IOWA DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION DOCUMENTS FOR LAKE ANITA STATE PARK PAVEMENT MAINTENANCE

CASS COUNTY, IOWA

DOT PROJECT #SP-00SP(4)--7C-00 PROJECT # 17-04-15-01



I 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. Heath Delzell Digitally signed by Heath Deizell My Licence Renewal Date is December 31, 20 <u>20</u> PAGES COVERED By THIS SEAL: <u>All</u>



PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF PAVEMENT MAINTENANCE FOR 7.9 MILES OF HMA ROADWAY, INCLUDING FOG SEALING, CLEANING AND FILLING CRACKS, SLURRY LEVELING, MILLING AND JOINT REPAIR, AND INCIDENTAL WORK AS DIRECTED BY DNR INSPECTOR.



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					
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DIRECTORY

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		IOWA DEPARTMENT OF	NATURAL RESOURCES	ENGINEERING SERVICES - WALLACE BUILING	302 E. YIH 31., DES MOINES, IA 30317-0034
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		COVER SHEET	PAVEMENT MAINTENANCE FOR:	LAKE ANITA STATE PARK	CASS COUNTY
		O BY DATE	PROJECT 17-04 DATE:	NUMBER: -15-01	



ROAD	LENGTH	WIDTH	AREA SY	TJ REPAIRS	TONS	MILES	PATCHES
LAKE RD	12,611'	20'	28,024	88	107.18	2.388	(6X19)(9X20)(5X20)(4X20)(4X20)(8X20)(8X20)
LAKE RD LOOP	407'	18'	814			0.077	
BLAZING STAR LN	680'	12'	907			0.129	(3X8)(3X4)
TREFOIL LN	569'	20'	1264	3	3.654	0.108	
TREFOIL LN LOOP	880'	14'	1369	1	0.853	0.167	(14X50)
BEACH RD	4025'	20'	8944	31	37.758	0.762	
BEACH RD LOOP	1853'	20'	4118	11	13.398	0.351	
SHELTER SPUR/LOOP	595'	12'	793			0.113	(8X6)
PIER SPUR	88'	20'	195			0.017	
PIER LOOP	318'	12'	424			0.060	
MILKWEED LN	745'	20'	1654	4	4.872	0.141	
MILKWEED LN LOOP	742'	12'	989	4	2.923	0.141	
SOUTH RAMP RD	454'	16'	807	3	2.923	0.086	
ENTRANCE RD	1856'	22'	4537	8	10.718	0.352	
OFFICE RD	411'	14'	639	3	2.558	0.078	
NORTH RAMP RD	389'	20'	864			0.074	(3X26)
NORTH RAMP LOOP	254'	12'	339			0.048	
CAMPGROUND LN1	5526'	14'	8596	47	40.072	1.047	
CAMPGROUND LN2	5070'	12'	6760	6	4.385	0.960	(7X5)(5X3)
CAMPGROUND LN3	3976'	12'	5301	6	4.385	0.753	(8X10)

PATCHES	
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ESTIMATED PROJECT QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
1	2306 - BITUMINOUS FOG SEAL (HMA PAVEMENT)	GAL	3,866
2	2319 - SLURRY LEVELING	MILES	7.9
3	2319 - ASPHALT EMULSION FOR SLURRY LEVELING, SLURRY WEDGE, AND SLURRY TREATMENT	GAL	1,975
4	2528 - TRAFFIC CONTROL	L.S.	1
5	2529 - PATCHES, FULL-DEPTH FINISH, 6-IN., BY AREA, HMA	SY	208
6	2529 - PATCHES, FULL-DEPTH FINISH, 6-IN., BY COUNT, HMA	EA	15
7	2533 - MOBILIZATION	L.S.	1
8	2540 - LONGITUDINAL JOINT REPAIR	LF	400
9	2543 - TRANSVERSE JOINT REPAIR	TONS	236
10	2541 - CLEANING AND FILLING CRACKS (HMA SURFACES)	MILES	7.9
11	2541 - SEALER MATERIAL (HMA SURFACES)	LBS	3,950

ESTIMATE REFERENCE INFORMATION

NO. DESCRIPTION

1 A. Dilute with water - 2 parts water: 1 part emulsion. Apply at a rate of 0.15 GAL/SY.

3 A. Use SS-1H emulsified asphalt.

ITEM

4 A. This item includes ALL pilot cars and/or flaggers needed to complete the work under traffic.

8 A. Nominal size of longitudinal joints will be 2 feet wide and 3 inches deep. Millings to be removed from park, or as directed by DNR Field Engineer.

9 A. Nominal size of transverse joints will be 2 feet wide and 5 inches deep. Millings to be removed from park, or as directed by DNR Field Engineer.

GENERAL NOTES

Verify actual locations and elevations with DNR Engineer.

All work shall conform to and be performed in accordance with all ordinances.

The contractor shall visit the site and inspect the project area and themselves with the actual job conditions prior to bidding and the visit the project site shall not relieve the contractor from performing to the plans, specification, special provisions and contract.

The contractor shall verify, at the site, all dimensions and condition shall notify the DNR Engineer of any discrepancies, omissions, and, proceeding with the work.

It shall be the contractor's responsibility to provide waste areas or material (excavated material or broken concrete) which is not desi into the work involved on this project. No payment for overhaul w hauled to these sites. No material shall be placed within the rightstated in the plans or approved by the DNR Engineer.

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

Where utilities and fixtures are shown as Existing on the plans or e construction area, it shall be the responsibility of the contractor to of those utilities prior to the beginning of any construction. The co access to these facilities for necessary modification of services. Un structures and utilities have been plotted from available surveys ar their locations must be considered approximate only. It is possible existence of which is presently not known or shown. It is the contracter determine their existence and exact location and to avoid damage additional compensation will be allowed to the contractor for any i caused by such work.

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

The contractor is expected to have materials, equipment, and labo to install and maintain erosion control features on the project. The fence, rock ditch checks, silt basins or silt dikes.

Iowa DOT specification sections are listed before each bid item.

No work will be allowed from 12 noon Friday until the following N

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