Name: [redacted]
Class: CMCE2421, CMIII
Date: 10-1-2020
Project: Grant Chart Schedule
Lab 01

Fl.	#	Activity	Dur.	Timeline (in days)																			
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Cellar	1	Install Masonry (MA-1)	1																				
	2	Install Waterproofing (WP-1)	1																				
	3	Install 1/2" protection board or drainage sheet	1																				
	4	Install 1-1/2" R7.5 Continous Insulation Type-1 (I-1)	1																				
	5	Install 1" min. compressible joint filler	1																				
1st Floor	6	Install 2 layers of 5/8" mold resistance GWB	1																				
	7	Install vapor barrier	1																				
	8	Install 2 layers of 5/8" fiberglass mat mold resistant gypsum sheathing	1																				
	9	Install 6" R24 Insulation Type-2 (I-2)	1																				
	10	Install 2 layers of 5/8" mold resistance GWB and vapor barrier	1																				
	11	Install 2 layers of 5/8" fiberglass mat mold resistant gypsum sheathing	1																				
	12	Install fluid applied weather barrier	1																				
	13	Provide transition membrane at substrate transitions	1																				
	14	Transition membrane: verify compatibility with foundation Waterproofing	1																				
	15	Lap Waterproofing and fluid applied weather barrier 24" min. to achieve continous air barrier	1																				
	16	Install continuous Stainless Steel Flashing (F-1)	1																				
	17	Install 2" R10 continuous Insulation Type-1 (I-1)	1																				
	18	Install SS weep screed	1																				
	19	Install Grade D building Paper	1																				
	20	Install 1" stucco, metal lathe, drainange matrix	1																				

Name: [redacted]
Class: CMCE2421, CMIII
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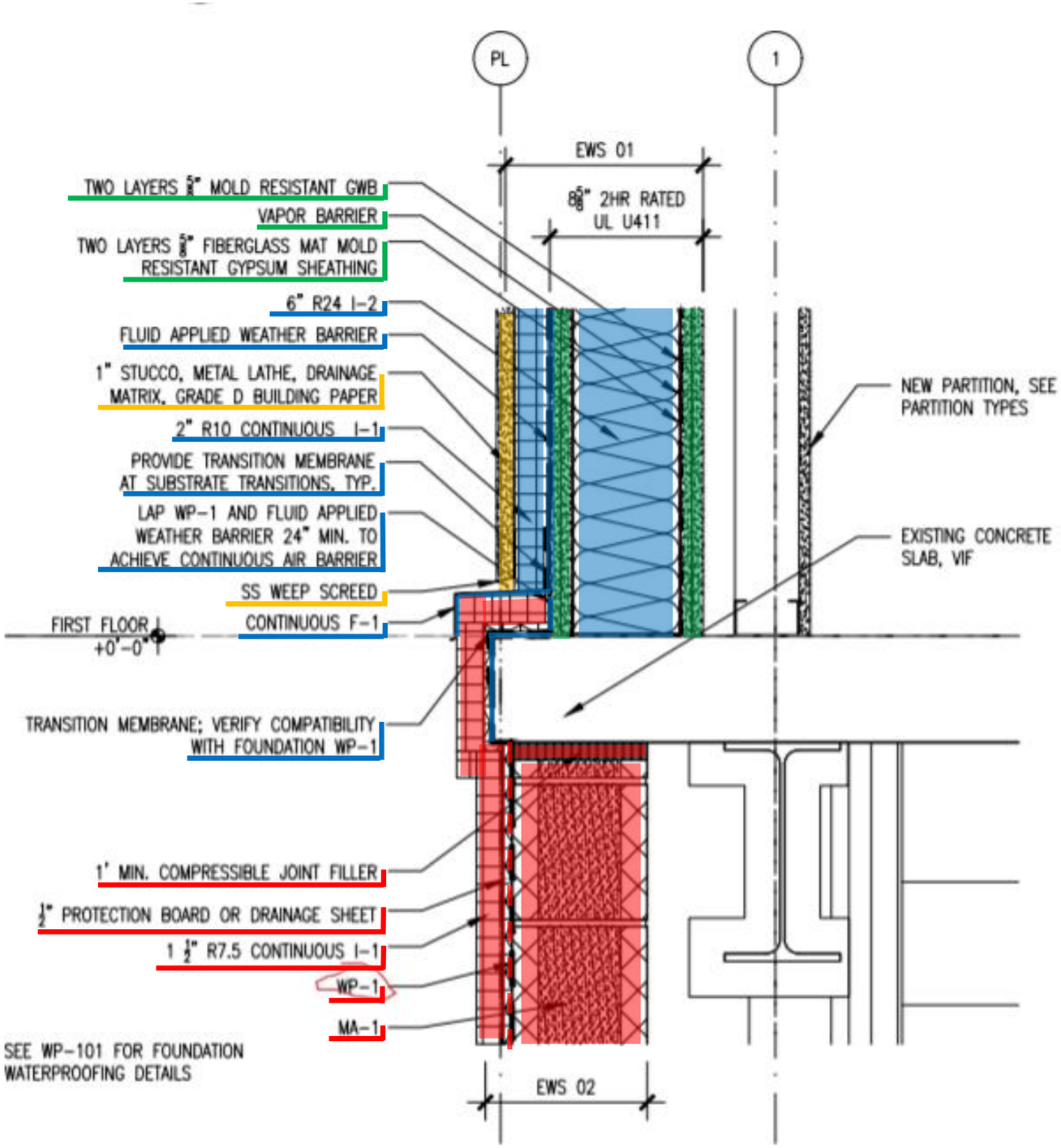
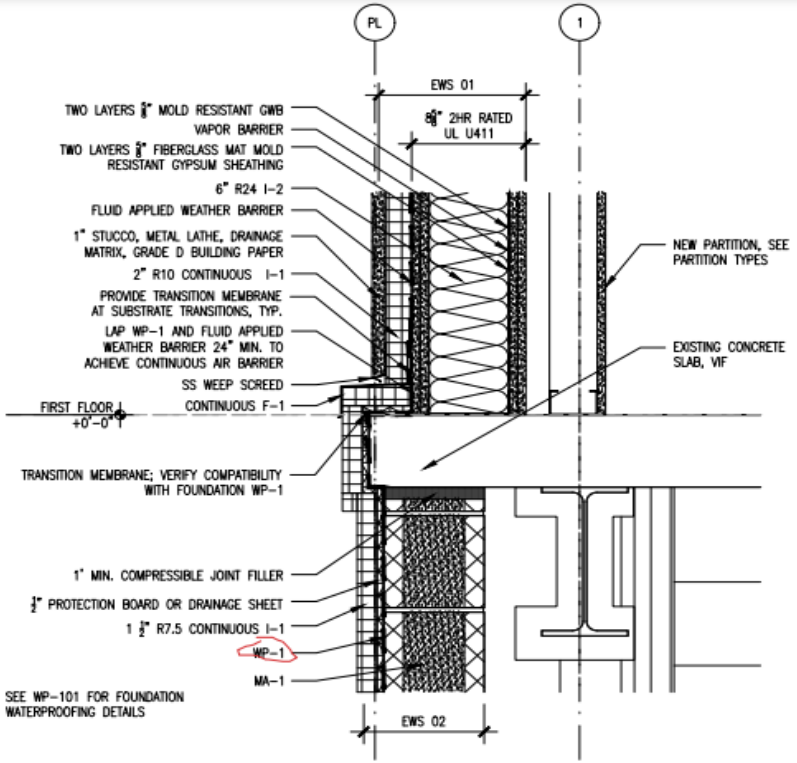
Lab 01



2 / A-401 SECTION DETAIL AT GL C.8 - TYP.
SCALE: 1 1/2" = 1'-0" REF 2/A-301

	Activities	Dur (days)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	8 5/8" 2hr rated UL U411	1																
2	Two Layers 5/8"mold resistant gwb	1																
3	vapor barrier	1																
4	Two Layers 5/8"fiberglass mat mold resistant gwb	1																
5	1" min compressible joint filler	1																
6	Filled cmu	1																
7	Waterproofing 1	1																
8	6" R24 1-2	1																
9	Fluid applied weather barrier	1																
10	Provide transition membrane at substrate transitions	1																
11	Lap WP-1 & fluid app. weather barrier 24" min. to achieve cont. barrier	1																
12	Transition membrane; verify foundation compatibility with WP-1	1																
13	1/2" protection board or drainage sheet	1																
14	2" R10 continuous I-1	1																
15	1.5" R7.5 continuous I-1	1																
16	SS weep creed	1																
17	1" stucco metal lathe drainage matrix grade D building paper	1																
18	Continuous F-1	1																

[redacted]
10/2/2020
CMCE 2421
Schedule Wall Detail (Lab 1)



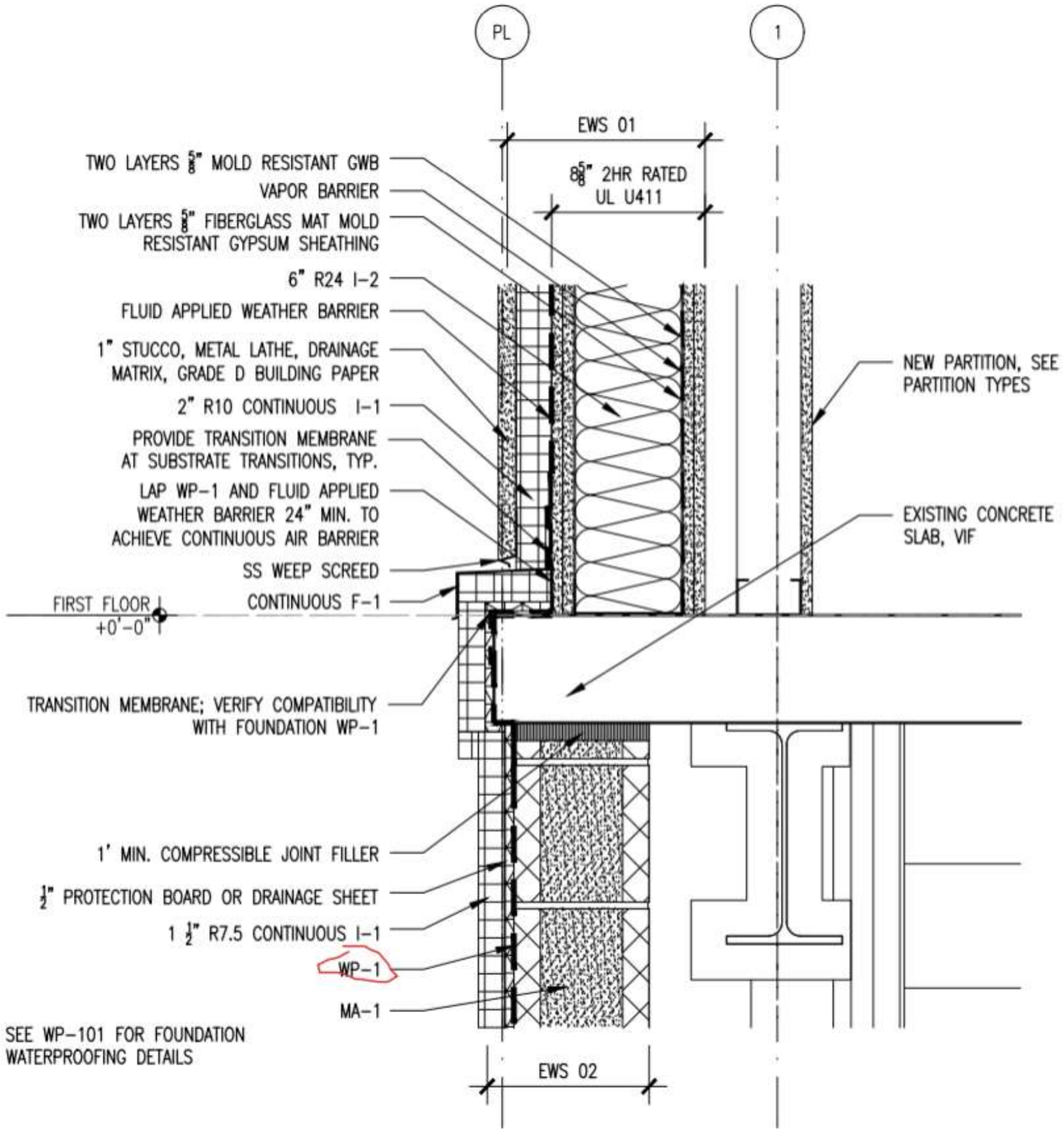
2 / A-401 SECTION DETAIL AT GL C.8 - TYP.

SCALE: 1 1/2" = 1'-0" REF 2/A-301

[redacted] CMCE 2421 Prof.Sowder LAB 01

Schedule #	Activites	Duration	Timeline 1	2	3	4	5
1	Masonry 1" Finshed CMU	2					
2	Waterproofing 1' memebrance	1					
3	1 1/2 R 7.5 Continouis	4					
4	1/2" Drainage sheet	1					
5	1' Min Compreesible Joint Filter	1					
6	Existing Concrete Slabs	4					
7	Transistion Membrane ,verify com w.foundation	2					
8	Continous Flashing	3					
9	SS Weep Screed	5					
10	Lap WP...1 and fluid applied wearther barreir 24" mi	2					
11	Provide a transistion memberane at substrate trans.	1					
12	2" R10 contuinous	3					
13	1" Stucco Metal Lathe Drainage matrix Grade bulding paper	2					
14	Fluid applied water barrier	5					
15	6" R24	2					
16	Two layer 5/8" fiberglass mat mold resistant sheating	3					
17	Vapor Barrier	1					
18	Two layer 5/8" Mold Resistant GWB	4					

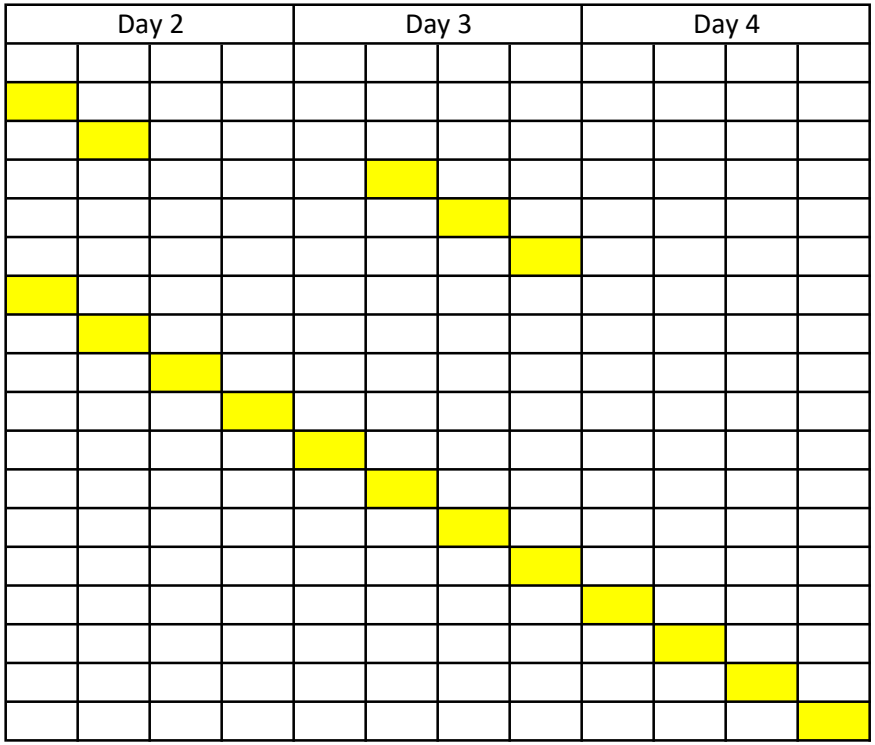
		ACTIVITIES	DURATION (DAYS)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	CELLAR	Construction of the load bearing wall, Filled CMU (MA-1)	3																														
2		Install 1' Compressible joint filler between the MA-1 and the slab	1																														
3		Pouring of the concrete slab	2																														
4		Install the waterproofing barrier WP-1	1																														
5		Install 1/2" Protection board/ Drainage sheet	1																														
6		Install 1 1/2" R 7.5 Continuous I-1 / Rigid insulation at the cellar part	2																														
7		Install the transition membrane between the two floors/ Should be Compatable together	2																														
8	FIRST/FLOOR	Construction of the new partition wall	3																														
9		Add first layer 5/8" mold resistant GWB	1																														
10		Add second layer 5/8" mold resistant GWB	1																														
11		Add Vapor Barrier between GWB and fiberglass mat mold	1																														
12		Add first layer 5/8" fiberglass gypsum sheathing	1																														
13		Add second layer 5/8" fiberglass gypsum sheathing	1																														
14		Add 6" R24 I-2/ Rigid insulation, first floor	1																														
15		Provide transition membrane at substrate transitions, TYP. First floor	2																														
16		Install the lap WP-1 and Fluid Applied Weather Barrier 24" to achive continuous air barrier for the first floor	2																														
17		Install the Flashing	1																														
18		Add 2" R10 Continuous I-1 / Rigid barrier, first floor	2																														
19		Apply 1" stucco, metal lathe, drainage matrix	1																														
20		Install the SS Weep Screed (First Floor)	1																														

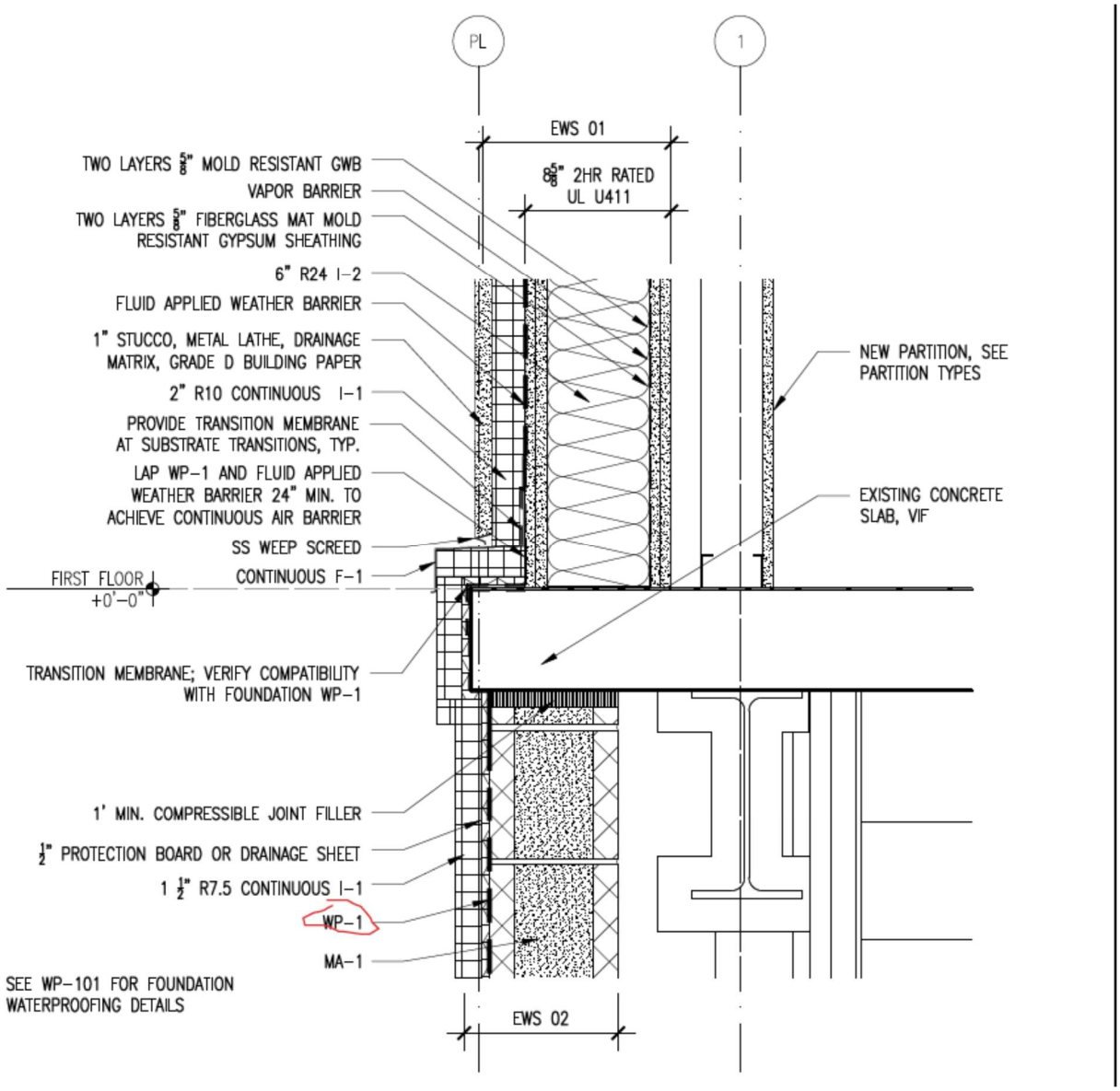

PL
1
EWS 01
8 5/8" 2HR RATED
UL U411
TWO LAYERS 5/8" MOLD RESISTANT GWB
VAPOR BARRIER
TWO LAYERS 5/8" FIBERGLASS MAT MOLD RESISTANT GYPSUM SHEATHING
6" R24 I-2
FLUID APPLIED WEATHER BARRIER
1" STUCCO, METAL LATHE, DRAINAGE MATRIX, GRADE D BUILDING PAPER
2" R10 CONTINUOUS I-1
PROVIDE TRANSITION MEMBRANE AT SUBSTRATE TRANSITIONS, TYP.
LAP WP-1 AND FLUID APPLIED WEATHER BARRIER 24" MIN. TO ACHIEVE CONTINUOUS AIR BARRIER
SS WEEP SCREED
CONTINUOUS F-1
FIRST FLOOR
+0'-0"
NEW PARTITION, SEE PARTITION TYPES
EXISTING CONCRETE SLAB, VIF
TRANSITION MEMBRANE; VERIFY COMPATIBILITY WITH FOUNDATION WP-1
1' MIN. COMPRESSIBLE JOINT FILLER
1/2" PROTECTION BOARD OR DRAINAGE SHEET
1 1/2" R7.5 CONTINUOUS I-1
WP-1
MA-1
SEE WP-101 FOR FOUNDATION WATERPROOFING DETAILS
EWS 02

CMCE 2421 Professor Sowder [redacted] 9/28/2020

Lab 01 - Wall Detail

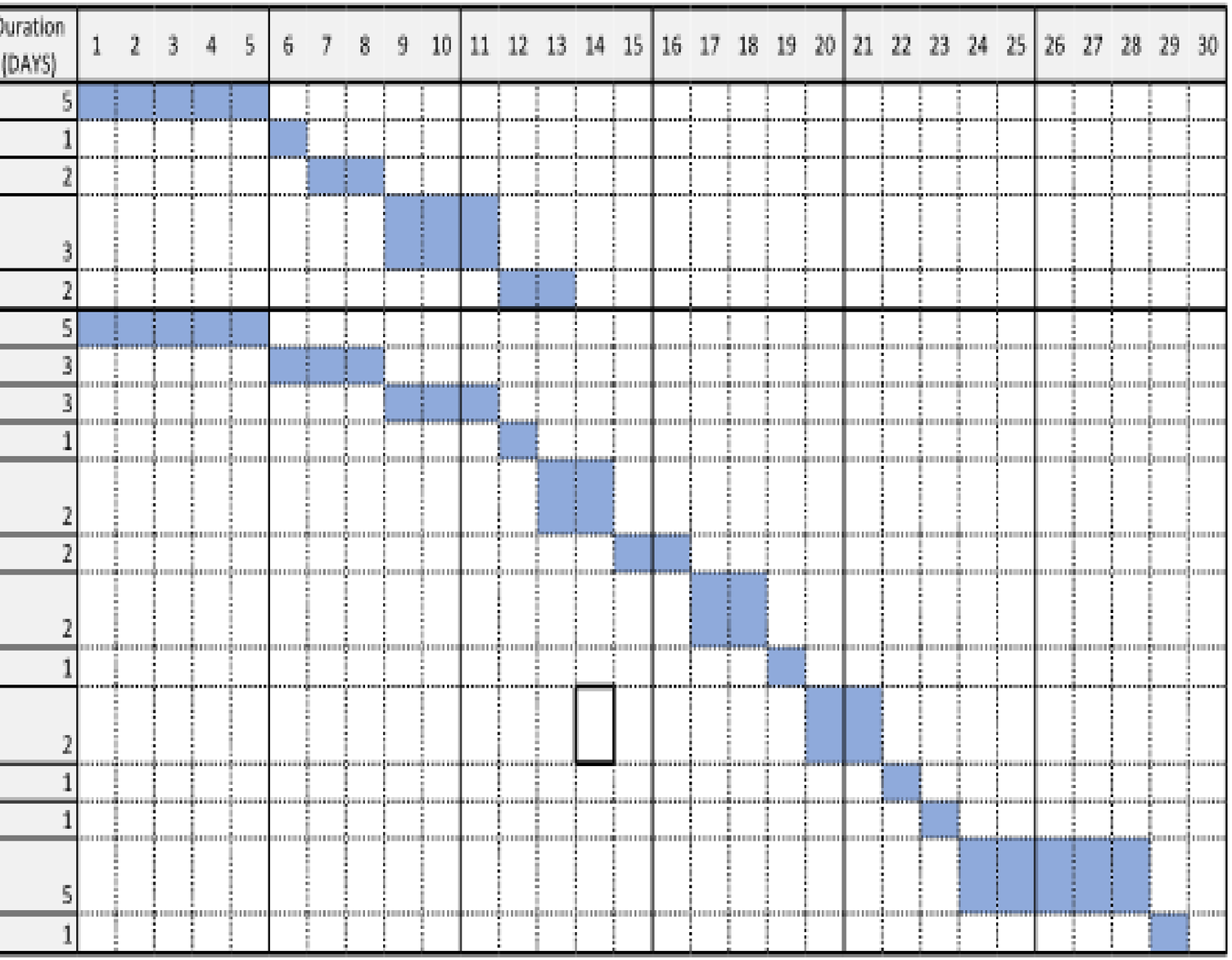
Location		Activity	Duration	Day 1			
All	1	Remove the existing structure on the concrete beam, stop when seeing the concrete	1				
Cellar Floor	2	Install joint filler on the bottom of the beam	0.25				
	3	Put up masonary unit	0.25				
	4	Install waterproofing	0.25				
	5	Install drainage sheet	0.25				
	6	Install 1.5" R7.5	0.25				
First Floor	7	Install two layers mold resistant GWB	0.25				
	8	Install vapor barrier	0.25				
	9	Install two layers fiberglass mat mold resistant gypsum sheathing	0.25				
	10	Install 6" R24 I-2	0.25				
	11	Applied transition membrane on the surface of the concrete beam	0.25				
	12	Install fluid applied weather barrier	0.25				
All	13	Lap waterproofing and weather barrier	0.25				
First Floor	14	Verify compatibiuty with transition membrane and waterproofing	0.25				
	15	Instill F-1	0.25				
	16	Install 2" R10	0.25				
	17	Install stucco, metal lathe, drainage matrix and building paper	0.25				
	18	Install SS weep screen	0.25				


Day 2
Day 3
Day 4



Wall Detail Design

TASK		Activities	Duration (DAYS)
FOUNDATION WALL	1	MA-1 (Masonry 1)	5
	2	WP-1 (Water Proofing 1)	1
	3	1" Compressible Joint Filler	2
	4	1/2" Protection Board or Drainage Sheet	3
	5	1-1/2" R7.5 Cintunous	2
UPPER LEVEL WALL	6	Metal Stud Framing	5
	7	Vapor Barrier	3
	8	2-Layers 5/8" Mold GWB	3
	9	6" R24 - Insulation	1
	10	2-Layers 5/8" Fiberglass Mat Gypsum Sheathing	2
	11	Fluid Applied Weather Barrier	2
	12	LAP WP-1 And Flluid Applied Weahter Barrier 24" Min	2
	13	Continuous F-1 (Flashing)	1
	14	Provide Transition Membrane at Substrate	2
	15	2" R10 Continuous	1
	16	SS Weep Screed	1
	17	1" Stucco, Metal Lathe, Drainage, Matrix, Grade D Building Paper	5
	18	Transition Membrane	1



CMCE New York City College of Technology
Construction Management & Civil Engineering Technology

CMCE 2421 - CONSTRUCTION MANAGMENT III

PROF: SOWDER

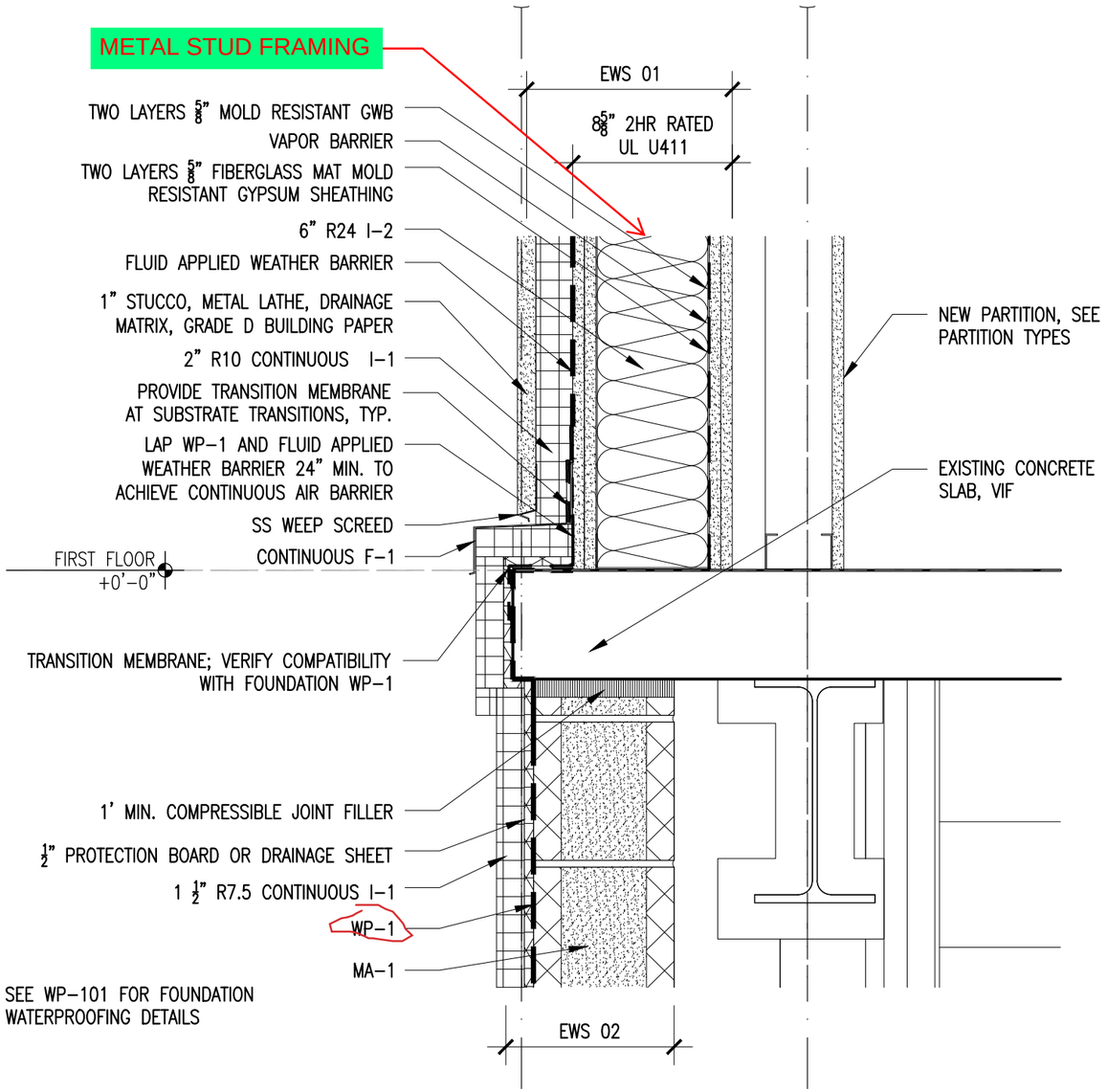
FALL: 2020

Lab #01: Gannt Chart Schedule

BY:

DATE: 9/29/2020

SHEET A-01



2 / A-401 SECTION DETAIL AT GL C.8 - TYP.

SCALE: 1 1/2" = 1'-0" REF 2/A-301

CMCE New York City College of Technology
Construction Management & Civil Engineering Technology

CMCE 2421 - CONSTRUCTION MANAGMENT III

PROF: SOWDER

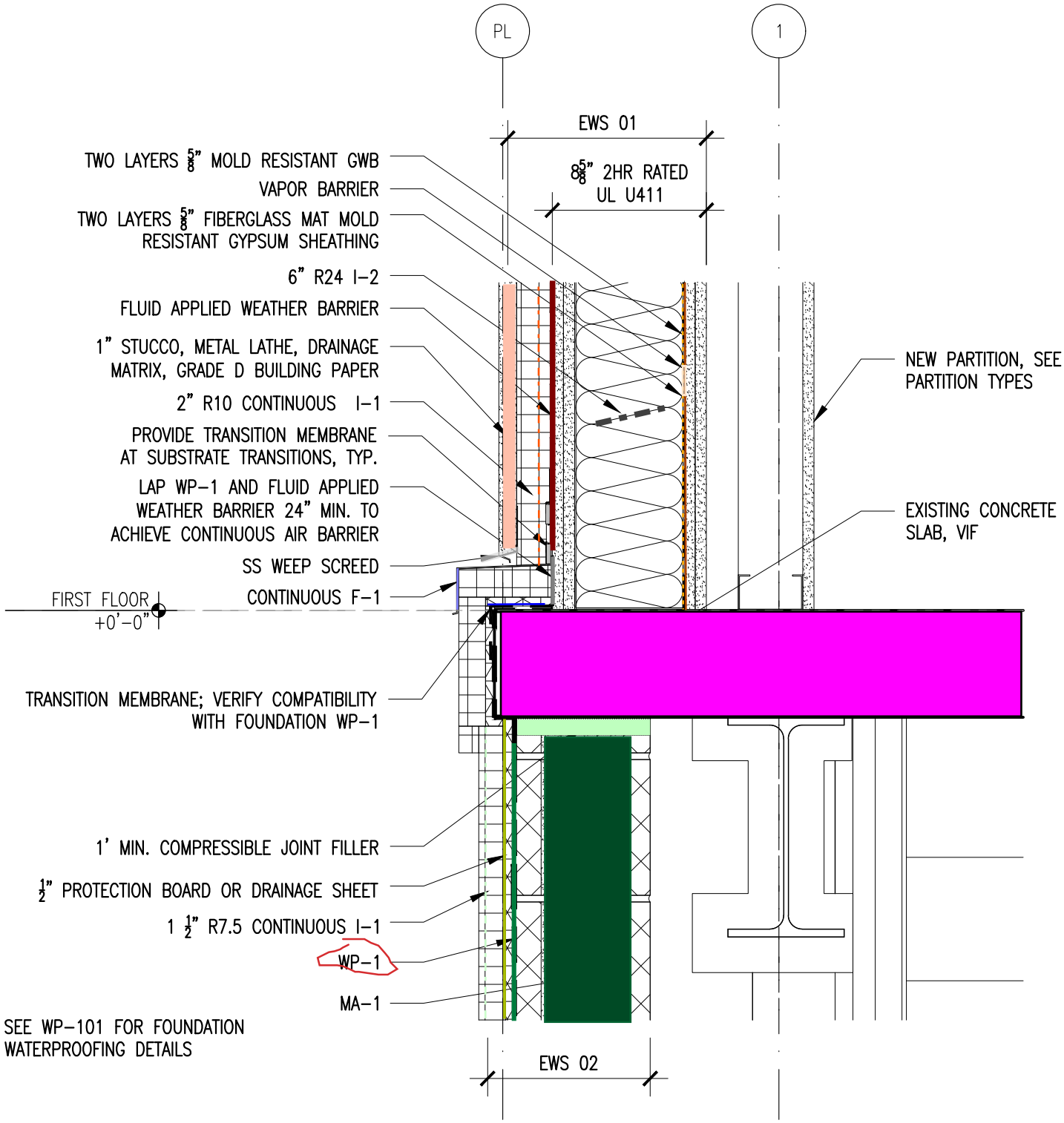
FALL: 2020

Lab #01: Gannt Chart Schedule

BY: [redacted]

DATE: 9/29/2020

SHEET A-02



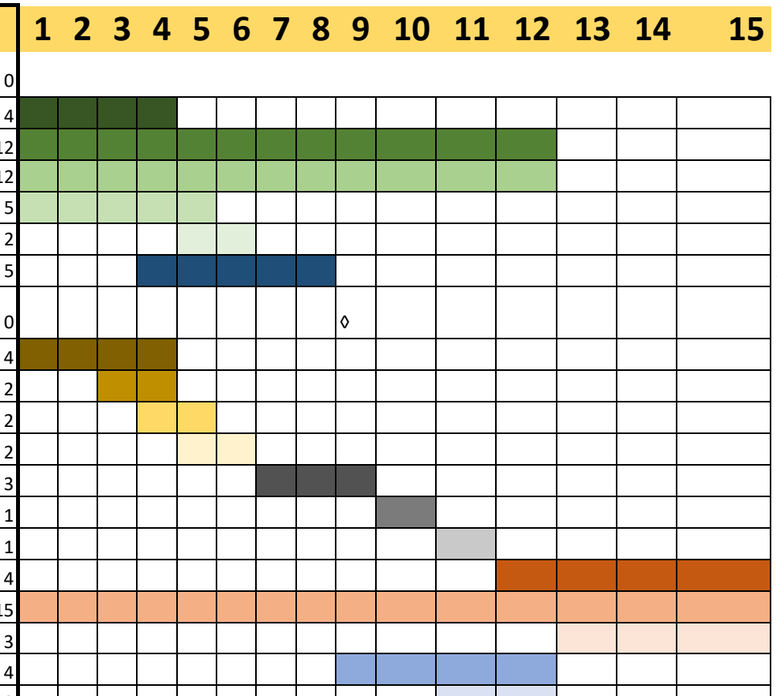
2 / A-401

SECTION DETAIL AT GL C.8 - TYP.

SCALE: 1 1/2" = 1'-0"

REF 2/A-301

	Activities	Durataion(Days)
	Cellar	0
1	MA-1	4
2	WP-1	12
3	1-1/2' R7.5 Continuous 1-1	12
4	1/2" protection board or drainage sheet	5
5	1' min compressible joint filler	2
6	Transition membrane: verfy compatibility with foundation WP-1	5
7	**First Floor**	0
8	New partiotion, see partion typ First Floor	4
9	Two layers 5/8" mold resistant GWB	2
10	Vapor Barrier	2
11	Two layers 5/8" fiberglass mat mold resistant gypsum sheating	2
12	6" R24 1-2	3
13	LAP WP-1 and fluid applied weather barrier 24' Min to achieve continuous air barrier	1
14	Provide transition membrane at substrate transitions, TYP	1
15	Fluid applied weather barrier	4
16	2" R10 Continuous 1-1	15
17	1" stucco, metal lathem drainage matrix, grade D building paper	3
18	Continuous F-1	4
19	SS weep Screed	2



[redacted]
9/24/2020
CMCE 2421
LAB 01 401.00- 2A

Numbers	Activites	Duration	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	22	23	24	25	26	27	28	29	30
1	Install new partition	3																													
2	Add two layers of 5/8" mold resistant GWB	2																													
3	Add vapor barrier	2																													
4	Add two layers of 5/8" fiberglass mat mold reistant gypsum sheathing	2																													
5	Install 6" R24 insulation	2																													
6	Ensure it is 8 5/8" in order for it to be an 2HR section	1																													
7	Masonry first level	2																													
8	Masonry second level	2																													
9	Install 1' min compressble joint filler under concrete slab	1																													
10	Add weatherproofing and weather barrier fluid to air barrier	2																													
11	Provide transition membrane at substrate transitions	2																													
12	Apply fluid weather barrier	1																													
13	Install 2" R10 insulation	1																													
14	Install 1" Stucco, metal lathe, drainage matrix,grade D building paper	4																													
15	Install 1 1/2" R7.5 insulation	1																													
16	Verify compatibilty between foundation and transit membrane	1																													
17	Install flashing 1	3																													
18	Install weep screed flashing	3																													

Numbers	Relationships
1	Activity 1 does not have any activity dependencies
2	Activity 2,3, & 4 start after activity 1 is finished
3	Activity 5 can start after activities 2,3, &4 are finsihed
4	Activity 6 can start after activity 5 is finished
5	Activity 7 can start after activity 6 is finished
6	Activity 8 can start after activity 7 is finished
7	Activity 9 can start after activity 8 is finished
8	Activity 10,11, & 12 can start after activity 9 is finished
9	Activity 13 can start after activities 10 & 11 are finished
10	Activity 14 can start after activity 13 is finished
12	Activity 15 & 16 can start after activity 14 is finished
13	Activity 17 can start after activities 15 & 16 are finished
14	Activity 18 can start after activity 17 is finished

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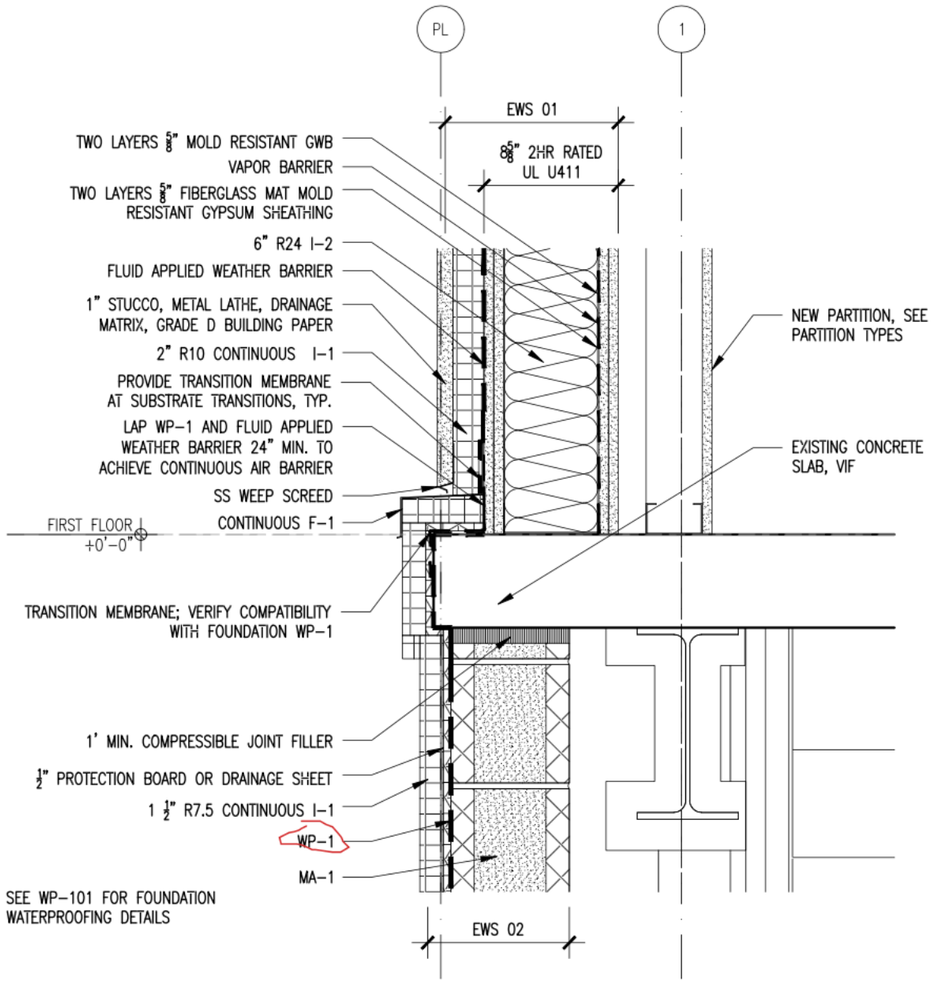
NEW YORK CITY COLLEGE OF TECHNOLOGY CUNY

[redacted]
CMCE2421 CM III
10/1/20
Lab#1



2 / A-401 **SECTION DETAIL AT GL C.8 - TYP.**

SCALE: 1 1/2" = 1'-0" REF 2/A-301