

**Detroit Observatory and Addition
Funding and Naming Opportunities**

Phase 1 priorities (for the re-opening in 2021) marked with ***

	ITEM	ESTIMATED COST
	Rooms and Spaces	
	1. In the addition:	
	a. Lobby	
	b. Grand Hall	
	c. Multipurpose/Education and Event Room	
	d. Front plaza, Observatory Street	
	2. In the original building:	
	a. Main Hall	
	b. Library (“Connable Room” currently — unless that name went elsewhere)	
	c. North patio/garden: Sculptural piece (e.g., sundial, armillary, orrery)	
***	3. Furniture and Equipment	\$160,000
***	Detroit Observatory AV/IT	
	4. Detroit Observatory Audiovisual Infrastructure for Exhibits, Demonstrations, Virtual Astronomy: Lobby video wall, info kiosk, Grand Hall touchscreen, displays in DO Library and Main Hall, video capacity in dome and on telescope, sound system (note: some of this might double-count with items below)	\$400,000
	Restorations and Enhancements of DO Facilities and Instruments	
	5. <i>Precision Astronomy Historic Restoration: Time-Setting and Star-Mapping at the Detroit Observatory</i>	
	a. Finish restoration of the Meridian Circle Telescope	\$10,000–\$18,000
	b. Functional restoration of Fauth chronograph, for demonstration purposes	\$5,000–\$7,500
	c. Sidereal time vs. solar time display: functional restoration of 20 th -century sidereal clock; fabrication or purchase of similar solar clock; side-by-side installation	\$1,500

	d. Development of digital and physical explanatory exhibits: celestial coordinates, meridian circles, time-setting.	\$15,000–\$20,000
	6. <i>Planetary and Stellar Astronomy Historic Restoration: Asteroid, Comet, and Solar Eclipse Discovery and Observation at the Detroit Observatory</i>	
	a. 1858 4" Comet Seeker Restoration	\$10,000–\$15,000
	b. The Judge Howell 19th Century 4.6" Refractor restoration	\$8,000–\$10,000
	c. Restoration/conservation of relevant additional instruments — e.g., portable sidereal clocks, field equipment, solar eclipse plates, stereoscopic slides	\$5,000
	d. Development of digital and physical explanatory exhibits	\$10,000
	7. <i>Student Astronomy Conservation and Restoration</i>	
***	a. Conservation and display of the Student Transit Telescope.	\$10,000–\$15,000
	b. Conservation of student observing logs, memoirs, diaries; researching student biographies.	\$2,000
	8. <i>Daytime Astronomy Enhancements: Building on the McMath/Hulbert Legacy in Solar Science</i>	
	a. Conservation of spectrograph	\$2,500
	b. Restoration and installation of helioscope	\$15,000
	c. Conservation, digitization and display of McMath heliokinematographs (if we can find them), heliophotographs, and related equipment	\$5,000
***	9. <i>Public Observing Program Enhancements</i>	
	a. Fitz telescope enhancements: addition of removable Vernier circles to the RA axis; fabrication of improved mount for the finder scope; fabrication of rack-and-pinion focuser; tube modifications.	\$10,000–\$12,000
	b. Solar filter (white light) for Fitz refractor	\$1,500
	c. Solar filter (hydrogen-alpha) for Fitz refractor [NB: still investigating — focal length of refractor might make H- α filter	TBD

	ineffective; size might be cost-prohibitive. Alternative: dedicated solar telescope]	
	d. Modification of Fitz telescope tailpiece for (a) mounting CCD digital camera on eyepiece, with streaming video throughout the facility, and (b) mounting smartphone adapters, so viewers can easily take photographs.	\$10,000-\$12,000
	e. Video cameras in the dome, with streaming throughout the facility.	\$1,000
	f. Fabrication of "breathable" window inserts, to reduce light glare and light pollution	\$1,000-\$5,000
	g. Annual maintenance of dome, shutter, and telescope -- annual	\$3,000
	h. Exhibits to assist with above	\$10,000
***	Exhibits Program: Research, Development and Maintenance	
	10. <i>Exhibition spaces (non-digital): casework, graphics, signage/labels, display systems, materials, interactives, one time</i>	TBD
	11. <i>Exhibits refresh, rotation, ongoing development, U-M history and astronomy, annual</i>	\$20,000
***	People	
	12. <i>Detroit Observatory Student Docents Program, annual</i>	\$14,000-\$28,000
	13. <i>Detroit Observatory Outreach Astronomer, .5 FTE, annual</i>	\$50,000-\$70,000
	Programs and Events	
	14. <i>Lecture Series, annual</i>	\$10,000-\$20,000
	15. <i>Outreach</i>	\$10,000-\$20,000