



CONCEPT

FORMWORK: THE STRUCTURE WHICH CONTAINS AND MOLDS THE CONCRETE AS IT GETS POURED. A CONSIDERABLE AMOUNT OF WORK IS INVOLVED IN THE CONSTRUCTION OF FORMWORK (CHIPPERS, STEELWORKERS, LABOURERS) AND YET THE END PRODUCT SEEMS TO DEVALUE IT. INTEGRATION OF CONCRETE AND FORMWORK WAS AN INITIAL IDEA.



CUTTING/ IMPRINTING: THE FACT THAT CONCRETE TAKES THE SHAPE OF ITS FORMWORK AND THE MIRROR IMAGE OF THE SURFACE IT RUBS UP AGAINST IS A NICE IDEA TO WORK WITH. MY IDEA WAS TO EXCAVATE A PEICE OF GROUND (IN THE BOG) AND USE THE GROUND AS BOTH FORMWORK AND FINISH FOR THE CONCRETE. BOG/ PEAT IS EASY TO EXCAVATE, HOLDS IT'S FORM WELL, AND YOU CAN IMPRINT ANY IMAGE YOU WANT ON ITS SURFACE. SOME OF THE IMPRESSIONS LEFT ON THE PEAT AFTER BEEN CUT BY MACHINE OR MAN WERE INTERESTING STARTING TO POINTS TO LOOK AT.



SHELTER/ SHED: SLATED HOUSES, SHEDS, FARM SHEDS THEY ARE LITTERED ALL OVER THE COUNTRY SIDE. THEIR PURPOSE TO PROVIDE SHELTER AND SECURITY FOR THEIR CONTENTS. THEY ARE ALSO PRESENT AROUND THE BOG LANDS IN MANY FORMS AND SIZES AND SOMETIMES ARE FOUND AT THE END OF SOME BOG PLOTS, WHICH LEADS ME TO MY IDEA OF USING CONCRETE IN AN NEW AND EXCITING WAY.

SECTION 1 : 50



SITE: TOORAHREEN, CO MAYO. A SINGLE BOG PLOT THAT HAD JUST BEEN CLEARED FOR THE CUT IN SPRING.

EXTRACTION: REMOVING THE SOD FROM THE SURFACE WITH A SPARE. THE FORM HOLDS IT'S SHAPE WELL AND IMPRESSIONS ARE EASILY CUT OUT OR IMPRINTED ON TO THE PEAT SURFACE.



STACKING THE TURF ON THE SURFACE OF THE BOG FOR DRYING THIS WAS DONE EITHER BY HAND OR BY MACHINE.



CUTTING TURF BY MACHINE OR HAND. THESE DAYS MOSTLY DONE BY MACHINE. BY 2040 BELANDS SOURCES OF PEAT WILL BE DEPLETED.



THE GROUND HOLDS ITS SHAPE WELL WHEN EXTRACTING PEAT, WHICH LEAD TO THE IDEA OF USING IT AS A FORMWORK.



WORKING IN THE BOG WAS ALWAYS A COMMUNITY EVENT. FRIENDS AND NEIGHBOURS WOULD HELP EACH OTHER IN SAVING THE WINTER FUEL.



THE DIMENSION OF THE THE SLAB POURED WAS . 500X400X 250MM THE MIX CONTAINED SAND, FINE AGGREGATE, CEMENT AND BOG WATER. I USED VARIOUS MIXES BUT A DRY MIX SEEMED TO SURE THE CONCRETION IS BETTER.

I PLACED CROSS-CROSSED REEPS AT 90-100MM LEVELS ON TOP OF THE CONCRETE TO ACT AS A REEF REINFORCEMENT. THE SLAB EXTRACTED EARLY, BUT THERE MAY BE POINTS OF THE CONCRETE BECOMING WEAK OVER TIME IF THE REEF WAS TO DECAY.



THE CONCRETE TOOK 3-4 DAYS TO SET PROPERLY, WITH THE BOTTOM OF THE SLAB DRYING QUICKER THAN THE TOP.

END RESULT. THE CONCRETE IS REMOVED WITH CARE FROM ITS MOLD AND IS MARKED WITH SOME VERY INTERESTING MARKINGS FROM THE PEATS SURFACE.

PLAN 1 : 50



DESIGN BRIEF: CONCRETE SHED FOR STORING TURF. LOCATED AT END OF PLOT. FORM WORK CUT INTO THE GROUND. CONSTRUCTED BY 3-4 MEN. A TRACTOR. USE OF TIMBER CHLEPERS AS A MATERIAL. PROVIDE SHELTER AND SECURITY FOR CONTENTS.



concrete project sheet 1



concrete project sheet 2

