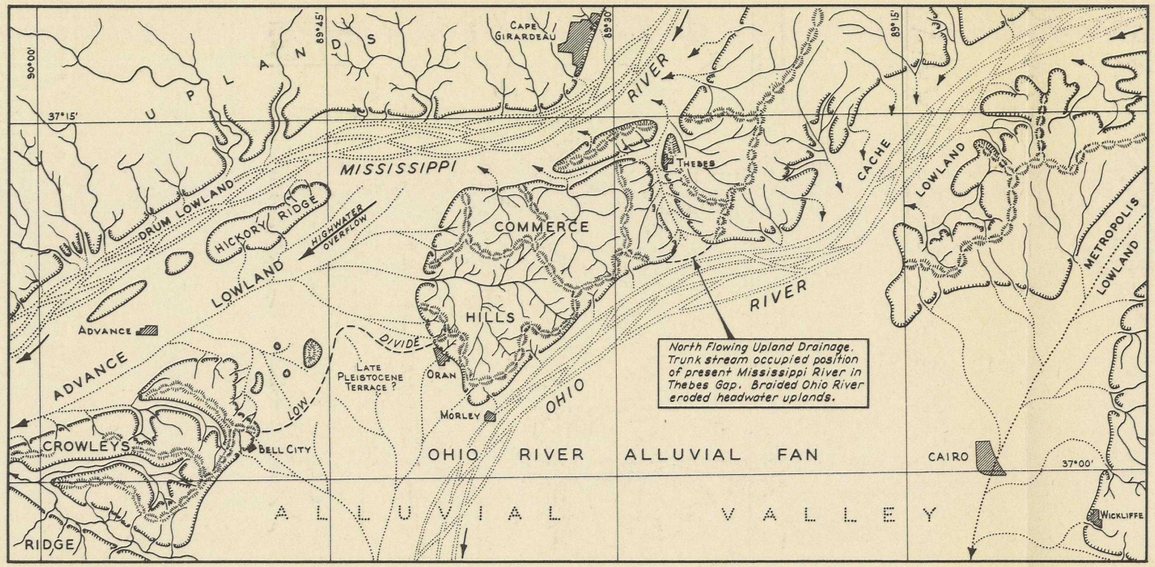

DIAGRAM 1

EARLY STAGE – A1 DRAINAGE

BRAIDED MISSISSIPPI RIVER IN DRUM LOWLAND, BRAIDED OHIO RIVER IN CACHE LOWLAND. POSITIONS OF MINOR DRAINAGE SYSTEMS IN ALLUVIAL VALLEY INFERRED.

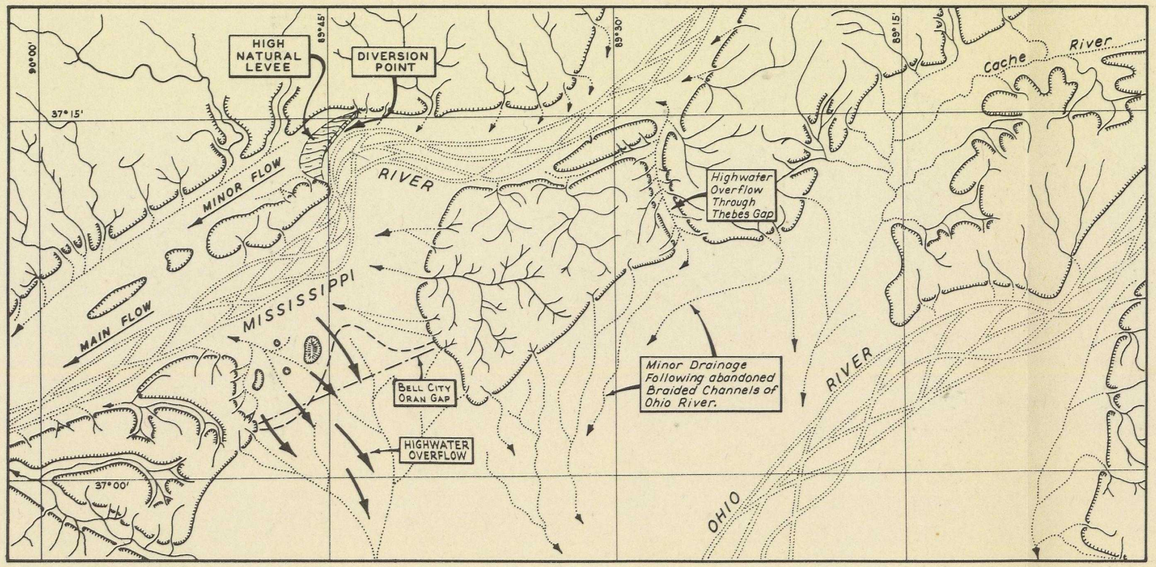

DIAGRAM 2

EARLY STAGE – B1 DRAINAGE

BRAIDED MISSISSIPPI RIVER DIVERTED FROM DRUM LOWLAND TO ADVANCE LOWLAND. BRAIDED OHIO RIVER IN METROPOLIS LOWLAND. MISSISSIPPI RIVER HIGHWATER OVERFLOWED INTO EASTERN LOWLANDS THROUGH THEBES GAP AND BELL CITY – ORAN GAP.

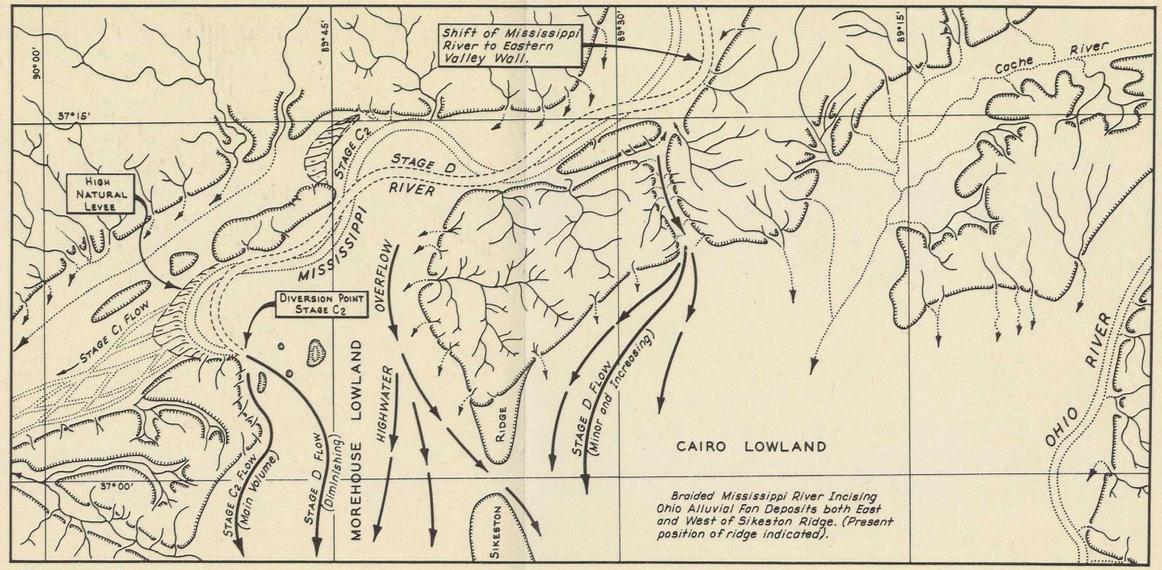

DIAGRAM 3

INTERMEDIATE STAGES

DIVERSION OF MISSISSIPPI RIVER FROM ADVANCE LOWLAND TO MOREHOUSE LOWLAND (STAGE C2). MAIN MISSISSIPPI FLOW CONTINUES THROUGH MOREHOUSE LOWLAND IN STAGE D BUT PARTIAL FLOW IS MAINTAINED IN THEBES GAP.

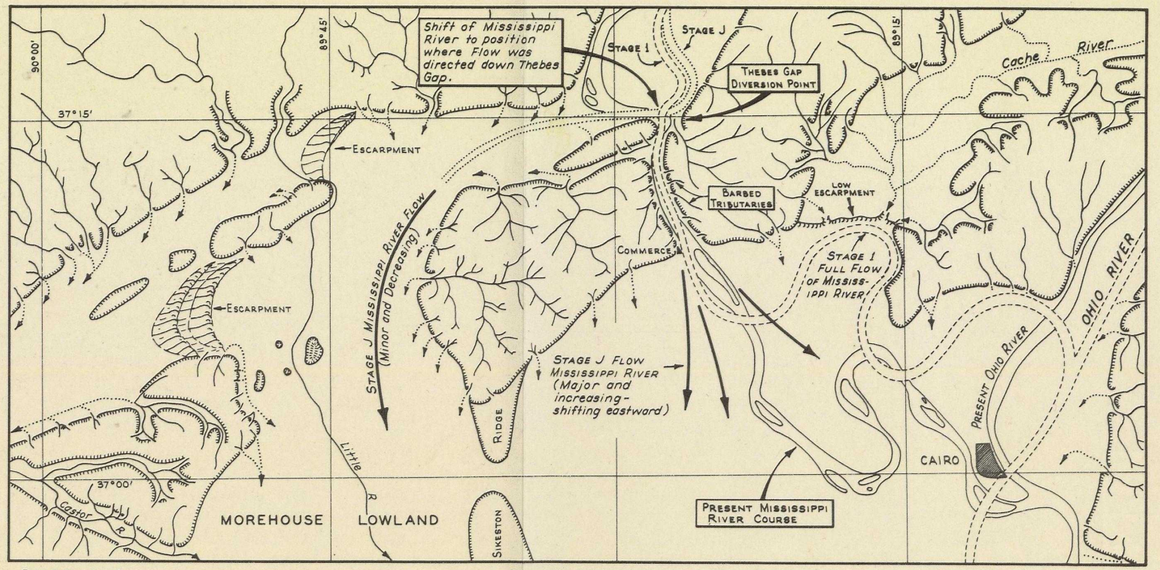

DIAGRAM 4

LATE STAGES

ESTABLISHMENT OF MISSISSIPPI RIVER THROUGH THEBES GAP (STAGE J) WITH FLOOD WATERS CONTINUING TO FLOW THROUGH MOREHOUSE LOWLAND. RIVER DEVELOPS MEANDERING CHANNEL BETWEEN COMMERCE AND OHIO RIVER JUNCTION (STAGE 1).

CHANGES IN POSITION OF MISSISSIPPI RIVER AT THE HEAD OF THE ALLUVIAL VALLEY

10 0 10 Miles

MRC/2588 SH. 23