

PRELIMINARY DESIGN AND ASSESSMENT OF
STREAM CROSSINGS AND ENCROACHMENTS

COUNTY _____ PROJECT NUMBER _____

STREAM _____ ROUTE _____

ASSESSMENT PREPARED BY _____ DATE _____

HYDROLOGIC EVALUATION

NEAREST GAGING STATION ON THIS STREAM _____ (NONE ____)

ARE FLOOD STUDIES AVAILABLE ON THIS STREAM: _____

FLOOD DATA:

Q₁₀ ____ CFS EST. BKWTR. ____ FT. Q₂₅ ____ CFS EST. BKWTR. ____ FT.

Q₅₀ ____ CFS EST. BKWTR. ____ FT. Q₁₀₀ ____ CFS EST. BKWTR. ____ FT.

Q₅₀₀ ____ CFS OR OVERTOPPING CFS EST. BKWTR. ____ FT.

DRAINAGE AREA _____ METHOD USED TO COMPUTE Q _____

PROPERTY RELATED EVALUATIONS

DAMAGE POTENTIAL: LOW _____ MODERATE _____ HIGH _____

COULD THIS BE SIGNIFICANTLY INCREASED BY PROPOSED

ENCROACHMENT: YES _____ NO _____

EXPLANATION: _____

LIST BUILDINGS IN FLOOD PLAIN _____ LOCATION _____

FLOOR ELEVATION _____

UPSTREAM LAND USE _____

ANTICIPATE ANY CHANGE? _____

ANY FLOOD ZONING? (FIA STUDIES, ETC.) YES _____ NO _____

TYPE OF STUDY _____

BASE FLOOD ELEVATION _____ (100 YEAR)

REGULATORY FLOODWAY WIDTH _____ (AS NOTED IN FIA STUDIES)

COMMENTS: _____

TRAFFIC RELATED EVALUATIONS

PRESENT YEAR _____ TRAFFIC COUNT _____ VPD _____ % TRUCKS _____

DESIGN YEAR _____ TRAFFIC COUNT _____ VPD _____ % TRUCKS _____

EMERGENCY ROUTE _____ SCHOOL BUS ROUTE _____ MAIL ROUTE _____

DETOUR AVAILABLE? _____ LENGTH OF DETOUR _____ MILES

DOES THE LEVEL OF TRAFFIC SERVICE OF AN EXISTING CROSSING VARY GREATLY FROM STANDARD DESIGN LEVELS? _____

IS THE TRAFFIC VOLUME, TYPE, USAGE SUCH TO WARRANT CONSIDERATION FOR VARIANCE FROM STANDARDS OR EXISTING LEVEL OF INTERRUPTION? _____

COMMENTS: _____

HIGHWAY AND BRIDGE (CULVERT) RELATED EVALUATIONS

NOTE ANY OUTSIDE FEATURES WHICH MIGHT AFFECT STAGE, DISCHARGE OR FREQUENCY.

LEVEES _____ AGGRADATION/DEGRADATION _____ RESERVOIRS _____

DIVERSIONS _____ DRAINAGE DISTRICT _____ NAVIGATION _____

BACKWATER FROM ANOTHER SOURCE _____

EXPLANATION: _____

ROADWAY OVERFLOW SECTION (NONE _____) LENGTH _____ ELEVATION _____

EMBANKMENT: SOIL TYPE _____ TYPE SLOPE COVER _____

COMMENTS: _____

ENVIRONMENTAL CONSIDERATIONS

LIST SPECIAL CONDITIONS OR CONSIDERATIONS WHICH AFFECT HYDRAULIC DESIGN (NONE _____)

MISCELLANEOUS COMMENTS

IS THERE UNUSUAL SCOUR POTENTIAL? YES ___ NO ___ PROTECTION NEEDED ___

ARE BANKS STABLE? _____ PROTECTION NEEDED ___

DOES STREAM CARRY APPRECIABLE AMOUNT OF LARGE DEBRIS? _____

COMMENTS:

ALTERNATIVES

RECOMMENDED DESIGN _____

DETOUR STRUCTURE _____

LOW ROADWAY GRADE _____ DETOUR GRADE _____

BRIDGE WATERWAY OPENING _____ CULVERT OPENING _____

WERE OTHER HYDRAULIC ALTERNATES CONSIDERED? YES _____ NO _____

DISCUSSION: _____

THIS SITE ASSESSMENT INDICATES THE DESIGN SHOULD FOLLOW:

- (1) _____ NORMAL PROCESS
- (2) _____ NORMAL PROCESS WITH SPECIAL SPECIFIC CONSIDERATION FOR

- (3) _____ SPECIFIC DESIGN PROCESS WITH APPROPRIATE RISK/ECONOMIC
EVALUATION ADDRESSING: _____