
APPENDIX E

Air Quality

APPENDIX E: AIR QUALITY

This appendix contains information, data and other materials used, collected and/or developed in support of the air quality impact assessment for the SAN Master Plan projects.

Aircraft Activity Levels

Aircraft activity levels (aircraft arrival and departure operations) and aircraft/engine assignments were determined based on SIMMOD analysis and EDMS assignments. The aircraft fleet/operational level data used in the air quality analysis are consistent with those used to assess noise impacts with the proposed alternatives. **Tables E-1, E-2, and E-3** contain the listing of annual aircraft operations (by aircraft and engine) for the Existing Conditions (2005), future No Action Alternative, West Terminal Alternative (Preferred Alternative), and the East Terminal Alternative for 2015 and 2020 used in the air quality assessment.

Table E-1 Annual Aircraft Operations for Existing (2005) and No Action Alternative Conditions

Aircraft	Engine	Type	2005	2015	2020
560 CITATION V	JT15D-5 (A & B)	GA	365	-	-
A300-600F	CF6-80C2A5	Cargo	1460	365	730
A319	CFM56-5A4	AC	-	730	365
A319	CFM56-5B6/P	AC	2190	1460	2555
A319	V2522-A5	AC	1460	1825	2190
A320-200	CFM56-5A1	AC	2190	1825	3650
A320-200	CFM56-5B4/2	AC	1095	1095	1095
A320-200	V2527-A5	AC	4380	13140	13140
A321	CFM56-5B3/P	AC	1095	-	730
A340-300	CFM56-5B1/2P	AC	-	365	730
B727-200F	JT8D-15	Cargo	1460	730	730
B737-300	CFM56-3B1	AC	1788	13140	6570
B737-300	CFM56-3C1	AC	1095	1825	365
B737-400	CFM56-3C1	AC	2555	1460	1460
B737-500	CFM56-3B1	AC	365	4745	4745
B737-500	CFM56-3C1	AC	365	-	-
B737-700	CFM56-7B22	AC	1533	23725	33580
B737-700	CFM56-7B24	AC	365	1095	730
B737-800	CFM56-7B26	AC	3650	6570	8395
B737-900	CFM56-7B26	AC	730	730	365
B757-200	PW2037	AC	3650	2920	4015
B757-200	RB211-535E4	AC	1460	365	365
B757-200	RB211-535E4B	AC	2190	1825	1460
B757-200F	RB211-535E4	Cargo	365	365	-
B767-200	CF6-80A	Cargo	365	730	730
B767-200	CF6-80A2	AC	-	-	-
B767-300	CF6-80A2	AC	1825	730	730
B767-300ER	CF6-80C2B6	AC	-	365	730
B767-300ER	PW4060	AC	365	730	730
B767-300F	CF6-80C2B7F	Cargo	-	365	730
B767-400ER	CF6-80C2B7F	AC	-	-	365
B777-200	PW4077	AC	-	1460	1460
B777-200	TRENT 892	AC	-	365	730
BAE 125-700	TFE731-3	GA	365	2190	2190
BEECH KING AIR 200	PT6A-41	GA	730	2190	2190
BEECHJET 400	JT15D-5 (A & B)	GA	365	-	-
CANADAIR REG-100	CF34-3A1	COMM	1095	-	-
CANADAIR REG-100	CF34-3B	COMM	2190	7300	7665
CANADAIR REG-700	CF34-8C1	COMM	-	4380	4015
CANADAIR REG-900	CF34-8C5	COMM	2555	-	-
CITATION I	JT15D-1A & 1B	GA	365	-	-
CITATION	PW308C	GA	365	-	-
CITATION VII	TFE731-3	GA	365	-	-
CL600	CF34-3B	GA	-	1460	1460
COMANCHE	TIO-540-J2B2	GA	365	-	-
DC10-10F	CF6-50C2	Cargo	-	730	730
EMB-120	PW118	COMM	6570	-	-
EMBRAER ERJ	AE3007A1/3	COMM	3285	8030	8030
EMBRAER ERJ 170	CF34-8E5A1	COMM	-	5475	5840
FALCON 20	CF700-2D	MILITAR	-	365	365
GULFSTREAM IV	TAY MK611-8	GA	730	3285	3285
GULFSTREAM V	BR700-710A1-10	GA	365	-	-
IAI WESTWIND	TFE731-3	GA	365	-	-
JETSTAR	TFE731-3	GA	365	-	-
LEARJET 35/36	TFE731-2-2B	GA	730	-	-
MD-11-11	PW4460	AC	-	365	365
MD-11-11F	CF6-80C2D1F	Cargo	-	-	365
MD-80-83	JT8D-219	AC	7665	8395	8030
MD-90-30	V2525-D5	AC	-	1460	1460

Source: HNTB; KB Environmental Sciences, Inc. 2007.

Activity Description	Orig Dur	Early Start	Early Finish	2006												2007												2008												2009												2010											

1 San Diego International Airport Program Study

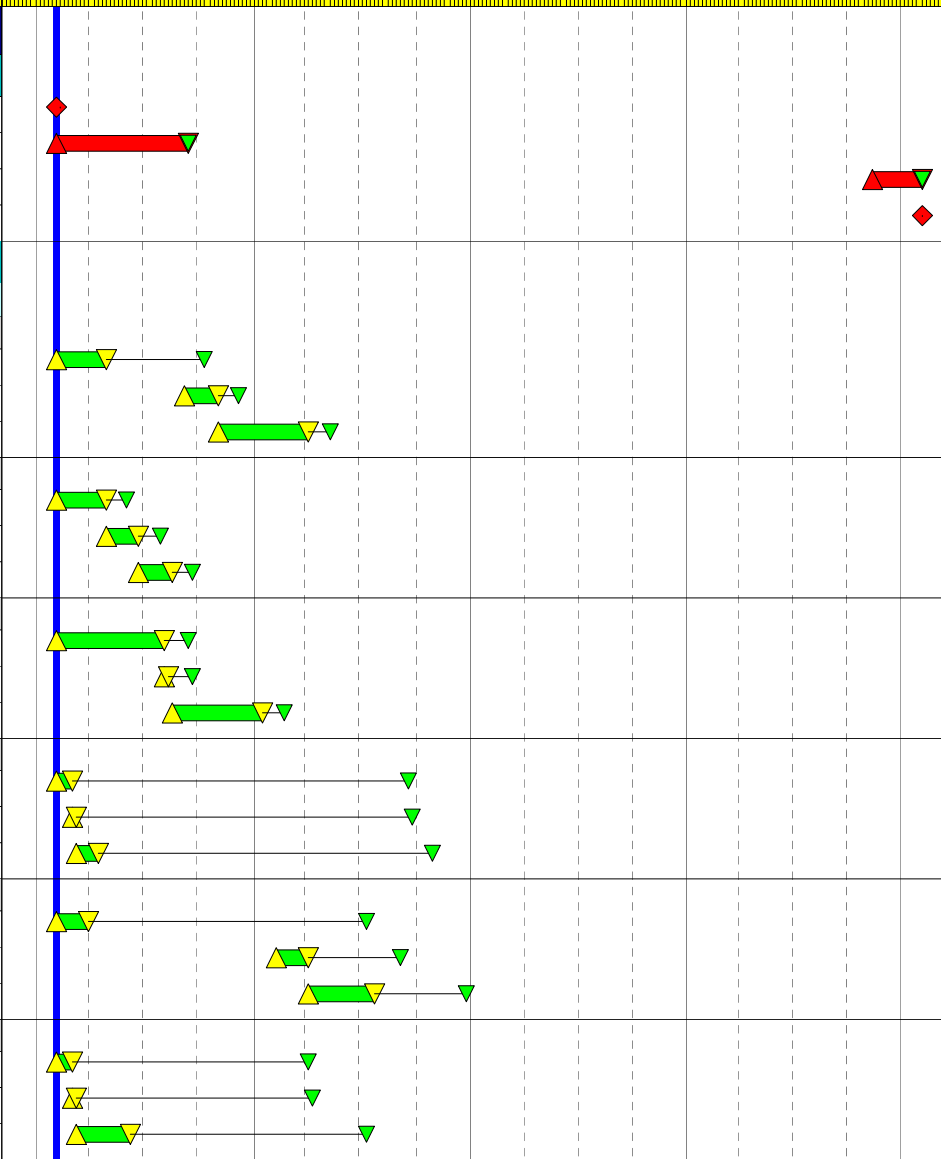
1.01 Overall Program

Begin Program	0	30JAN06	
Bridging Documents	32	30JAN06	10SEP06
Comissioning	12	09NOV09	31JAN10
End Program	0		31JAN10

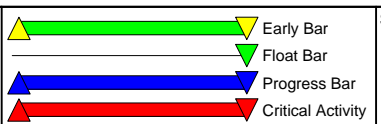
1.02 Southern Project

1.02.01 Enabling Projects:

1.02.01.01 Site Remediation Package			
Design of Site Remediation	12	30JAN06	23APR06
Bid and Award	8	04SEP06	29OCT06
Construction of Remediation Package	22	30OCT06	01APR07
1.02.01.02 McCain Interchange Improvement Package			
Design of McCain Intersection	12	30JAN06	23APR06
Bid and Award	8	24APR06	18JUN06
Construction of McCain Intersection	8	19JUN06	13AUG06
1.02.01.03 Airside Utility Relocation Package			
Design of Utility Relocation Package	26	30JAN06	30JUL06
Issuance of Task Order	1	31JUL06	06AUG06
Construction of Utility Relocation Package	22	14AUG06	14JAN07
1.02.01.04 Relocation of USO and Offices			
Design of USO Relocation	4	30JAN06	26FEB06
Issuance of Task Order	1	27FEB06	05MAR06
Construction of USO and Office Relocations	5	06MAR06	09APR06
1.02.01.05 Temporary Parking and Roadways			
Design of Temp Parking and Roads	8	30JAN06	26MAR06
Bid and Award	8	05FEB07	01APR07
Construction of Temporary Roads and Parking	16	02APR07	22JUL07
1.02.01.06 Relocation of FAA facilities emergency generator			
Design of FAA Emerg Gen Relocation	4	30JAN06	26FEB06
Issuance of Task Order	1	27FEB06	05MAR06
Relocation of FAA Emergency Generator	13	06MAR06	04JUN06



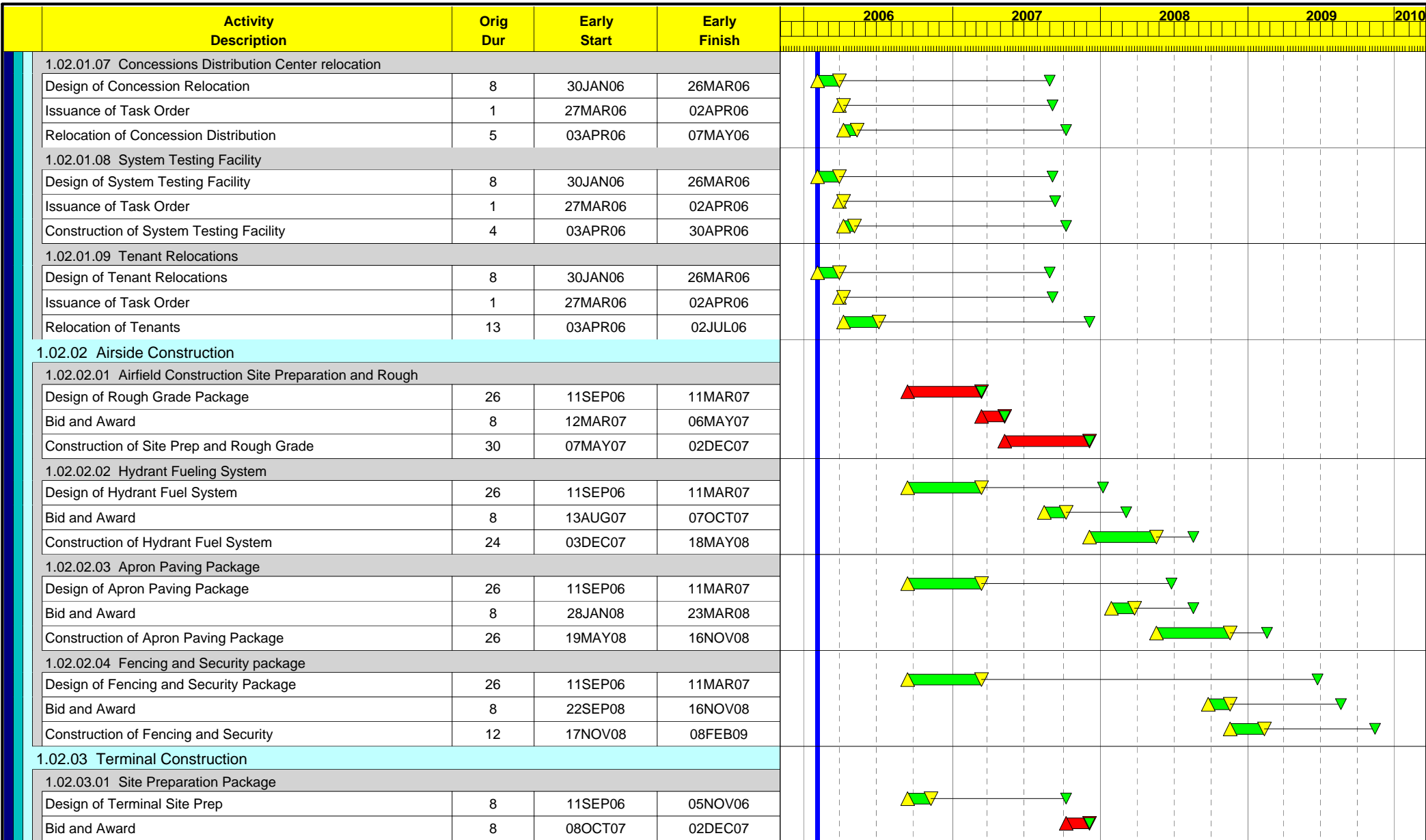
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Data Date	30JAN06		Progress Bar
Run Date	20FEB06 12:29		Critical Activity



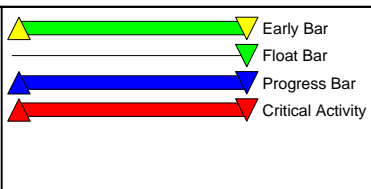
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Sheet 1 of 7

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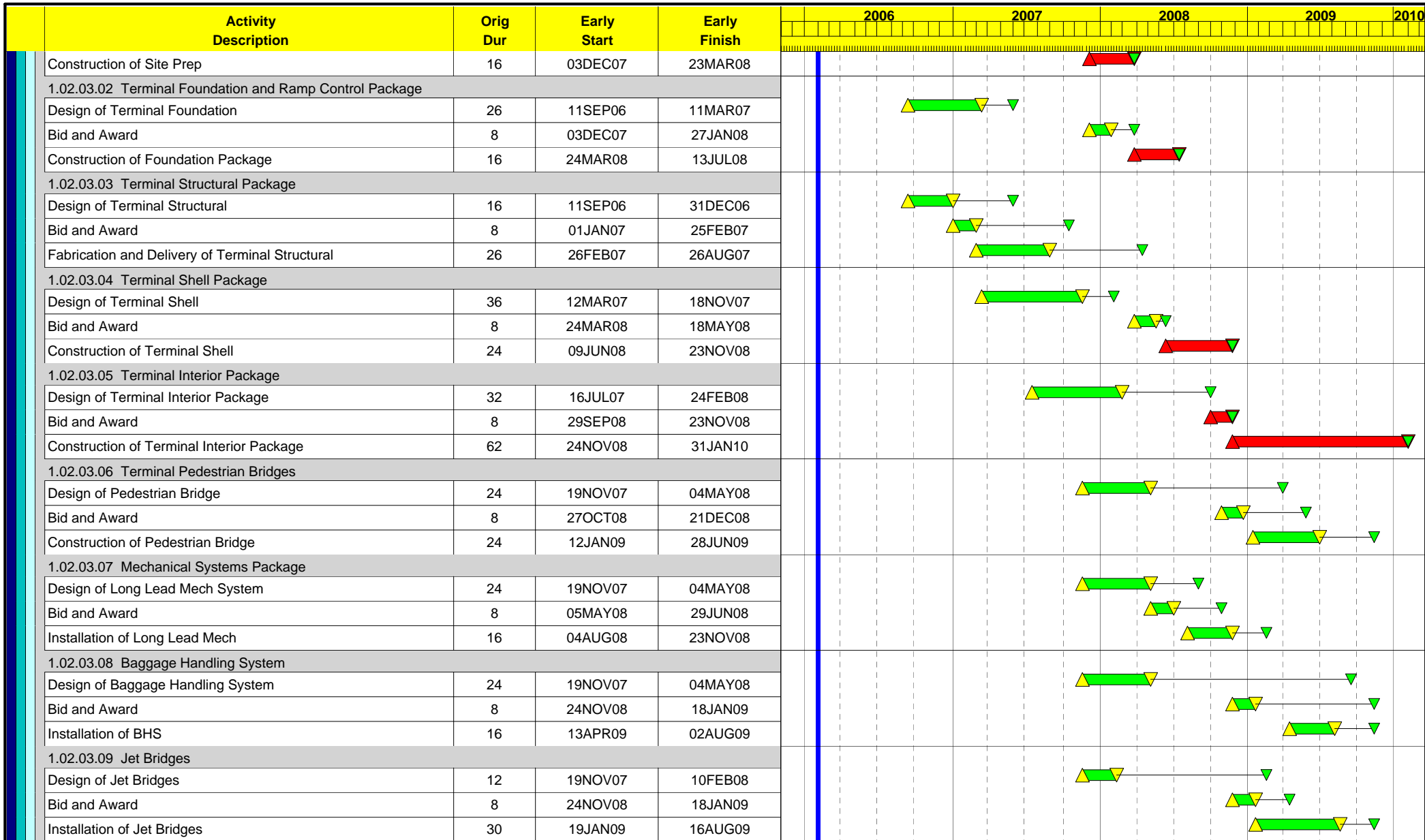
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 Data Date 30JAN06
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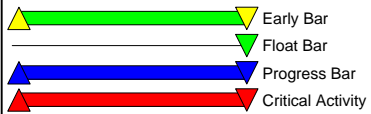
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Sheet 2 of 7

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 Finish Date 31JAN10
 Data Date 30JAN06
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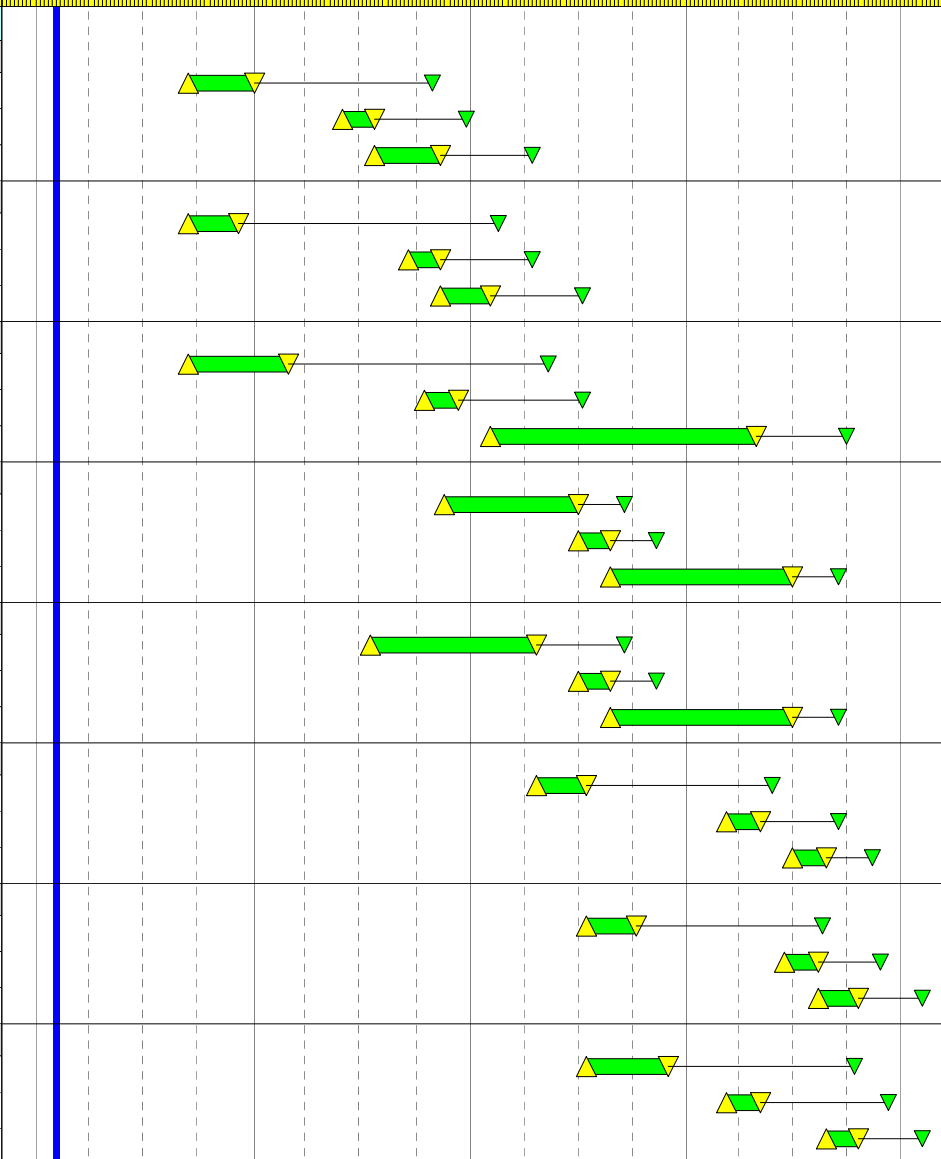
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Sheet 3 of 7

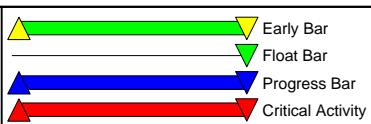
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Activity Description	Orig Dur	Early Start	Early Finish	2006												2007												2008												2009												2010											

1.02.04 Landside Construction			
1.02.04.01 Demolition of the Baggage Handling Bldg and Ped			
Design of Landside Demolition Package	16	11SEP06	31DEC06
Bid and Award	8	28MAY07	22JUL07
Demolition of USO and BHS Building	16	23JUL07	11NOV07
1.02.04.02 Site Preparation			
Design of Landside Site Preparation	12	11SEP06	03DEC06
Bid and Award	8	17SEP07	11NOV07
Construction of Landside Site Prep	12	12NOV07	03FEB08
1.02.04.03 Parking Garage			
Design of Parking Garage	24	11SEP06	25FEB07
Bid and Award	8	15OCT07	09DEC07
Construction of Parking Garage	64	04FEB08	26APR09
1.02.04.04 Elevated Roadways			
Design of Elevated Roadways	32	19NOV07	29JUN08
Bid and Award	8	30JUN08	24AUG08
Construction of Elevated Roadways	44	25AUG08	28JUN09
1.02.04.05 Civil Roadway Project			
Design of Civil Roadway Package	40	16JUL07	20APR08
Bid and Award	8	30JUN08	24AUG08
Construction of Civil Roadway Project	44	25AUG08	28JUN09
1.02.04.06 New Surface Parking Lot / Ground Transportation			
Design of Surface Parking Lot	12	21APR08	13JUL08
Bid and Award	8	09MAR09	03MAY09
Construction of Surface Parking Lot	8	29JUN09	23AUG09
1.02.04.07 Streetscape and Landscape Package			
Design of Streetscape and Landscape	12	14JUL08	05OCT08
Bid and Award	8	15JUN09	09AUG09
Construction of Streetscape and Landscape	10	10AUG09	18OCT09
1.02.04.08 Signage Package			
Design of Signing Package	20	14JUL08	30NOV08
Bid and Award	8	09MAR09	03MAY09
Construction of Signage Package	8	24AUG09	18OCT09



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Finish Date	31JAN10
Data Date	30JAN06
Run Date	20FEB06 12:29



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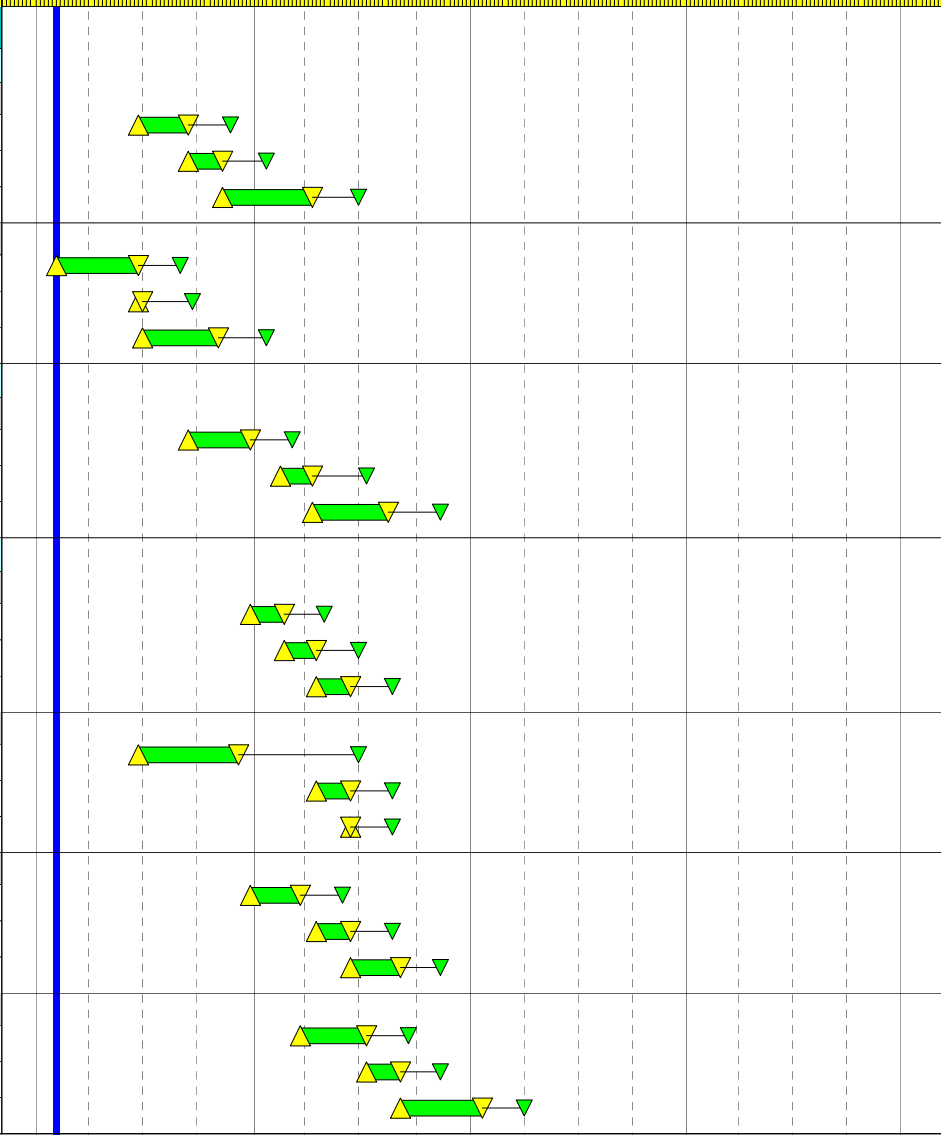
Sheet 4 of 7

Date	Revision	Checked	Approved

Activity Description	Orig Dur	Early Start	Early Finish	2006												2007												2008												2009												2010											

1.03 North Projects

1.03.01 Enabling Projects			
1.03.01.01 Site Remediation			
Design of Site Remediation	12	19JUN06	10SEP06
Bid and Award	8	11SEP06	05NOV06
Construction of Site Remediation	22	06NOV06	08APR07
1.03.01.02 Utility Relocation			
Design of Utility Relocation	20	30JAN06	18JUN06
Issue Task Order	1	19JUN06	25JUN06
Construction of Utility Relocation Package	18	26JUN06	29OCT06
1.03.02 Ground Transportation			
1.03.02.01 Ground Transportation			
Design of Ground Transportation	15	11SEP06	24DEC06
Bid and Award	8	12FEB07	08APR07
Construction of Ground Transportation	18	09APR07	12AUG07
1.03.03 Airport Support			
1.03.03.01 Site Preparation			
Design of Site Preparation	8	25DEC06	18FEB07
Bid and Award	8	19FEB07	15APR07
Construction of Site Preparation	8	16APR07	10JUN07
1.03.03.02 Hydrant Fuel & Misc. Utilities			
Design of Hydrant Fuel System & Misc Utilities	24	19JUN06	03DEC06
Bid and Award	8	16APR07	10JUN07
Construction Hydrant Fuel System & Misc Utility	0	11JUN07	10JUN07
1.03.03.03 Building Foundation			
Design of Building Foundation	12	25DEC06	18MAR07
Bid and Award	8	16APR07	10JUN07
Construction of Building Foundation	12	11JUN07	02SEP07
1.03.03.04 General Aviation Building			
Design of General Aviation Building	16	19MAR07	08JUL07
Bid and Award	8	09JUL07	02SEP07
Construction of General Aviation Building	20	03SEP07	20JAN08



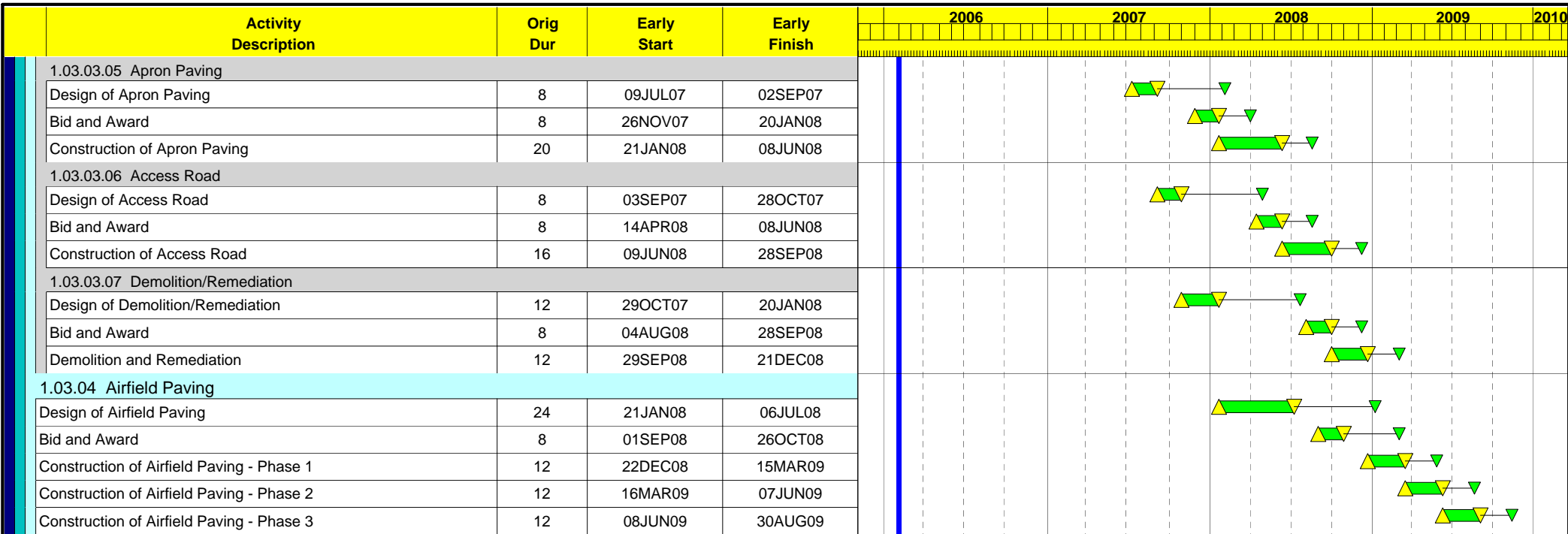
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Sheet 5 of 7

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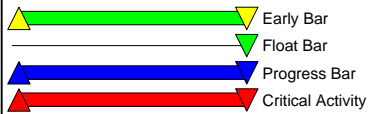


Row	Group Name	2006	2007	2008	2009	2010
1	Asphalt Crew		1	4		4
2	Baggage Handling Crew					16
3	Contractor Utility Crew				4	
4	Demolition Crew			16	4	
5	Drainage Crew			36	4	4
6	Electrical Utility Crew	38	2			
7	Electrical Crew	1	16			
8	Exterior Building Crew		16		22	
9	Fence and Security Crew				7	5
10	Foundation Crew			12	16	
11	Garage Crew				48	16
12	Gas Utility Crew	38	2			
13	Grading Crew		51	15		
14	Hydrant Crew		5	19		
15	Interior Renovation Crew	24		6		52
16	Jet Bridge Crew					4
17	Landscape Crew					10

Start Date	14NOV05		Early Bar	SDIA	HNTB Corporation	Sheet 6 of 7	Date	Revision	Checked	Approved
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Data Date	30JAN06		Progress Bar							
Run Date	20FEB06 12:29		Critical Activity							
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Row	Group Name					
18	Mechanical Systems Crew					16
19	PCC Paving Crew					48
20	Roadway Modification Crew					19
21	Relocation Team			8		
22	Remediation Crew			17	27	8
23	Roadway Construction Crew			8	34	16
24	Roadway Construction Crew					
25	Sewer Utility Crew			38	2	
26	Signing Crew					
27	Structural Erection Crew				4	16
28	Streetscape Crew					
29	Structural Crew					19
				2006	2007	2008
						2009
						2010

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