ASSOCIATED SCHOOLS OF CONSTRUCTION
ROCKY MOUNTAIN REGION
REGION VI
AK, AZ, CO, ID, MT, NV, NM, UT, WY
FAR WEST REGION
REGION VII
CA, HI, OR, WA

National Preconstruction Problem
February 12-14, 2009

SOLUTION SET

Phase II: Request for Proposals

New Office Building Project
Los Angeles, CA

Problem Sponsor:

PCL Construction Services, Inc.
700 N. Central Avenue, Suite 700
Glendale, CA 91203

INTENTIONAL BLANK PAGE

CONTRACT COMPARISON MATRIX - TYPES TO CONSIDER FOR RECOMMENDATION

IV.a.i - Each of these contract forms offer advantages and/or disadvantages to your contemplated relationship with the Owner. Which do you recommend and why?			
Contract Type	**Description**	**Pros**	**Cons**
A101™–2007 (formerly A101™–1997)	**Standard Form of Agreement Between Owner and Contractor where the Basis of Payment is a Stipulated Sum**	Gives Owner fixed price certainty from the beginning.	When Contractor comes in early in design, there are many unknowns which require significant contingencies in order to guarantee price, keeping budget up. As these issues are resolved, Owner does not benefit from resolution, so is not incentivized to participate. Since a productive preconstruction effort is anticipated, this document does not create the right framework to fully benefit the project.
A101™CMa–1992	**Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum, Construction Manager-Adviser Edition**	Unsophisticated (or understaffed) Owner gets a CM to advise and manage GC, and to act as its representative throughout construction.	Adds an interface between Owner and Contractor, usually adversarial, as CM must question/beat up on Contractor to "earn" its fee. If Owner is reasonably savvy, and has trust & confidence in Contractor, an unnecessary and unproductive additional layer. This Owner is sophisticated enough to not require this service, and should develop a direct construction relationship with its Contractor.

CONTRACT COMPARISON MATRIX - TYPES TO CONSIDER FOR RECOMMENDATION

Contract Type	Description	Pros	Cons
A102™–2007 (formerly A111™–1997)	**Standard Form of Agreement Between Owner and Contractor Where the Basis of Payment is the Cost of the Work Plus a Fee with a Guaranteed Maximum Price (GMP)**	Gives Owner early guaranteed price for development/financing decisions. Allows contingent solutions to be explored and resolved, and allows Owner & Contractor shared savings benefit from these solutions. Owner will only pay actual Cost of Work plus overhead & fees, up to the GMP. The best choice for this project's challenges.	Requires more budget tracking, both in precon and during construction, as actual costs are reported in detail. More complex administration.
A105™–2007 (formerly A105™–1993 and A205™–1993)	**Standard Form of Agreement Between Owner and Contractor for a Residential or Small Commercial Project**	A simplified form which integrates general conditions, suitable for small projects with stipulated sum (fixed price) and relatively short duration.	Not appropriate for larger, more complex projects, or those of longer duration. Not inherently integrated with the other AIA documents which would be appropriate for this project.
A141™–2004 (replaces A191™-1996)	**Agreement Between Owner and Design-Builder**	Intended as an integrated document when Owner has selected Design-Build as a delivery method, does not link w/A201 General Conditions.	Although Design-Build is often an attractive solution, this Owner has elected to directly engage the design team; this is the wrong document for the selected delivery method.

SOLUTION

3a.) Budget-Preconstruction and Construction Services Agreement

Should your firm be selected, you will be expected to execute the attached Preconstruction and Construction Services Agreement. It will serve as an interim agreement to authorize the start of preconstruction services and memorialize agreed business deal points (commercial terms) until superseded by an executed contract.

Use the services contemplated in this Preconstruction and Construction Services Agreement as your guide in preparing your preconstruction budget in exercise 3c.

After you have completed all the budget exercises in section 3, complete the Preconstruction and Construction Services Agreement provided herein, with your proposed business terms.

Check the submitted Preconstruction and Construction Services Agreement for the following items.

- Page 1, did the Team insert the name of the Contractor?
- Item B.1, did the Team insert the AIA _____ Form of Agreement?
- Item B.4, did the Team insert the proposed Contractor Fee?
- Item B.4, did the Team insert the shared of savings split?
- Item B.11, did the Team insert the name of the Contractor's representative?
- Page 3, did the Team sign the document and insert By, Name & Title information?
- Is Exhibit A, Itemized Preconstruction Budget Attached?
- Is Exhibit B, General Conditions Expense Attached?

INTENTIONAL BLANK PAGE

Preconstruction & Construction Services Agreement

This Preconstruction and Construction Services Agreement (Agreement) is made and entered into this 14th day of February, 2009, between *PRIHD Development Partnership* (Owner) and _____ (Contractor), with reference to the following facts:

I. Owner is defined herein as *PRIHD Development Partnership* but will include any successors or assigns of *PRIHD Development Partnership* including any LLC or other entity to whom the property or the project is transferred.
II. Owner owns a parcel of real property in California (Property)
III. Owner contemplates developing *The Fox Office Building Project* on the Property (Project) and desires to employ Contractor to provide preconstruction and construction services.

Now therefore in consideration of the mutual covenants and agreements set forth herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Owner and Contractor agree as follows:

A. Preconstruction Services: Preconstruction services to be provided by Contractor include, but are not limited to, cost estimating, value engineering, scheduling, construction phasing, constructibility review, weekly design review meetings with the Owner, input from key subcontractors as to building systems, and means & methods of construction. Preconstruction is expected to last six months. More specifically, Contractor will:

1. Provide scheduling and estimating services:

    a. Building on budget submitted with the RFP, update conceptual estimate from preliminary plans based on historical costs adjusted to location and time as a control budget. This control budget will be reviewed by the project team, modified as required, and developed into a mutually agreeable budget itemized into cost systems for each component.

    b. Prepare preliminary estimates for each phase of the work as information becomes available (once at completion of DDs, once at 50% CDs). The control budget will be revised and updated accordingly.

    c. Provide value engineering input by reviewing conceptual and working drawings during their preparation focusing on construction methods and details. Cost analyses of design options will be carried out and recommendations made for alternatives to be included in the bid packages.

    d. Evaluate market conditions and schedule bid calls to obtain the most competitive prices commensurate with overall project scheduling.

    e. Prepare cash flow projections and update regularly.

    f. Prepare a preliminary schedule following initial review of the project. This schedule will contain activities integrating the whole team to include

entitlements, permits, approvals, design development, bid packages and construction. Schedule will be provided for Owner's approval in conjunction with the preliminary drawings and conceptual estimate.

g. Update and revise the approved master schedule as necessary to coordinate the ongoing activities of all members of the project team, with major updates/increase in detail in conjunction with the DD and 50%CD budget updates.

h. Monitor progress on both design and other preconstruction activities with regular reports indicating the responsibility for any corrective action.

i. Provide input as required to Owner's entitlement process which is anticipated to conclude in July 2009.

2. Provide constructibility review of the bid documents. This review will verify and help identify any problems in the following areas:

   a. Reasonableness of work sequence, interface relationships, and periods of performance.

   b. Adequacy of lead times for material and equipment procurement.

   c. Accuracy of job-site description and depiction of conditions.

   d. Degree of site restrictions and adequacy of access, work areas and disposal sites.

   e. Availability of utility connections for construction.

   f. Consideration of the impact of adverse weather on the CPM schedule and milestone operations.

   g. Impact upon and plans for pedestrian and vehicular traffic and ongoing operations.

3. Work with Owner to update the preliminary (RFP) Site Plan that will provide additional logistics guidelines and detail. The Site Plan will include:

   a. Location of temporary buildings, lunchrooms, etc.

   b. Location of temporary gas lines and power services.

   c. Assist entitlement team in utility company negotiations with respect to permanent utility relocations.

   d. Material storage areas.

   e. Access roads and gates.

   f. Temporary fencing and gates.

   g. Location and boom radius of crane, personnel, personnel/material hoist, saws, concrete pumps, and all other construction equipment.

   h. Delivery and unloading areas (concrete, precast, rebar, structural steel, etc.) including traffic flow.

i. Prefab and precasting areas (if required).

j. Subcontractors' offices and storage areas.

k. Consultant's office, testing labs, etc.

l. Footprint of the building, existing street, overhead lines, fire hydrant, vaults, traffic signals, bus stops, other buildings, utilities (e.g. gas, water, sewer) and items to be protected (e.g. trees).

m. Worker access gates.

n. Worker parking during construction.

o. Safety/first aid locations including emergency meeting place and safety bulletin board.

p. Hazardous Storage i.e. gasoline, oxygen, acetylene, PCB's, paint, etc.

q. Outline of excavation/shoring.

r. Property lines.

s. Special Conditions (phased areas, prohibited areas, environmental issues, dewatering, etc).

t. Emergency shutoffs.

u. Public protection, safety, and, if impacted, flow (pedestrian/vehicle) around project.

4. Compensation: Owner shall pay Contractor for Preconstruction Services as follows:

   Preconstruction budget is as itemized in Exhibit A. Is Exhibit A attached?

B. Construction Services: The parties to this agreement will enter into a Contract for Construction Services which will incorporate and supercede this Agreement. This Contract will be based on the following terms:

1.	Form of Contract:	AIA A102-2007 Standard Form of Agreement Between Owner and Contractor, modified as mutually agreed.
2.	Documents used to establish final price:	Building Department submittal. Are Exhibits B attached?
3.	General Conditions Expense:	As itemized in project budget Exhibits B, and as further mutually agreed; included in GMP.
4.	Contractor Fee	Range: 3% to 5% 3.3 %, included in GMP.
5.	Project Contingency - Share of	Split 75% / 25% Owner-Contractor Range 25/75 to 75/25

Savings:

6. Payment & Performance Bond: Excluded, but can be furnished.
7. Preconstruction Services: As detailed in paragraph 4 above.
8. Payment: Progress billings submitted by the 25th of the month will be paid by the 20th following.
9. Retention: Ten percent (10%), with early release for mutually agreed sub-trades.
10. Owner's representative: Jeff Miller
11. Contractor's representative: _____

C. Construction Management Services: Prior to Owner's issuance of a Notice to Proceed with Construction, it may elect to engage Contractor to provide Construction Management Services for hazardous material mitigation & removal, building demolition, and site clearing. Costs for these services are not included in the scope of this Preconstruction & Construction Services Agreement.

D. No Partnership: This Agreement shall not be construed as creating a partnership or joint venture between Owner and Contractor, or between them and any third party, nor cause either of them to be responsible in any manner for the other's or any third party's debts or obligations.

E. Assignment: Neither this Agreement nor any interest herein may be assigned by either party without the prior written consent of the other. Should Property be sold, this Agreement shall survive and be assigned to buyer as a condition of the sale.

IN WITNESS WHEREOF, the parties have executed this Preconstruction Services Agreement to be effective as of the Day and year first above written.

Owner	Contractor
PRIHD Development Partnership	_____
By: _____	By: _____
Name: _____	Name: _____
Title: _____	Title: _____

3b.) Budget-Conceptual Estimate Summary

The Owner has requested a budget submittal as part of your proposal. A budget summary worksheet is attached, with several missing line items. Work from subsequent section of section 3 budget exercises will need to be completed and the information transferred to this Conceptual Estimate Summary. You will also need information from your proposed construction schedule in section 4 to complete many of these exercises.

- Complete exercise 3c, to determine the input value for the Preconstruction Services line item in the Conceptual Estimate Summary (CES).
- Complete exercise 3d, to determine the input values for the Construction General Expense (both staff and Overhead/Equipment) line items in the Conceptual Estimate Summary (CES).
- Complete exercise 3e, to determine the input value for the Concrete Slab on Metal Deck line item in the Conceptual Estimate Summary (CES).
- Complete exercise 3f, to determine the input value for the Structural Steel line item in the Conceptual Estimate Summary (CES).
- Complete exercise 3g, to determine the input value for the Bldg Electrical line item in the Conceptual Estimate Summary (CES).
- Calculate the Total Cost line item with the above inputs.
- Insert your Firm's proposed Fee % and amount.
- Calculate the Total Bid.

INTENTIONAL BLANK PAGE

YOUR FIRM:S NAME
LOCATION

CONCEPTUAL ESTIMATE SUMMARY

Owner: PRIHD
Project: FOX OFFICE BUILDING
Location: Los Angeles, CA

Designer: Langdon Wilson
Area: 523,244 SF

Description	Quantity	UoM	Unit Price	Cost	Remarks
DIRECT COSTS					
PRECONSTRUCTION SERVICES	1.0	LS		230,302	Answer may vary depending on staff
SITEWORK	1.0	LS		5,998,256	
SHOTCRETE WALLS	1.0	LS		666,541	
CONCRETE	1.0	LS		7,899,237	
CONCRETE SLAB ON METAL DECK	1.0	LS		926,595	
CONCRETE REINFORCING	1.0	LS		2,861,568	
MASONRY	1.0	LS		280,356	
STRUCTURAL STEEL	1.0	LS		3,221,357	
METAL DECK & MISC METALS	1.0	LS		1,778,223	
WOOD & PLASTIC	1.0	LS		104,462	
THERMAL/MOISTURE PROTECTION	1.0	LS		998,261	
DOORS & WINDOWS	1.0	LS		3,606,336	
FINISHES	1.0	LS		3,872,241	
SPECIALTIES	1.0	LS		206,182	
BUILDING EQUIPMENT	1.0	LS		110,837	
CONVEYING SYSTEMS	1.0	LS		1,504,314	
BLDG MECHANICAL	1.0	LS		4,839,189	
BLDG ELECTRICAL	1.0	LS		2,372,177	
SUBCONTRACTOR BONDS	1.0	LS		564,864	
STREET USE IMPACTS	1.0	LS		50,000	
DIRECT COSTS				42,091,298	
GENERAL EXPENSE COSTS					
PROJECT STAFF	1.0	LS		1,396,615	Answer may vary depending on staff
PROJECT OVERHEAD & EQUIP	1.0	LS		664,281	Answer may vary depending on durations
INSURANCE/BONDS/TAXES	1.0	LS		667,481	
GENERAL EXPENSE COSTS				2,728,377	
TOTAL COST				44,819,675	
Fee	3.30%	%		1,479,049	**Answer may vary depending on fee %**
CONTRACTOR'S CONTINGENCY	0.75%	%		336,148	Answer may vary depending above variances
TOTAL BID				46,634,872	**Answer may vary depending on above variances**

INTENTIONAL BLANK PAGE

3c.) Budget-Preconstruction Services

- Review the Preconstruction and Construction Services Agreement in section 3a and prepare an appropriate preconstruction staff budget for inclusion in the Conceptual Estimate Summary where noted.
- Use your preconstruction schedule to determine the timeframes and duration each proposed preconstruction team member will be needed during this phase of the project.
- Remember, preconstruction personnel generally work on multiple projects at one time and generally not charged full time against any given project. Not all personnel are needed for the full duration of the preconstruction schedule.
- Staff billing rates are provided below for your use.

Billing Rates	Per Hour
Preconstruction Manager	110.00
Construction Manager	110.00
Chief Estimator	110.00
Senior Estimator	80.00
Estimator	60.00
Project Superintendent	83.49
Assistant Superintendent	82.15
Project Manager	93.34
Project Engineer	58.91
Office Admin/Accountant	45.00
Safety Coordinator	50.00
QC Supervisor	55.00
Secretary	28.57
Scheduler	60.00

INTENTIONAL BLANK PAGE

FOX OFFICE BUILDING **PRECONSTRUCTION STAFF BUDGET**
Los Angeles, CA EXHIBIT - A

ITEM	QTY		RATE	MH	LABOR	UNIT	MATERIAL	UNIT	EQUIP/SUB	TOTAL
PRECONSTRUCTION STAFFING	7.00	MO								
PROJECT EXECUTIVE		MO	(Home Office Overhead)				0		0	0
PRECONSTRUCTION MANAGER	3.50	MO	110.00	607	66,733		0		0	66,733
CONSTRUCTION MANAGER	1.00	MO	110.00	173	19,067		0		0	19,067
CHIEF ESTIMATOR	1.00	MO	110.00	173	19,067		0		0	19,067
SR ESTIMATOR	1.00	MO	80.00	173	13,867		0		0	13,867
ESTIMATOR	2.00	MO	60.00	347	20,800		0		0	20,800
PROJ SUPERINTENDENT	2.00	MO	83.49	347	28,943		0		0	28,943
PROJECT MANAGER	3.50	MO	93.34	607	56,626		0		0	56,626
SCHEDULER	0.50	MO	60.00	87	5,200		0		0	5,200
(Add to and Expand this Spread Sheet as Necessary)										
TOTAL BUDGET - PRECONSTRUCTION				**2,513**	**230,302**		**-**		**-**	**230,302**

EXTENDED BY _____
CHECKED BY _____

INTENTIONAL BLANK PAGE

3d.) Budget-General Condition

- Prepare an appropriate construction general conditions budget for inclusion in the Conceptual Estimate Summary where noted.
- There are 2 parts for this exercise, part 1 is a budget for staff during the construction phase. Part 2 is a budget for overhead and equipment during the construction phase.
- Use your preliminary construction schedule to determine the timeframes and duration, each proposed construction staff team member and overhead/equipment items, will be needed during this phase of the project.
- Staff billing rates are provided below for your use.

Billing Rates	Per Hour
Preconstruction Manager	110.00
Construction Manager	110.00
Chief Estimator	110.00
Senior Estimator	80.00
Estimator	60.00
Project Superintendent	83.49
Assistant Superintendent	82.15
Project Manager	93.34
Project Engineer	58.91
Office Admin/Accountant	45.00
Safety Coordinator	50.00
QC Supervisor	55.00
Secretary	28.57
Scheduler	60.00

- Overhead and equipment rates are provided on the next page for your use.

ITEM		MATERIAL	SUBCONTRACT	REMARKS
GENERAL EXPENSE EQUIPMENT/OVERHEAD				
MAN/MATERIAL HOIST	MO		21,000.00	Includes install and dismantling costs
FINAL CLEANUP	SF		0.06	
FINAL CLEANUP -SITE	LS		7,500.00	
PICKUP	MO		750.00	Rental
PICKUP	MO	250.00		Fuel & maintenance
FORKLIFT - SMALL	MO		960.00	
MISC EQUIP RENTALS	MO		900.00	
TEMP BLDGS	MO		1,350.00	
TOOL CRIBS	MO		200.00	
TEMP TOILETS/WASH STATIONS	MO		135.00	Assume one per ten workers per month
MOVE IN & OUT	LS	500.00	11,000.00	Includes contractor's labor force
TEMP CONSTRUCTION WATER	MO	450.00		
TEMP WATER - DRINKING	MO	50.00		
PARKING - PCL STAFF ($8/DAY/PERSON)	MO	168.00		Assume each jobsite staff for their duration
PROJECT SIGNS	EA	1,300.00	1,300.00	Includes contractor's labor force
COURIER/EXPRESS SERVICE	MO	500.00		
TELEPHONE INSTALL	LS	2,000.00		
TELEPHONE USAGE	MO	600.00		
COMPUTER LINE CHARGES	MO	150.00		
SITE RADIOS	MO	350.00		
CELL PHONES	MO	150.00		
FAX MACHINE	MO	65.00		
COMPUTER STATIONS	MO	130.00		
OFFICE SUPPLIES	MO	800.00		
OFFICE FURN/EQUIP	LS	7,500.00		
COPIER	MO	650.00		
PHOTOS	MO	125.00		
SAFETY MEETINGS	MO	250.00		
MEDICAL EQUIP/SUPPLIES	LS	125.00		
SAFETY/WEATHER WEAR	LS	2,500.00		
TEMP FIRE PROTECTION	MO	150.00		
WARNING/SAFETY SIGNS	LS	2,000.00		
LOSSES - UNINSURED	LS	5,000.00		
SECURITY - ALARM SYSTEM	MO	95.00		
STAIRS & LADDERS	VLF	20.00	15.00	Includes contractor's labor force
TEMP FENCES	LF		4.19	
HOUSEKEEPING	WK		600.00	Includes contractor's labor force
TRASH REMOVAL	WK	400.00		
OPERATING MANUALS	LS	2,500.00		
AS-BUILT DRAWINGS	LS	2,500.00		
DRAWING REPRODUCTION	LS	10,000.00		
CONSTRUCTION DRAWINGS	EA	350.00		
CASUAL MEALS	MO	400.00		
TO/FROM EXPENSE	MI	0.48		Business mileage expense reimbursement

FOX OFFICE BUILDING **CONSTRUCTION STAFF BUDGET**

Los Angeles, CA EXHIBIT - B

ITEM	QTY		RATE	MH	LABOR	UNIT	MATERIAL	UNIT	EQUIP/SUB	TOTAL
GENERAL EXPENSE STAFFING										
PROJECT EXECUTIVE		MO	(Home Office Overhead)				0		0	0
PROJECT MANAGER	22	MO	93.34	3,813	355,936		0		0	355,936
PROJ SUPERINTENDENT	22	MO	83.49	3,813	318,375		0		0	318,375
ENGINEER-STRUCTURE	21	MO	58.91	3,640	214,432		0		0	214,432
ENGINEER-MEP/FINISHES	21	MO	58.91	3,640	214,432		0		0	214,432
SECRETARY	19	MO	28.57	3,293	94,090		0		0	94,090
CONCRETE SUPERINTENDENT	14	MO	82.15	2,427	199,350		0		0	199,350
(Add to and Expand this Spread Sheet as Necessary)										
TOTAL BUDGET - PROJECT STAFF					**1,396,615**		**-**		**-**	**1,396,615**

EXTENDED BY _____

CHECKED BY _____

INTENTIONAL BLANK PAGE

FOX OFFICE BUILDING **EQUIPMENT & OVERHEAD BUDGET**

Los Angeles, CA EXHIBIT - B

X	ITEM	QTY		RATE	MH	LABOR	UNIT	MATERIAL	UNIT	EQUIP/SUB	TOTAL
	GENERAL EXPENSE EQUIPMENT/OVERHEAD										
	MAN/MATERIAL HOIST	9	MO			0		0	21000	189,000	189,000
	FINAL CLEANUP	534,000	SF			0		0	0.06	32,040	32,040
	FINAL CLEANUP -SITE	1	LS			0		0	7500.00	7,500	7,500
	PICKUP	22	MO			0	250	5,500	750.00	16,500	22,000
	FORKLIFT - SMALL	21	MO			0		0	960.00	20,160	20,160
	MISC EQUIP RENTALS	21	MO			0		0	900.00	18,900	18,900
	TEMP BLDGS	21	MO			0		0	1350.00	28,350	28,350
	TOOL CRIBS	21	MO			0		0	200.00	4,200	4,200
10	TEMP TOILETS/WASH STATIONS	21	MO			0		0	135.00	28,350	28,350
	MOVE IN & OUT	1	LS	55.36	200	11,072	500	500		-	11,572
	TEMP CONSTRUCTION WATER	21	MO			0	450	9,450		-	9,450
	TEMP WATER - DRINKING	21	MO			0	50	1,050		-	1,050
5	PARKING - PCL STAFF ($8/DAY)	21	MO			0	168	17,640		-	17,640
	PROJECT SIGNS	1	EA	55.36	24	1,329	1,300	1,300		-	2,629
	COURIER/EXPRESS SERVICE	21	MO			0	500	10,500		-	10,500
	TEMP POWER INSTALL	W/ELECTRICAL SUB				0		0		-	0
	TEMP POWER CONSUMPTION	BY OWNER				0		0		-	0
	TELEPHONE INSTALL	1	LS			0	2,000	2,000		-	2,000
	TELEPHONE USAGE	21	MO			0	600	12,600		-	12,600
	COMPUTER LINE CHARGES	21	MO			0	150	3,150		-	3,150
	SITE RADIOS	21	MO			0	350	7,350		-	7,350
2	CELL PHONES	21	MO			0	150	6,300		-	6,300
	FAX MACHINE	21	MO			0	65	1,365		-	1,365
	COMPUTER STATIONS	124	MO			0	130	16,120		-	16,120
	OFFICE SUPPLIES	21	MO			0	800	16,800		-	16,800
	OFFICE FURN/EQUIP	1	LS			0	7,500	7,500		-	7,500
	COPIER	21	MO			0	650	13,650		-	13,650
	PHOTOS	21	MO			0	125	2,625		-	2,625
	SAFETY MEETINGS	21	MO			0	250	5,250		-	5,250
	MEDICAL EQUIP/SUPPLIES	21	LS			0	125	2,625		-	2,625
	SAFETY/WEATHER WEAR	1	LS			0	2,500	2,500		-	2,500
	TEMP FIRE PROTECTION	21	MO			0	150	3,150		-	3,150
	WARNING/SAFETY SIGNS	1	LS			0	2,000	2,000		-	2,000
	LOSSES - UNINSURED	1	LS			0	5,000	5,000		-	5,000
	SECURITY - ALARM SYSTEM	21	MO			0	95	1,995		-	1,995
	STAIRS & LADDERS	196	VLF	59.23	49	2,902	20	3,920		-	6,822

X	ITEM	QTY		RATE	MH	LABOR	UNIT	MATERIAL	UNIT	EQUIP/SUB	TOTAL
	TEMP FENCES	1,840	LF			0		0	4.19	7,710	7,710
	HOUSEKEEPING	90	WK	50.73	1,080	54,788		0		-	54,788
	TRASH REMOVAL	90	WK			0	400	36,000		-	36,000
	OPERATING MANUALS	1	LS			0	2,500	2,500		-	2,500
	AS-BUILT DRAWINGS	1	LS			0	2,500	2,500		-	2,500
	DRAWING REPRODUCTION	1	LS			0	10,000	10,000		-	10,000
	CONSTRUCTION DRAWINGS	40	EA			0	350	14,000		-	14,000
	CASUAL MEALS	21	MO			0	400	8,400		-	8,400
	TO/FROM EXPENSE	13,000	MI			0	0.48	6,240		-	6,240
	(Add to and Expand this Spread Sheet as Necessary)										
	TOTAL BUDGET - EQUIPMENT/OVERHEAD					**70,091**		**241,480**		**352,710**	**664,281**

EXTENDED BY _____

CHECKED BY _____

3e.) Budget-Concrete Slab on Metal Deck

- In this exercise your Team will complete the Concrete Slab on Metal Deck estimate for inclusion in the Conceptual Estimate Summary where noted.
- Some information in the Concrete SOMD worksheet has been provided and you may assume this information is correct.
- Using the drawings and other supplemental information provided, obtain quantities for the various line items of work in the SOMD worksheet.
- Apply the appropriate unit rates for labor, material and equipment/subcontract to complete the estimate for this phase of work.
- Drawing References
    - S1.21-TYPICAL STEEL METAL DECK DETAILS
    - S2.06-2ND LEVEL FRAMING PLAN
    - S2.07-3RD LEVEL FRAMING PLAN
    - S2.08-4TH LEVEL FRAMING PLAN
    - S2.09-5TH LEVEL FRAMING PLAN
    - S2.10-ROOF PENTHOUSE FRAMING PLAN
    - S2.11-MECHANICAL PENTHOUSE ROOF FRAMING PLAN

- Other Information
    - Use D-1 steel decking mark everywhere deck is required on typical floors
    - Use D-1 and/or D-4 steel decking mark on the roof as indicated on the drawings
    - Effective SOMD place/finish ranges from 10,000sf to 16,000sf per day.
    - Budget 3000 psi hardrock concrete delivered at $90/cy
    - Budget 3000 psi lightweight concrete delivered at $110/cy
    - Concrete pump is $220/hr + $3.00/cy + $100/day move in/out
    - Assume concrete pump averages 50cy/hr production
    - Based upon your pour cycle, figure the average cost/cy for pumping and use this average rate in the SOMD worksheet for concrete pumping
    - Concrete placing labor crew rate is $52.00/mh, fully burdened
    - Assume a Laborer places 1.67cy of concrete per hour
    - Cement finishing labor crew rate is $55.78/mh, fully burdened
    - Assume a Finisher trowel finishes 1000 sf of slab per day
    - Assume a Finisher broom finishes 1333 sf of slab per day

INTENTIONAL BLANK PAGE

FOX OFFICE BUILDING
Los Angeles, CA

CONCRETE SOMD PRICING

ITEM	QTY		CREW RATE	PROD RATE	LABOR MH	LABOR COST	MATERIAL UNIT	MATERIAL COST	EQUIP/SUB UNIT	EQUIP/SUB COST	TOTAL COST
SLAB ON METAL DECK (SOMD)											
						0		0		0	0
FORMING											
Form Bulkheads (pour stops)	2,249	LF	54.68	0.300	675	36,894	1.00	2,249		0	39,143
Hung edge form (recess at terrace)	540	LF	54.68	0.350	189	10,335	1.00	540		0	10,875
Perimeter edge form by metal deck sub		LF				0		0		0	0
						0		0		0	0
PLACING (w/Pump)						0		0		0	0
Place lightweight SOMD	2,792	CY	52.00	0.600	1,675	87,110		0	8.00	22,336	109,446
Place lightweight SOMD - Roof	686	CY	52.00	0.600	412	21,403		0	8.00	5,488	26,891
Place hardrock SOMD - Roof	156	CY	52.00	0.600	94	4,867		0	8.00	1,248	6,115
Concrete supply 3000 psi LtWt +5%	3,652	CY				0	110.00	401,709		0	401,709
Concrete supply 3000 psi HR +5%	164	CY				0	90.00	14,742		0	14,742
						0		0		0	0
CEMENT FINISHING						0		0		0	0
Trowel Finish SOMD	167,541	SF	55.78	0.008	1,340	74,763		0		0	74,763
Broom Finish SOMD - Roof	41,638	SF	55.78	0.006	250	13,935		0		0	13,935
						0		0		0	0
CURE & PROTECT						0		0		0	0
SOMD (incl roof)	209,179	SF	48.41	0.002	418	20,253	0.01	2,092		0	22,345
						0		0		0	0
REINFORCING STEEL						0		0		0	0
- Rebar & wire mesh, furnish & install, included in concrete reinforcing budget						0		0		0	0
						0		0		0	0
						0		0		0	0
						0		0		0	0
(Add to and Expand this Spread Sheet as Necessary)						0		0		0	0
						0		0		0	0
						0		0		0	0
						0		0		0	0
SUBTOTAL DIRECT COSTS - SOMD						269,561		421,332		29,072	719,965
EQUIP & OVERHEAD (SOMD)		%				0	0.17	122,394		--	122,394
TOTAL COSTS - SOMD											842,359
FEE (on Self Performed Work)		%				0	10%	84,236		0	84,236
TOTAL BID - SOMD											**926,595**

EXTENDED BY _____
CHECKED BY _____

INTENTIONAL BLANK PAGE

3f.) Budget-Structural Steel

- In this exercise your Team will complete the Structural Steel estimate for inclusion in the Conceptual Estimate Summary where noted.
- Some information in the Structural Steel worksheet has been provided and you may assume this information is correct.
- Using the drawings and other supplemental information provided, obtain quantities for the various line items of work in the Structural Steel worksheet.
- Apply the appropriate unit rates to complete the estimate for this phase of work.
- Drawing References
    - S2.05B-GROUND LEVEL SLAB DEPRESSION PLAN
    - S2.06-2ND LEVEL FRAMING PLAN
    - S2.07-3RD LEVEL FRAMING PLAN
    - S2.08-4TH LEVEL FRAMING PLAN
    - S2.09-5TH LEVEL FRAMING PLAN
    - S2.10-ROOF PENTHOUSE FRAMING PLAN
    - S2.11-MECHANICAL PENTHOUSE ROOF FRAMING PLAN

- Other Information
    - The Structural Engineer has not completed the steel design and has indicated an allowance to be utilized in the development of the budget estimate which is based upon the building area.
    - The unit price market for a structural steel frame of this design is $2,800 per ton.

INTENTIONAL BLANK PAGE

Fox Office Building 103
Los Angeles, CA

STRUCTURAL STEEL ESTIMATE

ITEM	QTY		CREW RATE	PROD RATE	LABOR MH	LABOR COST	MATERIAL UNIT	MATERIAL COST	EQUIP/SUBCONTRACT UNIT	EQUIP/SUBCONTRACT COST	TOTAL COST
STRUCTURAL STEEL											
Total Building Area =	209,179	sf									
Engr's Steel Allowance =	11	#/sf									
Estimated Pounds of Steel =	2,300,969	#									
Estimated Tonnes of Steel =	1,150	TN									
Unit Price per Ton =	2,800	$/TN									
Structural Steel	1,150	TN	-		-	0	-	0	2,800	3,221,357	3,221,357
SUBTOTAL DIRECT COSTS - SOMD						0		0		3,221,357	3,221,357
EQUIP & OVERHEAD (SOMD)		%				0	0%	0		--	0
TOTAL COSTS - SOMD											3,221,357
FEE (on Self Performed Work)		%				0	0%	-		0	0
TOTAL BID - STRUCTURAL STEEL											**3,221,357**

STRUCTURAL STEEL ESTIMATE

EXTENDED BY _____
CHECKED BY _____

INTENTIONAL BLANK PAGE

3g.) Budget-Electrical Recap

- In this exercise your Team will review 3 actual Electrical bids and complete the Electrical Recap Worksheet.
- Determine the lowest responsive bidder and include Electrical budget total from the recap worksheet in the Conceptual Estimate Summary where noted.
- Some information in the Electrical Recap worksheet has been provided and you may assume this information is correct
- Information in one or more of the electrical bids maybe incomplete, your team may make reasonable assumptions that are based upon a fictitious telephone call to the respective electrical bidder, to determine incomplete information. Note any assumptions on the bottom of the electrical recap card.

INTENTIONAL BLANK PAGE

	Description		PCL Budget	Dynalectric	Morrow-Meadows	Rosendin	
	Electrical						
	Base Bid		2,287,800	2,345,600	2,392,200	2,160,000	
	Design Fee	**By Owner**		excl	excl	excl	
	Fire Alarm System	**Owner's S**		incl	incl	incl	
	Temp Power			incl	incl	incl	
	Utility Company Charges	**By Owner**		excl	excl	excl	
	Electrical Permit			incl	incl	incl	
	Warranty Costs			incl	incl	incl	
	Parking- Offsite + Shuttle			incl	incl	156,000	
	Bid RFI Deducts/adds				(24,500)	18,200	
	Site Lighting Allowance		80,500	incl	incl	incl	
	Lobby Lighting Allowance		25,000	incl	incl	incl	
	Temp Power Install		92,000	incl	incl	incl	
	Temp Power Maintain		26,894	incl	incl	incl	
	M/E Coordinator 1/2 Time		37,977	37,977	37,977	37,977	
	Sales Tax	**$$ Include**		Y	Y	Y	
	BONDABLE	**$$ Not Inc**		Y	Y	Y	
	PER PLANS AND SPECS			Y	Y	Y	
	ADDENDUM 1 & 2			Y	Y	Y	
	UNION /NON UNION			Union	Union	Union	
	ELECTRICAL		**2,550,171**	**2,383,577**	**2,405,677**	**2,372,177**	

USE

INTENTIONAL BLANK PAGE

TAB 4

INTENTIONAL BLANK PAGE

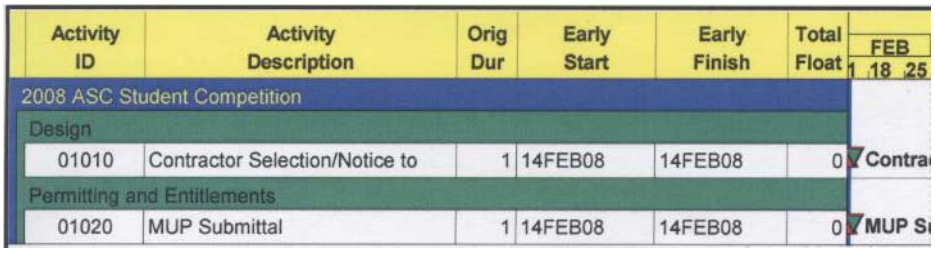
4. Schedule

As part of your review with management, you will be required to present a complete, workable Critical Path Schedule (CPM) to plan the work within the guidelines prescribed below. As this is a preconstruction services problem, upper management is equally interested in the activities and your thought processes in the preconstruction phase as in the construction phase. The schedule is to convey your teams plan to fully execute the project from cradle to grave.

The following criteria explain the background information and requirements of the CPM schedule you team will present.

1. General Schedule Criteria:
    a. Presentation Criteria:
        i. Format:
            1. At minimum, show Activity ID, Activity Description, Original Duration (OD), Early Start (ES), Early Finish (EF), and Total Float (TF), per activity (see Figure "A" below)
            2. Organize and sort Preconstruction activities grouped together with construction activities following.

Figure A: Schedule Activity Example



Activity ID	Activity Description	Orig Dur	Early Start	Early Finish	Total Float	FEB 1 18 25
2008 ASC Student Competition						
Design						
01010	Contractor Selection/Notice to	1	14FEB08	14FEB08	0	Contra
Permitting and Entitlements						
01020	MUP Submittal	1	14FEB08	14FEB08	0	MUP S

        ii. Activity Count: 150- 200 activities
        iii. Provide a sufficient amount of preconstruction and construction activities. Include design, permitting and entitlements, easement negotiations, long lead and construction activities
        iv. Show the logic between activities
        v. Clearly show the critical path of the schedule
        vi. Organize activities so they are easy to read, activities are grouped intuitively and the schedule flows well.

    b. Contractual Criteria
        1. Project Start Date for Preconstruction (Notice to Proceed): February 14, 2009
        2. Preconstruction Period: 7 Months
        3. Project Duration: 19 Months

4. Minimum Milestones to be presented on CPM Schedule:

Contract Award	Permit Submittal (S)
Design Complete	GMP Estimate
Begin Demolition	Parking Structure Complete
Completion of Shoring and Excavation	Structural Steel & Mtl Decks Complete
C of O Inspections	Substantial Completion
Building Enclosure Milestone	Final Completion

5. Assume the following calendar holidays: May 26, 2009, July 04, 2009, September 01, 2009, November 26- 27, 2009, December 25, 2009, January 21, 2010, *June 01, 2010*, *July 05, 2010*, September 01, 2010, November 25-26, 2010, December 25, 2010, January 01, 2011.

2. Preconstruction Phase Criteria:
   a) The Architect and consultants will be 75% complete with the Construction Document phase on February 14, 2009.
   b) The permitting agency will allow phased permitting for shoring and excavation, foundation only, and remaining structure.
   c) Estimates will be required at the completion of each design phase

3. All other work criteria:
   a) Original durations for the demolition, excavation, shoring, concrete structure, steel and etc. shall be derived on a (rough) quantitative basis per the "Typical Construction Activity" worksheet and explanation included in the scheduling section of the Supplemental Information. Use the worksheets to calculate durations based upon (rough) quantities that you survey, then divide by a productivity rates that you derive. You may use RS Means or other productivity data resources to help if needed.
   b) Scheduling of all work should support the assumption made by the Site Logistics Plans drafted in Section 5 below
   c) Review the plans thoroughly. Ensure that your schedule encompasses as much of the work possible in the limited number of activities you are required to provide.
   d) Your team may begin construction anytime, provided you have your first permit in hand. You may lag activities as you see fit and are reasonable logic assumptions.
   e) The last activity in your schedule should be Final Completion.

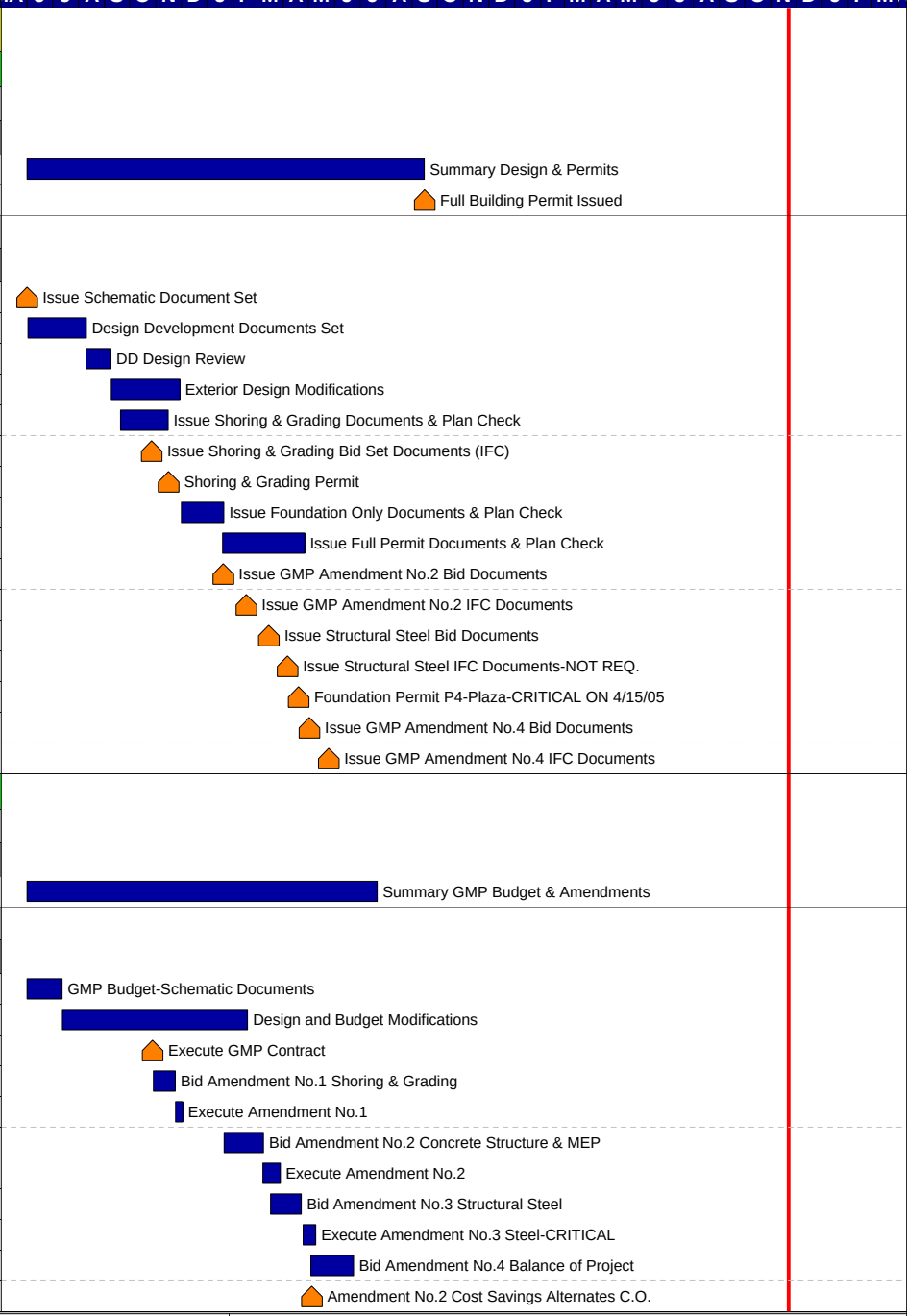
General comments:

1. Do not resource load or cost load your schedule
2. Preconstruction may overlap construction.
3. When it comes to scheduling, there are not right or wrong answers. Ensure that your team can substantiate and explain all of the assumptions and decisions made in the process of developing your schedule.

Deliverable:

1. *Preconstruction Schedule*

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
Pre-Construction Services					
Design and Permits					
Summary					
0005	Summary Design & Permits	0 *	100	01JUN04 A	15SEP05 A
0170	Full Building Permit Issued	0	100		15SEP05 A
0010	Issue Schematic Document Set	0	100	01JUN04 A	
0020	Design Development Documents Set	0	100	02JUN04 A	10AUG04 A
0030	DD Design Review	0	100	10AUG04 A	08SEP04 A
0040	Exterior Design Modifications	0	100	09SEP04 A	29NOV04 A
0050	Issue Shoring & Grading Documents & Plan Check	0	100	20SEP04 A	15NOV04 A
0060	Issue Shoring & Grading Bid Set Documents (IFC)	0	100	27OCT04 A	
0070	Shoring & Grading Permit	0	100	16NOV04 A	
0080	Issue Foundation Only Documents & Plan Check	0	100	01DEC04 A	20JAN05 A
0090	Issue Full Permit Documents & Plan Check	0	100	19JAN05 A	26APR05 A
0100	Issue GMP Amendment No.2 Bid Documents	0	100	20JAN05 A	
0110	Issue GMP Amendment No.2 IFC Documents	0	100	16FEB05 A	
0130	Issue Structural Steel Bid Documents	0	100	15MAR05 A	
0140	Issue Structural Steel IFC Documents-NOT REQ.	0	100	06APR05 A	
0120	Foundation Permit P4-Plaza-CRITICAL ON 4/15/05	0	100	19APR05 A	
0150	Issue GMP Amendment No.4 Bid Documents	0	100	02MAY05 A	
0160	Issue GMP Amendment No.4 IFC Documents	0	100	25MAY05 A	
GMP Budget & Amendments					
Summary					
0200	Summary GMP Budget & Amendments	0 *	100	01JUN04 A	21JUL05 A
0205	GMP Budget-Schematic Documents	0	100	01JUN04 A	12JUL04 A
0210	Design and Budget Modifications	0	100	13JUL04 A	17FEB05 A
0220	Execute GMP Contract	0	100	28OCT04 A	
0230	Bid Amendment No.1 Shoring & Grading	0	100	29OCT04 A	23NOV04 A
0240	Execute Amendment No.1	0	100	24NOV04 A	02DEC04 A
0250	Bid Amendment No.2 Concrete Structure & MEP	0	100	21JAN05 A	08MAR05 A
0260	Execute Amendment No.2	0	100	08MAR05 A	28MAR05 A
0270	Bid Amendment No.3 Structural Steel	0	100	17MAR05 A	22APR05 A
0280	Execute Amendment No.3 Steel-CRITICAL	0	100	25APR05 A	09MAY05 A
0290	Bid Amendment No.4 Balance of Project	0	100	04MAY05 A	23JUN05 A
0300	Amendment No.2 Cost Savings Alternates C.O.	0	100		04MAY05 A



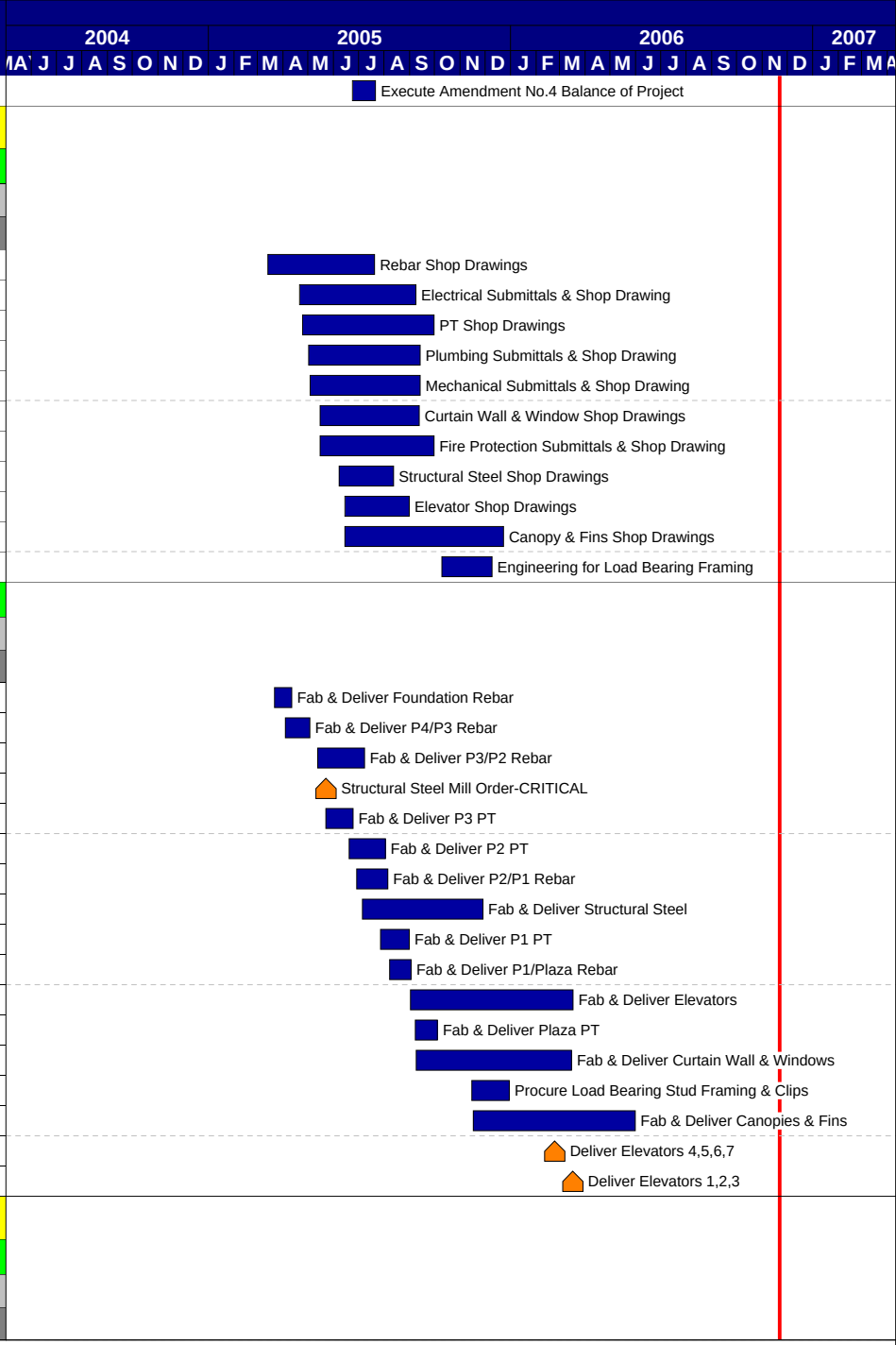
Data date	***22NOV06***
Finish date	***27AUG06***
Run date	***04SEP08***
Page number	***1A***
Number/Version	***As-Built***
Project name	***611A***

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
0295	Execute Amendment No.4 Balance of Project	0	100	24JUN05 A	21JUL05 A
Submittals and Procurement					
Key Submittals & Shop Drawings					
0305	Rebar Shop Drawings	0	100	14MAR05 A	20JUL05 A
0330	Electrical Submittals & Shop Drawing	0	100	21APR05 A	08SEP05 A
0310	PT Shop Drawings	0	100	25APR05 A	30SEP05 A
0336	Plumbing Submittals & Shop Drawing	0	100	02MAY05 A	13SEP05 A
0335	Mechanical Submittals & Shop Drawing	0	100	04MAY05 A	13SEP05 A
0315	Curtain Wall & Window Shop Drawings	0	100	16MAY05 A	12SEP05 A
0340	Fire Protection Submittals & Shop Drawing	0	100	16MAY05 A	30SEP05 A
0350	Structural Steel Shop Drawings	0	100	08JUN05 A	12AUG05 A
0320	Elevator Shop Drawings	0	100	15JUN05 A	31AUG05 A
0325	Canopy & Fins Shop Drawings	0	100	15JUN05 A	23DEC05 A
0360	Engineering for Load Bearing Framing	0	100	10OCT05 A	09DEC05 A
Long Lead Fabrication & Delivery					
0405	Fab & Deliver Foundation Rebar	0	100	22MAR05 A	11APR05 A
0410	Fab & Deliver P4/P3 Rebar	0	100	04APR05 A	03MAY05 A
0415	Fab & Deliver P3/P2 Rebar	0	100	13MAY05 A	08JUL05 A
0413	Structural Steel Mill Order-CRITICAL	0	100	23MAY05 A	
0412	Fab & Deliver P3 PT	0	100	23MAY05 A	24JUN05 A
0417	Fab & Deliver P2 PT	0	100	20JUN05 A	02AUG05 A
0420	Fab & Deliver P2/P1 Rebar	0	100	29JUN05 A	05AUG05 A
0418	Fab & Deliver Structural Steel	0	100	06JUL05 A	28NOV05 A
0422	Fab & Deliver P1 PT	0	100	28JUL05 A	31AUG05 A
0425	Fab & Deliver P1/Plaza Rebar	0	100	08AUG05 A	02SEP05 A
0423	Fab & Deliver Elevators	0	100	02SEP05 A	17MAR06 A
0427	Fab & Deliver Plaza PT	0	100	08SEP05 A	04OCT05 A
0430	Fab & Deliver Curtain Wall & Windows	0	100	09SEP05 A	15MAR06 A
0460	Procure Load Bearing Stud Framing & Clips	0	100	15NOV05 A	30DEC05 A
0440	Fab & Deliver Canopies & Fins	0	100	17NOV05 A	31MAY06 A
0433	Deliver Elevators 4,5,6,7	0	100	23FEB06 A	
0443	Deliver Elevators 1,2,3	0	100	17MAR06 A	
Construction					
Red Lights & Weather Days					



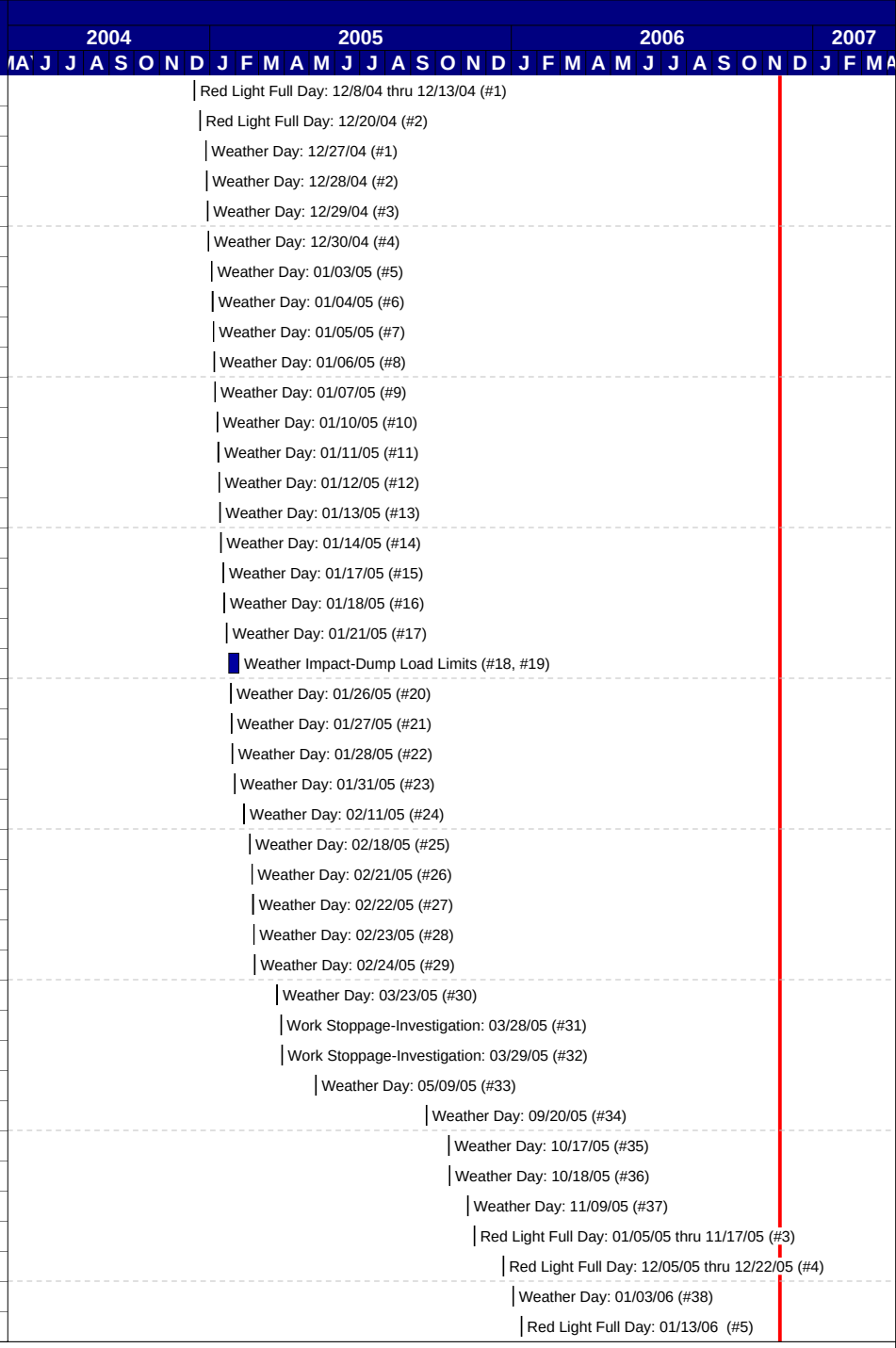
Data date	***22NOV06***
Finish date	***27AUG06***
Run date	***04SEP08***
Page number	***2A***
Number/Version	***As-Built***
Project name	***611A***

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
1005	Red Light Full Day: 12/8/04 thru 12/13/04 (#1)	0	100	13DEC04 A	13DEC04 A
1006	Red Light Full Day: 12/20/04 (#2)	0	100	20DEC04 A	20DEC04 A
1007	Weather Day: 12/27/04 (#1)	0	100	27DEC04 A	27DEC04 A
1008	Weather Day: 12/28/04 (#2)	0	100	28DEC04 A	28DEC04 A
1009	Weather Day: 12/29/04 (#3)	0	100	29DEC04 A	29DEC04 A
1010	Weather Day: 12/30/04 (#4)	0	100	30DEC04 A	30DEC04 A
1011	Weather Day: 01/03/05 (#5)	0	100	03JAN05 A	03JAN05 A
1012	Weather Day: 01/04/05 (#6)	0	100	04JAN05 A	04JAN05 A
1013	Weather Day: 01/05/05 (#7)	0	100	05JAN05 A	05JAN05 A
1014	Weather Day: 01/06/05 (#8)	0	100	06JAN05 A	06JAN05 A
1015	Weather Day: 01/07/05 (#9)	0	100	07JAN05 A	07JAN05 A
1016	Weather Day: 01/10/05 (#10)	0	100	10JAN05 A	10JAN05 A
1017	Weather Day: 01/11/05 (#11)	0	100	11JAN05 A	11JAN05 A
1018	Weather Day: 01/12/05 (#12)	0	100	12JAN05 A	12JAN05 A
1019	Weather Day: 01/13/05 (#13)	0	100	13JAN05 A	13JAN05 A
1020	Weather Day: 01/14/05 (#14)	0	100	14JAN05 A	14JAN05 A
1021	Weather Day: 01/17/05 (#15)	0	100	17JAN05 A	17JAN05 A
1022	Weather Day: 01/18/05 (#16)	0	100	18JAN05 A	18JAN05 A
1023	Weather Day: 01/21/05 (#17)	0	100	21JAN05 A	21JAN05 A
1028	Weather Impact-Dump Load Limits (#18, #19)	0	100	24JAN05 A	04FEB05 A
1024	Weather Day: 01/26/05 (#20)	0	100	26JAN05 A	26JAN05 A
1025	Weather Day: 01/27/05 (#21)	0	100	27JAN05 A	27JAN05 A
1026	Weather Day: 01/28/05 (#22)	0	100	28JAN05 A	28JAN05 A
1027	Weather Day: 01/31/05 (#23)	0	100	31JAN05 A	31JAN05 A
1029	Weather Day: 02/11/05 (#24)	0	100	11FEB05 A	11FEB05 A
1030	Weather Day: 02/18/05 (#25)	0	100	18FEB05 A	18FEB05 A
1031	Weather Day: 02/21/05 (#26)	0	100	21FEB05 A	21FEB05 A
1032	Weather Day: 02/22/05 (#27)	0	100	22FEB05 A	22FEB05 A
1033	Weather Day: 02/23/05 (#28)	0	100	23FEB05 A	23FEB05 A
1034	Weather Day: 02/24/05 (#29)	0	100	24FEB05 A	24FEB05 A
1035	Weather Day: 03/23/05 (#30)	0	100	23MAR05 A	23MAR05 A
1036	Work Stoppage-Investigation: 03/28/05 (#31)	0	100	28MAR05 A	28MAR05 A
1037	Work Stoppage-Investigation: 03/29/05 (#32)	0	100	29MAR05 A	29MAR05 A
1038	Weather Day: 05/09/05 (#33)	0	100	09MAY05 A	09MAY05 A
1039	Weather Day: 09/20/05 (#34)	0	100	20SEP05 A	20SEP05 A
1040	Weather Day: 10/17/05 (#35)	0	100	17OCT05 A	17OCT05 A
1041	Weather Day: 10/18/05 (#36)	0	100	18OCT05 A	18OCT05 A
1042	Weather Day: 11/09/05 (#37)	0	100	09NOV05 A	09NOV05 A
1044	Red Light Full Day: 01/05/05 thru 11/17/05 (#3)	0	100	17NOV05 A	17NOV05 A
1045	Red Light Full Day: 12/05/05 thru 12/22/05 (#4)	0	100	22DEC05 A	22DEC05 A
1043	Weather Day: 01/03/06 (#38)	0	100	03JAN06 A	03JAN06 A
1046	Red Light Full Day: 01/13/06 (#5)	0	100	13JAN06 A	13JAN06 A



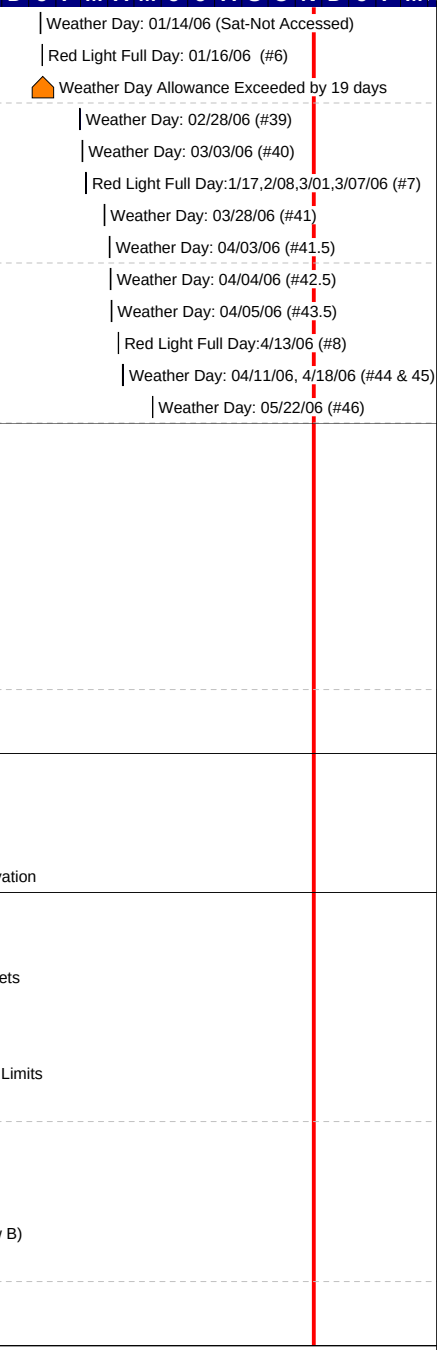
Data date	***22NOV06***
Finish date	***27AUG06***
Run date	***04SEP08***
Page number	***3A***
Number/Version	***As-Built***
Project name	***611A***

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
1048	Weather Day: 01/14/06 (Sat-Not Accessed)	0	100	14JAN06 A	14JAN06 A
1047	Red Light Full Day: 01/16/06 (#6)	0	100	16JAN06 A	16JAN06 A
1099	Weather Day Allowance Exceeded by 19 days	0	100		16JAN06 A
1067	Weather Day: 02/28/06 (#39)	0	100	28FEB06 A	28FEB06 A
1068	Weather Day: 03/03/06 (#40)	0	100	03MAR06 A	03MAR06 A
1057	Red Light Full Day:1/17,2/08,3/01,3/07/06 (#7)	0	100	07MAR06 A	07MAR06 A
1069	Weather Day: 03/28/06 (#41)	0	100	28MAR06 A	28MAR06 A
1070	Weather Day: 04/03/06 (#41.5)	0	100	03APR06 A	03APR06 A
1071	Weather Day: 04/04/06 (#42.5)	0	100	04APR06 A	04APR06 A
1074	Weather Day: 04/05/06 (#43.5)	0	100	05APR06 A	05APR06 A
1073	Red Light Full Day:4/13/06 (#8)	0	100	13APR06 A	13APR06 A
1072	Weather Day: 04/11/06, 4/18/06 (#44 & 45)	0	100	18APR06 A	18APR06 A
1075	Weather Day: 05/22/06 (#46)	0	100	22MAY06 A	22MAY06 A
Site Mobilization					
1105	Notice To Proceed	0	100	03DEC04 A	
1100	Summary-Site Mobilization	0	100	03DEC04 A	23DEC04 A
1110	Tree Clearing	0	100	06DEC04 A	09DEC04 A
1115	Construction Fence & Gates	0	100	08DEC04 A	15DEC04 A
1120	Site Demolition	0	100	10DEC04 A	17DEC04 A
1130	Office Trailers	0	100	10DEC04 A	23DEC04 A
1140	SWPPP Set-Up	0	100	16DEC04 A	21DEC04 A
Excavation & Shoring					
Summary					
General Items					
1200	Summary-Shoring & Excavation	0 *	100	15DEC04 A	19APR05 A
Site Work: Excav, Shor, Util, Grading					
1205	Deliver Soldier Beams & Fab Beam Pockets	0	100	15DEC04 A	23DEC04 A
1210	Mass Excavation (Lifts 1/2)	0	100	21DEC04 A	16FEB05 A
1215	Drill, Set & Pour Soldier Beams	0	100	22DEC04 A	07FEB05 A
1220	Install Safety Barrier @ Excavation Limits	0	100	20JAN05 A	09FEB05 A
1225	Lagging (Lifts 1/2)	0	100	24JAN05 A	17FEB05 A
1230	Install & Test Tie-Backs (Row A)	0	100	31JAN05 A	03MAR05 A
1240	Mass Excavation (Lifts 3/4)	0	100	17FEB05 A	15MAR05 A
1235	Lagging (Lifts 3/4)	0	100	28FEB05 A	17MAR05 A
1245	Install & Test Tie-Backs (Row B)	0	100	02MAR05 A	30MAR05 A
1250	Mass Excavation (Lifts 5/6)	0	100	15MAR05 A	01APR05 A
1255	Lagging (Lifts 5/6)	0	100	17MAR05 A	02APR05 A
1265	Lagging (Lifts 7)	0	100	01APR05 A	08APR05 A



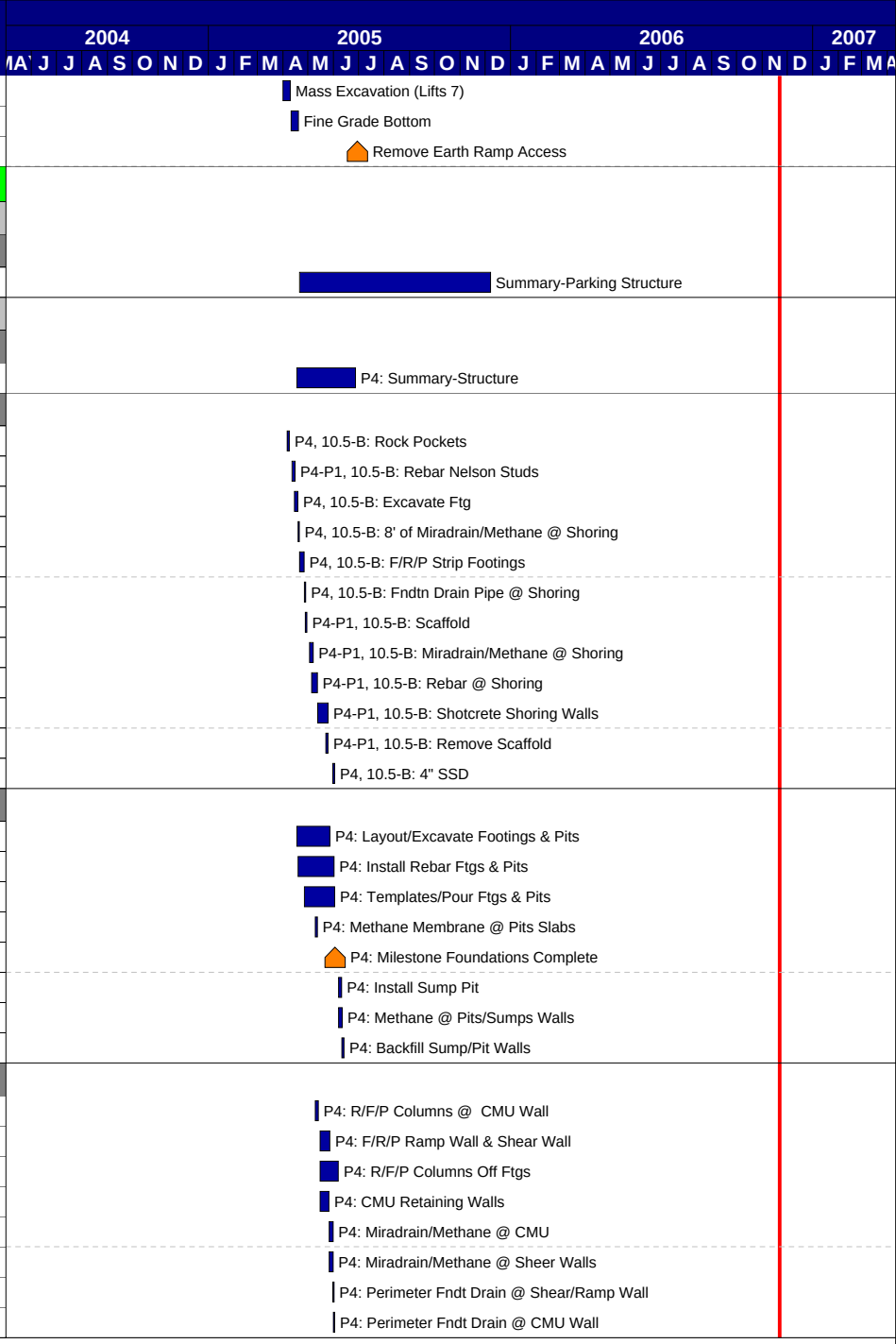
Data date	***22NOV06***
Finish date	***27AUG06***
Run date	***04SEP08***
Page number	***4A***
Number/Version	***As-Built***
Project name	***611A***

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
1260	Mass Excavation (Lifts 7)	0	100	01APR05 A	09APR05 A
1270	Fine Grade Bottom	0	100	11APR05 A	19APR05 A
P0-1371	Remove Earth Ramp Access	0	100	30JUN05 A	
Parking Structure					
Summary					
General Items					
1300	Summary-Parking Structure	0 *	100	21APR05 A	07DEC05 A
Parking Level 4					
General Items					
P4-1310	P4: Summary-Structure	0 *	100	18APR05 A	27JUN05 A
Parking Foundation Walls 10.5/B					
PX1-1305	P4, 10.5-B: Rock Pockets	0	100	06APR05 A	08APR05 A
PX1-1343	P4-P1, 10.5-B: Rebar Nelson Studs	0	100	12APR05 A	15APR05 A
PX1-1311	P4, 10.5-B: Excavate Ftg	0	100	15APR05 A	18APR05 A
PX1-1333	P4, 10.5-B: 8' of Miradrain/Methane @ Shoring	0	100	19APR05 A	20APR05 A
PX1-1314	P4, 10.5-B: F/R/P Strip Footings	0	100	21APR05 A	26APR05 A
PX1-1313	P4, 10.5-B: Fndtn Drain Pipe @ Shoring	0	100	27APR05 A	28APR05 A
PX1-1324	P4-P1, 10.5-B: Scaffold	0	100	28APR05 A	29APR05 A
PX1-1334	P4-P1, 10.5-B: Miradrain/Methane @ Shoring	0	100	03MAY05 A	07MAY05 A
PX1-1344	P4-P1, 10.5-B: Rebar @ Shoring	0	100	06MAY05 A	12MAY05 A
PX1-1355	P4-P1, 10.5-B: Shotcrete Shoring Walls	0	100	13MAY05 A	25MAY05 A
PX1-1365	P4-P1, 10.5-B: Remove Scaffold	0	100	23MAY05 A	25MAY05 A
PX1-1375	P4, 10.5-B: 4" SSD	0	100	31MAY05 A	02JUN05 A
P4 Foundations					
P4-1316	P4: Layout/Excavate Footings & Pits	0	100	18APR05 A	27MAY05 A
P4-1326	P4: Install Rebar Ftgs & Pits	0	100	19APR05 A	01JUN05 A
P4-1336	P4: Templates/Pour Ftgs & Pits	0	100	27APR05 A	02JUN05 A
P4-1363	P4: Methane Membrane @ Pits Slabs	0	100	10MAY05 A	12MAY05 A
P4-1361	P4: Milestone Foundations Complete	0	100		02JUN05 A
P4-1373	P4: Install Sump Pit	0	100	07JUN05 A	10JUN05 A
P4-1364	P4: Methane @ Pits/Sumps Walls	0	100	07JUN05 A	11JUN05 A
P4-1341	P4: Backfill Sump/Pit Walls	0	100	11JUN05 A	13JUN05 A
P4 Columns & Walls					
P4-1346	P4: R/F/P Columns @ CMU Wall	0	100	10MAY05 A	13MAY05 A
P4-1366	P4: F/R/P Ramp Wall & Shear Wall	0	100	16MAY05 A	27MAY05 A
P4-1356	P4: R/F/P Columns Off Ftgs	0	100	16MAY05 A	06JUN05 A
P4-1330	P4: CMU Retaining Walls	0	100	16MAY05 A	26MAY05 A
P4-1317	P4: Miradrain/Methane @ CMU	0	100	27MAY05 A	31MAY05 A
P4-1322	P4: Miradrain/Methane @ Sheer Walls	0	100	27MAY05 A	31MAY05 A
P4-1319	P4: Perimeter Fndt Drain @ Shear/Ramp Wall	0	100	31MAY05 A	01JUN05 A
P4-1318	P4: Perimeter Fndt Drain @ CMU Wall	0	100	01JUN05 A	02JUN05 A



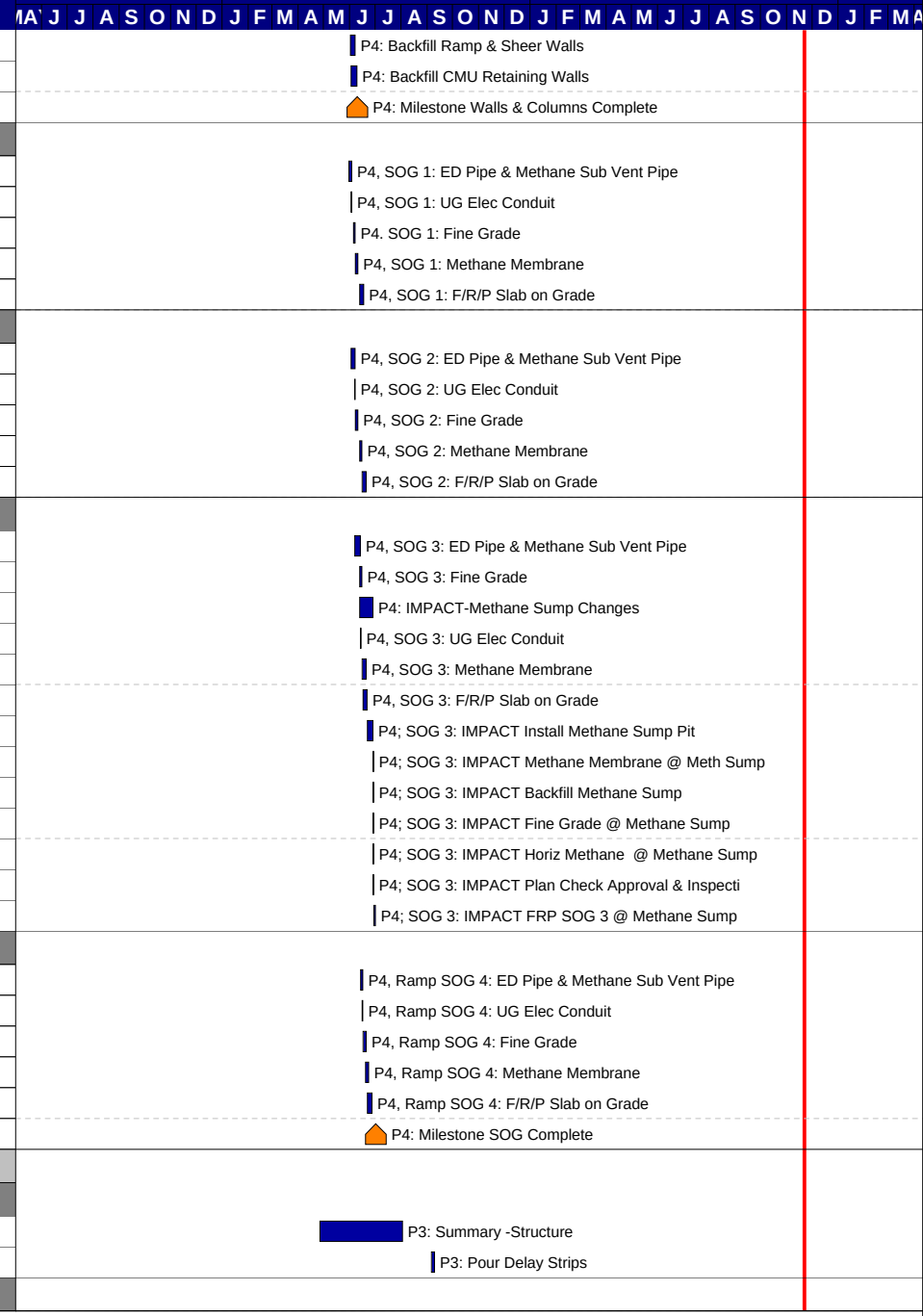
Data date	***22NOV06***
Finish date	***27AUG06***
Run date	***04SEP08***
Page number	***5A***
Number/Version	***As-Built***
Project name	***611A***

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
P4-1323	P4: Backfill Ramp & Sheer Walls	0	100	02JUN05 A	07JUN05 A
P4-1340	P4: Backfill CMU Retaining Walls	0	100	03JUN05 A	09JUN05 A
P4-1333	P4: Milestone Walls & Columns Complete	0	100		09JUN05 A
P4 SOG #1					
P4-1350	P4, SOG 1: ED Pipe & Methane Sub Vent Pipe	0	100	31MAY05 A	03JUN05 A
P4-1355	P4, SOG 1: UG Elec Conduit	0	100	03JUN05 A	03JUN05 A
P4-1385	P4. SOG 1: Fine Grade	0	100	06JUN05 A	07JUN05 A
P4-1365	P4, SOG 1: Methane Membrane	0	100	08JUN05 A	10JUN05 A
P4-1375	P4, SOG 1: F/R/P Slab on Grade	0	100	13JUN05 A	17JUN05 A
P4 SOG #2					
P4-1351	P4, SOG 2: ED Pipe & Methane Sub Vent Pipe	0	100	03JUN05 A	07JUN05 A
P4-1357	P4, SOG 2: UG Elec Conduit	0	100	07JUN05 A	07JUN05 A
P4-1387	P4, SOG 2: Fine Grade	0	100	08JUN05 A	10JUN05 A
P4-1367	P4, SOG 2: Methane Membrane	0	100	13JUN05 A	15JUN05 A
P4-1376	P4, SOG 2: F/R/P Slab on Grade	0	100	16JUN05 A	20JUN05 A
P4 SOG #3					
P4-1352	P4, SOG 3: ED Pipe & Methane Sub Vent Pipe	0	100	07JUN05 A	13JUN05 A
P4-1398	P4, SOG 3: Fine Grade	0	100	13JUN05 A	15JUN05 A
P4-1383	P4: IMPACT-Methane Sump Changes	0	100	13JUN05 A	28JUN05 A
P4-1358	P4, SOG 3: UG Elec Conduit	0	100	14JUN05 A	14JUN05 A
P4-1368	P4, SOG 3: Methane Membrane	0	100	16JUN05 A	20JUN05 A
P4-1377	P4, SOG 3: F/R/P Slab on Grade	0	100	17JUN05 A	21JUN05 A
P4-1397	P4; SOG 3: IMPACT Install Methane Sump Pit	0	100	22JUN05 A	28JUN05 A
P4-1407	P4; SOG 3: IMPACT Methane Membrane @ Meth	0	100	29JUN05 A	29JUN05 A
P4-1417	P4; SOG 3: IMPACT Backfill Methane Sump	0	100	29JUN05 A	29JUN05 A
P4-1427	P4; SOG 3: IMPACT Fine Grade @ Methane Sump	0	100	29JUN05 A	29JUN05 A
P4-1437	P4; SOG 3: IMPACT Horiz Methane @ Methane	0	100	29JUN05 A	29JUN05 A
P4-1457	P4; SOG 3: IMPACT Plan Check Approval & Inspecti	0	100	29JUN05 A	29JUN05 A
P4-1447	P4; SOG 3: IMPACT FRP SOG 3 @ Methane Sump	0	100	30JUN05 A	01JUL05 A
P4 Ramp/SOG #4					
P4-1353	P4, Ramp SOG 4: ED Pipe & Methane Sub Vent Pipe	0	100	14JUN05 A	16JUN05 A
P4-1359	P4, Ramp SOG 4: UG Elec Conduit	0	100	16JUN05 A	16JUN05 A
P4-1379	P4, Ramp SOG 4: Fine Grade	0	100	17JUN05 A	20JUN05 A
P4-1369	P4, Ramp SOG 4: Methane Membrane	0	100	20JUN05 A	23JUN05 A
P4-1378	P4, Ramp SOG 4: F/R/P Slab on Grade	0	100	22JUN05 A	27JUN05 A
P4-1388	P4: Milestone SOG Complete	0	100		01JUL05 A
Parking Level 3					
General Items					
P3-1400	P3: Summary -Structure	0 *	100	27APR05 A	02AUG05 A
P3-1440	P3: Pour Delay Strips	0	100	06SEP05 A	09SEP05 A
Parking Foundation Walls B/3					



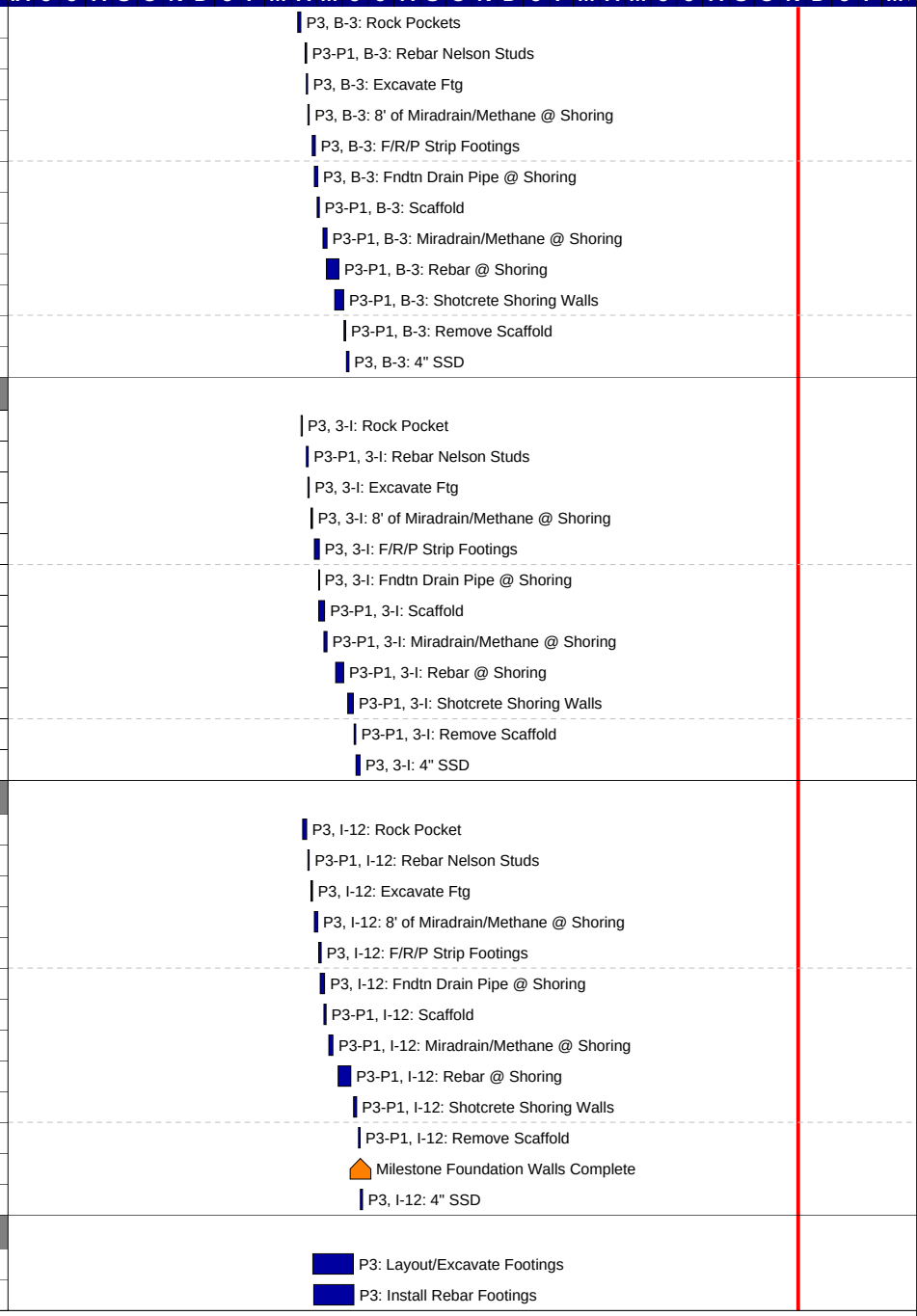
Data date	22NOV06
Finish date	27AUG06
Run date	04SEP08
Page number	6A
Number/Version	As-Built
Project name	611A

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
PX2-1305	P3, B-3: Rock Pockets	0	100	09APR05 A	12APR05 A
PX2-1343	P3-P1, B-3: Rebar Nelson Studs	0	100	18APR05 A	19APR05 A
PX2-1311	P3, B-3: Excavate Ftg	0	100	19APR05 A	20APR05 A
PX2-1333	P3, B-3: 8' of Miradrain/Methane @ Shoring	0	100	21APR05 A	22APR05 A
PX2-1314	P3, B-3: F/R/P Strip Footings	0	100	26APR05 A	29APR05 A
PX2-1313	P3, B-3: Fndtn Drain Pipe @ Shoring	0	100	29APR05 A	02MAY05 A
PX2-1324	P3-P1, B-3: Scaffold	0	100	02MAY05 A	04MAY05 A
PX2-1334	P3-P1, B-3: Miradrain/Methane @ Shoring	0	100	09MAY05 A	13MAY05 A
PX2-1344	P3-P1, B-3: Rebar @ Shoring	0	100	13MAY05 A	27MAY05 A
PX2-1355	P3-P1, B-3: Shotcrete Shoring Walls	0	100	23MAY05 A	02JUN05 A
PX2-1365	P3-P1, B-3: Remove Scaffold	0	100	03JUN05 A	04JUN05 A
PX2-1375	P3, B-3: 4" SSD	0	100	06JUN05 A	08JUN05 A
Parking Foundation Walls 3/I					
PX3-1305	P3, 3-I: Rock Pocket	0	100	13APR05 A	14APR05 A
PX3-1343	P3-P1, 3-I: Rebar Nelson Studs	0	100	19APR05 A	21APR05 A
PX3-1311	P3, 3-I: Excavate Ftg	0	100	21APR05 A	22APR05 A
PX3-1333	P3, 3-I: 8' of Miradrain/Methane @ Shoring	0	100	25APR05 A	26APR05 A
PX3-1314	P3, 3-I: F/R/P Strip Footings	0	100	29APR05 A	04MAY05 A
PX3-1313	P3, 3-I: Fndtn Drain Pipe @ Shoring	0	100	04MAY05 A	04MAY05 A
PX3-1324	P3-P1, 3-I: Scaffold	0	100	04MAY05 A	10MAY05 A
PX3-1334	P3-P1, 3-I: Miradrain/Methane @ Shoring	0	100	10MAY05 A	13MAY05 A
PX3-1344	P3-P1, 3-I: Rebar @ Shoring	0	100	24MAY05 A	02JUN05 A
PX3-1355	P3-P1, 3-I: Shotcrete Shoring Walls	0	100	07JUN05 A	13JUN05 A
PX3-1365	P3-P1, 3-I: Remove Scaffold	0	100	15JUN05 A	16JUN05 A
PX3-1375	P3, 3-I: 4" SSD	0	100	17JUN05 A	21JUN05 A
Parking Foundation Walls I/12					
PX4-1305	P3, I-12: Rock Pocket	0	100	15APR05 A	19APR05 A
PX4-1343	P3-P1, I-12: Rebar Nelson Studs	0	100	21APR05 A	22APR05 A
PX4-1311	P3, I-12: Excavate Ftg	0	100	25APR05 A	26APR05 A
PX4-1333	P3, I-12: 8' of Miradrain/Methane @ Shoring	0	100	29APR05 A	02MAY05 A
PX4-1314	P3, I-12: F/R/P Strip Footings	0	100	04MAY05 A	06MAY05 A
PX4-1313	P3, I-12: Fndtn Drain Pipe @ Shoring	0	100	06MAY05 A	10MAY05 A
PX4-1324	P3-P1, I-12: Scaffold	0	100	10MAY05 A	12MAY05 A
PX4-1334	P3-P1, I-12: Miradrain/Methane @ Shoring	0	100	16MAY05 A	20MAY05 A
PX4-1344	P3-P1, I-12: Rebar @ Shoring	0	100	27MAY05 A	10JUN05 A
PX4-1355	P3-P1, I-12: Shotcrete Shoring Walls	0	100	14JUN05 A	17JUN05 A
PX4-1365	P3-P1, I-12: Remove Scaffold	0	100	20JUN05 A	21JUN05 A
PX4-1385	Milestone Foundation Walls Complete	0	100		21JUN05 A
PX4-1375	P3, I-12: 4" SSD	0	100	22JUN05 A	24JUN05 A
P3 Foundations					
P3-1381	P3: Layout/Excavate Footings	0	100	27APR05 A	13JUN05 A
P3-1391	P3: Install Rebar Footings	0	100	28APR05 A	14JUN05 A



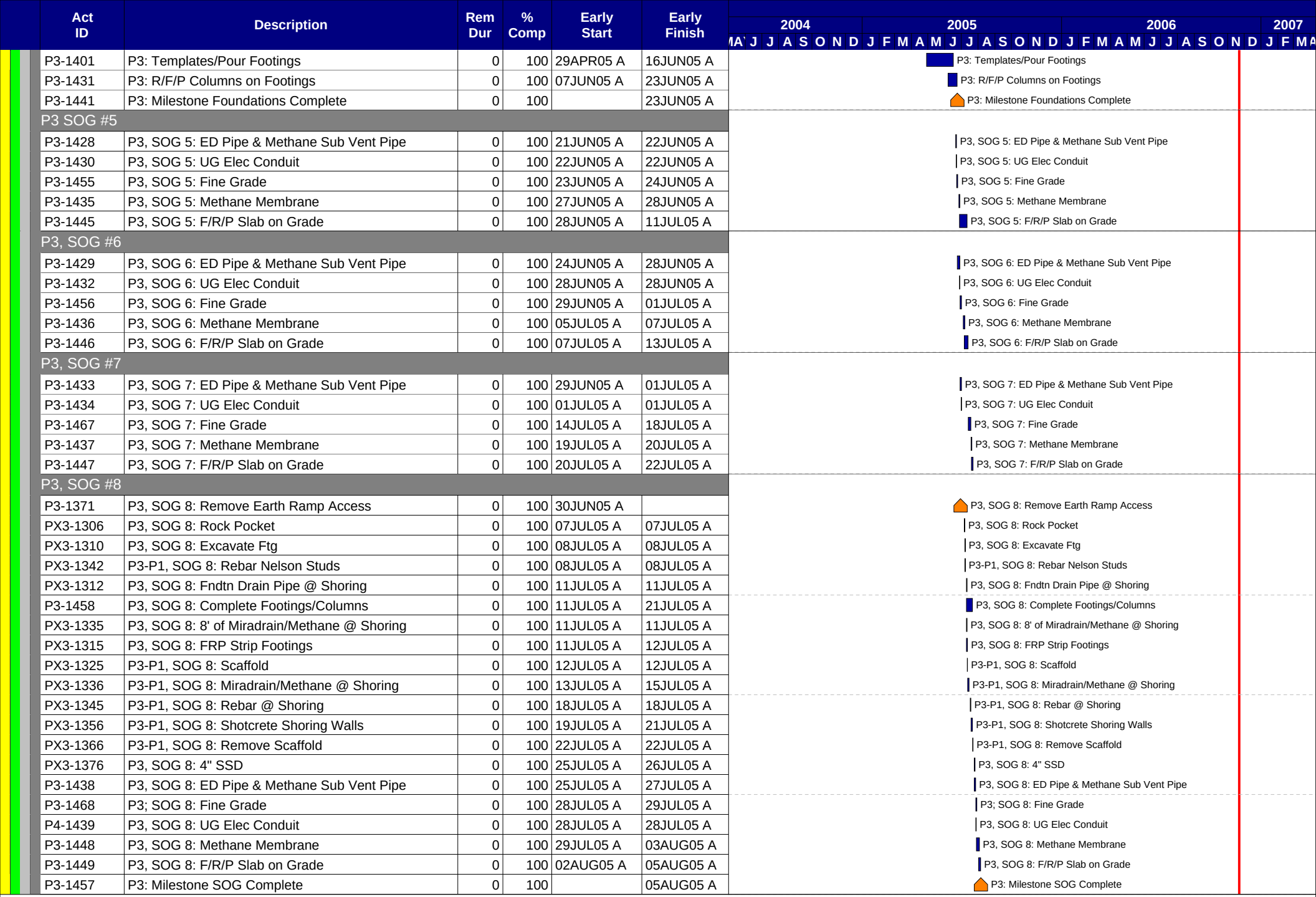
Data date	22NOV06
Finish date	27AUG06
Run date	04SEP08
Page number	7A
Number/Version	As-Built
Project name	611A

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
P3-1401	P3: Templates/Pour Footings	0	100	29APR05 A	16JUN05 A
P3-1431	P3: R/F/P Columns on Footings	0	100	07JUN05 A	23JUN05 A
P3-1441	P3: Milestone Foundations Complete	0	100		23JUN05 A
P3 SOG #5					
P3-1428	P3, SOG 5: ED Pipe & Methane Sub Vent Pipe	0	100	21JUN05 A	22JUN05 A
P3-1430	P3, SOG 5: UG Elec Conduit	0	100	22JUN05 A	22JUN05 A
P3-1455	P3, SOG 5: Fine Grade	0	100	23JUN05 A	24JUN05 A
P3-1435	P3, SOG 5: Methane Membrane	0	100	27JUN05 A	28JUN05 A
P3-1445	P3, SOG 5: F/R/P Slab on Grade	0	100	28JUN05 A	11JUL05 A
P3, SOG #6					
P3-1429	P3, SOG 6: ED Pipe & Methane Sub Vent Pipe	0	100	24JUN05 A	28JUN05 A
P3-1432	P3, SOG 6: UG Elec Conduit	0	100	28JUN05 A	28JUN05 A
P3-1456	P3, SOG 6: Fine Grade	0	100	29JUN05 A	01JUL05 A
P3-1436	P3, SOG 6: Methane Membrane	0	100	05JUL05 A	07JUL05 A
P3-1446	P3, SOG 6: F/R/P Slab on Grade	0	100	07JUL05 A	13JUL05 A
P3, SOG #7					
P3-1433	P3, SOG 7: ED Pipe & Methane Sub Vent Pipe	0	100	29JUN05 A	01JUL05 A
P3-1434	P3, SOG 7: UG Elec Conduit	0	100	01JUL05 A	01JUL05 A
P3-1467	P3, SOG 7: Fine Grade	0	100	14JUL05 A	18JUL05 A
P3-1437	P3, SOG 7: Methane Membrane	0	100	19JUL05 A	20JUL05 A
P3-1447	P3, SOG 7: F/R/P Slab on Grade	0	100	20JUL05 A	22JUL05 A
P3, SOG #8					
P3-1371	P3, SOG 8: Remove Earth Ramp Access	0	100	30JUN05 A	
PX3-1306	P3, SOG 8: Rock Pocket	0	100	07JUL05 A	07JUL05 A
PX3-1310	P3, SOG 8: Excavate Ftg	0	100	08JUL05 A	08JUL05 A
PX3-1342	P3-P1, SOG 8: Rebar Nelson Studs	0	100	08JUL05 A	08JUL05 A
PX3-1312	P3, SOG 8: Fndtn Drain Pipe @ Shoring	0	100	11JUL05 A	11JUL05 A
P3-1458	P3, SOG 8: Complete Footings/Columns	0	100	11JUL05 A	21JUL05 A
PX3-1335	P3, SOG 8: 8' of Miradrain/Methane @ Shoring	0	100	11JUL05 A	11JUL05 A
PX3-1315	P3, SOG 8: FRP Strip Footings	0	100	11JUL05 A	12JUL05 A
PX3-1325	P3-P1, SOG 8: Scaffold	0	100	12JUL05 A	12JUL05 A
PX3-1336	P3-P1, SOG 8: Miradrain/Methane @ Shoring	0	100	13JUL05 A	15JUL05 A
PX3-1345	P3-P1, SOG 8: Rebar @ Shoring	0	100	18JUL05 A	18JUL05 A
PX3-1356	P3-P1, SOG 8: Shotcrete Shoring Walls	0	100	19JUL05 A	21JUL05 A
PX3-1366	P3-P1, SOG 8: Remove Scaffold	0	100	22JUL05 A	22JUL05 A
PX3-1376	P3, SOG 8: 4" SSD	0	100	25JUL05 A	26JUL05 A
P3-1438	P3, SOG 8: ED Pipe & Methane Sub Vent Pipe	0	100	25JUL05 A	27JUL05 A
P3-1468	P3; SOG 8: Fine Grade	0	100	28JUL05 A	29JUL05 A
P4-1439	P3, SOG 8: UG Elec Conduit	0	100	28JUL05 A	28JUL05 A
P3-1448	P3, SOG 8: Methane Membrane	0	100	29JUL05 A	03AUG05 A
P3-1449	P3, SOG 8: F/R/P Slab on Grade	0	100	02AUG05 A	05AUG05 A
P3-1457	P3: Milestone SOG Complete	0	100		05AUG05 A



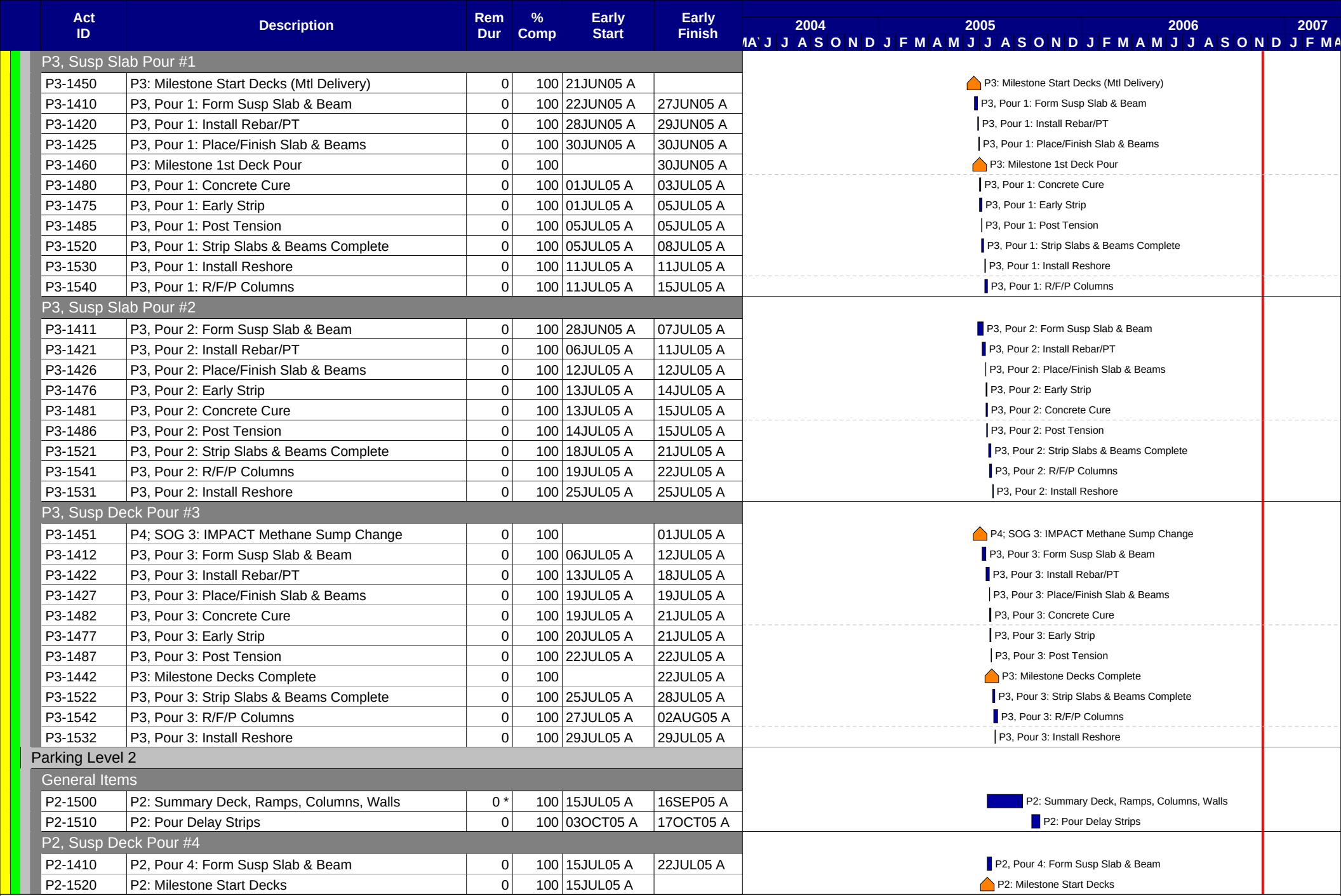
Data date	*22NOV06*
Finish date	*27AUG06*
Run date	*04SEP08*
Page number	*8A*
Number/Version	*As-Built*
Project name	*611A*

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
P3, Susp Slab Pour #1					
P3-1450	P3: Milestone Start Decks (Mtl Delivery)	0	100	21JUN05 A	
P3-1410	P3, Pour 1: Form Susp Slab & Beam	0	100	22JUN05 A	27JUN05 A
P3-1420	P3, Pour 1: Install Rebar/PT	0	100	28JUN05 A	29JUN05 A
P3-1425	P3, Pour 1: Place/Finish Slab & Beams	0	100	30JUN05 A	30JUN05 A
P3-1460	P3: Milestone 1st Deck Pour	0	100		30JUN05 A
P3-1480	P3, Pour 1: Concrete Cure	0	100	01JUL05 A	03JUL05 A
P3-1475	P3, Pour 1: Early Strip	0	100	01JUL05 A	05JUL05 A
P3-1485	P3, Pour 1: Post Tension	0	100	05JUL05 A	05JUL05 A
P3-1520	P3, Pour 1: Strip Slabs & Beams Complete	0	100	05JUL05 A	08JUL05 A
P3-1530	P3, Pour 1: Install Reshore	0	100	11JUL05 A	11JUL05 A
P3-1540	P3, Pour 1: R/F/P Columns	0	100	11JUL05 A	15JUL05 A
P3, Susp Slab Pour #2					
P3-1411	P3, Pour 2: Form Susp Slab & Beam	0	100	28JUN05 A	07JUL05 A
P3-1421	P3, Pour 2: Install Rebar/PT	0	100	06JUL05 A	11JUL05 A
P3-1426	P3, Pour 2: Place/Finish Slab & Beams	0	100	12JUL05 A	12JUL05 A
P3-1476	P3, Pour 2: Early Strip	0	100	13JUL05 A	14JUL05 A
P3-1481	P3, Pour 2: Concrete Cure	0	100	13JUL05 A	15JUL05 A
P3-1486	P3, Pour 2: Post Tension	0	100	14JUL05 A	15JUL05 A
P3-1521	P3, Pour 2: Strip Slabs & Beams Complete	0	100	18JUL05 A	21JUL05 A
P3-1541	P3, Pour 2: R/F/P Columns	0	100	19JUL05 A	22JUL05 A
P3-1531	P3, Pour 2: Install Reshore	0	100	25JUL05 A	25JUL05 A
P3, Susp Deck Pour #3					
P3-1451	P4; SOG 3: IMPACT Methane Sump Change	0	100		01JUL05 A
P3-1412	P3, Pour 3: Form Susp Slab & Beam	0	100	06JUL05 A	12JUL05 A
P3-1422	P3, Pour 3: Install Rebar/PT	0	100	13JUL05 A	18JUL05 A
P3-1427	P3, Pour 3: Place/Finish Slab & Beams	0	100	19JUL05 A	19JUL05 A
P3-1482	P3, Pour 3: Concrete Cure	0	100	19JUL05 A	21JUL05 A
P3-1477	P3, Pour 3: Early Strip	0	100	20JUL05 A	21JUL05 A
P3-1487	P3, Pour 3: Post Tension	0	100	22JUL05 A	22JUL05 A
P3-1442	P3: Milestone Decks Complete	0	100		22JUL05 A
P3-1522	P3, Pour 3: Strip Slabs & Beams Complete	0	100	25JUL05 A	28JUL05 A
P3-1542	P3, Pour 3: R/F/P Columns	0	100	27JUL05 A	02AUG05 A
P3-1532	P3, Pour 3: Install Reshore	0	100	29JUL05 A	29JUL05 A
Parking Level 2					
General Items					
P2-1500	P2: Summary Deck, Ramps, Columns, Walls	0 *	100	15JUL05 A	16SEP05 A
P2-1510	P2: Pour Delay Strips	0	100	03OCT05 A	17OCT05 A
P2, Susp Deck Pour #4					
P2-1410	P2, Pour 4: Form Susp Slab & Beam	0	100	15JUL05 A	22JUL05 A
P2-1520	P2: Milestone Start Decks	0	100	15JUL05 A	



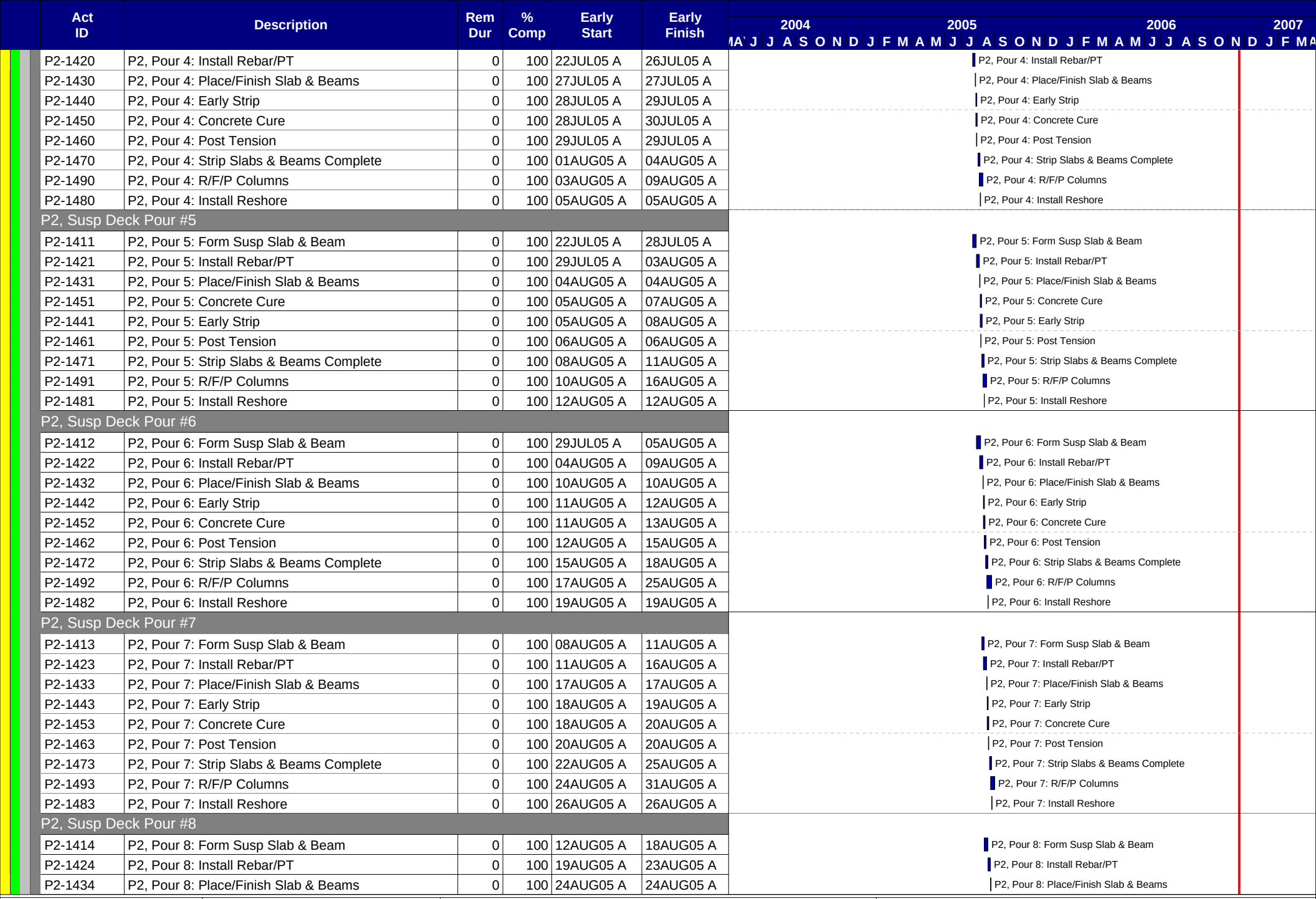
Data date	***22NOV06***
Finish date	***27AUG06***
Run date	***04SEP08***
Page number	***9A***
Number/Version	***As-Built***
Project name	***611A***

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
P2-1420	P2, Pour 4: Install Rebar/PT	0	100	22JUL05 A	26JUL05 A
P2-1430	P2, Pour 4: Place/Finish Slab & Beams	0	100	27JUL05 A	27JUL05 A
P2-1440	P2, Pour 4: Early Strip	0	100	28JUL05 A	29JUL05 A
P2-1450	P2, Pour 4: Concrete Cure	0	100	28JUL05 A	30JUL05 A
P2-1460	P2, Pour 4: Post Tension	0	100	29JUL05 A	29JUL05 A
P2-1470	P2, Pour 4: Strip Slabs & Beams Complete	0	100	01AUG05 A	04AUG05 A
P2-1490	P2, Pour 4: R/F/P Columns	0	100	03AUG05 A	09AUG05 A
P2-1480	P2, Pour 4: Install Reshore	0	100	05AUG05 A	05AUG05 A
P2, Susp Deck Pour #5					
P2-1411	P2, Pour 5: Form Susp Slab & Beam	0	100	22JUL05 A	28JUL05 A
P2-1421	P2, Pour 5: Install Rebar/PT	0	100	29JUL05 A	03AUG05 A
P2-1431	P2, Pour 5: Place/Finish Slab & Beams	0	100	04AUG05 A	04AUG05 A
P2-1451	P2, Pour 5: Concrete Cure	0	100	05AUG05 A	07AUG05 A
P2-1441	P2, Pour 5: Early Strip	0	100	05AUG05 A	08AUG05 A
P2-1461	P2, Pour 5: Post Tension	0	100	06AUG05 A	06AUG05 A
P2-1471	P2, Pour 5: Strip Slabs & Beams Complete	0	100	08AUG05 A	11AUG05 A
P2-1491	P2, Pour 5: R/F/P Columns	0	100	10AUG05 A	16AUG05 A
P2-1481	P2, Pour 5: Install Reshore	0	100	12AUG05 A	12AUG05 A
P2, Susp Deck Pour #6					
P2-1412	P2, Pour 6: Form Susp Slab & Beam	0	100	29JUL05 A	05AUG05 A
P2-1422	P2, Pour 6: Install Rebar/PT	0	100	04AUG05 A	09AUG05 A
P2-1432	P2, Pour 6: Place/Finish Slab & Beams	0	100	10AUG05 A	10AUG05 A
P2-1442	P2, Pour 6: Early Strip	0	100	11AUG05 A	12AUG05 A
P2-1452	P2, Pour 6: Concrete Cure	0	100	11AUG05 A	13AUG05 A
P2-1462	P2, Pour 6: Post Tension	0	100	12AUG05 A	15AUG05 A
P2-1472	P2, Pour 6: Strip Slabs & Beams Complete	0	100	15AUG05 A	18AUG05 A
P2-1492	P2, Pour 6: R/F/P Columns	0	100	17AUG05 A	25AUG05 A
P2-1482	P2, Pour 6: Install Reshore	0	100	19AUG05 A	19AUG05 A
P2, Susp Deck Pour #7					
P2-1413	P2, Pour 7: Form Susp Slab & Beam	0	100	08AUG05 A	11AUG05 A
P2-1423	P2, Pour 7: Install Rebar/PT	0	100	11AUG05 A	16AUG05 A
P2-1433	P2, Pour 7: Place/Finish Slab & Beams	0	100	17AUG05 A	17AUG05 A
P2-1443	P2, Pour 7: Early Strip	0	100	18AUG05 A	19AUG05 A
P2-1453	P2, Pour 7: Concrete Cure	0	100	18AUG05 A	20AUG05 A
P2-1463	P2, Pour 7: Post Tension	0	100	20AUG05 A	20AUG05 A
P2-1473	P2, Pour 7: Strip Slabs & Beams Complete	0	100	22AUG05 A	25AUG05 A
P2-1493	P2, Pour 7: R/F/P Columns	0	100	24AUG05 A	31AUG05 A
P2-1483	P2, Pour 7: Install Reshore	0	100	26AUG05 A	26AUG05 A
P2, Susp Deck Pour #8					
P2-1414	P2, Pour 8: Form Susp Slab & Beam	0	100	12AUG05 A	18AUG05 A
P2-1424	P2, Pour 8: Install Rebar/PT	0	100	19AUG05 A	23AUG05 A
P2-1434	P2, Pour 8: Place/Finish Slab & Beams	0	100	24AUG05 A	24AUG05 A



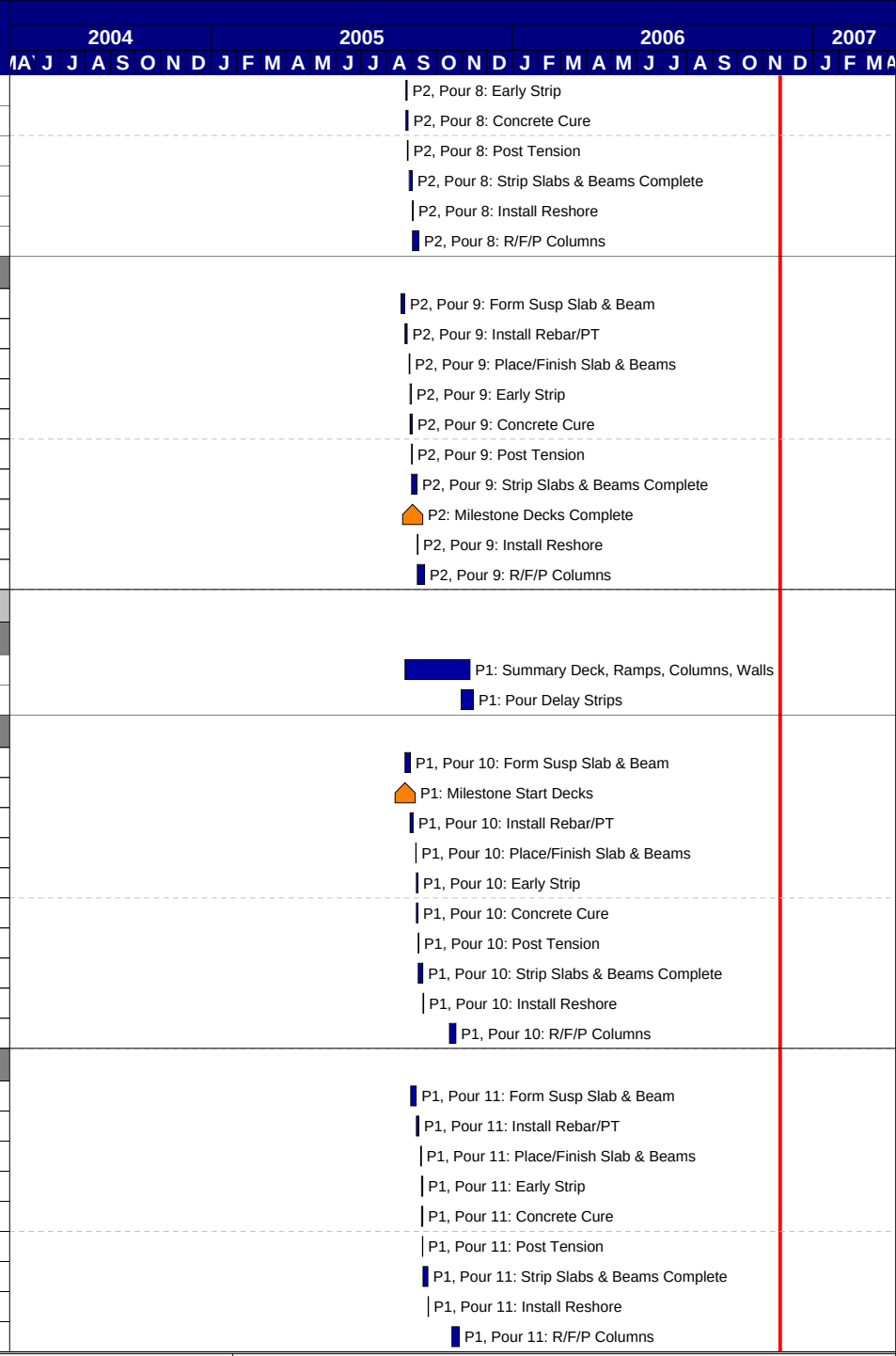
Data date	22NOV06
Finish date	27AUG06
Run date	04SEP08
Page number	10A
Number/Version	As-Built
Project name	611A

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
P2-1444	P2, Pour 8: Early Strip	0	100	25AUG05 A	26AUG05 A
P2-1454	P2, Pour 8: Concrete Cure	0	100	25AUG05 A	27AUG05 A
P2-1464	P2, Pour 8: Post Tension	0	100	27AUG05 A	27AUG05 A
P2-1474	P2, Pour 8: Strip Slabs & Beams Complete	0	100	29AUG05 A	01SEP05 A
P2-1484	P2, Pour 8: Install Reshore	0	100	02SEP05 A	02SEP05 A
P2-1494	P2, Pour 8: R/F/P Columns	0	100	02SEP05 A	09SEP05 A
P2, Susp Deck Pour #9					
P2-1415	P2, Pour 9: Form Susp Slab & Beam	0	100	19AUG05 A	23AUG05 A
P2-1425	P2, Pour 9: Install Rebar/PT	0	100	24AUG05 A	26AUG05 A
P2-1435	P2, Pour 9: Place/Finish Slab & Beams	0	100	29AUG05 A	29AUG05 A
P2-1445	P2, Pour 9: Early Strip	0	100	30AUG05 A	31AUG05 A
P2-1455	P2, Pour 9: Concrete Cure	0	100	30AUG05 A	01SEP05 A
P2-1465	P2, Pour 9: Post Tension	0	100	01SEP05 A	01SEP05 A
P2-1475	P2, Pour 9: Strip Slabs & Beams Complete	0	100	01SEP05 A	07SEP05 A
P2-1505	P2: Milestone Decks Complete	0	100		01SEP05 A
P2-1485	P2, Pour 9: Install Reshore	0	100	08SEP05 A	08SEP05 A
P2-1495	P2, Pour 9: R/F/P Columns	0	100	08SEP05 A	16SEP05 A
Parking Level 1					
General Items					
P1-1600	P1: Summary Deck, Ramps, Columns, Walls	0 *	100	24AUG05 A	10NOV05 A
P1-1610	P1: Pour Delay Strips	0	100	31OCT05 A	14NOV05 A
P1, Susp Deck Pour #10					
P1-1410	P1, Pour 10: Form Susp Slab & Beam	0	100	24AUG05 A	30AUG05 A
P1-1500	P1: Milestone Start Decks	0	100	24AUG05 A	
P1-1420	P1, Pour 10: Install Rebar/PT	0	100	30AUG05 A	02SEP05 A
P1-1430	P1, Pour 10: Place/Finish Slab & Beams	0	100	06SEP05 A	06SEP05 A
P1-1440	P1, Pour 10: Early Strip	0	100	07SEP05 A	08SEP05 A
P1-1450	P1, Pour 10: Concrete Cure	0	100	07SEP05 A	08SEP05 A
P1-1460	P1, Pour 10: Post Tension	0	100	09SEP05 A	09SEP05 A
P1-1470	P1, Pour 10: Strip Slabs & Beams Complete	0	100	09SEP05 A	14SEP05 A
P1-1480	P1, Pour 10: Install Reshore	0	100	15SEP05 A	15SEP05 A
P1-1490	P1, Pour 10: R/F/P Columns	0	100	17OCT05 A	24OCT05 A
P1, Susp Deck Pour #11					
P1-1411	P1, Pour 11: Form Susp Slab & Beam	0	100	31AUG05 A	06SEP05 A
P1-1421	P1, Pour 11: Install Rebar/PT	0	100	07SEP05 A	09SEP05 A
P1-1431	P1, Pour 11: Place/Finish Slab & Beams	0	100	12SEP05 A	12SEP05 A
P1-1441	P1, Pour 11: Early Strip	0	100	13SEP05 A	14SEP05 A
P1-1451	P1, Pour 11: Concrete Cure	0	100	13SEP05 A	14SEP05 A
P1-1461	P1, Pour 11: Post Tension	0	100	14SEP05 A	14SEP05 A
P1-1471	P1, Pour 11: Strip Slabs & Beams Complete	0	100	15SEP05 A	20SEP05 A
P1-1481	P1, Pour 11: Install Reshore	0	100	21SEP05 A	21SEP05 A
P1-1491	P1, Pour 11: R/F/P Columns	0	100	20OCT05 A	28OCT05 A



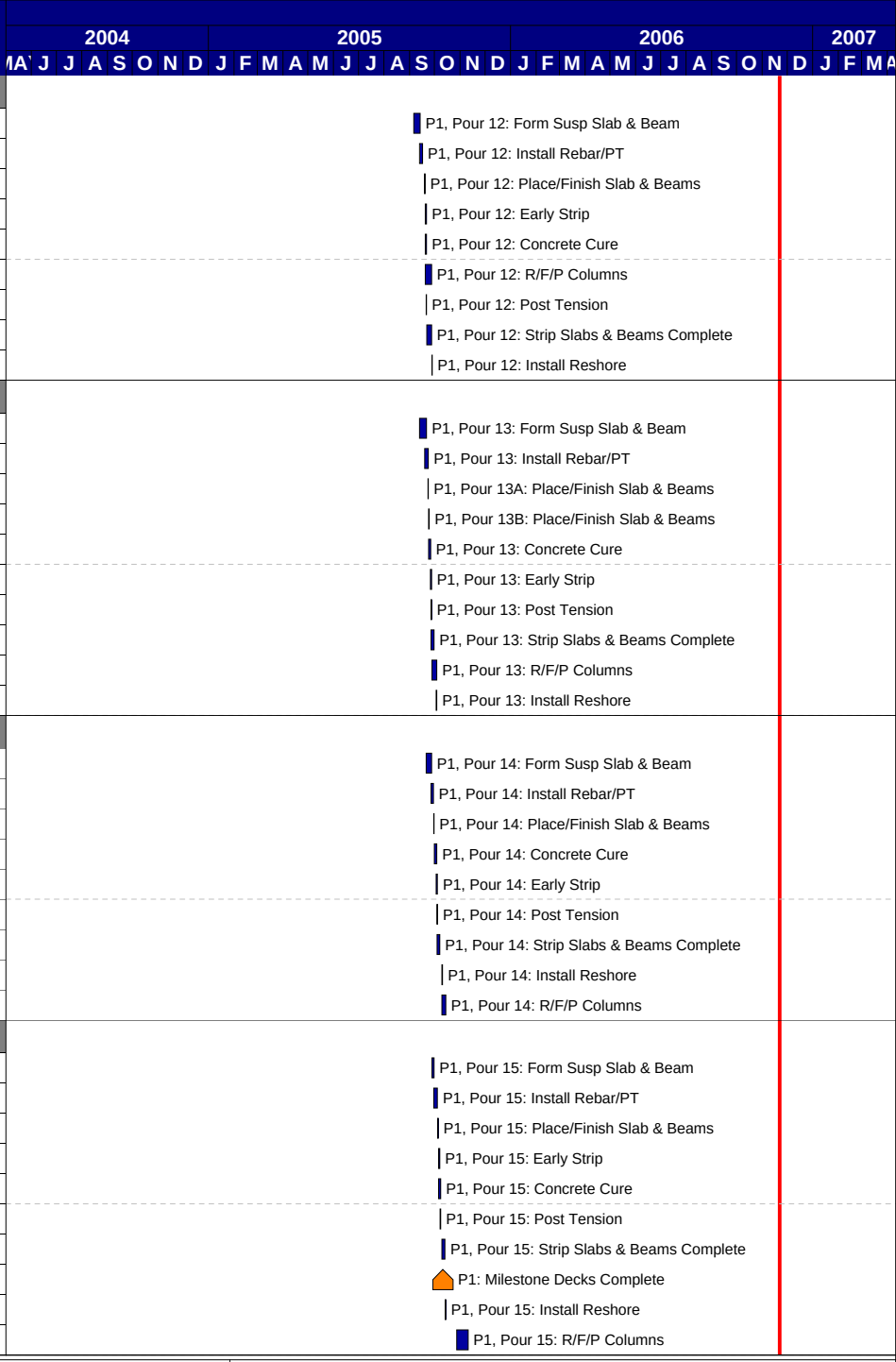
Data date	***22NOV06***
Finish date	***27AUG06***
Run date	***04SEP08***
Page number	***11A***
Number/Version	***As-Built***
Project name	***611A***

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
P1, Susp Deck Pour #12					
P1-1412	P1, Pour 12: Form Susp Slab & Beam	0	100	06SEP05 A	13SEP05 A
P1-1422	P1, Pour 12: Install Rebar/PT	0	100	13SEP05 A	16SEP05 A
P1-1432	P1, Pour 12: Place/Finish Slab & Beams	0	100	19SEP05 A	19SEP05 A
P1-1442	P1, Pour 12: Early Strip	0	100	20SEP05 A	21SEP05 A
P1-1452	P1, Pour 12: Concrete Cure	0	100	20SEP05 A	21SEP05 A
P1-1492	P1, Pour 12: R/F/P Columns	0	100	20SEP05 A	27SEP05 A
P1-1462	P1, Pour 12: Post Tension	0	100	21SEP05 A	21SEP05 A
P1-1472	P1, Pour 12: Strip Slabs & Beams Complete	0	100	22SEP05 A	27SEP05 A
P1-1482	P1, Pour 12: Install Reshore	0	100	28SEP05 A	28SEP05 A
P1, Susp Deck Pour #13					
P1-1413	P1, Pour 13: Form Susp Slab & Beam	0	100	13SEP05 A	21SEP05 A
P1-1423	P1, Pour 13: Install Rebar/PT	0	100	19SEP05 A	23SEP05 A
P1-1433	P1, Pour 13A: Place/Finish Slab & Beams	0	100	23SEP05 A	23SEP05 A
P1-1433B	P1, Pour 13B: Place/Finish Slab & Beams	0	100	24SEP05 A	24SEP05 A
P1-1453	P1, Pour 13: Concrete Cure	0	100	24SEP05 A	26SEP05 A
P1-1443	P1, Pour 13: Early Strip	0	100	26SEP05 A	27SEP05 A
P1-1463	P1, Pour 13: Post Tension	0	100	27SEP05 A	27SEP05 A
P1-1473	P1, Pour 13: Strip Slabs & Beams Complete	0	100	27SEP05 A	30SEP05 A
P1-1493	P1, Pour 13: R/F/P Columns	0	100	28SEP05 A	03OCT05 A
P1-1483	P1, Pour 13: Install Reshore	0	100	03OCT05 A	03OCT05 A
P1, Lvl 1 Susp Deck Pour #14					
P1-1414	P1, Pour 14: Form Susp Slab & Beam	0	100	21SEP05 A	27SEP05 A
P1-1424	P1, Pour 14: Install Rebar/PT	0	100	27SEP05 A	29SEP05 A
P1-1434	P1, Pour 14: Place/Finish Slab & Beams	0	100	30SEP05 A	30SEP05 A
P1-1454	P1, Pour 14: Concrete Cure	0	100	01OCT05 A	03OCT05 A
P1-1444	P1, Pour 14: Early Strip	0	100	03OCT05 A	04OCT05 A
P1-1464	P1, Pour 14: Post Tension	0	100	04OCT05 A	04OCT05 A
P1-1474	P1, Pour 14: Strip Slabs & Beams Complete	0	100	04OCT05 A	07OCT05 A
P1-1484	P1, Pour 14: Install Reshore	0	100	10OCT05 A	10OCT05 A
P1-1494	P1, Pour 14: R/F/P Columns	0	100	10OCT05 A	14OCT05 A
P1, Susp Deck Pour #15					
P1-1415	P1, Pour 15: Form Susp Slab & Beam	0	100	28SEP05 A	30SEP05 A
P1-1425	P1, Pour 15: Install Rebar/PT	0	100	30SEP05 A	04OCT05 A
P1-1435	P1, Pour 15: Place/Finish Slab & Beams	0	100	05OCT05 A	05OCT05 A
P1-1445	P1, Pour 15: Early Strip	0	100	06OCT05 A	07OCT05 A
P1-1455	P1, Pour 15: Concrete Cure	0	100	06OCT05 A	08OCT05 A
P1-1465	P1, Pour 15: Post Tension	0	100	08OCT05 A	08OCT05 A
P1-1475	P1, Pour 15: Strip Slabs & Beams Complete	0	100	10OCT05 A	13OCT05 A
P1-1505	P1: Milestone Decks Complete	0	100		10OCT05 A
P1-1485	P1, Pour 15: Install Reshore	0	100	14OCT05 A	14OCT05 A
P1-1495	P1, Pour 15: R/F/P Columns	0	100	28OCT05 A	10NOV05 A



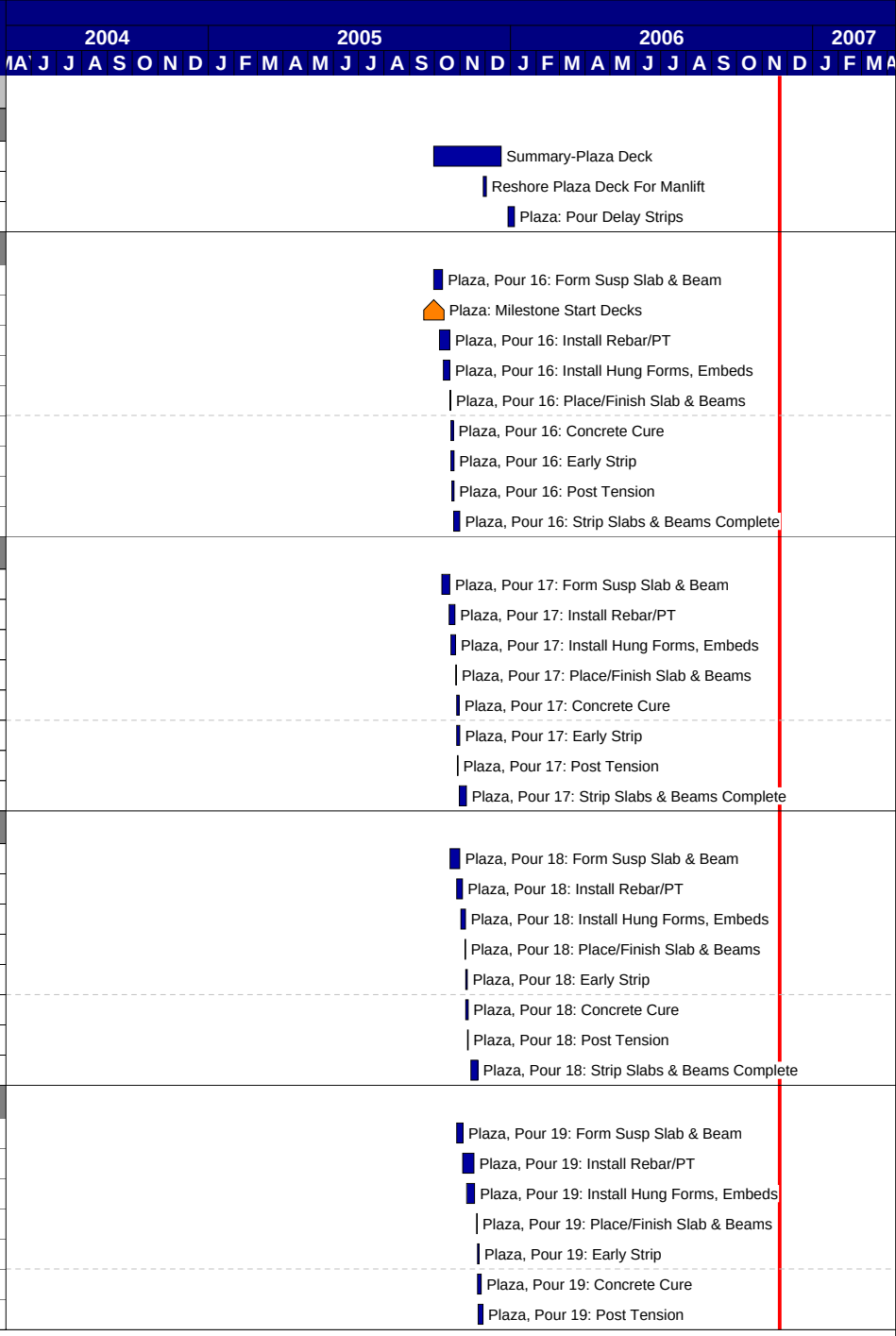
Data date	***22NOV06***
Finish date	***27AUG06***
Run date	***04SEP08***
Page number	***12A***
Number/Version	***As-Built***
Project name	***611A***

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
Plaza					
General Items					
PL-1800	Summary-Plaza Deck	0 *	100	30SEP05 A	20DEC05 A
PL-1850	Reshore Plaza Deck For Manlift	0	100	29NOV05 A	02DEC05 A
PL-1860	Plaza: Pour Delay Strips	0	100	29DEC05 A	05JAN06 A
Plaza Lvl, Susp Deck Pour #16					
PL-1410	Plaza, Pour 16: Form Susp Slab & Beam	0	100	30SEP05 A	10OCT05 A
PL-1490	Plaza: Milestone Start Decks	0	100	30SEP05 A	
PL-1420	Plaza, Pour 16: Install Rebar/PT	0	100	07OCT05 A	19OCT05 A
PL-1430	Plaza, Pour 16: Install Hung Forms, Embeds	0	100	12OCT05 A	19OCT05 A
PL-1440	Plaza, Pour 16: Place/Finish Slab & Beams	0	100	20OCT05 A	20OCT05 A
PL-1450	Plaza, Pour 16: Concrete Cure	0	100	21OCT05 A	23OCT05 A
PL-1460	Plaza, Pour 16: Early Strip	0	100	21OCT05 A	24OCT05 A
PL-1470	Plaza, Pour 16: Post Tension	0	100	22OCT05 A	24OCT05 A
PL-1480	Plaza, Pour 16: Strip Slabs & Beams Complete	0	100	24OCT05 A	31OCT05 A
Plaza Lvl, Susp Deck Pour #17					
PL-1411	Plaza, Pour 17: Form Susp Slab & Beam	0	100	10OCT05 A	19OCT05 A
PL-1421	Plaza, Pour 17: Install Rebar/PT	0	100	19OCT05 A	25OCT05 A
PL-1431	Plaza, Pour 17: Install Hung Forms, Embeds	0	100	21OCT05 A	26OCT05 A
PL-1441	Plaza, Pour 17: Place/Finish Slab & Beams	0	100	27OCT05 A	27OCT05 A
PL-1451	Plaza, Pour 17: Concrete Cure	0	100	28OCT05 A	30OCT05 A
PL-1461	Plaza, Pour 17: Early Strip	0	100	28OCT05 A	31OCT05 A
PL-1471	Plaza, Pour 17: Post Tension	0	100	29OCT05 A	29OCT05 A
PL-1481	Plaza, Pour 17: Strip Slabs & Beams Complete	0	100	31OCT05 A	08NOV05 A
Plaza Lvl, Susp Deck Pour #18					
PL-1412	Plaza, Pour 18: Form Susp Slab & Beam	0	100	20OCT05 A	31OCT05 A
PL-1422	Plaza, Pour 18: Install Rebar/PT	0	100	28OCT05 A	03NOV05 A
PL-1432	Plaza, Pour 18: Install Hung Forms, Embeds	0	100	02NOV05 A	07NOV05 A
PL-1442	Plaza, Pour 18: Place/Finish Slab & Beams	0	100	07NOV05 A	07NOV05 A
PL-1462	Plaza, Pour 18: Early Strip	0	100	08NOV05 A	09NOV05 A
PL-1452	Plaza, Pour 18: Concrete Cure	0	100	08NOV05 A	10NOV05 A
PL-1472	Plaza, Pour 18: Post Tension	0	100	10NOV05 A	10NOV05 A
PL-1482	Plaza, Pour 18: Strip Slabs & Beams Complete	0	100	14NOV05 A	22NOV05 A
Plaza Lvl, Susp Deck Pour #19					
PL-1413	Plaza, Pour 19: Form Susp Slab & Beam	0	100	28OCT05 A	04NOV05 A
PL-1423	Plaza, Pour 19: Install Rebar/PT	0	100	04NOV05 A	17NOV05 A
PL-1433	Plaza, Pour 19: Install Hung Forms, Embeds	0	100	09NOV05 A	18NOV05 A
PL-1443	Plaza, Pour 19: Place/Finish Slab & Beams	0	100	21NOV05 A	21NOV05 A
PL-1463	Plaza, Pour 19: Early Strip	0	100	22NOV05 A	23NOV05 A
PL-1453	Plaza, Pour 19: Concrete Cure	0	100	22NOV05 A	26NOV05 A
PL-1473	Plaza, Pour 19: Post Tension	0	100	23NOV05 A	28NOV05 A



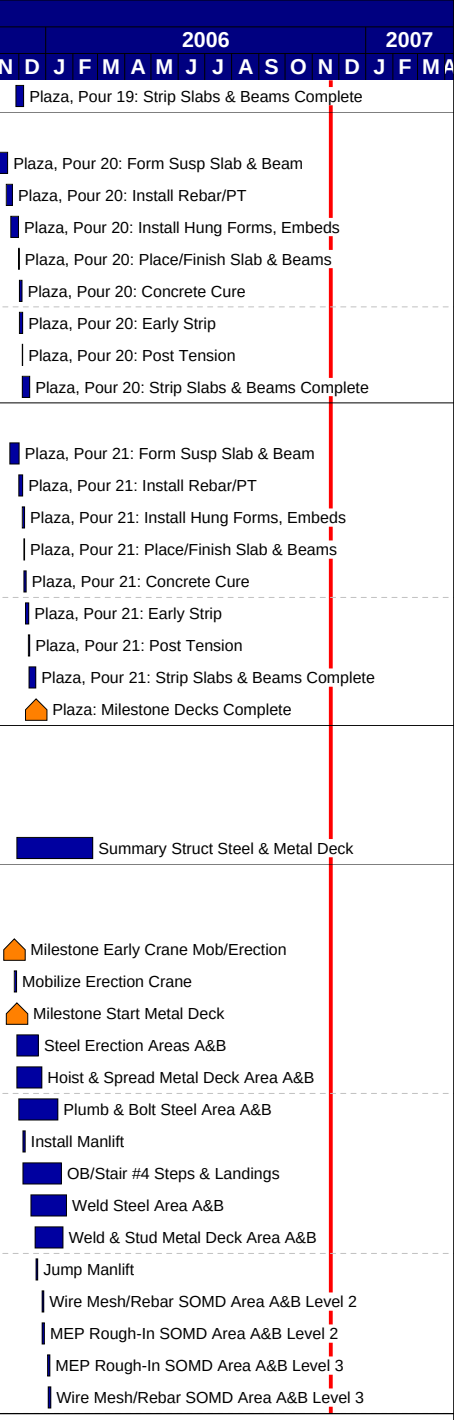
Data date	22NOV06
Finish date	27AUG06
Run date	04SEP08
Page number	13A
Number/Version	As-Built
Project name	611A

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
PL-1483	Plaza, Pour 19: Strip Slabs & Beams Complete	0	100	28NOV05 A	06DEC05 A
Plaza Lvl, Susp Deck Pour #20					
PL-1414	Plaza, Pour 20: Form Susp Slab & Beam	0	100	07NOV05 A	18NOV05 A
PL-1424	Plaza, Pour 20: Install Rebar/PT	0	100	17NOV05 A	23NOV05 A
PL-1434	Plaza, Pour 20: Install Hung Forms, Embeds	0	100	22NOV05 A	30NOV05 A
PL-1444	Plaza, Pour 20: Place/Finish Slab & Beams	0	100	01DEC05 A	01DEC05 A
PL-1454	Plaza, Pour 20: Concrete Cure	0	100	02DEC05 A	04DEC05 A
PL-1464	Plaza, Pour 20: Early Strip	0	100	02DEC05 A	05DEC05 A
PL-1474	Plaza, Pour 20: Post Tension	0	100	05DEC05 A	05DEC05 A
PL-1484	Plaza, Pour 20: Strip Slabs & Beams Complete	0	100	05DEC05 A	13DEC05 A
Plaza Lvl, Susp Deck Pour #21					
PL-1415	Plaza, Pour 21: Form Susp Slab & Beam	0	100	21NOV05 A	01DEC05 A
PL-1425	Plaza, Pour 21: Install Rebar/PT	0	100	01DEC05 A	05DEC05 A
PL-1435	Plaza, Pour 21: Install Hung Forms, Embeds	0	100	05DEC05 A	07DEC05 A
PL-1445	Plaza, Pour 21: Place/Finish Slab & Beams	0	100	07DEC05 A	07DEC05 A
PL-1455	Plaza, Pour 21: Concrete Cure	0	100	07DEC05 A	09DEC05 A
PL-1465	Plaza, Pour 21: Early Strip	0	100	09DEC05 A	12DEC05 A
PL-1475	Plaza, Pour 21: Post Tension	0	100	12DEC05 A	13DEC05 A
PL-1485	Plaza, Pour 21: Strip Slabs & Beams Complete	0	100	13DEC05 A	20DEC05 A
PL-1495	Plaza: Milestone Decks Complete	0	100		20DEC05 A
Structure					
Summary					
General Items					
3000	Summary Struct Steel & Metal Deck	0 *	100	29NOV05 A	23FEB06 A
Not Level Specific					
AREA A&B (Gridlines B-E.5/3.5-12)					
1-3110	Milestone Early Crane Mob/Erection	0	100	26NOV05 A	
1-3100	Mobilize Erection Crane	0	100	26NOV05 A	28NOV05 A
2-3230	Milestone Start Metal Deck	0	100	29NOV05 A	
1-3105	Steel Erection Areas A&B	0	100	29NOV05 A	23DEC05 A
1-3155	Hoist & Spread Metal Deck Area A&B	0	100	29NOV05 A	27DEC05 A
1-3115	Plumb & Bolt Steel Area A&B	0	100	01DEC05 A	14JAN06 A
1-3135	Install Manlift	0	100	06DEC05 A	08DEC05 A
ST-5830	OB/Stair #4 Steps & Landings	0	100	06DEC05 A	18JAN06 A
1-3125	Weld Steel Area A&B	0	100	15DEC05 A	24JAN06 A
1-3165	Weld & Stud Metal Deck Area A&B	0	100	20DEC05 A	20JAN06 A
1-3145	Jump Manlift	0	100	21DEC05 A	22DEC05 A
1-3177	Wire Mesh/Rebar SOMD Area A&B Level 2	0	100	28DEC05 A	29DEC05 A
1-3176	MEP Rough-In SOMD Area A&B Level 2	0	100	28DEC05 A	30DEC05 A
1-3181	MEP Rough-In SOMD Area A&B Level 3	0	100	03JAN06 A	05JAN06 A
1-3182	Wire Mesh/Rebar SOMD Area A&B Level 3	0	100	04JAN06 A	06JAN06 A



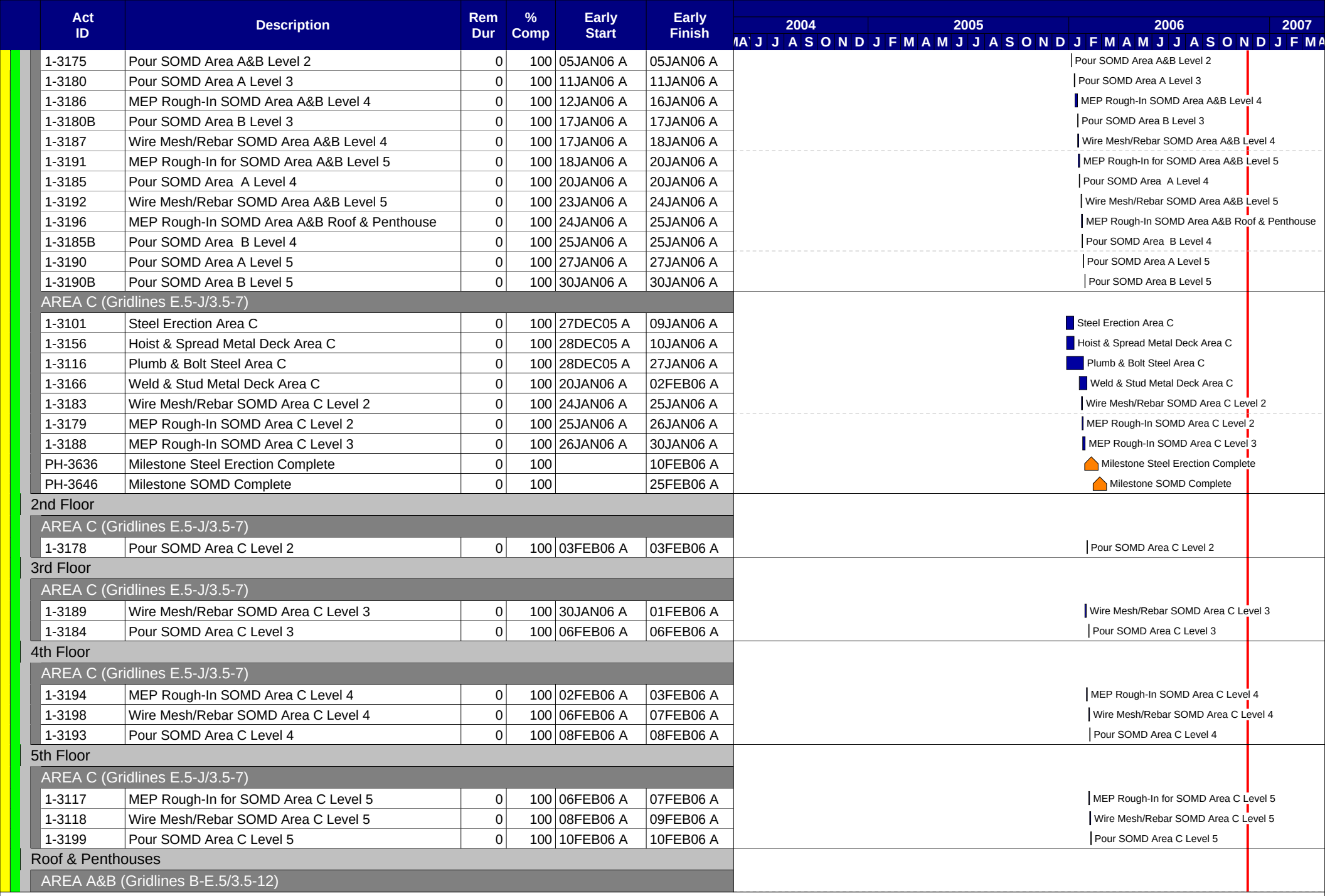
Data date	***22NOV06***
Finish date	***27AUG06***
Run date	***04SEP08***
Page number	***14A***
Number/Version	***As-Built***
Project name	***611A***

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
1-3175	Pour SOMD Area A&B Level 2	0	100	05JAN06 A	05JAN06 A
1-3180	Pour SOMD Area A Level 3	0	100	11JAN06 A	11JAN06 A
1-3186	MEP Rough-In SOMD Area A&B Level 4	0	100	12JAN06 A	16JAN06 A
1-3180B	Pour SOMD Area B Level 3	0	100	17JAN06 A	17JAN06 A
1-3187	Wire Mesh/Rebar SOMD Area A&B Level 4	0	100	17JAN06 A	18JAN06 A
1-3191	MEP Rough-In for SOMD Area A&B Level 5	0	100	18JAN06 A	20JAN06 A
1-3185	Pour SOMD Area A Level 4	0	100	20JAN06 A	20JAN06 A
1-3192	Wire Mesh/Rebar SOMD Area A&B Level 5	0	100	23JAN06 A	24JAN06 A
1-3196	MEP Rough-In SOMD Area A&B Roof & Penthouse	0	100	24JAN06 A	25JAN06 A
1-3185B	Pour SOMD Area B Level 4	0	100	25JAN06 A	25JAN06 A
1-3190	Pour SOMD Area A Level 5	0	100	27JAN06 A	27JAN06 A
1-3190B	Pour SOMD Area B Level 5	0	100	30JAN06 A	30JAN06 A
AREA C (Gridlines E.5-J/3.5-7)					
1-3101	Steel Erection Area C	0	100	27DEC05 A	09JAN06 A
1-3156	Hoist & Spread Metal Deck Area C	0	100	28DEC05 A	10JAN06 A
1-3116	Plumb & Bolt Steel Area C	0	100	28DEC05 A	27JAN06 A
1-3166	Weld & Stud Metal Deck Area C	0	100	20JAN06 A	02FEB06 A
1-3183	Wire Mesh/Rebar SOMD Area C Level 2	0	100	24JAN06 A	25JAN06 A
1-3179	MEP Rough-In SOMD Area C Level 2	0	100	25JAN06 A	26JAN06 A
1-3188	MEP Rough-In SOMD Area C Level 3	0	100	26JAN06 A	30JAN06 A
PH-3636	Milestone Steel Erection Complete	0	100		10FEB06 A
PH-3646	Milestone SOMD Complete	0	100		25FEB06 A
2nd Floor					
AREA C (Gridlines E.5-J/3.5-7)					
1-3178	Pour SOMD Area C Level 2	0	100	03FEB06 A	03FEB06 A
3rd Floor					
AREA C (Gridlines E.5-J/3.5-7)					
1-3189	Wire Mesh/Rebar SOMD Area C Level 3	0	100	30JAN06 A	01FEB06 A
1-3184	Pour SOMD Area C Level 3	0	100	06FEB06 A	06FEB06 A
4th Floor					
AREA C (Gridlines E.5-J/3.5-7)					
1-3194	MEP Rough-In SOMD Area C Level 4	0	100	02FEB06 A	03FEB06 A
1-3198	Wire Mesh/Rebar SOMD Area C Level 4	0	100	06FEB06 A	07FEB06 A
1-3193	Pour SOMD Area C Level 4	0	100	08FEB06 A	08FEB06 A
5th Floor					
AREA C (Gridlines E.5-J/3.5-7)					
1-3117	MEP Rough-In for SOMD Area C Level 5	0	100	06FEB06 A	07FEB06 A
1-3118	Wire Mesh/Rebar SOMD Area C Level 5	0	100	08FEB06 A	09FEB06 A
1-3199	Pour SOMD Area C Level 5	0	100	10FEB06 A	10FEB06 A
Roof & Penthouses					
AREA A&B (Gridlines B-E.5/3.5-12)					



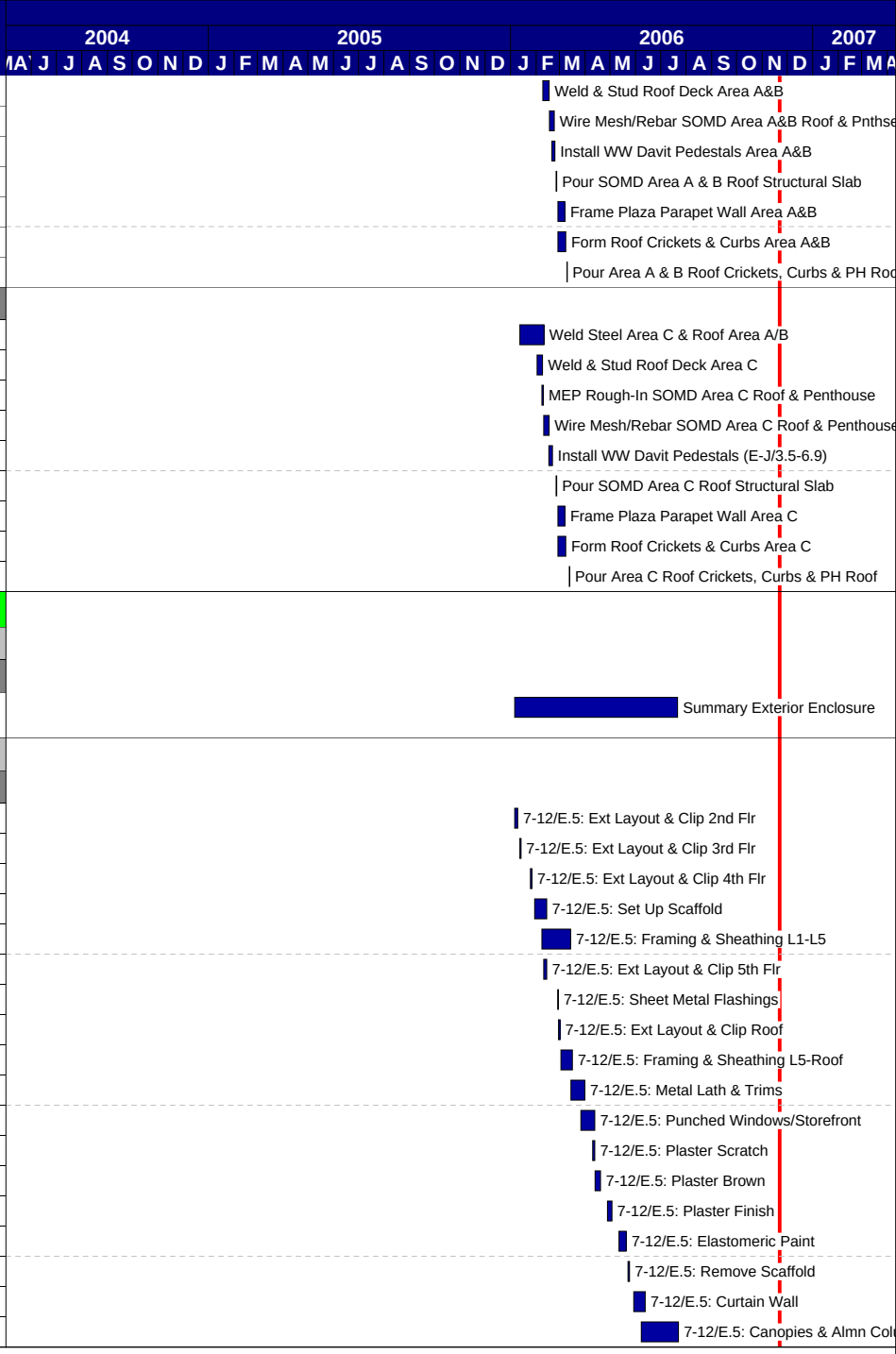
Data date	22NOV06
Finish date	27AUG06
Run date	04SEP08
Page number	15A
Number/Version	As-Built
Project name	611A

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
1-3165R	Weld & Stud Roof Deck Area A&B	0	100	09FEB06 A	16FEB06 A
1-3197	Wire Mesh/Rebar SOMD Area A&B Roof & Pnthse	0	100	17FEB06 A	22FEB06 A
R-3630	Install WW Davit Pedestals Area A&B	0	100	20FEB06 A	23FEB06 A
1-3195	Pour SOMD Area A & B Roof Structural Slab	0	100	25FEB06 A	25FEB06 A
1-3205	Frame Plaza Parapet Wall Area A&B	0	100	27FEB06 A	07MAR06 A
1-3215	Form Roof Crickets & Curbs Area A&B	0	100	27FEB06 A	08MAR06 A
1-3195B	Pour Area A & B Roof Crickets, Curbs & PH Roof	0	100	10MAR06 A	10MAR06 A
AREA C (Gridlines E.5-J/3.5-7)					
1-3126	Weld Steel Area C & Roof Area A/B	0	100	12JAN06 A	10FEB06 A
1-3166R	Weld & Stud Roof Deck Area C	0	100	02FEB06 A	08FEB06 A
1-3129	MEP Rough-In SOMD Area C Roof & Penthouse	0	100	08FEB06 A	09FEB06 A
1-3127	Wire Mesh/Rebar SOMD Area C Roof & Penthouse	0	100	10FEB06 A	16FEB06 A
R-3631	Install WW Davit Pedestals (E-J/3.5-6.9)	0	100	16FEB06 A	20FEB06 A
1-3119	Pour SOMD Area C Roof Structural Slab	0	100	25FEB06 A	25FEB06 A
1-3206	Frame Plaza Parapet Wall Area C	0	100	27FEB06 A	07MAR06 A
1-3216	Form Roof Crickets & Curbs Area C	0	100	27FEB06 A	08MAR06 A
1-3119C	Pour Area C Roof Crickets, Curbs & PH Roof	0	100	13MAR06 A	13MAR06 A
Exterior Enclosure					
Summary					
General Items					
EXT4005	Summary Exterior Enclosure	0 *	100	06JAN06 A	21JUL06 A
Exterior Facade 7-12/E.5					
Exterior Enclosure					
EE3-4101	7-12/E.5: Ext Layout & Clip 2nd Flr	0	100	06JAN06 A	09JAN06 A
EE3-4102	7-12/E.5: Ext Layout & Clip 3rd Flr	0	100	12JAN06 A	13JAN06 A
EE3-4103	7-12/E.5: Ext Layout & Clip 4th Flr	0	100	25JAN06 A	26JAN06 A
EE3-4345	7-12/E.5: Set Up Scaffold	0	100	30JAN06 A	13FEB06 A
EE3-4315	7-12/E.5: Framing & Sheathing L1-L5	0	100	08FEB06 A	14MAR06 A
EE3-4104	7-12/E.5: Ext Layout & Clip 5th Flr	0	100	10FEB06 A	13FEB06 A
EE3-4317	7-12/E.5: Sheet Metal Flashings	0	100	27FEB06 A	27FEB06 A
EE3-4105	7-12/E.5: Ext Layout & Clip Roof	0	100	28FEB06 A	01MAR06 A
EE3-4315R	7-12/E.5: Framing & Sheathing L5-Roof	0	100	03MAR06 A	16MAR06 A
EE3-4316	7-12/E.5: Metal Lath & Trims	0	100	15MAR06 A	31MAR06 A
EE3-4336	7-12/E.5: Punched Windows/Storefront	0	100	27MAR06 A	12APR06 A
EE3-4325	7-12/E.5: Plaster Scratch	0	100	10APR06 A	12APR06 A
EE3-4326	7-12/E.5: Plaster Brown	0	100	13APR06 A	19APR06 A
EE3-4327	7-12/E.5: Plaster Finish	0	100	28APR06 A	03MAY06 A
EE3-4365	7-12/E.5: Elastomeric Paint	0	100	12MAY06 A	20MAY06 A
EE3-4355	7-12/E.5: Remove Scaffold	0	100	23MAY06 A	24MAY06 A
EE3-4335	7-12/E.5: Curtain Wall	0	100	30MAY06 A	12JUN06 A
EE3-4900	7-12/E.5: Canopies & Almn Column Covers	0	100	08JUN06 A	22JUL06 A



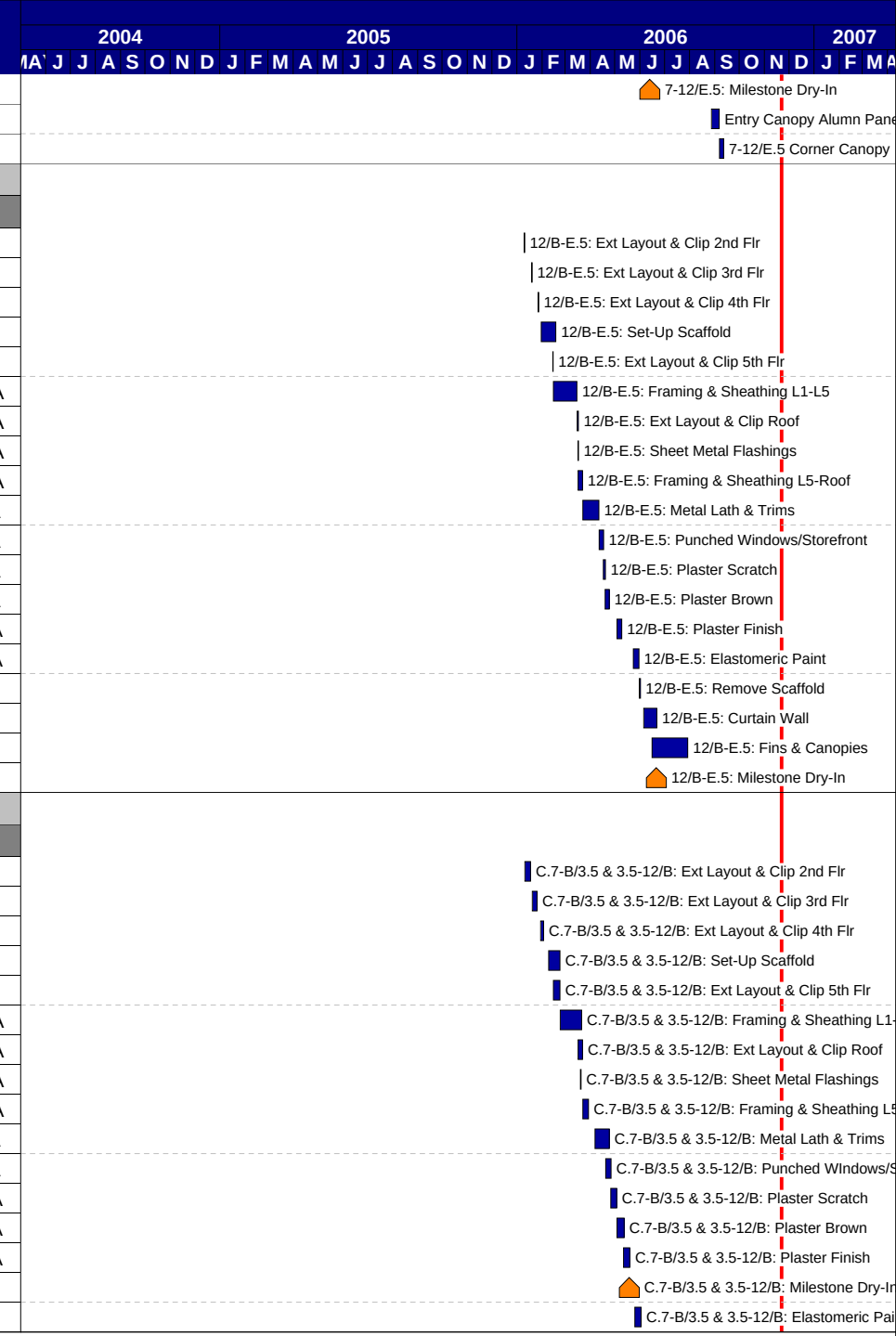
Data date	22NOV06
Finish date	27AUG06
Run date	04SEP08
Page number	16A
Number/Version	As-Built
Project name	611A

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
EE3-4305	7-12/E.5: Milestone Dry-In	0	100	13JUN06 A	
EE3-4910	Entry Canopy Alumn Panels	0	100	28AUG06 A	06SEP06 A
EE3-4920	7-12/E.5 Corner Canopy	0	100	07SEP06 A	11SEP06 A
Exterior Facade 12/B-E.5					
Exterior Enclosure					
EE2-4101	12/B-E.5: Ext Layout & Clip 2nd Flr	0	100	10JAN06 A	10JAN06 A
EE2-4102	12/B-E.5: Ext Layout & Clip 3rd Flr	0	100	19JAN06 A	19JAN06 A
EE2-4103	12/B-E.5: Ext Layout & Clip 4th Flr	0	100	27JAN06 A	27JAN06 A
EE2-4245	12/B-E.5: Set-Up Scaffold	0	100	31JAN06 A	17FEB06 A
EE2-4104	12/B-E.5: Ext Layout & Clip 5th Flr	0	100	14FEB06 A	14FEB06 A
EE2-4215	12/B-E.5: Framing & Sheathing L1-L5	0	100	15FEB06 A	15MAR06 A
EE2-4105	12/B-E.5: Ext Layout & Clip Roof	0	100	16MAR06 A	17MAR06 A
EE2-4217	12/B-E.5: Sheet Metal Flashings	0	100	17MAR06 A	17MAR06 A
EE2-4215R	12/B-E.5: Framing & Sheathing L5-Roof	0	100	17MAR06 A	22MAR06 A
EE2-4216	12/B-E.5: Metal Lath & Trims	0	100	23MAR06 A	11APR06 A
EE2-4235	12/B-E.5: Punched Windows/Storefront	0	100	12APR06 A	17APR06 A
EE2-4225	12/B-E.5: Plaster Scratch	0	100	17APR06 A	19APR06 A
EE2-4226	12/B-E.5: Plaster Brown	0	100	19APR06 A	24APR06 A
EE2-4227	12/B-E.5: Plaster Finish	0	100	04MAY06 A	09MAY06 A
EE2-4265	12/B-E.5: Elastomeric Paint	0	100	24MAY06 A	30MAY06 A
EE2-4255	12/B-E.5: Remove Scaffold	0	100	31MAY06 A	01JUN06 A
EE2-4236	12/B-E.5: Curtain Wall	0	100	06JUN06 A	21JUN06 A
EE2-4900	12/B-E.5: Fins & Canopies	0	100	16JUN06 A	29JUL06 A
EE2-4205	12/B-E.5: Milestone Dry-In	0	100	21JUN06 A	
Exterior Facade C.7-B/3.5 & 3.5-12/B					
Exterior Enclosure					
EE1-4101	C.7-B/3.5 & 3.5-12/B: Ext Layout & Clip 2nd Flr	0	100	11JAN06 A	17JAN06 A
EE1-4102	C.7-B/3.5 & 3.5-12/B: Ext Layout & Clip 3rd Flr	0	100	20JAN06 A	25JAN06 A
EE1-4103	C.7-B/3.5 & 3.5-12/B: Ext Layout & Clip 4th Flr	0	100	30JAN06 A	02FEB06 A
EE1-4110	C.7-B/3.5 & 3.5-12/B: Set-Up Scaffold	0	100	09FEB06 A	22FEB06 A
EE1-4104	C.7-B/3.5 & 3.5-12/B: Ext Layout & Clip 5th Flr	0	100	15FEB06 A	22FEB06 A
EE1-4115	C.7-B/3.5 & 3.5-12/B: Framing & Sheathing L1-L5	0	100	23FEB06 A	21MAR06 A
EE1-4106	C.7-B/3.5 & 3.5-12/B: Ext Layout & Clip Roof	0	100	17MAR06 A	22MAR06 A
EE1-4146	C.7-B/3.5 & 3.5-12/B: Sheet Metal Flashings	0	100	20MAR06 A	20MAR06 A
EE1-4115R	C.7-B/3.5 & 3.5-12/B: Framing & Sheathing L5-RF	0	100	23MAR06 A	29MAR06 A
EE1-4116	C.7-B/3.5 & 3.5-12/B: Metal Lath & Trims	0	100	07APR06 A	24APR06 A
EE1-4135	C.7-B/3.5 & 3.5-12/B: Punched WIndows/Storefront	0	100	20APR06 A	26APR06 A
EE1-4125	C.7-B/3.5 & 3.5-12/B: Plaster Scratch	0	100	26APR06 A	03MAY06 A
EE1-4126	C.7-B/3.5 & 3.5-12/B: Plaster Brown	0	100	04MAY06 A	12MAY06 A
EE1-4127	C.7-B/3.5 & 3.5-12/B: Plaster Finish	0	100	12MAY06 A	19MAY06 A
EE1-4105	C.7-B/3.5 & 3.5-12/B: Milestone Dry-In	0	100	19MAY06 A	
EE1-4155	C.7-B/3.5 & 3.5-12/B: Elastomeric Paint	0	100	26MAY06 A	02JUN06 A



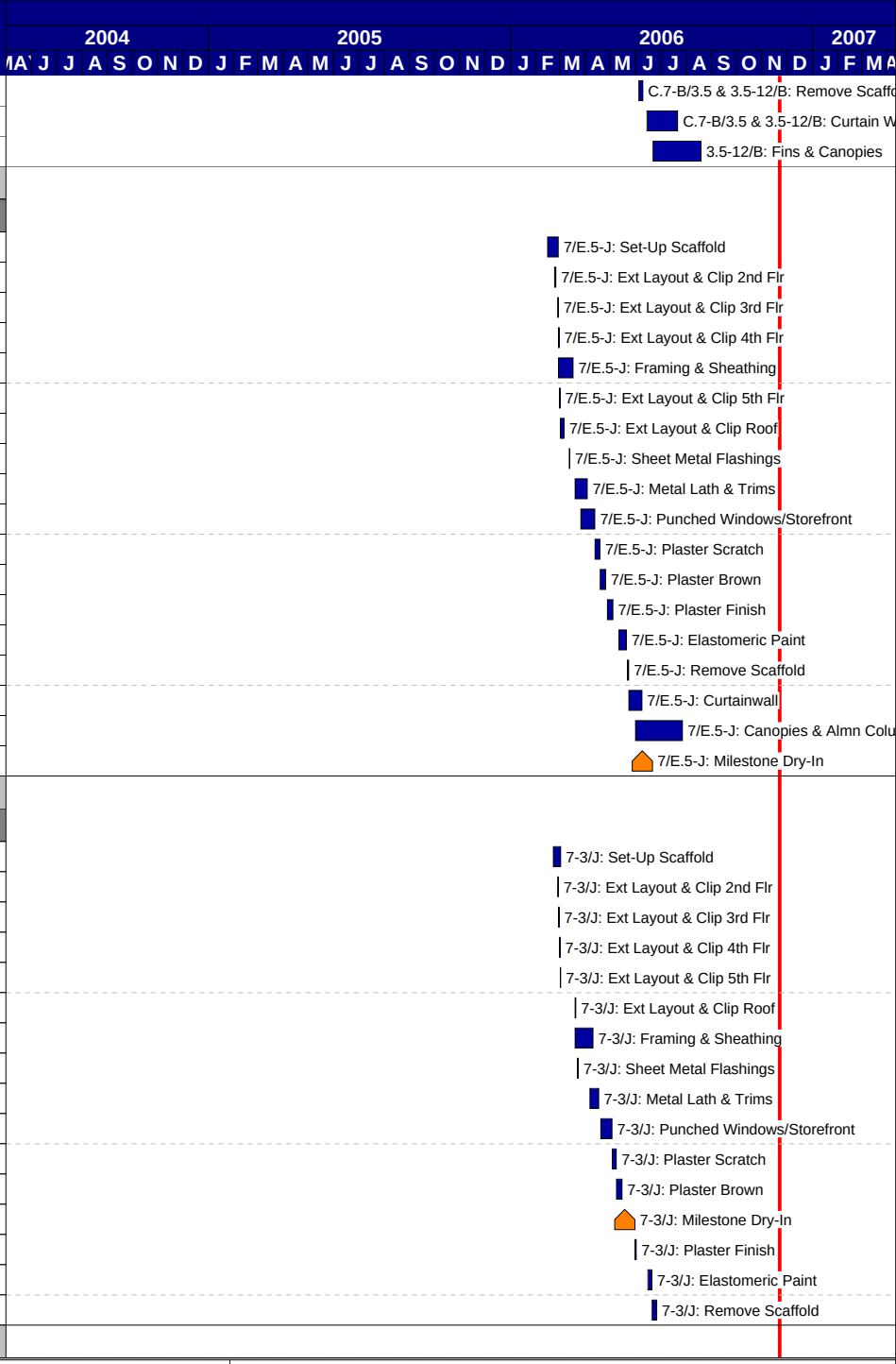
Data date	22NOV06
Finish date	27AUG06
Run date	04SEP08
Page number	17A
Number/Version	As-Built
Project name	611A

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
EE1-4145	C.7-B/3.5 & 3.5-12/B: Remove Scaffold	0	100	05JUN06 A	09JUN06 A
EE1-4136	C.7-B/3.5 & 3.5-12/B: Curtain Wall	0	100	15JUN06 A	21JUL06 A
EE1-4900	3.5-12/B: Fins & Canopies	0	100	22JUN06 A	18AUG06 A
Exterior Facade 7/E.5-J					
Exterior Enclosure					
EE4-4445	7/E.5-J: Set-Up Scaffold	0	100	15FEB06 A	27FEB06 A
EE4-4101	7/E.5-J: Ext Layout & Clip 2nd Flr	0	100	23FEB06 A	24FEB06 A
EE4-4102	7/E.5-J: Ext Layout & Clip 3rd Flr	0	100	27FEB06 A	27FEB06 A
EE4-4103	7/E.5-J: Ext Layout & Clip 4th Flr	0	100	28FEB06 A	28FEB06 A
EE4-4415	7/E.5-J: Framing & Sheathing	0	100	28FEB06 A	17MAR06 A
EE4-4104	7/E.5-J: Ext Layout & Clip 5th Flr	0	100	01MAR06 A	01MAR06 A
EE4-4105	7/E.5-J: Ext Layout & Clip Roof	0	100	02MAR06 A	06MAR06 A
EE4-4417	7/E.5-J: Sheet Metal Flashings	0	100	13MAR06 A	13MAR06 A
EE4-4416	7/E.5-J: Metal Lath & Trims	0	100	20MAR06 A	03APR06 A
EE4-4436	7/E.5-J: Punched Windows/Storefront	0	100	27MAR06 A	12APR06 A
EE4-4425	7/E.5-J: Plaster Scratch	0	100	13APR06 A	18APR06 A
EE4-4426	7/E.5-J: Plaster Brown	0	100	19APR06 A	25APR06 A
EE4-4427	7/E.5-J: Plaster Finish	0	100	28APR06 A	04MAY06 A
EE4-4465	7/E.5-J: Elastomeric Paint	0	100	12MAY06 A	20MAY06 A
EE4-4455	7/E.5-J: Remove Scaffold	0	100	22MAY06 A	23MAY06 A
EE4-4435	7/E.5-J: Curtainwall	0	100	24MAY06 A	08JUN06 A
EE4-4900	7/E.5-J: Canopies & Almn Column Covers	0	100	01JUN06 A	27JUL06 A
EE4-4405	7/E.5-J: Milestone Dry-In	0	100	09JUN06 A	
Exterior Facade 7-3/J					
Exterior Enclosure					
EE5-4555	7-3/J: Set-Up Scaffold	0	100	22FEB06 A	02MAR06 A
EE5-4101	7-3/J: Ext Layout & Clip 2nd Flr	0	100	27FEB06 A	27FEB06 A
EE5-4102	7-3/J: Ext Layout & Clip 3rd Flr	0	100	28FEB06 A	28FEB06 A
EE5-4103	7-3/J: Ext Layout & Clip 4th Flr	0	100	01MAR06 A	01MAR06 A
EE5-4104	7-3/J: Ext Layout & Clip 5th Flr	0	100	02MAR06 A	02MAR06 A
EE5-4105	7-3/J: Ext Layout & Clip Roof	0	100	20MAR06 A	20MAR06 A
EE5-4515	7-3/J: Framing & Sheathing	0	100	20MAR06 A	10APR06 A
EE5-4517	7-3/J: Sheet Metal Flashings	0	100	23MAR06 A	23MAR06 A
EE5-4516	7-3/J: Metal Lath & Trims	0	100	07APR06 A	17APR06 A
EE5-4535	7-3/J: Punched Windows/Storefront	0	100	20APR06 A	03MAY06 A
EE5-4525	7-3/J: Plaster Scratch	0	100	04MAY06 A	08MAY06 A
EE5-4526	7-3/J: Plaster Brown	0	100	09MAY06 A	15MAY06 A
EE5-4505	7-3/J: Milestone Dry-In	0	100	19MAY06 A	
EE5-4527	7-3/J: Plaster Finish	0	100	31MAY06 A	01JUN06 A
EE5-4565	7-3/J: Elastomeric Paint	0	100	16JUN06 A	20JUN06 A
EE5-4545	7-3/J: Remove Scaffold	0	100	21JUN06 A	26JUN06 A
Exterior Facade 3.5/J-C.7					



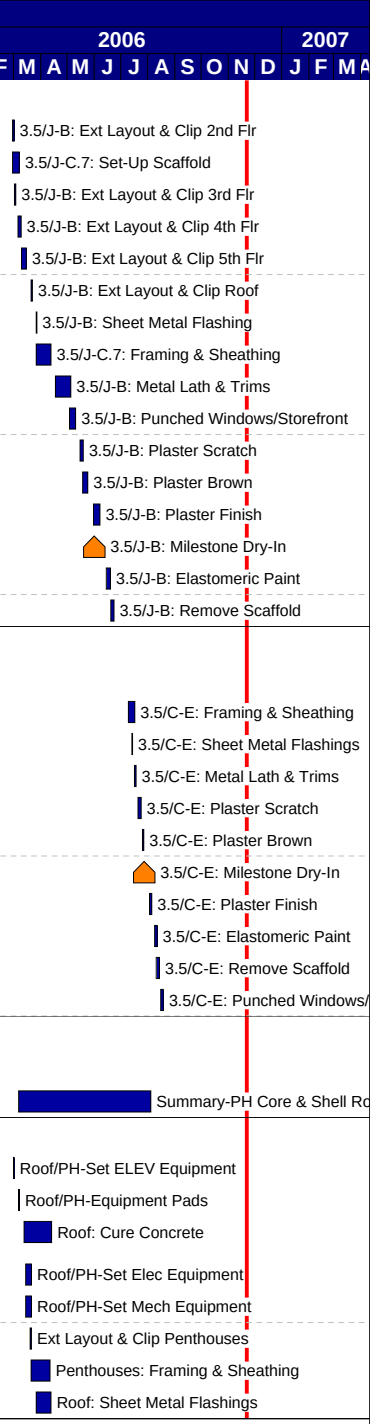
Data date	22NOV06
Finish date	27AUG06
Run date	04SEP08
Page number	18A
Number/Version	As-Built
Project name	611A

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
Exterior Enclosure					
EE6-4101	3.5/J-B: Ext Layout & Clip 2nd Flr	0	100	28FEB06 A	01MAR06 A
EE6-4655	3.5/J-C.7: Set-Up Scaffold	0	100	28FEB06 A	07MAR06 A
EE6-4102	3.5/J-B: Ext Layout & Clip 3rd Flr	0	100	02MAR06 A	03MAR06 A
EE6-4103	3.5/J-B: Ext Layout & Clip 4th Flr	0	100	06MAR06 A	09MAR06 A
EE6-4104	3.5/J-B: Ext Layout & Clip 5th Flr	0	100	10MAR06 A	15MAR06 A
EE6-4105	3.5/J-B: Ext Layout & Clip Roof	0	100	21MAR06 A	22MAR06 A
EE6-4617	3.5/J-B: Sheet Metal Flashing	0	100	27MAR06 A	27MAR06 A
EE6-4615	3.5/J-C.7: Framing & Sheathing	0	100	27MAR06 A	12APR06 A
EE6-4616	3.5/J-B: Metal Lath & Trims	0	100	18APR06 A	05MAY06 A
EE6-4635	3.5/J-B: Punched Windows/Storefront	0	100	04MAY06 A	10MAY06 A
EE6-4625	3.5/J-B: Plaster Scratch	0	100	16MAY06 A	19MAY06 A
EE6-4626	3.5/J-B: Plaster Brown	0	100	19MAY06 A	24MAY06 A
EE6-4627	3.5/J-B: Plaster Finish	0	100	31MAY06 A	07JUN06 A
EE6-4605	3.5/J-B: Milestone Dry-In	0	100	01JUN06 A	
EE6-4665	3.5/J-B: Elastomeric Paint	0	100	15JUN06 A	19JUN06 A
EE6-4645	3.5/J-B: Remove Scaffold	0	100	20JUN06 A	23JUN06 A
Exterior Facade 3.5/C-E (Manlift)					
Exterior Enclosure					
EE5-4515A	3.5/C-E: Framing & Sheathing	0	100	10JUL06 A	17JUL06 A
EE5-4517A	3.5/C-E: Sheet Metal Flashings	0	100	14JUL06 A	14JUL06 A
EE5-4516A	3.5/C-E: Metal Lath & Trims	0	100	17JUL06 A	18JUL06 A
EE5-4525A	3.5/C-E: Plaster Scratch	0	100	21JUL06 A	24JUL06 A
EEF-4526A	3.5/C-E: Plaster Brown	0	100	26JUL06 A	27JUL06 A
EE5-4505A	3.5/C-E: Milestone Dry-In	0	100	28JUL06 A	
EE5-4527A	3.5/C-E: Plaster Finish	0	100	03AUG06 A	05AUG06 A
EE5-4565A	3.5/C-E: Elastomeric Paint	0	100	09AUG06 A	11AUG06 A
EE5-4545A	3.5/C-E: Remove Scaffold	0	100	11AUG06 A	14AUG06 A
EE4-4535A	3.5/C-E: Punched Windows/Storefront	0	100	16AUG06 A	18AUG06 A
Roof & Penthouses					
General Items					
R-5605	Summary-PH Core & Shell Rough-Ins/Int Fin	0 *	100	07MAR06 A	04AUG06 A
Exterior Enclosure					
R-5620V	Roof/PH-Set ELEV Equipment	0	100	01MAR06 A	01MAR06 A
R-5610	Roof/PH-Equipment Pads	0	100	07MAR06 A	07MAR06 A
EER-4610	Roof: Cure Concrete	0	100	13MAR06 A	13APR06 A
R-5620E	Roof/PH-Set Elec Equipment	0	100	15MAR06 A	21MAR06 A
R-5620M	Roof/PH-Set Mech Equipment	0	100	15MAR06 A	21MAR06 A
EER-4106	Ext Layout & Clip Penthouses	0	100	20MAR06 A	21MAR06 A
EER-4615	Penthouses: Framing & Sheathing	0	100	21MAR06 A	11APR06 A
EER-4621	Roof: Sheet Metal Flashings	0	100	27MAR06 A	12APR06 A



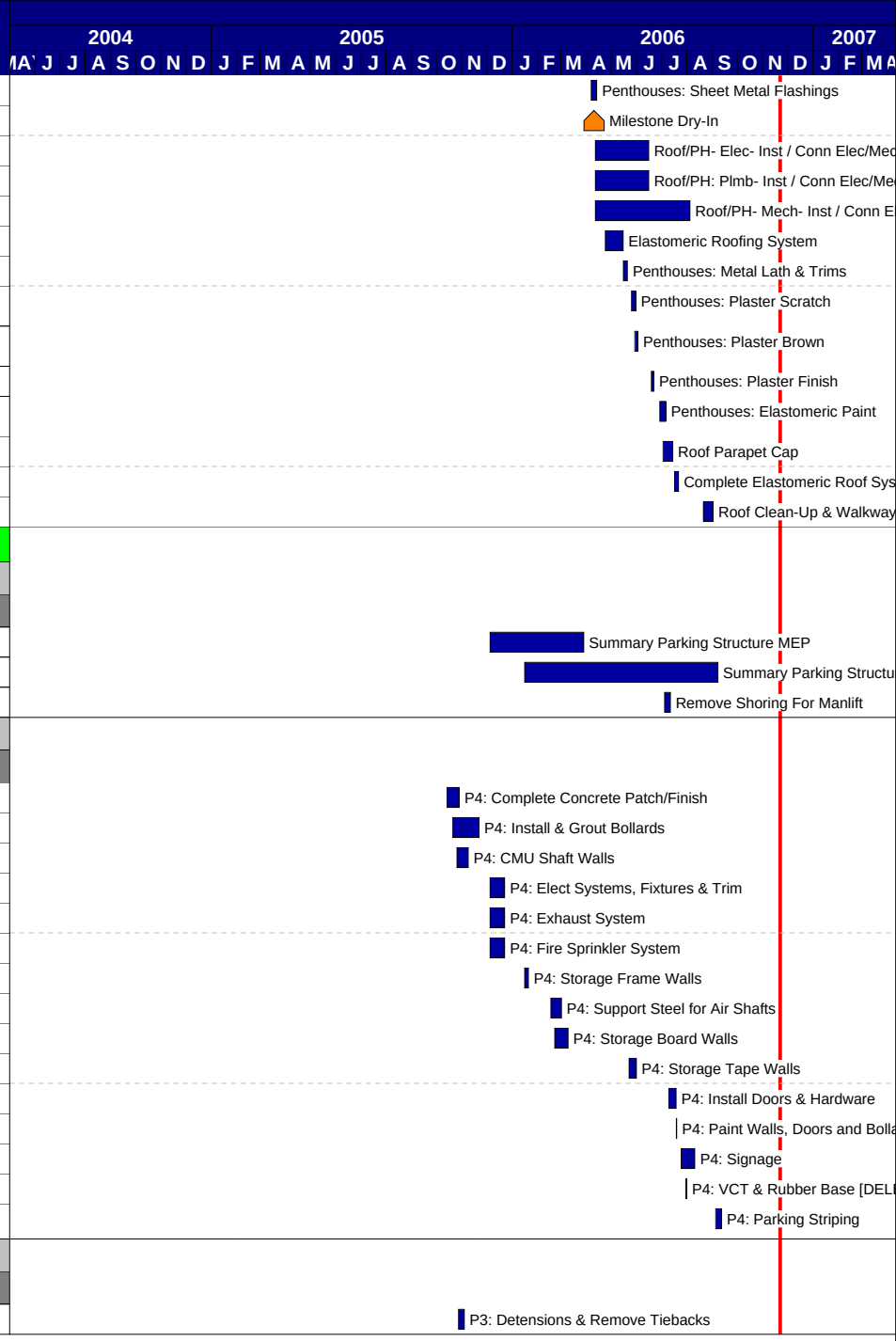
Data date	***22NOV06***
Finish date	***27AUG06***
Run date	***04SEP08***
Page number	***19A***
Number/Version	***As-Built***
Project name	***611A***

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
EER-4636	Penthouses: Sheet Metal Flashings	0	100	07APR06 A	13APR06 A
EER-4605	Milestone Dry-In	0	100	10APR06 A	
R-5625E	Roof/PH- Elec- Inst / Conn Elec/Mech Equip	0	100	12APR06 A	15JUN06 A
R-5625P	Roof/PH: Plmb- Inst / Conn Elec/Mech Equip	0	100	12APR06 A	15JUN06 A
R-5625M	Roof/PH- Mech- Inst / Conn Elec/Mech Equip	0	100	12APR06 A	04AUG06 A
EER-4600	Elastomeric Roofing System	0	100	24APR06 A	15MAY06 A
EER-4616	Penthouses: Metal Lath & Trims	0	100	16MAY06 A	20MAY06 A
EER-4625	Penthouses: Plaster Scratch	0	100	26MAY06 A	30MAY06 A
EER-4626	Penthouses: Plaster Brown	0	100	30MAY06 A	02JUN06 A
EER-4627	Penthouses: Plaster Finish	0	100	19JUN06 A	21JUN06 A
EER-4655	Penthouses: Elastomeric Paint	0	100	29JUN06 A	06JUL06 A
EER-4620	Roof Parapet Cap	0	100	03JUL06 A	14JUL06 A
EER-4640	Complete Elastomeric Roof System @ Manlift	0	100	17JUL06 A	21JUL06 A
EER-4630	Roof Clean-Up & Walkway Protection	0	100	21AUG06 A	01SEP06 A
Parking Finishes					
Summary					
General Items					
PSS-2005	Summary Parking Structure MEP	0 *	100	05DEC05 A	28MAR06 A
PSS-2000	Summary Parking Structure Finishes	0 *	100	16JAN06 A	07SEP06 A
PSS-2010	Remove Shoring For Manlift	0	100	05JUL06 A	11JUL06 A
Parking Level 4					
PL4-2135	P4: Complete Concrete Patch/Finish	0	100	14OCT05 A	28OCT05 A
PL4-2130	P4: Install & Grout Bollards	0	100	21OCT05 A	21NOV05 A
PL4-2145	P4: CMU Shaft Walls	0	100	26OCT05 A	08NOV05 A
PL4-2115	P4: Elect Systems, Fixtures & Trim	0	100	05DEC05 A	22DEC05 A
PL4-2120	P4: Exhaust System	0	100	05DEC05 A	22DEC05 A
PL4-2160	P4: Fire Sprinkler System	0	100	05DEC05 A	22DEC05 A
PL4-2110	P4: Storage Frame Walls	0	100	16JAN06 A	20JAN06 A
PL4-2165	P4: Support Steel for Air Shafts	0	100	17FEB06 A	01MAR06 A
PL4-2111	P4: Storage Board Walls	0	100	22FEB06 A	09MAR06 A
PL4-2111T	P4: Storage Tape Walls	0	100	23MAY06 A	31MAY06 A
PL4-2125	P4: Install Doors & Hardware	0	100	10JUL06 A	18JUL06 A
PL4-2140	P4: Paint Walls, Doors and Bollards (DELETED)	0	100	19JUL06 A	19JUL06 A
PL4-2451	P4: Signage	0	100	25JUL06 A	10AUG06 A
PL4-2150	P4: VCT & Rubber Base [DELETED]	0	100	31JUL06 A	31JUL06 A
PL4-2155	P4: Parking Striping	0	100	05SEP06 A	11SEP06 A
Parking Level 3					
PL3-1490	P3: Detensions & Remove Tiebacks	0	100	28OCT05 A	03NOV05 A



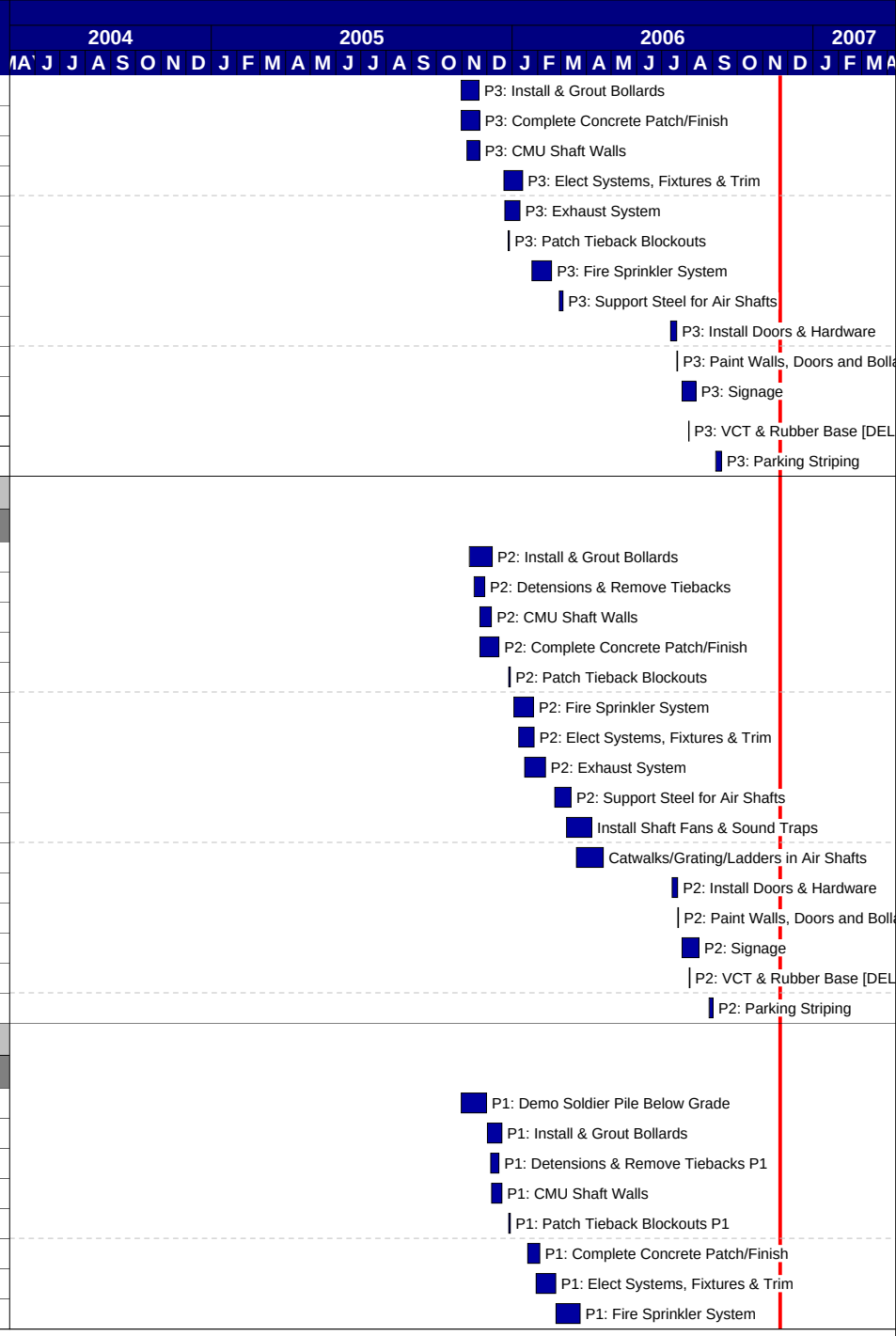
Data date	**22NOV06**
Finish date	**27AUG06**
Run date	**04SEP08**
Page number	**20A**
Number/Version	**As-Built**
Project name	**611A**

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
PL3-2235	P3: Install & Grout Bollards	0	100	31OCT05 A	21NOV05 A
PL3-2135	P3: Complete Concrete Patch/Finish	0	100	31OCT05 A	22NOV05 A
PL3-2145	P3: CMU Shaft Walls	0	100	07NOV05 A	22NOV05 A
PL3-2215	P3: Elect Systems, Fixtures & Trim	0	100	22DEC05 A	13JAN06 A
PL3-2220	P3: Exhaust System	0	100	23DEC05 A	10JAN06 A
PL3-1495	P3: Patch Tieback Blockouts	0	100	27DEC05 A	28DEC05 A
PL3-2216	P3: Fire Sprinkler System	0	100	25JAN06 A	17FEB06 A
PL3-2165	P3: Support Steel for Air Shafts	0	100	27FEB06 A	03MAR06 A
PL3-2230	P3: Install Doors & Hardware	0	100	12JUL06 A	19JUL06 A
PL3-2245	P3: Paint Walls, Doors and Bollards DELETED)	0	100	20JUL06 A	20JUL06 A
PL3-2351	P3: Signage	0	100	26JUL06 A	11AUG06 A
PL3-2250	P3: VCT & Rubber Base [DELETED]	0	100	03AUG06 A	03AUG06 A
PL3-2255	P3: Parking Striping	0	100	05SEP06 A	11SEP06 A
Parking Level 2					
PL2-2330	P2: Install & Grout Bollards	0	100	10NOV05 A	07DEC05 A
PL2-1590	P2: Detensions & Remove Tiebacks	0	100	16NOV05 A	28NOV05 A
PL2-2145	P2: CMU Shaft Walls	0	100	23NOV05 A	06DEC05 A
PL2-2135	P2: Complete Concrete Patch/Finish	0	100	23NOV05 A	15DEC05 A
PL2-1595	P2: Patch Tieback Blockouts	0	100	28DEC05 A	29DEC05 A
PL2-2316	P2: Fire Sprinkler System	0	100	03JAN06 A	26JAN06 A
PL2-2315	P2: Elect Systems, Fixtures & Trim	0	100	09JAN06 A	27JAN06 A
PL2-2320	P2: Exhaust System	0	100	16JAN06 A	10FEB06 A
PL2-2165	P2: Support Steel for Air Shafts	0	100	22FEB06 A	13MAR06 A
AS-2515	Install Shaft Fans & Sound Traps	0	100	08MAR06 A	07APR06 A
AS-2505	Catwalks/Grating/Ladders in Air Shafts	0	100	20MAR06 A	21APR06 A
PL2-2325	P2: Install Doors & Hardware	0	100	14JUL06 A	20JUL06 A
PL2-2335	P2: Paint Walls, Doors and Bollards (DELETED)	0	100	21JUL06 A	21JUL06 A
PL2-2251	P2: Signage	0	100	26JUL06 A	15AUG06 A
PL2-2340	P2: VCT & Rubber Base [DELETED]	0	100	04AUG06 A	04AUG06 A
PL2-2345	P2: Parking Striping	0	100	28AUG06 A	01SEP06 A
Parking Level 1					
PL1-1695	P1: Demo Soldier Pile Below Grade	0	100	31OCT05 A	30NOV05 A
PL1-2435	P1: Install & Grout Bollards	0	100	02DEC05 A	19DEC05 A
PL1-1685	P1: Detensions & Remove Tiebacks P1	0	100	06DEC05 A	15DEC05 A
PL1-2145	P1: CMU Shaft Walls	0	100	07DEC05 A	19DEC05 A
PL1-1690	P1: Patch Tieback Blockouts P1	0	100	28DEC05 A	29DEC05 A
PL1-2135	P1: Complete Concrete Patch/Finish	0	100	20JAN06 A	03FEB06 A
PL1-2420	P1: Elect Systems, Fixtures & Trim	0	100	30JAN06 A	22FEB06 A
PL1-2416	P1: Fire Sprinkler System	0	100	23FEB06 A	24MAR06 A



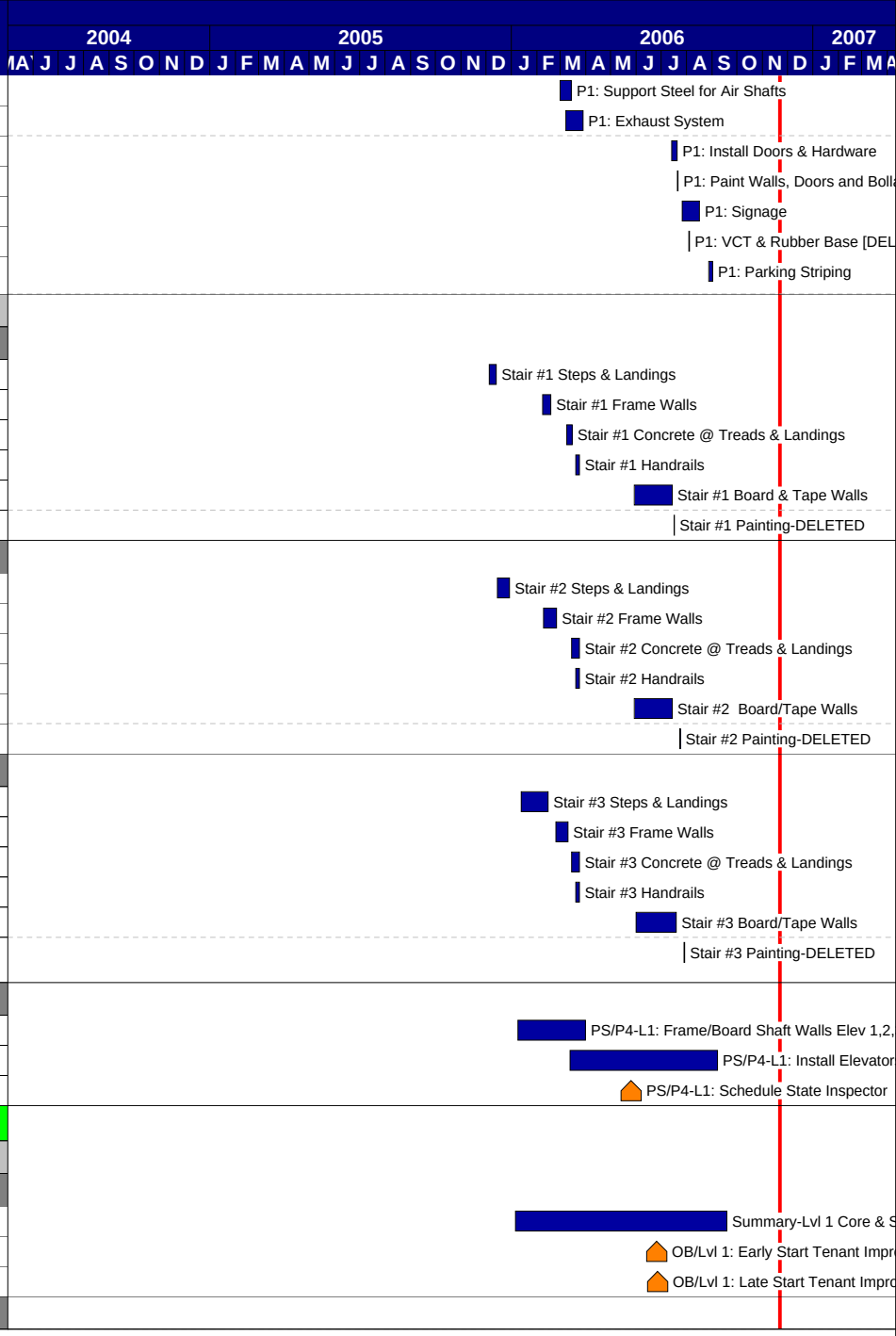
Data date	22NOV06
Finish date	27AUG06
Run date	04SEP08
Page number	21A
Number/Version	As-Built
Project name	611A

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
PL1-2165	P1: Support Steel for Air Shafts	0	100	01MAR06 A	14MAR06 A
PL1-2425	P1: Exhaust System	0	100	08MAR06 A	28MAR06 A
PL1-2430	P1: Install Doors & Hardware	0	100	14JUL06 A	20JUL06 A
PL1-2440	P1: Paint Walls, Doors and Bollards (DELETED)	0	100	21JUL06 A	21JUL06 A
PL1-2151	P1: Signage	0	100	27JUL06 A	16AUG06 A
PL1-2445	P1: VCT & Rubber Base [DELETED]	0	100	04AUG06 A	04AUG06 A
PL1-2450	P1: Parking Striping	0	100	28AUG06 A	01SEP06 A
Vertical Transportation: Parking Levels					
Parking Lvls / Stair #1					
PS1-2705	Stair #1 Steps & Landings	0	100	05DEC05 A	13DEC05 A
PS1-2715	Stair #1 Frame Walls	0	100	08FEB06 A	17FEB06 A
PS1-2710	Stair #1 Concrete @ Treads & Landings	0	100	09MAR06 A	15MAR06 A
PS1-2720	Stair #1 Handrails	0	100	20MAR06 A	24MAR06 A
PS1-2715BT	Stair #1 Board & Tape Walls	0	100	30MAY06 A	14JUL06 A
PS1-2730	Stair #1 Painting-DELETED	0	100	17JUL06 A	17JUL06 A
Parking Lvls / Stair #2					
PS2-2750	Stair #2 Steps & Landings	0	100	15DEC05 A	29DEC05 A
PS2-2760	Stair #2 Frame Walls	0	100	09FEB06 A	24FEB06 A
PS2-2755	Stair #2 Concrete @ Treads & Landings	0	100	15MAR06 A	24MAR06 A
PS2-2770	Stair #2 Handrails	0	100	20MAR06 A	24MAR06 A
PS2-2760BT	Stair #2 Board/Tape Walls	0	100	30MAY06 A	14JUL06 A
PS2-2780	Stair #2 Painting-DELETED	0	100	24JUL06 A	24JUL06 A
Parking Lvls / Stair #3					
PS3-2785	Stair #3 Steps & Landings	0	100	13JAN06 A	14FEB06 A
PS3-2787	Stair #3 Frame Walls	0	100	24FEB06 A	10MAR06 A
PS3-2786	Stair #3 Concrete @ Treads & Landings	0	100	15MAR06 A	24MAR06 A
PS3-2788	Stair #3 Handrails	0	100	20MAR06 A	24MAR06 A
PS3-2787BT	Stair #3 Board/Tape Walls	0	100	01JUN06 A	19JUL06 A
PS3-2798	Stair #3 Painting-DELETED	0	100	29JUL06 A	29JUL06 A
Elevators 1,2,3,7					
PVT-2605	PS/P4-L1: Frame/Board Shaft Walls Elev 1,2,3,7	0	100	09JAN06 A	31MAR06 A
PVT-2610	PS/P4-L1: Install Elevators 1,2,3 (7 Completed)	0	100	13MAR06 A	07SEP06 A
PVT-2620	PS/P4-L1: Schedule State Inspector	0	100	26MAY06 A	
Office Rough-In & Finishes					
1st Floor/Ground Level					
General Items					
1-5105	Summary-Lvl 1 Core & Shell Rough-Ins/Int Fin	0 *	100	06JAN06 A	18SEP06 A
OB1-5129	OB/Lvl 1: Early Start Tenant Improvements	0	100	26JUN06 A	
OB1-5130	OB/Lvl 1: Late Start Tenant Improvements	0	100		26JUN06 A
Rough-In South					



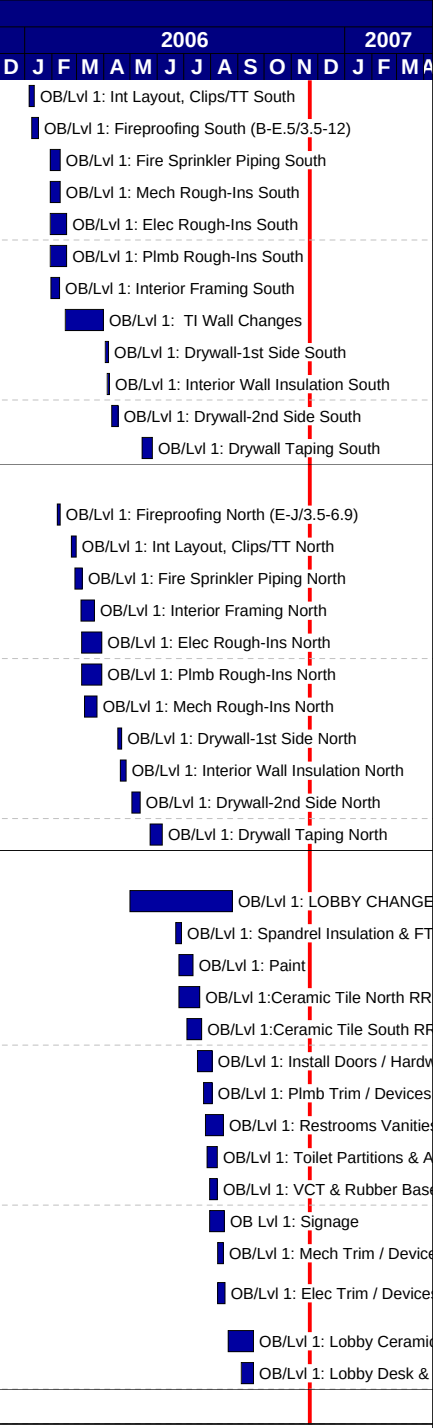
Data date	22NOV06
Finish date	27AUG06
Run date	04SEP08
Page number	22A
Number/Version	As-Built
Project name	611A

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
OB1-5150	OB/Lvl 1: Int Layout, Clips/TT South	0	100	06JAN06 A	11JAN06 A
OB1-5109	OB/Lvl 1: Fireproofing South (B-E.5/3.5-12)	0	100	09JAN06 A	16JAN06 A
OB1-5115F	OB/Lvl 1: Fire Sprinkler Piping South	0	100	30JAN06 A	10FEB06 A
OB1-5115M	OB/Lvl 1: Mech Rough-Ins South	0	100	30JAN06 A	10FEB06 A
OB1-5115E	OB/Lvl 1: Elec Rough-Ins South	0	100	30JAN06 A	17FEB06 A
OB1-5115P	OB/Lvl 1: Plmb Rough-Ins South	0	100	30JAN06 A	17FEB06 A
OB1-5120	OB/Lvl 1: Interior Framing South	0	100	31JAN06 A	09FEB06 A
OB1-5155	OB/Lvl 1: TI Wall Changes	0	100	16FEB06 A	31MAR06 A
OB1-5125	OB/Lvl 1: Drywall-1st Side South	0	100	03APR06 A	06APR06 A
OB1-5175	OB/Lvl 1: Interior Wall Insulation South	0	100	05APR06 A	07APR06 A
OB1-5126	OB/Lvl 1: Drywall-2nd Side South	0	100	10APR06 A	17APR06 A
OB1-5136	OB/Lvl 1: Drywall Taping South	0	100	15MAY06 A	26MAY06 A
Rough-In North					
OB1-5110	OB/Lvl 1: Fireproofing North (E-J/3.5-6.9)	0	100	07FEB06 A	10FEB06 A
OB1-5151	OB/Lvl 1: Int Layout, Clips/TT North	0	100	23FEB06 A	28FEB06 A
OB1-5116F	OB/Lvl 1: Fire Sprinkler Piping North	0	100	27FEB06 A	07MAR06 A
OB1-5121	OB/Lvl 1: Interior Framing North	0	100	06MAR06 A	21MAR06 A
OB1-5116E	OB/Lvl 1: Elec Rough-Ins North	0	100	07MAR06 A	29MAR06 A
OB1-5116P	OB/Lvl 1: Plmb Rough-Ins North	0	100	07MAR06 A	29MAR06 A
OB1-5116M	OB/Lvl 1: Mech Rough-Ins North	0	100	10MAR06 A	24MAR06 A
OB1-5127	OB/Lvl 1: Drywall-1st Side North	0	100	17APR06 A	21APR06 A
OB1-5176	OB/Lvl 1: Interior Wall Insulation North	0	100	20APR06 A	26APR06 A
OB1-5128	OB/Lvl 1: Drywall-2nd Side North	0	100	03MAY06 A	12MAY06 A
OB1-5137	OB/Lvl 1: Drywall Taping North	0	100	24MAY06 A	06JUN06 A
Finishes South & North					
OB1-5199	OB/Lvl 1: LOBBY CHANGES SCHEDULE IMPACT	0	100	01MAY06 A	25AUG06 A
OB1-5185	OB/Lvl 1: Spandrel Insulation & FTF Fire Stop	0	100	22JUN06 A	28JUN06 A
OB1-5155P	OB/Lvl 1: Paint	0	100	26JUN06 A	11JUL06 A
OB1-5157F	OB/Lvl 1:Ceramic Tile North RR	0	100	26JUN06 A	19JUL06 A
OB1-5156F	OB/Lvl 1:Ceramic Tile South RR	0	100	05JUL06 A	21JUL06 A
OB1-5145	OB/Lvl 1: Install Doors / Hardware	0	100	17JUL06 A	02AUG06 A
OB1-5150P	OB/Lvl 1: Plmb Trim / Devices	0	100	24JUL06 A	02AUG06 A
OB1-5140	OB/Lvl 1: Restrooms Vanities & FRP @ JClosets	0	100	26JUL06 A	15AUG06 A
OB1-5151F	OB/Lvl 1: Toilet Partitions & Accessories	0	100	28JUL06 A	08AUG06 A
OB1-5155F	OB/Lvl 1: VCT & Rubber Base	0	100	31JUL06 A	08AUG06 A
OB1-2151	OB Lvl 1: Signage	0	100	31JUL06 A	16AUG06 A
OB1-5150M	OB/Lvl 1: Mech Trim / Devices	0	100	09AUG06 A	15AUG06 A
OB1-5150E	OB/Lvl 1: Elec Trim / Devices	0	100	09AUG06 A	17AUG06 A
OB1-5135	OB/Lvl 1: Lobby Ceramic Tile	0	100	21AUG06 A	18SEP06 A
OB1-5141F	OB/Lvl 1: Lobby Desk & Millwork	0	100	05SEP06 A	18SEP06 A
2nd Floor					



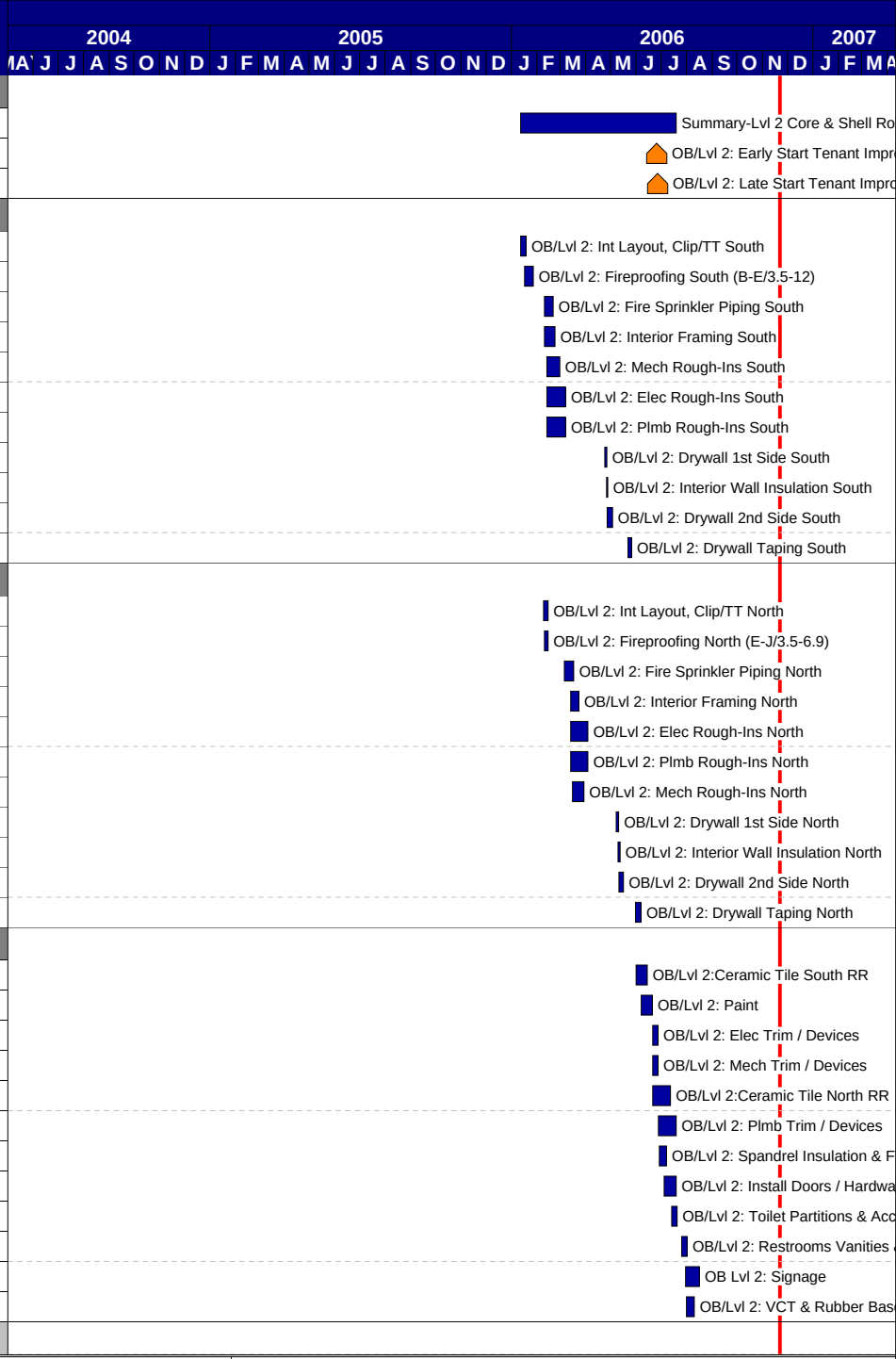
Data date	22NOV06
Finish date	27AUG06
Run date	04SEP08
Page number	23A
Number/Version	As-Built
Project name	611A

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
General Items					
2-5205	Summary-Lvl 2 Core & Shell Rough-Ins/Int Fin	0 *	100	12JAN06 A	19JUL06 A
OB2-5229	OB/Lvl 2: Early Start Tenant Improvements	0	100	26JUN06 A	
OB2-5230	OB/Lvl 2: Late Start Tenant Improvements	0	100		26JUN06 A
Rough-In South					
OB2-5207	OB/Lvl 2: Int Layout, Clip/TT South	0	100	12JAN06 A	18JAN06 A
OB2-5209	OB/Lvl 2: Fireproofing South (B-E/3.5-12)	0	100	17JAN06 A	27JAN06 A
OB2-5215F	OB/Lvl 2: Fire Sprinkler Piping South	0	100	10FEB06 A	20FEB06 A
OB2-5220	OB/Lvl 2: Interior Framing South	0	100	10FEB06 A	22FEB06 A
OB2-5215M	OB/Lvl 2: Mech Rough-Ins South	0	100	13FEB06 A	28FEB06 A
OB2-5215E	OB/Lvl 2: Elec Rough-Ins South	0	100	13FEB06 A	07MAR06 A
OB2-5215P	OB/Lvl 2: Plmb Rough-Ins South	0	100	13FEB06 A	07MAR06 A
OB2-5225	OB/Lvl 2: Drywall 1st Side South	0	100	24APR06 A	26APR06 A
OB2-5275	OB/Lvl 2: Interior Wall Insulation South	0	100	26APR06 A	27APR06 A
OB2-5226	OB/Lvl 2: Drywall 2nd Side South	0	100	27APR06 A	03MAY06 A
OB2-5231	OB/Lvl 2: Drywall Taping South	0	100	22MAY06 A	26MAY06 A
Rough-In North					
OB2-5208	OB/Lvl 2: Int Layout, Clip/TT North	0	100	09FEB06 A	14FEB06 A
OB2-5210	OB/Lvl 2: Fireproofing North (E-J/3.5-6.9)	0	100	10FEB06 A	14FEB06 A
0B2-5216F	OB/Lvl 2: Fire Sprinkler Piping North	0	100	06MAR06 A	17MAR06 A
OB2-5221	OB/Lvl 2: Interior Framing North	0	100	14MAR06 A	23MAR06 A
OB2-5216E	OB/Lvl 2: Elec Rough-Ins North	0	100	14MAR06 A	03APR06 A
OB2-5216P	OB/Lvl 2: Plmb Rough-Ins North	0	100	14MAR06 A	03APR06 A
OB2-5216M	OB/Lvl 2: Mech Rough-Ins North	0	100	16MAR06 A	29MAR06 A
OB2-5227	OB/Lvl 2: Drywall 1st Side North	0	100	08MAY06 A	10MAY06 A
OB2-5276	OB/Lvl 2: Interior Wall Insulation North	0	100	10MAY06 A	12MAY06 A
OB2-5228	OB/Lvl 2: Drywall 2nd Side North	0	100	11MAY06 A	16MAY06 A
OB2-5232	OB/Lvl 2: Drywall Taping North	0	100	31MAY06 A	06JUN06 A
Finishes South & North					
OB2-5256F	OB/Lvl 2:Ceramic Tile South RR	0	100	01JUN06 A	14JUN06 A
OB2-5250P	OB/Lvl 2: Paint	0	100	07JUN06 A	20JUN06 A
OB2-5245E	OB/Lvl 2: Elec Trim / Devices	0	100	21JUN06 A	27JUN06 A
OB2-5245M	OB/Lvl 2: Mech Trim / Devices	0	100	21JUN06 A	27JUN06 A
OB2-5257F	OB/Lvl 2:Ceramic Tile North RR	0	100	21JUN06 A	12JUL06 A
OB2-5245P	OB/Lvl 2: Plmb Trim / Devices	0	100	28JUN06 A	19JUL06 A
OB2-5285	OB/Lvl 2: Spandrel Insulation & FTF Fire Stop	0	100	29JUN06 A	07JUL06 A
OB2-5240	OB/Lvl 2: Install Doors / Hardware	0	100	05JUL06 A	19JUL06 A
OB2-5251F	OB/Lvl 2: Toilet Partitions & Accessories	0	100	14JUL06 A	20JUL06 A
OB2-5235	OB/Lvl 2: Restrooms Vanities & FRP @ JClosets	0	100	26JUL06 A	01AUG06 A
OB2-2251	OB Lvl 2: Signage	0	100	31JUL06 A	16AUG06 A
OB2-5250F	OB/Lvl 2: VCT & Rubber Base	0	100	01AUG06 A	10AUG06 A
3rd Floor					



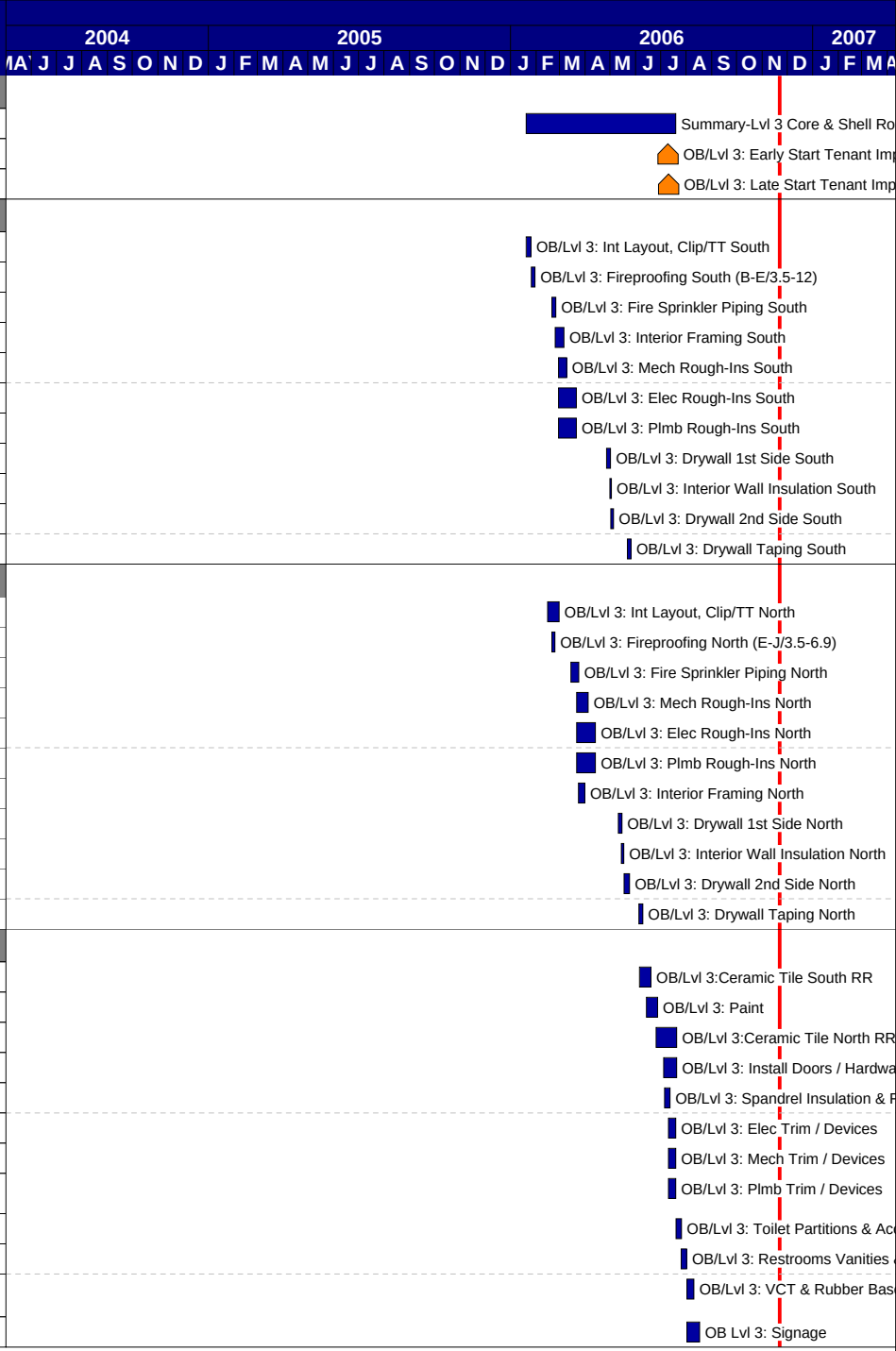
Data date	***22NOV06***
Finish date	***27AUG06***
Run date	***04SEP08***
Page number	***24A***
Number/Version	***As-Built***
Project name	***611A***

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
General Items					
OB3-5305	Summary-Lvl 3 Core & Shell Rough-Ins/Int Fin	0 *	100	20JAN06 A	19JUL06 A
OB3-5329	OB/Lvl 3: Early Start Tenant Improvements	0	100	10JUL06 A	
OB3-5330	OB/Lvl 3: Late Start Tenant Improvements	0	100		10JUL06 A
Rough-In South					
OB3-5319	OB/Lvl 3: Int Layout, Clip/TT South	0	100	20JAN06 A	25JAN06 A
OB3-5309	OB/Lvl 3: Fireproofing South (B-E/3.5-12)	0	100	26JAN06 A	30JAN06 A
OB3-5315F	OB/Lvl 3: Fire Sprinkler Piping South	0	100	20FEB06 A	24FEB06 A
OB3-5320	OB/Lvl 3: Interior Framing South	0	100	24FEB06 A	06MAR06 A
OB3-5315M	OB/Lvl 3: Mech Rough-Ins South	0	100	28FEB06 A	09MAR06 A
OB3-5315E	OB/Lvl 3: Elec Rough-Ins South	0	100	28FEB06 A	21MAR06 A
OB3-5315P	OB/Lvl 3: Plmb Rough-Ins South	0	100	28FEB06 A	21MAR06 A
OB3-5325	OB/Lvl 3: Drywall 1st Side South	0	100	27APR06 A	01MAY06 A
OB3-5375	OB/Lvl 3: Interior Wall Insulation South	0	100	01MAY06 A	02MAY06 A
OB3-5326	OB/Lvl 3: Drywall 2nd Side South	0	100	02MAY06 A	05MAY06 A
OB3-5327	OB/Lvl 3: Drywall Taping South	0	100	22MAY06 A	26MAY06 A
Rough-In North					
OB3-5321	OB/Lvl 3: Int Layout, Clip/TT North	0	100	15FEB06 A	28FEB06 A
OB3-5310	OB/Lvl 3: Fireproofing North (E-J/3.5-6.9)	0	100	20FEB06 A	23FEB06 A
OB3-5316F	OB/Lvl 3: Fire Sprinkler Piping North	0	100	15MAR06 A	24MAR06 A
OB3-5316M	OB/Lvl 3: Mech Rough-Ins North	0	100	22MAR06 A	04APR06 A
OB3-5316E	OB/Lvl 3: Elec Rough-Ins North	0	100	22MAR06 A	13APR06 A
OB3-5316P	OB/Lvl 3: Plmb Rough-Ins North	0	100	22MAR06 A	13APR06 A
OB3-5322	OB/Lvl 3: Interior Framing North	0	100	24MAR06 A	31MAR06 A
OB3-5328	OB/Lvl 3: Drywall 1st Side North	0	100	11MAY06 A	15MAY06 A
OB3-5376	OB/Lvl 3: Interior Wall Insulation North	0	100	15MAY06 A	17MAY06 A
OB3-5332	OB/Lvl 3: Drywall 2nd Side North	0	100	18MAY06 A	24MAY06 A
OB3-5333	OB/Lvl 3: Drywall Taping North	0	100	05JUN06 A	09JUN06 A
Finishes South & North					
OB3-5356F	OB/Lvl 3:Ceramic Tile South RR	0	100	06JUN06 A	19JUN06 A
OB3-5350P	OB/Lvl 3: Paint	0	100	14JUN06 A	27JUN06 A
OB3-5357F	OB/Lvl 3:Ceramic Tile North RR	0	100	26JUN06 A	20JUL06 A
OB3-5340	OB/Lvl 3: Install Doors / Hardware	0	100	05JUL06 A	20JUL06 A
OB3-5385	OB/Lvl 3: Spandrel Insulation & FTF Fire Stop	0	100	06JUL06 A	12JUL06 A
OB3-5345E	OB/Lvl 3: Elec Trim / Devices	0	100	11JUL06 A	19JUL06 A
OB3-5345M	OB/Lvl 3: Mech Trim / Devices	0	100	11JUL06 A	19JUL06 A
OB3-5345P	OB/Lvl 3: Plmb Trim / Devices	0	100	11JUL06 A	19JUL06 A
OB3-5351F	OB/Lvl 3: Toilet Partitions & Accessories	0	100	20JUL06 A	26JUL06 A
OB3-5335	OB/Lvl 3: Restrooms Vanities & FRP @ JClosets	0	100	26JUL06 A	01AUG06 A
OB3-5350F	OB/Lvl 3: VCT & Rubber Base	0	100	02AUG06 A	10AUG06 A
OB3-2351	OB Lvl 3: Signage	0	100	02AUG06 A	17AUG06 A



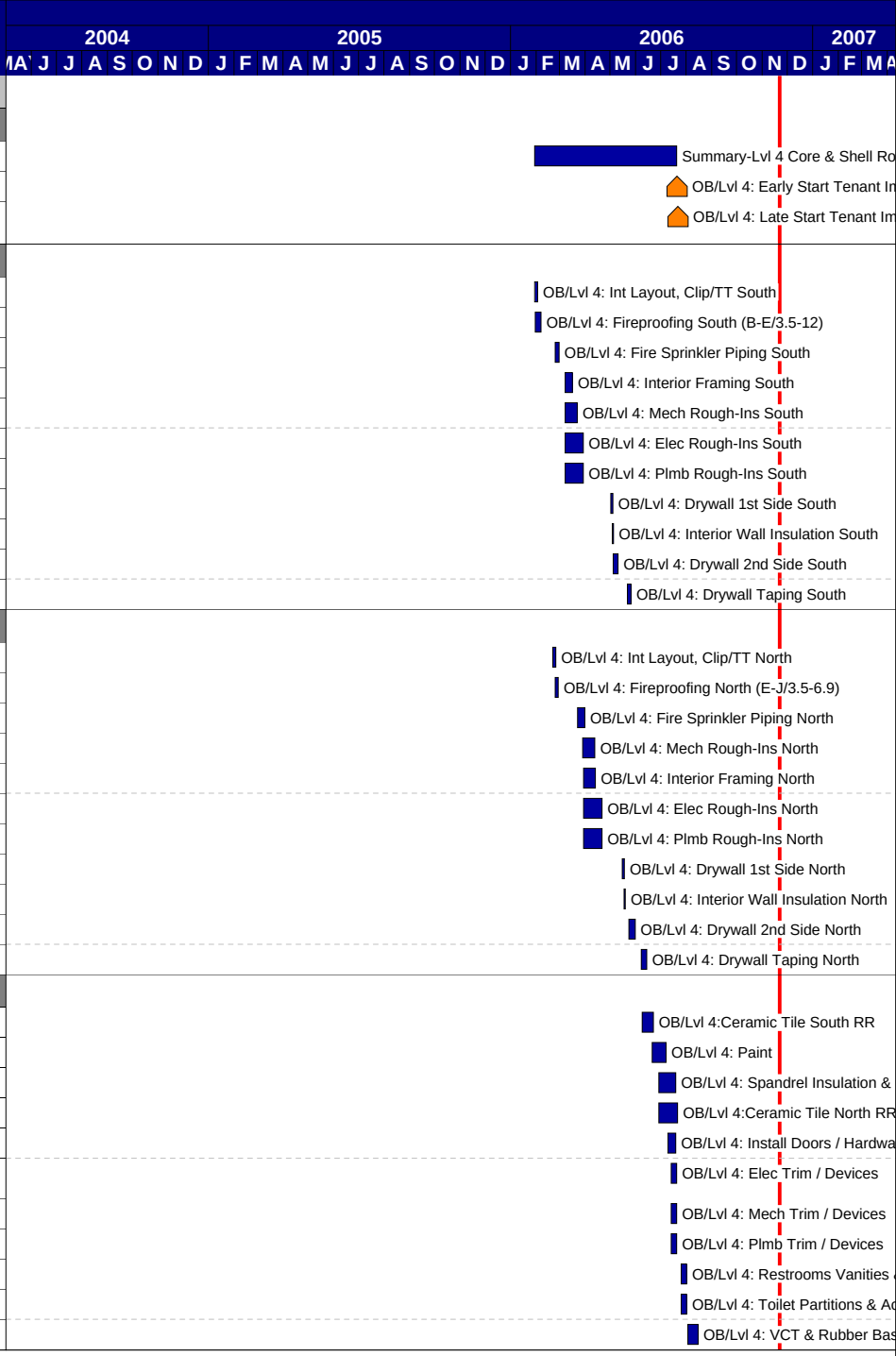
Data date	***22NOV06***
Finish date	***27AUG06***
Run date	***04SEP08***
Page number	***25A***
Number/Version	***As-Built***
Project name	***611A***

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
4th Floor					
General Items					
OB4-5405	Summary-Lvl 4 Core & Shell Rough-Ins/Int Fin	0 *	100	30JAN06 A	20JUL06 A
OB4-5429	OB/Lvl 4: Early Start Tenant Improvements	0	100	21JUL06 A	
OB4-5430	OB/Lvl 4: Late Start Tenant Improvements	0	100		21JUL06 A
Rough-In South					
OB4-5407	OB/Lvl 4: Int Layout, Clip/TT South	0	100	30JAN06 A	02FEB06 A
OB4-5409	OB/Lvl 4: Fireproofing South (B-E/3.5-12)	0	100	31JAN06 A	06FEB06 A
OB4-5415F	OB/Lvl 4: Fire Sprinkler Piping South	0	100	24FEB06 A	28FEB06 A
OB4-5420	OB/Lvl 4: Interior Framing South	0	100	08MAR06 A	16MAR06 A
OB4-5415M	OB/Lvl 4: Mech Rough-Ins South	0	100	08MAR06 A	22MAR06 A
OB4-5415E	OB/Lvl 4: Elec Rough-Ins South	0	100	08MAR06 A	29MAR06 A
OB4-5415P	OB/Lvl 4: Plmb Rough-Ins South	0	100	08MAR06 A	29MAR06 A
OB4-5425	OB/Lvl 4: Drywall 1st Side South	0	100	02MAY06 A	04MAY06 A
OB4-5475	OB/Lvl 4: Interior Wall Insulation South	0	100	04MAY06 A	05MAY06 A
OB4-5426	OB/Lvl 4: Drywall 2nd Side South	0	100	05MAY06 A	10MAY06 A
OB4-5427	OB/Lvl 4: Drywall Taping South	0	100	22MAY06 A	26MAY06 A
Rough-In North					
OB4-5408	OB/Lvl 4: Int Layout, Clip/TT North	0	100	21FEB06 A	24FEB06 A
OB4-5410	OB/Lvl 4: Fireproofing North (E-J/3.5-6.9)	0	100	24FEB06 A	27FEB06 A
OB4-5416F	OB/Lvl 4: Fire Sprinkler Piping North	0	100	23MAR06 A	31MAR06 A
OB4-5416M	OB/Lvl 4: Mech Rough-Ins North	0	100	29MAR06 A	12APR06 A
OB4-5421	OB/Lvl 4: Interior Framing North	0	100	30MAR06 A	13APR06 A
OB4-5416E	OB/Lvl 4: Elec Rough-Ins North	0	100	30MAR06 A	21APR06 A
OB4-5416P	OB/Lvl 4: Plmb Rough-Ins North	0	100	30MAR06 A	21APR06 A
OB4-5428	OB/Lvl 4: Drywall 1st Side North	0	100	16MAY06 A	18MAY06 A
OB4-5476	OB/Lvl 4: Interior Wall Insulation North	0	100	18MAY06 A	19MAY06 A
OB4-5436	OB/Lvl 4: Drywall 2nd Side North	0	100	24MAY06 A	31MAY06 A
OB4-5437	OB/Lvl 4: Drywall Taping North	0	100	08JUN06 A	14JUN06 A
Finishes South & North					
OB4-5456F	OB/Lvl 4:Ceramic Tile South RR	0	100	09JUN06 A	22JUN06 A
OB4-5450P	OB/Lvl 4: Paint	0	100	21JUN06 A	07JUL06 A
OB4-5485	OB/Lvl 4: Spandrel Insulation & FTF Fire Stop	0	100	29JUN06 A	19JUL06 A
OB4-5457F	OB/Lvl 4:Ceramic Tile North RR	0	100	29JUN06 A	21JUL06 A
OB4-5440	OB/Lvl 4: Install Doors / Hardware	0	100	10JUL06 A	19JUL06 A
OB4-5445E	OB/Lvl 4: Elec Trim / Devices	0	100	14JUL06 A	20JUL06 A
OB4-5445M	OB/Lvl 4: Mech Trim / Devices	0	100	14JUL06 A	20JUL06 A
OB4-5445P	OB/Lvl 4: Plmb Trim / Devices	0	100	14JUL06 A	20JUL06 A
OB4-5435	OB/Lvl 4: Restrooms Vanities & FRP @ JClosets	0	100	26JUL06 A	01AUG06 A
OB4-5451F	OB/Lvl 4: Toilet Partitions & Accessories	0	100	26JUL06 A	01AUG06 A
OB4-5450F	OB/Lvl 4: VCT & Rubber Base	0	100	03AUG06 A	15AUG06 A



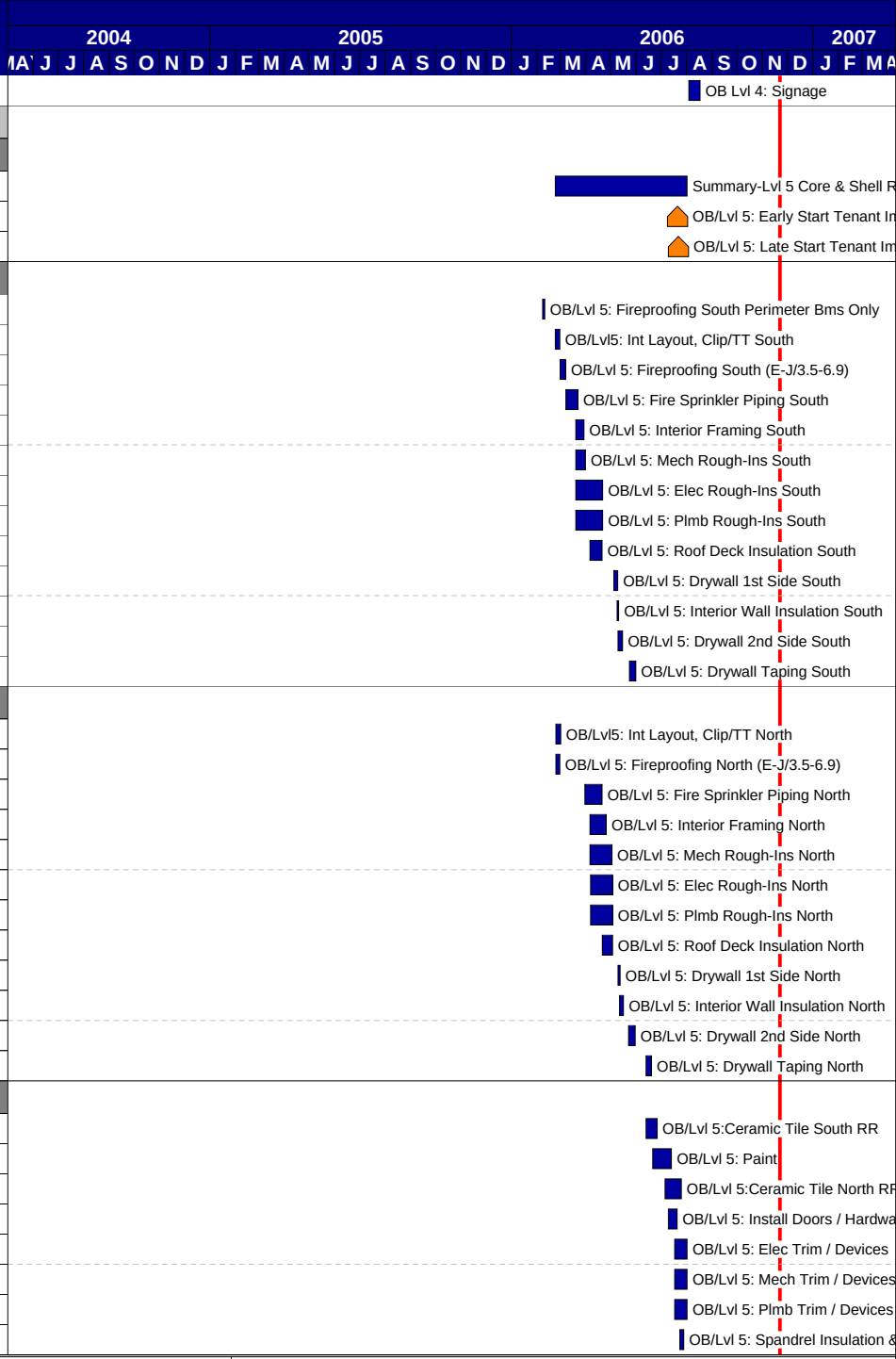
Data date	22NOV06
Finish date	27AUG06
Run date	04SEP08
Page number	26A
Number/Version	As-Built
Project name	611A

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
OB4-2451	OB Lvl 4: Signage	0	100	04AUG06 A	17AUG06 A
5th Floor					
General Items					
OB5-5505	Summary-Lvl 5 Core & Shell Rough-Ins/Int Fin	0 *	100	23FEB06 A	01AUG06 A
OB5-5529	OB/Lvl 5: Early Start Tenant Improvements	0	100	21JUL06 A	
OB5-5530	OB/Lvl 5: Late Start Tenant Improvements	0	100		21JUL06 A
Rough-In South					
OB5-5509P	OB/Lvl 5: Fireproofing South Perimeter Bms Only	0	100	08FEB06 A	10FEB06 A
OB5-5507	OB/Lvl5: Int Layout, Clip/TT South	0	100	23FEB06 A	28FEB06 A
OB5-5509	OB/Lvl 5: Fireproofing South (E-J/3.5-6.9)	0	100	01MAR06 A	07MAR06 A
OB5-5515F	OB/Lvl 5: Fire Sprinkler Piping South	0	100	08MAR06 A	22MAR06 A
OB5-5520	OB/Lvl 5: Interior Framing South	0	100	20MAR06 A	29MAR06 A
OB5-5515M	OB/Lvl 5: Mech Rough-Ins South	0	100	20MAR06 A	31MAR06 A
OB5-5515E	OB/Lvl 5: Elec Rough-Ins South	0	100	20MAR06 A	21APR06 A
OB5-5515P	OB/Lvl 5: Plmb Rough-Ins South	0	100	20MAR06 A	21APR06 A
OB5-5577	OB/Lvl 5: Roof Deck Insulation South	0	100	06APR06 A	20APR06 A
OB5-5525	OB/Lvl 5: Drywall 1st Side South	0	100	05MAY06 A	09MAY06 A
OB5-5575	OB/Lvl 5: Interior Wall Insulation South	0	100	09MAY06 A	10MAY06 A
OB5-5526	OB/Lvl 5: Drywall 2nd Side South	0	100	10MAY06 A	15MAY06 A
OB5-5527	OB/Lvl 5: Drywall Taping South	0	100	24MAY06 A	31MAY06 A
Rough-In North					
OB5-5508	OB/Lvl5: Int Layout, Clip/TT North	0	100	24FEB06 A	01MAR06 A
OB5-5510	OB/Lvl 5: Fireproofing North (E-J/3.5-6.9)	0	100	24FEB06 A	28FEB06 A
OB5-5516F	OB/Lvl 5: Fire Sprinkler Piping North	0	100	31MAR06 A	20APR06 A
OB5-5521	OB/Lvl 5: Interior Framing North	0	100	06APR06 A	25APR06 A
OB5-5516M	OB/Lvl 5: Mech Rough-Ins North	0	100	06APR06 A	02MAY06 A
OB5-5516E	OB/Lvl 5: Elec Rough-Ins North	0	100	07APR06 A	03MAY06 A
OB5-5516P	OB/Lvl 5: Plmb Rough-Ins North	0	100	07APR06 A	03MAY06 A
OB5-5578	OB/Lvl 5: Roof Deck Insulation North	0	100	21APR06 A	03MAY06 A
OB5-5528	OB/Lvl 5: Drywall 1st Side North	0	100	10MAY06 A	12MAY06 A
OB5-5576	OB/Lvl 5: Interior Wall Insulation North	0	100	12MAY06 A	16MAY06 A
OB5-5536	OB/Lvl 5: Drywall 2nd Side North	0	100	23MAY06 A	30MAY06 A
OB5-5537	OB/Lvl 5: Drywall Taping North	0	100	13JUN06 A	19JUN06 A
Finishes South & North					
OB5-5556F	OB/Lvl 5:Ceramic Tile South RR	0	100	13JUN06 A	26JUN06 A
OB5-5550P	OB/Lvl 5: Paint	0	100	21JUN06 A	13JUL06 A
OB5-5557F	OB/Lvl 5:Ceramic Tile North RR	0	100	06JUL06 A	25JUL06 A
OB5-5540	OB/Lvl 5: Install Doors / Hardware	0	100	10JUL06 A	20JUL06 A
OB5-5545E	OB/Lvl 5: Elec Trim / Devices	0	100	18JUL06 A	01AUG06 A
OB5-5545M	OB/Lvl 5: Mech Trim / Devices	0	100	18JUL06 A	01AUG06 A
OB5-5545P	OB/Lvl 5: Plmb Trim / Devices	0	100	18JUL06 A	01AUG06 A
OB5-5585	OB/Lvl 5: Spandrel Insulation & FTF Fire Stop	0	100	24JUL06 A	28JUL06 A



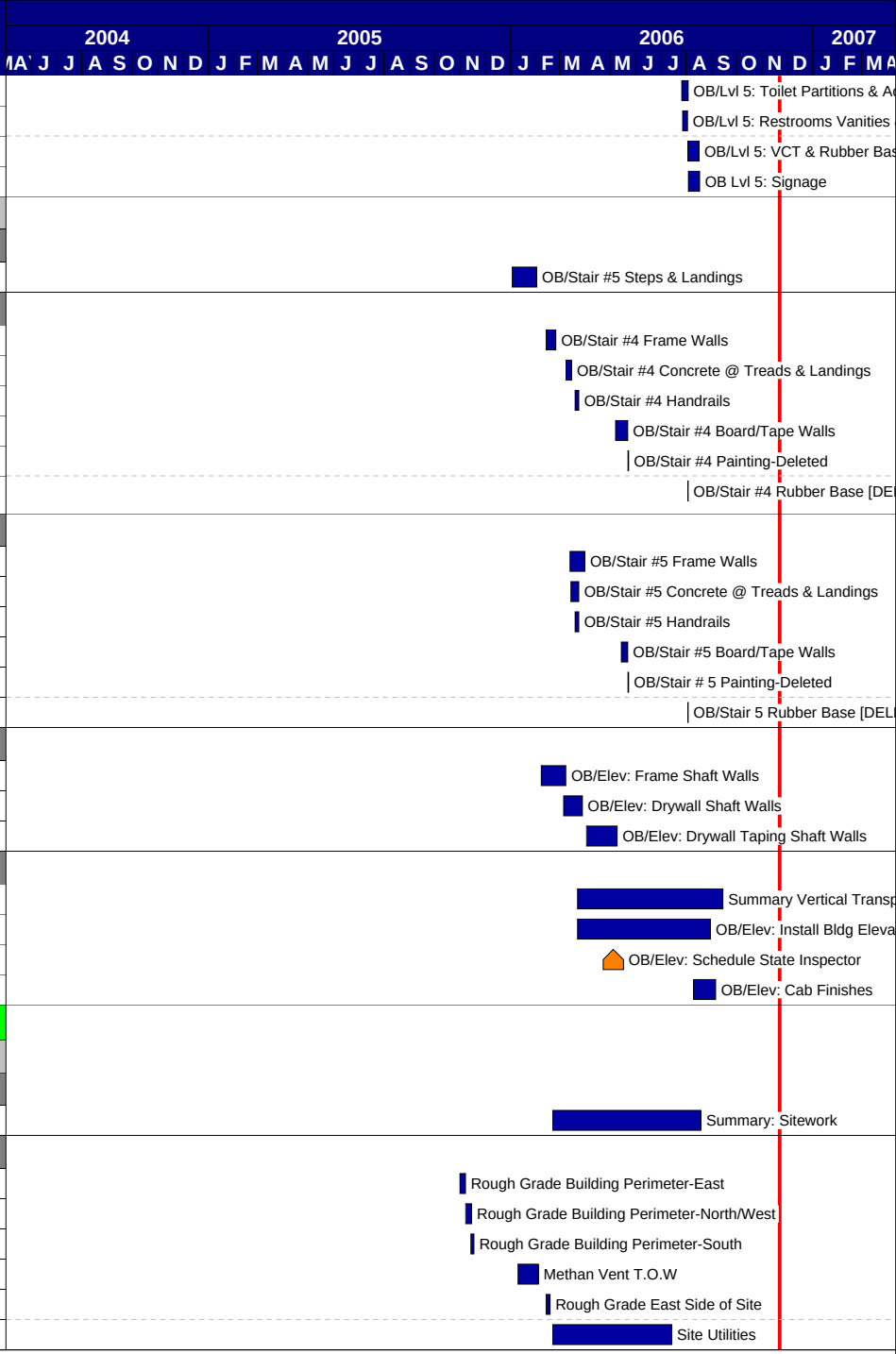
Data date	22NOV06
Finish date	27AUG06
Run date	04SEP08
Page number	27A
Number/Version	As-Built
Project name	611A

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
OB5-5551F	OB/Lvl 5: Toilet Partitions & Accessories	0	100	27JUL06 A	03AUG06 A
OB5-5535	OB/Lvl 5: Restrooms Vanities & FRP @ JClosets	0	100	28JUL06 A	02AUG06 A
OB5-5550F	OB/Lvl 5: VCT & Rubber Base	0	100	03AUG06 A	16AUG06 A
OB5-2551	OB Lvl 5: Signage	0	100	04AUG06 A	17AUG06 A
Vertical Transportation: Office					
AREA C (Gridlines E.5-J/3.5-7)					
ST-5810	OB/Stair #5 Steps & Landings	0	100	03JAN06 A	01FEB06 A
Office Lvls / Stair #4					
ST-5840	OB/Stair #4 Frame Walls	0	100	13FEB06 A	24FEB06 A
ST-5835	OB/Stair #4 Concrete @ Treads & Landings	0	100	09MAR06 A	15MAR06 A
ST-5845	OB/Stair #4 Handrails	0	100	20MAR06 A	24MAR06 A
ST-5840BT	OB/Stair #4 Board/Tape Walls	0	100	08MAY06 A	22MAY06 A
ST-5875	OB/Stair #4 Painting-Deleted	0	100	23MAY06 A	23MAY06 A
ST-5885	OB/Stair #4 Rubber Base [DELETED]	0	100	03AUG06 A	03AUG06 A
Office Lvls / Stair #5					
ST-5820	OB/Stair #5 Frame Walls	0	100	14MAR06 A	31MAR06 A
ST-5815	OB/Stair #5 Concrete @ Treads & Landings	0	100	15MAR06 A	24MAR06 A
ST-5825	OB/Stair #5 Handrails	0	100	20MAR06 A	24MAR06 A
ST-5820BT	OB/Stair #5 Board/Tape Walls	0	100	15MAY06 A	22MAY06 A
ST-5855	OB/Stair # 5 Painting-Deleted	0	100	23MAY06 A	23MAY06 A
ST-5865	OB/Stair 5 Rubber Base [DELETED]	0	100	03AUG06 A	03AUG06 A
Vertical Shafts: Elev. & Air					
VT-5710	OB/Elev: Frame Shaft Walls	0	100	07FEB06 A	08MAR06 A
VT-5715	OB/Elev: Drywall Shaft Walls	0	100	06MAR06 A	28MAR06 A
VT-5716	OB/Elev: Drywall Taping Shaft Walls	0	100	03APR06 A	09MAY06 A
Office Bldg Elevators					
VT-5705	Summary Vertical Transportation	0 *	100	23MAR06 A	14SEP06 A
VT-5720	OB/Elev: Install Bldg Elevators 4,5,6	0	100	23MAR06 A	30AUG06 A
VT-5740	OB/Elev: Schedule State Inspector	0	100		04MAY06 A
VT-5725	OB/Elev: Cab Finishes	0	100	10AUG06 A	05SEP06 A
Site Work					
Site Work: Hardscape & Landscape					
General Items					
6005	Summary: Sitework	0 *	100	21FEB06 A	18AUG06 A
Completion Sitework: Prep					
6190	Rough Grade Building Perimeter-East	0	100	01NOV05 A	07NOV05 A
6191	Rough Grade Building Perimeter-North/West	0	100	08NOV05 A	14NOV05 A
6192	Rough Grade Building Perimeter-South	0	100	14NOV05 A	17NOV05 A
6180	Methan Vent T.O.W	0	100	10JAN06 A	03FEB06 A
6200	Rough Grade East Side of Site	0	100	13FEB06 A	17FEB06 A
6140	Site Utilities	0	100	21FEB06 A	14JUL06 A



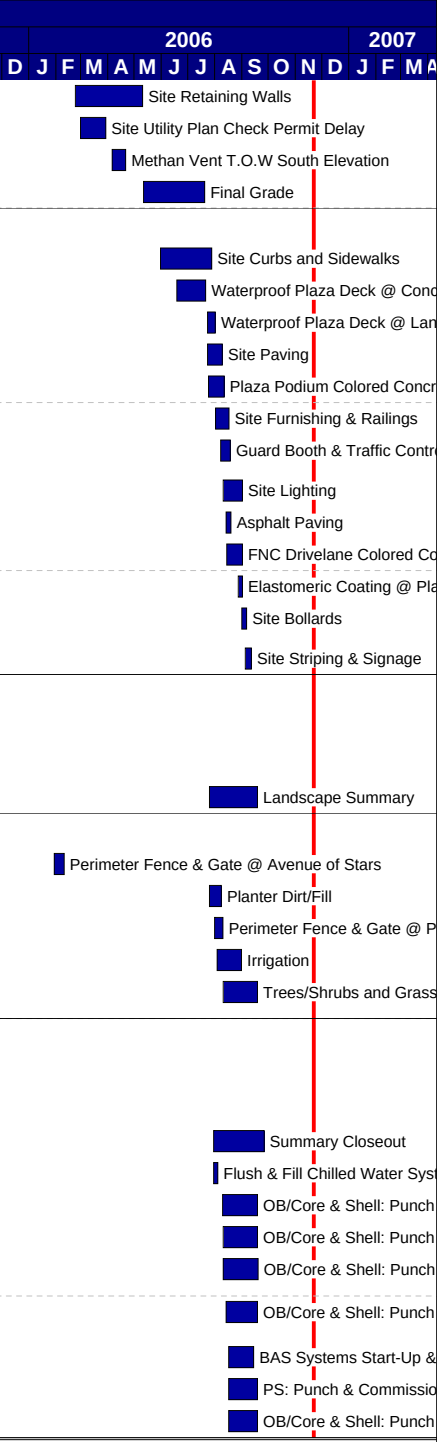
Data date	22NOV06
Finish date	27AUG06
Run date	04SEP08
Page number	28A
Number/Version	As-Built
Project name	611A

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
6150	Site Retaining Walls	0	100	23FEB06 A	10MAY06 A
6180S10	Site Utility Plan Check Permit Delay	0	100	01MAR06 A	29MAR06 A
6180S	Methan Vent T.O.W South Elevation	0	100	06APR06 A	21APR06 A
6160	Final Grade	0	100	12MAY06 A	20JUL06 A
Completion Sitework: Hardscape					
6050	Site Curbs and Sidewalks	0	100	31MAY06 A	28JUL06 A
6030	Waterproof Plaza Deck @ Concrete	0	100	19JUN06 A	21JUL06 A
6029	Waterproof Plaza Deck @ Landscape	0	100	24JUL06 A	01AUG06 A
6060	Site Paving	0	100	24JUL06 A	09AUG06 A
6040	Plaza Podium Colored Concrete Paving	0	100	25JUL06 A	11AUG06 A
6090	Site Furnishing & Railings	0	100	02AUG06 A	17AUG06 A
6130	Guard Booth & Traffic Control	0	100	08AUG06 A	18AUG06 A
6080	Site Lighting	0	100	11AUG06 A	01SEP06 A
6070	Asphalt Paving	0	100	14AUG06 A	19AUG06 A
6045	FNC Drivelane Colored Concrete Paving	0	100	15AUG06 A	01SEP06 A
6170	Elastomeric Coating @ Plaza Parking	0	100	28AUG06 A	01SEP06 A
6100	Site Bollards	0	100	01SEP06 A	06SEP06 A
6110	Site Striping & Signage	0	100	05SEP06 A	11SEP06 A
Landscaping					
Site Work: Hardscape & Landscape					
General Items					
6500	Landscape Summary	0 *	100	26JUL06 A	18SEP06 A
Completion Sitework: Landscape					
6125	Perimeter Fence & Gate @ Avenue of Stars	0	100	30JAN06 A	10FEB06 A
6510	Planter Dirt/Fill	0	100	26JUL06 A	08AUG06 A
6120	Perimeter Fence & Gate @ Pico/Corner Park	0	100	01AUG06 A	10AUG06 A
6520	Irrigation	0	100	04AUG06 A	31AUG06 A
6530	Trees/Shrubs and Grass	0	100	11AUG06 A	18SEP06 A
Punch List, Start-Up & Closeout					
7005	Summary Closeout	0 *	100	31JUL06 A	26SEP06 A
7030	Flush & Fill Chilled Water System	0	100	31JUL06 A	04AUG06 A
7036	OB/Core & Shell: Punch List Roof & Penthouses	0	100	10AUG06 A	18SEP06 A
7032	OB/Core & Shell: Punch List Level 2	0	100	11AUG06 A	18SEP06 A
7035	OB/Core & Shell: Punch List Level 5	0	100	11AUG06 A	19SEP06 A
7033	OB/Core & Shell: Punch List Level 3	0	100	14AUG06 A	18SEP06 A
7020	BAS Systems Start-Up & Bldg Commissioning	0	100	17AUG06 A	14SEP06 A
7010	PS: Punch & Commission	0	100	17AUG06 A	18SEP06 A
7034	OB/Core & Shell: Punch List Level 4	0	100	17AUG06 A	18SEP06 A



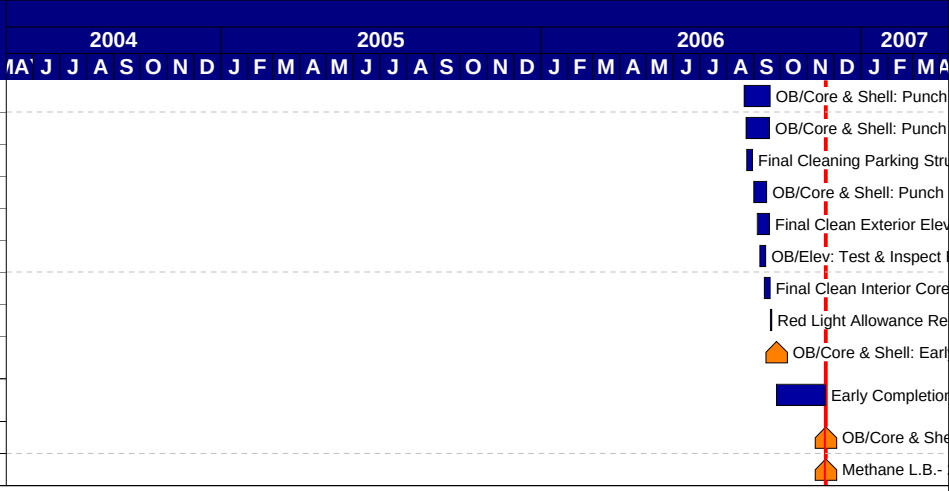
Data date	22NOV06
Finish date	27AUG06
Run date	04SEP08
Page number	29A
Number/Version	As-Built
Project name	611A

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

Act ID	Description	Rem Dur	% Comp	Early Start	Early Finish
7031	OB/Core & Shell: Punch List Level 1	0	100	21AUG06 A	19SEP06 A
7037	OB/Core & Shell: Punch List Exterior Elevations	0	100	23AUG06 A	18SEP06 A
7042	Final Cleaning Parking Structure	0	100	24AUG06 A	30AUG06 A
7038	OB/Core & Shell: Punch List Site	0	100	01SEP06 A	15SEP06 A
7052	Final Clean Exterior Elevations	0	100	05SEP06 A	18SEP06 A
VT-5730	OB/Elev: Test & Inspect Elevators	0	100	08SEP06 A	14SEP06 A
7062	Final Clean Interior Cores & Interior Windows	0	100	13SEP06 A	19SEP06 A
1098	Red Light Allowance Remaining	0	100	20SEP06 A	21SEP06 A
7060	OB/Core & Shell: Early TCO	0	100		26SEP06 A
9999	Early Completion Time Contingency	0	100	27SEP06 A	21NOV06 A
7061	OB/Core & Shell: Late TCO	0	100		21NOV06 A
9998	Methane L.B.- 2 Week Schedule Savings	0	100		21NOV06 A



Data date	22NOV06
Finish date	27AUG06
Run date	04SEP08
Page number	30A
Number/Version	As-Built
Project name	611A

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

Fox Studios Office Building 103
As-Built Schedule
November 2006

PCL Construction Services, Inc.
Project No. 5200185

TAB 5

INTENTIONAL BLANK PAGE

5. Site Logistics

The Fox Studios 103 Project is located on the corner of Pico and Ave of the Stars, bordered by the main entrance to Fox Studios and an existing office building. There are currently no nearby parking lots, no parking on Ave. of the Stars and very limited parking on Pico. The PCL trailer will be 60' X 30', the Plumber's, Concrete subcontractor's and Electrician's trailers will be 30' X 12'.

Site Plan

Use the full size drawing (C-1.01) to create your site logistics plan. Other drawings may be used if you determine them necessary to fully explain your plan. Your plan can add or omit items from the basic list below, as long as a valid reason is present and that your logic does not violate code requirements or jurisdictional limits. Ensure that the locations of all items listed below are coordinated with future work activities, so they do not impede construction progress. In addition, if your site utilization changes/evolves throughout the project, describe any such changes. Include the following without limiting to:

- Project Office location
- Parking
- Location of subcontractor offices
- Locations for temporary fences
- Location of access roads and gates (union and non-union)
- Project and required signage (location and what signs are needed)
- Location of temp services; Power, Trash, etc
- Temporary Toilet Locations for 200 workers
- Laydown areas
- Location and boom radius of crane(s)
- Personnel/material hoist location (at different times in the project if needed)
- Concrete Pumping locations
- Delivery locations for staging and unloading
- Stair towers, if used.
- Emergency evacuation location
- Any SWPPP (erosion control) necessary
- North Arrow
- Any other items that your team things should be on the plan

In addition to a graphical plan provide written narrative to further explain the site utilization plan prepared by your team. When site work is to take place, briefly explain any conflicts that might occur with locations of trailers, etc. and completing all of the landscaping and site work. Provide a brief explanation of how these conflicts will be coordinated and resolved. If there are no foreseen conflicts, briefly explain how the site utilization plan was coordinated with the final site work.

INTENTIONAL BLANK PAGE

No Construction Access

No Construction Access

AVENUE OF THE STARS

Temp Power Box

Stair Tower

Site Fence

Man / Material Hoist

Sub Trailer

Sub Trailer

Crane and Conc Pump Access

AVENUE OF THE STARS

FIRST AID

PCL

TRAILER

MSDS

FE

EMERGENCY EVACUATION POINT AND SINAGE

Stair Tower

Crane and Conc Pump Access

Laydown Area/ Deliveries and unloading

Sand Bags

TRASH

Sub Trailer

Gate 2

Gate 1

FOUNTAIN

N 55°21'33" E 1429.73'

(E) EMERGRNCY GATE APPROACH

PICO BOULEVARD

Gen. Notes

1. Parking offsite or in parking structure after erection
2. Temp toilets, 20 min, dispersed throughout site, and all working levels
3. No tower cranes utilized. Mobile cranes used for steel erection and misc. lifts. Cranes breakdown mostly on south side.
4. Concrete pumps placed as convenient to pour, usually along south and north of building.
5. Stair towers used for work in the underground parking levels. For above ground levels, permanent stairs used.

PCL

FOX Office Building 103
10201 W. Pico Blvd
Los angeles, California 90035
Phone: 818-426-0939
www.pcl.com

CONSULTANTS:

OWNER:

REV	DATE	BY	DESCRIPTION

SCALE:
DATE:
DESIGN BY:
DRAWN BY:
CHECKED BY:

FOX 103 Site Logistics

SITE LOGISTICS PLAN

GC-1.3

INTENTIONAL BLANK PAGE

TAB 6

INTENTIONAL BLANK PAGE

6.) Cash Flow Analysis

As part of its financial analysis, the Owner needs to understand its cash flow requirements. As part of your submittal, prepare separate cash flow analyses for the Preconstruction and for the Construction phases of this project.

- Use the excel spreadsheet cash flow program to derive applicable cash flow projections.
- Completion of this exercise will require information from the budget exercises in section 3 and the schedule exercises in section 4.
- Use the Contractual Criteria for durations of each phase.
- Assume 10% retention for the each phase to be paid 60 days after completion.
- Assume billing on the 25th of the month and payments will be on the 25th of the following month.
- Assume a tolerance of Zero.

Deliverables for this exercise include;

- Cash Flow Worksheet
- Summary Cash Flow Graph
- Cash Flow Graph for each Project Phase

INTENTIONAL BLANK PAGE

CASH FLOW WORKSHEET V3.4

Release Notes Downlaod Current Version Need Help?

Title 1	**Fox Office Building 103**										
Title 2	**Prepared by ??**										
Title 3	**Cash Flow Report**										
Show Details:	Graph: ☑ **TRUE**	Actuals Data: ☑ **TRUE**	Curve Data: ☑ **TRUE**								
Number of Phases	**2**										
Retention %	**10.0%**										
Monthly Billing Day	**25**										
i.e. 25th of the month											
Payment Due (Days)	**30**										
Amount of days after the Billing Date.											
Tolerance (20 is recommended)	**0**										
HB Release (e.g. 45 days)	**60**										
HB Released by Phase	**Yes**	(If HB Released by Phase is left blank, default is No)									
Phase	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	
Contract (Phase) Value	**$ 233,566**	**$ 47,081,460**									
Start Date (MM/DD/YYYY)	**2/12/2009**	**9/12/2009**									
Completion Date	**9/12/2009**	**4/12/2011**									
Initial Billing per S-Curve	4,168	443,495									
Initial Billing Override	**0**	**0**									
HB Release Date	11/25/2009	6/25/2011									
(60 days after each phase and adjusted to the next billing day)											

Notes:

The more phases you add, the longer the program takes to produce the chart. For 10 phases, it should take approximately 90 seconds to finish.

Using 0 in monthly billing day will give you the last day of each month.

Use a new (clean) template for each new project or "what-if" analysis.

To add actual billings go to relevant phase and key in billings manually. Then click the

Program Modifications

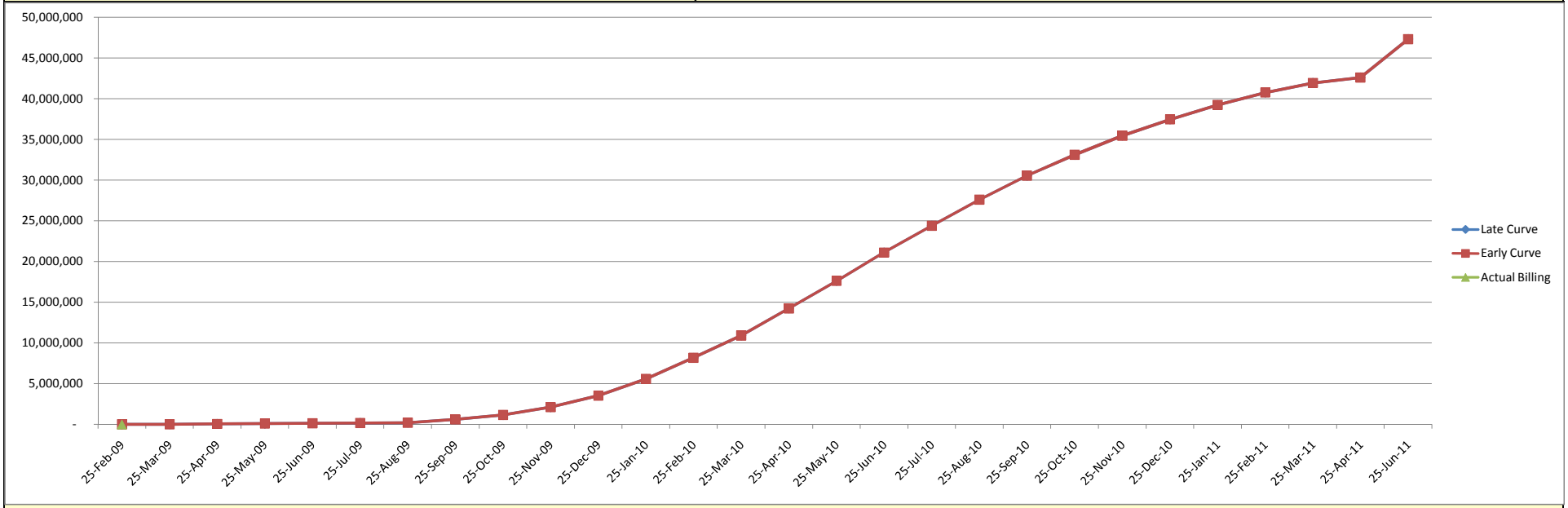
Version V2.01 Release Notes
Version V2.10 Release Notes
Version V2.11 Release Notes
Version V2.12 Release Notes
Version V2.13 Release Notes
Version V3.0 Release Notes
Version V3.1 Release Notes
Version V3.2 Release Notes
Version V3.3 Release Notes
Version V3.4 Release Notes

INTENTIONAL BLANK PAGE

Fox Office Building 103 - Summary

Prepared by ??

Cash Flow Report



Total Project Period: **February 12, 2009 To April 12, 2011**

Total Project Value: **$47,315,026**

		This Period			Cumulative				Late Curve		Early Curve		Actual Billing		Expected Payment		
Draw Date	Duration%	Gross Billing	Retention	Net Billing	Gross Billing	Retention	Net Billing	SpreadFactor	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative	Date	Monthly	Cummalative
25-Feb-09	1.65	4,168	417	3,751	4,168	417	3,751	-	3,751	3,751	3,751	3,751	-	-	27-Mar-09	-	-
25-Mar-09	5.20	16,523	1,652	14,870	20,691	2,069	18,622	-	14,870	18,622	14,870	18,622	-	-	24-Apr-09	-	-
25-Apr-09	9.13	39,294	3,929	35,365	59,985	5,999	53,987	-	35,365	53,987	35,365	53,987	-	-	25-May-09	-	-
25-May-09	12.93	49,931	4,993	44,938	109,916	10,992	98,925	-	44,938	98,925	44,938	98,925	-	-	24-Jun-09	-	-
25-Jun-09	16.86	48,976	4,898	44,078	158,892	15,889	143,003	-	44,078	143,003	44,078	143,003	-	-	25-Jul-09	-	-
25-Jul-09	20.66	37,065	3,707	33,359	195,957	19,596	176,362	-	33,359	176,362	33,359	176,362	-	-	24-Aug-09	-	-
25-Aug-09	24.59	26,665	2,666	23,998	222,622	22,262	200,360	-	23,998	200,360	23,998	200,360	-	-	24-Sep-09	-	-
25-Sep-09	28.52	454,438	45,444	408,995	677,061	67,706	609,354	-	408,995	609,354	408,995	609,354	-	-	25-Oct-09	-	-
25-Oct-09	32.32	580,147	34,658	545,489	1,257,208	102,364	1,154,844	-	545,489	1,154,844	545,489	1,154,844	-	-	24-Nov-09	-	-
25-Nov-09	36.25	1,061,274	106,127	955,146	2,318,481	208,492	2,109,990	-	955,146	2,109,990	955,146	2,109,990	-	-	25-Dec-09	-	-
25-Dec-09	40.05	1,588,782	158,878	1,429,904	3,907,264	367,370	3,539,894	-	1,429,904	3,539,894	1,429,904	3,539,894	-	-	24-Jan-10	-	-
25-Jan-10	43.98	2,273,756	227,376	2,046,381	6,181,020	594,745	5,586,275	-	2,046,381	5,586,275	2,046,381	5,586,275	-	-	24-Feb-10	-	-
25-Feb-10	47.91	2,882,640	288,264	2,594,376	9,063,661	883,009	8,180,651	-	2,594,376	8,180,651	2,594,376	8,180,651	-	-	27-Mar-10	-	-
25-Mar-10	51.46	3,036,373	303,637	2,732,735	12,100,033	1,186,647	10,913,386	-	2,732,735	10,913,386	2,732,735	10,913,386	-	-	24-Apr-10	-	-
25-Apr-10	55.39	3,695,134	369,513	3,325,621	15,795,167	1,556,160	14,239,007	-	3,325,621	14,239,007	3,325,621	14,239,007	-	-	25-May-10	-	-
25-May-10	59.19	3,749,503	374,950	3,374,552	19,544,670	1,931,110	17,613,559	-	3,374,552	17,613,559	3,374,552	17,613,559	-	-	24-Jun-10	-	-
25-Jun-10	63.12	3,891,718	389,172	3,502,546	23,436,388	2,320,282	21,116,105	-	3,502,546	21,116,105	3,502,546	21,116,105	-	-	25-Jul-10	-	-
25-Jul-10	66.92	3,652,738	365,274	3,287,464	27,089,126	2,685,556	24,403,570	-	3,287,464	24,403,570	3,287,464	24,403,570	-	-	24-Aug-10	-	-
25-Aug-10	70.85	3,555,620	355,562	3,200,058	30,644,746	3,041,118	27,603,628	-	3,200,058	27,603,628	3,200,058	27,603,628	-	-	24-Sep-10	-	-
25-Sep-10	74.78	3,265,552	326,555	2,938,997	33,910,298	3,367,673	30,542,625	-	2,938,997	30,542,625	2,938,997	30,542,625	-	-	25-Oct-10	-	-
25-Oct-10	78.58	2,849,442	284,944	2,564,498	36,759,740	3,652,617	33,107,123	-	2,564,498	33,107,123	2,564,498	33,107,123	-	-	24-Nov-10	-	-
25-Nov-10	82.51	2,612,290	261,229	2,351,061	39,372,030	3,913,846	35,458,184	-	2,351,061	35,458,184	2,351,061	35,458,184	-	-	25-Dec-10	-	-

Total Project Period: February 12, 2009 To April 12, 2011

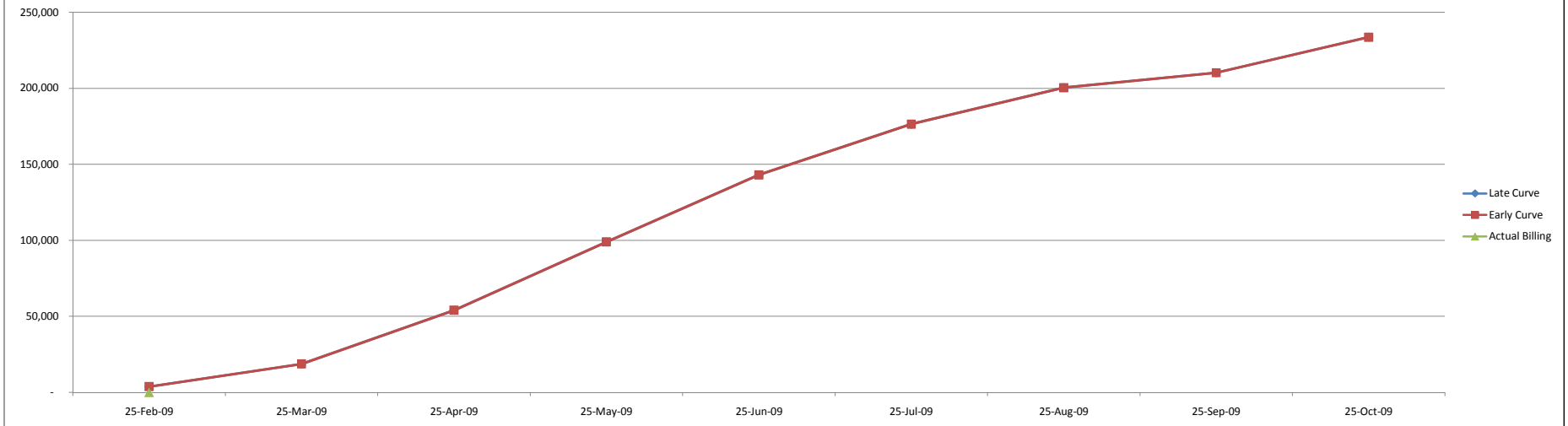
Total Project Value: $47,315,026

		This Period			Cumulative				Late Curve		Early Curve		Actual Billing		Expected Payment		
Draw Date	Duration%	Gross Billing	Retention	Net Billing	Gross Billing	Retention	Net Billing	SpreadFactor	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative	Date	Monthly	Cummalative
25-Dec-10	86.31	2,213,201	221,320	1,991,881	41,585,231	4,135,167	37,450,065	-	1,991,881	37,450,065	1,991,881	37,450,065	-	-	24-Jan-11	-	-
25-Jan-11	90.24	1,980,462	198,046	1,782,416	43,565,693	4,333,213	39,232,480	-	1,782,416	39,232,480	1,782,416	39,232,480	-	-	24-Feb-11	-	-
25-Feb-11	94.17	1,695,236	169,524	1,525,712	45,260,929	4,502,736	40,758,192	-	1,525,712	40,758,192	1,525,712	40,758,192	-	-	27-Mar-11	-	-
25-Mar-11	97.72	1,310,980	131,098	1,179,882	46,571,909	4,633,834	41,938,074	-	1,179,882	41,938,074	1,179,882	41,938,074	-	-	24-Apr-11	-	-
25-Apr-11	100.00	743,117	74,312	668,806	47,315,026	4,708,146	42,606,880	-	668,806	42,606,880	668,806	42,606,880	-	-	25-May-11	-	-
25-Jun-11	HB Release	-	(4,708,146)	4,708,146	47,315,026	-	47,315,026	-		47,315,026		47,315,026		-	25-Jul-11		-

Fox Office Building 103 - Phase 1

Prepared by ??

Cash Flow Report



Period: February 12, 2009 To September 12, 2009 **Value:** $233,566

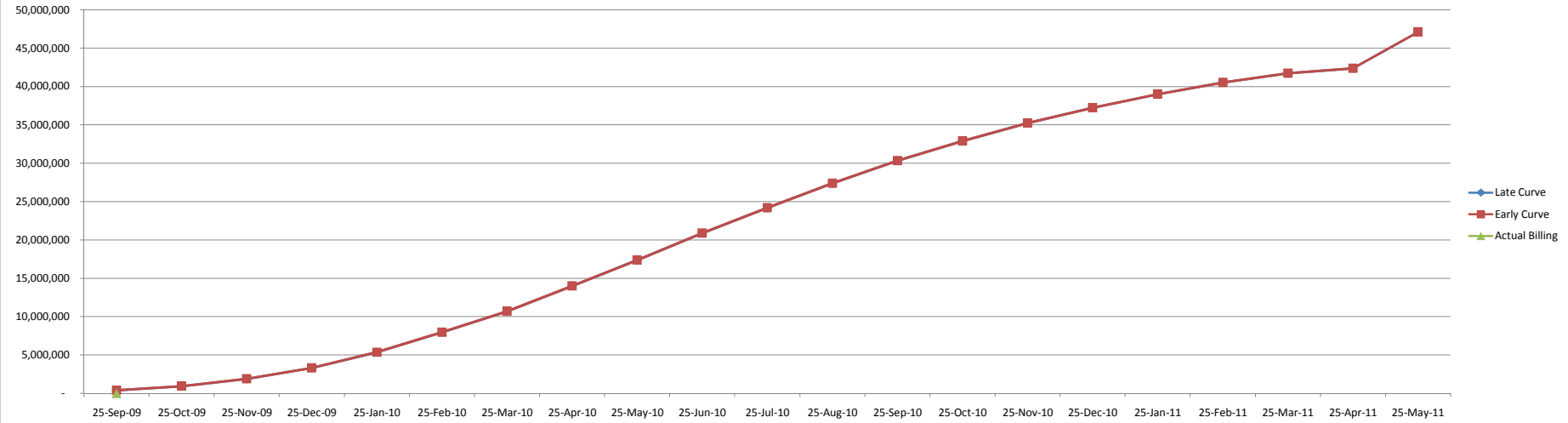
Phase 1

		This Period			Cumulative						Late Curve		Early Curve		Actual Billing		Expected Payment		
Draw Date	Duration%	Gross Billing	Retention	Net Billing	Calculated Gross	Adjusted Gross	Gross Billing	Retention	Net Billing	SpreadFactor	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative	Date	Monthly	Cummalative
25-Feb-09	6.13	4,168	417	3,751	4,168		4,168	417	3,751	-	3,751	3,751	3,751	3,751		-	27-Mar-09	0	-
25-Mar-09	19.34	16,523	1,652	14,870	20,691		20,691	2,069	18,622	-	14,870	18,622	14,870	18,622		-	24-Apr-09	0	-
25-Apr-09	33.96	39,294	3,929	35,365	59,985		59,985	5,999	53,987	-	35,365	53,987	35,365	53,987		-	25-May-09	0	-
25-May-09	48.11	49,931	4,993	44,938	109,916		109,916	10,992	98,925	-	44,938	98,925	44,938	98,925		-	24-Jun-09	0	-
25-Jun-09	62.74	48,976	4,898	44,078	158,892		158,892	15,889	143,003	-	44,078	143,003	44,078	143,003		-	25-Jul-09	0	-
25-Jul-09	76.89	37,065	3,707	33,359	195,957		195,957	19,596	176,362	-	33,359	176,362	33,359	176,362		-	24-Aug-09	0	-
25-Aug-09	91.51	26,665	2,666	23,998	222,622		222,622	22,262	200,360	-	23,998	200,360	23,998	200,360		-	24-Sep-09	0	-
25-Sep-09	100.00	10,944	1,094	9,849	233,566		233,566	23,357	210,209	-	9,849	210,209	9,849	210,209		-	25-Oct-09	0	-
25-Oct-09	HB Release	-	(23,357)	23,357	233,566		233,566	-	233,566	-		233,566		233,566		-	24-Nov-09	0	-

Fox Office Building 103 - Phase 2

Prepared by ??

Cash Flow Report



Period: September 12, 2009 To April 12, 2011 **Value:** $47,081,460

Phase 2

		This Period			Cumulative						Late Curve		Early Curve		Actual Billing		Expected Payment		
Draw Date	Duration%	Gross Billing	Retention	Net Billing	Calculated Gross	Adjusted Gross	Gross Billing	Retention	Net Billing	SpreadFactor	Monthly	Cumulative	Monthly	Cumulative	Monthly	Cumulative	Date	Monthly	Cummalative
25-Sep-09	2.25	443,495	44,349	399,145	443,495		443,495	44,349	399,145	-	399,145	399,145	399,145	399,145		-	25-Oct-09	0	-
25-Oct-09	7.45	580,147	58,015	522,132	1,023,642		1,023,642	102,364	921,278	-	522,132	921,278	522,132	921,278		-	24-Nov-09	0	-
25-Nov-09	12.82	1,061,274	106,127	955,146	2,084,915		2,084,915	208,492	1,876,424	-	955,146	1,876,424	955,146	1,876,424		-	25-Dec-09	0	-
25-Dec-09	18.02	1,588,782	158,878	1,429,904	3,673,698		3,673,698	367,370	3,306,328	-	1,429,904	3,306,328	1,429,904	3,306,328		-	24-Jan-10	0	-
25-Jan-10	23.40	2,273,756	227,376	2,046,381	5,947,454		5,947,454	594,745	5,352,709	-	2,046,381	5,352,709	2,046,381	5,352,709		-	24-Feb-10	0	-
25-Feb-10	28.77	2,882,640	288,264	2,594,376	8,830,095		8,830,095	883,009	7,947,085	-	2,594,376	7,947,085	2,594,376	7,947,085		-	27-Mar-10	0	-
25-Mar-10	33.62	3,036,373	303,637	2,732,735	11,866,467		11,866,467	1,186,647	10,679,820	-	2,732,735	10,679,820	2,732,735	10,679,820		-	24-Apr-10	0	-
25-Apr-10	38.99	3,695,134	369,513	3,325,621	15,561,601		15,561,601	1,556,160	14,005,441	-	3,325,621	14,005,441	3,325,621	14,005,441		-	25-May-10	0	-
25-May-10	44.19	3,749,503	374,950	3,374,552	19,311,104		19,311,104	1,931,110	17,379,993	-	3,374,552	17,379,993	3,374,552	17,379,993		-	24-Jun-10	0	-
25-Jun-10	49.57	3,891,718	389,172	3,502,546	23,202,822		23,202,822	2,320,282	20,882,539	-	3,502,546	20,882,539	3,502,546	20,882,539		-	25-Jul-10	0	-
25-Jul-10	54.77	3,652,738	365,274	3,287,464	26,855,560		26,855,560	2,685,556	24,170,004	-	3,287,464	24,170,004	3,287,464	24,170,004		-	24-Aug-10	0	-
25-Aug-10	60.14	3,555,620	355,562	3,200,058	30,411,180		30,411,180	3,041,118	27,370,062	-	3,200,058	27,370,062	3,200,058	27,370,062		-	24-Sep-10	0	-
25-Sep-10	65.51	3,265,552	326,555	2,938,997	33,676,732		33,676,732	3,367,673	30,309,059	-	2,938,997	30,309,059	2,938,997	30,309,059		-	25-Oct-10	0	-
25-Oct-10	70.71	2,849,442	284,944	2,564,498	36,526,174		36,526,174	3,652,617	32,873,557	-	2,564,498	32,873,557	2,564,498	32,873,557		-	24-Nov-10	0	-
25-Nov-10	76.08	2,612,290	261,229	2,351,061	39,138,464		39,138,464	3,913,846	35,224,618	-	2,351,061	35,224,618	2,351,061	35,224,618		-	25-Dec-10	0	-
25-Dec-10	81.28	2,213,201	221,320	1,991,881	41,351,665		41,351,665	4,135,167	37,216,499	-	1,991,881	37,216,499	1,991,881	37,216,499		-	24-Jan-11	0	-
25-Jan-11	86.66	1,980,462	198,046	1,782,416	43,332,127		43,332,127	4,333,213	38,998,914	-	1,782,416	38,998,914	1,782,416	38,998,914		-	24-Feb-11	0	-
25-Feb-11	92.03	1,695,236	169,524	1,525,712	45,027,363		45,027,363	4,502,736	40,524,626	-	1,525,712	40,524,626	1,525,712	40,524,626		-	27-Mar-11	0	-
25-Mar-11	96.88	1,310,980	131,098	1,179,882	46,338,343		46,338,343	4,633,834	41,704,508	-	1,179,882	41,704,508	1,179,882	41,704,508		-	24-Apr-11	0	-
25-Apr-11	100.00	743,117	74,312	668,806	47,081,460		47,081,460	4,708,146	42,373,314	-	668,806	42,373,314	668,806	42,373,314		-	25-May-11	0	-
25-May-11	HB Release	-	(4,708,146)	4,708,146	47,081,460		47,081,460	-	47,081,460	-		47,081,460		47,081,460		-	24-Jun-11	0	-

TAB 7

INTENTIONAL BLANK PAGE

7. Mechanical Problem for ASC Competition

The new Fox Office Building was intended to be served by the campus chilled water plant. The existing central plant currently serves about 50% of the campus buildings and is running at full capacity. An expansion of the existing central plant is in design. This plant expansion would not only serve the new office building, but other campus buildings that are not currently connected to the plant. Construction completion was planned to coincide with the completion of the new office building.

Due to the current economic downturn, the Fox management has is considering cancelling the $35 million central plant expansion project. This creates a major problem of how to provide chilled water for the air conditioning of the new office building.

At the P4 level of the building there is currently a storage area that just happens to be large enough to house the chillers and their associated pumps and the roof has an area that can accommodate the cooling towers. A route will need to be established for the condenser water piping from the P4 level mechanical central plant to the roof.

As the general contractor, the owner (Fox) has requested that you provide a rough order of magnitude (ROM) budget to add a chilled water plant to your building. Do not incorporate this exercise into your answers for any other section of the Preconstruction problem. This is just one of several potential solution being considered by the Owner.

In order to establish your ROM budget here are the parameters:

- Total capacity of the chilled water plant needs to be calculated. The coil data for the built-up air handling units and the fan coil units have the total cooling capacities specified on the mechanical schedule. To these loads add 10 tons per office level for miscellaneous tenant cooling loads.

  MBH = 1000 BTU/Hr

  1 ton = 12,000 BTU
  rule-of-thumb check approximately 400 cfm / ton
- There will be 2 chillers, each sized at 60% of the system total load. Note that chillers are up-sized so that should a chiller be down for service, the capacity of one chiller could maintain air conditioning during normal outdoor conditions. The budgetary installed cost of a chiller is $280 per ton.
- Each chiller will have a chilled water pump and a condenser water pump. Capacities of the pumps are determined by the following equation:

  BTU = GPM x 500 x differential temperature

  chilled water system 16°F temperature differential (44°F > 60°F)
  condenser water system 10°F temperature differential (95°F > 85°F)

  The budgetary installed cost of a pump is $9.00 per gpm.

- Cooling towers have a budgetary installed cost of $126 per ton.

- Budgetary piping costs for the chilled water plant are $326 per ton. This is based upon a close-coupled plant; meaning that the cooling towers are located adjacent to the chillers. Since the cooling towers are located on the roof, condenser water piping costs (supply and return) from the P4 level central plant to the roof will need to be added.

6" dia pipe	220>700 gpm	$82 per LF
8" dia pipe	700>1,200 gpm	$108 per LF
10" dia pipe	1,200>2,000 gpm	$146 per LF

  In addition the chilled water piping will have to be extended from the P1 level to the P4 level central plant.

- The other sub trades have provided the following budgets for the plant addition:

Electrical	$220,000
Architectural / Structural	$85,000
Temperature Controls / BAS	$125,000
Crane & Rigging	$35,000
Fire Protection	$15,000

- The scheduled completion of the project will have to be extended by 4 months due to the addition of the chilled water plant (design and permitting). General Condition's costs are at $110,000 per month.
- Fee on top of all costs for this potential has been negotiated with the owner at 5%.
- You will probably want to look at sheets M-.02, M-1.04, A2.10, A-2.11, A-3.01

<u>Deliverables;</u>

- Calculations for cooling loads, equipment selection, pipe sizing/quantities
- ROM budget estimate for this potential change
- Sketch of proposed roof top equipment and piping
- Sketch of proposed P4 chiller plant equipment and piping risers
- Sketch of proposed roof top equipment in building elevation

University Marelich
An EMCOR Company

WORKSHEET

SUBJECT:	DATE:	BY:	PAGE:
SOLUTION - MECH PROBLEM for ASC COMPETITION			1 of 2

COOLING LOAD

AIR HANDLING UNITS	6,336,000 BTU	= 528 TONS
FAN COIL UNITS	331,500 BTU	= 28 TONS
MISC. TENANT COOLING LOADS	5 FOOR @ 10T/FLR.	= 50 TONS
TOTAL LOAD		598 TONS

EQUIPMENT SELECTION

- CHILLERS - EACH @ 60% of LOAD ∴ 2 CHILLERS @ 360 TONS/EA
- PUMP-CHW
  360 TONS x 12,000 BTU/TON = 4,320,000 BTU
  GPM = 4,320,000 BTU/500/16°F = 540 GPM/PUMP
- PUMP-CDW
  GPM = 4,320,000 BTU/500/10°F = 864 GPM/PUMP
- COOLING TOWER - DESIGNED TO MATCH CHILLERS @ 360 TONS/EA

PIPE SIZING

- CHILLED WATER 1,080 GPM TOTAL ∴ 8"Ø PIPE
  RISERS LEVEL P-1 TO P-4 (SUPPLY AND RETURN) 60 LF
- CONDENSER WATER 1,728 GPM TOTAL ∴ 10"Ø PIPE
  RISERS LEVEL P-4 TO ROOF (SUPPLY AND RETURN) 195 LF
  HORIZ. ROOF PIPING (SUPPLY AND RETURN) 220 LF
- CHILLED WATER (CREDIT) P-1 LEVEL 220 LF

University Marelich
An EMCOR Company

WORKSHEET

SUBJECT:	DATE:	BY:	PAGE:
SOLUTION - MEGA PROBLEM FOR ACG COMPETITION			2 of 2

ESTIMATE

2 EACH	360 TON CHILLERS @ $280/T	$201,600
2 EACH	360 TON COOLING TWRS @ $126/T	90,720
2 EACH	540 GPM CHW PUMPS @ $9/GPM	9,720
2 EACH	864 GPM CDW PUMPS @ $9/GPM	15,552
60 LF	8"Ø CHW PIPING @ $108/LF	6,480
220 LF	10"Ø CDW PIPING @ $146/LF	32,120
720 TONS	PLANT PIPING @ $326/TON	$259,200
<220 LF>	8" Ø CHW PIPING @ $108/LF	<$23,760>
SUBCONTRACTS		
	ELECTRICAL	220,000
	ARCHITECTURAL/STRUCTURAL	85,000
	TEMPERATURE CONTROLS/BAS	125,000
	CRANE + RIGGING	35,000
	FIRE PROTECTION	15,000
	INSULATION - PIPING	30,000
COST	SUB-TOTAL	$1,101,632
GENERAL CONDITIONS 4 MONTHS @ $110,000/MONTH		440,000
FEE @ 5% OF COST		55,082
TOTAL GMP		$1,596,714

DUCT SIZE SCHEDULE

LOW VELOCITY DUCT SYSTEMS SUPPLY AND EXHAUST

CFM RANGE	ROUND DUCT DIA. OR EQUIVALENT RECTANGULAR DUCT	CFM RANGE	ROUND DUCT DIA. OR EQUIVALENT RECTANGULAR DUCT	CFM RANGE	ROUND DUCT DIA. OR EQUIVALENT RECTANGULAR DUCT	CFM RANGE	ROUND DUCT DIA. OR EQUIVALENT RECTANGULAR DUCT
UP TO 80	6" DIA.	350 – 450	11" DIA.	1100 – 1400	16" DIA.	4100 – 5000	26" DIA.
80 – 120	7" DIA.	450 – 600	12" DIA.	1400 – 1900	18" DIA.	5000 – 6200	28" DIA.
120 – 180	8" DIA.	600 – 750	13" DIA.	1900 – 2500	20" DIA.	6200 – 7500	30" DIA.
180 – 270	9" DIA.	750 – 900	14" DIA.	2500 – 3300	22" DIA.		
270 – 350	10" DIA.	900 – 1100	15" DIA.	3300 – 4100	24" DIA.		

MISCELLANEOUS EQUIPMENT

SYMBOL	MAKE	MODEL/TYPE	CAPACITY	ELECTRICAL VOLTAGE	ELECTRICAL M.C.A	ELECTRICAL MOCP	CFM	SIZE WIDTH	SIZE HEIGTH	SIZE DEPTH	OPERATING WEIGHT	SERVING	REMARKS
AC 1	BARD	WA482-C	4-TON	460/3/60	17	20	1650	42"	85"	23"	500	ELEVATOR MACHINE RM. P405	SEE NOTES BELOW
AC 2	BARD	WA442-C	3-TON	460/3/60	14	20	1650	42"	85"	23"	500	ELEVATOR MACHINE RM. R007	SEE NOTES BELOW
AC 3	BARD	WA602-C	6-TON	460/3/60	27	30	1650	42"	85"	23"	500	ELEVATOR MACHINE RM. R006	SEE NOTES BELOW

GENERAL NOTES

1. PROVIDE FACTORY INSTALLED LOW AMBIENT CONTROL ON ALL UNITS.

VAV ZONE BOX SCHEDULE

ZONE NO.	BOX SIZE MODEL VR	PRIMARY AIR MAX.	PRIMARY AIR MIN.	SECONDARY AIR CFM	FAN HP	HEATER K.W.	ELECTRICAL VOLTAGE	STAGE	REMARKS
1-1	1416	2000	200	800	1/2	5.00	277-1ph-60hz	2	SEE NOTES BELOW
1-2	1411	1800	180	720	1/4	3.0	277-1ph-60hz	2	SEE NOTES BELOW
1-3	0808	800	70	240	1/6	1.75	277-1ph-60hz	2	SEE NOTES BELOW
1-4	1411	1800	180	720	1/4	5.0	277-1ph-60hz	2	SEE NOTES BELOW
2-1	1211	900	150	–	–	–	–	–	SEE NOTES BELOW
3-1	1411	900	150	–	–	–	–	–	SEE NOTES BELOW
4-1	1006	900	150	–	–	–	–	–	SEE NOTES BELOW
5-1	1416	900	150	–	–	–	–	–	SEE NOTES BELOW

NOTES:

1. SEE SHT. M-0.01 FOR MASTER AIR TERMINAL UNIT SCHEDULE AND FAN POWER AIR DIAGRAM.
2. ALL FAN POWER BOXES SHALL BE EQUIPED WITH FACTORY SCR SPEED CONTROLLERS, 3 TAP MOTORS AND FILTER RACK W/ FILTER.
3. ALL FAN POWER BOXES SHALL BE EQUIPED WITH 2 STEP HEATERS.
4. ALL FAN POWER BOXES SHALL BE HAVE SINGLE POINT POWER.

6,336 MBH = 528 TONS

WATER COILS

SYMBOL	MAKE	MODEL	SIZE (QTY.)	CFM (QTY.)	FACE AREA	FACE VELOCITY	CAPACITY (MBH) TOTAL	CAPACITY (MBH) SENSIBLE	AIR ENT. DB	AIR ENT. WB	AIR LVG. DB	AIR LVG. WB	AIR P.D.	WATER IN	WATER OUT	WATER GPM	WATER P.D.	ROWS	FINS	CIRC.	WORKING PRESS.	OPERATING WEIGHT	SERVICE	REMARKS
CC 1	CARRIER	SERIES 28DC	96"x 48" (6)	16,667 (6)	31.67 (6)	520	3168.0	2620.44	78.5	64.5	54.5	53.8	.88"	44	60	70.4 EA. 422.4	3.5'	8	11	80	300	–	AHU-1	WITH PHENOLIC COATING
CC 2	CARRIER	SERIES 28DC	96"x 48" (6)	16,667 (6)	31.67 (6)	520	3168.0	2620.44	78.5	64.5	54.5	53.8	.88"	44	60	70.4 EA. 422.4	3.5'	8	11	80	300	–	AHU-1	WITH PHENOLIC COATING

1 PROVIDE SEPARATE COST TO PROVIDE 304 STAINLESS STEEL COIL CASINGS (FRAMES) AND DRAIN PANS.

AIR FILTERS

SYMBOL	MAKE	MODEL	EFFICIENCY	SIZE (WxHxD)	QUANTITY	CFM	INITIAL RESISTANCE	FINAL RESISTANCE	OPERATING WEIGHT	VELOCITY F.P.M.	REMARKS
F 1-1	FARR	30 / 30	35%	24"x 24"X 2"	48	2000 EA. FILTER	.30" @ 2000 CFM	.90"	1 LB EA.	MAX. 500	CONTRACTOR SHALL BUILD IN PLACE FILTER SYSTEM WITH FARR FACTORY TYPE 8 HOLDING FRAMES & CLIPS
F 1-2	FARR	30 / 30	35%	24"x 24"X 2"	48	2000 EA. FILTER	.30" @ 2000 CFM	.90"	1 LB EA.	MAX. 500	CONTRACTOR SHALL BUILD IN PLACE FILTER SYSTEM WITH FARR FACTORY TYPE 8 HOLDING FRAMES & CLIPS
F 2-1	FARR	DURA-FIL V BANK MINI-PLETE	85%	24"x 24"X 12"	48	2000 EA. FILTER	.37" @ 2000 CFM	1.00"	FRAME = 6 LBS FILTER = 15 LBS (EACH)	MAX. 500	CONTRACTOR SHALL BUILD IN PLACE FILTER SYSTEM WITH FARR FACTORY TYPE 8 HOLDING FRAMES & CLIPS
F 2-2	FARR	DURA-FIL V BANK MINI-PLETE	85%	24"x 24"X 12"	48	2000 EA. FILTER	.37" @ 2000 CFM	1.00"	6 LBS FRAME 15 LBS FILTER (EACH)	MAX. 500	CONTRACTOR SHALL BUILD IN PLACE FILTER SYSTEM WITH FARR FACTORY TYPE 8 HOLDING FRAMES & CLIPS

SUPPLY/EXHAUST/RELIEF FANS

SYMBOL	MAKE	MODEL/TYPE	PERFORMANCE DATA CFM	S.P. (IN)	RPM	OUTLET VEL. FPM	MOTOR DATA DRIVE	BHP	HP	VOLTAGE VOLTS	Ø	HZ	EMERG. POWER	OPER. WEIGHT LBS.	SERVICE	VIBRATION ISOLATION TYPE	STATIC DEFL.	REMARKS
SF 1	WOODS	VANE-AXIAL 180J071A	100,000	4.5"	1165	–	DIRECT	110	125	460	3	60	NO	6,625	AHU-1 SUPPLY	MS	2"	ADJUSTABLE PITCH VANES WITH VFD
SF 2	WOODS	VANE-AXIAL 180J071A	100,000	4.5"	1165	–	DIRECT	110	125	460	3	60	NO	6,625	AHU-2 SUPPLY	MS	2"	ADJUSTABLE PITCH VANES WITH VFD
RF 1	WOODS	VANE-AXIAL 180JM6GT	90,000	1.5"	875	–	DIRECT	41.2	50	460	3	60	NO	5,624	AHU-1 RETURN	MS	2"	ADJUSTABLE PITCH VANES WITH VFD
RF 2	WOODS	VANE-AXIAL 180JM6GT	90,000	1.5"	875	–	DIRECT	41.2	50	460	3	60	NO	5,624	AHU-2 RETURN	MS	2"	ADJUSTABLE PITCH VANES WITH VFD
GSF 1	WOODS	VANE-AXIAL 224J071A	184,000	2.50"	875	–	DIRECT	185	150	460	3	60	NO	11,890	GARAGE SUPPLY	MS	2"	ADJUSTABLE PITCH VANES EXTERNAL VERTICAL MOUNTING BRACKETS
GSF 2	WOODS	VANE-AXIAL 224J071A	184,000	2.50"	875	–	DIRECT	165	150	460	3	60	NO	8,125	GARAGE SUPPLY	MS	2"	ADJUSTABLE PITCH VANES EXTERNAL VERTICAL MOUNTING BRACKETS
GSF 3	WOODS	VANE-AXIAL 125JM6GT	39,100	2.50"	1170	–	DIRECT	25.98	30	460	3	60	NO	1,572	GARAGE SUPPLY	MS	2"	ADJUSTABLE PITCH VANES EXTERNAL VERTICAL MOUNTING BRACKETS
GEF 1	WOODS	VANE-AXIAL 224J071A	192,000	2.50"	875	–	DIRECT	165	150	460	3	60	NO	11,890	GARAGE EXHAUST	MS	2"	ADJUSTABLE PITCH VANES EXTERNAL VERTICAL MOUNTING BRACKETS
GEF 2	WOODS	VANE-AXIAL 224J071A	214,100	2.50"	875	–	DIRECT	165	200	460	3	60	NO	12,573	GARAGE EXHAUST	MS	2"	ADJUSTABLE PITCH VANES EXTERNAL VERTICAL MOUNTING BRACKETS
TEF 1	COOK	ROOF FAN ACE-B -270	5,000	0.625"	600	–	BELT	1.0	1.5	460	3	60	NO	800	TOILET EXHAUST	MS	1"	MOTORIZED BACKDRAFT DMPR.
TEF 2	COOK	ROOF FAN ACE-B 270	5,000	0.625"	600	–	BELT	1.0	1.5	460	3	60	NO	500	TOILET EXHAUST	MS	1"	MOTORIZED BACKDRAFT DMPR. WITH FACTORY SOUND CURB

NOTES:

1. PROVIDE DUCT TYPE SMOKE DETECTOR AT INLETS OF ALL FANS.
2. PROVIDE STANDARD FACTORY ROOF CURBS FOR TEF-1 AND TEF-1.
3. ALL VFD DRIVES IN THE AIR STREAM OR IN THE GARAGE FAN ROOMS SHALL REQUIRE NEMA 12 ENCLOSURES.
4. PROVIDE ISOLATION BASE RAILS, MOTOR MOUNTING SLIDE PLATES AND MASON (HEIGHT SAVING) STEEL SPRING VIBRATION ISOLATORS.
5. FAN WEIGHTS INCLUDE COMPLETE FAN ASSEMBLIES, INCLUDING FANS, MOTORS, INLET BELLS & SCREENS, DISCHARGE CONES, SUPPORT LEGS AND COMPANION FLANGES.
6. PROVIDE V.F.D.'S FOR: GSF-1, GSF-2, GSF-3, GEF-1 & GEF-2. DRIVES SHALL BE A.B.B. SERIES ACH550 OR EQUAL W/ FULL BYPASS AND WITH NEMA 12 ENCLOSURES. FAN SPEED SHALL BE CONTROLED BY GARAGE C.O. MONITORING SYSTEM.
7. ALL MOTORS WITH VFD'S SHALL BE INSTALLED WITH SHAFT GROUNDING KITS.
8. PROVIDE WEATHER PROOF FAN HOUSINGS & MOTORS FOR GARAGE FANS GSF-1, GSF-2, GEF-1 & GEF-2.
8A. GSF-3 To run continuously at low speed @ 7800 cfm.
9. GARAGE FANS GSF-1, GSF-2, GEF-1 & GEF-2 SHALL HAVE HOT DIPPED GALVANIZED CASING FINISH, SPLIT CASE DESIGN, GUIDE VANES, ADJUSTABLE PITCH IMPELLERS, INVERTER DUTY MOTORS, FAN BARREL ACCESS DOORS, EXTENDED GREASE LINES, VIBRATION CUT OUT SWITCHES, FACTORY MOUNTING LEGS AND FACTORY INLET BELLS WITH VORTEX BREAKERS AND SCREENS.
10. GARAGE FAN GSF-3 SHALL BE HAVE ENAMEL PAINT FINISH, GUIDE VANES, ADJUSTABLE PITCH IMPELLERS, INVERTER DUTY MOTOR, FAN BARREL ACCESS DOOR, EXTENDED GREASE LINES, VIBRATION CUT OUT SWITCH, FACTORY MOUNTING LEGS AND FACTORY INLET BELL AND SCREEN.

On all fans except GSF-1 & GEF-1 per RFI #43

FAN COIL UNITS

SYMBOL	MAKE & SIZE	ARRANGEMENT	SERVICE	FAN DATA CAPACITY (CFM)	TOTAL (INCH) E.S.P.	RPM	MOTOR DATA HP	VOLT-Ø-~	FACE VEL. FPM	AIR SIDE ENT °F DB	ENT °F WB	LVG °F DB	LVG °F WB	MAX. P.D. (IN.)	WATER SIDE (°F) ENT	(°F) LVG	GPM	MAX. P.D. (FT)	CAPACITY TOTAL	CAPACITY SENSIBLE	FILTERS TYPE	FILTERS NUMBER	TOTAL OPER. WEIGHT	WATER WORKING PRESS. PSIG	VIB ISOL.	REMARKS
FC 1-1, FC 1-2, FC 2-1, FC 2-2, FC 3-1, FC 3-2, FC 4-1, FC 4-2, FC 5-1, FC 5-2	CARRIER 42BH-008	HORIZONTAL FAN COIL	ELECT. & I.D.F. ROOMS	900	0.50	1160	1/2	120-1-60	500	78	65.5	56.6	55.9	.6	45	60	4.4	2.1	28,500	20,800	1"	FARR 30/30	180	250 PSIG	INTERNAL	SEE NOTES BELOW
FC 1-3	CARRIER 42BHW-016	HORIZONTAL FAN COIL	FIRST FLOOR ELECTRICAL RMS	1700	0.50	1160	3/4	460-3-60	500	78	65.5	56.8	55.9	.8	45	60	8.0	8.2	46,500	38,700	1"	FARR 30/30	260	250 PSIG	INTERNAL	SEE NOTES BELOW

GENERAL NOTES:

1. CONNECT (3/4" MIN) DRAIN TO NEAREST SINK, FLOOR DRAIN, OR PLUMBING FIXTURE TAIL PIECE; DITTO FOR CONDENSATE DRAIN LINE.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL DISCONNECT SWITCH AND STARTER IF REQUIRED.
3. INSTALL UNITS IN A MANNER ACCEPTABLE TO LOCAL CITY CODES PROVIDING REQUIRED ACCESS TO ALL UNIT ACCESS POINTS AND PROVIDING CLEAR SERVICE AREAS.
4. F.C. UNITS, VALVES, PIPINGS, ETC. TO BE RATED AT A MINIMUM OF 250 PSI WORKING PRESSURE UNLESS OTHERWISE NOTED.
6. PROVIDE ALL DUCTWORK ASSOCIATED WITH FAN COIL UNIT ABOVE AT 0.05" S.P./100FT. (MAX).
7. ALL F.C. UNITS SHALL HAVE LOCAL ROOM MOUNTED ON-OFF-AUTO SWITCHES AND THERMOSTATS(DDC SENSORS) FOR CONTROL TO MAINTAIN SPACE AT 75° F.
8. PROVIDE 2-WAY CONTROL VALVES.
11. CONTRACTOR SHALL PROVIDE AND INSTALL LINED SUPPLY & RETURN AIR PLENUMS ON FAN COILS WITH FLEXIBLE CONNECTIONS TO THE FAN.
12. CONTRACTOR SHALL PROVIDE AND INSTALL 1" LINED RETURN AIR PLENUM WITH FILTER RACK ASSEMBLY.
13. CONTRACTOR SHALL PROVIDE AND INSTALL DUCT TYPE SMOKE DETECTORS AT INLET & OUTLET OF EACH FAN COIL UNIT, OR ROOM AREA DETECTOR.
14. MECHANICAL CONTRACTOR SHALL PROVIDE SECONDARY DRAIN PANS FOR ALL FAN COILS. PLUMBING CONTRACTOR SHALL RUN 3/4" SECONDARY DRAIN LINE TO CENTER OF NEAREST DOORWAY AND TERMINATE 1/2" BELOW CEILING LINE.

10 EA @ 28,500 BTU = 285,000 BTU
1 EA @ 46,500 BTU = 46,500 BTU
TOTAL 331,500 BTU ≅ 28 TONS

LANGDON WILSON
ARCHITECTURE PLANNING INTERIORS

1055 WILSHIRE BOULEVARD, SUITE 1500, LOS ANGELES CALIFORNIA 90017-2449
213 250-1186

18800 VON KARMAN AVENUE, SUITE 200 IRVINE, CALIFORNIA 92612-1517
949 833-9193

455 NORTH THIRD STREET, SUITE 333 PHOENIX, ARIZONA 85004-3940
602 252-2535

Innovative Engineering Group, Inc.
2550 Corporate Place, Suite C100 Monterey Park, CA 91754
TEL: 323.262.9188
FAX: 323.262.9188

DEPT. OF BUILDING & SAFETY CITY OF LOS ANGELES MECHANICAL ENGINEERING DIVISION APPROVED

SOLUTION

NO. 22309

FOX

AREA ONE
NEW OFFICE BUILDING

FOX ENTERTAINMENT GROUP

10201 WEST PICO BLVD, LOS ANGELES, CA 90035

CONSTRUCTION PHASE			PRE-CONSTRUCTION PHASE	
REV.	BULLETIN	DATE	DATE	ISSUED FOR
1	ADDENDUM 1	2/24/05	3/17/04	SCHEMATIC DESIGN
			6/18/04	DESIGN DEVELOPMENT
			10/25/04	CD COORDINATION
			11/30/04	FOUNDATION ONLY PLANCHECK
			1/14/05	PLANCHECK SUBMITTAL & CMP #1
			4/04/05	1 CMP # 2 PERMIT

CHECKED BY
DATE APRIL 13TH 2004

SCALE 1/16"=1'-0"
JOB NUMBER 1413-006

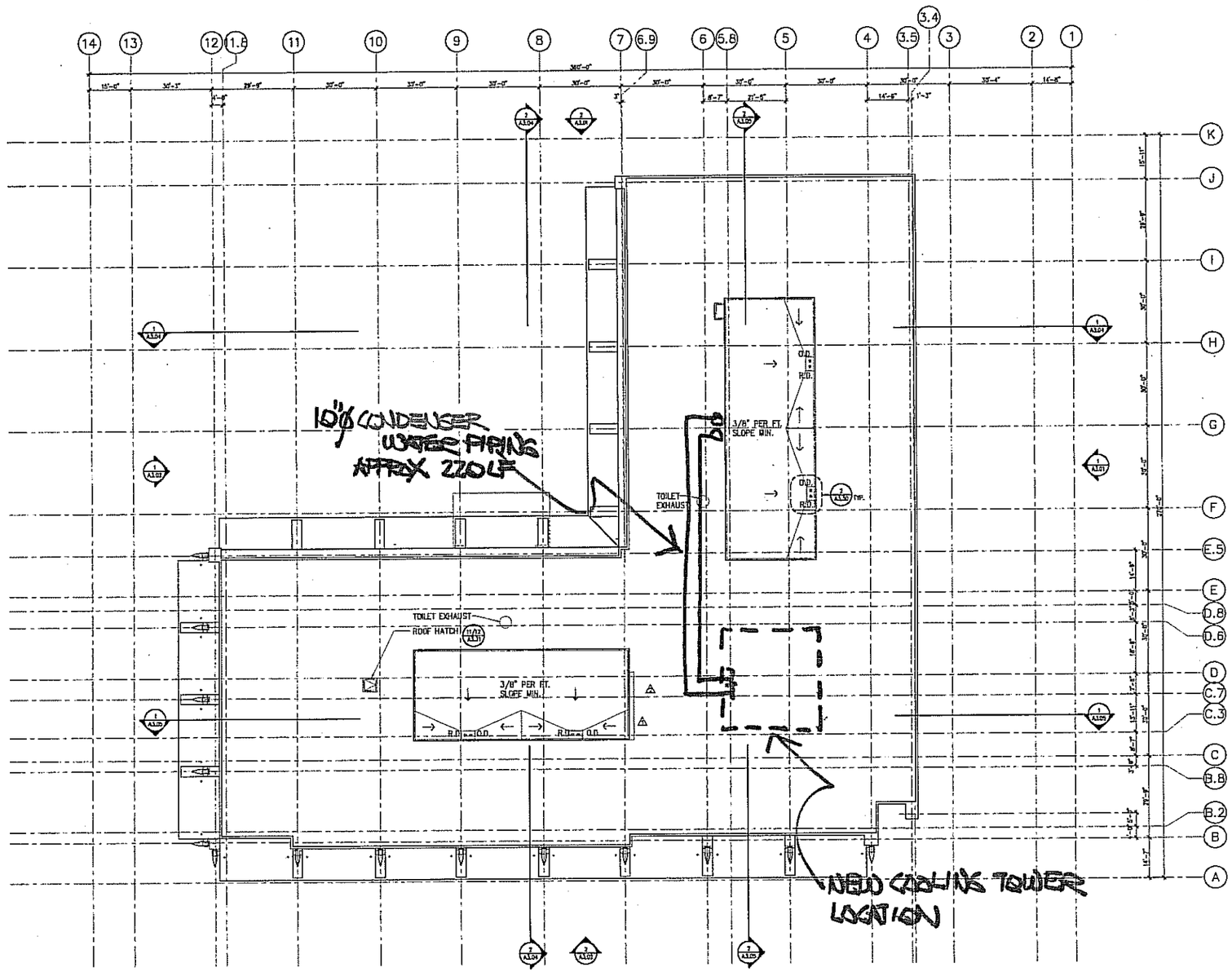
APPROVED/ARCHITECT

SHEET TITLE
MECHANICAL EQUIPMENT SCHEDULES

SHEET NUMBER
CAD I.D.

M-0.02

INTENTIONAL BLANK PAGE



LANGDON WILSON
ARCHITECTURE
PLANNING
INTERIORS

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
DISABLED ACCESS SECTION

SOLUTION

FOX

AREA ONE
NEW OFFICE BUILDING
FOX ENTERTAINMENT GROUP

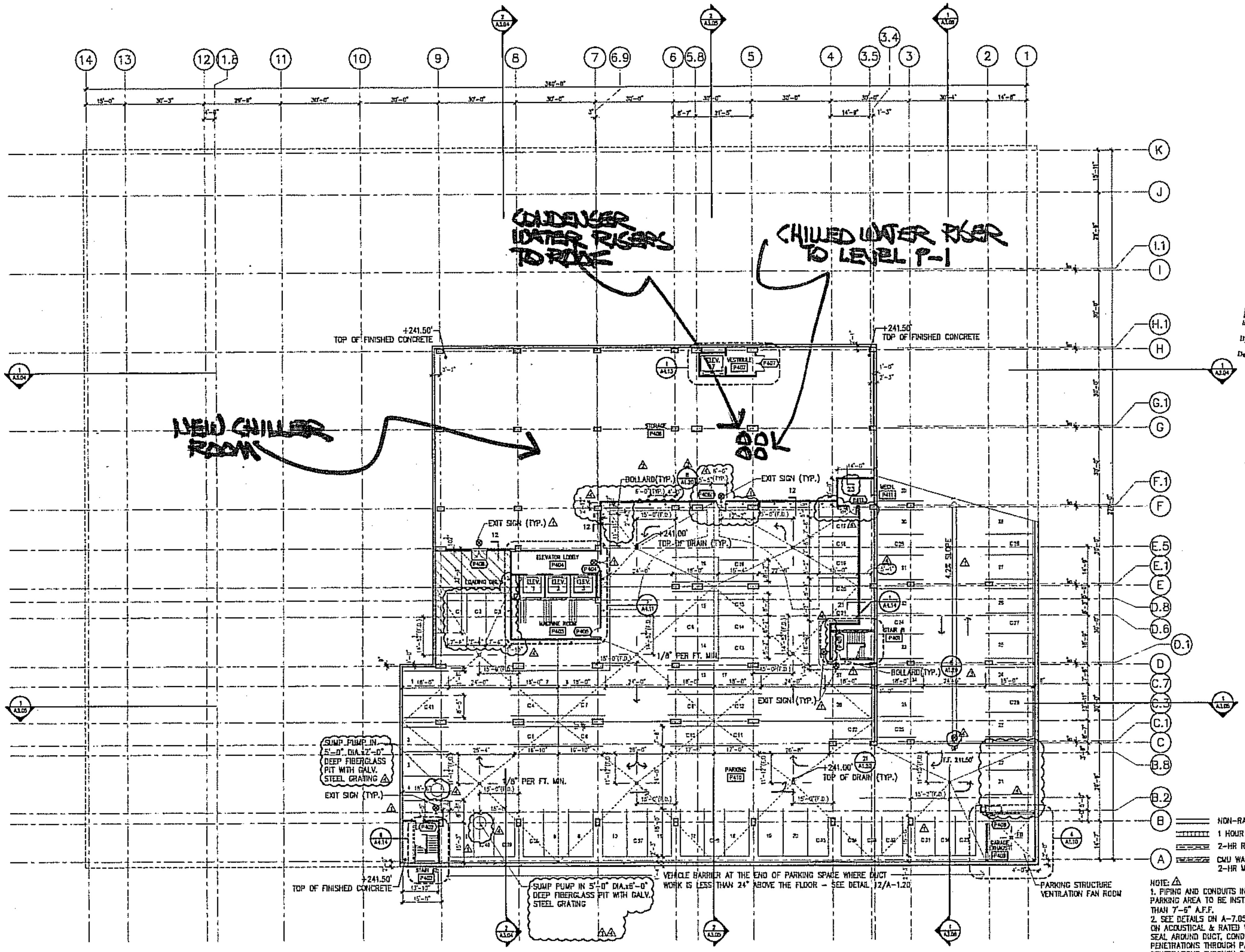
CONSTRUCTION PHASE			PRE-CONSTRUCTION PHASE	
REV.	BULLETIN	DATE	DATE	ISSUED FOR
1	ADDENDUM 1	2/16/05	5/18/04	SCHEMATIC DESIGN
2	STEEL PACKAGE	3/17/05	6/30/04	DESIGN DEVELOPMENT
3	CMF #3 SUBMITTAL	4/18/05	12/04/04	3I HOUSING PERMIT
4	BUILDING PERMIT	7/01/05	12/04/04	FOUNDATION ONLY PLAN CHECK
			1/14/05	PLAN CHECK SUBMITTAL & DWG
			1/31/05	FOUNDATION PERMIT

CHECKED BY | DATE APRIL 18, 2005
SCALE 1/16" = 1'-0" | JOB NUMBER L4130.000
APPROVED/ARCHITECT

SHEET TITLE
ROOF PLAN

SHEET NUMBER | CAD I.D.
A-2.11

INTENTIONAL BLANK PAGE



NON-RATED PARTITION
1 HOUR RATED PARTITION
2-HR RATED PARTITION
CMU WALL (SEE STRUCTURAL) 2-HR MIN. RATING

NOTE:
1. PIPING AND CONDUITS IN NON-ACCESSIBLE PARKING AREA TO BE INSTALLED NOT LOWER THAN 7'-6" A.F.F.
2. SEE DETAILS ON A-7.05 FOR INFORMATION ON ACOUSTICAL & RATED WALLS, ACOUSTICAL SEAL AROUND DUCT, CONDUIT & PIPE PENETRATIONS THROUGH PARTITIONS AND PIPE PENETRATIONS THROUGH CONCRETE SLAB.
3. SEE 11/A-1.21 FOR PIPE/CONDUIT PROTECTION DETAIL

SOLUTION

PARKING LAYOUT GENERAL NOTES

(UNLESS NOTED OTHERWISE)

1. ALL COMPACT PARKING SPACES (C) ARE 7'-10" WIDE
2. ALL PARKING SPACES WITHIN A COLUMN BAY ARE CENTERED WITHIN THAT BAY
3. ALL STANDARD PARKING SPACES ARE 9'-4" WIDE
4. ALL MOTORCYCLE PARKING SPACES ARE 4'-0" WIDE
5. THE CLEAR SPACE BETWEEN A PARKING SPACE AND A WALL OR COLUMN IS 10" MIN.
6. EACH PARKING SPACE IS MARKED BY A SINGLE LINE, SEE 1&2/A-1.20 FOR ACTUAL, TYPICAL STRIPING

AREA SUMMARY

LOCATION	GROSS AREA
P-1	91,883 S.F.
P-2	100,227 S.F.
P-3	100,010 S.F.
P-4*	31,755 S.F.
TOTAL	323,875 S.F.

*STORAGE GROSS AREA-11,319 S.F.

PARKING SUMMARY

CARS	LOCATION					
	P-1	P-2	P-3	P-4	DECK	FIRE LANE
STANDARD	124	159	160	37	35	37
COMPACT	46	108	116	41	8	–
ACCESSIBLE	17*	–	–	–	2*	–
TOTAL-890 SPACES PROVIDED	187	267	276	78	45	37

*2.1% OF 890 SPACES

MOTORCYCLE -TOTAL 20 SPACES AT P-1

N

LANGDON WILSON
ARCHITECTURE PLANNING INTERIORS

CITY OF LOS ANGELES DEPARTMENT OF BUILDING AND SAFETY DISABLED ACCESS SECTION

AREA ONE
NEW OFFICE BUILDING
FOX ENTERTAINMENT GROUP
10201 WEST PICO BLVD., LOS ANGELES, CA 90035

CONSTRUCTION PHASE			PRE-CONSTRUCTION PHASE	
REV.	BULLETIN	DATE	DATE	ISSUED FOR
1	ADDENDUM 1	3/14/05	5/19/04	SCHEMATIC DESIGN
2	STEEL PACKAGE	3/15/05	8/10/04	DESIGN DEVELOPMENT
3	CMP P1 SUBMITTAL	4/18/05	11/04/04	SHORING PERMIT
4	BUILDING PERMIT	7/01/05	11/30/04	FOUNDATION ONLY PLAN CHECK
			1/14/05	PLAN CHECK SUBMITTAL & CMP
			1/19/05	FOUNDATION PERMIT

CHECKED BY | DATE APRIL 13, 2005

SCALE 1/16" = 1'-0" | JOB NUMBER

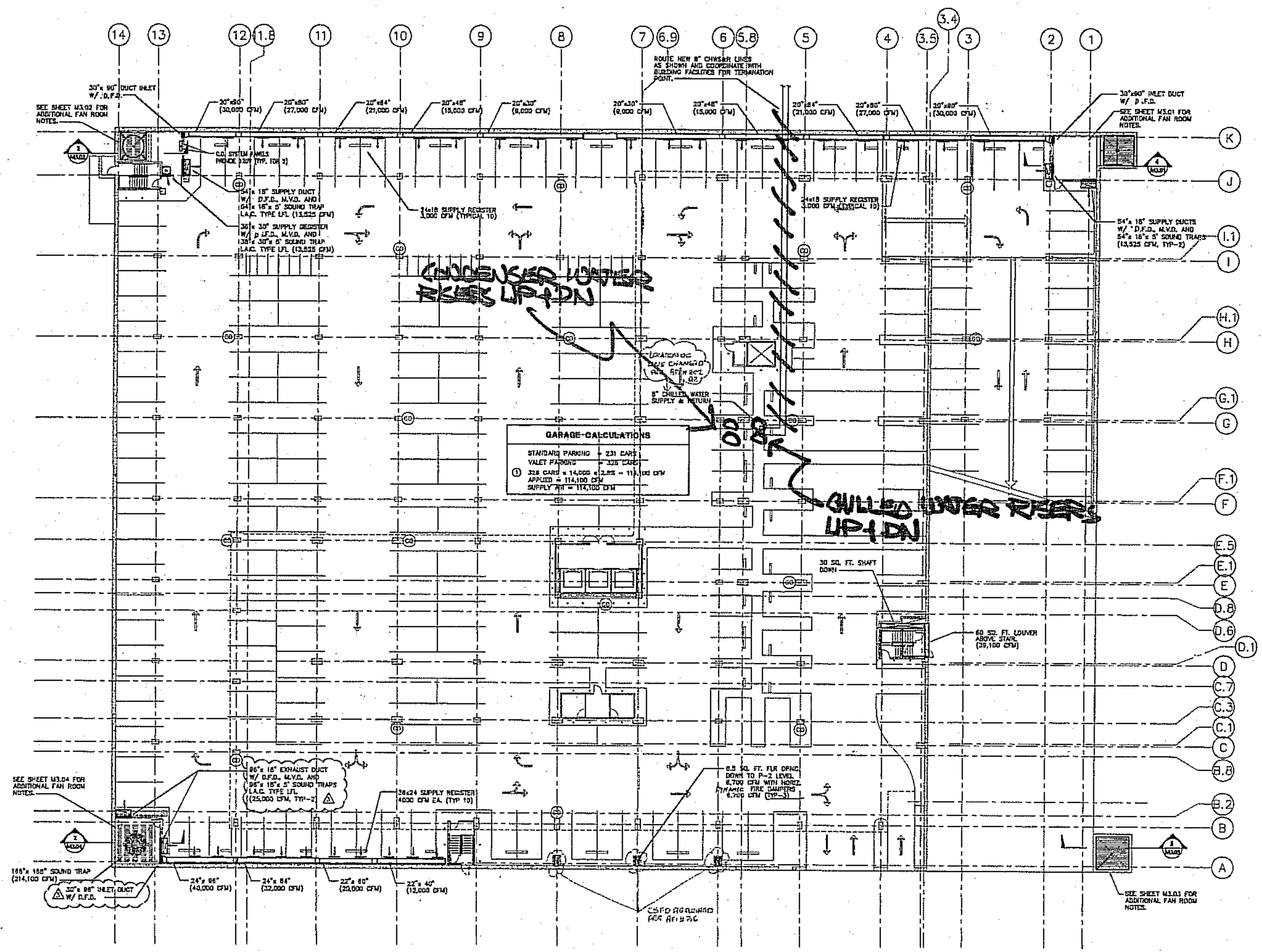
APPROVED/ARCHITECT

SHEET TITLE
P-4 LEVEL
FLOOR PLAN

SHEET NUMBER | CAD ID.

A-2.01

INTENTIONAL BLANK PAGE



MECHANICAL PARKING LEVEL P-1

⚠ ARCHITECTURAL WALL LEGEND

SYMBOL	TYPE
	RATED WALLS
	NON-RATED WALLS
	FUTURE WALLS
	CMU CONCRETE WALLS
	POURED CONCRETE WALLS

⚠ PLAN CHECK COMMENTS

1. PROVIDE DYNAMIC FIRE DAMPERS FOR ALL GARAGE (EXHAUST) DUCTS PENETRATING RATED SHAFTS IN THIS SHEET.
2. PROVIDE DUCT TYPE SMOKE DETECTORS WITHIN 5' OF ALL COMBINATION SMOKE FIRE DAMPERS.

GENERAL NOTES

1. CONTRACTOR SHALL INCLUDE IN HIS BID A COMPLETE GARAGE CARBON MONOXIDE DETECTION SYSTEM AS FOLLOWS:
   A. CONTROL PANELS ON EACH FLOOR
   B. MINIMUM OF ONE C.O. SENSOR PER 5000 SQ. FT.
   C. ONE (1) STROBE & ONE (1) AUDIBLE ALARM PER EACH FAN ZONE.
   D. ALL LEVELS EXCEPT P-4 SHALL HAVE TWO C.O. ZONES.
2. CARBON MONOXIDE SYSTEM SHALL BE MANUFACTURED BY "MACURCO INC." (818) 845-2951, OR EQUAL.

LANGDON WILSON
ARCHITECTURE PLANNING INTERIORS

1055 WILSHIRE BOULEVARD, SUITE 1500, LOS ANGELES CALIFORNIA 90017-2449
213 250-1186

18800 VON KARMAN AVENUE, SUITE 200
IRVINE, CALIFORNIA 92612-1517
949 833-9193

455 NORTH THIRD STREET, SUITE 333
PHOENIX, ARIZONA 85004-3940
602 253-2555

Innovative Engineering Group, Inc.
2550 Corporate Place, Suite C100 TEL: 323.262.9199
Monterey Park, CA 91754 FAX: 323.262.9198

FOX

AREA ONE
NEW OFFICE BUILDING

FOX ENTERTAINMENT GROUP

10201 WEST PICO BLVD, LOS ANGELES, CA 90035

CONSTRUCTION PHASE			PRE-CONSTRUCTION PHASE	
REV.	BULLETIN	DATE	DATE	ISSUED FOR
⚠	ADDENDUM 1	2/14/05	3/17/04	SCHEMATIC DESIGN
			8/10/04	DESIGN DEVELOPMENT
			10/25/04	CD COORDINATION
			11/30/04	FOUNDATION ONLY PLANCHECK
			1/14/05	PLANCHECK SUBMITTAL & CMP #1
			4/04/05	⚠ CMP # 2 PERMIT

CHECKED BY DATE APRIL 13TH, 2004

SCALE 1/16"=1'-0" JOB NUMBER L413-000

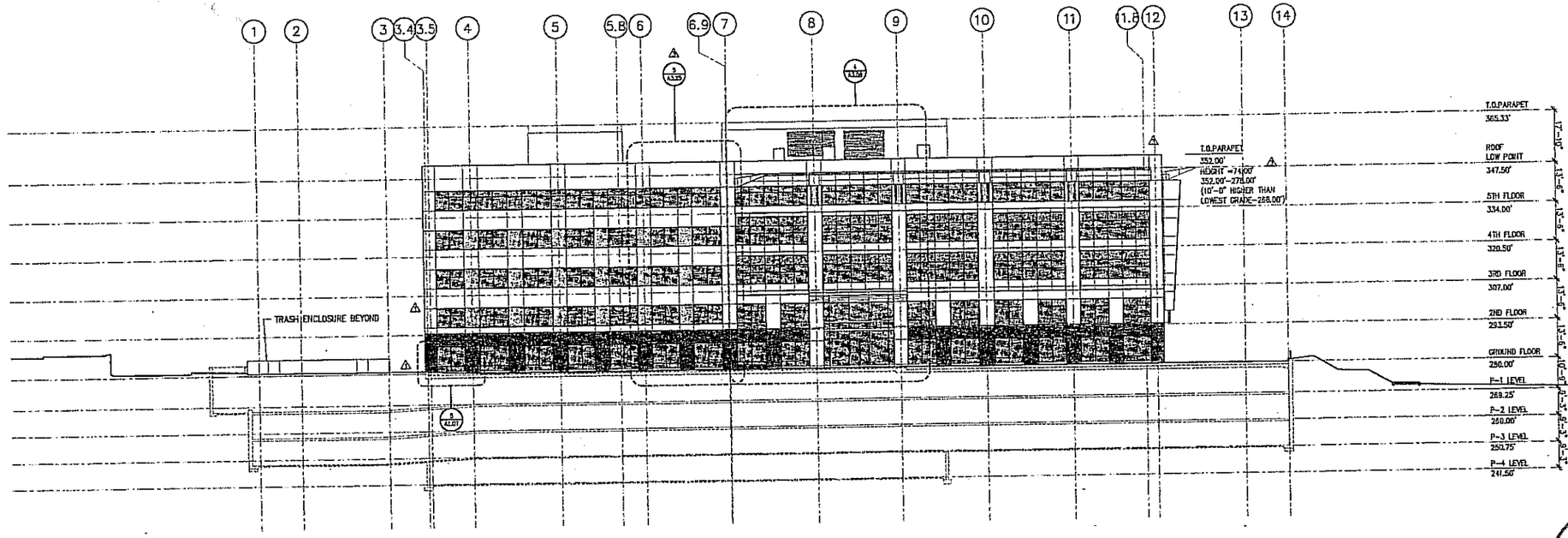
APPROVED/ARCHITECT

SHEET TITLE
PARKING LEVEL P-1

SHEET NUMBER CAD I.D.

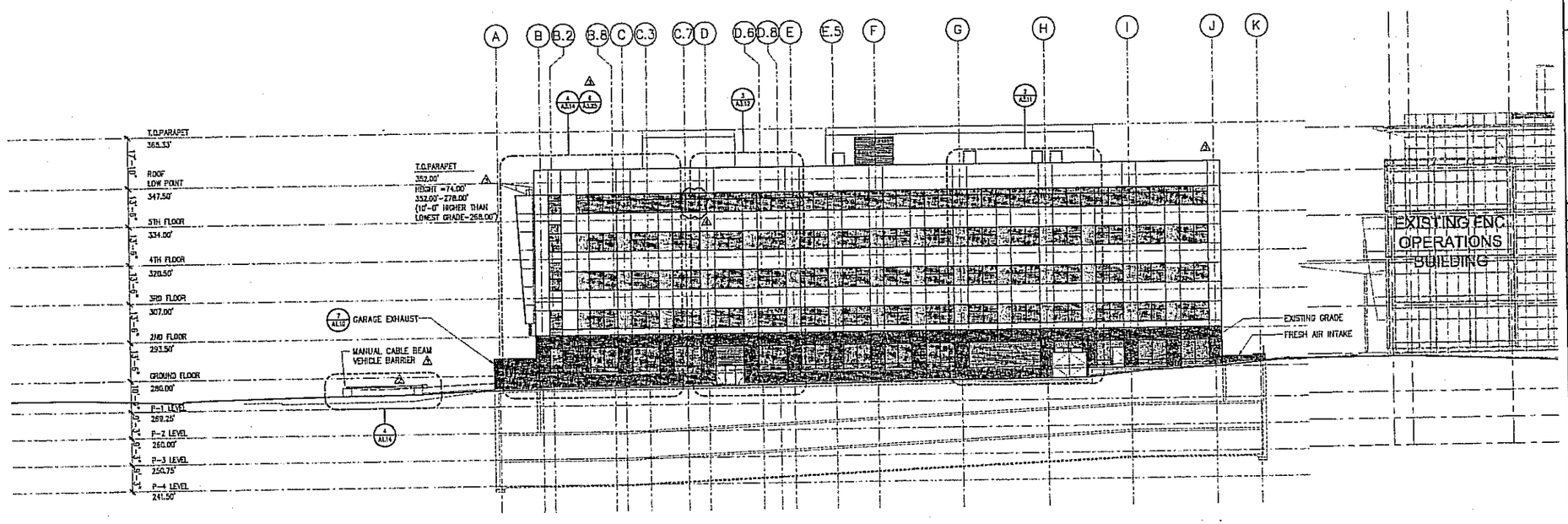
M-1.04

INTENTIONAL BLANK PAGE



NORTH EXTERIOR ELEVATION

SCALE : 1/16" = 1'-0" | 2



EAST EXTERIOR ELEVATION (AVENUE OF THE STARS)

SCALE : 1/16" = 1'-0" | 1

LANGDON WILSON
ARCHITECTURE
PLANNING
INTERIORS

1888 WILSHIRE BOULEVARD, SUITE 1000, LOS ANGELES
CALIFORNIA, 90017-5449
213 250-1584

18881 VON KARMAN AVENUE, SUITE 1030
IRVINE, CALIFORNIA 92612-1517
949 833-8123

455 NORTH THIRD STREET, SUITE 333
PHOENIX, ARIZONA 85004-3940
602 253-2555

CITY OF LOS ANGELES
DEPARTMENT OF BUILDING AND SAFETY
DISABLED ACCESS SECTION

This set of plans and specifications has been reviewed and is approved for compliance with state and local laws and ordinances related to accessibility to public accommodations and housing.

The stamping of this set of plans and specifications shall not be held to permit or to be an approval of the violation of any provisions of federal, state, and local laws and ordinances related to accessibility to public accommodations and housing.

By _____ Title _____ Date _____

SOLUTION

FOX

AREA ONE
NEW OFFICE BUILDING
FOX ENTERTAINMENT GROUP
10201 WEST PICO BLVD., LOS ANGELES, CA. 90035

CONSTRUCTION PHASE			PRE-CONSTRUCTION PHASE	
REV.	BULLETIN	DATE	DATE	ISSUED FOR
1	ADDENDUM 1	2/14/05	1/19/04	SCHEMATIC DESIGN
2	STEEL PACKAGE	2/21/05	6/30/04	DESIGN DEVELOPMENT
3	CNF #3 SUBMITAL	4/28/05	12/14/04	30 PERCENT PERMIT
4	BUILDING PERMIT	7/01/05	12/30/04	FOUNDATION ONLY SUBMITTED
			1/14/05	RUN ONLY SUBMITAL & DRAWINGS
			1/19/05	FOUNDATION PERMIT

CHECKED BY _____ DATE APRIL 28, 2005

SCALE 1/16" = 1'-0" JOB NUMBER L03-0408

APPROVED/ARCHITECT _____

SHEET TITLE
NORTH & EAST
EXTERIOR ELEVATIONS

SHEET NUMBER CAD ID.
A-3.01

INTENTIONAL BLANK PAGE

TAB 8

INTENTIONAL BLANK PAGE

8. ASC 2009 PCL BIM Problem Statement

The new Fox Office Building is just south of an existing office building (FNC Operations Building) with 3 stories of underground parking, see sheet A-1.02A. There is a bundle of fiber optic cables running underground between the two buildings, see sheet C-1.02. These fiber optic cables transmit the entirety of Fox's programming to the outside world. The cost of damaging these cables is 5 Million Dollars a minute of interrupted service. All necessary precautions need to be taken to avoid damaging these cables when drilling shoring tie-backs for the new building.

The shoring engineer designed the tiebacks for the north underground wall to enter the ground per the SH- series drawings, but he did not have all of the as-built information of the existing conditions.

We have established a 7'-0" "safety zone" from all sides of the 11"x11" conduit bank that the tieback can not violate. See C-1.20. Determine if the tiebacks at soldier pile #36 and #1 (4 total, 2 at each soldier pile) violate the safety zone and or conflict with any other existing conditions. (You may assume sections 1 and 4 on C-1.02 are cut at the tiebacks at soldier piles #36 and #1)

If the tiebacks conflict with the safety zone or any other existing conditions determine the most efficient tie-back angle to resolve the conflict. Tieback length increases 2'-0" for every 5° see Tieback Angle Variance Chart. Maintain 5'-0" clear between Tiebacks. The longer the tieback the more it cost to install.

The solution for this problem may be determined and presented with 3D software, 2D software or by hand sketches and manual calculations.

Electronic .dwg files have been provided for your solution development utilizing software. Your team may choose to develop a manual solution.

<u>Deliverables;</u>

- Narrative indicating revisions, if any, to the 4 tiebacks.
- Sketches/cross sections to visually demonstrate location of tiebacks in relation to the existing conditions.
- Optional-Prints of any 3D images to visually demonstrate problem solutions.

ASC 2009 PCL BIM Problem Solution

The most efficient angle for the tiebacks are as follows:

#36 Top Tieback = 32° - 35°
#36 Bottom Tieback = 28° - 30°

#1 Top Tieback = 24°- 25°
#1 Bottom = Unchanged (20°- 25°)

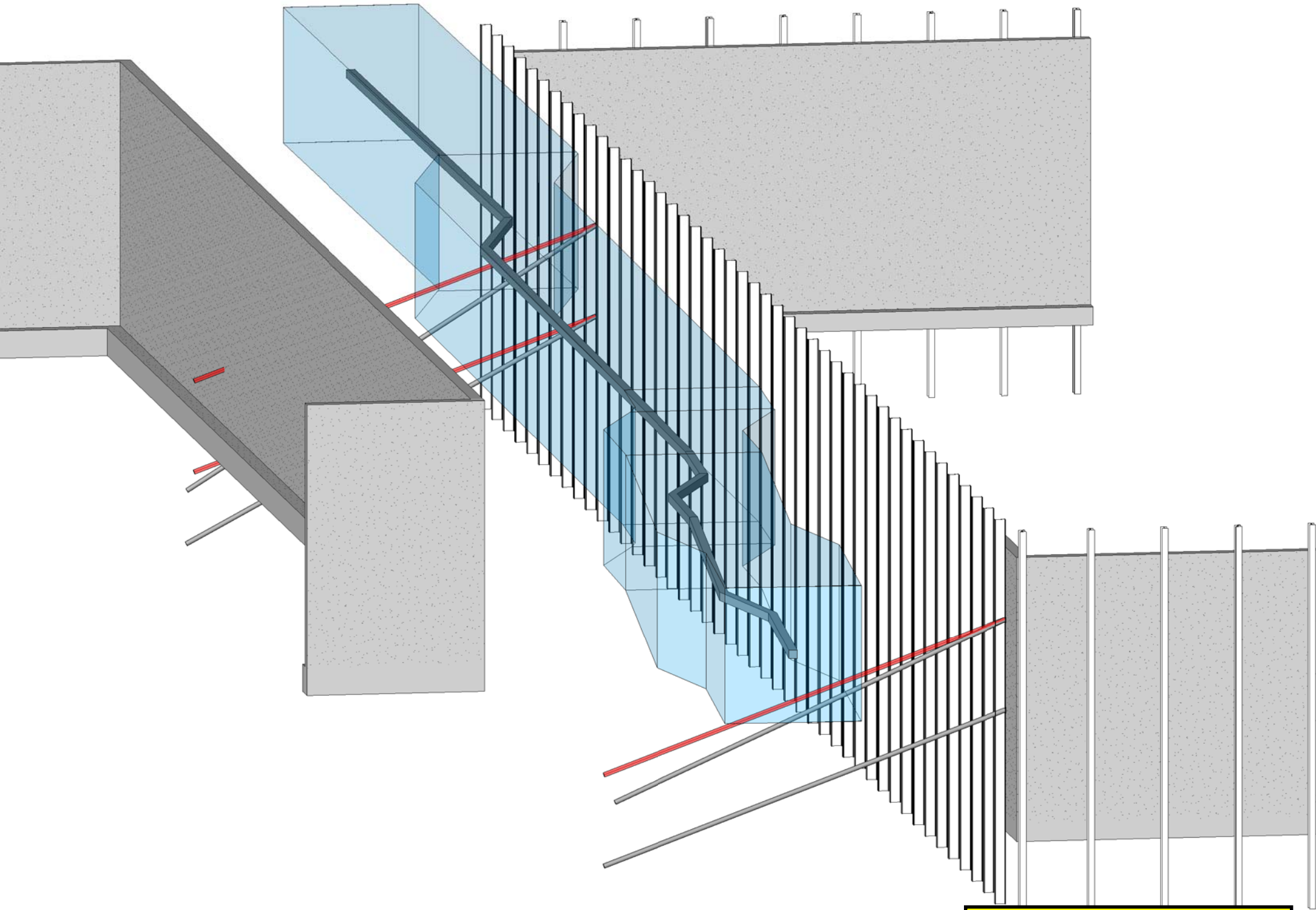
Note: Steeper angles are acceptable as long as but will result in additional cost

Bonus:

3D derived Deliverable

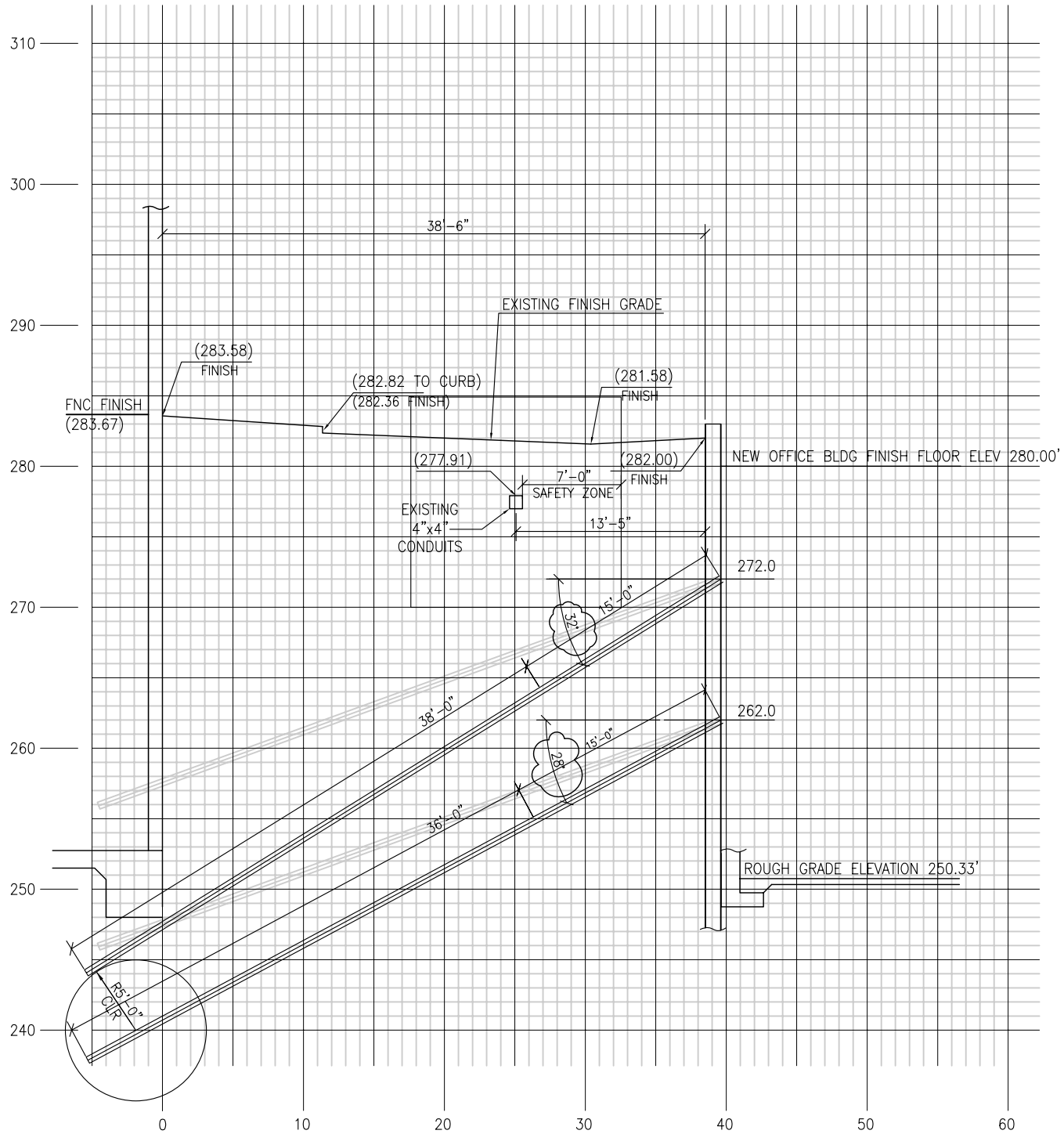
Cad derived Deliverable

Mention of possible conflict between soldier pile 32 and manhole.



Isometric Looking South East

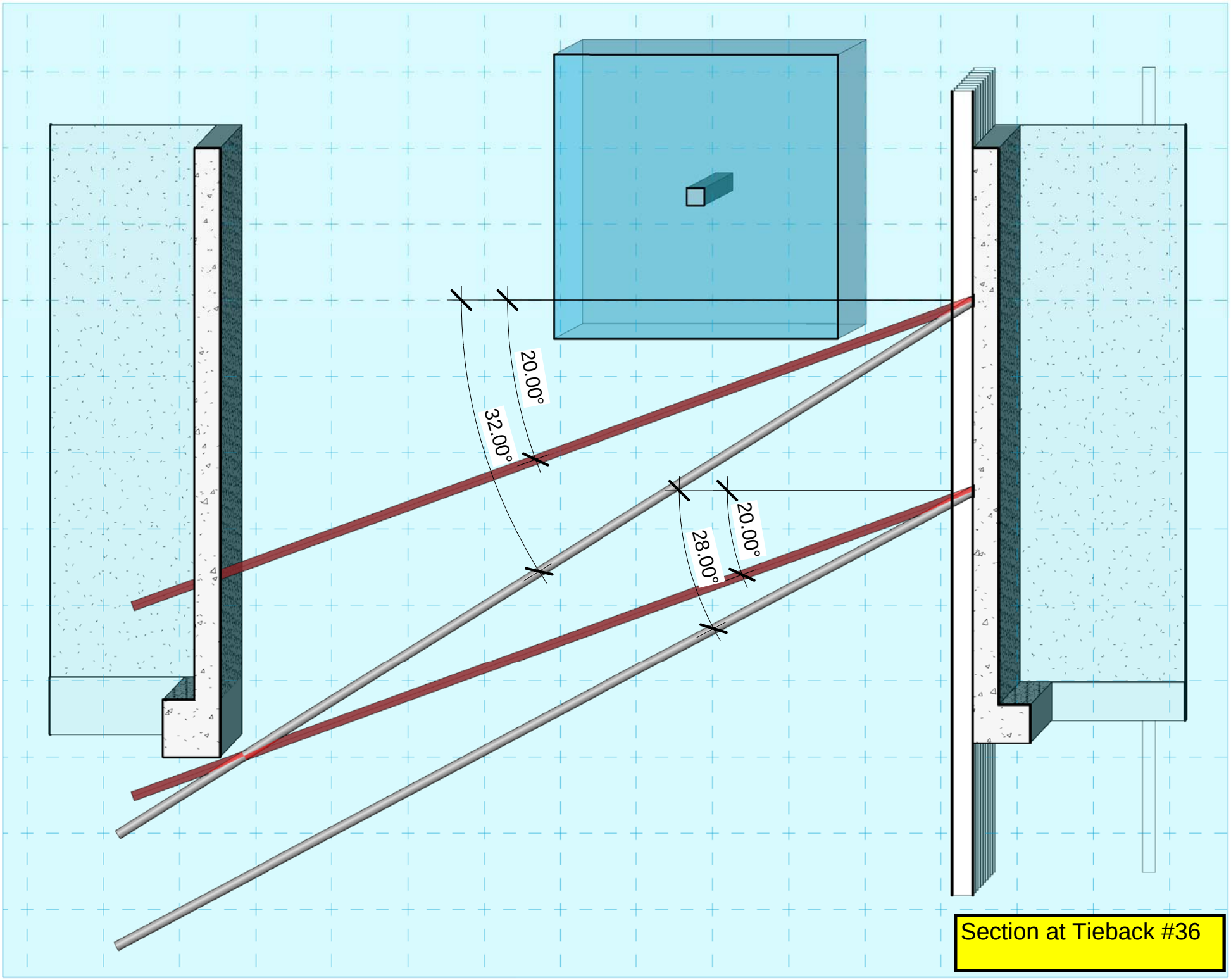
INTENTIONAL BLANK PAGE



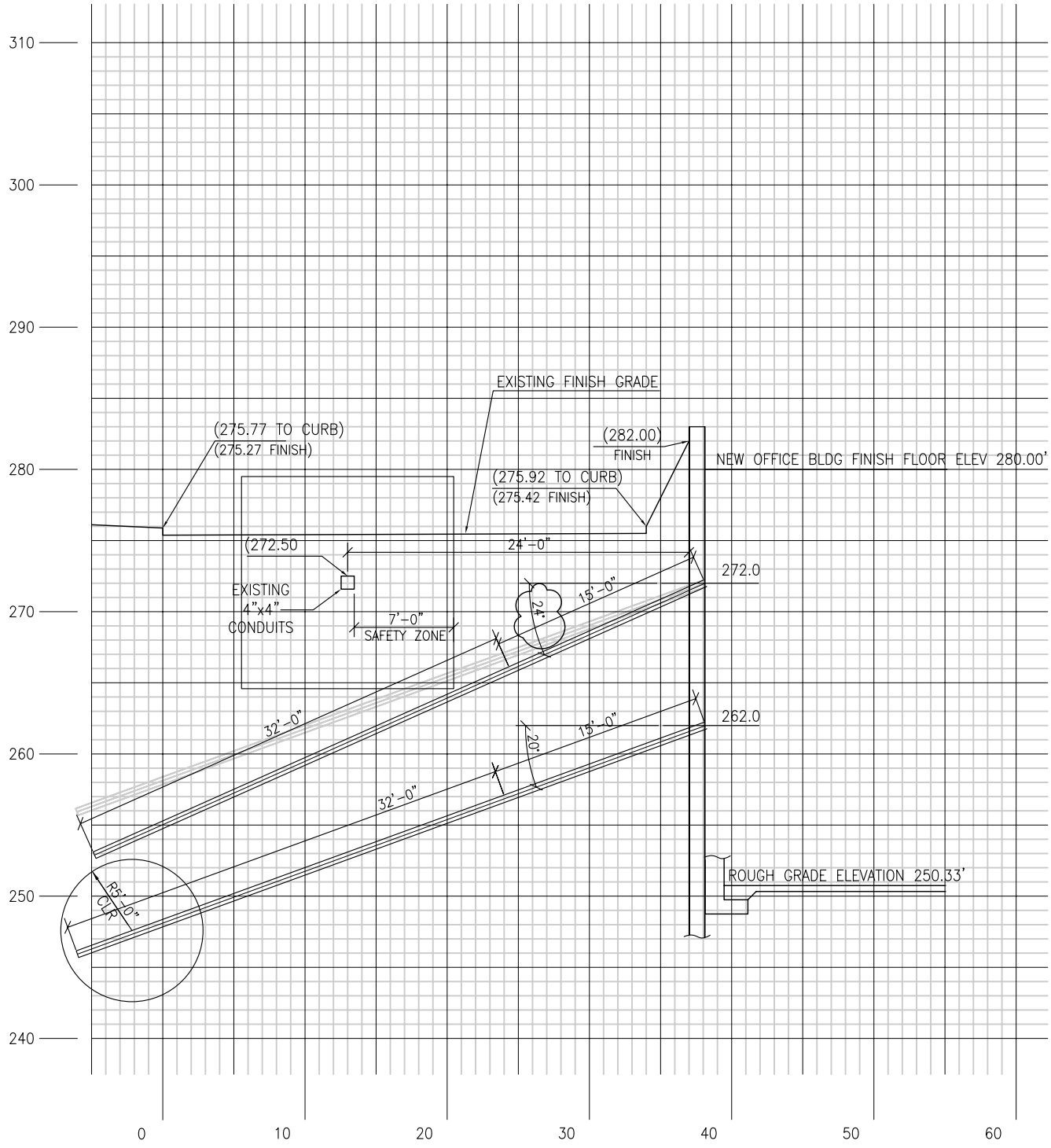
SOLUTION AT SOLDIER BM 36

SK-1

INTENTIONAL BLANK PAGE


20.00°
32.00°
20.00°
28.00°
Section at Tieback #36

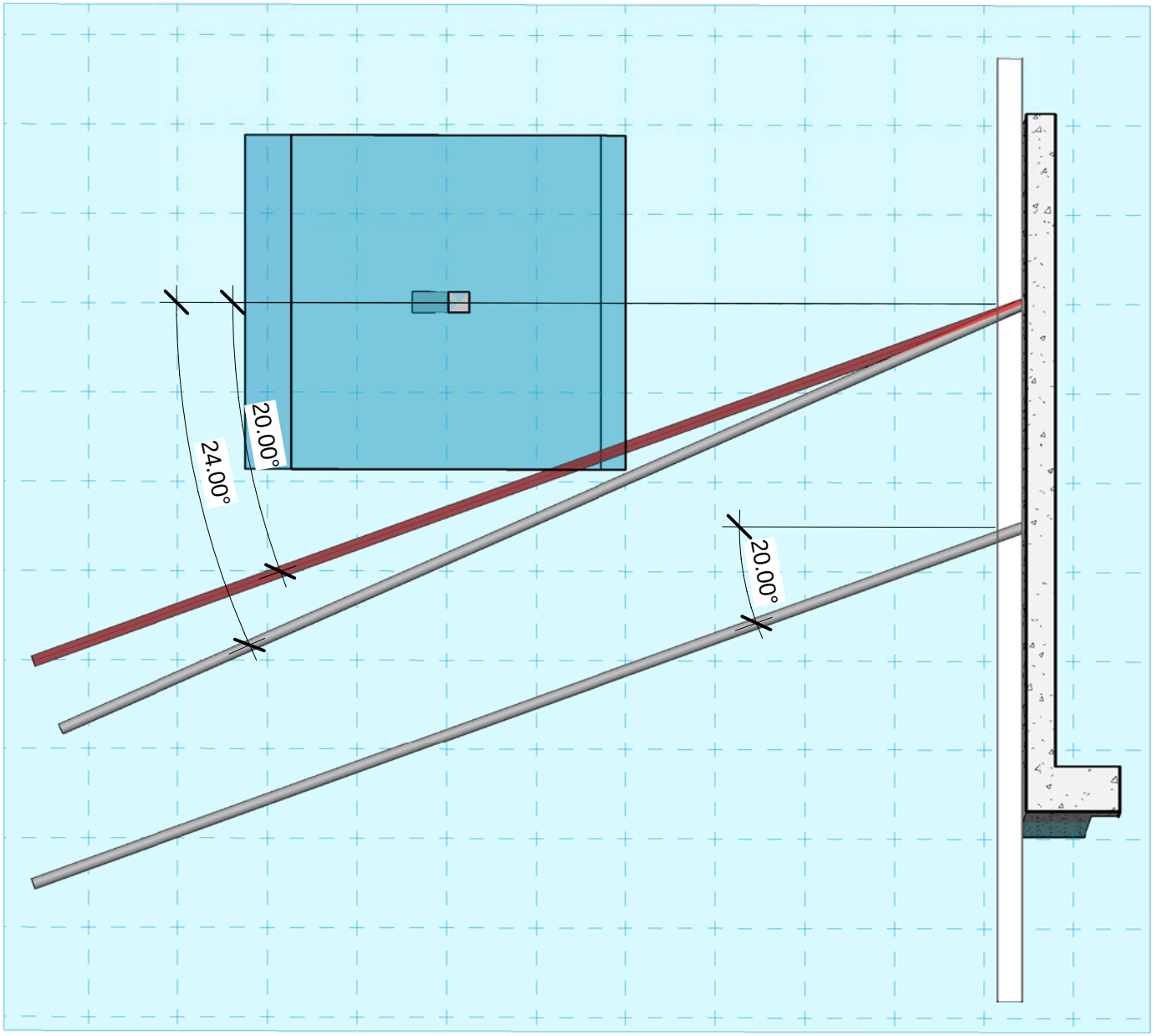
INTENTIONAL BLANK PAGE



SOLUTION AT SOLDIER BM 1

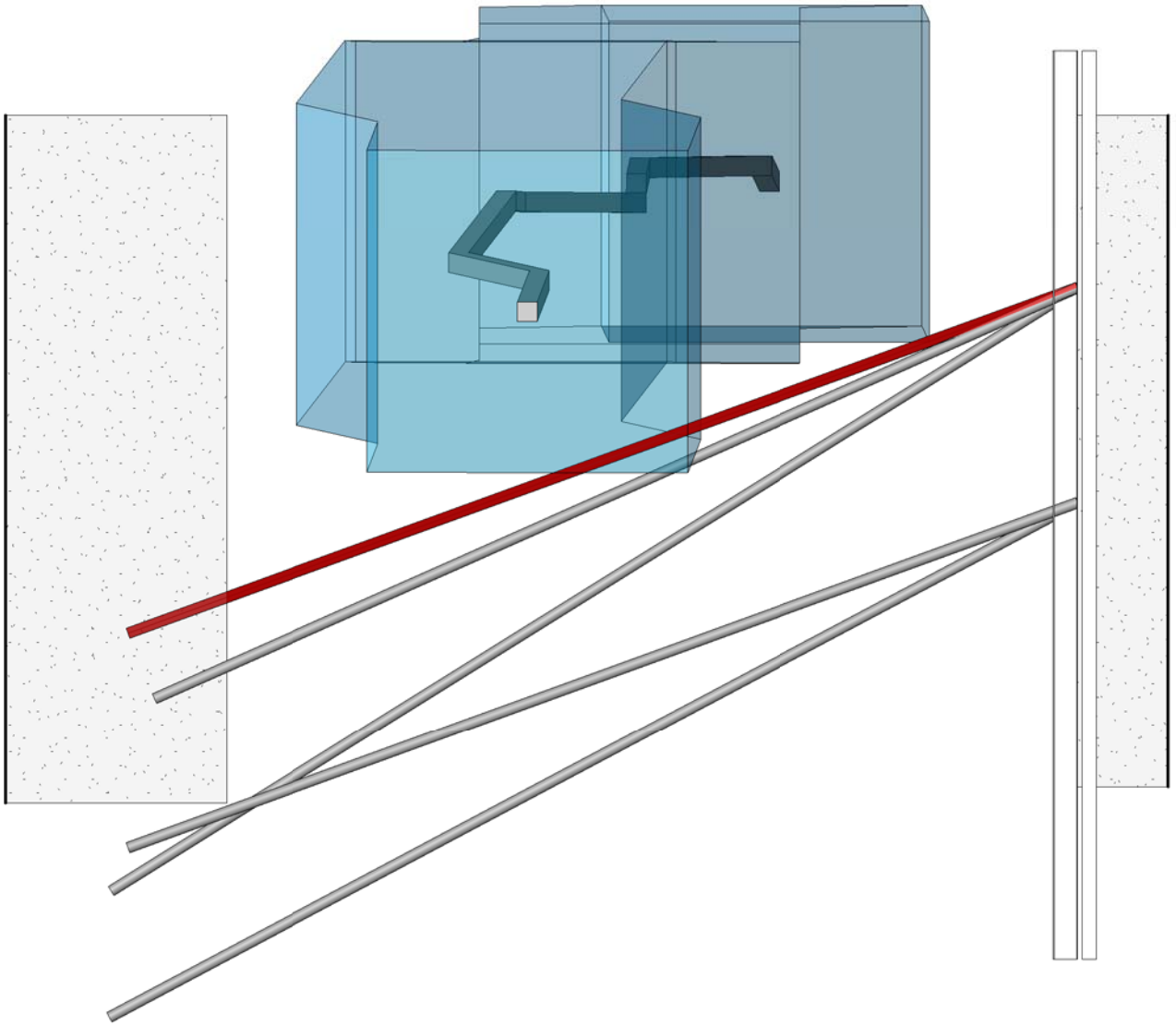
SK-2

INTENTIONAL BLANK PAGE



Section at Tieback #1

INTENTIONAL BLANK PAGE



Misc Section Looking West

INTENTIONAL BLANK PAGE

TAB 9

INTENTIONAL BLANK PAGE

9. LEED ™ Analysis

The developer has questioned the team about possibly marketing a LEED™ for Core and Shell project.

Certifying a LEED™ project requires the combined effort of the entire project team. The owners, architect, consultants, and the construction team must all contribute in order to successfully certify a LEED™ building. After initial meetings conducted between the owner and the design team, 22 points have already been determined to be achievable. It is time for the construction team to provide their input on the amount of additional LEED™ points that they consider feasibly attainable.

Make a recommendation stating the number of LEED™ points attainable as follows:

1) Determine which additional points can be achieved at no additional cost to the owner to reach LEED Certified. Fill out a scorecard for LEED Certified and provide a narrative on the reasoning behind the selection of the points your team used to achieve LEED Certified.
2) Determine which additional points can be achieved at the lowest cost to the owner to reach LEED Silver. Fill out a scorecard for LEED Silver and provide a narrative on the reasoning behind the selection of the points your team used to achieve LEED Silver and an estimate of the additional costs.
3) Determine which additional points can be achieved and the cost to the owner to reach LEED Gold. Fill out a scorecard for LEED Gold and provide a narrative on the reasoning behind the selection of the points your team used to achieve LEED Gold and an estimate of the additional costs.

The following is a list of points that have been predetermined by the owner and design team. This information is also reflected in the LEED™ CS score card provided. Your Team only needs to evaluate the credits in the "?" column of the scorecard provided. Do Not change any previously predetermined credits by the owner and A/E Team.

Sustainable Sites

Credit 1 – Site Selection – 1pt
Credit 2 - Development Density and Community Connectivity – Unattainable
Credit 3 – Brownfield Redevelopment – Unattainable
Credit 4.1 – Alternative Transportation, Public Transportation – 1pt
Credit 4.4 – Alternative Transportation, Parking Capacity – Unattainable
Credit 5.1 – Site Development, Protect or Restore Habitat - Unattainable
Credit 5.2 – Site Development, Maximize Open Space – Unattainable
Credit 8 – Light Pollution Reduction – 1 pt
Credit 9 – Tenant Design & Construction Guidelines – 1pt

Water Efficiency

Credit 1.1 Water Efficient Landscaping, Reduce by 50% – Unattainable
Credit 1.2 Water Efficient Landscaping, No Potable Use or No Irrigation – Unattainable
Credit 3.2 Water Use Reduction, 30% Reduction - Unattainable

Energy and Atmosphere
Credit 1.5 – Optimize Energy Performance – 24.5% New Buildings – 5pts
Credit 2 – On Site Renewable Energy – Unattainable
Credit 3 – Enhanced Commissioning – 1pt
Credit 4 – Enhanced Refrigerant Management – Unattainable
Credit 5.2 - Measurement and Verification: Tenant Sub-Metering – *1pt*
Credit 6 – Green Power – 1 pt

Materials and Resources
Credit 1.1 Building Reuse, Maintain 25% of Existing Walls, Floors & Roof – 1 pt
Credit 1.2 Building Reuse, Maintain 50% of Existing Walls, Floors & Roof – Unattainable
Credit 1.3 – Building Reuse, Maintain 75% of Interior Non-Structural Elements - Unattainable
Credit 3 - Materials Reuse, 1% - 1 pt
Credit 4.1 – Recycled Content, 10% (Post Consumer + ½ Pre-Consumer) – 1 pt
Credit 4.2 – Recycled Content, 20% (Post Consumer + ½ Pre-Consumer) – 1 pt
Credit 5.1 – Regional Materials, 10% Extracted, Processed and Manufactured – 1pt.
Credit 5.2 – Regional Materials, 20% Extracted, Processed and Manufactured – Unattainable
Credit 6 – Certified Wood – Unattainable

Indoor Environmental Quality
Credit 1 – Outdoor Air delivery Monitoring – 1 pt
Credit 2 - Increased Ventilation – Unattainable
Credit 4.1 – Low- Emitting Materials, Adhesives & Sealants – 1 pt
Credit 4.2 – Low- Emitting Materials, Paints and Coatings – 1 pt
Credit 4.3 – Low-Emitting Materials, Carpet Systems – Unattainable
Credit 4.4 – Low Emitting Materials, Composite Wood & Agrifiber Products – Unattainable
Credit 5 – Indoor Chemical & Pollutant Source Control – 1 pt
Credit 6 – Controllability of Systems, Thermal Comfort – 1 pt
Credit 7 – Thermal Comfort, Design – 1 pt
Credit 8.1 – Daylight & Views, Daylight 75% of Spaces – Unattainable
Credit 8.2 – Daylight & Views, Daylight 90% of Spaces – Unattainable

Innovation & Design Process
Credit 1.1, 1.2, 1.3, 1.4 – Innovation in Design - Unattainable

Deliverable:

1. *Completed LEED™ Scorecard and Narrative for each of 3 levels of LEED (Certified, Silver & Gold)*

LEED Analysis Solution

Prepared By: *Daniel Parras – PCL*

SS Credit 4.2 Alternative Transportation: *Bicycle Storage and Changing Rooms* – 1pt

$5,000 (No showers)
Obtain gross sq ft per employee from appendix 1 – 250 sq ft/employee
Total office building square footage – 199,369 sq ft
FTE – 798 occupants

Required Bicycle racks – 24 spaces
Showers Required – 4 Showers

This LEED point is feasible to obtain since bicycle racks are already required adjacent to the building's entrance. Moreover, there is a planned fitness center in the ground floor and even though there is no explicit information showing showers, it is reasonable to assume showers and changing rooms will be included in the Fitness Center.

SS Credit 4.3 Alternative Transportation, *Low Emitting & Fuel Efficient Vehicles* – 1pt

No Cost
Total Vehicle Parking Capacity – 890 Spaces

Required FEV Parking Spaces - 50

50 spaces designated for fuel efficient vehicles can be provided at no cost to meet this requirement.

SS Credit 6.1 Stormwater Design: *Quantity Control* – 1pt

$80,000 (2 dry-wells)
To meet this credit, green roofs, pervious parkways or other permeable surfaces could be placed in lieu of the design surfaces. This could not be done at a minimal cost.
In addition, bio swales or dry-wells could also be installed on site to meet the requirements of this credit. Similarly though this alternative would come as an additional cost to the owner.

SS Credit 6.2 Stormwater Design: *Quality Control – 1 pt*

$80,000 (quantity control cost includes quality control)
To meet this credit the 80% of the quantity of TSS (total suspended solids) in discharge streams must be removed. Similar to Credit 6.1, green roofs, pervious parkways or other permeable surfaces could be placed in lieu of the design surfaces to meet this credit. However there would be an additional cost to the owner to implement.
In addition, bio swales or dry-wells could also be installed on site to meet the requirements of this credit. Similarly though this alternative would come at significant additional cost to the owner.

SS Credit 7.1: Heat Island Effect: *Non-Roof – 1pt*

$300,000 (high SRI elastomeric coating)

To meet this credit the existing asphaltic surfaces could be coated to raise the pavement's SRI to an acceptable level. This could be done at a significant additional cost to the owner.

SS Credit 7.2: Heat Island Effect: *Roof – 1pt*

$40,000 (high SRI elastomeric coating)

Since the roof of the Fox Studios office building is a low slope roof. To meet the requirements of this credit, the roof has to be coated with a material that has an SRI greater than or equal to 78. White roof coatings or other coatings of high reflectivity are recommended.

WE Credit 2: Innovative Wastewater Technologies - Unattainable

This credit cannot be obtained without significant additional costs to the project. This credit involves reducing the use of potable water for sewer conveyance by 50% by using alternative sources of non-potable water. Recycled rainwater, treated waste water, or municipally treated waste water could all be sources to consider when achieving this credit. Not recommended.

WE Credit 3.1: Water Use Reduction: *20% Reduction – 1pt*

$5000

This credit can be achieved by changing all flow fixtures to high efficiency fixtures. Lavatories faucets, water closets, urinals, showers and kitchen sinks can all be composed of high efficiency fixtures to achieve this credit.

EA Credit 5.1 Measurement and Verification: *Base Building – 1pt*

No Cost

To meet the requirements of this credit, metering of the buildings energy performance will be done 1x every year to check the systems yearly performance against their designed performance. The information will be made readily available to the owner in order to make this process simple and non tedious.

MR Credit 2.1 Construction Waste Management: Divert 50% From Disposal – 1pt

No Cost

To achieve this credit present a waste management plan that will highlight the key strategies to divert the targeted amount of construction waste. This is normally easy to do at no additional costs using a reputable waste management vendor.

MR Credit 2.2 Construction Waste Management: Divert 75% From Disposal – 1pt

$10,000

To achieve this credit present a waste management plan that will highlight the key strategies to divert the targeted amount of construction waste. The level of waste reduction may involve diversion at an additional costs.

EQ Credit 3: *Construction IAQ Management Plan: During Construction – 1pt*

No Cost, to meet the requirements of this credit, present an Indoor Air Quality Management Plan during Construction. Refer to SMACNA IAQ guidelines for buildings under construction.

ID Credit 2 – LEED Accredited Professional – *1 pt*

No Cost, reputable construction contractors should have LEED AP's in their staff to associate to the project and meet the requirements of this credit. This may also be obtained from someone on the owner of A/E staff.

<u>Certified</u>

22 of predetermined points
+ SS Credit 4.3 Alternative Transportation, *Low Emitting & Fuel Efficient Vehicles* – 1pt
No Cost
+ EA Credit 5.1 Measurement and Verification: *Base Building – 1pt*
No Cost
+ MR Credit 2.1 Construction Waste Management: Divert 50% From Disposal – 1pt
No Cost
+ EQ Credit 3: *Construction IAQ Management Plan: During Construction – 1pt*
No Cost
+ ID Credit 2 – LEED Accredited Professional – *1 pt*
No Cost
=27 points, Certified No cost

<u>Silver</u>

27 points of certified level points, no cost
+ SS Credit 4.2 Alternative Transportation: *Bicycle Storage and Changing Rooms* – 1pt
$5,000 (No showers)
+ WE Credit 3.1: Water Use Reduction: *20% Reduction – 1pt*
$5000
=29 points, $10,000 additional cost

<u>Gold</u>

29 of silver level points, $10,000 cost
+ SS Credit 6.1 Stormwater Design: *Quantity Control* – 1pt
$80,000 (2 dry-wells)
+ SS Credit 6.2 Stormwater Design: *Quality Control – 1 pt*
No Cost if 6.1 is bought
+ SS Credit 7.1: Heat Island Effect: *Non-Roof – 1pt*
$300,000 (high SRI elastomeric coating)
+ SS Credit 7.2: Heat Island Effect: *Roof – 1pt*
$40,000 (high SRI elastomeric coating)
+ MR Credit 2.1-2.2 Construction Waste Management: Divert 75% From Disposal – 1pt
$10,000
=34 points, $430,000 additional cost + $10,000 for Silver, Total Cost of $440,000

INTENTIONAL BLANK PAGE

LEED for Core and Shell v2.0
Registered Project Checklist

Solution
No Cost, Achieve Certification

Project Name: Fox Office Building #103

Project Address: 10201 W. Pico Blvd, Los Angeles, CA 90035

Yes	?	No	
27	0	28	**Project Totals** (Pre-Certification Estimates) 69 Points
CERTIFIED			**Certified**: 23-27 points **Silver**: 28-33 points **Gold**: 34-44 points **Platinum**: 45-61 points

Yes	?	No			
5		10	**Sustainable Sites**		15 Points
Yes			Prereq 1	**Construction Activity Pollution Prevention**	Required
1			Credit 1	**Site Selection**	1
		1	Credit 2	**Development Density & Community Connectivity**	1
		1	Credit 3	**Brownfield Redevelopment**	1
1			Credit 4.1	**Alternative Transportation**, Public Transportation	1
		1	Credit 4.2	**Alternative Transportation**, Bicycle Storage & Changing Rooms	1
1			Credit 4.3	**Alternative Transportation**, Low-Emitting & Fuel Efficient Vehicles	1
		1	Credit 4.4	**Alternative Transportation**, Parking Capacity	1
		1	Credit 5.1	**Site Development**, Protect or Restore Habitat	1
		1	Credit 5.2	**Site Development**, Maximize Open Space	1
		1	Credit 6.1	**Stormwater Design**, Quantity Control	1
		1	Credit 6.2	**Stormwater Design**, Quality Control	1
		1	Credit 7.1	**Heat Island Effect**, Non-Roof	1
		1	Credit 7.2	**Heat Island Effect**, Roof	1
1			Credit 8	**Light Pollution Reduction**	1
1			Credit 9	**Tenant Design & Construction Guidelines**	1

Yes	?	No			
		5	**Water Efficiency**		5 Points
		1	Credit 1.1	**Water Efficient Landscaping**, Reduce by 50%	1
		1	Credit 1.2	**Water Efficient Landscaping**, No Potable Use or No Irrigation	1
		1	Credit 2	**Innovative Wastewater Technologies**	1
		1	Credit 3.1	**Water Use Reduction**, 20% Reduction	1
		1	Credit 3.2	**Water Use Reduction**, 30% Reduction	1

LEED for Core and Shell v2.0
Registered Project Checklist

Yes	?	No		
9		1	Energy & Atmosphere	14 Points

Yes		Prereq 1	**Fundamental Commissioning of the Building Energy Systems**	Required
Yes		Prereq 2	**Minimum Energy Performance**	Required
Yes		Prereq 3	**Fundamental Refrigerant Management**	Required

***Note for EAc1:** All LEED for Core and Shell projects registered after June 26, 2007 are required to achieve at least two (2) points.

5			Credit 1	**Optimize Energy Performance**	1 to 8
			Credit 1.1	10.5% New Buildings / 3.5% Existing Building Renovations	1
			Credit 1.2	14% New Buildings / 7% Existing Building Renovations	2
			Credit 1.3	17.5% New Buildings / 10.5% Existing Building Renovations	3
			Credit 1.4	21% New Buildings / 14% Existing Building Renovations	4
			--> Credit 1.5	24.5% New Buildings / 17.5% Existing Building Renovations	5
			Credit 1.6	28% New Buildings / 21% Existing Building Renovations	6
			Credit 1.7	31.5% New Buildings / 24.5% Existing Building Renovations	7
			Credit 1.8	35% New Buildings / 28% Existing Building Renovations	8
		1	Credit 2	**On-Site Renewable Energy**	1
1			Credit 3	**Enhanced Commissioning**	1
		1	Credit 4	**Enhanced Refrigerant Management**	1
1			Credit 5.1	**Measurement & Verification -** Base Building	1
1			Credit 5.2	**Measurement & Verification -** Tenant Sub-metering	1
1			Credit 6	**Green Power**	1

LEED for Core and Shell v2.0
Registered Project Checklist

Yes	?	No		
6		5	Materials & Resources	11 Points

Yes					
1			Prereq 1	**Storage & Collection of Recyclables**	Required
		1	Credit 1.1	**Building Reuse,** Maintain 25% of Existing Walls, Floors & Roof	1
		1	Credit 1.2	**Building Reuse,** Maintain 50% of Existing Walls, Floors & Roof	1
1			Credit 1.3	**Building Reuse,** Maintain 75% of Interior Non-Structural Elements	1
		1	Credit 2.1	**Construction Waste Management**, Divert 50% from Disposal	1
1			Credit 2.2	**Construction Waste Management**, Divert 75% from Disposal	1
1			Credit 3	**Materials Reuse**, 1%	1
1			Credit 4.1	**Recycled Content**, 10% (post-consumer + 1/2 pre-consumer)	1
1			Credit 4.2	**Recycled Content**, 20% (post-consumer + 1/2 pre-consumer)	1
1			Credit 5.1	**Regional Materials**, 10% Extracted, Processed & Manufactured	1
		1	Credit 5.2	**Regional Materials**, 20% Extracted, Processed & Manufactured	1
		1	Credit 6	**Certified Wood**	1

Yes	?	No		
6	0	3	Indoor Environmental Quality	11 Points

Yes					
Yes			Prereq 1	**Minimum IAQ Performance**	Required
Yes			Prereq 2	**Environmental Tobacco Smoke (ETS) Control**	Required
1			Credit 1	**Outdoor Air Delivery Monitoring**	1
		1	Credit 2	**Increased Ventilation**	1
1			Credit 3	**Construction IAQ Management Plan,** During Construction	1
Y			Credit 4.1	**Low-Emitting Materials**, Adhesives & Sealants	1
Y			Credit 4.2	**Low-Emitting Materials**, Paints & Coatings	1
		N	Credit 4.3	**Low-Emitting Materials**, Carpet Systems	1
		N	Credit 4.4	**Low-Emitting Materials**, Composite Wood & Agrifiber Products	1
1			Credit 5	**Indoor Chemical & Pollutant Source Control**	1
1			Credit 6	**Controllability of Systems**, Thermal Comfort	1
1			Credit 7	**Thermal Comfort,** Design	1
		1	Credit 8.1	**Daylight & Views,** Daylight 75% of Spaces	1
		1	Credit 8.2	**Daylight & Views,** Views for 90% of Spaces	1

***Note for EQc4.1-4.4:** Project teams will receive 1 point for achievement of 2 credits, 2 points for achievement of 3 credits, or 3 points for achievement of 4 credits among EQc4.1, EQc4.2, EQc4.3 and EQc4.4.

LEED for Core and Shell v2.0
Registered Project Checklist

Yes	?	No			
1		4	**Innovation & Design Process**		5 Points
		1	Credit 1.1	**Innovation in Design:** Provide Specific Title	1
		1	Credit 1.2	**Innovation in Design:** Provide Specific Title	1
		1	Credit 1.3	**Innovation in Design:** Provide Specific Title	1
		1	Credit 1.4	**Innovation in Design:** Provide Specific Title	1
1			Credit 2	**LEED® Accredited Professional**	1

LEED for Core and Shell v2.0
Registered Project Checklist

Solution
10,000 Cost, Achieve Silver

Project Name: Fox Office Building #103

Project Address: 10201 W. Pico Blvd, Los Angeles, CA 90035

Yes	?	No		
29	0	26	**Project Totals** (Pre-Certification Estimates)	69 Points
SILVER			**Certified**: 23-27 points **Silver**: 28-33 points **Gold**: 34-44 points **Platinum**: 45-61 points	

Yes	?	No			
6		9	**Sustainable Sites**		15 Points
Yes			Prereq 1	**Construction Activity Pollution Prevention**	Required
1			Credit 1	**Site Selection**	1
		1	Credit 2	**Development Density & Community Connectivity**	1
		1	Credit 3	**Brownfield Redevelopment**	1
1			Credit 4.1	**Alternative Transportation**, Public Transportation	1
1			Credit 4.2	**Alternative Transportation**, Bicycle Storage & Changing Rooms	1
1			Credit 4.3	**Alternative Transportation**, Low-Emitting & Fuel Efficient Vehicles	1
		1	Credit 4.4	**Alternative Transportation**, Parking Capacity	1
		1	Credit 5.1	**Site Development**, Protect or Restore Habitat	1
		1	Credit 5.2	**Site Development**, Maximize Open Space	1
		1	Credit 6.1	**Stormwater Design**, Quantity Control	1
		1	Credit 6.2	**Stormwater Design**, Quality Control	1
		1	Credit 7.1	**Heat Island Effect**, Non-Roof	1
		1	Credit 7.2	**Heat Island Effect**, Roof	1
1			Credit 8	**Light Pollution Reduction**	1
1			Credit 9	**Tenant Design & Construction Guidelines**	1

Yes	?	No			
1		4	**Water Efficiency**		5 Points
		1	Credit 1.1	**Water Efficient Landscaping**, Reduce by 50%	1
		1	Credit 1.2	**Water Efficient Landscaping**, No Potable Use or No Irrigation	1
		1	Credit 2	**Innovative Wastewater Technologies**	1
1			Credit 3.1	**Water Use Reduction**, 20% Reduction	1
		1	Credit 3.2	**Water Use Reduction**, 30% Reduction	1

LEED for Core and Shell v2.0
Registered Project Checklist

Yes	?	No		
9		1	Energy & Atmosphere	14 Points

Yes		Prereq 1	**Fundamental Commissioning of the Building Energy Systems**	Required
Yes		Prereq 2	**Minimum Energy Performance**	Required
Yes		Prereq 3	**Fundamental Refrigerant Management**	Required

***Note for EAc1:** All LEED for Core and Shell projects registered after June 26, 2007 are required to achieve at least two (2) points.

5			Credit 1	**Optimize Energy Performance**	1 to 8
			Credit 1.1	10.5% New Buildings / 3.5% Existing Building Renovations	1
			Credit 1.2	14% New Buildings / 7% Existing Building Renovations	2
			Credit 1.3	17.5% New Buildings / 10.5% Existing Building Renovations	3
			Credit 1.4	21% New Buildings / 14% Existing Building Renovations	4
			--> Credit 1.5	24.5% New Buildings / 17.5% Existing Building Renovations	5
			Credit 1.6	28% New Buildings / 21% Existing Building Renovations	6
			Credit 1.7	31.5% New Buildings / 24.5% Existing Building Renovations	7
			Credit 1.8	35% New Buildings / 28% Existing Building Renovations	8
		1	Credit 2	**On-Site Renewable Energy**	1
1			Credit 3	**Enhanced Commissioning**	1
		1	Credit 4	**Enhanced Refrigerant Management**	1
1			Credit 5.1	**Measurement & Verification -** Base Building	1
1			Credit 5.2	**Measurement & Verification -** Tenant Sub-metering	1
1			Credit 6	**Green Power**	1

LEED for Core and Shell v2.0
Registered Project Checklist

Yes	?	No			
6		5	Materials & Resources		11 Points

Yes					
1			Prereq 1	**Storage & Collection of Recyclables**	Required
		1	Credit 1.1	**Building Reuse,** Maintain 25% of Existing Walls, Floors & Roof	1
		1	Credit 1.2	**Building Reuse,** Maintain 50% of Existing Walls, Floors & Roof	1
		1	Credit 1.3	**Building Reuse,** Maintain 75% of Interior Non-Structural Elements	1
1			Credit 2.1	**Construction Waste Management**, Divert 50% from Disposal	1
		1	Credit 2.2	**Construction Waste Management**, Divert 75% from Disposal	1
1			Credit 3	**Materials Reuse**, 1%	1
1			Credit 4.1	**Recycled Content**, 10% (post-consumer + 1/2 pre-consumer)	1
1			Credit 4.2	**Recycled Content**, 20% (post-consumer + 1/2 pre-consumer)	1
1			Credit 5.1	**Regional Materials**, 10% Extracted, Processed & Manufactured	1
		1	Credit 5.2	**Regional Materials**, 20% Extracted, Processed & Manufactured	1
		1	Credit 6	**Certified Wood**	1

Yes	?	No			
6	0	3	Indoor Environmental Quality		11 Points

Yes					
Yes			Prereq 1	**Minimum IAQ Performance**	Required
Yes			Prereq 2	**Environmental Tobacco Smoke (ETS) Control**	Required
1			Credit 1	**Outdoor Air Delivery Monitoring**	1
		1	Credit 2	**Increased Ventilation**	1
1			Credit 3	**Construction IAQ Management Plan,** During Construction	1
Y			Credit 4.1	**Low-Emitting Materials**, Adhesives & Sealants	1
Y			Credit 4.2	**Low-Emitting Materials**, Paints & Coatings	1
		N	Credit 4.3	**Low-Emitting Materials**, Carpet Systems	1
		N	Credit 4.4	**Low-Emitting Materials**, Composite Wood & Agrifiber Products	1
1			Credit 5	**Indoor Chemical & Pollutant Source Control**	1
1			Credit 6	**Controllability of Systems**, Thermal Comfort	1
1			Credit 7	**Thermal Comfort,** Design	1
		1	Credit 8.1	**Daylight & Views,** Daylight 75% of Spaces	1
		1	Credit 8.2	**Daylight & Views,** Views for 90% of Spaces	1

***Note for EQc4.1-4.4:** Project teams will receive 1 point for achievement of 2 credits, 2 points for achievement of 3 credits, or 3 points for achievement of 4 credits among EQc4.1, EQc4.2, EQc4.3 and EQc4.4.

LEED for Core and Shell v2.0
Registered Project Checklist

Yes	?	No			
1		4	Innovation & Design Process		5 Points
		1	Credit 1.1	**Innovation in Design:** Provide Specific Title	1
		1	Credit 1.2	**Innovation in Design:** Provide Specific Title	1
		1	Credit 1.3	**Innovation in Design:** Provide Specific Title	1
		1	Credit 1.4	**Innovation in Design:** Provide Specific Title	1
1			Credit 2	**LEED® Accredited Professional**	1

LEED for Core and Shell v2.0
Registered Project Checklist

Solution
440,000 Cost, Achieve Gold

Project Name: Fox Office Building #103

Project Address: 10201 W. Pico Bld, Los Angeles, CA 90035

Yes	?	No		
34	0	21	**Project Totals** (Pre-Certification Estimates)	69 Points
GOLD			**Certified**: 23-27 points **Silver**: 28-33 points **Gold**: 34-44 points **Platinum**: 45-61 points	

Yes	?	No			
10		5	**Sustainable Sites**		15 Points
Yes			Prereq 1	**Construction Activity Pollution Prevention**	Required
1			Credit 1	**Site Selection**	1
		1	Credit 2	**Development Density & Community Connectivity**	1
		1	Credit 3	**Brownfield Redevelopment**	1
1			Credit 4.1	**Alternative Transportation**, Public Transportation	1
1			Credit 4.2	**Alternative Transportation**, Bicycle Storage & Changing Rooms	1
1			Credit 4.3	**Alternative Transportation**, Low-Emitting & Fuel Efficient Vehicles	1
		1	Credit 4.4	**Alternative Transportation**, Parking Capacity	1
		1	Credit 5.1	**Site Development**, Protect or Restore Habitat	1
		1	Credit 5.2	**Site Development**, Maximize Open Space	1
1			Credit 6.1	**Stormwater Design**, Quantity Control	1
1			Credit 6.2	**Stormwater Design**, Quality Control	1
1			Credit 7.1	**Heat Island Effect**, Non-Roof	1
1			Credit 7.2	**Heat Island Effect**, Roof	1
1			Credit 8	**Light Pollution Reduction**	1
1			Credit 9	**Tenant Design & Construction Guidelines**	1

Yes	?	No			
1		4	**Water Efficiency**		5 Points
		1	Credit 1.1	**Water Efficient Landscaping**, Reduce by 50%	1
		1	Credit 1.2	**Water Efficient Landscaping**, No Potable Use or No Irrigation	1
		1	Credit 2	**Innovative Wastewater Technologies**	1
1			Credit 3.1	**Water Use Reduction**, 20% Reduction	1
		1	Credit 3.2	**Water Use Reduction**, 30% Reduction	1

LEED for Core and Shell v2.0
Registered Project Checklist

Yes	?	No		
9		1	Energy & Atmosphere	14 Points

Yes		Prereq 1	**Fundamental Commissioning of the Building Energy Systems**	Required
Yes		Prereq 2	**Minimum Energy Performance**	Required
Yes		Prereq 3	**Fundamental Refrigerant Management**	Required

***Note for EAc1:** All LEED for Core and Shell projects registered after June 26, 2007 are required to achieve at least two (2) points.

5			Credit 1	**Optimize Energy Performance**	1 to 8
			Credit 1.1	10.5% New Buildings / 3.5% Existing Building Renovations	1
			Credit 1.2	14% New Buildings / 7% Existing Building Renovations	2
			Credit 1.3	17.5% New Buildings / 10.5% Existing Building Renovations	3
			Credit 1.4	21% New Buildings / 14% Existing Building Renovations	4
		-->	Credit 1.5	24.5% New Buildings / 17.5% Existing Building Renovations	5
			Credit 1.6	28% New Buildings / 21% Existing Building Renovations	6
			Credit 1.7	31.5% New Buildings / 24.5% Existing Building Renovations	7
			Credit 1.8	35% New Buildings / 28% Existing Building Renovations	8
		1	Credit 2	**On-Site Renewable Energy**	1
1			Credit 3	**Enhanced Commissioning**	1
		1	Credit 4	**Enhanced Refrigerant Management**	1
1			Credit 5.1	**Measurement & Verification -** Base Building	1
1			Credit 5.2	**Measurement & Verification -** Tenant Sub-metering	1
1			Credit 6	**Green Power**	1

LEED for Core and Shell v2.0
Registered Project Checklist

Yes	?	No		
7		4	Materials & Resources	11 Points

Yes					
1			Prereq 1	**Storage & Collection of Recyclables**	Required
		1	Credit 1.1	**Building Reuse,** Maintain 25% of Existing Walls, Floors & Roof	1
		1	Credit 1.2	**Building Reuse,** Maintain 50% of Existing Walls, Floors & Roof	1
1			Credit 1.3	**Building Reuse,** Maintain 75% of Interior Non-Structural Elements	1
1			Credit 2.1	**Construction Waste Management**, Divert 50% from Disposal	1
1			Credit 2.2	**Construction Waste Management**, Divert 75% from Disposal	1
1			Credit 3	**Materials Reuse**, 1%	1
1			Credit 4.1	**Recycled Content**, 10% (post-consumer + 1/2 pre-consumer)	1
1			Credit 4.2	**Recycled Content**, 20% (post-consumer + 1/2 pre-consumer)	1
1			Credit 5.1	**Regional Materials**, 10% Extracted, Processed & Manufactured	1
		1	Credit 5.2	**Regional Materials**, 20% Extracted, Processed & Manufactured	1
		1	Credit 6	**Certified Wood**	1

Yes	?	No		
6	0	3	Indoor Environmental Quality	11 Points

Yes					
Yes			Prereq 1	**Minimum IAQ Performance**	Required
Yes			Prereq 2	**Environmental Tobacco Smoke (ETS) Control**	Required
1			Credit 1	**Outdoor Air Delivery Monitoring**	1
		1	Credit 2	**Increased Ventilation**	1
1			Credit 3	**Construction IAQ Management Plan,** During Construction	1
Y			Credit 4.1	**Low-Emitting Materials**, Adhesives & Sealants	1
Y			Credit 4.2	**Low-Emitting Materials**, Paints & Coatings	1
		N	Credit 4.3	**Low-Emitting Materials**, Carpet Systems	1
		N	Credit 4.4	**Low-Emitting Materials**, Composite Wood & Agrifiber Products	1
1			Credit 5	**Indoor Chemical & Pollutant Source Control**	1
1			Credit 6	**Controllability of Systems**, Thermal Comfort	1
1			Credit 7	**Thermal Comfort,** Design	1
		1	Credit 8.1	**Daylight & Views,** Daylight 75% of Spaces	1
		1	Credit 8.2	**Daylight & Views,** Views for 90% of Spaces	1

***Note for EQc4.1-4.4:** Project teams will receive 1 point for achievement of 2 credits, 2 points for achievement of 3 credits, or 3 points for achievement of 4 credits among EQc4.1, EQc4.2, EQc4.3 and EQc4.4.

LEED for Core and Shell v2.0
Registered Project Checklist

Yes	?	No			
1		4	Innovation & Design Process		5 Points
		1	Credit 1.1	**Innovation in Design:** Provide Specific Title	1
		1	Credit 1.2	**Innovation in Design:** Provide Specific Title	1
		1	Credit 1.3	**Innovation in Design:** Provide Specific Title	1
		1	Credit 1.4	**Innovation in Design:** Provide Specific Title	1
1			Credit 2	**LEED® Accredited Professional**	1

TAB 10

INTENTIONAL BLANK PAGE

10.) Bonus – "Red Light Procedure"

A very unique aspect of this project is that it is being built on a working TV & Movie production lot. While most TV and Movie filming is done inside of sound controlled buildings, the Fox lot has an outdoor filming area, which replicates a New York City street, hence the name NY Street. Film for TV and Movies is extremely sensitive to sound and vibration and must be carefully controlled, especially when filming occurs in an outdoor environment. An actual tripod with a flashing red strobe light is used to signal when the cameras are rolling, hence the name "Red Light" and that all noise and vibration which may impact the filming must be ceased immediately.

Some other interesting information is that a normal 8 hour filming day, which begins at 10:00 AM, breaks for lunch from 2:00 PM to 3:00 PM and is finished by 7:00 PM. During the 8 hour day, much of the time, 90%, is spent setting up a scene and rehearsing. Only about 10% of the time, are the cameras and sound equipment actually recording. Although the overall 8 hour +1 hour for lunch day is known, the actual time when the filming and sound recording occurs, happens when everything is ready and rehearsal is done, so it is not possible to know in advance when the actual "Red Light" will be turned on.

For the purpose of this problem, please assume that shooting on NY Street will occur a maximum of 2 days, Monday through Friday, per week, the TV & Movie Industry is on hiatus all of the Month of December and from June through August each year.

For this problem please develop a one page procedure of how your project team will successfully manage "Red Lights" Include contact information, how communications will flow and how you will track "Red Light" impacts against the Contract Allowance of 10 days. Describe in a narrative of steps your team will take to minimize the cost & schedule impacts from "Red Lights" and ensure the allowance is not exceeded during the course of the project. Provide an analysis, based upon your team's procedure and efforts to minimize the cost & schedule impacts, of the anticipated cost and schedule impact to the project due to "Red Lights".

Deliverable:

1. *"Red Light" Management Plan, Narrative and Projected Cost & Schedule Impact to the project*

Potential Solution:

1. *Analysis of actual overlap between construction work hours 7am to 3:30pm and Red Light Filming of 10am to 7:00pm with lunch from 2-3pm*, so the overlap is only a maximum of 4.5 hours per day, 2 days per week, 8 months per year. So total exposure is 18 month schedule (8/09 to 2/11) – 5 months Hiatus = 13 months x 4.3 wks/mo x 2 days/wk x 4.5 hrs/day=503 hours of red light exposure vs. the contract allowance of 10 days or 80 hours.
2. *Analysis of potential actual filming (red light) exposure and the 10 day of 80 hour contract allowance.* Actually filming is only 10% of the 503 hour exposure, 50 Hours, this is well below the 80 hour allowance in the Contract.
3. *Narrative on how do you manage the total overlap between construction and filming of 503 hours, vs. the actually filming exposure of 50 hours.* This is subjective, but our solution was to have a PCL representative present during the 503 hours of overlap exposure between construction and filming. This PCL Rep would be in radio contact with both the filming crew and the PCL job site. Everyone on the jobsite would know that we were on Red light alert that day and were instructed to stop work when the signal came from PCL. The PCL rep would receive a heads up from the filming crew 5 minutes prior to filming start and this PCL Rep would radio the job site and in less than 5 minutes all work was stopped prior to start of filming. When filming was done, about 10 minutes later, the PCL rep would radio back to the job site and the word would be given to restart work. So during each filming segment during the overlapped day, the job would shut down for 15 to 20 minutes. The 4.5 hour overlap = 270 minutes x 10% filming = 27 minutes approx 3-10 minute filming sessions during each over lap day. So on each day of filming the job was shut down for about 15 minutes, 3 times. So actual shut down during the course of the job was 45 minutes per filming day x 112 filming days over the course of the job = 5040 minutes = 84 hours, just slightly over our 80 hour contractual allowance.
4. *Cost/Schedule Analysis;* PCL Rep 503 hrs x $60/hr = $30,180. PCL coordination/monitoring from the job site 84 hours x $85/hr = 7,140. Total cost is about 37K (40K), no schedule impact since the allowance of 80 hours which was included in the contract costs & schedule, was only exceeded by 4 hours.

INTENTIONAL BLANK PAGE