

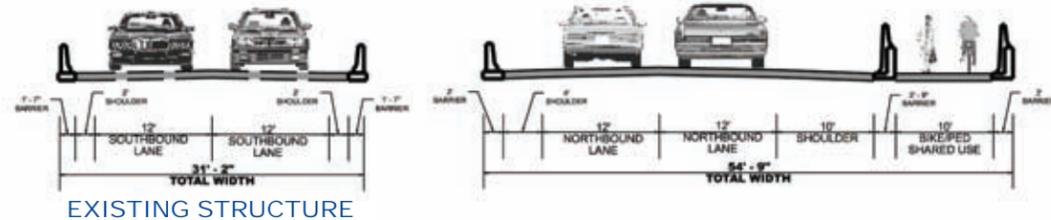
# MD 4 THOMAS JOHNSON BRIDGE PROJECT PLANNING STUDY - MAPPING PACKET

BUILD ALTERNATIVES - (shown looking North)

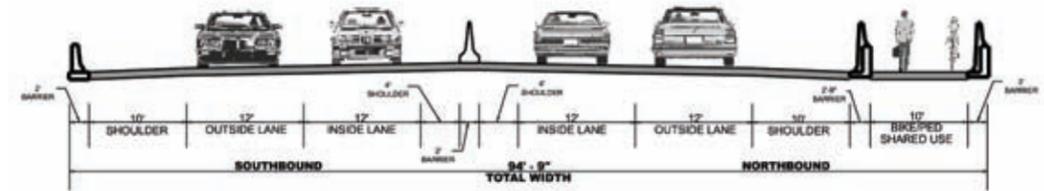
NOT TO SCALE

## TYPICAL SECTIONS

### BRIDGE ALTERNATIVES

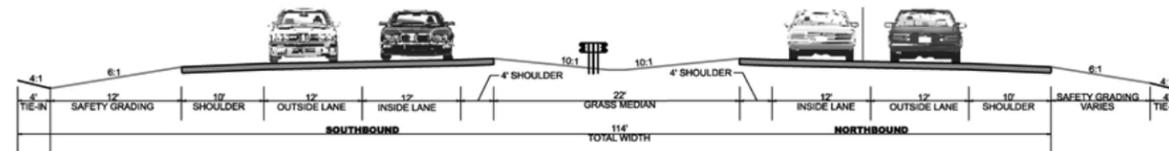


EXISTING STRUCTURE  
ALTERNATIVE 3: 2-LANE PARALLEL SPAN

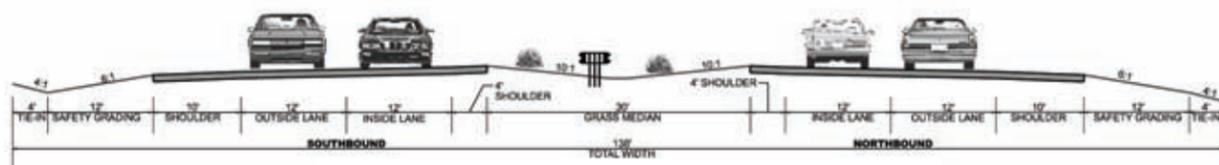


ALTERNATIVE 4: 4-LANE PARALLEL SPAN  
EXISTING BRIDGE TO BE REMOVED

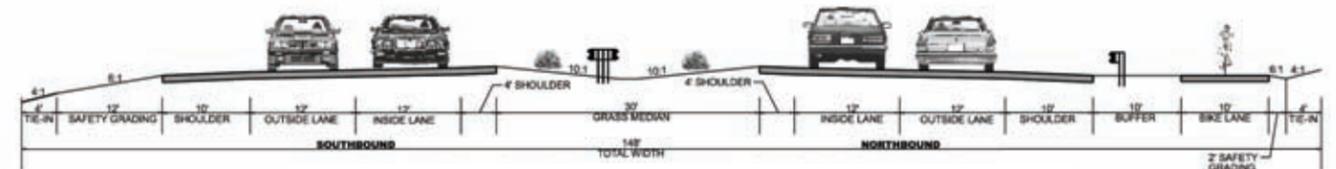
### CALVERT COUNTY MAINLINE MEDIAN WIDENING OPTION



### ST. MARY'S COUNTY MAINLINE OPTION



4-LANE OPEN MEDIAN SECTION

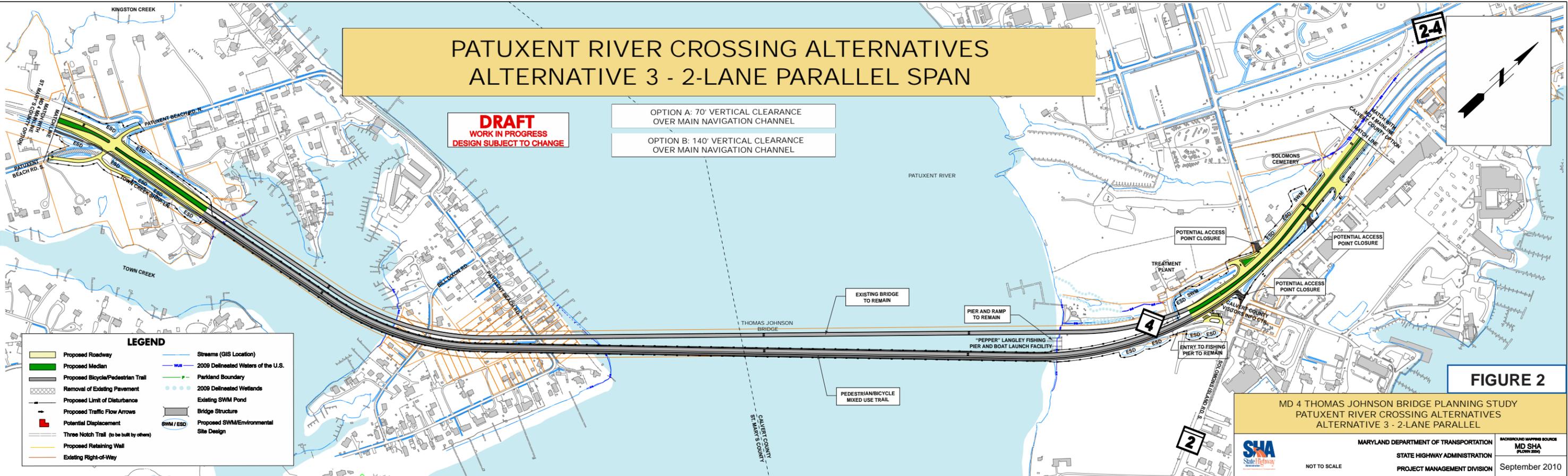


4-LANE, OPEN MEDIAN SECTION WITH  
SEPARATE BICYCLE/PEDESTRIAN FACILITY

# PATUXENT RIVER CROSSING ALTERNATIVES ALTERNATIVE 3 - 2-LANE PARALLEL SPAN

**DRAFT**  
WORK IN PROGRESS  
DESIGN SUBJECT TO CHANGE

- OPTION A: 70' VERTICAL CLEARANCE OVER MAIN NAVIGATION CHANNEL
- OPTION B: 140' VERTICAL CLEARANCE OVER MAIN NAVIGATION CHANNEL



**FIGURE 2**

MD 4 THOMAS JOHNSON BRIDGE PLANNING STUDY  
PATUXENT RIVER CROSSING ALTERNATIVES  
ALTERNATIVE 3 - 2-LANE PARALLEL

MD SHA  
State Highway Administration

MARYLAND DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
PROJECT MANAGEMENT DIVISION

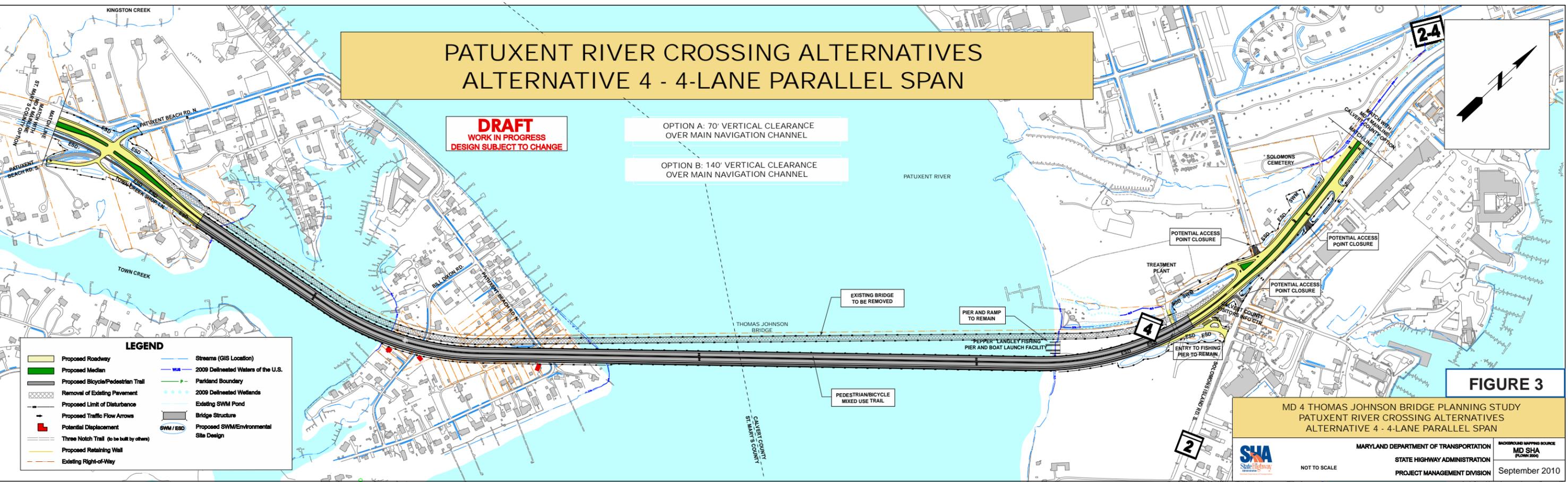
NOT TO SCALE

BACKGROUND MAPPING SOURCE  
MD SHA  
(PLANN 2004)  
September 2010

# PATUXENT RIVER CROSSING ALTERNATIVES ALTERNATIVE 4 - 4-LANE PARALLEL SPAN

**DRAFT**  
WORK IN PROGRESS  
DESIGN SUBJECT TO CHANGE

- OPTION A: 70' VERTICAL CLEARANCE OVER MAIN NAVIGATION CHANNEL
- OPTION B: 140' VERTICAL CLEARANCE OVER MAIN NAVIGATION CHANNEL



**FIGURE 3**

MD 4 THOMAS JOHNSON BRIDGE PLANNING STUDY  
PATUXENT RIVER CROSSING ALTERNATIVES  
ALTERNATIVE 4 - 4-LANE PARALLEL SPAN

MD SHA  
State Highway Administration

MARYLAND DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
PROJECT MANAGEMENT DIVISION

NOT TO SCALE

BACKGROUND MAPPING SOURCE  
MD SHA  
(PLANN 2004)  
September 2010

# MD 4 MAINLINE, CALVERT COUNTY - RAMP OPTIONS

## RIGHT TURN OPTION A

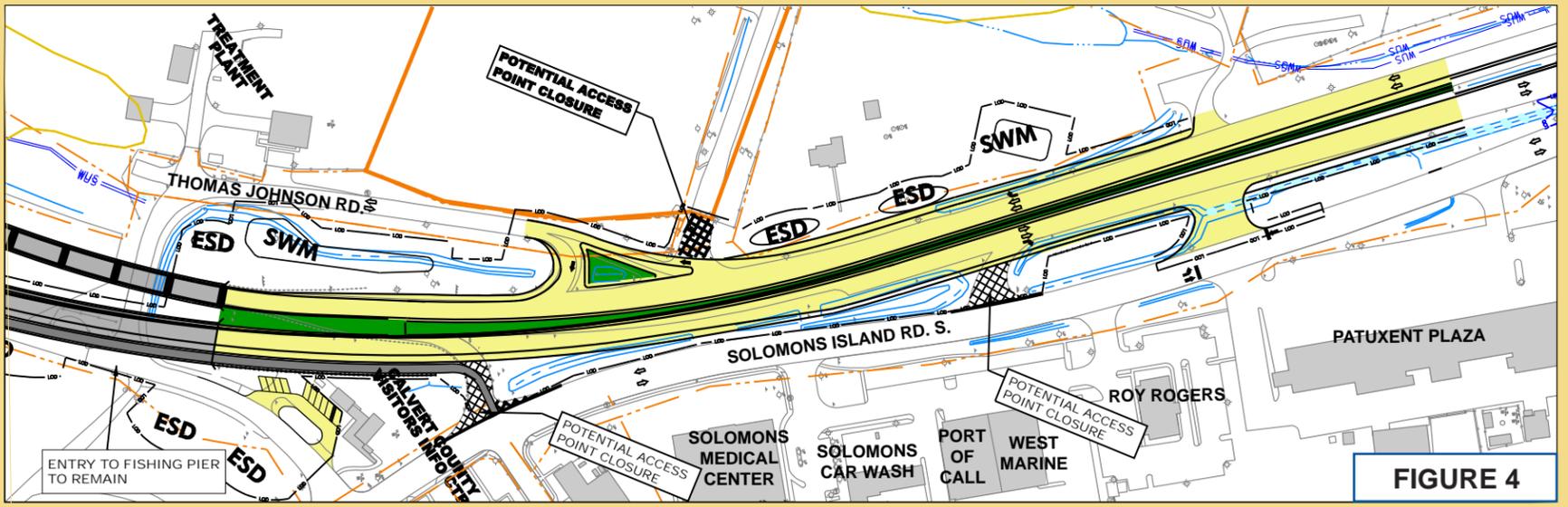


FIGURE 4

# MD 4 MAINLINE, CALVERT COUNTY - RAMP OPTIONS

## RIGHT TURN OPTION B

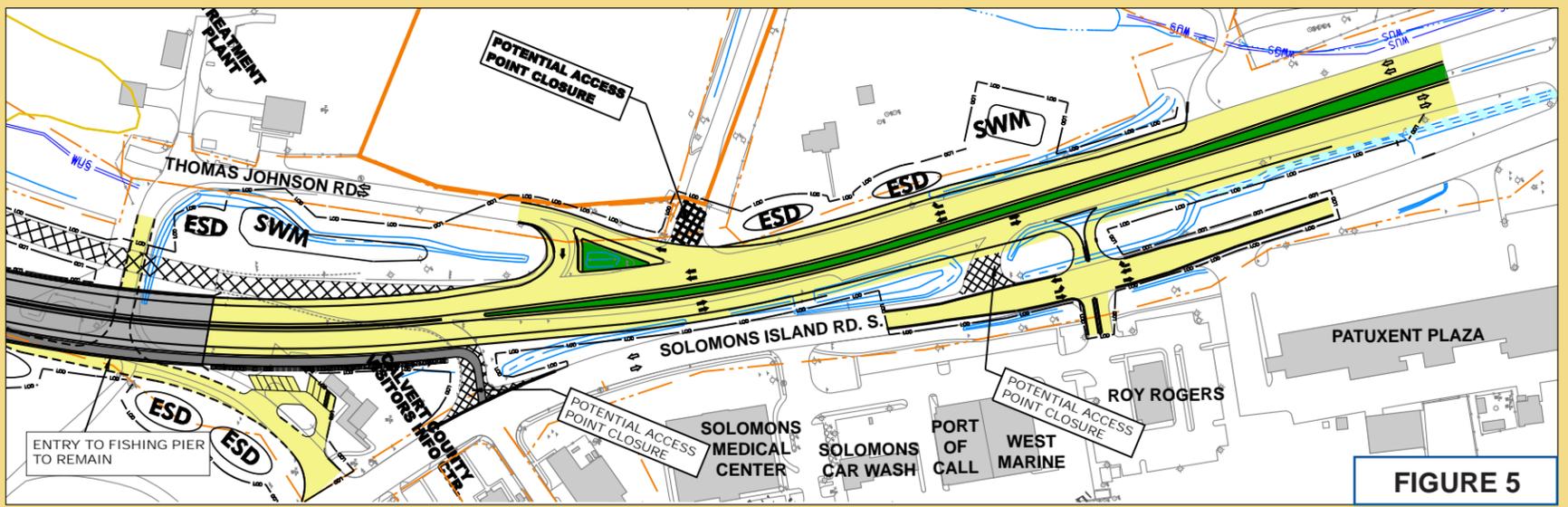


FIGURE 5

# MD 4 MAINLINE, CALVERT COUNTY - RAMP OPTIONS

## LEFT TURN OPTION

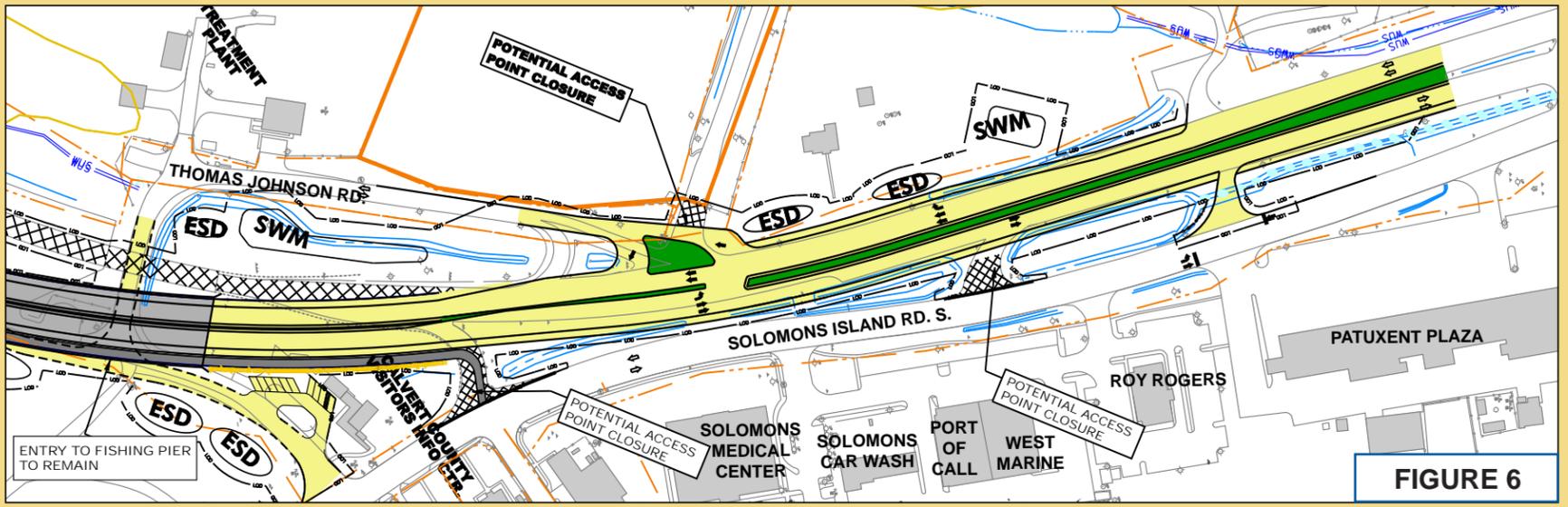


FIGURE 6

### LEGEND

- |  |   |  |  |
|--|---|--|--|
|  | Proposed Roadway                          |  | Streams (GIS Location)                 |
|  | Proposed Median                           |  | 2009 Delineated Waters of the U.S.     |
|  | Proposed Bicycle/Pedestrian Trail         |  | Parkland Boundary                      |
|  | Removal of Existing Pavement              |  | 2009 Delineated Wetlands               |
|  | Proposed Limit of Disturbance             |  | Existing SWM Pond                      |
|  | Proposed Traffic Flow Arrows              |  | Bridge Structure                       |
|  | Potential Displacement                    |  | Proposed SWM/Environmental Site Design |
|  | Three Notch Trail (to be built by others) |  | Right-Of-Way                           |
|  | Proposed Retaining Wall                   |  |  |

# MD 4 MAINLINE, CALVERT COUNTY - ACCESS OPTIONS

## NO CHANGE OPTION

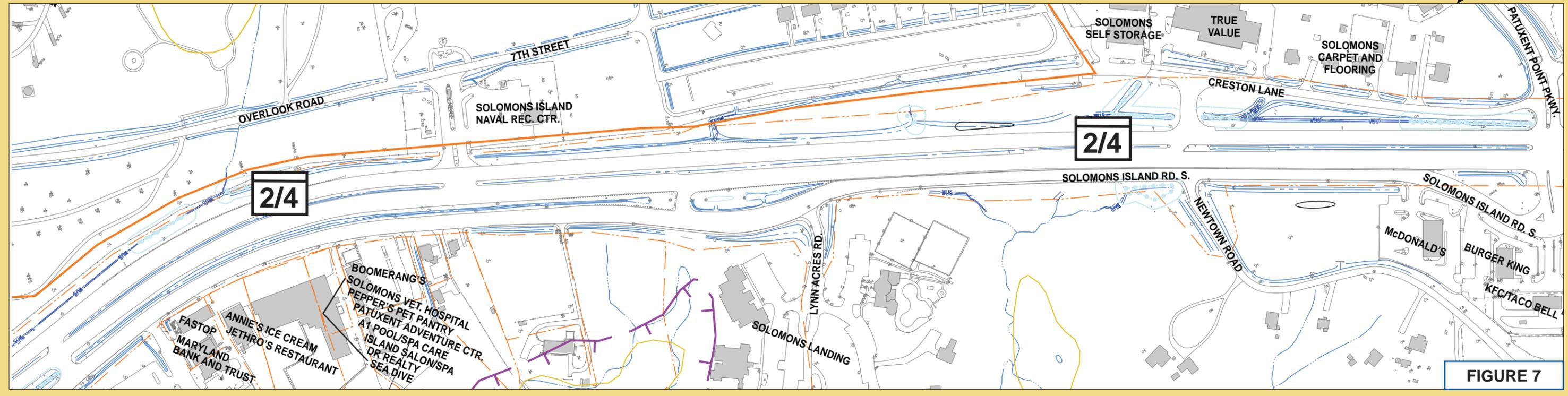


FIGURE 7

# MD 4 MAINLINE, CALVERT COUNTY - ACCESS OPTIONS

## MEDIAN WIDENING OPTION

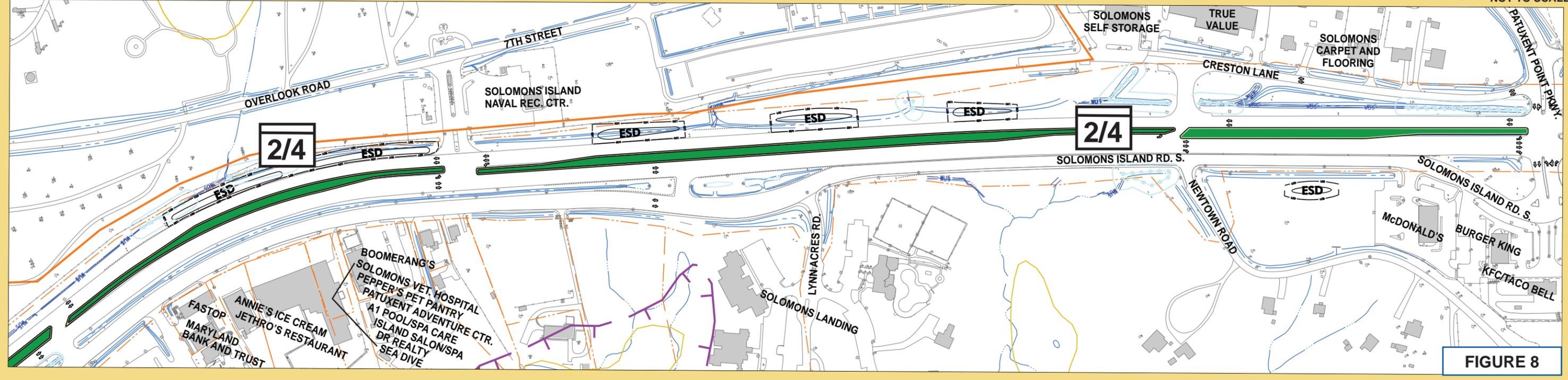
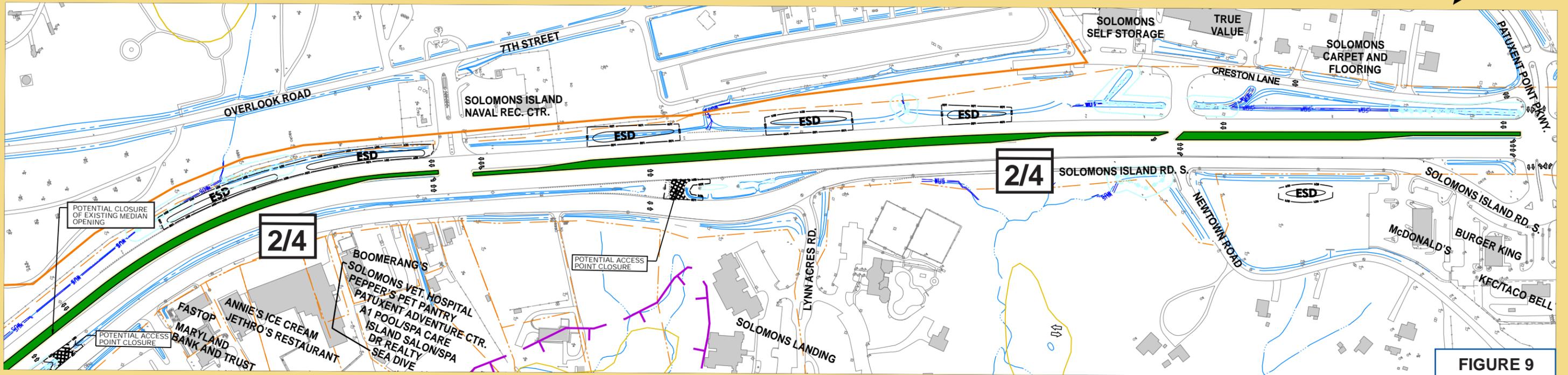


FIGURE 8

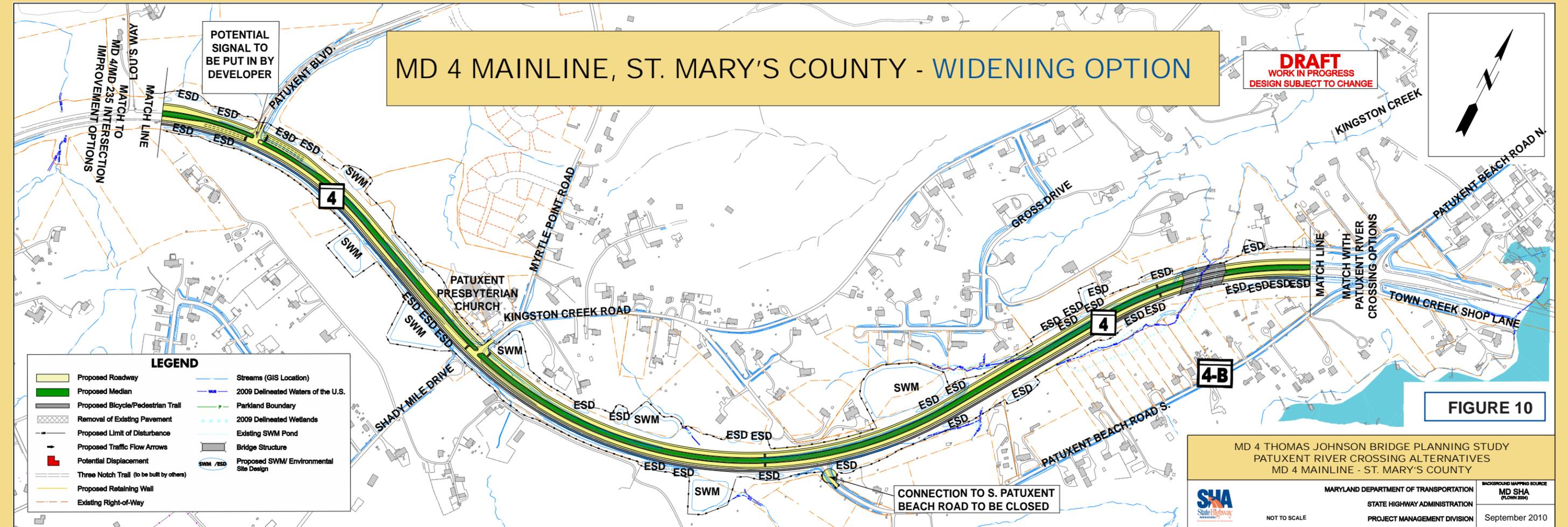
# MD 4 MAINLINE, CALVERT COUNTY - ACCESS OPTIONS (Continued)

## ACCESS CONTROLLED OPTION



**FIGURE 9**  
NOT TO SCALE

# MD 4 MAINLINE, ST. MARY'S COUNTY - WIDENING OPTION



**LEGEND**

	Proposed Roadway		Streams (GIS Location)
	Proposed Median		2009 Delineated Waters of the U.S.
	Proposed Bicycle/Pedestrian Trail		Parkland Boundary
	Removal of Existing Pavement		2009 Delineated Wetlands
	Proposed Limit of Disturbance		Existing SWM Pond
	Proposed Traffic Flow Arrows		Bridge Structure
	Potential Displacement		Proposed SWM/Environmental Site Design
	Three Notch Trail (to be built by others)		
	Proposed Retaining Wall		
	Existing Right-of-Way		

**FIGURE 10**

MD 4 THOMAS JOHNSON BRIDGE PLANNING STUDY  
PATUXENT RIVER CROSSING ALTERNATIVES  
MD 4 MAINLINE - ST. MARY'S COUNTY

**SHA** State Highway Administration

MARYLAND DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
PROJECT MANAGEMENT DIVISION

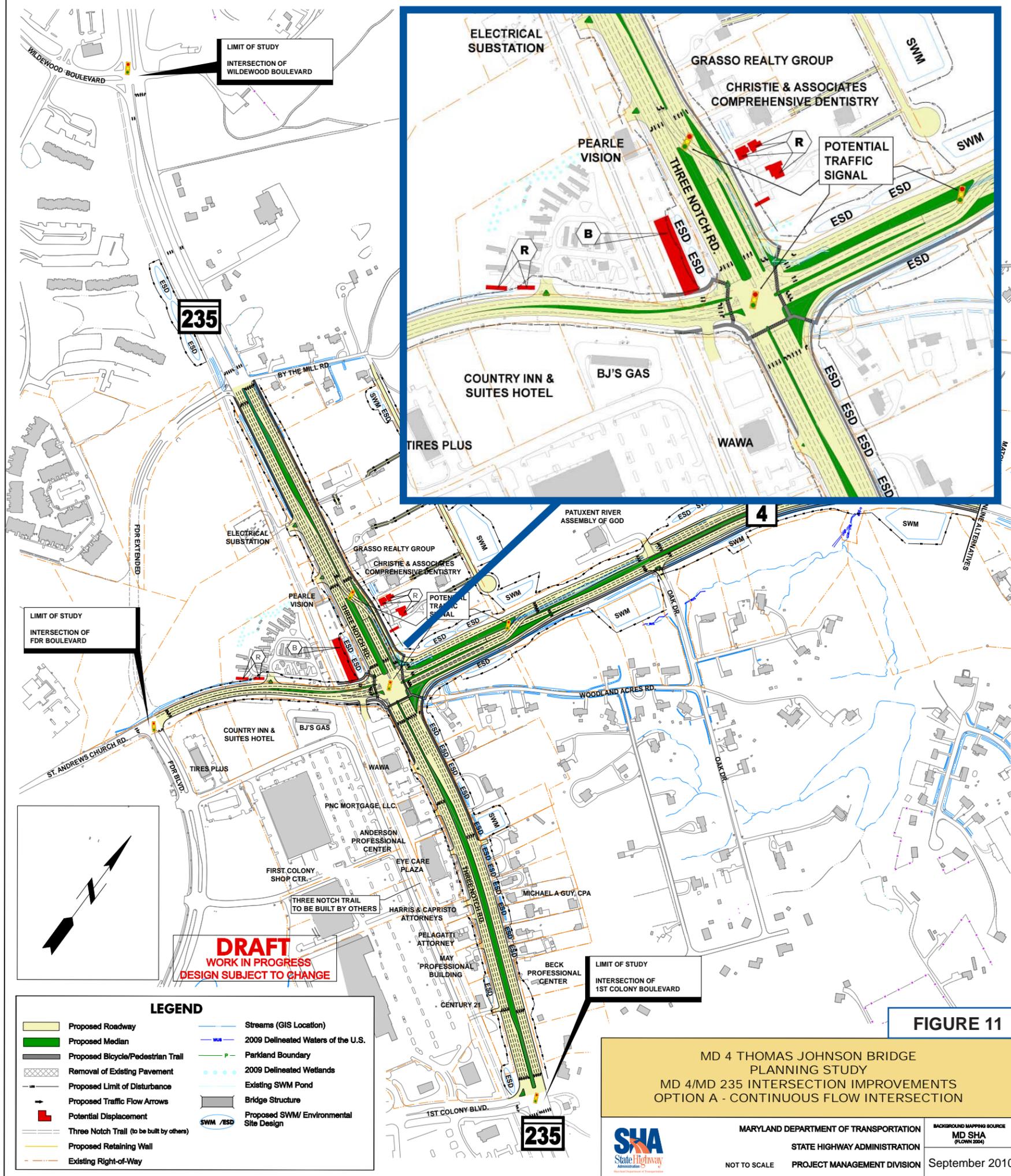
BACKGROUND MAPPING SOURCE  
MD SHA (FLWHS 2009)

NOT TO SCALE

September 2010

# MD 4 THOMAS JOHNSON BRIDGE PLANNING STUDY

## MD 4 / MD 235 INTERSECTION IMPROVEMENTS OPTION A - CONTINUOUS FLOW INTERSECTION



**LEGEND**

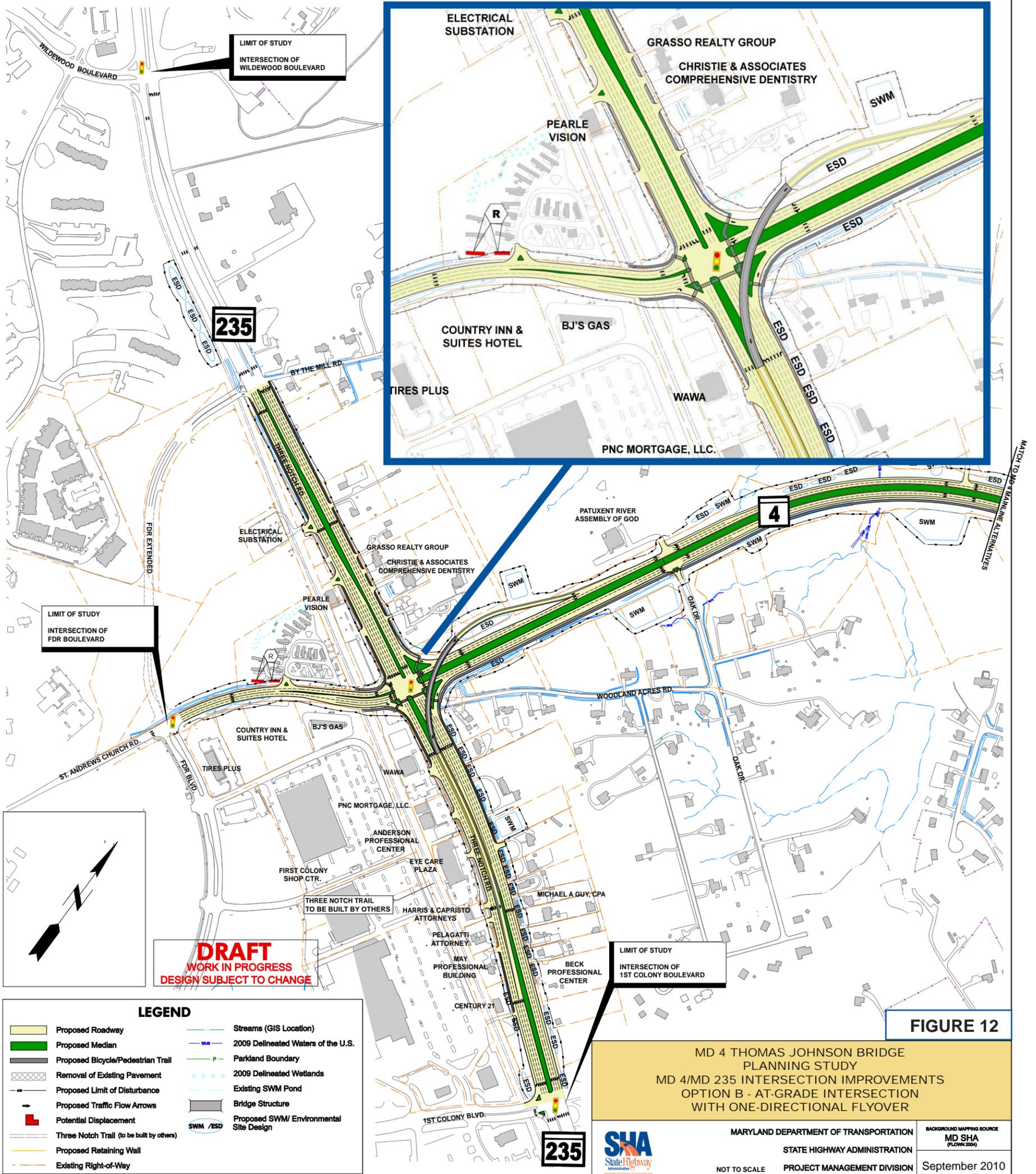
Proposed Roadway	Streams (GIS Location)
Proposed Median	2009 Delineated Waters of the U.S.
Proposed Bicycle/Pedestrian Trail	Parkland Boundary
Removal of Existing Pavement	2009 Delineated Wetlands
Proposed Limit of Disturbance	Existing SWM Pond
Proposed Traffic Flow Arrows	Bridge Structure
Three Notch Trail (to be built by others)	Proposed SWM/Environmental Site Design
Proposed Retaining Wall	
Existing Right-of-Way	

**FIGURE 11**

MD 4 THOMAS JOHNSON BRIDGE  
PLANNING STUDY  
MD 4/MD 235 INTERSECTION IMPROVEMENTS  
OPTION A - CONTINUOUS FLOW INTERSECTION

# MD 4 THOMAS JOHNSON BRIDGE PLANNING STUDY

## MD 4 / MD 235 INTERSECTION IMPROVEMENTS OPTION B - AT-GRADE INTERSECTION WITH ONE-DIRECTIONAL FLYOVER



# MD 4 THOMAS JOHNSON BRIDGE PLANNING STUDY

## MD 4 / MD 235 INTERSECTION IMPROVEMENTS OPTION D - SINGLE-POINT URBAN INTERCHANGE

