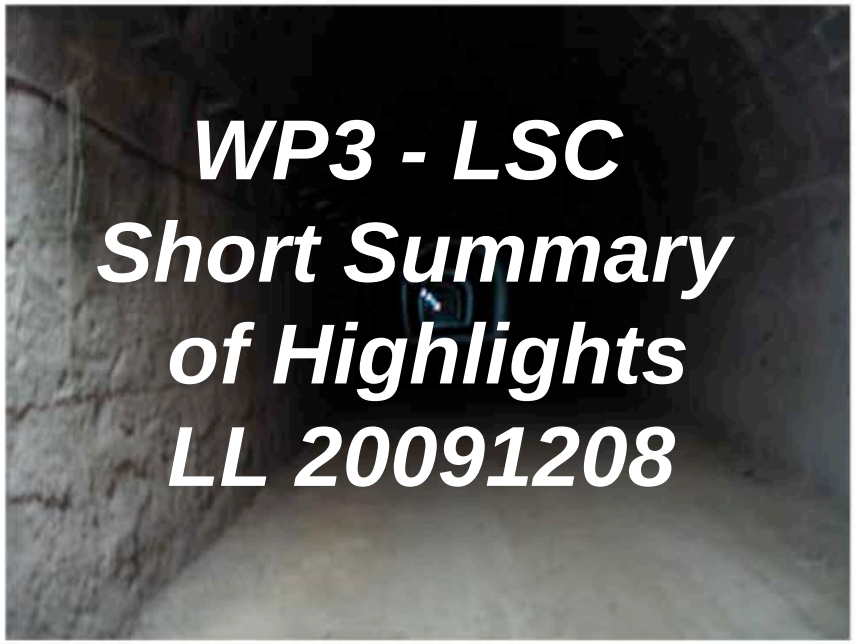


WP3 - LSC
Short Summary of Highlights
LL 20091208

First: the not-so-good news

(2) Socio-Economic Impact Assessment Summary

This table is designed to assess what socio-economic impact the infrastructure itself will have.

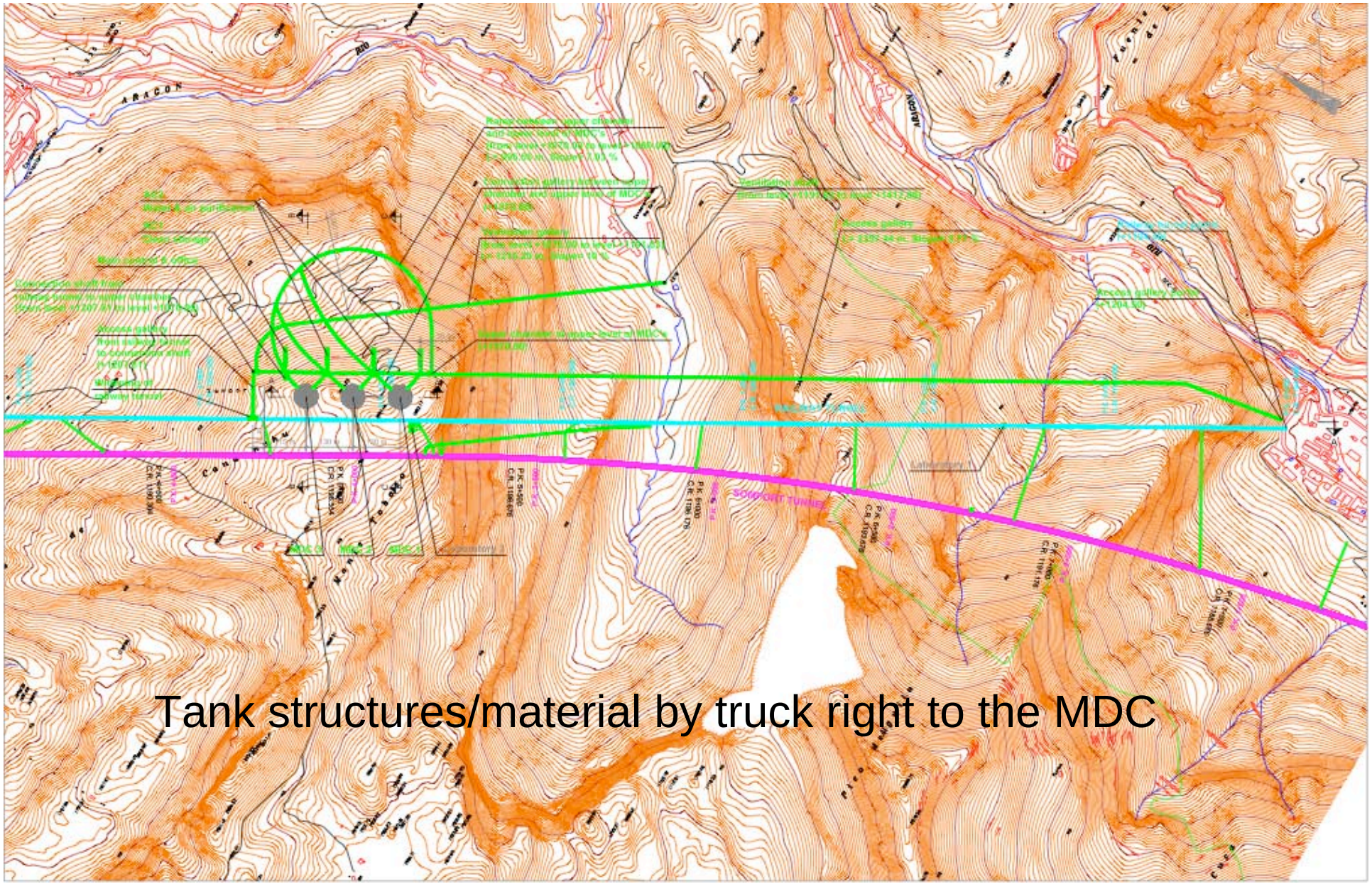
Impact Item	Impact
Job creation	(how will the infrastructure effect local and national employment during and after construction?)
Skills and knowledge Exchange	(how will the infrastructure, during and after construction, impact on the skills base?)
Economy	(how will the infrastructure benefit the local and national economy in general)
Environment	(what will be the short and long term environmental impact)
Local services	(what will be the short and long term impact on emergency services)
Local transport	(what will be the short and long term impact on roads and local transport services?)
Local political profile and status	(what benefits will there be to the profile of the region and what impact will this have)
Impact on science for the region and nation	(what benefits will there be to the science profile of the region and nation and what impact will this have)
Impact on society, schools and education	(what benefits will there be to society, schools and education, e.g. through outreach programmes etc, and what impact will this have)
Other impacts	

- There was a “verbal” compromise by the regional government of Aragon to take care of it
- ... but they have just informed us that it wont be possible ...

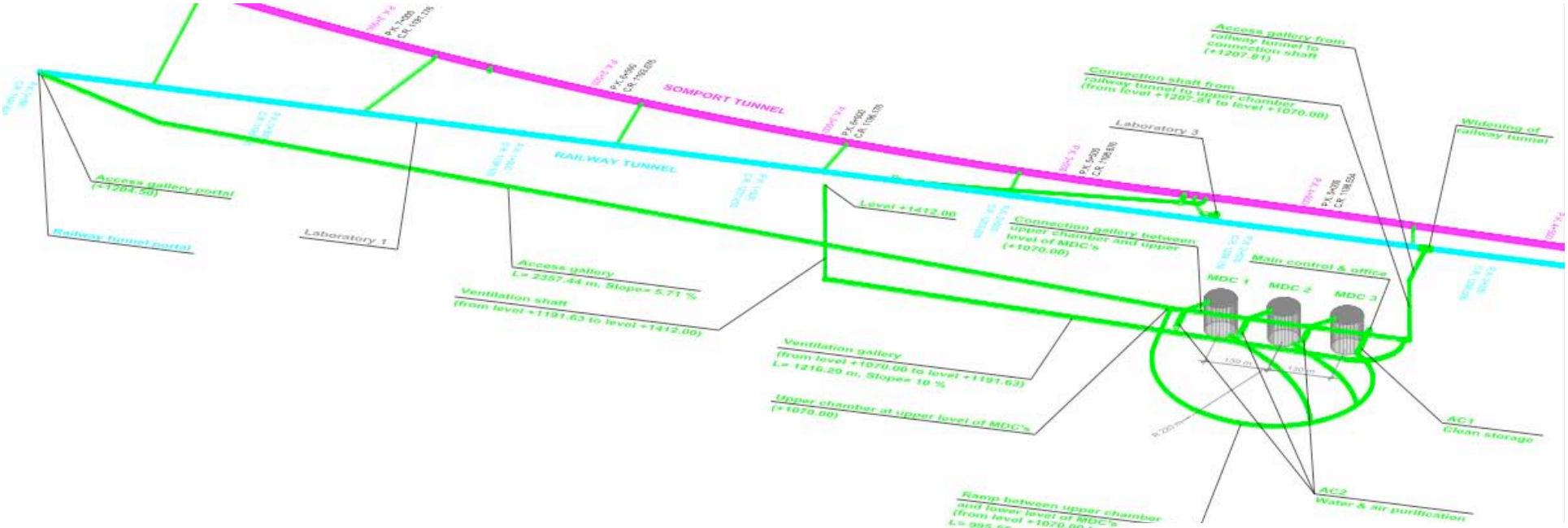
⇨ we will have to do it (and in a hurry !)

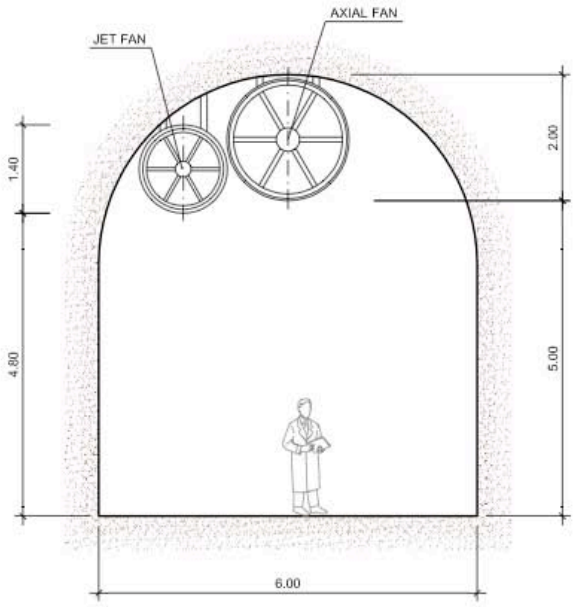
The rest is good stuff (in my opinion):

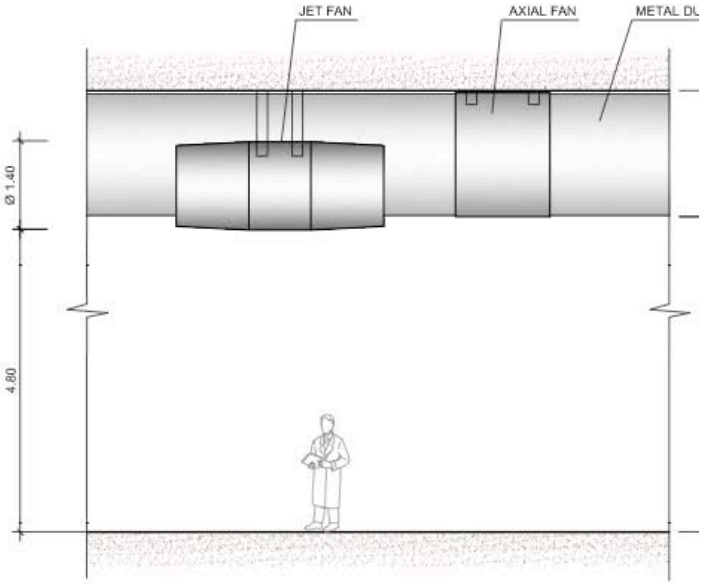
General concept for ventilation, evacuation, ... :



Tank structures/material by truck right to the MDC







FINAL VENTILATION SYSTEM

TWO SPEEDS:

.- 30 m³/S FOR NORMAL VENTILATION.

.- 90 m³/S FOR FIRE PROTECTION VENTILATION.

Rn-free flow:
30 m^3/s
(1 volume / h)

No Rn-free
areas: 38 m^3/s
(1 volume / h)

Fire/Smoke
exhaust: 90m^3/s

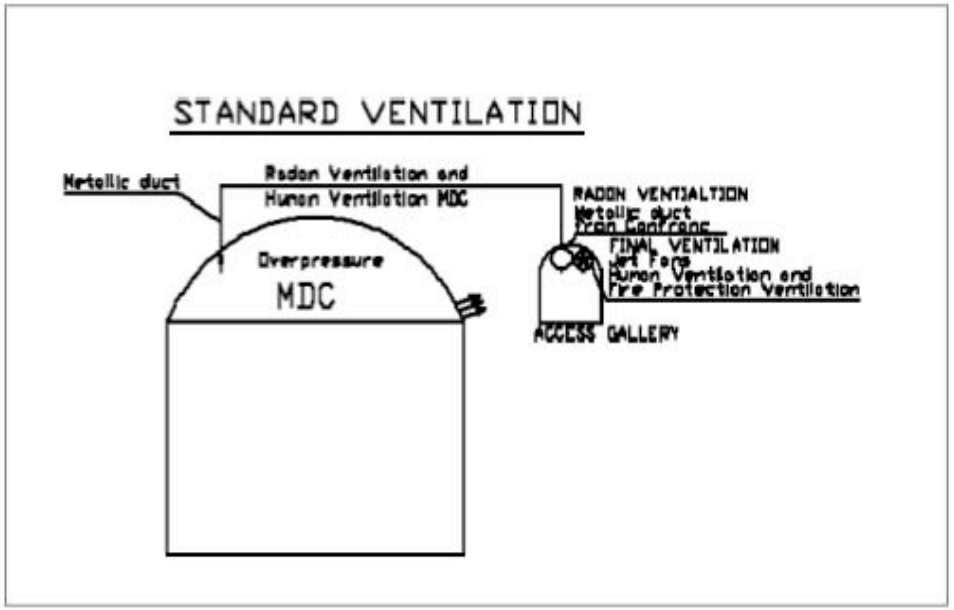


Figure 7.5-1.Ventilation system scheme, including final ventilation and radon free air supply

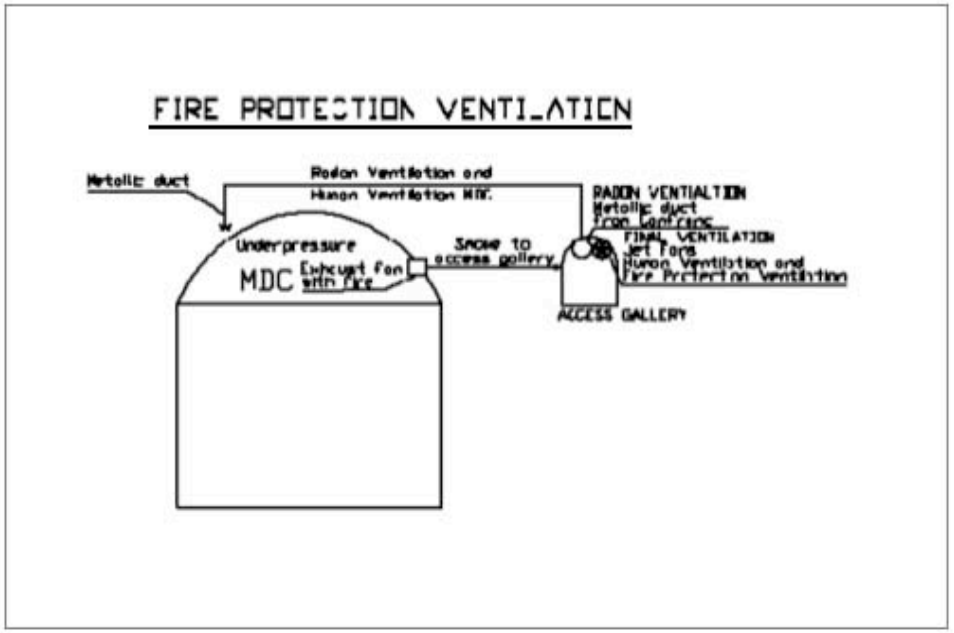
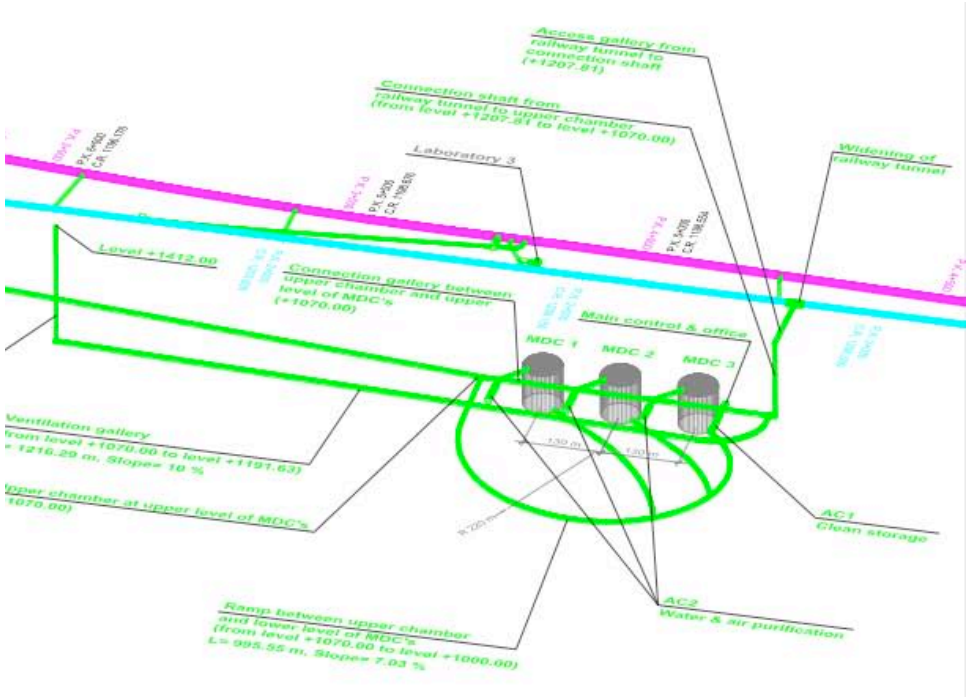
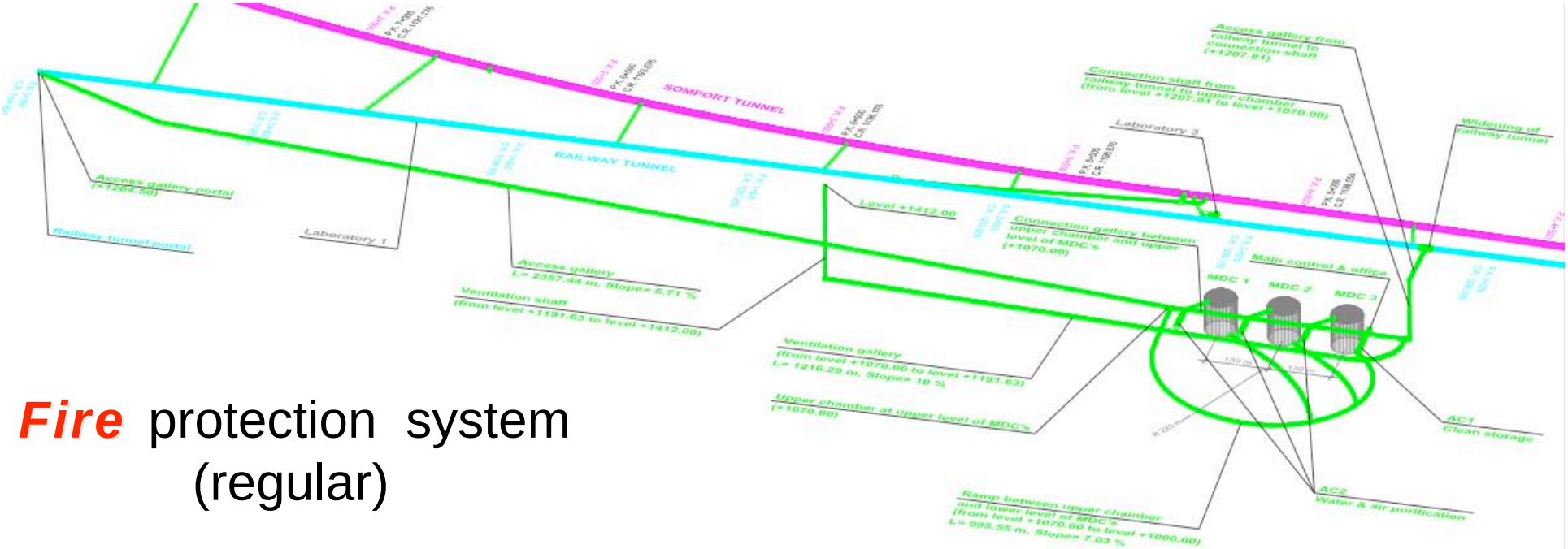


Figure 7.5-2. Fire protection ventilation system scheme

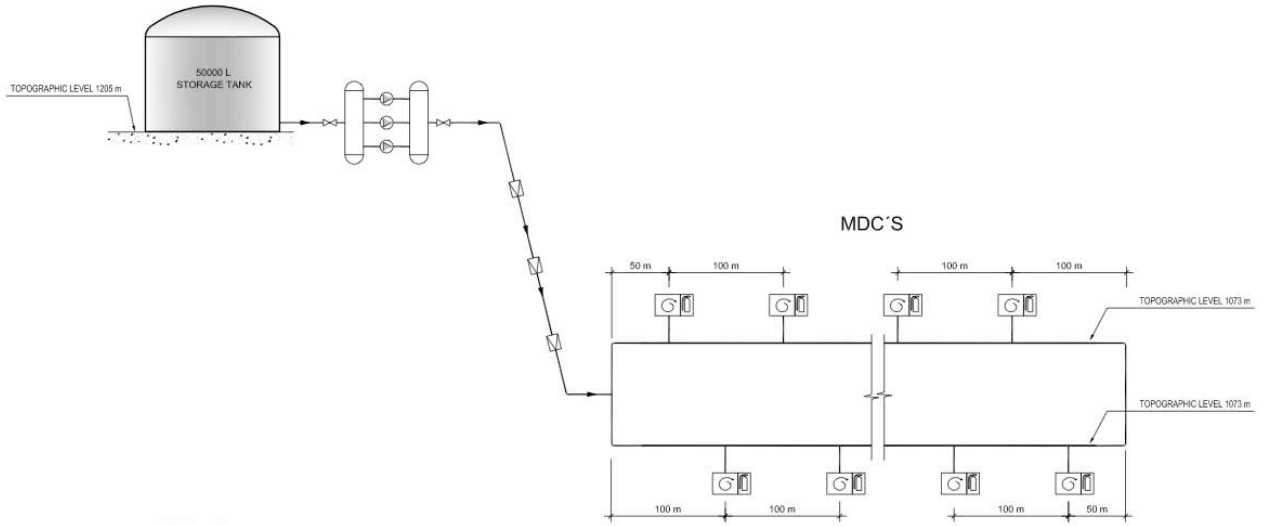


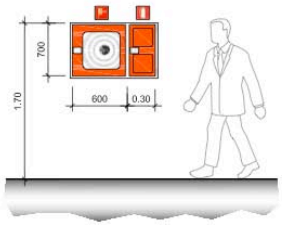
Fire/Smoke

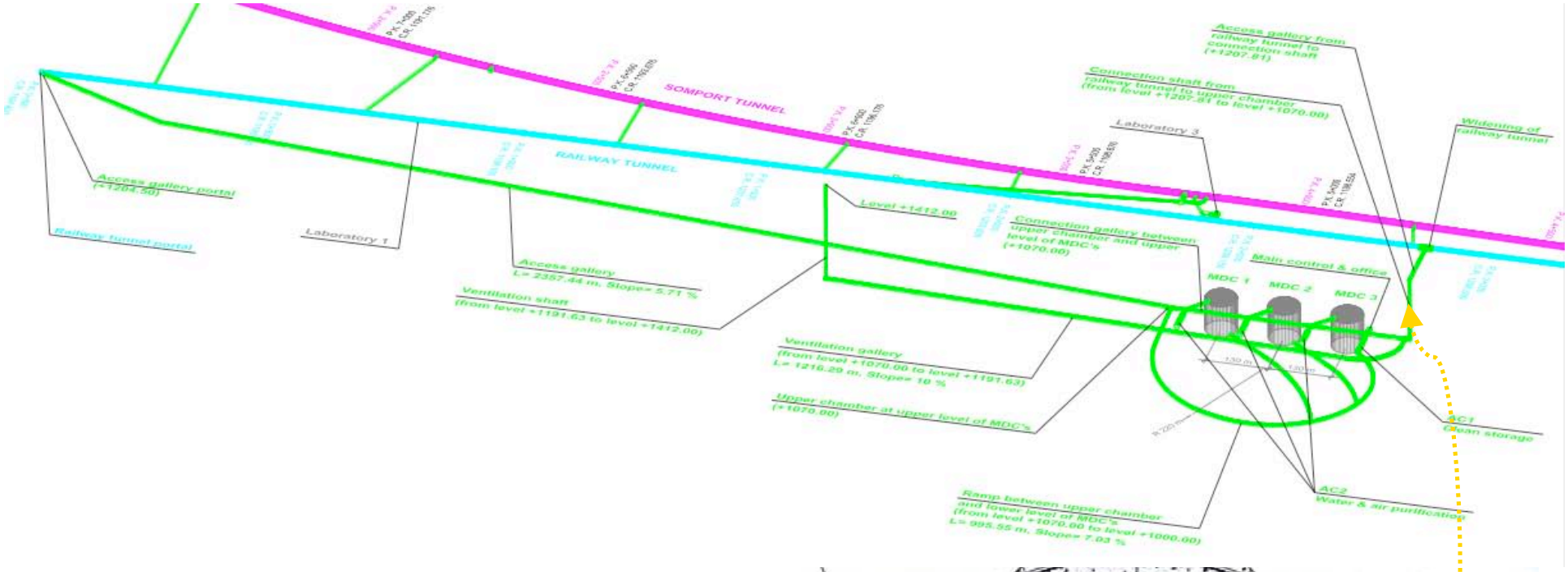
exhaust: 90m^3/s



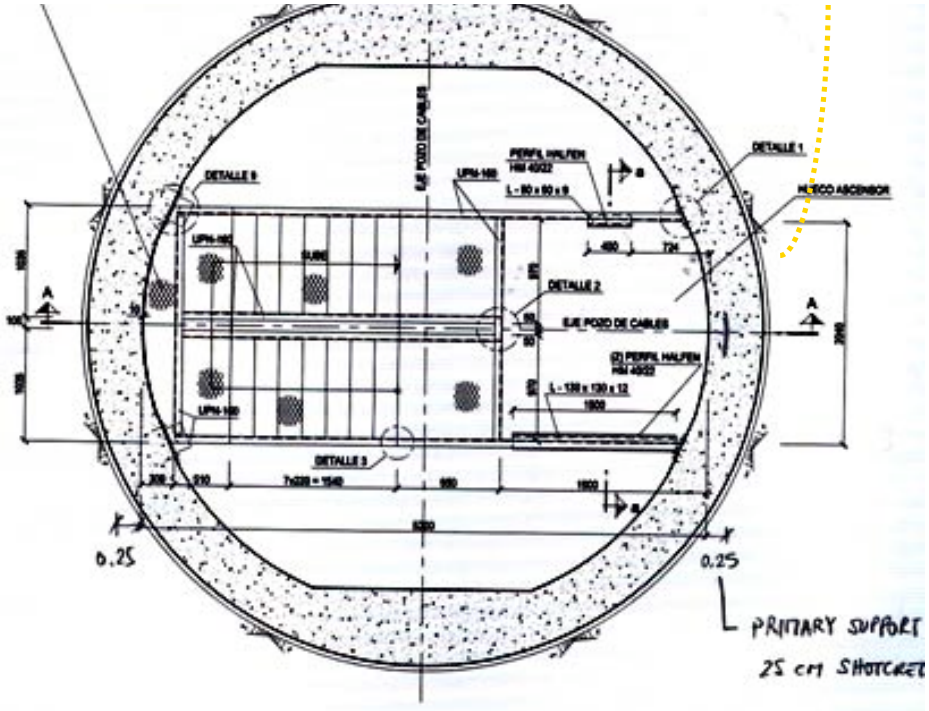
Fire protection system (regular)



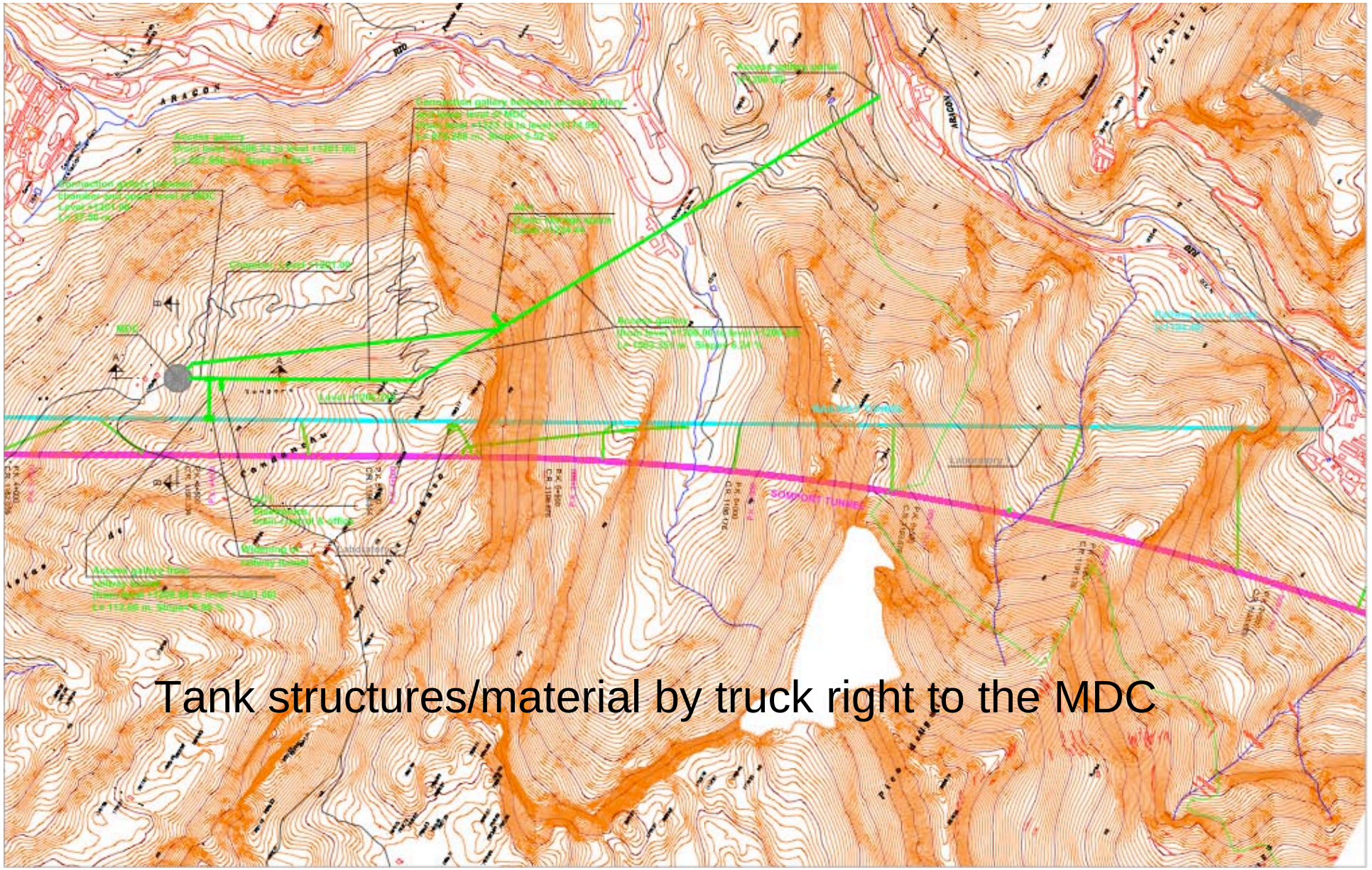




Shaft for connection to the Laboratory (elevator) and escape/evacuation (stair)

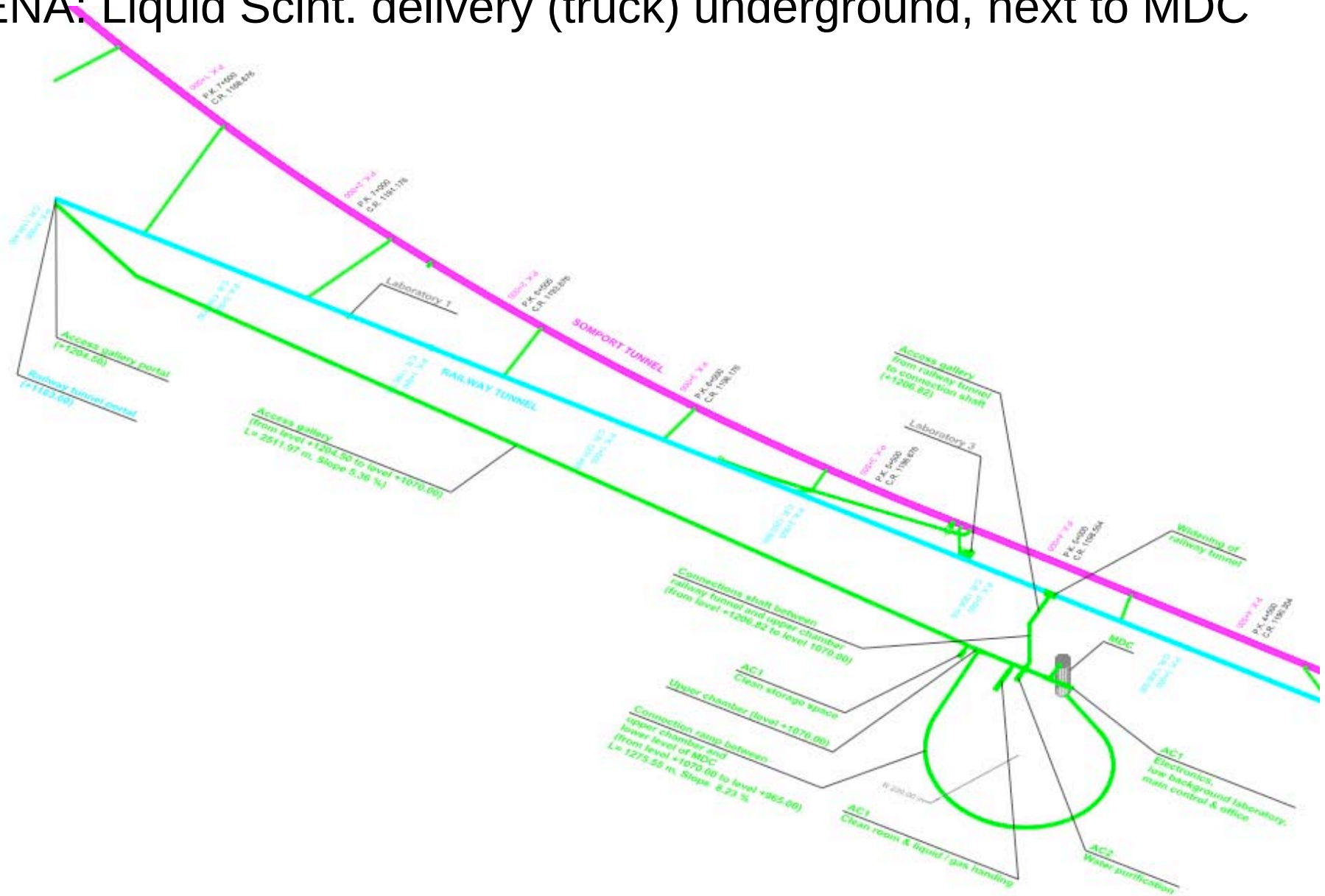


Glacier: LArg delivery (truck, “train?”) underground, next to MDC



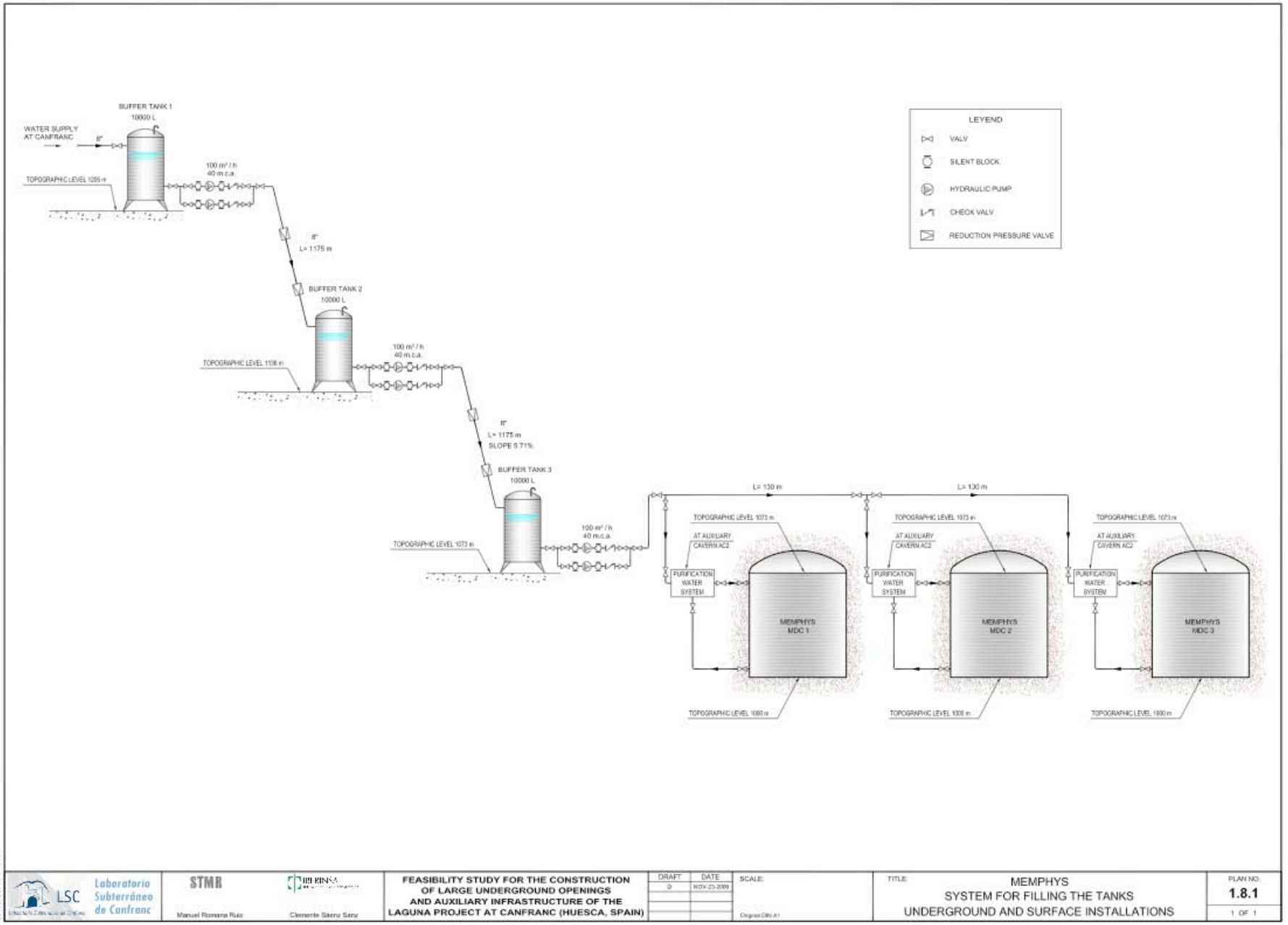
Tank structures/material by truck right to the MDC

LENA: Liquid Scint. delivery (truck) underground, next to MDC

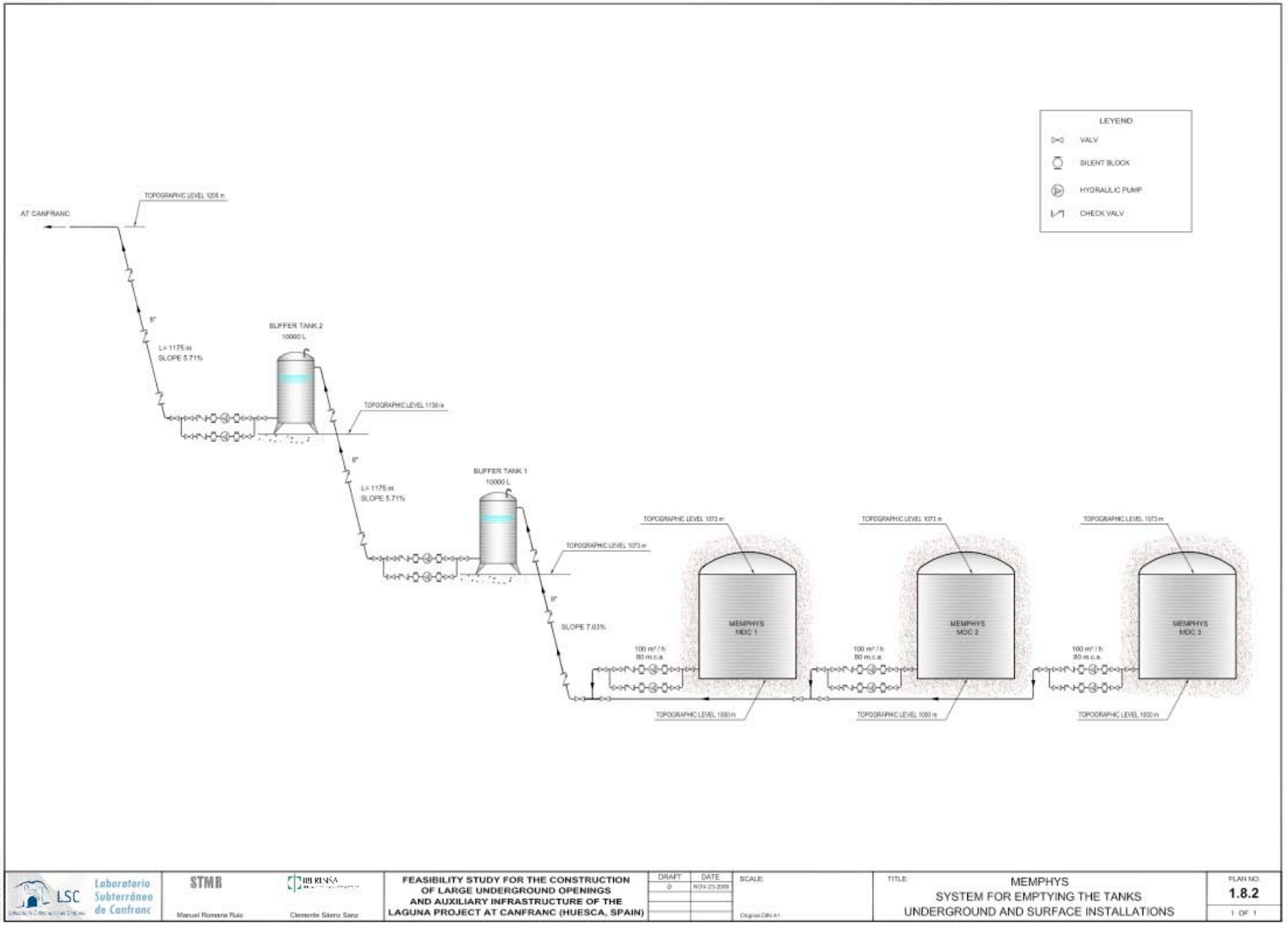


Tank structures/material by truck right to the MDC

Memphys: system for filling the tanks



Memphys: system for emptying the tanks



About waste:

LAGUNA Experiment	WASTE MATERIAL (mainly rock) IN M^3	REUSABLE AS AGGREGATE FOR CONCRETE
MEMPHYS	1.400.000 m^3	Not considered
LENA	371.000 m^3	Not considered
GLACIER	385.000 m3	75%

- Two sites are selected at less than 20 Km. with no environmental problems
- The places will be reforested like it was done for Somport tunnel waste rock sites