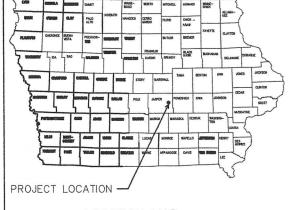
## IOWA DEPARTMENT OF NATURAL RESOURCES

## FOR ROCK CREEK STATE PARK SHORELINE STABILIZATION JASPER COUNTY, IOWA

PROJECT # 24-05-50-01



LOCATION MAP



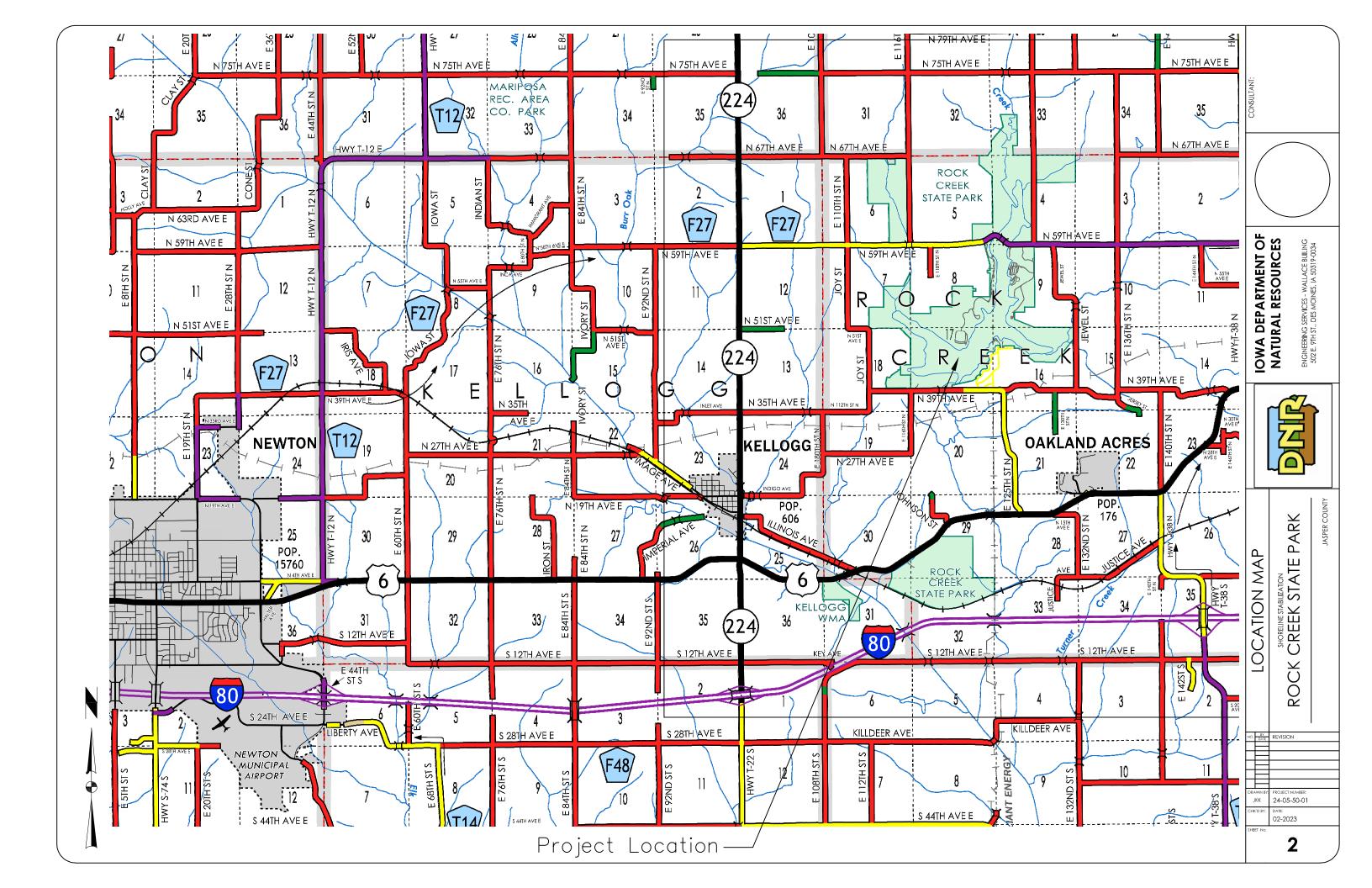
JASON E	I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of lowa.  3-18-24			
KRUSE ZE	Signature	Date		
39: 19718 : TE	License Number 19718			
23.	My license renewal date is Decembe	er 31, 2025.		
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	DIRE	CTORY	
PROJECT MANAGER CONSTRUCTION INSPECTOR		CTION INSPECTOR	
COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES
ADDRESS	806 E. TRAIL RIDGE PLACE	ADDRESS	806 E. TRAIL RIDGE PLACE
CITY,STATE,ZIP	INDIANOLA, IA 50125	CITY,STATE,ZIP	INDIANOLA, IA 50125
CONTACT	JASON KRUSE	CONTACT	JASON KRUSE
TELEPHONE	515-250-3707	TELEPHONE	515-250-3707
FAX	N/A	OFFICE	N/A
EMAIL	JASON.KRUSE@DNR.IOWA.GOV	EMAIL	JASON.KRUSE@DNR.IOWA.GOV

PROJECT DESCRIPTION	
THIS PROJECT CONSISTS OF ARMORING ERODED SHORELINES WITH REVETMENT.	

AUTHORIZATION	TO BID
FISHERIES BUREAU CHIEF	DATE
ENGINEERING BUREAU CHIEF	DATE

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1	COVER SHEET				
3	LOCATION MAP QUANTITIES & GENERAL NOTES				
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	ESTIMATED PROJECT QUANTITIES		
ITEM NO.	ITEM	UN <b>I</b> T	TOTAL
1	MOBILIZATION	LUMP SUM	1
2	CLASS "E" RIPRAP	TONS	25,491.75
3	SITE RESTORATION	LUMP SUM	1

	ESTIMATE REFERENCE INFORMATION
ITEM NO.	DESCRIPTION
1	Includes incidentals, mobilizing men & equipment, bonding & insurance costs, etc.
2	Use class "E" riprap from an lowa DOT approved source.
3	Include site restoration, repair of grounds, seed, fertilizer and mulch of repaired grounds. Use a sun/shade turf grass, starter fertilizer, and straw mulch, all by Iowa DOT specifications.

## **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.



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GENERAL NOTES ≪ QUAITITIES  $\overset{\circ}{\mathsf{A}}$ 

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RIPRAP APPLICATION RATES:

|HEAVY (H) = 1.75 TONS/LF

|MEDIUM (M) = 1.50 TONS/LF

|LIGHT| (L) = 1.25 TONS/LF

EXAMPLE: M236' IS MEDIUM RATE, 236 FEET LONG, TIMES 1.5 = 354 TONS

RIPRAP MAY BE STOCKPILED IN EXISTING GRAVEL PARKING LOTS AND TRANSPORTED INTO SMALLER EQUIPMENT FOR DELIVERY TO WORK AREAS. RIPRAP SHALL BE TRANSPORTED ON EXISTING PARK TRAILS TO WORK AREAS. HAUL ROUTES MUST BE APPROVED BY ENGINEER. IN AREAS WITH HEAVY TREE COVER, RIPRAP SHALL BE PLACED WITH SMALL EQUIPMENT SUCH AS SKID LOADERS AND MINI-EXCAVATORS TO AVOID REMOVAL OR DAMAGE TO TREES. TO GAIN ACCESS TO SHORELINES, UNDERBRUSH MAY BE RUN OVER, MOWED, MULCHED, OR OTHERWISE DAMAGED OR REMOVED WITHOUT DISRUPTION OF THE SOILS. TREES ARE NOT TO BE DAMAGED OR REMOVED.

NO SHAPING OF THE SHORELINE IS NECESSARY. SEE DETAILS ON SHEET 5.



IOWA DEPARTMENT OF NATURAL RESOURCES

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24-05-50-01 DATE: 02-2023

SITE PLAN

