

Northeastern University

Civil and Environmental Engineering

CIVE 5221: Construction Project Control and
Organization

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Spring 2021

Computer Project

By

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&

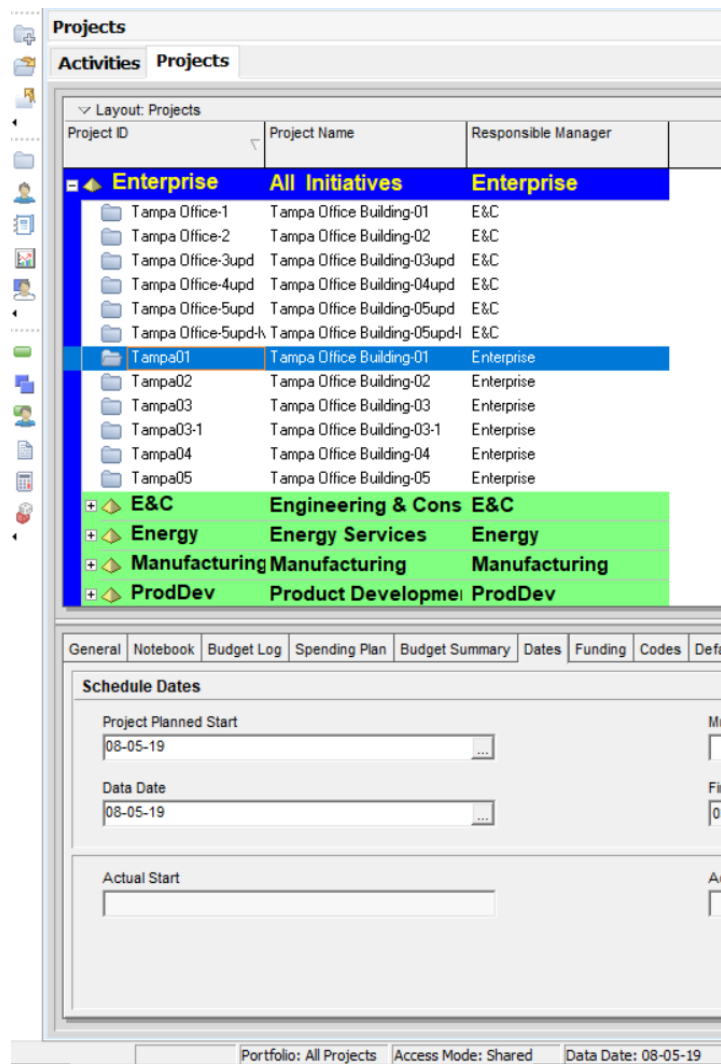
Anirud Rao

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Assignment 1

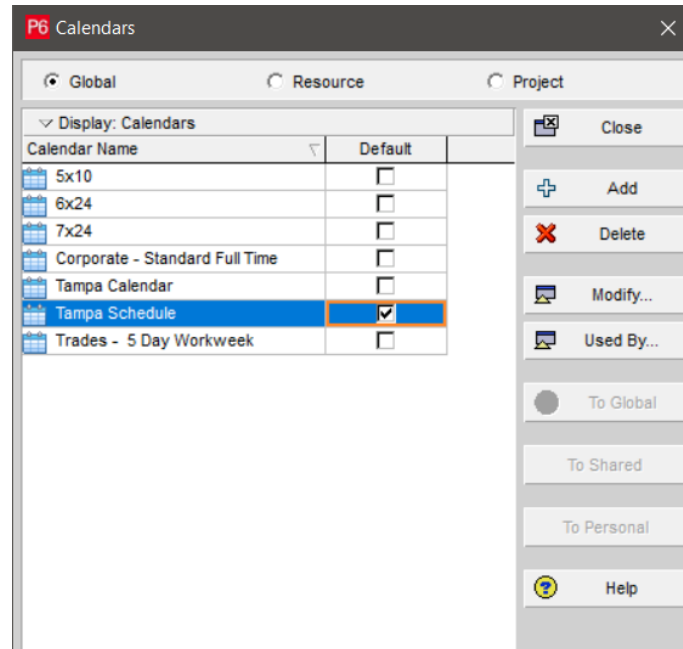
Entering the project start date:

Inside the projects tab opening the project details reveals several tabs where various parameters for the project can be inserted. On the details menu we have a “Dates” tab that has the schedule dates and anticipated dates, where we have entered 5th of August 2019, as the planned start date for the project.

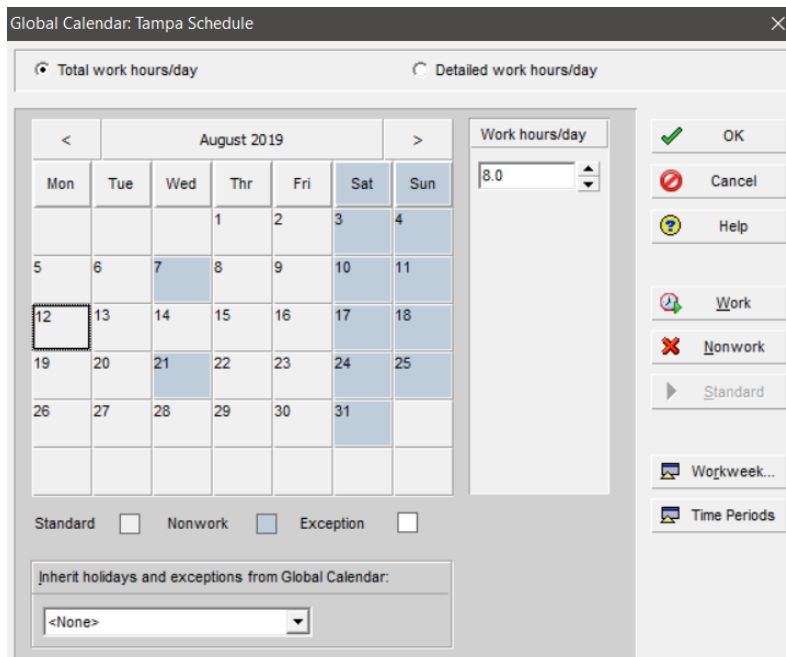


Entering non-workdays into the calendar:

Firstly, we created a new calendar called Tampa Schedule under Enterprise>Calendars. This was done by making a copy of the Corporate-Standard Full-Time calendar. After which we changed the name and modified it.



We manually added two rain days every month and the other holidays as well. We did this to the end of the year 2020, as we anticipated that the project would surely finish prior to that.



Global Calendar: Tampa Schedule

Total work hours/day
 Detailed work hours/day

September 2019						
Mon	Tue	Wed	Thr	Fri	Sat	Sun
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

Standard
 Nonwork
 Exception

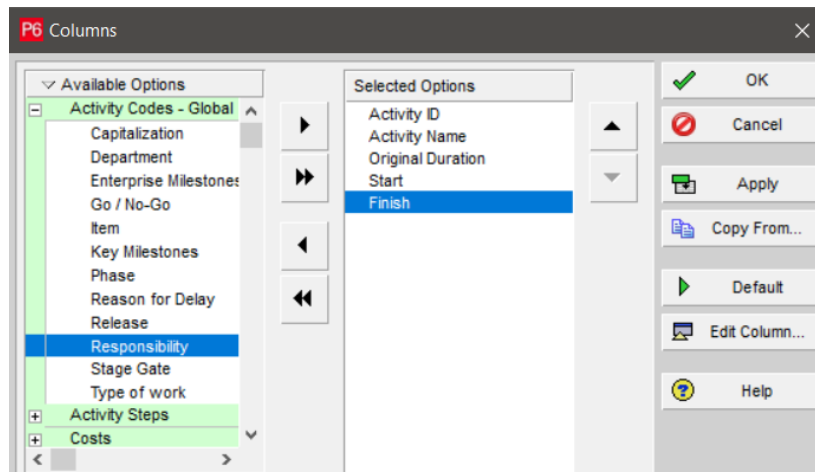
Inherit holidays and exceptions from Global Calendar:

<None>

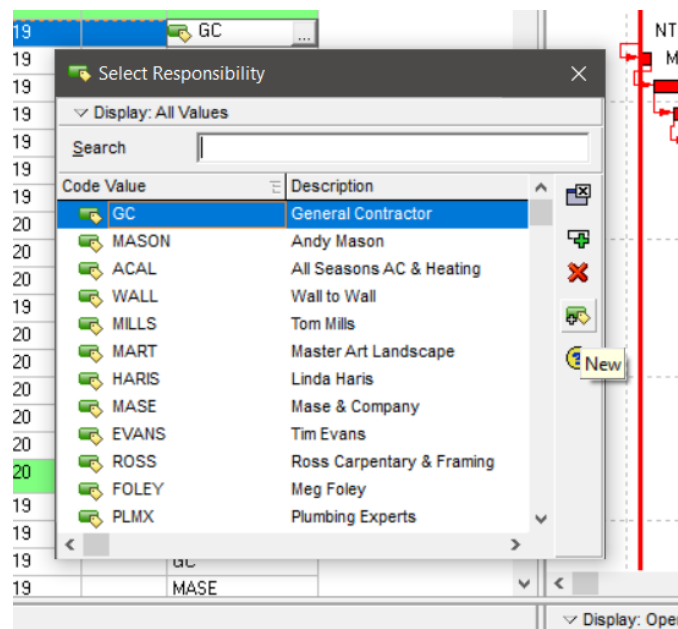
Work hours/day: 8.0

Entering Responsibility and Area:

For adding responsibility, we added the column called responsibility from Columns>Activity Codes-Global>Responsibility.



Clicking on the empty cells under the responsibility column provides us with a pop-up menu where we can select pre-loaded or add new responsibilities for each activity.



We have added the area codes by using a Work Breakdown Structure (WBS). On the left hand side there is a toolbar that contains the WBS option. Clicking on it opens a new window. We have added the different areas of work here by adding new WBS codes.

Layout: WBS

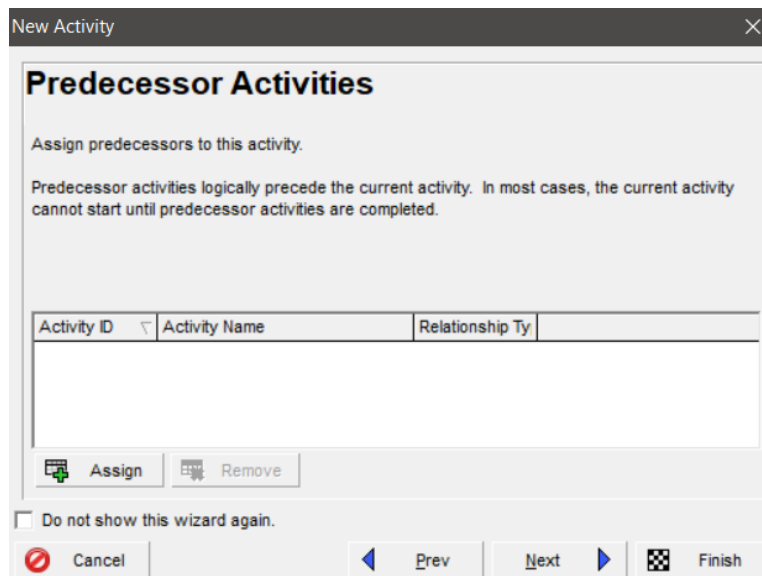
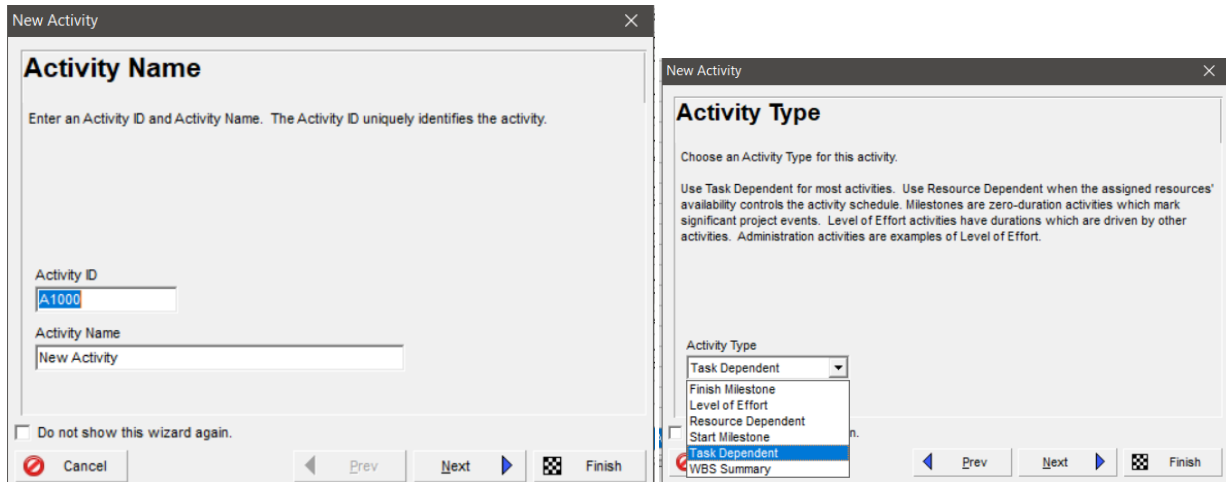
WBS Code	WBS Name	Total Activities
Tampa Office-1	Tampa Office-1	54
Tampa Office-1.All	All	16
Tampa Office-1.1st	1st Floor	16
Tampa Office-1.2nd	2nd Floor	16
Tampa Office-1.Roof	Roof	6

Context menu for Tampa Office-1:

- WBS Details
- Cut (Ctrl+X)
- Copy (Ctrl+C)
- Paste (Ctrl+V)
- Fill Down (Ctrl+E)
- Add (Ins)
- Delete (Del)
- Columns
- Table Font and Row...

Entering Activities (and their respective information):

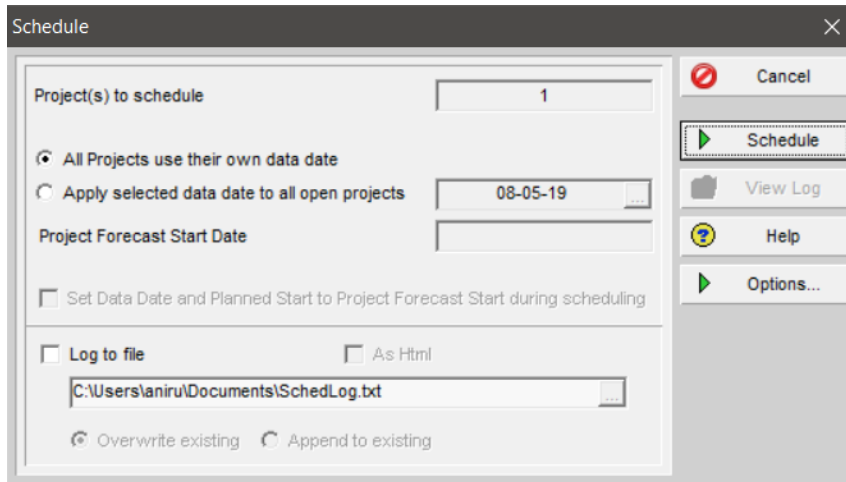
On the command bar in the activity tab, the first option is for creating a new activity. Clicking that provides us with the window below. In this we can enter the Activity ID, name, type, interrelationships etc. After creating the activity, we entered the duration of it manually under the original duration column.



Activity ID	Activity Name	Original Duration	Start	Finish	Responsibility
1000	NTP	0	08-05-19	08-05-19	
1010	Mobilization	3	08-05-19	08-08-19	
1020	Clear & Grub	12	08-09-19	08-27-19	
1030	Excavation	7	08-15-19	08-26-19	
1040	Foundation	15	08-20-19	09-12-19	
1050	Fill, Compact, and treat soil	3	09-13-19	09-17-19	

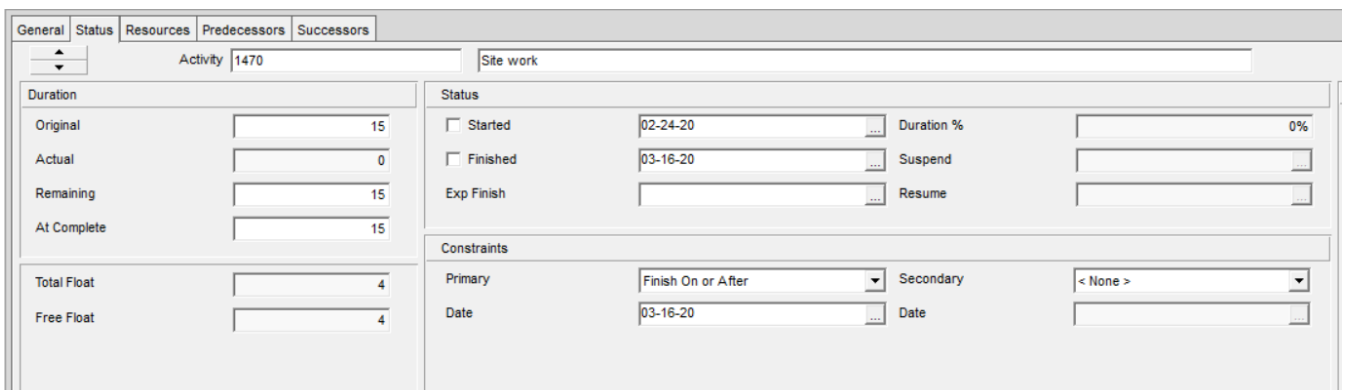
Schedule the Project

With the F9 shortcut, the schedule window pops up or go to Tools>Schedule.



Adding the Constraint to Site Work

Under the activity details we have several tabs for reading or even inserting information for each activity. Under Status>Constraints, we have added the constraint to Site Work activity that it cannot finish any earlier than a week before the project end date.



Calculated Finish Date

We can find this in the Projects window>Project Details>Dates.

The screenshot displays a software interface with a 'Projects' window. The window is divided into a tree view on the left and a Gantt chart on the right. The tree view shows a hierarchy of projects under 'Enterprise', including 'All Initiatives' and 'Enterprise'. The Gantt chart shows a timeline for August 2019 and September 2019, with dates 05, 12, 19, 26, 02, 09, 16, 23, 30, and 07. The 'Dates' tab is selected, showing 'Project Planned Start' as 08-05-19 and 'Must Finish By' as 03-23-20. Other tabs include 'General', 'Notebook', 'Budget Log', 'Spending Plan', 'Budget Summary', 'Funding', 'Codes', 'Defaults', 'Resources', 'Settings', and 'Calculations'.

Project ID	Project Name	Responsible Manager	August 2019	September 2019	October 2019
			05	02	30
			12	09	07
			19	16	
			26	23	

Schedule Dates

Project Planned Start	Must Finish By
08-05-19	
Data Date	Finish
08-05-19	03-23-20
Actual Start	Actual Finish

Assignment 1.6.A

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Total Floor	Responsibility	WBS
1000	NTP	0	08-05-19	08-05-19	0	GC	Tampa Office-1.All
1010	Mobilization	3	08-05-19	08-08-19	0	GC	Tampa Office-1.All
1020	Clear & Grub	12	08-09-19	08-27-19	0	GC	Tampa Office-1.All
1030	Excavation	7	08-15-19	08-26-19	0	GC	Tampa Office-1.All
1040	Foundation	15	08-20-19	09-12-19	0	GC	Tampa Office-1.All
1050	Fill, Compact, and treat soil	3	09-13-19	09-17-19	0	GC	Tampa Office-1.1st
1060	1st floor plumbing rough-in	3	09-19-19	09-23-19	0	PLMX	Tampa Office-1.1st
1070	SOG	4	09-24-19	09-27-19	0	GC	Tampa Office-1.All
1080	1st floor columns	7	09-19-19	09-27-19	14	GC	Tampa Office-1.1st
1090	1st floor external CMU walls	10	09-30-19	10-14-19	4	MASE	Tampa Office-1.1st
1100	1st floor internal CMU walls	14	09-30-19	10-21-19	0	MASE	Tampa Office-1.1st
1110	2nd floor suspended slab	8	10-22-19	10-31-19	0	GC	Tampa Office-1.2nd
1120	2nd floor plumbing rough-in	3	10-28-19	10-31-19	82	PLMX	Tampa Office-1.2nd
1130	1st floor electrical rough-in	4	01-10-20	01-16-20	21	ZAPP	Tampa Office-1.1st
1140	1st floor HVAC ductwork/rough-	6	11-01-19	11-11-19	72	ACAL	Tampa Office-1.1st
1150	1st floor door & window frames	5	01-07-20	01-13-20	31	WINT	Tampa Office-1.1st
1160	2nd floor columns	7	11-07-19	11-15-19	8	GC	Tampa Office-1.2nd
1170	2nd floor external CMU walls	12	11-01-19	11-19-19	6	MASE	Tampa Office-1.2nd
1180	2nd floor internal CMU walls	16	11-05-19	12-02-19	0	MASE	Tampa Office-1.2nd
1190	Roof trusses	8	12-03-19	12-13-19	0	ROSS	Tampa Office-1.Roof
1200	2nd floor electrical rough-in	4	01-10-20	01-16-20	23	ZAPP	Tampa Office-1.2nd
1210	2nd floor HVAC ductwork/rough-in	6	12-16-19	12-24-19	46	ACAL	Tampa Office-1.2nd
1220	2nd floor door & window frames	5	01-07-20	01-13-20	31	WINT	Tampa Office-1.2nd
1230	Roof Sheeting	5	12-16-19	12-23-19	0	ROSS	Tampa Office-1.Roof
1240	Roof felt	1	12-24-19	12-24-19	0	RABT	Tampa Office-1.Roof
1250	Building dry-in	0	12-26-19	12-26-19	0	GC	Tampa Office-1.All
1260	Soffit & fascia	3	12-26-19	12-30-19	42	ROSS	Tampa Office-1.Roof
1265	Roof Shingles	6	12-26-19	01-03-20	47	RABT	Tampa Office-1.Roof
1270	Roof Insulation	2	12-26-19	12-27-19	26	ROSS	Tampa Office-1.Roof
1280	Internal partition framing	12	12-26-19	01-13-20	0	ROSS	Tampa Office-1.All
1290	1st floor: hang doors & windows	10	01-14-20	01-30-20	31	WINT	Tampa Office-1.1st
1300	1st floor drywall	8	01-14-20	01-27-20	0	WALL	Tampa Office-1.1st
1310	1st floor HVAC air handler	5	01-28-20	02-04-20	26	ACAL	Tampa Office-1.1st
1320	1st floor suspended ceiling	8	01-28-20	02-10-20	7	WALL	Tampa Office-1.1st
1330	1st floor plumbing: install fixture	2	01-28-20	01-30-20	29	PLMX	Tampa Office-1.1st
1340	1st floor paint/wall covering	10	02-04-20	02-18-20	7	WALL	Tampa Office-1.1st
1350	1st floor electrical finish	6	02-11-20	02-18-20	7	ZAPP	Tampa Office-1.1st
1360	1st floor flooring	12	02-20-20	03-06-20	7	TACO	Tampa Office-1.1st
1370	2nd floor: hang doors & window	10	01-14-20	01-30-20	31	WINT	Tampa Office-1.2nd
1380	2nd floor drywall	8	01-28-20	02-10-20	0	WALL	Tampa Office-1.2nd
1390	2nd floor HVAC air handler	5	02-11-20	02-17-20	18	ACAL	Tampa Office-1.2nd
1400	2nd floor suspended ceiling	8	02-11-20	02-21-20	0	WALL	Tampa Office-1.2nd
1410	2nd floor plumbing: install fixture	2	02-11-20	02-12-20	21	PLMX	Tampa Office-1.2nd
1420	2nd floor paint/wall covering	11	02-17-20	03-03-20	0	WALL	Tampa Office-1.2nd
1430	2nd floor electrical finish	6	02-24-20	03-02-20	1	ZAPP	Tampa Office-1.2nd
1440	HVAC: install equipment	1	02-18-20	02-18-20	18	ACAL	Tampa Office-1.All
1450	2nd floor flooring	10	03-04-20	03-18-20	0	TACO	Tampa Office-1.2nd
1460	Stucco & paint to ext. walls	8	12-31-19	01-10-20	42	WALL	Tampa Office-1.All
1470	Site work	15	02-24-20	03-16-20	4	MART	Tampa Office-1.All
1480	Plumbing Finish	2	02-13-20	02-14-20	21	PLMX	Tampa Office-1.All
1490	HVAC thermostat & Test	1	03-03-20	03-03-20	10	ACAL	Tampa Office-1.All
1500	Electrical final	4	03-04-20	03-09-20	6	ZAPP	Tampa Office-1.All
1510	Building cleanup	2	03-19-20	03-20-20	0	GC	Tampa Office-1.All
1520	Final check/CO	1	03-23-20	03-23-20	0	GC	Tampa Office-1.All
Total		145	08-05-19	03-23-20	0		

Assignment 1.6.B

Activity ID	Activity Name	Original Duratic	Predecessors	Responsibility	WBS
1000	NTP	0		GC	Tampa Office-1.All
1010	Mobilization	3	1000	GC	Tampa Office-1.All
1020	Clear & Grub	12	1010	GC	Tampa Office-1.All
1030	Excavation	7	1020	GC	Tampa Office-1.All
1040	Foundation	15	1030, 1030	GC	Tampa Office-1.All
1050	Fill, Compact, and treat soil	3	1040	GC	Tampa Office-1.1st
1060	1st floor plumbing rough-in	3	1050	PLMX	Tampa Office-1.1st
1070	SOG	4	1060	GC	Tampa Office-1.All
1080	1st floor columns	7	1050	GC	Tampa Office-1.1st
1090	1st floor external CMU walls	10	1070	MASE	Tampa Office-1.1st
1100	1st floor internal CMU walls	14	1070	MASE	Tampa Office-1.1st
1110	2nd floor suspended slab	8	1080, 1090, 1100	GC	Tampa Office-1.2nd
1120	2nd floor plumbing rough-in	3	1110, 1110	PLMX	Tampa Office-1.2nd
1130	1st floor electrical rough-in	4	1090, 1100, 1280, 1280, 1090, 1100	ZAPP	Tampa Office-1.1st
1140	1st floor HVAC ductwork/rough-in	6	1110	ACAL	Tampa Office-1.1st
1150	1st floor door & window frames	5	1090, 1100, 1090, 1100, 1280, 1280	WINT	Tampa Office-1.1st
1160	2nd floor columns	7	1110	GC	Tampa Office-1.2nd
1170	2nd floor external CMU walls	12	1110	MASE	Tampa Office-1.2nd
1180	2nd floor intenal CMU walls	16	1110	MASE	Tampa Office-1.2nd
1190	Roof trusses	8	1160, 1170, 1180	ROSS	Tampa Office-1.Roof
1200	2nd floor electrical rough-in	4	1170, 1180, 1280, 1170, 1180, 1280	ZAPP	Tampa Office-1.2nd
1210	2nd floor HVAC ductwork/rough-in	6	1190	ACAL	Tampa Office-1.2nd
1220	2nd floor door & window frames	5	1170, 1180, 1170, 1180, 1280, 1280	WINT	Tampa Office-1.2nd
1230	Roof Sheathing	5	1190	ROSS	Tampa Office-1.Roof
1240	Roof felt	1	1230	RABT	Tampa Office-1.Roof
1250	Building dry-in	0	1240	GC	Tampa Office-1.All
1260	Soffit & fascia	3	1250	ROSS	Tampa Office-1.Roof
1265	Roof Shingles	6	1240	RABT	Tampa Office-1.Roof
1270	Roof Insulation	2	1250	ROSS	Tampa Office-1.Roof
1280	Internal partition framing	12	1250	ROSS	Tampa Office-1.All
1290	1st floor: hang doors & windows	10	1150, 1280	WINT	Tampa Office-1.1st
1300	1st floor drywall	8	1280	WALL	Tampa Office-1.1st
1310	1st floor HVAC air handler	5	1140, 1300	ACAL	Tampa Office-1.1st
1320	1st floor suspended ceiling	8	1300	WALL	Tampa Office-1.1st
1330	1st floor plumbing: install fixtures	2	1060, 1300	PLMX	Tampa Office-1.1st
1340	1st floor paint/wall covering	10	1320	WALL	Tampa Office-1.1st
1350	1st floor electrical finish	6	1130, 1320	ZAPP	Tampa Office-1.1st
1360	1st floor flooring	12	1340, 1350	TACO	Tampa Office-1.1st
1370	2nd floor: hang doors & windows	10	1220, 1280	WINT	Tampa Office-1.2nd
1380	2nd floor drywall	8	1300	WALL	Tampa Office-1.2nd
1390	2nd floor HVAC air handler	5	1210, 1380	ACAL	Tampa Office-1.2nd
1400	2nd floor suspended ceiling	8	1270, 1380	WALL	Tampa Office-1.2nd
1410	2nd floor plumbing: install fixtures	2	1120, 1380	PLMX	Tampa Office-1.2nd
1420	2nd floor paint/wall covering	11	1400	WALL	Tampa Office-1.2nd
1430	2nd floor electrical finish	6	1200, 1400	ZAPP	Tampa Office-1.2nd
1440	HVAC: install equipment	1	1310, 1390	ACAL	Tampa Office-1.All
1450	2nd floor flooring	10	1420, 1430	TACO	Tampa Office-1.2nd
1460	Stucco & paint to ext. walls	8	1260	WALL	Tampa Office-1.All
1470	Site work	15	1020, 1090	MART	Tampa Office-1.All
1480	Plumbing Finish	2	1330, 1410	PLMX	Tampa Office-1.All
1490	HVAC thermostat & Test	1	1350, 1430, 1440	ACAL	Tampa Office-1.All
1500	Electrical final	4	1340, 1350, 1420, 1430	ZAPP	Tampa Office-1.All
1510	Building cleanup	2	1265, 1290, 1360, 1370, 1450, 1460, 1480, 1490, 1500	GC	Tampa Office-1.All
1520	Final check/CO	1	1470, 1510	GC	Tampa Office-1.All

Total

145

Assignment 1.6.C

Activity ID	Activity Name	Early Start	Early Finish	Late Start	Late Finish	Total Floa
1000	NTP	08-05-19	08-05-19	08-02-19	08-02-19	0
1010	Mobilization	08-05-19	08-08-19	08-05-19	08-08-19	0
1020	Clear & Grub	08-09-19	08-27-19	08-09-19	08-27-19	0
1030	Excavation	08-15-19	08-26-19	08-15-19	08-26-19	0
1040	Foundation	08-20-19	09-12-19	08-20-19	09-12-19	0
1050	Fill, Compact, and treat soil	09-13-19	09-17-19	09-13-19	09-17-19	0
1060	1st floor plumbing rough-in	09-19-19	09-23-19	09-19-19	09-23-19	0
1080	1st floor columns	09-19-19	09-27-19	10-10-19	10-21-19	14
1070	SOG	09-24-19	09-27-19	09-24-19	09-27-19	0
1100	1st floor internal CMU walls	09-30-19	10-21-19	09-30-19	10-21-19	0
1090	1st floor external CMU walls	09-30-19	10-14-19	10-07-19	10-21-19	4
1110	2nd floor suspended slab	10-22-19	10-31-19	10-22-19	10-31-19	0
1120	2nd floor plumbing rough-in	10-28-19	10-31-19	03-09-20	03-12-20	82
1170	2nd floor external CMU walls	11-01-19	11-19-19	11-12-19	12-02-19	6
1140	1st floor HVAC ductwork/rough-i	11-01-19	11-11-19	02-28-20	03-06-20	72
1180	2nd floor internal CMU walls	11-05-19	12-02-19	11-05-19	12-02-19	0
1160	2nd floor columns	11-07-19	11-15-19	11-19-19	12-02-19	8
1190	Roof trusses	12-03-19	12-13-19	12-03-19	12-13-19	0
1230	Roof Sheating	12-16-19	12-23-19	12-16-19	12-23-19	0
1210	2nd floor HVAC ductwork/rough-	12-16-19	12-24-19	02-28-20	03-06-20	46
1240	Roof felt	12-24-19	12-24-19	12-24-19	12-24-19	0
1250	Building dry-in	12-26-19	12-26-19	12-24-19	12-24-19	0
1280	Internal partition framing	12-26-19	01-13-20	12-26-19	01-13-20	0
1270	Roof Insulation	12-26-19	12-27-19	02-07-20	02-10-20	26
1260	Soffit & fascia	12-26-19	12-30-19	03-03-20	03-05-20	42
1265	Roof Shingles	12-26-19	01-03-20	03-10-20	03-18-20	47
1460	Stucco & paint to ext. walls	12-31-19	01-10-20	03-06-20	03-18-20	42
1150	1st floor door & window frames	01-07-20	01-13-20	02-26-20	03-03-20	31
1220	2nd floor door & window frames	01-07-20	01-13-20	02-26-20	03-03-20	31
1130	1st floor electrical rough-in	01-10-20	01-16-20	02-14-20	02-20-20	21
1200	2nd floor electrical rough-in	01-10-20	01-16-20	02-18-20	02-24-20	23
1300	1st floor drywall	01-14-20	01-27-20	01-14-20	01-27-20	0
1290	1st floor: hang doors & windows	01-14-20	01-30-20	03-04-20	03-18-20	31
1370	2nd floor: hang doors & windows	01-14-20	01-30-20	03-04-20	03-18-20	31
1380	2nd floor drywall	01-28-20	02-10-20	01-28-20	02-10-20	0
1320	1st floor suspended ceiling	01-28-20	02-10-20	02-10-20	02-20-20	7
1310	1st floor HVAC air handler	01-28-20	02-04-20	03-09-20	03-16-20	26
1330	1st floor plumbing: install fixture:	01-28-20	01-30-20	03-13-20	03-16-20	29
1340	1st floor paint/wall covering	02-04-20	02-18-20	02-14-20	02-28-20	7
1400	2nd floor suspended ceiling	02-11-20	02-21-20	02-11-20	02-21-20	0
1350	1st floor electrical finish	02-11-20	02-18-20	02-21-20	02-28-20	7
1390	2nd floor HVAC air handler	02-11-20	02-17-20	03-09-20	03-16-20	18
1410	2nd floor plumbing: install fixture	02-11-20	02-12-20	03-13-20	03-16-20	21
1480	Plumbing Finish	02-13-20	02-14-20	03-17-20	03-18-20	21
1420	2nd floor paint/wall covering	02-17-20	03-03-20	02-17-20	03-03-20	0
1440	HVAC: install equipment	02-18-20	02-18-20	03-17-20	03-17-20	18
1360	1st floor flooring	02-20-20	03-06-20	03-02-20	03-18-20	7
1430	2nd floor electrical finish	02-24-20	03-02-20	02-25-20	03-03-20	1
1470	Site work	02-24-20	03-16-20	02-28-20	03-20-20	4
1490	HVAC thermostat & Test	03-03-20	03-03-20	03-18-20	03-18-20	10
1450	2nd floor flooring	03-04-20	03-18-20	03-04-20	03-18-20	0
1500	Electrical final	03-04-20	03-09-20	03-13-20	03-18-20	6
1510	Building clean up	03-19-20	03-20-20	03-19-20	03-20-20	0
1520	Final check/CO	03-23-20	03-23-20	03-23-20	03-23-20	0

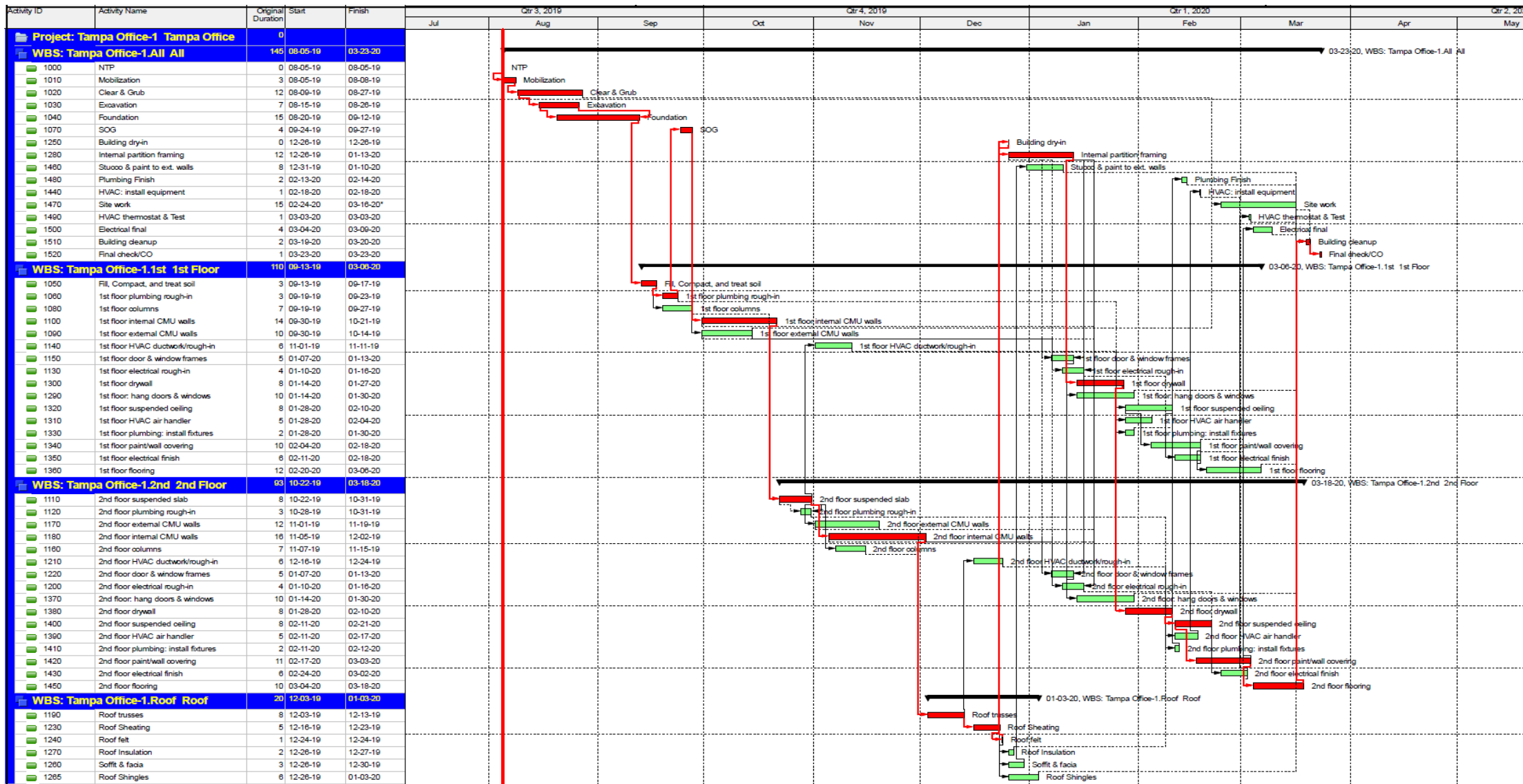
Assignment 1.6.D

Activity ID	Activity Name	Schedule Start	Schedule Finish
1000	NTP	08-05-19	08-05-19
1010	Mobilization	08-05-19	08-08-19
1020	Clear & Grub	08-09-19	08-27-19
1030	Excavation	08-15-19	08-26-19
1040	Foundation	08-20-19	09-12-19
1050	Fill, Compact, and treat soil	09-13-19	09-17-19
1060	1st floor plumbing rough-in	09-19-19	09-23-19
1080	1st floor columns	09-19-19	09-27-19
1070	SOG	09-24-19	09-27-19
1100	1st floor internal CMU walls	09-30-19	10-21-19
1090	1st floor external CMU walls	09-30-19	10-14-19
1110	2nd floor suspended slab	10-22-19	10-31-19
1120	2nd floor plumbing rough-in	10-28-19	10-31-19
1170	2nd floor external CMU walls	11-01-19	11-19-19
1140	1st floor HVAC ductwork/rough-i	11-01-19	11-11-19
1180	2nd floor internal CMU walls	11-05-19	12-02-19
1160	2nd floor columns	11-07-19	11-15-19
1190	Roof trusses	12-03-19	12-13-19
1230	Roof Sheating	12-16-19	12-23-19
1210	2nd floor HVAC ductwork/rough-	12-16-19	12-24-19
1240	Roof felt	12-24-19	12-24-19
1250	Building dry-in	12-26-19	12-26-19
1280	Internal partition framing	12-26-19	01-13-20
1270	Roof Insulation	12-26-19	12-27-19
1260	Soffit & fascia	12-26-19	12-30-19
1265	Roof Shingles	12-26-19	01-03-20
1460	Stucco & paint to ext. walls	12-31-19	01-10-20
1150	1st floor door & window frames	01-07-20	01-13-20
1220	2nd floor door & window frames	01-07-20	01-13-20
1130	1st floor electrical rough-in	01-10-20	01-16-20
1200	2nd floor electrical rough-in	01-10-20	01-16-20
1300	1st floor drywall	01-14-20	01-27-20
1290	1st floor: hang doors & windows	01-14-20	01-30-20
1370	2nd floor: hang doors & windows	01-14-20	01-30-20
1380	2nd floor drywall	01-28-20	02-10-20
1320	1st floor suspended ceiling	01-28-20	02-10-20
1310	1st floor HVAC air handler	01-28-20	02-04-20
1330	1st floor plumbing: install fixture:	01-28-20	01-30-20
1340	1st floor paint/wall covering	02-04-20	02-18-20
1400	2nd floor suspended ceiling	02-11-20	02-21-20
1350	1st floor electrical finish	02-11-20	02-18-20
1390	2nd floor HVAC air handler	02-11-20	02-17-20
1410	2nd floor plumbing: install fixture	02-11-20	02-12-20
1480	Plumbing Finish	02-13-20	02-14-20
1420	2nd floor paint/wall covering	02-17-20	03-03-20
1440	HVAC: install equipment	02-18-20	02-18-20
1360	1st floor flooring	02-20-20	03-06-20
1430	2nd floor electrical finish	02-24-20	03-02-20
1470	Site work	02-24-20	03-16-20
1490	HVAC thermostat & Test	03-03-20	03-03-20
1450	2nd floor flooring	03-04-20	03-18-20
1500	Electrical final	03-04-20	03-09-20
1510	Building cleanup	03-19-20	03-20-20
1520	Final check/CO	03-23-20	03-23-20

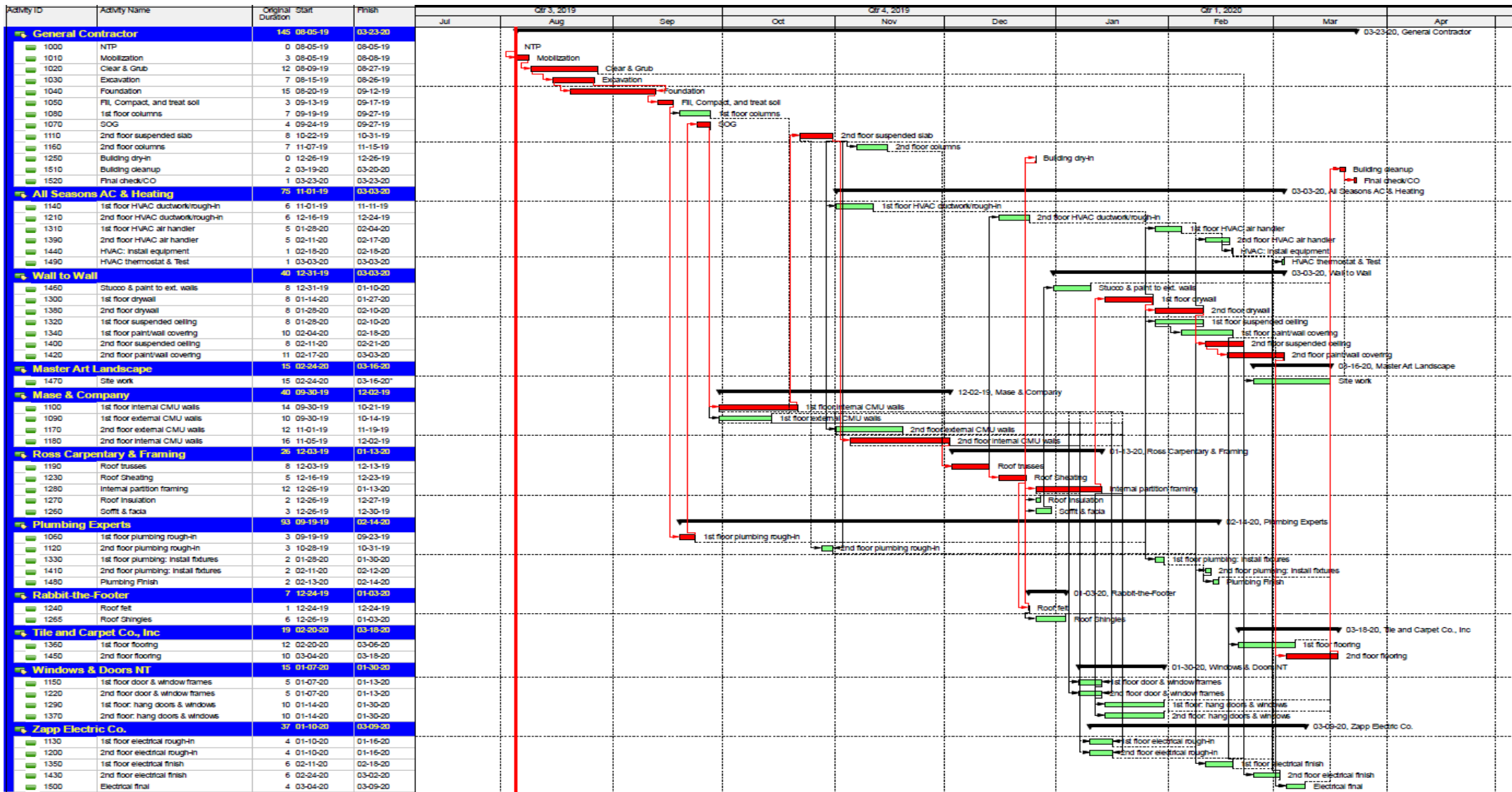
Assignment 1.6.E

Activity ID	Activity Name	Scheduled Start	Scheduled Finish
1050	Fill, Compact, and treat soil	09-13-19	09-17-19
1060	1st floor plumbing rough-in	09-19-19	09-23-19
1070	SOG	09-24-19	09-27-19
1080	1st floor columns	09-19-19	09-27-19
Total		09-13-19	09-27-19

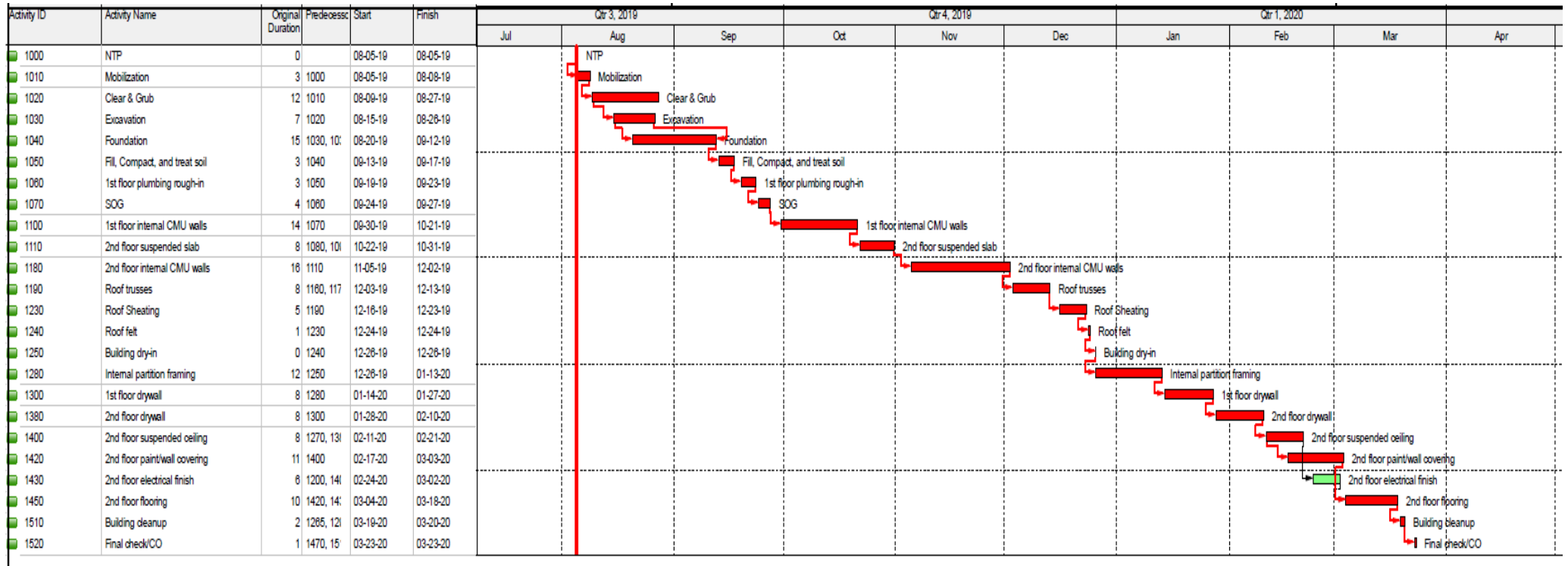
Assignment 1.6.F



Assignment 1.6.G

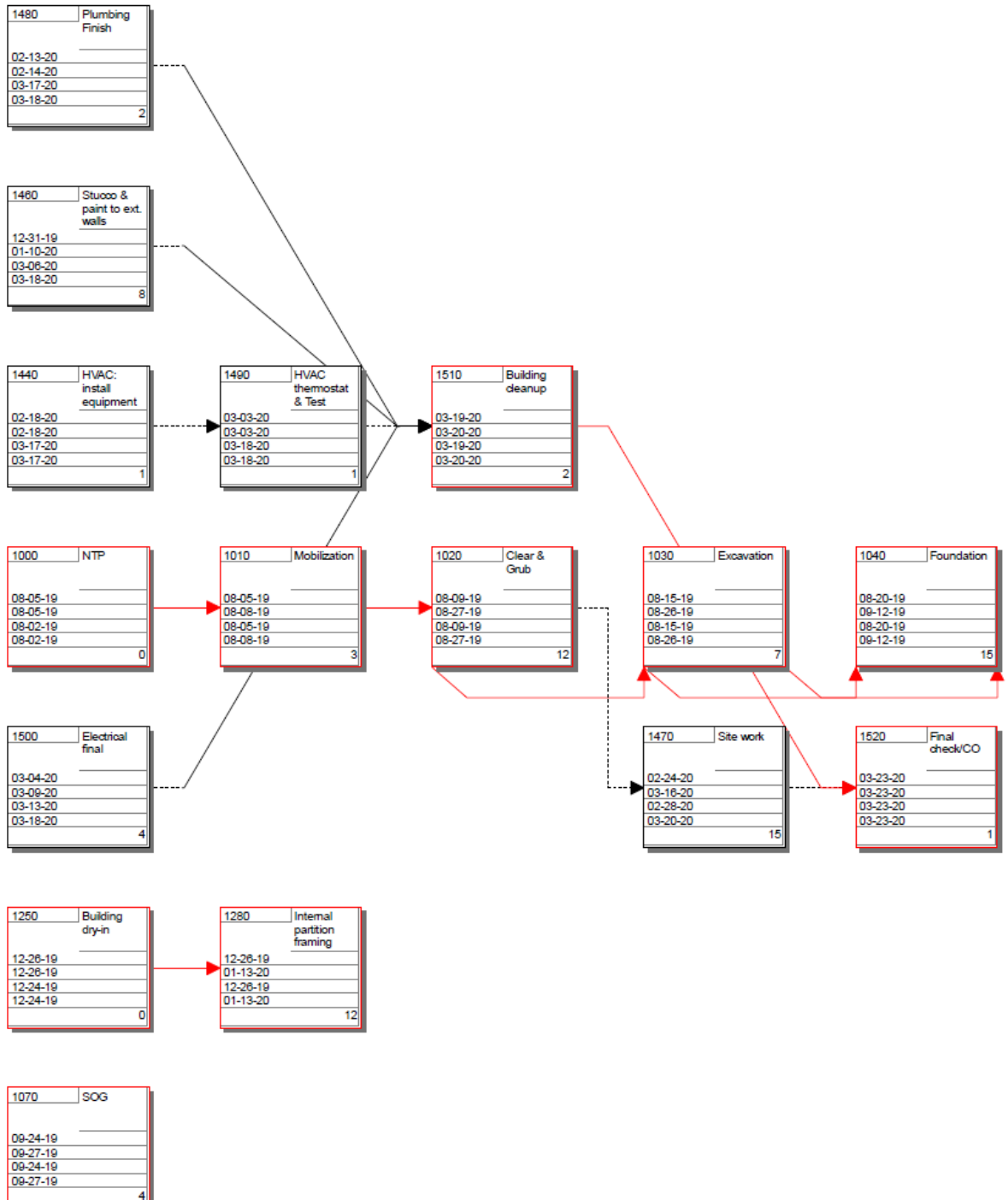


Assignmetn 1.6.H

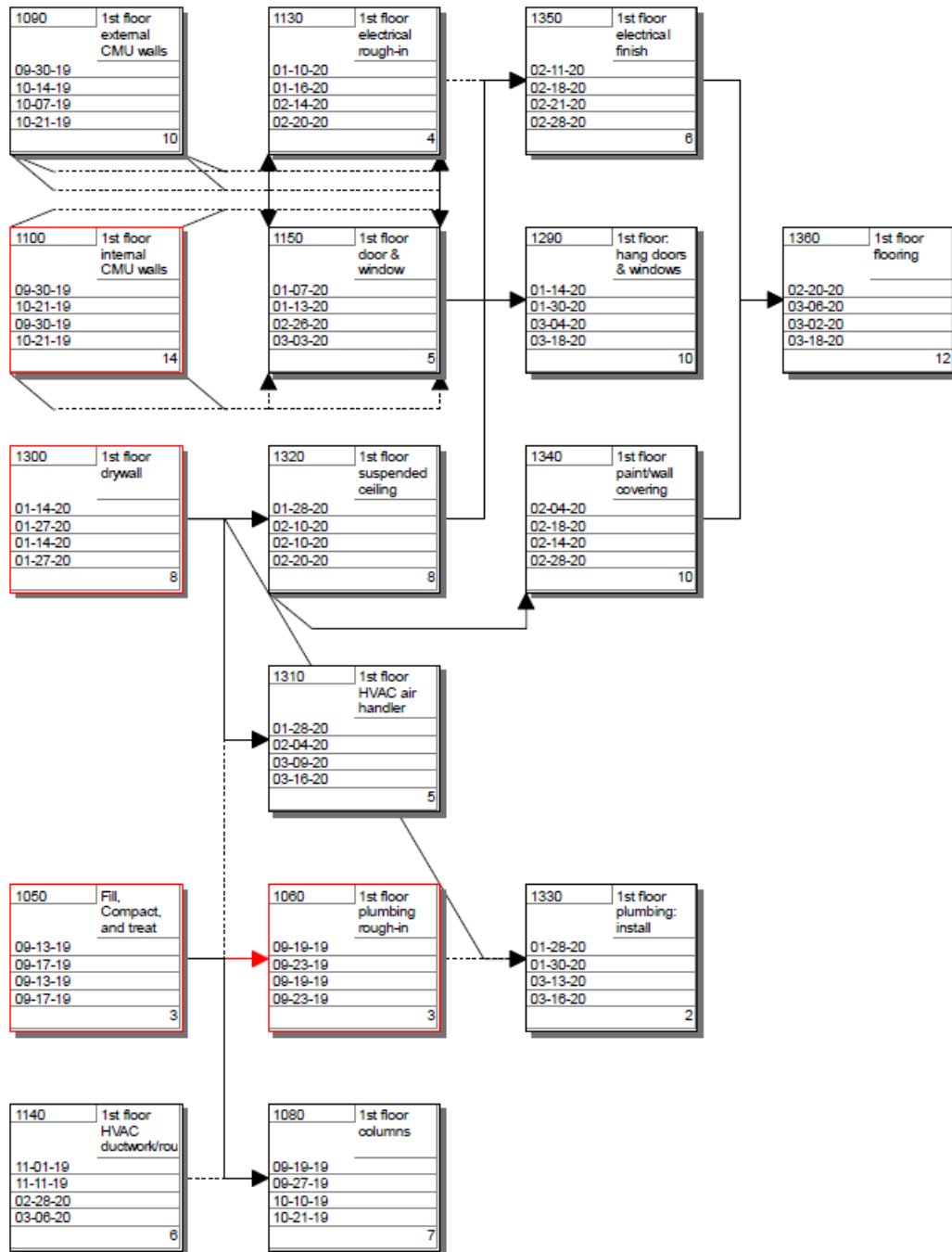


Assignment 1.6.I

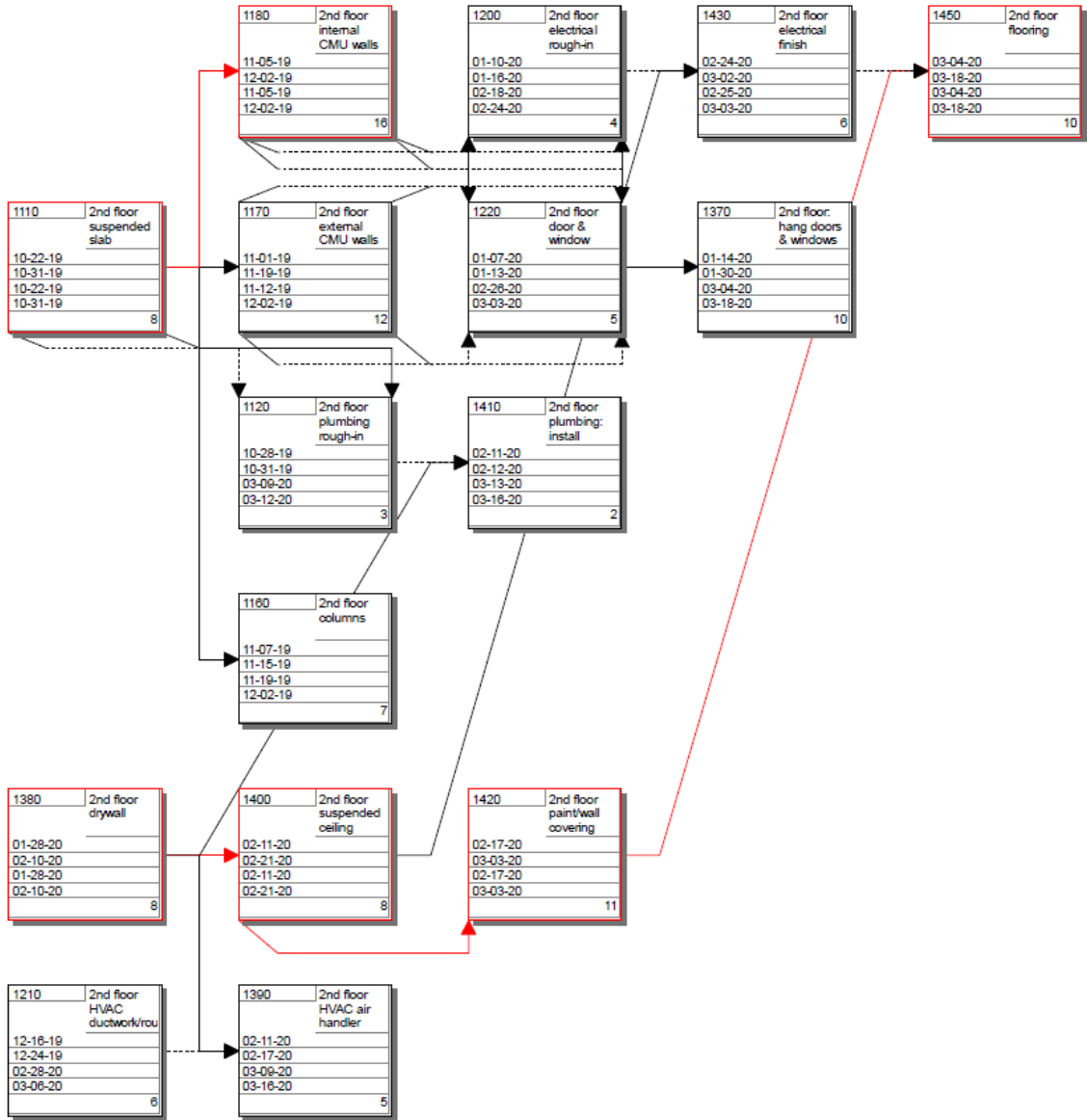
Tampa Office-1.All All



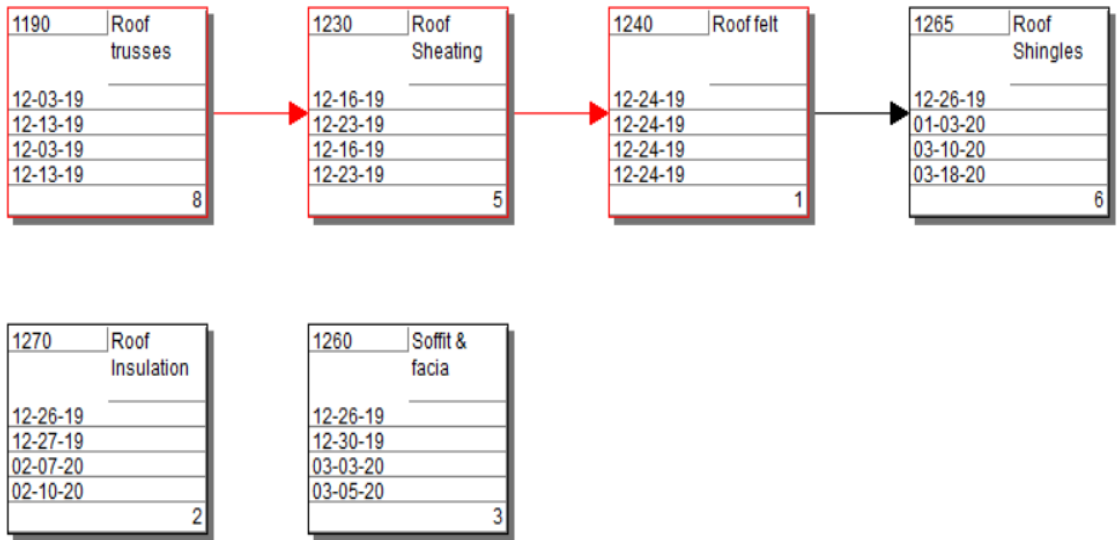
Tampa Office-1.1st 1st Floor



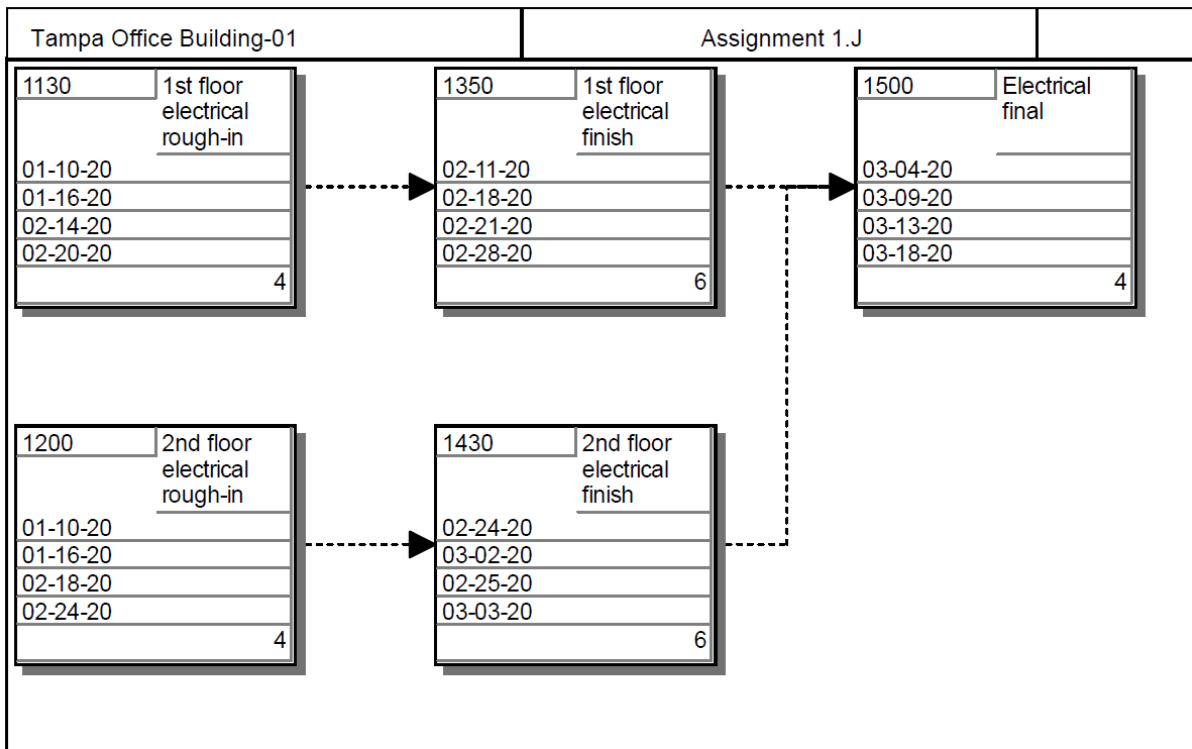
Tampa Office-1.2nd 2nd Floor



Tampa Office-1.Roof Roof

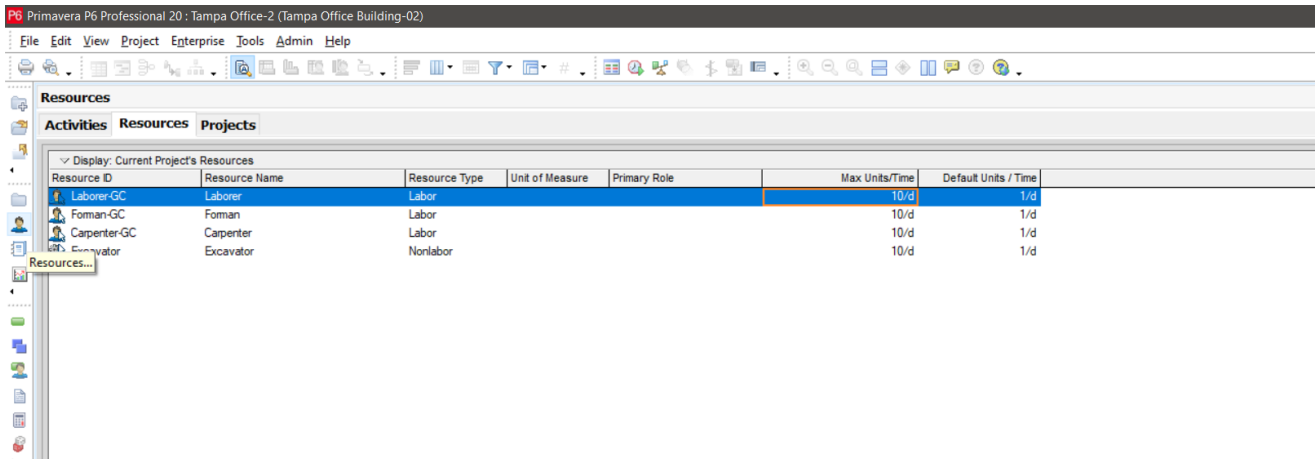


Assignment 1.6.J



Assignment 2

For assignment 2, we added laborer, forman, carpenter and excavator as the resources. This was done on the resources tab, by clicking on “add” at the bottom of the page. We gave each of the resource a max units/time of 10/d to make sure that at this moment there were no activities that were affected by a resource constraint.

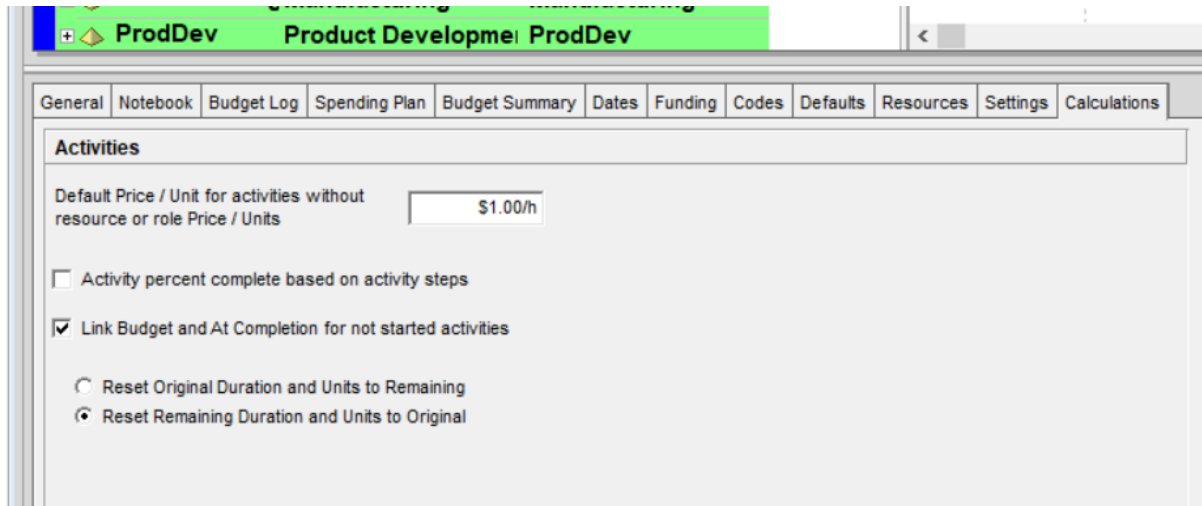


Then we added resources to each of the activity from the activity tab and entered the budgeted units/time as given to us in the textbook.

1000	NTP	0	08-05-19	08-05-19		
1010	Mobilization	3	08-05-19	08-08-19		
1020	Clear & Grub	12	08-09-19	08-27-19		
1030	Excavation	7	08-15-19	08-26-19		
1040	Foundation	15	08-20-19	09-12-19		
1050	Fill, Compact, and treat soil	3	09-13-19	09-17-19		
1060	1st floor plumbing rough-in	3	09-19-19	09-23-19		
1070	SOG	4	09-24-19	09-27-19		
1080	1st floor columns	7	09-19-19	09-27-19		
1090	1st floor external CMU walls	10	09-30-19	10-14-19		
1100	1st floor internal CMU walls	14	09-30-19	10-21-19		
1110	2nd floor suspended slab	8	10-22-19	10-31-19		
1120	2nd floor plumbing rough-in	3	10-28-19	10-31-19		
1130	1st floor electrical rough-in	4	01-10-20	01-16-20		
1140	1st floor HVAC ductwork/rough-in	6	11-01-19	11-11-19		
1150	1st floor door & window frames	5	01-07-20	01-13-20		
1160	2nd floor columns	7	11-07-19	11-15-19		

Resource ID	Name	Budgeted Units / Time	Primary Resource	Remaining Units / Time	Original Lag	Start	Finish
Excavator.Exca		1/d	<input type="checkbox"/>	1/d	0	08-05-19	08-08-19
Forman-GC.Forr		1/d	<input type="checkbox"/>	1/d	0	08-05-19	08-08-19
Laborer-GC.Lab		3/d	<input type="checkbox"/>	3/d	0	08-05-19	08-08-19

As the budgeted total cost is a calculated parameter in Primavera P6, we cannot directly enter the costs into it. There were two options that we knew of to enter costs for each activity. One, was to enter expenses for each activity. The second, the one that we followed was to insert the costs into budgeted labor cost, and make sure that all other costs were zero. Therefore, the budgeted labor cost would be equal to the budgeted total cost.



Prior to entering the budgeted labor cost, we had to set the Default price/unit for activities without resource or role price/ units to \$1.00/h. Only after doing this does Primavera allow adding labor costs to activities (especially the ones without resources). This option can be found at Projects tab>Projects Details>Calculations.

After this we just added the budgeted labor cost column into our activities tab and manually entered all the values provided to us.

Activities							
Activities		Projects					
Layout: Classic Schedule Layout				Filter: All Activities			
Activity ID	Activity Name	Original Duration	Start	Finish	Budgeted Labor Cost	Budgeted Total Cost	
1000	NTP	0	08-05-19	08-05-19	\$0.00	\$0.00	
1010	Mobilization	3	08-05-19	08-08-19	\$2,000.00	\$2,000.00	
1020	Clear & Grub	12	08-09-19	08-27-19	\$0.00	\$0.00	
1030	Excavation	7	08-15-19	08-26-19	\$0.00	\$0.00	
1040	Foundation	15	08-20-19	09-12-19	\$5,000.00	\$5,000.00	
1050	Fill, Compact, and treat soil	3	09-13-19	09-17-19	\$1,000.00	\$1,000.00	
1060	1st floor plumbing rough-in	3	09-19-19	09-23-19	\$2,500.00	\$2,500.00	
1070	SOG	4	09-24-19	09-27-19	\$1,500.00	\$1,500.00	
1080	1st floor columns	7	09-19-19	09-27-19	\$1,200.00	\$1,200.00	
1090	1st floor external CMU walls	10	09-30-19	10-14-19	\$9,200.00	\$9,200.00	
1100	1st floor internal CMU walls	14	09-30-19	10-21-19	\$7,800.00	\$7,800.00	
1110	2nd floor suspended slab	8	10-22-19	10-31-19	\$3,000.00	\$3,000.00	
1120	2nd floor plumbing rough-in	3	10-28-19	10-31-19	\$2,500.00	\$2,500.00	
1130	1st floor electrical rough-in	4	01-10-20	01-16-20	\$6,000.00	\$6,000.00	
1140	1st floor HVAC ductwork/rough-in	6	11-01-19	11-11-19	\$7,000.00	\$7,000.00	
1150	1st floor door & window frames	5	01-07-20	01-13-20	\$3,500.00	\$3,500.00	
1160	2nd floor columns	7	11-07-19	11-15-19	\$1,200.00	\$1,200.00	
1170	2nd floor external CMU walls	12	11-01-19	11-19-19	\$11,500.00	\$11,500.00	

Assignment 2.2.A

Resource ID Name

Activity ID	Activity Name	Budgeted Unit / Time
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General Contractor

Laborer

1010	Mobilization	3/d
1020	Clear & Grub	4/d
1030	Excavation	3/d
1040	Foundation	3/d
1050	Fill, Compact, and treat soil	2/d
1080	1st floor columns	2/d
1070	SOG	2/d
1510	Building cleanup	3/d
1520	Final check/CO	1/d
1110	2nd floor suspended slab	2/d
1160	2nd floor columns	2/d

Forman

1010	Mobilization	1/d
1020	Clear & Grub	1/d
1030	Excavation	1/d
1040	Foundation	1/d
1050	Fill, Compact, and treat soil	1/d
1080	1st floor columns	1/d
1070	SOG	1/d
1510	Building cleanup	1/d
1520	Final check/CO	1/d
1110	2nd floor suspended slab	1/d
1160	2nd floor columns	1/d

Carpenter

1040	Foundation	2/d
1080	1st floor columns	2/d
1070	SOG	1/d
1110	2nd floor suspended slab	2/d
1160	2nd floor columns	1/d

Excavator

1010	Mobilization	1/d
1020	Clear & Grub	2/d
1030	Excavation	1/d
1040	Foundation	1/d
1050	Fill, Compact, and treat soil	1/d

Assignment 2.2.B

Responsibility		
Activity ID	Activity Name	Budgeted Total Cost
GC General Contractor		
1000	NTP	\$0.00
1010	Mobilization	\$2,000.00
1020	Clear & Grub	\$0.00
1030	Excavation	\$0.00
1040	Foundation	\$5,000.00
1050	Fill, Compact, and treat soil	\$1,000.00
1070	SOG	\$1,500.00
1080	1st floor columns	\$1,200.00
1110	2nd floor suspended slab	\$3,000.00
1160	2nd floor columns	\$1,200.00
1250	Building dry-in	\$0.00
1510	Building clean up	\$200.00
1520	Final check/CO	\$0.00
Subtotal		\$15,100.00
ACAL All Seasons AC & Heating		
1140	1st floor HVAC ductwork/rough-i	\$7,000.00
1210	2nd floor HVAC ductwork/rough-	\$7,000.00
1310	1st floor HVAC air handler	\$4,000.00
1390	2nd floor HVAC air handler	\$4,000.00
1440	HVAC: install equipment	\$22,000.00
1490	HVAC thermostat & Test	\$5,000.00
Subtotal		\$49,000.00
WALL Wall to Wall		
1300	1st floor drywall	\$6,500.00
1320	1st floor suspended ceiling	\$7,500.00
1340	1st floor paint/wall covering	\$5,700.00
1380	2nd floor drywall	\$7,000.00
1400	2nd floor suspended ceiling	\$7,500.00
1420	2nd floor paint/wall covering	\$5,400.00
1460	Stucco & paint to ext. walls	\$7,000.00
Subtotal		\$46,600.00
MART Master Art Landscape		
1470	Site work	\$30,000.00
Subtotal		\$30,000.00
MASE Mase & Company		
1090	1st floor external CMU walls	\$9,200.00
1100	1st floor internal CMU walls	\$7,800.00
1170	2nd floor external CMU walls	\$11,500.00
1180	2nd floor internal CMU walls	\$8,500.00
Subtotal		\$37,000.00

ROSS Ross Carpentry & Framing

1190	Roof trusses	\$10,000.00
1230	Roof Sheating	\$3,500.00
1260	Soffit & fascia	\$2,500.00
1270	Roof Insulation	\$4,000.00
1280	Internal partition framing	\$4,500.00

Subtotal **\$24,500.00**

PLMX Plumbing Experts

1060	1st floor plumbing rough-in	\$2,500.00
1120	2nd floor plumbing rough-in	\$2,500.00
1330	1st floor plumbing: install fixture:	\$7,500.00
1410	2nd floor plumbing: install fixture	\$7,500.00
1480	Plumbing Finish	\$4,500.00

Subtotal **\$24,500.00**

RABT Rabbit-the-Footer

1240	Roof felt	\$400.00
1265	Roof Shingles	\$8,000.00

Subtotal **\$8,400.00**

TACO Tile and Carpet Co., Inc

1360	1st floor flooring	\$11,000.00
1450	2nd floor flooring	\$8,500.00

Subtotal **\$19,500.00**

WINT Windows & Doors NT

1150	1st floor door & window frames	\$3,500.00
1220	2nd floor door & window frames	\$2,600.00
1290	1st floor: hang doors & windows	\$5,200.00
1370	2nd floor: hang doors & window:	\$4,200.00

Subtotal **\$15,500.00**

ZAPP Zapp Electric Co.

1130	1st floor electrical rough-in	\$6,000.00
1200	2nd floor electrical rough-in	\$6,000.00
1350	1st floor electrical finish	\$15,000.00
1430	2nd floor electrical finish	\$17,000.00
1500	Electrical final	\$9,500.00

Subtotal **\$53,500.00**

Assignment 2.2.C

Activity ID	Budgeted Total Cost
General Contractor	\$15,100.00
All Seasons AC & Heating	\$49,000.00
Wall to Wall	\$46,600.00
Master Art Landscape	\$30,000.00
Mase & Company	\$37,000.00
Ross Carpentry & Framing	\$24,500.00
Plumbing Experts	\$24,500.00
Rabbit-the-Footer	\$8,400.00
Tile and Carpet Co., Inc	\$19,500.00
Windows & Doors NT	\$15,500.00
Zapp Electric Co.	\$53,500.00
Total	\$323,600.00

Assignment 2.2.D

Responsibility		Budgeted Total Cost	Aug 2019	Sep 2019	Oct 2019	Nov 2019	Dec 2019	Jan 2020	Feb 2020	Mar 2020	Period Total
Activity ID	Activity Name	08-01-19 - 03-31-20									
GC General Contractor											
1000	NTP										\$0.00
1010	Mobilization		\$2,000.00								\$2,000.00
1020	Clear & Grub										\$0.00
1030	Excavation										\$0.00
1040	Foundation		\$2,666.67	\$2,333.33							\$5,000.00
1050	Fill, Compact, and treat soil			\$1,000.00							\$1,000.00
1070	SOG			\$1,500.00							\$1,500.00
1080	1st floor columns			\$1,200.00							\$1,200.00
1110	2nd floor suspended slab				\$3,000.00						\$3,000.00
1160	2nd floor columns					\$1,200.00					\$1,200.00
1250	Building dry-in										\$0.00
1510	Building cleanup									\$200.00	\$200.00
1520	Final check/CO										\$0.00
Subtotal			\$4,666.67	\$6,033.33	\$3,000.00	\$1,200.00				\$200.00	\$15,100.00

ACAL All Seasons AC & Heating

1140	1st floor HVAC ductwork/rough-in				\$7,000.00					\$7,000.00
1210	2nd floor HVAC ductwork/rough-in					\$7,000.00				\$7,000.00
1310	1st floor HVAC air handler						\$2,400.00	\$1,600.00		\$4,000.00
1390	2nd floor HVAC air handler							\$4,000.00		\$4,000.00
1440	HVAC: install equipment							\$22,000.00		\$22,000.00
1490	HVAC thermostat & Test								\$5,000.00	\$5,000.00

Subtotal \$7,000.00 \$7,000.00 \$2,400.00 \$27,600.00 \$5,000.00 \$49,000.00

WALL Wall to Wall

1300	1st floor drywall						\$6,500.00			\$6,500.00
1320	1st floor suspended ceiling						\$2,812.50	\$4,687.50		\$7,500.00
1340	1st floor paint/wall covering							\$5,700.00		\$5,700.00
1380	2nd floor drywall						\$2,625.00	\$4,375.00		\$7,000.00
1400	2nd floor suspended ceiling							\$7,500.00		\$7,500.00
1420	2nd floor paint/wall covering							\$4,418.18	\$981.82	\$5,400.00
1460	Stucco & paint to ext. walls					\$875.00	\$6,125.00			\$7,000.00

Subtotal \$875.00 \$18,062.50 \$26,680.68 \$981.82 \$46,600.00

MART Master Art Landscape

1470	Site work							\$10,000.00	\$20,000.00	\$30,000.00
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Subtotal \$10,000.00 \$20,000.00 \$30,000.00

MASE Mase & Company

1090	1st floor external CMU walls		\$920.00	\$8,280.00					\$9,200.00
1100	1st floor internal CMU walls		\$557.14	\$7,242.86					\$7,800.00
1170	2nd floor external CMU walls				\$11,500.00				\$11,500.00
1180	2nd floor internal CMU walls				\$7,968.75	\$531.25			\$8,500.00

Subtotal \$1,477.14 \$15,522.86 \$19,468.75 \$531.25 \$37,000.00

ROSS Ross Carpentry & Framing

1190	Roof trusses				\$10,000.00				\$10,000.00
1230	Roof Sheating				\$3,500.00				\$3,500.00
1260	Soffit & fascia				\$2,500.00				\$2,500.00
1270	Roof Insulation				\$4,000.00				\$4,000.00
1280	Internal partition framing				\$1,500.00	\$3,000.00			\$4,500.00

Subtotal \$21,500.00 \$3,000.00 \$24,500.00

PLMX Plumbing Experts

1060	1st floor plumbing rough-in		\$2,500.00						\$2,500.00
1120	2nd floor plumbing rough-in			\$2,500.00					\$2,500.00
1330	1st floor plumbing: install fixtures					\$7,500.00			\$7,500.00
1410	2nd floor plumbing: install fixtures						\$7,500.00		\$7,500.00
1480	Plumbing Finish						\$4,500.00		\$4,500.00

Subtotal \$2,500.00 \$2,500.00 \$7,500.00 \$12,000.00 \$24,500.00

RABT Rabbit-the-Footer

1240	Roof felt				\$400.00				\$400.00
1265	Roof Shingles				\$5,333.33	\$2,666.67			\$8,000.00

Subtotal \$5,733.33 \$2,666.67 \$8,400.00

TACO Tile and Carpet Co., Inc

1360	1st floor flooring							\$6,416.67	\$4,583.33	\$11,000.00
1450	2nd floor flooring								\$8,500.00	\$8,500.00

Subtotal **\$6,416.67 \$13,083.33 \$19,500.00**

WINT Windows & Doors NT

1150	1st floor door & window frames					\$3,500.00				\$3,500.00
1220	2nd floor door & window frames					\$2,600.00				\$2,600.00
1290	1st floor: hang doors & windows					\$5,200.00				\$5,200.00
1370	2nd floor: hang doors & windows					\$4,200.00				\$4,200.00

Subtotal **\$15,500.00 \$15,500.00**

ZAPP Zapp Electric Co.

1130	1st floor electrical rough-in					\$6,000.00				\$6,000.00
1200	2nd floor electrical rough-in					\$6,000.00				\$6,000.00
1350	1st floor electrical finish						\$15,000.00			\$15,000.00
1430	2nd floor electrical finish						\$14,166.67	\$2,833.33		\$17,000.00
1500	Electrical final							\$9,500.00		\$9,500.00

Subtotal **\$12,000.00 \$29,166.67 \$12,333.33 \$53,500.00**

Total **\$4,666.67 \$10,010.48 \$21,022.86 \$27,668.75 \$35,639.58 \$61,129.17 \$111,864.02 \$51,598.48 \$323,600.00**

Assignment 3

Firstly, we added the data date to the project as 4th of September 2019. This was done from the Project's Tab>Project details>Dates.

- Updating for completed activities.
- Updating activities that are in progress.
- Changing duration of an activity.

The screenshot shows the 'Schedule Dates' tab with the following fields:

Project Planned Start	08-05-19	Must Finish By	
Data Date	09-04-19	Finish	04-01-20
Actual Start	08-05-19	Actual Finish	

For each activity that has started and completed, we entered the dates in the status tab inside the activity details. After entering the dates, we ticked the started and finished check boxes.

The screenshot shows the 'Status' tab for activity 1020 with the following data:

Original	14	<input checked="" type="checkbox"/> Started	08-09-19	Duration %	100%
Actual	14	<input checked="" type="checkbox"/> Finished	08-29-19	Suspend	
Remaining	0	Exp Finish		Resume	
At Complete	14				

Constraints:

Primary	< None >	Secondary	< None >
Date		Date	

The foundation activity had only started and was in progress, we entered the start date and checked the started check box. This activity was expected to have a remaining duration of 10 days. We added 10 working days from the data date (based on the tampa schedule calendar) and inserted that date into the finished date (without checking the box).

Category	Field	Value
Duration	Original	17
	Actual	7
	Remaining	10
	At Complete	17
Total Float	Total Float	0
	Free Float	0
Status	Started	<input checked="" type="checkbox"/> 08-23-19 41.18%
	Finished	<input type="checkbox"/> 09-19-19
	Exp Finish	09-19-19
Constraints	Primary	<None>
	Secondary	<None>

Finally, we changed the original duration for 2nd floor suspended slab from 8 days to 10 days.

Category	Field	Value
Duration	Original	10
	Actual	0
	Remaining	10
	At Complete	10
Total Float	Total Float	0
	Free Float	0
Status	Started	<input type="checkbox"/> 10-28-19 0%
	Finished	<input type="checkbox"/> 11-11-19
	Exp Finish	
Constraints	Primary	<None>
	Secondary	<None>

After updating all the activities, we scheduled the project again.

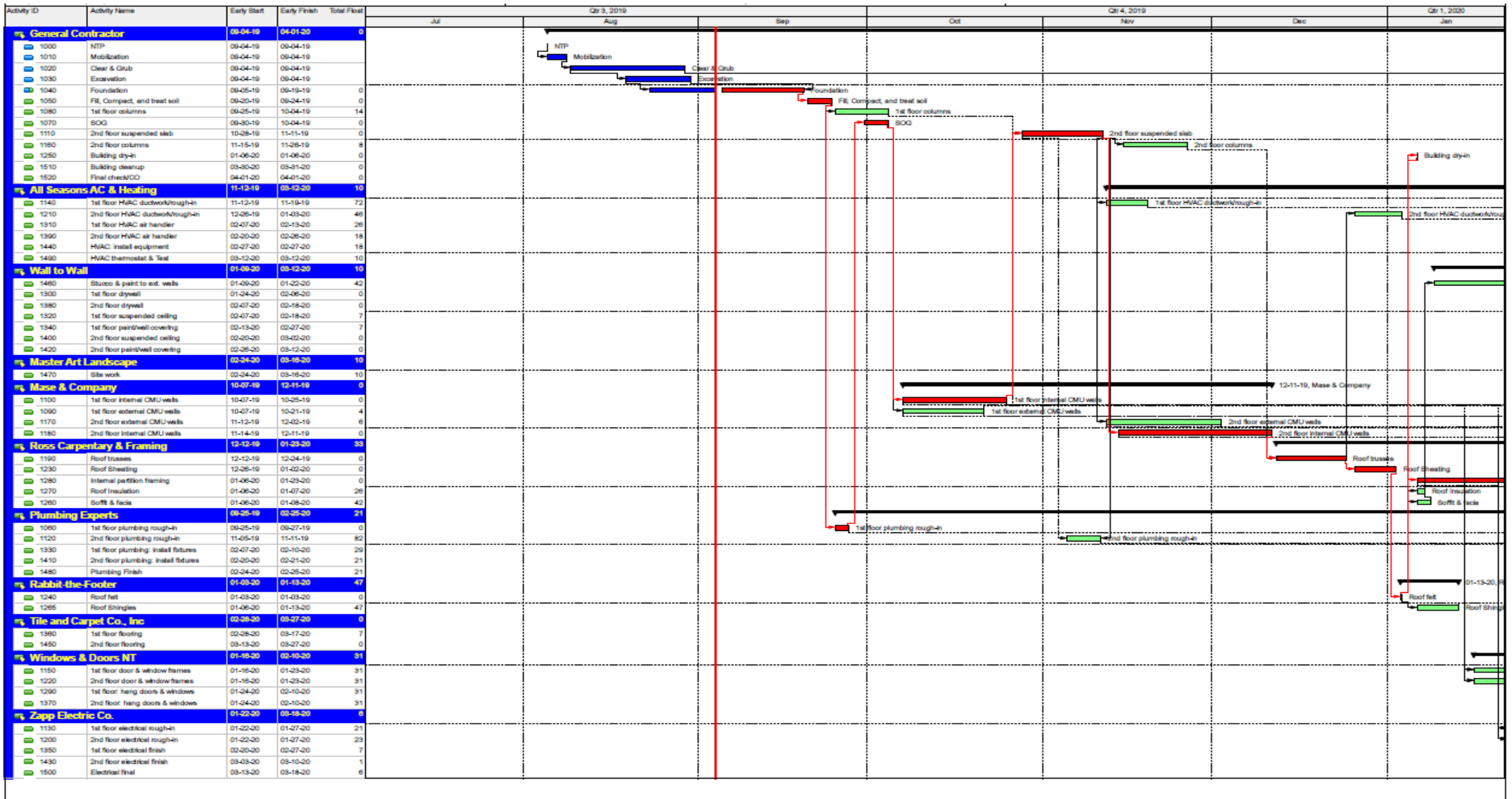
For assignments 3.5 and later, we changed the “Must finish by” date to the original date that we got in the first assignment, i.e., 23rd March 2019. This was done from the Project’s tab>project details>Dates.

Field	Value
Project Planned Start	08-05-19
Must Finish By	03-23-20
Data Date	09-04-19
Finish	04-01-20
Actual Start	08-05-19
Actual Finish	

Assignment 3.3.A

Activity ID	Activity Name	Early Start	Early Finish	Late Start	Late Finish	Total Float
1000	NTP	09-04-19	09-04-19	09-05-19	09-05-19	
1010	Mobilization	09-04-19	09-04-19	09-05-19	09-05-19	
1020	Clear & Grub	09-04-19	09-04-19	09-05-19	09-05-19	
1030	Excavation	09-04-19	09-04-19	09-05-19	09-05-19	
1040	Foundation	09-05-19	09-19-19	09-05-19	09-19-19	0
1050	Fill, Compact, and treat soil	09-20-19	09-24-19	09-20-19	09-24-19	0
1060	1st floor plumbing rough-in	09-25-19	09-27-19	09-25-19	09-27-19	0
1080	1st floor columns	09-25-19	10-04-19	10-17-19	10-25-19	14
1070	SOG	09-30-19	10-04-19	09-30-19	10-04-19	0
1100	1st floor internal CMU walls	10-07-19	10-25-19	10-07-19	10-25-19	0
1090	1st floor external CMU walls	10-07-19	10-21-19	10-11-19	10-25-19	4
1110	2nd floor suspended slab	10-28-19	11-11-19	10-28-19	11-11-19	0
1120	2nd floor plumbing rough-in	11-05-19	11-11-19	03-18-20	03-20-20	82
1170	2nd floor external CMU walls	11-12-19	12-02-19	11-21-19	12-11-19	6
1140	1st floor HVAC ductwork/rough-in	11-12-19	11-19-19	03-09-20	03-17-20	72
1180	2nd floor internal CMU walls	11-14-19	12-11-19	11-14-19	12-11-19	0
1160	2nd floor columns	11-15-19	11-26-19	12-02-19	12-11-19	8
1190	Roof trusses	12-12-19	12-24-19	12-12-19	12-24-19	0
1230	Roof Sheating	12-26-19	01-02-20	12-26-19	01-02-20	0
1210	2nd floor HVAC ductwork/rough-in	12-26-19	01-03-20	03-09-20	03-17-20	46
1240	Roof felt	01-03-20	01-03-20	01-03-20	01-03-20	0
1250	Building dry-in	01-06-20	01-06-20	01-03-20	01-03-20	0
1280	Internal partition framing	01-06-20	01-23-20	01-06-20	01-23-20	0
1270	Roof Insulation	01-06-20	01-07-20	02-17-20	02-18-20	26
1260	Soffit & fascia	01-06-20	01-08-20	03-12-20	03-16-20	42
1265	Roof Shingles	01-06-20	01-13-20	03-19-20	03-27-20	47
1460	Stucco & paint to ext. walls	01-09-20	01-22-20	03-17-20	03-27-20	42
1150	1st floor door & window frame	01-16-20	01-23-20	03-05-20	03-12-20	31
1220	2nd floor door & window frame	01-16-20	01-23-20	03-05-20	03-12-20	31
1130	1st floor electrical rough-in	01-22-20	01-27-20	02-25-20	02-28-20	21
1200	2nd floor electrical rough-in	01-22-20	01-27-20	02-27-20	03-03-20	23
1300	1st floor drywall	01-24-20	02-06-20	01-24-20	02-06-20	0
1290	1st floor: hang doors & window	01-24-20	02-10-20	03-13-20	03-27-20	31
1370	2nd floor: hang doors & windows	01-24-20	02-10-20	03-13-20	03-27-20	31
1380	2nd floor drywall	02-07-20	02-18-20	02-07-20	02-18-20	0
1320	1st floor suspended ceiling	02-07-20	02-18-20	02-18-20	02-28-20	7
1310	1st floor HVAC air handler	02-07-20	02-13-20	03-18-20	03-24-20	26
1330	1st floor plumbing: install fixtures	02-07-20	02-10-20	03-23-20	03-24-20	29
1340	1st floor paint/wall covering	02-13-20	02-27-20	02-25-20	03-09-20	7
1400	2nd floor suspended ceiling	02-20-20	03-02-20	02-20-20	03-02-20	0
1350	1st floor electrical finish	02-20-20	02-27-20	03-02-20	03-09-20	7
1390	2nd floor HVAC air handler	02-20-20	02-26-20	03-18-20	03-24-20	18
1410	2nd floor plumbing: install fixtures	02-20-20	02-21-20	03-23-20	03-24-20	21
1470	Site work	02-24-20	03-16-20	03-09-20	03-31-20	10
1480	Plumbing Finish	02-24-20	02-25-20	03-26-20	03-27-20	21
1420	2nd floor paint/wall covering	02-26-20	03-12-20	02-26-20	03-12-20	0
1440	HVAC: install equipment	02-27-20	02-27-20	03-26-20	03-26-20	18
1360	1st floor flooring	02-28-20	03-17-20	03-10-20	03-27-20	7
1430	2nd floor electrical finish	03-03-20	03-10-20	03-04-20	03-12-20	1
1490	HVAC thermostat & Test	03-12-20	03-12-20	03-27-20	03-27-20	10
1450	2nd floor flooring	03-13-20	03-27-20	03-13-20	03-27-20	0
1500	Electrical final	03-13-20	03-18-20	03-23-20	03-27-20	6
1510	Building cleanup	03-30-20	03-31-20	03-30-20	03-31-20	0
1520	Final check/CO	04-01-20	04-01-20	04-01-20	04-01-20	0

Assignment 3.3.B



Assignment 3.5

Activity ID	Activity Name	Early Start	Early Finish	Total Float
1000	NTP	09-04-19	09-04-19	
1010	Mobilization	09-04-19	09-04-19	
1020	Clear & Grub	09-04-19	09-04-19	
1030	Excavation	09-04-19	09-04-19	
1040	Foundation	09-05-19	09-19-19	-7
1050	Fill, Compact, and treat soil	09-20-19	09-24-19	-7
1060	1st floor plumbing rough-in	09-25-19	09-27-19	-7
1080	1st floor columns	09-25-19	10-04-19	7
1070	SOG	09-30-19	10-04-19	-7
1100	1st floor internal CMU walls	10-07-19	10-25-19	-7
1090	1st floor external CMU walls	10-07-19	10-21-19	-3
1110	2nd floor suspended slab	10-28-19	11-11-19	-7
1120	2nd floor plumbing rough-in	11-05-19	11-11-19	75
1170	2nd floor external CMU walls	11-12-19	12-02-19	-1
1140	1st floor HVAC ductwork/rough-i	11-12-19	11-19-19	65
1180	2nd floor internal CMU walls	11-14-19	12-11-19	-7
1160	2nd floor columns	11-15-19	11-26-19	1
1190	Roof trusses	12-12-19	12-24-19	-7
1230	Roof Sheating	12-26-19	01-02-20	-7
1210	2nd floor HVAC ductwork/rough-	12-26-19	01-03-20	39
1240	Roof felt	01-03-20	01-03-20	-7
1250	Building dry-in	01-06-20	01-06-20	-7
1280	Internal partition framing	01-06-20	01-23-20	-7
1270	Roof Insulation	01-06-20	01-07-20	19
1260	Soffit & fascia	01-06-20	01-08-20	35
1265	Roof Shingles	01-06-20	01-13-20	40
1460	Stucco & paint to ext. walls	01-09-20	01-22-20	35
1150	1st floor door & window frames	01-16-20	01-23-20	24
1220	2nd floor door & window frames	01-16-20	01-23-20	24
1130	1st floor electrical rough-in	01-22-20	01-27-20	14
1200	2nd floor electrical rough-in	01-22-20	01-27-20	16
1300	1st floor drywall	01-24-20	02-06-20	-7
1290	1st floor: hang doors & windows	01-24-20	02-10-20	24
1370	2nd floor: hang doors & windows	01-24-20	02-10-20	24
1380	2nd floor drywall	02-07-20	02-18-20	-7
1320	1st floor suspended ceiling	02-07-20	02-18-20	0
1310	1st floor HVAC air handler	02-07-20	02-13-20	19
1330	1st floor plumbing: install fixture	02-07-20	02-10-20	22
1340	1st floor paint/wall covering	02-13-20	02-27-20	0
1400	2nd floor suspended ceiling	02-20-20	03-02-20	-7
1350	1st floor electrical finish	02-20-20	02-27-20	0
1390	2nd floor HVAC air handler	02-20-20	02-26-20	11
1410	2nd floor plumbing: install fixture	02-20-20	02-21-20	14
1470	Site work	02-24-20	03-16-20	3
1480	Plumbing Finish	02-24-20	02-25-20	14
1420	2nd floor paint/wall covering	02-26-20	03-12-20	-7
1440	HVAC: install equipment	02-27-20	02-27-20	11
1360	1st floor flooring	02-28-20	03-17-20	0
1430	2nd floor electrical finish	03-03-20	03-10-20	-6
1490	HVAC thermostat & Test	03-12-20	03-12-20	3
1450	2nd floor flooring	03-13-20	03-27-20	-7
1500	Electrical final	03-13-20	03-18-20	-1
1510	Building clean up	03-30-20	03-31-20	-7
1520	Final check/CO	04-01-20	04-01-20	-7

Assignment 3.6

Activity ID	Activity Name	Early Start	Early Finish	Total Float
1040	Foundation	09-05-19	09-19-19	-7
1050	Fill, Compact, and treat soil	09-20-19	09-24-19	-7
1060	1st floor plumbing rough-in	09-25-19	09-27-19	-7
1070	SOG	09-30-19	10-04-19	-7
1100	1st floor internal CMU walls	10-07-19	10-25-19	-7
1090	1st floor external CMU walls	10-07-19	10-21-19	-3
1110	2nd floor suspended slab	10-28-19	11-11-19	-7
1170	2nd floor external CMU walls	11-12-19	12-02-19	-1
1180	2nd floor internal CMU walls	11-14-19	12-11-19	-7
1190	Roof trusses	12-12-19	12-24-19	-7
1230	Roof Sheating	12-26-19	01-02-20	-7
1240	Roof felt	01-03-20	01-03-20	-7
1250	Building dry-in	01-06-20	01-06-20	-7
1280	Internal partition framing	01-06-20	01-23-20	-7
1300	1st floor drywall	01-24-20	02-06-20	-7
1380	2nd floor drywall	02-07-20	02-18-20	-7
1400	2nd floor suspended ceiling	02-20-20	03-02-20	-7
1420	2nd floor paint/wall covering	02-26-20	03-12-20	-7
1430	2nd floor electrical finish	03-03-20	03-10-20	-6
1450	2nd floor flooring	03-13-20	03-27-20	-7
1500	Electrical final	03-13-20	03-18-20	-1
1510	Building cleanup	03-30-20	03-31-20	-7
1520	Final check/CO	04-01-20	04-01-20	-7

Assignment 4

Change Order

We added the activities the same way as before, i.e., Using the add button on the command bar on the right. Inserting the activity ID and predecessors, places the activity in our schedule exactly where we want them.

Activity ID	Activity Name	Original Duration	Start	Finish	Budgeted Labor Cost	Budgeted Total Cost	Responsibility	WBS
1000	NTP	0	08-05-19	08-05-19	\$0.00	\$0.00	GC	Tampa Office-4upd.All
1010	Mobilization	3	08-05-19	08-08-19	\$2,000.00	\$2,000.00	GC	Tampa Office-4upd.All
1020	Clear & Grub	12	08-09-19	08-27-19	\$0.00	\$0.00	GC	Tampa Office-4upd.All
1030	Excavation	7	08-15-19	08-26-19	\$0.00	\$0.00	GC	Tampa Office-4upd.All
1040	Foundation	15	08-20-19	09-12-19	\$5,000.00	\$5,000.00	GC	Tampa Office-4upd.All
1050	Fill, Compact, and treat soil	3	09-13-19	09-17-19	\$1,000.00	\$1,000.00	GC	Tampa Office-4upd.All
1060	1st floor plumbing rough-in	3	09-19-19	09-23-19	\$2,500.00	\$2,500.00	PLMX	Tampa Office-4upd.1st
1070	SDG	5	09-24-19	09-30-19	\$2,000.00	\$2,000.00	GC	Tampa Office-4upd.All
1080	1st floor columns	7	09-19-19	09-27-19	\$900.00	\$900.00	GC	Tampa Office-4upd.1st
1085	FRP vault walls	6	10-01-19	10-09-19	\$800.00	\$800.00	GC	Tampa Office-4upd.1st
1087	Vault door	2	10-10-19	10-11-19	\$3,000.00	\$3,000.00	WINT	Tampa Office-4upd.1st
1090	1st floor external CMU walls	10	10-01-19	10-15-19	\$9,200.00	\$9,200.00	MASE	Tampa Office-4upd.1st
1100	1st floor internal CMU walls	14	10-01-19	10-22-19	\$7,800.00	\$7,800.00	MASE	Tampa Office-4upd.1st
1110	2nd floor suspended slab	8	10-23-19	11-01-19	\$3,000.00	\$3,000.00	GC	Tampa Office-4upd.2nd
1120	2nd floor plumbing rough-in	3	10-29-19	11-01-19	\$2,500.00	\$2,500.00	PLMX	Tampa Office-4upd.2nd

Any of the adjustments required for existing activities were made on their respective cells. We also made the adjustments to the interrelationships of the activities through the predecessors' tab in the activity details, as seen below.

Activity ID	Activity Name	Activity Status
1250	Building dry-in	Not Started
1280	Internal partition framing	Not Started
1440	HVAC: install equipment	Not Started
1460	Stucco & paint to ext. walls	Not Started
1470	Site work	Not Started
1480	Plumbing Finish	Not Started
1490	HVAC thermostat & Test	Not Started
1500	Electrical final	Not Started
1510	Building cleanup	Not Started
1520	Final check/CO	Not Started
1060	1st floor plumbing rough-in	Not Started
1080	1st floor columns	Not Started
1085	FRP vault walls	Not Started
1087	Vault door	Not Started
1090	1st floor external CMU walls	Not Started
1100	1st floor internal CMU walls	Not Started
1130	1st floor electrical rough-in	Not Started
1140	1st floor HVAC ductwork/rough-in	Not Started

Activity ID	Activity Name	Relations	Lag	Activity Status	Primary Resource
1080	1st floor columns	FS	0	Not Started	
1085	FRP vault walls	FS	0	Not Started	
1090	1st floor external CMU walls	FS	0	Not Started	
1100	1st floor internal CMU walls	FS	0	Not Started	

After adding the new activities and their respective information and adjusting the existing activities we scheduled the project again.

General	Notebook	Budget Log	Spending Plan	Budget Summary	Dates	Funding	Codes	Defaults	Resources	Settings	Calculations
Schedule Dates											
Project Planned Start						Must Finish By					
08-05-19											
Data Date						Finish					
08-05-19						03-24-20					
Actual Start						Actual Finish					

The project's finish date has increased by one day after applying the change order, i.e., from 23rd March 2020 to 24th March 2020.

Assignment 4.4.A

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Total Float	Responsibility	WBS
1000	NTP	0	08-05-19	08-05-19	0	GC	Tampa Office-4upd.All
1010	Mobilization	3	08-05-19	08-08-19	0	GC	Tampa Office-4upd.All
1020	Clear & Grub	12	08-09-19	08-27-19	0	GC	Tampa Office-4upd.All
1030	Excavation	7	08-15-19	08-26-19	0	GC	Tampa Office-4upd.All
1040	Foundation	15	08-20-19	09-12-19	0	GC	Tampa Office-4upd.All
1050	Fill, Compact, and treat soil	3	09-13-19	09-17-19	0	GC	Tampa Office-4upd.All
1060	1st floor plumbing rough-in	3	09-19-19	09-23-19	0	PLMX	Tampa Office-4upd.1st
1070	SOG	5	09-24-19	09-30-19	0	GC	Tampa Office-4upd.All
1080	1st floor columns	7	09-19-19	09-27-19	15	GC	Tampa Office-4upd.1st
1085	FRP vault walls	6	10-01-19	10-09-19	8	GC	Tampa Office-4upd.1st
1087	Vault door	2	10-10-19	10-11-19	58	WINT	Tampa Office-4upd.1st
1090	1st floor external CMU walls	10	10-01-19	10-15-19	4	MASE	Tampa Office-4upd.1st
1100	1st floor internal CMU walls	14	10-01-19	10-22-19	0	MASE	Tampa Office-4upd.1st
1110	2nd floor suspended slab	8	10-23-19	11-01-19	0	GC	Tampa Office-4upd.2nd
1120	2nd floor plumbing rough-in	3	10-29-19	11-01-19	82	PLMX	Tampa Office-4upd.2nd
1130	1st floor electrical rough-in	4	01-13-20	01-17-20	21	ZAPP	Tampa Office-4upd.1st
1140	1st floor HVAC ductwork/rough-in	6	11-04-19	11-12-19	72	ACAL	Tampa Office-4upd.1st
1150	1st floor door & window frames	5	01-08-20	01-14-20	31	WINT	Tampa Office-4upd.1st
1160	2nd floor columns	7	11-08-19	11-18-19	8	GC	Tampa Office-4upd.2nd
1170	2nd floor external CMU walls	12	11-04-19	11-21-19	6	MASE	Tampa Office-4upd.2nd
1180	2nd floor internal CMU walls	16	11-07-19	12-03-19	0	MASE	Tampa Office-4upd.2nd
1190	Roof trusses	8	12-05-19	12-16-19	0	ROSS	Tampa Office-4upd.Roof
1200	2nd floor electrical rough-in	4	01-13-20	01-17-20	23	ZAPP	Tampa Office-4upd.2nd
1210	2nd floor HVAC ductwork/rough-in	6	12-17-19	12-26-19	46	ACAL	Tampa Office-4upd.2nd
1220	2nd floor door & window frames	5	01-08-20	01-14-20	31	WINT	Tampa Office-4upd.2nd
1230	Roof Sheeting	5	12-17-19	12-24-19	0	ROSS	Tampa Office-4upd.Roof

1240	Roof felt	1	12-26-19	12-26-19	0	RABT	Tampa Office-4upd.Roof
1250	Building dry-in	0	12-27-19	12-27-19	0	GC	Tampa Office-4upd.All
1260	Soffit & fascia	3	12-27-19	12-31-19	42	ROSS	Tampa Office-4upd.Roof
1265	Roof Shingles	6	12-27-19	01-06-20	47	RABT	Tampa Office-4upd.Roof
1270	Roof Insulation	2	12-27-19	12-30-19	26	ROSS	Tampa Office-4upd.Roof
1280	Internal partition framing	12	12-27-19	01-14-20	0	ROSS	Tampa Office-4upd.All
1290	1st floor: hang doors & windows	10	01-16-20	01-31-20	31	WINT	Tampa Office-4upd.1st
1300	1st floor drywall	8	01-16-20	01-28-20	0	WALL	Tampa Office-4upd.1st
1310	1st floor HVAC air handler	5	01-30-20	02-06-20	26	ACAL	Tampa Office-4upd.1st
1320	1st floor suspended ceiling	8	01-30-20	02-11-20	7	WALL	Tampa Office-4upd.1st
1330	1st floor plumbing: install fixtures	2	01-30-20	01-31-20	29	PLMX	Tampa Office-4upd.1st
1340	1st floor paint/wall covering	10	02-06-20	02-20-20	7	WALL	Tampa Office-4upd.1st
1350	1st floor electrical finish	6	02-12-20	02-20-20	7	ZAPP	Tampa Office-4upd.1st
1360	1st floor flooring	12	02-21-20	03-09-20	7	TACO	Tampa Office-4upd.1st
1370	2nd floor: hang doors & windows	10	01-16-20	01-31-20	31	WINT	Tampa Office-4upd.2nd
1380	2nd floor drywall	8	01-30-20	02-11-20	0	WALL	Tampa Office-4upd.2nd
1390	2nd floor HVAC air handler	5	02-12-20	02-18-20	18	ACAL	Tampa Office-4upd.2nd
1400	2nd floor suspended ceiling	8	02-12-20	02-24-20	0	WALL	Tampa Office-4upd.2nd
1410	2nd floor plumbing: install fixtures	2	02-12-20	02-13-20	21	PLMX	Tampa Office-4upd.2nd
1420	2nd floor paint/wall covering	11	02-18-20	03-04-20	0	WALL	Tampa Office-4upd.2nd
1430	2nd floor electrical finish	6	02-25-20	03-03-20	1	ZAPP	Tampa Office-4upd.2nd
1440	HVAC: install equipment	1	02-20-20	02-20-20	18	ACAL	Tampa Office-4upd.All
1450	2nd floor flooring	10	03-05-20	03-19-20	0	TACO	Tampa Office-4upd.2nd
1460	Stucco & paint to ext. walls	8	01-02-20	01-13-20	42	WALL	Tampa Office-4upd.All
1470	Site work	15	02-24-20	03-16-20	5	MART	Tampa Office-4upd.All
1480	Plumbing Finish	2	02-14-20	02-17-20	21	PLMX	Tampa Office-4upd.All
1490	HVAC thermostat & Test	1	03-04-20	03-04-20	10	ACAL	Tampa Office-4upd.All
1500	Electrical final	4	03-05-20	03-10-20	6	ZAPP	Tampa Office-4upd.All
1510	Building cleanup	2	03-20-20	03-23-20	0	GC	Tampa Office-4upd.All
1520	Final check/CO	1	03-24-20	03-24-20	0	GC	Tampa Office-4upd.All

Total 146 08-05-19 03-24-20 0

Assignment 4.4.B

Activity ID	Activity Name
1000	NTP
1010	Mobilization
1020	Clear & Grub
1030	Excavation
1040	Foundation
1050	Fill, Compact, and treat soil
1060	1st floor plumbing rough-in
1070	SOG
1080	1st floor columns
1085	FRP vault walls
1087	Vault door
1090	1st floor external CMU walls
1100	1st floor internal CMU walls
1110	2nd floor suspended slab
1120	2nd floor plumbing rough-in
1130	1st floor electrical rough-in
1140	1st floor HVAC ductwork/rough
1150	1st floor door & window frames
1160	2nd floor columns
1170	2nd floor external CMU walls
1180	2nd floor internal CMU walls
1190	Roof trusses
1200	2nd floor electrical rough-in
1210	2nd floor HVAC ductwork/rough-in
1220	2nd floor door & window frames
1230	Roof Sheating
1240	Roof felt
1250	Building dry-in
1260	Soffit & fascia
1265	Roof Shingles
1270	Roof Insulation
1280	Internal partition framing
1290	1st floor: hang doors & window
1300	1st floor drywall
1310	1st floor HVAC air handler
1320	1st floor suspended ceiling
1330	1st floor plumbing: install fixture
1340	1st floor paint/wall covering

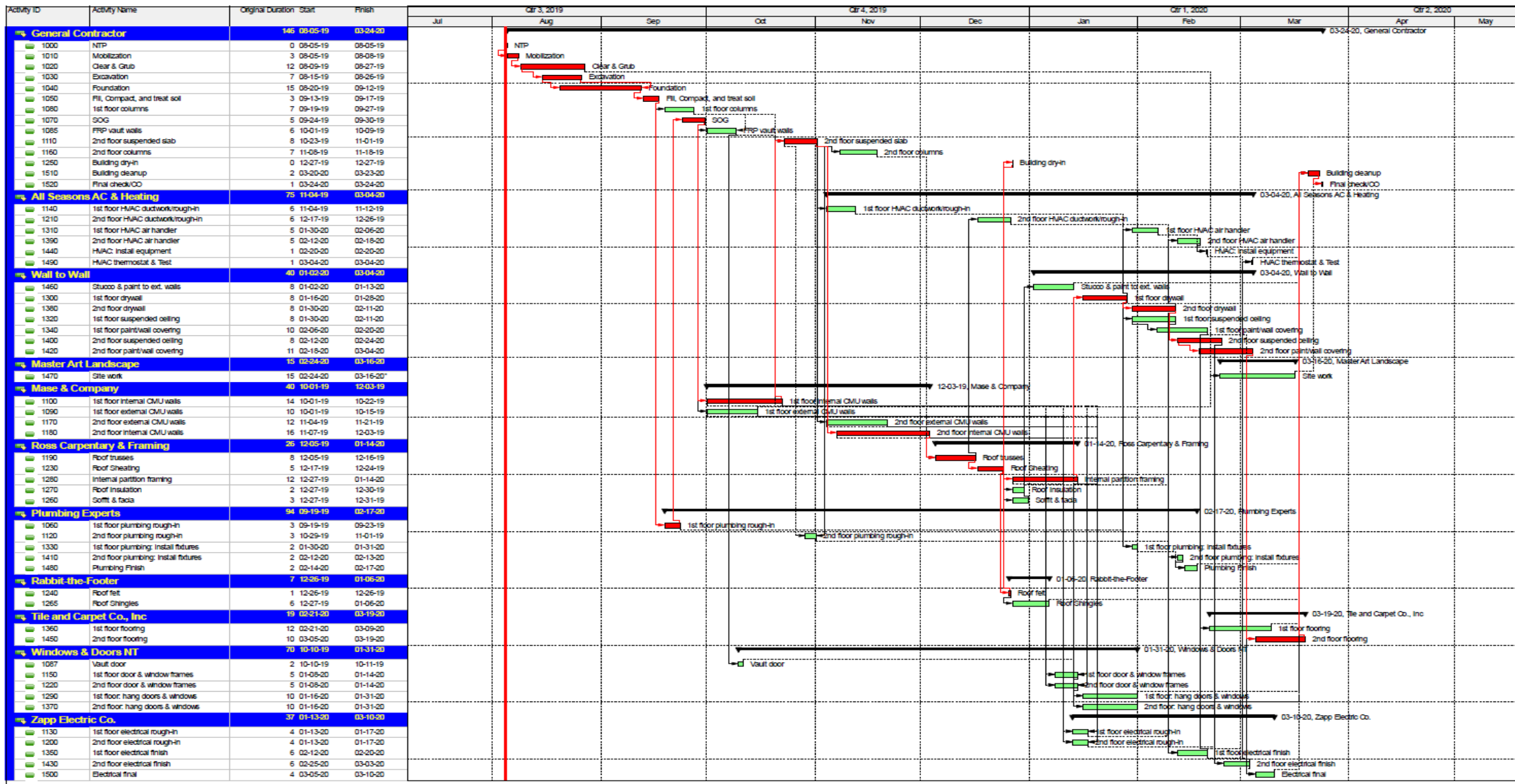
Activity ID	Activity Name
1350	1st floor electrical finish
1360	1st floor flooring
1370	2nd floor: hang doors & window
1380	2nd floor drywall
1390	2nd floor HVAC air handler
1400	2nd floor suspended ceiling
1410	2nd floor plumbing: install fixtur
1420	2nd floor paint/wall covering
1430	2nd floor electrical finish
1440	HVAC: install equipment
1450	2nd floor flooring
1460	Stucco & paint to ext. walls
1470	Site work
1480	Plumbing Finish
1490	HVAC thermostat & Test
1500	Electrical final
1510	Building cleanup
1520	Final check/CO

Assignment 4.4.C

Activity ID	Activity Name	Early Star	Early Finish	Late Start	Late Finish	Total Floa
1000	NTP	08-05-19	08-05-19	08-02-19	08-02-19	0
1010	Mobilization	08-05-19	08-08-19	08-05-19	08-08-19	0
1020	Clear & Grub	08-09-19	08-27-19	08-09-19	08-27-19	0
1030	Excavation	08-15-19	08-26-19	08-15-19	08-26-19	0
1040	Foundation	08-20-19	09-12-19	08-20-19	09-12-19	0
1050	Fill, Compact, and treat soil	09-13-19	09-17-19	09-13-19	09-17-19	0
1060	1st floor plumbing rough-in	09-19-19	09-23-19	09-19-19	09-23-19	0
1080	1st floor columns	09-19-19	09-27-19	10-11-19	10-22-19	15
1070	SOG	09-24-19	09-30-19	09-24-19	09-30-19	0
1100	1st floor internal CMU walls	10-01-19	10-22-19	10-01-19	10-22-19	0
1090	1st floor external CMU walls	10-01-19	10-15-19	10-08-19	10-22-19	4
1085	FRP vault walls	10-01-19	10-09-19	10-14-19	10-22-19	8
1087	Vault door	10-10-19	10-11-19	01-13-20	01-14-20	58
1110	2nd floor suspended slab	10-23-19	11-01-19	10-23-19	11-01-19	0
1120	2nd floor plumbing rough-in	10-29-19	11-01-19	03-10-20	03-13-20	82
1170	2nd floor external CMU walls	11-04-19	11-21-19	11-13-19	12-03-19	6
1140	1st floor HVAC ductwork/rough	11-04-19	11-12-19	03-02-20	03-09-20	72
1180	2nd floor internal CMU walls	11-07-19	12-03-19	11-07-19	12-03-19	0
1160	2nd floor columns	11-08-19	11-18-19	11-21-19	12-03-19	8
1190	Roof trusses	12-05-19	12-16-19	12-05-19	12-16-19	0
1230	Roof Sheating	12-17-19	12-24-19	12-17-19	12-24-19	0
1210	2nd floor HVAC ductwork/rough-in	12-17-19	12-26-19	03-02-20	03-09-20	46
1240	Roof felt	12-26-19	12-26-19	12-26-19	12-26-19	0
1250	Building dry-in	12-27-19	12-27-19	12-26-19	12-26-19	0
1280	Internal partition framing	12-27-19	01-14-20	12-27-19	01-14-20	0
1270	Roof Insulation	12-27-19	12-30-19	02-10-20	02-11-20	26
1260	Soffit & fascia	12-27-19	12-31-19	03-04-20	03-06-20	42
1265	Roof Shingles	12-27-19	01-06-20	03-12-20	03-19-20	47
1460	Stucco & paint to ext. walls	01-02-20	01-13-20	03-09-20	03-19-20	42
1150	1st floor door & window frames	01-08-20	01-14-20	02-27-20	03-04-20	31
1220	2nd floor door & window frame:	01-08-20	01-14-20	02-27-20	03-04-20	31
1130	1st floor electrical rough-in	01-13-20	01-17-20	02-17-20	02-21-20	21
1200	2nd floor electrical rough-in	01-13-20	01-17-20	02-20-20	02-25-20	23
1300	1st floor drywall	01-16-20	01-28-20	01-16-20	01-28-20	0
1290	1st floor: hang doors & window	01-16-20	01-31-20	03-05-20	03-19-20	31
1370	2nd floor: hang doors & window	01-16-20	01-31-20	03-05-20	03-19-20	31
1380	2nd floor drywall	01-30-20	02-11-20	01-30-20	02-11-20	0
1320	1st floor suspended ceiling	01-30-20	02-11-20	02-11-20	02-21-20	7

Activity ID	Activity Name	Early Star	Early Finish	Late Start	Late Finish	Total Floa
1310	1st floor HVAC air handler	01-30-20	02-06-20	03-10-20	03-17-20	26
1330	1st floor plumbing: install fixture	01-30-20	01-31-20	03-16-20	03-17-20	29
1340	1st floor paint/wall covering	02-06-20	02-20-20	02-17-20	03-02-20	7
1400	2nd floor suspended ceiling	02-12-20	02-24-20	02-12-20	02-24-20	0
1350	1st floor electrical finish	02-12-20	02-20-20	02-24-20	03-02-20	7
1390	2nd floor HVAC air handler	02-12-20	02-18-20	03-10-20	03-17-20	18
1410	2nd floor plumbing: install fixtur	02-12-20	02-13-20	03-16-20	03-17-20	21
1480	Plumbing Finish	02-14-20	02-17-20	03-18-20	03-19-20	21
1420	2nd floor paint/wall covering	02-18-20	03-04-20	02-18-20	03-04-20	0
1440	HVAC: install equipment	02-20-20	02-20-20	03-18-20	03-18-20	18
1360	1st floor flooring	02-21-20	03-09-20	03-03-20	03-19-20	7
1470	Site work	02-24-20	03-16-20	03-02-20	03-23-20	5
1430	2nd floor electrical finish	02-25-20	03-03-20	02-26-20	03-04-20	1
1490	HVAC thermostat & Test	03-04-20	03-04-20	03-19-20	03-19-20	10
1450	2nd floor flooring	03-05-20	03-19-20	03-05-20	03-19-20	0
1500	Electrical final	03-05-20	03-10-20	03-16-20	03-19-20	6
1510	Building cleanup	03-20-20	03-23-20	03-20-20	03-23-20	0
1520	Final check/CO	03-24-20	03-24-20	03-24-20	03-24-20	0

Assignment 4.4.D



Assignment 4.4.E

Resource ID Name		
Activity ID	Activity Name	Budgeted Units / Tin
General Contractor		
Laborer		
1010	Mobilization	3/d
1020	Clear & Grub	4/d
1030	Excavation	3/d
1040	Foundation	3/d
1050	Fill, Compact, and treat soil	2/d
1080	1st floor columns	2/d
1070	SOG	2/d
1510	Building cleanup	3/d
1520	Final check/CO	1/d
1110	2nd floor suspended slab	2/d
1160	2nd floor columns	2/d
1085	FRP vault walls	2/d
Forman		
1010	Mobilization	1/d
1020	Clear & Grub	1/d
1030	Excavation	1/d
1040	Foundation	1/d
1050	Fill, Compact, and treat soil	1/d
1080	1st floor columns	1/d
1070	SOG	1/d
1510	Building cleanup	1/d
1520	Final check/CO	1/d
1110	2nd floor suspended slab	1/d
1160	2nd floor columns	1/d
1085	FRP vault walls	1/d
Carpenter		
1040	Foundation	2/d
1080	1st floor columns	1/d
1070	SOG	1/d
1110	2nd floor suspended slab	2/d
1160	2nd floor columns	1/d
1085	FRP vault walls	1/d
Excavator		
1010	Mobilization	1/d
1020	Clear & Grub	2/d
1030	Excavation	1/d
1040	Foundation	1/d
1050	Fill, Compact, and treat soil	1/d

Assignment 4.4.F

Responsibility Activity ID	Activity Name	Budgeted Tot: Cost
GC General Contractor		
1000	NTP	\$0.00
1010	Mobilization	\$2,000.00
1020	Clear & Grub	\$0.00
1030	Excavation	\$0.00
1040	Foundation	\$5,000.00
1050	Fill, Compact, and treat soil	\$1,000.00
1070	SOG	\$2,000.00
1080	1st floor columns	\$900.00
1085	FRP vault walls	\$800.00
1110	2nd floor suspended slab	\$3,000.00
1160	2nd floor columns	\$1,200.00
1250	Building dry-in	\$0.00
1510	Building cleanup	\$200.00
1520	Final check/CO	\$0.00
Subtotal		\$16,100.00
ACAL All Seasons AC & Heating		
1140	1st floor HVAC ductwork/rough-	\$7,000.00
1210	2nd floor HVAC ductwork/rough-in	\$7,000.00
1310	1st floor HVAC air handler	\$4,000.00
1390	2nd floor HVAC air handler	\$4,000.00
1440	HVAC: install equipment	\$22,000.00
1490	HVAC thermostat & Test	\$5,000.00
Subtotal		\$49,000.00
WALL Wall to Wall		
1300	1st floor drywall	\$7,000.00
1320	1st floor suspended ceiling	\$7,500.00
1340	1st floor paint/wall covering	\$5,700.00
1380	2nd floor drywall	\$7,000.00
1400	2nd floor suspended ceiling	\$7,500.00
1420	2nd floor paint/wall covering	\$5,400.00
1460	Stucco & paint to ext. walls	\$7,000.00
Subtotal		\$47,100.00
MART Master Art Landscape		
1470	Site work	\$30,000.00

Responsibility	Activity ID	Activity Name	Budgeted Total Cost
Subtotal			\$30,000.00
MASE Mase & Company			
	1090	1st floor external CMU walls	\$9,200.00
	1100	1st floor internal CMU walls	\$7,800.00
	1170	2nd floor external CMU walls	\$11,500.00
	1180	2nd floor internal CMU walls	\$8,500.00
Subtotal			\$37,000.00
ROSS Ross Carpentry & Framing			
	1190	Roof trusses	\$10,000.00
	1230	Roof Sheating	\$3,500.00
	1260	Soffit & fascia	\$2,500.00
	1270	Roof Insulation	\$4,000.00
	1280	Internal partition framing	\$4,500.00
Subtotal			\$24,500.00
PLMX Plumbing Experts			
	1060	1st floor plumbing rough-in	\$2,500.00
	1120	2nd floor plumbing rough-in	\$2,500.00
	1330	1st floor plumbing: install fixture	\$7,500.00
	1410	2nd floor plumbing: install fixture	\$7,500.00
	1480	Plumbing Finish	\$4,500.00
Subtotal			\$24,500.00
RABT Rabbit-the-Footer			
	1240	Roof felt	\$400.00
	1265	Roof Shingles	\$8,000.00
Subtotal			\$8,400.00
TACO Tile and Carpet Co., Inc			
	1360	1st floor flooring	\$11,000.00
	1450	2nd floor flooring	\$8,500.00
Subtotal			\$19,500.00
WINT Windows & Doors NT			
	1087	Vault door	\$3,000.00
	1150	1st floor door & window frames	\$3,500.00

Responsibility		
Activity ID	Activity Name	Budgeted Total Cost
1220	2nd floor door & window frames	\$2,600.00
1290	1st floor: hang doors & windows	\$5,200.00
1370	2nd floor: hang doors & window	\$4,200.00
Subtotal		\$18,500.00
ZAPP Zapp Electric Co.		
1130	1st floor electrical rough-in	\$6,000.00
1200	2nd floor electrical rough-in	\$6,000.00
1350	1st floor electrical finish	\$15,000.00
1430	2nd floor electrical finish	\$17,000.00
1500	Electrical final	\$9,500.00
Subtotal		\$53,500.00

Assignment 5

Resource Levelling