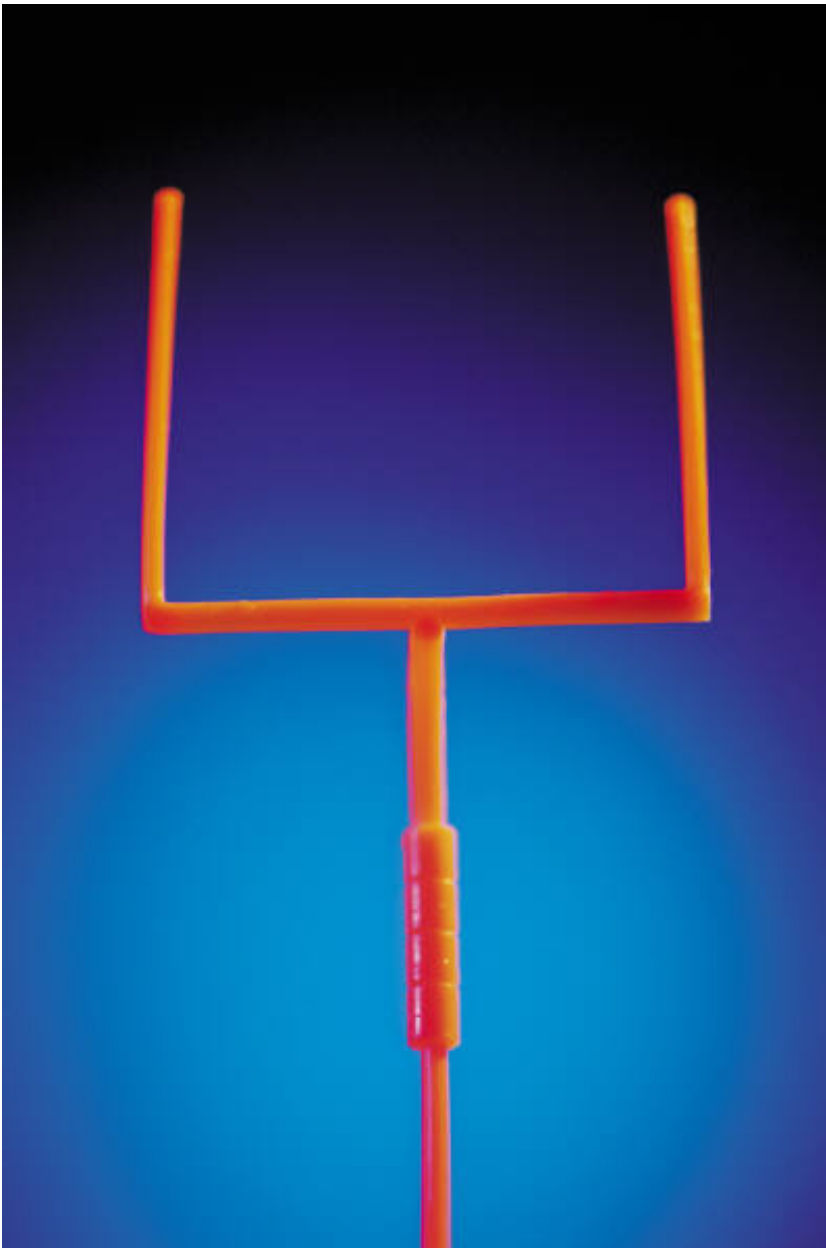


# Critical Components of Storm Pipe Infrastructure Inspection Program

For Session B3 - Sustainability through Asset Management





## GOALS

- Encourage Action
- Share Experience
- **Program**
- **Components**
- **Resources**

# Pipes, Culverts, Storm Drains



# WHAT ABOUT BRIDGES NO ONE SEES????





# REQUIRED INSPECTION PROGRAM COMPONENTS

- **WHAT** - to Inspect
- **HOW** – Techniques & Tools
- **COLLECT** Data – Report Requirements
- **ACTION ?** - Evaluation Criteria

eating our



elephant

# Gather Data – Know your Assets

---

- **Initial Inspection – Locate & Gather Basic Data**
- **Consider Risk**
  - **ADT**
  - **LOCATION**
  - **SIZE**
  - **DEPTH**
- **Complete Follow-up Inspections**
  - **High Risk to Low Risk**
- **Evaluate**



# Part 1 - Tools and Techniques

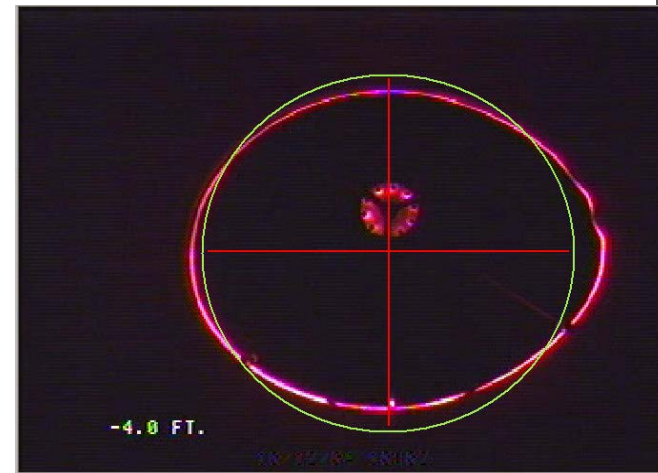
## Inspection Methods



# Tools – Man-Way Access (Pipe 36" + up)



# TOOLS – Remote Access (less than 36")



# MAKE DECISION & PLAN

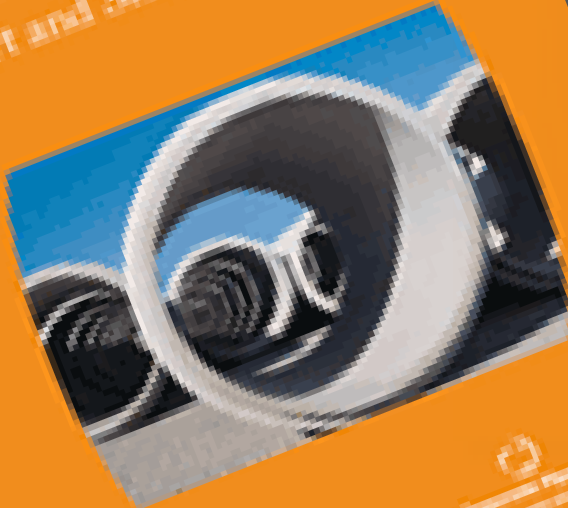
- Evaluate It
- OK
- Ok but Future Follow-up
- Repair It
- Or Schedule Replacement

# Evaluation Guidelines – A Must Have for Inspection Program!



# Evaluation Tools

Sample Specification for  
Evaluation of Newly Installed  
Culvert and Storm Drainage Pipe



Evaluation and Repair  
Guidelines for  
New Drainage Pipe

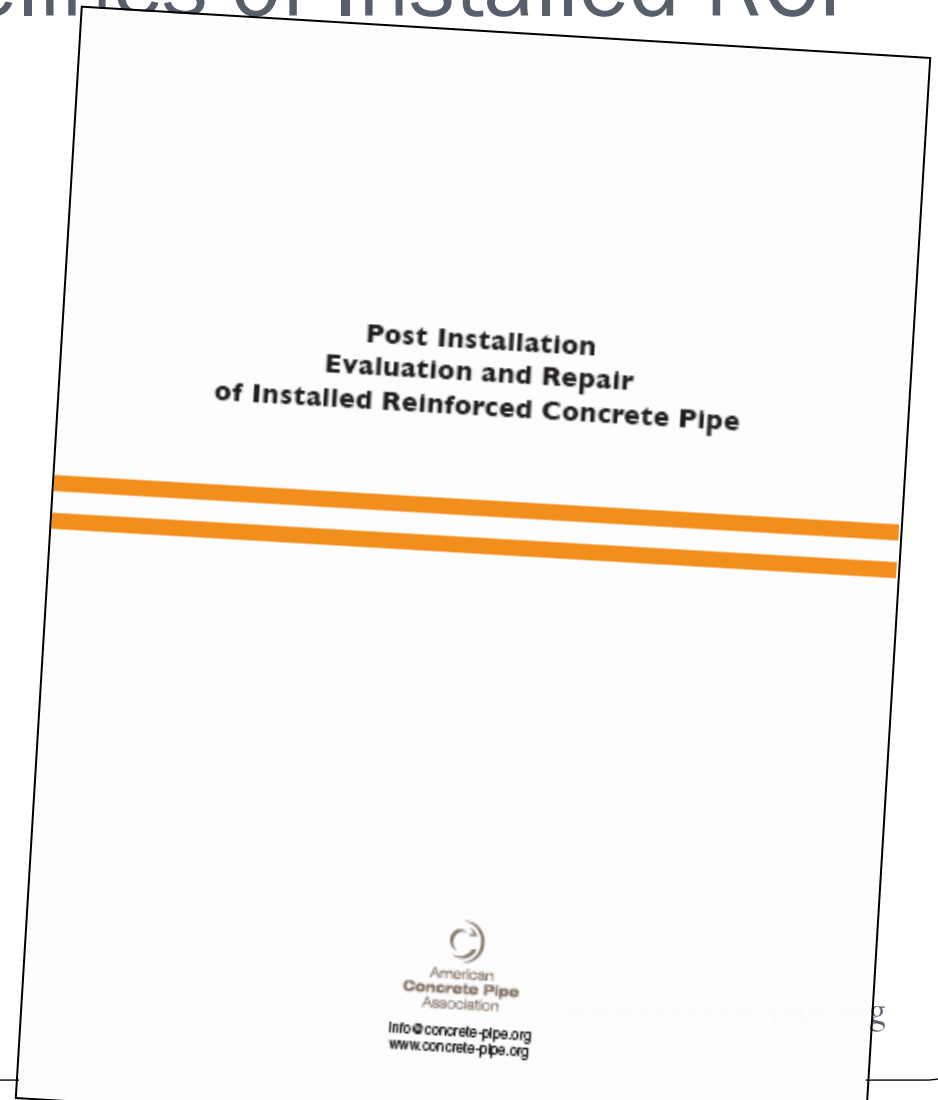


Post Installation  
Evaluation and Repair  
Installed Reinforced Concrete Pipe

American  
Concrete Pipe  
Association  
www.concrete-pipe.org  
www.concrete-pipe.org

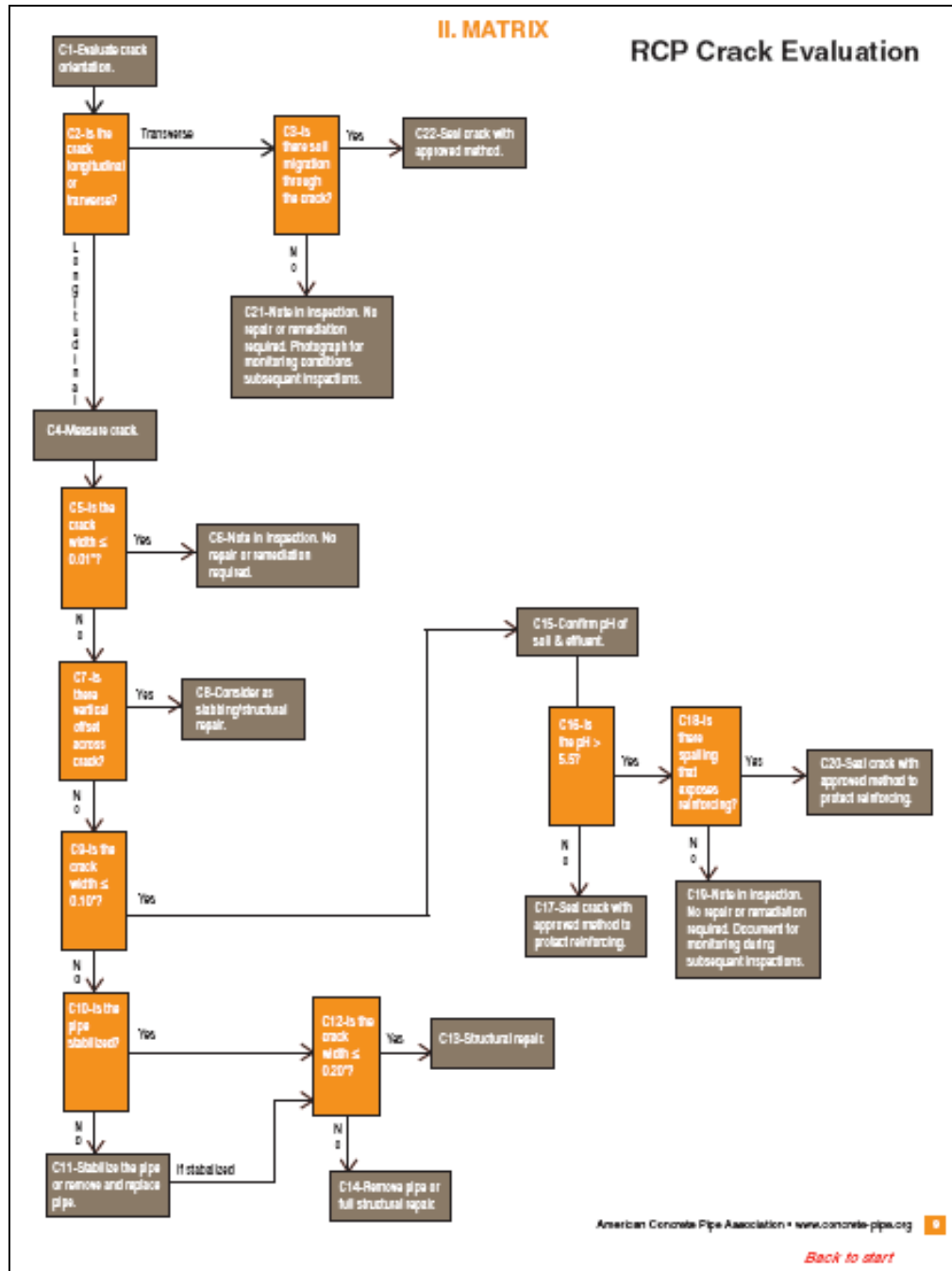
# “Post Installation Evaluation and Repair Guidelines of Installed RCP”

- **Text Book**



## II. MATRIX

### RCP Crack Evaluation





# Other Recourses and Tools

- New National Guidelines Available...AASHTO Const.
  - Pipe Inspection and Evaluation Guidelines are available from AASHTO Subcommittee of Construction
- NASSCO-PACP
- Coming Soon...Updated FHWA Culvert Inspection Manual – NCHRP 14-26

**DON'T TAKE THIS THE WRONG  
WAY, BUT...**



**GO STICK YOUR HEAD IN SOME  
PIPE!!!!**