



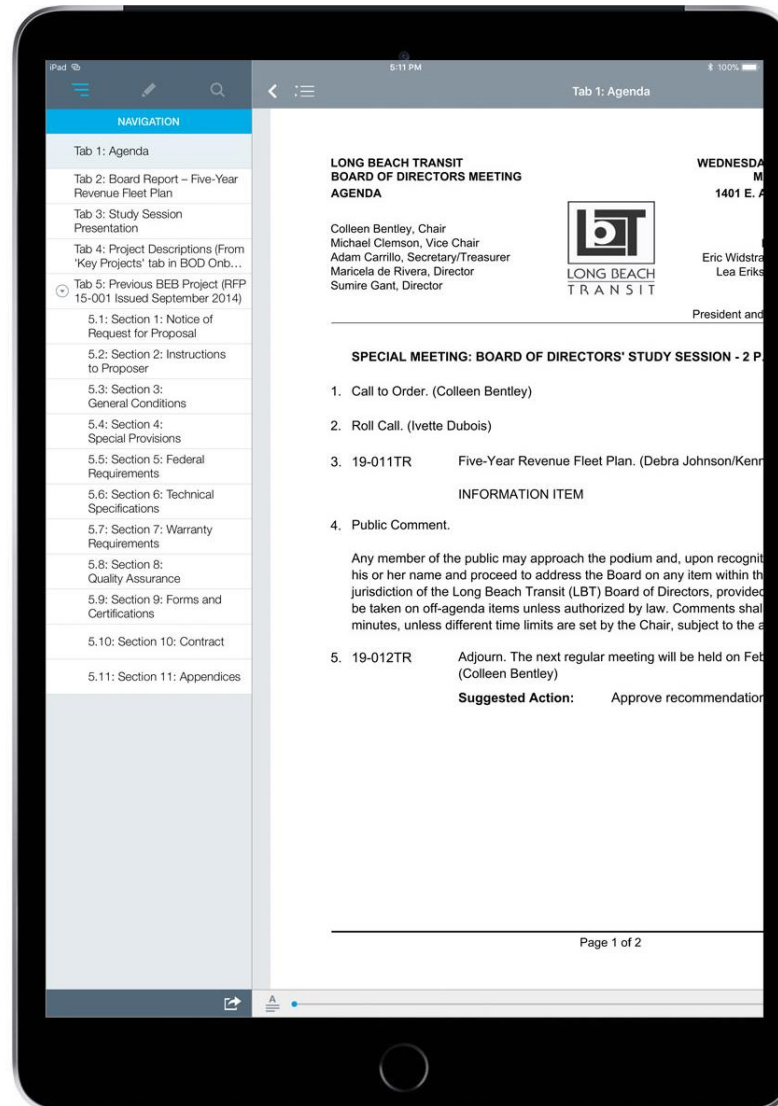
FIVE-YEAR REVENUE FLEET PLAN



**BOARD OF DIRECTORS' SPECIAL MEETING
JANUARY 30, 2019**

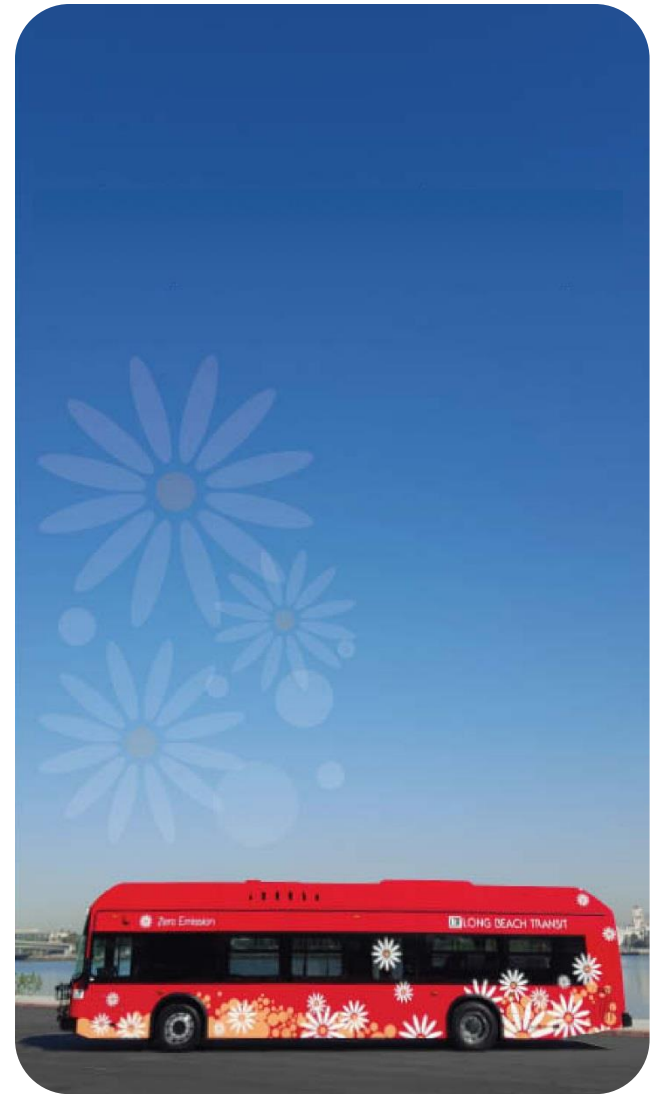


Study Session Reference Material



Overview (cont'd)

- Meeting Purpose
- Guidelines
- Current Bus Fleet
- Present Fuel Focus
- Regulations
- Alternative Fuel Focus
- Five-Year Procurement Plan



Overview (cont'd)



- Plan Objectives
- BEB Request for Proposal (RFP)
- Infrastructure Construction
- On-Route Charging
- Electricity to Facility
- Bus Project Management Support
- Evaluation Criteria Overview
- Next Steps

Meeting Purpose

- To educate regarding LBT's Five-Year Revenue Fleet Plan
- To inform on the Fleet Plan Process



Guidelines

STUDY SESSION LEGAL OVERVIEW

- Procurement Roles
- California Ralph M. Brown Act
 - Open Meeting Law
- RFP Blackout Period
- Third-Party Contracting Guidance
 - FTA Circular C 4220.1F
 - California Public Contracts Code Section 20217 (Transportation Agencies)



Current Bus Fleet

Bus Type	Number of Buses
Battery-Electric	10
Compressed Natural Gas (CNG) 40-ft. - 112 60-ft. - 13	125
Gasoline-Electric Hybrid	88
Diesel	26
Total	249



Present Fuel Focus

➤ Current Agency Policy

- Gasoline-Electric Hybrid at LBT1
- CNG at LBT2
- Pursue Zero-Emission Vehicles

Regulations

- **California Air Resources Board (CARB)**

- Innovative Clean Transit (ICT) Regulation (2018)
 - ZEB Rollout Plans
 - Purchase Mandate
 - Statewide Thresholds
 - Low NO_x Requirement
 - Renewable Fuel Requirement



- **South Coast Air Quality Management District**

- Rule 1192: Clean On-Road Transit Buses (2000)
 - Transit agencies must acquire alternative-fueled buses
 - Applies to transit agencies with 15+ buses



Alternative Fuel Focus

➤ Proposed Agency Policy

- CNG at LBT2
- Zero-Emission Buses
 - Continue BEB
 - Pursue Hydrogen Fuel Cell
 - Explore Emerging Technologies



Five-Year Procurement Plan

Bus Type	2018	2019	2020	2021	2022
30-ft. BEB			20	10	
40-ft. BEB			14	20	25
40-ft. CNG	40				
Total	40	0	34	30	25

Plan Objectives

- Evaluate Market
- Identify Manufacturers Based on LBT Requirements
- Evaluate Bus Emission and Energy Consumption
- Calculate Operating, Maintenance, Life Cycle Costs
- Select Manufacturer
- Deploy BEBs
- Assess Vehicles' Performance

BEB Request for Proposal (RFP)

THE RFP IS DIVIDED INTO THE FOLLOWING SECTIONS:



- Section 1 Notice of RFP
- Section 2 Instructions to Proposer
- Section 3 General Conditions
- Section 4 Special Provisions
- Section 5 Federal Requirements
- Section 6 Technical Specifications

BEB RFP (cont'd)

THE RFP IS DIVIDED INTO THE FOLLOWING SECTIONS:

- **Section 7** Warranty Requirements
- **Section 8** Quality Assurance
- **Section 9** Forms and Certifications
- **Section 10** Sample Contract
- **Section 11** Appendices



BEB RFP (cont'd)

SECTION 1: NOTICE OF RFP

- Bid Announcement
- Key Proposal Dates
- Pre-Proposal Meeting
- Submittal Requirements
- Equal Opportunity to Submit Proposal
- Labor Employment Compliance

SECTION 2: INSTRUCTION TO PROPOSERS

- RFP Quantities
- Solicitation Schedule
- DBE Requirements
- Buy America Certification
- Proposal Format Requirements

SECTION 3: GENERAL CONDITIONS

- Definition of Contract Terms
- Conformance with Specifications
- Inspection and Acceptance Processes
- Legal Clauses
 - Indemnification
 - Excusable Delays
 - Contract Termination or Disputes

SECTION 4: SPECIAL PROVISIONS

- First Bus
- First Article Inspection
- Contract Deliverables
- Liquidated Damages
- Indemnity and Insurance
- Sustainability *(Detailed in Section 9)*

SECTION 5: FEDERAL REQUIREMENTS

- Civil Rights Requirements
- Compliance Requirements
 - Buy America and Fly America
 - Disadvantaged Business Enterprise (DBE)
 - Testing of New Bus Model
 - Americans with Disabilities Act (ADA) Access
- Pre-and Post-Delivery Audits

SECTION 6: TECHNICAL SPECIFICATIONS

- Scope of Work
- Technical Definitions
- Legal Requirement
- Cost of Ownership and Requirements
- Vehicle Dimensions
- Vehicle Performance
- Altoona Testing Certification

SECTION 6: TECHNICAL SPECIFICATIONS (cont'd)

- Propulsion Requirements – All Electric
- Bus Systems Overview
- Operator Controls
- Exterior and Interior Design
- Customer Accommodations
- Charging Infrastructure

SECTION 7: WARRANTY REQUIREMENTS

- Warranties by Systems
- Fleet Defect
- Repair Procedures
- Failure Analysis
- Battery Warranty
- Unscheduled Repairs

BEB RFP (cont'd)

SECTION 8: QUALITY ASSURANCE (QA)

- Organization/Guidelines
- In-Plant Quality Control
- Production Processes
- In-Plant Inspections
- Acceptance Tests
- Quality Audits

SECTION 9: FORMS AND CERTIFICATIONS

- Proposers Checklist
- Forms for Proposal Deviations
- Pricing Schedule
- Federal Certifications
- Sustainability Requirements

BEB RFP (cont'd)


SECTION 10: SAMPLE CONTRACT

Sample Contract Document



Long Beach Public Transportation Company
Request for Proposal
RFP 15-001

SECTION 10: CONTRACT



AGREEMENT NO. 15-001
BETWEEN
LONG BEACH PUBLIC TRANSPORTATION COMPANY
ANAHEIM TRANSPORTATION NETWORK
GARDENA MUNICIPAL BUS LINES
AND

THIS AGREEMENT is made and entered into this ___ day of Month, 20___, by and between the LONG BEACH PUBLIC TRANSPORTATION COMPANY (LBT), a Non-Profit corporation of the state of California, (hereinafter referred to as "Buyer", and _____, (Hereinafter referred to as "Seller").

WITNESSETH:

WHEREAS, LBT has entered into a Joint Procurement with ANAHEIM TRANSPORTATION NETWORK (ATN) and GARDENA MUNICIPAL BUS LINES (GMBL) to procure Battery Electric Buses and charging station equipment and;

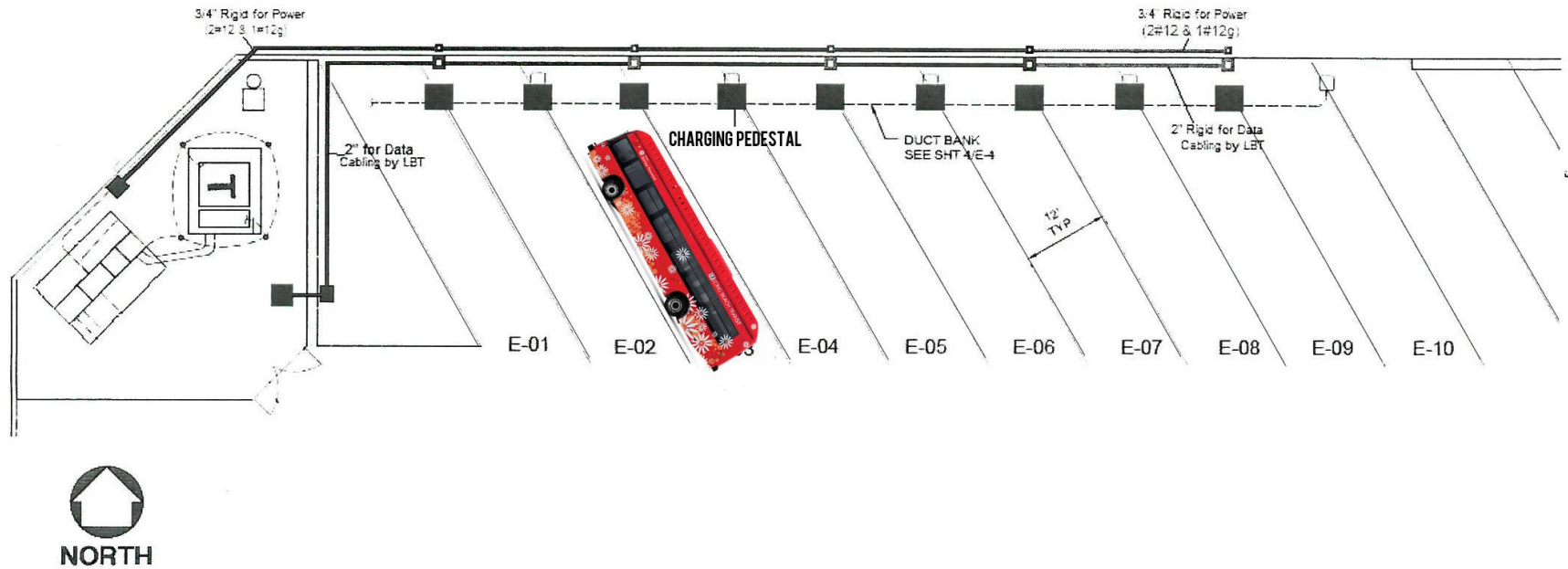
Whereas, the parties require the services of a Seller to provide Battery Electric Buses and charging station equipment; and

WHEREAS, said work cannot be performed by the regular employees of LBT or the members of the joint procurement; and

SECTION 11: APPENDICES

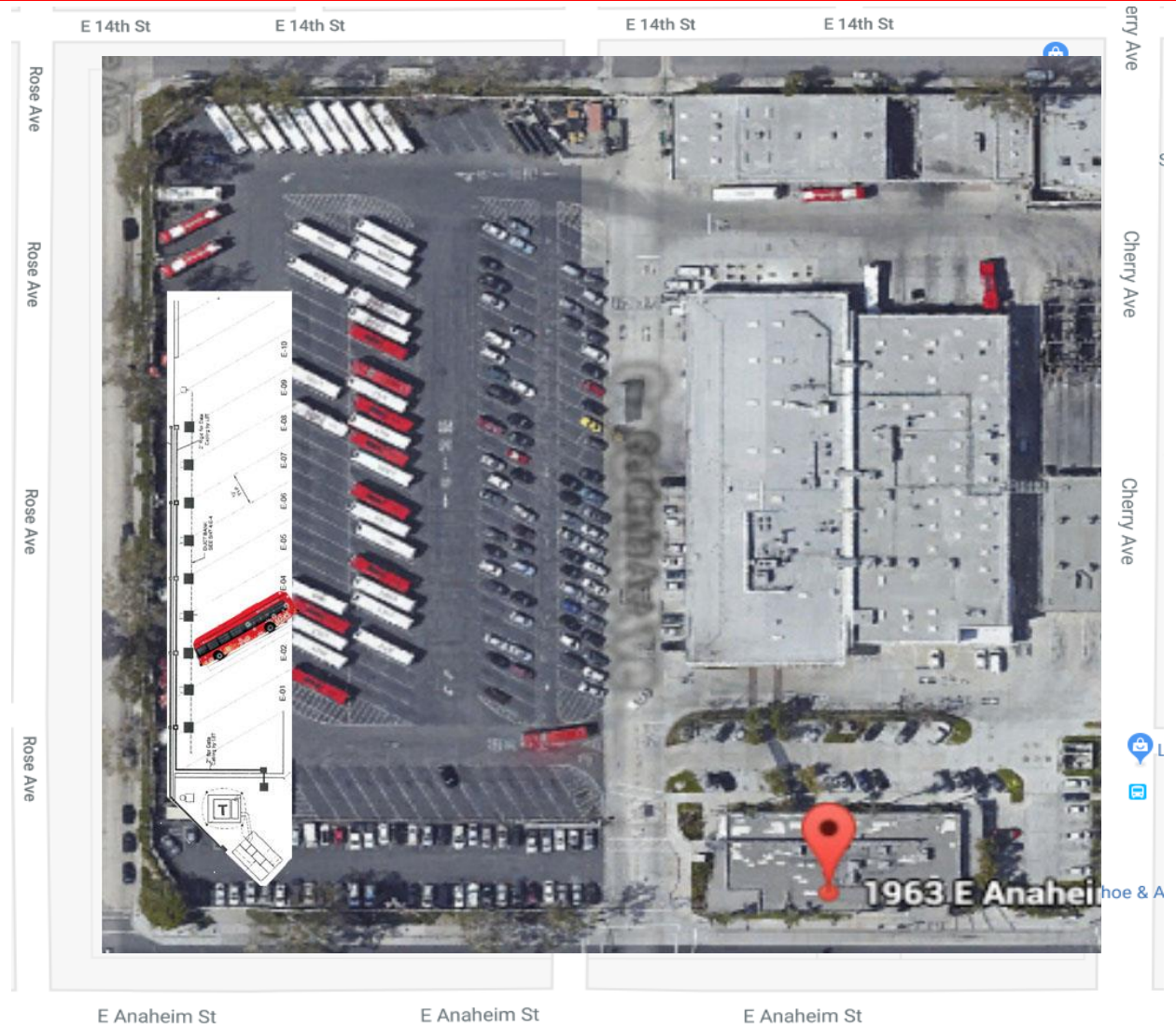
- Project Attachments Samples
- Assorted References
- Abbreviations and Acronyms

Infrastructure Construction



TYPICAL BEB CHARGING INSTALLATION

Electricity to Facility




Bus Project Management Support

- Planning and Guidance
- Market Analysis
- Technical and Life Cycle Costing Analysis
- Monitor and Inspect Deliverables
- Data Collection and Reporting

Evaluation Criteria Overview

- Qualifications and Experience
- Technical Design/Bus Operational Considerations
- Customer and Community Considerations
- Maintainability and Product Support

Next Steps

- Finalize RFP Document
 - Issue RFP
 - Blackout Period
 - Proposal Submittal and Evaluation
 - Vendor Selection Process
 - Contract Award
- February 2019
- 
- December 2019

Thank You!

