

# sPHENIX Construction Update

Status of activities needed before sPHENIX is rolled out into the IR



1008 AH magnet installation



1008 IR tracks upgrade



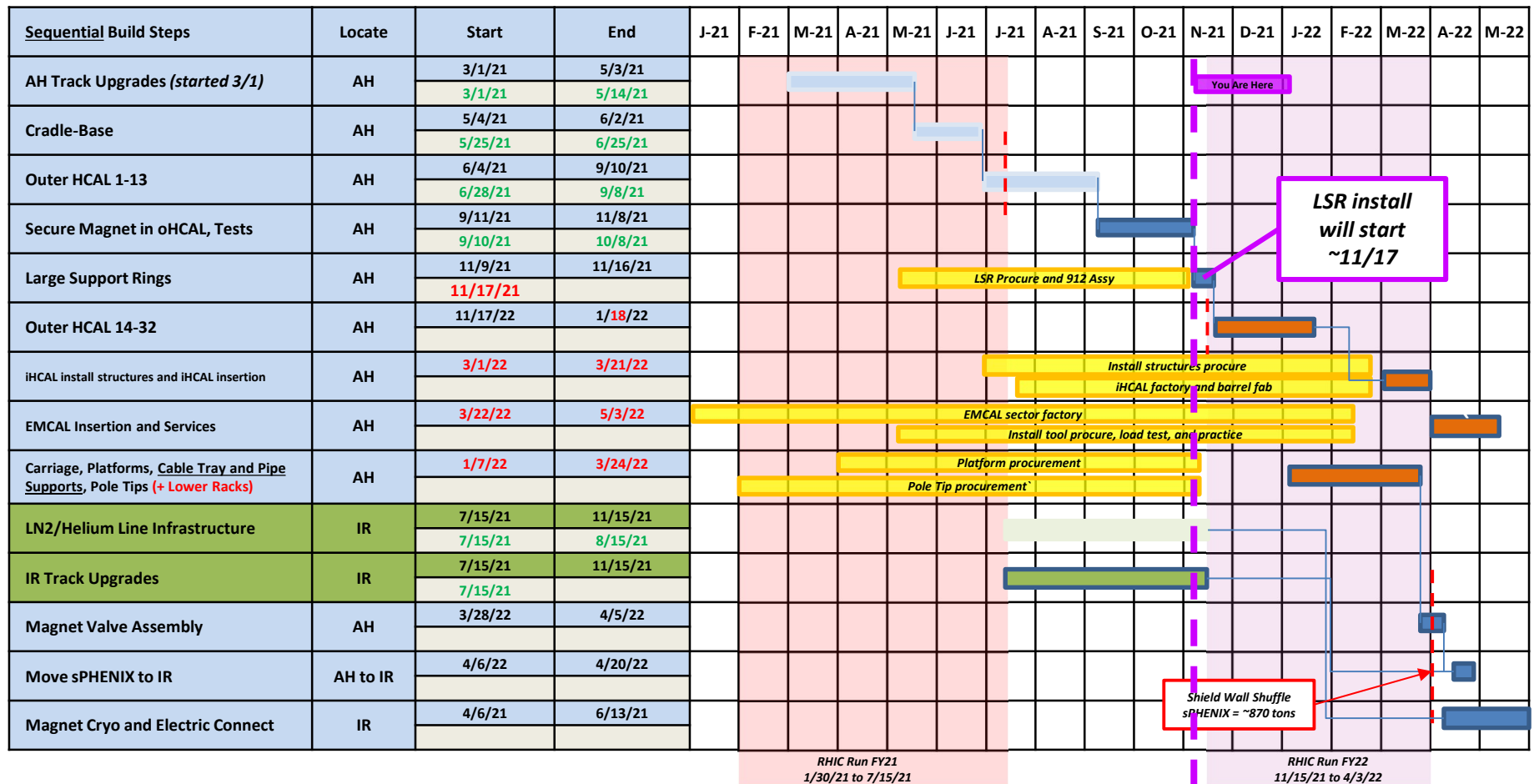
LSR assembly in 912

# sPHENIX AH Installation Schedule

Updated 10/13/21

Baseline Dates from Aug 21' PCR  
Actual Dates

6/4/21	9/10/21
6/28/21	9/8/21



## What needs to happen before sPHENIX moves to the IR ?

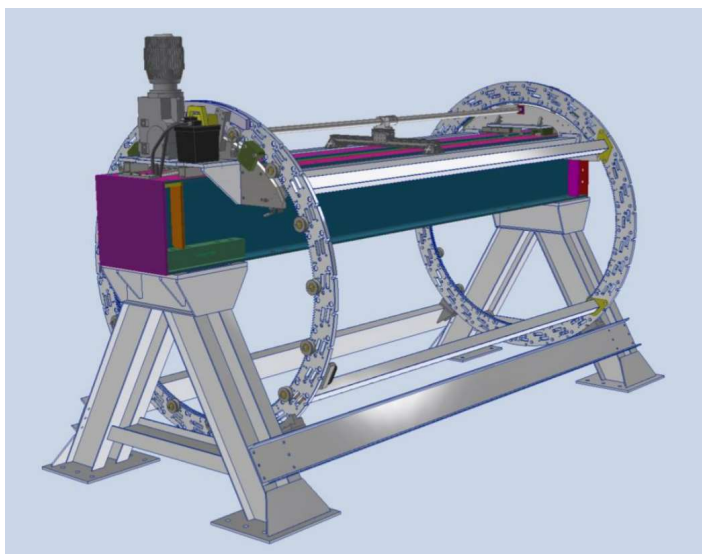


Milestones required to roll into the IR	Work to go, pre-requisites	Notes
AH and IR track upgrades	Complete	
IR cryo-piping upgrades	Complete	
Install Inner HCAL	<del>Cradle-Base</del> → oHCAL 1-13 → <del>Magnet</del> → LSRs → oHCAL 14-32 → <b>iHCAL</b> <b>install structures (see next slide)</b>	<ul style="list-style-type: none"> <li>• LSR install start 11/15-ish</li> <li>• 1/18/22 baseline oHCAL completion</li> <li>• EMCAL install can start when iHCAL is complete, but can all be done in the IR</li> </ul>
Install Pole Tip Doors	<ul style="list-style-type: none"> <li>• Build the carriage and platforms</li> <li>• Prep required racks</li> </ul>	<u>Carriage Deliveries (Streck's)</u> <ul style="list-style-type: none"> <li>• primary posts and beams on 1/7/22</li> <li>• pole tip doors on 1/18/22</li> <li>• remaining components by 2/8/22</li> </ul>
Install magnet valve box		
Install west lower and mid level racks		
Install west IR stairwell in IR	Procurement complete	Need some engineering for stairwell interface with IR tracks and floor

## Status of iHCAL installation structures

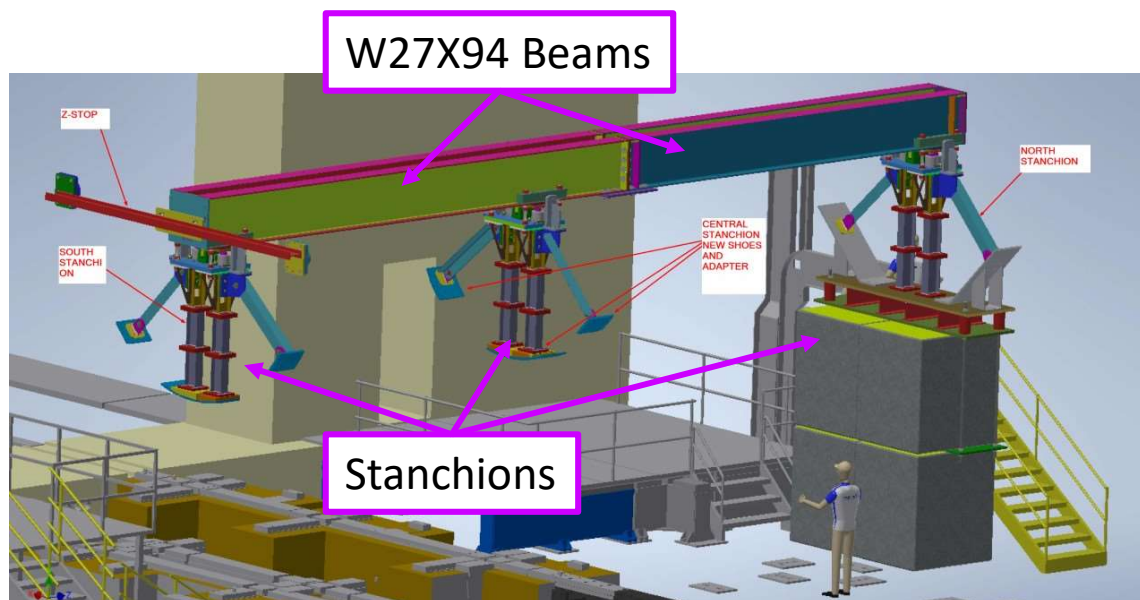
### iHCAL Barrel Fabrication Rig

- All components arriving by 12/3
- ~2 weeks to assemble, test and start building barrel
- Instrumented and tested iHCAL sectors will be ready when needed in mid to late December



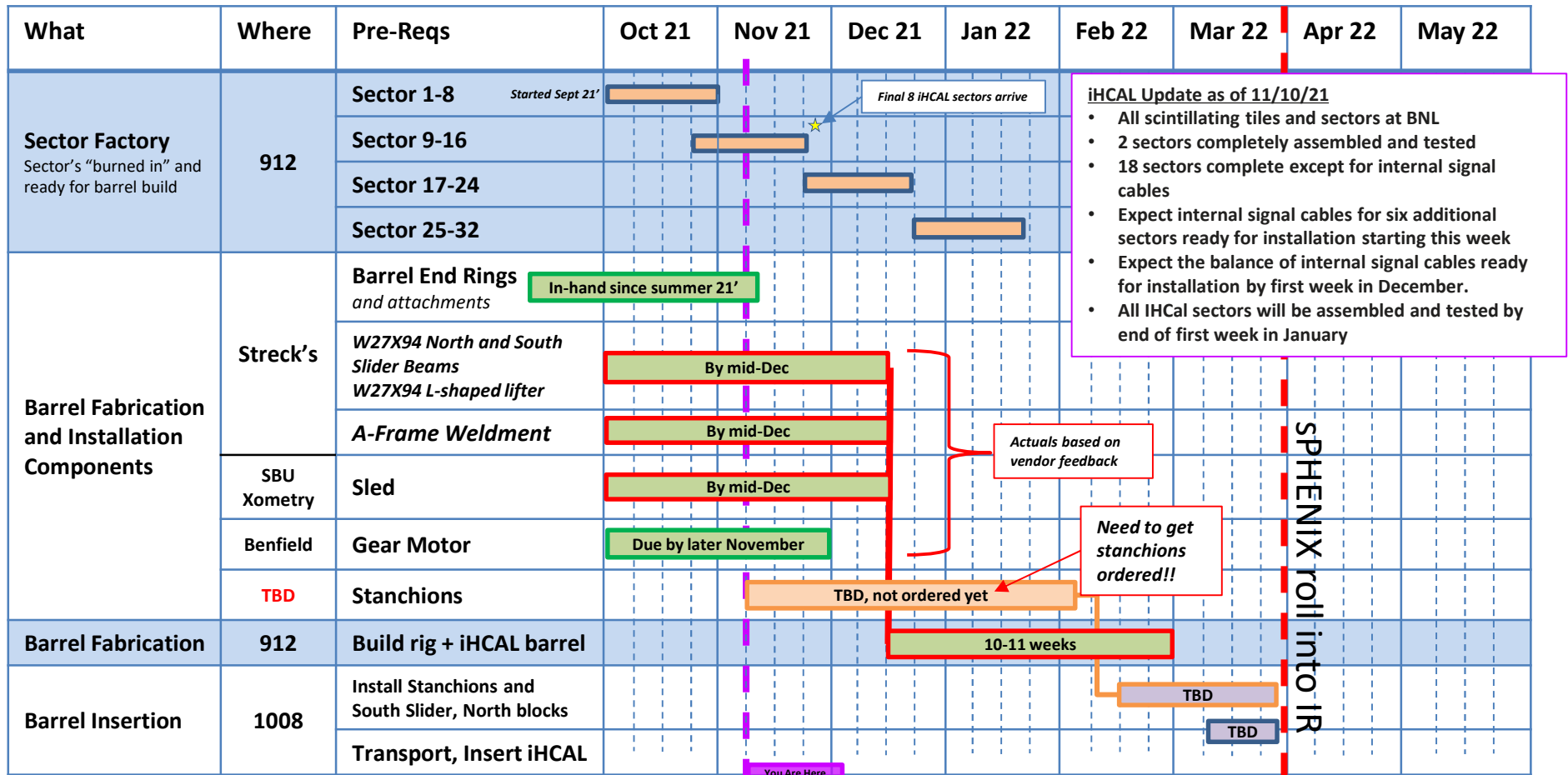
### iHCAL Installation Beams and Stanchions

- All W27X94 beam weldments are on order and will arrive by early January
- Stanchion component procurement *just starting. Need by early February.*



# iHCAL Assembly Schedule → Need to keep things moving

*SPHENIX can not move into IR at end of FY22 run until iHCAL is inserted*



# sPHENIX IR Installation Schedule



Updated baseline from Aug 21' PCR

