* 1. Which organization do you work for?

- AJW-22
- AJW-23
- AJW-24
- AJW-25
- AJW-26
- AJW-28
- AJW-29
- AJW-2E1
- AJW-2C1
- AJW-2W1

* 2. Which group do you work in?

- Terminal/Surveillance/Weather
- EnRoute
- Communications
- NAVAIDS
- Infrastructure
- OPS Infrastructure
- Support

* 3. How long have you been engineering?

- 0-5 years
- 6-10 years
- 11-15 years
- 16-20 years
- More than 20 years
- I do not work with engineering design

4. What methods do you use to complete drawings for engineering/design projects? Check all that apply.

- [ ] Paper markups
- [ ] Electronic markups (pdf)
- [ ] 2-D CAD drawings
- [ ] 3-D CAD drawings
- [ ] BIM (Building Information Modeling)
- [ ] Other (sketch up, etc.)

5. What are the top three types of engineering/design projects that you currently work on?

- [ ] Architectural design
- [ ] Civil
- [ ] Structural
- [ ] Mechanical
- [ ] Electrical
- [ ] Electronics
- [ ] Fire Life Safety
- [ ] Multiple discipline projects (coordination)

6. What type of projects do you primarily participate in?

- ( ) New construction design
- ( ) Renovations
- ( ) Maintenance

7. Do you participate in BIM projects or do you have a need to design in BIM?

- ( ) Yes
- ( ) No
- ( ) Not currently but may require BIM in the future

8. On a scale from 1 to 10, with 1 not being much and 10 being major, how big of a hurdle is it to coordinate with TSSC drafters while initiating an engineering/design project?

1 10

9. On a scale from 1 to 10, with 1 not being much and 10 being major, how big of a hurdle is communicating a revision to TSSC drafters while completing an engineering/design project?

1 10

10. On a scale from 1 to 10, with 1 not being much and 10 being major, how big of a hurdle is communicating a change to an A&E Firm while completing an engineering/design project?

1 10

11. On a scale from 1 to 10, with 1 not being much and 10 being major, how big of a hurdle are inaccurate existing drawings while completing an engineering/design project?

1 10

12. On a scale from 1 to 10, with 1 not being much and 10 being major, how big of a hurdle is not having an existing as-built while completing an engineering/design project?

1 10

13. On a scale from 1 to 10, with 1 not being much and 10 being major, how big of a hurdle is working in a shared drawing while completing an engineering/design project?

1 10

14. What types of information or electronic data do you receive or collect to begin an engineering/design project? Select all that apply.

- [ ] As-built
- [ ] Manufacturer details
- [ ] GIS information
- [ ] Surveys
- [ ] Other

15. What types of information or electronic data do you deliver at the end of an engineering/design project? Select all that apply.

- [ ] As-built
- [ ] Manufacturer details
- [ ] Design data handbook
- [ ] Submittals
- [ ] Other

16. What, if any, CAD or engineering analysis software do you use outside of your normal design application?

17. Are there any tools available in industry that you don't currently have access to that would help you be more productive in your current role?

18. For a typical project that you would work on, what is the average number of drawings that would be in that set?

- ( ) 0-10 drawings
- ( ) 11-30 drawings
- ( ) 31-50 drawings
- ( ) Greater than 50 drawings

19. What is your most common method for producing a design?

- ◯ In house design
- ◯ Outside engineering with an AE firm
- ◯ Outside engineering with TSSC, NISC, etc.
- ◯ Part in house and part outside engineering