

# NexGen Plans Non-Standing Subcommittee Spring FUCC Meeting

## Agenda

- Discussion on Concerns, Needs and Solutions about NexGen Plans and Utility Coordination Efforts
  - Utility Agency Owners
  - Engineers of Record / Utility Coordinators
  - Permitting / Construction
- Possible Solutions
- Response Recommendation for FUCC
- Determine meeting schedule moving forward
- Open Discussion

### General Housekeeping:

- Raise Hand if you want to speak
- Please be sure to sign-in on the sign in sheet

### Notice:

- We have a diverse grouping of individuals attending from many facets within the industry. It is important to note that the opinions expressed in this meeting are that of the individual. Consultants participating in the discussion are not speaking on the behalf of or representing the FDOT or any other agencies during the discussion.

# NexGen Plans Non-Standing Subcommittee Spring FUCC Meeting

## Links

- FDOT Model-Centric Plans
  - <https://www.gotostage.com/channel/5f598fa79fb84067b1a7bd573efabcf1/recording/ca7c98cabafd438390bcf915c249900c/watch?source=CHANNEL>
- FDOT Connect – Creating Utility Worksheets
  - YouTube Video : <https://youtu.be/JPU5hXFO2Yg>
  - Presentation: [https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/cadd/downloads/webinars/files/microstation-connect/fdotutilityworksheets.pdf?sfvrsn=8e517c41\\_\\_2](https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/cadd/downloads/webinars/files/microstation-connect/fdotutilityworksheets.pdf?sfvrsn=8e517c41__2)
- FDOT Design Manual – Refer to 2023
  - <https://www.fdot.gov/roadway/fdm/default.shtm>
- FDOT UAM
  - [https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/programmanagement/utilities/docs/uam/uam2017.pdf?sfvrsn=d97fd3dd\\_0](https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/programmanagement/programmanagement/utilities/docs/uam/uam2017.pdf?sfvrsn=d97fd3dd_0)

## General Housekeeping:

- Raise Hand if you want to speak
- Please be sure to sign-in on the sign in sheet

## Notice:

- We have a diverse grouping of individuals attending from many facets within the industry. It is important to note that the opinions expressed in this meeting are that of the individual. Consultants participating in the discussion are not speaking on the behalf of or representing the FDOT or any other agencies during the discussion.

# NexGen Plans Non-Standing Subcommittee Spring FUCC Meeting

## Industrywide Concerns & Needs

- FDOT has not provided documentation, mandate or State Statute
  - No documentation has been provided requiring the UAO to mark-up large format plans
  - No documentation has been provided with format change
  - Insufficient notification to UAOs has been given
  - UAO industry not consulted on the change
  - No opportunity to review the changes and provide input
  - No time provided for transition for UAOs
  - It will cost the utility agency additional time and money to meet the demands of the department
  - In UAM 5.1.2, it states that the project drawings are provided to the UAO for markup in an agreeable format.
    - This is not a format that was agreed on by everyone
    - This was not discussed with the UAOs prior to implementation
    - There was not understanding of what is needed to properly coordinate a project by the FDOT

# NexGen Plans Non-Standing Subcommittee Spring FUEC Meeting

## Industrywide Concerns & Needs

- Large Format Paper Size – 3 ft by 4 ft, 3 ft by 6 ft
  - Change in plans - margin of error significantly increased
  - The small utilities are where the biggest challenge comes into play as the utility coordinators can't get them to provide what is needed today before the introduction of large format
  - Concern that this may create more delay claims if the UAO is not able to mark-up plans correctly. This will cause more time and money to be spent. Need accurate 11x17 plans
  - 6 ft roll plot is too big for truck and field personnel to use in the field
  - Tile printing does not help
  - No easy way to scale down
    - Plan sheets that fit to print into an 11x17 format are not printing to scale
  - Large Format Roll Plot not useful
  - Most utilities do not have plot printers to print plans



# NexGen Plans Non-Standing Subcommittee Spring FUECC Meeting

## Industrywide Concerns & Needs

- Not many NexGen projects to date
  - Limited experience with the NexGen Plans to properly evaluate them and their concerns.
  - Worried there will be more concerns before resolution
  - Need a real-world example of NexGen Plans – physical print
- Utility Work Sheets
  - Labeling issue what the line work represented Existing R/W, Centerlines, north arrow, scales, callouts – concern regarding the higher amount of callouts for the 11x17 utility work sheets (560 ft per sheet) than the large format (2300 ft per sheet) – both from providing a document similar to what has been provided in the past, as well as a level of effort for EOR for units/staff hour concern. Duplicate linework.
    - Concern that utility worksheets will not contain the same information that was provided previously
    - Need to ensure that the effort for the utility worksheets is there, as well as an understanding that the utility adjustment sheets effort is not a Tab 7 unit/staff hours and should be in Tab 5 unit/staff hours

# NexGen Plans Non-Standing Subcommittee Spring FUCC Meeting

## Industrywide Concerns & Needs

- Drainage Structure Sheets
  - Concern with change to drainage structures sheet and missing information
  - No longer able to gauge proximity or constructability concerns with pipes and structures
    - Missing drawn drainage section with VVH data and existing and proposed utility facilities
  - Unable to put together a picture of the proposed drainage structure by only using profile, table and FDOT Standard Plans, which increases the margin of error
  - Utility unable to properly review the plans to determine if conflicts resolved. Most utility coordinators and UAO staff are not engineers.
  - Concern with increased liability for the EOR since the Utilities have “less information” that they can review in the plans
  - No information for orientation and bottom elevations of structures



# NexGen Plans Non-Standing Subcommittee Spring FUCC Meeting

## Industrywide Concerns & Needs

- Cross Sections Sheets
  - Concern has arisen that, now during negotiations for the EOR, the roadway cross sections (5.16 – Cross Sections) are being removed from the roadway negotiations for projects that are model centric
  - Concern roadway cross sections are not in final plan deliverable
  - Missing drawn roadway cross section with VVH data and existing and proposed utility facilities
- FDOT's Plan Format inconsistent to other agency partners
  - Other agencies like local and county agencies are keeping with their plan size format
- Large File size of the NexGen Plans
  - Concerns with timing out on downloads and uploads to PSEE and OSP
  - We are experiencing significant delay in downloading Nex Gen Plans, which may lead to increase UAO bandwidths

# NexGen Plans Non-Standing Subcommittee Spring FUCC Meeting

## Industrywide Concerns & Needs

- **Permitting Concerns with FDOT's ONE STOP Permit site**
  - FDOT's One Stop Permit requires 8.5x11 or 11x17 sized plan sheets to apply and bore logs to close out Utility Permit Applications (whenever directional drill method is utilized for install).
  - What are the file size limits for permitting in ONE STOP?
  - 11x17 Road Plans are used by our construction personnel. They can no longer use these plans in a large-scale format.
  - How do UAO's update RGB/ UWS when the final plans does not have access to cross sections or drainage sheets in final plans?
  - With the cross sections and drainage sections missing, how does the utility determine their proposed path and depth to ensure no conflicts with any road contractor work is foreseen especially when placing drainage structures
- **Concern with electronic format**
  - Most utilities only use PDF Format, not MicroStation or AutoCAD
  - Typically, FDOT Projects are MicroStation (.DGN)
  - Utilities that use CAD software mostly use AutoCAD (.DWG) or a software other than MicroStation
  - MicroStation to AutoCAD Conversions in OpenRoads Designer (ORD) has some issues with being Geospatially correct

# NexGen Plans Non-Standing Subcommittee Spring FUCC Meeting

## Industrywide Concerns & Needs

- Costs associated with purchasing technology to support NexGen
  - Cost prohibitive for UAOs to purchase tablets or laptops
  - Costs associated with training UAO personnel on how to use equipment
  - Costs associated with technology savvy personnel
  - UAOs do not have plotter
  - Cost prohibitive to send to printing company for UAO
  - UAOs are burdened with these additional cost
  - UAOs will need to purchase applications and licensing agreements
  - Locators would require a PDF version of Plans for fielding purposes
    - Pinpoint locations of pedestals, cables, manholes and handholes



# NexGen Plans Non-Standing Subcommittee Spring FUEC Meeting

## Possible Solutions

- One solution is to utilize a tablet when working in the field
  - This will force UAO's to purchase the tablets with data plans and any required programs. The utility would have to train the personnel to utilize the information. (Additional part-time or full-time training personnel may be required to implement these changes). In a world where companies are trying to cut cost, these are unnecessary expenses that most utilities do not want to cover.



# NexGen Plans Non-Standing Subcommittee Spring FUCC Meeting

## Response Recommendation for FUCC

- The committee has recommended to the FUCC Steering Committee to formulate a response to the FDOT from FUCC.
- The recommendation was:
  - The Summary of Concerns that were transmitted on March 31, 2023 captures the industry concerns presented by the attendees of the last three non-standing subcommittee meetings and discussions brought up during the Fall 2022 FUCC Meeting. The Non-Standing Subcommittee recommends that the FUCC Steering Committee submit a letter to FDOT requesting them to develop a solution for the NexGen Plans that addresses the concerns and input we received from industry.

Thank You!  
We Appreciate Your  
Time in Helping to  
Find Solutions!

Co-Chairs

Shaun Purvis, AT&T Florida  
Email: [sp76lp@att.com](mailto:sp76lp@att.com)

Melonie Schwartz, Inwood  
Email: [mschwartz@inwoodinc.com](mailto:mschwartz@inwoodinc.com)

NexGen Plans  
Non-Standing  
Subcommittee  
Spring FUCC  
Meeting