



Enterprise Construction Project Management Solution

Georgia State Financing and Investment Commission

Panel

Andy Triemer, Director of Information Technology, GSFIC

Jon Antevy, Chief Executive Officer, e-Builder, Inc.

Joel Heaton, Senior Project Manager, GSFIC

Winston Thompson, Database Manager, GSFIC

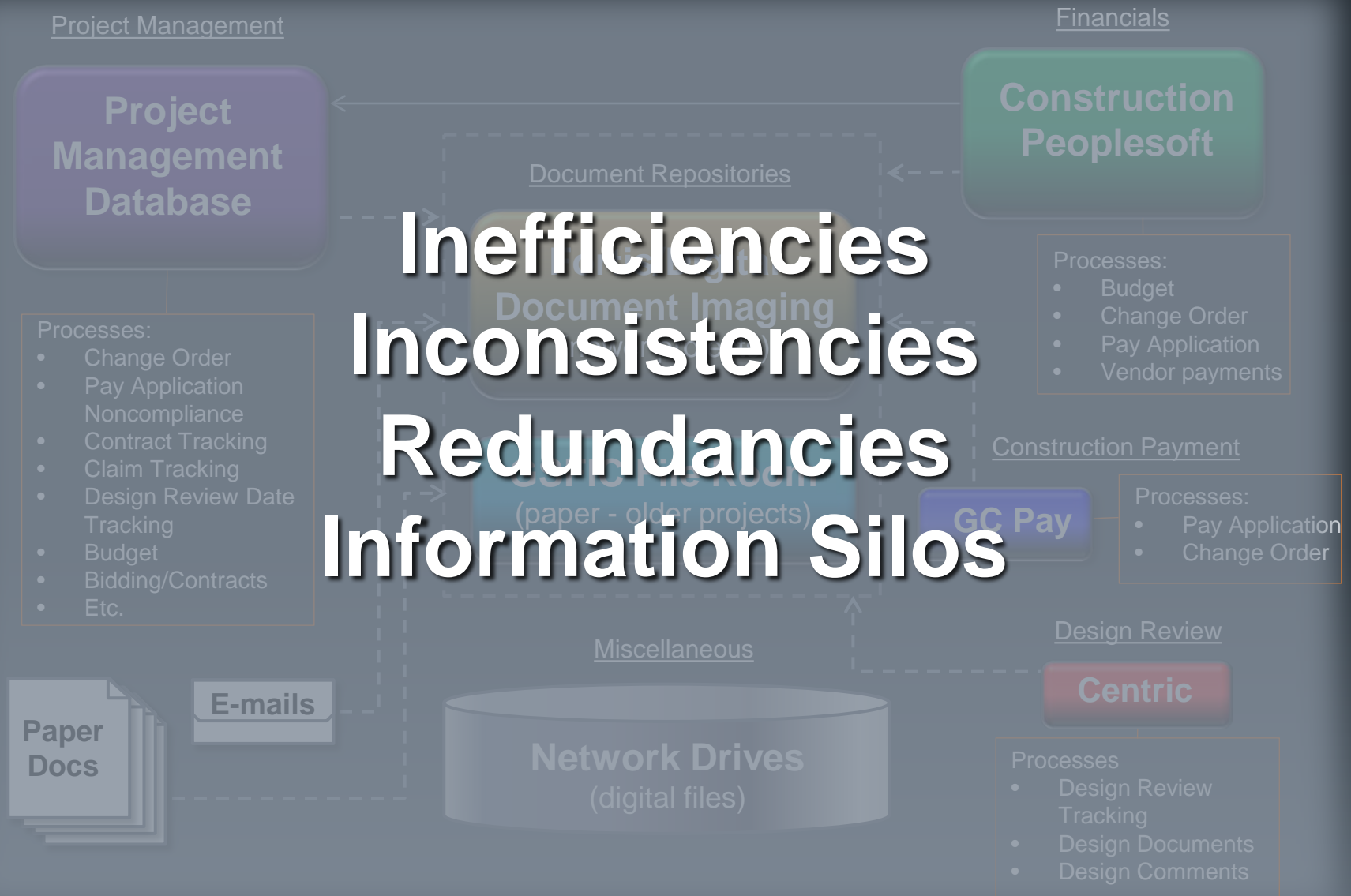


COMING
SOON!



GSFIC CONSTRUCTION MANAGEMENT SYSTEMS

- CURRENT -



GSFIC CONSTRUCTION MANAGEMENT SYSTEMS - FUTURE-

Project Management

Processes:

- Pay Application
- Change Order
- Noncompliance
- Contract Tracking
- Claim Tracking
- Budget
- Invoices
- Design Review Tracking
- Design Documents
- Design Comments
- Bids/Contracts
- Document Repository
- Etc.

Financials

**Construction
Peoplesoft**

Processes:

- Budget
- Change Order
- Pay Application
- Vendor payments

**RFP- May 2011
10 Vendors**



**Interviews and
Demonstrations**

**Paper
Docs**

E-mails

*Using
Agency
(and others)*

*Design
Professional*

*Construction
Professional*



New Project Management System

- Web Based Solution
- All Major Stakeholders
 - Design Professional
 - Construction Professional
 - Using Agency
 - Other State Agencies
 - Etc.
- System Managed by GSFIC (supported by eBuilder)
- Spring 2013





REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA

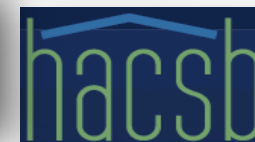
The Maryland-National Capital Park and Planning Commission



CITY OF WORCESTER, MASSACHUSETTS

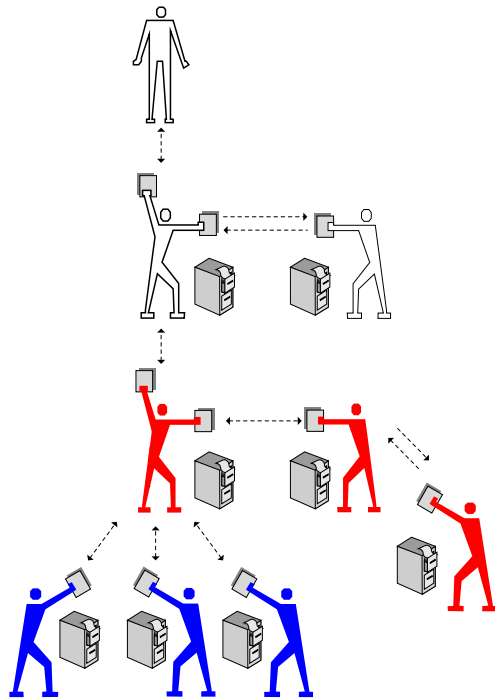
Springfield, Massachusetts

Parks & Recreation

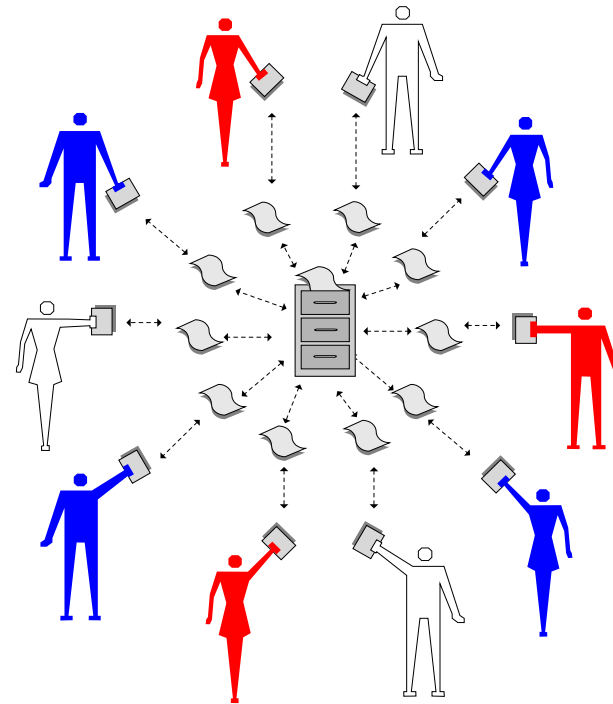


18 Year Experience Within the Public Sector

A Centralized Sharing Model



Traditional



Collaborative

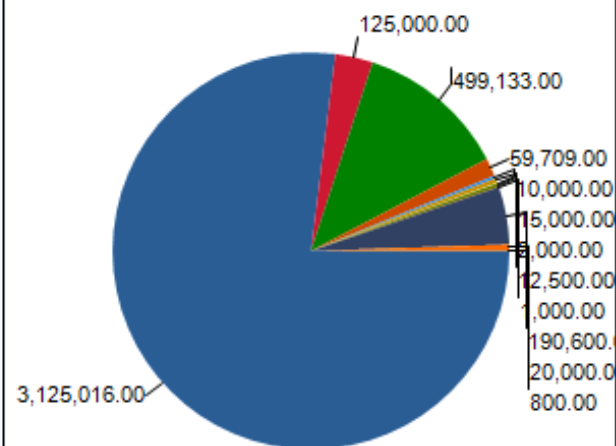
Auditability, Accountability, Transparency

View Dashboard (Go to Dashboard List)

Executive Summary Edit

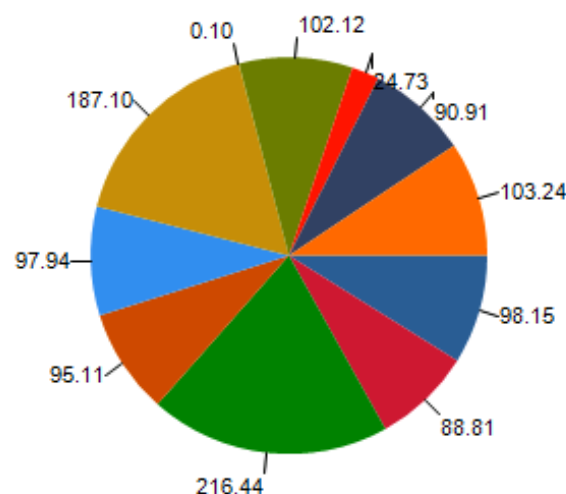
Change Order \$ by Project

Commit %>3



- *Claude Moore
- 10421 - Downly Roof Replacement
- 19483 - Johnson Building
- Adama Hall Exterior Renovation
- Ambulat Centre
- DRL Lab Roof
- Klassel Dormitory
- Lake Oswego Water Treatment Plant

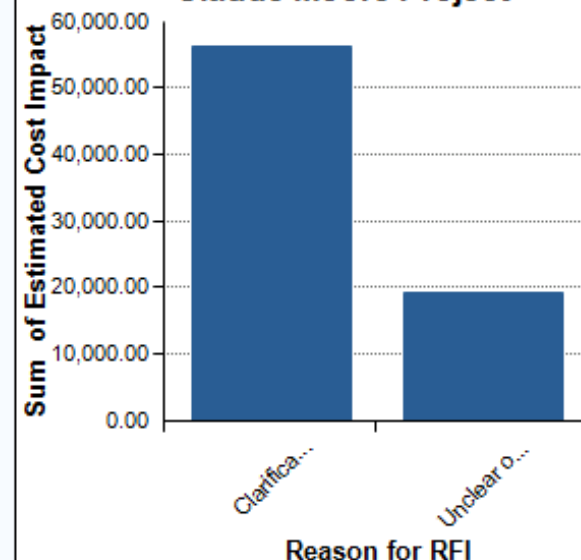
% of Committed Budget



- *Claude Moore
- *Gittis Roof Replacement
- 10048 - David Rittenhouse Labs
- 10052 - Levy Tennis Pavillion
- 10336 - Solomon Boiler Replacement
- 10421 - Downly Roof Replacement
- 11111 - Locust House
- 19483 - Johnson Building

Open RFI's - Cost Impact

Claude Moore Project



Grouped by Week

Claude Moore



Management By Exception To Address Problems Early

Recent Pages...

Cost > Project Cost Summary

Cost Summary For *Claude Moore

Financial Summary [Expand All](#) | [Collapse All](#) Layout: [Standard](#) Group By: [Category](#)

		A	B	C A + B	D	E	
Line Item	Description	Original Budget	Approved Budget Changes	Current Budget	Pending Budget Changes	Future Appropriations	Project
1000	Pre-Construction Costs	134,314.00	2,400.00	136,714.00	0.00	0.00	
1010	Legal / SEA Fees	41,973.00	400.00	42,373.00	0.00	0.00	
1020	Printing Costs	16,789.00	0.00	16,789.00	0.00	0.00	
1040	Consulting / Professional Services	75,552.00	2,000.00	77,552.00	0.00	0.00	
2000	Construction Costs	16,789,366.00	732,300.00	17,521,666.00	150,000.00	280,000.00	
2020	General Construction - Building	16,789,366.00	32,300.00	16,821,666.00	150,000.00	280,000.00	
2030	Miscellaneous	0.00	700,000.00	700,000.00	0.00	0.00	
3000	Equipment & Furnishings	4,827,006.00	3,600.00	4,830,606.00	0.00	(85,000.00)	
3001	Equipment	2,799,006.00	0.00	2,799,006.00	0.00	5,000.00	
3005	Furnishings & Installation	468,000.00	0.00	468,000.00	0.00	110,000.00	
3010	Data Communications	1,560,000.00	3,600.00	1,563,600.00	0.00	(200,000.00)	
4000	Architectural / Engineering	1,733,871.00	24,000.00	1,757,871.00	100,000.00	65,600.00	
4010	Architectural / Design Services	1,509,661.00	24,000.00	1,533,661.00	100,000.00	10,000.00	
4040	Additional Design Services	71,355.00	0.00	71,355.00	0.00	0.00	
4050	Engineering Services	114,320.00	0.00	114,320.00	0.00	55,600.00	
4060	A&E Reimbursement	38,535.00	0.00	38,535.00	0.00	0.00	
5000	Inspections / Tests / Permits	547,856.00	1,500.00	549,356.00	0.00	(10,000.00)	
5010	Geotech Inspection & Testing	83,947.00	0.00	83,947.00	0.00	(10,000.00)	
5040	Building Permit & Fees	463,909.00	1,500.00	465,409.00	0.00	0.00	
6000	Project Escalation / Financing	2,148,186.00	100,000.00	2,248,186.00	(250,000.00)	0.00	
6001	Capitalized Operating Costs	0.00	100,000.00	100,000.00	0.00	0.00	
6002	Financing	708,972.00	0.00	708,972.00	(250,000.00)	0.00	
6003	Non-Project	0.00	0.00	0.00	0.00	0.00	
6004	Escalation	1,439,214.00	0.00	1,439,214.00	0.00	0.00	



Search

Search

Project Menu

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Cost Menu

- Cost Summary
- Funding Sources
- Budget Details
- Forecasts
- Commitments
- Actual Costs
- Cash Flow
- Other Cost Columns

Real Time Visibility Into Anticipated Costs Reduce Surprises

Work Change Directive(HAS2)061810050706[1] [Compatibilit...

Table Tools

Home Insert Page Layout References Mailings Review View Design Layout

ACME Industries

Legend

- Required Field
- Editable Field
- Read Only Field

Work Change Directive (HAS2)

Project:	*Claude Moore
Process:	Work Change Directive
Subject:	
Due Date:	20 days after submitting document

Acceptance by Contractor

Contractor Acceptance	
Comments:	

Proposed Adjustments

Contract Price:	Unit Price	Contract Time Proposed:	Remain Unchanged
Unit:	EA	If Adjusted?:	Increase
Amount:		Adjusted Number of Days:	
As Follows Comments:			

Notice to Proceed by City

City Engineers Comments:	
Deputy Director Comments:	
Project Manager Comments:	
Director of Aviation Comments:	

Description of Changes

Justification of Change:	
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Confidential & Proprietary

Page 1 of 2

Page: 1 of 2 Words: 1/168 89%

Use of Email, Fax, and MS Word Promotes Adoption

Potential Change Order (PCO) - 3

Accept	Decline
Project: *Claude Moore	
Process Document: PCO - 3 Show Routing History	
Current Workflow Step: PM Review Show Workflow	
Subject:	Lobby Windows
Tracking Prefix:	
Status:	Submitted

Details Comments (0) Attached Documents (0) Attached Processes (0) Attachments

RFI Information

Reason for RFI:	
Information Request:	
Est Cost Impact:	
RFI Clarification Response:	

Commitment Change Details

Status:	Draft
Commitment:	110982 - General Construction
Created:	06.18.2009 (Rick Quigley)
Date Of Change:	06.18.2009 <input type="text"/>

Commitment Change Custom Fields

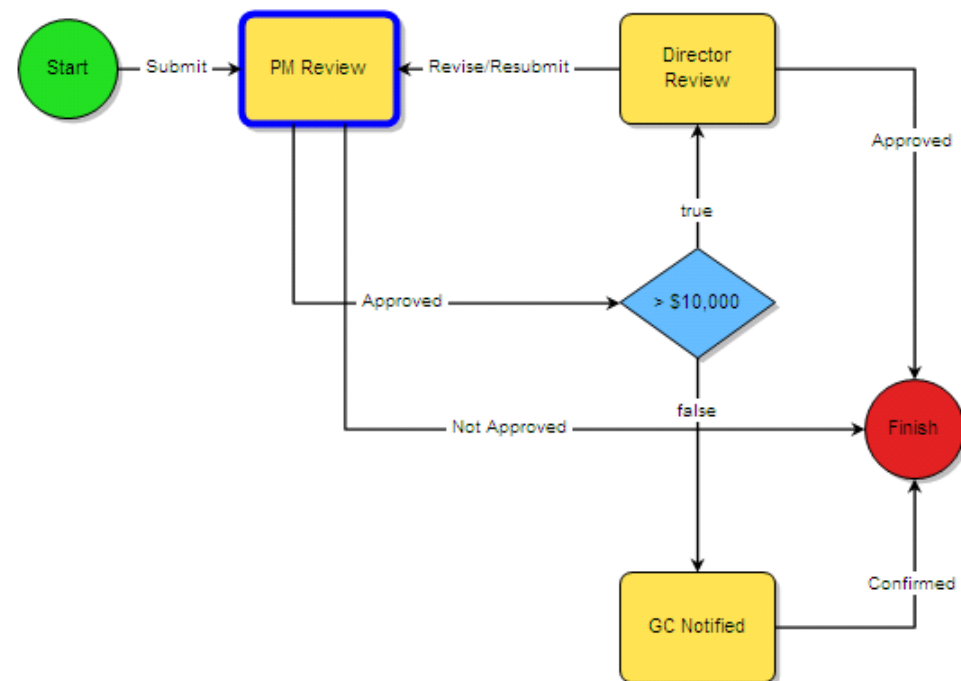
NOC #:	
COR #:	

Commitment Change Items

	#	Description	Comm
Delete	001	General Construction - Building	001
Delete	002	Consulting / Professional Services	002
New	003	Select One..	

PCO - 3

Graphical View



Home

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Reports

Jump To: Import Forms

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ACME Industries

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Search

Forms > Main

Forms

All Open Change Orders

Edit | Add View

Go to Forms for..

	Project Name	Form Type	Form Counter	Subject	Author	Held By	Date Due	Program
<input type="checkbox"/>	Ambulat Centre	Change Order	1	Change Order: Site Work Change Order	Development, Dan	Manager, Marty	10.25.2007	The Phyllis for Childre
<input type="checkbox"/>	Adama Hall Exterior Renovation	Change Order	1	Change Order: Change Order for flooring change	Contractor, Carl	Manager, Marty	10.25.2007	The Phyllis for Childre
<input type="checkbox"/>	10336 - Solomon Boiler Replacement	Change Order	1	Change Order: Object to be moved	Admin, Al	Development, Dan	12.30.2007	The Phyllis for Childre
<input type="checkbox"/>	*Claude Moore	Change Order	1	Change Order: Sidewalk Change	Quigley, Rick	Quigley, Rick	01.22.2010	
<input type="checkbox"/>	*Claude Moore	Change Order	2	Change Order: Pay App #15	Quigley, Rick	Yacona, Bill	02.09.2010	
<input type="checkbox"/>	*Claude Moore	Change Order	3	Change Order: Change to existing fire alarms	Aranda, Sergio	Calia, Dan	04.23.2010	

Automated Logs = One Version of the Truth

Details	Notes (0)	Documents (0)	Forms (0)	Processes (0)
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Project Scenario Funding Edit Copy Delete Apply All Escalation Finalize Export Zoom-in Zoom-out

Status: Draft

Description:

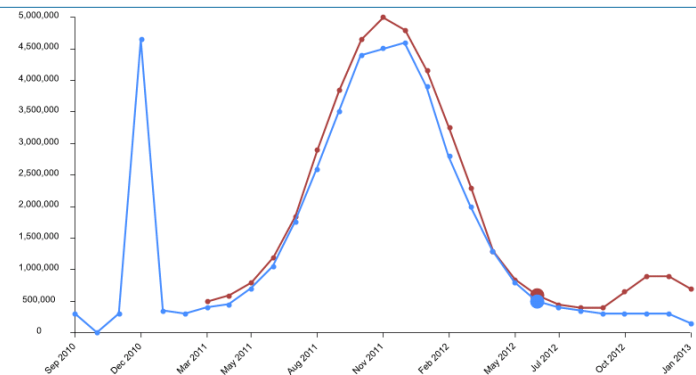
			FY 2012												FY 2013																											
			FQ4				FQ1				FQ2				FQ3				FQ4				FQ1				FQ2				FQ3				FQ4				FQ1			
			M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O								
	Name	Amount																																								
	Funding	173,000,000																																								
	Bond 1	75,000,000																																								
	Grant 2	8,000,000																																								
	Fund 1	90,000,000																																								
	Active Projects	80,635,730																																								
	*Claude Moore	35,385,730																																								
	Observatory Hall	39,950,000																																								
	Conrac Office Renovation	5,300,000																																								
	Security System Upgrade	0																																								

Cash Flow for Observatory Hall

Date	In The Plan	Current
J	4,500,000	5,000,000
A	4,500,000	4,500,000
M	4,500,000	4,500,000
J	4,500,000	4,500,000
J	4,500,000	4,500,000
A	4,500,000	4,500,000
S	4,500,000	4,500,000
O	4,500,000	4,500,000
N	4,500,000	4,500,000
D	4,500,000	4,500,000
J	4,500,000	4,500,000
F	4,500,000	4,500,000
M	4,500,000	4,500,000
A	4,500,000	4,500,000
M	4,500,000	4,500,000
J	4,500,000	4,500,000
J	4,500,000	4,500,000
A	4,500,000	4,500,000
S	4,500,000	4,500,000
O	4,500,000	4,500,000
N	4,500,000	4,500,000
D	4,500,000	4,500,000
J	4,500,000	4,500,000
F	4,500,000	4,500,000
M	4,500,000	4,500,000
A	4,500,000	4,500,000
M	4,500,000	4,500,000
J	4,500,000	4,500,000
J	4,500,000	4,500,000
A	4,500,000	4,500,000
S	4,500,000	4,500,000
O	4,500,000	4,500,000

Cash Flow for Observatory Hall

Date	In The Plan	Current
Oct 2011	4,054,159.92	4,286,114.54
Nov 2011	4,167,704.47	4,616,550.10
Dec 2011	4,232,145.54	4,442,037.79
Jan 2012	3,598,243.11	3,826,373.75
Feb 2012	2,589,153.07	2,977,925.33
Mar 2012	1,854,946.31	2,137,519.84
Apr 2012	1,180,727.51	1,221,216.81
May 2012	755,345.23	781,271.39
Jun 2012	481,701.69	534,820.77
Jul 2012	371,737.80	416,458.79
Aug 2012	322,048.01	367,399.29
Sep 2012	293,655.68	349,779.07
Oct 2012	297,641.92	594,279.22
Nov 2012	286,522.43	842,783.97
Dec 2012	295,714.96	842,429.41
Jan 2013	133,619.43	654,614.28
Totals	39,950,159.02	39,686,099.50



Save Current as Plan Cancel

Requested Amount	44,748,000
Cash Flow Total	125,383,730
Net Amount (Funding Total – Cash Flow Total)	47,616,270

	0	4520999.999999999	
4	59226183.6	11320923.36	
	-22226183.599999996	25679076.640000004	

Improve the Planning Process to avoid overruns, slippages & shortfalls

e-Builder

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Documents Menu

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- Find Deleted Documents
- Custom Fields

Documents > Project Documents

Documents For *Claude Moore

Folders

Expand All | Collapse All | Refresh All

- Root Directory [10]
 - 00 Cost Information [40]
 - 01 Communication [1]
 - Correspondence [0]
 - Meeting Minutes [2]
 - 02 Concept [0]
 - 03 Feasibility [0]
 - 04 Capital Budget Request [0]
 - 05 Consulting Services [0]
 - 06 Design [1]
 - 01 Design Development [0]
 - 07 Bidding [0]
 - 08 Construction [0]
 - As-Built [1]
 - Field Reports [0]
 - RFI folder [3]
 - Schedules [1]
 - Shop Drawings & Submittals [0]
 - Shutdown Requests [0]
 - 09 Close Out [0]
 - 10 Operations [0]
 - Bid Packages [9]
 - BIM Model [0]
 - Contract Review [0]
 - Email Inbox [0]
 - Fax Inbox [0]
 - Progress Photos [2]

X-1stBmt.dwg - Windows Internet Explorer

https://app.e-builder.net/da2/Documents/FileViewDW

Google

29

Dimension should be 14'-5"

21'-7"

5'-7"

13'-5"

28'-0"

7'-10"

OPT. MEDIA CENTER

Informative Graphics

90°

Model

Centralize Key Documentation & Streamline Closeout Process



University Hospital - UTSW

- 32 acre site
- 1.3M square feet – 12 stories
- 460 Beds
- 24 surgical suites (ORs)
- Hospital Construction: \$400M
- Total Hospital: \$694M
- Total TEP & MMB: \$59M
- Total Project: \$800M
- Fast-track design – RTKL / WPM / SSR
- GMP construction contract – Hunt
- Currently at about 75% CDs
- Broke ground March 16

BIM Integration Tools and Viewers – Ask for Our UTSW Case Study

Jump To: [Schedules](#) | [Tasks](#)

Recent Pages...

[Schedules](#) > Details

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Schedule Details For *Claude Moore

Schedule Summary (Last updated: 06.17.2010)

Save as Template

Update

Import

Project Name:	*Claude Moore	Baseline Start:	05.19.2008
Start:	05.19.2008	Baseline Finish:	03.13.2009
Finish:	03.08.2011	Baseline Duration:	10.75mo
Duration:	36.50mo	Finish (including Drafts):	03.08.2011
Start (including Drafts):	05.19.2008	Start Variance:	On Schedule
Schedule Manager Role:	Construction Manager	Finish Variance:	25.75mo late
Schedule Manager User:	Admin, AI		

Save as Template

Update

Import

Tasks (24)

Custom Fields (4)

Notes (2)

Documents (0)

Forms (0)

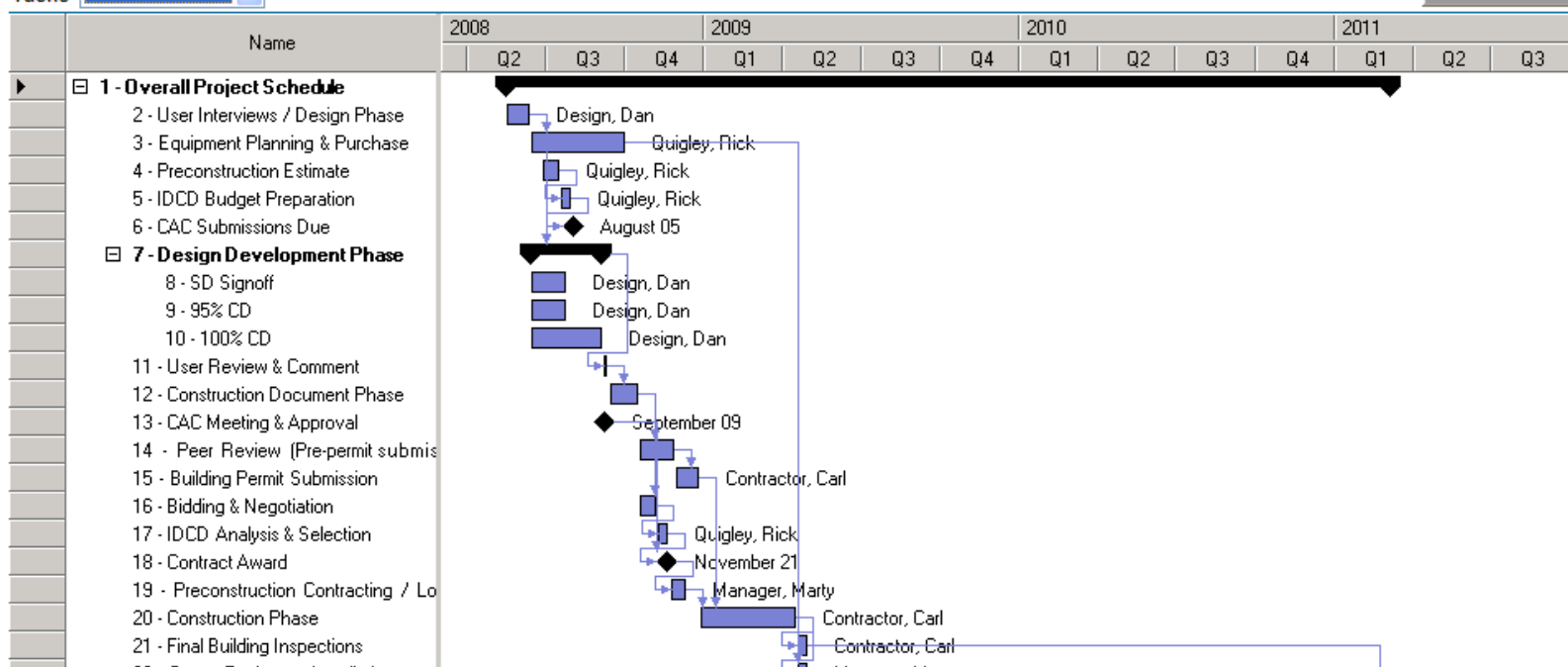
Processes (0)

Snapshots (4)

Tasks

Gantt Chart

Save Snapshot



Schedule & Cost Already Integrated Enabling Roll-Up Reports

Recent Pages...

Bidding > Project Bidding > Bid Package Details



Search

Search

Bid Package Details

- Bidding Details
- Bid Scope
- Potential Bidders
- Invited Bidders
- Bid Documents
- Questions/Responses
- Bid Tabulation

Bidding Information

Manage Codes

Close

Send Message

Message History

Project:	*Claude Moore
Bid Package:	New Bed Tower GMP #1
Status:	Open

Bid Tabulation Options

Hide Options

Export

Re-Run

- ☐ Show short-listed bidders only
- ☒ Display bid average/low/high/spread
- ☒ Display Additional Information
- ☒ Highlight low values
- ☒ Display bidder qualification notes
- ☐ Display Subcontractors
- ☒ Display (adjusted) unit cost
- ☒ Display (adjusted) total amount
- ☐ Display % of base bid total
- ☐ Display % of section name
- ☐ Display cost per square foot
- ☐ Display Notes

Note: Cost Per SqFt. column will be included only if "Bid SqFt" is populated for the bid package

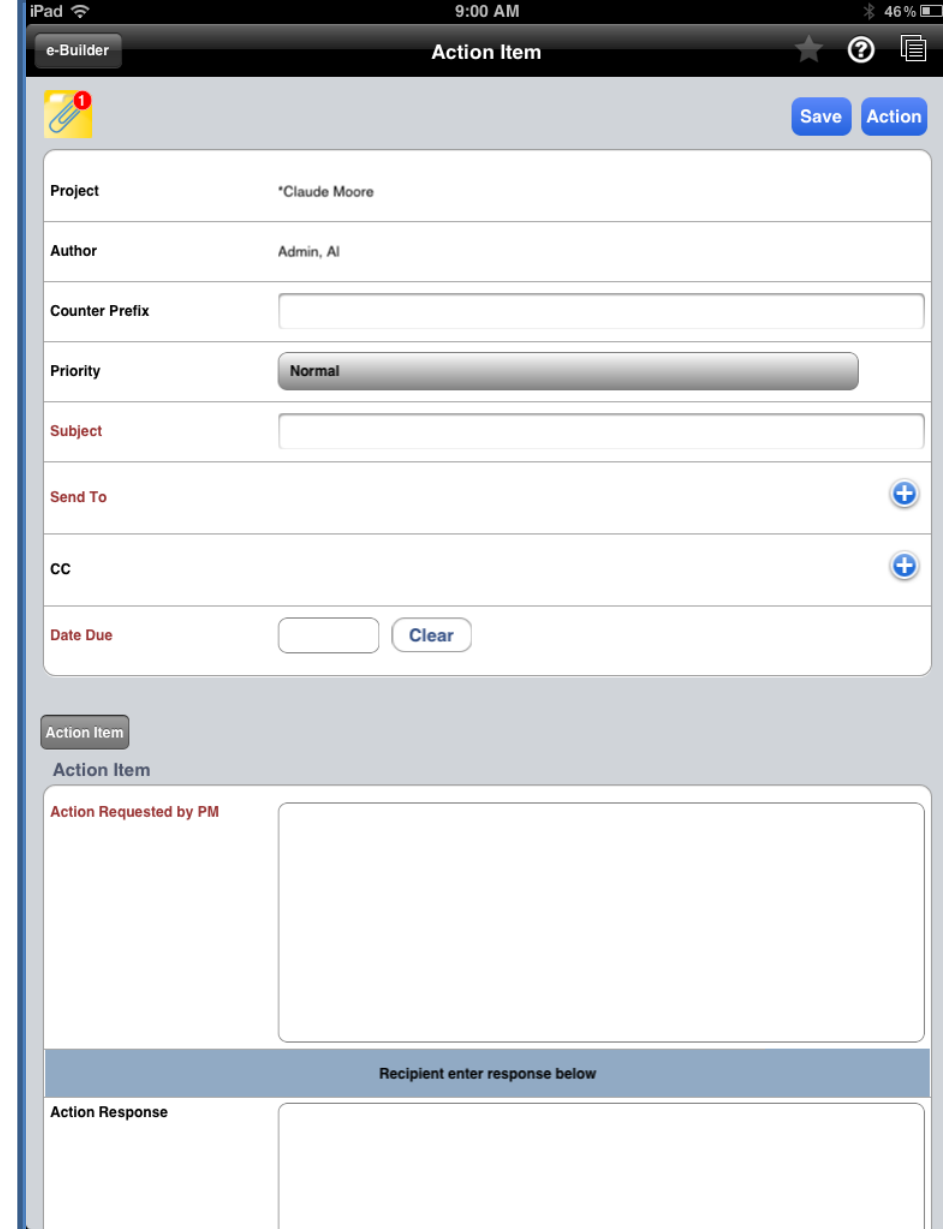
Bid Tabulation

= Low Value

= Adjusted Value

= Short-Listed Bidder

Project: *Claude Moore				Estimate		AHSC Architects PC		Avdex Corporation	
Bid Open Date: 06.22.2010 12:35 PM						Robert Parish dmoskowitz@e-builder.net (305) 555-9999		Bernard King implementation@e-builder.net (202) 999-9999	
	Description	Quantity	UoM	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
Base Bid									
2.01	Mobilization and Demobilization				46,000.00		42,100.00		40,300.00
2.02	Earthwork				90,000.00		96,500.00		121,000.00
2.03	Landscaping				22,500.00		13,250.00		19,300.00
2.04	Utilities				72,000.00		68,000.00		67,200.00
3.01	Concrete	950	TN	85.00	80,750.00	78.25	74,337.50	77.00	73,150.00
4.01	Masonry				82,000.00		89,430.00		90,000.00
5.01	Structural Steel	300	TN	765.00	229,500.00	278.00	83,400.00	279.00	83,700.00



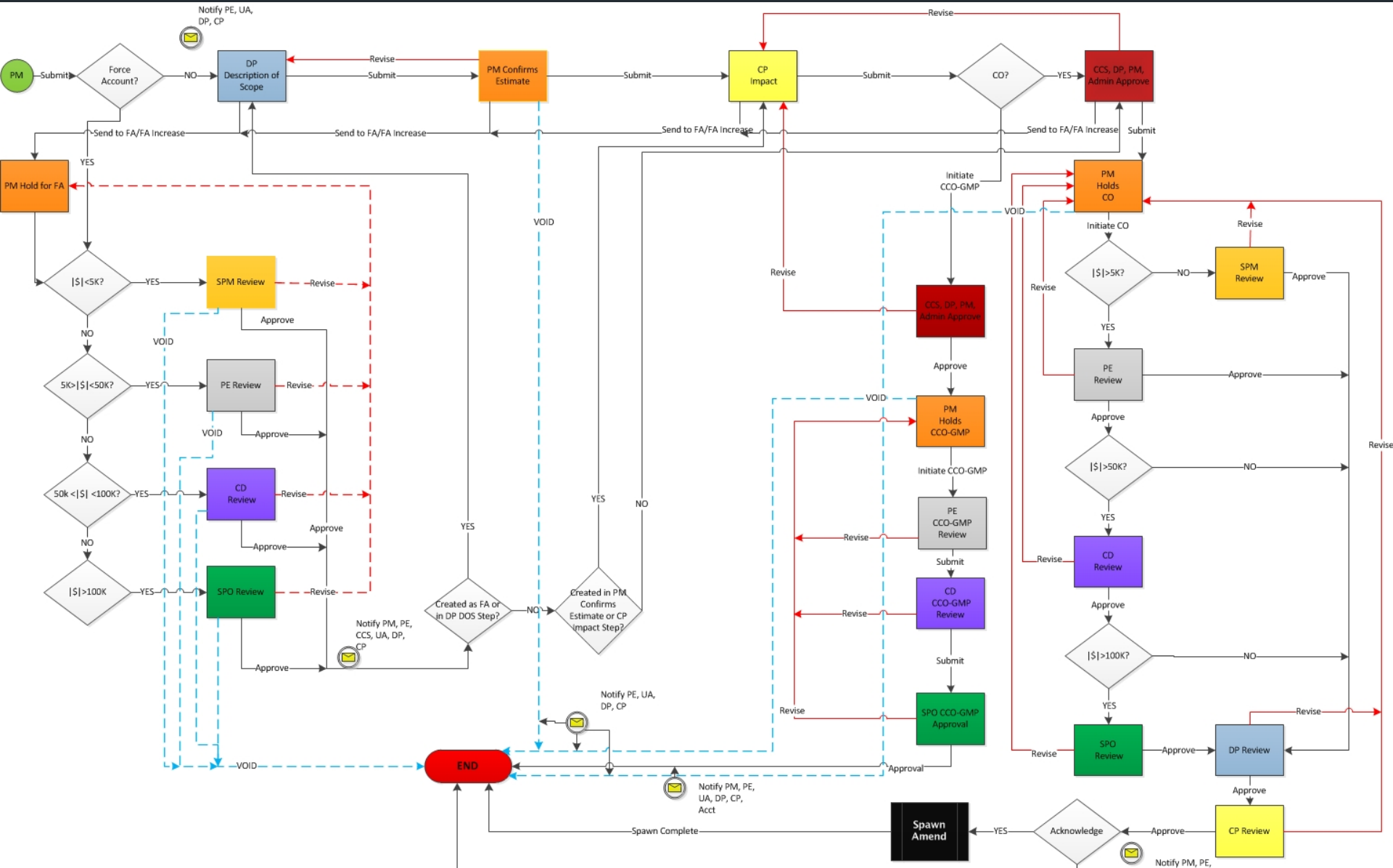
iPhone, iPad, Android Enabled = Easy Access From Field



Document Management

- **Archiving Existing Projects**
- **Logical File Structure**
- **Automatic Archiving**
- **Document Retrieval**

Workflow Change Order Process



Workflow Change Order Process


Give Us Your Feedback on this Page  Like  Dislike

Incumbrance Record Items (IR) - 9

Accept	Decline	-- Please select an action --	Take Action	Check Spelling	Print	Copy	Delegate	Save	Cancel
Project: DJJ-EC-12-001 Metro RYDC Education									
Process Document: IR - 9 Show Routing History					Overall Due Date: 08.07.2012 02:00PM				
Current Workflow Step: CCS,DP,PM, Admin Aprv. Show Workflow Diagram					Step Due Date:				
Subject: Go to e-builder award meeting									
Status: Projected									

Details | Comments (1) | Attached Documents (1) | Attached Processes (0) | Attached Forms (0) | Attached To (0)

IR Details

Incumbrance Type:	CO
Authorization Type:	Lump Sum
Description of Scope (by DP):	Go to e-builder award meeting
Cost Estimate of Scope (by DP):	2,000
CP Cost:	5,000
Impact to Const. Schedule-Days (by DP):	50
CP Impact to Constr. Schedule (Days):	5
Backup Documentation (by DP):	

Commitment Change Details

Commitment:	CP01 - Constructuon	Company:	ABC Construction
Status:	Projected		
Created:	08.07.2012 (Joel Heaton)		
Date Of Change:	08.07.2012	Reason Code:	Unforeseen Condition (Changes)

Commitment Change Custom Fields

Description of Change:	
Description of Reason:	



Anticipated Rollout Schedule

- Now using e-Builder for Design Review for all new projects (started Spring 2012)
- Now using e-Builder for our electronic archival system of current/active projects (started Aug 2012)
- Pilot Projects Fall 2012
- GSFIC Training January, 2013
- Client Training February – March 2013
- Rollout for all new projects Spring 2013



Q&A