



**Steven M. Clouse Water Recycling Center
Sand Drying Bed Improvements
Solicitation Number: CO-00309
Job No.: 19-6503**

**ADDENDUM 2
December 9, 2019**

To Bidder of Record:

This addendum, applicable to work referenced above, is an amendment to the bid proposal, plans and specifications and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the Addendum number and issue date on the space provided in submitted copies of the bid proposal.

RESPONSES TO QUESTIONS

1. Please explain the Bid Item 5 - Intermediate Demobilize & Remobilize. Under what circumstances may this happen and how often?

Bid item 5 is to cover expenses to demobilize and remobilize, if requested by SAWS. SAWS reserves the right to request that Contractor vacate premises at any time. If such a request is made, Bid Item 5 is intended to cover this expense.

2. Will these Drying Beds contain any Sludge to be removed? If so, must this Sludge be profiled, manifested and disposed of at an approved landfill?

No, sludge will be removed by SAWS prior to initiating work. However, please be aware that SAWS will be operating beds not being rehabilitated. As noted in the contract documents, no more than six (6) beds can be out of service.

3. Must any or all of the existing sand, gravel or clay to be removed be profiled, manifested and disposed of at an approved landfill?

The material within the existing drying beds is not hazardous. Disposal of material is left to Contractor's means and methods.

4. Is Sludge classified as a hazardous waste? What level of classification?

No, sludge on beds is not classified as a hazardous material. Refer to Question No. 2 for additional information.

5. Is the under-drain material, sand, gravel and clay classified as hazardous waste? What level of classification?

No, the underdrain (perforated PVC Pipe), sand, gravel, and clay materials are not classified as hazardous materials.

6. Sheet G2 Field Survey Requirements. Calls to acquire invert elevations for all 6" underdrain pipes before initiating any work. Does this mean we have to enter 32 active drying beds; expose the 6" underdrain in at least 15 locations (pipe ends and ties to 8" trunkline), acquire and document invert elevations, before we begin any demolition? Will this disrupt the Drying Beds integrity that may not be scheduled to be removed until some later date?

No, this can be accomplished prior to starting work on each individual drying bed. Contractor shall confirm the invert elevation at each drain manhole and drain pipe.

7. The proposed elevations and layout of the "new" underdrain piping should match the elevations and layout of the "old" demolished system correct?

Yes, the new underdrain pipe system shall match the existing underdrain system.

8. Sheet C 1 states Bed C-2 to remain as is. Sheet S 1 Note 1 says Bed C-3 to remain as is. Weren't both these beds C-2 and C-3 improved in a prior project? Will this change the Base Bid from 32 EA to 31 EA?

Bed C-2 as noted on Sheet C-1 is the concrete bed that will remain as is. Note 2 on Sheet S1 should indicate Bed C-2 to remain as is. The number of beds in the base bid is 32 as shown on the Bid Form.

9. Please confirm that all material being removed and disposed of is inert and will not require a manifest for disposal.

Material is not hazardous. Disposal of material is left to the Contractor's means and methods.

CHANGES TO THE PLANS

1. Sheet S-1- Sludge Bed Cell A, B, C, & D Structural Plans – Remove in its entirety and replace with the revised version attached to this Addendum.

END OF ADDENDUM

This Addendum, including these 2 pages, is 3 pages with attachments in its entirety.

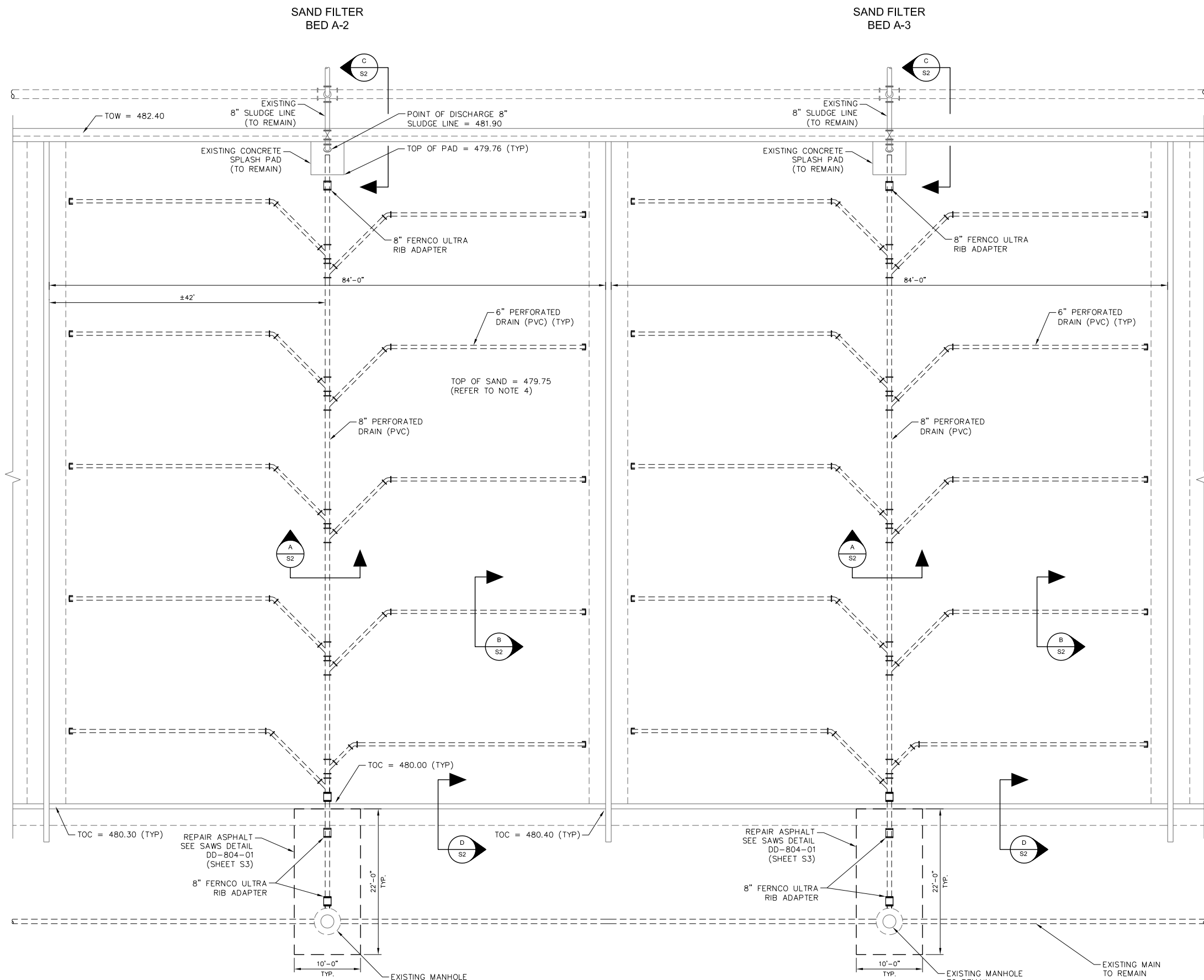


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TBPE Firm No. F-17794



12/6/19

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**SLUDGE BED A-2
 & A-3 PLAN VIEW**
 SCALE: 1/8"=1'-0"

NOTES:

- REFER TO DEMOLITION PLAN (SHEET D1).
- THIS DRAWING DEPICTS BED A-2 AND A-3 AND TYPICAL OF UPGRADES REQUIRED AT ALL REMAINING BEDS (A-1 TO A-11, B-1 TO B-11, AND C-1 TO C-11). EXISTING CONCRETE DRYING BED (C-2) TO REMAIN AS IS.
- NO MORE THAN SIX (6) SLUDGE DRYING BEDS MAY BE OUT OF SERVICE AT ANY ONE TIME.
- TOP OF SAND LAYER ALL BEDS:
 - A1 TO A11= 479.75'
 - B1 TO B6= 484.75'
 - B7 TO B11= 479.75'
 - C1 TO C6= 484.75'
 - C7 TO C11= 479.75'
 - D1 TO D4= 484.75'
 - D5 TO D6= 484.75'
 - D7 TO D11= 479.75'
- FIELD VERIFY ALL ELEVATIONS PRIOR TO STARTING ANY WORK. NOTIFY ENGINEER OF ANY DISCREPANCY.

SLUDGE DRYING BED MATERIAL

GRAVEL

WASHED GRAVEL SHALL BE PROPERLY GRADED IN SIZE FROM 1/4 -INCH TO 1-INCH AND MINIMUM 12-INCH DEPTH IN THREE (3) OR FOUR (4) LAYERS. EXTENDED 6-INCHES ABOVE THE TOP OF THE UNDERDRAINS. THE TOP LAYER OF AT LEAST 3-INCHES SHOULD CONSIST OF SAND 1/8 -INCH TO 1/4-INCH IN SIZE TO SUPPORT SAND. SET GRAVEL ON TOP OF IMPERVIOUS CLAY LAYER.

SAND

GRADE	U.S. SIEVE NO.	PARTICLE DIAMETER	WEIGHT RETAINED	USGA SAND ANALYSIS		
				PERCENT RETAINED	SPECIFICATIONS	
					MIN	MAX
Fine Gravel	10	2.00 - 3.40mm	0.8 g	0.80%		3%
Very Coarse Sand	18	1.00 - 2.00mm	11.4 g	10.70%		10%
Coarse Sand	35	0.50 - 1.00mm	58.8 g	55.20%	60%	
Medium Sand	60	0.25 - 0.50mm	34.9 g	32.70%		
Fine Sand	100	0.15 - 0.25mm	0.7 g	0.70%		20%
Very Fine Sand	270	0.05 - 0.15mm	0 g	0.00%		5%
Silt & Clay	-270	< 0.05mm	0 g	0.00%		10%
TOTALS			106.6 g	100%		8%

UNDERDRAIN

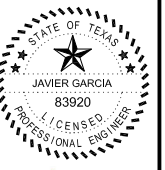
PROVIDE PVC PERFORATED PIPE IN TRENCH AS SHOWN (ASTM D-3034, SDR 35)

CLAY

- PLASTICITY INDEX: ABOVE A-LINE
- LIQUID LIMIT: 50 OR GREATER
- GRADATION: AMOUNT PASSING NO. 200 SIEVE - GREATER THAN 50%
- INORGANIC



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**SAN ANTONIO
 WATER SYSTEM**
 SAN ANTONIO, TEXAS



**STEVE M CLOUSE WRC SAND
 DRYING BED IMPROVEMENTS
 SLUDGE BED CELL A, B, C, & D
 STRUCTURAL PLAN**
 SAWS PROJECT NO. 19-6803
 SAN ANTONIO, TEXAS

PROJ. NUMBER:	1038
DESIGNED:	JG
DRAWN:	CAD
DRAWING NUMBER	S1
SHEET NUMBER	8