVEYORS 2143 FAIRHILL RD., CLEVELAND, OHIO 44106

## STRUCTURE NOTES

LAK-90-0711

LAK-90-0767 LAK-90-1007 LAK-90-1031 LAK-90-1151

LAKE COUNTY
DESIGNED

STRUCTURE NOTES