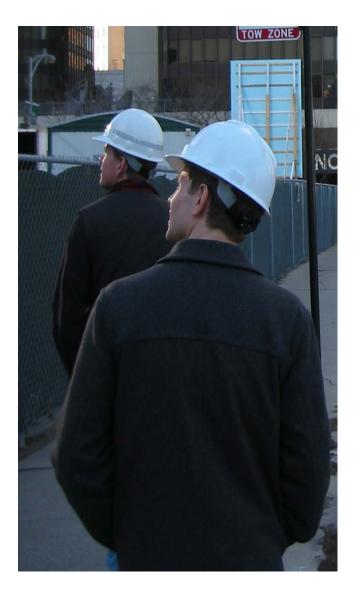


<u>Meeting Challenges & Overcoming Obstacles During</u> <u>CCA – Approaches Toward Best Practice</u>



Description

An approach toward ideas for advancing the effectiveness and value of architectural service provided in the construction contract administration phase. Identifying some of the challenges encountered during this phase, establishing methodology in anticipation, to avoid them and preparation made to surmount them. **Learning Objectives**

After participating in this webinar attendees will:

- Understanding the necessity, objectives and value of a clearly defined scope of CCA services.
- Be able to evaluate and develop approaches toward preparedness and beneficial staff training.
- Discuss the benefits of CCA staff involvement in the design and documentation process and potential benefits toward proper interpretation of the contract documents.
- Develop an understanding of the approaches toward controlling the CCA procedures and process.

Identifying Potential Obstacles That May Present Challenges

- 5. Controlling the process within the defined scope of services.
- 6. Ensuring that the contractor has correctly interpreted the documents.
- 7. Electronic tools and instruments of service.
- 8. Value Engineering vs Cost Reduction.

- 1. Definition of the scope of CCA services.
- 2. Staffing, who does the work, provides the CCA services as the Architect.
- 3. Qualifications, how does one develop the knowledge and experience necessary to perform this service.
- 4. Understanding the scope of the project and the content of the construction documents to correctly interpret the documents and perform the services.

Scope of Service

Team must understand the scope, fees, and requirements of the contract

Contractual Agreements

a) AIA B101

Standard Form of Agreement Between the Owner and Architect

b) Agreement Between the Owner and Contractor

Contract Documents

a) AIA A201

General Conditions of the Contract for Construction

Supplementary Conditions

- b) Project Manual
 - a) Division 01 of the Project Specifications



Scope of Service

Outline For Memo of Construction Administration Procedures

I. Responsibilities of Key Personnel

- A. Owner
- B. Contractor
- C. SCB
- D. Consultants
- E. Others

II. Procedures for Site Visits, Meetings and Reports

- A. O/A/C Meetings
- B. Pre-installation Conferences
- C. Project Visits and Reports

III. Project Schedules

- A. Initial Schedule and Review
- B. Updated Schedules

IV. Payments

- A. Schedule of Values
- B. Pencil Draft
- C. Final Draft

V. Changes

- A. Owner Initiated
- B. Contractor Initiated
- C. Schedule of Change Related Activities

VI. Submittals

VII. General Conditions

VIII.Project Directory Updated to Include Contractor's Personnel

- IX. Schedule of O/A/C Meetings, Payment Pencil Draft Submittal and Review Dates, Payment Final Draft Submittal Dates
- X. Samples of Various Forms to be Used

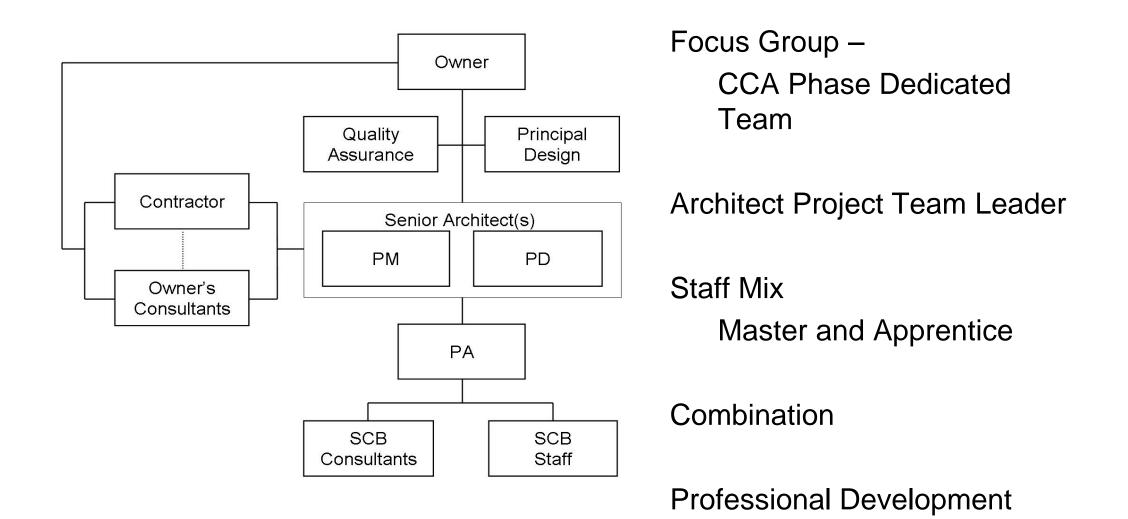
Internal Team Preparation

- a) Review the Contractual Agreements
- b) Review and Establish Procedures for CCA

Scope Definition

- a) Include a Responsibility Matrix
- b) Description of Add Services
- c) Value Engineering: Do it early, communicate consequences, vet ideas inhouse, and establish a process to respond

Staffing – Who Does The Work



Staffing – Alternative Approaches

Focus Group – CCA Phase Dedicated Team

Advantages

Experience - Specialist

Focused

Flexibility

Disadvantages

New face of the project design team

Unfamiliar with project and project history

Architect Project Team Leader

Advantages

Project design team continuity Benefits by familiarity with the project history

Disadvantages Duration of engagement

Staffing – Alternative Approaches

Combination

Advantages

Project design team continuity Advantages of the M/A approach Potential for lessons learned feedback

Disadvantages

New face of the project design team

Unfamiliar with project and project history

Staff Mix – Master and Apprentice Advantages Opportunity for Staff Development Human Resource Flexibility

Disadvantages

Potential Disadvantages of the Focused Group Approach





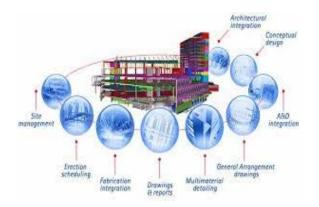
Mentoring & Training

Seminars: Targeted training, systematic ondemand training,

Master and Apprentice - one-on-one mentoring

Balance Specialized Knowledge - BIM education for CCA experts









Establishing and Developing a Knowledge Base

CCA Guidelines

CCA Staff Periodic Group Meeting and Roundtable

Gathering Lessons Learned, Measuring/Metrics, Disperse Feedback





Construction Contract Administration Education

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CCA Guidelines

Manual : Provides a general overview of the CCA activities, procedures, requirements and forms

A structured process and standardization of procedures.

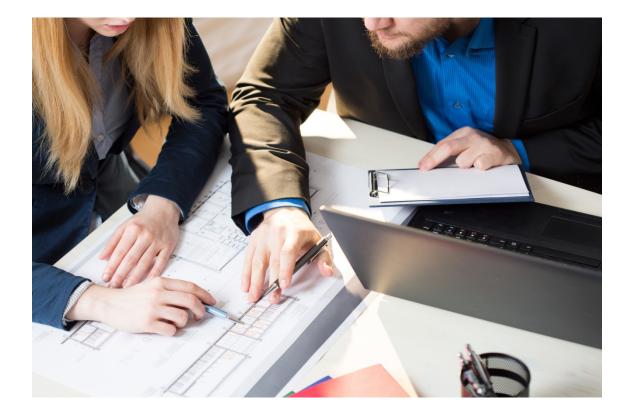


Scope of Project

CAA Team Preparation

Preconstruction Involvement during the Design Phases

- a) Involved during establishment of project goals
- b) Fosters a knowledge of the project development history
- c) Influential when considering and proposing project systems and materials
- d) Working relationship with the consultants and an understanding of the scope and construction documents of the other design disciplines
- e) Familiarity and relationship established with the contractors
- f) Quality assurance during construction document development



Scope of Project

CAA Team Preparation

Thorough understanding of the contract documents at commencement of the CCA phase

- a) Hit the ground running
- b) Awareness of any special permit qualifications or code compliance interpretations
- c) Cognizant of the intended level of detail and responsibility for content – BIM LOD
- d) Ability to correctly interpret the documents fairly and maintain the design intentions
- e) Ability to evaluate the inevitable need to make a change

Scope of Project

Educating the Contractor

January 15, 2014

Preconstruction Services

- a) Team approach to considering and proposing projects systems and materials
- b) Accurate and comprehensive understanding of the project scope
- c) Accurate and comprehensive preliminary pricing

Bid Phase Scope Reviews

- a) Review and affirmation of the correct and complete scope for each portion of the project
- b) Appropriate opportunities for value engineering –Team approach

Construction Contracting Corp.

Project:

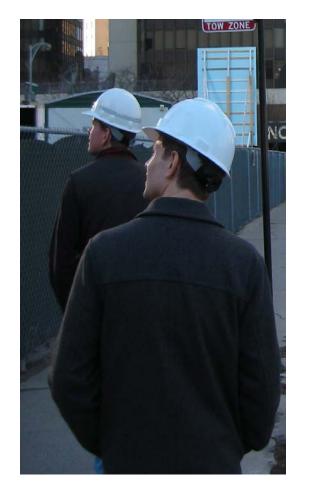
Location:

		PARAMETRIC BU	DGET TARGETS	
	Average Historical Percentage Distribution Less Contingency	Target Percentage Distribution	Cost	Cost per Gross Building Square Foot (262,000 SF)
SCHEME XX - XXXX CONCEPT				
General Conditions, Overhead and Fee	8.8%	8.8%	\$ 8,780,000	\$ 33.51
Site Improvements	2.6%	2.3%	\$ 2,347,380	\$ 8.96
New Building Composition Foundation and Structure Roofing Exterior Enclosure Finishes Equipment Conveying Systems Fire Suppression Plumbing HVAC Temperature Control Electrical Building Utilities	$15.5\% \\ 0.8\% \\ 9.7\% \\ 16.1\% \\ 3.0\% \\ 1.3\% \\ 1.0\% \\ 4.6\% \\ 3.5\% \\ 3.5\% \\ 11.5\% \\ 1.0\% \\ 2.0\% \\ 0.0\%$	$\begin{array}{c} 13.0\% \\ 0.9\% \\ 13.5\% \\ 14.1\% \\ 5.7\% \\ 0.9\% \\ 0.9\% \\ 4.3\% \\ 17.2\% \\ 4.7\% \\ 11.2\% \\ 0.5\% \end{array}$	\$ 13,008,397 \$ 870,487 \$ 13,497,435 \$ 14,084,280 \$ 5,672,835 \$ 870,487 \$ 870,487 \$ 4,342,653 \$ 17,214,120 \$ 4,694,760 \$ 11,247,862 \$ 498,818 \$ 2000,000	\$ 49.65 \$ 3.32 \$ 51.52 \$ 53.76 \$ 21.65 \$ 3.32 \$ 3.32 \$ 3.32 \$ 1.52 \$ 53.76 \$ 21.65 \$ 3.32 \$ 3.32 \$ 1.658 \$ 65.70 \$ 17.92 \$ 42.93 \$ 1.90
GMPContingency	2.0%	2.0%	\$ 2,000,000	\$ 7.63
Total	100.0%	100.0%	\$ 100,000,000	\$ 381.68

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Preconstruction Initial OAC Meeting - Have a Script

Proactive approach and communication

Pre-installation conferences -Mock-ups

Field observation visits during construction

Potential pitfalls to avoid during performance of CCA duties

Sample Agenda Items To Be Discussed At O/A/C Pre-Construction Meeting

I. Schedule O/A/C Site Meetings

- A. Construction Progress Meetings
- B. Site Visits
- C. Monthly Pay Request Meetings

II. Submittal Procedures Per the Project Manual

- A. Contractor's Submittal Schedule
- B. CSI 2004 Master Format Numbering for Identification
- C. Contractor's Review and Approval of Submittals
- D. Number, Size, and Types of Copies
- E. Distribution to Primary Reviewer, Architect and Owner
- F. Turnaround Time of Standard Submittals
- G. Turnaround Time for Large or Complex of Submittals
- H. Submittals put on Hold (to Wait for Coordination of other Submittals)

III. RFI Procedures

- A. Submission
- B. Inclusion of Sub-Contractors Recommendation
- C. Distribution
- D. Responses (Time and Format)

IV. Construction Schedules

- A. Format
- B. Distribution
- C. Updates and Revisions

V. Monthly Pay Requests

- A. Schedule of Values
- B. Certificates of Insurance
- C. Pencil Draw
- D. Stored Materials
- E. Owner's Required Procedures
- F. Final Draw

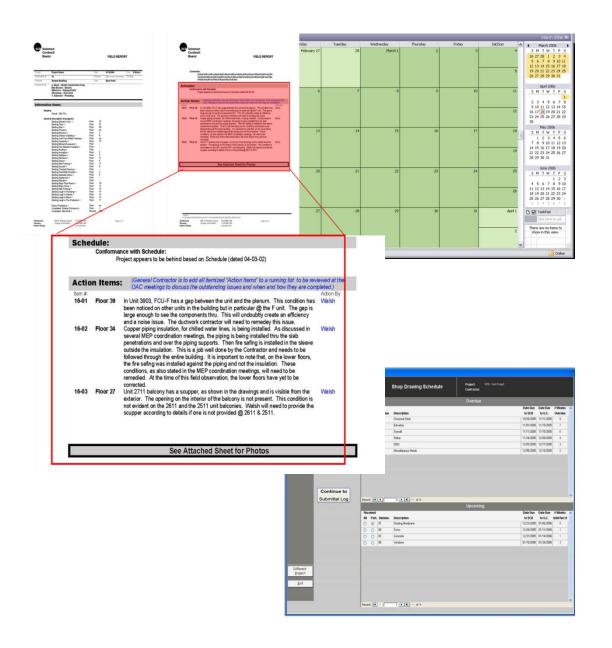
VI. Project Completion and Closeout Procedures

- A. Substantial Completion
- B. Final Completion
- C. Project Closeout

Controlling the Procedures and Process

Preconstruction Initial OAC Meeting - Have a Script

- Be proactive Opportunity to set expectations and ensure that the process proceeds as intended by proposal for CCA Phase services.
- Develop an agenda of items to be discussed.
- Agreement with the protocols and procedures
- Schedules
- Submittal procedures
- RFI Procedures
- Monthly Application for Payment



Proactive approach and communication

- Pick up the telephone. Create opportunities for communication.
- Don't wait for a problem or an issue to develop.
- Find out what is going on, what the contractors are looking ahead to.
- Team approach, balance priorities.
- Add value to the Client for the CCA services provided.
- Listen to the client, represent their interests.
- Be an advocate for collaboration



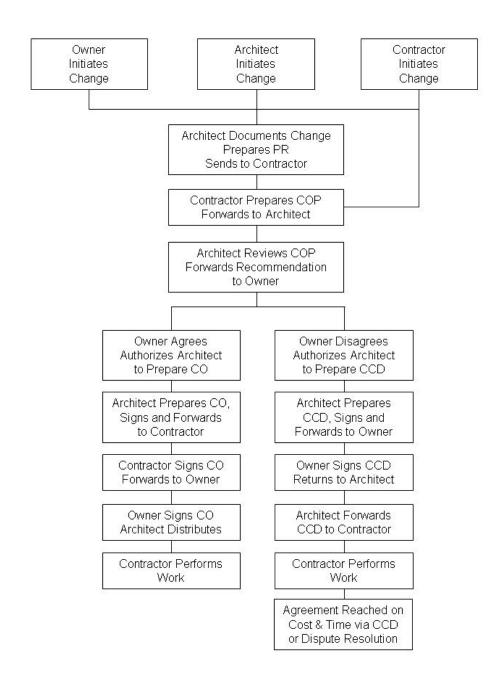


Pre-installation conferences -Mock-ups

- Opportunity to work out and avoid potential problems.
- Make sure they occur as they are required by the project specifications.
- The purpose of these conferences is to ensure that the Owner, Architect, Contractor and subcontractor understands the project requirements, the job conditions and the level of service expected.
- The general contractor conducts the meeting. Each participant is to render its expert advice and a consensus is reached to all aspects of the installation.

Field observation visits during construction

- Review the contract, understand these requirements for a given projects.
- Each of the formal site visits should have a purpose and a predetermined agenda.
- Understanding what Architects are not to do during the site observation visits is equally important.
- Understand your role in the different construction phase meetings that may occur coincident with the scheduled site visits.



Potential pitfalls to avoid during performance of CCA duties

- Not putting the clients interests first
- Inability to identify requests for service outside of or beyond the contractual agreements
- Scope Creep
- Learn when and how to say no.



The Value of Construction Contract Administration Services

Added value should define the broader vision for providing Construction Contract Administration services

- Sustaining and growing our client relationship through the construction phase
- Endeavor to be the trusted advisor
- Learn



