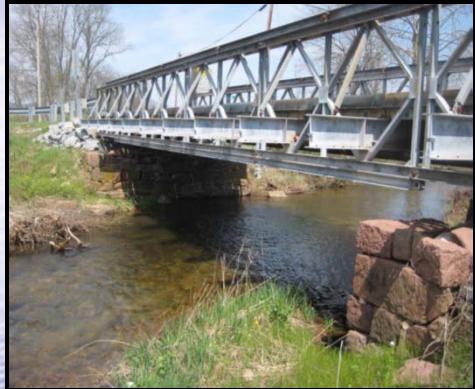




REPLACEMENT OF BRIDGE NO. 15 – 01 ON HESSONG BRIDGE ROAD OVER LITTLE HUNTING CREEK



PUBLIC MEETING
THURSDAY, APRIL 5, 2018
PLEASE SIGN-IN AND TAKE
A COMMENT SHEET



**FREDERICK COUNTY DIVISION OF PUBLIC WORKS
DEPT. OF ENGINEERING AND CONSTRUCTION MANAGEMENT
OFFICE OF TRANSPORTATION ENGINEERING**



PROJECT TEAM

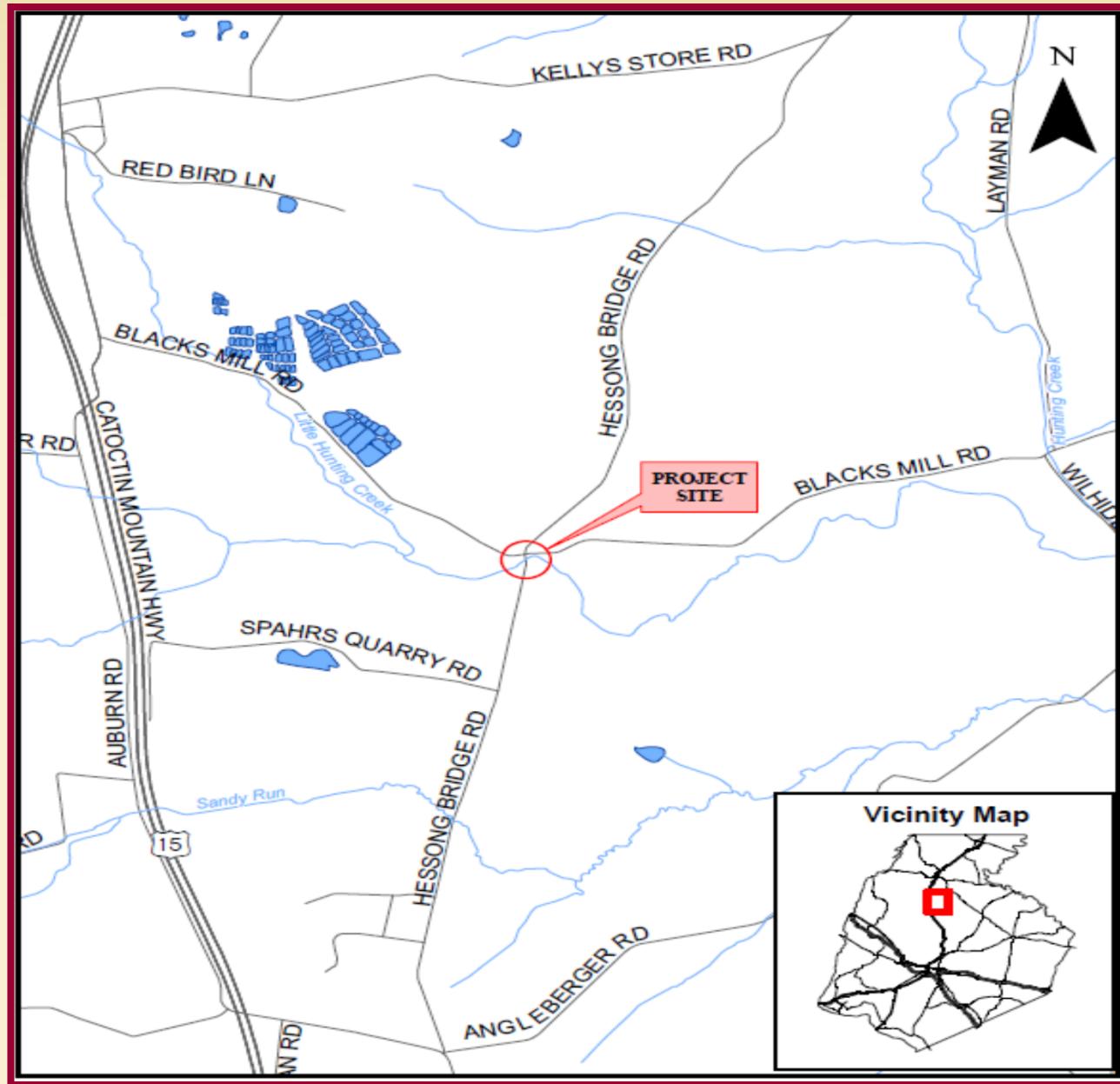
JENNIFER BOHAGER
PROJECT MANAGER

JASON STITT, P.E.
CHIEF

CRYSTAL CHAMBERLAIN
LAND ACQUISITION COORDINATOR

CONTACT INFORMATION PROVIDED IN HANDOUTS

BRIDGE PROJECT LOCATION MAP



MEETING AGENDA

- EXISTING BRIDGE BACKGROUND
- PROJECT OVERVIEW
- SCHEDULE AND BUDGET
- STUDY ELEMENTS
- CONCEPT DESIGNS
- MAINTENANCE OF TRAFFIC (M.O.T.)
- RIGHT-OF-WAY
- PUBLIC COMMENTS/QUESTIONS

EXISTING BRIDGE No. 15-01 BACKGROUND

THURMONT, MARYLAND



- COUNTY CAPITAL IMPROVEMENT PROGRAM PROJECT (CIP)
- EXISTING BRIDGE (INSTALLED 1975)
 - 1-LANE PREFABRICATED STEEL MODULAR TRUSS (ACROW) BRIDGE
 - 65' (IN LENGTH) BY 11' 4" (WIDE), STEEL PLATED DECK
 - LOCATED OVER LITTLE HUNTING CREEK, JUST SOUTH OF BLACKS MILL ROAD INTERSECTION
- HESSONG BRIDGE ROAD – 2-WAY TRAFFIC, 2-LANE COLLECTOR ROAD

PROJECT OVERVIEW

- **PROJECT GOAL:** To replace the 1-lane Acrow Bridge with a new 2-lane bridge meet modern traffic needs and standards
 - DESIGN STORM
 - APPROACH ROADWAY IMPROVEMENTS
 - BICYCLE-COMPATIBILITY
 - LEGAL LOADS
- **TRAFFIC VOLUMES:**
 - 591 ADT (2015)
 - 620 ADT (2018, ESTIMATED)
- **CRASH HISTORY:** No documented crashes at the bridge location from 2011-2015 (latest available crash data)



PROJECT SCHEDULE AND BUDGET

- **STUDY PHASE FY 2017 – 2018: HYDROLOGIC & HYDRAULIC (H&H) STUDY W/ ALTERNATIVES ANALYSIS REPORT**
 - **BUDGET: \$88,300**
- **DESIGN PHASE FY 2019 – 2021: BUDGET: \$213,100**
- **CONSTRUCTION PHASE FY 2021 – 2022: BUDGET: \$1,323,200**
- **FUNDING SOURCES**
 - **FEDERAL 80%/COUNTY 20%: DESIGN & CONSTRUCTION**
 - **COUNTY 100% FOR REMAINING PROJECT ACTIVITIES**

H & H REPORT STUDY ELEMENTS

- **HYDROLOGY/HYDRAULICS**
- **ROAD ALIGNMENT**
- **ROAD TYPICAL SECTION**
- **BRIDGE TYPE**
- **ENVIRONMENTAL IMPACTS**
- **MAINTENANCE OF TRAFFIC**
- **RIGHT-OF-WAY**
- **UTILITIES**



BRIDGE ALTERNATIVES (CONCEPT DESIGNS)

- **ALTERNATIVE 1: TWIN CELL CONCRETE Box CULVERT**
- **ALTERNATIVE 2: SINGLE-SPAN PRESTRESSED CONCRETE SLAB**
- **ALTERNATIVE 3: SINGLE-SPAN PRESTRESSED CONCRETE BEAM**
- **ALTERNATIVE 4: SINGLE-SPAN STEEL BEAM**

ALTERNATIVE 1 – TWIN CELL CONCRETE Box CULVERT



MOUNTVILLE ROAD

ALTERNATIVE 2 – PRESTRESSED CONCRETE SLAB PANEL BRIDGE



BALLINGER CREEK PIKE

ALTERNATIVE 3 – PRESTRESSED CONCRETE BEAM BRIDGE



TERRA FIRMA ROAD

ALTERNATIVE 4 – STEEL BEAM BRIDGE



WATER STREET ROAD

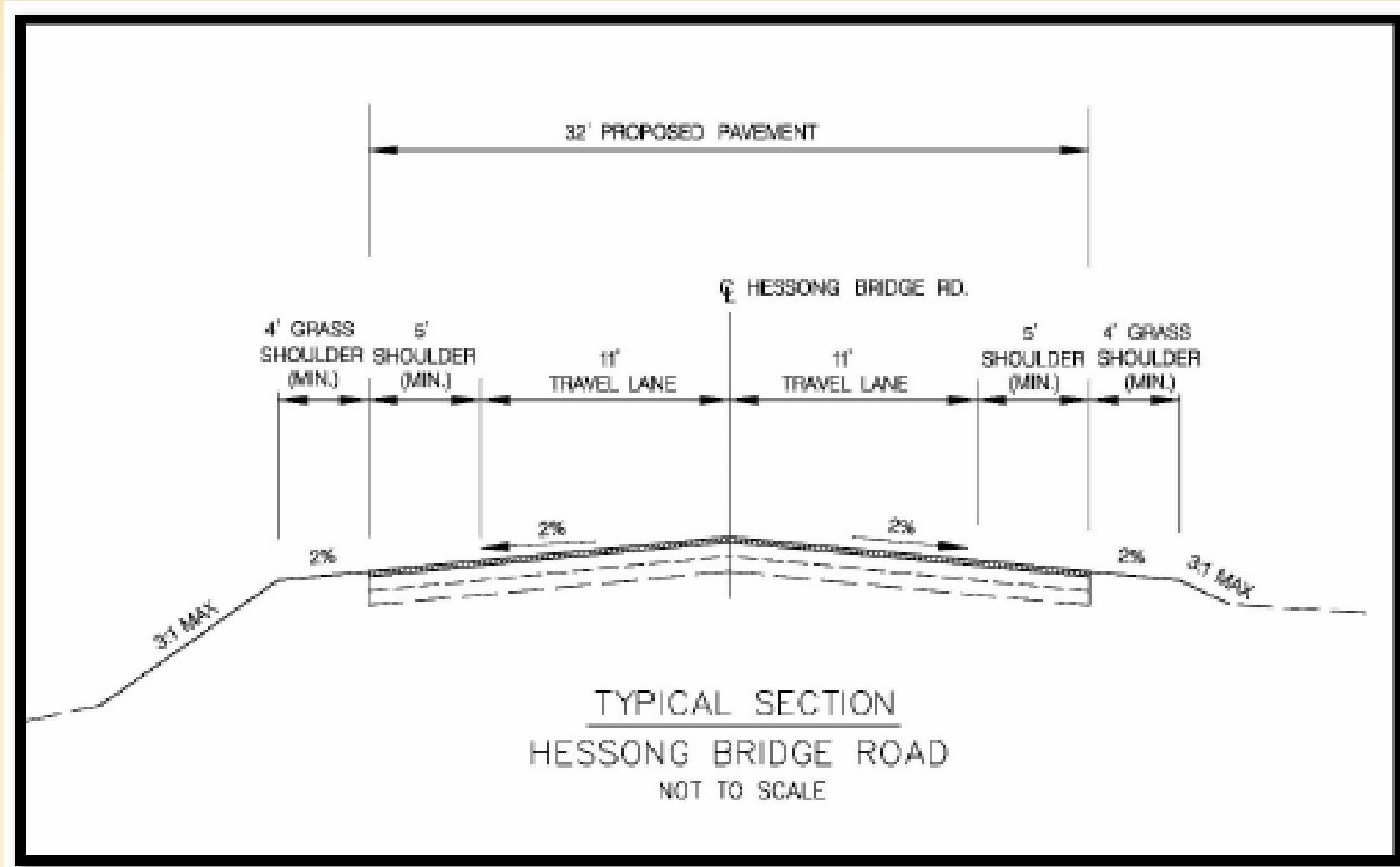
SELECTED CONCEPT DESIGN

ALTERNATIVE 1 IS THE RECOMMENDED ALTERNATIVE PER THE H & H STUDY:

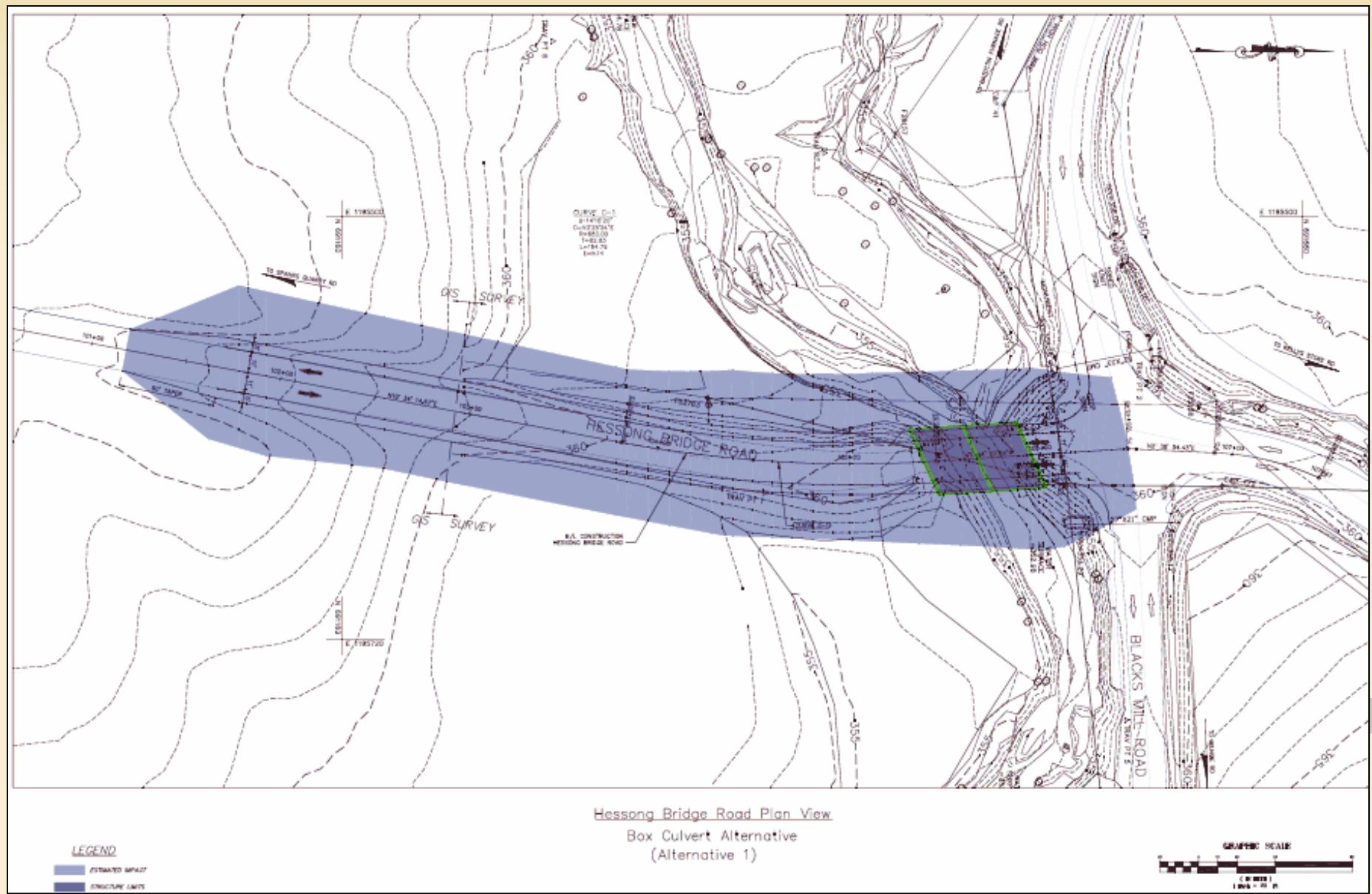


- MINIMIZES DISTURBANCE AND IMPACTS
- WITHIN BUDGET
- ALLOWS FOR FUTURE IMPROVEMENTS TO HESSONG BRIDGE ROAD WITH MINOR ROADWAY ALIGNMENTS ON APPROACHES, PARTICULARLY ON THE NORTH SECTION

ALTERNATIVE 1 – PROPOSED TYPICAL SECTION

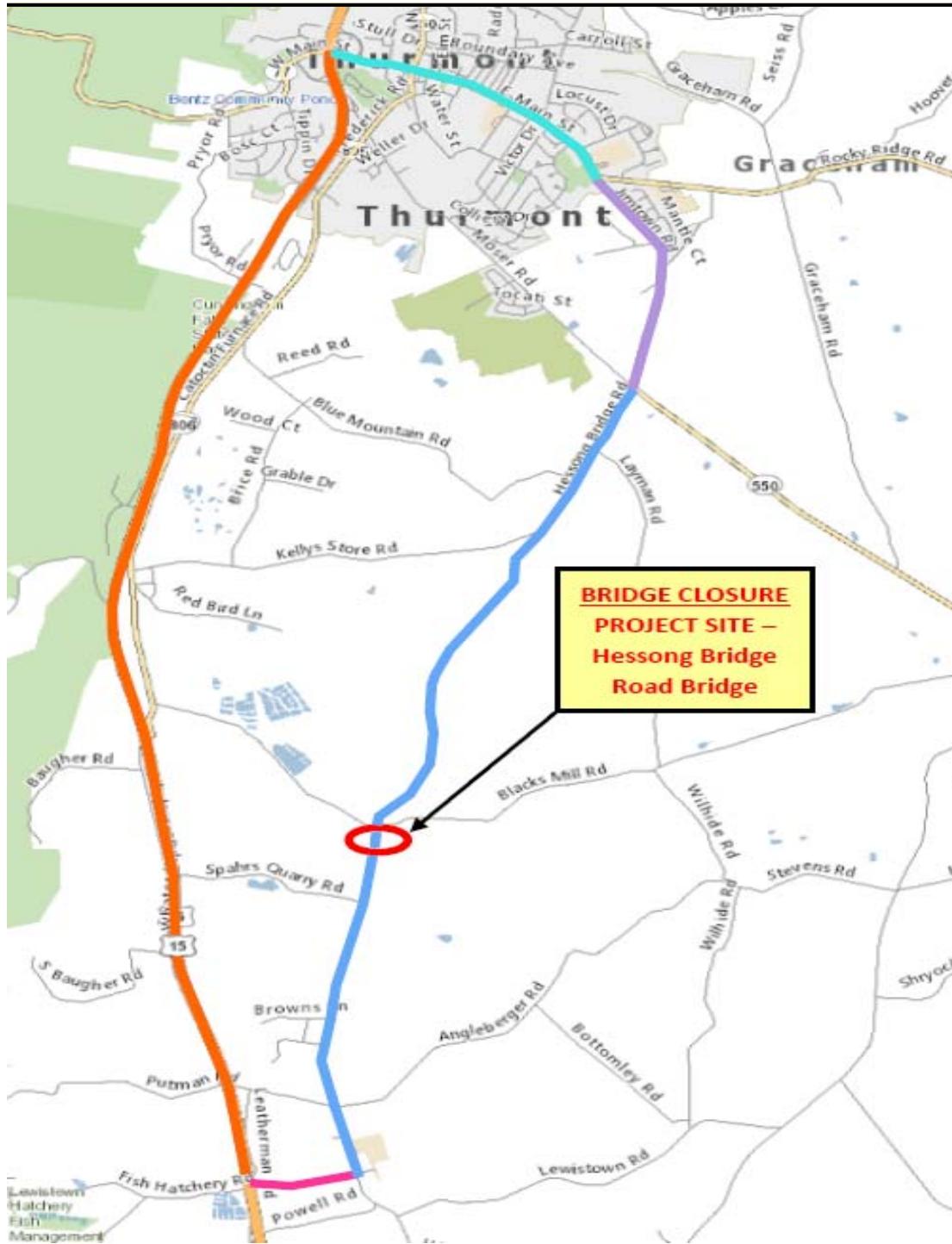


ALTERNATIVE 1 – CONCEPT BRIDGE PLAN VIEW



MAINTENANCE OF TRAFFIC

- **H & H STUDY SUGGESTS AND RECOMMENDS USING A DETOUR:**
 - **MAXIMIZES SAFETY FOR MOTORISTS AND WORKERS**
 - **LOW TRAFFIC VOLUMES**
 - **MINIMIZES IMPACTS**
 - **CONSTRUCTABILITY AND MOT**
 - **COST EFFECTIVE**
- **DETOUR COORDINATION:**
 - **STATE HIGHWAY ADMINISTRATION**
 - **EMERGENCY SERVICES**
 - **FREDERICK COUNTY PUBLIC SCHOOLS**
 - **PUBLIC INPUT**



SIGNED DETOUR ROUTE UTILIZES:

- **HESSONG BRIDGE ROAD**
- **FISH HATCHERY ROAD**
- **U.S. 15 (CATOCTIN MOUNTAIN HWY)**
- **MD 77 (EAST MAIN STREET)**
- **MD 550 (JIMTOWN ROAD)**

RIGHT-OF-WAY

- **4 POTENTIALLY IMPACTED PROPERTIES**
- **RIGHT-OF-WAY AND OTHER EASEMENT NEEDS ARE DETERMINED DURING FINAL DESIGN PHASE**
- **COORDINATION WITH IMPACTED PROPERTY OWNERS OCCURS THROUGHOUT THE DESIGN PROCESS**
- **AFTER RIGHT OF WAY NEEDS ARE DETERMINED, APPRAISALS ARE COMPLETED AND OFFERS ARE MADE**
- **RIGHT-OF-WAY HANDOUT IS AVAILABLE IF INTERESTED**

COMMENTS/QUESTIONS?

- **PLEASE BE SURE TO PUT YOUR COMMENTS IN WRITING!**
- **COMMENTS CAN BE PROVIDED TODAY OR BY APRIL 20, 2018**
- **MEETING MINUTES FROM THIS MEETING, INCLUDING COMMENTS AND RESPONSES, WILL BE ISSUED TO EVERYONE ON THE SIGN-IN SHEET**

THANK YOU FOR YOUR TIME