



November 13, 2015

RE: Pond Construction – See Design  
SE/4 Sec. 36-16N-6WIM (less 3.5 acres sold)  
Lease #101120, Kingfisher County OK

Dear Vendor,

A Soil Conservation Project Request/Bid Solicitation Form is enclosed for the above-referenced project located on Commissioners of the Land Office property. All bids received will be evaluated on a “**Lowest Responsible**” bid. Bids must be returned to the office in Oklahoma City on or before **December 17, 2015 by 2:00 p.m.**, to be considered for this project. Bids received after the time and date indicated or incomplete bid forms will not be considered.

If you are interested in being considered for this project, complete the enclosed Project Request/Bid Solicitation Form. You must fill in the Units, Unit Price, Totals and Project Totals fields on the form. Incomplete forms will not be considered.

If you are selected as “Lowest Responsible” bidder; current general liability insurance information along with worker’s comp or insurance document showing an exemption from workers compensation will be required.

The project will be considered complete after the supervising Real Estate Management Specialist certifies the specifications of the enclosed bid have been met.

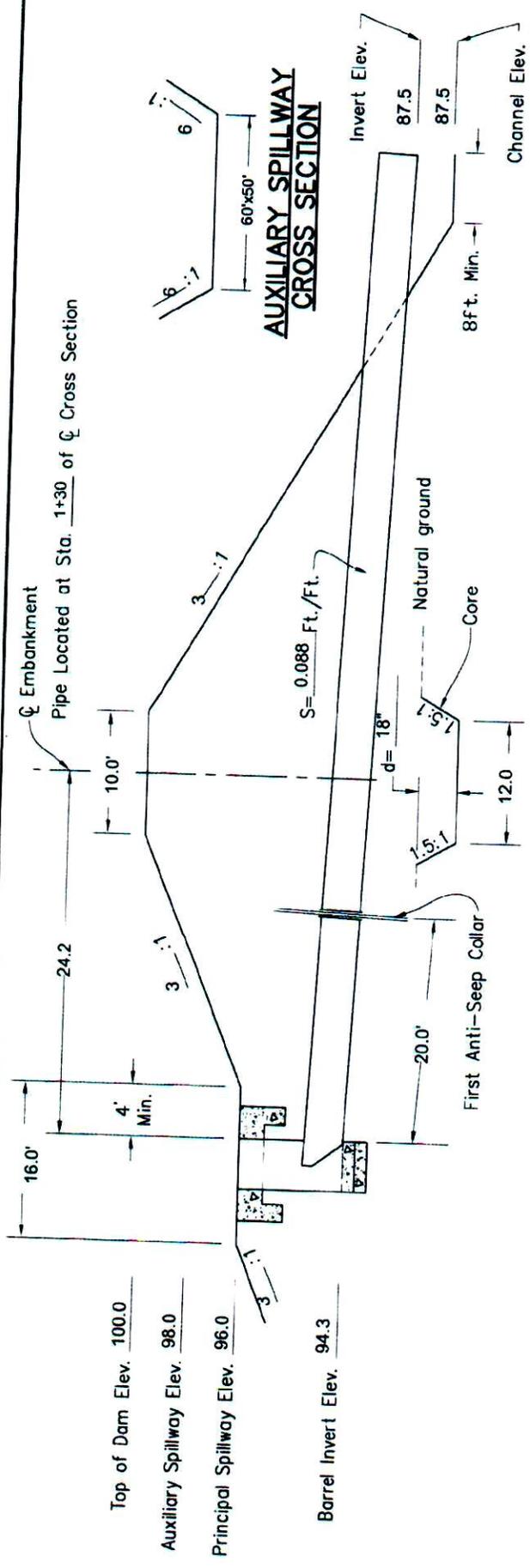
If you are not interested in being considered for this project, please return the form with “No Bid” written on it. This will indicate that you do not wish to bid at this time but may like to bid on future projects.

If you have any questions about this project contact me at 405-521-4149. Be sure to check our website at [www.clo.ok.gov](http://www.clo.ok.gov) for questions and answers that arise during the bidding of this project.

Sincerely,

Tonja DeFatta, CPO  
Real Estate Management Division  
[tonja.defatta@clo.ok.gov](mailto:tonja.defatta@clo.ok.gov)

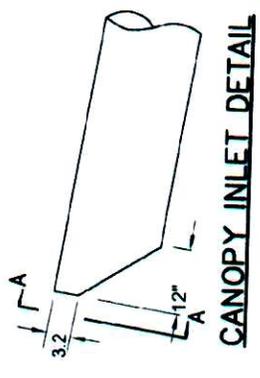
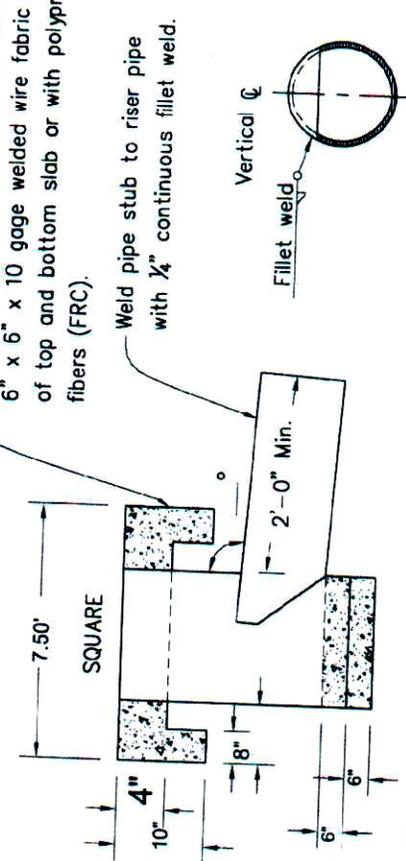




**CROSS SECTION OF EMBANKMENT ALONG  $\bar{C}$  OF PRINCIPAL SPILLWAY**

- NOTES:**
- For Trash Guard Detail see Ok-Dwg-No. 231a.
- QUANTITIES**
- |           |      |          |
|-----------|------|----------|
| Concrete  | 2.0  | Cu. Yds. |
| Earthwork | 2226 | Cu. Yds. |
- RISER**
- 2.2 Ft. of 32 NPS of 0.375 inch thick welded steel pipe.
- BARREL**
- 79 Ft. of 16 NPS of 0.22 inch thick welded steel pipe.
- 2 Antiseep Collars 5.5 Ft. x 5.5 Ft. spaced 20.0 Ft. apart. Minimum thickness is 1/4".

Concrete shall be reinforced with one layer of 6" x 6" x 10 gage welded wire fabric in center of top and bottom slab or with polypropylene fibers (FRC).

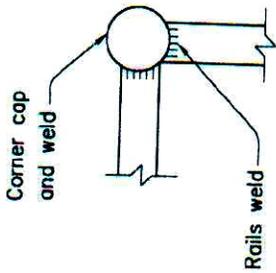


NOT TO SCALE

<b>CANOPY DROP INLET STRUCTURE WELDED STEEL PIPE</b>
<b>CLO SE 4 36-16N-6W Pond</b>
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE
Designed <u>A.T. Lowman</u> Date <u>11/09/2015</u>
Checked _____
Approved <u>A.T. Lowman</u>
Sheet _____ of _____

OK-DWG-No. 2025b (08-06)

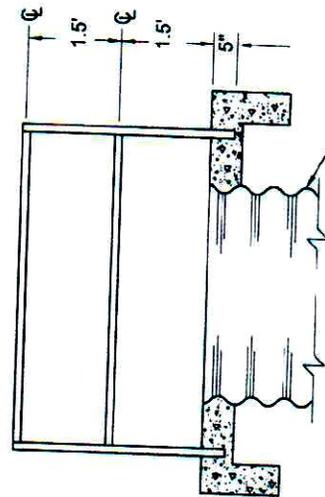
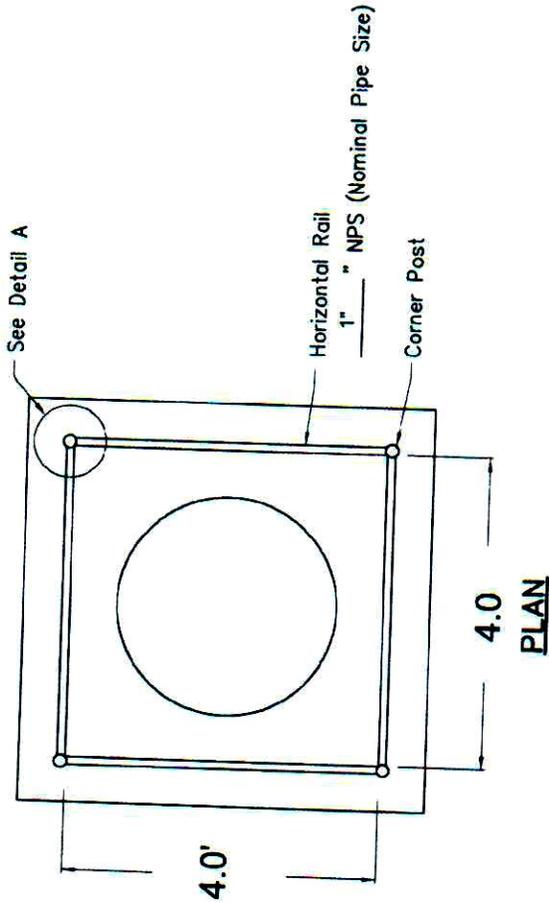




**DETAIL A**

**TRASH GUARD DETAILS**

1. Corner posts are 1½" NPS pipe (ASTM A53 Schedule 40).
2. Rails are 1" NPS pipe to 9.9' and 1¼" NPS for 10' and greater lengths (ASTM A53 Schedule 40).
3. Cap and solid weld tops of corner posts. Attach rails with continuous weld to corners.



See OK-DWG-No. \_\_\_\_\_ for details of riser.

**SECTION**

NOT TO SCALE

<b>TRASH GUARD FOR CANOPY DROP INLET</b>	
<b>CLO SE 4 36-16N-6W Pond</b>	
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	
Designed <u>A.T. Lowman</u>	11/09/2015
Checked _____	_____
Approved <u>[Signature]</u>	11/2/15
Sheet _____ of _____	

**Design Worksheet**  
**Canopy Drop Inlet Structure**

Cooperator: Oklahoma state CLO Legal Description: SE 36-16N-6W  
 Field Office: KINGFISHER County: Kingfisher Practice #      Pond       
 Designed By: A.T. Lowman Date: 11/6/2015  
 Approved By: A. T. Lowman Date:     

**Input Data**

Type of Pipe = Smooth Steel Pipe  
 Top of Dam Width = 10 ft  
 Upstream Slope = 3 :1  
 Downstream Slope = 3 :1  
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 Top of Dam Elev = 100.0  
 Aux. Spillway Elev = 98.0  
 Headwater Elev = 98.0  
 Riser Elev = 96.0  
 Low CL Elev = 88.0  
 Outlet Elev = 87.5  
 Tailwater Elev =  
 -----  
 Barrel Diameter = 16 in  
 Riser Diameter = 32 in 32 in. Min.  
 Riser Height = 1.7 ft 1.7 ft. Min.  
 Change Pipe Length? No  
 Pipe Length = 79.0 ft  
 Shrinkage = 10 %  
 Outlet Extension = 8 ft

**Output Data**

Discharge = 17.1 cfs  
 "n" Value = 0.015  
 Pipe Length = 78.5 ft  
 Pipe Slope = 0.088 ft/ft of Pipe  
 Pipe Stub Angle = 95.0 degrees  
 Canopy Dimensions  
 W = 3.2 in.  
 L = 12 in.  
 Total Riser Height = 2.2 ft  
 Saturated Pipe Length = 46.8 ft  
 Anti-Seep Collars Required = 2 No.  
 CL Dam to Riser Distance = 24.2 ft  
 Barrel Invert Elevation = 94.3  
 Tailwater Elevation Used = 88.2

**Messages / Warnings**

-- Full pipe flow in barrel

Notes: \_\_\_\_\_





**UNITED STATES DEPARTMENT OF AGRICULTURE  
NATURAL RESOURCES CONSERVATION SERVICE  
KINGFISHER, OKLAHOMA**

**OPERATION AND MAINTENANCE PLAN  
POND OR DAM**

Sponsor/Land user: Commissioners of the Land Office Date: 11-09-2015

Address: 120 N. Robinson, suite 1000w  
OKC, Oklahoma 73102

Legal description of practice location: SEC SE 36 T 16N R 6W

A properly operated and maintained water impoundment structure is an asset to your farm. This structure was designed and installed to entrap and provide storage of runoff water for beneficial use. The estimated life span of this installation is at least 10 years. The life of this installation can be assured and usually increased by developing and carrying out a good operation and maintenance program.

This practice will require you to perform periodic operation to maintain satisfactory performance. Here are some recommendations to help you develop a good operation and maintenance program.

**GENERAL RECOMMENDATIONS**

- Periodically inspect the spillways and control gates for proper functioning for their ability to maintain the water level to design elevations.
- Maintain vigorous growth of desirable vegetative coverings. This includes reseeding, fertilization, and controlled application of herbicides when necessary. Periodic mowing may also be needed to control height.
- When fences are installed, they shall be maintained to prevent unauthorized or livestock entry and livestock travel on the dam area
- Remove debris that may accumulate at the pond and immediately upstream or downstream from the pond.
- Immediately repair any vandalism, vehicular, or livestock damage to any earthfills, spillways, outlets or other appurtenances.

- Make sure all structure drains are functional and soil is not being transported through the drainage system. Repair if not functioning. The screens and/or rodent guards shall also be kept in place.
- Eradicate or otherwise remove all rodents or burrowing animals and repair any damage caused by their activity.
- Remove woody vegetation from embankments.
- Determine and eliminate causes of settlement or cracks in the earthen sections and repair damage.

### **SPECIFIC RECOMMENDATIONS FOR YOUR INSTALLATION**

Keep this O & M sheet and all other copies of designs in your folder.

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PLEASE CALL OKIE 1-call system 2 to 10 days before you dig. 1-800-522-6543 or 811

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Notify the Kingfisher NRCS office @ (405) 375-3200 ext. 3 Read the other O & M sheets if any

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A dam is considered a ½ an acre of vegetation after sprigging or mulch sodding place 50 lbs. of 40-40-40 or equivalent to of fertilizer after vegetating.

NRCS address is 1600 south 13<sup>th</sup> street Kingfisher, Oklahoma 73750. Please notify the office and make appointment before driving into Kingfisher; (405) 375-3200 ext. 3 so you do not have to come back again.

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If you should need technical assistance please call ahead, the technician is about two weeks behind. (405) 375-3200 ext. 117

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CONTACT YOUR LOCAL NATURAL RESOURCES CONSERVATION SERVICE OFFICE FOR ANY ADDITIONAL TECHNICAL ASSISTANCE YOU MIGHT NEED FOR IMPLEMENTATION OF THIS OPERATION AND MAINTENANCE PLAN FOR YOUR STRUCTURE. 405-375-3200 ext. 3