



Presentation to the Senate Finance Committee

Capital Construction & State of the Pools Update

(data as of December 31, 2014)

January 15, 2015

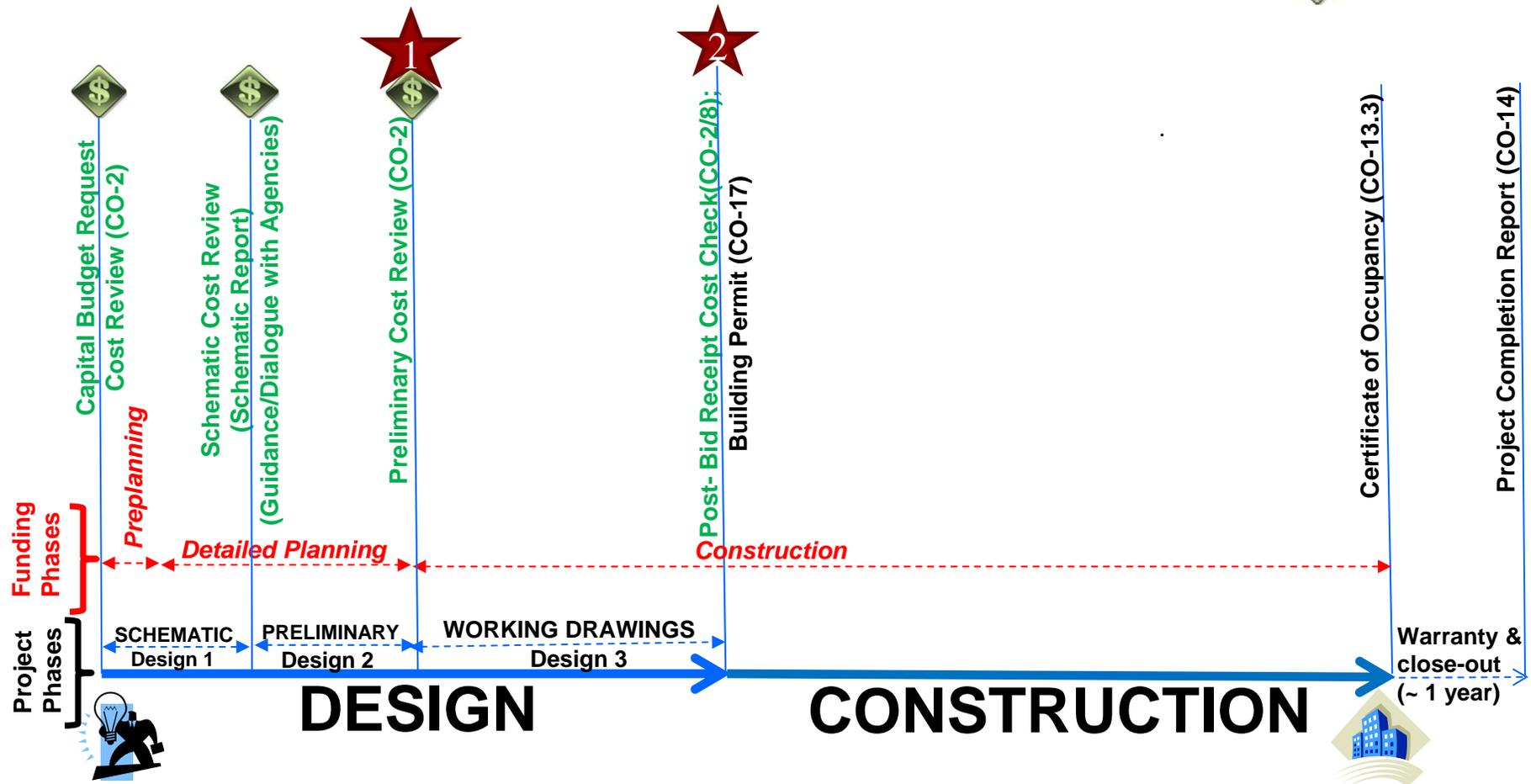


Project Status Descriptions

- **Design 1 (schematic):** Undergoing schematic design development and cost review. All projects begin in this phase. This phase is completed when the Schematic Cost Report is issued.
- **Design 2 (preliminary):** Undergoing preliminary design development and cost review; this phase is completed when BCOM recommends approval of the CO-2 for construction funding to DPB.
- **Design 3 (working drawings):** Undergoing working drawings development; this phase is completed when BCOM approves the CO-8; or, BCOM recommends approval of a revised CO-2 if supplemental funding is required; or, if a CO-8 is not required.
- **Construction:** Undergoing construction.
- **Complete:** Project complete; the project is administratively complete when a CO-14 has been approved or DPB submits a Project Completion Report to Treasury

The Pool Process

Phases, Critical Milestones (★) and Detailed Cost Reviews (💰)



★ This detailed cost review ensures the project is “right-sized” and the funding is appropriate to complete the design and construct the facility. This establishes the basis for the application of the “105% rule.” **This is the most critical “GO” for an agency in the pool process as it typically allows them to “proceed with execution.”**

★ Cost check ensures bids are within authorized funding; based upon bid prices, either maintain current project funding (typically the case), reduce project funding if exceptionally low bids received, or increase project funding via an agency appeal up to 105% of that amount determined at milestone 1. If bids result in project(pool \$) > 105% as defined at milestone 1, then agency must either reduce scope, provide more agency funding, or request additional \$ from GA.

Executive Summary, Construction Pools Status

Pool	Year (July)	\$ (M)	Current # of projects in pool	% of projects with detailed planning auth before project is added to construction pool	★ 1 % of projects with preliminary design review complete 6/30/14 →12/31/14	★ 2 % of projects authorized for construction contract award 6/30/14 →12/31/14	% of projects complete	Projected \$ Savings from cost reviews (\$M)	Comments
Chapter 1, (VPBA)	2008	\$236	12	0%	100% →(same)	92% →(same)	8%	\$1	DOC Construct WWTP at Bland remains
Chapter 1, (VCBA)	2008	\$596	47	0%	100% →(same)	96% →(same)	21%	\$54	VCU Dental Clinic @ Wise; Mtrsports/WF Dev., PHCC, acquired, renovation remains
Chapter 890	2011	\$1,088	31	88%	100% → (same)	93%→100%	3%	\$8	
Chapter 3	2012	\$120	36	5%	47%→75%	26%→44%	3%	\$2.4	Savings from Ch 3 not auth for 806. Accelerating construction costs reducing savings.
Subtotal								\$63+\$35 = \$98	Additional appropriation available & required for 806.
Chapter 806	2013	\$877.5 + \$4.8 (caboose) = \$882.3	49	67%	53%→67%	34%→47%	0%	\$	Total 806 Pool forecast is \$981M vs. \$980M limit (\$1M over) incl. \$98M reserve. Current approved 806 is \$754M vs \$750/848M limits.
Chapter 1 (Caboose)	2014	\$300	4	0%	0%	0%	0%	\$0	Capitol Complex Infrastructure and Security. Projects on hold.
Chapter 2	2014	\$55	15	7%	13%	0%	0%	(\$15)	Initially underfunded.
TOTALS		\$3,277	194						



Chapter 1 (VPBA), 2008

Pool	Year (July)	\$ (M)	Current # of projects in pool	% of projects with detailed planning auth before project is added to construction pool	% of projects with preliminary design review complete	% of projects authorized for construction contract award	% of projects complete	Projected \$ Savings from cost reviews (\$M)	Comments
Chapter 1, (VPBA)	2008	\$236	12	0%	100%	92%	8%	\$1	Project not yet under Construction: DOC – Construct Wastewater Treatment Plant at Bland



Chapter 1 (VCBA), 2008

Pool	Year (July)	\$ (M)	Current # of projects in pool	% of projects with detailed planning auth before project is added to construction pool	% of projects with preliminary design review complete	% of projects authorized for construction contract award	% of projects complete	Projected \$ Savings from cost reviews (\$M)	Comments
Chapter 1, (VCBA)	2008	\$596	47	0%	100%	96%	21%	\$54	Projects not yet under Construction: <ul style="list-style-type: none"> • VCU Dental Clinic @ Wise • Motorsports Workforce Dev Center, PHCC (building acquired but renovation has not started)



Chapter 890, 2011

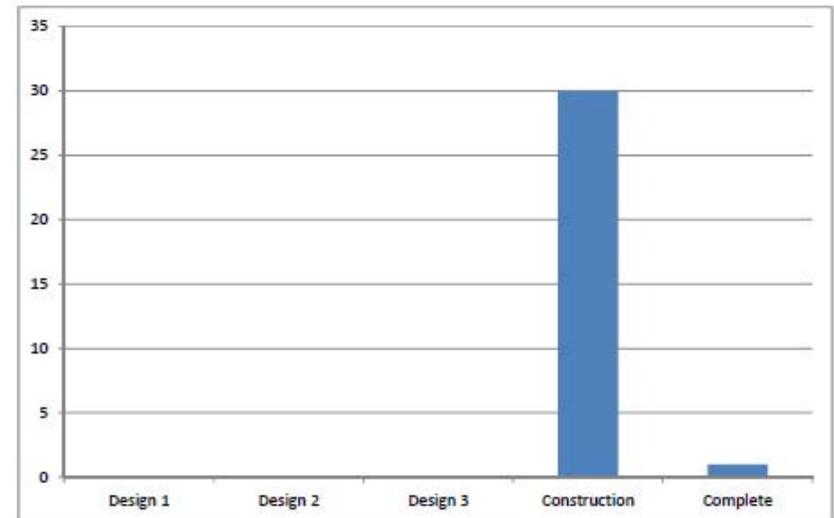
Pool	Year (July)	\$ (M)	Current # of projects in pool	% of projects with detailed planning auth before project is added to construction pool	% of projects with preliminary design review complete	% of projects authorized for construction contract award	% of projects complete	Projected \$ Savings from cost reviews (\$M)	Comments
Chapter 890	2011	\$1,088	31	88%	100%	100%	3%	\$8	None



Chapter 890, 2011, Status Summary

PROGRESS - CH. 890 CONSTRUCTION POOL (31 PROJECTS)

Design 1	0
Design 2	0
Design 3	0
Construction	30
Complete	1





Chapter 890, 2011, Status List

Agency #	Agency Name	Project Name	Project Number	Status
204	College of William and Mary	CWM - Construct Integrated Science Center (Phase III)	17650	Construction
204	College of William and Mary	Renovate Tucker Hall	17652	Construction
207	University of Virginia	Renovate New Cabell Hall (including the Terrace Connector Project)	17654	Construction
207	University of Virginia	Renovate Ruffner Hall	17655	Construction
208	Virginia Tech	Construct Chiller Plant	17657	Construction
208	Virginia Tech	Construct Engineering Signature Building	17658	Construction
208	Virginia Tech	Renovate Davidson Hall	17662	Construction
211	Virginia Military Institute	Renovate Science Building	17664	Construction
212	Virginia State University	VSU - Construct Multipurpose Center	17665	Construction
213	Norfolk State University	Renovate Wilder Center	17627	Construction
213	Norfolk State University	Construct New Nursing and General Classroom Building	17667	Construction
214	Longwood University	Construct University Technology Center	17668	Construction
215	University of Mary Washington	Construct Information and Technology Convergence Center Phase I	17671	Construction
216	James Madison University	Renovate West Wing Rockingham Hospital	17674	Construction
216	James Madison University	Renovate/Expand Duke Hall	17675	Construction
217	Radford University	Construct New Computational Sciences Building	17619	Construction
221	Old Dominion University	Construct Systems Research & Academic Building	17678	Construction
229	Virginia Tech Extension Service	Construct Human and Agricultural Bioscience Building I	17681	Construction
236	Virginia Commonwealth University	Construct General Classroom Building	17682	Construction
242	Christopher Newport University	Construct Integrated Science Center (Phase I & II)	17484	Construction



Chapter 890, 2011, Status List

Chapter 890 Construction Pool (continued)

Agency #	Agency Name	Project Name	Project Number	Status
242	Christopher Newport University	Construct Luter School of Business	17691	Construction
246	University of Virginia at Wise	Construct Library	17806	Construction
247	George Mason University	GMU - Construct Potomac Science Center 3 - PPEA	17634	Construction
247	George Mason University	Construct Campus Library Addition, Phase I	17695	Construction
247	George Mason University	Renovate Fine Arts Building	17697	Construction
260	Virginia Community College System	Construct Learning Resources Building, Southside Virginia Community College	17705	Construction
260	Virginia Community College System	Expand Brault Building, Northern Virginia Community College	17711	Construction
260	Virginia Community College System	Replace Tyler Academic Building, Northern Virginia Community College	17720	Construction
260	Virginia Community College System	VCCS - Construct Workforce Training Center, Woodbridge Campus, Northern Virginia Community College	17802	Construction
425	Jamestown-Yorktown Foundation	JYF - Construct Yorktown Museum	17626	Construction
211	Virginia Military Institute	Renovate Post Hospital	17803	Complete



Chapter 3, 2012

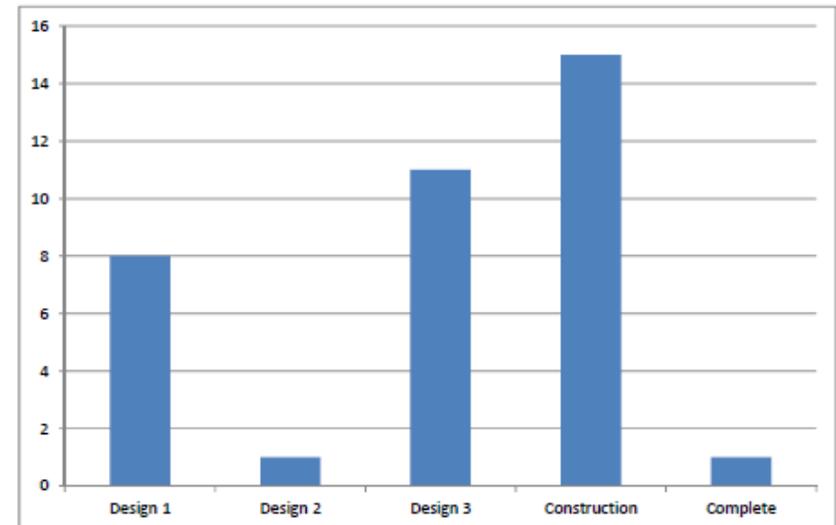
Pool	Year (July)	\$ (M)	Current # of projects in pool	% of projects with detailed planning auth before project is added to construction pool	% of projects with preliminary design review complete	% of projects authorized for construction contract award	% of projects complete	Projected \$ Savings from cost reviews (\$M)	Comments
Chapter 3	2012	\$120	36	5%	75%	44%	3%	\$2.4	Accelerating construction costs reducing projected savings (was ~\$5M as of 6/30/14)



Chapter 3, 2012, Status Summary

PROGRESS - CH. 3 CONSTRUCTION POOL (36 PROJECTS)

Design 1	8
Design 2	1
Design 3	11
Construction	15
Complete	1





Chapter 3, 2012, Status List

Agency #	Agency Name	Project Name	Project Number	Status
191	Workers Compensation Commission	Acquire New Headquarters	18031	Design 1
199	Department of Conservation & Recreation	Repairs and Upgrades to State Park Owned Dams	17587	Design 1
203	Woodrow Wilson Rehabilitation Center	Roof Replacement - Birdsall -Hoover Medical Administration Building 805	18027	Design 1
203	Woodrow Wilson Rehabilitation Center	Asbestos Abatement, Phase 4 of 4	18028	Design 1
204	College of William & Mary	Improve Lake Matoaka Dam Spillway	18003	Design 1
204	College of William & Mary	Improve Campus Storm Water Infrastructure	18004	Design 1
247	George Mason University	Hylton Center	18011	Design 1
912	Department of Veteran's Services	War Memorial - Office and Parking Garage	18010	Design 1
214	Longwood University	Additional Biomass Boiler	18016	Design 2
204	College of William & Mary	Improve Accessibility Infrastructure	18002	Design 3
216	James Madison University	Replace Boiler & Infrastructure - Phase 2	18012	Design 3
218	Virginia School for the Deaf and Blind	Install sprinklers in Byrd Hall (18025)	16453	Design 3
218	Virginia School for the Deaf and Blind	Improve Campus Security, ADA and other Regulatory Compliance	18024	Design 3
246	University of Virginia at Wise	Dam Safety Modifications	18022	Design 3
425	Jamestown Yorktown Foundation	Yorktown Outside Areas, Signage & Amenities	17977	Design 3
702	Department of Blind and Vision Impaired	Improvements: Replace Roof on Library Resource Center	18006	Design 3
799	Department of Corrections	Roofs Keen Mountain	18009	Design 3
799	Department of Corrections	Replace Plumbing Systems at Baskerville	18032	Design 3
799	Department of Corrections	Roofs Lawrenceville	18033-001	Design 3
799	Department of Corrections	HVAC Lawrenceville	18033-002	Design 3
194	Department of General Services	Capital Projects Space Improvement Budget - Dept. of Conservation and Recreation	18007	Construction



Chapter 3, 2012, Status List

Chapter 3 Construction Pool (continued)

Agency #	Agency Name	Project Name	Project Number	Status
194	Department of General Services	Monroe Exterior Repairs and Jefferson Building Window Replacement	18008	Construction
203	Woodrow Wilson Rehabilitation Center	Implement ADA Compliance Measures - Campus Wide	18029	Construction
204	College of William & Mary	Renovate the Brafferton and Brafferton Kitchen	18001	Construction
204	College of William & Mary	Construct Cooling Plant and Replace Utilities, Phase IV	18005	Construction
208	Virginia Tech	Address Fire Alarm Systems and Access	18026	Construction
214	Longwood University	Replace Willett Hall HVAC	18017	Construction
215	University of Mary Washington	Improve Stormwater Management	18021	Construction
216	James Madison University	Renovate West Wing (Supplement)	17674	Construction
216	James Madison University	Newman Lake Dam Repair	18013	Construction
221	Old Dominion University	Replace Mechanical Systems in the Oceanography and Physics Building	18018	Construction
238	Virginia Museum of Vine Arts	Replace roof 1985 addition	18023	Construction
241	Richard Bland College	Umbrella Maintenance Project	18019	Construction
425	Jamestown Yorktown Foundation	Construct Jamestown Road Wall and Sound Buffer	18015	Construction
935	Roanoke Higher Education Authority	Waterproof Building	18020	Construction
194	Department of General Services	Renovate Consolidated Labs	18030	Complete



Chapter 806, 2013

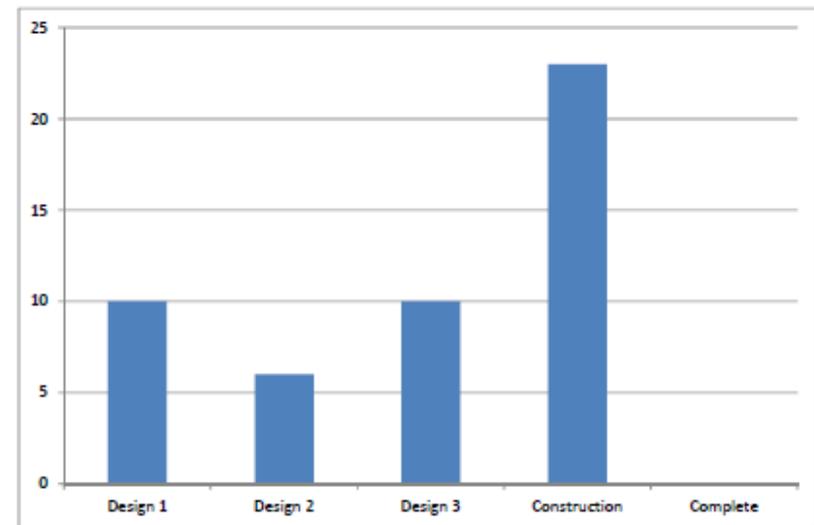
Pool	Year (July)	\$ (M)	Current # of projects in pool	% of projects with detailed planning auth before project is added to construction pool	% of projects with preliminary design review complete	% of projects authorized for construction contract award	Projected \$ Savings from cost reviews (\$M)	Comments
Chapter 806	2013	\$877.5 + \$4.8 (caboose) =\$882.3	49	67%	67%	47%	Prior pool savings required to complete this pool.	Recent trend of accelerating construction costs: Total 806 Pool forecast is \$981M vs. \$980M limit (\$1M over) incl. \$98M reserve. Current approved 806 is \$754M vs \$750/848M limits



Chapter 806, 2013, Status Summary

PROGRESS - CH. 806 CONSTRUCTION POOL (49 PROJECTS)

Design 1	10
Design 2	6
Design 3	10
Construction	23
Complete	0

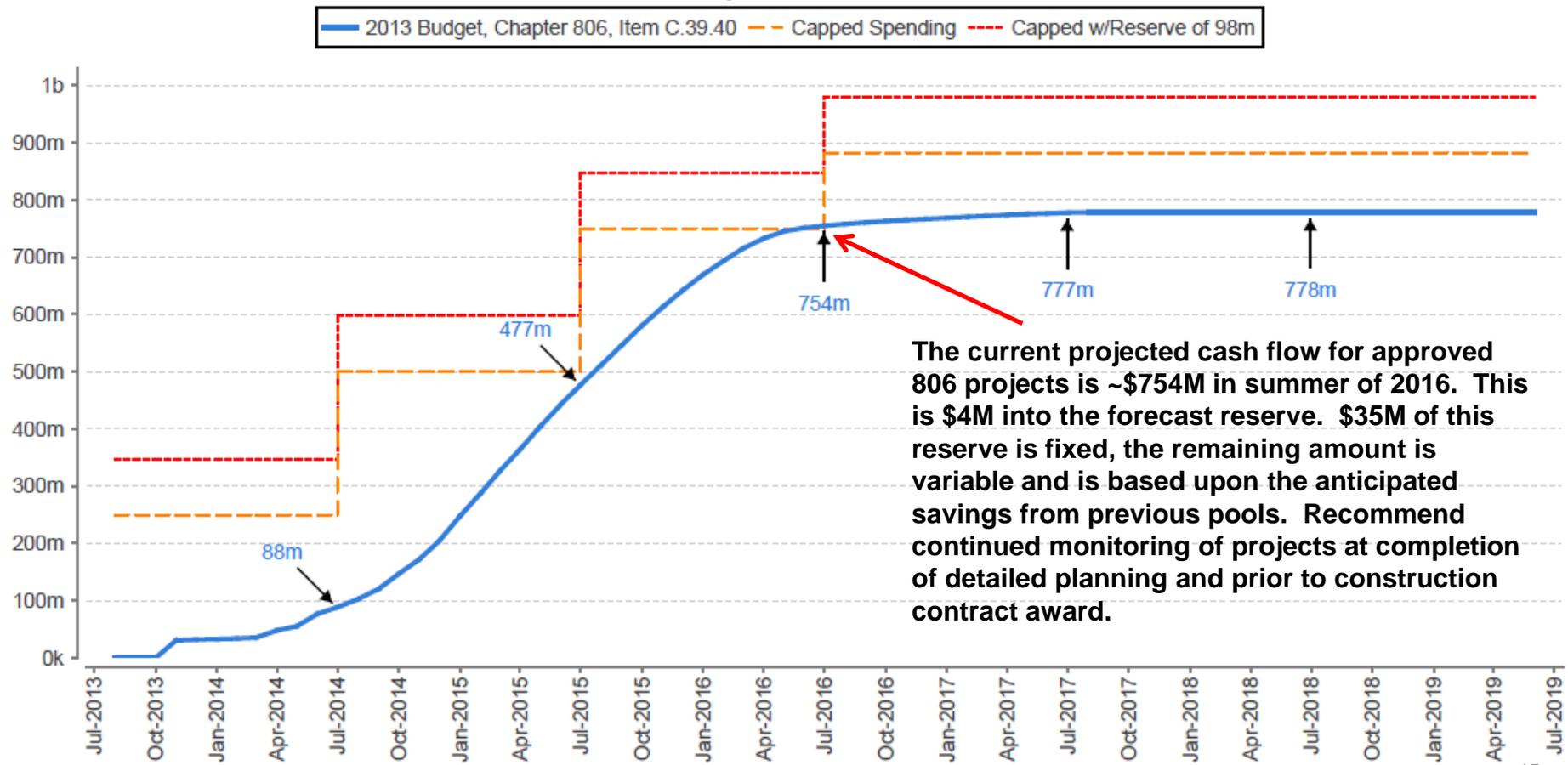




Chapter 806, APPROVED Projects as of 12/31/14

2013 Budget, Chapter 806, Item C.39.40

Estimated Fund Expenditure Versus Fund Limits



The current projected cash flow for approved 806 projects is ~\$754M in summer of 2016. This is \$4M into the forecast reserve. \$35M of this reserve is fixed, the remaining amount is variable and is based upon the anticipated savings from previous pools. Recommend continued monitoring of projects at completion of detailed planning and prior to construction contract award.



Chapter 806, 2013, Projects Approved as of 12/31/14

(includes those authorized for planning only; if a project is not listed below, assume status = “design1 or design 2”)

Agency	Project #	Project	Status	Design Start	Construction Start	Construction End
Department of Conservation and Recreation	199-18056	Widewater State Park, Phase IA- Planning Adv. from Const. Pool	Design 1	10/20/13	03/15/15	03/15/16
Virginia Commonwealth University	236-18060	Replacement Facility for the Virginia Treatment Center for Children- Planning Adv. from Const. Pool	Design 1	09/15/13	01/01/15	07/01/16
Virginia Museum of Fine Arts	238-18061	Renovate Robinson House- Planning Adv. from Const. Pool	Design 1	08/13/13	05/01/15	03/01/16
VCCS	260-18042	DCC - Expand Workforce Development Center - Planning Adv. from Const. Pool	Design 1	10/13/13	05/15/15	11/15/16
Virginia Community College System	260-18062	LFCC- Fauquier- Renovate Sowder Hall- Planning Adv. from Const. Pool	Design 1	10/13/13	02/01/15	10/01/15
Virginia Department of Corrections	799-18063-002	Richmond P&P Office - Design and Renovation	Design 1	02/01/14	02/01/15	12/01/15
The Science Museum of Virginia	17974-000	CONSTRUCT EVENT SPACE AND UPGRADE MUSEUM EXHIBITS - DETAILED PLANNING	Design 3	03/07/13	03/01/15	10/01/16
Department of Conservation & Recreation	199-18057	New Cabins - Various State Parks	Design 3	01/28/14	03/15/15	03/15/16
College of William & Mary	204-17994	Renovate Tyler Hall	Design 3	10/01/12	09/29/14	05/29/16
Virginia Polytechnic Institute and State University	208-17995	Classroom Building	Design 3	07/01/12	12/08/14	07/08/16
Department of State Police	156-18054-005	Area 14, 16 and 26	Design 3	09/01/14	03/01/15	07/01/15
Department of Conservation & Recreation	199-17589-003	Phase I Development, Powhatan State Park	Design 3	09/13/13	03/01/15	01/01/16
Virginia State University	212-17980-001	Erosion and Sediment Control	Design 3	12/01/12	04/16/15	04/16/16
Virginia State University	212-18059-002	Water Storage Tank & Campus Water Distribution Piping	Design 3	04/07/14	09/30/14	03/30/15
Old Dominion University	221-17875-001	New Education Building	Design 3	11/14/11	10/28/14	08/28/16
Old Dominion University	221-17875-002	New Ed Building - Child Study Center	Design 3	12/07/11	01/05/15	09/05/16
George Mason University	247-17999-000	Academic VII / Research II	Design 3	10/19/12	06/01/15	06/01/17
Department of State Police	156-18054-002	Area Offices 14, 16 and 26	Complete	07/03/14	09/30/14	11/30/14
Department of State Police	156-18054-003	Area Offices 14, 16 and 26	Complete	11/13/13	09/30/14	11/30/14
Department of General Services	194-17091	Renovation of the 9th Street Office Building	Construction	09/12/12	03/12/14	06/12/16
University of Mary Washington	215-17983	Renovate Mercer and Woodard Halls	Construction	08/29/12	02/19/14	01/19/16



Chapter 806, 2013, Projects Approved as of 12/31/14

(includes those authorized for planning only; if a project is not listed below, assume status = “design 1 or design 2”)

Agency	Project #	Project	Status	Design Start	Construction Start	Construction End
James Madison University	216-17997	Construct Health & Engineering Center	Construction	01/17/13	04/07/14	07/07/16
Radford University	217-17984	New Academic Facility	Construction	08/01/12	07/16/14	07/16/16
Christopher Newport University	242-17872	Student Success Center	Construction	07/11/11	01/13/14	07/13/15
Department of Behavioral Health & Developmental Services	720-17276	Western State Hospital (Supplemental)	Construction	05/01/14	05/14/14	06/14/14
Virginia Department of Forensic Science	778-17978	Expand Western Forensic Lab & Office of Chief Medical Examiner Facility	Construction	07/01/12	03/12/14	05/12/16
Library of Virginia	202-18058-000	State Library Improvements: For Storage, Security & IT	Construction	08/13/13	04/04/14	06/04/15
Woodrow Wilson Rehabilitation Center	203-17976-000	Renovate Anderson Vocational Training Building, Phase 1	Construction	08/15/12	01/12/15	06/12/16
University of Virginia	207-17915-002	Renovate the Rotunda	Construction	12/23/13	09/30/14	03/30/16
Virginia Military Institute	211-17996-001	Construct Corps Physical Training Facilities- Construct Phase I	Construction	10/03/12	05/12/14	10/12/16
Virginia Military Institute	211-17996-002	Construct Corps Physical Training Facilities- Phase II	Construction	05/01/12	05/28/14	09/28/16
Virginia State University	212-17511-000	Renovate Lockett Hall	Construction	12/01/12	11/18/14	01/18/16
Virginia State University	212-17980-002	Erosion and Sediment Control	Construction	12/01/12	07/02/14	10/02/15
Norfolk State University	213-17981-000	Replace Brown Hall	Construction	11/12/12	01/30/15	07/30/17
VCU Construction Management	236-17998-000	Construct & Renovate Information Commons & Libraries (EP# 935936)	Construction	08/23/12	04/01/14	01/01/16
Richard Bland College	241-17985-000	Renovate Ernst Hall	Construction	05/13/13	08/21/14	07/21/15
George Mason University	247-18043-000	Expand the Central Utility Plant	Construction	07/24/13	01/30/15	11/30/15
Lord Fairfax Community College	260-17986-000	LFCC-M - Renovate Main Hall, Middletown Campus	Construction	12/21/12	12/18/14	06/18/16
Blue Ridge Community College	260-17987-000	BRCC - Construct New Classroom & Administration Bldg	Construction	12/21/12	10/31/14	04/30/16
Tidewater Community College	260-17990-000	TCC - Renovate Bayside Building, Virginia Beach	Construction	02/22/13	05/19/14	06/19/15

*Includes GMU-Academic VII (17999) as Design 3. The project has a completed Prelim Cost Review and a CO-2 was processed by BCOM, but GMU withdrew CO-2 at DPB request.



Chapter 806, 2013, Projects Approved as of 12/31/14

(includes those authorized for planning only; if a project is not listed below, assume status = “design 1 or design 2”)

Agency	Project #	Project	Status	Design Start	Construction Start	Construction End
John Tyler Community College	260-17992-000	JTCC-M - Construct Phase III Academic Building	Construction	03/13/13	04/14/14	06/14/15
Virginia Department of Corrections	799-17913-000	Construct James River Water Line	Construction	11/17/11	07/14/14	03/14/15
Virginia Department of Corrections	799-18063-001	Richmond P&P Office - Acquisition	Construction	02/01/14	02/01/15	04/01/15
Virginia State University	212-18059-001	Water Storage Tank & Campus Water Distribution Piping	Construction	04/07/14	06/01/14	12/01/15

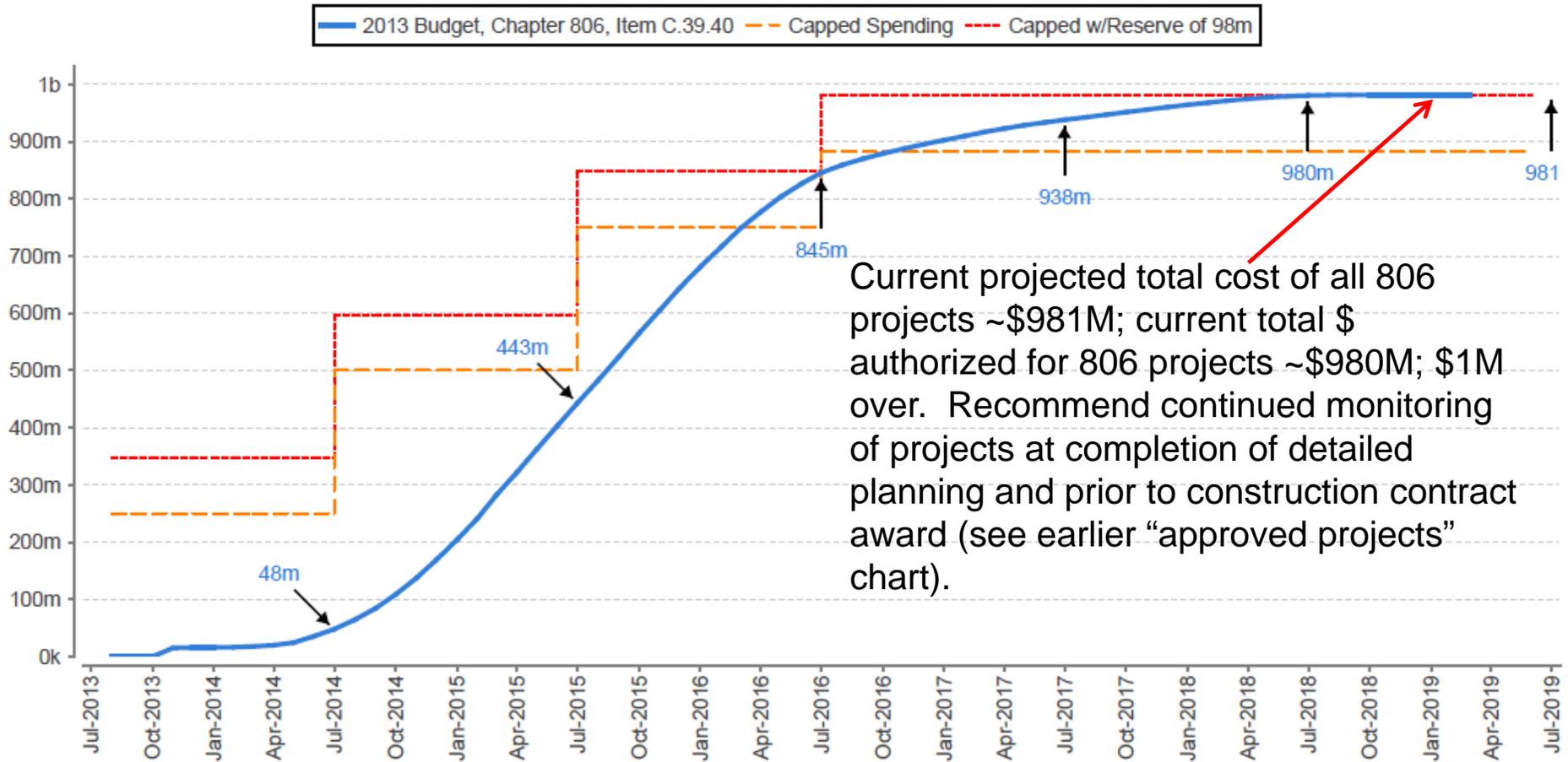
*Includes GMU-Academic VII (17999) as Design 3. The project has a completed Prelim Cost Review and a CO-2 was processed by BCOM, but GMU withdrew CO-2 at DPB request.



Chapter 806, PROJECTION for ALL projects (12/31/2014)

2013 Budget, Chapter 806, Item C.39.40

Estimated Fund Expenditure Versus Fund Limits



Current projected total cost of all 806 projects ~\$981M; current total \$ authorized for 806 projects ~\$980M; \$1M over. Recommend continued monitoring of projects at completion of detailed planning and prior to construction contract award (see earlier "approved projects" chart).

Assumptions: Detailed planning amounts reimbursed at the first allocation of Chapter 806 debt. Spend order: Chapter 806 debt, all other debt, agency funds



Chapter 1, 2014, (Caboose)

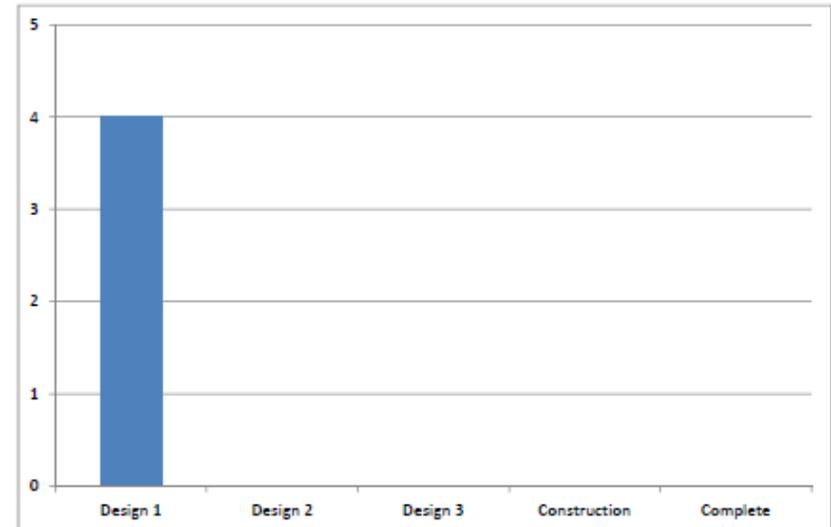
Pool	Year (July)	\$ (M)	Current # of projects in pool	% of projects with detailed planning auth before project is added to construction pool	% of projects with preliminary design review complete	% of projects authorized for construction contract award*	% of projects complete	Projected \$ Savings from cost reviews (\$M)	Comments
Chapter 1 (Caboose)	2014	\$300	4	0%	0%	0%	0%	\$0	Capitol Complex Infrastructure & Security Projects on hold.



Chapter 1, 2014, (Caboose), Status Summary

PROGRESS - CH. 1 (caboose) CONSTRUCTION POOL (4 PROJECTS)

Design 1	4
Design 2	0
Design 3	0
Construction	0
Complete	0





Chapter 1, 2014, (Caboose) Status List

Chapter 1 (caboose) Construction Pool

Agency #	Agency Name	Project Name	Project Number	Status
194	DGS	Capitol Complex Infrastructure and Security - New Construction of General Assembly Building	18081-001	Design 1
194	DGS	Capitol Complex Infrastructure and Security -New Construction of Parking Structure	18081-002	Design 1
194	DGS	Capitol Complex Infrastructure and Security -Renovation of Old City Hall	18081-003	Design 1
194	DGS	Capitol Complex Infrastructure and Security -Relocation of Tenants	18181-004	Design 1



Chapter 2, 2014

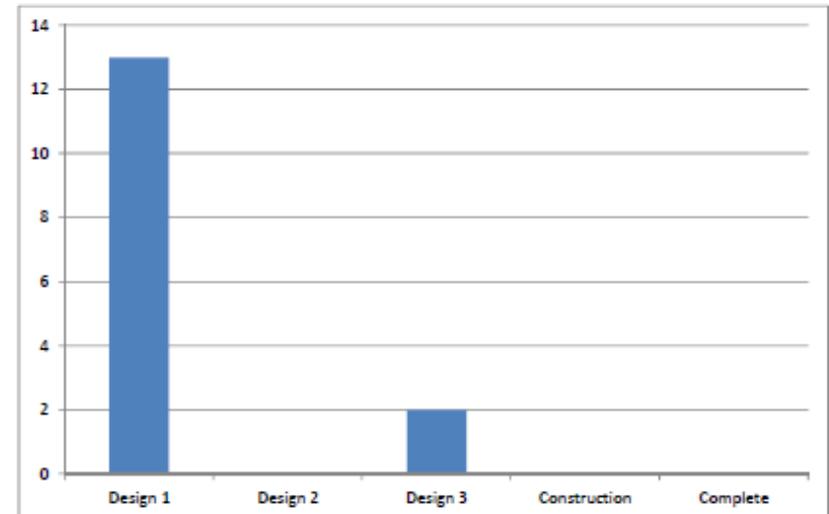
Pool	Year (July)	\$ (M)	Current # of projects in pool	% of projects with detailed planning auth before project is added to construction pool	% of projects with preliminary design review complete	% of projects authorized for construction contract award	% of projects complete	Projected \$ Savings from cost reviews (\$M)	Comments
Chapter 2	2014	\$55	15	7%	13%	0%	0%	(\$15)	Initially underfunded



Chapter 2, Status Summary

PROGRESS - CH. 2 CONSTRUCTION POOL (15 PROJECTS)

Design 1	13
Design 2	0
Design 3	2
Construction	0
Complete	0





Chapter 2 Status List

Chapter 2 Construction Pool

Agency Name	Project Name	Project Number	Status
Department of Military Affairs	Renovate Waller Depot Complex	18124	Design 1
Department of General Services	Replace Roof on DGS Westmoreland Plaza Building	18149	Design 1
University of Virginia	Renovate Research Labs	18150	Design 1
Virginia Museum of Fine Arts	Renovate/Expand Faberge Gallery	17939	Design 1
Department of Forestry	Construct Garages for Fire Dozers and Transports	18151	Design 1
Gunston Hall	Renovate Ann Mason Visitor Center & Adjacent Bldgs	18123	Design 1
Department of Behavioral Health and Developmental Services	Abate Environmental Hazards	18152	Design 1
Department of Behavioral Health and Developmental Services	Replace Facility Roofs and Building Envelopes	18153	Design 1
Department of Corrections	Upgrade Operational and Security Systems - Keen Mountain	18154	Design 1
Department of Corrections	Replace and Enhance Security Controls and Surveillance Systems - Sussex I and II	18155	Design 1
Department of Corrections	Replace Fire Alarm Systems	18156	Design 1
Department of Corrections	Replace James River Storage Tank on River Road	18157	Design 1
Roanoke Higher Education Authority	Renovate/Expand Claude Moore Building	18158	Design 1
Department of State Police	Rehabilitate or Replace South Hill and Emporia Area Offices	18147	Design 3
Department of General Services	Make Critical Repairs and Improvements to Consolidated Lab	18148	Design 3



Executive Summary, Planning Pools Status

(as of December 31, 2014)

Pool	Year (July 1)	# projects authorized for preplanning	# of projects with submitted CO-2 for preplanning	# of projects with approved CO-2 for preplanning	# projects authorized for detailed planning	# of projects with submitted CO-2s for detailed planning	# of projects with approved CO-2 for detailed planning
Chapter 806	2013	10	8	8	16	12	11
Chapter 2	2014	2	0	0	10	6	0