

IRRIGATION IMPLEMENTS

&

STRUCTURES

IMPLEMENTS:

1.Plows

2.Harrows

3.Scrapers

4.Levelers

5.Furrowers

STRUCTURES

CONVEYANCE STRUCTURES:

- 1. Flumes – used for crossing depressions or narrow canyons & for conveying irrigation water along very steep sidehills.**
- 2. Tunnels – used to shorten the length of a diversion canal to avoid difficult & expensive construction on steep, rocky hillsides & to convey water through mountains.**

STRUCTURES

CONVEYANCE STRUCTURES:

- 3.Drops & Chutes-for places where natural slopes down which canals must flow are so high as to cause excessive water velocities & erosion of the canal banks & bed.**
- 4.Inverted siphons-for crossing wide deep hollows, depressions, or canyons through them under pressure**

STRUCTURES

CONVEYANCE STRUCTURES:

- 5. Siphon tubes – to convey water over the ditch bank into the furrow**
- 6. Culvert- to convey water underneath roads or other obstructions**

STRUCTURES

CONTROL STRUCTURES:

- 1. Check gate – placed across a stream from which it is desired to divert water.**
- 2. Dam-same function as a check gate but on a bigger scale**
- 3. Take out gate – to regulate the quantity of water flowing into small lateral, field ditch or furrow.**

STRUCTURES

CONTROL STRUCTURES:

- 4. Head gate – same as take out gate but installed at the main diversion works on the river system.**
- 5. Radial gate- same as head gate or take out gate but installed in big-sized canals like the main canal**
- 6. Turnout gate- same as take out gate but installed in main farm ditches**

CHUTE



DROP



Oliver Plow to go to Romania "Cold Mountain"

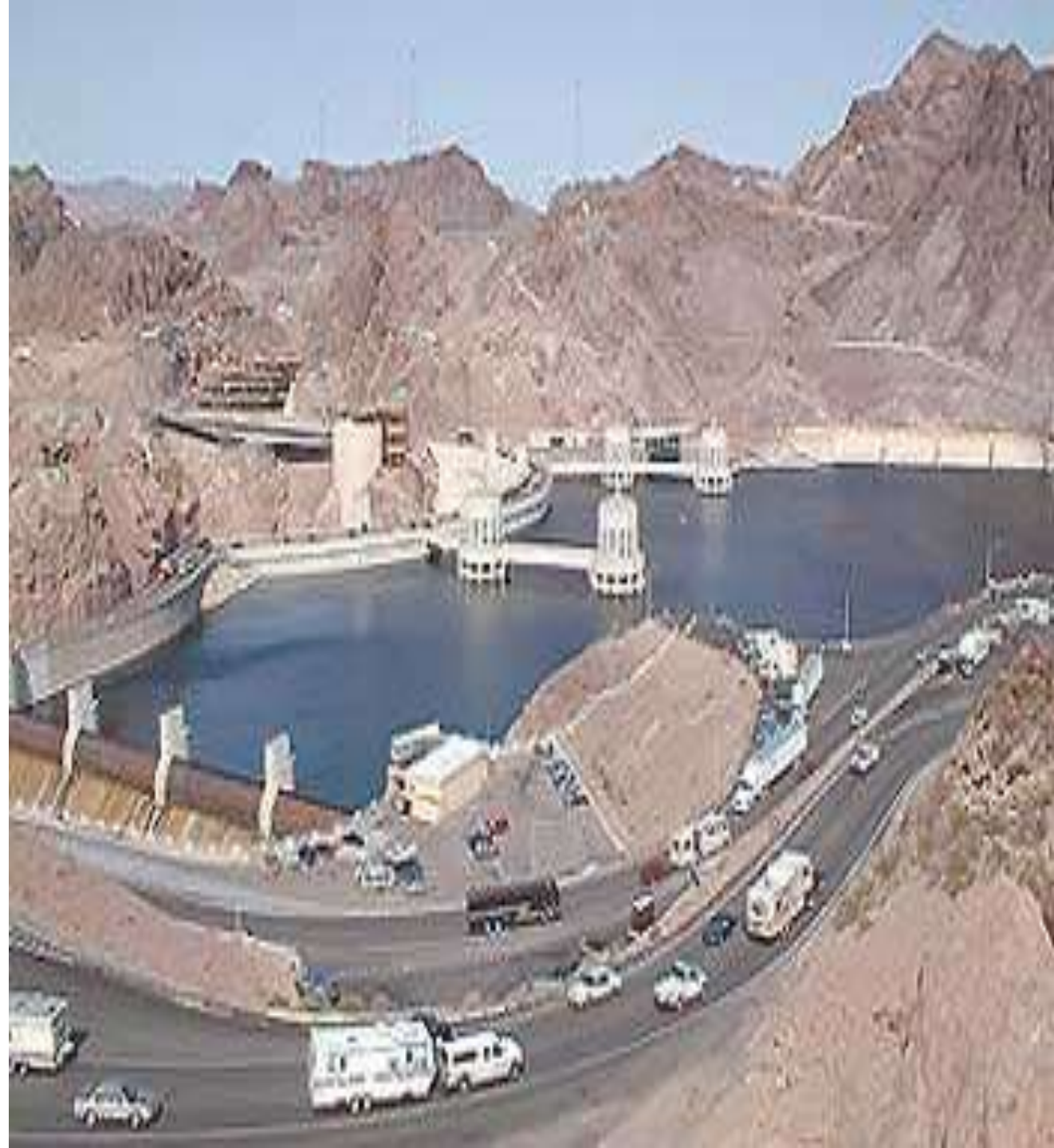


MOLDBOARD PLOW

FLUMES



RESERVOIR DAM





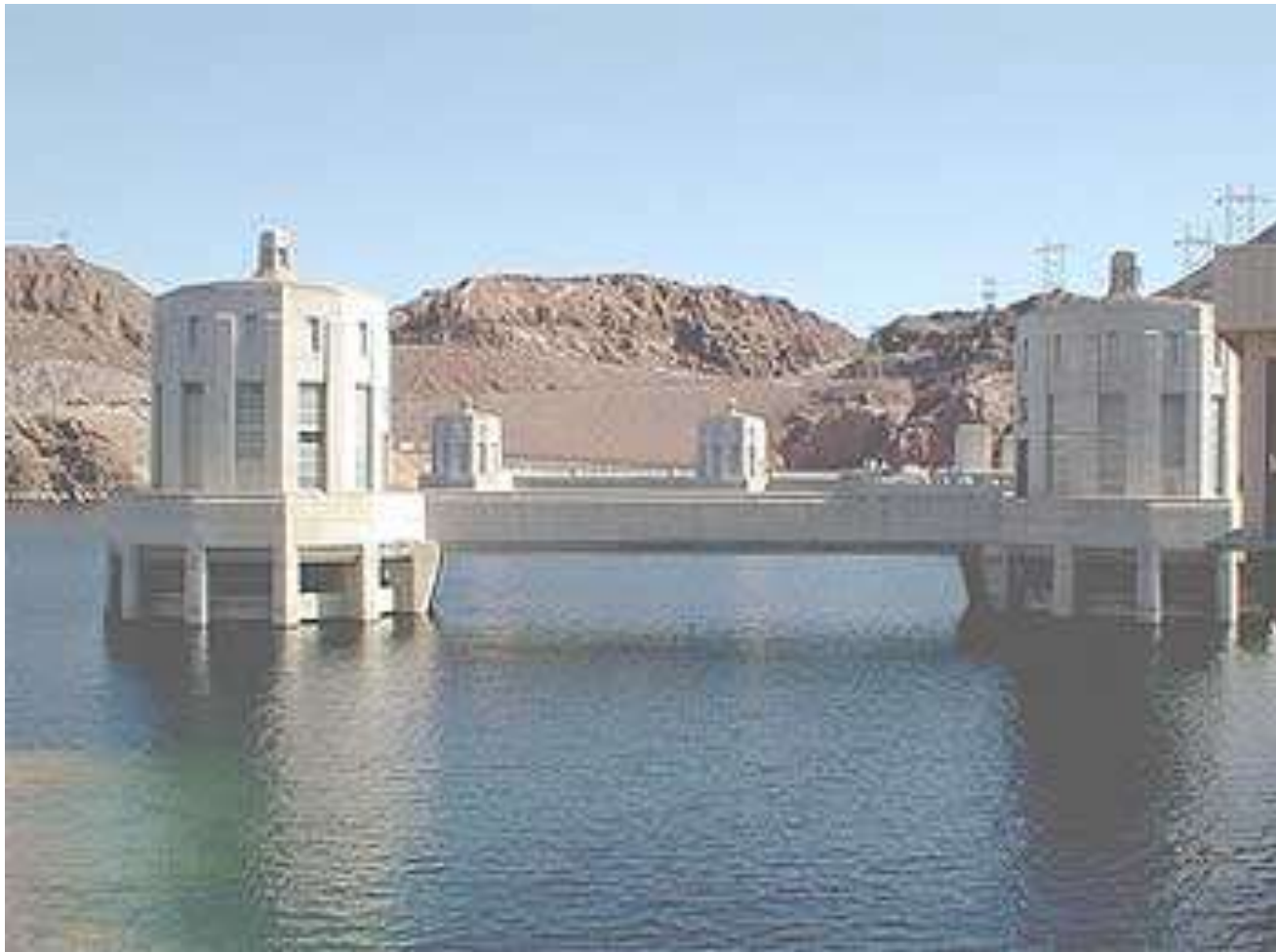
TUNNEL



DIVERSION DAM



TUNNEL



**INTAKE TOWERS AT THE UPSTREAM
OF A RESERVOIR DAM**



INTAKE TOWER



INTAKE TOWERS



INTAKE TOWERS



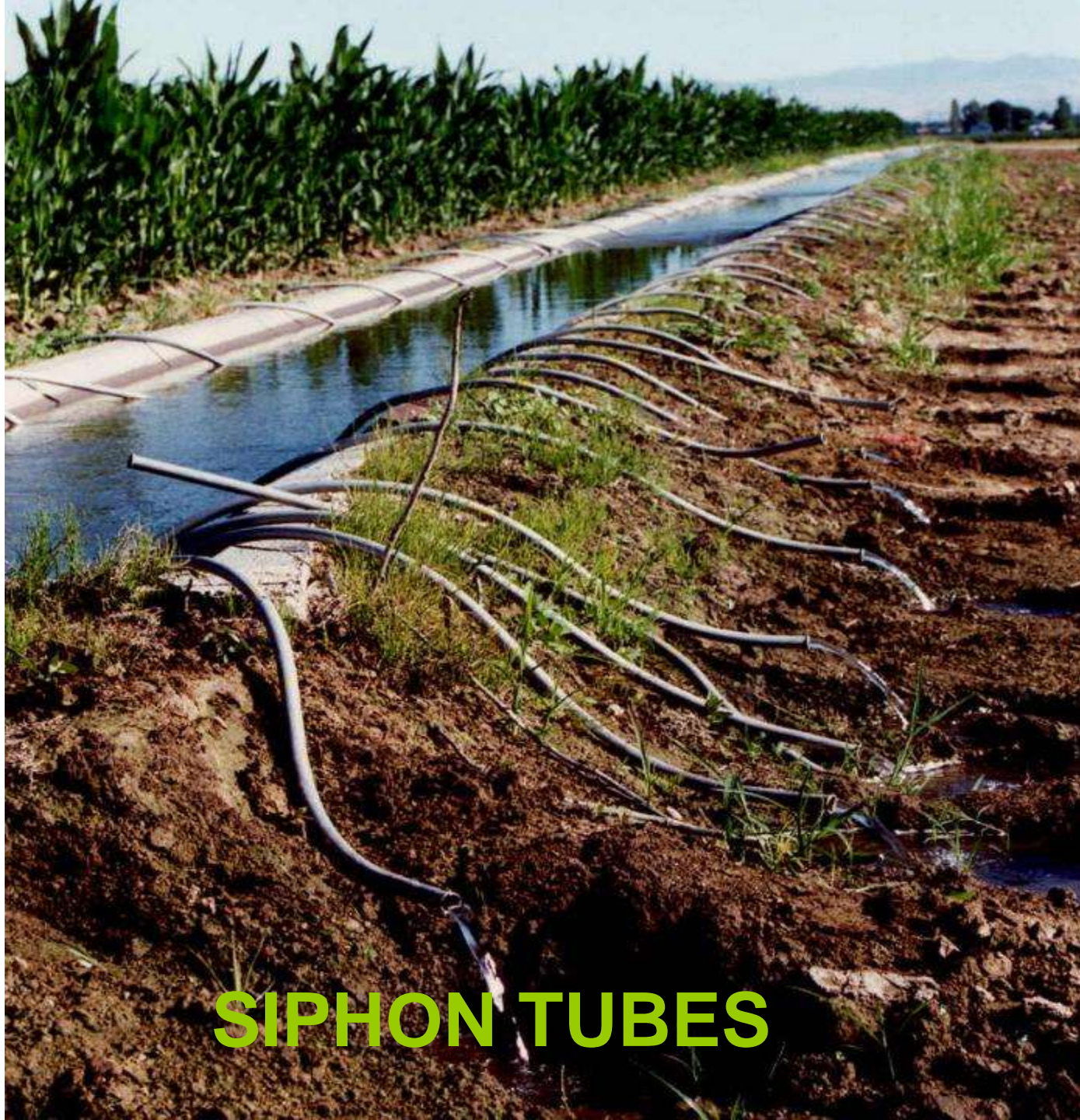
STEERING WHEEL OF A TURNOUT GATE



TUNNEL UNDER CONSTRUCTION



MOLDBOARD PLOW



SIPHON TUBES



SIPHON TUBES



**STEERING WHEEL OF A
TURNOUT GATE**





INVERTED SIPHON



INVERTED SEWER SIPHONS OF CAST-IRON USED IN CARRYING SEWERS UNDER THE SUBWAY IN NEW YORK SUBWAY CONSTRUCTION. THE TWO LARGE PIPES ARE FIVE-FOOT STORM SEWERS. THE SMALLER PIPE IS A 24-INCH SEWER TO CARRY THE DRY-WEATHER FLOW OF SEWAGE. NOTE THE SPECIALS AT THE BEND AT THE LOWEST POINT IN THE SIPHON.

INVERTED SIPHON