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# Assembling a Project Schedule

February 2<sup>nd</sup>, 2017

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# “Failing to plan is planning to fail”

by J. Hinze, *Construction Planning and Scheduling*

## Planning:

- > “what” is going to be done, “how”, “where”, by “whom”, and “when”
- > for effective monitoring and control of complex projects

# “Its about time”

by J. Hinze, *Construction Planning and Scheduling*

## Scheduling:

- > “what” will be done, and “who” will be working
  - relative timing of tasks & time frames
- > a concise description of the plan

- Requirements needed prior to building a schedule:
  - Client requirements
  - Overall project time frame
  - Different project phases
  - Type of project
  - Location of project



## - Resources to help build a schedule:

- Client Requirements
- Contract
- Experience
- Co-Workers
- Databases
- Trades



Where to start?

Splitting the project into work **activities**

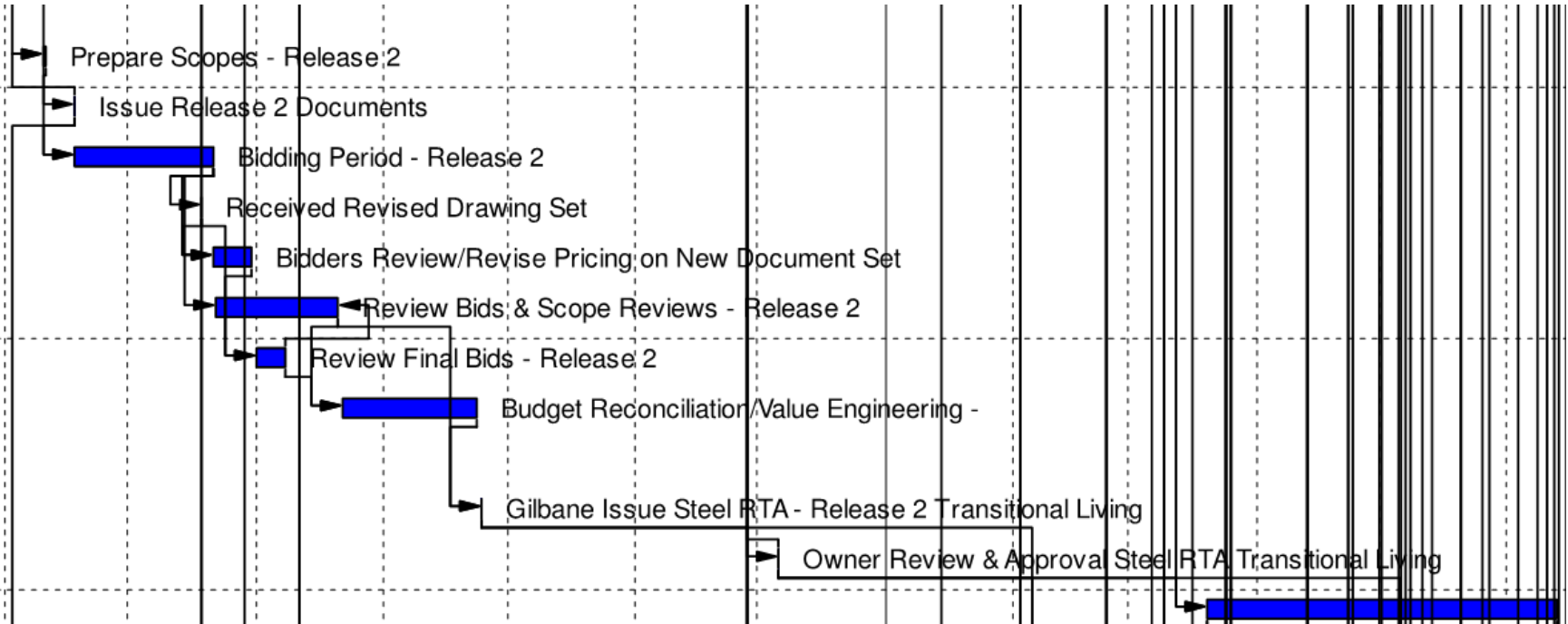
**Activities** – an element of the work performed during the project

Interior Sequence # 7 - Office L1 Low Roof Area	
A3260	Fire Protection Overhead Rough-In - Seq #7
A3210	Fireproofing - Seq #7
A3220	Ductwork Overhead Mains - Seq #7
A3230	Interior Framing - Seq #7
A3240	Electrical Overhead Rough-In- Seq #7
A3250	Plumbing Overhead Rough-In - Seq #7
A3270	Set VAV's & LP Duct - Seq #7
A3280	In-Wall Plumbing Rough - Seq #7
A3290	Blocking - Seq #7
A3300	Controls Wall Rough-in - Seq #7
A3310	In-Wall Electrical Rough - Seq #7

## Where to start?

- Determining **logic** relationships between activities

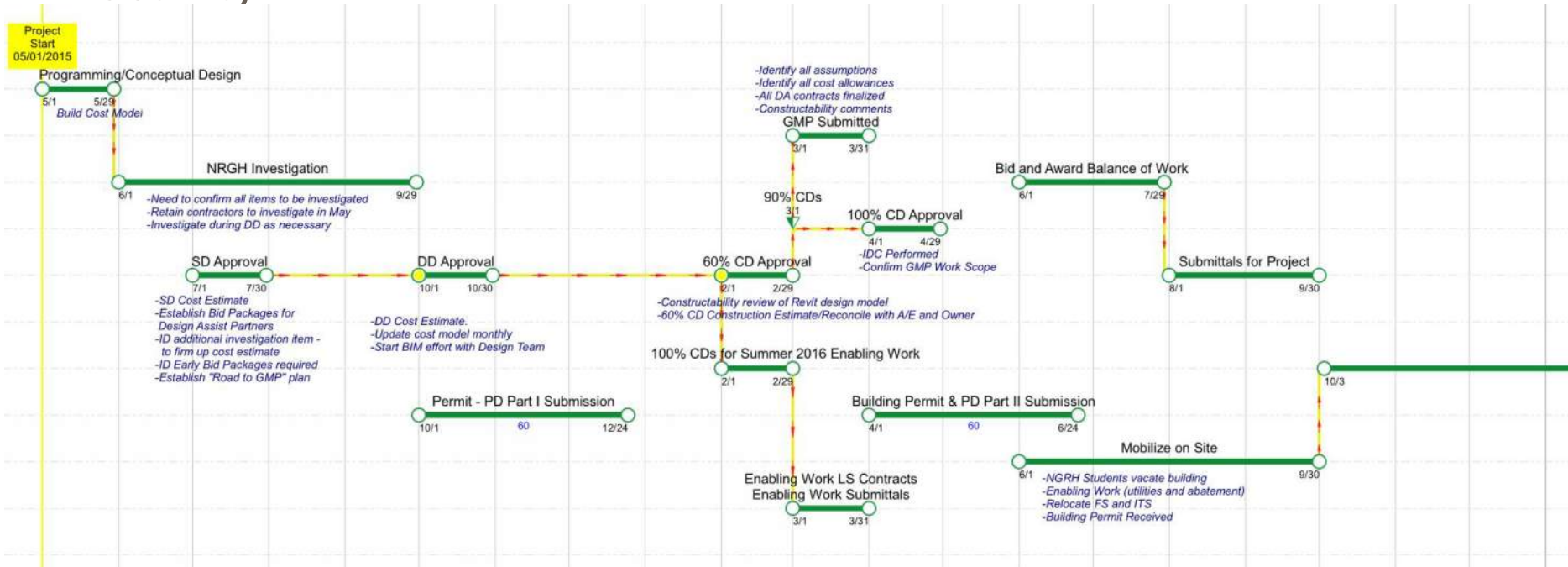
### Logic – FS, FF, SF, SS





## Where to start?

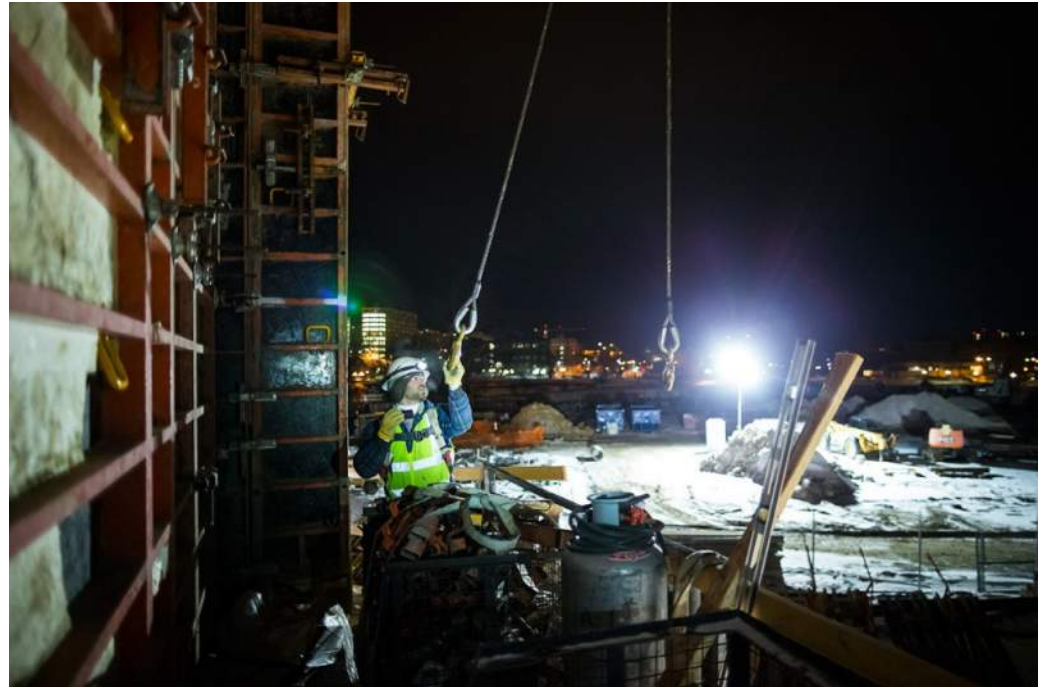
- Assigning durations to work activities
- **Durations** – Time taken from start to finish of each activity





## Other Considerations

- **Budget**
  - 5 day work week vs. 7 day work week
  - Round the clock shifts



## Other Considerations

- **Seasons**
  - Are you digging in January/February?
- **Type of job**
  - School in operation vs. open site



## Other Considerations

- Lead Times
- Owner requirements



- Milestone schedule
- Overall Project Schedule
- Look ahead schedule
- Pull plan schedule

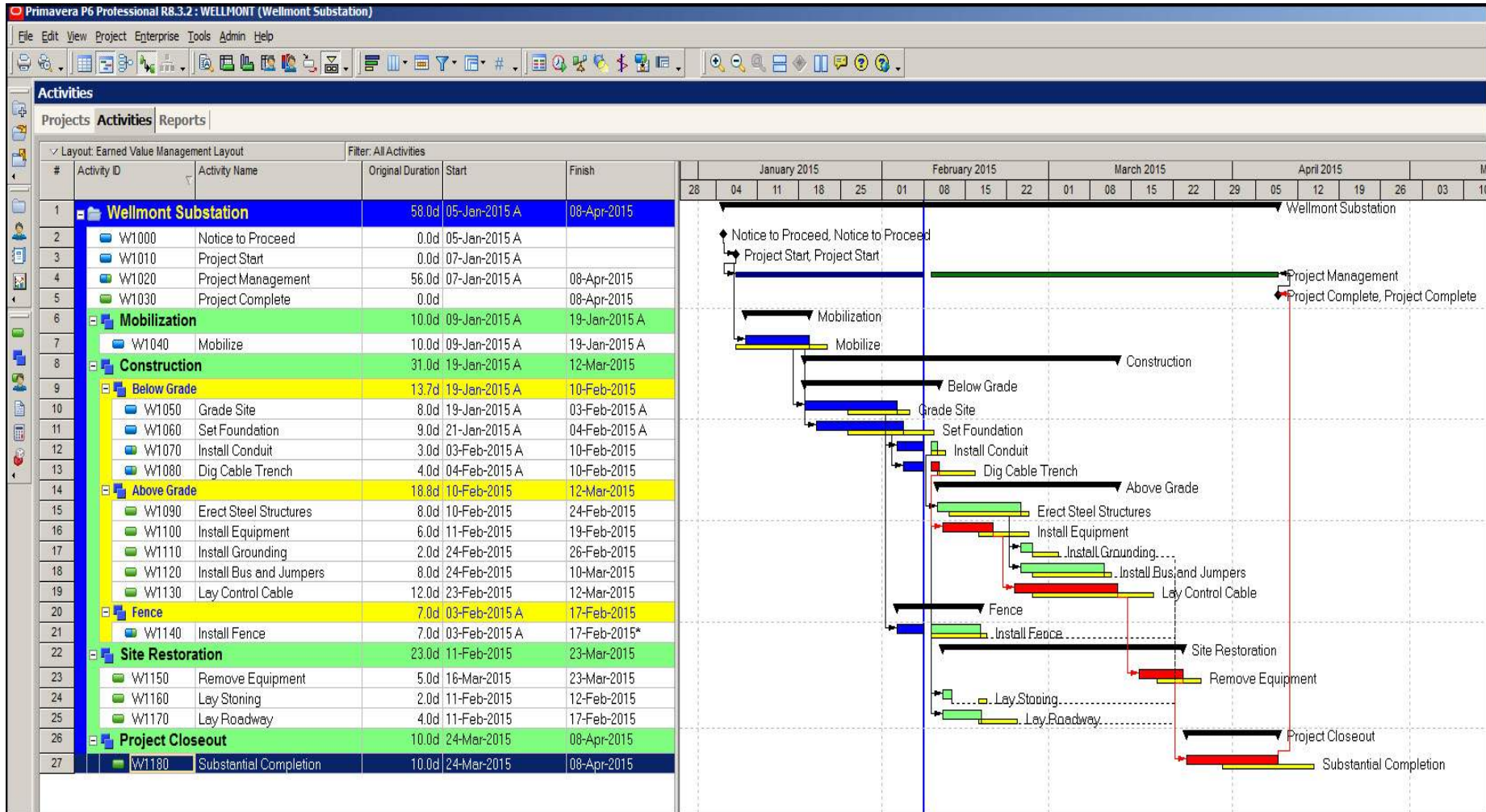


- **Milestone schedule**






## - Overall Project Schedule



- Look-ahead schedule

04/06/15	Highland Park H.S. 2014 GYM													
	2 Week Look-Ahead Schedule													
FIELD TASK	04/06/15	4/7/15	4/8/15	4/9/15	4/10/15	4/11/15	4/12/15	4/13/15	4/14/15	4/15/15	4/16/15	4/17/15	4/18/15	4/19/15
	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
GYM - Fabric Duct complete														
GYM - Scarify Floor														
GYM - Electrical trim fire alarm/gym equipment														
GYM - Light fixtures complete install														
GYM - Install hollow metal doorsframeshardware														
GYM - Ceiling Punch-list complete														
GYM - Wood Floor Install tentative (4/9/2015)														
GYM - Install Upper gym windows from exterior														
NORTH SIDE - Detail Steel North side														
NORTH SIDE - Rough Trim electrical in ceiling														
NORTH SIDE - Patch pockets of the precast														
EAST SIDE - Detail steel East side.														
EAST SIDE - Above ceiling electrical install														
EAST SIDE - Plumbing to chased complete with Mason														
EAST SIDE - Build Chases														
EAST SIDE - install Frames to storefront (4/6/2015)														



- Pull plan schedule



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Questions?

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