

W. Laird Ellis, Jr.
CH2M Hill
9191 south Jamaica Street
Englewood, Colorado 80112

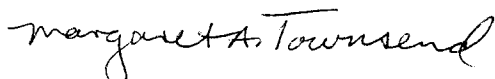
June 21, 2007

Dear Mr. Ellis,

I am writing to you concerning the city of Parsons water intake and treatment plant upgrades. Based on the information provided to me all of the proposed work appears adequate to address the current facility problems. As long as there are no issues concerning overflow or sediment concentration from the water source I see no reason why the project should not proceed.

The above comments are based on regional geologic conditions and limited information available to the KGS at the time of writing and cannot be used in substitute for a detailed site characterization. Other geologic conditions, not discussed here, or for which the KGS has no knowledge, may affect the viability or safe operation of this facility or property. Geotechnical engineering and design are outside the purview of the KGS. It is the responsibility of the applicant to produce any detailed site characterizations, geotechnical or environmental testing, or design by a licensed professional geologist or engineer to complete the project.

Sincerely,



Margaret A. Townsend
Hydrogeologist

The following form may be used by the Review Agency/Commission for comments in response to the request for clearance from the proposed Public Water Supply Loan Fund Project.

☐ Army Corps of Engineers
☐ Kansas Biological Survey
☐ State Conservation Commission
☐ Kansas Corporation Commission
☐ Division of Water Resources/Kansas Department of Agriculture
☒ Kansas Geological Survey
☐ Kansas State Historical Society, State Historic Preservation Office
☐ Kansas Water Office
☐ Kansas Department of Wildlife & Parks
☐ US Dept of Agriculture - Natural Resources Conservation Service
☐ Kansas Department of Health and Environment
☐ US Dept of the Interior - Fish and Wildlife Service

Agency Review Comments: (to be completed by reviewing agency and returned to applicant contact person at name and address shown below)
Comments:

Recommended Action: (to be completed by the reviewing agency and returned to applicant contact person at name and address shown below.)

☒ Clearance of project should be granted
☐ Clearance of project should not be granted
☐ Clearance of project should be delayed until the issues or questions have been clarified.
☐ Clearance of project should not be delayed, but the applicant (in the application) should address or clarify the questions or concerns indicated above.)

Margaret A. Townsend KGS 6-21-07
Reviewer's Name Division/Agency/Commission Date

Project Title: Public Water Supply Loan Fund Application

Applicant: City of Parsons, Kansas
Contact Person: W. Laird Ellis, Jr.
CH2M HILL
9191 South Jamaica Street
Englewood, Colorado 80112
(720)-286-2300



CH2MHILL

CH2M HILL

9191 South Jamaica Street
Englewood, CO 80112-5946
P.O. Box 22508
Denver, CO 80222-0508
Tel 303.771.0900
Fax 720.286.9250

May 14, 2007

177447.08.03

Kansas Geological Survey
University of Kansas
1930 Constant Ave., Campus West
Lawrence, KS 66047

Subject: City of Parsons, Kansas Raw Water System Improvements
Kansas Public Water Supply Loan Fund Project No. 2394

On July 28, 2005, the Kansas Geological Survey recommended clearance for construction of the referenced project. During construction of the approved facilities, hydrocarbon contamination from underground storage tanks was discovered at the proposed location for the raw water pump station. The Kansas Department of Health and Environment (KDHE) required relocation of the raw water pump station away from the contaminated location. As part of that relocation, the raw water intake on Labette Creek is proposed to be moved upstream approximately 80 feet, to a point 30 feet upstream from the plant's existing intake. Since the project is being funded by a loan from the Kansas Public Water Supply Loan Fund, KDHE is requiring new environmental clearances for the project.

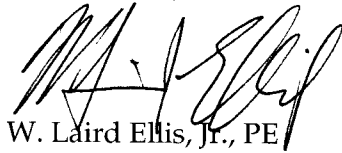
The project consists of new raw water and preliminary treatment facilities for the Parsons Water Treatment Plant located on the south bank of Labette Creek in Section 7, Township 31 South, Range 20 East, Labette County, Kansas. A location map is enclosed as Attachment 1. Proposed facilities include a raw water intake, a raw water pump station, a pre-sedimentation basin, a pre-oxidation contact basin, additional chemical feed systems, and yard piping modifications. All proposed facilities are located within the existing boundaries of the plant site. As stated above, the existing Labette Creek Intake will be replaced with a new structure located approximately 30 feet upstream from the existing intake. Figure 2 – Raw Water Pump Station And Intake Relocation and Drawing 45-SM-1 of the intake structure are enclosed as Attachments 2 and 3 respectively. The construction cost estimate is \$2,179,000.

Kansas Geological Survey
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May 14, 2007
177447.08.03

We would appreciate your review of the project description and location. Please return any comments you may have within 30 days. A project review form, Attachment 4, is enclosed for your use. Please call Laird Ellis at (720) 286-2300 if you have any questions.

Sincerely,

CH2M HILL, Inc.



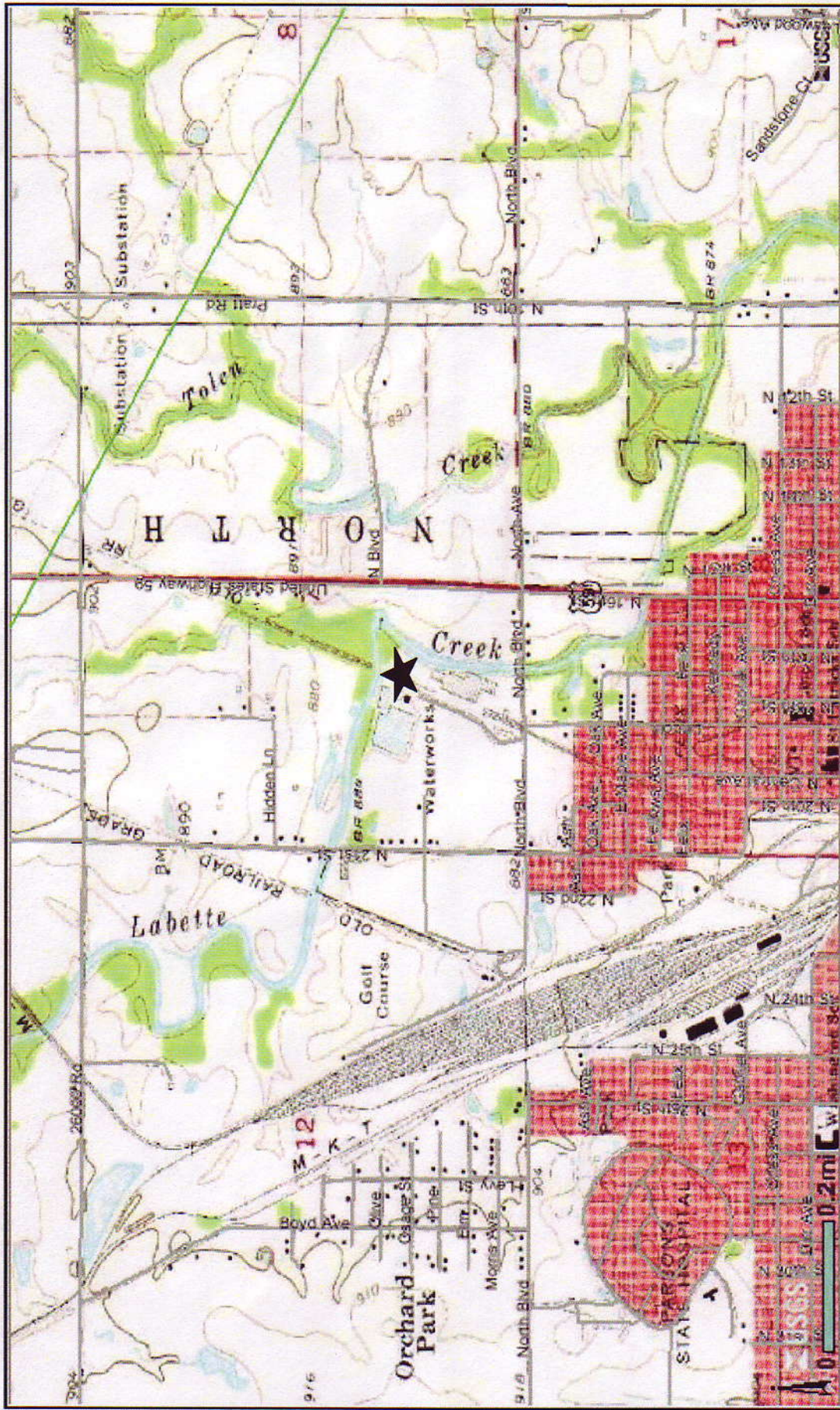
W. Laird Ellis, Jr., PE
Design Manager

DEN/2007-05-14 KDHE Environmental Clearance Request KGS.doc

Attachments

- 1 - Location Map
- 2 - Figure 2, Raw Water Pump Station and Intake Relocation
- 3 - Drawing 45-SM-1, Labette Creek Intake Structure - Plan, Sections, and Details
- 4 - KDHE Project Review Form

c: City of Parsons
Kansas Department of Health and Environment



Attachment 1
 Excerpt, Parsons West, KS USGS 7.5 Quadrangle
 Parsons Water Treatment Plant, Parsons, Labette County, Kansas

NOTES:
1. MAX IN EL 879.0, MIN IN EL 871.9 FOR 20" RW.

0 20 30 40
Scale In Feet

PRE-OXIDATION
BASIN INLET
STRUCTURE

SEE NOTE 1

12" PD

24" RW

20" RW

12" PD

1/2" SA

1/2" PMS

24" RW

CAP 20" RW
PIPE LINE

PRE-SEDIMENTATION
BASIN
(CELL 2)

LAGOON

LAGOON

DSGN ENGINEER
DR DRAWN-BY
CHK CHECKED-BY
APVD APPROVED-BY

NO. DATE

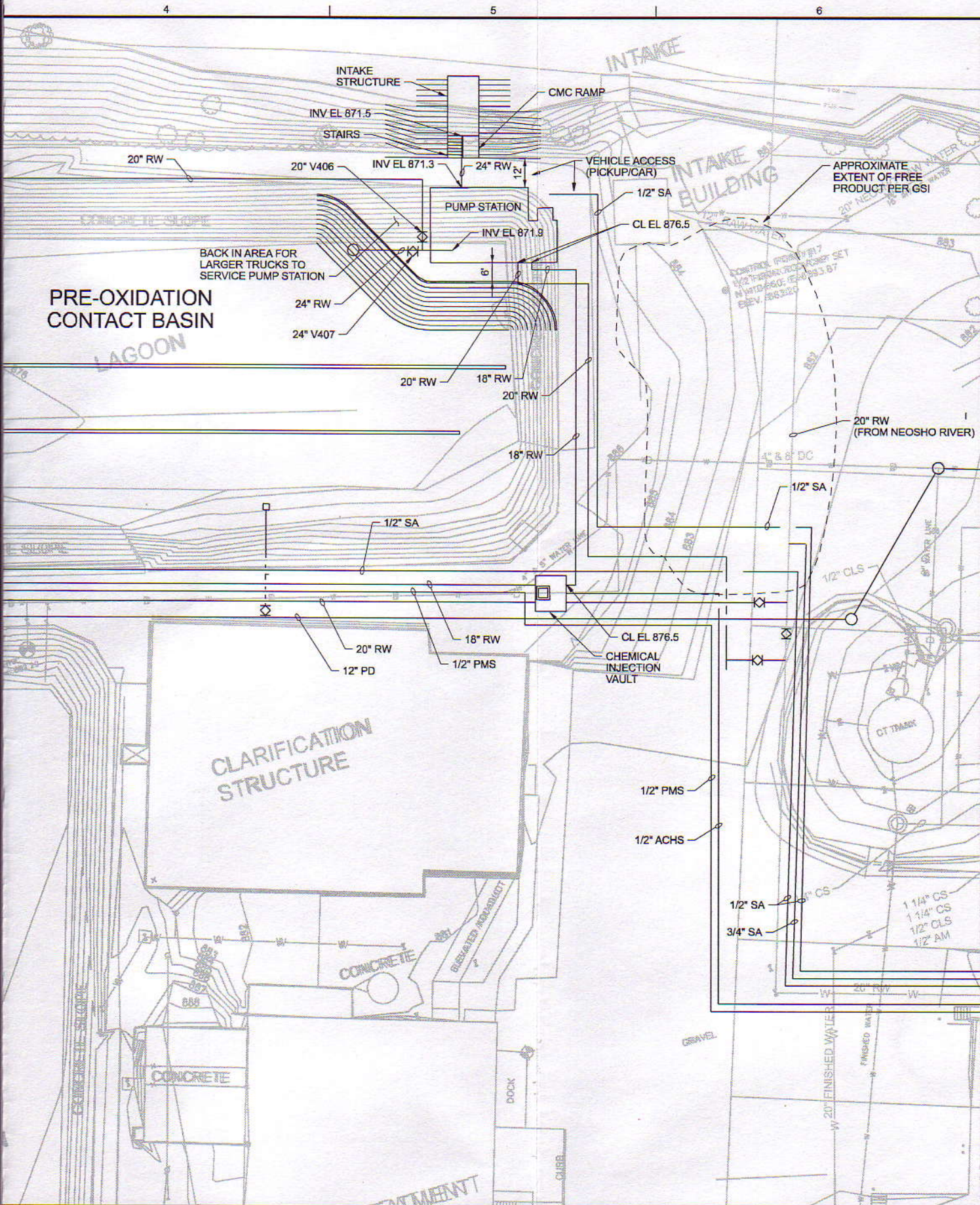
REVISION

BY APVD

VERIFY SCALE

BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

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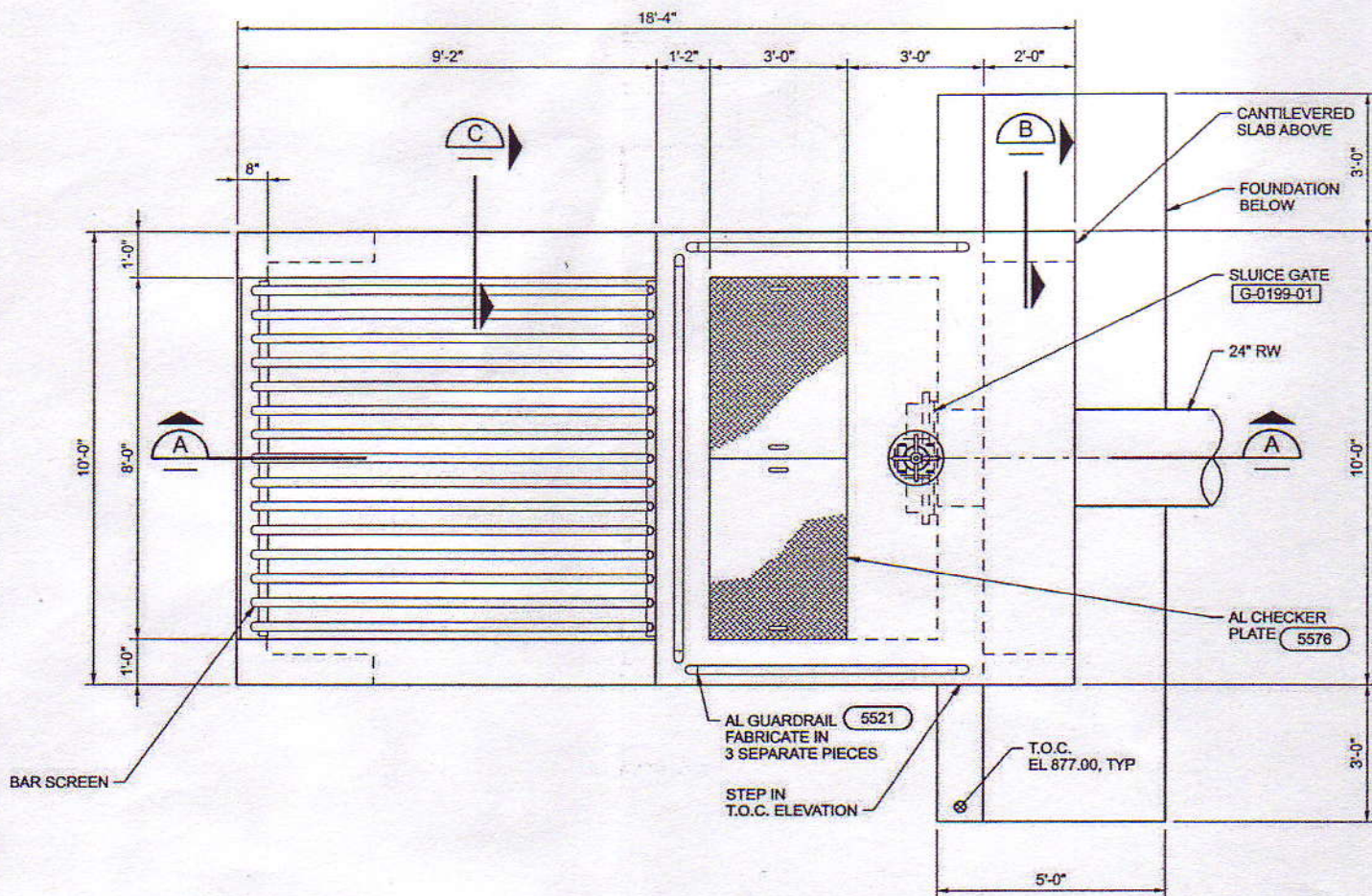
2MHILL

CITY OF PARSONS
WATER TREATMENT PLANT
RAW WATER SYSTEM IMPROVEMENTS
PARSONS, KANSAS

SITE/CIVIL
FIGURE 2
RAW WATER PUMP STATION
ADD INTAKE RELOCATION

SHEET	SHEET-NO
DWG	DRAWING-NO
DATE	CDD-DATE
PROJ	177447

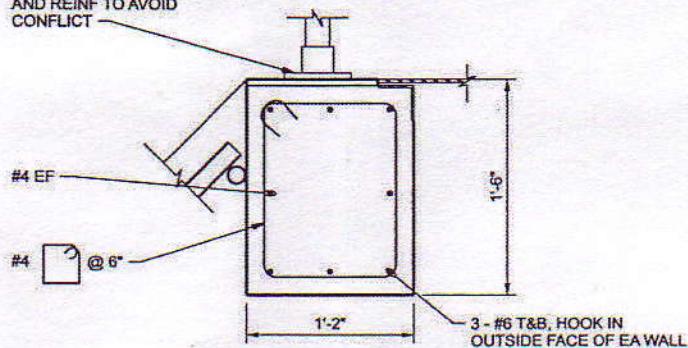
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LABETTE CREEK INTAKE PLAN

1/2"=1'-0"

COORDINATE LOCATION
OF HANDRAIL ANCHORS
AND REINF TO AVOID
CONFLICT



DETAIL 1

1 1/2"=1'-0"

T.O.C.
EL 880.0

DSGND ROBILARD
S PATTERSON

DR

C SINCLAIR

CHK D YEARSLEY

D WAGNER

APVD

L ELLIS

NO. DATE

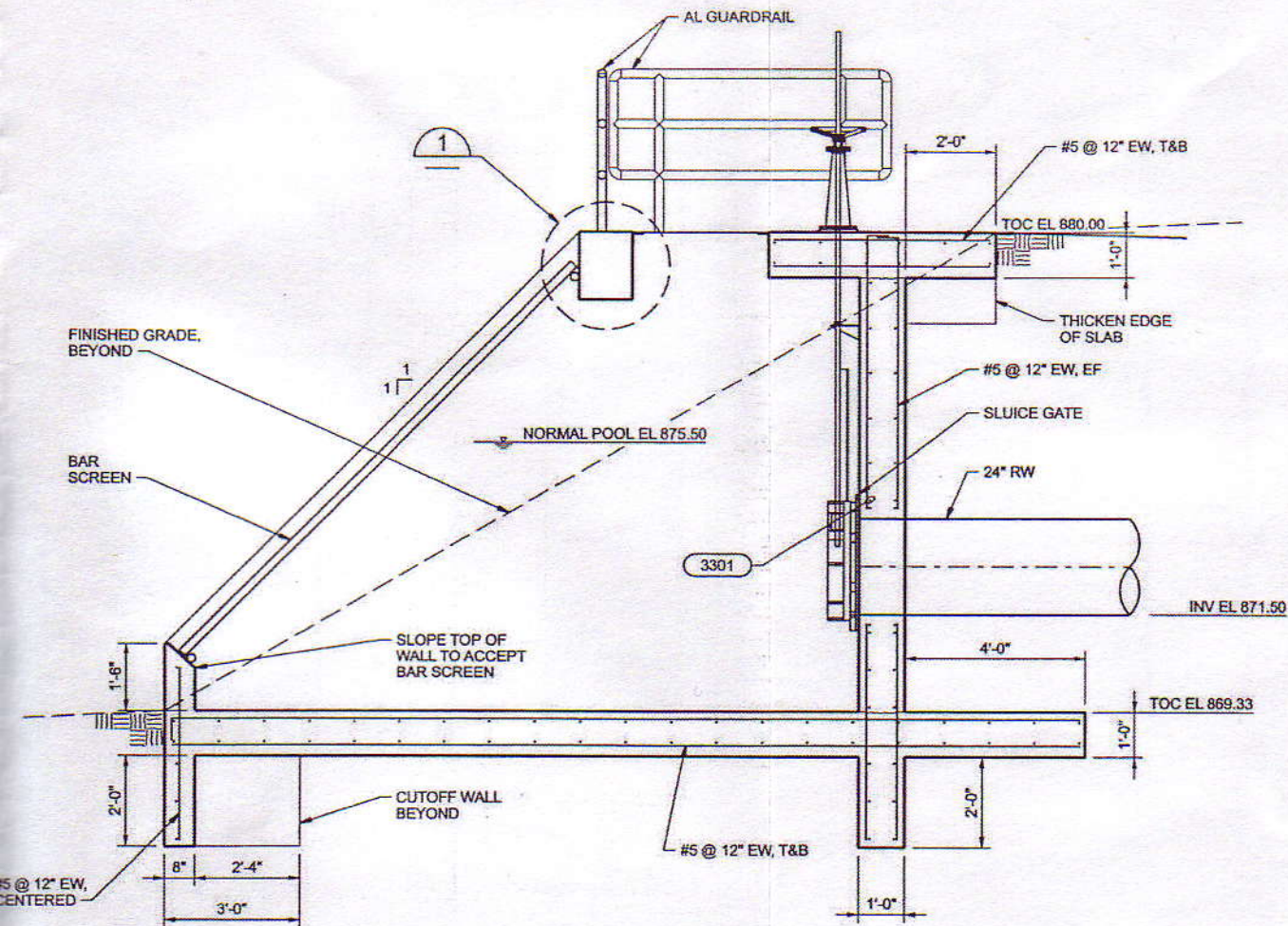
REVISION

BY APVD

VERIFY SCALE

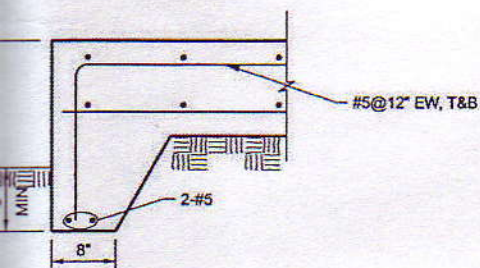
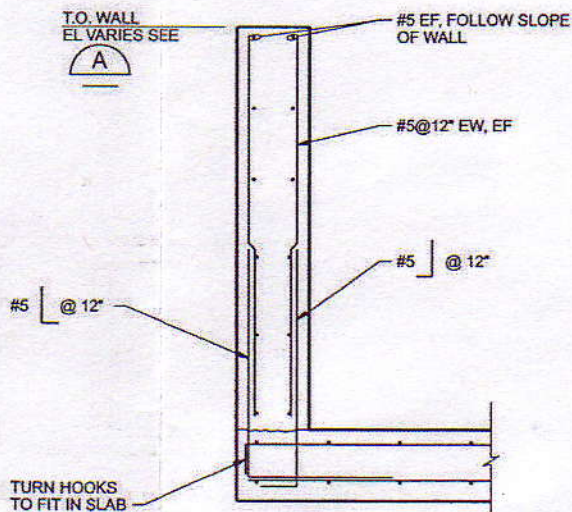
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ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

CH



SECTION A
1/2"=1'-0"

T.O. WALL
EL VARIES SEE
A



SECTION B
1"=1'-0"

SECTION C
1"=1'-0"

CH2M HILL

CITY OF PARSONS
WATER TREATMENT PLANT
RAW WATER SYSTEM IMPROVEMENTS
PARSONS, KANSAS

STRUCTURAL/MECHANICAL
RAW WATER PUMP STATION
LABETTE CREEK INTAKE STRUCTURE
PLAN, SECTIONS AND DETAIL

SHEET	X
DWG	45-SM-1
DATE	JUNE 2005
PROJ	177447

FILENAME: 177447_pk45psm101.dlv PLOT DATE: 21-JUN-2005

PLOT TIME: 10:51:17

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