



OTEC 2007  
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# Session 23: Leveraging Electronic Plan Data Tiff Image Submissions

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# Background

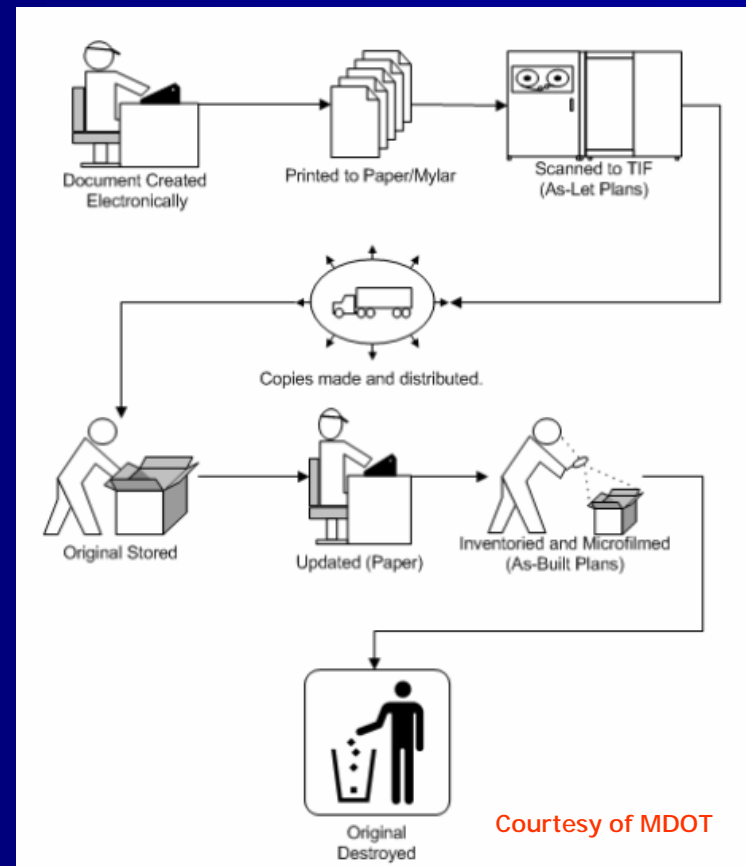
- In 2006 ODOT recognized that an electronic solution to the growing problem of storing future mylar tracings needed to be pursued.
- Over the last year, the Department examined an alternative solution to using mylar sheets for final plan submissions.
- ODOT established a series of incremental steps to identify a process where the District offices could submit plans via TIFF images in lieu of mylar tracings.

# Background

- Traditional method of creating and submitting mylar tracings is a costly and time consuming process which yields limited benefit over that of today's electronic opportunities.
- Current process:
  - District prints mylars and scans a "District" copy on the District server (Tiff type and orientation vary)
  - Central Office receives mylars from the District and **rescans** the sheets on the Central Office server for plan processing and web posting
  - Any revisions follow the same process
  - Once the project is sold, the original mylars are returned to the District for archiving and storage
- The Department invests over **\$500,000** per year just to produce mylar tracings.

# Background

A Plan's Life  
Cycle:  
Beginning to End



# Background

- Utilize existing technology available to in-house design staff and consultants to create image files
- Recommend advancing the submissions of final plans as TIFF images instead of mylars

# Goals

## Reasons for advancing electronic submissions:

- Address limited storage capacity
- Streamline the plan delivery process
- Provide an efficient mechanism to process plan revisions
- Eliminate mylar expense associated with final plans
- Physical labor to print and deliver mylar plans
- Time required to plot final tracings
- Provide a platform for digital plan archiving
- Electronic files provide greater functionality to access historic data

# Getting Started

- Access the following web page for all tiff related documentation and guidelines:
  - [www.dot.state.oh.us/cadd/tiff/](http://www.dot.state.oh.us/cadd/tiff/)
- Several user guides have been established to assist the designer on how to create the files and where to submit the final tracings

# Initial Submission

- Create a check set of plans
  - Projects less than 400 sheets:
    - District's discretion to create a check set of plans
  - Projects greater than 400 sheets:
    - Create ten (10) random images
    - Notify Tina Collins for image review
  
- Copy the tiff files to the Central Office server
  - \\CTRFS100\D01\$
    - Plans
      - CTY-PID
  - Each District has their own image folder with write access

# Initial Submission

- Submit the final plan package
  - Projects less than 400 sheets
    - District's discretion to submit plans early
  - Projects greater than 400 sheets
    - Required to submit plans one working day early for plotting consideration at Central Office
  - Title sheet (Per **ORC 4733.14** Engineers signature/seal can be transmitted electronically)
    - Scan a copy of the District signed title sheet and place the image on the Central Office Server
    - Contracts will print the scanned image and forward the document to the ODOT Director for final signature
    - After the ODOT Director signs the title sheet, the revised sheet will be scanned replacing the previous version

# Moving beyond today

- All In-House projects are required to be submitted as tiff images
- Beginning in the first quarter of 2008, all projects (in-house and consultant design) will be required to follow the Tiff Submission procedure
- Technical assistance is available from Central Office
  - Iplot Settings / Server Configuration:
    - Jack Kerstetter
      - Jack.Kerstetter@dot.state.oh.us
  - File Creation/Procedure:
    - Ed Kagel
      - Ed.Kagel@dot.state.oh.us
  - File Submissions/QC Issues:
    - Tina Collins
      - Tina.Collins@dot.state.oh.us

# Questions

