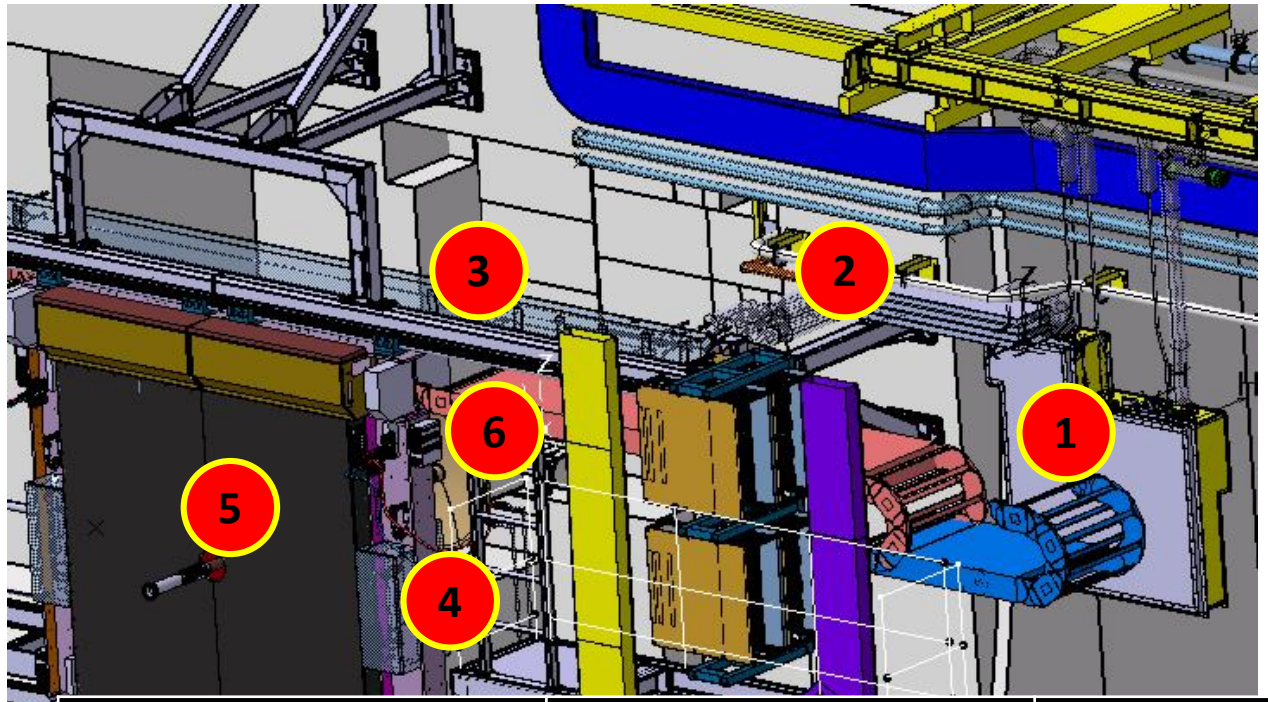
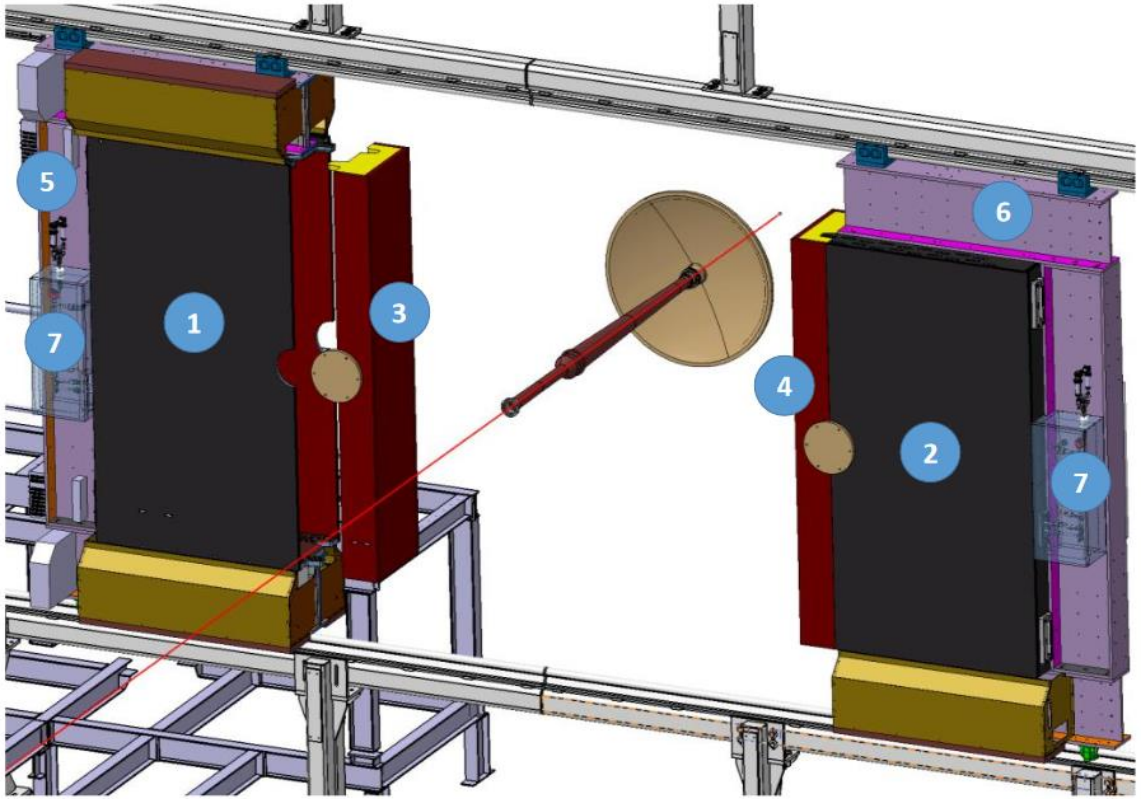
UT CO_2 schedule
LHCb CO_2 cooling meeting

https://indico.cern.ch/event/848625/



Part	Design	Procurement	Manufacturing	installation
1 - JB	done	done	done	done
2- piping	Insulation design			
3- “vacuum” piping	done	ongoing		
4- local box	Review design PID input from DT-FS	CERN DT-FS workshop?	November 2019?	Ideally when receive box (December 2019)
5- distribution in UT box	A-side in detailed design phase	Done C-Side	• Procuring Swagelok by CERN. November delivery • Capillary pipes ongoing	December when we receive UT box)
6 – piping 3 to 4	Flexible? Rigid?			

Procurement – UT box & C-frame



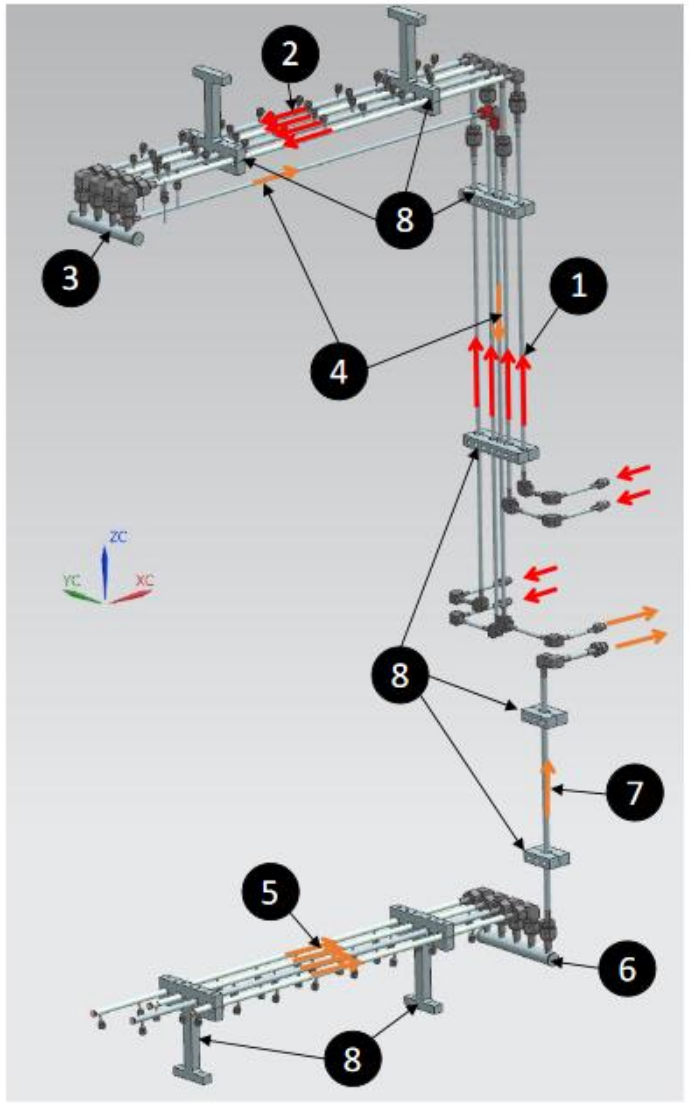
1. UT box C-side
2. UT box A-side
3. Protective cover C-side
4. Protective cover A-side
5. C-frame C-side
6. C-frame A-side
7. CO2 local box (4 items)

	Milestones	Weeks	Indicative Date
T_0	1. Notification of Contract to the Contractor; 2. CERN provides to the supplier a new set of conceptual drawings[2] and 3D models detailing solutions described in 3.4.		October 2019
T_1	The contractor shall submit for CERN's approval: 1. the manufacturing processes that are used for the supply components and molds/jigs; 2. the list of materials that are used in the supply and mold/jigs production.	T_0 + 1 week	October 2019
T_2	The contractor shall submit for CERN's approval: 1. the manufacturing drawings; 2. the manufacturing and testing schedules. The program shall include preliminary dates for inspections and tests; 3. all other documentation mentioned in section 4.1.	T_0 + 3 weeks	October 2019
T_3	The contractor shall deliver to CERN's the Supply, molds and jigs, and the documentation mentioned in section 4.2.	T_0 + 8 weeks	December 2019

Spec and drawings: https://edms.cern.ch/document/2206154

- Supplier notified;
- Input for CO2 local boxes required to design feedthroughs

Procurement – CO2 manifolds



1. Inlet lines (4 items)
2. C-side top manifolds (4 items)
3. C-side top collector
4. Bypass line
5. C-side bottom manifolds (4 items)
6. C-side bottom collector
7. Outlet line
8. Mechanical supports (8 items)

	Milestones	Weeks	Indicative Date
T_0	1. Notification of Contract to the Contractor; 2. CERN provision of final manufacturing drawings to produce the C-side CO_2 distribution		September 15th 2019
T_1	1. Delivery of Documentation as described in § 4.2	$T_0 + 2$ weeks	September 30th 2019
T_2	1. Delivery of the CO_2 distribution for the C-side	$T_1 + 4$ weeks	October 30Th 2019

- Documentation already provided to supplier;
- CERN ordered raw materials (to avoid 14 week for procurement of parts)
- Expected delivery of C-side : 2week November

Spec and drawings: https://edms.cern.ch/document/2195086

Local boxes

Additional openings needed?

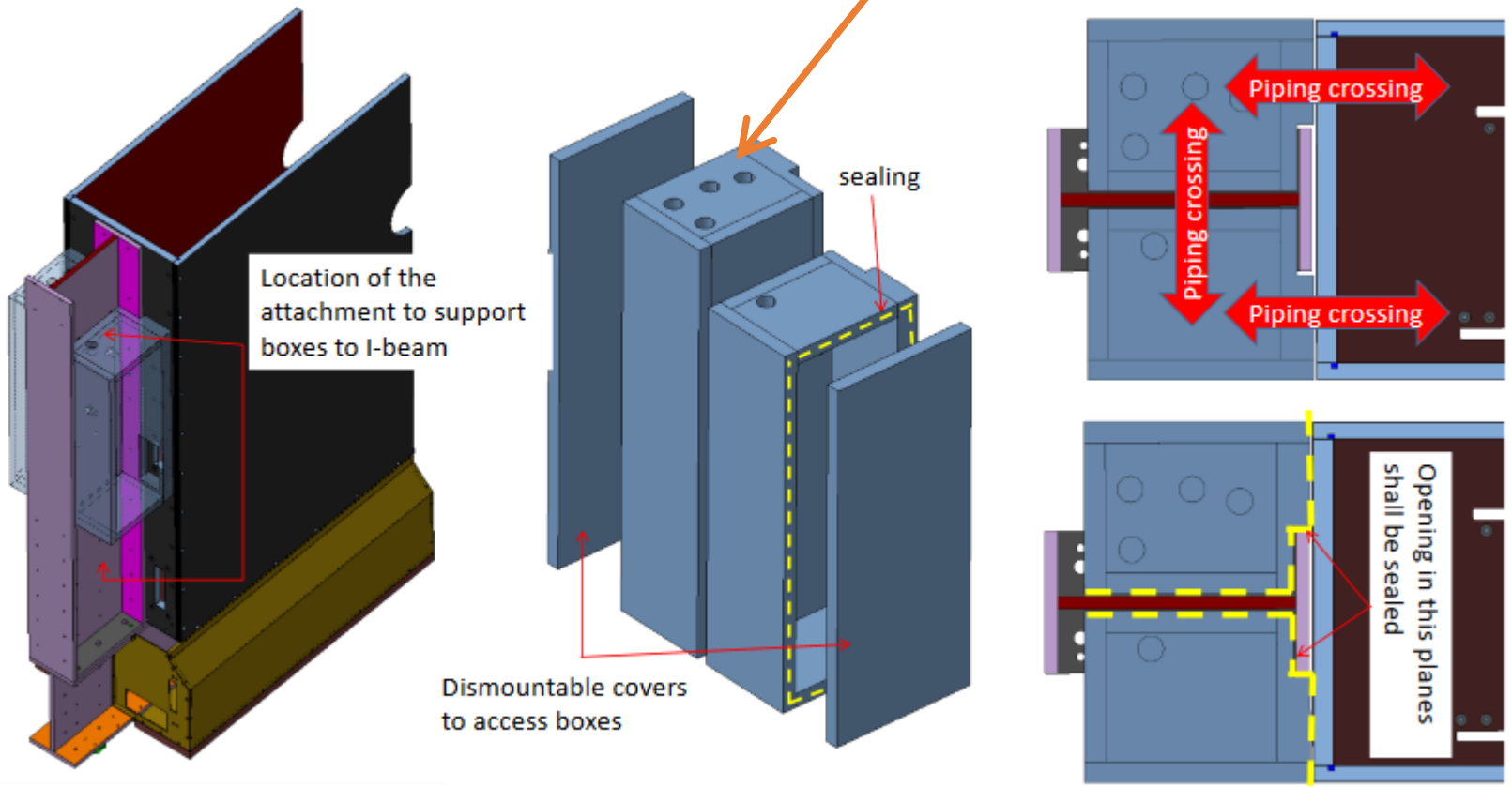


Figure 20: Local CO_2 boxes