Spreadsheets & Culvert Hydraulics (HY-8)
for Culverts with Natural Bottoms

--- Draft “Information to be Presented” ---

Dates: April 13 & 14, 2017
Time: 8:30 am to 4:30 pm
Location: Bangor Motor Inn, Bangor

2-day training session emphasizing data analysis, preliminary design and hydraulics for culverts with natural bottoms. Training will include numerous in class exercises. To get the full benefit from this training you will need to bring a laptop with Microsoft Excel & HY-8 already loaded. Laptop security should be set to allow Excel macros to be loaded and enabled.

**Spreadsheets:**

Pre-programmed/interactive spreadsheets to allow the user to:

- Automatically graph selected features from digital survey data (total station data or properly formatted level survey data).
- Data analysis to assist with Reference Reach selection.
- Graphically based maximum scour depth analysis.
- View survey data graphically to assist in proper siting of new/replacement culvert.
- Extract and make-ready HY-8 input data from survey data.
- In conjunction with HY-8, present data to allow designers to properly size new/replacement culvert.

**HY-8 Culvert Hydraulics:**

- Basic hydraulics
- Data requirements.
- Several methods for selecting a Manning’s n for a stream segment.
- How to design a natural bottom inside a culvert to obtain desired Manning’s n.
- How run the program and understand the results.