

ADDENDUM NO. 2

DATE: October 12, 2011

PROJECT: The Village of Aberdeen New Water Treatment Plant

PROJECT NUMBER: 11-021

OWNER: The Village of Aberdeen

ENGINEER: Bell Engineering Limited, Inc.
05691 State Route 15
Bryan, Ohio 43506

TO: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents.

***Acknowledge receipt of this Addendum in the space provided in the Bid Form.
Failure to do so may disqualify the Bidder.***

The following items shall become a part of the contract documents for this project.

- 1. Compacted Aggregate for Tanks** – No vapor barrier is required below the tank slab. 4" of compacted granular should be used for leveling purposes. Item 07145 applies to the Clearwell as well as the Equalization Tank.
- 2. Seeding Specification** - Item 02936 Seeding specification is attached to this addendum.
- 3. Plant Effluent** - The plant effluent is an 8" waterline. A revised sheet C1.2 is attached to this addendum.
- 4. Existing Waterline** - The existing waterline that the proposed 8" line is to be connected to is a 6" transite line.
- 5. Existing Sanitary Line** – The existing sanitary line is a 12" line. An inserta-tee should be used to connect the proposed sanitary line from the Equalization Tank to the existing line.
- 6. Finish Floor Elevation and Top of Clearwell Elevation** - The top of the clearwell is the same elevation as finish floor 100'-0", which relates to 522.50 MSL. A revised sheet S2.2 is attached to this addendum.
- 7. Sanitary Force Main Boring** - The boring for the sanitary force main is approximately 70 LF of 16" Bored Steel Casing for the 8" sanitary force main. Contractor must verify size of the force main prior to construction and notify Engineer if there are any discrepancies. A drawing showing the approximate location of the boring and MH #2195 is attached to this addendum.

END OF ADDENDUM NUMBER 2

ITEM 02936

Seeding

PART 1 GENERAL

1.01 Work Included but not limited to

- A. Fine Grading
- B. Seeding
- C. Fertilizer
- D. Mulch
- E. Protection of finished areas until project acceptance

1.02 References/Definitions (N/A)

1.03 Submittals

- A. Submit the manufacturers' certifications for all products showing purity, composition, quantity, etc.

1.04 Delivery, Storage and Handling (N/A)

1.05 Environmental Requirements (N/A)

1.06 Guarantee/Warranty (N/A)

1.07 Qualifications

- A. All materials shall be furnished in original undamaged containers.
- B. Written approval of the Engineer shall be obtained for the seed bed prior to any seeding operations.
- C. Seeding operations shall not be performed when the ground is frozen or muddy, or when weather conditions would prevent the proper soil preparation as specified.
- D. It will be required that the Contractor establish a good stand of grass of uniform color and density to the satisfaction of the Engineer. If at the time of contract completion it is not possible to make an adequate determination of color, density and uniformity of such stand of grass, payment for the unaccepted of such stand of grass, payment for the unaccepted portions of the areas seeded shall be withheld until and adequate determination is made.

PART 2 PRODUCTS/MATERIALS

2.01 Manufacturers (N/A)

2.02 Materials

- A. Seed for **Residential Seeding** Areas
 1. All grass seed shall have a minimum purity of 90 percent.
 2. All seeds are to be furnished in separate varieties, separately packaged or bagged, and shall be labeled, tagged or marked.
 3. Seed shall be furnished for Residential Seeding Areas with the following mixture:

Seed	Portion By Weight
Kentucky Bluegrass - (<i>Poa pratensis</i>)	40%
Creeping Red Fescue - (<i>Festuca rebra</i>)	40%
Annual Ryegrass - (<i>Lolium multiflorum</i>)	20%

- 4. All seed shall have a minimum germination of 80%, and shall be applied at a minimum rate of 3 pounds per 1000 square feet.
- B. Seed for **CRP Seeding** Areas
 1. All grass seed shall have a minimum purity of 90 percent.
 2. All seeds are to be furnished in separate varieties, separately packaged or bagged, and shall be labeled, tagged or marked.

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3. Seed shall be furnished with the following mixture:

Seed	Portion By Weight
Red Clover	46%
Alsike Clover	15%
Orchardgrass	23%
Timothy	15%

4. All seed shall have a minimum germination of 80%, and shall be applied at a minimum rate of 2 pounds per 1000 square feet.

C. Fertilizer

1. Commercial fertilizers shall be from a dealer or manufacturer whose brands and grades are registered or licensed by the State of Ohio, Department of Agriculture.
2. Fertilizer may be dry or liquid in analysis specified or t in the same ratio of specified.
3. The fertilizer shall be supplied in mixtures containing the percentages (by weight) of total nitrogen, available phosphoric acid, and water soluble potash as follows, 12-12-12.

D. Mulch

1. Mulch shall be straw of threshed plant residue of oats, wheat, barley, rye or rice from which the grain has been removed.
2. Mulch materials which contain matured seed of species, which would volunteer and be detrimental to the proposed overseeding will not be acceptable.
3. Mulch excessively brittle, or which is in such an advanced stage of decomposition as to smother or retard the planted grass will not be acceptable.

2.03 Associated Materials (N/A)

PART 3 EXECUTION

3.01 Coordination/Scheduling (N/A)

3.02 Examination/Preparation (N/A)

3.03 Installation/Execution

A. Areas to be prepared & seeded

1. All areas within the right of way limits shall be included.
2. All areas of existing grass (yard) shall be included.
3. All areas of existing CRP (agricultural) shall be included.
4. All areas currently being used for agricultural purposes shall not be included.

B. Fine Grading

1. After grading of areas has been completed and before applying fertilizer, all areas to be seeded shall be raked or otherwise cleared of stones larger than 2 inches in diameter, sticks, stumps and other debris, which might interfere with the sowing of seed, growth of grasses, or subsequent maintenance of grass-covered areas.

2. If any damage by erosion or other causes has occurred after the completion of grading and before the beginning of any seeding operation, said areas shall be repaired.

a. This may include gullies, smoothing irregularities and repairing other incidental damage.

3. Any area to be seeded shall be considered as satisfactory seedbed without additional treatment if it has recently been thoroughly loosened and worked to a depth not less than 5 inches as a result of the grading operations, and if immediately prior to seeding, the top 3 inches of soil is loose, friable, reasonably free from large clods, rocks, large roots, or other undesirable matter, and if the shape is to the required grade.

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4. When areas to be seeded are sparsely wooded, weedy, barren and unworked, or packed and hard, any grass and weeds shall first be cut or otherwise satisfactorily disposed of.

a. The soil shall then be scarified or otherwise loosened to a depth not less than 5 inches. Clods shall be broken and the top 3 inches of soil shall be worked into a satisfactory seedbed by discing, or by use of cultipackers, rollers, drags, harrows, or other appropriate means.

C. Fertilizer

1. The fertilizer shall be applied at a rate of 20 pounds per 1000 square feet.

D. Seeding

1. Dry Application

a. The fertilizer shall be applied at the specified rate, uniformly over the entire area to be seeded.

b. The seed mixture shall be applied at the rate specified above uniformly over the area to be seeded, immediately following the fertilizing operation.

c. The seeded areas shall then be raked in an approved manner to cover the seed with approximately 1/4 inch of soil.

d. After the seed has been properly covered, the seedbed shall be immediately compacted by means of approved lawn roller

(1). For clay soils, 40 to 65 pounds per foot of width.

(2). For sandy and light soils, 150 to 200 pounds per foot of width.

2. Wet Application

a. The Contractor may elect to apply seed and fertilizer by spraying them onto the prepared seedbed in the form of an aqueous mixture.

b. After the aqueous mixture has been applied to the seedbed, the seed shall be covered with 1/4 inch of soil and rolled, as specified in dry application.

E. Mulching

1. The mulch material shall be applied within 48 hours of the seeding operation and shall be spread evenly over the seed area as follows:

a. From March 15 to October 15, 2 tons per acre.

b. From October 15 to March 15, 3 tons per acre.

3.04 Protection of Finished Areas Until Project Acceptance

A. Any areas of damage or erosion where the seeding operation has been complete shall be repaired as directed by the Engineer.

1. This damage may or may not be as a result of the Contractor's negligence.

2. This Item shall apply only until the project has been accepted by the Engineer/Owner.

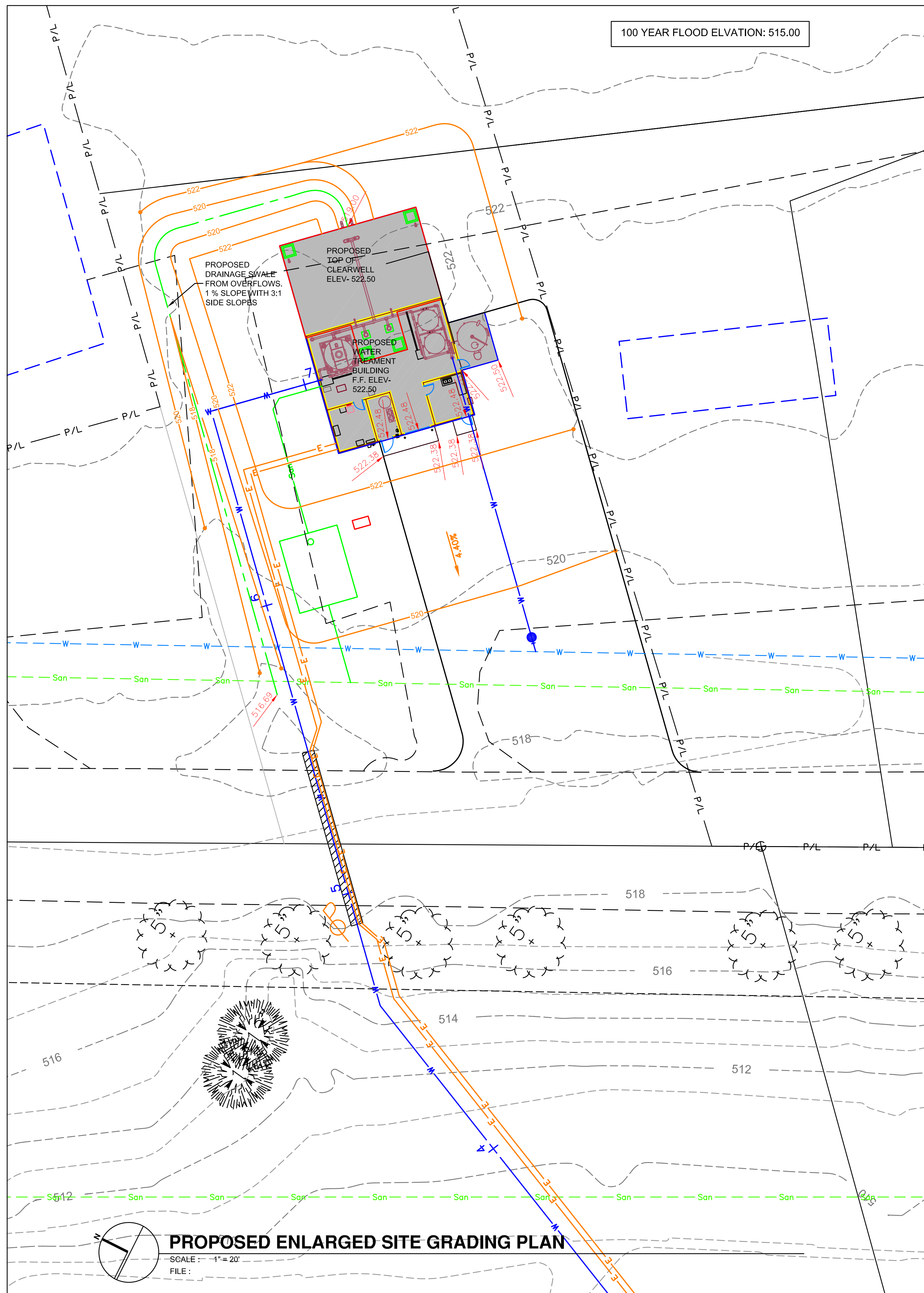
B. Any areas damaged shall be reshaped (topsoil added if necessary) to grade, refertilized, reseeded and mulched in accordance with this specification.

PART 4 METHOD OF PAYMENT

4.01 The lump sum price for Item 02936 shall constitute full compensation for furnishing all labor, materials, tools, equipment, and services necessary for seeding and mulching all disturbed grass areas in accordance with Contract Drawings and Specifications. This Item includes fertilizing and mulching.

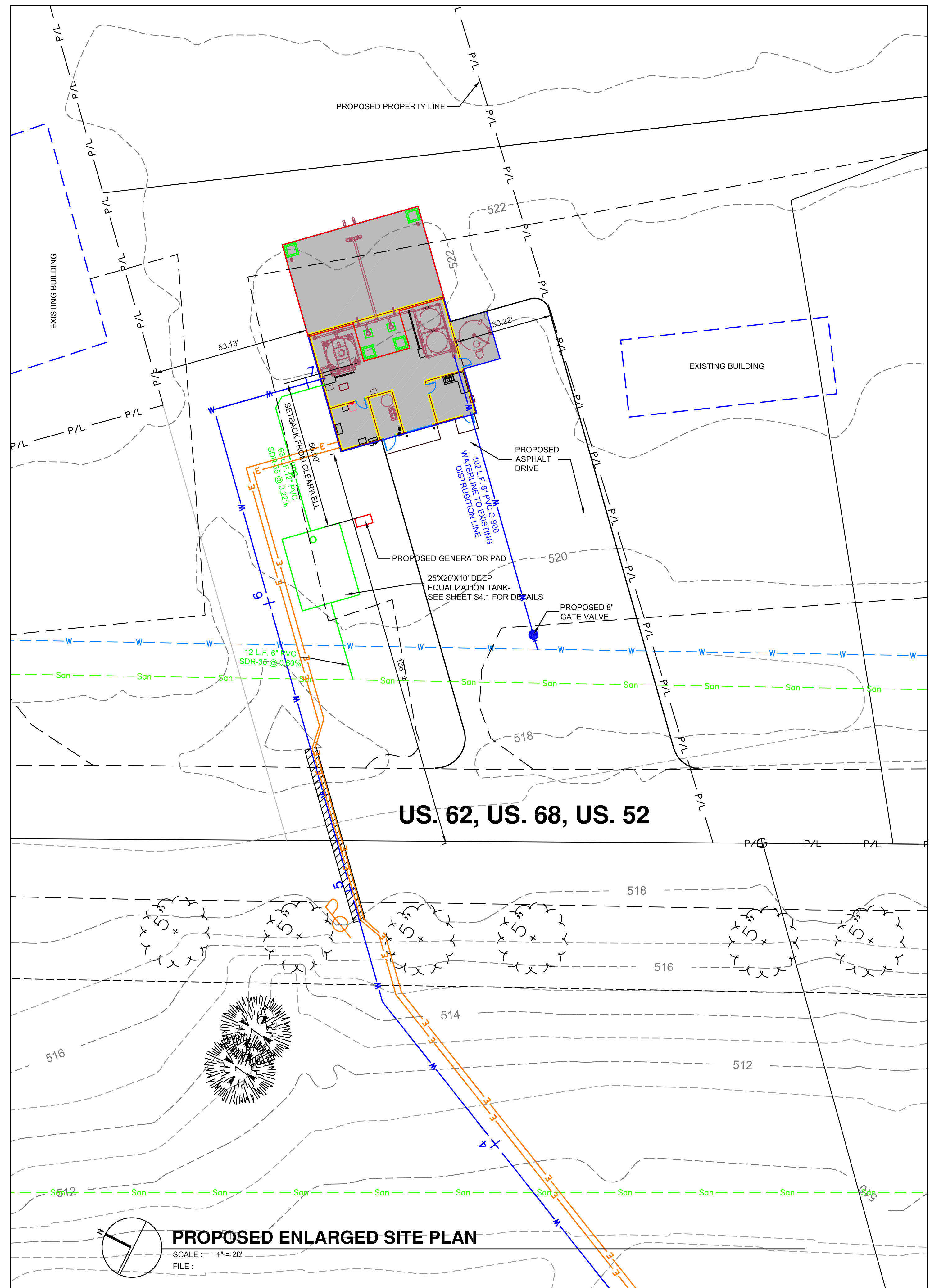
END OF ITEM

100 YEAR FLOOD ELEVATION: 515.00



PROPOSED ENLARGED SITE GRADING PLAN

SCALE: 1" = 20'
FILE:



PROPOSED ENLARGED SITE PLAN

SCALE: 1" = 20'
FILE:

Bell Engineering United Inc.
5691 State Route 15
P.O. Box 665
Bryan, Ohio 43506
419-636-2985
fax: 419-636-6434

PROPOSED WATER TREATMENT FACILITY for

VILLAGE OF ABERDEEN

ABERDEEN, OHIO

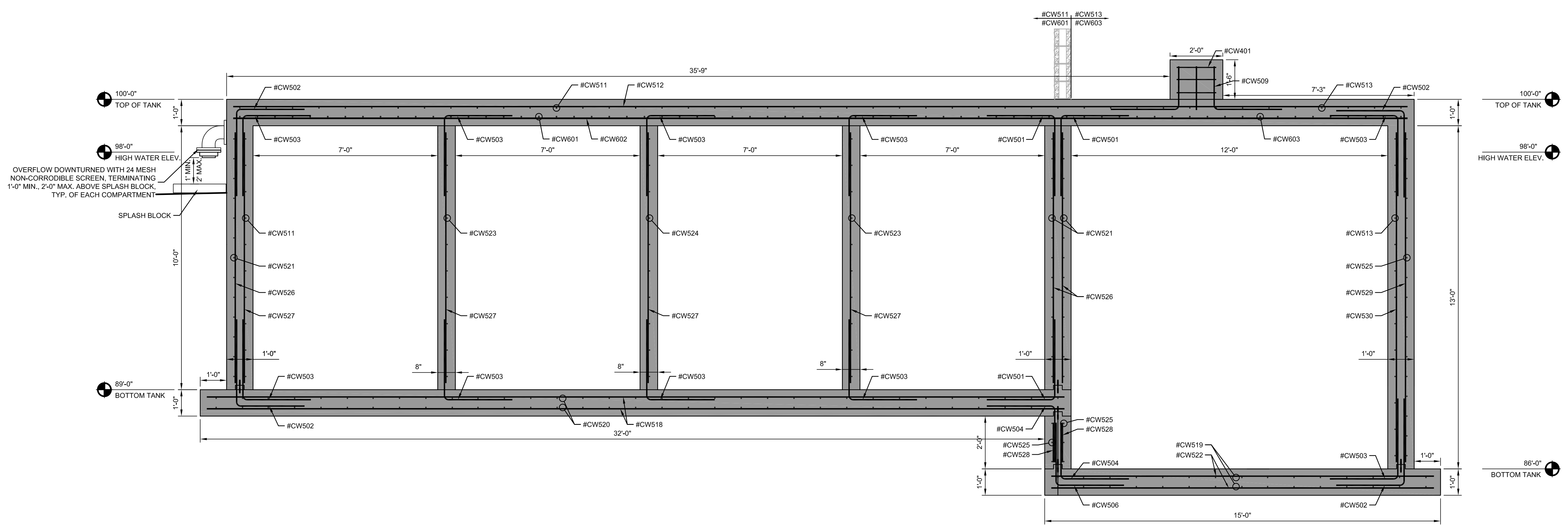
PROPOSED ENLARGED SITE PLAN

Job No:
11-021

10-18-11 BID SET
10-12-11 ADDENDUM #2

C1.2

PROPOSED WATER TREATMENT FACILITY for
VILLAGE OF ABERDEEN
 ABERDEEN, OHIO
CLEARWELL TANK SECTIONS



CLEARWELL TANK SECTION
 SCALE: 1/2" = 1'-0"

Job No:
11-021
 ISSUE DATES:
 10-18-11 BID SET
 10-12-11 ADDENDUM #2



THIS DRAWING IS FOR REPRESENTATION PURPOSES ONLY AND IS NOT TO SCALE.

APPROXIMATE PROPERTY LOCATION

PROPOSED WELL FIELD

PROPOSED TREATMENT PLANT LOCATION

LOT 5

LOT 6

LOT 7

LOT 8

N

