

# Converting Pits and Marginal Crop Ground into a Wetland: Nick and Ryan Happold



2024 RWBJV Info Seminar

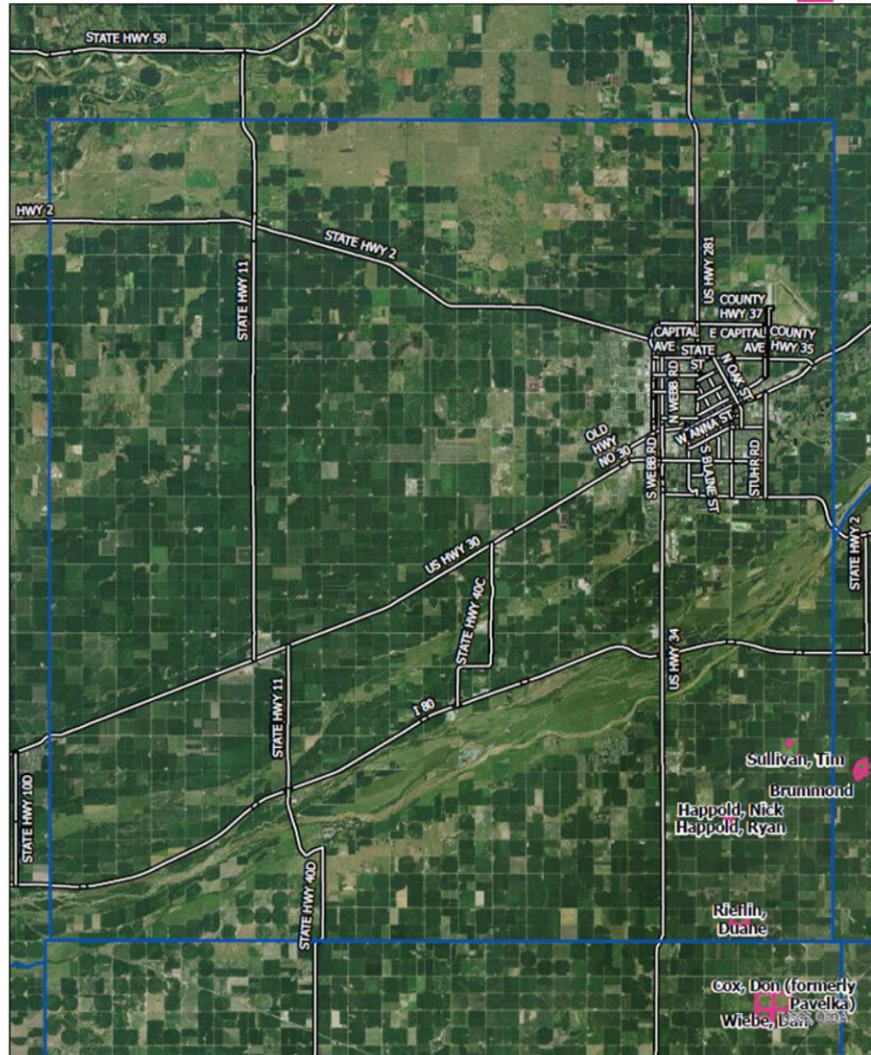
March 14th, 2024

Cortney Schaefer

Former Wetland Habitat Specialist

# Intro to the Site

## Hall County



## Happold Easements

Section 16, Township 9, Range 9 West  
Hall County





# Intro to the Site

- Area comprised of row crops around a very large irrigation reuse pit with mature trees.
- Nick and Ryan submitted enrollment application for NRCS WREP in 2019.
- Easement closed in Spring 2021.
- Work began in August 2021.

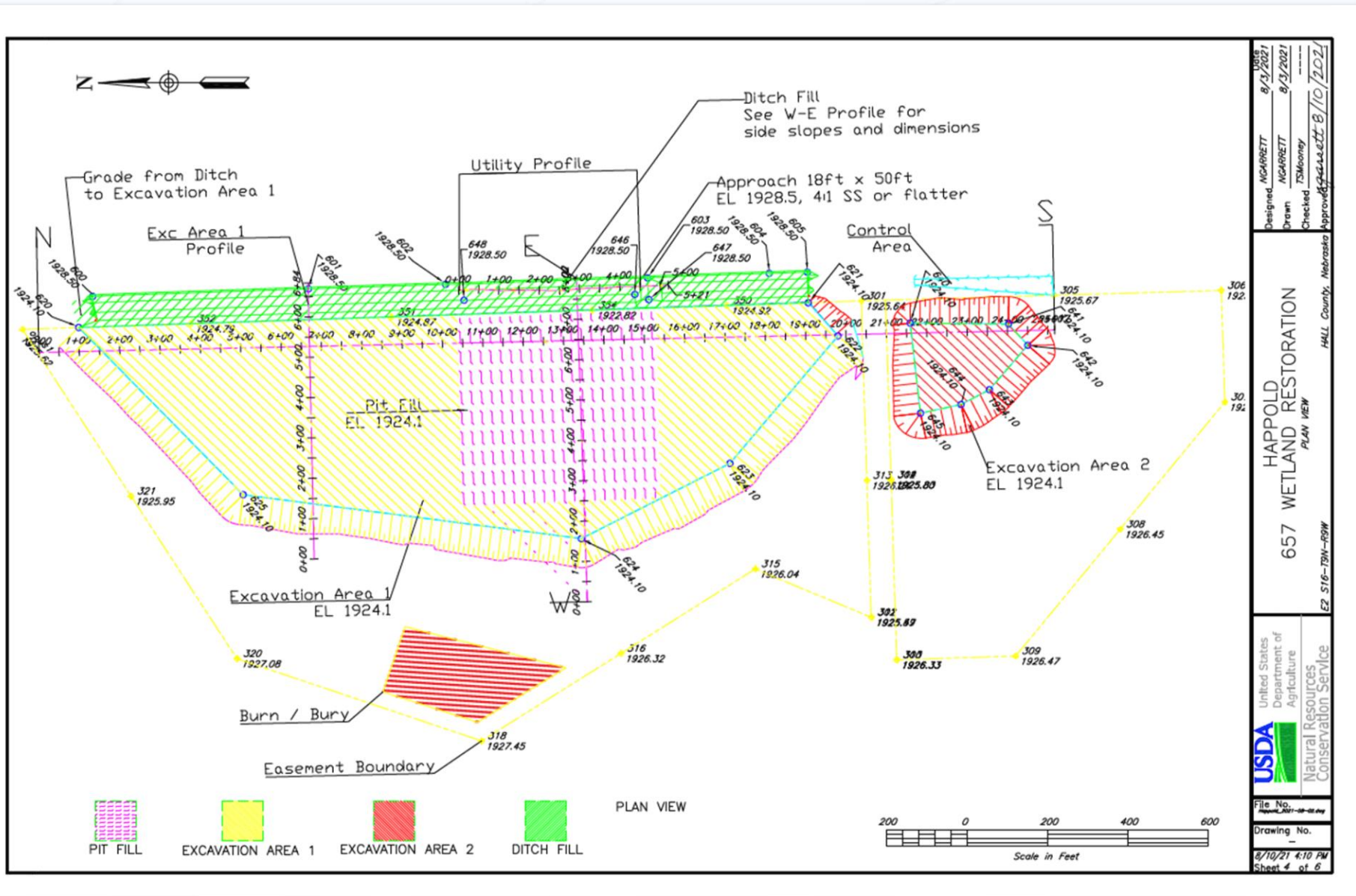




# Project Timeline

- 2019 – WREP Application Submitted
- Spring 2021 – Easement Closed
- August/September 2021 – Disking
- November 2021 – Wetland Restoration/Ditch Fill
- December 2021 – Perimeter Fence
- March 2022 – Flight Diverters
- April 2022 – Upland Seeding
- June 2022
  - Pivot Modifications (Nick)/Prescription Irrigation
  - Solar Well/Tank
  - New Center Pivot (Ryan)/Prescription Irrigation
- March 2023 – Low-Compression Tires on additional pivot tower

# Wetland Restoration/Ditch Fill



United States Department of Agriculture <b>USDA</b> Natural Resources Conservation Service	<b>HAPPOLD</b> <b>657 WETLAND RESTORATION</b> PLAN VIEW	DESIGNED: NGARRETT DRAWN: NGARRETT CHECKED: TSMooney APPROVED: [Signature] DATE: 8/3/2021
File No. Drawing No. 8/10/21 4:10 PM Sheet 4 of 6	HALL County, Nebraska E2 S16-T9W-R9W	1016 8/3/2021



# Wetland Restoration/Ditch Fill







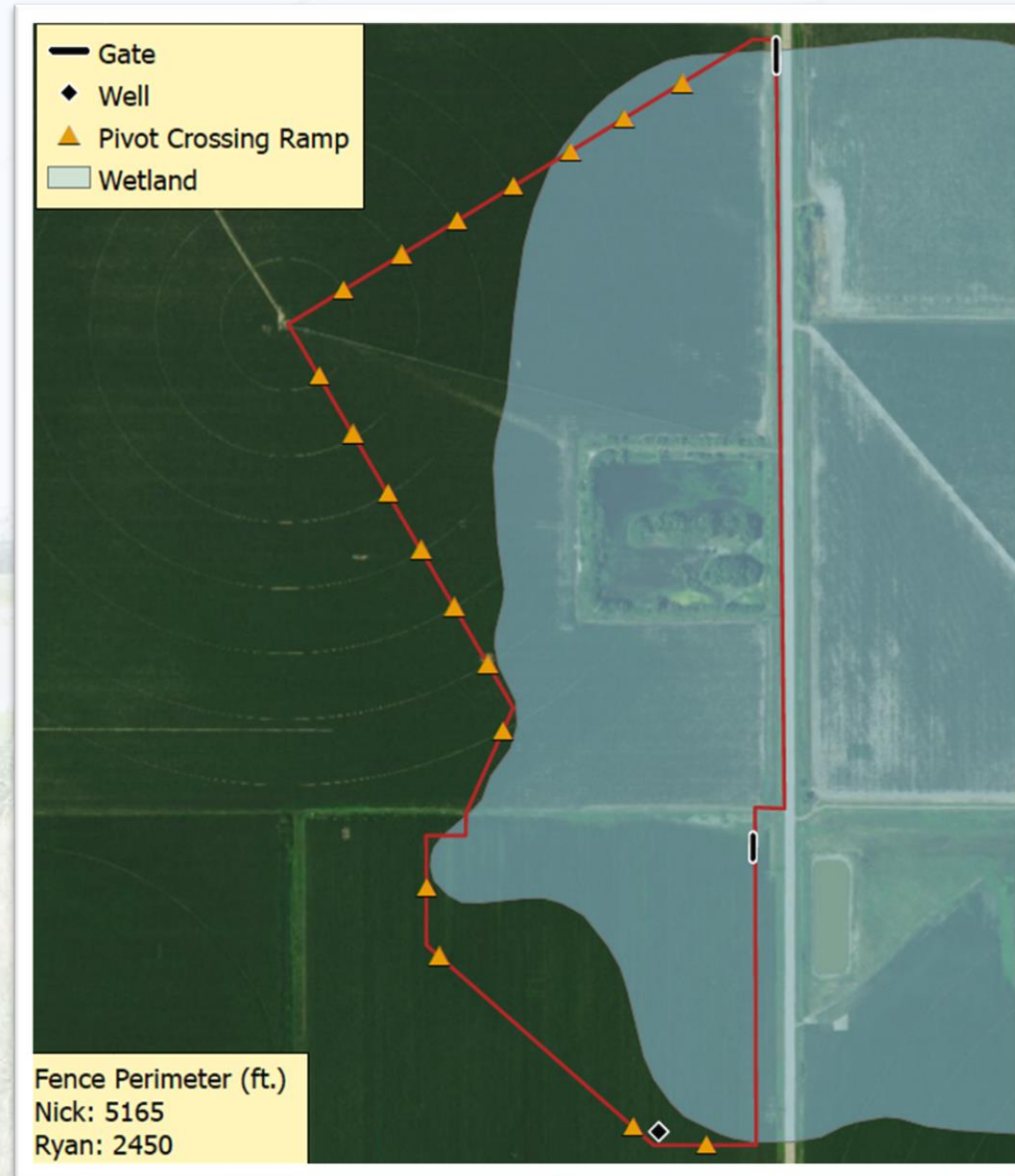


# Wetland Restoration/Ditch Fill





# Perimeter Fence & Livestock Watering Tank









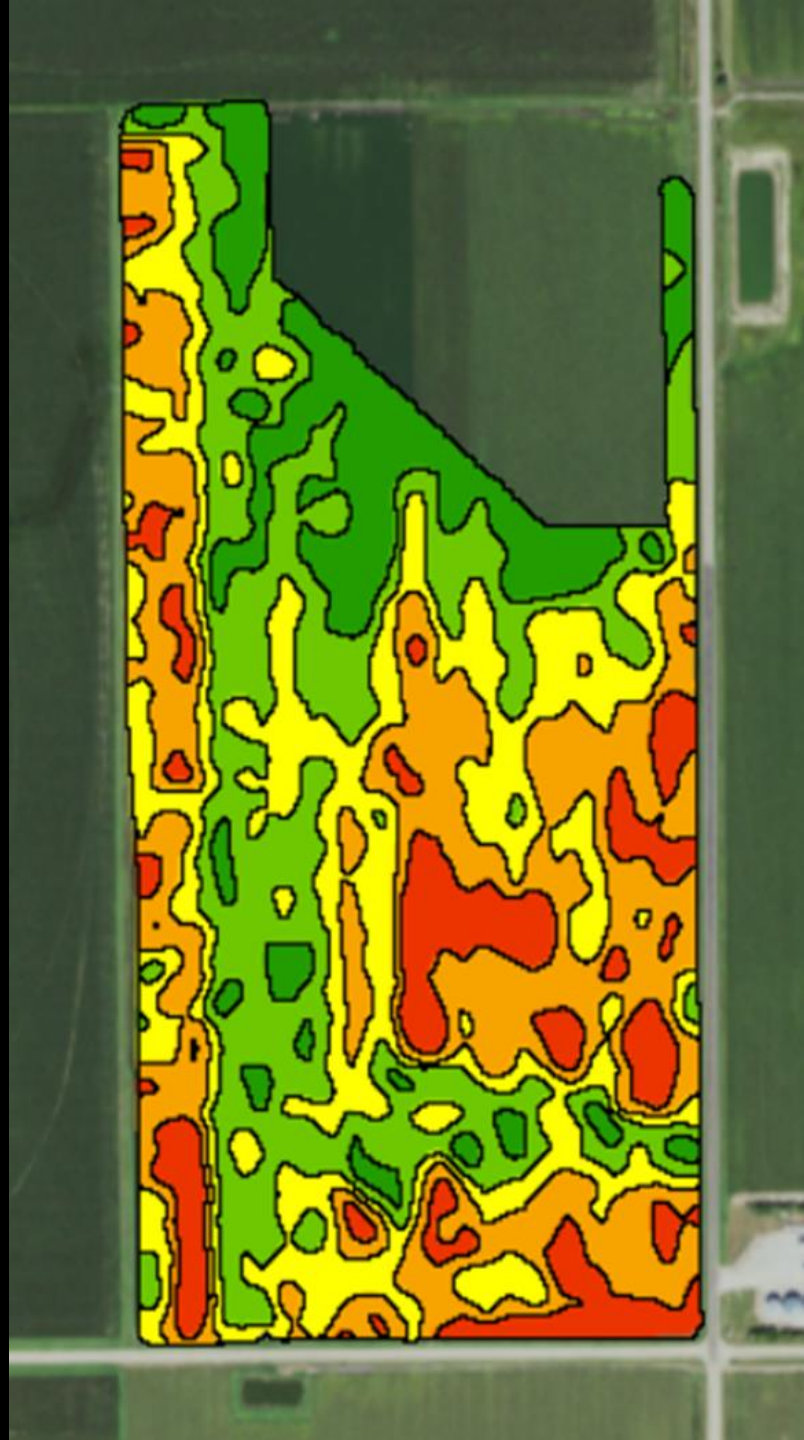
# Pivot Modifications











BOUNDARY LAYERS:

- Soils
- Crops
- Irrigation
- Disease

42° ET 0.02

1 - Pivot

S Locust St  
8  
S Locust St  
7



Image Layers: None Machine Data

Start	Stop	Area (acre)	Application Depth (in)	Speed (%)
0°	15°	5.2	0.97	31.5
15°	30°	5.2	0.69	43.63
30°	45°	5.2	0.65	46.02
45°	60°	5.2	0.75	40.83
60°	75°	5.2	0.79	38.65
75°	90°	5.2	1.04	28.77
90°	105°	5.2	1.09	27.41
105°	120°	5.2	1.12	26.87
120°	135°	5.2	1.1	27.14
135°	150°	5.2	0.95	31.9
150°	165°	5.2	0.92	32.83
165°	179°	5.2	1.03	30.11

# Thank You!

Please join us for a Private Landowner Panel from 1:30 – 1:55pm.  
Nick Happold and Ryan Happold will be present to comment and/or answer questions.

