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Michigan Stadium Expansion & Renovation • 101 East Keech Avenue • Ann Arbor, MI 48104 • p (734) 769-7376 • f (734) 769-0520

March 26, 2008

Mr. Bryan Valachek  
Sr. Project Manager  
University of Michigan – Plant Extension  
326 E. Hoover Street  
Ann Arbor, MI 48109

**SUBJECT: University of Michigan Stadium Expansion & Renovation  
Narrative of Noise Generating Activities**

Dear Bryan,

In a further effort to define and respond to a number of concerns raised by city officials, as expressed in our meeting on March 20, 2008, I have prepared a narrative of noise generating activities that will occur at this site between the hours of 6:45 am and 11:30 pm. As you know, our work hours were previously adjusted at the request of city officials and the University to reflect a number of concerns. To re-cap, the revised hours delayed the opening of the site gates till 6:45 am allowing tradesman to begin to work at 7:00 am and extended the work hours till 11:00 pm. At this time the equipment would be shut down, repositioned, greased and maintained till 11:30 pm per my letter dated February 28, 2008. The attached narrative shows we anticipate that the noise levels will be at their highest beginning August of 2008 and will gradually decrease by August of 2009, once the building has been enclosed. There will be instances where the required construction means and methods will periodically generate very high noise levels. Examples of this include, cutting steel deck, welding studs, tightening the bolted connections on the steel superstructure, welding using gas powered welders, concrete saw cutting machines, installing metal studs, back-up alarms, generators for tools and lights and pneumatic demolition equipment (jack-hammers) to name some of the noisiest construction procedures. These activities are standard to the construction industry and are commonly heard around Ann Arbor on other large projects. Occasionally, there are construction activities that will have to continue beyond the agreed time frame because of the nature of the work. For example, waiting for concrete to set to the point where it can be finished and saw cut or completing a bolt tightening sequence for structural steel.

Some of the concerns expressed assume a fully deployed workforce on site from 6:45 am to 11:30 pm, 7 days a week, for a period of two and a half years. However, as you are aware, many activities under contract have selective overtime already in them to meet the compressed schedule. To date, it has not been uncommon for as many as 20% of the on-site workforce to work beyond 8:00 pm in order to meet the current construction schedule, due to field conditions, weather delays, equipment failures, design errors and refinements. While we anticipate an average of 175 to 225 tradesmen working on a daily basis, we believe the number of workers will be reduced by as much as 50% between the hours of 8:00 pm and 11:30 pm. This by itself could have an effect on the level of noise associated with those construction activities but will not eliminate it.

In addition, it is important to have a general understanding of construction operations that have been occurring on the weekends to date. Since commencing this project on November 19, 2007 we have worked every Saturday, 18 total. The numbers of workers have ranged from as few as three (3) to as many as sixty (60), with an average of approximately forty (40). We have also worked eight (8) of eighteen (18) Sundays and had as few as five (5) workers, as many as thirty (30), with an average of approximately fifteen (15). The hours of operation on Saturday and Sunday have usually been 7:00 am and 5:00 pm. We anticipate working a similar percentage of Saturdays and Sundays throughout the duration of the project.

You'll recall in my February 28, 2008 letter that we referenced our original view that closure of two lanes in Main Street were necessary to complete the West Sideline structure, but we again further refined our detailed review and modified the plans to utilize only one lane of Main Street. I do wish to re-iterate the risks associated with injury or loss of property or human life that remain of highest concern in the request to close this lane for the 14 month period identified from May 2008 to July 2009.

The design requires that we work right adjacent to the City property line on Main Street. The Stadium location contributes to the perception of noisy operations; the noise generated travels very quickly to our neighbor's adjacent homes and businesses. We have always striven to schedule and sequence the very complex construction operations to maximize the amount of construction that can safely occur during normal hours of operation. We are not insensitive to the concerns recently expressed but we are committed to delivering the Stadium project on time. Consequently the extended hours are required to meet your schedule. Please see the attached detailed schedule dated March 25, 2008.

If you have any questions or would like to meet to review our comments in more detail, please do not hesitate to email me at [neal.morton@bartonmalow.com](mailto:neal.morton@bartonmalow.com) or call me at (734) 769-7376.

Sincerely,



Neal Morton  
Sr. Project Manager  
Barton Malow Company

CC Todd Ketola, Barton Malow Company  
Sean Hollister, Barton Malow Company

Attachments: Narrative of Noise Generating Activities dated March 26, 2008  
Schedule dated March 26, 2008

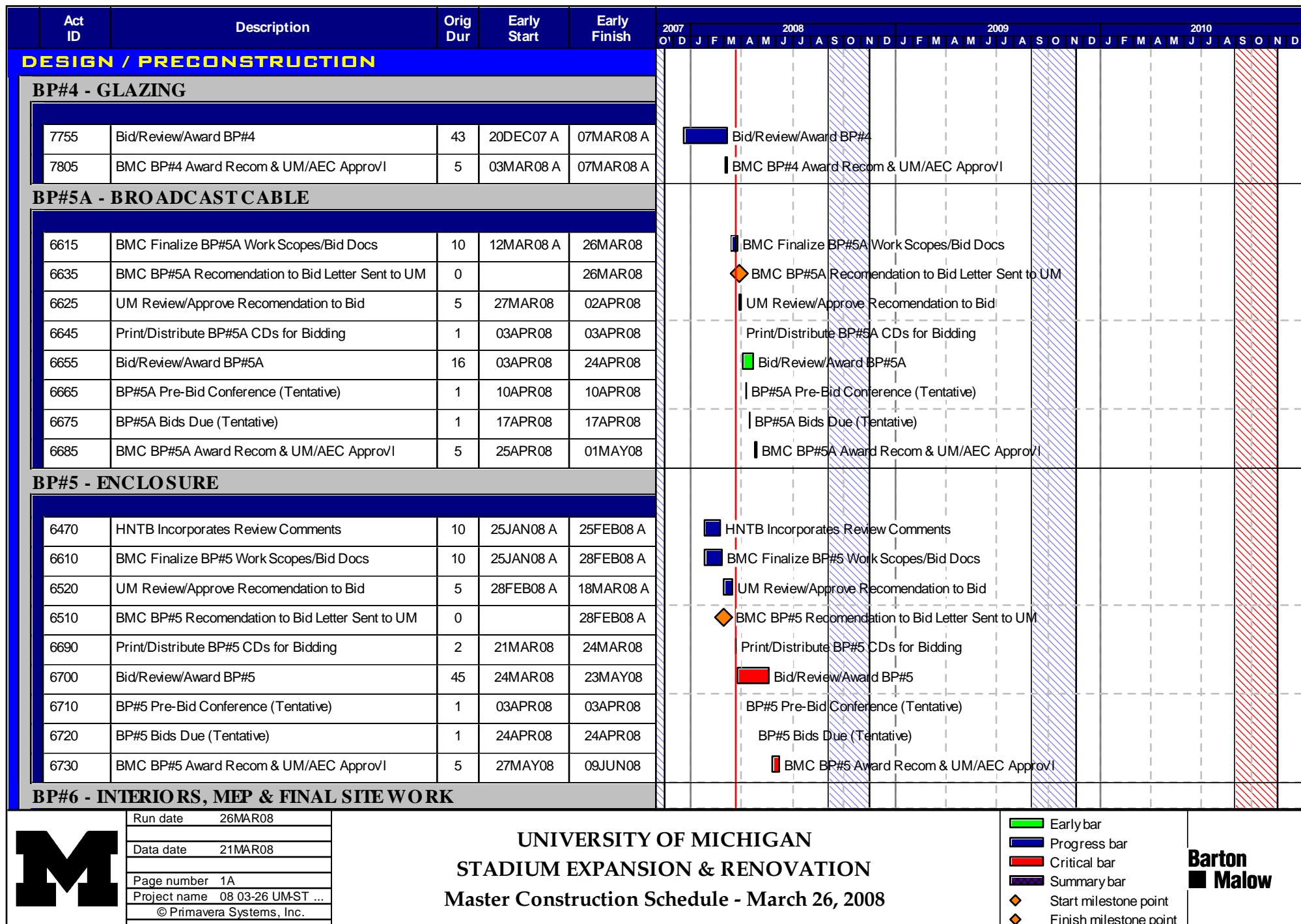
## Narrative of Noise Generating Activities

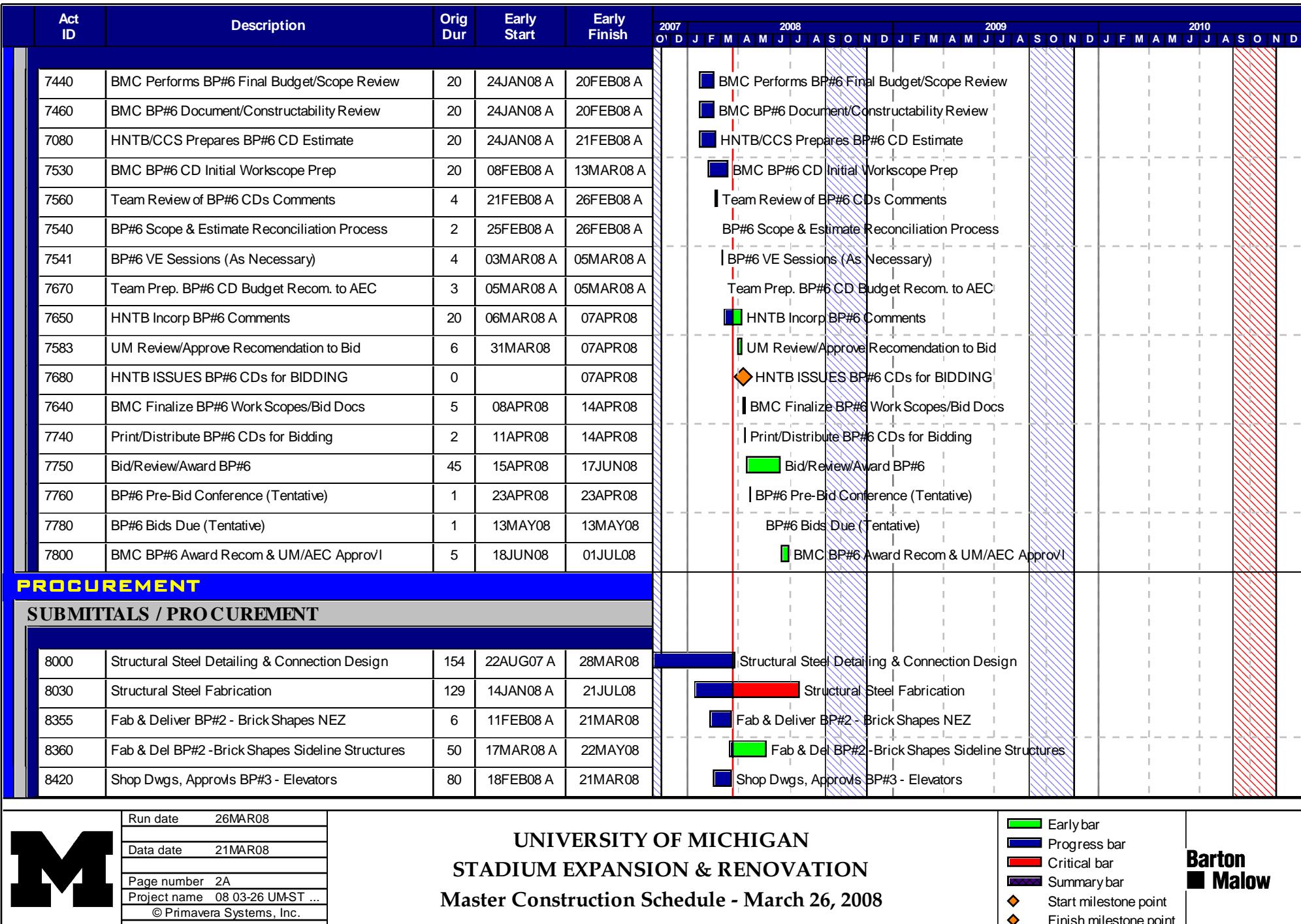
### March 26, 2008

Construction Activities	11/17/07 – 03/31/08	04/01/08 – 08/31/08	09/01/08 – 08/31/09	09/01/09 – 06/01/10
General Description of Scope of Work	Earthwork / Utilities / Foundations	Earthwork / Utilities / Foundations / North End Zone Building Construction / Structural Steel East and West	Exterior Enclosure / Masonry / Glazing	Interiors / Press Box Demolition / Restrooms and Stadium Infill
Selective Demolition	This activity is almost complete. Slightly more selective demolition will need to be completed to allow the structural steel to be installed as designed.	Minimal selective demolition required.	Renovation of existing spaces underneath the existing Stadium seating on East and West concourses.	Demolition of existing Press Box and Stadium seating on West to allow area to construct below grade restrooms.
Site Utilities	Almost all utilities have been relocated and reconnected.	Final connections and minor utility work.	Final connections and minor utility work.	N/A
Foundations	Almost all foundations have been completed on the West side, including the main site wall. The East side foundations, South of the tunnel are complete. The North End Zone Building Foundations are complete.	Foundations at the Northeast and Southeast corners will need to be completed. The East side foundations North of the tunnel are on the critical path and extended hours of operation will be required to meet the overall schedule. Foundations at the Northeast and Southeast corners will need to be completed.	Miscellaneous foundations will be completed.	N/A
Structural Steel	North End Zone and East	North End Zone will be finalized	Miscellaneous steel will be installed	N/A

/ Metal Decking and Welding	Side Structural Steel has started.	by the end of April. East and West Side structural steel will continue up until the end of August.	and welded.	
Precast Risers	Material is fabricated off-site.	Material will be erected along with structural steel on the East side only and on second sift.	N/A	N/A
Asphalt Paving	N/A	Paving will be installed over the entire concourse prior to the end of August.	Patch and repair of asphalt paving as required.	Final paving will be installed prior to the completion of the project.
Landscaping	N/A	Landscaping repair will be completed as required.	Landscaping repair will be completed as required.	Landscaping repair will be completed as required.
Elevated Concrete Flatwork	N/A	Concrete flatwork on the West side will be pumped from the Main Street lane closure to strengthen the structural steel frame as part of the construction process. Concrete flatwork on the East side will be pumped from the lower Crisler parking lot.	Concrete flatwork on the West side will be pumped from the Main Street lane closure to strengthen the structural steel frame as part of the construction process. Concrete flatwork on the East side will be pumped from the lower Crisler parking lot. This activity should be completed before the end of 2008.	N/A
Rough Carpentry	N/A	Installation of the metal studs and exterior sheathing required to enclose the building.	Installation of the metal studs and exterior sheathing required to enclose the building.	N/A
Masonry	North End Zone Buildings have been started.	North End Zone Buildings and site walls will be complete. East and West side masonry will start immediately following the Rough Carpentry.	East and West side masonry will be completed prior to the end of August 2008.	N/A
Spray-On Fireproofing	N/A	East and West sides both have spray-on fire proofing to be installed.	East and West sides both have spray-on fire proofing to be installed.	N/A
Membrane Roofing	N/A	N/A	Installed as soon as possible to limit snow and water into the building to protect interior finishes.	N/A

Metal Studs and Drywall	N/A	Metal studs will be installed on the West side as part of the interior construction.	Metal studs and drywall will be installed on the East and West sides as part of the interior construction.	Installation of drywall on the East side as part of the interior construction.
Interior Finishes (ceilings, paint, tile, carpet, etc.)	N/A	North End Zone Buildings will be completed.	Installation of interior finishes on both the East and West side.	Installation of interior finishes on both the East and West side.
Glazing – Street Side	N/A	N/A	West and East street side glazing will be installed following the masonry installation.	Remaining windows will be installed as construction allows.
Glazing – Field Side	N/A	N/A	West and East field side glazing will begin as soon as possible given its complexity.	N/A
Mechanical	N/A	Rough-in for mechanical will begin.	Majority of mechanical work will be completed.	Final mechanical connections will be completed.
Electrical	N/A	Rough-in for electrical will begin.	Majority of electrical work will be completed.	Final electrical connections will be completed.
General Relative Level of Noise	Medium	High	Medium	Low
Street / Sidewalk Closures	Keech Ave and Stadium, South side of Keech Ave sidewalk, East side of Main Street sidewalk	Keech Ave, one (1) West bound lane of Stadium, one (1) North bound lane of Main Street, South side of Keech Ave sidewalk, East side of Main Street sidewalk	Keech Ave, one (1) West bound lane of Stadium, one (1) North bound lane of Main Street, South side of Keech Ave sidewalk, East side of Main Street sidewalk	Keech Ave
Average Number of Workers / Day	125	175	225	150





Act ID	Description	Orig Dur	Early Start	Early Finish	Timeline Grid (2007-2010)																	
					2007			2008			2009			2010								
O	D	J	F	M	A	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O
8425	Fab & Del BP#3 - Elevators	110	24MAR08	26AUG08																		
8535	Shop Dwgs & Approvals for Street Side Glazing	65	19MAR08 A	20JUN08																		
8515	Shop Dwgs & Approvals for Field Side Glazing	100	19MAR08 A	11AUG08																		
8555	Shop Dwgs/Approvals for BP#5A - Broadcast Cable	29	02MAY08	12JUN08																		
8505	Shop Dwgs, Approvals BP#5 Items	40	10JUN08	05AUG08																		
8565	Fab & Deliver BP#5A - Broadcast Cable Materials	29	13JUN08	24JUL08																		
8545	Fab & Deliver Street Side Glazing Materials	50	23JUN08	03SEP08																		
8510	Shop Dwgs, Approvals BP#6 Items	40	02JUL08	27AUG08																		
8525	Fab & Deliver Field Side Glazing Materials	80	18JUL08	17NOV08																		
8506	Fab & Deliver BP#5 Items	125	06AUG08	11FEB09																		
8520	Fab & Deliver BP#6 Items (16-26 wks)	130	28AUG08	09APR09																		

## CONSTRUCTION

### MILES TO NSES

#### GAME SCHEDULE

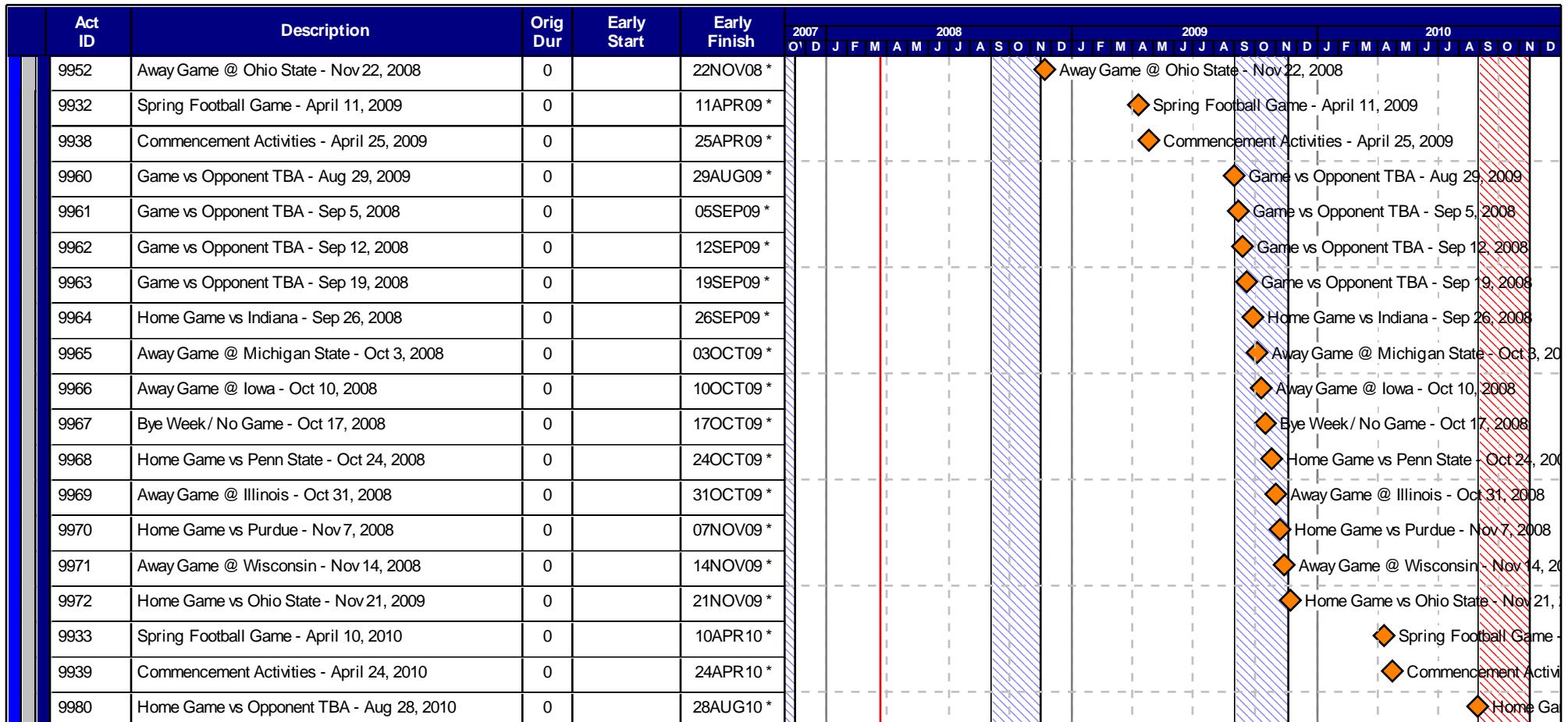
9940	Home Game vs Utah - Aug 30, 2008	0		30AUG08 *																		
9941	Home Game vs Miami (OH) - Sep 6, 2008	0		06SEP08 *																		
9942	Away Game @ Notre Dame - Sep 13, 2008	0		13SEP08 *																		
9943	Bye Week / No Game - Sep 20, 2008	0		20SEP08 *																		
9944	Home Game vs Wisconsin - Sep 27, 2008	0		27SEP08 *																		
9945	Home Game vs Illinois - Oct 4, 2008	0		04OCT08 *																		
9946	Home Game vs Toledo - Oct 11, 2008	0		11OCT08 *																		
9947	Away Game @ Penn State - Oct 18, 2008	0		18OCT08 *																		
9948	Home Game vs Michigan State - Oct 25, 2008	0		25OCT08 *																		
9949	Away Game @ Purdue - Nov 1, 2008	0		01NOV08 *																		
9950	Away Game @ Minnesota - Nov 8, 2008	0		08NOV08 *																		
9951	Home Game vs Northwestern - Nov 15, 2008	0		15NOV08 *																		

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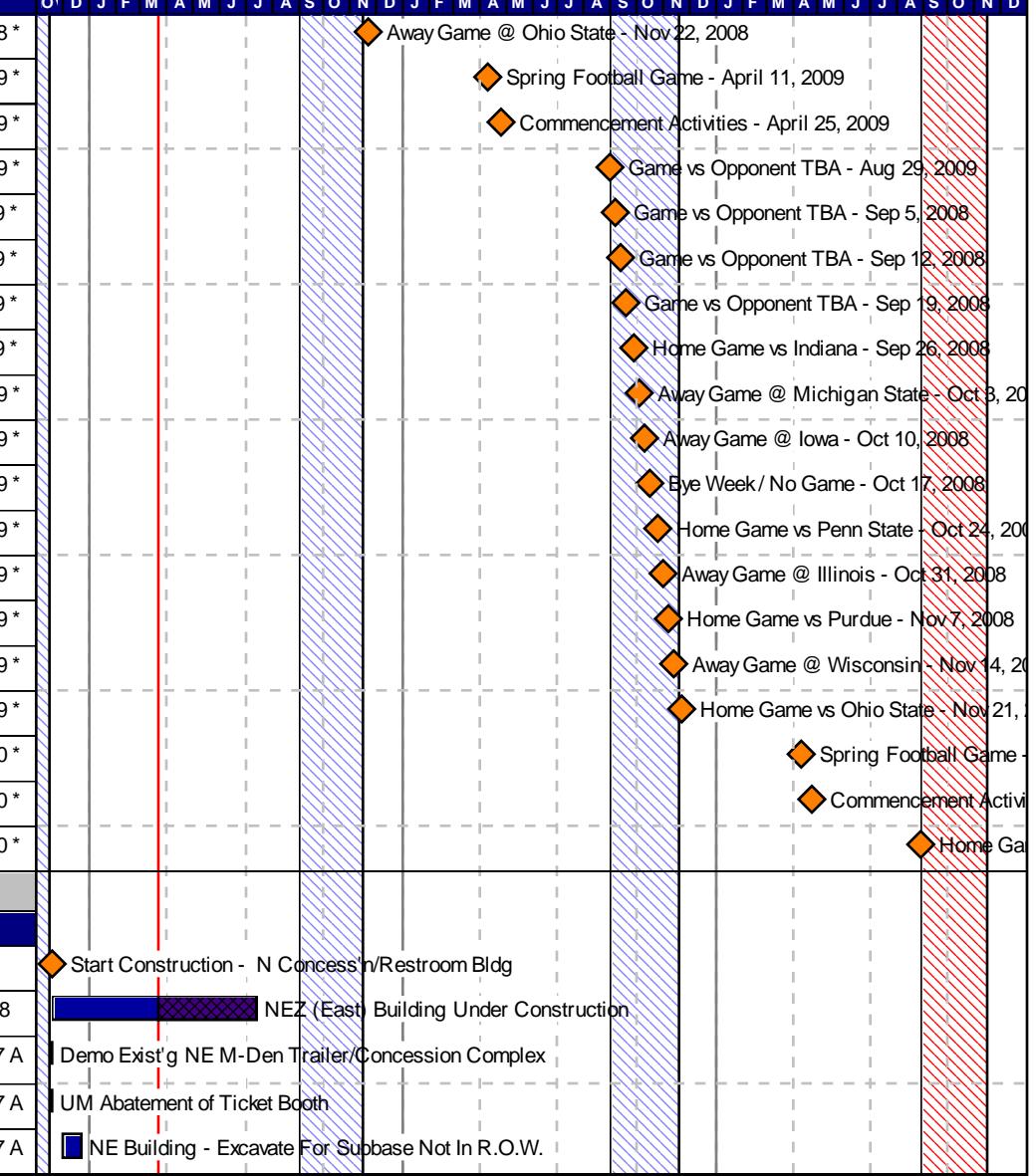
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## NEZ OUTBUILDINGS

### NORTHEAST

75100	Start Construction - N Concess'n/Restroom Bldg	0	19NOV07 A	
75095	NEZ (East) Building Under Construction	169 *	19NOV07 A	17JUL08
75110	Demo Exist'g NE M-Den Trailer/Concession Complex	12	19NOV07 A	21NOV07 A
75105	UM Abatement of Ticket Booth	5	20NOV07 A	21NOV07 A
75115	NE Building - Excavate For Subbase Not In R.O.W.	5	30NOV07 A	26DEC07 A

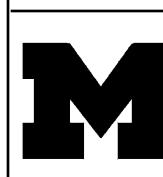
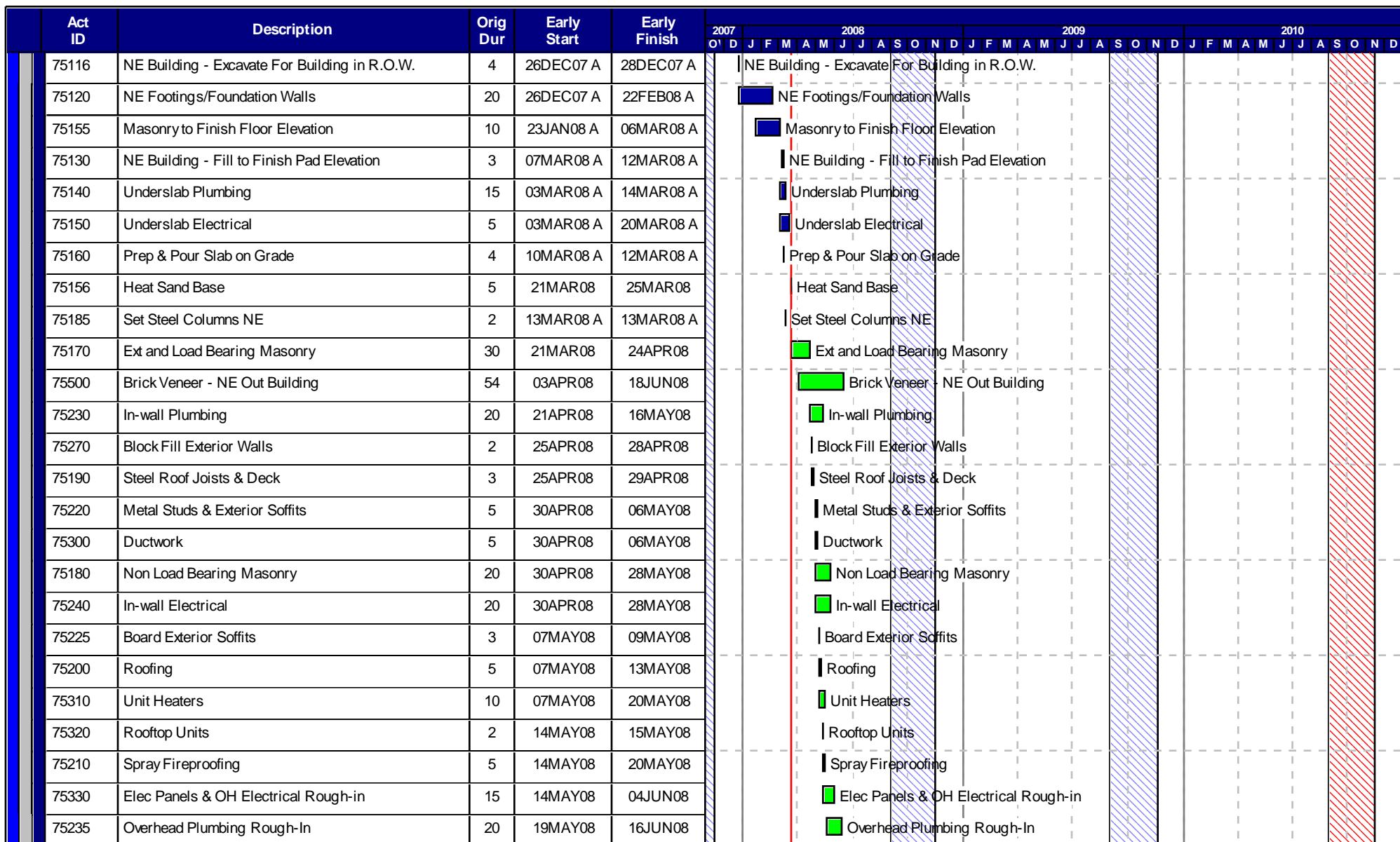


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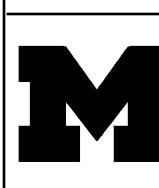
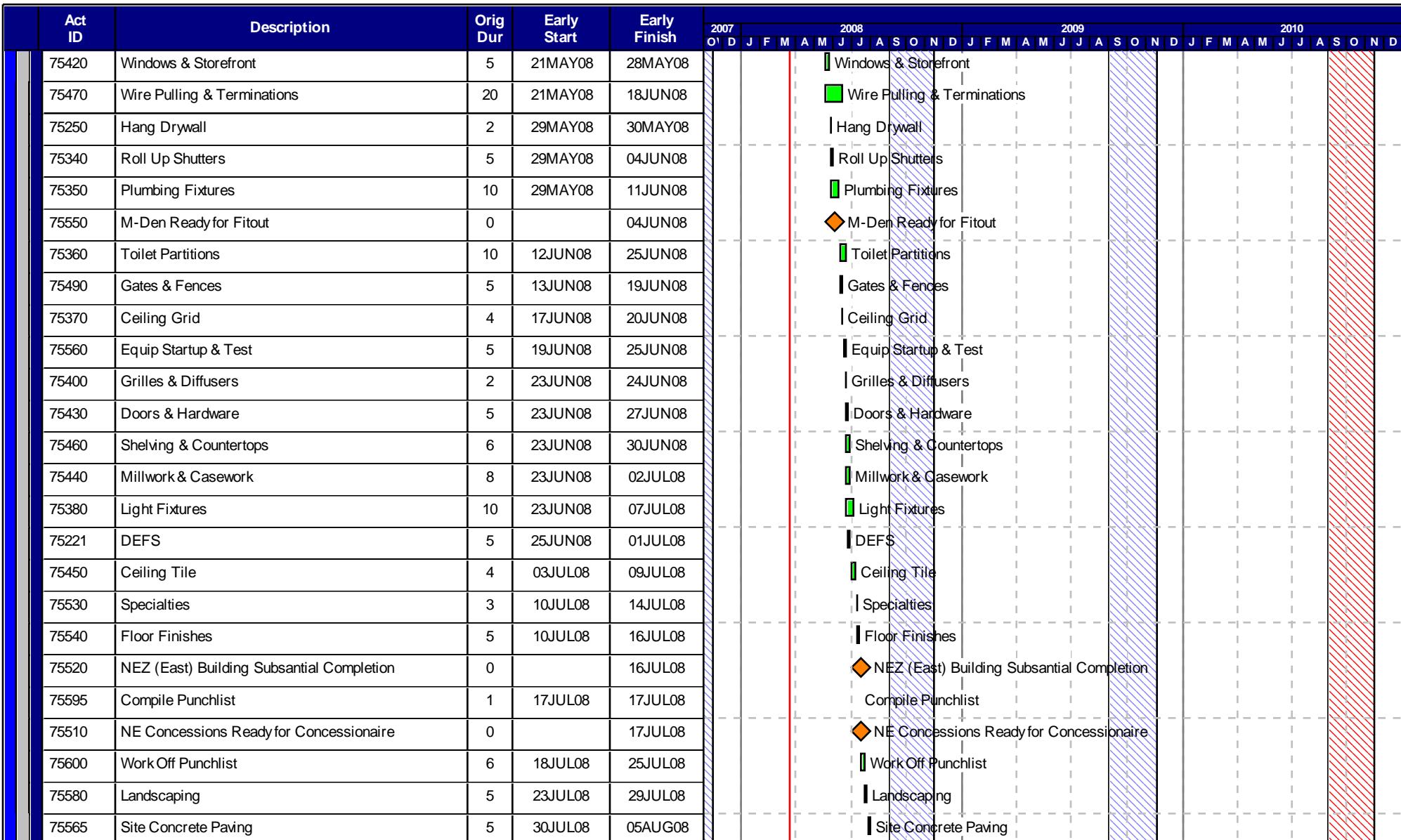


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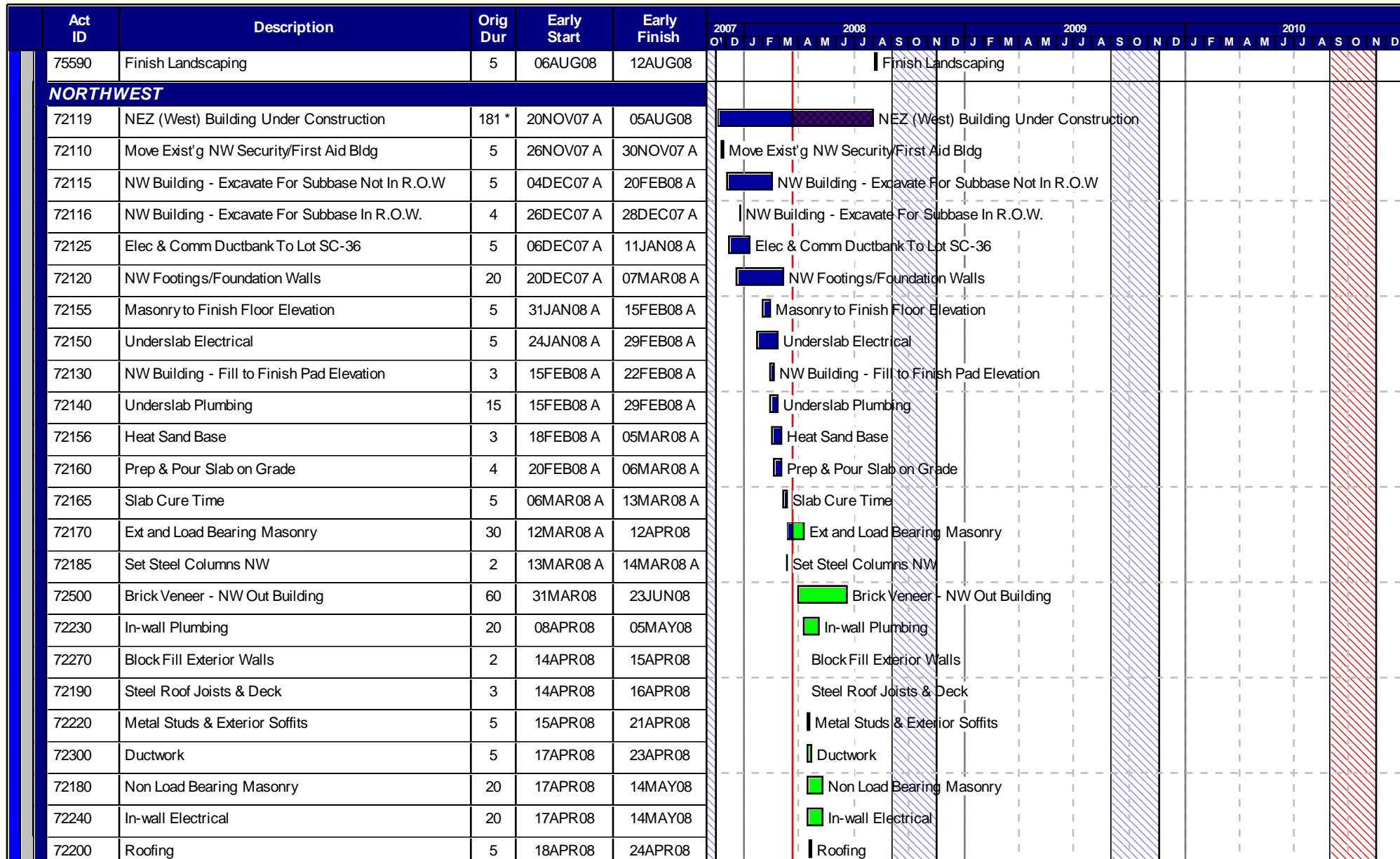




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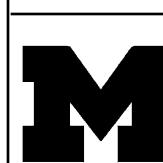
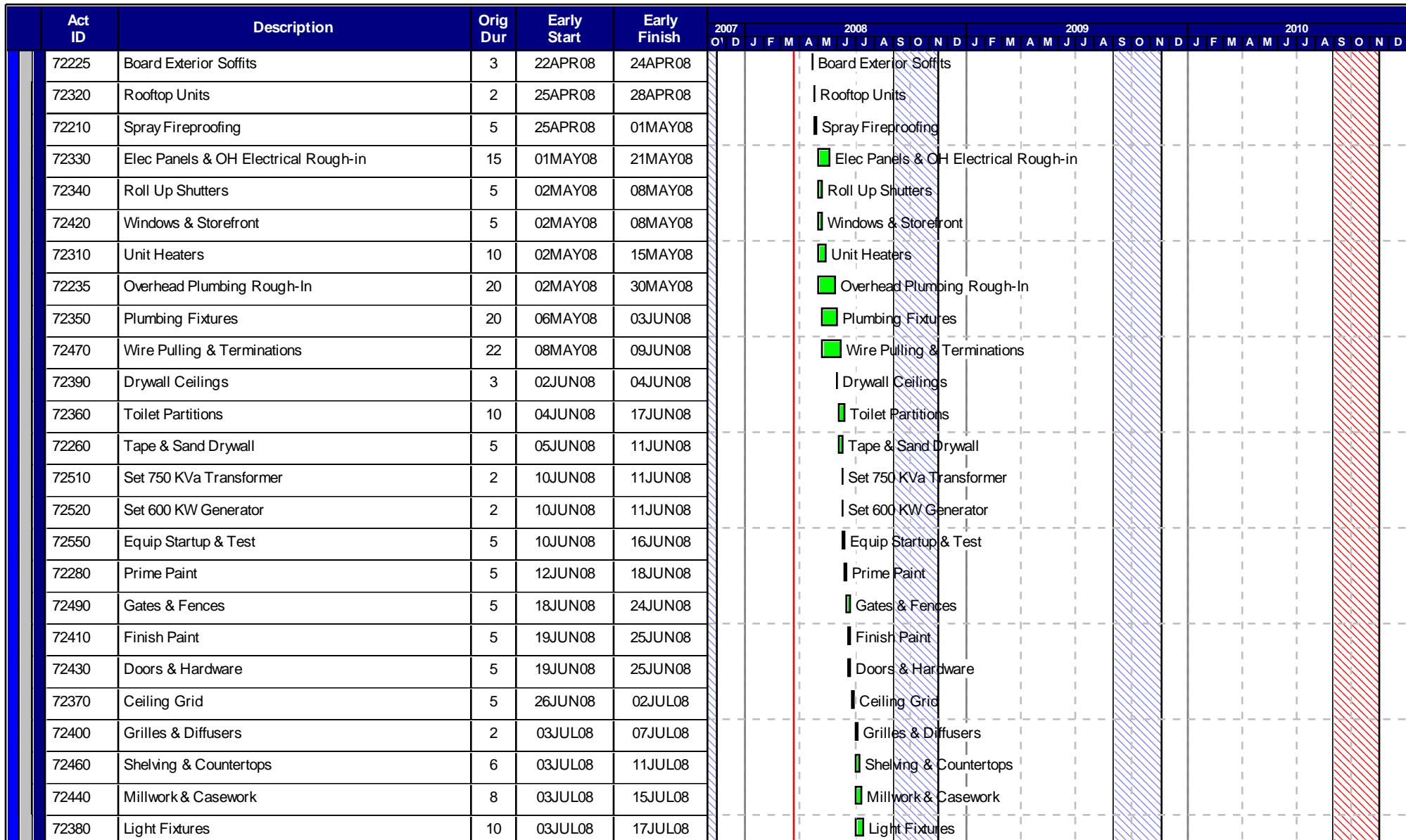


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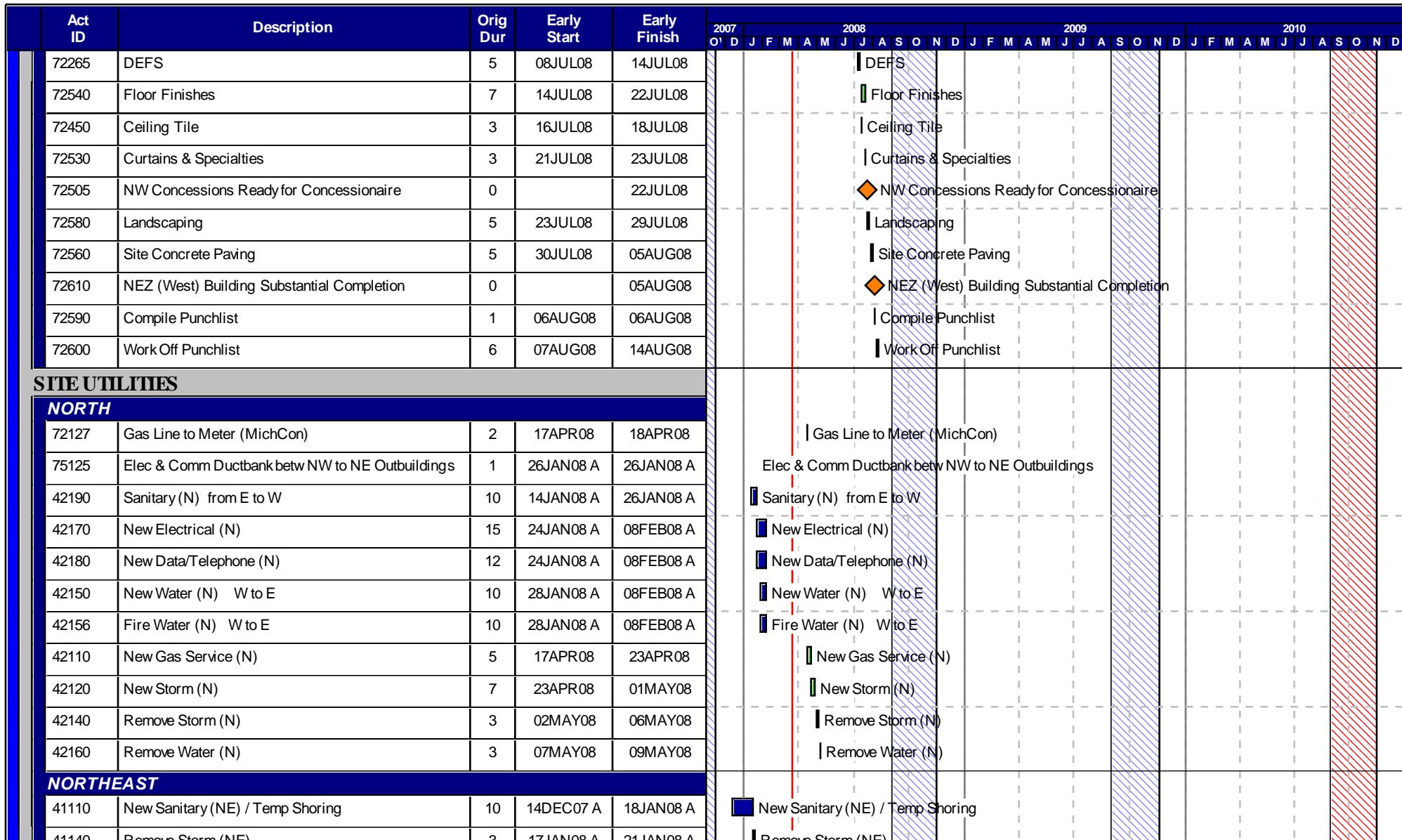


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O	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
41120	Abandon Sanitary (NE)	1	21JAN08 A	21JAN08 A																					
42155	New Water (NE)	1	13FEB08 A	15FEB08 A																					
42166	Fire Water (NE)	1	13FEB08 A	15FEB08 A																					
41150	New Electrical (NE) / Temp Shoring	15	21FEB08 A	04MAR08 A																					
41240	New Gas (NE)	3	24APR08	28APR08																					
42165	Storm (NE)	2	02MAY08	05MAY08																					
<b>EAST</b>																									
43200	Temp Refeed DTE to Crisler	10	26NOV07 A	28NOV07 A																					
43170	Demo/Remove DTE from Crisler	3	07JAN08 A	09JAN08 A																					
43180	New Tel/Com Ductbank from Crisler E	5	09JAN08 A	15JAN08 A																					
43110	Sanitary E	10	21JAN08 A	01FEB08 A																					
43160	Underground Electrical (E)	5	04MAR08 A	11MAR08 A																					
43186	East Service Level 10" Sanitary/Underground	3	13MAR08 A	18MAR08 A																					
43190	Refeed UM Power to Crisler	5	21MAR08	27MAR08																					
43120	New Storm (E)	2	06MAY08	07MAY08																					
43300	New Water (E) In Micropile Area	2	21APR08 *	22APR08																					
43185	New Data/Telephone (E) (In Micropile Area)	2	21APR08	22APR08																					
<b>SOUTHEAST</b>																									
51110	New Sanitary (SE)	10	11FEB08 A	26FEB08 A																					
51120	New Storm (SE)	8	27FEB08 A	01MAR08 A																					
51130	Remove Existing Storm (SE)	2	27FEB08 A	01MAR08 A																					
51140	New Water (SE)	6	03MAR08 A	06MAR08 A																					
51185	New Data/Telephone/Power (SE)	5	12MAR08 A	14MAR08 A																					
<b>SOUTH</b>																									
51210	New Sanitary (S)	12	18FEB08 A	22FEB08 A																					
51220	New Water (S)	5	07MAR08 A	10MAR08 A																					

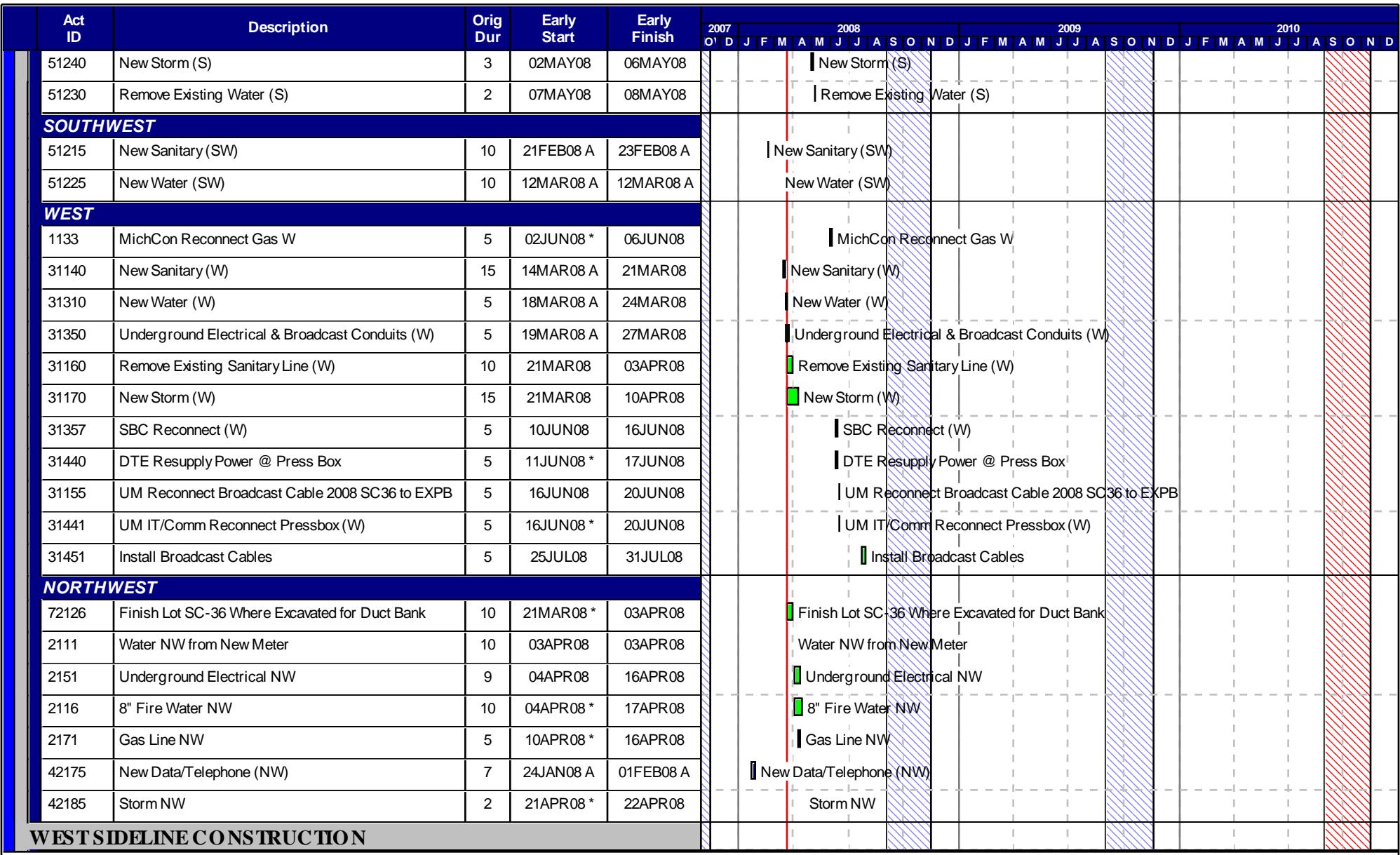


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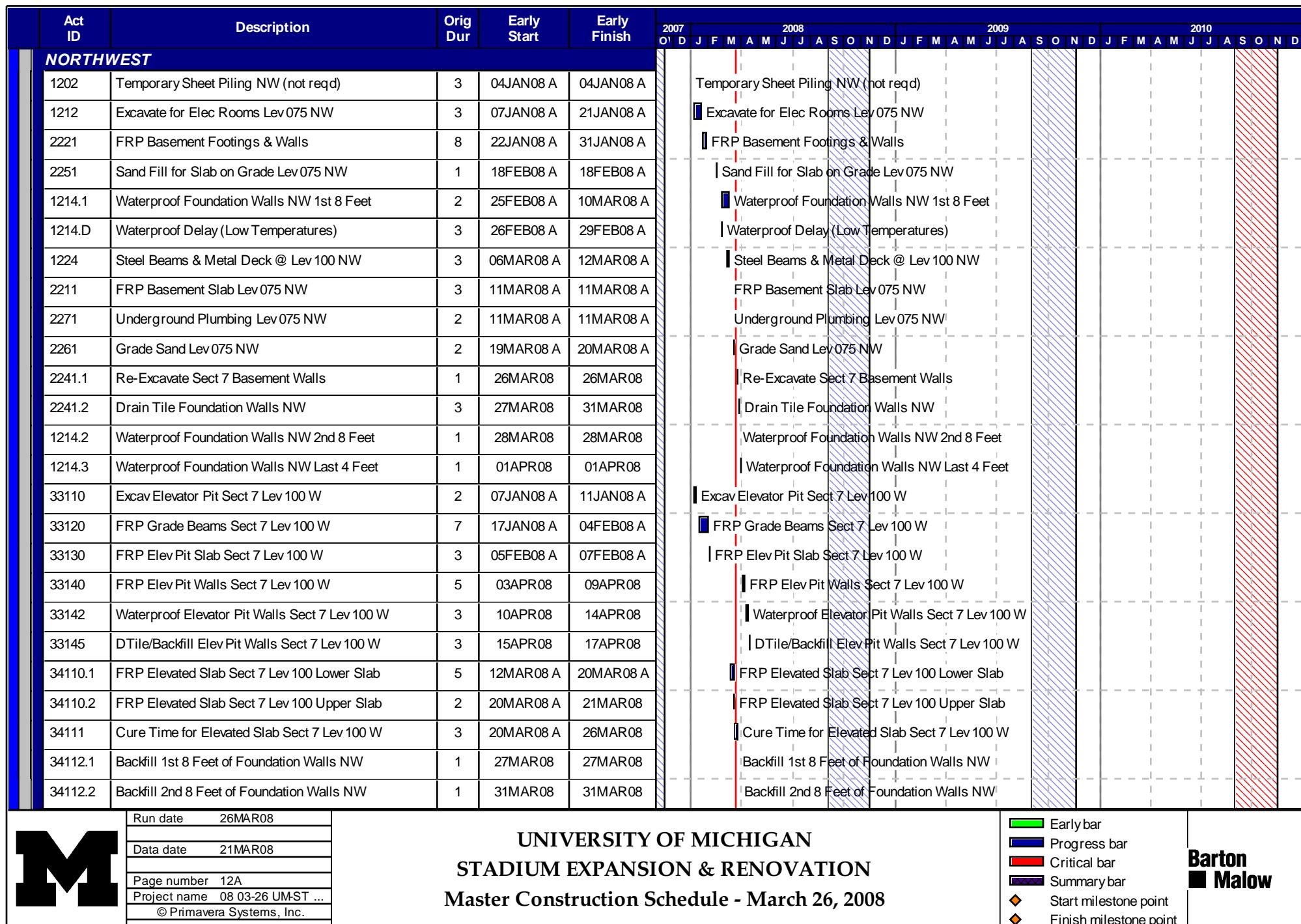


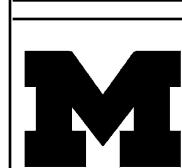
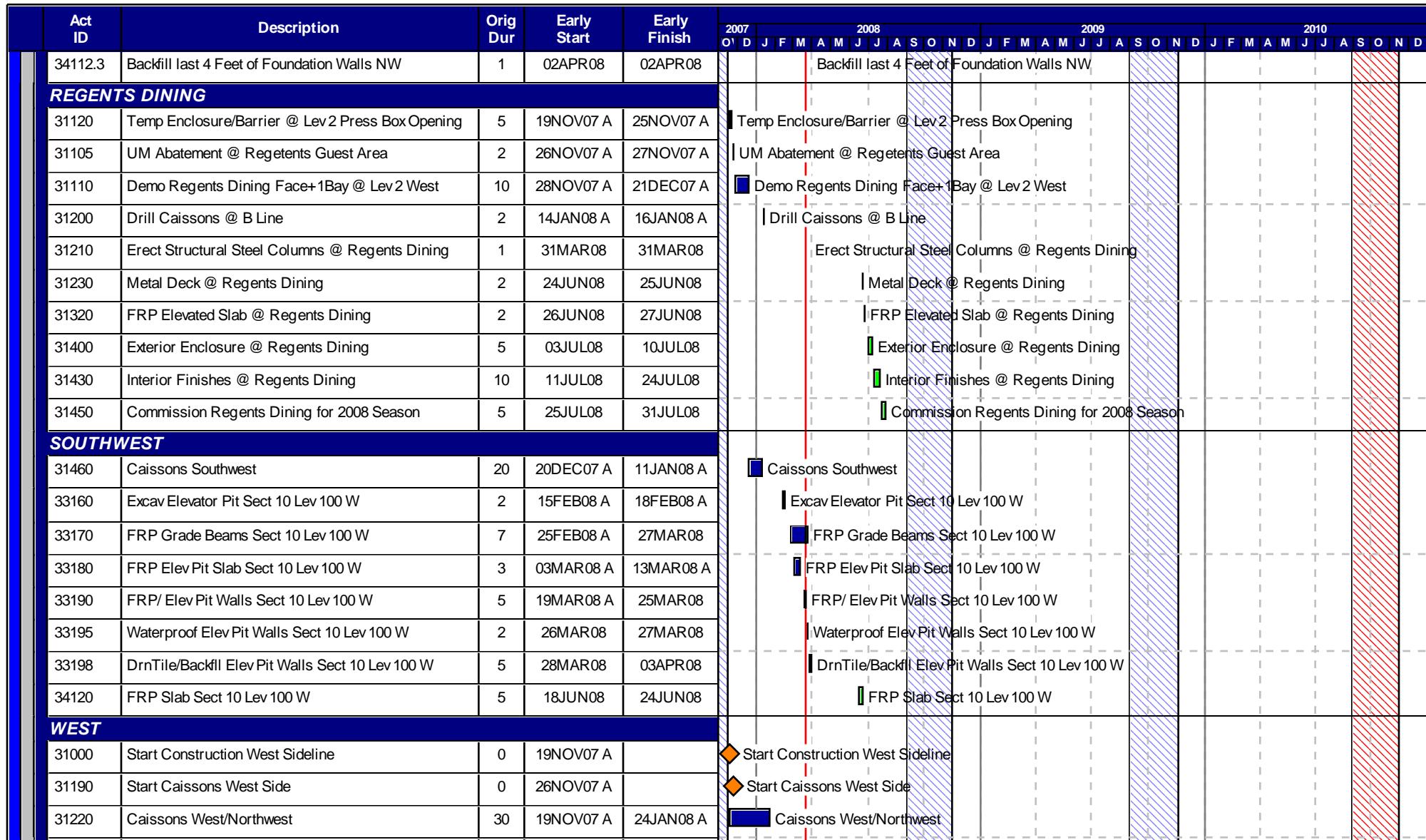
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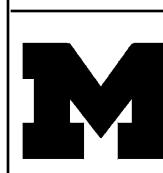
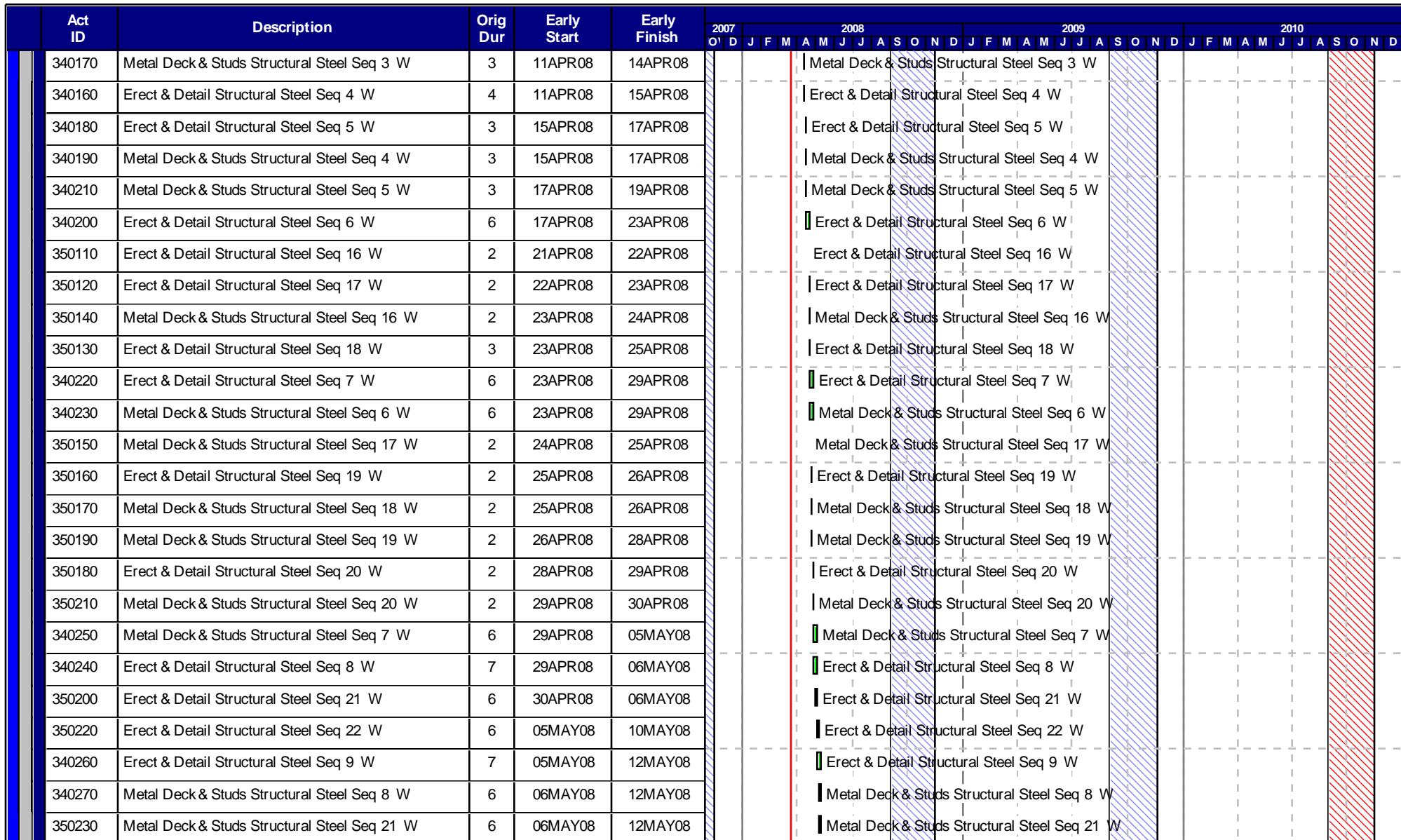


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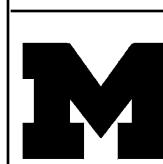
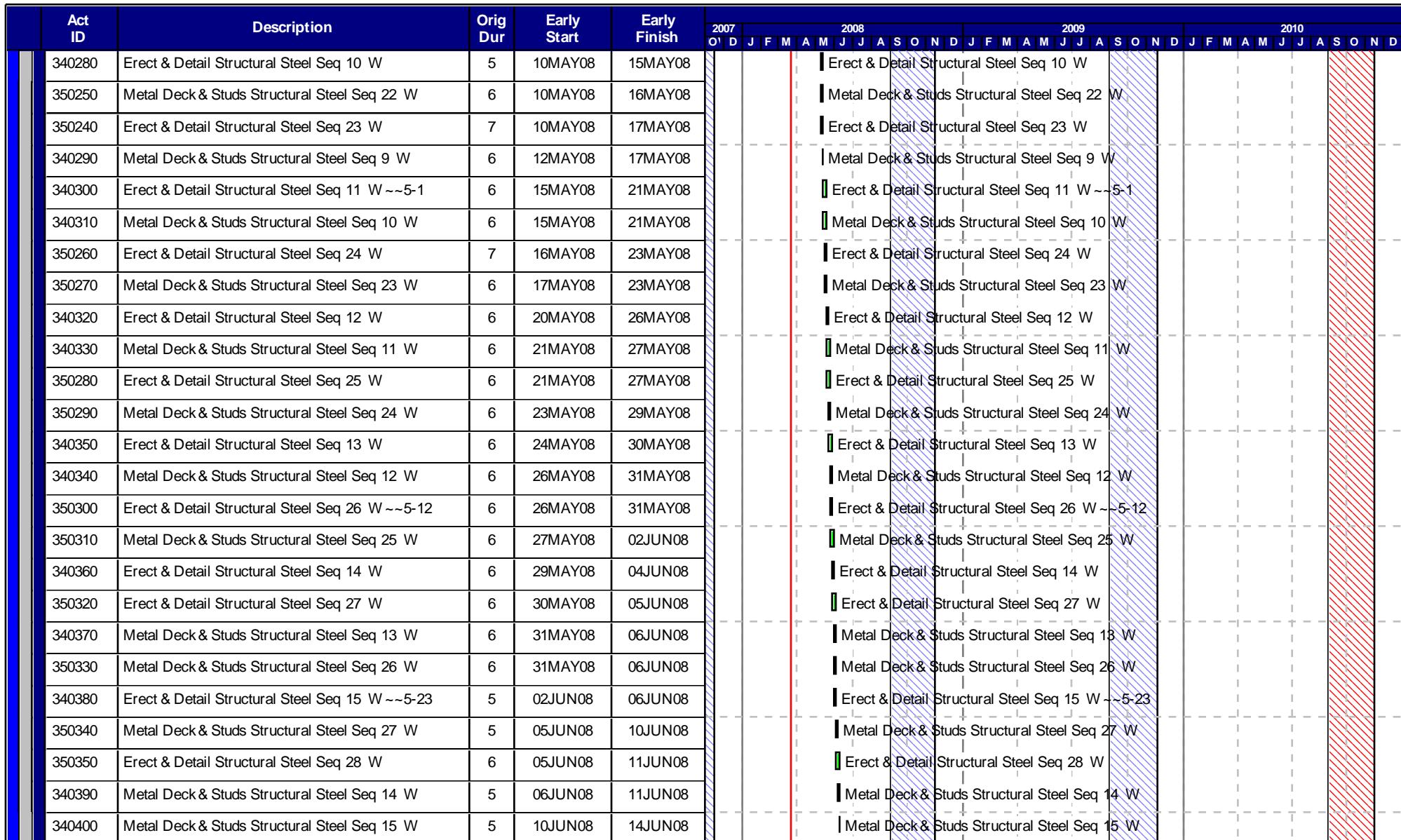


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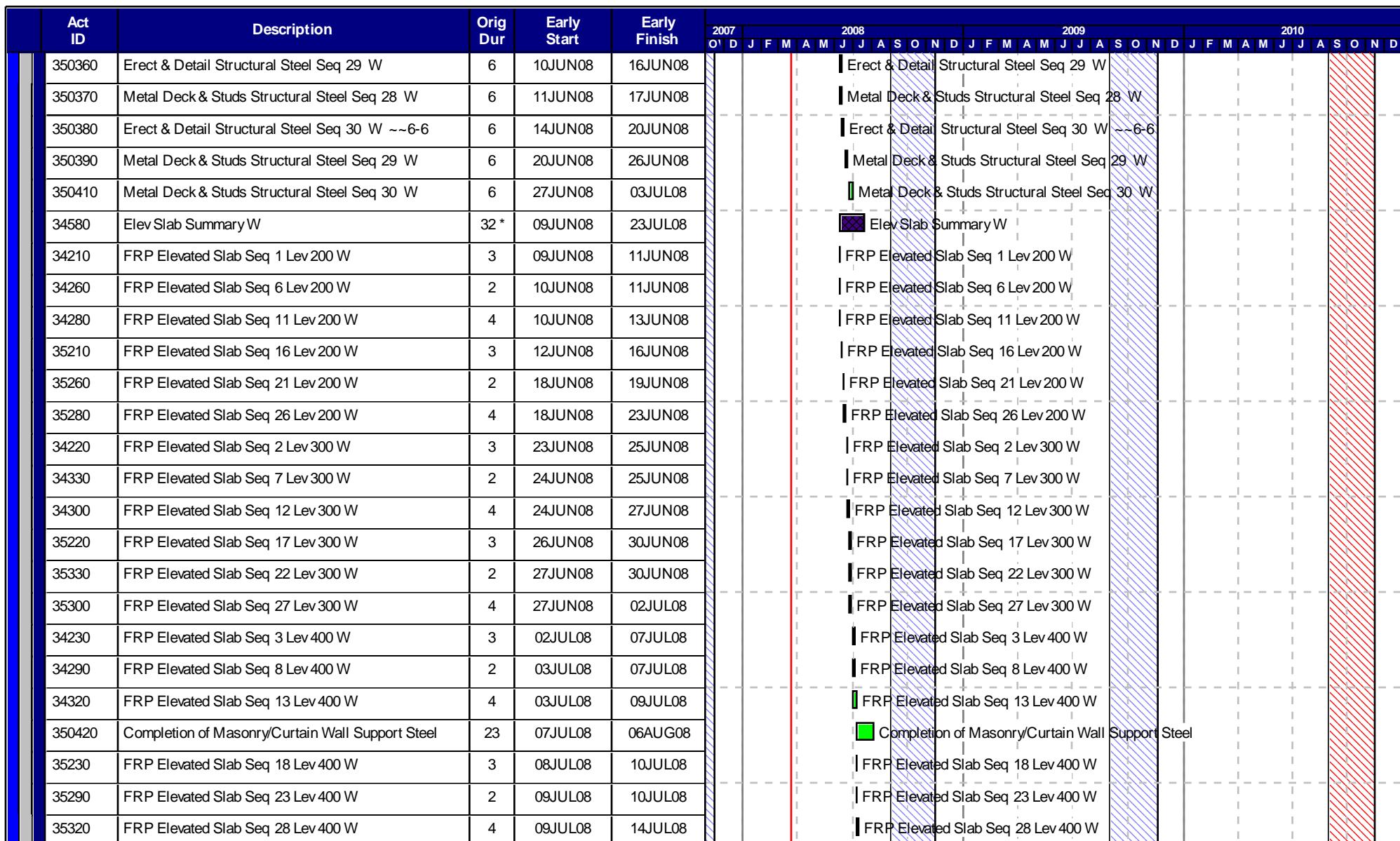


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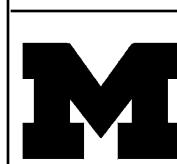
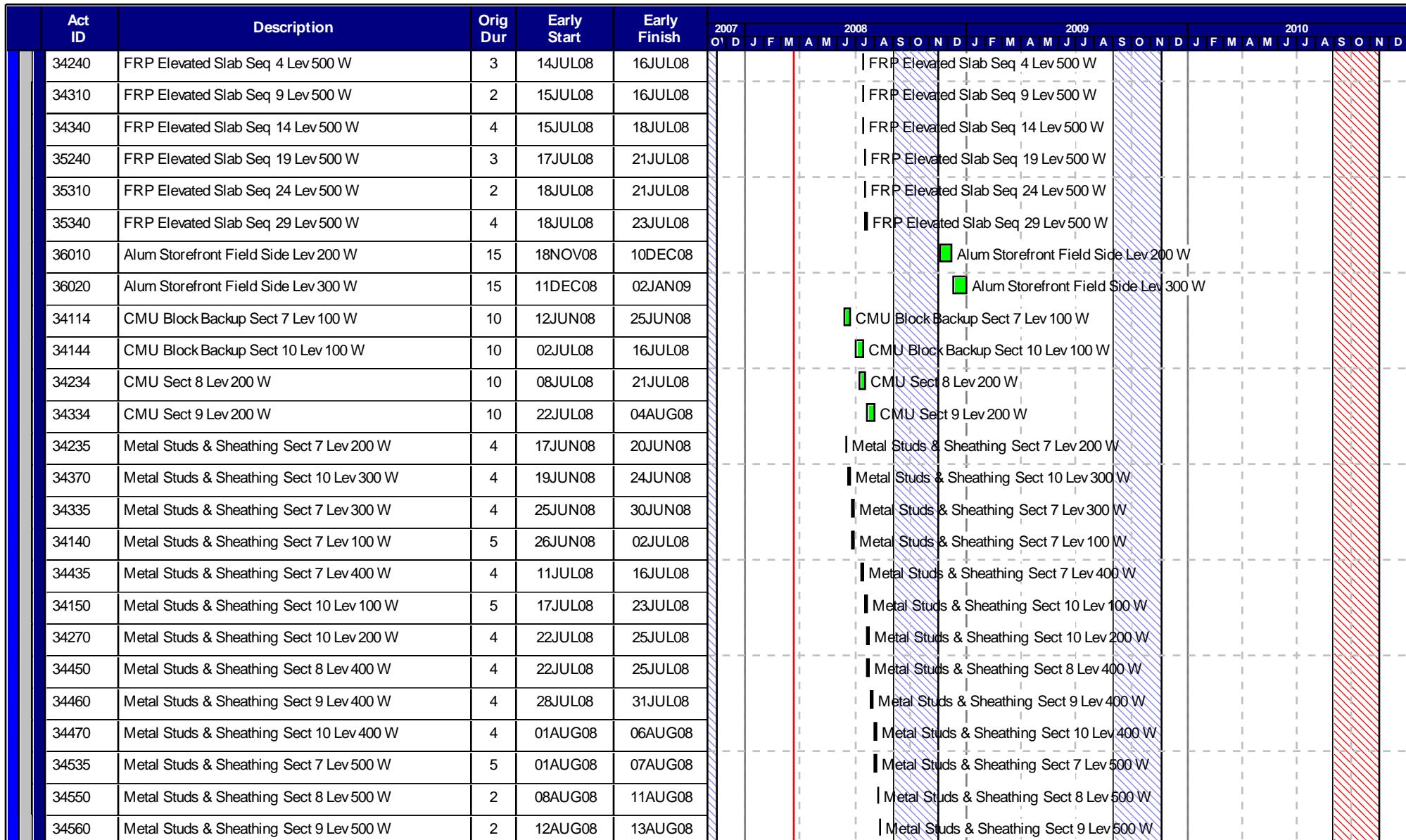


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**UNIVERSITY OF MICHIGAN  
STADIUM EXPANSION & RENOVATION  
Master Construction Schedule - March 26, 2008**

- █ Early bar
- █ Progress bar
- █ Critical bar
- █ Summary bar
- ◆ Start milestone point
- ◆ Finish milestone point

**Barton Malow**

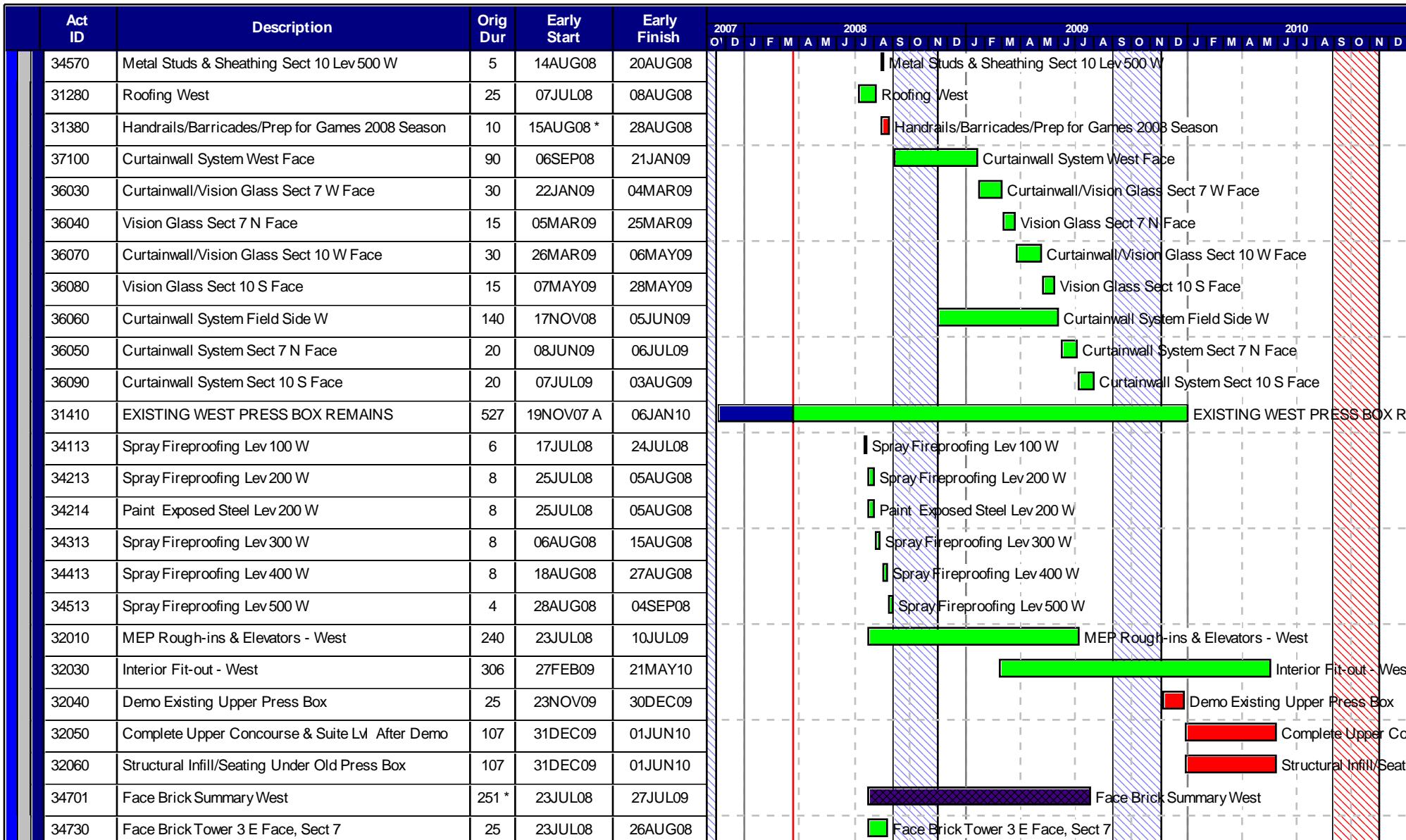


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STADIUM EXPANSION & RENOVATION  
Master Construction Schedule - March 26, 2008**

- █ Early bar
- █ Progress bar
- █ Critical bar
- █ Summary bar
- ◆ Start milestone point
- ◆ Finish milestone point



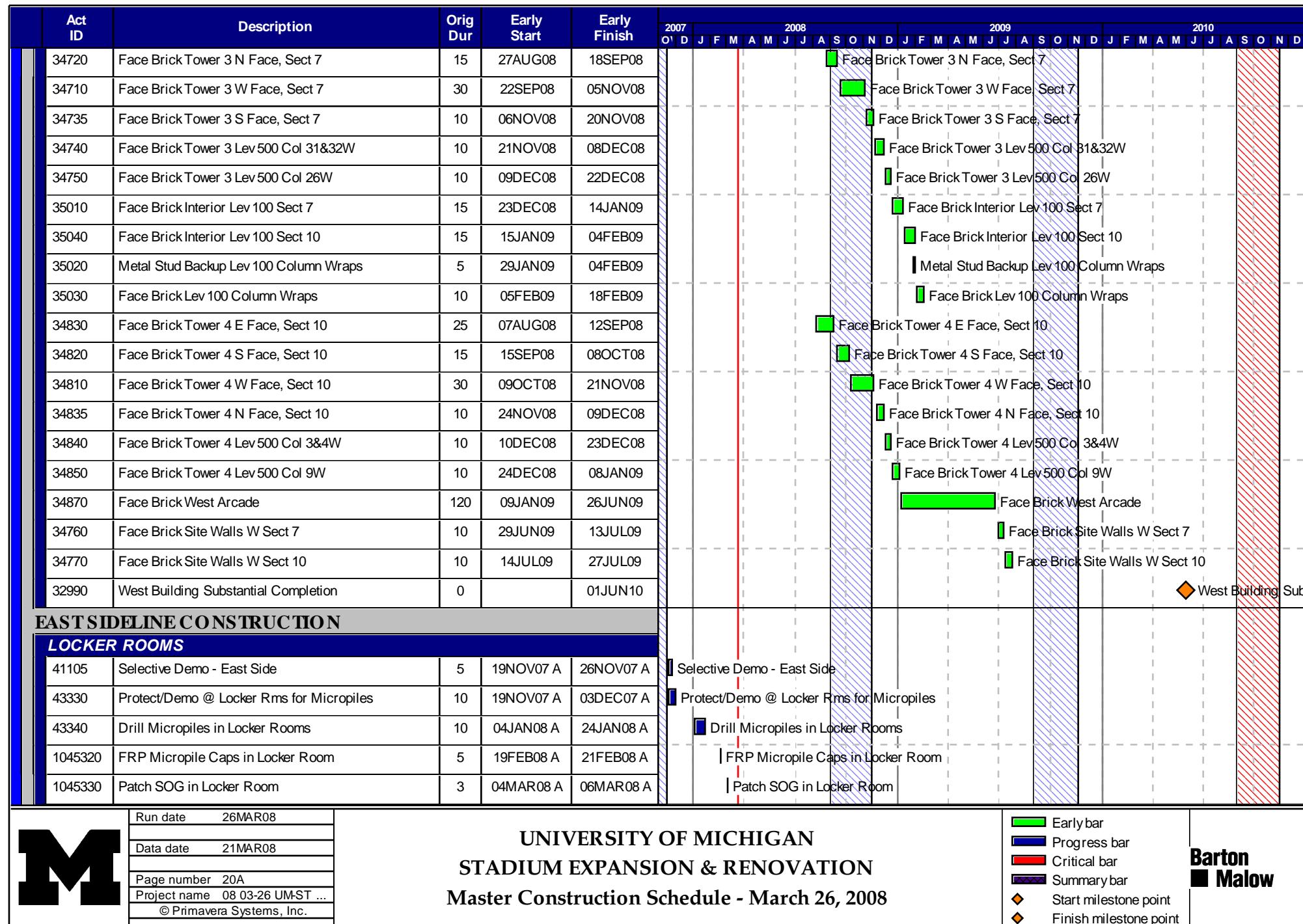


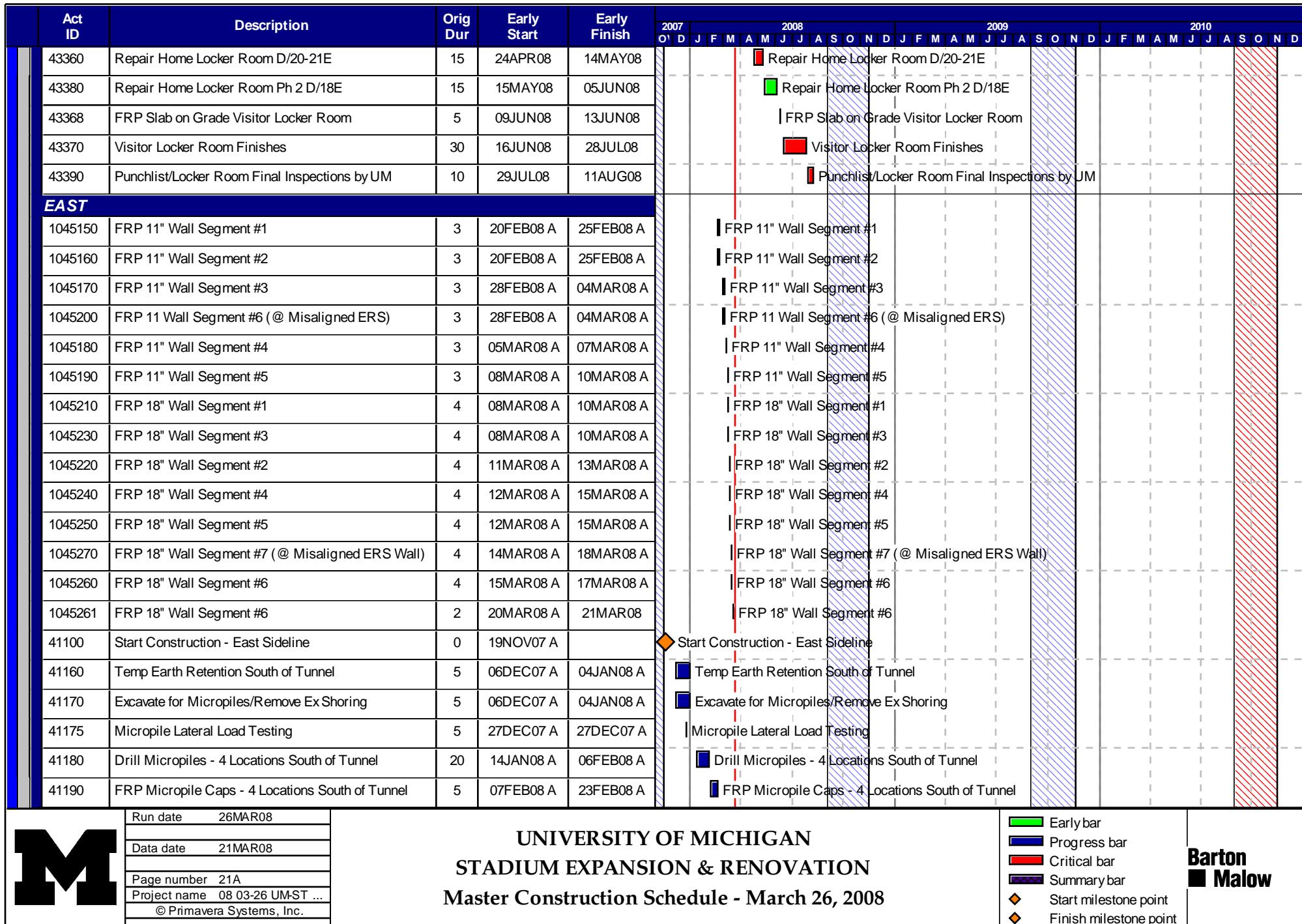
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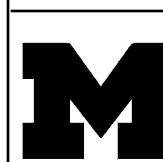
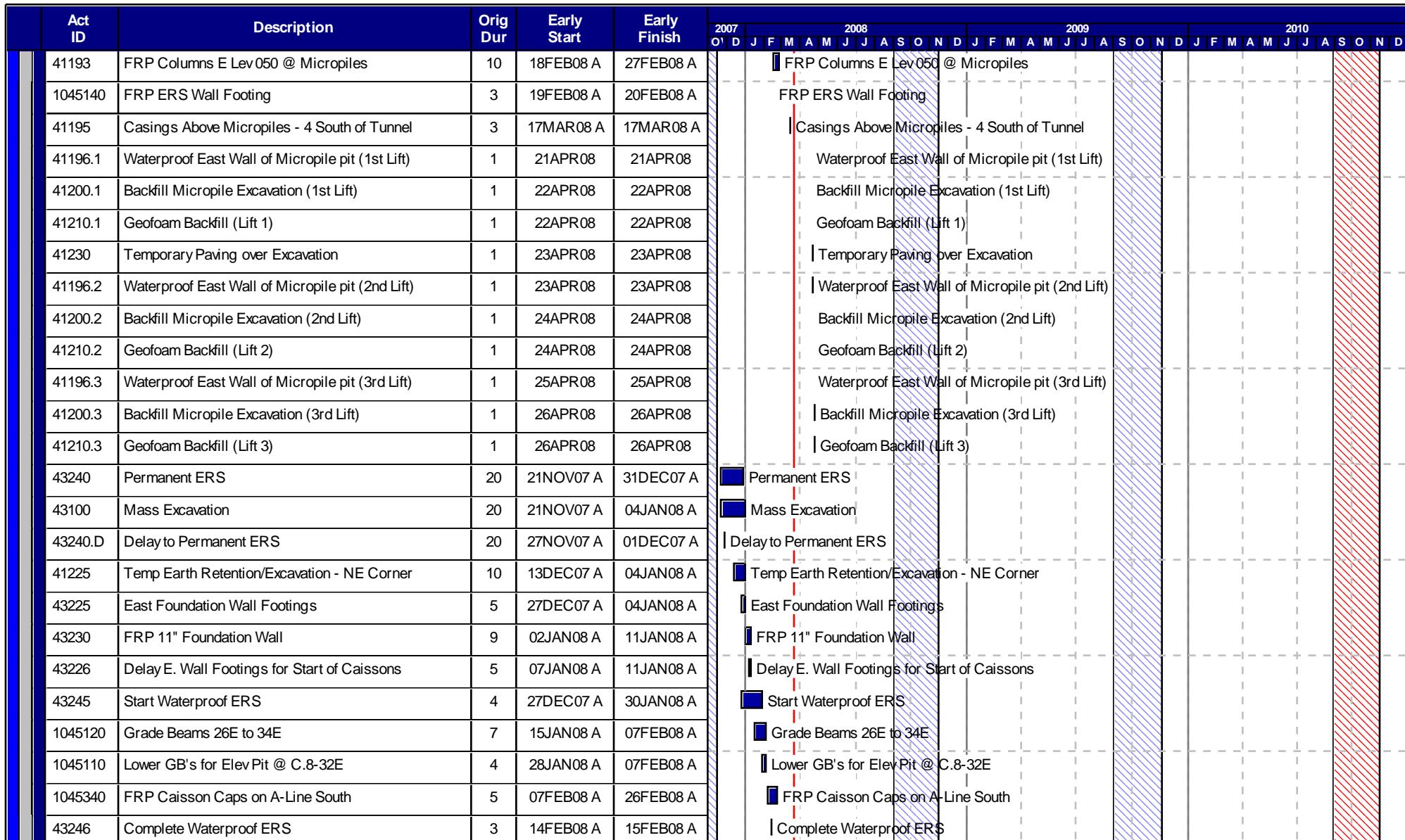
UNIVERSITY OF MICHIGAN  
STADIUM EXPANSION & RENOVATION  
Master Construction Schedule - March 26, 2008

- [Green square] Early bar
- [Blue square] Progress bar
- [Red square] Critical bar
- [Purple square] Summary bar
- [Diamond marker] Start milestone point
- [Diamond marker] Finish milestone point

Barton Malow







UNIVERSITY OF MICHIGAN  
STADIUM EXPANSION & RENOVATION  
Master Construction Schedule - March 26, 2008

- Early bar
- Progress bar
- Critical bar
- Summary bar
- Start milestone point
- Finish milestone point

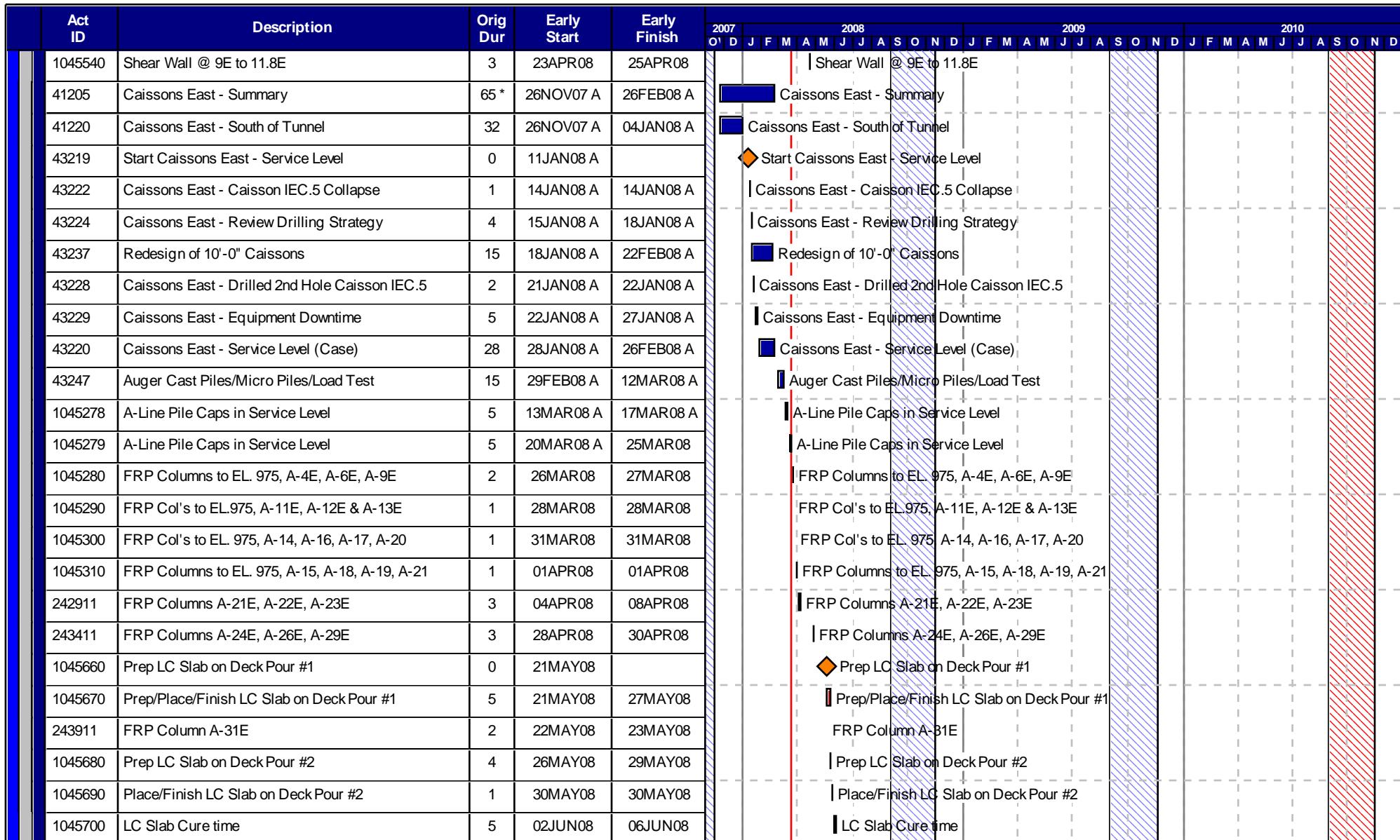




UNIVERSITY OF MICHIGAN  
STADIUM EXPANSION & RENOVATION  
Master Construction Schedule - March 26, 2008

- [Green bar] Early bar
- [Blue bar] Progress bar
- [Red bar] Critical bar
- [Purple bar] Summary bar
- [Diamond] Start milestone point
- [Diamond] Finish milestone point



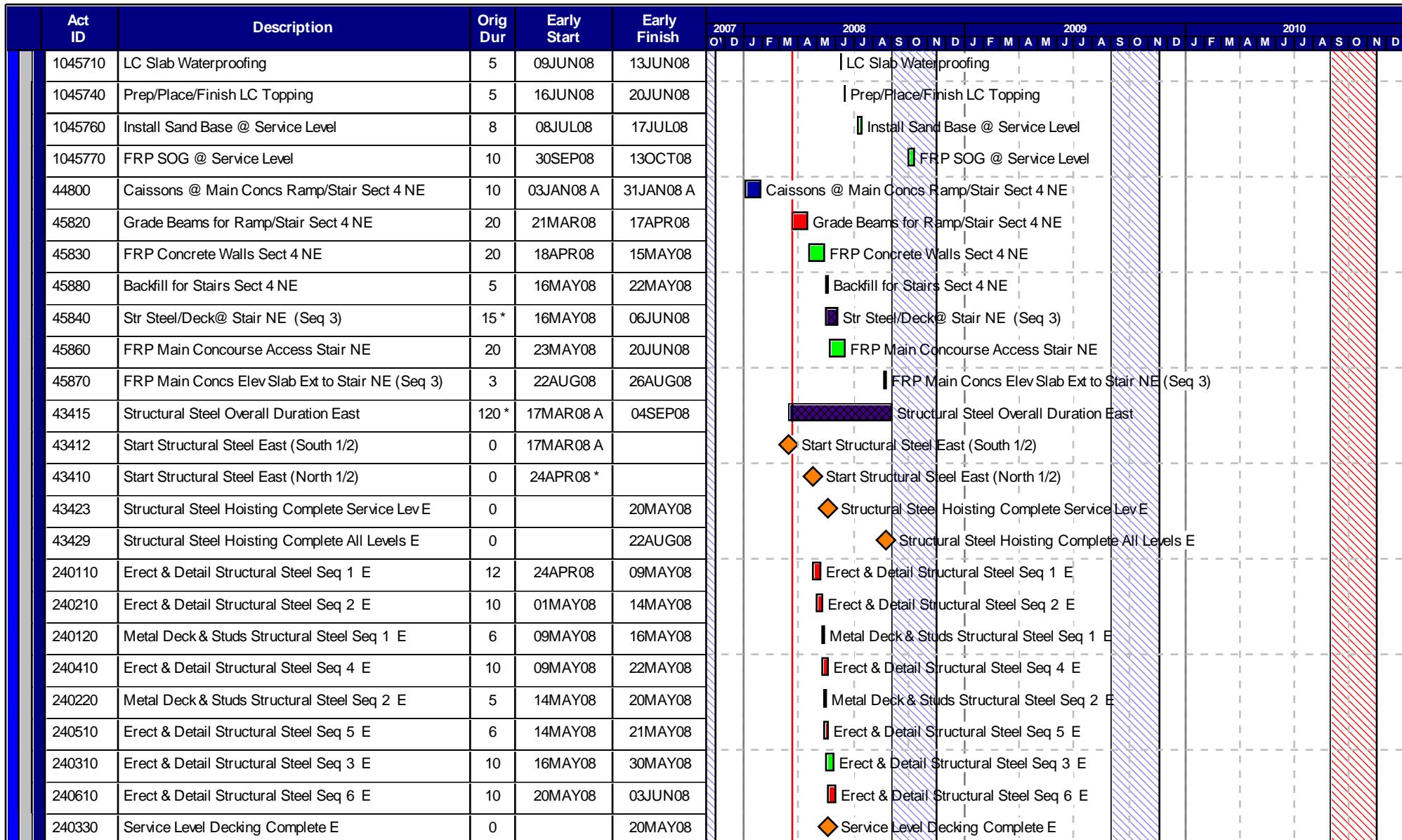


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STADIUM EXPANSION & RENOVATION  
Master Construction Schedule - March 26, 2008**



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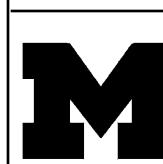
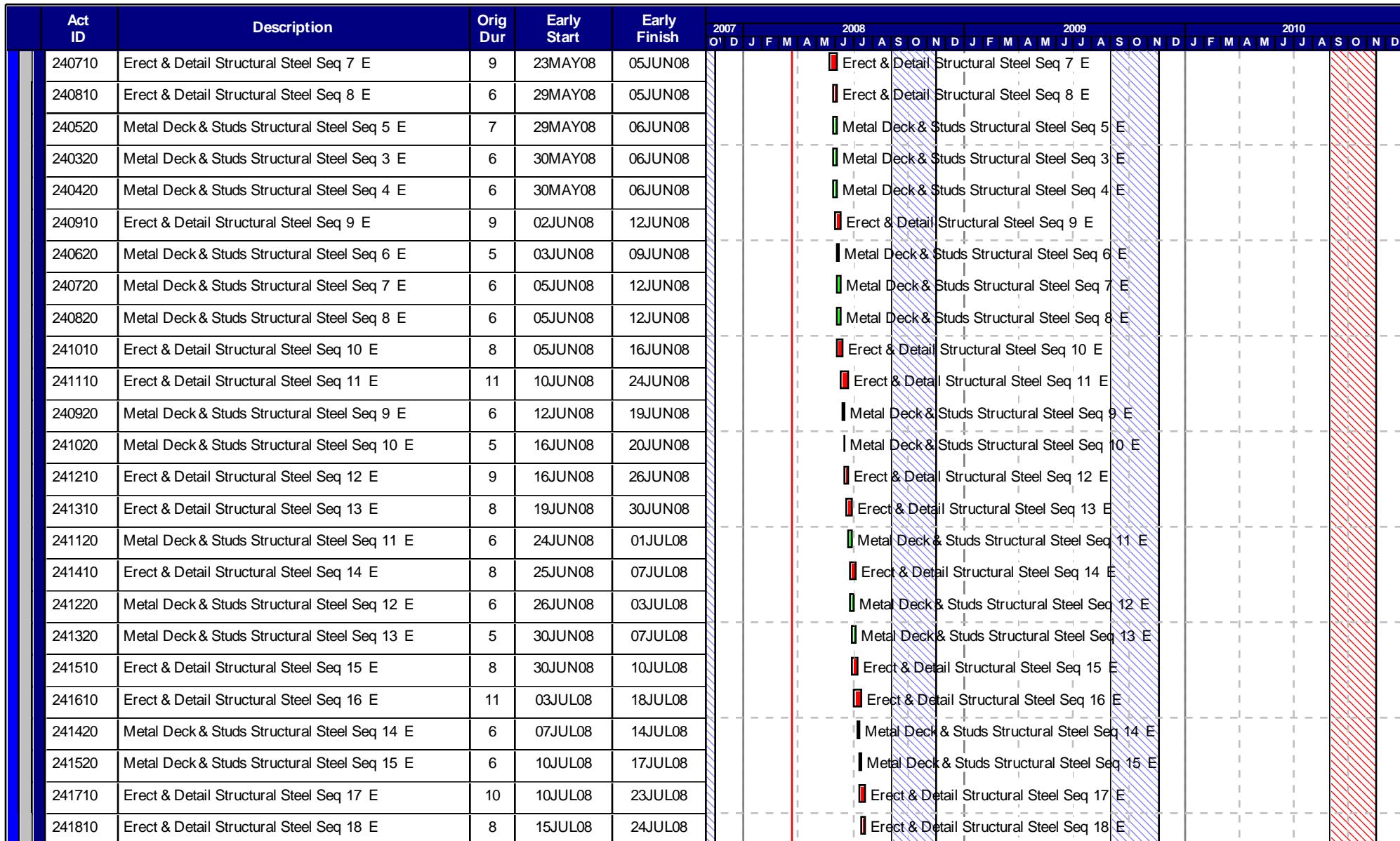


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Master Construction Schedule - March 26, 2008**

- Early bar
- Progress bar
- Critical bar
- Summary bar
- ◆ Start milestone point
- ◆ Finish milestone point

**Barton Malow**

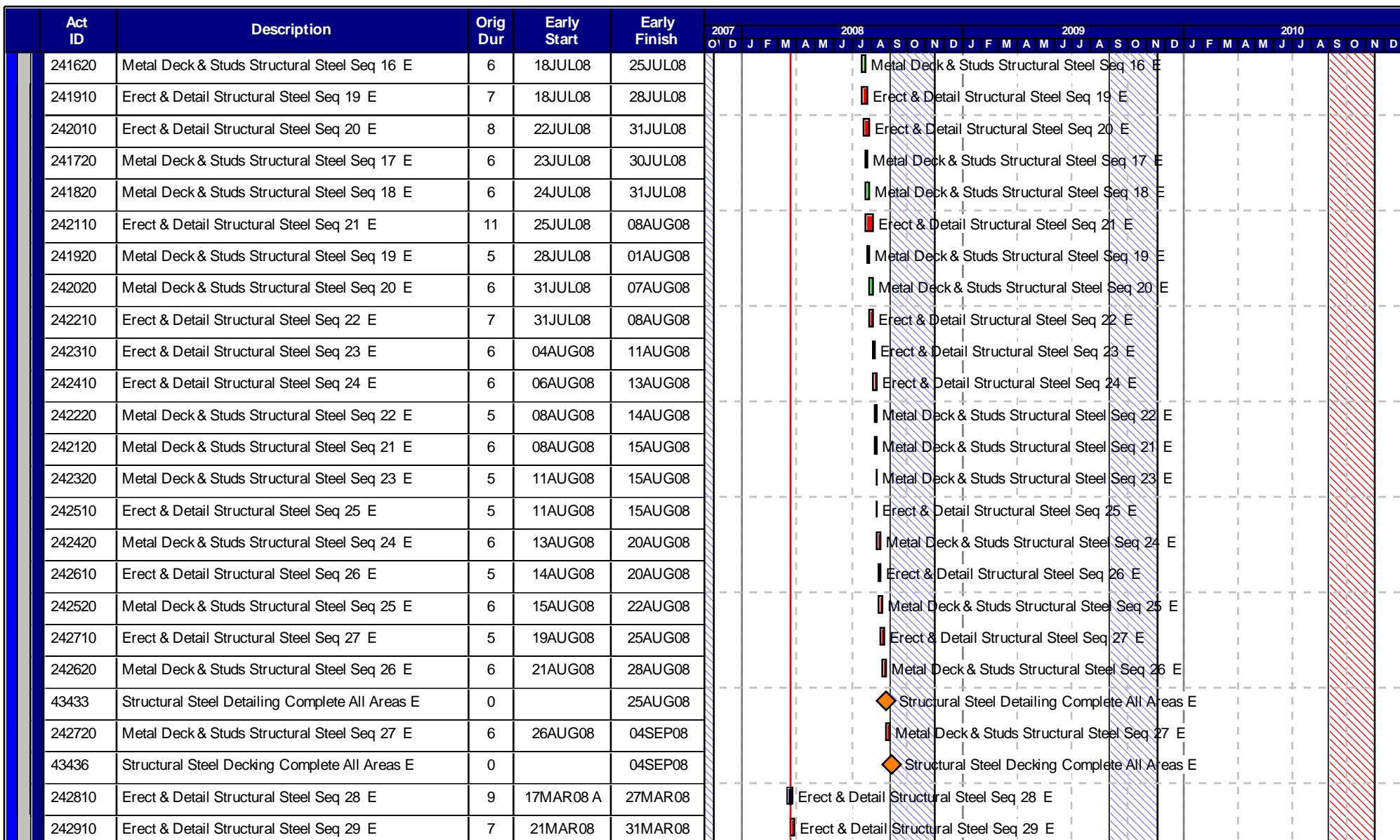


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Master Construction Schedule - March 26, 2008**

- █ Early bar
- █ Progress bar
- █ Critical bar
- █ Summary bar
- ◆ Start milestone point
- ◆ Finish milestone point



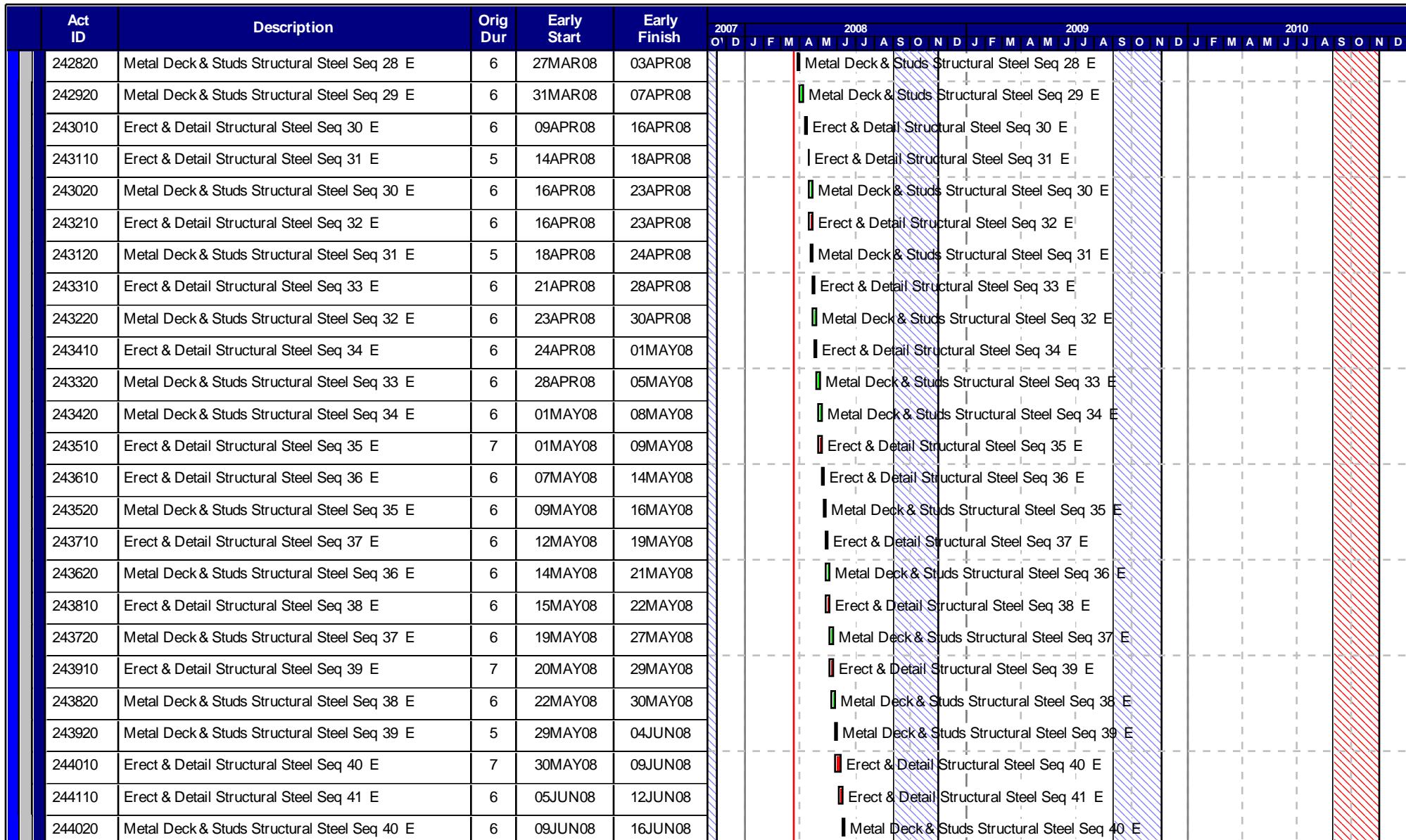


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Master Construction Schedule - March 26, 2008**

- [Green] Early bar
- [Blue] Progress bar
- [Red] Critical bar
- [Purple] Summary bar
- [Orange Diamond] Start milestone point
- [Orange Diamond] Finish milestone point



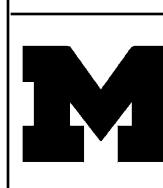
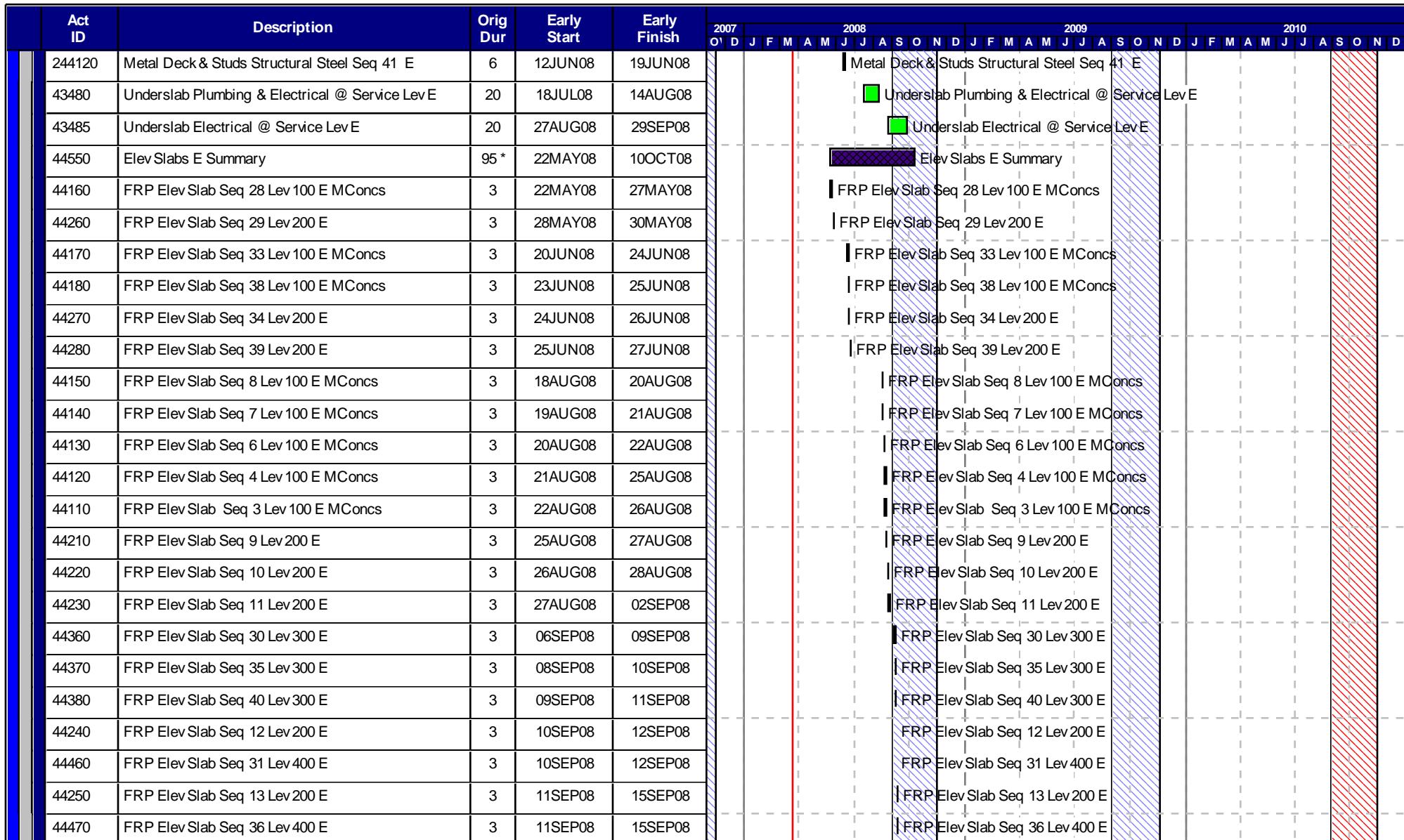


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Master Construction Schedule - March 26, 2008**

- █ Early bar
- █ Progress bar
- █ Critical bar
- █ Summary bar
- ◆ Start milestone point
- ◆ Finish milestone point

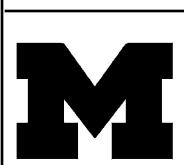
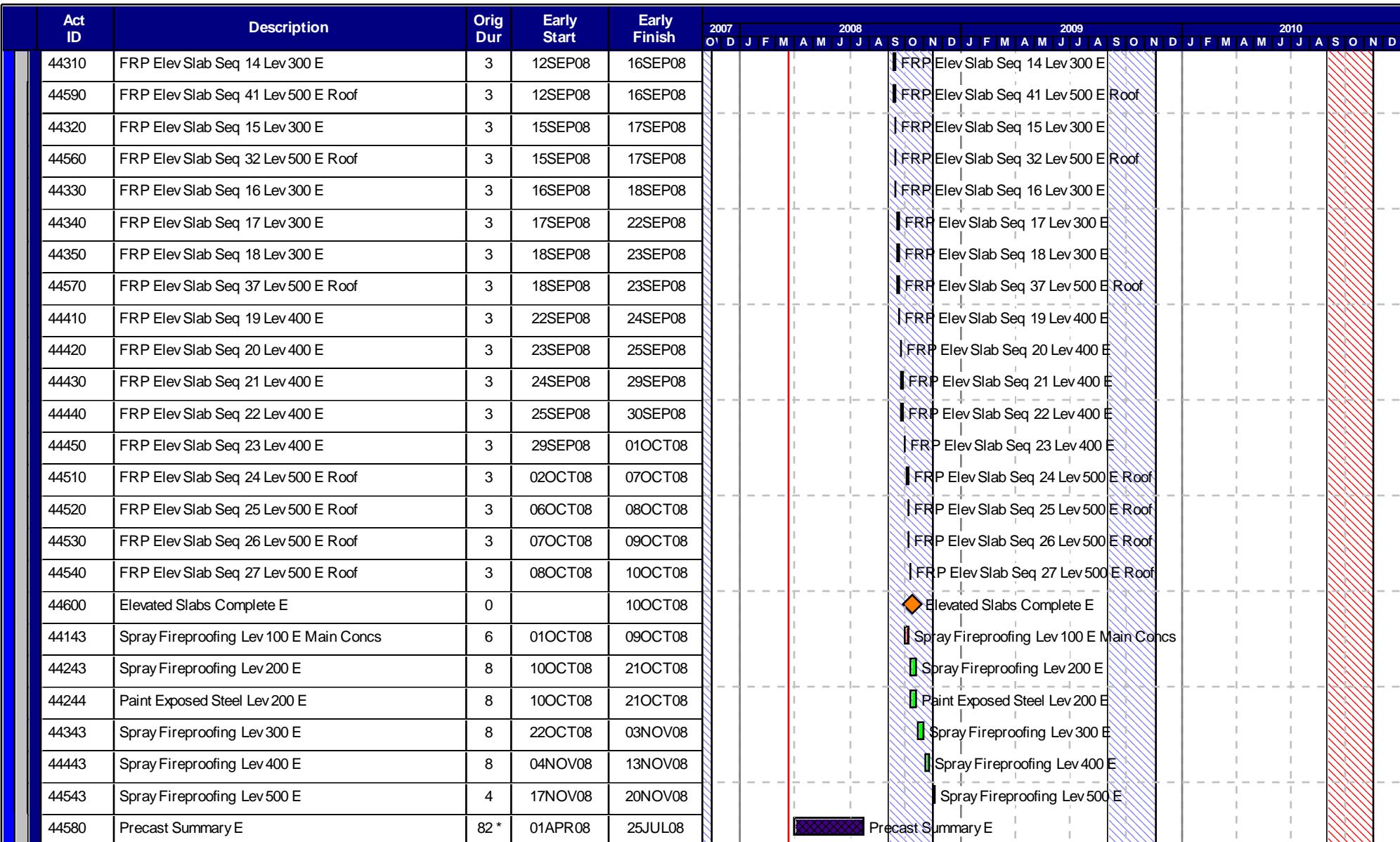




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STADIUM EXPANSION & RENOVATION  
Master Construction Schedule - March 26, 2008

- Early bar
- Progress bar
- Critical bar
- Summary bar
- ◆ Start milestone point
- ◆ Finish milestone point

Barton  
Malow

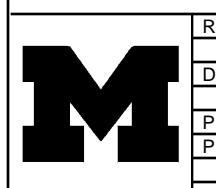
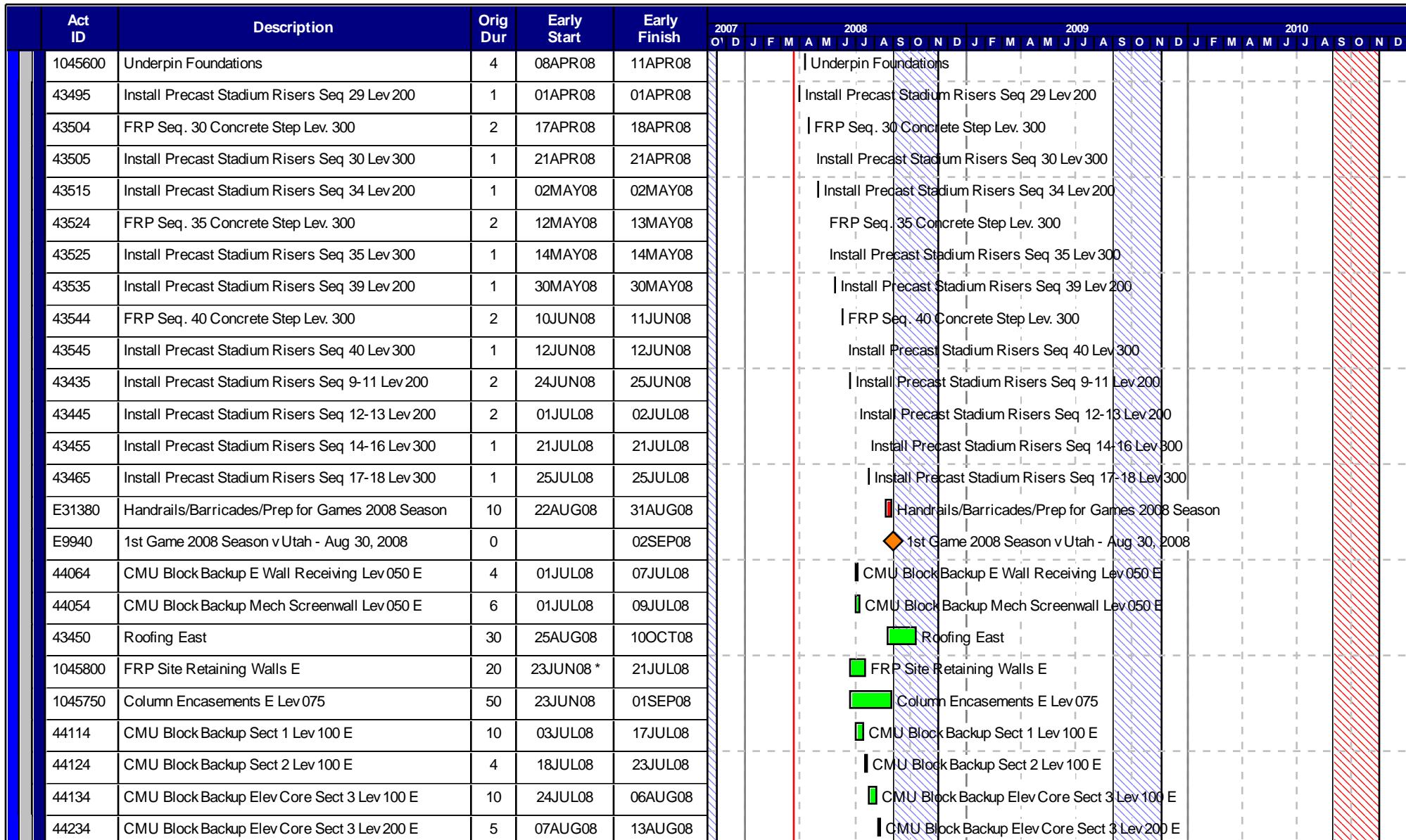


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Master Construction Schedule - March 26, 2008

- █ Early bar
- █ Progress bar
- █ Critical bar
- █ Summary bar
- ◆ Start milestone point
- ◆ Finish milestone point

Barton  
Malow

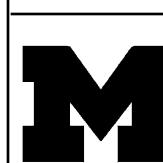
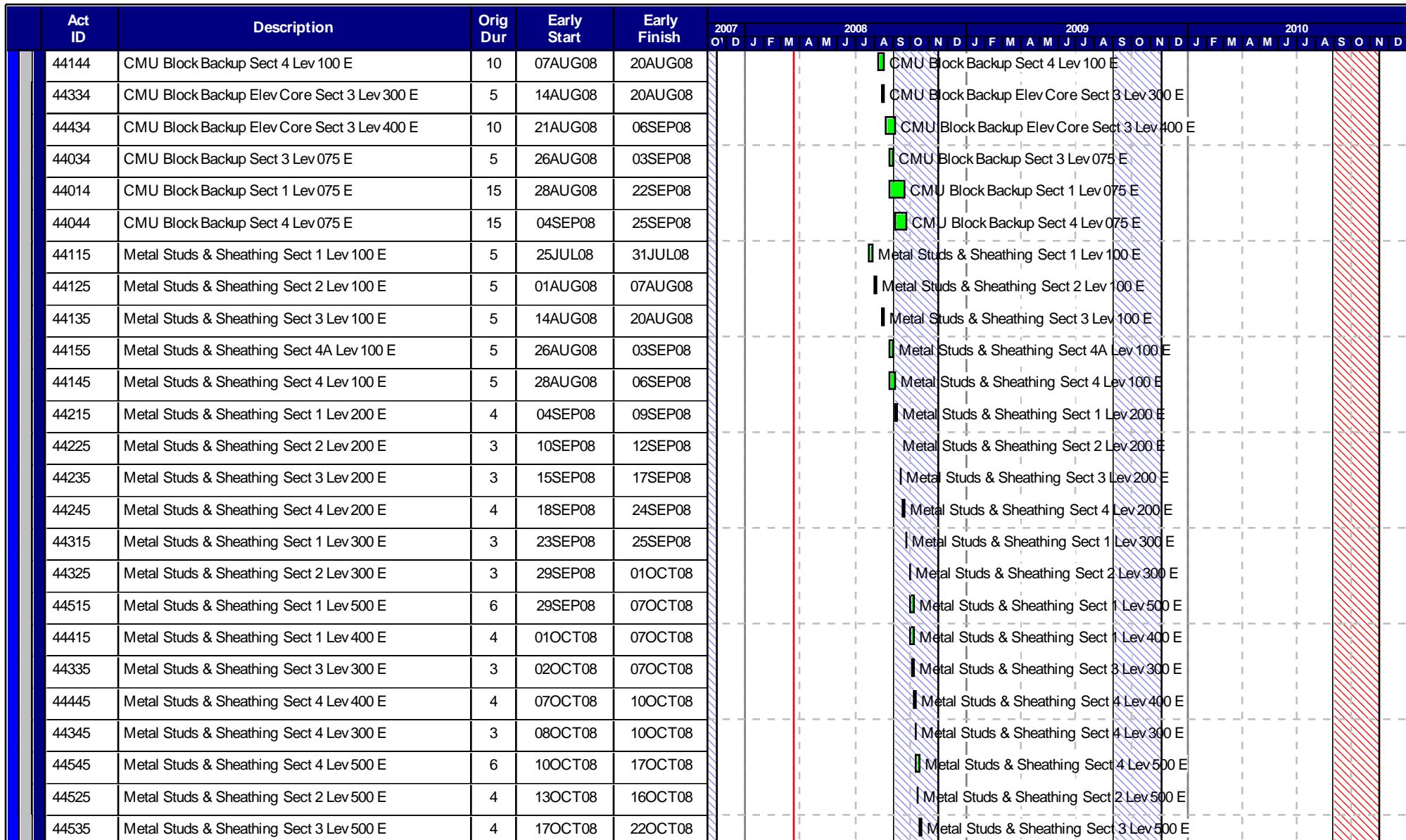


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Master Construction Schedule - March 26, 2008**

- █ Early bar
- █ Progress bar
- █ Critical bar
- █ Summary bar
- ◆ Start milestone point
- ◆ Finish milestone point

**Barton Malow**

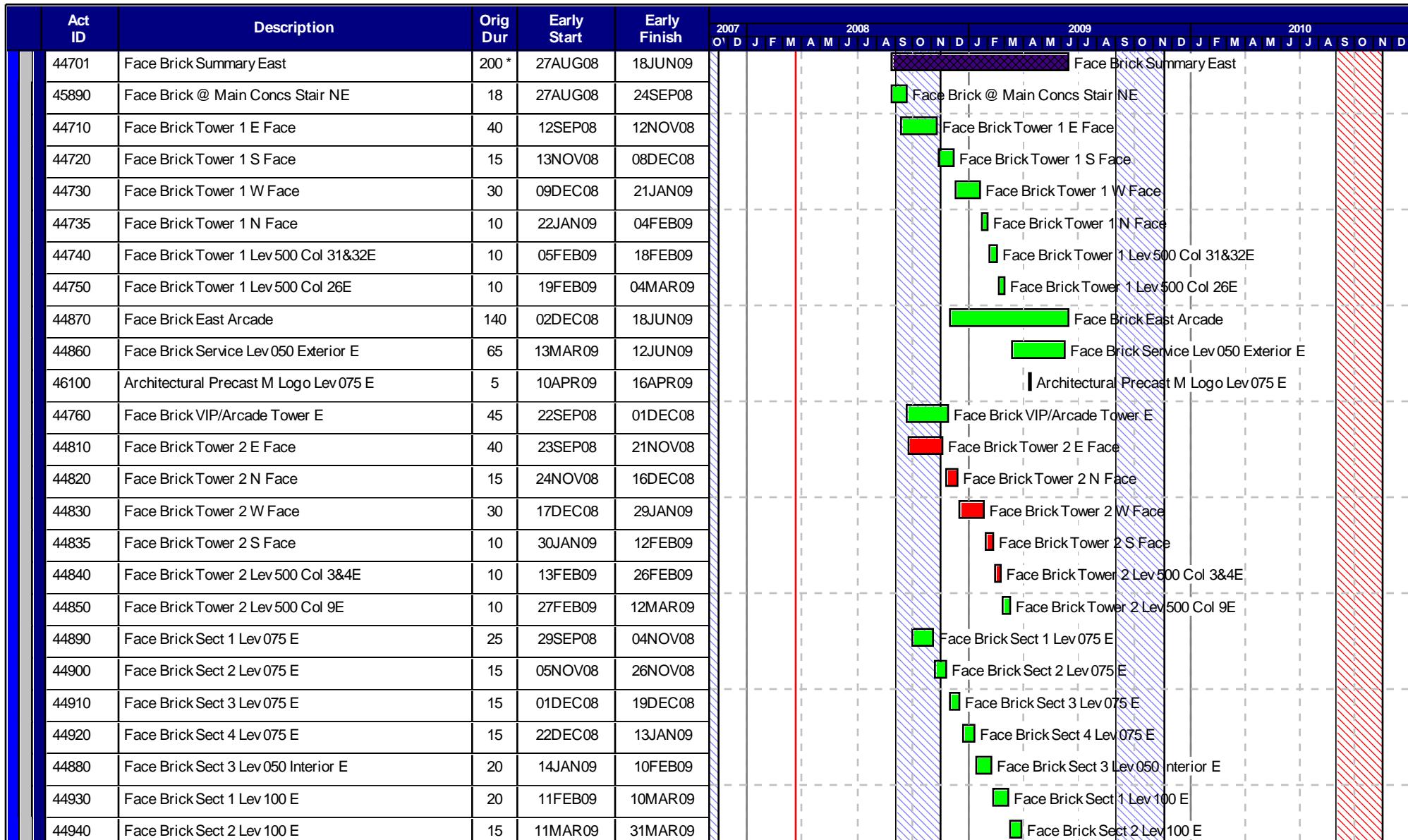


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Master Construction Schedule - March 26, 2008**

- █ Early bar
- █ Progress bar
- █ Critical bar
- █ Summary bar
- ◆ Start milestone point
- ◆ Finish milestone point



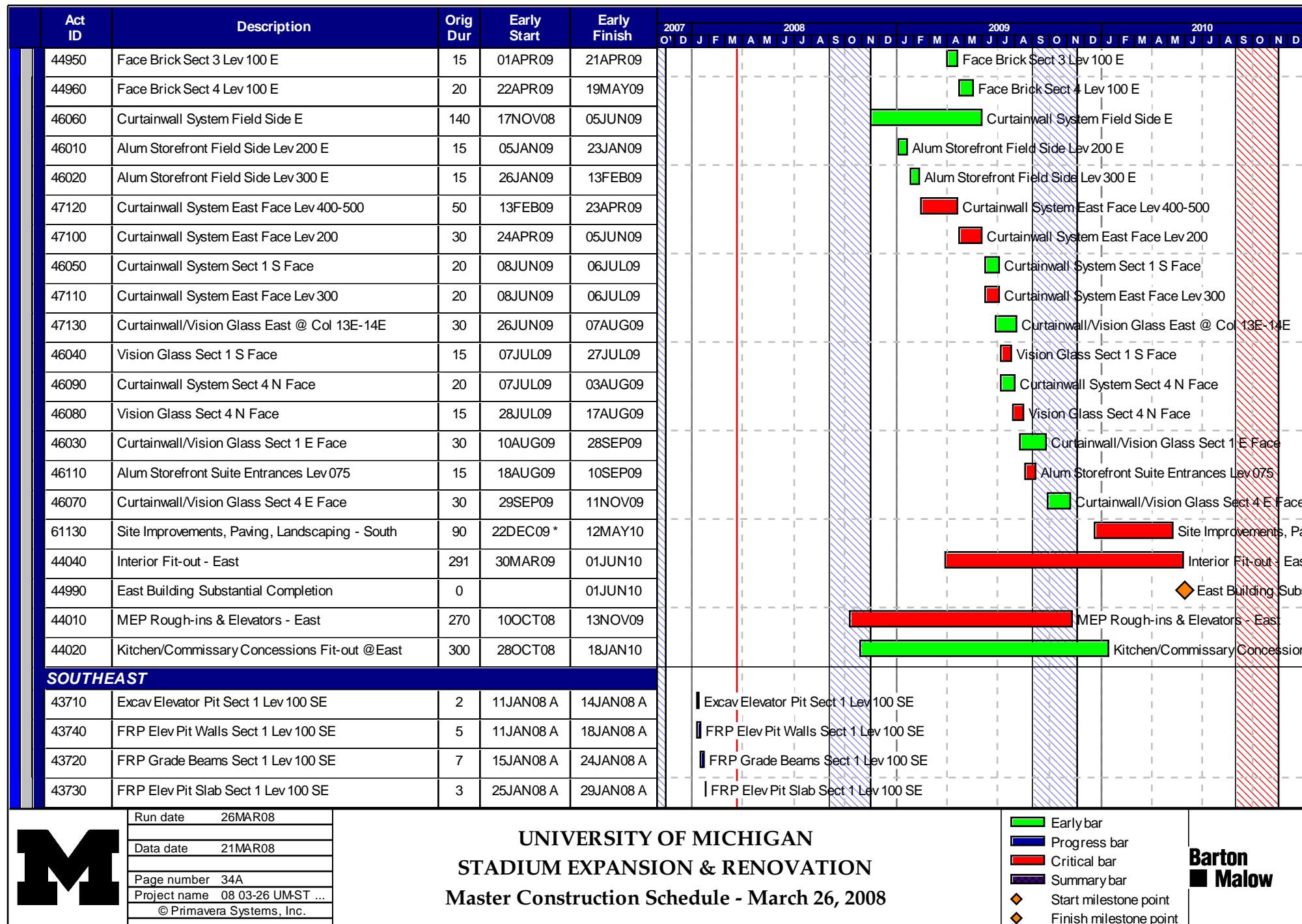


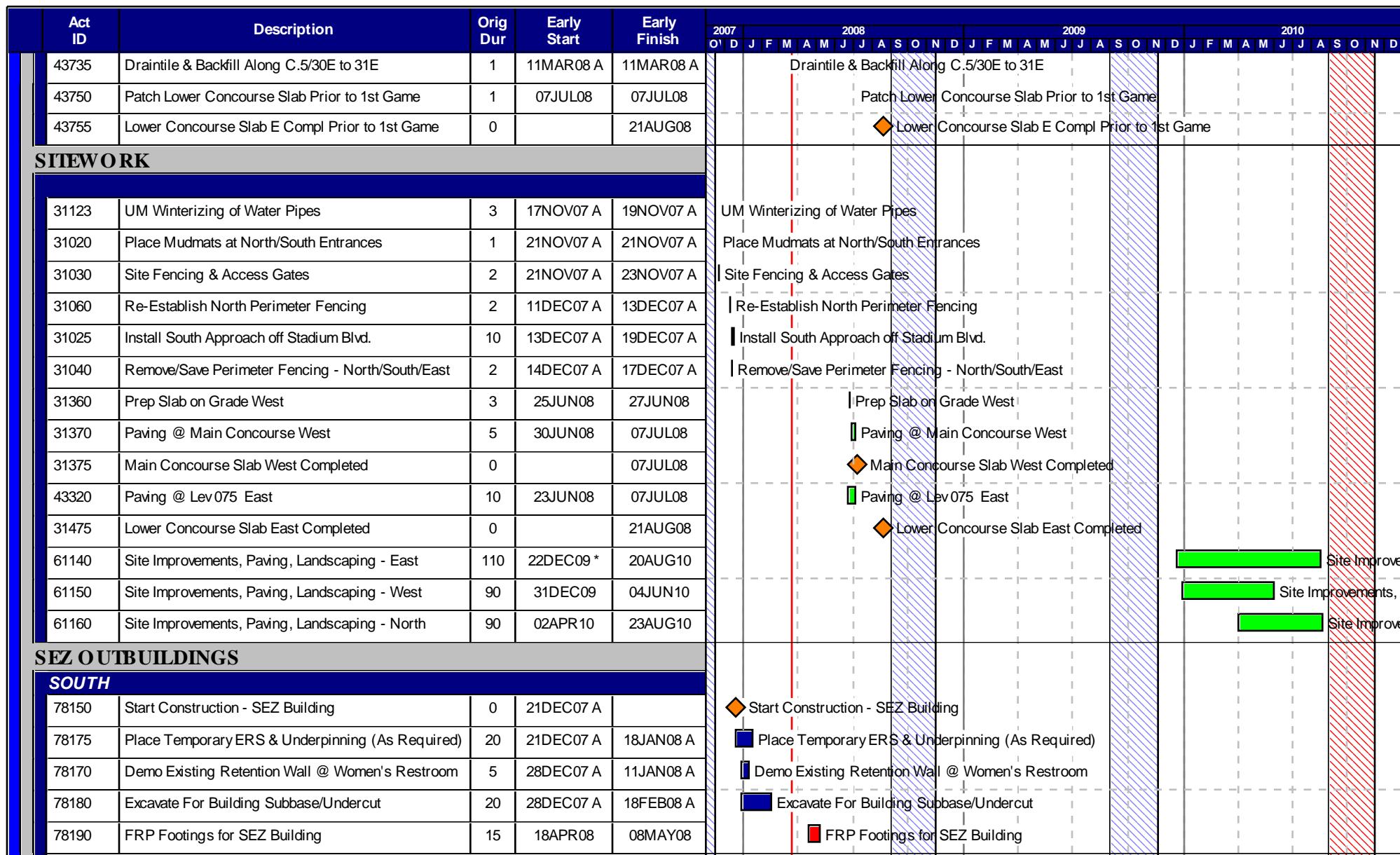
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Master Construction Schedule - March 26, 2008**

- Early bar
- Progress bar
- Critical bar
- Summary bar
- ◆ Start milestone point
- ◆ Finish milestone point





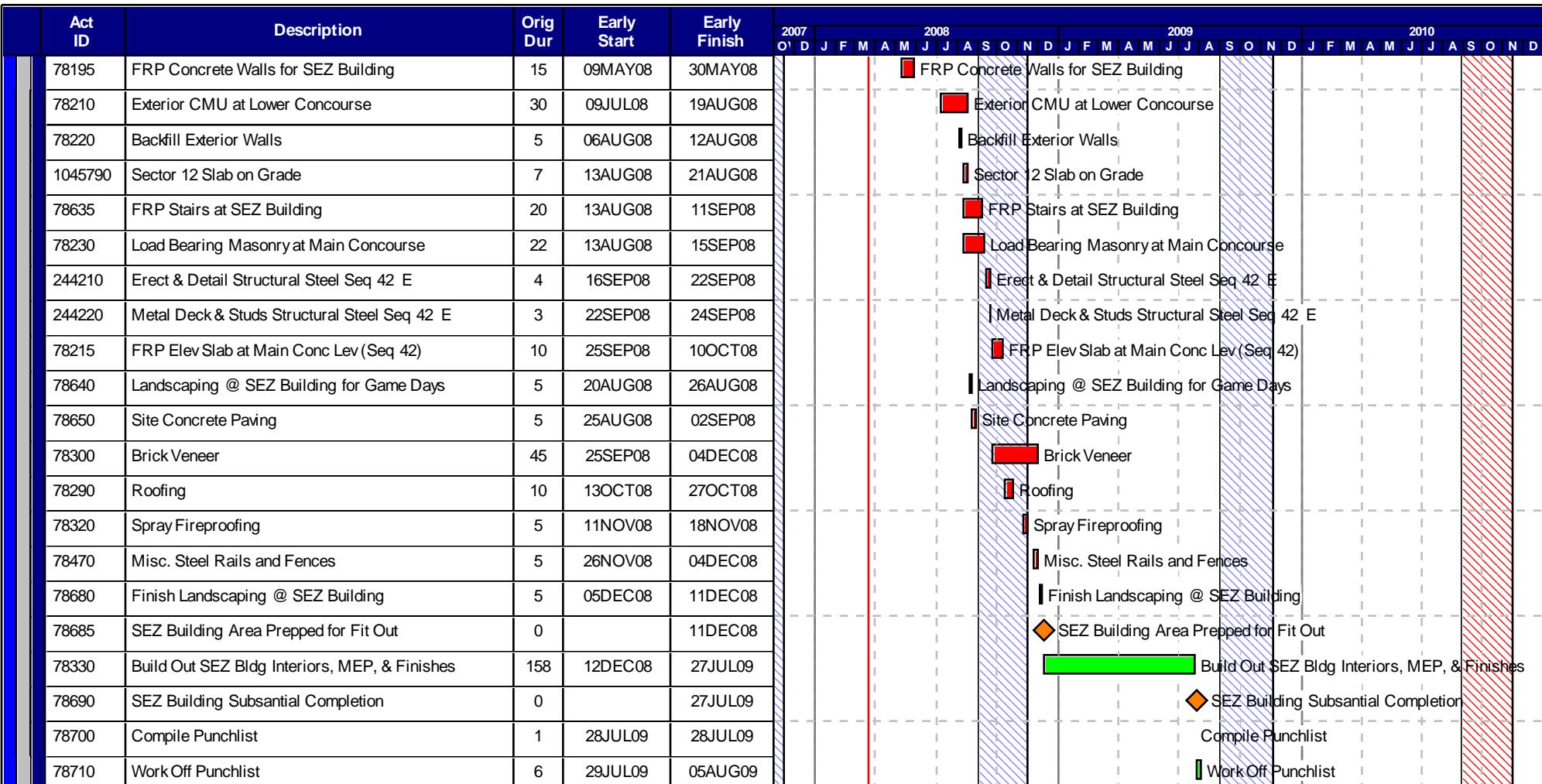


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Master Construction Schedule - March 26, 2008**

- [Green Bar] Early bar
- [Blue Bar] Progress bar
- [Red Bar] Critical bar
- [Purple Bar] Summary bar
- [Orange Diamond] Start milestone point
- [Yellow Diamond] Finish milestone point

