IOWA DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION DOCUMENTS FOR SHIMEK STATE FOREST ROAD MAINTENANCE

LEE COUNTY, IOWA

DOT PROJECT #SP-00SP(3)--7C-00 DNR PROJECT #20-06-56-01



I HEREBY CERTIFY THAT THIS EN PREPARED UNDER MY SUPERVIS DECISIONS WITH REGARD TO TH UNDER THE LAWS OF THE STATE	SION AND THAT ENGINEERING IE DESIGN WERE MADE BY ME
Bruce L. Flippin	BN C=US, E=Bruce.Flippin@dnriwea.gov, O=Iowa DNR, OU=Land 8 Waters - Engineering Bureau, CN=Bruce L. Flippin Date: 2022.05.16 14:58:50-05'00'
SIGNATURE	DATE
BRUCE L. FLIPPIN	
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PROJECT DESCRIPTION

This project consists of the removal of an existing, sectional concrete beam, low water crossing, the installation of articulated concrete block matting, removal and installation of an RCP culvert, placement of macadam/erosion stone/rip rap and ditch deaning.



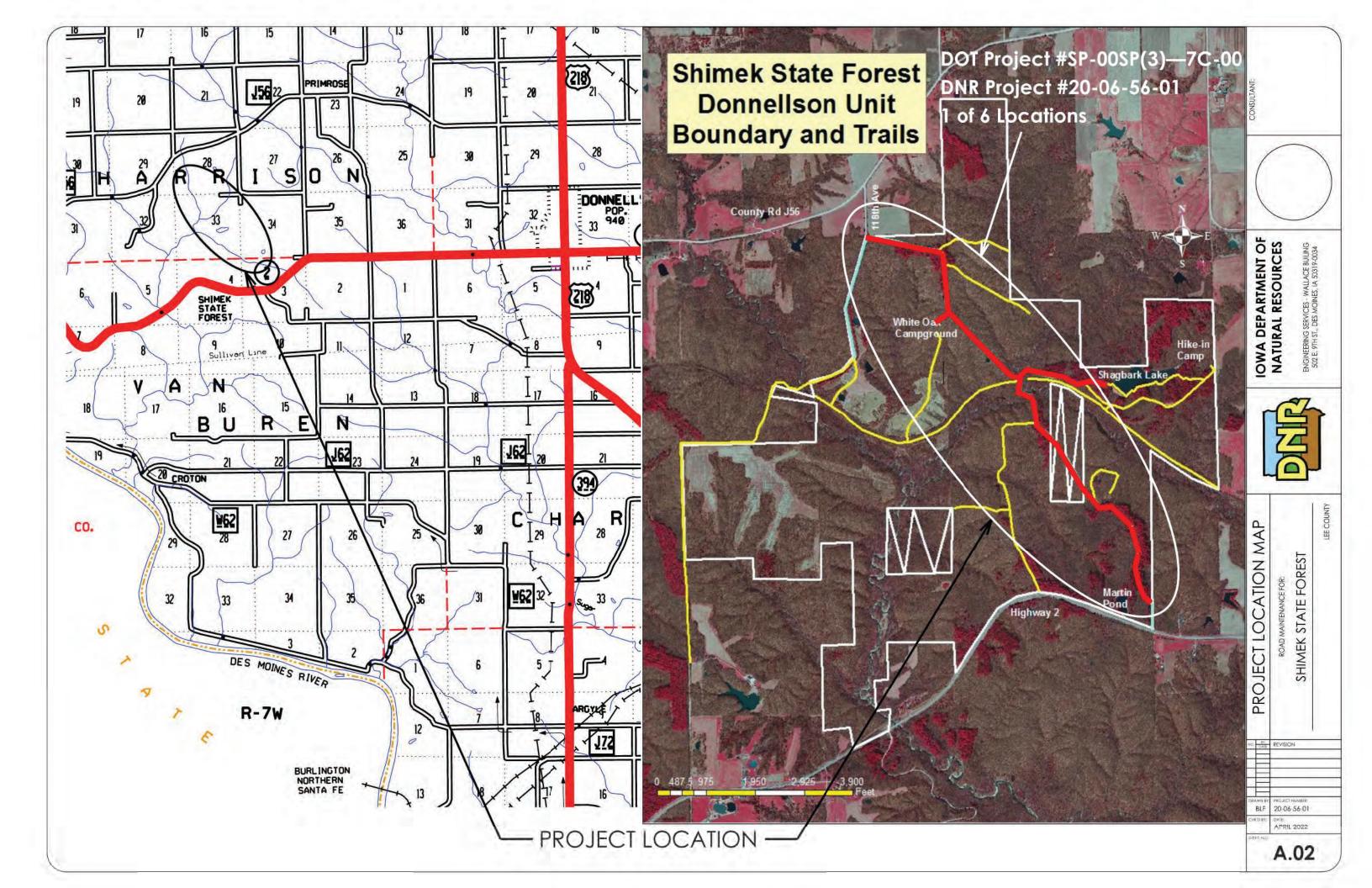
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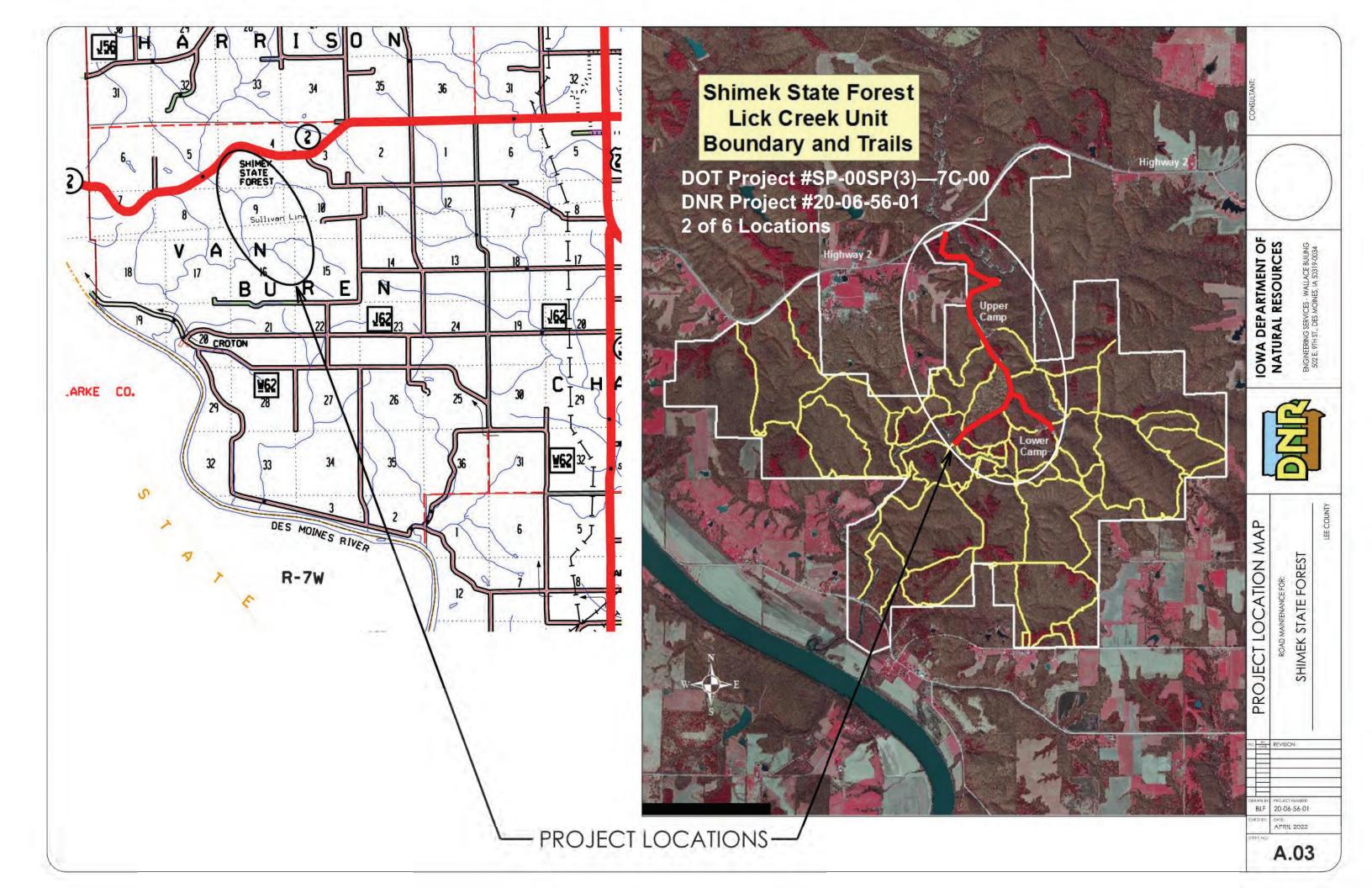


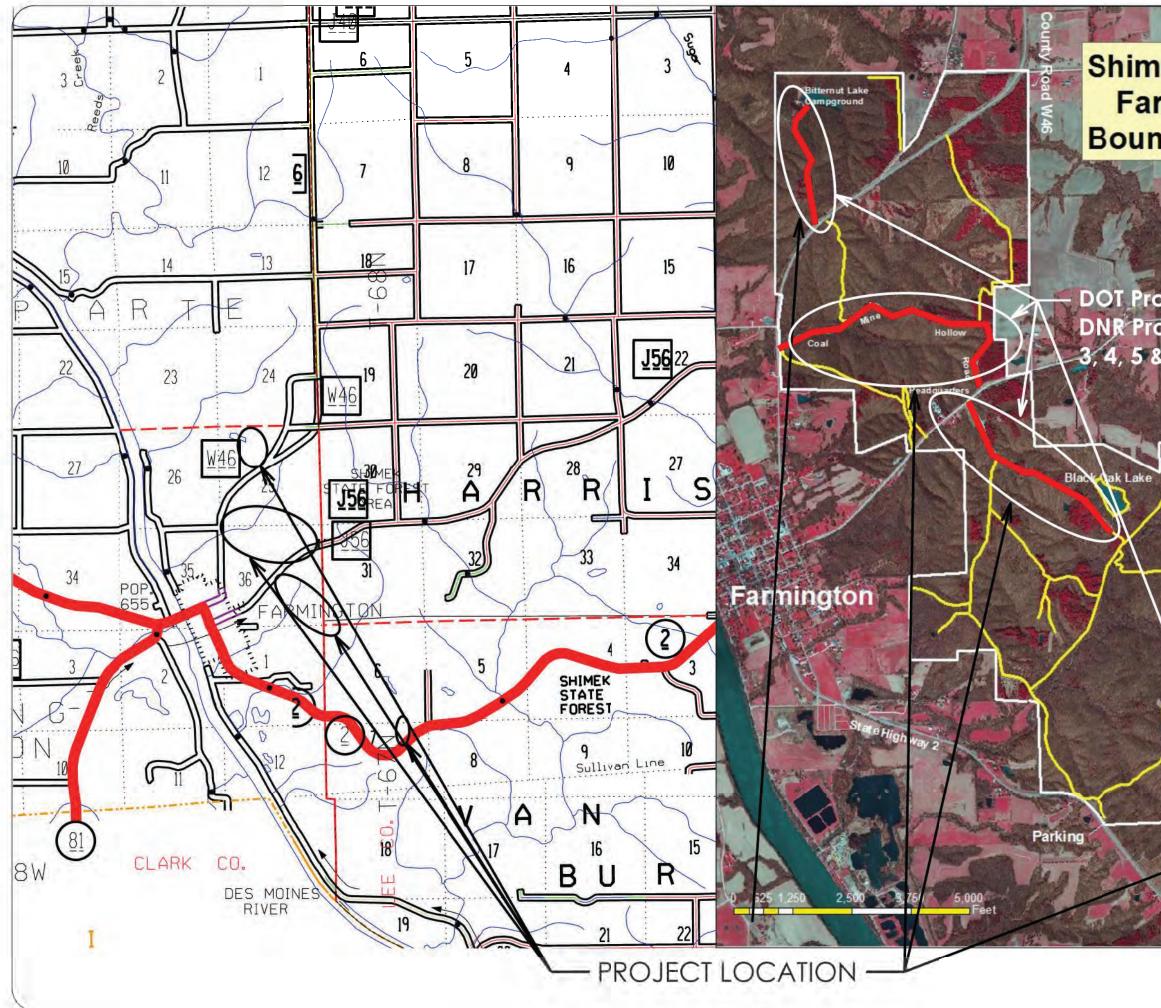
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PROJECT	MANAGER	CONSTRUCTION INSPECTOR		
COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	
ADDRESS	502 EAST 9TH STREET	ADDRESS		
CITY,STATE,ZIP	DES MOINES, IA, 50319	CITY,STATE,ZIP		
CONTACT	BRUCE L. FLIPPIN	CONTACT	MIKE DUFOE	
TELEPHONE	515-689-8009	TELEPHONE	515-985-9196	
FAX	515-281-8685	FAX		
EMAIL	bruce.flippin@dnr.iowa.gov	EMAIL	michael.dufoe@dnr.iowa.gov	

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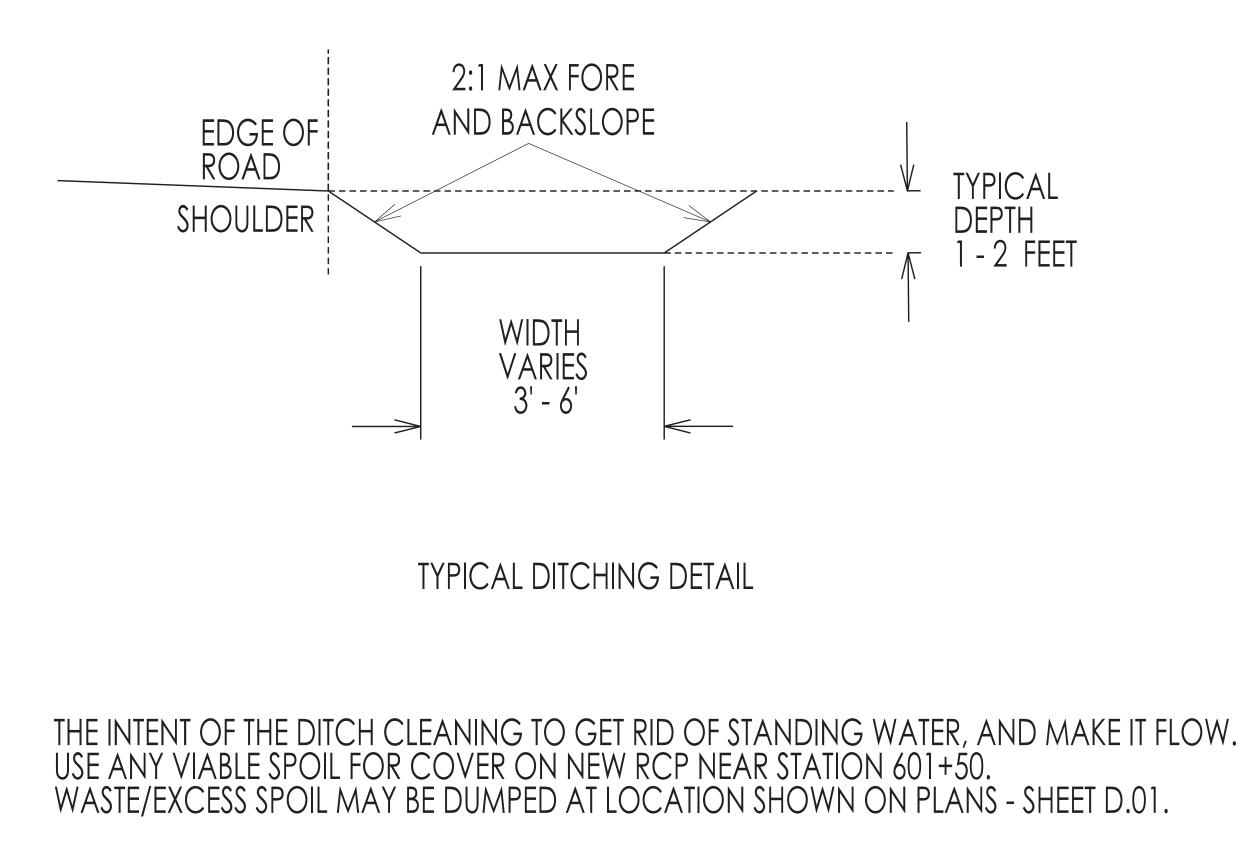


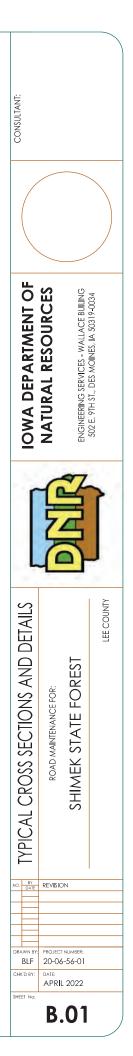
Shimek State Forest Farmington Unit Boundary and Trails

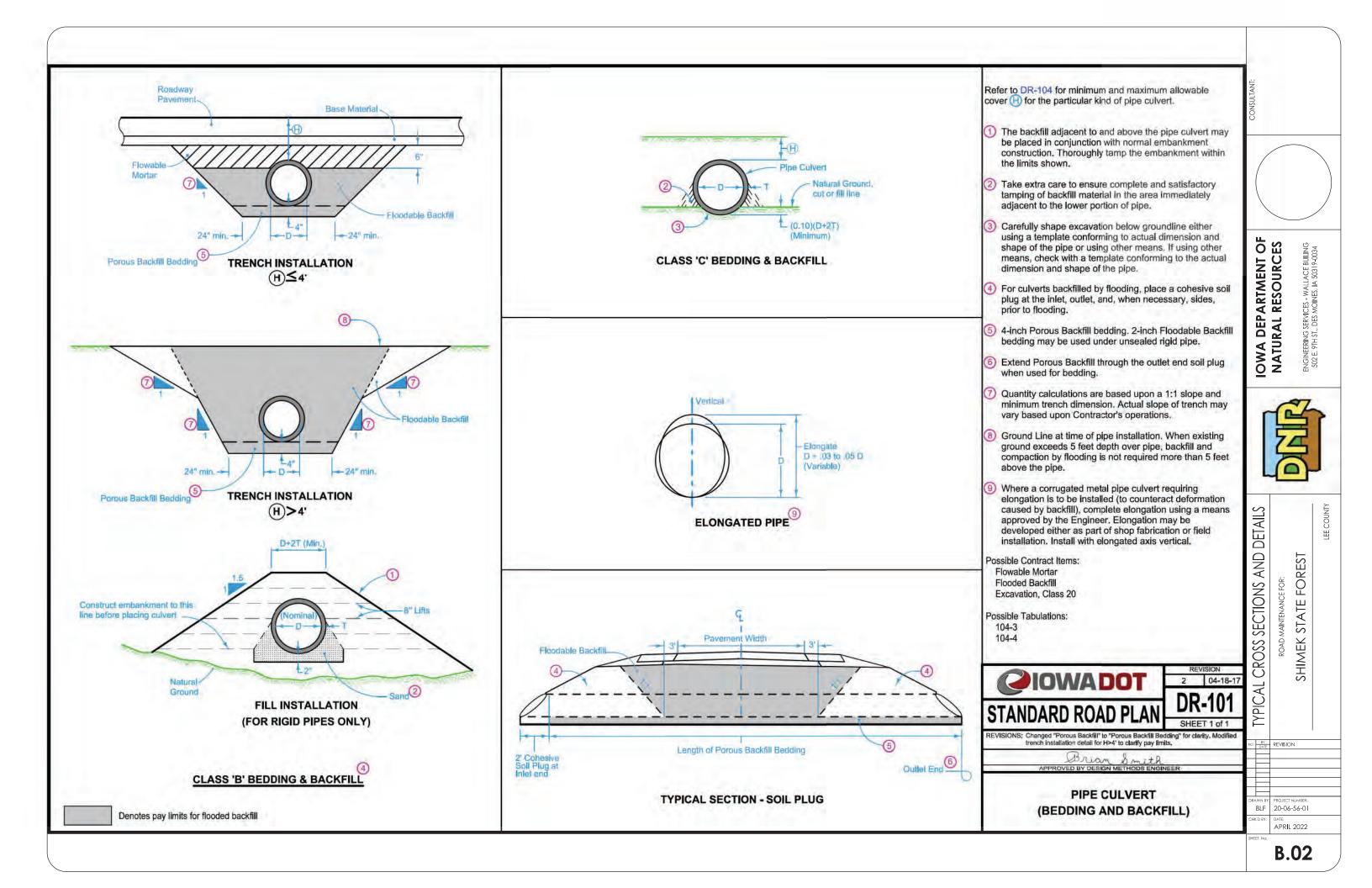
DOT Project #SP-00SP(3)-7C-0 DNR Project #20-06-56-01 3, 4, 5 & 6 of 6 Locations

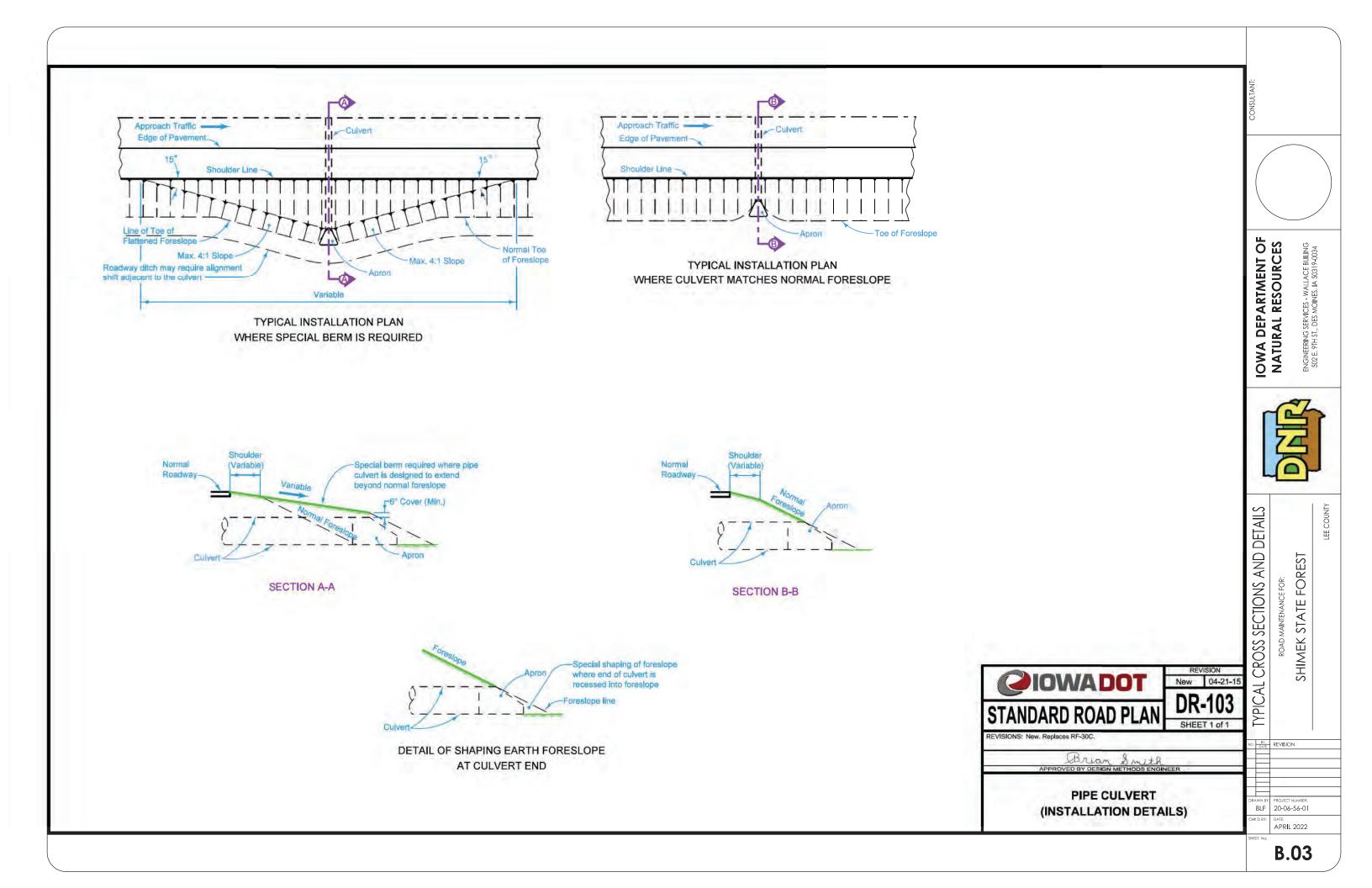
State Bighway 2

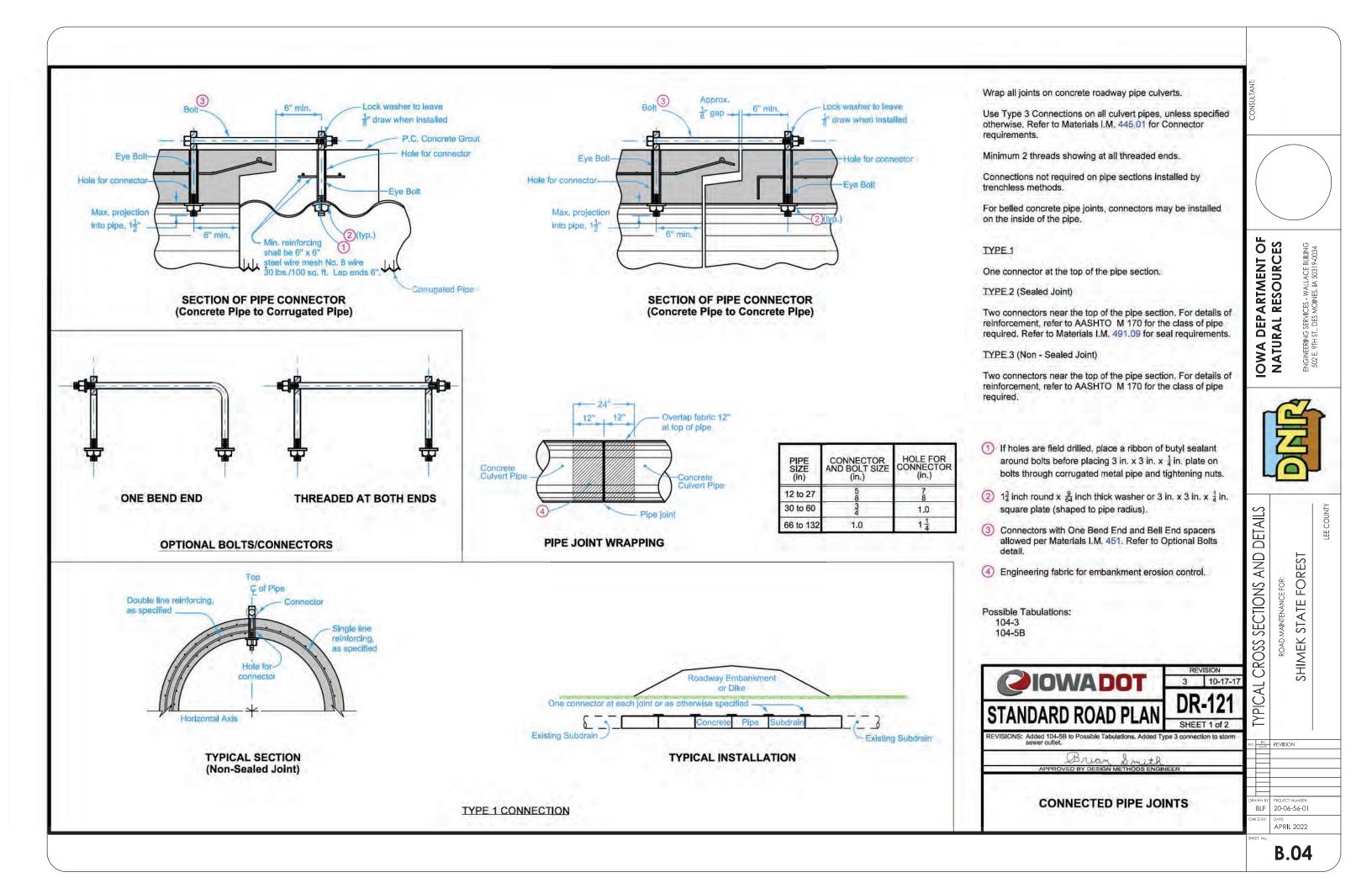
PROJECT LOCATION MAP ROAD MAINTENANCE FOR: SHIMEK STATE FOREST	IOWA DEPARTMENT OF		ENGINEERING SERVICES - WALACE BULING	
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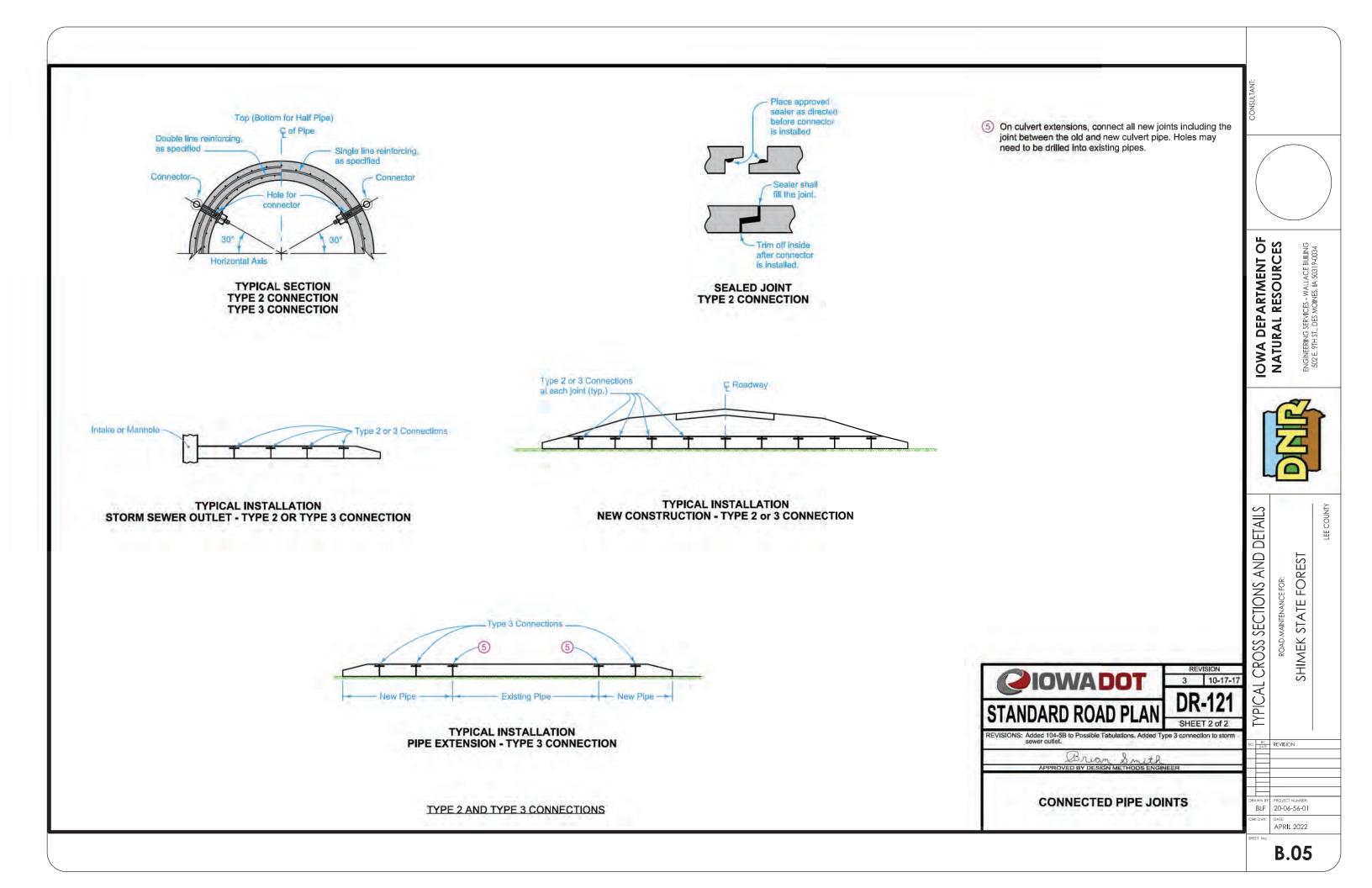












ESTIMATED PROJECT QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
1	"ARMORFLEX 55-S", OR APPROVED EQUAL,	800	SF
	CLOSED CELL ARTICULATED MATTING 16' x 50'		
2	SITE PREP FOR ARMORFLEX	1	LS
3	2102 - SPECIAL BACKFILL	2	TON
4	2125 - DITCH CLEANING	13.5	STA
5	2127 - RECONSTRUCTION OF ROADBED - BLADING/SHAPING	4	STA
6	2312 - GRANULAR SURFACING ON ROAD, CLASS A CRUSHED STONE	40	TON
7	2416 - APRON, CONC, 18"	2	EACH
8	2416 - CULV, CONC RDWY PIPE, 18"	50	LF
9	2507 - ENGINEERING FABRIC	135	SY
10	2507 - MACADAM STONE	35	TON
11	2507 - REVETMENT, CLASS E	50	TON
12	2507 - EROSION STONE	10	TON
13	2518 - SAFETY CLOSURE	3	EACH
14	2528 - TRAFFIC CONTROL	1	LS
15	2533 - MOBILIZATION	1	LS
16	2601 - SEED+FERTILIZE (RURAL)	0.5	ACRE

ESTIMATE REFERENCE INFORMATION

ITEM NO.	DESCRIPTION
1	A. "Armorflex" 55-S, or approved equal articulated concrete block matting.
	B. Remove existing concrete beam low water crossing - dispose of offsite.
	C. Turn down 2-foot of upstream matting edge; 4:1 minimum.
2	A. Grade/prep area site for macadam stone/block matting - DNR Field Engineer approval needed before installing block matting.
3	A. Use for RCP bedding - DOT approved source.
4	A. The intent of this item is to get water to flow.
	B. Use spoil for embankment at culvert replacement.
	C. Place any excess spoil/waste at location shown on plans.
	D. Anticipated quantity is approximately 30 CY/STA.
	E. Locations will be marked.
	F. 25% added for irregularities.
5	A. At culvert replacement and low water crossing.
	B. Blade to maintain positive flow off of roadway; 2% - 4% crown or cross slope.
6	A. At culvert replacement and low water crossing.
	B. Blade/spread and roll after placement.
7.0	
7,8	A. Pin and wrap each connection; use Type 3 connections.
	B. DNR Field Engineer will mark inlet/outlet locations.
	C. Use existing inlet flowline elevation unless otherwise directed by DNR Field Engineer.
	D. DOT approved source.
	E. New culvert is longer; use spoil from ditch cleaning for additional embankment.
	F. Remove old culverts from project site.
10	A. Use under concrete block matting in stream channel - (0.75' x 18' x 40').
10	
11-12	A. Revetment - Iow water crossing and RCP outlet. Erosion Stone - RCP inlet.
	 B. Place at the direction of the DNR Field Engineer.
	C. DOT approved source.
13	A. Follow Iowa DOT Spec 2528 for set-up details.
16	A. Use Rural mix, apply at twice the normal rate.
	B. DOT approve source.

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

The contractor shall verify, at the site, all dimensions and conditions 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 desir into the work involved on this project. No payment for overhaul wi hauled to these sites. No material shall be placed within the right-o stated 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 or equipment or use these areas for storage of materials. Storage, par will be subject to the approval of the DNR Engineer.

Where utilities and fixtures are shown as Existing on the plans or en construction area, it shall be the responsibility of the contractor to r of those utilities prior to the beginning of any construction. The cor access to these facilities for necessary modification of services. Unc structures and utilities have been plotted from available surveys and their locations must be considered approximate only. It is possible t existence of which is presently not known or shown. It is the contra determine their existence and exact location and to avoid damage t additional compensation will be allowed to the contractor for any ir 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 labor to install and maintain erosion control features on the project. This fence, rock ditch checks, silt basins or silt dikes.

NO WORK FROM 12 NOON FRIDAYS, UNTIL THE FOLLOWING MONI

	CONSULTANT
applicable codes and	8
thoroughly familiarize start of work. Failure to ng the work in accordance	
ns shown on the plans and /or conflicts prior to	
disposal sites for excess rable to be incorporated vill be allowed for material of-way, unless specifically	OWA DEPARTMENT OF NATURAL RESOURCES ENGINEERING SERVICES - WALLACE BUILING 502 E. 9TH ST., DES MOINES, IA 50319-2034
e trees outside the r service vehicles and arking and service areas	OWA DEP, NATURAL ENGINEERING SERVI 502 E. 9TH ST., DES,
ncountered within the notify the DNR Engineer ontractor shall be afforded nderground facilities, nd records and therefore there may be others, the ractor's responsibility to thereto. No claims for interference or delay	
ge. All elevations are to	
r available on a daily basis is may involve seeding, silt	FORM
DAY.	QUANTITIES AND GENERAL INFORMA ROAD MANTENANCE FOR: SHIMEK STATE FOREST
	DRAWN BY. PROJECT NUMBER: BLF 20-06-56-01
	CHK'D BY: DATE: APRIL 2022
	SHEET NO: C.01

Ferrie

HEADQUARTERS OFFICE

FARMINGTON

SHEET D.0

SHEET D.02 (NO WORK)

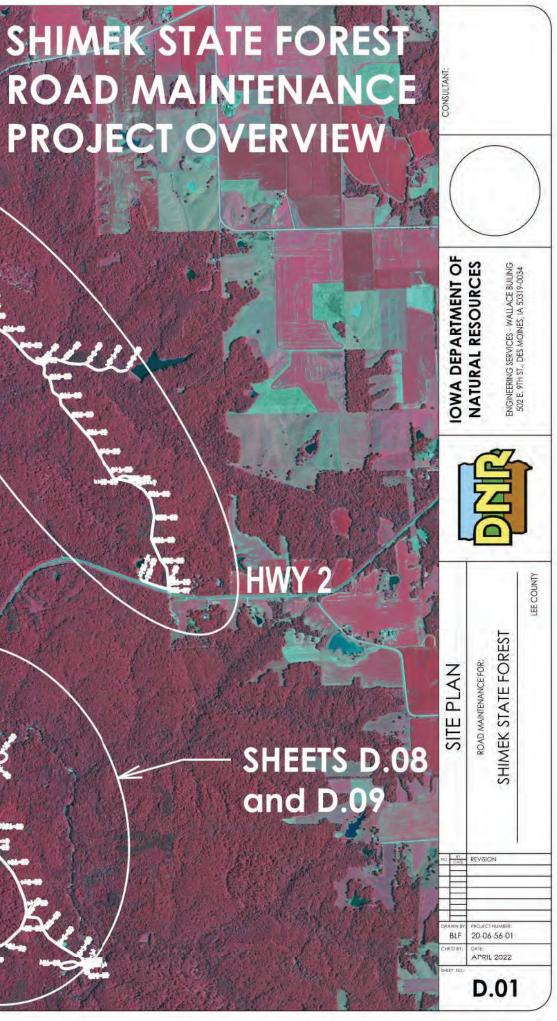
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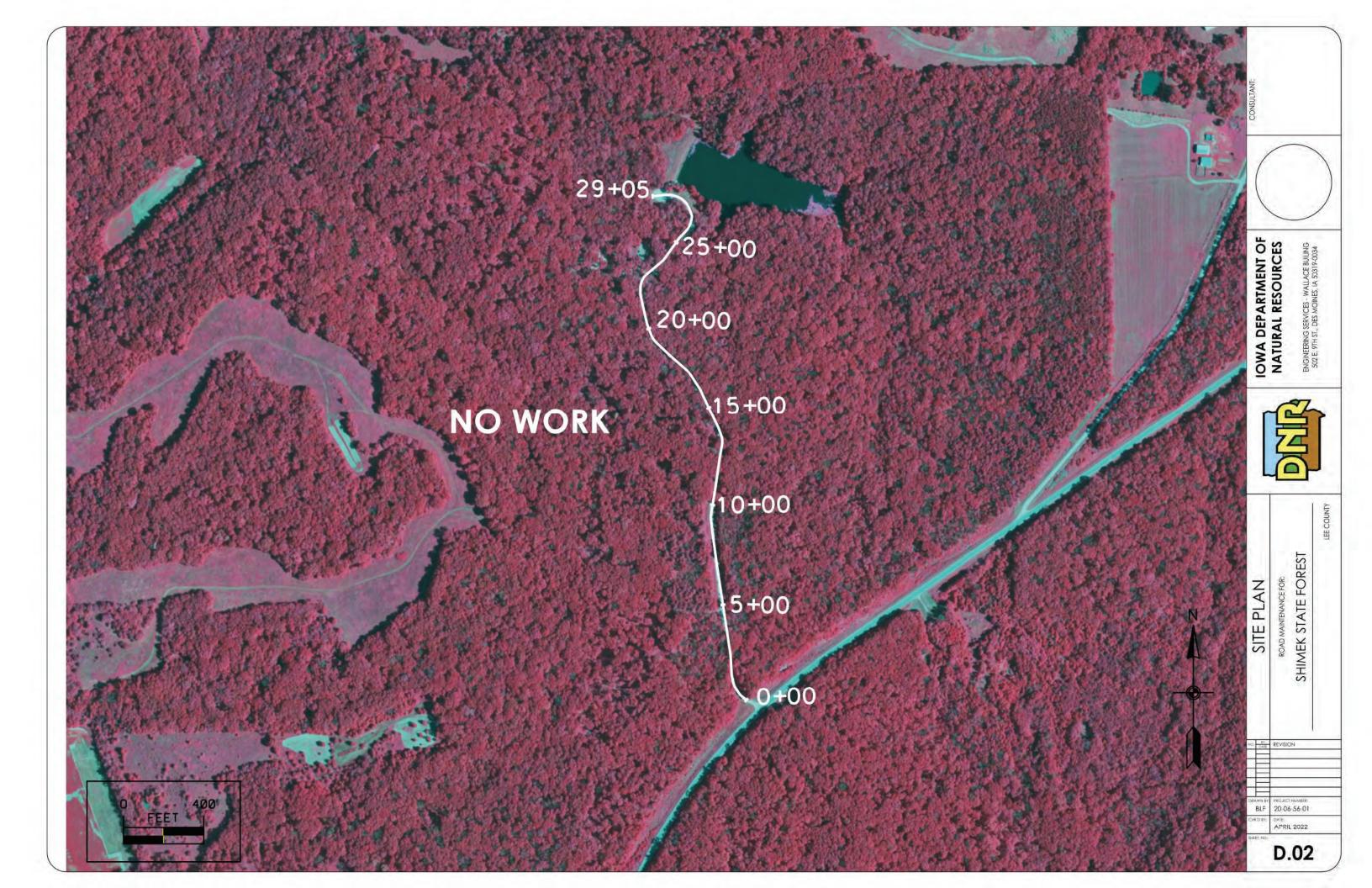
SPOIL SITE

SHEET D.04 (NO WORK)

SHEETS D.06 and D.07 (NO WORK)

SHEET D.05

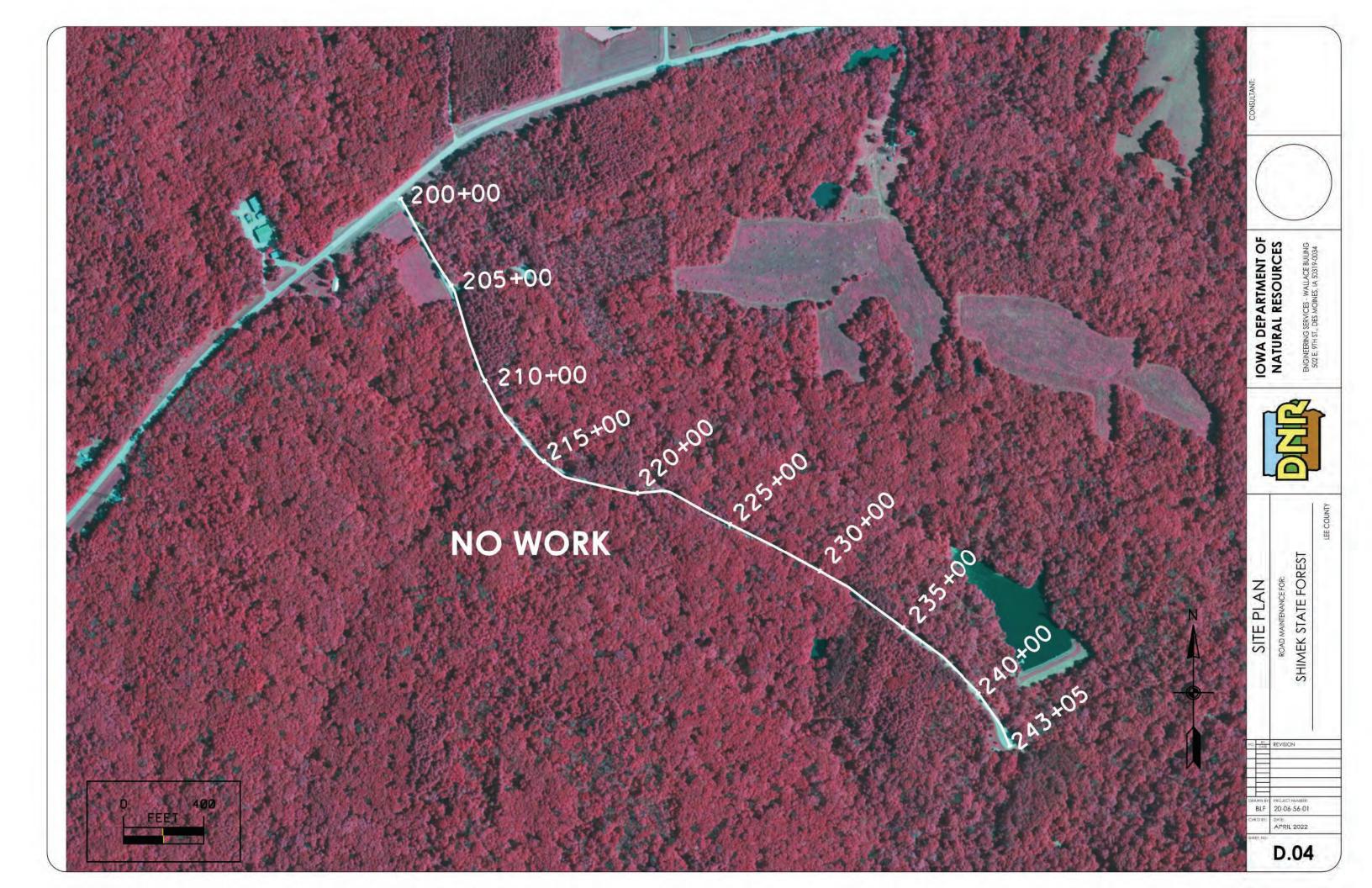




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Mr. Manner I.	4.8 STATIC	NS TOTAL	161	+61		
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SEE SHEET B.01 FOR				
TYPICAL DITCH DETAILS				
SEED+FERTILIZE (RURAL)				
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