

ARCHITECTURE & ENGINEERING DIVISION

RUSS KATHERMAN ADMINISTRATOR

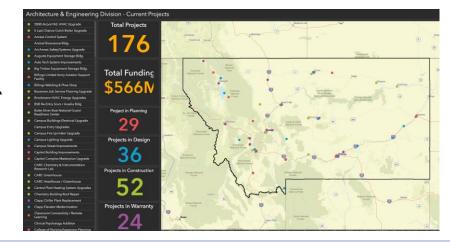
406-444-3332 <u>rkatherman@mt.gov</u> <u>architecture.mt.gov</u>

January 2023

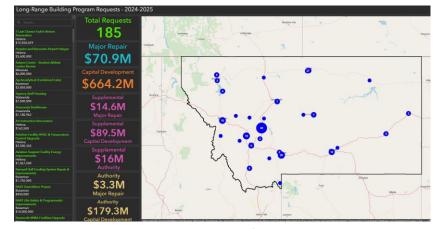
INTERACTIVE MAPS & FCAs

Interactive Project Mapping @ architecture.mt.gov

Active Projects

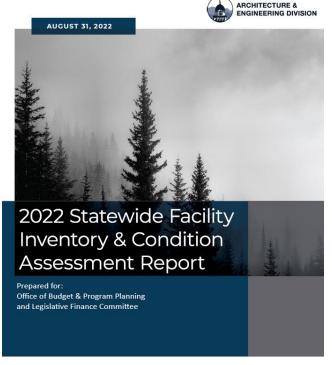


Proposed Projects



Facility Condition Assessments







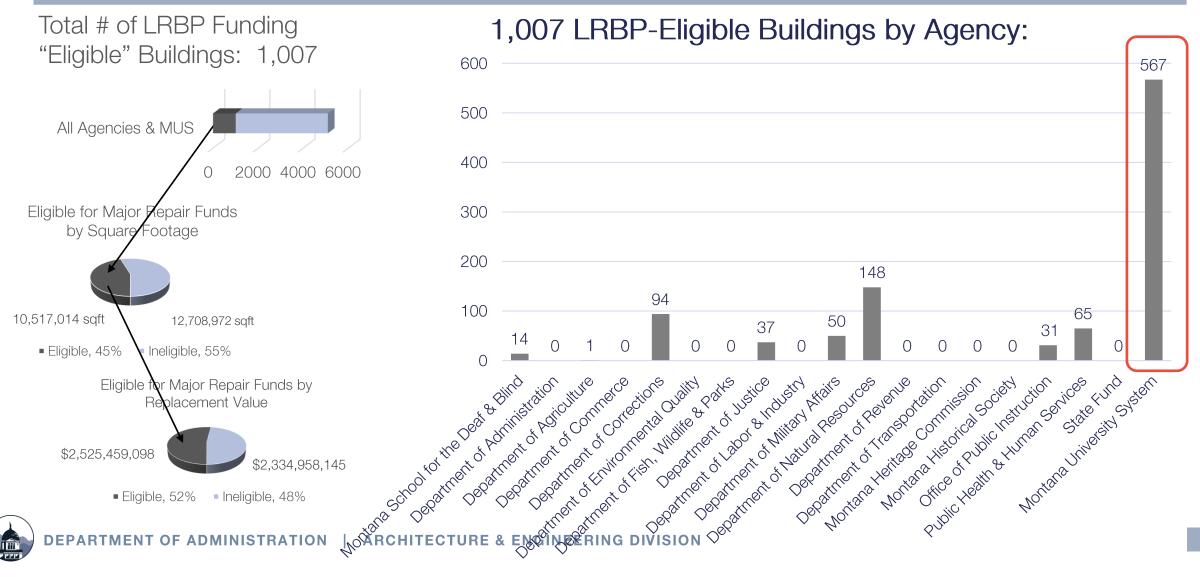


TOTAL STATEWIDE INVENTORY

		ALL BUILDINGS			MAJOR REPAIR ACCOUNT FUNDING LRBP-ELIGIBLE BUILDINGS		FACILITY ASSESSMENT REQUIRED BUILDINGS > \$150,000		
AGENCY	BLDGS	AREA	CRV	BLDGS	AREA	CRV	BLDGS	AREA	CRV
Montana School for the Deaf & Blind	14	165,423	\$26,175,778	14	165,243	\$26,175,778	9	164,537	\$26,152,692
Department of Administration	52	1,231,431	\$395,768,630	0			0		
Department of Agriculture	1	7,888	\$658,180	1	7,888	\$658,180	1	7,888	\$658,180
Department of Commerce	6	160,576	\$36,391,647	0			0		
Department of Corrections	138	1,164,289	\$247,246,806	94	930,716	\$225,541,711	53	880,229	\$223,592,811
Department of Environmental Quality	55	372,972	\$3,625,562	0			0		
Department of Fish, Wildlife & Parks	1,297	898,051	\$98,455,898	0			0		
Department of Justice	83	286,557	\$43,617,300	37	275,961	\$39,141,525	28	263,721	\$38,697,740
Department of Labor & Industry	13	85,516	\$12,650,047	0			0		
Department of Military Affairs	76	710,528	\$137,202,444	50	626,432	\$130,039,378	33	621,904	\$129,828,151
Department of Natural Resources	179	303,581	\$39,843,399	148	246,395	\$22,650,245	37	158,958	\$18,949,475
Department of Revenue	1	108,258	\$8,674,248	0			0		
Department of Transportation	1,510	1,973,803	\$247,734,468	0			0		
Montana Heritage Commission	253	193,888	\$38,959,167	0			0		
Montana Historical Society	2	12,839	\$6,940,564	0			0		
Office of Public Instruction	31	27,312	\$757,411	31	27,312	\$757,411	0		
Public Health & Human Services	85	673,820	\$148,734,583	65	453,941	\$87,812,957	29	407,985	\$85,732,426
State Fund	1	117,203	\$35,576,757	0			0		
Montana State University	757	8,228,678	\$1,836,377,241	413	4,310,282	\$1,082,020,800	210	4,168,071	\$1,074,204,311
University of Montana	540	6,503,373	\$1,495,027,111	154	3,472,664	\$910,661,113	104	3,431,678	\$907,892,256
TOTALS:	5,094	23,225,986	\$4,860,417,243	1007	10,516,834	\$2,525,459,098	504	10,104,971	\$2,505,708,043

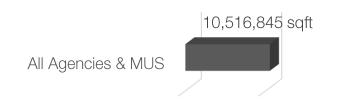


LRBP-Eligible Inventory for Major Repair \$

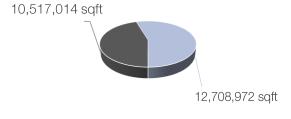


LRBP-Eligible Inventory for Major Repair \$

Square Feet of LRBP-Eligible Buildings:

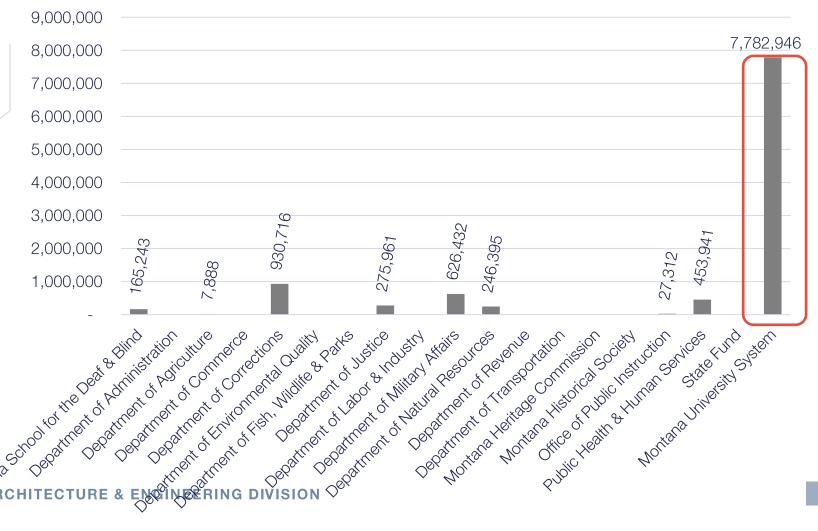


Eligible for Major Repair Funds by Square Footage



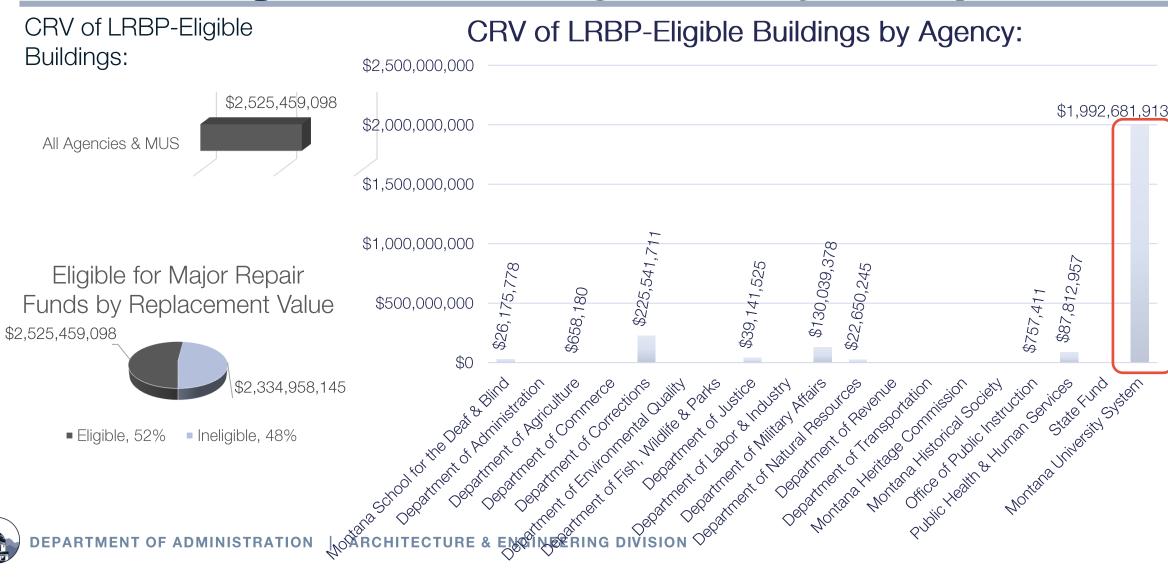
■ Eligible, 45% ■ Ineligible, 55%

Sqft of LRBP-Eligible Buildings by Agency:





LRBP-Eligible Inventory for Major Repair \$

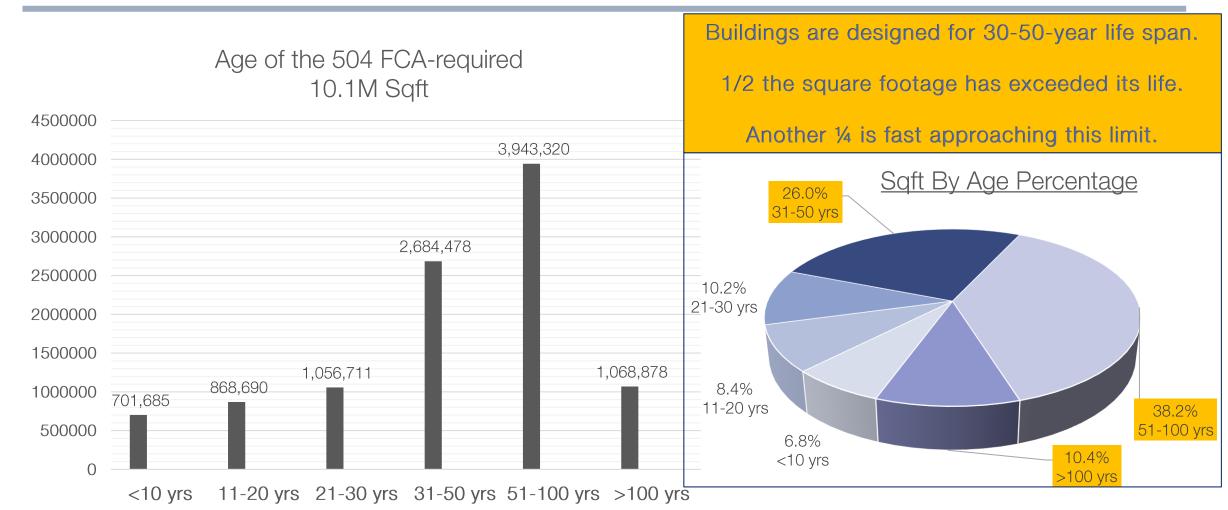


TOTAL STATEWIDE INVENTORY

		ALL BUILDINGS			MAJOR REPAIR ACCOUNT FUNDING LRBP-ELIGIBLE BUILDINGS			FACILITY ASSESSMENT REQUIRED BUILDINGS > \$150,000		
AGENCY	BLDGS	AREA	CRV	BLDGS	AREA	CRV	BLDGS	AREA	CRV	
Montana School for the Deaf & Blind	14	165,423	\$26,175,778	14	165,243	\$26,175,778	9	164,537	\$26,152,692	
Department of Administration	52	1,231,431	\$395,768,630	0			0			
Department of Agriculture	1	7,888	\$658,180	1	7,888	\$658,180	1	7,888	\$658,180	
Department of Commerce	6	160,576	\$36,391,647	0			0			
Department of Corrections	138	1,164,289	\$247,246,806	94	930,716	\$225,541,711	53	880,229	\$223,592,811	
Department of Environmental Quality	55	372,972	\$3,625,562	0			0			
Department of Fish, Wildlife & Parks	1,297	898,051	\$98,455,898	0			0			
Department of Justice	83	286,557	\$43,617,300	37	275,961	\$39,141,525	28	263,721	\$38,697,740	
Department of Labor & Industry	13	85,516	\$12,650,047	0			0			
Department of Military Affairs	76	710,528	\$137,202,444	50	626,432	\$130,039,378	33	621,904	\$129,828,151	
Department of Natural Resources	179	303,581	\$39,843,399	148	246,395	\$22,650,245	37	158,958	\$18,949,475	
Department of Revenue	1	108,258	\$8,674,248	0			0			
Department of Transportation	1,510	1,973,803	\$247,734,468	0			0			
Montana Heritage Commission	253	193,888	\$38,959,167	0			0			
Montana Historical Society	2	12,839	\$6,940,564	0			0			
Office of Public Instruction	31	27,312	\$757,411	31	27,312	\$757,411	0			
Public Health & Human Services	85	673,820	\$148,734,583	65	453,941	\$87,812,957	29	407,985	\$85,732,426	
State Fund	1	117,203	\$35,576,757	0			0			
Montana State University	757	8,228,678	\$1,836,377,241	413	4,310,282	\$1,082,020,800	210	4,168,071	\$1,074,204,311	
University of Montana	540	6,503,373	\$1,495,027,111	154	3,472,664	\$910,661,113	104	3,431,678	\$907,892,25	
TOTALS:	5,094	23,225,986	\$4,860,417,243	1007	10,516,834	\$2,525,459,098	504	10,104,971	\$2,505,708,043	



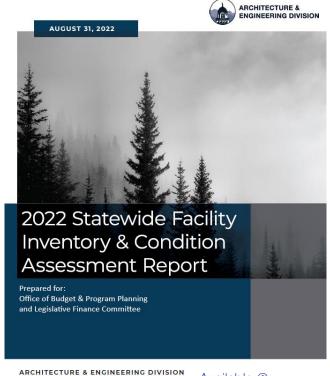
Aging 504 FCA MR LRBP-Eligible Inventory:



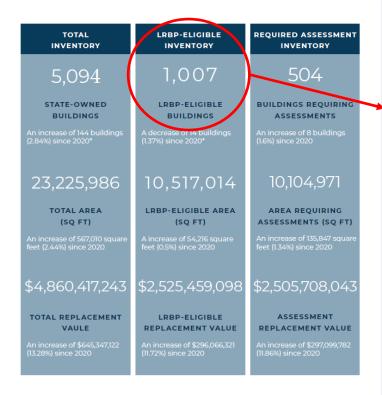


FCA & the Long-Range Building Program

Facility Condition Assessments, 17-7-202 MCA



Available @ architecture.mt.gov



Major Repair Minimum Funding

\$30,305,509

Total Deferred Maintenace Backlog \$1,473,603,270

Number of Buildings Requiring Assessments:

504

Number of Buildings Assessed:

299

Area of Buildings Requiring Assessments:

10,104,971 SQ FT

Area Assessed: 7,115,906 SQ FT Deferred Maintenance is a debt/liability that accumulates over time due to a lack of regular and timely funding of major repairs, replacements, upgrades or renovations.

Solutions:

- Continue funding Major Repairs at a substantial level over time; and,
- Fund major renovations and new Capital Development projects on a consistent basis



Here's Where DOA/A&E Started:



Total 2025 Biennium Requests Received, July 2022

Project Type	Major Repair	Capital Development	State Special Revenue	Federal Special Revenue	Authority Only	Totals	# of Project Types
SUPPLEMENTAL MR	\$11,650,861	\$11,650,861	\$2,907,039			\$14,557,900	17
SUPPLEMENTAL CD		\$61,525,656	\$30,615,350	\$9,751,180		\$101,892,186	23
SUPPLEMENTAL AO					\$16,000,000	\$16,000,000	3
MAJOR REPAIR	\$140,729,157			\$9,794,956	\$1,800,000	\$152,324,113	147
MAJOR REPAIR CLG			\$3,221,021			\$3,221,021	5
Capital Land Grant			\$23,042,853			\$23,042,853	16
CAPITAL DEVELOPMENT		\$1,271,149,898	\$76,699,830	\$44,396,615	\$29,000,000	\$1,421,246,743	62
FWP			\$32,291,904	\$20,064,742	\$1,333,234	\$53,689,880	15
AUTHORITY					\$14,200,000	\$14,200,000	2
AUTHORITY CD					\$204,290,000	\$204,290,000	11
AUTHORITY MR					\$3,995,000	\$3,995,000	4
							<u> </u>
TOTAL REQUESTS:	\$152,380,018	\$1,344,326,415	\$168,777,997	\$84,007,493	\$270,618,234	\$2,008,459,696	305
							J



How The LRBP Comes Together:



- Project Prioritization Methodology:
 - Step #1 Categorized By Statute Definition, 17-7-201 MCA
 - Step #2 Segregated By Agency
 - Step #3 Itemized by Fund Type

MAJOR REPAIR -

- Renovation, alteration, replacement, or repair project(s) with a total cost of less than \$2.5 million.
- A new facility with a total construction cost of <u>less</u> than \$250,000.

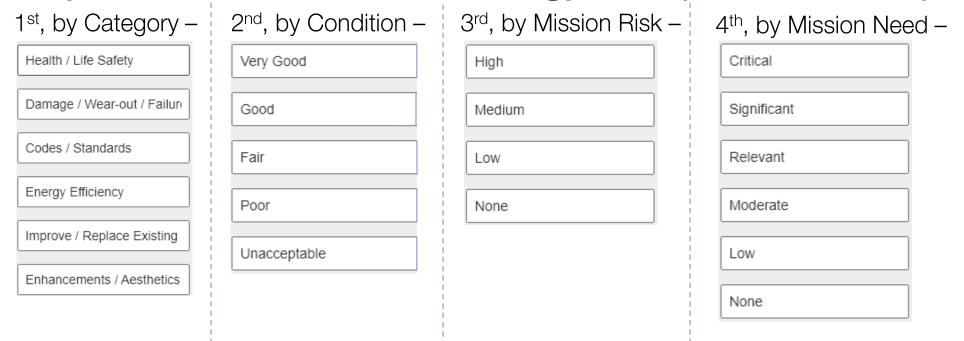
CAPITAL DEVELOPMENT -

- Renovation, construction, alteration, replacement, or repair project(s) with a total cost of <u>more</u> than \$2.5 million.
- A new facility with a total construction cost of <u>more</u> than \$250,000.



How The LRBP Is Assembled (cont'd)

Project Prioritization Methodology – Step #4 has four parts



^{*} Applies to existing buildings and infrastructure; larger major repair projects and new capital facilities may have other programmatic drivers and are identified in the Capital Development listing



How The LRBP Is Assembled (cont'd)



1st, by Category –

HEALTH/LIFE SAFETY Conditions that pose an immediate or impending danger to life, limb, personal health, or property if not corrected.

DAMAGE/WEAR-OUT / FAILURE Replacement of components that have extended beyond their life expectancy. Building elements with potential for serious damage to the building or the building components if not corrected. Failure of existing building components.

CODES/STANDARDS Building codes and/or institutional construction standards were not met during construction or

renovation, or existing conditions do no represent an urgent situation if deficient

ENERGY EFFICIENCY Upgrades to re-IMPROVE/REPLACE EXISTING Correincrease the comfort level of the buildin ENHANCEMENTS/AESTHETICS Reno

2nd, by Condition –

VERY GOOD No defect; appearance is as new. No improvements needed.

GOOD Minor improvement required. Minor system deficiencies with only marginal effect on system functions. Asset exhibits superficial wear and tear, minor defects, minor signs of deterioration to surface finishes; but does not require major maintenance; no major defects exist.

standards. Condition may or may not

FAIR Moderate improvement required. Deficiencies cause intermittent problems or affect multiple users. Uncorrected, will result in premature failure or accelerated deterioration of component or system. Asset is in average condition; deteriorated surfaces require attention; services are functional, but require attention. Backlog of maintenance work exists.

POOR Major improvement required. Critical deficiencies affecting function, health or safety. Asset is in poor condition; deteriorated surfaces require significant attention; services are functional but failing often; significant backlog maintenance work exists.

UNACCEPTABLE Complete fail 3rd, by Mission Risk — equired. Asset has deteriorated badly;

serious structural problems; gen Rate how relevant this project is to the agency's mission. (See "Provide your agency's mission statement" under the Project not performing; significant number Narrative section of the application.)

4th, by Mission Need –

Rate how important this project is to the agency's mission. (See "Provide your agency's mission statement" under the Project Narrative section of the application.)

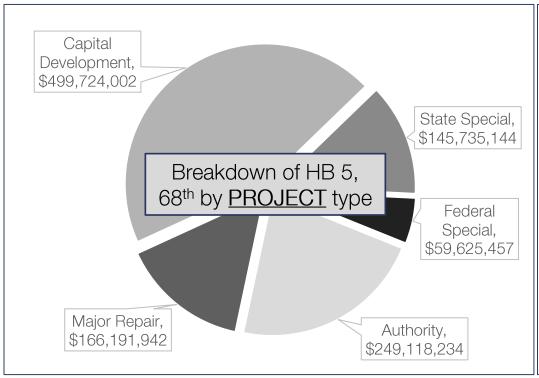


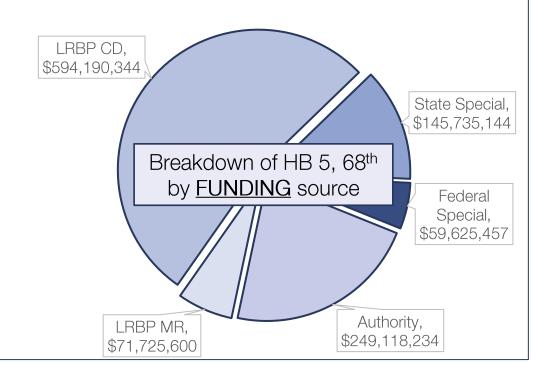
LRBP - HB 5 Breakdown



DOA/A&E LRBP responsibility for majority of HB 5 Other Agency appropriations/authorizations in HB 5

= \$1,034,755,779 = \$85,639,000Total HB 5 = \$1,120,294,779





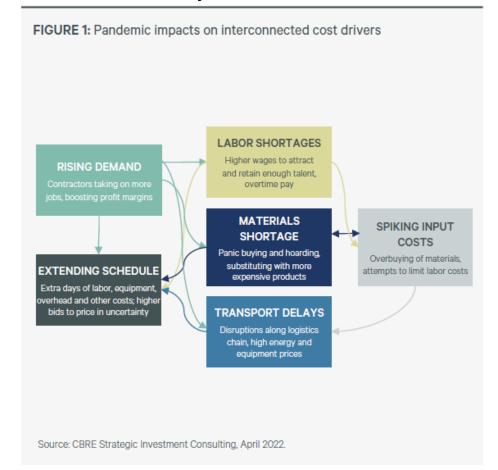


2022 National Perspectives on Inflation:

AGC Construction Inflation Alert, December 2022

"In any case, the cost of construction materials and labor does not generally move in sync with the overall economy.

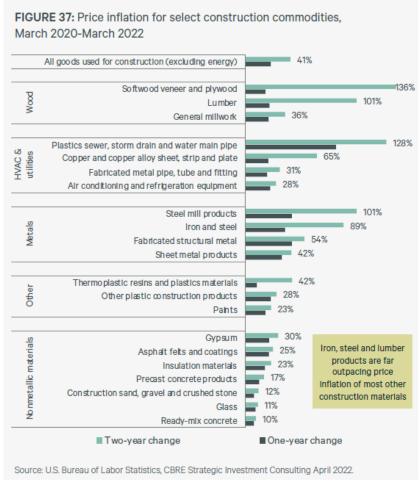
In short, owners should not assume that delaying projects will enable them to avoid volatility and disruptions in construction costs, delivery times, and labor supply, even if the economy slows significantly." CBRE Research, July 2022

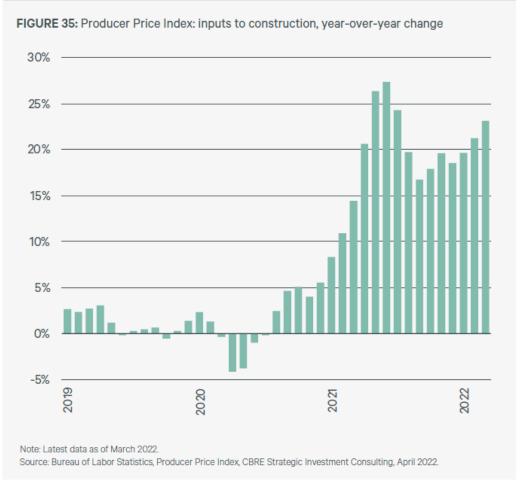




Materials Escalation











Supply Chain & Delays Escalation



FIGURE 15: Typical lead times for key materials

+40 weeks

Roofing insulation

Lead times for roofing insulation (along with other roofing materials), are currently among the longest in the entire construction industry.

+36 weeks

HVAC equipment

Lockdowns in China have significantly reduced manufacturing output for HVAC equipment, while hot weather continues to boost demand. Semiconductor shortages are also contributing to delays.

+18 weeks

Wood doors & frames

DEPARTMENT OF ADMINISTRATION

Shutdowns and strained labor pools in manufacturing and shipping have lead to a major backlog in the supply of wood doors, as well as hardware and hollow metal door frames.

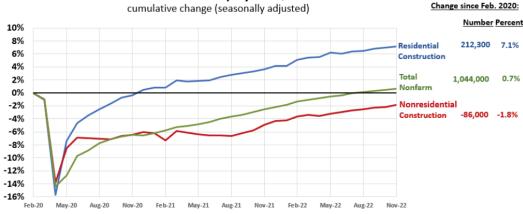
Material	Current lead time	Two-year change
Paint	2-3 weeks	+200%
Steel beams & decking	10-14 weeks	+75%
Drywall & metal studs	14-16 weeks	+600%
Lighting & controls	14-20 weeks	+100%
Wood doors & frames	18-20 weeks	+233%
Open web joists	18-30 weeks	+125%
Aluminum storefront glazing	16-32 weeks	+300%
Appliances	20-30 weeks	+400%
Electrical panels	30-40 weeks	+433%
Roofing membranes	35-45 weeks	+800%
HVAC equipment	36-50 weeks	+250%
Roofing insulation	40-50 weeks	+667%

Note: Lead times reflect aggregated information from multiple major general contracting firms and are current as of April-May 2022. Source: CBRE Econometric Advisors, CBRE Strategic Investment Consulting, April 2022.



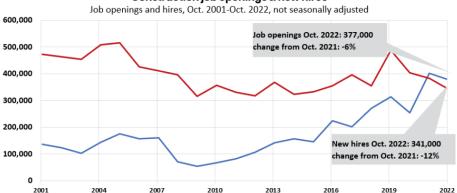
Labor Escalation



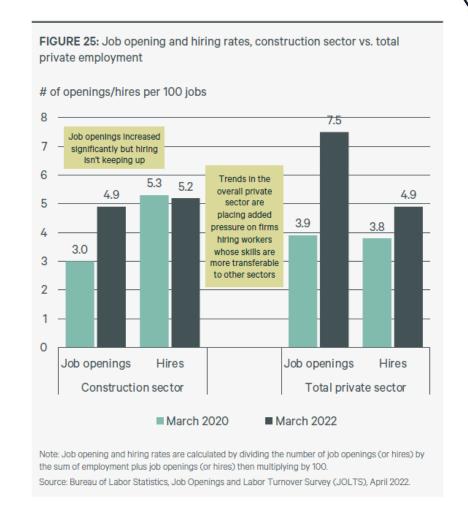


Source: BLS current employment statistics, https://www.bls.gov/ces/

Construction job openings & new hires



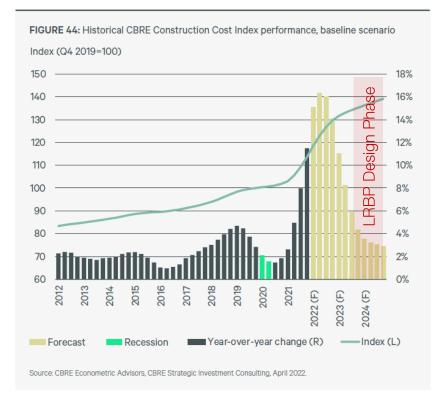
Source: Source: Bureau of Labor Statistics, www.bls.gov/jlt, JOLTS





But, the LRBP is strategically positioned





Appropriating the Governor's proposed LRBP now successfully positions LRBP projects to take advantage forecasted improvements in construction pricing.



Back To The Final LRBP Product!



LRBP Book is also available @ architecture.mt.gov



GOVERNOR'S EXECUTIVE BUDGET FISCAL YEARS 2024-2025



LONG-RANGE BUILDING PROGRAM

SUMMARY OF RECOMMENDED PROJECTS

STATEWIDE BY AGENCY 2024-2025

Agency	Major Repair	Capital Development	State Special	Federal Special	Authority Only	Total
ADMINISTRATION	100,374,487	5,908,145	3,221,021		5,000,000	114,503,653
CORRECTIONS	9,400,000	176,350,000			1,390,000	187,140,000
ENVIRONMENTAL QUALITY					3,700,000	3,700,000
FISH, WILDLIFE & PARKS			81,191,334	23,735,142	6,333,234	111,259,710
JUSTICE	3,015,000					3,015,000
LABOR & INDUSTRY	1,000,000	5,767,880				6,767,880
LIVESTOCK		2,200,000				2,200,000
MILITARY AFFAIRS	2,588,970	31,524,741		35,640,315		69,754,026
NATURAL RESOURCES & CONSERVATION	1,402,524	8,338,186				9,740,710
PUBLIC HEALTH & HUMAN SERVICES	4,325,000	134,873,000	9,907,039			149,105,039
REVENUE			14,315,750			14,315,750
SCHOOL FOR THE DEAF & BLIND	1,480,491					1,480,491
TRANSPORTATION		9,000,000	37,100,000	250,000		46,350,000
UNIVERSITY SYSTEM	42,605,470	125,762,050			232,695,000	401,062,520
TOTALS	166,191,942	499,724,002	145,735,144	59,625,457	249,118,234	1,120,394,779

MAJOR REPAIR PROJECTS TABLE F-3 SUMMARY
TABLE F-3 SUMMARY

	LRBP MR	State Special	Federal Special	Authority Only	Total
SUPPLEMENTAL MAJOR REPAIR PROJECTS	11,650,861	2,907,039			14,557,900
MAJOR REPAIR PROJECTS	60,074,739		2,028,643	1,200,000	63,303,382
DEPT. OF ADMINISTRATION		3,221,021			3,221,021
DEPT. OF MILITARY AFFAIRS			5,884,277		5,884,277
AUTHORITY ONLY				3,295,000	3,295,000
TOTAL	71,725,600	6,128,060	7,912,920	4,495,000	90,261,580

CAPITAL DEVELOPMENT PROJECTS TABLE F-5 SUMMARY

	LRBP CD	State Special	Federal Special	Authority Only	Total
SUPPLEMENTAL CAPITAL DEVELOPMENT PROJECTS	49,143,606	30,615,350	9,751,180	16,000,000	105,510,136
CAPITAL DEVELOPMENT PROJECTS	545,046,738		2,542,248	18,000,000	565,588,986
DEPT. OF TRANSPORTATION		37,100,000			37,100,000
DEPT. OF FISH, WILDLIFE & PARKS		71,891,734	22,564,742	6,333,234	100,789,710
DEPT. OF MILITARY AFFAIRS			16,854,367		16,854,367
AUTHORITY ONLY				204,290,000	204,290,000
TOTAL	594,190,344	139,607,084	51,712,537	244,623,234	1,030,133,199



How Our Presentations Are Formatted:

MR & CD INFLATION/ESCALATION

MAJOR REPAIR

CAPITAL DEVELOPMENT



EXPLAINING LRBP SUPPLEMENTALS:

- What These Are Not:
 - NOT HB 3 Supplemental Requests!
 - NOT Contractor Overruns!
 - NOT Government Obligations!
- What These Are:
 - Primarily, Inflationary Escalations to Complete Prior Session Approved Scope
 - Inflationary impacts varied by project type
 - Typically, between 25% to 50%; some >50%
 - Some Scope Adjustments
 - A Few Estimate Busts from 67th HB 5; done during late 2020 COVID lockdown
 - Combinations of the Above





Now, for HB 5 & the Montana University System Project Proposals . . .