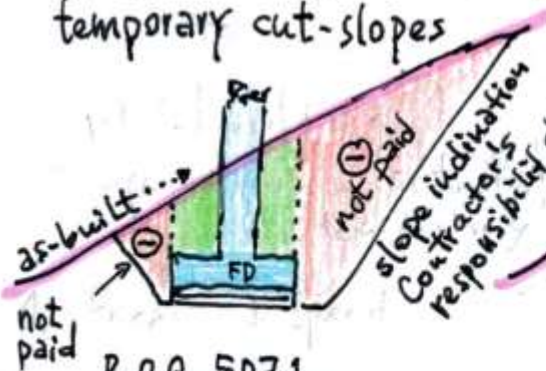


# <B.I.M.> Earthworks

- Principle 1. GCC Net actual quantity of Permanent Works  
 2. Tech Spec No separate item for Haul & Transport  
 3. MOM additional working space, other temporary works & backfilling & Transport to dump ind. UNIT RATE -

## Scenario 1

permanent works  
 refill - backfill  
 temporary cut-slopes



B.O.Q 507.1

- struct. Excavation ↑ / spread
- Exc. & Backfill ↓
- **!!! loading of extra soil !!!**
- additional temporary works
- **NOT PAID** to prevent.....
- as-built permanent works

## Scenario 2

permanent works  
 refill + add cut-face  
 "final"



B.O.Q 507.1

- add. payment for permanent Excavation, spread.
- ↳ ind. load + haul
- Excavation temporarily built, not paid
- not payable
- as-built permanent works

## Scenario 3

permanent works  
 No refill - backfill  
 "final" cut-slopes



TECSpec 110, 600 MOM 300 prevails BOQ 500 -

- Excavation 507.1
- Spread load
- Haul/Transport & dump → perm. Work
- ⇒ except used for Fill...
  - prone for
  - double payment!
  - B.O.Q. 508.2 ....
- as-built

GuB21/HFG2404  
 APRIL 2020.

PS: 508.2 loading of extra soil → re-utilized for Fill shall be tightly monitored, otherwise "double Paid" for Embankment/Fill.  
 ← This is an inconsistent B.O.Q item against Tech Spec item 110.