

# Pumping Stations 13 & 14 Rehabilitation



Pumping Station 13

Madison Metropolitan Sewerage District



# Outline



- Project Overview
- Item 1: Review of Bids & Award of Contract
- Item 2: Review and Approval of Construction Phase Engineering Services





# Project Location



Pumping Station 14

Pumping Station 13

# Project Scope

- Project update provided at 7/16 Commission meeting
- To recap, project scope includes:
  - Increase peak and firm pumping capacity
  - Replacement of pumping equipment, valves, and piping
  - Enhancement of power system resiliency
  - Replacement of major electrical and control equipment
  - Installation of new HVAC and odor control equipment
  - Replacement of manual valves and gates
  - Installation of new flow metering equipment
  - Major wet well repairs



# Item 1: Advertising

- Advertised in July
  - Wisconsin State Journal, Quest CDN
- Six pre-qualified prime bidders
  - C. D. Smith, J. H. Findorff, J. P. Cullen, Joe Daniels, Miron, Staab
- Four pre-qualified mechanical subcontractors
  - 1901 Inc.; J. F. Ahern; Mechanical Inc.; Staab
- Five pre-qualified electrical subcontractors
  - Forward Electric; Michels Power; Morse Electric; Pieper Power; and Van Ert Electric



# Item 1: Bid Results

- Bid accepted on Thursday, August 13
- Five Bids received:
  - C. D. Smith Construction \$9,276,979
  - Staab Construction \$9,437,000
  - J. P. Cullen & Sons \$9,620,592
  - Miron Construction \$9,953,704
  - Joe Daniels Construction \$11,058,100
- Mechanical Subcontractor
  - J. F. Ahern
- Electrical Subcontractor
  - Forward Electric





# Item 1: CIP Budget and Current Estimates

	Budget Estimate	Current Estimate
Construction Cost plus Contingency plus Other Costs (permits, etc.)	\$9,100,000	\$9,555,000
Professional Services & MMSD Staff Time	\$2,250,000	\$1,200,000
Total Project Cost	\$11,350,000	\$10,755,000



# Item 1: C. D. Smith Construction

- Is qualified to perform the work
- Is financially stable
- Has equipment and experience to complete the project
- Has performed very well on past MMSD projects (11<sup>th</sup> Addition, Pump Station 18, Maintenance Facility, & Pump Station 7)
- Included the necessary documentation with their bid (bid bond, addenda acknowledgement, DBE solicitation, etc.)





# Item 1: Recommendations and Next Steps

- Approve resolution to award the contract to C. D. Smith Construction, Inc., at their low bid price of \$9,276,979
- Construction to begin in October
- Complete in 2022





# Item 1: Questions



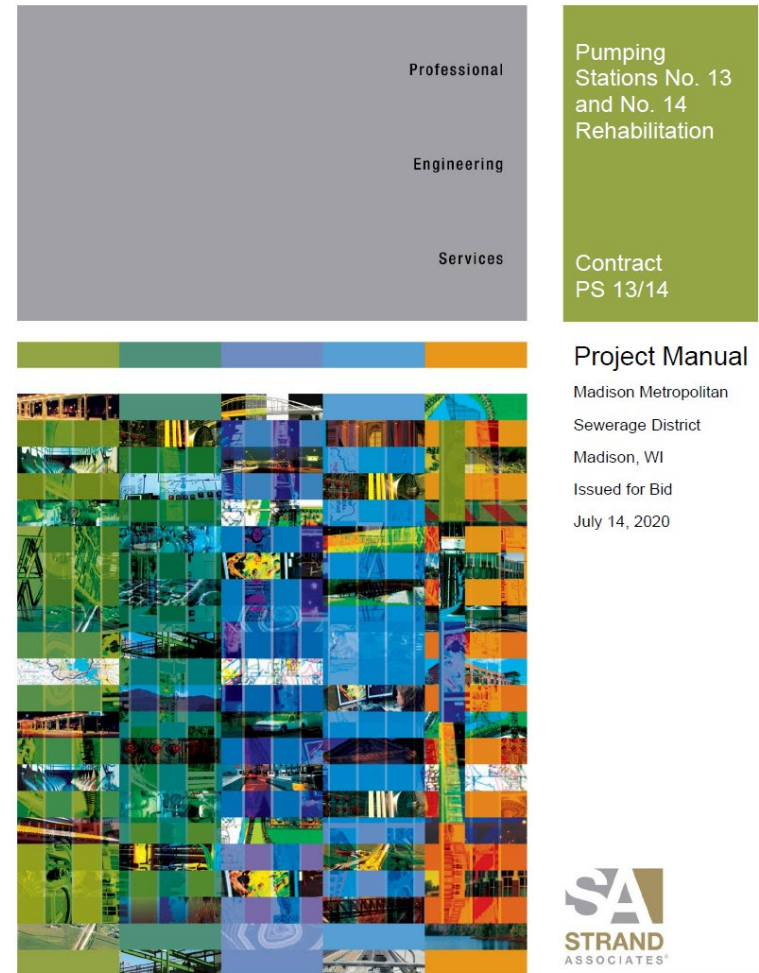
Pumping Station 14

Madison Metropolitan Sewerage District



# Item 2: Construction Engineering Services

- Strand completed planning and design of the project
- Strand is the engineer of record
- Strand knows the details of the project and are best-suited to perform the engineering services required
- Strand's construction phase engineering services proposal is within budget





## Item 2: Costs

- Proposal for Construction Phase Engineering Services: \$312,000
- Budget for Construction Phase Engineering Services: \$540,000
- Project costs:

	Budget Estimate	Current Estimate
Construction Cost plus Contingency plus Other Costs (permits, etc.)	\$9,100,000	\$9,555,000
Professional Services & MMSD Staff Time	\$2,250,000	\$1,200,000
Total Project Cost	\$11,350,000	\$10,755,000



# Item 2: Recommendation and Next Steps

- Request approval of the PS 13 & 14 Rehabilitation construction phase engineering services to Strand
- Work will begin immediately
- Completion estimated in 2022



# Item 2: Questions

## PUMPING STATIONS NO. 13 AND 14 REHABILITATION FOR THE MADISON METROPOLITAN SEWERAGE DISTRICT MADISON, WISCONSIN

ISSUED FOR BID, 7/14/2020

Madison Metropolitan Sewerage District



PUMPING STATION NO. 14  
6000 SCHOOL ROAD  
MADISON, WI



PUMPING STATION NO. 13  
3634 AMELIA EARHART DRIVE  
MADISON, WI

PROJECT LOCATION MAP  
NO SCALE

910 WEST WINGRA DRIVE  
MADISON, WI 53715  
605-251-4843  
www.strand.com

CONTRACT NO. PS 13 & 14

### LIST OF DRAWINGS

SHEET NO.	DRAWING NO.	DRAWING TITLE
1	00-G0-01	TITLE SHEET AND LIST OF DRAWINGS
2	00-G0-02	EQUIPMENT LIST
3	00-G0-03	STANDARD SYMBOLS - 1
4	00-G0-04	STANDARD SYMBOLS - 2
<b>13-PUMPING STATION NO. 13</b>		
5	13-C01-01	SITE DEMOLITION AND EROSION CONTROL PLAN
6	13-C101	SITE GRADING PLAN
7	13-C102	SITE LANDSCAPING PLAN
8	13-E101	ELECTRICAL SITE PLAN
9	13-D101	LOWER LEVEL DEMOLITION PLAN
10	13-D102	UPPER LEVEL DEMOLITION PLAN
11	13-A01-01	ROOF FRAMING AND ROOFING PLAN
12	13-A01-02	LOWER LEVEL PLAN
13	13-A01-03	UPPER LEVEL PLAN
14	13-A01-04	BUILDING ELEVATIONS
15	13-A01-05	SECTIONS - 1
16	13-A01-06	SECTIONS - 2
17	13-P101	PLUMBING LOWER LEVEL PLAN
18	13-P102	PLUMBING UPPER LEVEL PLAN
19	13-H101	HVAC LOWER LEVEL PLAN
20	13-H102	HVAC UPPER LEVEL PLAN
21	13-E103	ELECTRICAL LOWER LEVEL PLAN
22	13-E104	ELECTRICAL UPPER LEVEL PLAN
23	13-E105	ELECTRICAL ONE LINE DIAGRAM
24	13-E106	SWITCHGEAR SINGR-1301 ELEVATION
25	13-E107	MCC-1301 SCHEDULE
26	13-E108	SCADA ROBOT DIAGRAM
27	13-E109	STATION PLUMBING STARTER SCHEDULES AND ELEVATIONS
28	13-E110	MCC-1301 ELEVATION
<b>14-PUMPING STATION NO. 14</b>		
29	14-C01-01	SITE DEMOLITION AND EROSION CONTROL PLAN
30	14-C101	SITE GRADING PLAN
31	14-C102	SITE LANDSCAPING PLAN
32	14-E101	ELECTRICAL SITE PLAN
33	14-D101	LOWER LEVEL DEMOLITION PLAN
34	14-D102	UPPER LEVEL DEMOLITION PLAN
35	14-A01-01	ROOF FRAMING AND ROOFING PLAN
36	14-A01-02	LOWER LEVEL PLAN
37	14-A01-03	UPPER LEVEL PLAN
38	14-A01-04	BUILDING ELEVATIONS
39	14-A01-05	SECTIONS - 1
40	14-A01-06	SECTIONS - 2
41	14-P101	PLUMBING LOWER LEVEL PLAN
42	14-P102	PLUMBING UPPER LEVEL PLAN
43	14-H101	HVAC LOWER LEVEL PLAN
44	14-H102	HVAC UPPER LEVEL PLAN
45	14-E103	ELECTRICAL LOWER AND INTERMEDIATE LEVEL PLANS
46	14-E104	ELECTRICAL UPPER LEVEL PLAN
47	14-E105	ELECTRICAL ONE LINE DIAGRAM
48	14-E106	SWITCHGEAR SINGR-1401 ELEVATION
49	14-E107	MCC-1401 SCHEDULE
50	14-E108	SCADA ROBOT DIAGRAM
51	14-E109	STATION PLUMBING STARTER SCHEDULES AND ELEVATIONS
52	14-E110	MCC-1401 ELEVATION
<b>100-DETAILS AND SCHEDULES</b>		
53	100-A01-01	DETAILS - 1
54	100-A01-02	DETAILS - 2
55	100-A01-03	DETAILS - 3
56	100-A01-04	DETAILS - 4
57	100-A01-05	ROOM FINISHES AND DOOR SCHEDULES
58	100-P01	PLUMBING DETAILS AND SCHEDULES
59	100-H01	HVAC DETAILS - 1
60	100-H02	HVAC SCHEDULES
61	100-H03	HVAC CONTROL DIAGRAM - 1
62	100-H04	HVAC CONTROL DIAGRAM - 2
63	100-E01	ELECTRICAL DETAILS



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