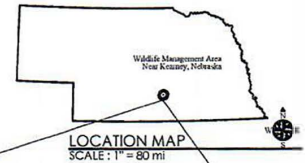
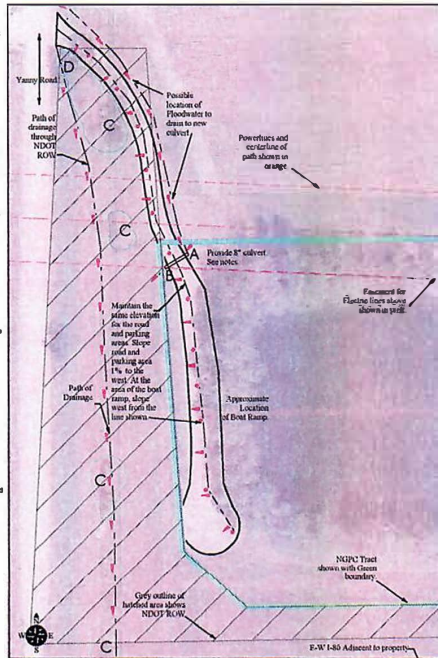


6480 Z1
ATTACHMENT A

NEBRASKA
- GAME & PARKS -
ROAD & BOAT REPAIRS
KEA WEST WILDLIFE MANAGEMENT AREA



- Damage: Boat ramp, access road and parking lot @ Kea West WMA
- General Facility Information for Nebraska Game and Parks Commission (NGPC) property:
 - Location Description: 301+331 Kea West Avenue S Kearney, NE 68845
 - Start GPS Latitude/Longitude: 40.67288, -99.10841
 - End GPS Latitude/Longitude: 40.67106, -99.10880
- Facility Damage:
 - Boat Ramp, 18 CY of Concrete, 25 FT long x 20 FT wide x 0.83 FT deep.
 - Boat Ramp, 75 CY of Sand Gravel (Native), 25 FT long x 20 FT wide x 4 FT deep.
 - Surface, 250 CY of Access Road and Parking lot Surface (3-4 inch angular), 675 FT long x 30 FT wide x 0.333 FT deep.
 - Gravel Base, 503 CY of Access Road and Parking lot Surface (3/4 inch - 1 inch), 675 FT long x 30 FT wide x 0.833 FT deep.
 - Fill, 6,500 CY of Access Road and Parking lot, 675 FT long x 30 FT wide x 6 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 forms for the surface features needed on the new poured boat ramp. New ramp shall use the pour and push technique.
- Add Alternate Scope to Improve Site:
 - Raise the Access Road starting 10 feet up at Yarny Road (Elev. 2103) rising along 30 feet of Access Road with a gradual slope up 3' above the gravel road (to Elev. 2144). Continue road at same elevation with a 1% cross slope to the west for the entire Access Road and Parking area.
 - After the extreme flood, debris was seen on the north side of the access road. Provide an 8' curved off to the S at elevation 2150. Side slope and around the culvert to be clay with proper compaction.
 - At the access to the boat ramp, begin along portions of road at the same slope on the ramp to the new ramp maintaining the west portion of the access road at the elevation 2154 with a 1% slope to the west as shown on plan of boat ramp location.
 - The Access Road and Parking lot shall be built at a maximum allowable side slope of 3:1, with a preferred side slope of 4:1.
 - Calculated approximately 15,344 sq. ft. access road and parking area and 1384 ft. of outlined area. Estimated 2' of fill at 2500 C.Y. considering the volume of a 4:1 side slope.
 - Provide base removal at the areas of base noted at C unless forbidden by the NGPC BOP.
 - Obtain the boat ramp concrete bottom slope from NGPC prior to the boat ramp concrete pour. Ramp to be 6% with the pour and push method.
 - Do the lowering of stream by NGPC stone. Locate a path for drainage as noted. Provide the drainage area, using the said removed to build up the road. The grade shall be graded with a minimum 8' feet bottom width and 3:1 sloped sides maximum with rise if possible. Develop a drainage area with proper slope for the entire area west of the access and parking area without low portions that hold water.
 - At location D remove concrete turner item (See photo B, Sheet 2).



Kea West Wildlife Management Area
SCALE: 1" = 50'



Kea West WMA AERIAL PHOTO
SCALE: 1" = 1000'



INDEX OF DRAWINGS	
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Area of Work Location Aerial	1
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Survey Aerial Map	1
Survey for New Work	1
Site Photos	1
Plan Key Plan	1

APPROVED		NEBRASKA GAME AND PARKS COMMISSION		ENGINEERING DIVISION
Signature of Deputy Director for	DATE	SHEET NUMBER	PROJECT: Road & Boat Ramp Repairs	
Signature of Division Administrator	DATE	1	LOCATION: Kea West Wildlife Management Area	
		or 2	DRAWING CONTAINS: NE Location Map, Area of Work Location Aerial Photo, Kea WMA Survey Plan, Notes for New Work	
			DESIGNED BY: B.V. A.M.D. DATE: April 16, 2020	