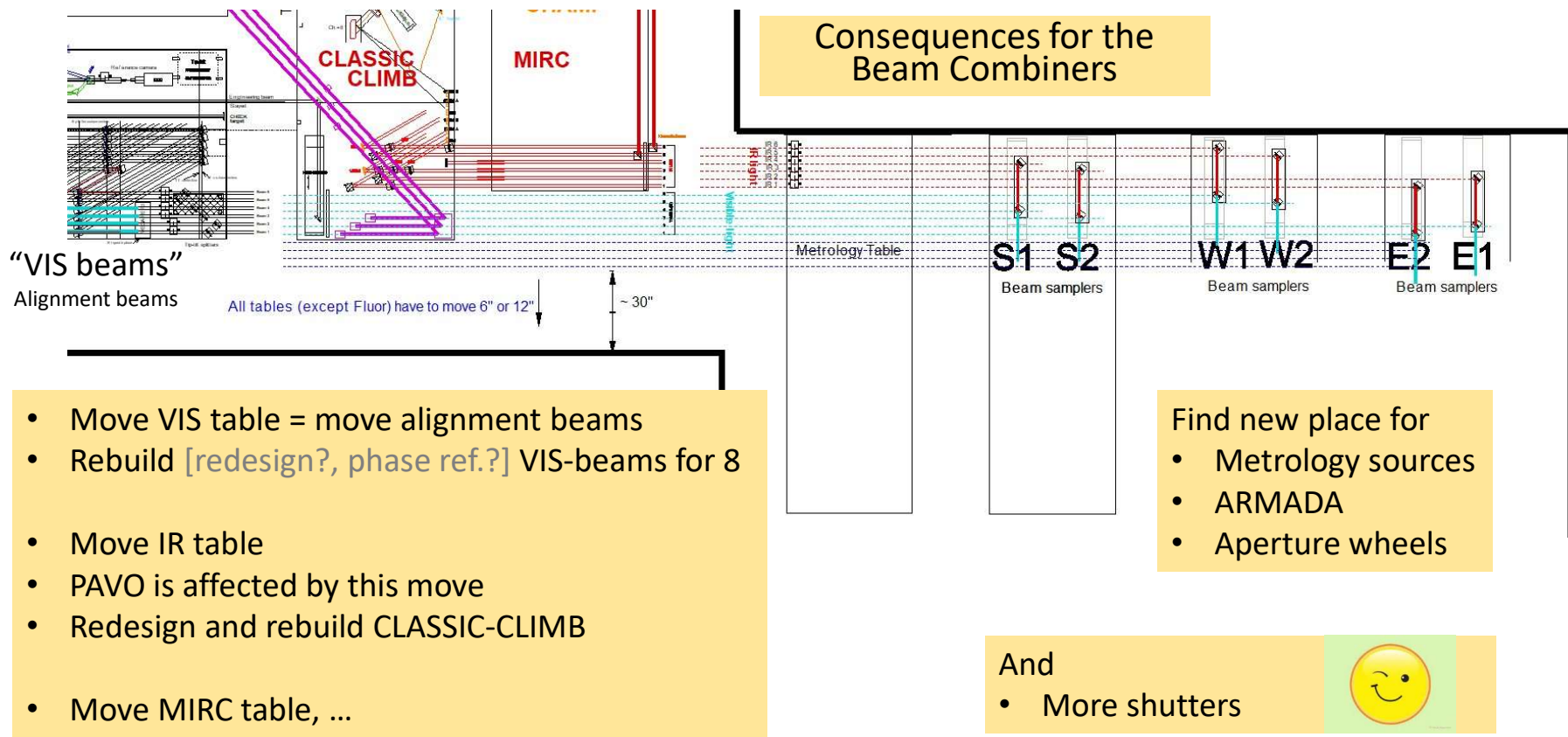


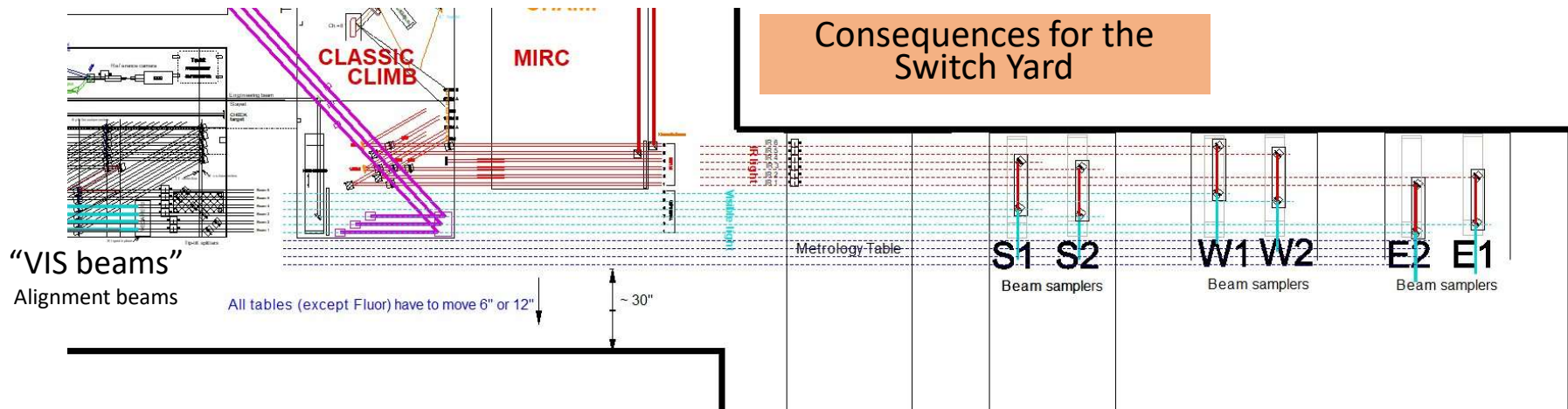
Adding Two Telescopes to the Lab

Judit Sept. 22, 2017



Adding Two Telescopes to the Lab

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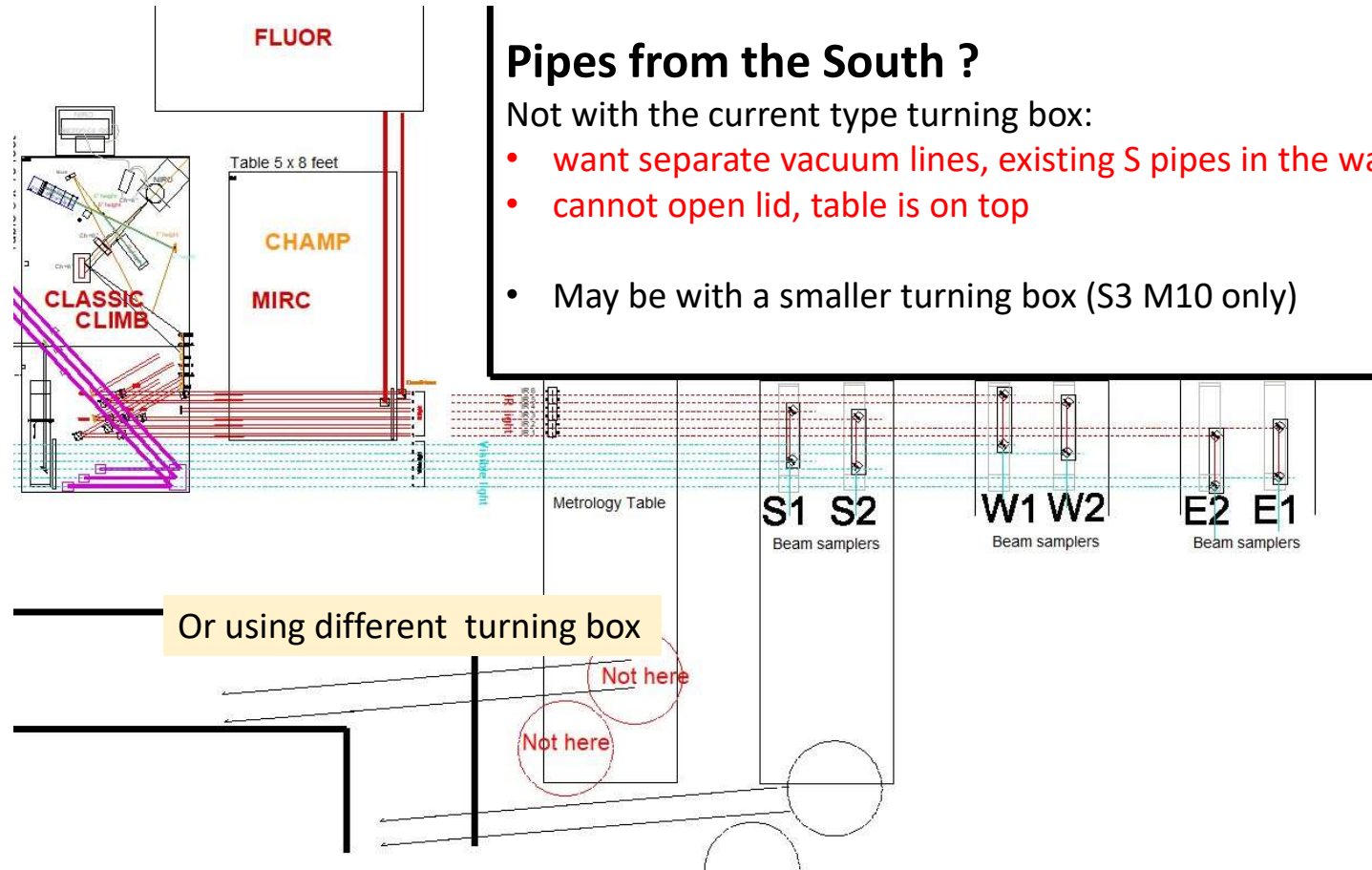
Consequences for the Switch Yard

- 6 existing BS stages can be used, but the trays have to be 12" wider
- Add two more BS stages + 8 new trays
- Populate new table with LABAOs, LDCs, BRTs
- Existing LABAO setups have to move 12" toward the rails
- Existing BRTs have to move 10" toward the rails >> end of table!
- No room for metrology fold mirrors !!

Light Pipes vs Fibers

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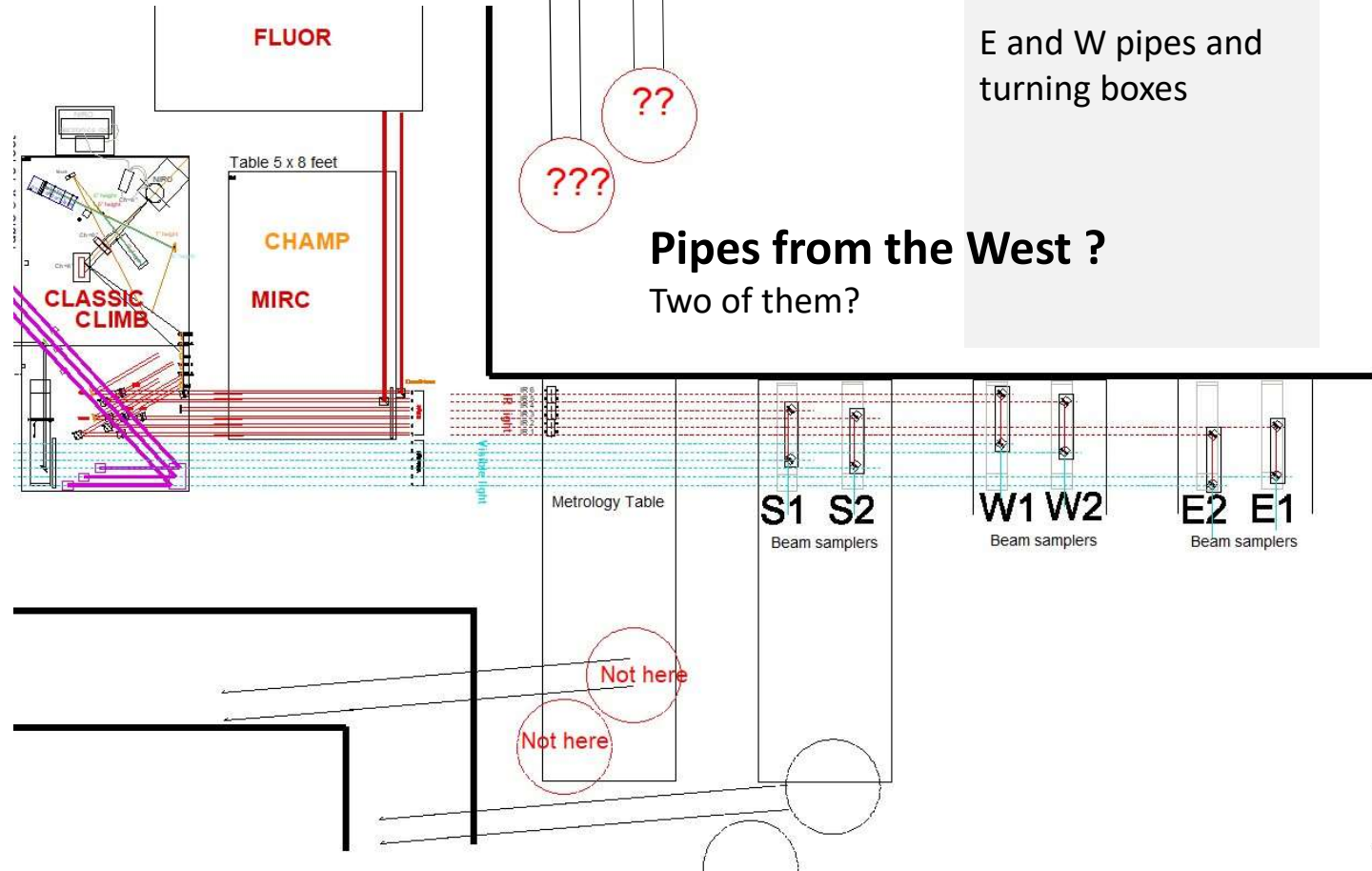
If pipes, it has to be the same type of delivery system || with existing pipes to match polarization.



Light Pipes vs Fibers

Judit Sept. 22, 2017

If pipes, it has to be the same type of delivery system || with existing pipes to match polarization.



E and W pipes and turning boxes

Pipes from the West ?

Two of them?

???

??

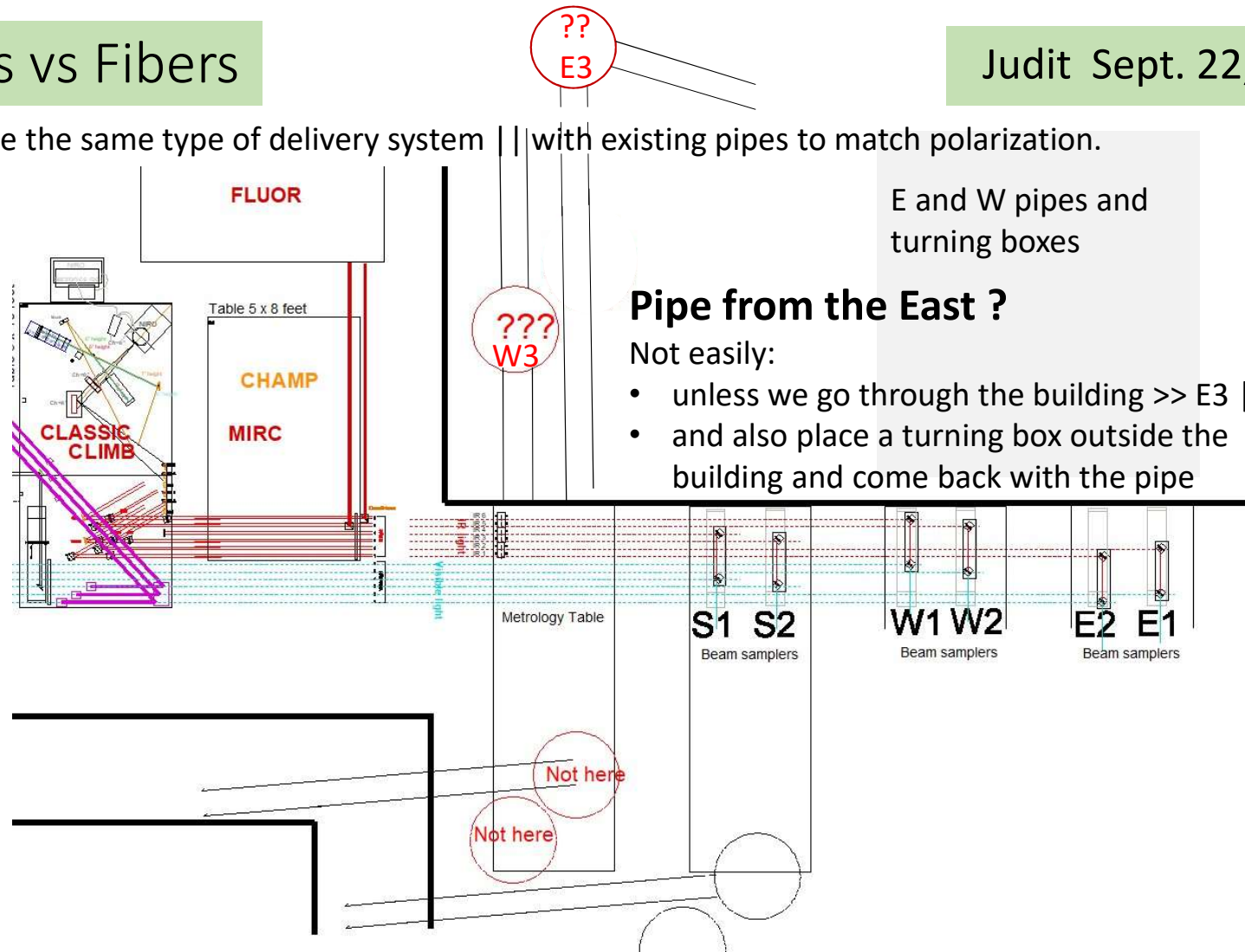
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Light Pipes vs Fibers

Judit Sept. 22, 2017

If pipes, it has to be the same type of delivery system || with existing pipes to match polarization.



Adding pipes and keeping polarization, so || with the current Y:

- Two pipes from the West (repeat of existing design all along), but why 4 in the West.
- One West + one South (with new type turning box) possible.
- One West + one East (turning box outside!) possible.
- One South (new type turning box) one East (turning box outside!) possible.

Fiber:

- Could be gradual: only the two new ones, but eventually all 8 should then be fiber.
- We have no experience with it.
- Wavebands, new possibilities?
- Need to design injections, launchers at appropriate points.
- ...