6349 Z1
ATTACHMENT A

NEBRASKA
– GAME PARKS –

ROAD & BOAT REPAIRS
BUFFLEHEAD WILDLIFE MANAGEMENT AREA

- **Damage to Boat ramp/ access road and parking lot @ Bufflehead WMA**

General Facility Information:

- Location Description: 5052-5168 Pony Lake Road Kearney NE 68847
- GPS Latitude/Longitude: 40.67043, -99.01827

Facility Damage:

- Fill , 3,888 CY of Access Road and Parking lot Fill, 300 FT long x 50 FT wide x 7 FT deep.
- Gravel, 373 CY of Access Road and Parking lot Base Course (2 inch– 3 inch), 300 FT long x 50 FT wide x 0.67 FT deep.
- Gravel 185 CY of Access Road and Parking lot Surface (3/4 inch – 1 inch), 300 FT long x 50 FT wide x 0.333 FT deep.
- Boat Ramp, 1,297 CY of Sand Deposit (Debris), 123 FT long x 33 FT wide x 8 FT deep.
- Boat Ramp, 16 CY of Concrete, 25 FT long x 20 FT wide x 0.83 FT deep.

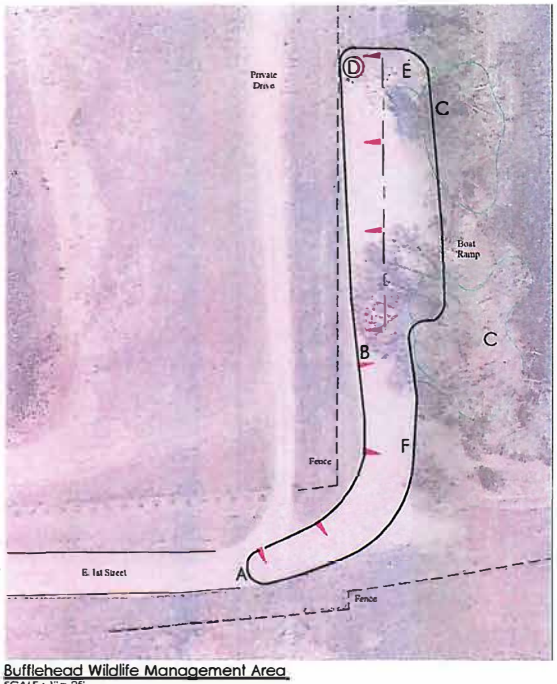
Base Bid Repair Scope:

- Repair damage noted above and return site to pre flood existing conditions. This includes the removal of the existing boat ramp prior to the installation of the new ramp. Note: NGPC will provide the concrete pattern for the surface texture needed on the new poured boat ramp. New ramp shall use the pour and push technique.

Add Alternate Scope Improvements:

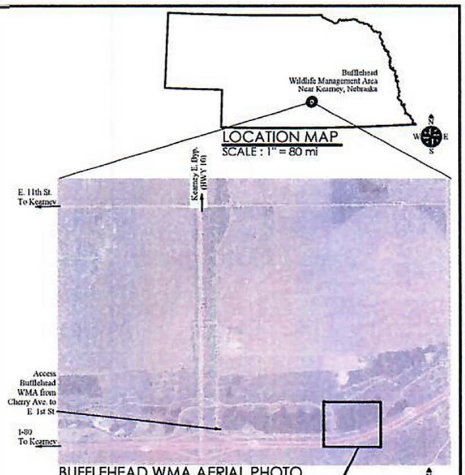
- Raise Access Road starting to slope up at E. 1st St. (Elevation 2115.5') rising along 100 feet of the Access Road to an elevation of 2117.5 at Point F.
- Continue the Access Road sloping as needed to the Parking Lot at an elevation of 2119.5' which is 2' above the existing grade at location E on the plan (2117.5'). Provide slopes needed to access the boat ramp at the same slope as the ramp. Slope at least half of the parking lot to the West at 1.1% slope.
- The Access Road and Parking lot sides to be built at a maximum allowable side slope of 3:1, with a preferred side slope of 4:1. Provide 1% slope on road to the East & SE for drainage as indicated between A & B.
- Calculated approximately 13273 sq.ft. area of 755 feet of outlined access road and parking area. Estimated an average of 3' fill in the area with 4:1 side slopes for 1980 C.Y.
- Provide tree removal at the areas of trees noted at C and on Sheet 2 photos.
- Obtain the boat ramp concrete pattern stamp from NGPC prior to the boat ramp concrete pour. Use the method of pour and push for the new boat ramp.
- At location of the Path at Drainage, provide a new drainage swale, using the soil removal to build up the road and parking area. Swale shall be gradual with a minimum 4' flat bottom width and 3:1 sloped sides maximum but no more than 4:1. Develop a drainage slope for the entire distance along path shown without low portions that hold water.
- Remove the pile of rubble from washed out boat ramp at location D.

See Photos Sheet 2.



Bufflehead Wildlife Management Area
SCALE : 1" = 25'

Scale : 1" = 25'
0' 12.5' 25' 37.5' 50' 75' 100'
0" 1/4" 1/2" 3/4" 1" 1 1/2" 2" 2 1/2" 3" 3 1/2" 4"
Original 24"×36"



LOCATION MAP
SCALE : 1" = 80 mi

BUFFLEHEAD WMA AERIAL PHOTO
SCALE : 1" = 1000'

Scale : 1" = 1000'
0' 500' 1000' 1500' 2000' 2500' 3000' 3500' 4000'
0" 1/4" 1/2" 3/4" 1" 1 1/2" 2" 2 1/2" 3" 3 1/2" 4"
Original 24"×36"

Bufflehead Wildlife Management Area
SCALE : 1" = 200'

Scale : 1" = 200'
0' 100' 200' 300' 400' 500' 600' 700' 800'
0" 1/4" 1/2" 3/4" 1" 1 1/2" 2" 2 1/2" 3" 3 1/2" 4"
Original 24"×36"

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APPROVED	NEBRASKA GAME AND PARKS COMMISSION	ENGINEERING DIVISION
Signed drawings are available on file. DEPUTY DIRECTOR DATE	SHEET NUMBER 1 OF 2	PROJECT: Road & Boat Ramp Repairs
Signed drawings are available on file. DIVISION ADMINISTRATOR DATE		LOCATION: Bufflehead Wildlife Management Area PR: 20-141
		DRAWING CONTAINS: - Location Map, Park Aerial Photo, Bufflehead Plan with Scope notes
		DESIGN/DRAWN BY: A M D DATE: April 16, 2020