

IOWA DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION DOCUMENTS

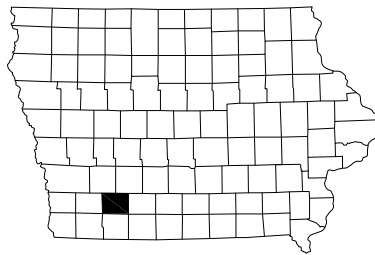
FOR

LAKE ICARIA

SHORELINE ARMORING

ADAMS COUNTY, IOWA

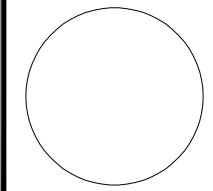
PROJECT #18-04-02-01



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CONSULTANT:



IOWA DEPARTMENT OF
NATURAL RESOURCES

ENGINEERING SERVICES - WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



COVER SHEET

SHORELINE ARMORING FOR:
LAKE ICARIA

ADAM'S COUNTY, IA

DIRECTORY

PROJECT MANAGER		CONSTRUCTION INSPECTOR	
COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES
ADDRESS	502 EAST 9TH STREET	ADDRESS	502 EAST 9TH STREET
CITY, STATE, ZIP	DES MOINES, IA 50319	CITY, STATE, ZIP	DES MOINES, IA 50319
CONTACT	EMMANUEL SANG	CONTACT	MARK JOHNSON
TELEPHONE	515-321-7005	TELEPHONE	515-250-3713
FAX		FAX	
EMAIL	Emmanuel.Sang@dnr.iowa.gov	EMAIL	Mark.Johnson@dnr.iowa.gov

PROJECT DESCRIPTION

THIS PROJECT INVOLVES ARMORING THE SHORELINE AND OTHER INCIDENTAL WORK AS REQUIRED BY D.N.R. CONSTRUCTION INSPECTOR IN ADAM'S COUNTY, IOWA.

AUTHORIZATION TO BID

AUTHORIZATION - PARKS | WILDLIFE | FISHERIES | LAW ENFORCEMENT | FORESTRY

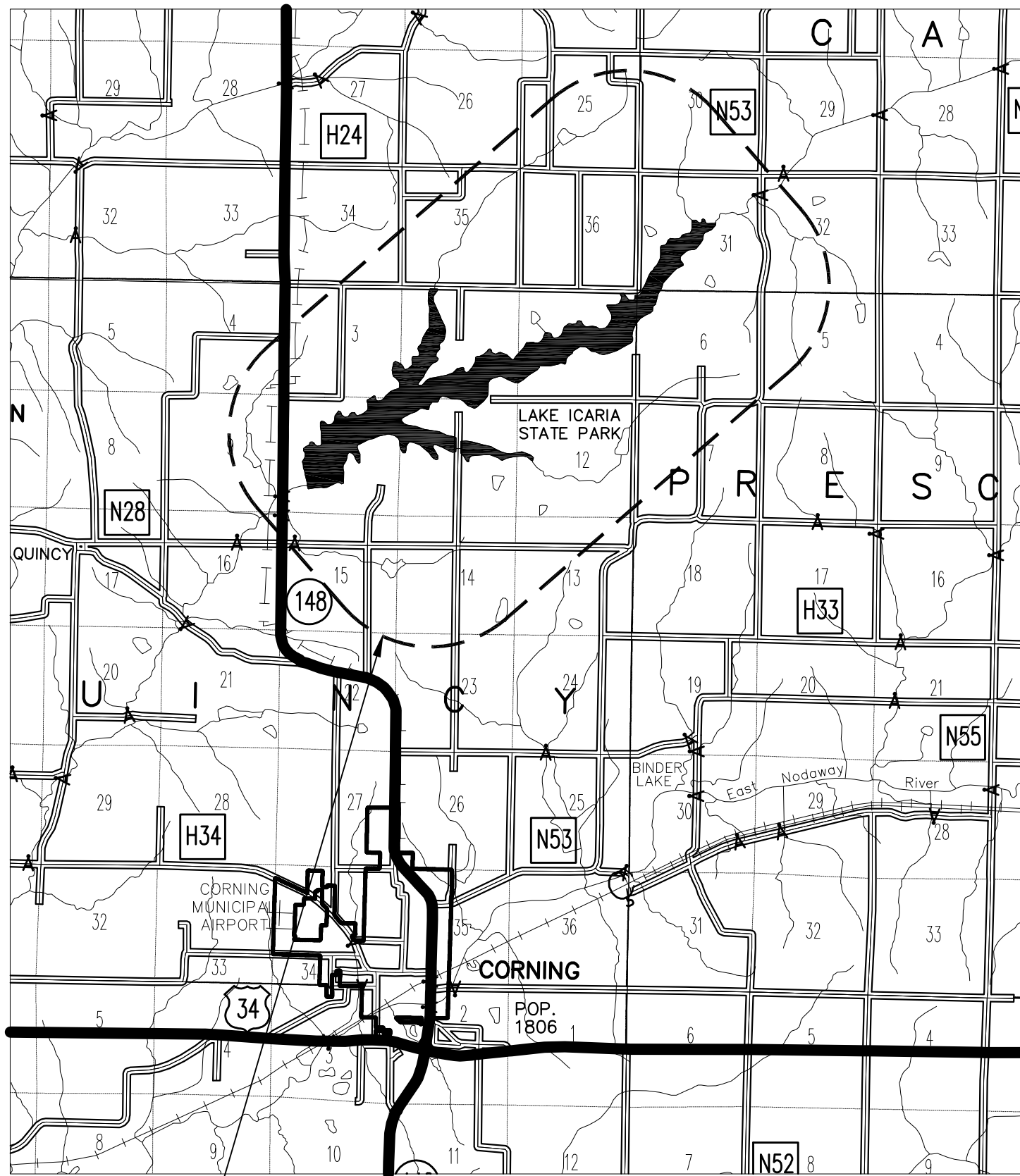
ENGINEERING BUREAU CHIEF _____ DATE _____

NO.	BY DATE	REVISION
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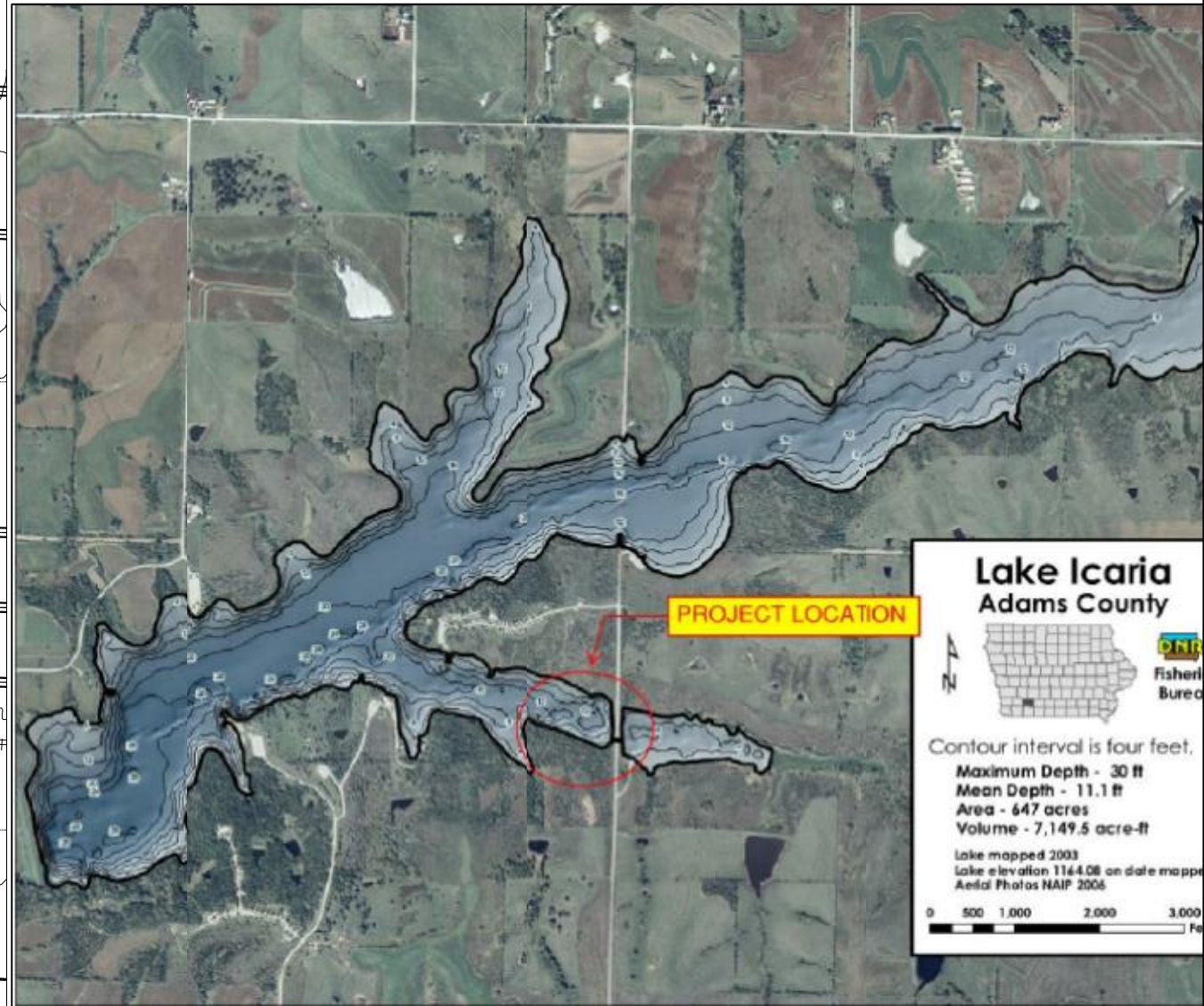
DRWN BY: E.S. PROJECT NUMBER: 18-04-02-01

CHK'D BY: M.J. DATE: OCT/2017

SHEET No: **1**



PROJECT LOCATION
T72N R34W



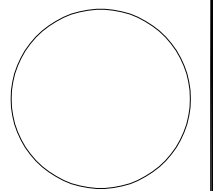
Lake Icaria
Adams County

Contour interval is four feet.
 Maximum Depth - 30 ft
 Mean Depth - 11.1 ft
 Area - 647 acres
 Volume - 7,149.5 acre-ft

Lake mapped 2003
 Lake elevation 1144.08 on date mapped
 Aerial Photos NAIP 2006

0 500 1,000 2,000 3,000 Feet

CONSULTANT:



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502 E. 9TH ST., DES MOINES, IA 50319-0034



PROJECT LOCATION

SHORELINE ARMORING FOR:

LAKE ICARIA

ADAMS COUNTY, IA

NO.	BY	DATE	REVISION

DRAWN BY: PROJECT NUMBER:

E.S. 18-04-02-01

CHK'D BY: DATE:

M.J. OCT/2017

SHEET No:

ESTIMATED PROJECT QUANTITIES

ITEM	DESCRIPTION	UNIT	TOTAL
1	MOBILIZATION	L.S	1
2	CLASS 'E' REVETMENT	TONS	2,500
3	SEEDING, FERTILIZING & MULCHING	L.S	1
4			

ESTIMATED REFERENCE INFORMATION

ITEM	DESCRIPTION
2	CLASS 'E' REVETMENT - BID ITEM INCLUDE SHAPING & PLACING REVETMENT ON THE LAKE SHORELINE AND ROCK SILT DIKES AS SHOWN ON THESE PLANS. THE REVETMENT SHALL MEET IOWA D.O.T STANDARD SPECIFICATIONS OF HIGHWAY AND BRIDGE SECTION 4130 SERIES 2015 PLUS CURRENT SUPPLEMENTAL SPECIFICATION AND SPECIAL PROVISION.
3	SEEDING, FERTILIZING & SITE RESTORATION - BID ITEM INCLUDE EQUIPMENT, MATERIAL AND LABOR REQUIRED TO LEVEL AND PREPARE TOPSOIL FOR SEEDING AND MULCHING IN ALL DISTURBED AREAS. SEED MIXTURE ACCORDING TO SPECIFICATIONS OR OTHERWISE AS DIRECTED BY THE D.N.R FIELD ENGINEER.

GENERAL NOTES:

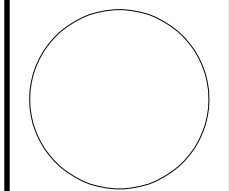
The contractor shall notify the following two weeks prior to construction:

1. District Inspector:
MARK JOHNSON
(515)-250-3713

2. Project Manager:
EMMANUEL SANG
(515)-321-7005

The contractor shall verify actual locations and elevations with the D.N.R Inspector.
 All work shall conform to and be performed in accordance with all applicable codes and ordinances.
 The contractor shall visit the site and inspect the project area and thoroughly familiarize themselves with the actual job conditions prior to the start of work. Failure to visit the project site shall not relieve the contractor from performing the work in accordance to the plans, specifications, special provisions and contract.
 The contractor shall verify, at the site, all dimensions and conditions shown on the plans and shall notify the D.N.R Inspector of any discrepancies, omissions and/or conflicts prior to proceeding with the work.
 The contractor is responsible for disposal for excess material (excavated material or broken concrete) which is not desirable to be incorporated into the work involved on this project. No payment for overhaul will be allowed for material hauled to these sites. No material shall be placed within the right-of-way, unless specifically stated in the plans or approved by the D.N.R Inspector.
 The contractor shall not disturb desirable grass areas and desirable trees outside construction limits. The contractor will not be permitted to park or service vehicles and equipment or use these areas for storage of materials. Storage, parking and service areas will be subject to the approval of the D.N.R inspector.
 The contractor is expected to have materials, equipment and labor available on a daily basis to install and maintain erosion control features on the project.
 The contractor shall be responsible for any damage to existing facilities resulting from their negligence, or that of a subcontractor, and said repairs shall be approved by the owner.

CONSULTANT:



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502 E. 9TH ST., DES MOINES, IA 50319-0034



ESTIMATED QUANTITIES

SHORELINE ARMORING FOR:
LAKE ICARIA

ADAM'S COUNTY, IA

NO.	BY DATE	REVISION

DRAWN BY: ES	PROJECT NUMBER: 18-04-02-01
CHK'D BY: MJ	DATE: OCT/2017

SHEET No:



CONSULTANT:

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NATURAL RESOURCES

ENGINEERING SERVICES WALLACE BUILDING
502 E. 9TH ST., DES MOINES, IA 50319-0034



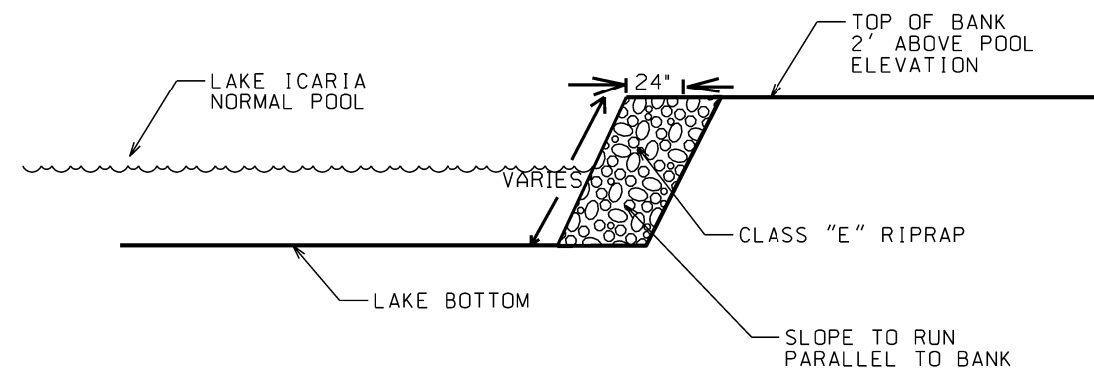
SITE PLAN

SHORELINE ARMORING FOR:
LAKE ICARIA

ADAMS COUNTY, IA

NO.	BY	REVISION

DRAWN BY: PROJECT NUMBER:
ES 18-04-02-01
CHKD BY: DATE:
HD OCT/2017
SHEET NO:



NOTE: PLACE 24" OF CLASS "D" RIPRAP ALONG EXISTING SHORELINE AS APPROVED BY THE ENGINEER. CLEARING AND SHAPING ARE TO BE INCIDENTAL TO PLACEMENT OF RIPRAP.

SHORELINE ARMORING DETAIL
NOT TO SCALE

AREA A 700 LF
CLASS 'E' REVETMENT
ARMORING

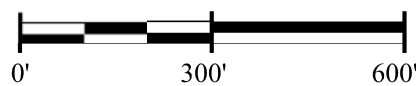
AREA C 600 LF
CLASS 'E' REVETMENT
ARMORING

AREA B 1200 LF
NEW SHORILNE
CLASS 'E' REVETMENT
ARMORING



NORTH

SCALE: 1" = 300'



CONSULTANT:

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SITE PLAN A

SHORELINE ARMORING FOR:
LAKE ICARIA

ADAMS COUNTY, IA

NO.	BY	REVISION

DRAWN BY: ES	PROJECT NUMBER: 18-04-02-01
CHKD BY: H.D.	DATE: OCT/2017
SHEET No: 5	