

CONSTRUCTION DOCUMENTS  
FOR  
PINE LAKE STATE PARK  
PAVEMENT MAINTENANCE  
  
HARDIN COUNTY, IOWA

DOT PROJECT #SP-641-0(9)--7C-42  
DNR PROJECT #17-02-42-01

**BRUCE L. FLIPPIN**  
LICENSED PROFESSIONAL ENGINEER  
19513  
IOWA

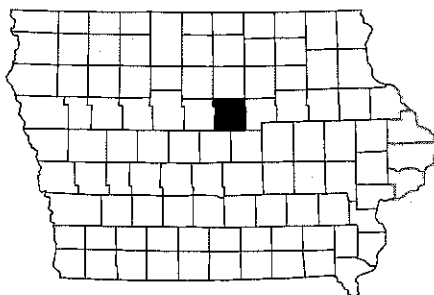
HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED UNDER MY SUPERVISION AND THAT ENGINEERING DECISIONS WITH REGARD TO THE DESIGN WERE MADE BY ME UNDER THE LAWS OF THE STATE OF IOWA.

*Don Labate* 10-17-2018  
SIGNATURE DATE

BRUCE L. FLIPPIN  
REGISTERED PROFESSIONAL NAME

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2018 *22*

PAGES COVERED BY THIS SEAL: *22*



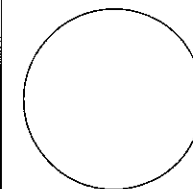
**IOWA ONE CALL**  
1-800-292-8989  
www.iowaonecall.com

BTU  
Be safe. Be sure. Call before you dig.

SHEET INDEX

A.01	COVER SHEET
A.02	LOCATION MAP
C.01	QUANTITIES AND GENERAL INFORMATION
D.01	SITE PLAN
D.02	SITE PLAN
D.03	SITE PLAN
D.04	SITE PLAN
D.05	SITE PLAN

CONSULTANT:



IOWA DEPARTMENT OF  
NATURAL RESOURCES

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



COVER SHEET

PAVEMENT MAINTENANCE FOR:

PINE LAKE STATE PARK

HARDIN COUNTY

DIRECTORY			
PROJECT MANAGER		CONSTRUCTION INSPECTOR	
COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES
ADDRESS	502 EAST 9TH STREET	ADDRESS	
CITY, STATE, ZIP	DES MOINES, IA, 50319	CITY, STATE, ZIP	
CONTACT	BRUCE L. FLIPPIN	CONTACT	DON LABATE
TELEPHONE	515-689-8009	TELEPHONE	515-250-3714
FAX	515-281-8885	FAX	
EMAIL	bruce.flippin@dnr.iowa.gov	EMAIL	don.labate@dnr.iowa.gov

**PROJECT DESCRIPTION**

The proposed project includes a bituminous fog seal, painted symbols, patching, transverse joint repair and crack and joint cleaning and sealing (HMA surfaces).

**AUTHORIZATION TO BID**

*Don Labate* 10-18-18  
AUTHORIZATION - PARKS | WILDLIFE | FISHERIES | LAW ENFORCEMENT | FORESTRY DATE

*Don Labate* 10/18/18  
ENGINEERING BUREAU CHIEF DATE

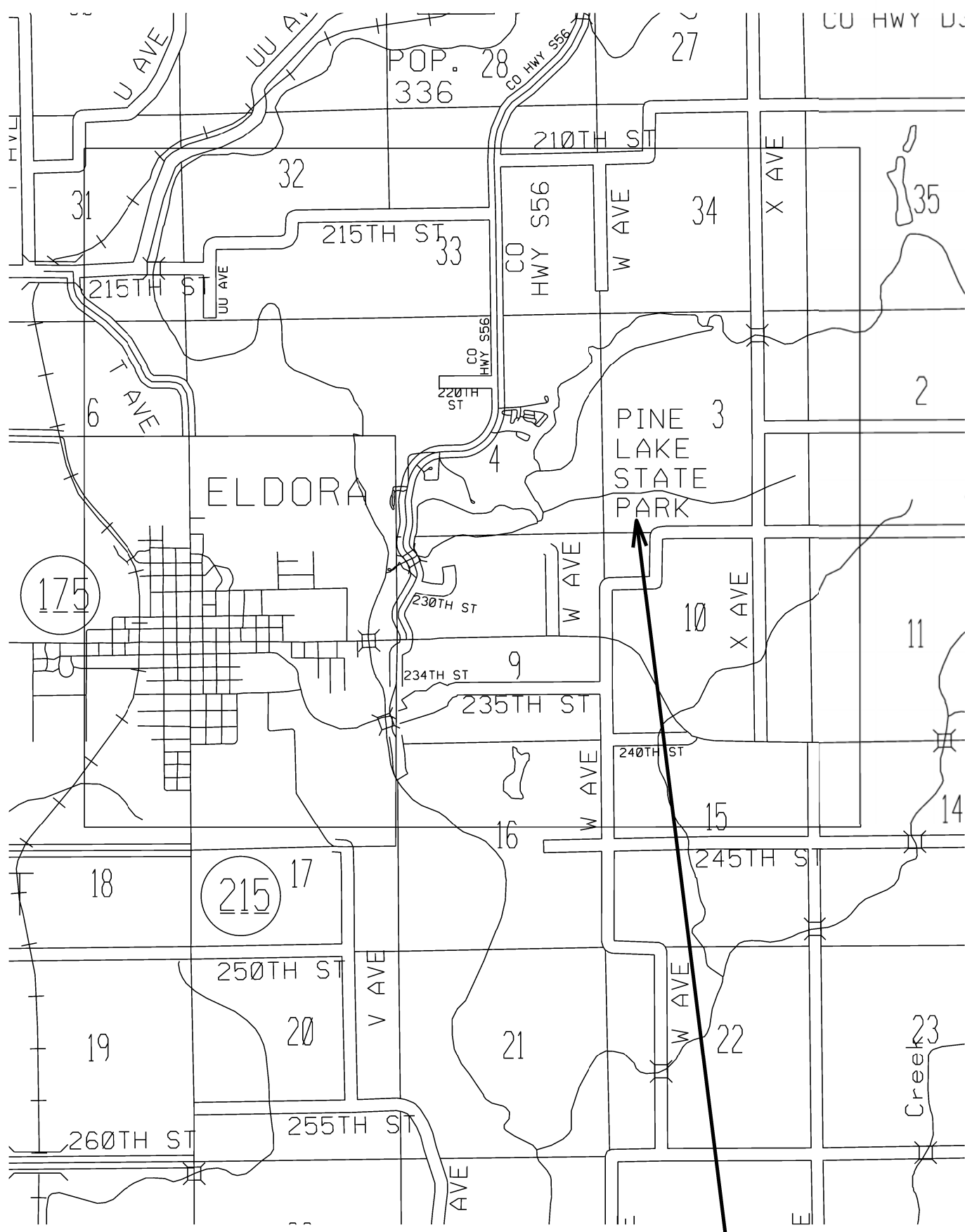
NO.	DATE	REVISION

DRAWN BY: BLF PROJECT NUMBER: 17-02-42-01

CHECKED BY: DATE: 1/3/2017

SHEET NO.:

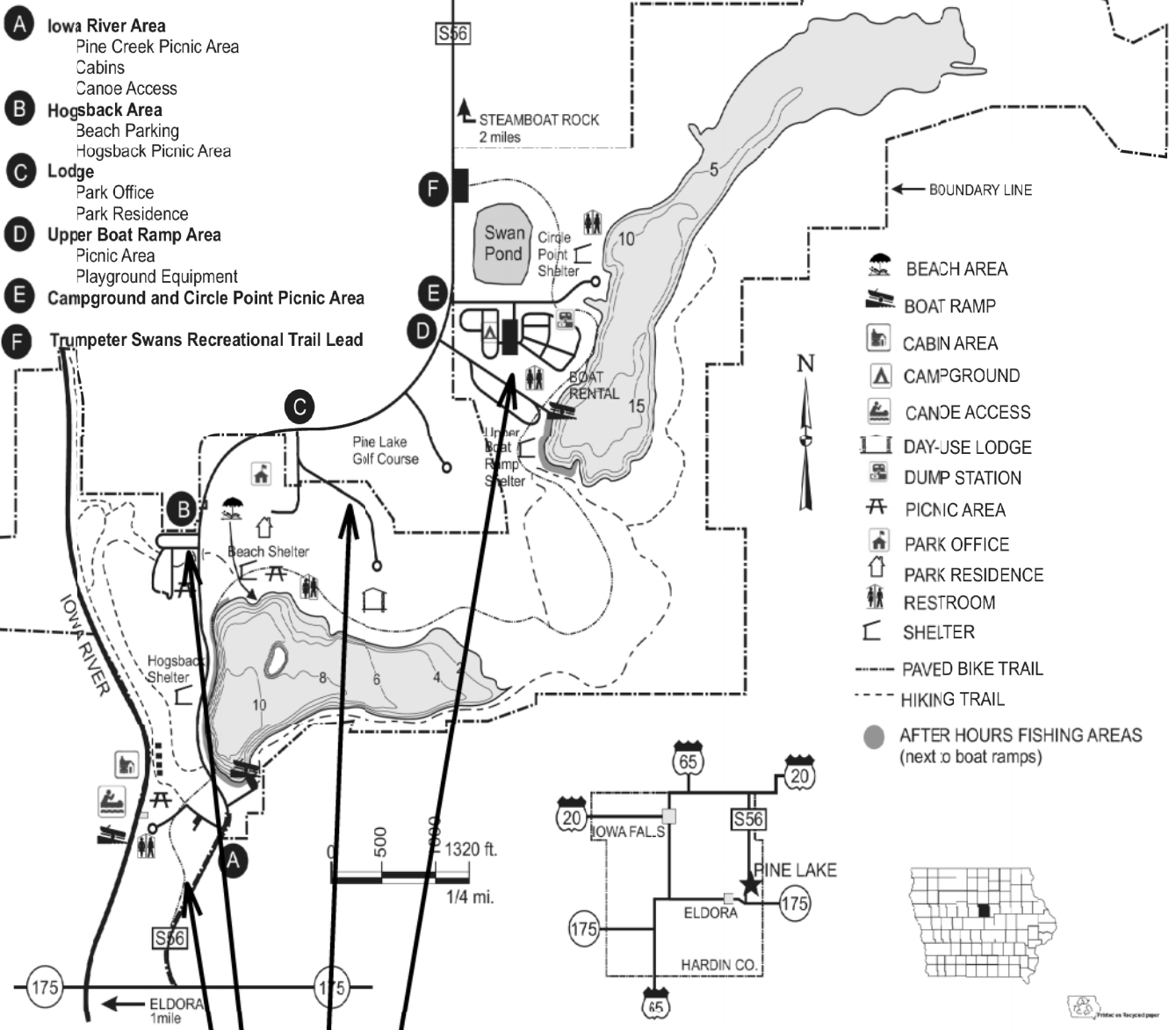
**A.01**



**PARK AREA ENTRANCES**

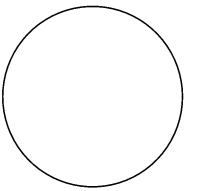
- A Iowa River Area**  
Pine Creek Picnic Area  
Cabins  
Canoe Access
- B Hogsback Area**  
Beach Parking  
Hogsback Picnic Area
- C Lodge**  
Park Office  
Park Residence
- D Upper Boat Ramp Area**  
Picnic Area  
Playground Equipment
- E Campground and Circle Point Picnic Area**
- F Trumpeter Swans Recreational Trail Lead**

**PINE LAKE STATE PARK**



**PROJECT LOCATION**

CONSULTANT:



**IOWA DEPARTMENT OF NATURAL RESOURCES**

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



**PROJECT LOCATION MAP**

PAVEMENT MAINTENANCE FOR:

**PINE LAKE STATE PARK**

HARDIN COUNTY

NO.	BY	REVISION

DRAWN BY: BLF  
PROJECT NUMBER: 17-02-42-01  
CHKD BY: DATE: 1/03/2017

SHEET No:

**A.02**

**ESTIMATED PROJECT QUANTITIES**

ITEM NO.	ITEM	UNIT	TOTAL
1	2306 - Bituminous Fog Seal (Pavement)	GAL	566
2	2518 - Safety Closure	EACH	6
3	2527 - Painted Symbols and Legends, Durable	EACH	5
4	2528 - Traffic Control	LS	1
5	2529 - Patches, Full-Depth Finish, By Area	SY	199
6	2529 - Patches, Full-Depth Finish, By Count	EACH	10
7	2533 - Mobilization	LS	1
8	2543 - Transverse Joint Repair	TON	92
9	2544 - Crack and Joint Cleaning and Sealing (HMA Surfaces)	MILE	2
10	2544 - Hot Mix Asphalt for Crack Sealing	TON	1
11	2544 - Sealer Material (HMA)	GAL	700

**ESTIMATE REFERENCE INFORMATION**

ITEM NO.	DESCRIPTION
1	A. Use asphalt emulsion grade CSS-1 or SS-1. Dilute with 4 parts water. Apply at a rate of 0.15 GAL/SY. A light coating of sand will be necessary in the campground area to prevent vehicle tracking. B. Fog seal all DNR HMA roads.
3	A. "STOP" bar. Use MUTCD standards for placement, size and shape.
5,6	A. 5-inch thickness.
8	A. 18-inch nominal width, but may be between 12 and 24 inches. 5-inch depth. B. Spread millings in granular parking areas as directed by the DNR field engineer. C. Quantities increased 15% for irregularities.
Working Hours: 8 am - 5 pm, Monday - Thursday No holidays No work July 1 - July 7	

**GENERAL NOTES**

Verify actual locations and elevations with DNR Engineer.

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 bidding and the start of work. Failure to visit the project site shall not relieve the contractor from performing the work in accordance to the plans, specification, special provisions and contract.

The contractor shall verify, at the site, all dimensions and conditions shown on the plans and shall notify the DNR Engineer of any discrepancies, omissions, and/or conflicts prior to proceeding with the work.

It shall be the contractor's responsibility to provide waste areas or disposal sites 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 DNR Engineer.

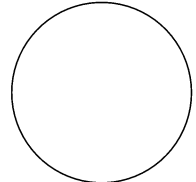
The contractor shall not disturb desirable grass areas and desirable trees outside the construction limits. The contractor will not be permitted to park or service vehicles and equipment or use these areas for storage of materials. Storage, parking and service areas will be subject to the approval of the DNR Engineer.

Where utilities and fixtures are shown as Existing on the plans or encountered within the construction area, it shall be the responsibility of the contractor to notify the DNR Engineer of those utilities prior to the beginning of any construction. The contractor shall be afforded access to these facilities for necessary modification of services. Underground facilities, structures and utilities have been plotted from available surveys and records and therefore their locations must be considered approximate only. It is possible there may be others, the existence of which is presently not known or shown. It is the contractor's responsibility to determine their existence and exact location and to avoid damage thereto. No claims for additional compensation will be allowed to the contractor for any interference or delay caused by such work.

The contractor shall shape graded area to maintain surface drainage. All elevations are to finish grade.

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. This may involve seeding, silt fence, rock ditch checks, silt basins or silt dikes.

CONSULTANT:



**IOWA DEPARTMENT OF NATURAL RESOURCES**  
 ENGINEERING SERVICES - WALLACE BUILDING  
 502 E. 9TH ST., DES MOINES, IA 50319-0034



**QUANTITIES AND GENERAL INFORMATION**

PAVEMENT MAINTENANCE FOR:  
**PINE LAKE STATE PARK**  
 HARDIN COUNTY

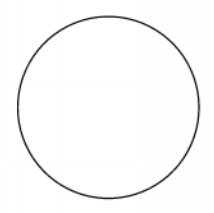
NO.	BY	REVISION

DRAWN BY: BLF	PROJECT NUMBER: 17-02-42-01
CHKD BY:	DATE: 1/03/2017

SHEET No:  
**C.01**



CONSULTANT:



**IOWA DEPARTMENT OF  
NATURAL RESOURCES**

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



**SITE PLAN**

PAVEMENT MAINTENANCE FOR:

**PINE LAKE STATE PARK**

HARDIN COUNTY

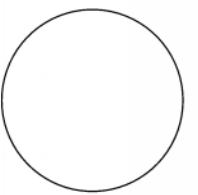
NO.	BY	REVISION

DRAWN BY:	PROJECT NUMBER:
BLF	17-02-42-01
CHKD BY:	DATE:
	1/03/2017

SHEET NO: **D.01**



CONSULTANT:



**IOWA DEPARTMENT OF  
NATURAL RESOURCES**

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



**SITE PLAN**

PAVEMENT MAINTENANCE FOR:

**PINE LAKE STATE PARK**

HARDIN COUNTY

NO.	BY	REVISION

DRAWN BY: PROJECT NUMBER:

BLF 17-02-42-01

CHKD BY: DATE:

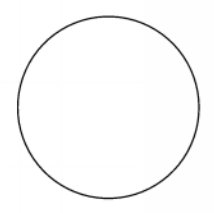
1/03/2017

SHEET No:

**D.02**



CONSULTANT:



**IOWA DEPARTMENT OF  
NATURAL RESOURCES**

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



**SITE PLAN**

PAVEMENT MAINTENANCE FOR:

**PINE LAKE STATE PARK**

FARDIN COUNTY

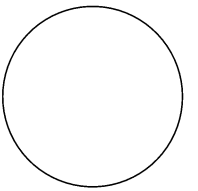
NO.	BY	REVISION

DRAWN BY: BLF  
PROJECT NUMBER: 17-02-42-01  
CHKD BY: DATE: 1/03/2017

SHEET No: **D.03**



CONSULTANT:



**IOWA DEPARTMENT OF  
NATURAL RESOURCES**

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



**SITE PLAN**

PAVEMENT MAINTENANCE FOR:

**PINE LAKE STATE PARK**

FARDIN COUNTY

NO.	BY	REVISION

DRAWN BY: **BLF** PROJECT NUMBER: **17-02-42-01**  
 CHKD BY: DATE: **1/03/2017**

SHEET No: **D.04**

20'X20'  
1 HMA patch

New PCC  
No Work

Safety  
Closure  
1 each

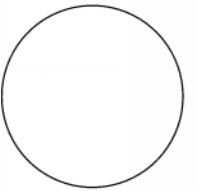
Stop bar  
1 each

0.11 miles  
16' wide HMA  
8 TJ repairs

S56



CONSULTANT:



**IOWA DEPARTMENT OF  
NATURAL RESOURCES**

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



**SITE PLAN**

PAVEMENT MAINTENANCE FOR:

**PINE LAKE STATE PARK**

FARDIN COUNTY

NO.	BY	REVISION

DRAWN BY:	PROJECT NUMBER:
BLF	17-02-42-01
CHKD BY:	DATE:
	1/3/2017

SHEET No: **D.05**