

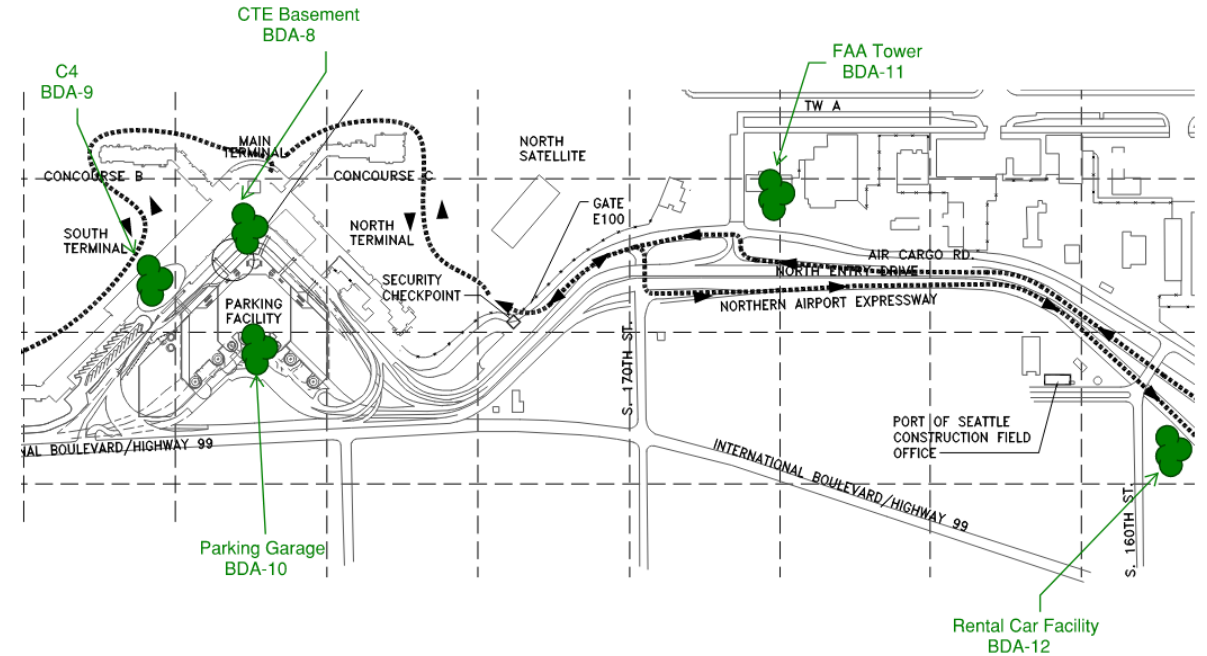
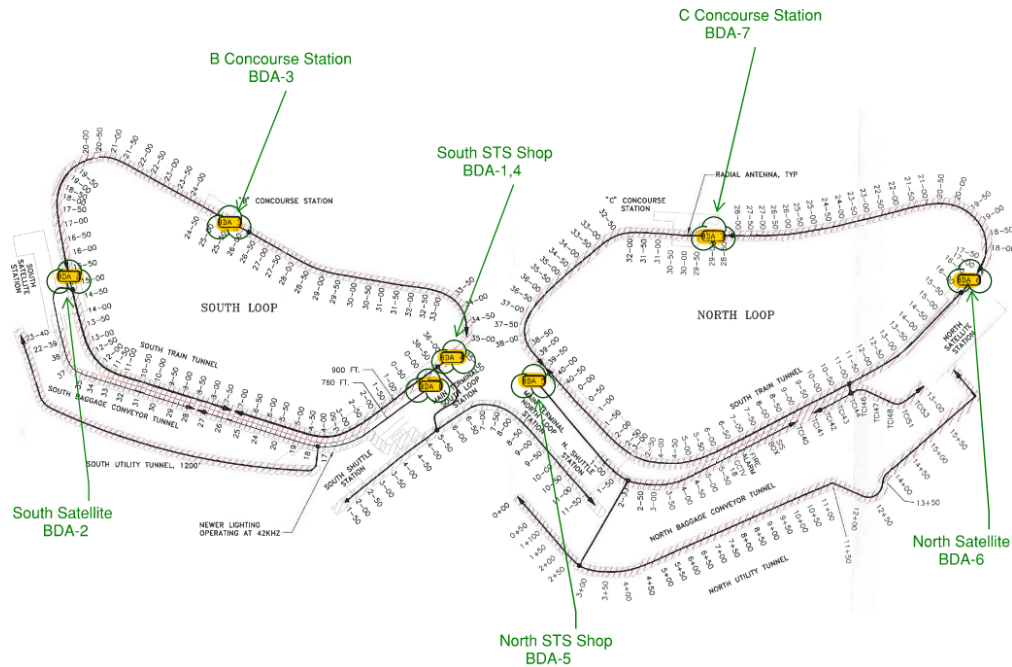
# Public Safety Distributed Antenna System (DAS) Upgrade C801238 | N06489

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AV-PMG



# Project Scope

## BDA-Bi-Directional Amplifier






- Provides in-building public safety and critical radio coverage to responders at SEA.
- DAS is beyond useful life and needs upgrade to digital and modular design.

# Project Justification

- Failure can result in loss of radio coverage impacting life-safety and emergency communication.
- Modern equipment can carry multiple frequency range such as 700/800MHz, VHF spectrum, FirstNet Band 14, & LTE.
- Compliance with NFPA-72 & 1225 and fire protection improvements.
- RAC requires a redundant radio coverage system in case of single feeder failure.
- Wireless coverage testing to determine deficiencies.

# Schedule





|              | 2024  |           |    |    | 2025 |    |    |    | 2026 |   |    |    | 2027 |    |    |   |
|--------------|---|-----------|----|----|------|----|----|----|------|---|----|----|------|----|----|---|
|              | Q1  | Q2        | Q3 | Q4 | Q1   | Q2 | Q3 | Q4 | Q1   | Q2  | Q3 | Q4 | Q1   | Q2 | Q3 | Q4  |
| PLANNING     |  | CX Design |    |    |      |    |    |    |      |   |    |    |      |    |    |   |
| SD EXECUTED  |   |           |    |    |      |    |    |    |      |   |    |    |      |    |    |   |
| DESIGN       |   |           |    |    |      |    |    |    |      |   |    |    |      |    |    |   |
| CONSTRUCTION |   |           |    |    |      |    |    |    |      |  |    |    |      |    |    |  |

CX Construction

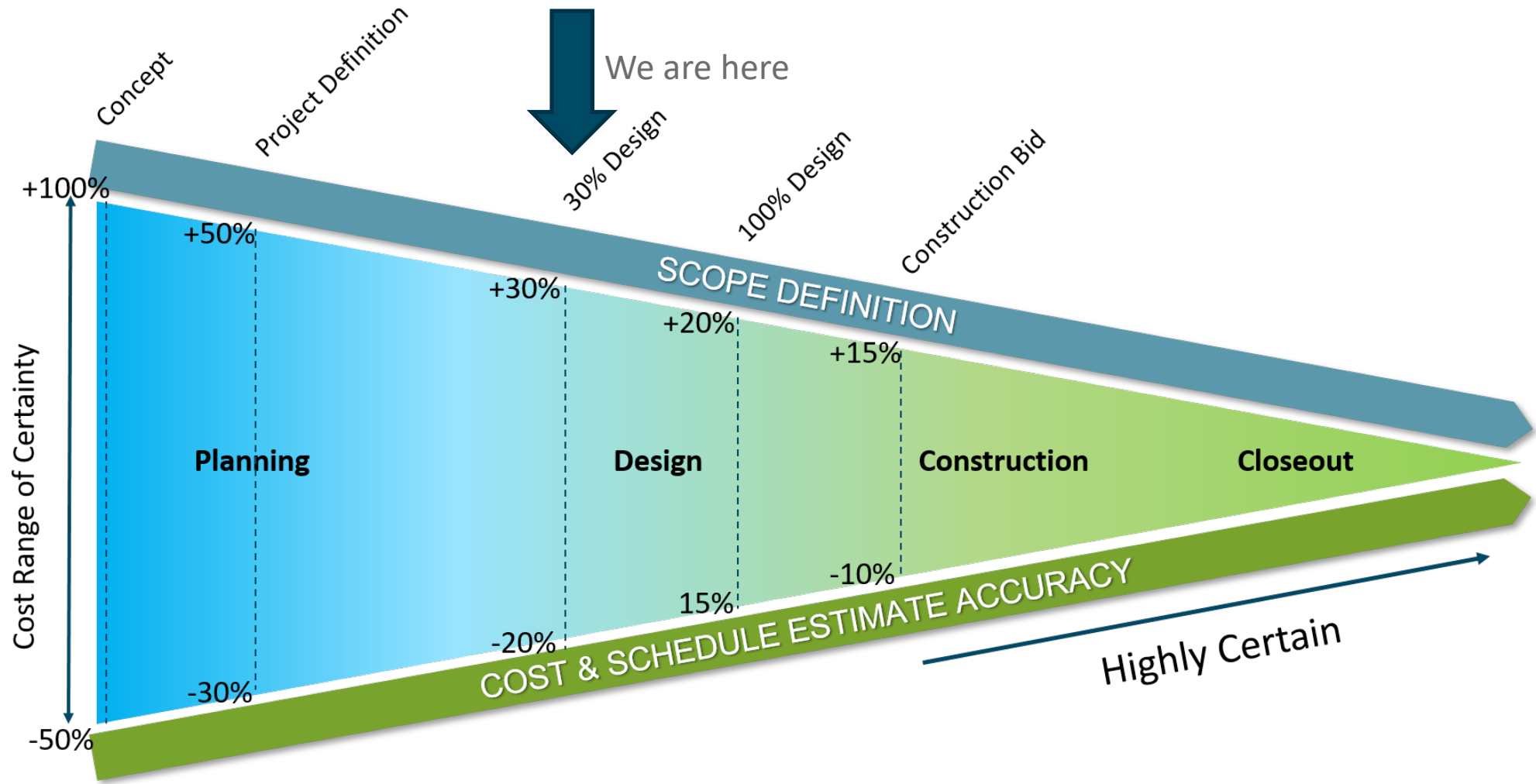
Substantial  
Completion

# Risks

 = High    = Medium    = Low

| Risk   | Impact  | Probability   | Mitigation Plan   |
|--|---|---|---|
| Lead Time to Delivery:<br>16 weeks - Fiber optic cables<br>12 weeks - Wireless equipment |  |  | This is the current lead time to delivery expected as of Q2, 2023. It is expected to go down as the project progresses towards construction.  |
| CIBS communication rooms are not 2-hour fire rated.                                      |  |  | DAS project is not expected to bring comm rooms to 2-hr fire rating. Coordinate with AV F&I and POSFD on this risk as the project progresses. AV F&I and POSFD are working on a solution to make all comm rooms to be 2-hr fire rated for continuous fire rating. |

# Cone of Certainty



# Requesting

- Commission authorization for \$10,976,000 to complete design, construction, and closeout phases of this project.
- Approval to increase the project budget to a total estimated \$11,226,000.

# Requested Authorization

| Authorization                                | Project Phase  | Amount       |
|--|--|--------------|
| Previous Authorizations                      | Notebook + Survey                                    | \$250,000    |
| Current request for Authorization            | Design + Construction + Closeout                     | \$10,976,000 |
| Total authorizations, including this request | Notebook + Survey + Design + Construction + Closeout | \$11,226,000 |
| Remaining amount to be authorized            | N/A  | \$0          |



**QUESTIONS?**