IOWA DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION DOCUMENTS FOR NISHNABOTNA WILDLIFE UNIT 2019 FLOOD DAMAGE REPAIRS PHASE 1 - VARIOUS ROADS

FREMONT COUNTY, IOWA

PROJECT # 22-04-36-01

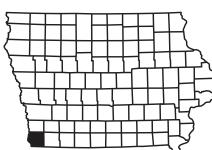


PREPARED UNDER MY SUPERVISION AND THAT ENGINEERING DECISIONS WITH REGARD TO THE DESIGN WERE MADE BY ME UNDER THE LAWS OF THE STATE OF IOWA.
Digitally signed by Mandi Lu Aldrich Peters Date: 2024.11.05 10:57:02 -06'00'
SIGNATURE DATE
MANDI L. ALDRICH PETERS
PRINTED OR TYPED NAME
MY LICENCE DENEWAL DATE IS DECEMBED 21, 20.25

MY LICENCE RENEWAL DATE IS DECEMBER 31, 20 25____ PAGES COVERED BY THIS SEAL: X______

DIRECTORY

PROJECT	MANAGER	CONSTRUCTION INSPECTOR				
COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES	COMPANY	IOWA DEPARTMENT OF NATURAL RESOURCES			
ADDRESS	6200 PARK AVE.	ADDRESS				
CITY,STATE,ZIP	DES MOINES, IA, 50321	CITY,STATE,ZIP				
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EMAIL	Mandi.Aldrich-Peters@dnr.iowa.gov	EMAIL	Zach.Gunsolley@dnr.iowa.gov			



PROJECT DESCRIPTION

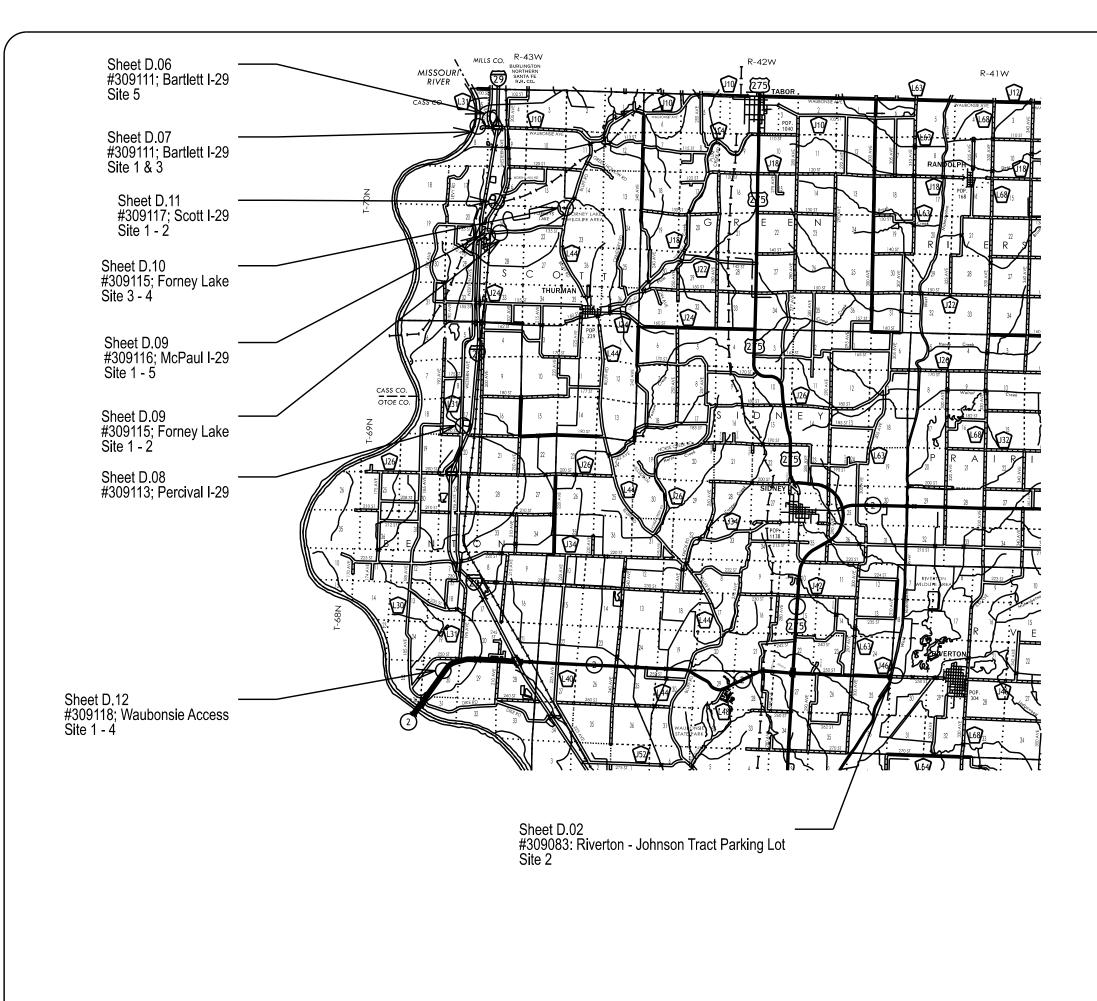
Removal of vegetation, blading and shaping to redaim roads and parking lots. Place earth fill and aggregate on various roads and parking lots to repair flood damage in the Nishnabotna Wildlife Unit.



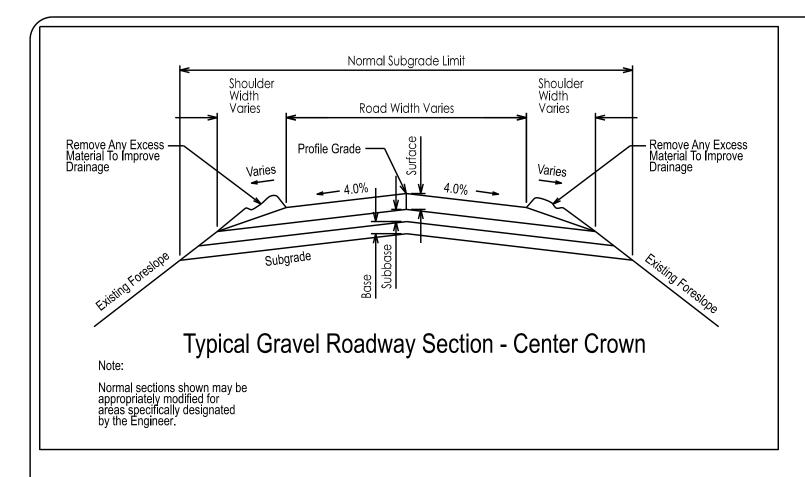
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\prod	ESTIMATED PROJECT QUANTITIES				estimate reference informati
ITEM NO.	ITEM	UNIT	TOTAL	ITEM NO	DESCRIPTION
1 0	309083 Riverton Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309083 Riverton Site 2) Aobilization (#309083 Riverton)	TON LS	<u>56</u> 1	110.	Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (All sites) Base Hauled and Placed, 1 1/2" Crushed Stone (All Sites) Subbase Hauled and Placed, 1 1/2" Crushed Stone (All Sites)
3 C 4 C 5 C	309111 Bartlett I-29 Granular Surfacing Hauled and Placed. 1 1/2" Crushed Stone (#309111 Bartlett I-29 Site 1) Granular Surfacing Hauled and Placed. 1 1/2" Crushed Stone (#309111 Bartlett I-29 Site 3) Granular Surfacing Hauled and Placed. 1 1/2" Crushed Stone (#309111 Bartlett I-29 Site 5) Mobilization (#309111 Bartlett I-29)	TON TON TON LS	28 56 140 1		Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (All sites) Base Hauled and Placed, 1 1/2" Crushed Stone (All Sites) Subbase Hauled and Placed, 1 1/2" Crushed Stone (All Sites) A. Removal of vegetative debris shall be incidental. B. Clearing and grubbing shall be incidental. C. Blading and shaping shall be incidental. D. Seeding and mulching shall be incidental. E. Final leveling of surface aggregate after being dumped is required. F. The quantity of materials specified will be measured as indicated in the contract G. Payment for material placed will be the contract unit price per ton.
7 0	309113 Percival I-29 Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309113 Percival I-29) Mobilization (#309113 Percival I-29)	TON LS	98		
#	309115 Forney Lake Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309115 Forney Lake Site 1) Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309115 Forney Lake Site 2)	TON			 Earthwork, Fill Hauled and Placed, Unclassified (All Sites) A. Borrow material shall be contractor furnished. B. All borrow or fill material must come from pre-existing stockpiles or commercia the event, March 12, 2019 (i.e. an existing quarry that has been licensed prior to
11 E 12 C 13 E	Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309115 Forney Lake Site 2) Base Hauled and Placed, 1 1/2" Crushed Stone (#309115 Forney Lake Site 2) Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309115 Forney Lake Site 3) Base Hauled and Placed, 1 1/2" Crushed Stone (#309115 Forney Lake Site 3) Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309115 Forney Lake Site 3)	TON TON TON TON TON	42 56 70 98 70		For any FEMA-funded project requiring the use of a non-commercial source or a prior to the event (e.g. a new pit, agricultural fields, road ROWs, etc.) in whole or FEMA and the Recipient prior to extracting material. FEMA must review the source environmental planning and historic preservation laws and executive orders prior
15 E 16 N	Andra Sun a Charles and Placed, 1 1/2" Crushed Stone (#309115 Forney Lake Site 4) Aobilization (#309115 Forney Lake) 309116 McPaul I-29	TON LS	98 1		receipt of federal funding.
17 C 18 E 19 C 20 E	Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309116 McPaul I-29 Site 1) Base Hauled and Placed, 1 1/2" Crushed Stone (#309116 McPaul I-29 Site 1) Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309116 McPaul I-29 Site 2) Base Hauled and Placed, 1 1/2" Crushed Stone (#309116 McPaul I-29 Site 2)	TON TON TON TON	182 280 14 14		 C. Place fill as directed by the DNR Inspector. D. Clearing and grubbing shall be incidental. E. Removal of vegetative debris shall be incidental. F. No payment for overhaul will be allowed. G. Seeding and fertilizing shall be incidental. H. Dimensions of fill areas shown are approximate from the FEMA Project Works
21 B 22 B	Base Hauled and Placed, 1 1/2" Crushed Stone (#309116 McPaul I-29 Site 3) Base Hauled and Placed, 1 1/2" Crushed Stone (#309116 McPaul I-29 Site 4) Subbase Hauled and Placed, 1 1/2" Crushed Stope (#309116 McPaul I-29 Site 2)	TON TON TON CY	14 28 14 18.6		G. Seeding and fertilizing shall be incidental. H. Dimensions of fill areas shown are approximate from the FEMA Project Works bidding.
27 N	arthwork, Fill Hauled and Placed, Unclassified (#309116 McPaul I-29 Site 2) Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309116 McPaul I-29 Site 5) Base Hauled and Placed, 1 1/2" Crushed Stone (#309116 McPaul I-29 Site 5) Mobilization (#309116 McPaul I-29)	TON TON LS	42 70 1		
28 C 29 E 30 C	309117 Scott I-29 Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309117 Scott I-29 Site 1) Base Hauled and Placed, 1 1/2" Crushed Stone (#309117 Scott I-29 Site 1) Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309117 Scott I-29 Site 2) Base Hauled and Placed, 1 1/2" Crushed Stone (#309117 Scott I-29 Site 2)	TON TON TON TON	266 406 14 14		seeding notes
32 C 33 E 34 N	Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309117 Scott I-29 Site 3) Base Hauled and Placed, 1 1/2" Crushed Stone (#309117 Scott I-29 Site 3) Abilization (#309117 Scott I-29)	TON TON LS	42 56 1	A. See	ll completion: d with a cover crop of winter (cereal) rye seeded at 2 bushels per acre immediately u r November 15, use the following dormant seeding mix: Smooth Brome 40 lbs/ac
25 0	309118 Waubonsie Access Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309118 Waubonsie Access Site 1) Base Hauled and Placed, 1 1/2" Crushed Stone (#309118 Waubonsie Access Site 1) Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309118 Waubonsie Access Site 2)	TON TON TON	14 14 42	0	Perennial Rye 16 lbs/ac Red Clover 24 lbs/ac.
38 E 39 C 40 E 41 C	Base Hauled and Placed, 1 1/2" Crushed Stone (#309118 Waubonsie Access Site 1) Branular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309118 Waubonsie Access Site 2) Base Hauled and Placed, 1 1/2" Crushed Stone (#309118 Waubonsie Access Site 2) Branular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309118 Waubonsie Access Site 2) Branular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309118 Waubonsie Access Site 3) Base Hauled and Placed, 1 1/2" Crushed Stone (#309118 Waubonsie Access Site 3) Branular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309118 Waubonsie Access Site 3) Branular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309118 Waubonsie Access Site 3) Branular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309118 Waubonsie Access Site 3) Branular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309118 Waubonsie Access Site 4) Branular Surfacing Hauled and Placed, 1 1/2" Crushed Stone (#309118 Waubonsie Access Site 4)	TON TON TON TON	70 42 56 14	A. See	er completion: d with a cover crop of oats seeded at 1 bushels per acre immediately upon completio d mix below to be planted between August 1 - September 30. Smooth Brome 66 lbs/ac Perennial Rye 6 lbs/ac
4Z E	Base Hauled and Placed, 1 1/2" Crushed Stone (#309118 Waubonsie Access Site 4) Nobilization (#309118 Waubonsie Access)	TON LS	1		Red Clover 4 lbs/ac
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	CONSULTANT:		
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rcially procured material from a source existing prior to r to the event). or a commercial source that was not permitted to operate e or in part, regardless of cost, the Applicant must notify purce for compliance with all applicable federal rior to a subrecipient or their contractor commencing on-compliance with this requirement may jeopardize	IOWA DEPARTMENT OF		711 31., DES MOINES, IA 30317-0034
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orksheet. It is the responsibility of the contractor to verify			
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y upon completion of earthwork. etion of earthwork.	QUANTITIES AND GENERAL INFORMA	2019 FLOOD DAMAGE REPAIRS FOR: NISHNABOTNA WILDLIFE UNIT	FREMONT C
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	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.
	Unless otherwise directed by the Plans, Specifications, or the DNR Engineer, all trees with a trunk diameter of three inches or greater when measured at breast height, shall be felled between October 1st and March 31st. Brush and debris removal is not restricted by this note.
	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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#309083: Riverton Site 2 Johnson Tract Parking Lot 40'x65' 3" of Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone



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#309111; Bartlett I-29 Site 5 Parking Lot 117'x65' 3" of Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone

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ALL.

Large rocks border the north side of parking lot. Clear and grub and remove vegetation to reclaim over grown parking lot, access road, and boat ramp.

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Missouri

River

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#309111; Bartlett I-29 Site 3 Parking Lot 80'x60' 2" of Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone

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#309111: Bartlett I-29 Site 1 Boat Ramp 135'x15' 2" of Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone

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0 200 FEET



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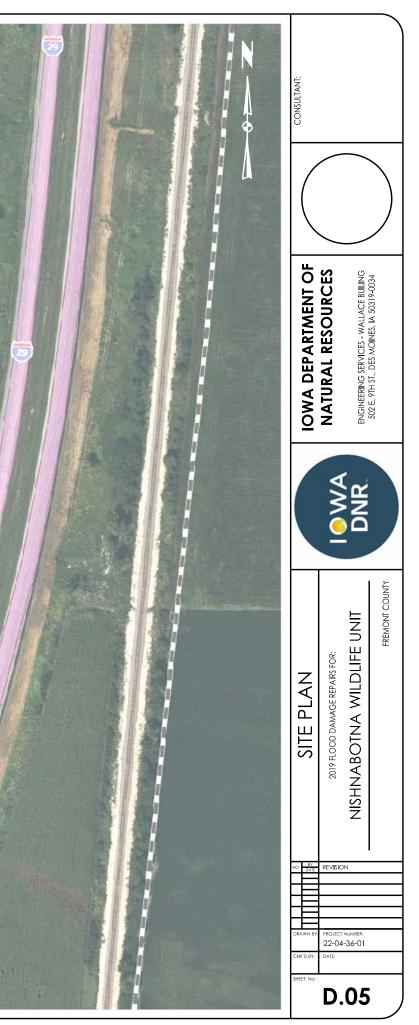
#309113; Percival I-29
 Parking Lot 66'x76'
 3" of Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone

Clear and grub and remove vegetation to reclaim over grown parking lot, access road, and boat ramp.

0 200 FEET

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#309115; Forney Lake Site 1 Access Road 90'x15' 2" of Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone 3" of Base Hauled and Placed, 1 1/2" Crushed Stone

Site 2 Parking Lot 100'x95' Partially Complete, Finish Remaining 3200 sf 2" of Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone 3" of Base Hauled and Placed, 1 1/2" Crushed Stone

Clear and grub and remove vegetation to reclaim over grown parking lot and access road.

#309116; McPaul I-29 Site 2 Scour Hole 100'x6' 2" Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone 3" Base Hauled and Placed, 1 1/2" Crushed Stone

#309116; McPaul I-29 Site 3 Scour Hole 18'x12' 3" Base Hauled and Placed, 1 1/2" Crushed Stone

#309116; McPaul I-29 Site 5 Parking Lot 70'x50' 2" of Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone 3" of Base Hauled and Placed, 1 1/2" Crushed Stone

Blade and shape. clear and grub and remove vegetation to reclaim over grown access road.

#309116; McPaul I-29 Site 1 Access Road 1342'x12' 2" of Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone 3" of Base Hauled and Placed, 1 1/2" Crushed Stone

Clear and grub and remove vegetation to reclaim over grown parking lot. Wood post at corener of lot.



#309116; McPaul I-29
Site 4 Scour Hole 60'x20'
3" of Base Hauled and Placed, 1 1/2" Crushed Stone
3" of Subbase Hauled and Placed, 1 1/2" Crushed Stone
10" of Earthwork, Fill Hauled and Placed, Unclassified

0 100 FEET

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#309115; Forney Lake Site 4 Access Road382'x15' 2" of Granular Surfacing Hauled and Placed, 1 1/2 3" of Base Hauled and Placed, 1 1/2" Crushed St

Blade and shape, clear and grub, and remove ve

#309115; Forney Lake Site 3 Parking Lot 96'x54' 2" of Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone 3" of Base Hauled and Placed, 1 1/2" Crushed Stone

Clear and grub and remove vegetation to reclaim over grown parking lot.

0 200 FEET

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	CONSULTANT:			
	IOWA DEPARTMENT OF	NATURAL RESOURCES	ENGINEERING SERVICES - WALLACE BUILING	902 E. YITI 91,, DE9 MOINES, IA 903 17-0034
/2" Crushed Stone tone egetation to reclaim over grown access road.		I OWA	DNR	
	SITE PLAN	2019 FLOOD DAMAGE REPAIRS FOR:	NISHNABOTNA WILDLIFE UNIT	FREMONT COUNTY
	NO. BY DATE DATE DRAWN BY: CHKD BY: SHEET NO:	PROJECT I 22-04- DATE:	NUMBER:	

#309117; Scott I-29 Site 2 Boat Ramp 30'x18' 2" of Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone 3" of Base Hauled and Placed, 1 1/2" Crushed Stone

Site 3 Parking Lot 40'x75' 2" of Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone 3" of Base Hauled and Placed, 1 1/2" Crushed Stone

#309117; Scott I-29 Site 1 Access Road 1390'x17' 2" of Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone 3" of Base Hauled and Placed, 1 1/2" Crushed Stone

Blade and shape, clear and grub, and remove vegetation to reclaim over grown access road.

200 0 FEET



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#309118; Waubonsie Access Site 1 Access Road 50'x15' 2" of Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone 3" of Base Hauled and Placed, 1 1/2" Crushed Stone

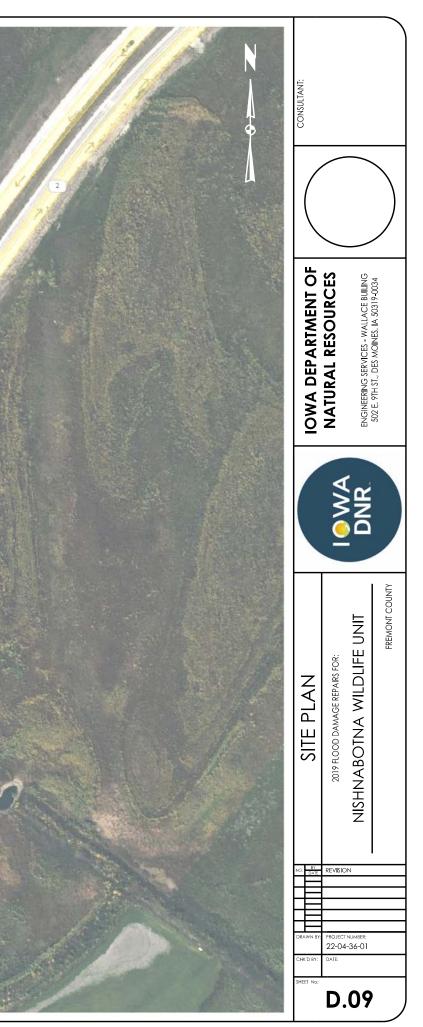
Site 2 Scour Hole 70'x50' 2" of Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone 3" of Base Hauled and Placed, 1 1/2" Crushed Stone

Site 3 Parking Lot 100'x30' 2" of Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone 3" of Base Hauled and Placed, 1 1/2" Crushed Stone

Site 4 Boat Ramp 60'x18' 2" of Granular Surfacing Hauled and Placed, 1 1/2" Crushed Stone 3" of Base Hauled and Placed, 1 1/2" Crushed Stone

Clear and grub and remove vegetation to reclaim over grown parking lot, access road, and boat ramp.

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