

Waco Metropolitan Area Regional Sewerage System (WMARSS)

Bull Hide Creek WWTP Pre-Bid Meeting

JUNE 15, 2010



An SAIC Company



Agenda

- Introductions
- Program History
- Administrative Overview
- Technical Overview
- Other General Information
- Questions and Answers



Introductions

- WMARSS and City of Waco Staff
- Lockwood, Andrews & Newnam, Inc. (LAN) Staff
- Program Management Staff



Program History

- WMARSS Member Cities:
 - Waco
 - Lacy Lakeview
 - Bellmead
 - Hewitt
 - Woodway
 - Lorena
 - Robinson
- Central WWTP is WMARSS' only operating WWTP
- WMARSS Average Permitted Flow is 37.8 MGD



Program History (cont.)

- After preliminary engineering, projects selected for implementation:
 - 1.5 MGD "Satellite" WWTP on Bull Hide Creek
 - Other projects NOT included under this contract:
 - Central WWTP 7.2 MGD Expansion;
Design Engineer: HDR, Inc.
 - Flat Creek Interceptor Construction;
Design Engineer: Walker Partners
 - Bull Hide Creek Interceptor Construction;
Design Engineer: LAN, Inc.



Administrative Overview

- Schedule:
 - Tuesday, June 15th - Site Visit (*immediately following Pre-Bid Meeting*)
 - Tuesday, June 22nd - Last Day to Submit Written Questions (*at or before 5:00 pm*)
 - Thursday, June 24th - Final Addenda Issuance (*at or before 5:00 pm*)
 - Tuesday, June 29th - Bid Submission (*at or before 2:00 pm*), followed by Bid Opening (*2:05 pm*)



Administrative Overview (cont.)

- Completed Items Required with Sealed Bid* :
 - Bid for Contracts
 - Bid Proposal
 - Bidder's Questionnaire
 - Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
 - Bid Bond
 - Drug-Free Workplace Act Certification
 - Requirements for Corporations
 - Agreement to Execute Contract
 - Minority/Women Owned Business Certification
 - Litigation Disclosure
 - Non-Collusion Affidavit of Prime Bidder
 - Conflict of Interest Questionnaire
 - Resident Certification



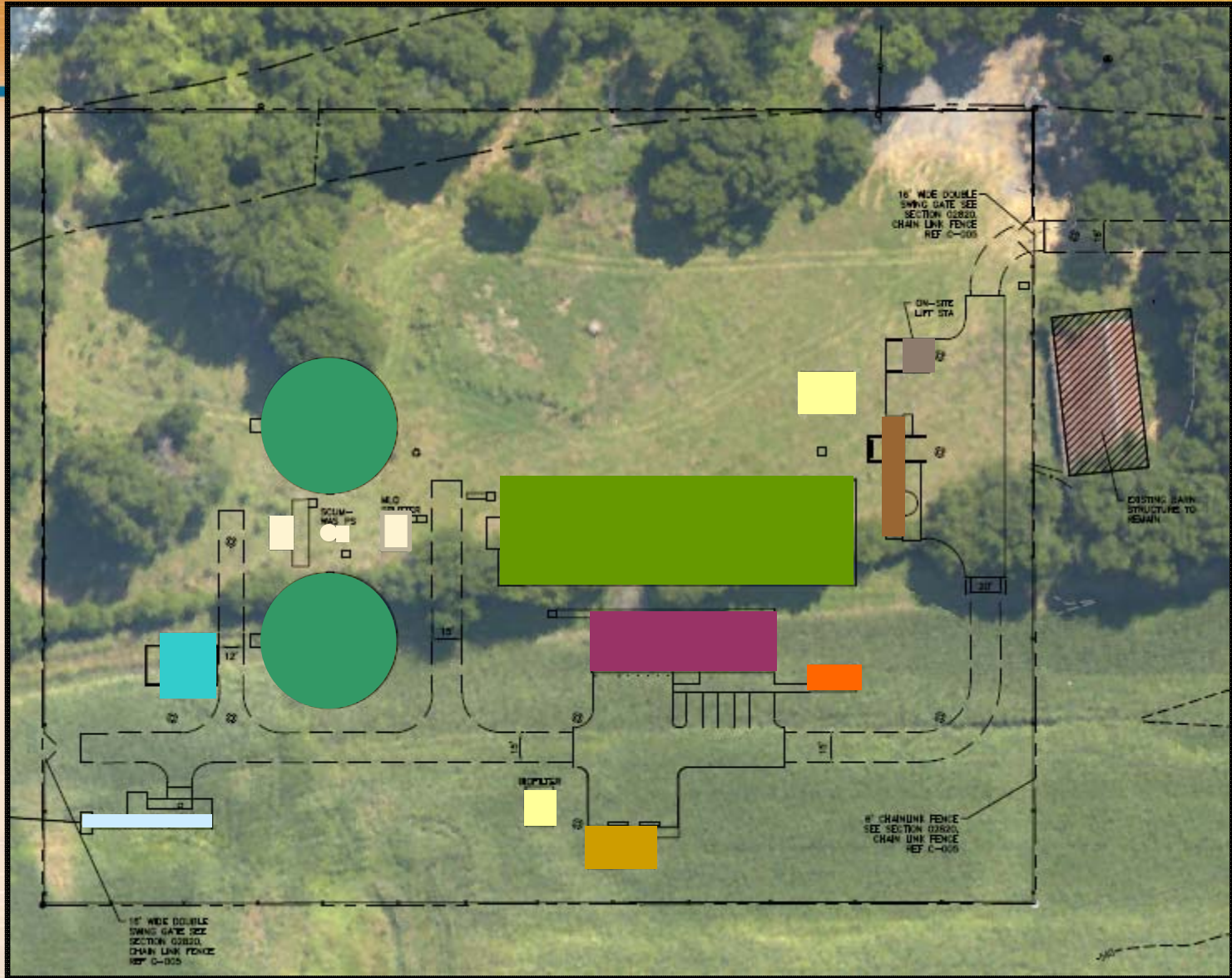
Administrative Overview (cont.)

- All questions submitted in writing to Tara Hickey at thickey@rwbeck.com or by fax 512.450.0515
- Addenda will be issued by email (PDF format)
- Addenda also be available at www.wmarss.com under “Contracting Opportunities”



Technical Overview

- Primary Project Components:
 - Influent Lift Station
 - Headworks
 - Biological Nutrient Removal (BNR) Basins
 - Secondary Clarifiers
 - Return Activated Sludge (RAS) Pump Station
 - Scum/Waste Activated Sludge (WAS) Pump Station
 - Disc Filters
 - Ultraviolet (UV) Disinfection Basin
 - Non-potable Water (NPW) Booster System
 - Rotary Drum Thickener (RDT)
 - Odor Control Biofilters



Technical Overview (cont.)

- **Influent Lift Station:**
 - Wet Well Structure
 - Three (3) Submersible Pumps, Each with VFD
 - Piping and Fittings
 - Electrical, Instrumentation and Controls
 - By-pass Manhole Connection
 - Biofilter Connection

Technical Overview (cont.)

- Headworks:
 - Headworks Structure
 - Perforated Plate-Type Mechanical Fine Screen
 - Manual Bar Screen
 - Screenings Compactor/Washer
 - Vortex-Type Grit Chamber
 - Two (2) Grit Pumps
 - Grit Concentrator
 - Grit Washer and Classifier
 - Slide, Weir and Hand Gates
 - Piping and Fittings
 - Electrical, Instrumentation and Controls
 - Biofilter Connection

Technical Overview (cont.)

- **Biological Nutrient Removal (BNR) Basins:**
 - Two (2) Zoned BNR Structures
 - Top-Entering Mixers (Anaerobic and Anoxic Zones)
 - Internal Recycle Pump with VFD (Provisions for Future)
 - Ceramic Fine Bubble Diffused Aeration System with Dissolved Oxygen Control (Aeration Zone)
 - Aeration System Blowers (One (1) Turbo and Two (2) Multi-Stage Centrifugal)
 - Alum Addition System
 - Slide Gates
 - Piping and Fittings (Air and Process)
 - Electrical, Instrumentation and Controls



Technical Overview (cont.)

- Secondary Clarifiers:
 - MLQ Splitter Box Structure
 - Weir Gates
 - Two (2) Secondary Clarifier Structures
 - Clarifier Internals (Mechanism, Drive, Weirs, Launderers, etc.)
 - Piping and Fittings
 - Electrical, Instrumentation and Controls



Technical Overview (cont.)

- Return Activated Sludge (RAS) Pump Station:
 - Capability for RAS to Flow by Gravity to Influent Lift Station or Pumped to Discharge End of Headworks
 - RAS Pump Station Pad
 - Two (2) Horizontal Centrifugal Solids Handling Pumps, each with VFD
 - Piping and Fittings
 - Electrical, Instrumentation and Controls



Technical Overview (cont.)

- **Disc Filters:**
 - Two (2) Disc Filter Basins
 - Two (2) Cloth Media Filter System Packages, Including Filter Equipment, Backwash Pumps, etc.
 - Two (2) Solar Screens
 - Piping and Fittings
 - Electrical, Instrumentation and Controls



Technical Overview (cont.)

- Ultraviolet (UV) Disinfection Basin:
 - UV Basin Structure
 - UV System Package, Including UV Equipment, Blowers, Diffusers, etc.
 - Jib Crane
 - Nested Parshall Flume
 - Slide Gates
 - Piping and Fittings
 - Electrical, Instrumentation and Controls



Technical Overview (cont.)

- **Non-potable Water (NPW) Booster System:**
 - NPW Basin Structure (Part of UV Basin Structure)
 - NPW System Package, Including Pumps, VFDs, etc.
 - Flow-Paced Chlorination System
 - Piping and Fittings
 - Electrical, Instrumentation and Controls



Technical Overview (cont.)

- Scum/Waste Activated Sludge (WAS) Pump Station:
 - Scum/WAS Wet Well Structure
 - Two (2) Submersible Chopper Pumps, Each with VFD
 - Piping and Fittings
 - Electrical, Instrumentation and Controls



Technical Overview (cont.)

- Rotary Drum Thickener (RDT):
 - Foundation and Associated Containment Area for RDT
 - RDT Structural Platform
 - One (1) RDT Unit
 - Two (2) Double Disk Sludge Pumps, Each with VFD
 - Polymer Blending System
 - Containment Area for Vacuum Roll-Off Boxes
 - Three (3) Vacuum Roll-Off Boxes for Temporary On-Site Sludge Storage Prior to Transport to Central WWTP
 - Piping and Fittings
 - Electrical, Instrumentation and Controls
 - Biofilter Connection

Technical Overview (cont.)

- Odor Control Biofilters:
 - Two (2) Biofilter Pads (Lift Station/Headworks and RDT)
 - Two (2) Fans
 - Mulch Media
 - Piping and Fittings
 - Electrical, Instrumentation and Controls



Technical Overview (cont.)

- Other Project Components:
 - Site Civil (Grading, Entrance and Internal Plant Roads, Concrete Sidewalk, Manholes, Fencing, Berms, etc.)
 - 30-inch Effluent Line From UV Discharge to Bonus Feature (by Others)
 - 2,500 SF Multi-Purpose Building (Administration, Electrical/Control, Blower Housing and Maintenance)
 - 15 kW Generator and Automatic Transfer Switch (ATS)
 - Motor Control Center (MCC) in Building
 - Supervisory Control and Data Acquisition (SCADA) System
 - Site Area Lighting



Technical Overview (cont.)

- Alternates to Base Bid:
 - BA-1: Asphalt Plant Entrance Road
 - BA-2: Concrete Internal Plant Road
 - BA-3: Cantilever Entrance Gate
 - BA-4: Additional (2) Internal Recycle Pumps
 - BA-5: Turbo Blower to Replace Multi-Stage Blower
 - BA-6: Enhanced Security Components
 - BA-7: Systems Integration Services
 - BA-8: Sidewalks



Other General Information

- Selected Contractor responsible for preparation and implementation of Storm Water Pollution Prevention Plan (SWPPP)
- Contractor responsible for all temporary utilities
- Liquidated Damages of \$1,200/day will apply
- 540 Calendar Days to Final Completion
- Geotechnical Report included in Bid Documents



Other General Information (cont.)

- Engineer's Opinion of Probable Construction Cost:
 - Base Bid ~ \$12.0M
 - Bid Alternates ~ \$1.0M
- Bid Submission/Opening:
 - Date: Thursday, June 29th
 - Time: Submission 2:00 pm/Opening 2:05 pm
 - Location: Water Utilities Department (Riverside WTP) at 200 Colcord, Building 100, Waco, Texas

Questions and Answers

- Meeting Open To Questions By All Attendees

