

Main Ingredient



What is the most important ingredient needed for a successful project...?





Know your people

Commander
 Hadfeild recognized
 the need to
 understand the
 abilities of his
 people so he spent
 5 years with them.



Collaboration

Collaboration is that hard to define, intangible ingredient that should be added to the project batter to ensure a delicious dessert is served at the end.



Identify

> The challenge is identifying that ingredient and determine how it will enhance the taste of the other ingredients.



Quality of the ingredients

Investigating the origin of the ingredients is relatively straight forward, in this case check the recipe or credentials and experience of the team.



Listening

- During an interview, listening to the natter of the team making a presentation does not a good cake make.
- Change the game and make the interview a problem solving session.



Team Dynamics

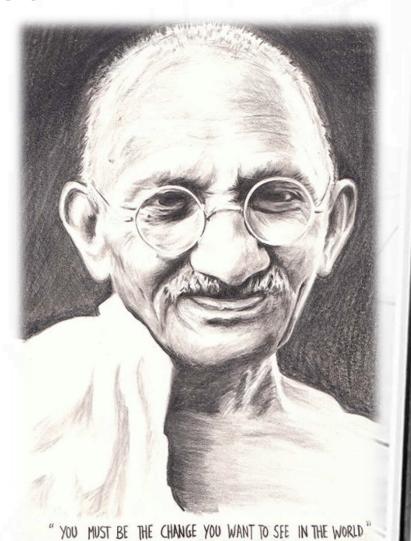
Investigate the possibility that the Team Dynamics you seek are achievable

- Owner, Consultants, Contractors work through a 4 hour problem solving session that deal with project challenges.
- > This will provide your best indicator on how the Team will work together on the project.



Core team attributes

- > Trust
- > Collaborator
- > Solution provider
- > Listener and communicator
- > Knowledgeable persuader
- Strategic planner



MAHATMA GANDHI

Search for Collaborative Behavior

- > Innovative
- > Creative
- > Supportive
- > Provide strong leadership
- Develop strategic partnerships
- > And recognize successes



Collaborative Culture Proofs

A problem solving session during procurement of the best of ingredients will reveal how the team will deliver the work.

Include key team members = Client Project Representative – Consultants – and CM/PM/

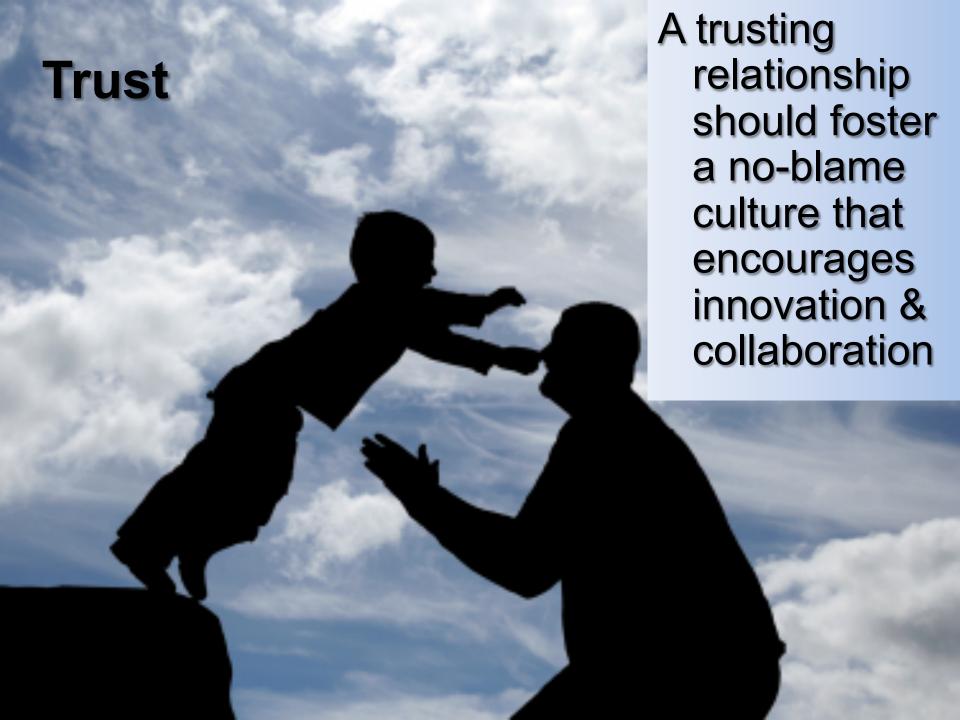
Super



Non-collaborative results

- > Lack of trust
- > Wrong perceptions
- ➤ No continuity
- > No leadership
- > Uncertainty





Time will tell...



➤ Like Commander Hadfeild, he did not spend 5 years with the executives at NASA, he spent it with his **TEAM**.

You are hiring a project delivery team, you know the executives are in the office supporting them, but they are not making the day to day decisions.

What can spoil the broth?

- Project Management firms that manage using a heavy hand and impede the collaborative process creating an environment/culture of FEAR.
- Do you want the situation where your PMO acts as the Dictator representing your interest?



The Value of a PM or PMO

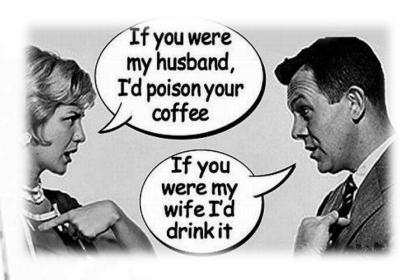


Advantages vs. Disadvantages

- Provide expertise the Client does not have
- Clients do not have to build a project specific team then let them go
- Client continues to deal with their own business operations – BMO
- Accountable for performance
- Design and regulatory manager



Advantages vs. Disadvantages



- A redundant layer of cost and fees
- Decisions made the Client does not agree with
- Can impede the transfer of critical information to the Client
- PMO becomes a pass through adding little value

Effective use of a PMO

Give the PMO the authority to:

- Decide
- Drive design to meet the budget
- Manage the performance of the design and construction team
- Show leadership not dictatorship
- Deliver results
- Provide meaningful reporting for Clients to make informed business decisions



An Institutional Owner's View of a PMO

- > Understand the Clients culture
- PMO should not be the aggressor to be seen as saving money
- Clear decision structure with no roadblock or secondary approval requirements
- > Focus on complex projects only
- > Proper integration between Client staff and PMO

An Institutional Owner's View of a PMO

- > Facilitate a trusting team environment
- > Effective reporting and commissioning structure
- > Eliminate potential conflict of interests
- Acknowledge staff turn-over will occur and plan for the transition
- PMO should not impede/down-play/change important information from design/construction team
- ➤ Allow for regularly scheduled reviews will **senior** Client, PMO, Design and Construction team

Client

- •A clients inability to translate their business plan into the required scope of work for the project.
- •Hidden agendas and a lack of openness regarding the driver behind the project.
- •Simple procrastination and an inability to acknowledge problems.

•Lack of trust that their project team have their best interest at heart.

PMO

- No authority to make decisions.
- •Feels they add value through management by dictatorship rather than collaboration.
- •Desire to use systems and process they are familiar with rather than choose the system that works best for the entire team.
- •Inexperience with the chosen project delivery model or type of project.
- Conflict of interests.



Consultant

- •A poor working relationship with the contractor.
- •An unwillingness to consider new ideas or an alternative way to build the project.
- •Less than adequate fees necessary to develop a decent level of design information.
- •A consultants contractual arrangement that fails to get answers from the Client.
- •Time allowed to fully develop a coordinated set of drawings.

Contractor

- •Lack of understanding of the project deliverables.
- Inability to accurately plan, cost and schedule the work.
- •The late realization of project challenges.
- •Re-deployment of field staff.
- •Inexperienced work force.



Desired Results

Develop a client focused relationship through positive behavior

Build trust through exceptional service delivering creative solutions



Happy Client

Creative Solution

- + High quality service
- + Value for money
- = Happy Client





Results

- The 90's resurrect collaboration
- Core objectives
- Preaching collaboration



And now, a word from the Clients

"... understands the importance of partnership."

"The team was able to add value during the early stages of the project through innovative strategies which has proven to benefit the client immensely beyond initial expectations."

"The team worked tirelessly to develop solutions that would allow the Client to maintain the design intent while driving toward a date certain and cost certain while delivery... their collaborative approach with the delivery... their collaborative approach with the Design Team contributed to the success of this project. The relationship was one where the team partnered to reach project."



"Our relationship has been, and continues to be, based on the concepts of collaboration, professionalism, and trust."





Pause to choose the method ...



Traditional Project Delivery Methods

Master Builder?

- Lump Sum or Stipulated Price
- Construction Management
- Design Build
- Cost Plus
- EPCM



Alternative Delivery Models

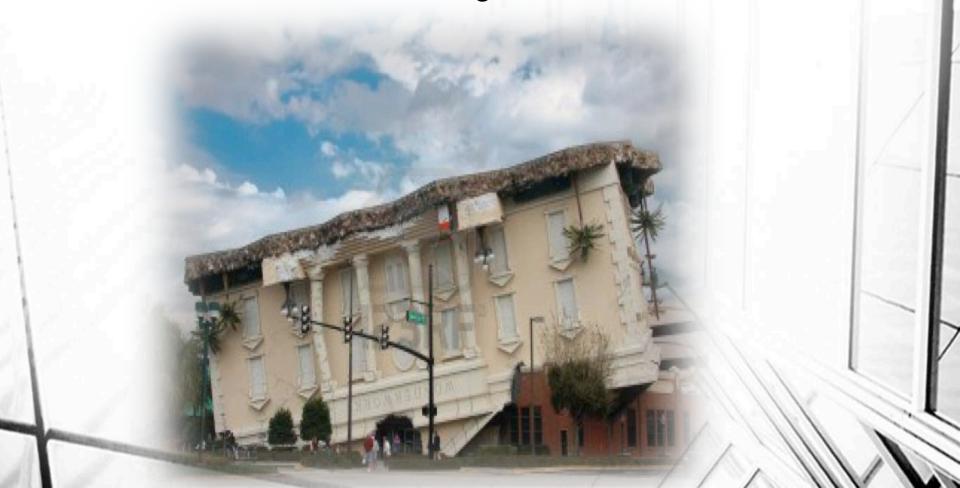
- P3
- Strategic Alliance
- Integrated Project Delivery
- Design Build
- Interface Management
- Target Value Design
- Best Value

Which delivery method to choose?

- > Consider the project goals and objectives
- How can you determining value?
- Who is best suited to assume the various project risks?
- Cost restraints
- > Time to market
- > Political/economic influences
- Quality requirements
- Operational demands

Why a fee based choice?

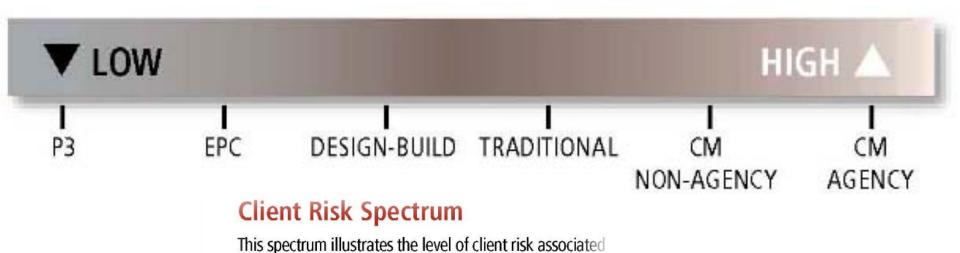
- Qualification based selection
- > Low fee does not reflect good value



Assigning Risk

- Who is accountable / responsible?
- > At what cost?
- Risk is assigned by contracts
- Risk varies depending on delivery
- > Risk Tolerance = \$\$\$





with each project delivery method. Contract terms and

conditions may alter the level of risk.

Choose CM or DB

Again it comes down to people. So logic dictates that there is value in choosing the right team of people based on qualifications.

> Try it... its NWPTA compliant



Construction Management

- > If Construction Management is your choice
- > Ensure your CM has the ability to provide:
 - Collaborative project delivery experience
 - Input at design development
 - More flexibility to process
 - Improved budget information (open book)
 - Design achieving the target price through consultation
 - Selection of key trade contractors
 - Fewer changes/extras
 - Team approach resolving project challenges

Design Build

- > If Design Build is your choice
 - Designers & contractor form a team
 - Contractor typically leads
 - Different risk profile for designers & contractors
 - Increased risk transferred to proponent
 - Can be more cost effective
 - Project delivery more efficient
 - More room for innovation

And Faster Delivery which is very important in an escalating market.







Are P3's confusing?

Public Private Partnership

Will a P3 best suit the goals and objectives of the project?

- Increase economic activity delivering projects that may otherwise have not been started
- Reduced administrative costs to incurred by public entities
- Delivers projects faster and more efficient than conventional process
- > No deferred maintenance, asset is maintained



Abbotsford Hospital... Proof?



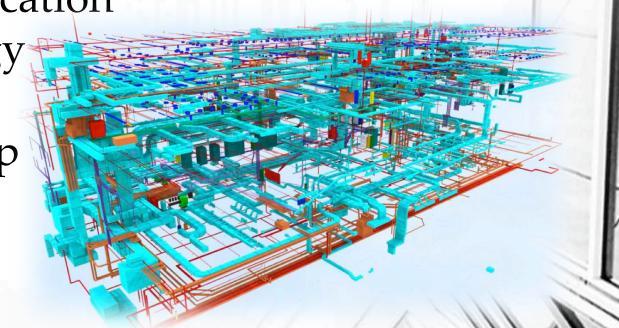
Key project successes:

- \$ 0 change orders first for Canadian public healthcare capital projects
- On time May 7, 2008

- No preconceived design
- Performance-based specifications
- Partnership attitude
- Strong political commitment
- Health Co P3 knowledge & strong project management

Integrated Project Delivery

- Collaboration and trust
- Best interest of the project
- Innovation
- Communication
- Technology
- Planning
- Leadership
- •BIM



"Best Value" Factors For Success

Fair (state/follow rules)



> Open (no prequalification / open to all with experience)

➤ Impartial and Transparent (minimize evaluator bias / provide debriefing)

> Efficient (minimize efforts)

Regardless of delivery model...

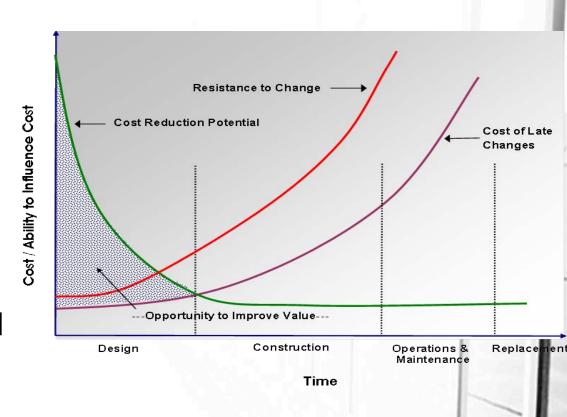
Procure this:

- > Problem solving ability
- Depth of resources
- > Technical qualifications
- > Fees
- > Partnering
- > Trade contractor relationships
- > Ability to work as a team



And buy some of this...

- Unique approach to project issues
- > Flexible delivery
- Understanding of local market conditions
- Relationships with design consultants and trade contractors





SYLTA

- > WDA CM KA HCP and CL3?
- > SA CM KT CFIA CP?
- > DYUTI BIM HOT QA/QC results?
- ➤ Will your builder DWTSTWD?
- ➤ Is VIDO a new cell phone company?



"OH, IT'S AN ACRONYM FOR IT DOESN'T STAND FOR ANYTHING."

What should your CM know?

- Containment through air movement
- Physical air-tight barrier & pressure resistant doors
- Negative or low pressure air within the space
- Exhaust through HEPA filters
- Epoxy coatings to surfaces



Cost Considerations

- Signing off on a final scope of work in order to establish a control budget.
- Effect the mechanical and electrical trades have on achieving the budget
- Lack of competitive pricing on highly specialized equipment

Schedule Influences

- Time to establish a final control budget
- Mechanical trades impact on the schedule
- Schedule delays due to certification
- Appropriate time for commissioning



Drive for Quality

- Coordination through BIM
- > Value for full size mock-ups for wall sections
- Reducing concrete voids through pumping up from below forms and use of agilia
- Coordination of embeds
- Surface preparation efforts for specialty coatings
- Maintaining air temperature and air quality



Commissioning Challenges

- Proper time allocation for commissioning
- Effect of late mechanical changes at project completion
- Late participation of Clients commissioning agent and containment consultants
- Mechanical trades understanding of the systems and how they interact with the rest of the building and equipment





Have You Asked the Following Questions?

- Why am I building this project?
- What are the project goals and objectives?
- How do I procure the best team?



Do You Want to Collaborate or Dictate?

- Do you want your team to be innovative and creative? Or do you want to control the process?
- Do you want to fight for your right to dictate
 how the project is delivered, or do you believe
 you can trust the team you select will deliver
 best value?



Best Value – How to Get It

- Does a fee-based decision guarantee best value?
 If NO, do not make your choice based on fee.
- Does your desire for high quality influence your purchasing decision? If YES, award on capability.
- If you want high quality, should you dictate which trades the builder should use? If YES, then why?



Procure Collaboration

You desire your project delivery process to deliver:

- Earlier project completion,
- Reduced costs, less delays,
- Single point of responsibility,
- Converging interests,
- Quality project,
- Fewer claims and litigation,
- A collaborative team process that provides innovative solutions,
- A strong relationship ...



Success

Procure Collaboration

Then that requires you to determine a way to procure a strong collaborative TEAM, which is not always the lowest price.

Your Relationship With Your TEAM is Key, so buy Relationships!

Determine if You Can Buy RELATIONSHIP

Behaviors

R espect

E xperience

L egal

A ttitude

T rust

ssues

O wnership

N etwork

S olutions provider

H umble

I nnovation

P ersonal



Respect... determine if:

 Will you respect the decisions made by the project team?



Experience... determine if:

 Your Team's experience will prove to be a valuable asset and supports this type of project?



Legal... determine if:

 You have chosen a form of contract that restricts creativity and innovation because it has your builder by the ...?



Attitude... determine if:

 Your Team's attitude has been/will be collaborative?



Trust... determine if:

 Your Team can prove it has earned the trust of previous clients and will do what they say they will do?



ssues... determine if:

 Your Team understands the cause and impact of the issues you are most concerned with?



Ownership... determine if:

 Your Team will take ownership of project challenges, bring responsibility and accountability to your projects to protect your interests?



Network... determine if:

 The builder's network of trade contacts enhances the value of your project?



Solution provider... determine if:

 Your Team will offer solutions that solve challenging project issues?



Humble... determine if:

 Your Team's reputation and behavior will deliver construction services through a fair, conciliatory approach, rather than a combative approach?



nnovation... determine if:

 Your Team will offer innovative solutions to solve complex challenges?



Personal... determine if:

 You want your team to commit personally to the success of the project?



Client Thoughts Regarding Team Choice

- Will this builder listen to my needs?
- Is this builder responsive?
- Do I feel excited?
- Does the builder understand how I do business?
- Why do I want a relationship with this builder?
- Can we communicate well?
- What does this builder fear?
- Would I like to work with this builder?

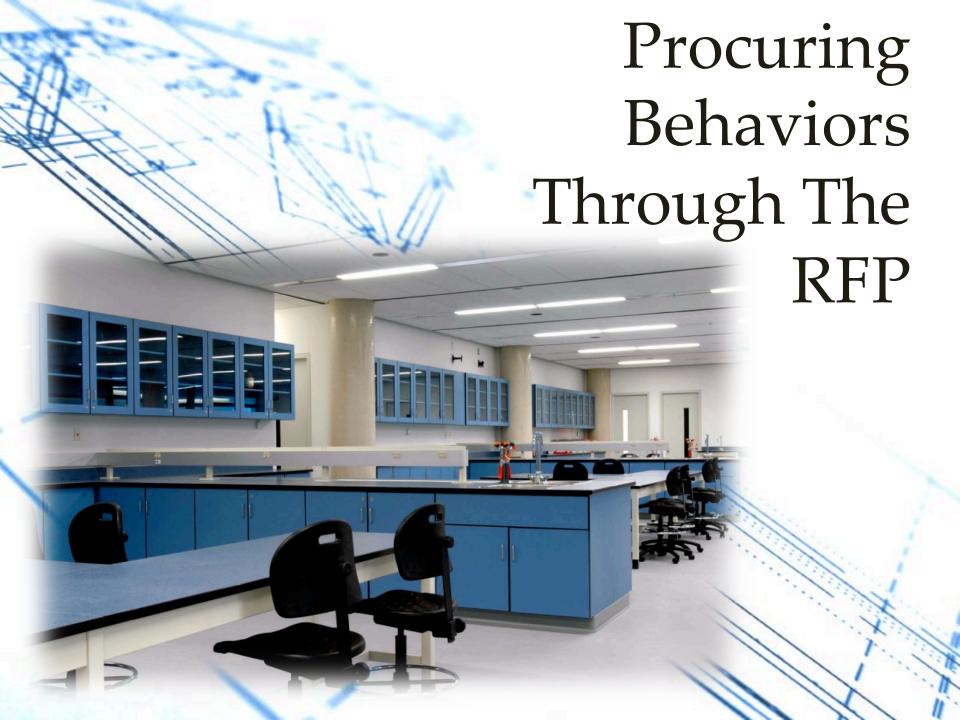


Typical Client Choice Motivators

- Cost (capital & life cycle)
- Schedule
- Quality
- Experience
- Qualifications
- Financial strength
- Risk
- Value for service
- Competitive advantage
- Reliability

- Available resources
- Productivity
- Safety
- Control of market
- Compatibility
- Flexibility
- Creativity/ innovation
- Compliance





Write the RFP's to Reveal...

Who is accountable / responsible?

Performance criteria in lieu of prescribed specifications

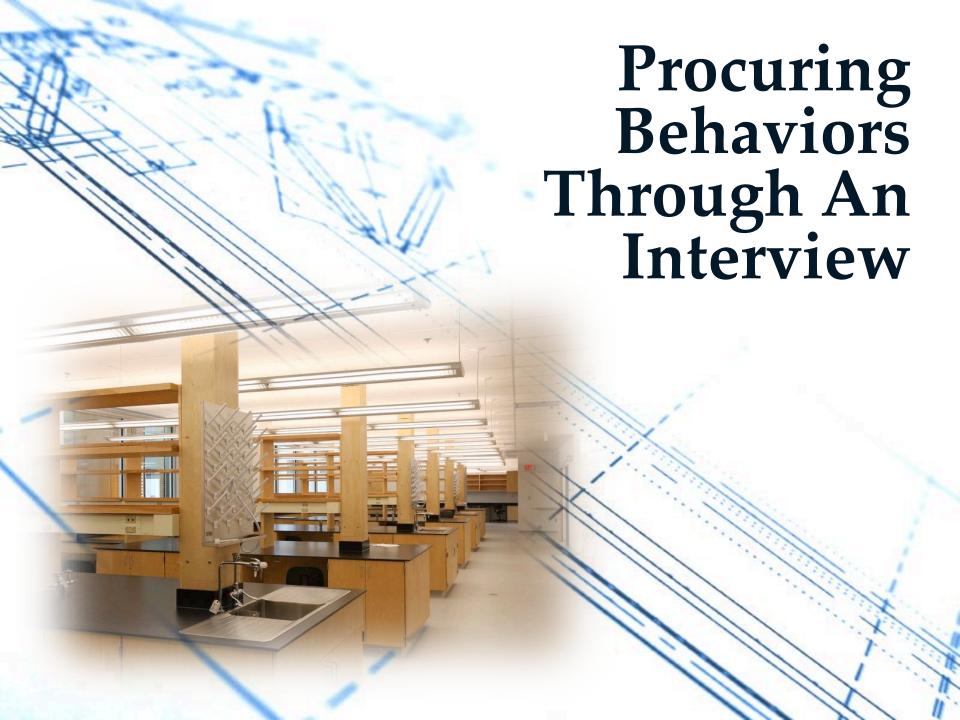
- If the builder offer strong relationships with knowledgeable trade contractors?
- if the trades can be brought onboard early to resolve project challenges?
- The Builders understanding of local market conditions?



Write the RFP to Reveal...

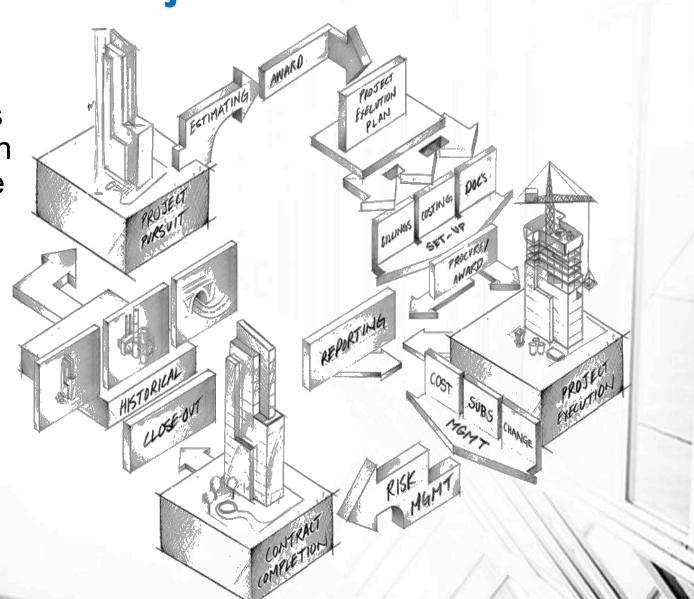
- ➤ If there can be a converging of interests for all parties (i.e., contractor, owner, architect)?
- If the design and construction firms have worked together successfully?
- If their response provides solutions to anticipated project challenges?
- Can the builder show innovation and present a creative and effective analysis of owner needs?

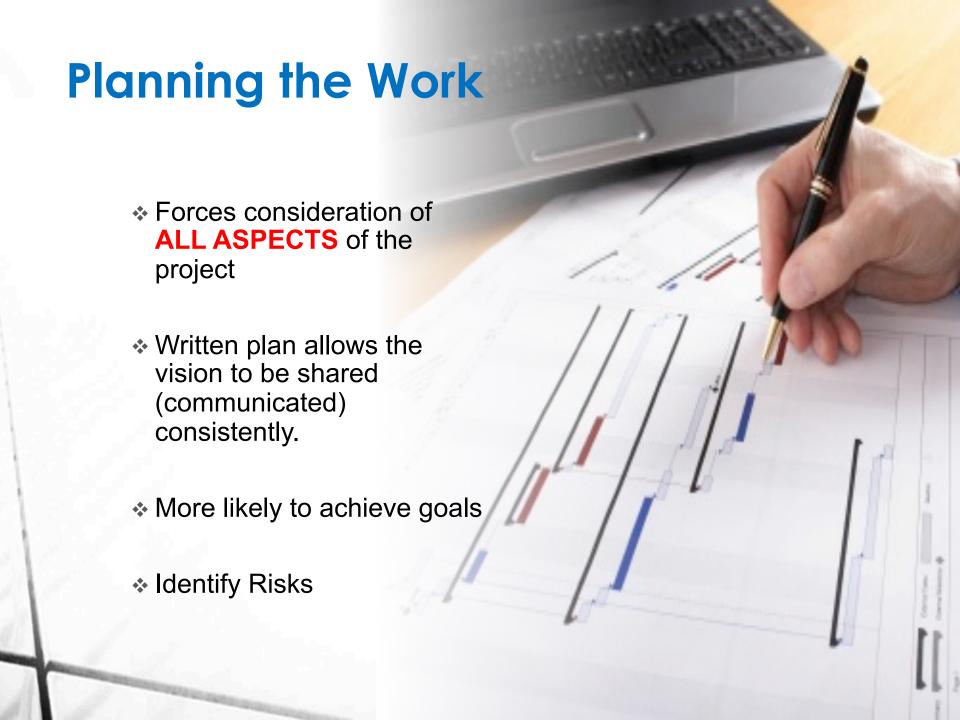




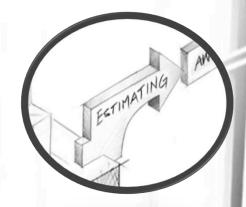
Interview Project Discussion

Where does collaboration reside in the life of a project?





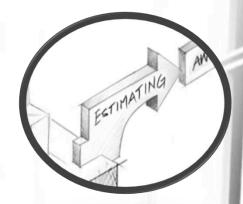
Planning should include



- Project Execution Plan
 - Project Overview
 - Project Team Organization
 - Site Logistics
 - Safety & Environment
 - Major Construction Work Plans
 - Material Handling Systems

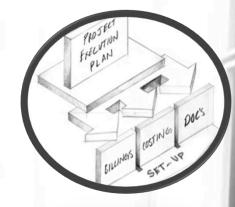
- * Schedule
- Quality Plan
- Contract Closeout Plan
- Project Procedures
- Communications
- Risk Assessment

Question the tender plan



- > Tender closing
 - Do they call subtrades days in advance know who's bidding
 - Eliminate scope gaps
 - Ask for Lead Letters
 - Prepare Bid Recap Sheets in advance
 - Separate sheets by scope of work
 - List all the work on left side
 - List expected subtrades along the top

What is their Start-up plan



- > Award Subcontracts
 - Pre-Award meetings with Low-Bid Subcontractors
 - Include the Superintendent
 - Make sure they include all required scope
 - Review their scope get them to show you everything!
 - Set aside one full set of drawings
 - Markup subcontractor work, who does what.
 - Great reference for the Superintendent on Site
 - Include the minutes as an appendix to their subcontract.

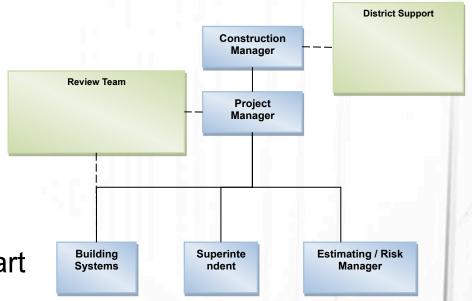
Understand key roles of Team

Project Team Organization

Value:

Describes roles and responsibilities

- Project team contact directory
- > Team organization chart
- Narrative of job duties
- Affirmative action/ minority requirement plan



Know they have an environmental & safety plan

Safety & Environment

Value:

Addresses safety & environment plans from a project specific perspective

- Project Specific Safety & Environment Plan
- Sustainability Green Building, LEED™
- Environmental Management System



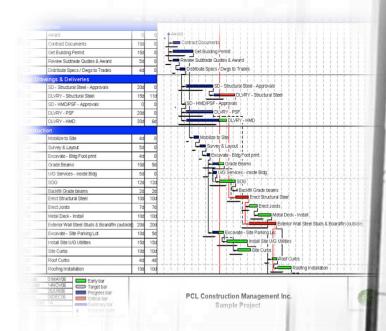
Is their schedule realistic?

Schedule

Value:

Provides concise, high-level communication of major project milestones

- > Milestone schedule
- Cycle/responsibilities for progress updates
- Baseline / Target bars / Activity Notes



Prove their quality plan works

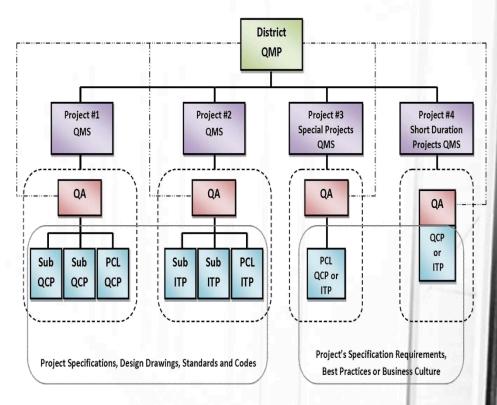
Quality Plan

Value:

Planning for quality... is planning to build it right the first time

Includes:

Project specific quality plan



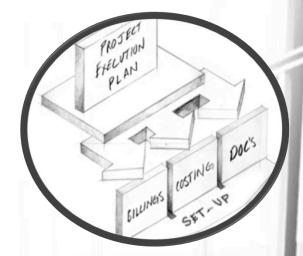
Do they use effective procedures?

Project Procedures

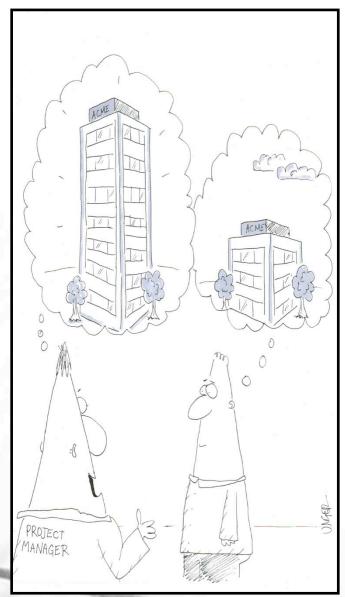
Value:

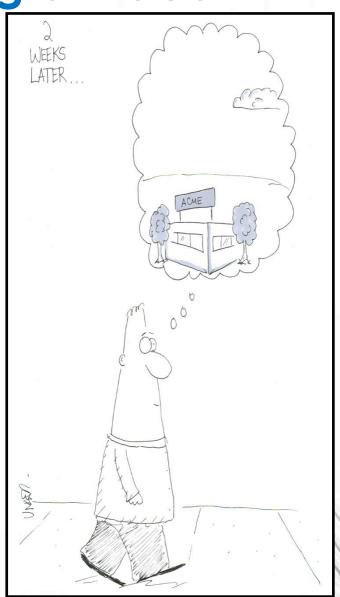
Defines project specific procedures that involve internal and external team members

- Quantity/progress reporting
- Subcontract controls & procedures
- Change requests/change order procedures
- > Contract document distribution
- Submittal tracking procedures
- Request for information (RFI) procedures
- > Site instruction procedures
- Contract billing procedures



Communicating an idea





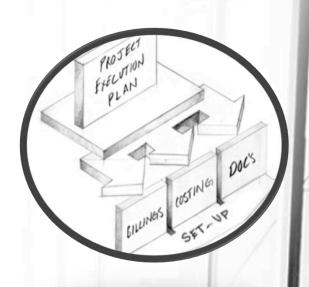
Will they communicate well with the team?

Communications

Value:

Ensures that project execution is seamless and our clients understand the value you deliver

- > Partnering
- Project meetings
- Neighborhood/stakeholder communications
- Value management plan



Miscommunication of Ideas

When Communication isn't Clear...



Will their close-out plan be achievable?

Contract Closeout Plan

Value:

- Effective contract closeout is essential to client satisfaction, your reputation
- Start at the initial planning phase of the project

- Planned start date for Closeout Planning Meetings
- > Commissioning/turnover schedule

