

Credits

This report was prepared in conjunction with the Town of Oxford, Maryland using Federal funds under award number NOS204190206 from NOAA, U.S. Department of Commerce. The statements, findings, conclusions, and recommendations are those of the author(s) and do not necessarily reflect the views of NOAA or the U.S. Department of Commerce.

Preservation Green LLC & George, Miles & Buhr, LLC prepared the Volume I Oxford 2100 A Strategic Vision Report, Volume II Oxford 2100 A Strategic Vision, & Volume III Student Projects MD School of Architecture, Planning & Preservation in conjunction with the Town of Oxford, Maryland.

The Oxford 2100 Strategic Vision is preceded by various resiliency projects including the Stormwater and Flood Management, Financing Study issued in 2013 by the Maryland Environmental Finance Center in collaboration with the National Fish and Wildlife Foundation, the Eastern Shore Land Conservancy, and the Chesapeake Bay Foundation; the Stormwater Management and Shoreline Protection Inventory and Masterplan Study, prepared in GMB in 2014; the creation of the Causeway Park and The Wetlands Park; and finally with funding from the Maryland Department of Natural Resources (DNR) and the National Oceanic and Atmospheric Administration (NOAA), students from the Maryland School of Architecture, Planning, and Preservation developed the initial phase of the Oxford 2100 Strategic Vision as part of the University's Partnership for Action in Sustainability (PALS) in collaboration with the Town of Oxford.

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Background & Purpose of the Oxford 2100 A Strategic Vision

The Town of Oxford, MD is a historic port community in Talbot County, located on Maryland's Eastern Shore. The town sits at the mouth of the Tred Avon River, at the confluence of the Tred Avon and Choptank Rivers, and is comprised of a northern and southern peninsula. The northern peninsula is surrounded by the Tred Avon River to the west and north and Town Creek to the south. The southern peninsula is surrounded by the Tred Avon River to the west, the Choptank River to the south, and Boone Creek to the east. The Town lies generally below elevation 10' and, as a result, currently suffers from nuisance flooding from both "sunny day" tidal events and routine precipitation events. It is anticipated that flooding conditions will increase in severity and frequency from rising sea levels and precipitation events with increasing intensity resulting from a changing climate. While steps and planning are currently underway to address nuisance flooding, the Town understands there is a need to develop a long-range vision to address major flooding. This includes difficult conversations on the necessary adaptations in the light of climate change and predicted sea level rise. The purpose of this study is to consider the climate related impacts of changes in precipitation patterns and sea level rise as they relate to the built environment and the ability to maintain the port Town of Oxford as a thriving, liveable community over the next 100 years, utilizing the University of Maryland student project boards as a starting point to craft the final Vision.

This project provides the community with a visual interpretation of a possible interpretation for Oxford in the year 2100. The final report includes the identification of potential climate mitigation strategies, public and private infrastructure adaptations, and several approaches and alternatives necessary to achieve this goal. The final report will serve as a guiding document for the Town and its leaders into the future towards the year 2100. It is intended to be reviewed periodically, addressed as the landscape and engineering technologies change, and updated to keep pace with the current state of sea level rise and localized flooding. It is recommended that a 100-year capital improvement program be crafted from the guidance herein, identifying priority areas and the tougher hurdles that will need to be overcome for success.

Oxford will successfully embrace climate change, specifically sea level rise, with thoughtful consideration, extensive planning, and aggressive adaptation. Learning to live with the water will be key for the future.



Aerial image of the Town of Oxford surrounded by the Tred Avon River & Town Creek.

Oxford 2023 Aerial Overlay



Fig. IV.A.1 Existing Municipal Boundary and Topography of Oxford,

4 Feet Sea Level Rise

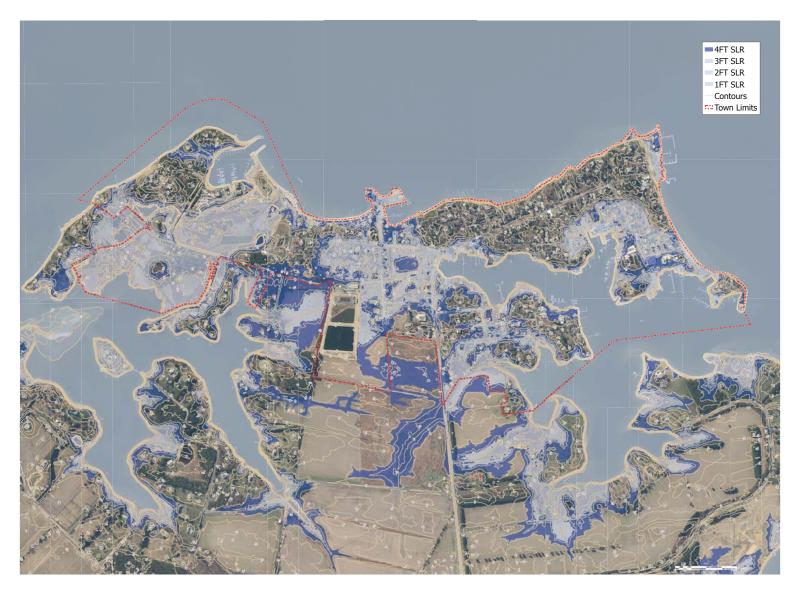
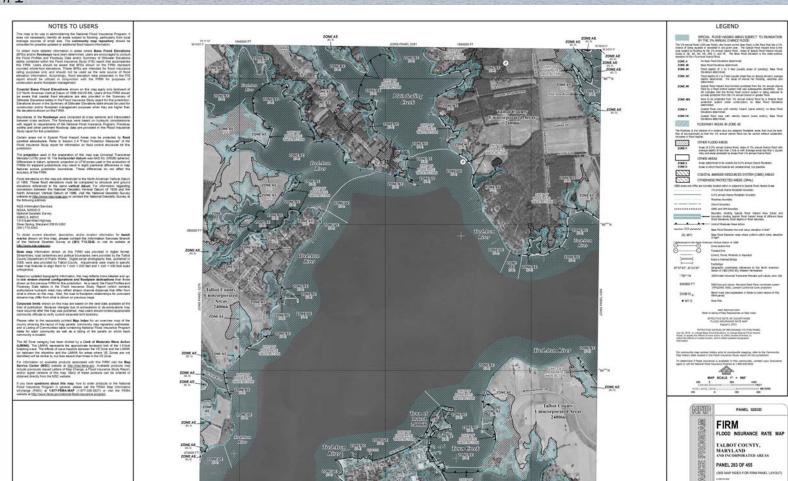


Fig. IV.B.3 Inundation at elevation 4.0' due to sea level rise or storm surge for Oxford, MD.



Fig. IV.B.4 Inundation at elevation 6.0' due to sea level rise or storm surge for Oxford, MD.

FEMA Map #1

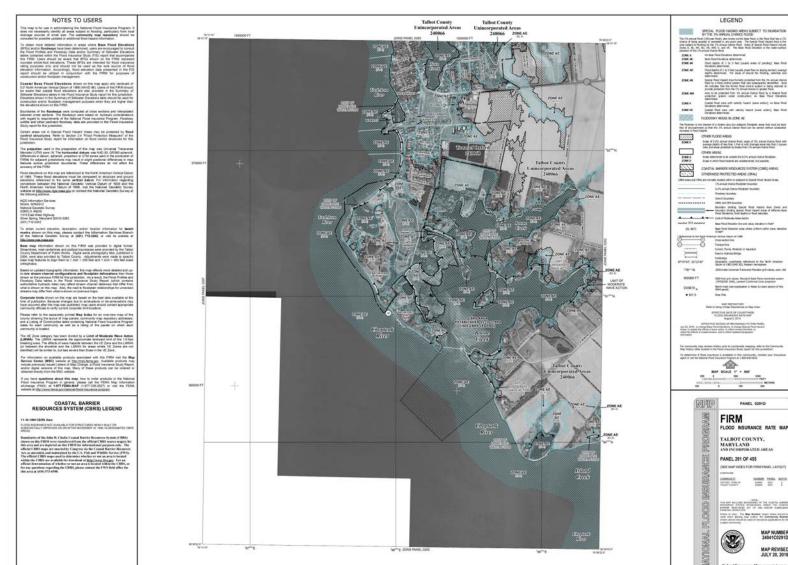


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Fig. IV.C.1
FEMA Flood Zone
Map for Oxford, MD.

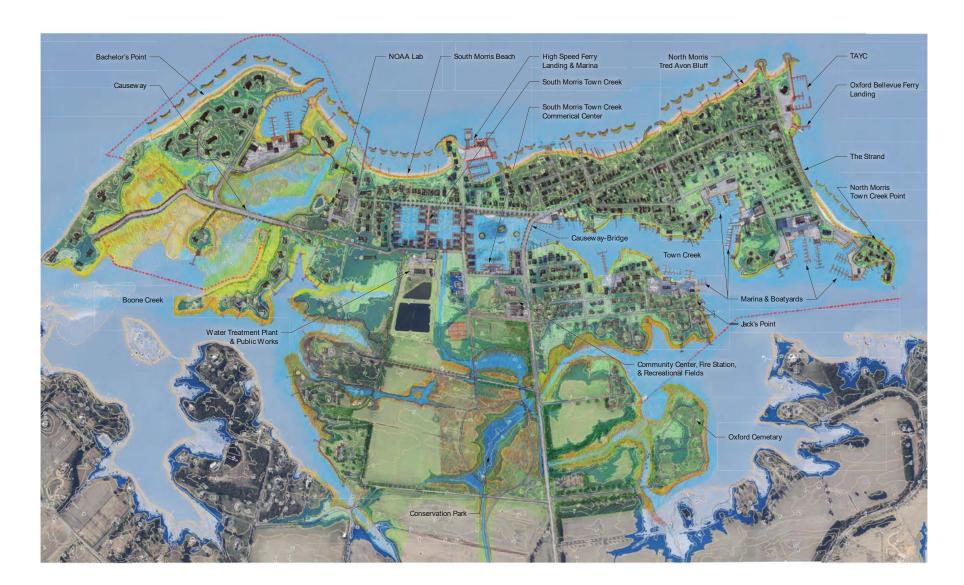
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FEMA Map #2

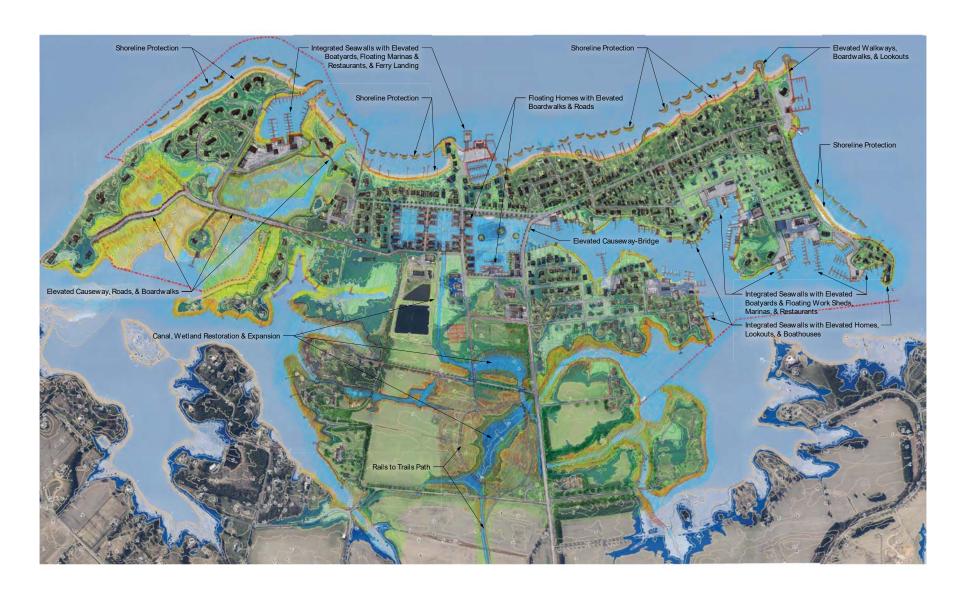


FEMA Flood Zone Map for Oxford, MD.

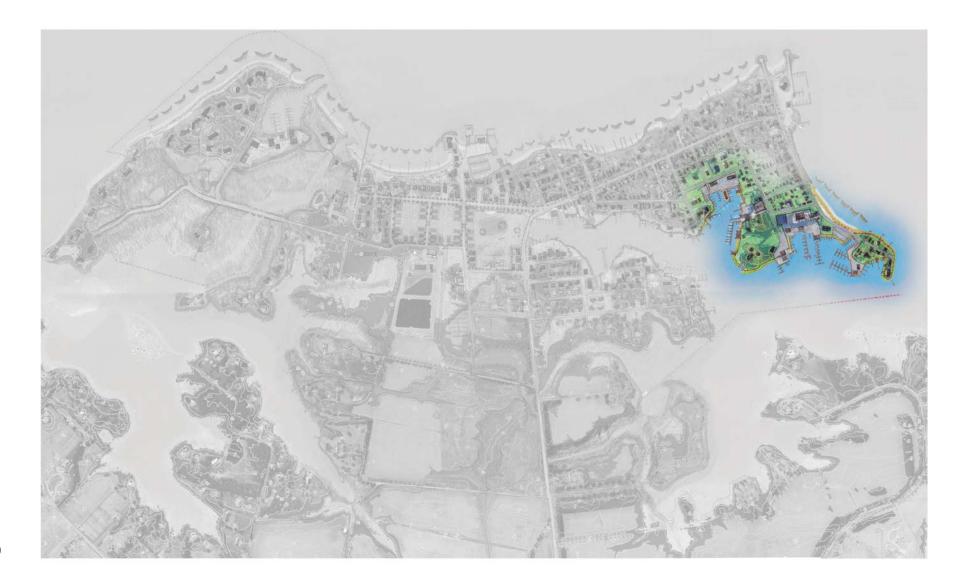
Masterplan Locations



Masterplan Strategies



North Morris Town Creek Boathouse Seawalls & Shoreline Protection



North Morris Town Creek Boathouse Seawalls & Shoreline Protection





North Morris Town Creek Residential Seawalls

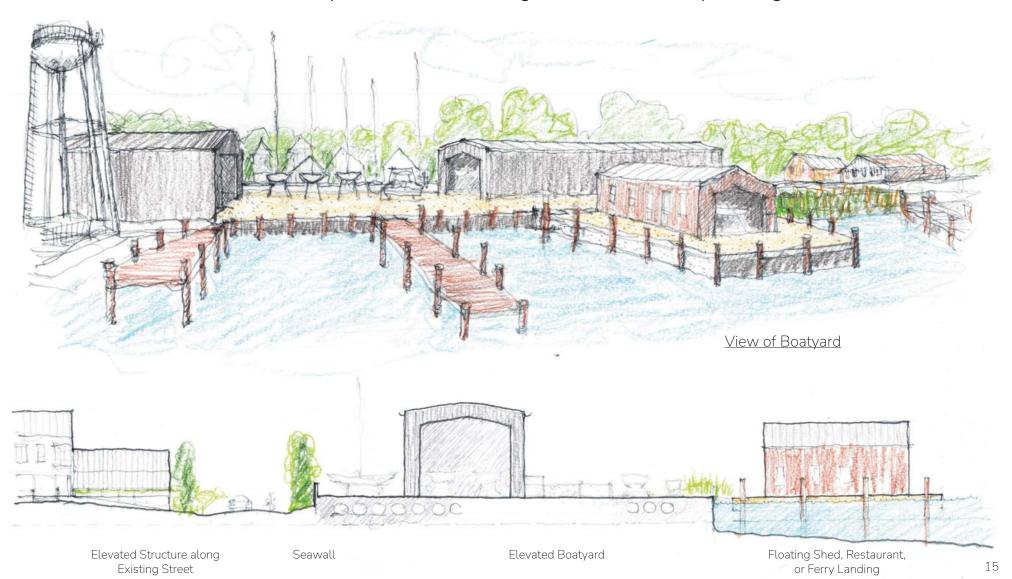




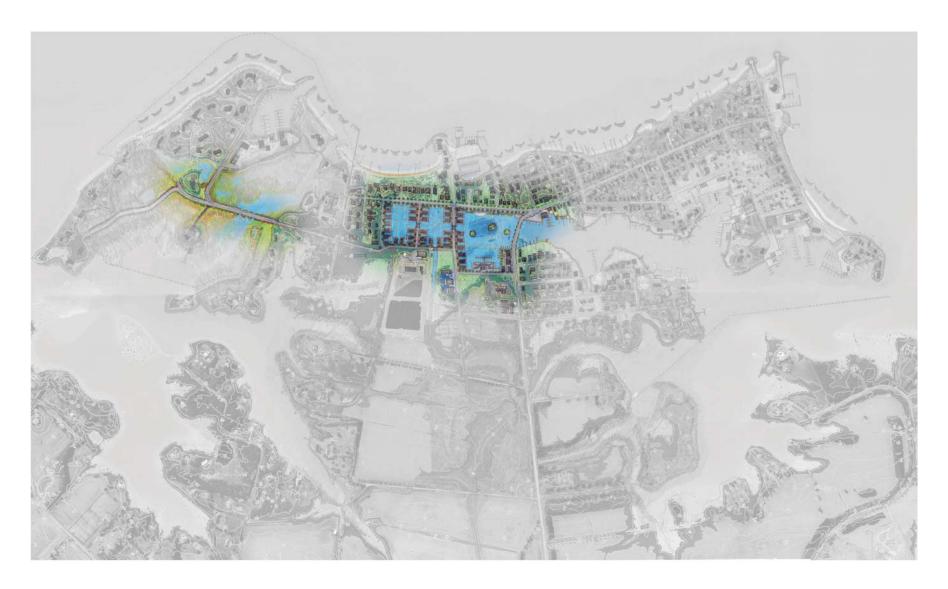
Boatyards, Marinas, Floating Restaurants, & Ferry Landings as Seawall Prectections



Boatyards, Marinas, Floating Restaurants, & Ferry Landings as Seawall Prectections



Floating Homes & Elevated Causeways & Streets







View of the Elevated Causeway-Bridge



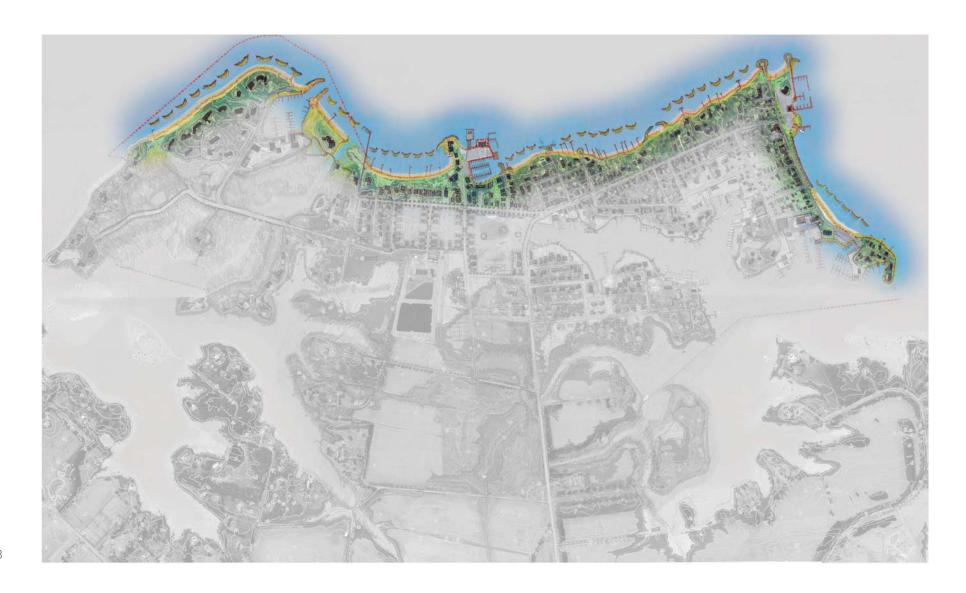
Elevated Street Floating Home & Infrastructure

Elevated Boardwalk along South Morris

Floating Garden

Elevated Causeway-Bridge with Systems

Shoreline Protection



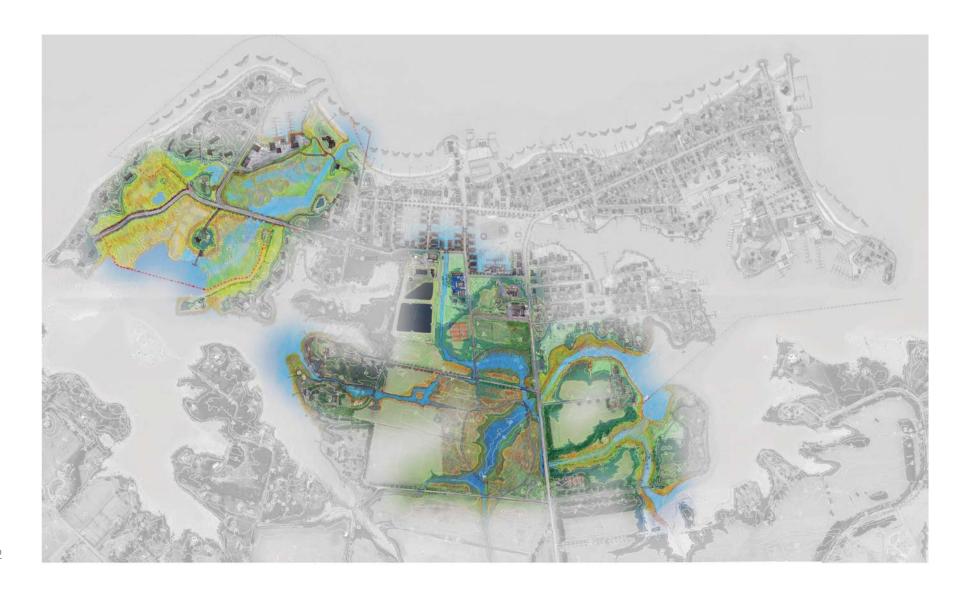








Canals, Wetlands, & Park







2023 - 2030

The following timeline is a projection of suggested timelsots for activities described in Volume 1 of this report. These activities are divided between reseach & development and/or implemenation & construction phases. See Volume 1 for details.

LEGEND OF RESILIENCY ENHANCEMENT EFFORTS

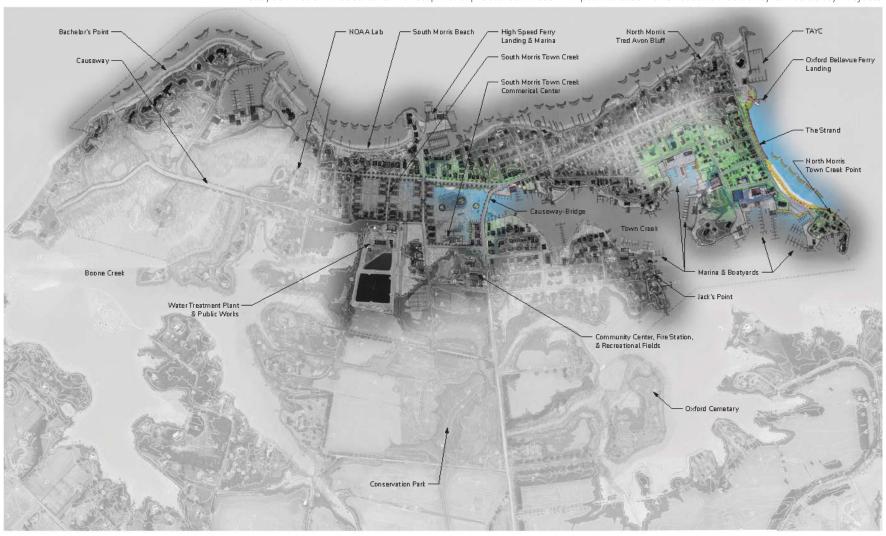
RESEARCH & DEVELOPMENT		SHORELINE RESILIENCY	ENHANCEMENT					HARDSCAPES, CONSTRUCTION & INFRASTRUCTURES				
Monitoring	Monitoring	Marsh Restoration	Marsh Restoration/Creation	Fiber Logs	Fiber Logs	Breakwaters	Breakwaters	Tide Gates	Repair or Replace Tide Gates			
Survey	Survey	Grading	Grading	Rock Sills	Rock Sills	Jetties	Jetties/Groins	Floating Homes	Floating Homes			
Planning & Design	Planning & Design	Beach Restoration	Wetland/Beach Nourishment	Toe Revetment	s Toe Revetments	Seawalls	Seawalls	Boathouse	Boathouses			
Review & Approval	Community Approvals	Dunes	Dune Creation & Restoration	Oyster Reefs	Oyster Reefs	Naturescapes	Naturescapes	Walkways/Piers	Elevated Walkways			
Zoning Modifications	Zoning Modifications		_		_		-	Causeway or Bridge	Causeway Modifications			
Government Approvals	Government Approvals							Public Utilities	Public Utility Improvements			
Funding	Funding							Pump Stations	Upgrade Pumping Stations			

^{* 10-}YEAR OXFORD MASTERPLAN REVIEW

2023																				:	2030		
AREA OF OXFORD		20	24		. 20	025			20	26		. 20	27		20	28		20	29			203	30
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Town Park, North																				*	10 YEAR	MASTE	RPLAN REVIEW
Morris, Tred Avon	Tide	Gates			SHORELINE RESILIENCY ENHANCEMENT- PHASE I - RESEARCH & DEVELOPMEN													:NT					
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Town Creek Point	Jetties / Groins				Break	waters	5	Tide Gates Fiber Log			ogs	Rock Sills Toe			Toe Rev	etments	Oyst				eefs		
TOWIT OTCCK TOMIC	Grading				Dι	unes		Wall	ways			Beach Re	storation					N	√arsh Resto	ration			
North Morris Town	Tide	Gates		RESILIENCY ENHANCEMENT - PHASE I - RESEARCH & DEVELOPMENT																			
Creek		outes	Monitorin	Su	irvey		F	Planning	& Design		Review &	Approval			Governme	nt Approvals				Funding			
South Morris Town	Tide	ELEVATING CAUSEWAY - RESEARCH & DEVELOPMENT																					
Creek			Survey		Planning	g & Des	sign	R	eview &	Approval	Go	vernmer	t Approvals					Fun	ding				
Jack's Point	Tide	Gates														RESEARCH & D				APPRO	OVALS &	_	_
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Bachelor's Point &	Tide	Gates						RESILIENCY ENHANCEMENT - RESEARCH & DEVELOPMENT								APPROVALS & FUNDING			_				
NOAA										Monitor	ing	Survey	Planning & Design				Review &	. Approval			fund	ing	
Treatment Plant									RESILIENCY ENHANCEMENT - RESEARCH & DEVELOPMENT										APPROVAL	.S & FUI	NDING		
											Monitor		Survey		Planning	& Design		Review &	. Approval			fund	
Recreation &			Tide Gates						RESILIEN	ICY ENHANCE	1ENT - RE	SEARCH 8	& DEVELOPMEN				APPROVALS & FUNDING						
Conservation Park								Monitoring					Survey		Planning	& Design		Review &	. Approval			fund	ing
South Morris Beach	Tide	Gates												SOU		HES & BLUFFS							
Coutin monto Bodon	True Gutes							Moni	toring	Survey		Planning	& Design			w & Approval					nding		
Pier Street Marina	Tide	Gates													-	RESEARCH & D	_			APPRO	OVALS &		
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Community											RE	SILIENCY	ENHANCEMENT	- RESEAF	RCH & DE	VELOPMENT			APPRO	VALS &	FUNDIN	G	

Resiliency Enhancement Timeline - Immediate Term

Grayed Areas = Research & Development | Colored Areas = Implementation of Shoreline Resiliency & Resiliency Projects



Resiliency Enhancement Timeline - Short Term

2025 - 2040

The following timeline is a projection of suggested timelsots for activities described in Volume 1 of this report. These activities are divided between reseach & development and/or implemenation & construction phases. See Volume 1 for details.

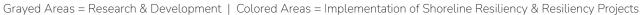
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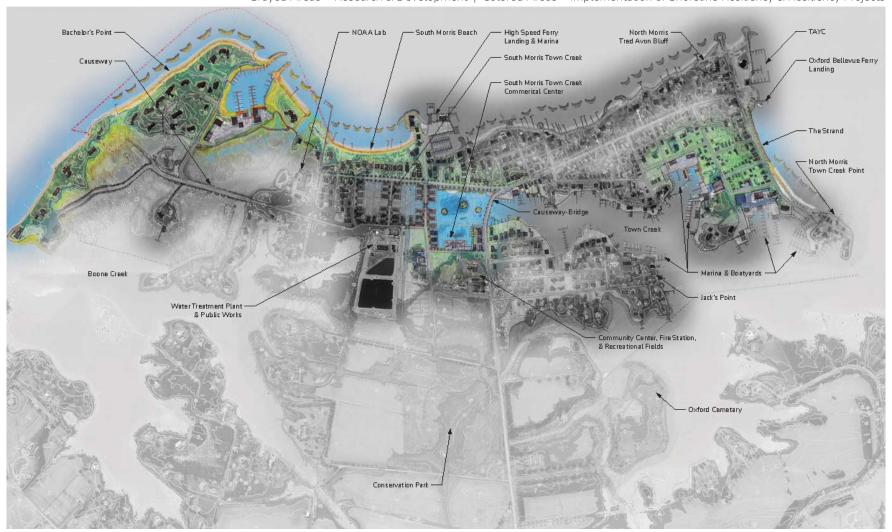
RESILIENCY ENHANCE	MENT - RESEARCH & DEVELOPMENT	SHORELINE RESILIE	NCY ENHANCEMENT					HARDSCAPES, CON	STRUCTION & INFRASTRUCTURES
Monitoring	Monitoring	Marsh Restoration	Marsh Restoration/Creation	Fiber Logs	Fiber Logs	Breakwaters	Breakwaters	Tide Gates	Repair or Replace Tide Gates
Survey	Survey	Grading	Grading	Rock Sills	Rock Sills	Jetties	Jetties/Groins	Floating Homes	Floating Homes
Planning & Design	Planning & Design	Beach Restoration	Wetland/Beach Nourishment	Toe Revetments	Toe Revetments	Seawalls	Seawalls	Boathouse	Boathouses
Review & Approva	Review & Community Approvals	Dunes	Dune Creation & Restoration	Oyster Reefs	Oyster Reefs	Naturescapes	Naturescapes	Walkways/Piers	Elevated Walkways
Zoning Modificatio	ns Zoning Modifications							Causeway or Bridge	Causeway Modifications
Government Approv	als Government Approvals							Public Utilities	Public Utility Improvements
Funding	Funding							Pump Stations	Upgrade Pumping Stations

^{* 10-}YEAR OXFORD MASTERPLAN REVIEW

	2025															2040		
AREA OF OXFORD	2025	2026	2027	2028	2029	20	30 2	2031	2032	2033	2034	2035	2036	2037	2038	2039		
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	SHORELINE RESI	LIENCY ENHANCEI	MENT - PHASE I - R	ESEARCH & DEV	ELOPMENT		RESILII	ENCY ENHANC	EMENT - APPF	ROVALS & FUND	NG							
	Monitoring	Survey	Planning & Design	gn Review &		Zoning	Gove	ernment				E,	Funding					
Tred Avon Bluff					Annroval	Modifica		provals					ariding					
			MENT - PHASE I IM				REEK POINT RES	ILIENCY ENHA	NCEMENT - PI	HASE II - RESEAR	CH & DEVELOPME	NT						
Ferry, Town		T. Gates Fiber I		Toe Revetmen		efs Monit	toring Si	urvev	Planning &		Zoning	Government		E,	ınding			
Creek Point			ch Nourishment		Restoration	WIOIII	torning 31	- /	Design	Approval	Modifications	Approvals		10	ariumg			
North Morris	SHORELINE RESI		MENT - PHASE I - R	ESEARCH & DEV	ELOPMENT			RA			NST., NORTON ST.,							
Town Creek	Survey	Planning &	review &	governm	ent approvals		funding		Tide	Tide Gates Public Utilities Pump Stations								
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South Morris	RESEARCH & DE	/ELOPMENT				ELEVATI	NG CAUSEWAY -	· IMPLEMENT.			_							
Town Creek	Review &	Governme	ent Approvals		unding		Tide Gates											
TOWIT CIECK	Approval	Governine			J		Grading			walls								
			RESILIE	NCY ENHANCEN							ENT - APPROVALS							
Jack's Point	Monit			itoring 5	Survey	Planning &		Zoning	Gove	rnment		Funding						
					<i>'</i>	Design	Approval	Modificati		rovals		· ·						
Bachelor's			RESILIE	NCY ENHANCEN							ENT - APPROVALS	& FUNDING						
Point & NOAA			Moni	itoring 5	Survey	Planning &		Zoning		rnment		Funding		Brea	Funding AMPBELL'S BOATYARD REINFORCE Breakwaters Piers Pump Marsh Restoration BER STREET MARINA REINFORCEN Breakwaters Piers Pump Marsh Restoration			
				<u> </u>		Design	Approval	Modificati		rovals						estoration		
Treatment			RESILIE	NCY ENHANCEN							ENT - APPROVALS	& FUNDING						
Plant			Moni	itoring 5	Survey	Planning &		Zoning		rnment		Funding						
Recreation &					,	Design	Approval	Modificati		rovals	ABBBBBBBBB	0.51111511110						
Conservation			RESILIE	NCY ENHANCEN				7			ENT - APPROVALS	& FUNDING						
			Moni	itoring 5	Survey	Planning &		Zoning		rnment		Funding						
Park		DECILIENCY ENIL	IANCENAENT DECE	ADCIL 9 DEVELO	DNAFAIT	Design	Approval	Modificati		rovals	NC.							
South Morris		RESILIENCY ENH	IANCEMENT - RESE	Planning &	Review 8	& Zon		ernment	EIVIENI - APPI	ROVALS & FUND	ING							
Beach		Monitoring	Survey	_	Review a					F	unding							
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Pier Street			RESILIEI	NCT EINHAINCEIV		Planning &	Review &	Zoning		rnment	EINT - APPROVALS	מ רטואטוואט						
Marina			Moni	itoring 5	Survey	o l		_				Funding		Бгеа				
Community			DECILIE	NCY ENHANCEN	ENT DECEADO	Design	Approval AENT	Modificati		rovals	ENT - APPROVALS	2. ELINDING			iviaiSN	CSTOLGTION		
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Resiliency Enhancement Timeline - Short Term







2040 - 2070
The following timeline is a projection of suggested timelsots for activities described in Volume 1 of this report. These activities are divided between reseach & development and/or implemenation & construction phase See Volume 1 for details.

LEGEND OF RESILIENCY ENHANCEMENT EFFORTS

RESEARCH & DEVELOPMENT	SHORELINE RESILIENCY - NON STRUCTURAL METHOD	SHORELINE RESILIENCY - HYBRID METHOD	RESILIENCY PROJECTS - HARDSCAPES, CONSTRUCTION & INFRASTRUCTURES
Monitoring	Marsh Restoration or Creation	Fiber Logs	Repair or Replace Tide Gates
Survey	Grading	Rock Sills	Floating Homes
Planning & Design	Wetland & Beach Nourishment	Toe Revetments	Boathouses
Review & Community Approvals	Dune Creation & Restoration	Oyster Reefs	Elevated Walkways & Piers
Zoning Modifications		Breakwaters	Causeway Modifications
Government Approvals		Jetties & Groins	Public Utility Improvements
Funding		Seawalls Naturescapes	Upgrade Pumping Stations

* 10-YEAR OXFORD MASTERPLAN REVIEW

2040	IASTERPLAN REVIEW	2070												
2040														
AREA OF OXFORD	2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2													
Tarres David, Marsh	*10-YEAR OXFORD MASTERPLAN REVIEW *10-YEAR OXFORD MASTERPLAN REVIEW	* 10-YEAR OXFORD MASTERPLAN REVIEW												
Town Park, North	PHASE I - RESEARCH DEVELOPMENT SHORELINE RESILIENCY ENHANCEMENT- PHASE I - IMPLEMENTATION & CONSTRUCTION	SHORELINE RESILIENCY ENHANCEMENT - PHASE II - RESEARCH & DEVELOPMENT												
Morris & Tred Avon	Survey Planning & Gov. Fund Jetties / Groins Breakwaters Walkways & Fiber Logs Rock Sills Toe Revet. Oyster Reefs	Monitoring Survey Planning & Design Zoning Government Funding												
Bluff	Design Approva Grading Dunes Piers Beach Restoration Marsh Restoration	Modifications Approvals												
The Strand, Ferry,	SHORELINE RESILIENCY ENHANCEMENT- PHASE I - IMPLEMENTATION & CONSTRUCTION	SHORELINE RESILIENCY ENHANCEMENT - PHASE II - RESEARCH & DEVELOPMENT												
Town Creek Point	Jetties / Groins Breakwaters Walkways & Fiber Logs Rock Sills Toe Revet. Oyster Reefs	Monitoring Survey Planning & Design Funding												
	Grading Dunes Piers Beach Restoration Marsh Restoration	Modifications Approvals												
North Morris Town	SHORELINE RESILIENCY ENHANCEMENT- PHASE I - IMPLEMENTATION & CONSTRUCTION	3HORELINE RESILIENCY ENHANCEMENT - PHASE II - RESEARCH & DEVELOPMEN												
Creek	Seawalls Fiber Logs Rock Sills Toe Revet. Oyster Reefs	Monitoring Survey Planning & Design Zoning Government Funding												
	Grading Tide Gates Piers Utilities Pump Stations Marsh Restoration	Modifications Approvals												
South Morris Town	TEMPORARY STORMWATER PUMP STATION BRIDGE & SOUTH MORRIS FLOATING HOME COMMUNITY - RESEARCH &	DEVELOPMENT												
Creek	Pump Stations Monitoring Survey Planning & Review & Zoning Government Funding													
CICCK	Design Approval Modification Approvals													
	SHORELINE RESILIENCY ENHANCEMENT - RESEARCH & DEVELOPMENT													
Jack's Point	Monitoring Survey Planning & Review & Zoning Government Funding													
	Design Approval Modification Approvals													
Bachelor's Point &	SHORELINE RESILIENCY ENHANCEMENT- PHASE II - IMPLEMENTATION & CONSTRUCTI CAUSEWAY & BOARDWALKS	SHORELINE RESILIENCY ENHANCEMENT - PHASE II - RESEARCH & DEVELOPMEN												
NOAA	Jetties Seawalls Breakwaters Utilities Fiber Logs Rock Sills Oyster Reefs Causeway Walkways	Monitoring Survey Planning & Design Zoning Government Funding												
NOAA	Grading Dunes Tide Gate Walkways Beach Restoration Marsh Restoration	Modifications Approvals												
	RESILIENCY ENHANCEMENT - PHASE I - IMPLEMENTATION & CONSTRUCTION													
Treatment Plant	SCOPE DEFINED PENDING RESEARCH & DEVELOPMENT EFFORTS													
	SOUTE DELIVED TEACHER AND TEACHER AND THE PROPERTY OF THE PROP													
Recreation &	RESILIENCY ENHANCEMENT- PHASE I - IMPLEMENTATION & CONSTRUCTION DEVELOP RAILS TO TRAILS	SHORELINE RESILIENCY ENHANCEMENT - PHASE II - RESEARCH & DEVELOPMEN												
Conservation Park	Jetties Seawalls Walkways & Piers Rock Sills Oyster Reefs	Monitoring Survey Planning & Design Funding												
Conservation Fark	Grading Tide Gate Pump Stations Marsh Restoration	Modifications Approvals												
	SHORELINE RESILIENCY ENHANCEMENT- PHASE I - IMPLEMENTATION & CONSTRUCTION	SHORELINE RESILIENCY ENHANCEMENT - PHASE II - RESEARCH & DEVELOPMEN												
South Morris Beach	Jetties Seawalls Breakwaters Utilities Fiber Logs Rock Sills Oyster Reefs Walkways	Zoning Government Monitoring Survey Planning & Design Funding												
	Grading Dunes Tide Gate Walkways Beach Restoration Marsh Restoration	Modifications Approvals												
	RESILIENCY ENHANCEMENT - PHASE I - IMPLEMENTATION & CONSTRUCTION	SHORELINE RESILIENCY ENHANCEMENT - PHASE II - RESEARCH & DEVELOPMENT												
Pier Street Marina	SCOPE DEFINED PENDING RESEARCH & DEVELOPMENT EFFORTS	Monitoring Survey Planning & Design Zoning Government Funding												
	SCOPE DETINED PENDING RESEARCH & DEVELOPMENT EFFORTS	Modifications Approvals												
Community	RESILIENCY ENHANCEMENT - PHASE I - IMPLEMENTATION & CONSTRUCTION													
00														
28 Buildings &	SCODE DEFINED DENDING RESEARCH & DEVELOPMENT FEFORTS													
∠⊗ Buildings & Services	SCOPE DEFINED PENDING RESEARCH & DEVELOPMENT EFFORTS													

Resiliency Enhancement Timeline - Mid Term

Grayed Areas = Research & Development | Colored Areas = Implementation of Shoreline Resiliency & Resiliency Projects





2070 - 2100
The following timeline is a projection of suggested timelsots for activities described in Volume 1 of this report. These activities are divided between reseach & development and/or implemenation & construction phases. See Volume 1 for details.

LEGEND OF RESILIENCY ENHANCEMENT EFFORTS

RESEARCH & DEVELOPMENT Monitoring Survey Planning & Design Review & Community Approvals Zoning Modifications **Government Approvals** Funding

SHORELINE RESILIENCY - NON STRUCTURAL METHOD Marsh Restoration or Creation Grading Wetland & Beach Nourishment Dune Creation & Restoration

SHORELINE RESILIENCY - HYBRID METHOD Fiber Logs Rock Sills Toe Revetments Oyster Reefs Breakwaters Jetties & Groins Seawalls Naturescapes

RESILIENCY PROJECTS - HARDSCAPES, CONSTRUCTION & INFRASTRUCTURES Repair or Replace Tide Gates Floating Homes Boathouses Elevated Walkways & Piers Causeway Modifications Public Utility Improvements Upgrade Pumping Stations

* 10-YEAR OXFORD MASTERPLAN REVIEW

2070																	2100
AREA OF	2070 2071 2072	2073 2074	2075 2076	2077 2078	2079 2080 2081	2082	2083 2084 208	2086	2087 2088	2089 20	090 20	91 209	2 2093	2094	2095 2090	6 2097	2098 2099
OXFORD	* 10-YEAR OXFORD MAST						ERPLAN REVIEW			* 10	O-YEAR O	XFORD MA	STERPLAN	IREVIEW			*
North Morris	SHORELINE	E RESILIENCY ENH	ANCEMENT- PH	ASE II - IMPLEMEI	NTATION & CONSTRUC	TION											
& Tred Avon																	
Bluff																	
The Strand,	SHORELINE RESI	LIENCY ENHANCE	MENT- PHASE II	- IMPLEMENTATI	ON & CONSTRUCTION												
Ferry, Town																	
Creek Point																	
North Morris	SHORELINE	E RESILIENCY ENH	ANCEMENT- PH	ASE II - IMPLEMEI	NTATION & CONSTRUC	TION			SHORELINE RES	ILIENCY ENHA	ANCEME	NT- PHASE	III - IMPLE	MENTATIO	N & CONSTRU	ICTION	
Town Creek																	
TOWIT CIECK																	
South Morris	TEMP CAUSEWAY	FLOATING HOM	1ES - PHASE I	MARINA & CO	OMMERCIAL CENTER	FLOATII	NG HOMES - PHASE I	_		FLO	ATING H	OMES - PH	IASE III				
Town Creek																	
TOWIT OTCCK																	
	SHORELINE RESILIENC	Y ENHANCEMENT	- IMPLEMENTAT	ION & CONSTRU	CTION												
Jack's Point																	
Bachelor's	SHORELINE RESILIENC	YENHANCEMENT	- PHASE II - IMPI	LEMENTATION &	CONSTRUCTION	CAUSEV	VAY & BOARDWALK	5									
Point &																	
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Treatment	ļ R	RESILIENCY ENHAN	NCEMENT - PHAS	SE II - IMPLEMENT	TATION & CONSTRUCT	ION											
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Recreation &	RESILIENCY ENHANCEME	INI-PHASE II-IIVII	PLEIVIENTATION	& CONSTRUCTIO	N DEVI	ELUP RAILS	TOTRAILS										
Conservation																	
Park	SHORELINE RESILIENCY E	NULANICENAENT D	LIACE II INADI EN	AFNITATION O CO	MICTRUCTION												
South Morris	SHORELINE RESILIENCY E	INHANCEIVIEN I - P	HASE II - IIVIPLEI	VIENTATION & CC	INSTRUCTION												
Beach																	
	P	RESILIENCY ENHAN	CEMENT - PHAS	SE II - IMDI EMENI	TATION & CONSTRUCT	ION											
Pier Street	[
Marina		SCOPE DEFII	NED PENDING R	ESEARCH & DEVE	LOPMENT EFFORTS												
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Resiliency Enhancement Timeline - Long Term

Grayed Areas = Research & Development | Colored Areas = Implementation of Shoreline Resiliency & Resiliency Projects



Marin Marin

