



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Division of Water Resources

William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243

1-888-891-8332 (TDEC)

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Permit

OFFICIAL STATE USE ONLY | Site #: | Permit #: |

Section 1. Applicant Information (individual responsible for site, signs certification below)

Applicant Name: Scott Canada
Company: McCarthy Building Companies | Signatory's Title or Position: Vice President
Mailing Address: 6225 N. 24th Street, Suite 200 | City: Phoenix | State: AZ | Zip: 85016
Phone: 480-449-4757 | Fax: | E-mail:

Section 2. Alternate Contact/Consultant Information (a consultant is not required)

Alternate Contact Name: Chris Triplett
Company: Barge Waggoner Sumner & Cannon | Title or Position: Project Manager
Mailing Address: 60 Germantown Ct., Suite 100 | City: Cordova | State: TN | Zip: 38018
Phone: 901-244-5512 | Fax: 901-755-7844 | E-mail: chris.triplett@bwsc.net

Section 3. Fee (check appropriate box and submit requisite fee with application)

No Fee Submitted | Fee Submitted | Application | Amount Submitted: \$ 500.00
Current fee schedules for Aquatic Resource Alteration Permit processing may be found at the Division of Water Resources webpage at http://www.tn.gov/environment/permits/arap.shtml or by calling (615) 532-0625. Make checks payable to "Treasurer, State of Tennessee".

Section 4. Project Details (fill in information and check appropriate boxes)

Site or Project Name: Providence Solar Farm | Nearest City, Town or Major Landmark: Selmer, TN
Street Address or Location: SE Quadrant of TN Hwy. 70 and Providence Road
County(ies): Madison | MS4 Jurisdiction: N/A | Latitude (dd.ddd): 35.5800 | Longitude (dd.ddd): 89.0547
Resource Proposed for Alteration: [X] Stream [ ] Wetland [ ] Reservoir
Name of Water Resource: Tributary to Panther Creek
Brief Project Description (a more detailed description is required under Section 8):
Outfalls from two sedimentation basins.
Does the proposed activity require approval from the U.S. Army Corps of Engineers, the Tennessee Valley Authority, or any other federal, state, or local government agency? [ ] Yes [X] No
If Yes, provide the permit reference numbers:
Is the proposed activity associated with a larger common plan of development? [ ] Yes [X] No
If Yes, submit site plans and identify the location and overall scope of the common plan of development. Plans attached? [ ] Yes [X] No
If applicable, indicate any other federal, state, or local permit authorizations that the overall project site (common plan of development) has obtained in the past (i.e. construction general permit coverage and/or other ARAPs):

Section 5. Project Schedule (fill in information and check appropriate boxes)

Start date: June, 2016 | Estimated end date: September, 2016
Is any portion of the activity complete now? [ ] Yes [X] No If yes, describe the extent of the completed portion:

## Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Permit

*The required information in Sections 6-11 must be submitted on a separate sheet(s) and submitted in the same numbered format as presented below. If any question is not applicable, state the reason why it is not applicable.*

Section 6. Project Description		Attached	
		Yes	No
6.1	A narrative description of the scope of the project	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.2	USGS topographic map indicating the exact location of the project ( <i>can be a photographic copy</i> )	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.3	Photographs of the resource(s) proposed for alteration with location description ( <i>photo locations should be noted on map</i> )	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.4	A narrative description of the <b>existing</b> stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.5	A narrative description of the <b>proposed</b> stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.6	In the case of wetlands, include a wetland delineation with delineation forms and site map denoting location of data points	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.7	A copy of all hydrologic or jurisdictional determination documents issued for water resources on the project site	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Section 7. Project Rationale	Attached	
	Yes	No
Describe the need for the proposed activity, including, but not limited to, the purpose, alternatives considered, and what will be done to avoid or minimize impacts to streams or wetlands.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Section 8. Technical Information		Attached	
		Yes	No
8.1	Detailed plans, specifications, blueprints, or legible sketches of present site conditions and the proposed activity. Plans must be 8.5.x 11 inches. Additional larger plans may also be submitted to aid in application review. The detailed plans should be superimposed on existing and new conditions ( <i>e.g., stream cross sections where road crossings are proposed</i> )	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.2	For both the proposed activity and compensatory mitigation, provide a discussion regarding the sequencing of events and construction methods	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.3	Depiction and narrative on the location and type of erosion prevention and sediment control (EPSC) measures for the proposed alterations	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Section 9. Water Resources Degradation (degree of proposed impact)** *Note that in most cases, activities that exceed the scope of the General Permit limitations are considered greater than de minimis degradation to water quality.*

My activity, as proposed:

- a.  Will not cause measurable degradation to water quality
- b.  Will only cause de minimis degradation to water quality
- c.  Will cause more than de minimis degradation to water quality (*Complete additional sections 9-11*)
- d.  Unsure/need more information

*For information and guidance on the definition of de minimis and degradation, refer to the Antidegradation Statement in Chapter 0400-40-03-.06 of the Tennessee Water Quality Criteria Rule: <https://www.tn.gov/sos/rules/0400/0400-40/0400-40-03.20131216.pdf>. For more information on specifics on what General Permits can cover, refer to the Natural Resources Unit webpage at <http://www.tn.gov/environment/permits/arap.shtml>*

*If you checked "c." above in Section 9, complete the following 2 sections, 10-11.*

N/A

Section 10. Detailed Alternative Analysis		Attached	
		Yes	No
10.1	Analyze all reasonable alternatives and describe the level of degradation caused by each of the feasible alternatives	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10.2	Discuss the social and economic consequences of each alternative	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10.3	Demonstrate that the degradation associated with the preferred alternative will not violate water quality criteria for uses designated in the receiving waters, and is necessary to accommodate important economic and social development in the area	<input checked="" type="checkbox"/>	<input type="checkbox"/>

## Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Permit

Section 11. Compensatory Mitigation		N/A		Attached	
		Yes	No		
11.1	A detailed discussion of the proposed compensatory mitigation	<input type="checkbox"/>	<input type="checkbox"/>		
11.2	Describe how the compensatory mitigation would result in no net loss of resource value	<input type="checkbox"/>	<input type="checkbox"/>		
11.3	Provide a detailed monitoring plan for the compensatory mitigation site	<input type="checkbox"/>	<input type="checkbox"/>		
11.4	Describe the long-term protection measures for the compensatory mitigation site (e.g., deed restrictions, conservation easement)	<input type="checkbox"/>	<input type="checkbox"/>		

### Certification and Signature

An application submitted by a corporation must be signed by a principal executive officer, from a partnership or proprietorship, by the partner or proprietor respectively; from a municipal, state, federal or other public agency or facility, the application must be signed by either a principal executive officer, ranking elected official, or other duly authorized employee.

*"I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury."*

Scott Canada	Vice President		4/25/2016
Printed Name	Official Title	Signature	Date

Submitting the form and obtaining more information Note that this form must be signed by the principal executive officer, partner or proprietor, or a ranking elected official in the case of a municipality, for details see **Certification and Signature** statement above. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit the completed ARAP Application form (keep a copy for your records) to the appropriate EFO for the county(ies) where the ARAP activity is located, addressed to **Attention: ARAP Processing**. You may also electronically submit the complete application and all associated attachments (e.g., maps, wetland delineations and narrative portions) to [water.permits@tn.gov](mailto:water.permits@tn.gov).

EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	8383 Wolf Lake Drive, Bartlett	38133-4119	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305-4316	Chattanooga	1301 Riverfront Pkwy., Ste. 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601



### OFFICIAL STATE USE ONLY

Received Date:	Permit Number:	Reviewer:	Field Office:
Fee amount paid:	T & E Aquatic Flora and Fauna:		Application Review:
Date:			<input type="checkbox"/> Deficient    Date: _____
Check #:	Exceptional TN Water:		<input type="checkbox"/> Complete    Date: _____

**From:** [Chris.Triplett@bwsc.net](mailto:Chris.Triplett@bwsc.net)  
**To:** [Jeanene Woodruff](#); [Brian Canada](#)  
**Cc:** [Brian Canada](#); [Amy Fritz](#); [NashvilleRegulatory@usace.army.mil](mailto:NashvilleRegulatory@usace.army.mil); [schandler@cityofjackson.net](mailto:schandler@cityofjackson.net); [Gregg Overstreet](#)  
**Subject:** RE: ARAP Permit #NRS16.125  
**Date:** Monday, June 06, 2016 1:01:00 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[ARAP.PDF](#)  
[ARAP1.pdf](#)

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Jeanene,

It was sent to the field office, with a check. Attached is a copy of the application.

P.S. We did get a question form the Corps on this one, but we answered the question back in Arpil.

Thanks,

**Chris Triplett, PE, PMP**

Vice President, Memphis Office Manager

**Barge Waggoner Sumner & Cannon, Inc.**

60 Germantown Court, Suite 100

Cordova, TN 38018

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[bargewaggoner.com](http://bargewaggoner.com) | [Twitter](#) | [LinkedIn](#)

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**From:** Jeanene Woodruff [mailto:Jeanene.Woodruff@tn.gov]

**Sent:** Monday, June 06, 2016 12:44 PM

**To:** Chris Triplett; Brian Canada

**Cc:** Brian Canada; Amy Fritz; NashvilleRegulatory@usace.army.mil; schandler@cityofjackson.net; Gregg Overstreet

**Subject:** RE: ARAP Permit #NRS16.125

Hi Chris! Hope all is well...

I can't find anything for a solar farm site off of Providence Road. Could you send me a copy of the application? Do you know if there was an application fee attached? Could it have gone to the field office?

I will keep looking though.



*Jeanene Woodruff*

William R. Snodgrass Tennessee Tower  
312 Rosa L. Parks Avenue, 11th Floor  
Nashville, Tennessee 37243  
Office: 615-532-0645  
Email: [Jeanene.Woodruff@tn.gov](mailto:Jeanene.Woodruff@tn.gov)

Please tell us how you think we're doing by completing this survey: [TDEC Customer Satisfaction Survey](#)

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**From:** [Chris.Triplett@bwsc.net](mailto:Chris.Triplett@bwsc.net) [mailto:[Chris.Triplett@bwsc.net](mailto:Chris.Triplett@bwsc.net)]  
**Sent:** Monday, June 06, 2016 11:49 AM  
**To:** Jeanene Woodruff; Brian Canada  
**Cc:** Brian Canada; Amy Fritz; [NashvilleRegulatory@usace.army.mil](mailto:NashvilleRegulatory@usace.army.mil); [schandler@cityofjackson.net](mailto:schandler@cityofjackson.net); Gregg Overstreet  
**Subject:** RE: ARAP Permit #NRS16.125

**\*\*\* This is an EXTERNAL email. Please exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email - STS-Security. \*\*\***

Jeanene,

BWSC also submitted an ARAP permit application for a solar farm site off of Providence Road in Denmark, TN. Do you know the status of that permit?

Thanks,

**Chris Triplett, PE, PMP**

Vice President, Memphis Office Manager

**Barge Waggoner Sumner & Cannon, Inc.**

60 Germantown Court, Suite 100

Cordova, TN 38018

901.244.5512 direct

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**From:** Jeanene Woodruff [mailto:[Jeanene.Woodruff@tn.gov](mailto:Jeanene.Woodruff@tn.gov)]  
**Sent:** Tuesday, May 31, 2016 8:36 AM  
**To:** Chris Triplett  
**Cc:** Brian Canada; Amy Fritz; [NashvilleRegulatory@usace.army.mil](mailto:NashvilleRegulatory@usace.army.mil); [schandler@cityofjackson.net](mailto:schandler@cityofjackson.net)  
**Subject:** ARAP Permit #NRS16.125  
**Importance:** High

Attached is the ARAP Permit #NRS16.125 issued on 05/25/2016. If you have any questions please contact Brian Canada at 615-532-0660 or by email at [Brian.Canada@tn.gov](mailto:Brian.Canada@tn.gov)

Note: This email was sent on behalf of Brian Canada. Original to follow by regular mail.



*Jeanene Woodruff*

William R. Snodgrass Tennessee Tower  
312 Rosa L. Parks Avenue, 11th Floor  
Nashville, Tennessee 37243  
Office: 615-532-0645  
Email: [Jeanene.Woodruff@tn.gov](mailto:Jeanene.Woodruff@tn.gov)

*Please tell us how you think we're doing by completing this survey: [TDEC Customer Satisfaction Survey](#)*

**ARAP PERMIT**  
**FOR**  
**TWO OUTFALLS FROM THE PROVIDENCE SOLAR FARM SITE**  
**MADISON COUNTY, TN**

**Prepared by:**

**Barge Waggoner Sumner & Cannon, Inc.**  
**60 Germantown Court, Suite 100**  
**Memphis, Tennessee 38018**

**File 36268-00**

## SECTION 6 PROJECT DESCRIPTION

### 6.1 DESCRIPTION OF THE PROJECT

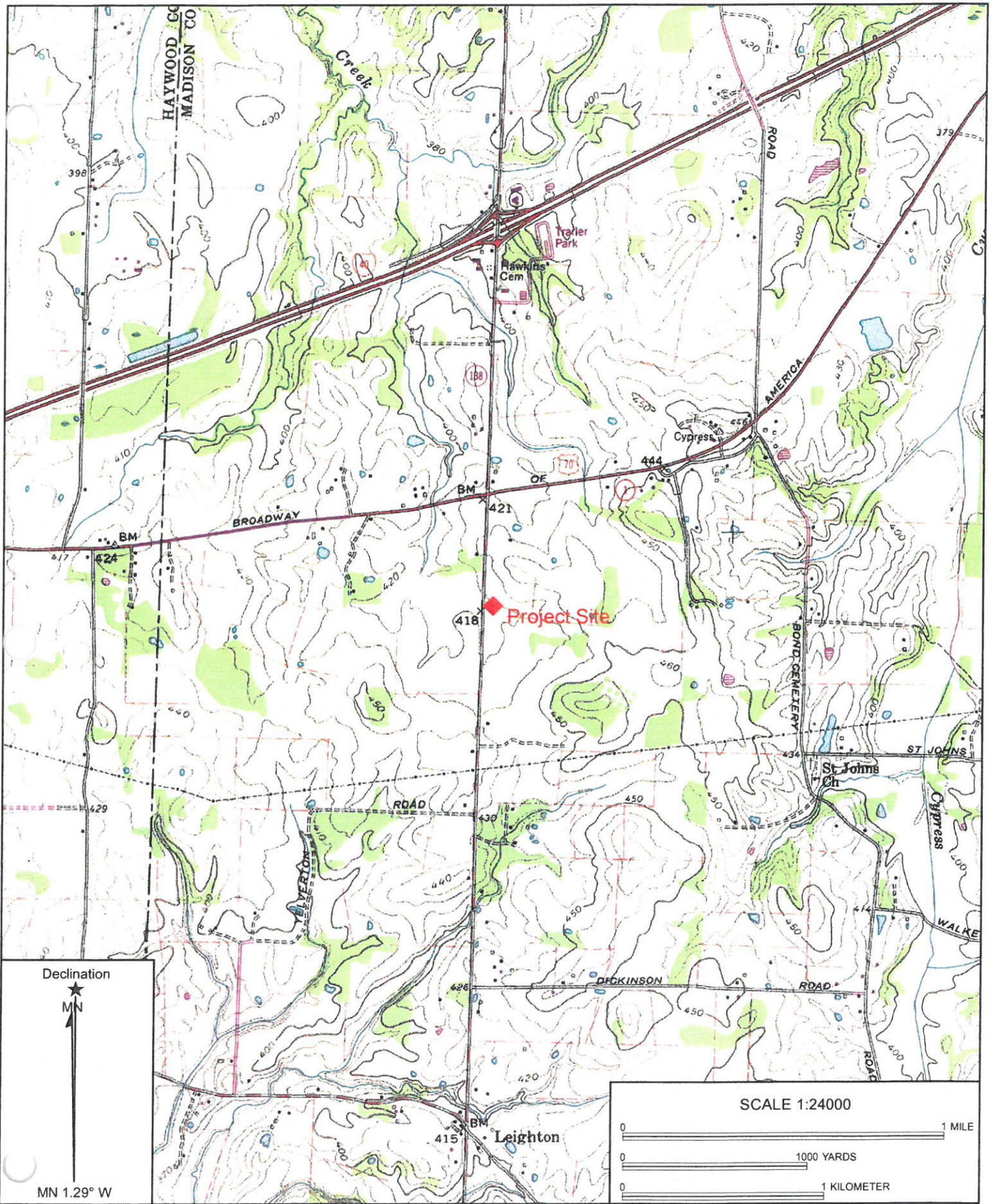
This project is construction two outfall ditches from sedimentation basins. The overall project is construction of a large solar farm. The sedimentation basins are part of the required erosion prevention and sediment control.

The two outfalls are basically at the same location, with one on the north side and one on the south side of the existing ditch.



6.2 USGS TOPOGRAPHIC MAP

See Attached



Name: DENMARK  
 Date: 04/11/16  
 Scale: 1 inch = 2,000 ft.

Location: 035° 34' 48.35" N 089° 03' 17.14" W

6.3 PHOTOGRAPHS

See Attached

Overhead  
View of  
Existing Ditch





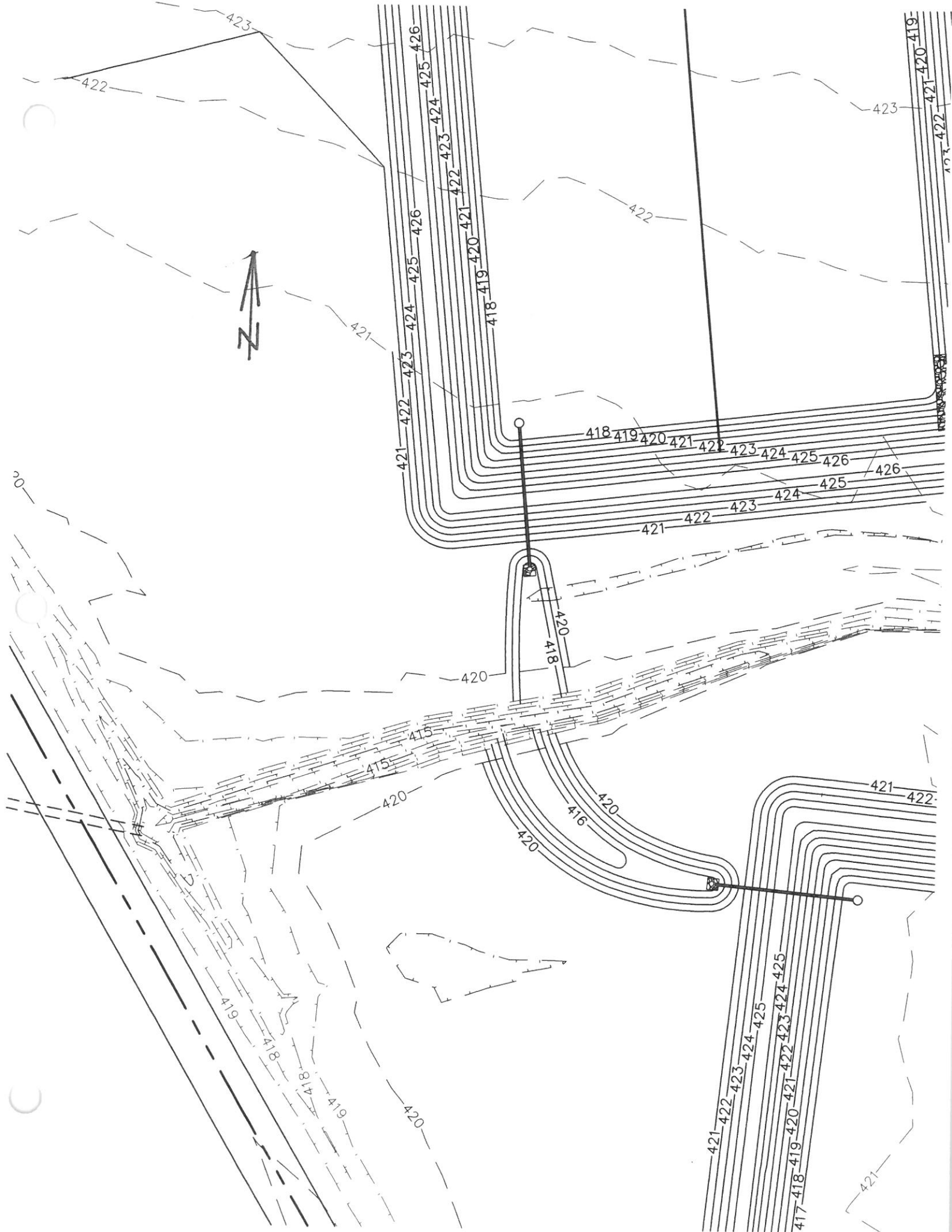
#### 6.4 DESCRIPTION OF EXISTING STREAM

The existing stream is about 4' deep with basically a flat bottom approximately 3' wide. Top of bank width is about 17:

Bottom of the ditch is heavy silt. The banks are heavily covered with weeds and brush.

## 6.5 DESCRIPTION OF PROPOSED STREAM

As shown on the following page, the outfall on the north side will tie about 1' below top of bank and the outfall on the south side will tie about 3' below the top of bank. Side slopes of the outfalls are 3:1.





## 6.6 WETLANDS

There are no wetlands associated with this project.

## 6.8 HYDROLOGIC OR JURISDICTIONAL DETERMINATION

There is no hydrologic or jurisdictional determination associated with this project.

## SECTION 7. PROJECT RATIONAL

Sedimentation basins are required by TDEC regulations because of the size of land disturbance. Sedimentation basins are naturally set at low points thus discharges from the bottoms of the sedimentation basins have to be at low points of the site. In this case, it will be into the stream just east of Providence Road.

## SECTION 8. TECHNICAL INFORMATION

### 8.1 PLANS

The following sheets, EPSC6 AND EPSC7, shows the plan view and grading for the sedimentation basins and outfalls.

### 8.2 SEQUENCE OF EVENTS AND CONSTRUCTION METHOD

1. Construction sedimentation basins.
2. Install Principle/Emergency Spillways and 18" discharge pipes.
3. Install rip rap at discharge of 18" discharge pipes.
4. Grade outfalls.
5. Seed and mulch disturbed area.

### 8.3 EROSION PREVENTION AND SEDIMENT CONTROL

Rip rap will be placed at the discharge of the 18" discharge pipes to prevent erosion and slow the velocity. All areas disturbed by grading of the outfalls will be grading of the outfalls will be seeded and mulched. An acceptable stand of grass will be established before there is any discharge from the sedimentation basins.