



Jensen Electrical Upgrades

Engineering and Operations Committee

Item 8-3

July 8, 2019

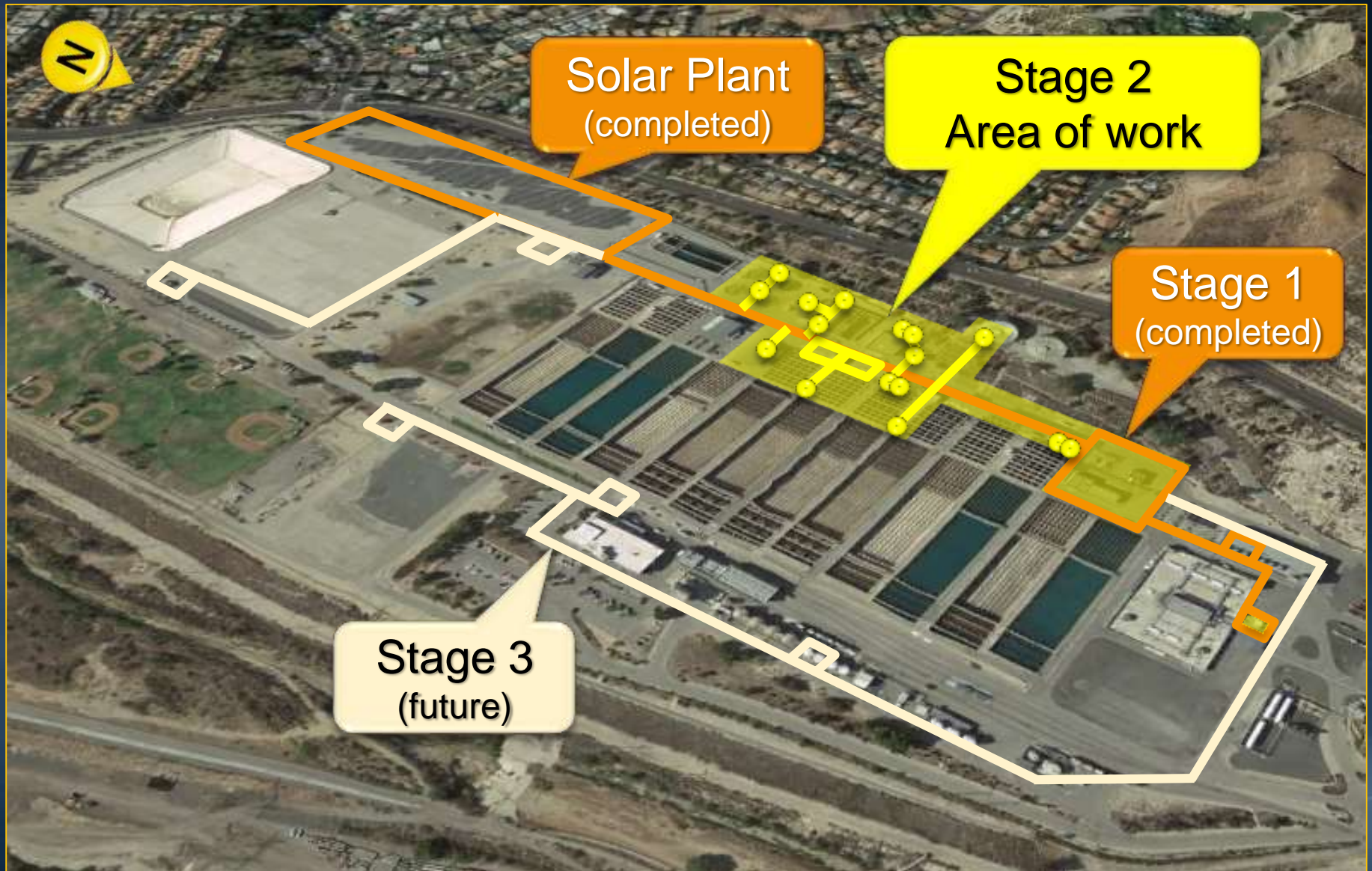
Current Action

- Award \$14,784,000 contract to Helix Electric, Inc. for Stage 2 electrical upgrades at the Jensen plant

Distribution System



Jensen Plant



Background

- Aging equipment difficult to maintain & repair
- Critical plant processes vulnerable to shutdown caused by single point of failure



**Deteriorated UPC-7
Breaker**

Objectives

- Replace aging equipment
- Provide redundancy
- Increase reliability
- Ensure consistency with current codes



Existing Cables in Vaults

Scope of Work - Contractor

- Reconfigure electrical cables and power feeds to process equipment
- Replace washwater return pump motors
- Replace Unit Power Centers & Motor Control Centers
- Install new electrical equipment



Electrical Building

Scope of Work - Metropolitan

- Construction inspection
- Submittal review & record drawings
- SCADA system integration
- Shutdown, start-up, testing & switchover
- Temporary electrical systems



SCADA Testing



Hot Phasing



Temporary Power

Bid Results

Specifications No. 1914

Bids Received:	June 4, 2019
No. of Bidders:	5
Low Bidder:	Helix Electric, Inc.
Low Bid:	\$14,784,000
Range of Higher Bids:	\$15.4 M to \$20.7 M
Engineer's estimate:	\$21,600,000
SBE Participation*:	25.7%

*SBE (Small Business Enterprise) participation level set at 25%

Allocation of Funds

Contract		\$14,784,000
Metropolitan Labor		
Program mgmt. & contract admin.		739,000
Support during construction & testing		691,000
Submittal review & record drwgs.		1,547,000
Construction inspection		2,500,000
Force construction		2,653,000
Materials		500,000
Remaining Budget		1,586,000
	Total	\$25,000,000

Total Construction Cost: \$17,937,000

Project Schedule



Board Options

- Option #1

- Award \$14,784,000 contract to Helix Electric, Inc. for the Stage 2 electrical upgrades at the Jensen plant

- Option #2

- Do not proceed with the electrical upgrades

Staff Recommendation

- Option #1

