

## Information for File #2013-01950-WAB

**Applicant** U.S. Department of Agriculture Forest Service

**Corps Contact** Bill Baer

**Address** 4111 Technology Drive, Suite 295, Bemidji MN 56601

**E-Mail** William.a.baer@usace.army.mil

**Phone** 651-290-5338

**Primary County** Itasca

**Sec/Township/Range** S2, T146N, R26W

**Information Complete On** June 10, 2014

**Posting Expires On** July 20, 2014

**Authorization Type** LOP-10-R

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act identified in Regulatory Guidance Letter 07-01. We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are regulated by the Corps of Engineers under Section 404 of the Clean Water Act. Our jurisdictional review and final jurisdictional determination could result in modifications to the scope of the project's regulated waterbody/wetland impacts and compensatory mitigation requirements identified above. An approved jurisdictional determination will be made prior to reaching a permit decision, and will be posted on the St. Paul District web page at <http://www.mvp.usace.army.mil/>.

**Project Purpose:** The purpose of the project is to remove an impoundment structure in an effort to restore natural hydrology to a stream and wetland system within the Chippewa National Forest.

**Project Description:** The applicant proposes to remove an impoundment structure built across a natural stream and wetland system. The dam was constructed to create a waterfowl impoundment known as the Egg Lake Impoundment. The dam currently re-directs impounded water through an excavated overflow ditch. The inoperable dam operating structure will also be removed. A stream channel will be reconstructed where previously covered by the dam fill. The removed dam fill material would be used to plug the overflow/bypass ditch to a level one-half to two-thirds of the way up to the existing white cedar tree line; fill or partially fill the dam emergency spillway; and, placed as cover on the existing access roads. Plugging the man-made ditch and emergency

spillway would fill 0.46 acres of manmade aquatic resources. The channel downstream of the existing dam structure crosses Forest Road 2156. The culvert in Forest Road 2156 will be replaced to accommodate restored stream flows and aquatic organism passage.

**Name, Area and Types of waters (including wetlands) subject to loss:** The project would result in a total of 0.46 acres of permanent fill placed in the manmade excavated overflow diversion ditch and emergency spillway. Installation of the 72” diameter x 42’ long culvert will temporarily disturb the stream bed, but not result in a loss of waters.

**Alternatives considered:** The applicant considered a “do-nothing” alternative, which would not restore the floodplain wetland and stream.

**Compensatory mitigation:** The applicant has not proposed to compensate for the 0.46 acres of permanent impacts. However, the project would result in the restoration of approximately 49 acres of floodplain wetlands and restore flow to approximately 3.5 miles of stream channel.

**Drawings**      See attached.

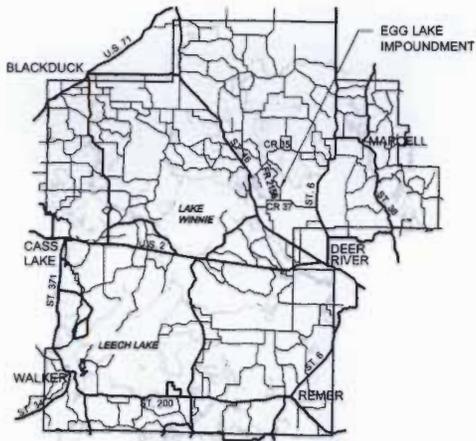
US Department of Agriculture  
Forest Service  
Region Nine  
FOREST DEVELOPMENT PROJECT

# EGG LAKE IMPOUNDMENT DECOMMISSIONING

Chippewa National Forest  
Itasca County  
Minnesota

## INDEX OF SHEETS

SHEET	SHEET TITLE
01	TITLE SHEET
02	GENERAL NOTES
03	OVERALL SITE PLAN
04	EXISTING IMPOUNDMENT SITE PLAN
05	FINAL IMPOUNDMENT SITE PLAN
06	DISPOSAL AND ROAD DECOMMISSIONING PLAN
07	IMPOUNDMENT SECTIONS
08	OUTLET STRUCTURE SITE PLAN
09	CULVERT REPLACEMENT SITE PLAN
10	CULVERT INSTALLATION DETAIL
11	SLOPE STABILIZATION DETAILS



PROJECT LOCATION MAP  
CHIPPEWA NATIONAL FOREST



PROJECT SITE MAP  
APPROX. 21 MILES NORTHWEST OF DEER RIVER, MN

*Jan Hill*  
DEER RIVER DISTRICT RANGER  
DATE 5/30/12

*John D. Hill*  
FOREST HYDROLOGIST  
DATE 3/17/12

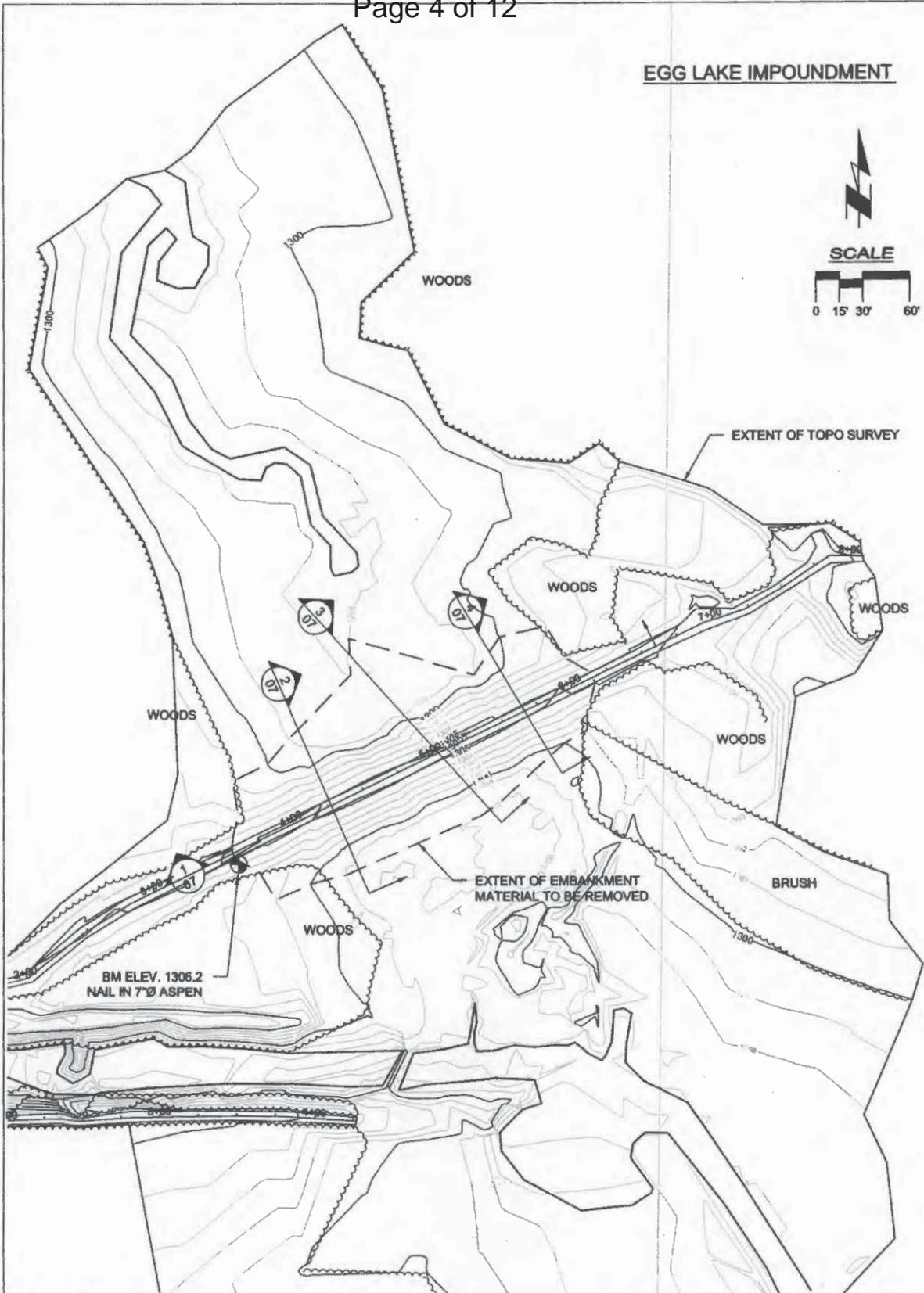
*Jan Hodgson*  
FOREST ENGINEER  
DATE 5/17/2012

CH 10426

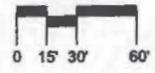




**EGG LAKE IMPOUNDMENT**



**SCALE**



<p><b>NOTES</b></p> <p>1. THE CONTRACTOR SHALL CUT AND REMOVE THE IMPOUNDMENT EMBANKMENT TO MATCH THE LINE AND GRADE SHOWN ON THE FINAL SITE PLAN. THE SPOIL MATERIAL SHALL BE PLACED IN THE DISPOSAL AREA(S) SPECIFIED AND GRADED TO MINIMIZE POOLING AND EROSION.</p> <p>2. EXCAVATION LIMITS WILL BE STAKED ONCE BY GOVERNMENT. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THOSE STAKES, STAKING ANY REQUIRED OFFSETS, AND CONDUCTING ALL FURTHER SURVEY WORK.</p>													
<p>U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE</p> <p>WESTERN REGION</p> <p>EGG LAKE IMPOUNDMENT DECOMMISSIONING CHIPPEWA NATIONAL FOREST ITASCA COUNTY</p>	<table border="1"> <tr> <th>No.</th> <th>Description</th> <th>Date</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	No.	Description	Date									
No.	Description	Date											
<p>Checked by: <b>D. DENNIS</b></p> <p>Drawn by: <b>10428</b></p> <p>Scale: <b>04 of 11</b></p>	<p>EGG LAKE IMPOUNDMENT EXISTING IMPOUNDMENT SITE PLAN</p>												

**EGG LAKE IMPOUNDMENT**

**ESTIMATED QUANTITIES\***

(APPROXIMATE)

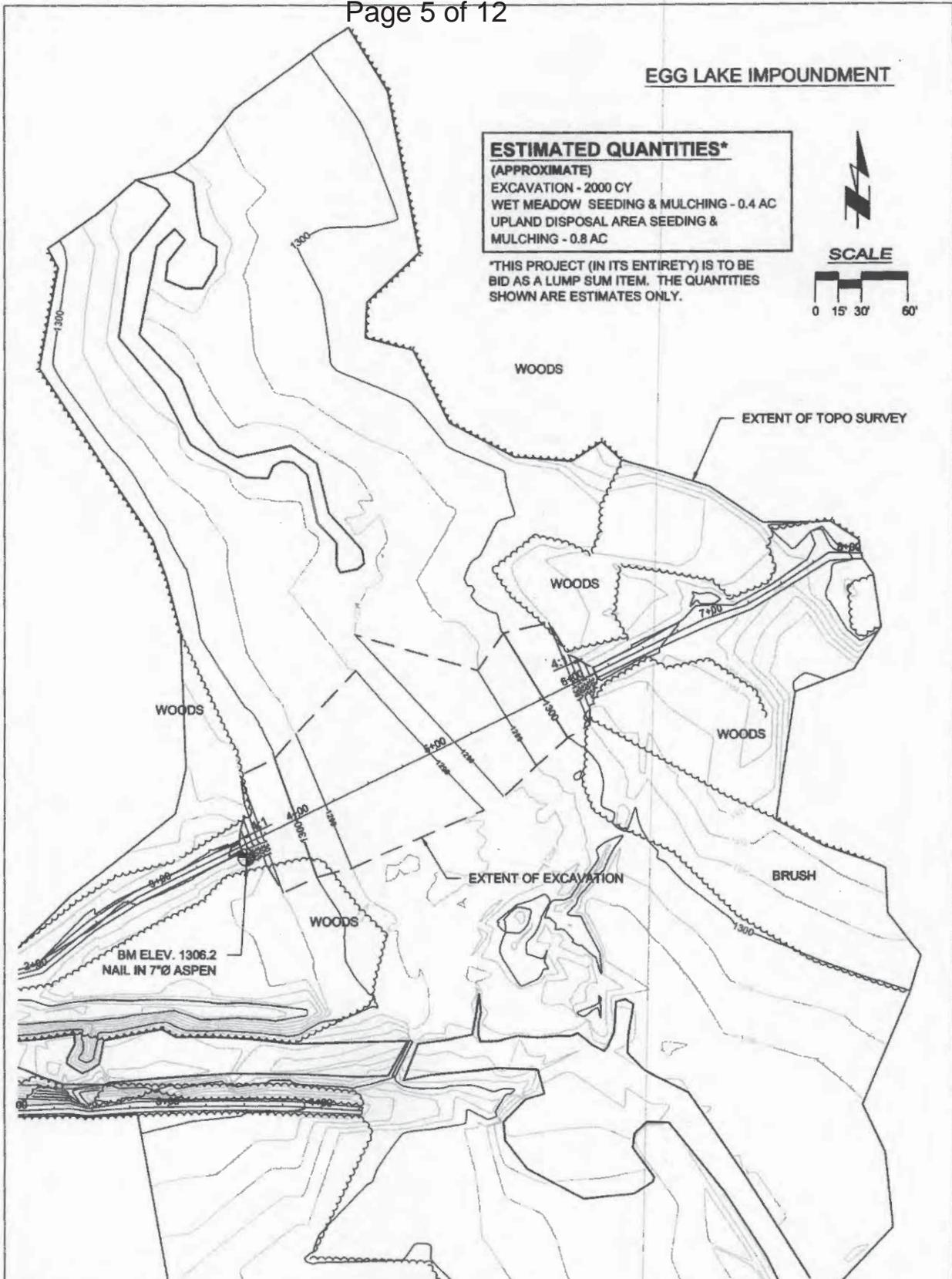
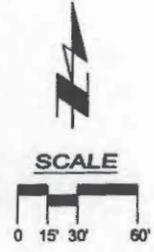
EXCAVATION - 2000 CY

WET MEADOW SEEDING & MULCHING - 0.4 AC

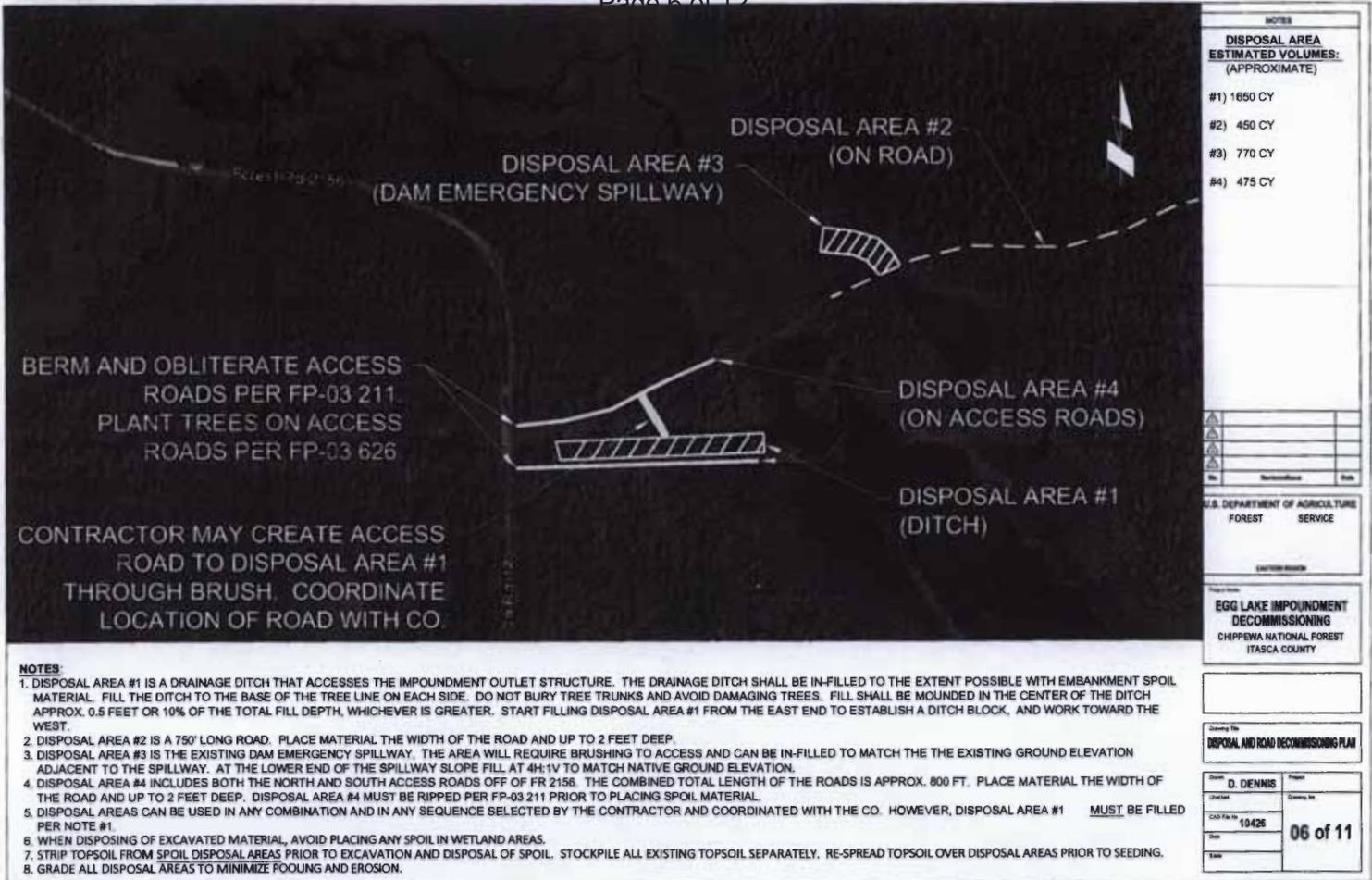
UPLAND DISPOSAL AREA SEEDING &

MULCHING - 0.8 AC

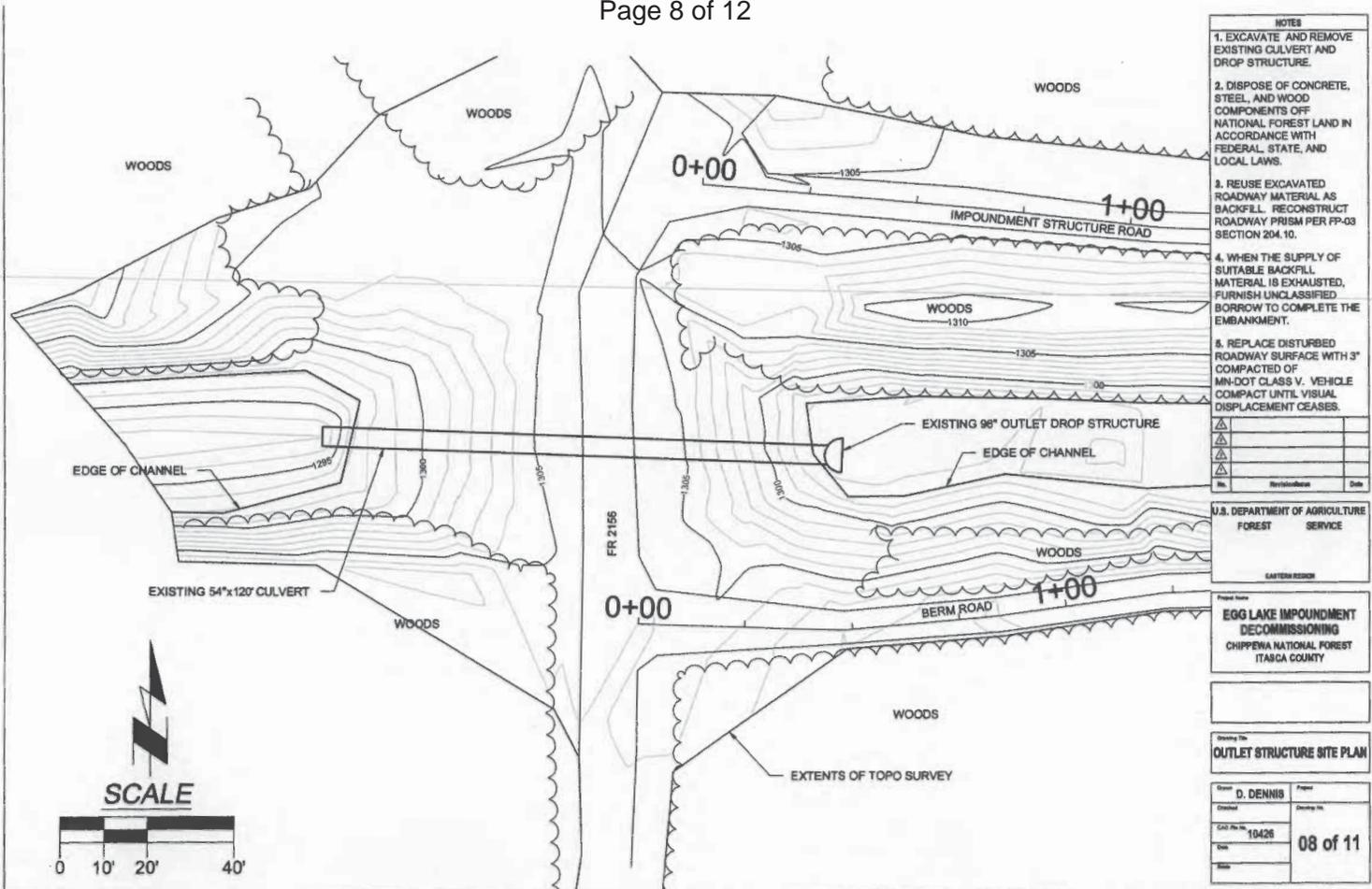
\*THIS PROJECT (IN ITS ENTIRETY) IS TO BE BID AS A LUMP SUM ITEM. THE QUANTITIES SHOWN ARE ESTIMATES ONLY.



<p>Project No. <b>FINAL IMPOUNDMENT SITE PLAN</b></p>	<p>Client <b>D. DENNIS</b></p>	<p>Contract No. <b>10428</b></p>	<p>Sheet No. <b>05 of 11</b></p>	<p>Project Name <b>EGG LAKE IMPOUNDMENT DECOMMISSIONING CHIPPENAW NATIONAL FOREST ITASCIA COUNTY</b></p>	<p>Agency <b>U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE</b></p>	<p>Region <b>EASTERN REGION</b></p>	<p>Notes</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;">No.</td> <td style="width: 10%;">Description</td> <td style="width: 5%;">Date</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	No.	Description	Date									
No.	Description	Date																	







**NOTES**

- EXCAVATE AND REMOVE EXISTING CULVERT AND DROP STRUCTURE.
- DISPOSE OF CONCRETE, STEEL, AND WOOD COMPONENTS OFF NATIONAL FOREST LAND IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LAWS.
- REUSE EXCAVATED ROADWAY MATERIAL AS BACKFILL. RECONSTRUCT ROADWAY PRISM PER FP-03 SECTION 204.10.
- WHEN THE SUPPLY OF SUITABLE BACKFILL MATERIAL IS EXHAUSTED, FURNISH UNCLASSIFIED BORROW TO COMPLETE THE EMBANKMENT.
- REPLACE DISTURBED ROADWAY SURFACE WITH 3" COMPACTED OF MIN-DOT CLASS V. VEHICLE DISPLACE UNTIL VISUAL DISPLACEMENT CEASES.

No.	Revisions	Date

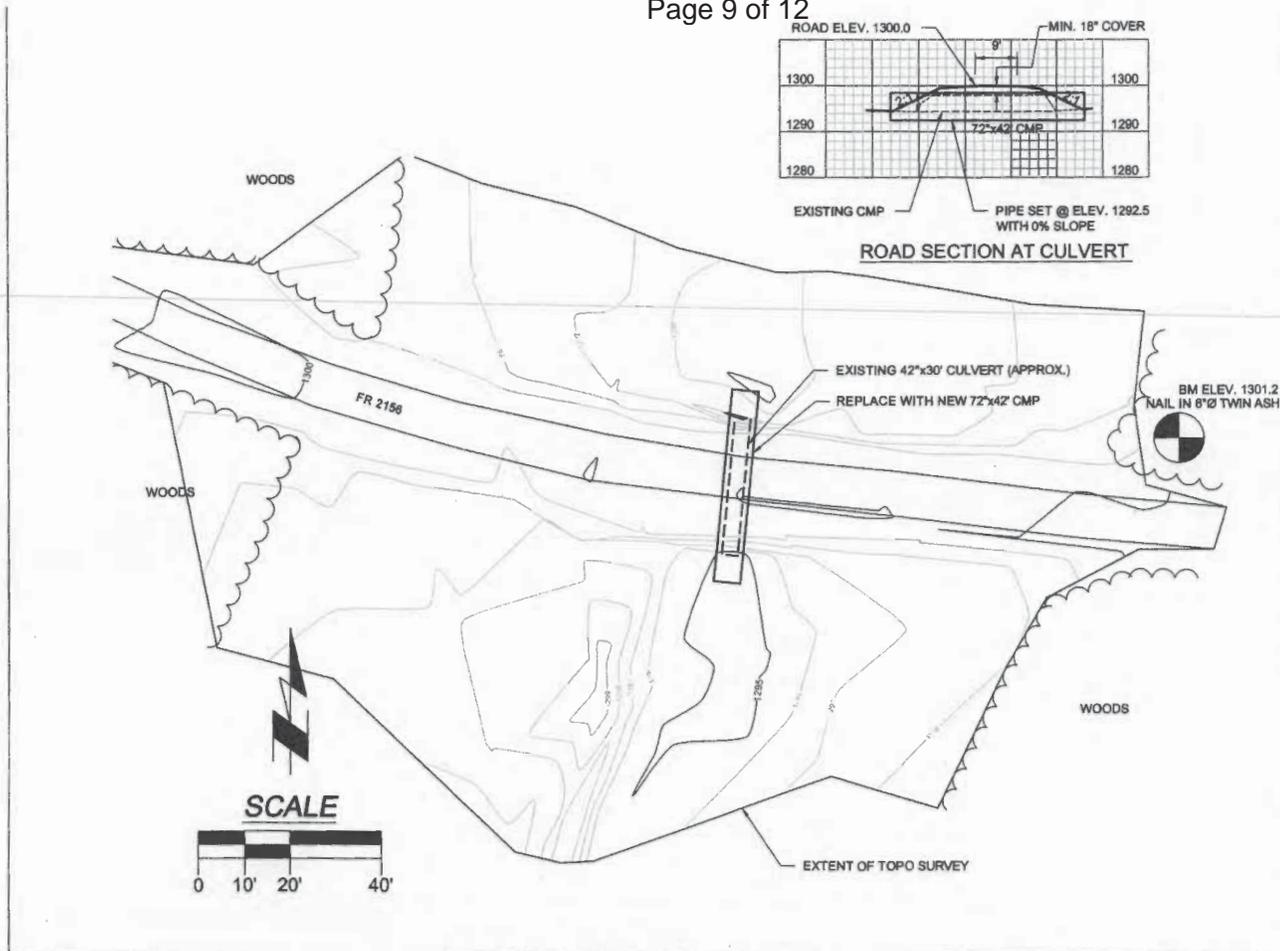
U.S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

SAFETY DESIGN

Project Name  
**EGG LAKE IMPOUNDMENT DECOMMISSIONING**  
CHIPPEWA NATIONAL FOREST  
ITASCA COUNTY

Drawing Title  
**OUTLET STRUCTURE SITE PLAN**

Drawn <b>D. DENNIS</b>	Project
Checked	Drawing No.
CAD File No. 10426	<b>08 of 11</b>
Date	
Scale	



**NOTES**

1. PROVIDE AND INSTALL 72x42 CMP.
2. PIPE SHALL BE 14 GA. ALUMINIZED STEEL TYPE 2 WITH EITHER 3"x1" OR 5"x1" CORRUGATIONS.
3. CULVERT END STAKING WILL BE DONE ONCE BY GOVERNMENT. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING TIES TO REESTABLISH CULVERT END POSITIONS.
4. INSTALL CULVERT PER PP-03 SECTION 802 AND CULVERT INSTALLATION DETAIL ON SHEET 10.
5. INSIDE OF PIPE TO BE LEFT EMPTY, WITH THE EXPECTATION THAT THE PIPE WILL FILL IN WITH NATURAL STREAM BED MATERIAL OVER TIME.
6. DISPOSE OF CULVERT COMPONENTS OFF NATIONAL FOREST LANDS IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LAWS.

No.	Revisions	Date

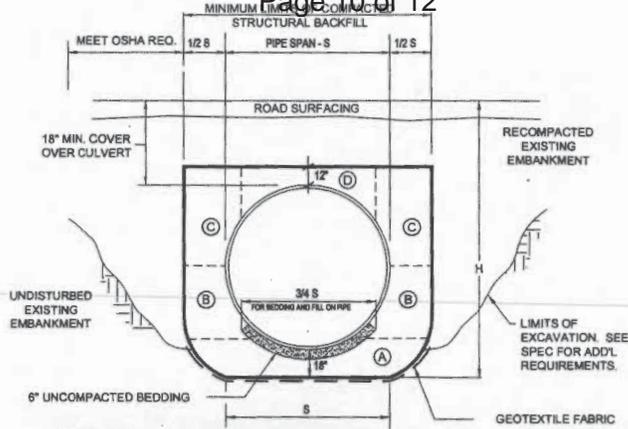
U.S. DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

SOUTHERN REGION

Project Name  
**EGG LAKE IMPOUNDMENT  
DECOMMISSIONING  
CHIPPEWA NATIONAL FOREST  
ITABCA COUNTY**

Drawing Title  
**CULVERT REPLACEMENT SITE PLAN**

Drawn <b>D. DENNIS</b>	Project
Checked	Drawing No.
CAD File No. <b>10426</b>	<b>09 of 11</b>
Scale	
Sheet	



MIN. LIMITS OF PIPE BACKFILL MATERIAL. SEE NOTE 1.

- (A) BELOW PIPE: PLACE AND COMPACT TO SPECIFIED DENSITY. PROVIDE GEOTEXTILE FABRIC BETWEEN GRANULAR BACKFILL AND SUBGRADE WHERE SUBGRADE IS UNSTABLE (MUCK). PLACE AND SHAPE BEDDING MATERIAL AS SHOWN - DO NOT COMPACT BEDDING.
- (B) CRITICAL BACKFILL ZONE: HAND PLACE AND TAMP BELOW SPRINGLINE. CAREFULLY COMPACT TO SPECIFIED DENSITY USING HAND-OPERATED EQUIPMENT.
- (C) SIDES OF PIPE: PLACE IN BALANCED LIFTS AND COMPACT AS REQUIRED.
- (D) TOP OF PIPE: PLACE AND COMPACT TO SPECIFIED DENSITY USING HAND-OPERATED EQUIPMENT.

**NOTES:**

1. WHERE HAND COMPACTION IS SPECIFIED, PLACE IN 4" LIFTS.
2. ALL OTHER PIPE BACKFILL TO BE PLACED IN A BALANCED FASHION IN 6" COMPACTED LIFTS, AND COMPACTED PER SPECIFICATIONS.
3. COMPLETE AND REGULAR MONITORING OF THE CMP SHAPE IS NECESSARY DURING ALL BACKFILLING OF THE STRUCTURE.
4. PREVENT EXCESSIVE DISTORTION OF SHAPE AS NECESSARY BY VARYING COMPACTION METHODS AND EQUIPMENT.
5. GOVERNMENT REPRESENTATIVE MUST BE PRESENT DURING BACKFILL ACTIVITIES. COORDINATE TIMING OF WORK WITH COR.

CULVERT INSTALLATION DETAIL  
(N.T.S)

NOTES	
#	Revision/Issue
U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE	
SOUTH REGION	
Project Name	
<b>EGG LAKE IMPOUNDMENT DECOMMISSIONING</b>	
CHIPPEWA NATIONAL FOREST ITASCA COUNTY	
Drawing Title	
<b>CULVERT INSTALLATION DETAIL</b>	
Drawn <b>D. DENNIS</b>	Project
Checked	Quantity
Cap File No <b>10426</b>	<b>10 of 11</b>
Date	
Scale	



2013-01950-WAB

Page 12 of 12

