

KANSAS GEOLOGICAL SURVEY

1930 Constant Ave., Campus West
The University of Kansas
Lawrence, Kansas 66047-3726
Phone: 785-864-3965
Fax: 785-864-5317

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

July 28, 2005

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 evaluation of this project is based only on the information provided to me with the request and that available at my office.

Sincerely,

Margaret A. Townsend
Hydrogeologist



CH2MHILL

CH2M HILL

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Englewood, CO 80112-5946

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Denver, CO 80222-0508

Tel 303.771.0900

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July 15, 2005

177447.T4.DM

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

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

The City of Parsons is preparing an application to the Kansas Department of Health and Environment for a loan from the Kansas Public Water Supply Loan Fund for the referenced 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. The existing Labette Creek Intake will be replaced with a new structure located approximately 50 feet downstream from the existing intake. Drawing 20-C-2 of the intake site and Drawing 45-SM-1 of the intake structure are enclosed as Attachments 2 and 3 respectively. The current Engineer's Opinion of Probable Construction Cost is \$2,200,000.

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.

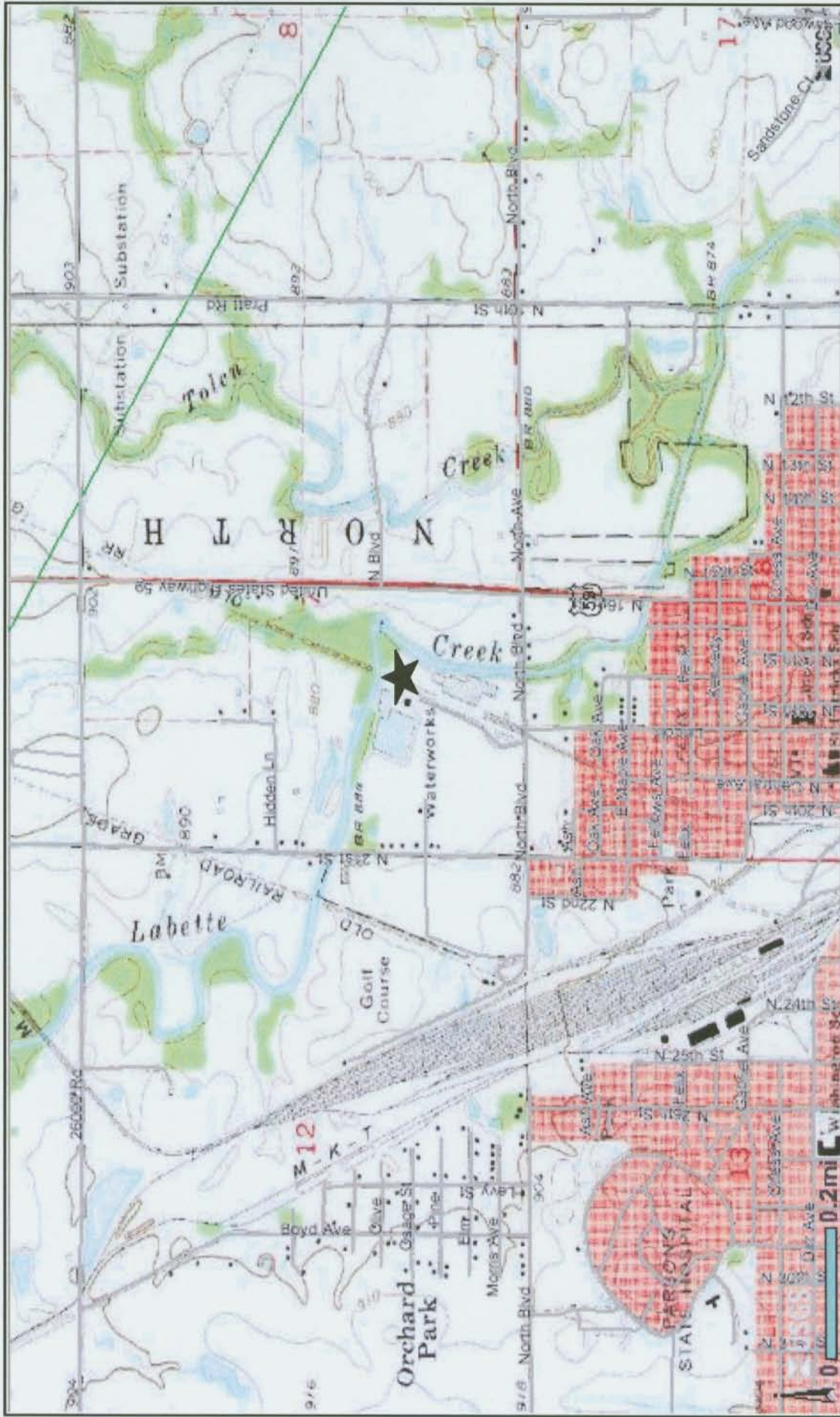
W. Laird Ellis, Jr., PE
Design Manager

DEN/2005-07-15 KDHE Environmental Clearance Request KGS.doc

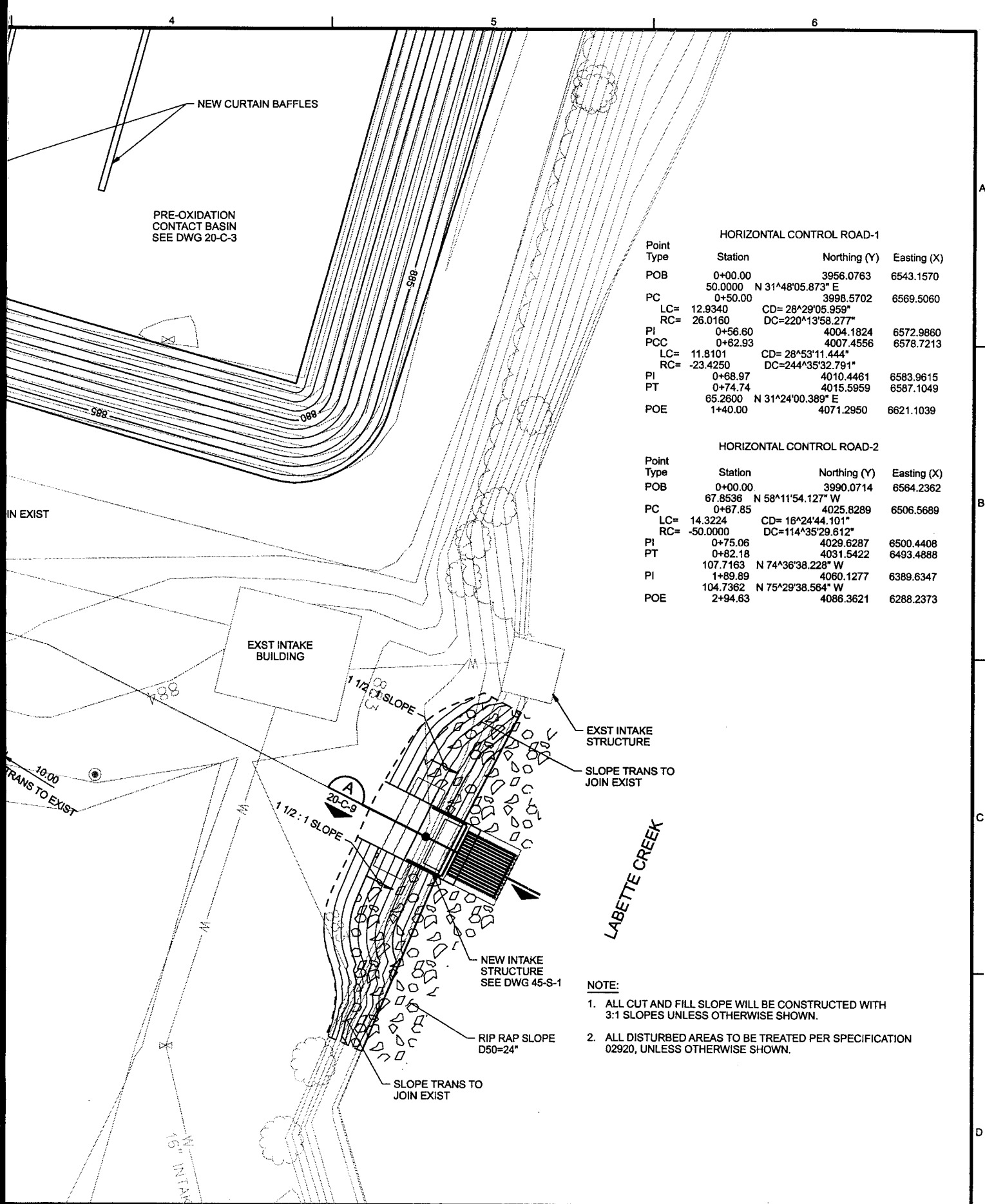
Attachments

- 1 - Location Map
- 2 - Drawing 20-C-2, Grading Plan
- 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



HORIZONTAL CONTROL ROAD-1			
Point Type	Station	Northing (Y)	Easting (X)
POB	0+00.00	3956.0763	6543.1570
	50.0000 N 31°48'05.873" E		
PC	0+50.00	3998.5702	6569.5060
LC=	12.9340	CD= 28°29'05.959"	
RC=	26.0160	DC=220°13'58.277"	
PI	0+56.60	4004.1824	6572.9860
PCC	0+62.93	4007.4556	6578.7213
LC=	11.8101	CD= 28°53'11.444"	
RC=	-23.4250	DC=244°35'32.791"	
PI	0+68.97	4010.4461	6583.9615
PT	0+74.74	4015.5959	6587.1049
POE	65.2600 N 31°24'00.389" E		
	1+40.00	4071.2950	6621.1039

HORIZONTAL CONTROL ROAD-2			
Point Type	Station	Northing (Y)	Easting (X)
POB	0+00.00	3990.0714	6564.2362
	67.8536 N 58°11'54.127" W		
PC	0+67.85	4025.8289	6506.5689
LC=	14.3224	CD= 16°24'44.101"	
RC=	-50.0000	DC=114°35'29.612"	
PI	0+75.06	4029.6287	6500.4408
PT	0+82.18	4031.5422	6493.4888
PI	107.7163 N 74°36'38.228" W		
	1+89.89	4060.1277	6389.6347
POE	104.7362 N 75°29'38.564" W		
	2+94.63	4086.3621	6288.2373

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

SITE/CIVIL
GRADING PLAN

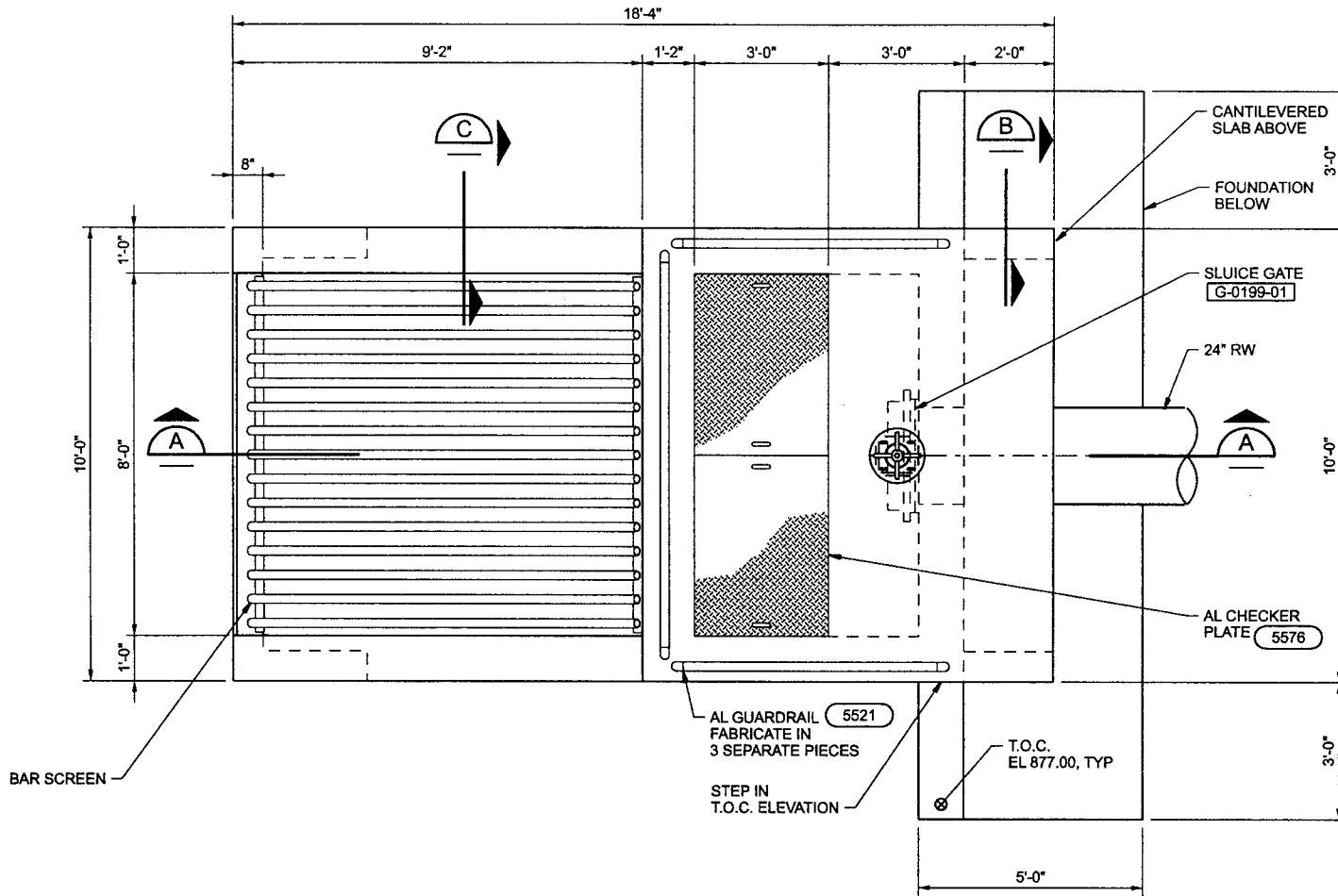
SHEET	X
DWG	20-C-2
DATE	JUNE 2005
PROJ	177447

FILENAME: 177447_pk20c102.dwg

PLOT DATE: 21-JUN-2005

PLOT TIME: 07:40:58

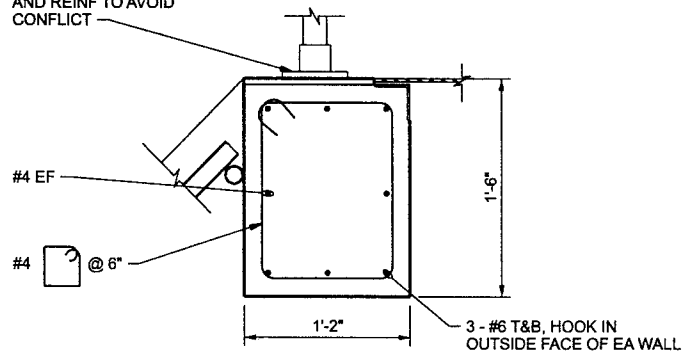
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LABETTE CREEK INTAKE PLAN

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 ROBILLARD
S. PATTERSON
DR C. SINCLAIR
CHK D. YEARSLEY
D. WAGNER
APVD L. ELLIS

NO. DATE

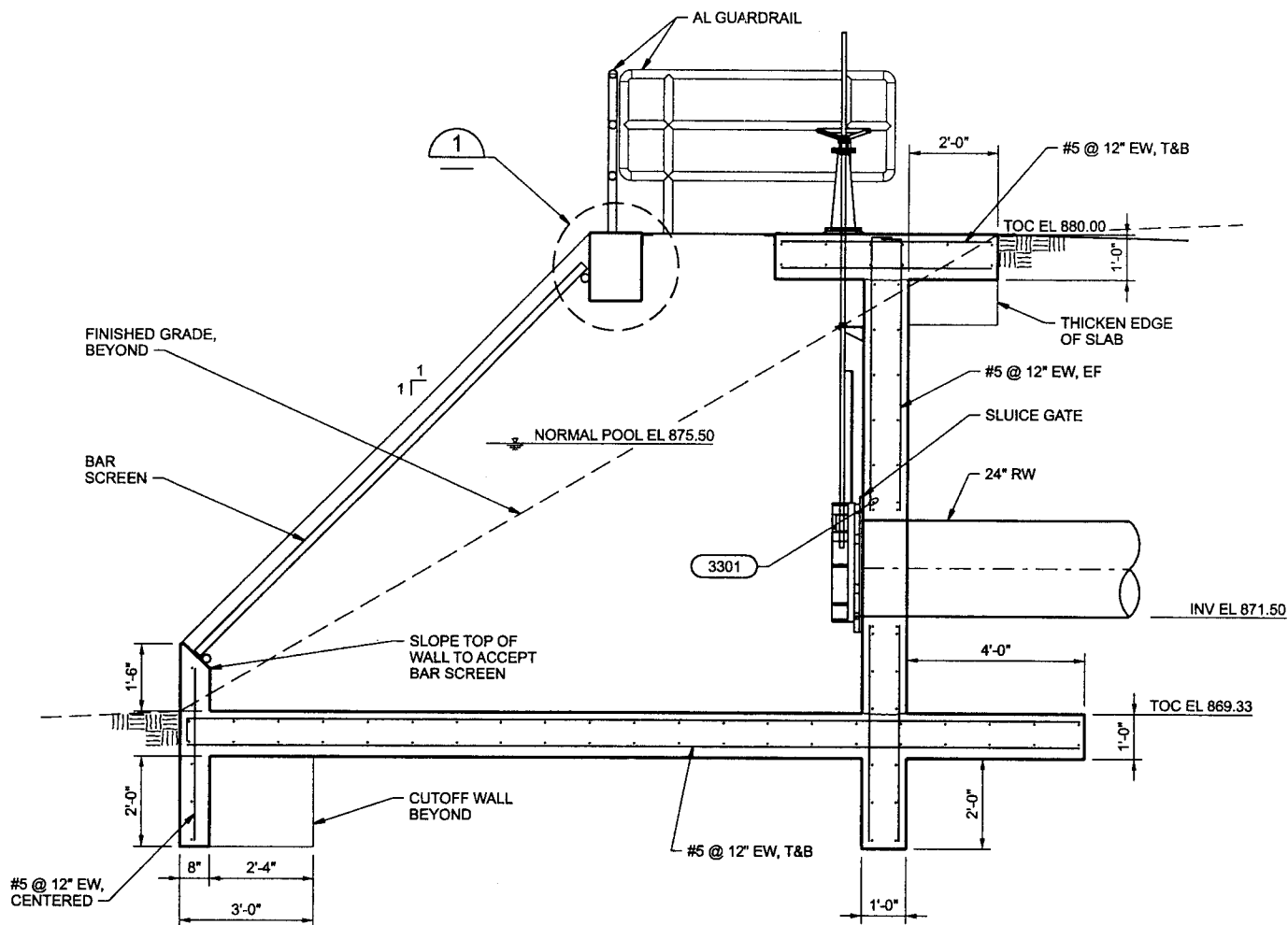
REVISION

BY APVD

VERIFY SCALE

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

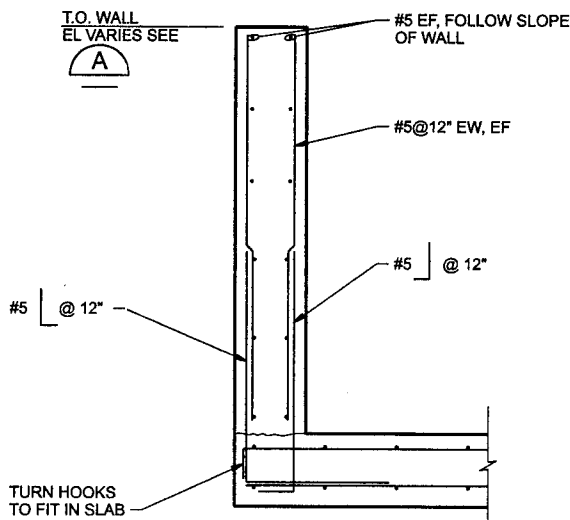
CH



SECTION A

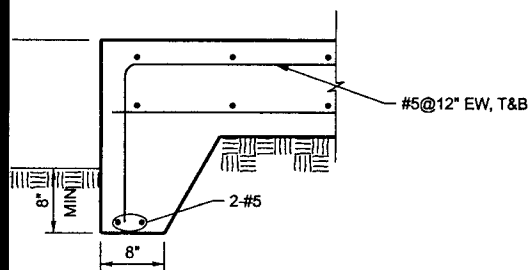
1/2"=1'-0"

T.O. WALL
EL VARIES SEE
A



SECTION B

1"=1'-0"



SECTION C

1"=1'-0"

TURN HOOKS
TO FIT IN SLAB

2MHILL

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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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.)

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