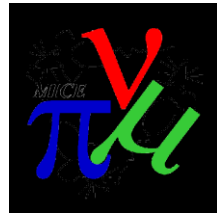


PRY Base - Contents

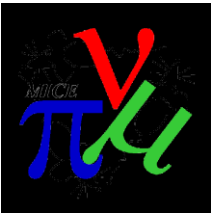


Jason Tarrant – Integration Engineering

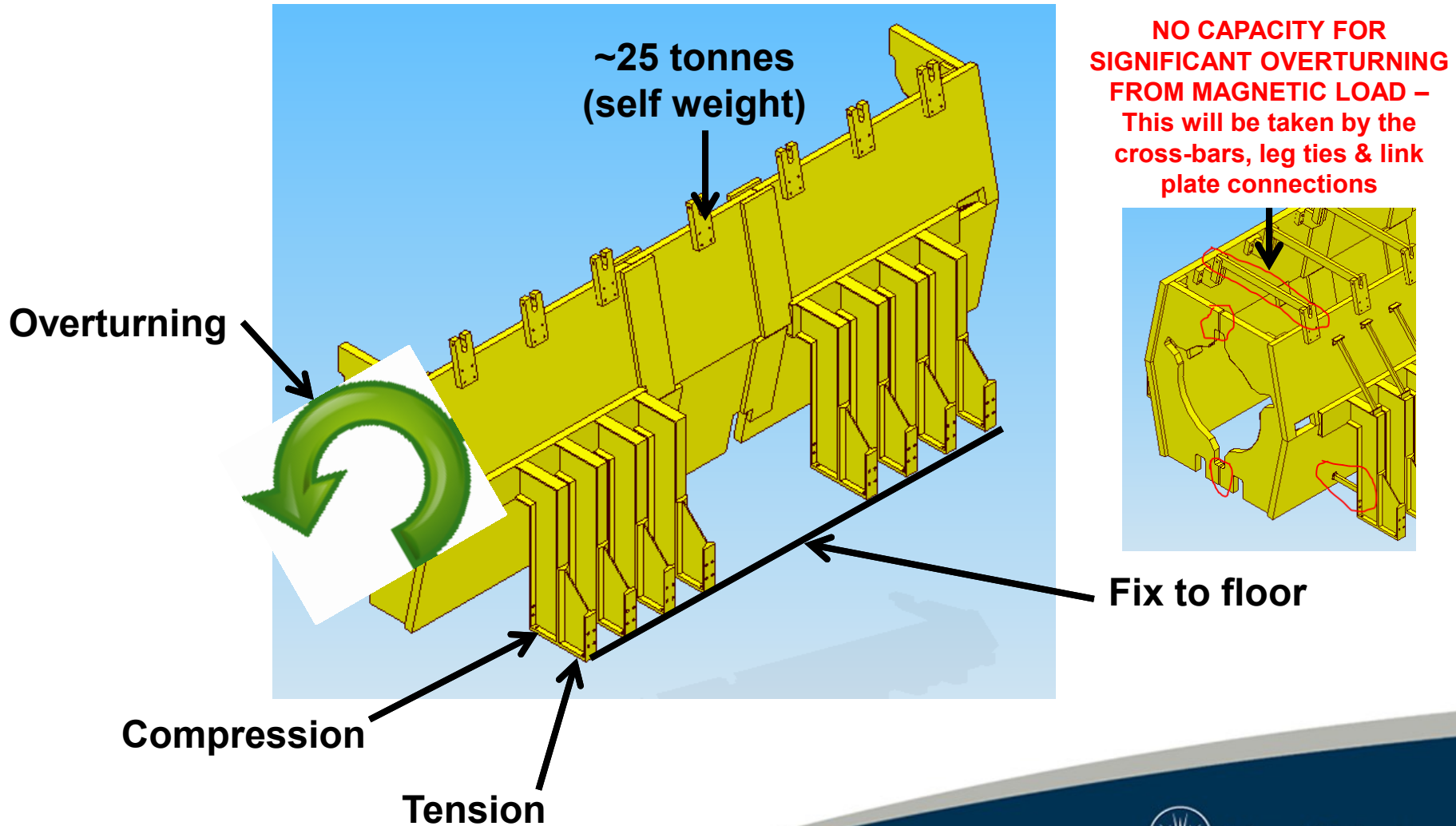
- PRY Support/Base/Platform in the MICE Hall
 - Requirements
 - Environment
 - Design
 - Structural Integrity
 - Preparation
 - Installation
 - Absorber Change
 - Schedule
 - Conclusion



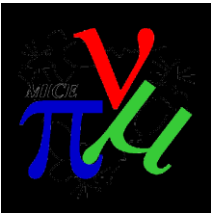
PRY Base - Requirements



- Requirements – Load (before cross-bars added)



PRY Base - Environment



- Requirements
– North side

Edge of floor / trench

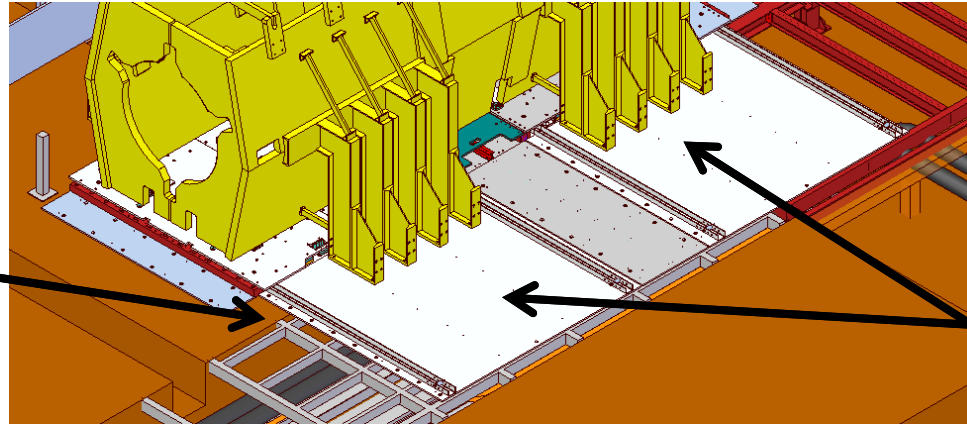
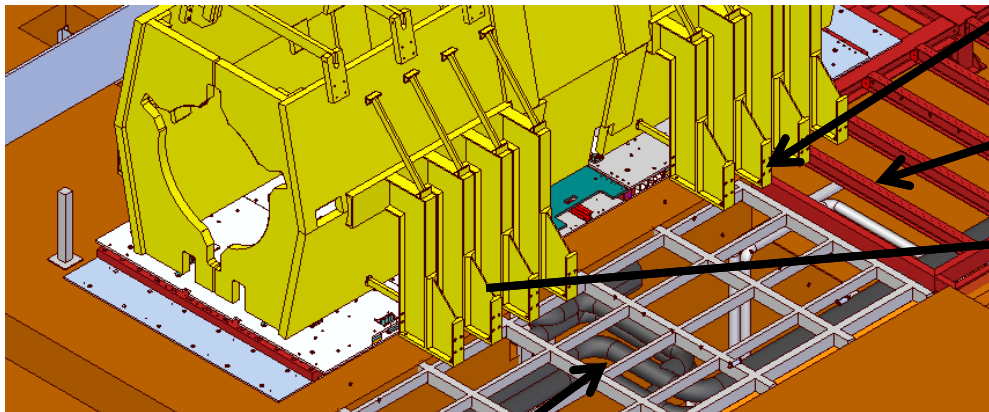
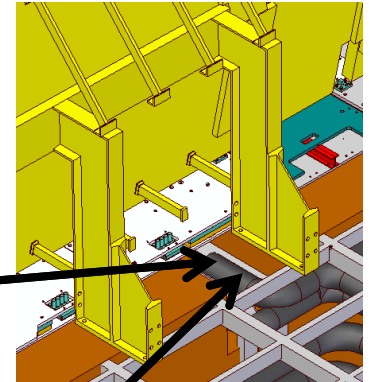


Plate roof on north side



Trench ends

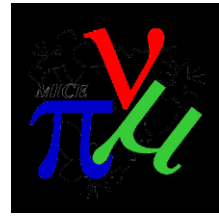
False floor



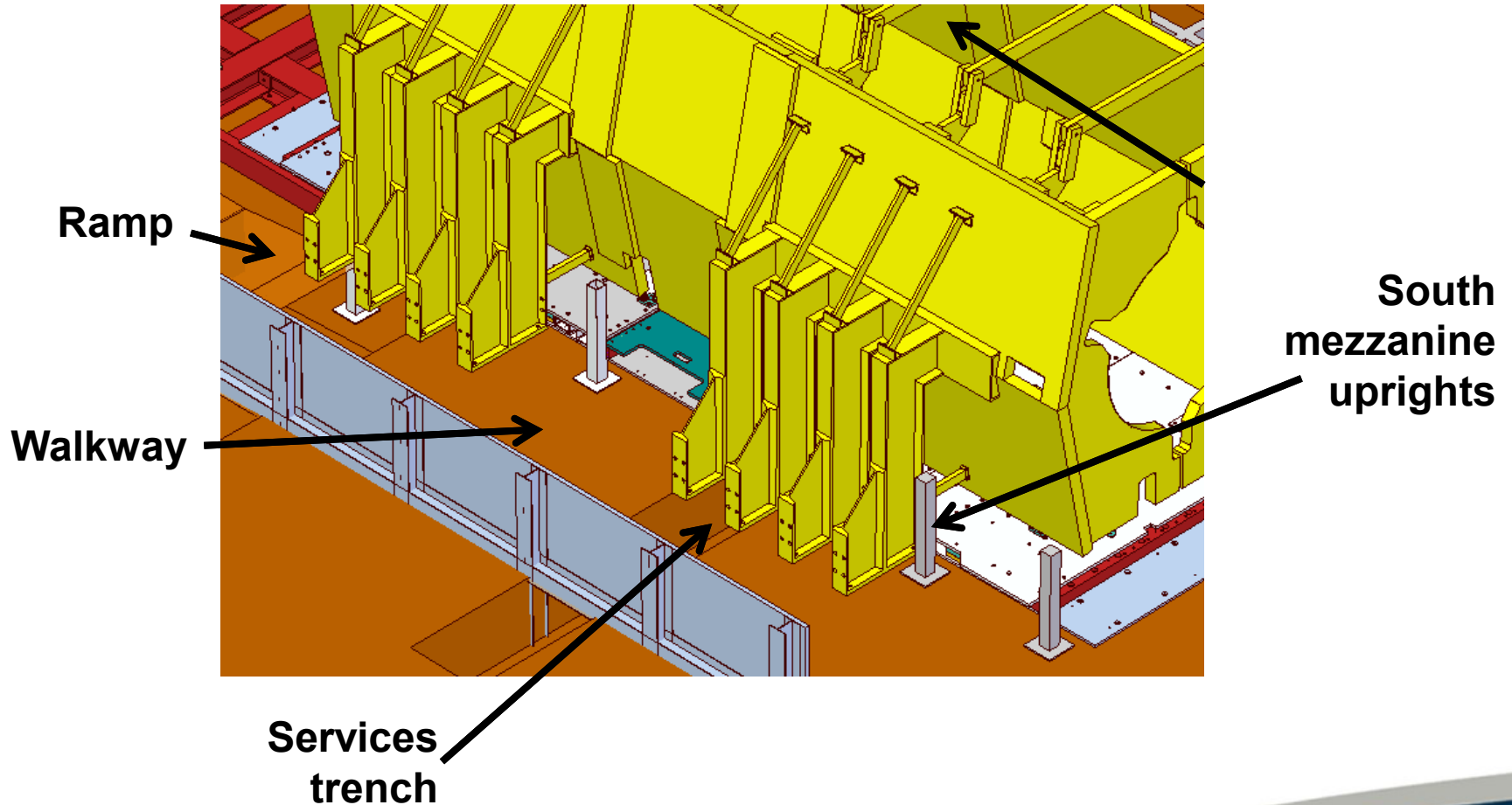
Services trench directly under leg

Services in trench on wall and ceiling

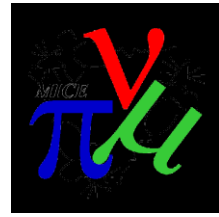
PRY Base - Environment



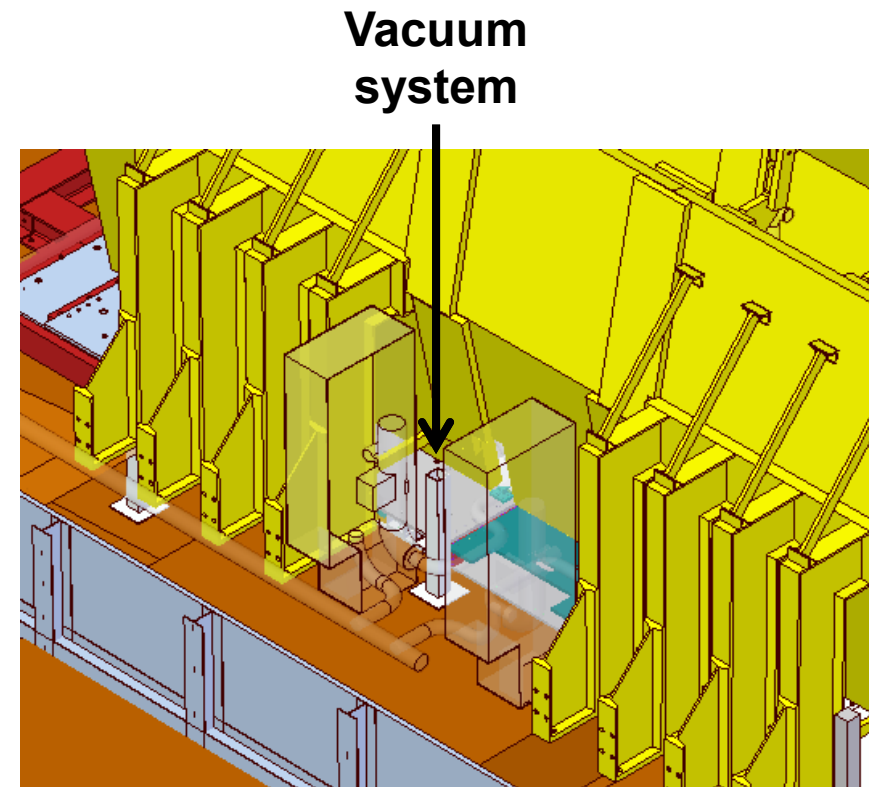
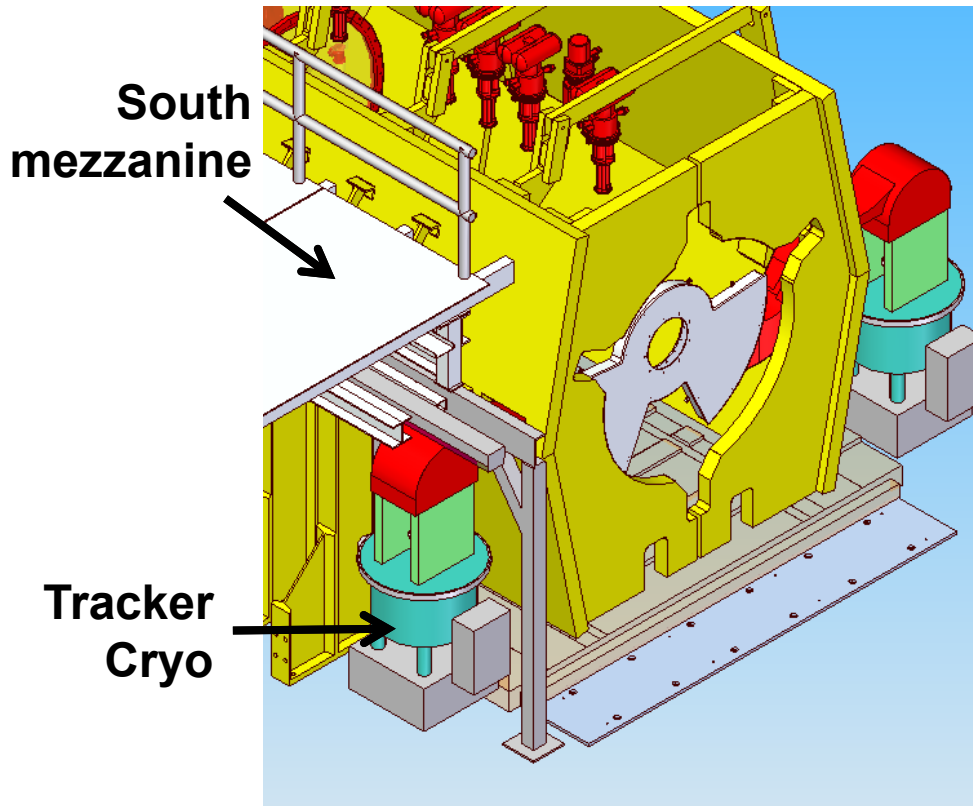
- Requirements
 - South side



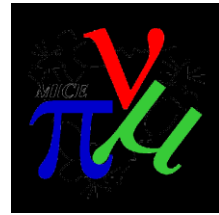
PRY Base - Environment



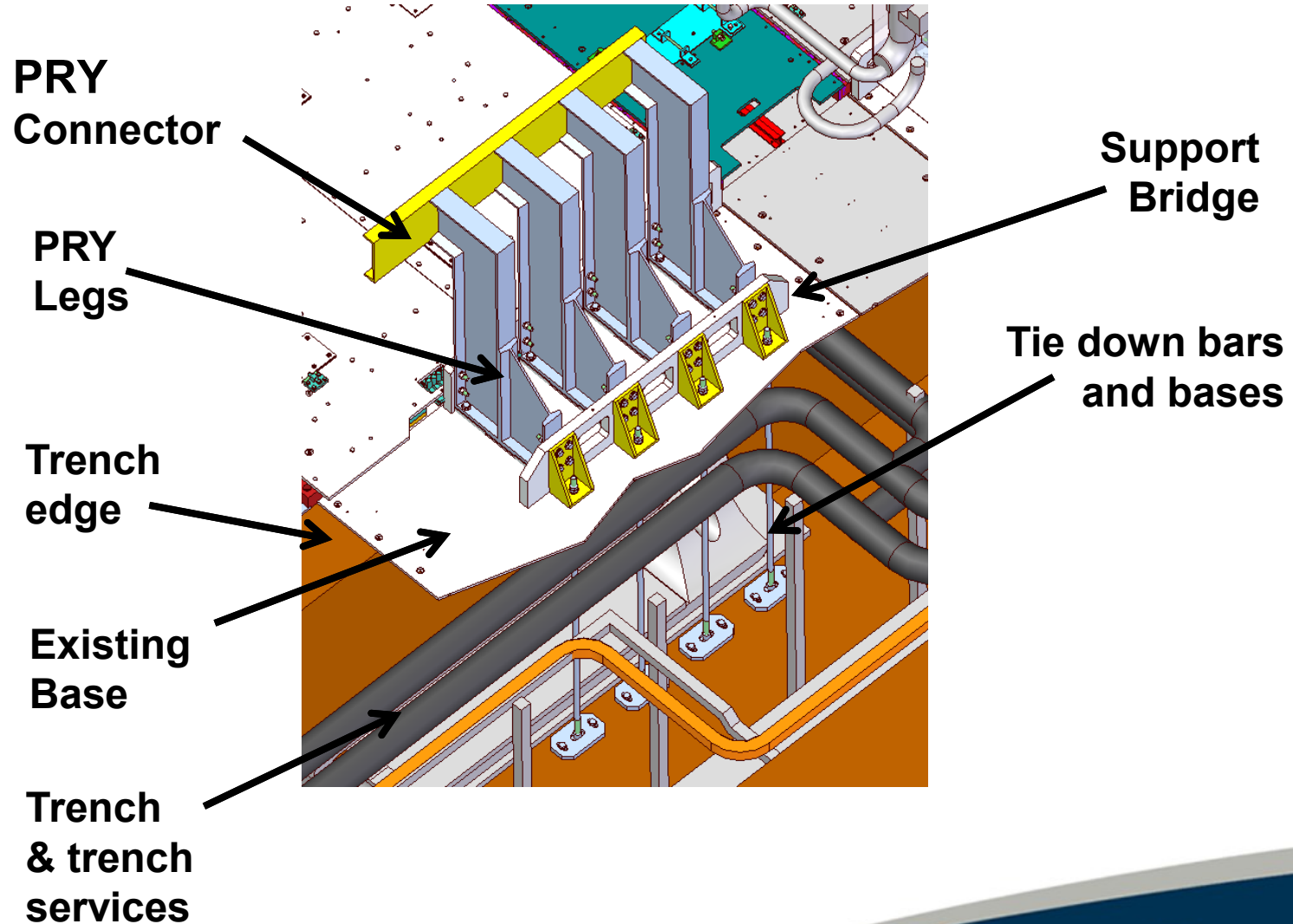
- Requirements
- Services



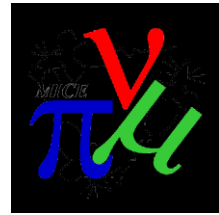
PRY Base - Design



- TD-1189-2090 - North East Quadrant



PRY Base - Design



- TD-1189-2090 – North West Quadrant

PRY
Connector

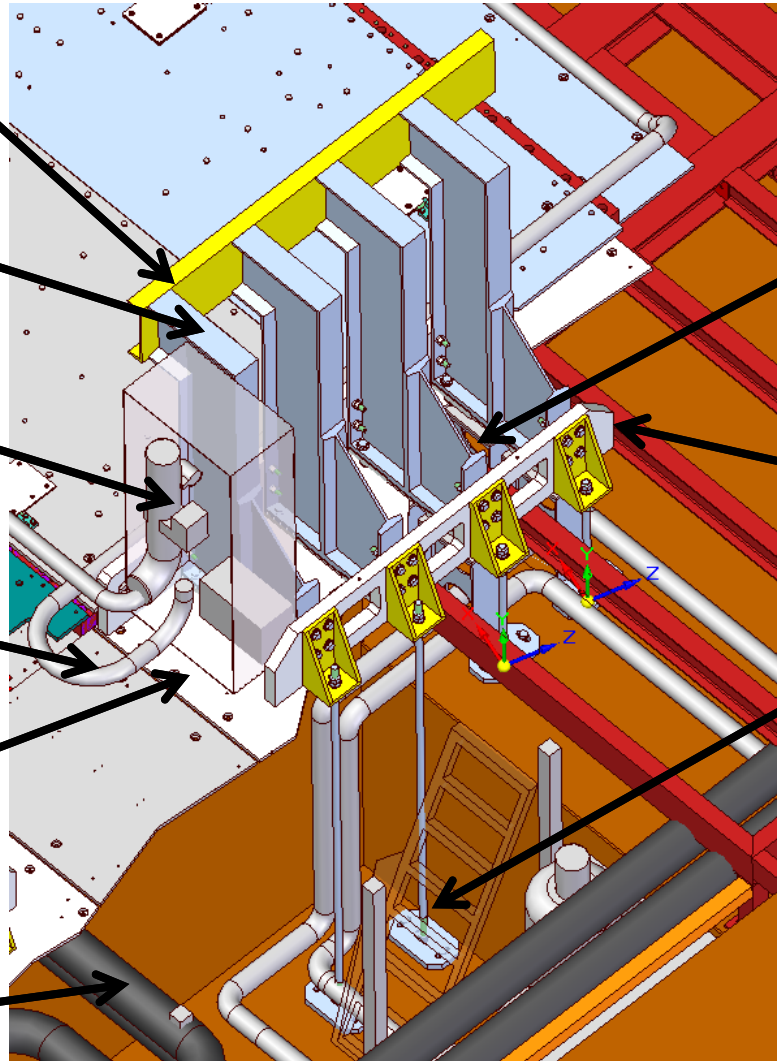
PRY
Legs

Vacuum
system
(installed
later)

Trench
edge

Existing
Base
(shown
cutaway)

Trench
& trench
services

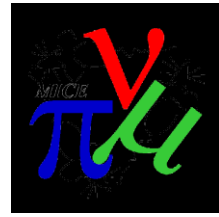


Short
columns
where
raised
floor ends

Support
Bridge

Tie down bars
and bases

PRY Base - Design



- TD-1189-2090 – South West Quadrant

PRY
Connector

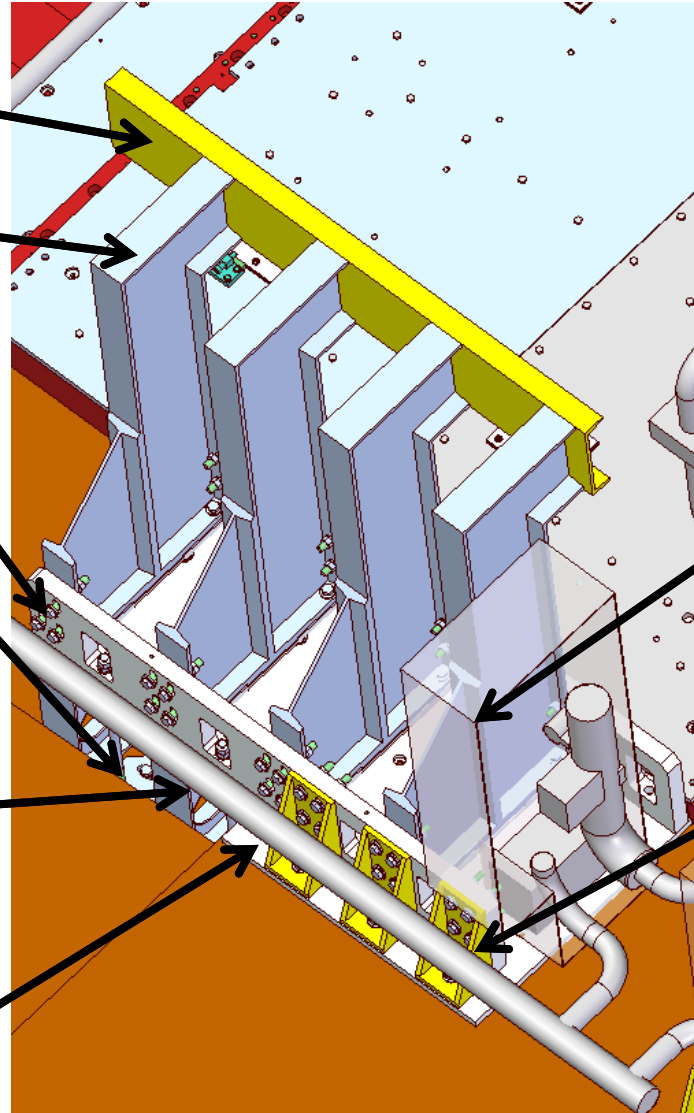
PRY
Legs

Support
Bridge

Tie down
bars and
bases

Short
columns
where
raised
floor ends

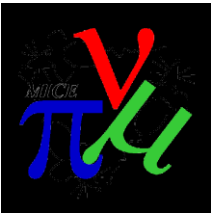
New base /
platform



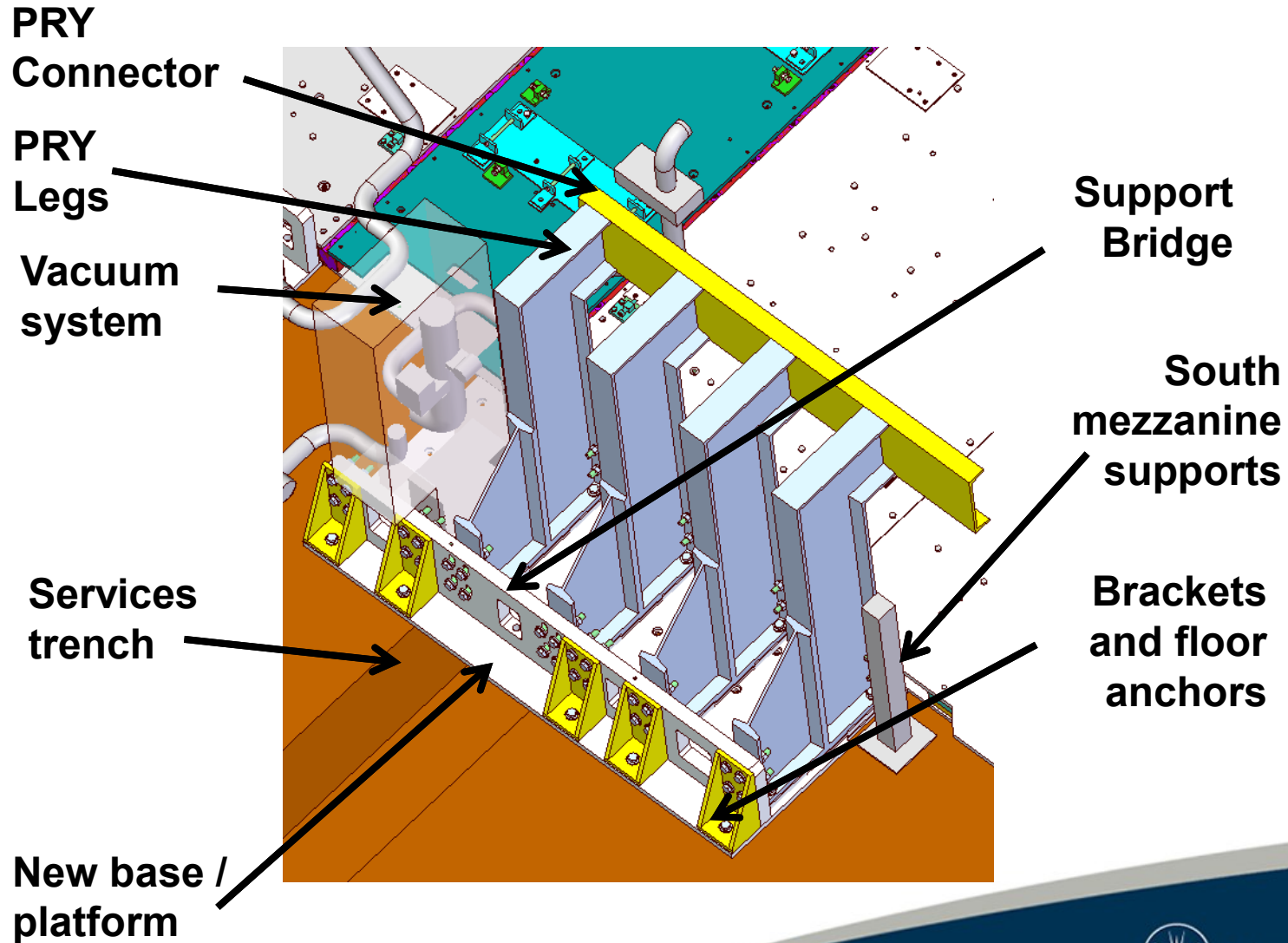
Vacuum
system

Brackets
and floor
anchors

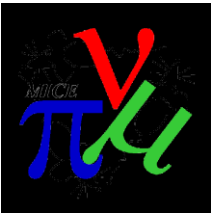
PRY Base - Design



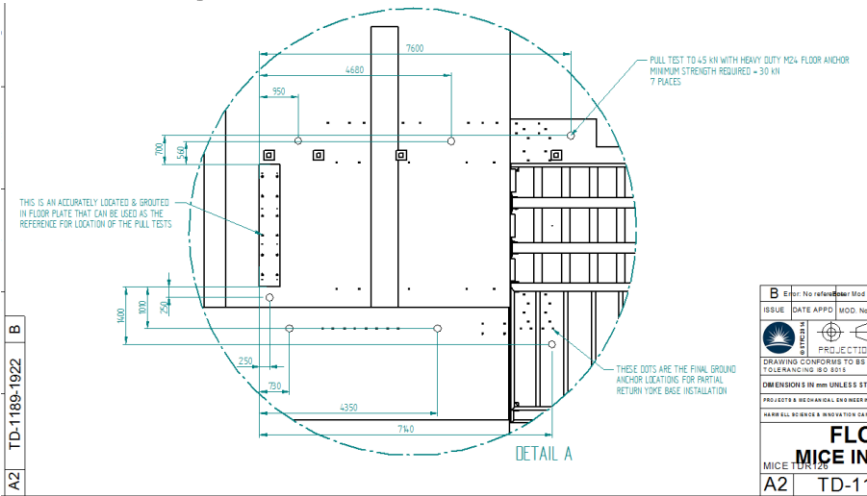
- TD-1189-2090 – South East Quadrant



PRY Base - Structural Integrity

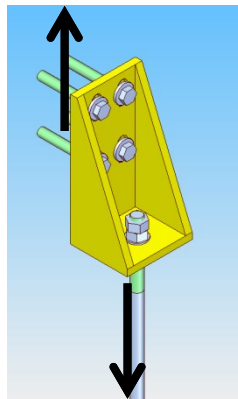
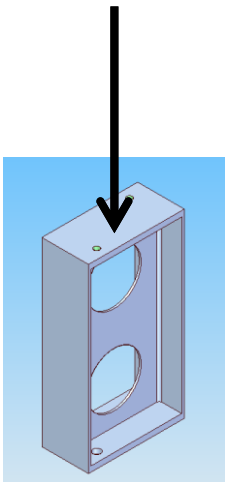
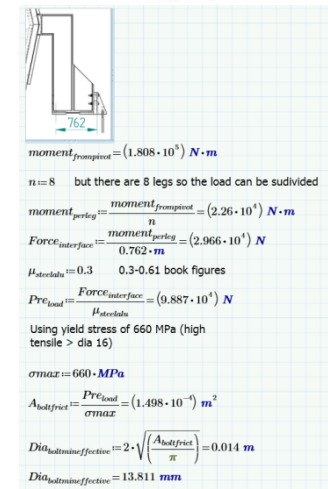
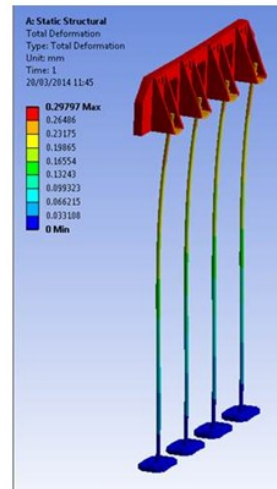
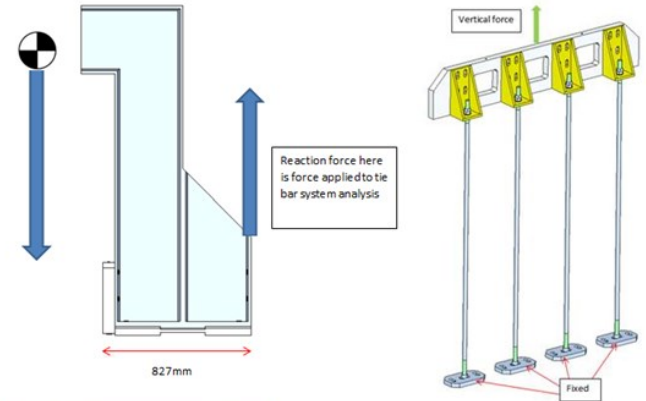


Testing



Floor anchor pull out (TD-1189-1922)

Analysis & calculation



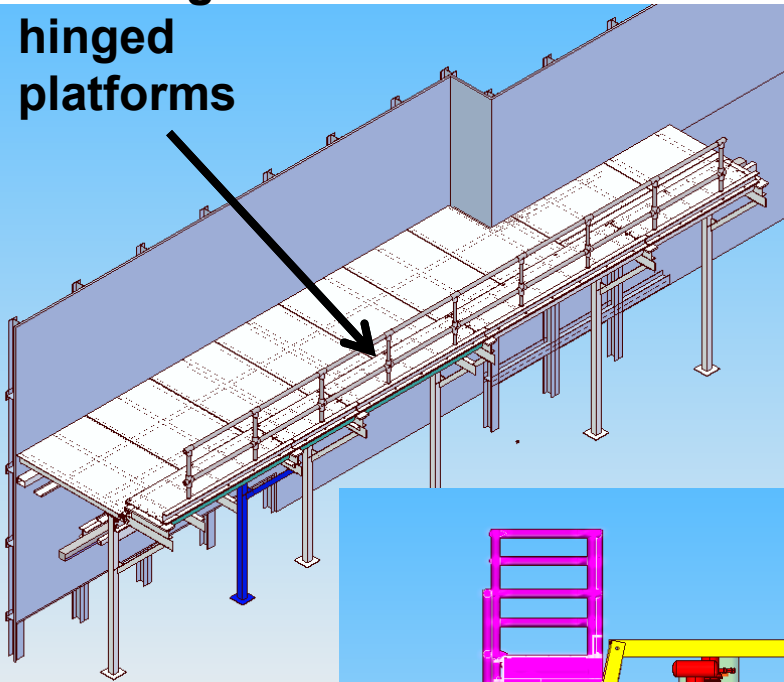
Component load tests

PRY Base - Preparation



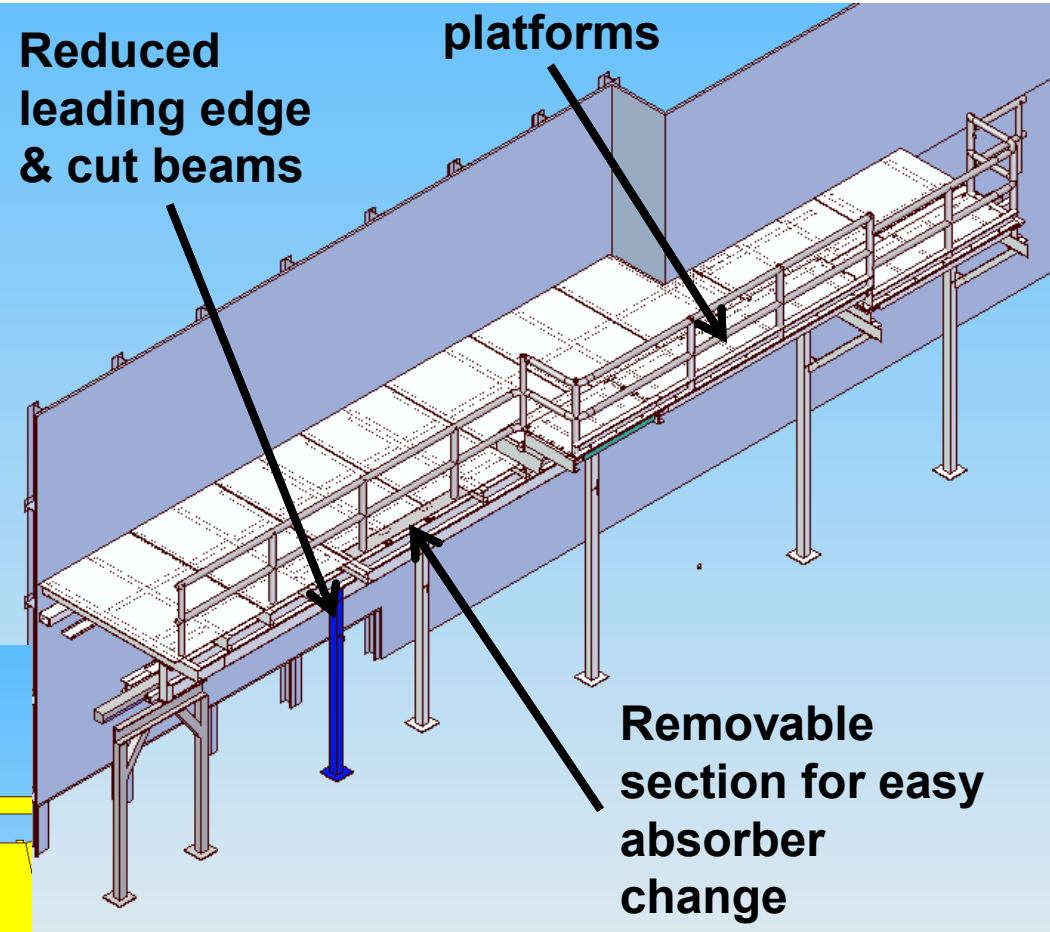
- South Mezzanine

Full length of hinged platforms



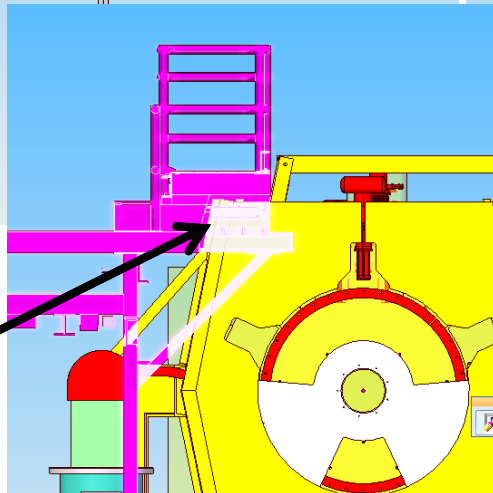
Reduced leading edge & cut beams

Raised platforms

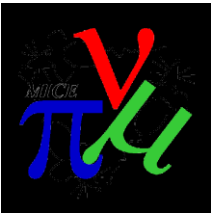


Removable section for easy absorber change

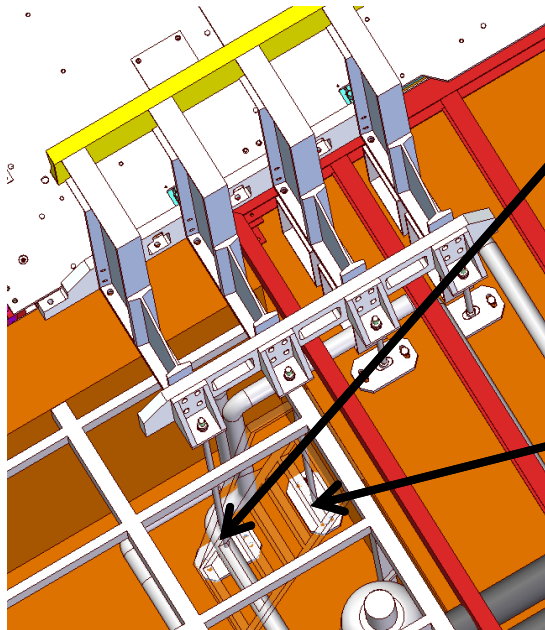
Fit around PRY



PRY Base - Preparation

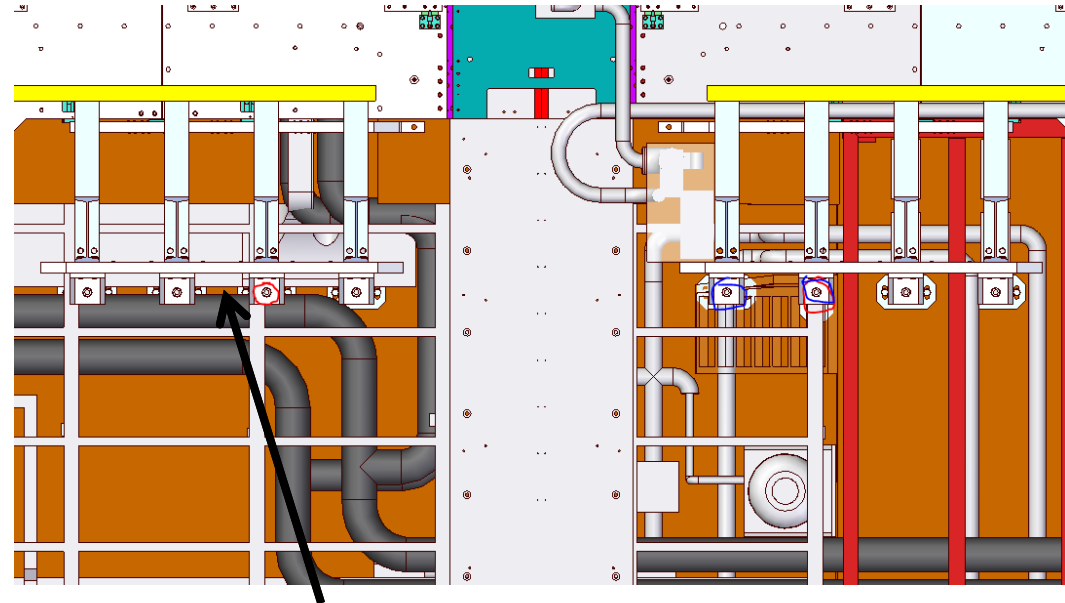


- Trench



Water circuit move

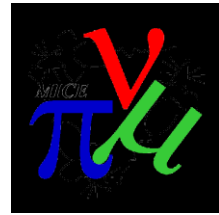
Ladder move and change



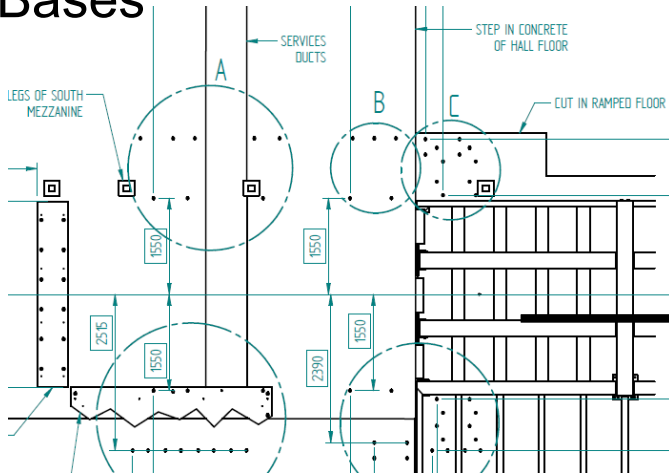
North-east tie bars pass between trench services (water and ISIS cables)



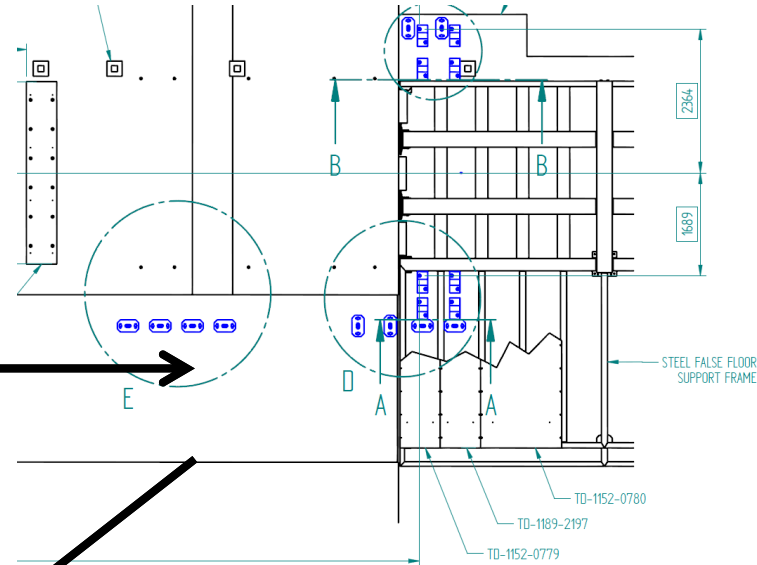
PRY Base - Installation



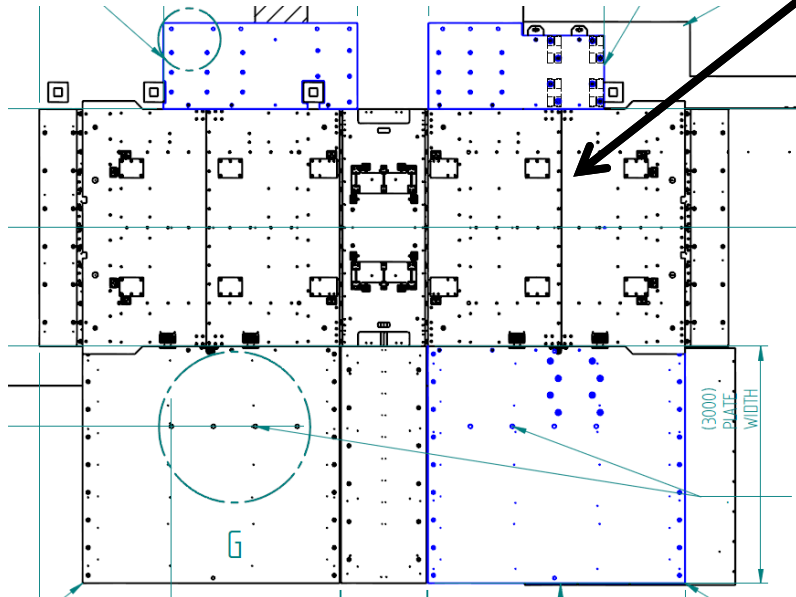
- Bases



Floor anchors (TD-1189-2152)

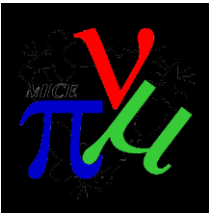


Pillars, tie plates & sub-floor (TD-1189-2153)

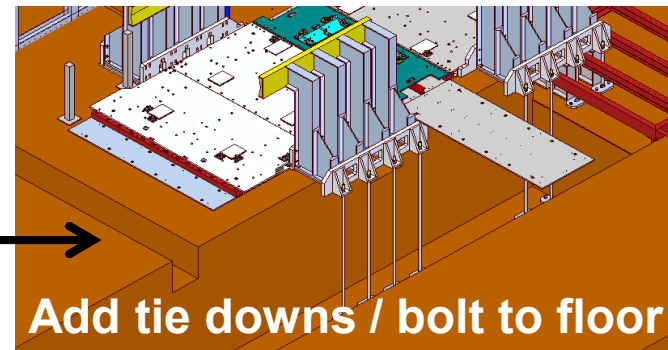
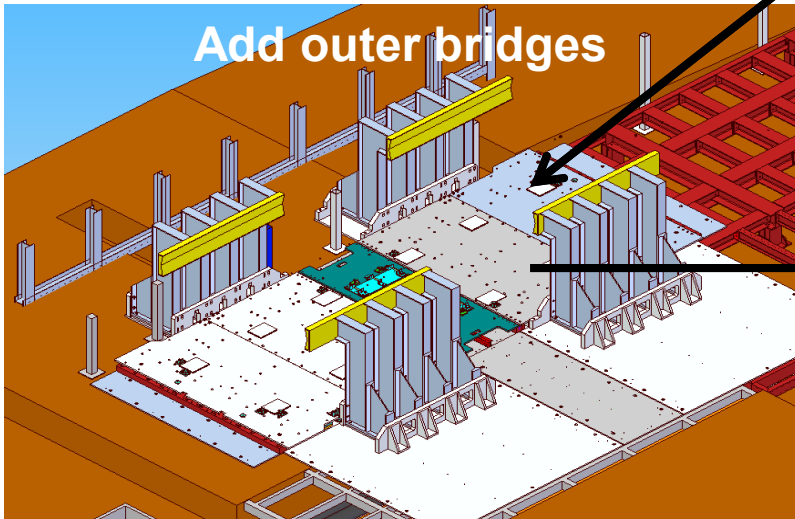
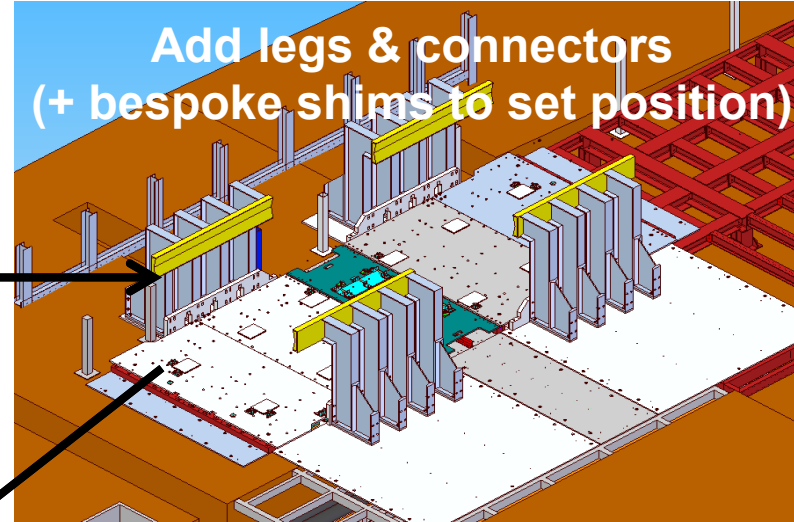
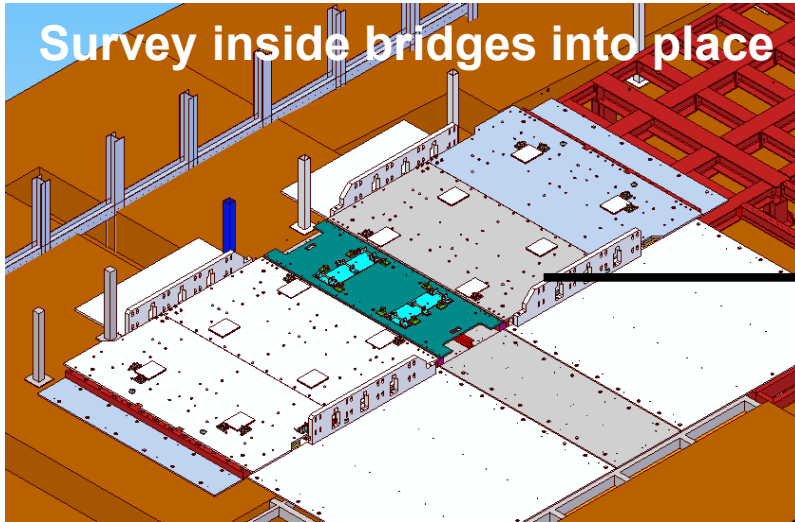


Top plate installation (blue) & hole drilling (TD-1189-2136)

PRY Base - Installation

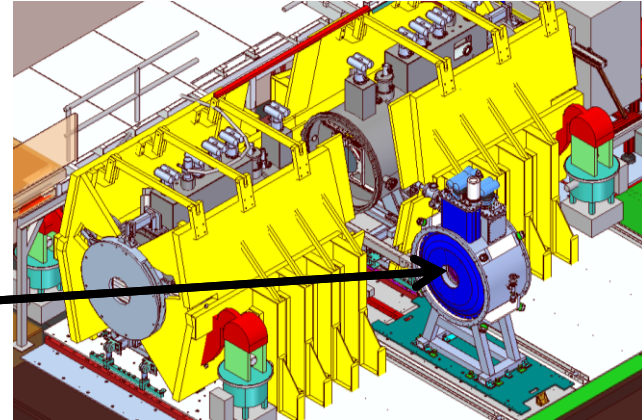
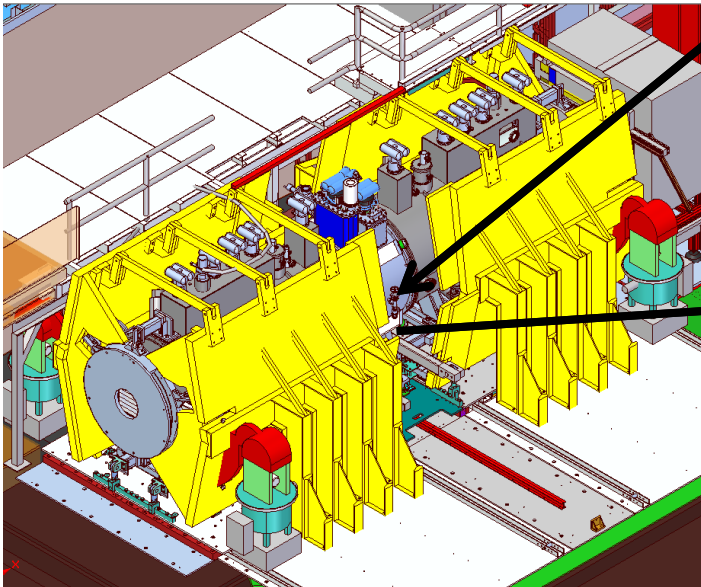
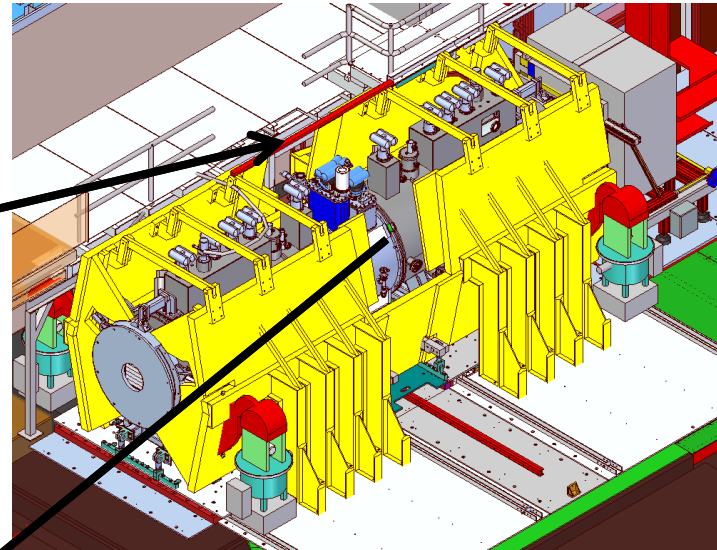
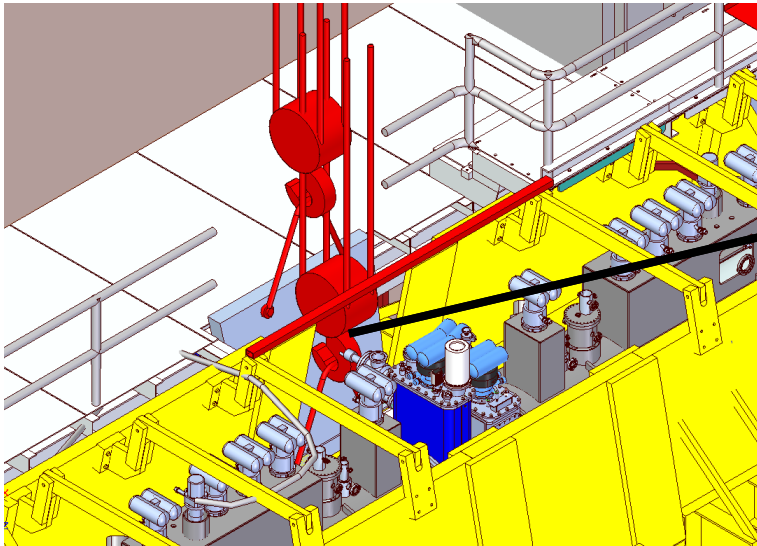
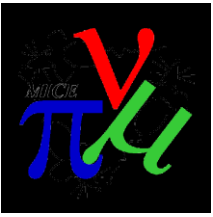


- Installation

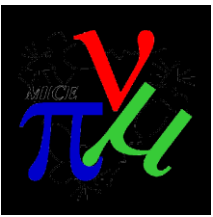


PRY Base - Absorber Change

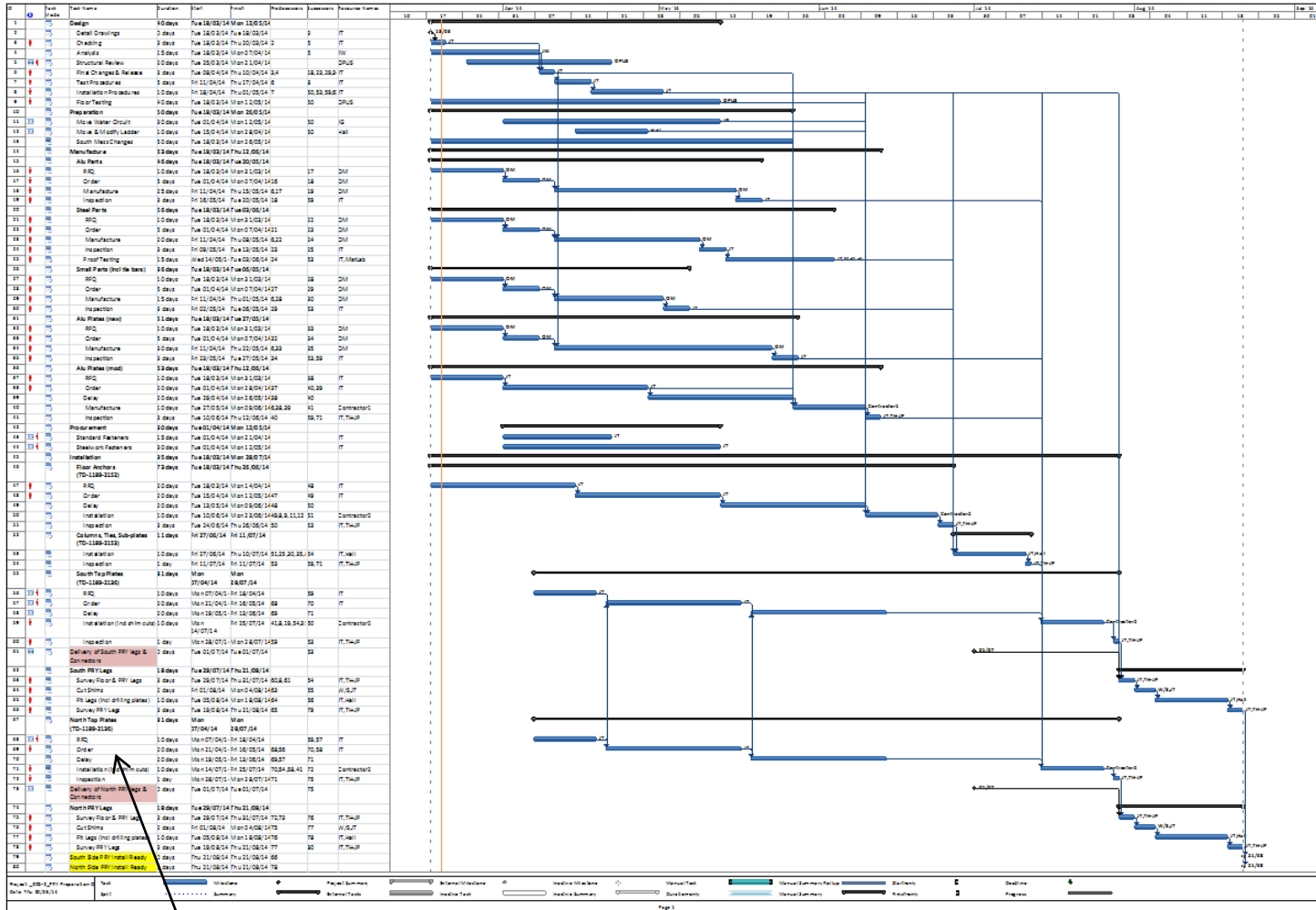
- Absorber change



PRY Base - Schedule

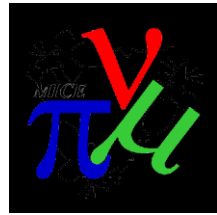


Schedule



Prep for frame by July 2014, PRY install by end Aug 2014

Conclusion



- Design done (top level = TD-1189-2152,2153,2136 & 2090)
- Calculation and analysis shows OK for self weight only (not magnetic load) in terms of stress and strain
- Piece parts out for manufacturing quotation
- South mezzanine structural engineering drawings near completion (OPUS)
- RFS placed for floor quality tests
- Load testing on critical parts will be undertaken
- Possibility of strain gauges on critical parts as per main PRY (H Witte investigating)
- Schedule currently predicting manufacture, prep and install to coincide with PRY delivery (final install dependant on PRY frame delivery)