

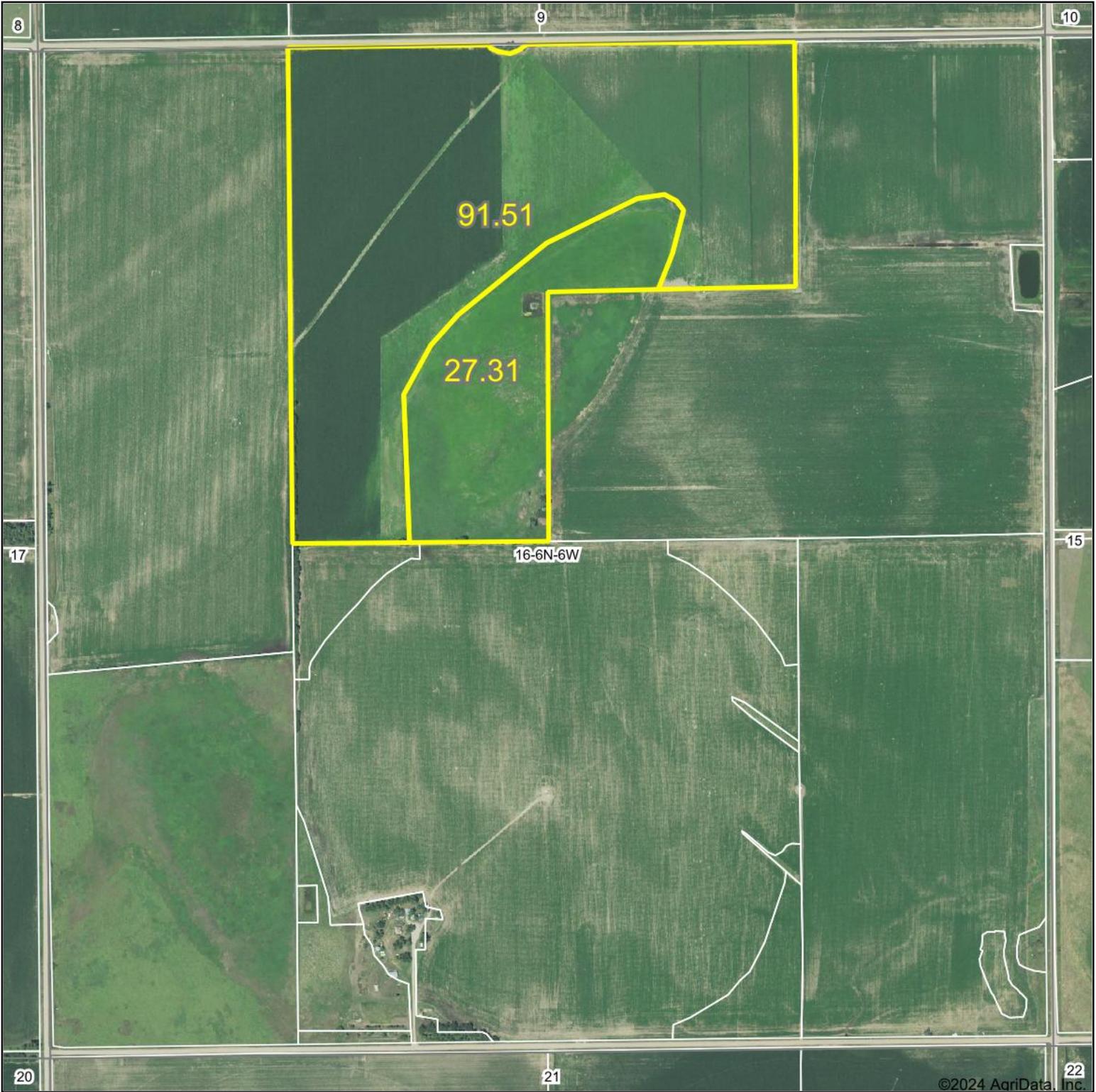
FSA, DIRT WORK AND WELL PACKET



A DIVISION OF WHITETAIL
PROPERTIES REAL ESTATE, LLC

RANCHANDFARMAUCTIONS.COM

Aerial Map



Boundary Center: 40.491923, -98.004485



WHITETAIL PROPERTIES REAL ESTATE
HUNTING | RANCH | FARM | TIMBER

Maps Provided By:

surety[®]
CUSTOMIZED ONLINE MAPPING

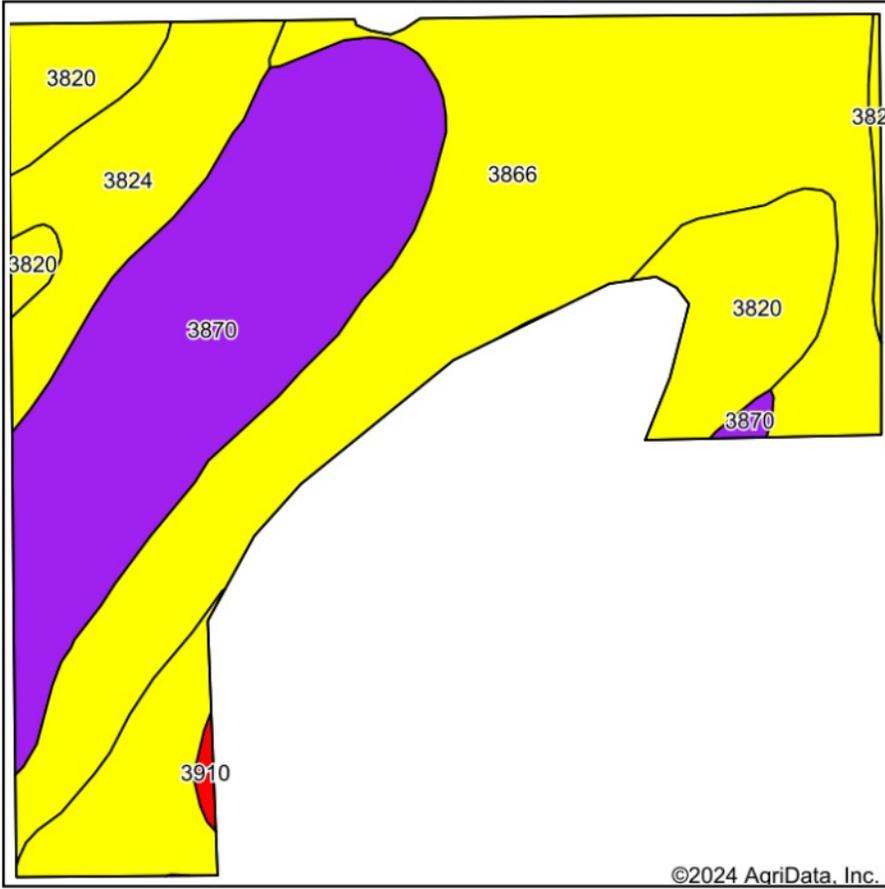
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16-6N-6W
Clay County
Nebraska

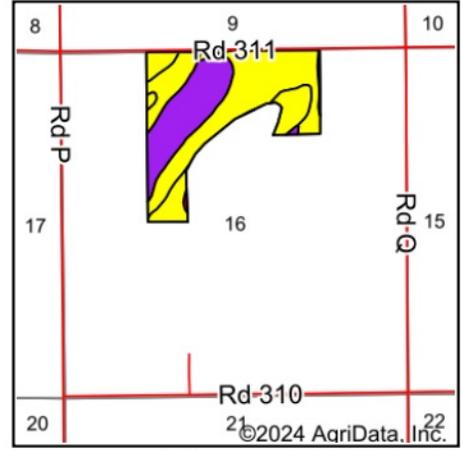


10/25/2024

Soils Map



Soils data provided by USDA and NRCS.



State: **Nebraska**
 County: **Clay**
 Location: **16-6N-6W**
 Township: **Marshall**
 Acres: **91.51**
 Date: **10/30/2024**



WHITETAIL PROPERTIES REAL ESTATE
 HUNTING | RANCH | FARM | TIMBER

Maps Provided By:

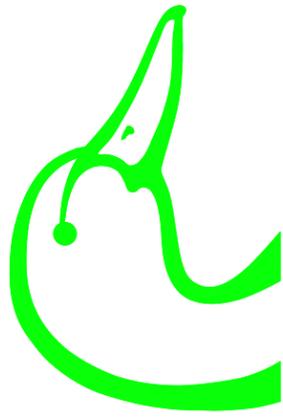


Area Symbol: NE035, Soil Area Version: 25

Code	Soil Description	Acres	Percent of field	NCCPI Overall Legend	*n NCCPI Overall	*n NCCPI Corn	*n NCCPI Small Grains	*n NCCPI Soybeans
3866	Hastings silt loam, 1 to 3 percent slopes	39.13	42.8%		67	62	62	67
3870	Hastings silty clay loam, 3 to 7 percent slopes, eroded	26.42	28.9%		58	57	57	58
3820	Butler silt loam, 0 to 1 percent slopes	16.13	17.6%		68	59	59	68
3824	Crete silt loam, 0 to 1 percent slopes	9.52	10.4%		63	57	60	63
3910	Scott silt loam, frequently ponded	0.31	0.3%		30	27	29	24
Weighted Average					*n 64	*n 59.4	*n 59.7	*n 64

*n: The aggregation method is "Weighted Average using all components"

Soils data provided by USDA and NRCS.



DUCKS UNLIMITED

DUCKS UNLIMITED PROJECT

GOTTEL EXCAVATION

LOCATED IN THE N $\frac{1}{2}$ OF SECTION 16
TOWNSHIP 6N, RANGE 6W, 6TH P.M.
CLAY COUNTY, NEBRASKA

IN COOPERATION WITH

NRCS, NAWCA, NET

SPECIFICATIONS

- 101 GENERAL CONDITIONS
- 102 SUPPLEMENTAL CONDITIONS
- 201 MOBILIZATION
- 202 SITE PREPARATION
- 203 EXCAVATION

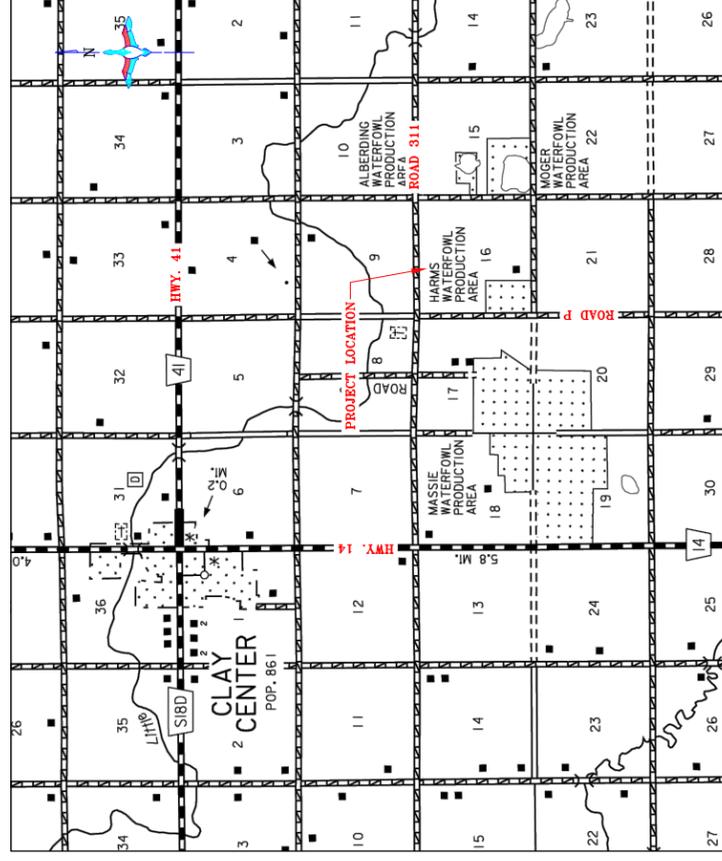
PLAN INDEX

- 1 LOCATION & VICINITY MAPS
- 2 OVERALL PLAN
- 3 NORTH AREA
- 4 SOUTH AREA

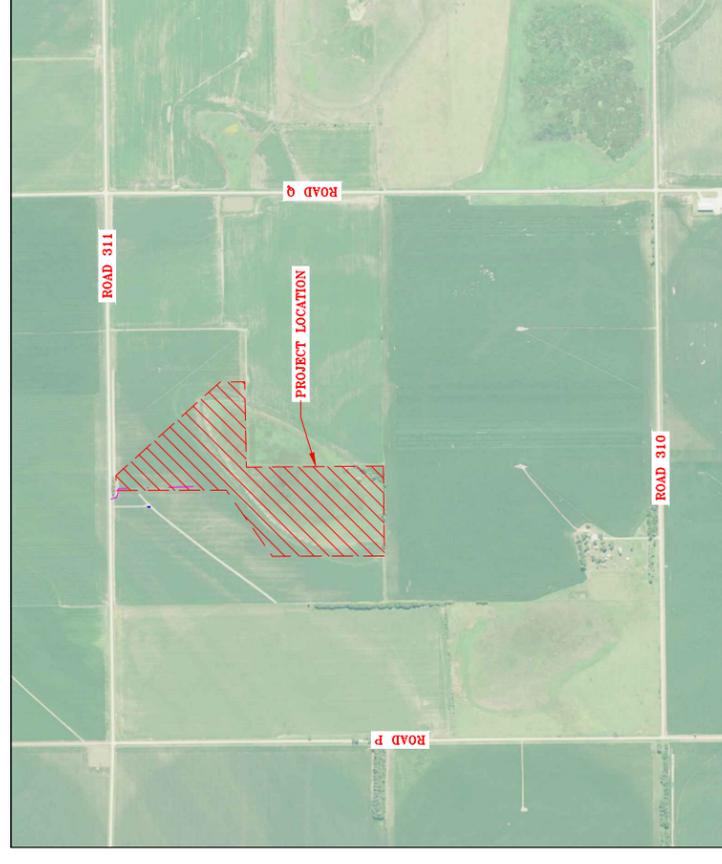
ESTIMATED QUANTITIES

MOBILIZATION	1 L.S.
SITE PREPARATION	15 AC.
HUNTING BLIND REMOVAL EXCAVATION	1 EA.
NORTH EXCAVATION	3,830 C.Y.-P*
SOUTH EXCAVATION	2,880 C.Y.-P*
TOTAL	6,710 C.Y.-P*

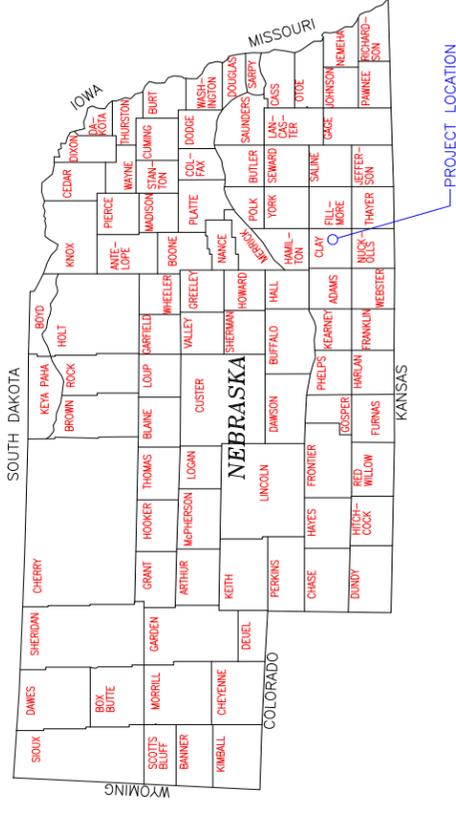
*THE UNIT (CY-P) CUBIC YARDS-PLAN MEANS PAYMENT WILL BE BASED ON THE PLAN QUANTITY LISTED ABOVE.



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



DU REGIONAL ENGINEER:
CASEY CAMPBELL, P.E.
2121 N WEBB RD., SUITE 309
GRAND ISLAND, NE 68803
(308) 385-8832

NRCS TSP CERTIFICATION:
TO THE BEST OF MY PROFESSIONAL KNOWLEDGE,
JUDGEMENT, AND BELIEF, THESE PLANS MEET
APPLICABLE NRCS STANDARDS.

UTILITIES NOTE: BEFORE THE START OF CONSTRUCTION, THE OWNER OF ANY UTILITIES INVOLVED MUST BE NOTIFIED. THE EXCAVATOR/CONTRACTOR IS RESPONSIBLE FOR GIVING THIS NOTICE BY CALLING "DIGGER'S HOTLINE" AT (800) 331-5666 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.

CASEY CAMPBELL, P.E.

K:\Land Projects\NE-344-1 Godtel Tract\Final\NE-344-1 GodtelTract Earthwork.dwg

DUCKS UNLIMITED INC.
GREAT PLANS REGIONAL OFFICE

PROJECT NO. NE-344-1
GOTTEL EXCAVATION

DESIGNED BY: GDC
DRAWN BY: GDC
SURVEYED BY: GDC
CHECKED BY: BAC

DATE: 8/12/2022
SHEET NO. 1 OF 4
APPROVED BY:

ALL WRITTEN SCALES ARE ACCURATE ON 24x36 INCH SHEETS



SEEDING AND MULCHING NOTE: THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN ADEQUATE SEED BED TO ALLOW SEEDING WITH STANDARD SEEDING EQUIPMENT. THIS WILL INCLUDE USE OF A HARROW OR OTHER MEANS IN ORDER TO LEAVE A SMOOTH, TRACK-FREE FINISH. BACK DRAGGING WITH A DOZER IS NOT AN ACCEPTABLE FINISH.

ABBREVIATIONS LIST

- BP = BEGINNING POINT
- BRK = BRCAK
- BTM = BOTTOM LINE
- CHP = CORRUGATED METAL PIPE ROUND
- CTR = CENTER
- DIA. = DIAMETER
- E = EASTING COORDINATE OR EAST
- EMB. = EMBANKMENT
- ELEV. = ELEVATION
- EP = END POINT
- EX = EXISTING
- FX = FENCE
- INV = INVERT
- LAT = LATITUDE (WGS84)
- LONG = LONGITUDE (WGS84)
- L.F. = LINEAR FEET
- MISC = MISCELLANEOUS
- N = NORTHING COORDINATE OR NORTH
- N.P. = NORTH POINT
- P.C. = POINT OF CURVE
- P.I. = POINT OF INTERSECTION
- P.T. = POINT OF TANGENCY
- RCP = REINFORCED CONCRETE PIPE
- RD = ROAD
- REM. = REMOVE
- REQD = REQUIRED
- SLOPE = SLOPE
- TEMP = TEMPORARY BENCHMARK
- W = WEST OR WITH

*NOTE: NOT ALL ABBREVIATIONS IN THIS LIST APPEAR ON THIS SHEET

OVERALL PLAN VIEW
SCALE 1" = 150'

- GENERAL NOTES**
- ONE HALF FOOT CONTOUR INTERVAL SHOWN.
 - 2018 1 METER RESOLUTION AERIAL IMAGERY IS SHOWN.
 - ITALICIZED TEXT DENOTES EXISTING FEATURE OR EXISTING ELEVATION. BASED ON SURFACE MODEL ELEVATIONS.
 - THIS MATERIAL DATA AND INFORMATION IS THE PROPERTY OF DUCKS UNLIMITED, INC. IT MAY NOT BE USED OR REPRODUCED FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF AN AUTHORIZED AGENT OF DUCKS UNLIMITED, INC. DUCKS UNLIMITED, INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND REGARDING THIS MATERIAL DATA AND INFORMATION, INCLUDING, BUT NOT LIMITED TO, THE ACCURACY OF THE MATERIAL DATA AND INFORMATION OR ITS SUITABILITY FOR ANY PURPOSE. ALL USE OF THIS MATERIAL DATA AND INFORMATION IS AT THE USER'S SOLE RISK. BY USING ANY OF THIS MATERIAL DATA AND INFORMATION, THE USER AGREES THAT DUCKS UNLIMITED, INC. IS NOT RESPONSIBLE FOR THEIR USE OF THE MATERIAL DATA AND INFORMATION OR THE RESULTS THEREOF.

HORIZONTAL AND VERTICAL CONTROL OPUS SOLUTION— COORDINATES ARE UTM ZONE 14 GRID COORDINATES IN US FEET (NAVD83). THEY WERE ESTABLISHED FROM THE WGS84 DATUM AND WERE ADJUSTED TO THE NAVD83 DATUM BY THE SURVEYING DEPARTMENT IN JANUARY 8, 2020 AT DUCKS UNLIMITED CONTROL POINT DU-300-20 AND CALIBRATED TO AN OPUS POSITION OCCUPIED FOR 2 HOURS AND 3 MINUTES) AND SENT TO NGS FOR SOLUTION. THE VERTICAL CONTROL CAME FROM THE SAME SOLUTION USING GEOID 18 CONUS IN THE NAVD88. THE FULL OPUS SOLUTION REPORT IS ON FILE AT THE DUCKS UNLIMITED ENGINEERING DEPARTMENT IN GRAND ISLAND, NEBRASKA.

DUCKS UNLIMITED INC.
GREAT PLANS REGIONAL OFFICE

PROJECT NO. NE-344-1
GODTEL EXCAVATION

DESIGNED BY: CDC
DRAWN BY: GDC
SURVEYED BY: CDC
CHECKED BY: BAC
APPROVED BY:

SHEET NO. 2 OF 4
DATE: 8/12/2022

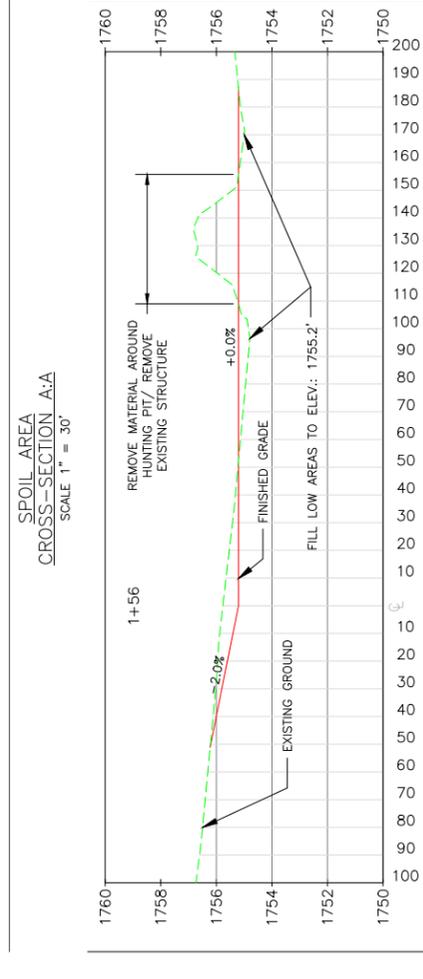
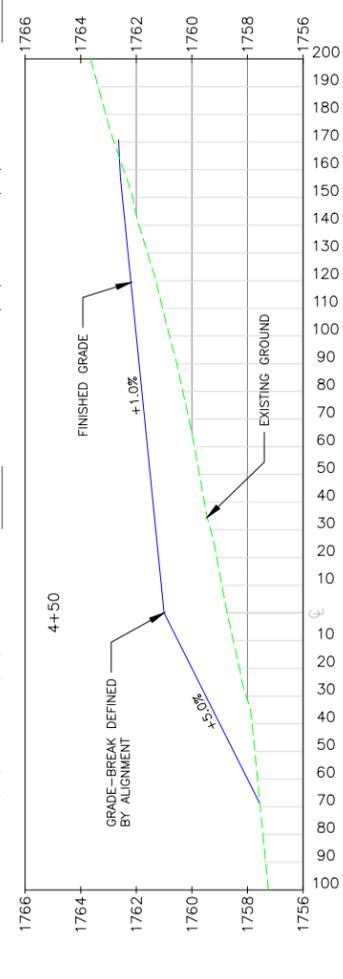
K:\Land Projects\NE-344-1 Godtel Tract\Tract\Final\NE-344-1 GodtelTract Earthwork.dwg

- CONSTRUCTION NOTES:**
- CLEARING AND GRUBBING OF EXCAVATION AREAS ARE NOT REQUIRED.
 - REMOVAL, STOCKPILING, AND RESPREADING OF TOPSOIL WITHIN THE EXCAVATION AND SPOIL AREA IS NOT REQUIRED.
 - ENGINEER WILL PROVIDE STAKING FOR THE BOTTOM TOE OF THE EXCAVATION AREAS AND TOP SHOULDER OF THE SPOIL AREA. ADDITIONAL VERTICAL CONTROL POINTS WILL BE SET UPON REQUEST.
 - DEBRIS ASSOCIATED WITH THE REMOVAL OF THE HUNTING BLIND (PIT) SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE. THIS SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "HUNTING BLIND REMOVAL".
 - HAUL ROUTES BETWEEN THE EXCAVATION AREAS AND THE SPOIL AREA SHALL BE DETERMINED BY THE CONTRACTOR. COMPLETE ROUTES SHALL BE PRODUCED FOR EXCAVATION AREAS, SPOIL AREA, AND HAUL ROUTES SHALL BE DISKED. SEE SEEDING AND MULCHING NOTE.

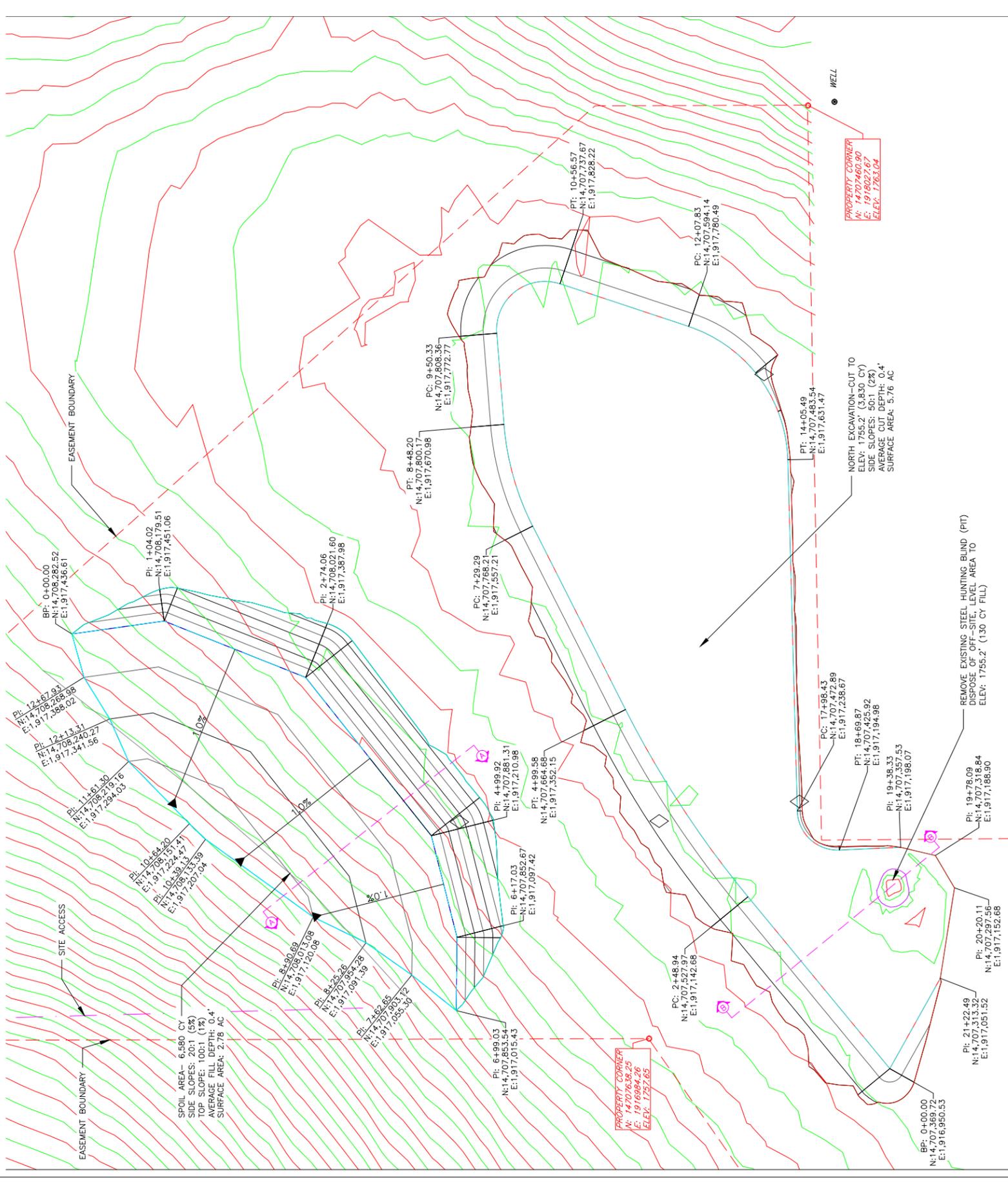
STATION	TYPE	NORTHING	EASTING	ELEV.
0+00.00	BP	14,707,369.72	1,916,950.53	1755.2
2+48.94	PC	14,707,527.97	1,917,142.68	1755.2
	CTR	14,706,654.25	1,917,862.27	1755.2
4+99.58	PI	14,707,607.97	1,917,239.82	1755.2
	PT	14,707,664.68	1,917,352.15	1755.2
7+29.29	PC	14,707,768.21	1,917,557.21	1755.2
	CTR	14,707,494.05	1,917,695.62	1755.2
	PI	14,707,795.34	1,917,610.96	1755.2
8+48.20	PT	14,707,800.17	1,917,670.98	1755.2
9+50.33	PC	14,707,808.36	1,917,772.77	1755.2
	CTR	14,707,754.66	1,917,771.10	1755.2
	PI	14,707,814.89	1,917,853.90	1755.2
10+56.57	PT	14,707,737.67	1,917,828.22	1755.2
12+07.83	PC	14,707,594.14	1,917,780.49	1755.2
	CTR	14,707,645.14	1,917,627.09	1755.2
	PI	14,707,486.61	1,917,744.74	1755.2
14+05.49	PT	14,707,483.54	1,917,631.47	1755.2
17+98.43	PC	14,707,472.89	1,917,236.67	1755.2
	CTR	14,707,472.95	1,917,236.89	1755.2
	PI	14,707,471.65	1,917,191.91	1755.2
18+69.87	PT	14,707,425.92	1,917,194.98	1755.2
19+38.33	PI	14,707,357.53	1,917,198.07	1755.2
19+78.09	PI	14,707,318.84	1,917,186.90	1755.2
20+20.11	PI	14,707,297.56	1,917,152.68	1755.2
21+22.49	PI	14,707,313.32	1,917,051.52	1755.2
22+38.16	EP	14,707,369.72	1,916,950.53	1755.2

SEEDING AND MULCHING NOTE: THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN ADEQUATE SEED BED TO ALLOW SEEDING WITH STAKED SEEDING EQUIPMENT. THE CONTRACTOR WILL INCLUDE USE OF A TRACK-FREE FINISH. BACK DRAGGING WITH A DOZER IS NOT AN ACCEPTABLE FINISH.

STATION	TYPE	NORTHING	EASTING	ELEV.
0+00.00	BP	14,708,282.52	1,917,436.61	1761.0
1+04.02	PI	14,708,179.51	1,917,451.06	1761.0
2+74.06	PI	14,708,021.60	1,917,387.98	1761.0
4+99.92	PI	14,707,881.31	1,917,210.98	1761.0
6+17.03	PI	14,707,852.67	1,917,097.42	1761.0
6+99.03	PI	14,707,853.54	1,917,015.43	1761.0
7+62.65	PI	14,707,903.12	1,917,055.30	1761.5
8+25.26	PI	14,707,954.28	1,917,091.39	1762.0
8+90.69	PI	14,708,013.08	1,917,120.08	1762.5
10+39.13	PI	14,708,133.39	1,917,207.04	1763.0
10+64.20	PI	14,708,151.41	1,917,224.47	1763.0
11+61.30	PI	14,708,219.16	1,917,294.03	1762.5
12+13.31	PI	14,708,240.27	1,917,341.56	1762.0
12+67.93	PI	14,708,268.98	1,917,388.02	1761.5
13+18.37	EP	14,708,282.52	1,917,436.61	1761.0



NORTH EXCAVATION AREA
CROSS-SECTION B:B
SCALE 1" = 30'

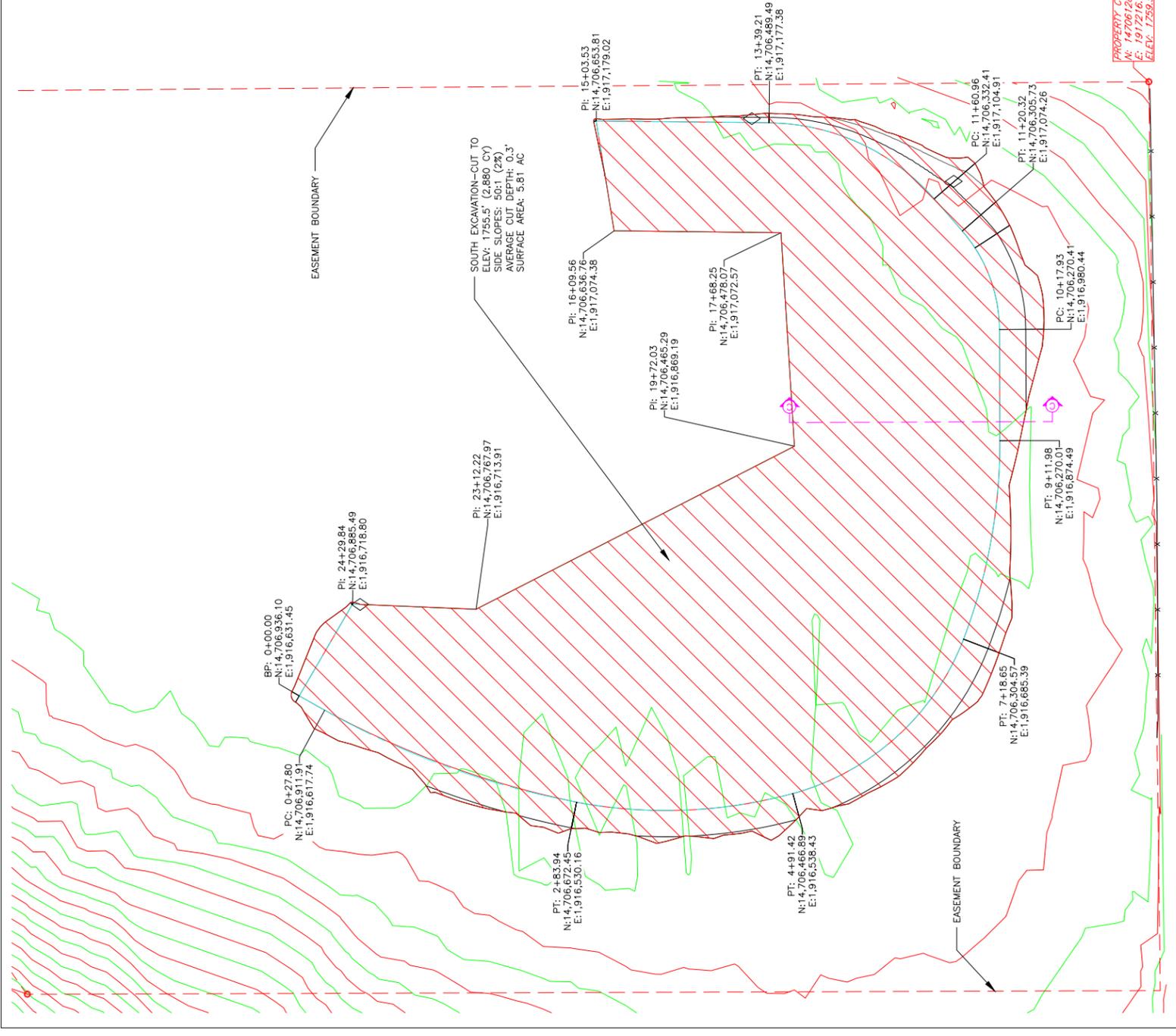


NORTH PLAN VIEW
SCALE 1" = 60'

- GENERAL NOTES**
- ONE HALF FOOT CONTOUR INTERVAL SHOWN.
 - 2018 1 METER RESOLUTION AERIAL IMAGERY IS SHOWN.
 - ITALICIZED TEXT DENOTES EXISTING FEATURE OR EXISTING ELEVATION.
 - SPOT ELEVATIONS INDICATED BY Φ -XXXX.X ARE RANDOMLY LOCATED AND ARE BASED ON SURFACE MODEL ELEVATIONS.

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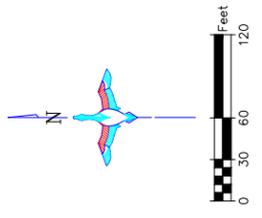
DUCKS UNLIMITED INC.
GREAT PLANS REGIONAL OFFICE
SHEET NO. _____
DATE: 8/12/2022
3 OF 4
APPROVED BY: _____
PROJECT NO. NE-344-1
GODTEL EXCAVATION
DESIGNED BY: GDC
DRAWN BY: GDC
SURVEYED BY: GDC
CHECKED BY: BAC



SOUTH PLAN VIEW
SCALE 1" = 60'

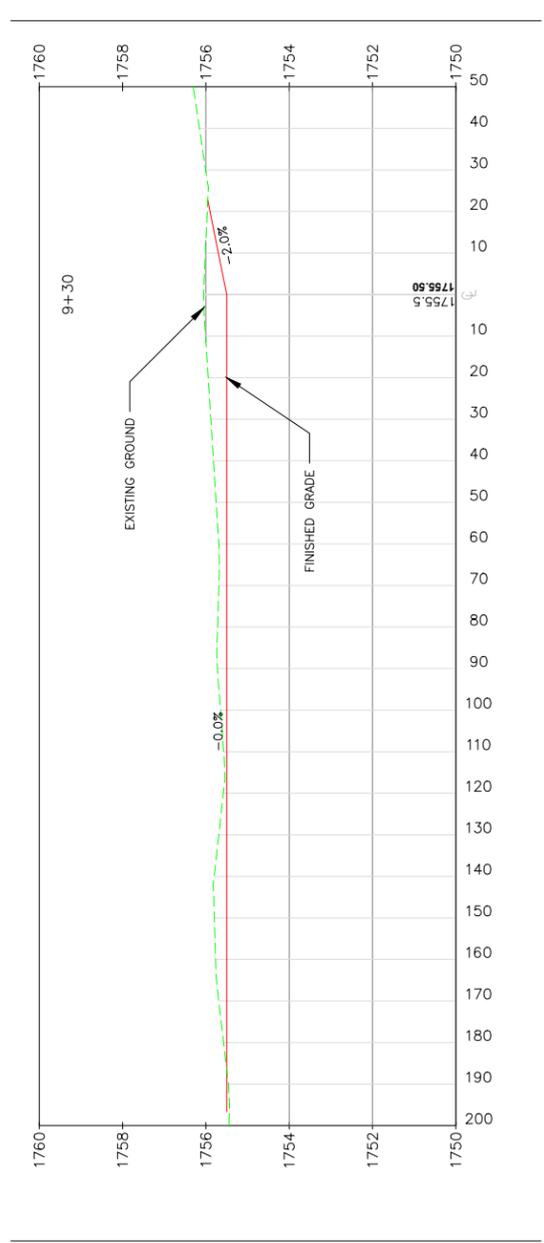
- GENERAL NOTES
- ONE HALF FOOT CONTOUR INTERVAL SHOWN.
 - 2018 1 METER RESOLUTION AERIAL IMAGERY IS SHOWN.
 - ITALICIZED TEXT DENOTES EXISTING FEATURE OR EXISTING ELEVATION.
 - SPOT ELEVATIONS INDICATED BY Φ -XXXX.X ARE RANDOMLY LOCATED AND ARE BASED ON SURFACE MODEL ELEVATIONS.

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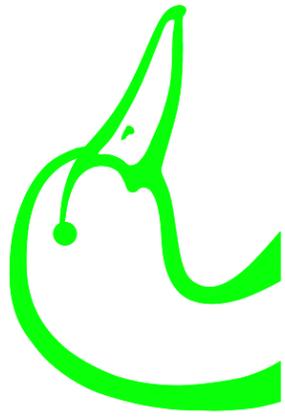
- SEEDING AND MULCHING NOTE: THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN ADEQUATE SEED BED TO ALLOW SEEDING WITH STANDARD SEEDING EQUIPMENT. THIS WILL INCLUDE USE OF A MEGACORR CORNER OR PLANE SURFACE TO LEAVE SURFACE TRACK-FREE FINISH. BACK DRAGGING WITH A DOZER IS NOT AN ACCEPTABLE FINISH.
- CONSTRUCTION NOTES:
- CLEARING AND GRUBBING OF EXCAVATION AREAS ARE NOT REQUIRED.
 - REMOVAL, STOCKPILING, AND RESPREADING OF TOPSOIL WITHIN THE EXCAVATION AND SPOIL AREA IS NOT REQUIRED.
 - ENGINEER WILL PROVIDED STAKING FOR THE BOTTOM, TOE OF THE EXCAVATION AREAS AND TOP SHOULDER OF THE SPOIL AREA. ADDITIONAL VERTICAL CONTROL POINTS WILL BE SET UPON REQUEST.
 - HAUL ROUTES BETWEEN THE EXCAVATION AREAS AND THE SPOIL AREA SHALL BE KEPT TO A MINIMUM. AT THE COMPLETION OF THE PROJECT, EXCAVATION AREAS, SPOIL AREA, AND HAUL ROUTES SHALL BE DISKED, SEE SEEDING AND MULCHING NOTE.

STATION	TYPE	NORTHING	EASTING	ELEV.
0+00.00	BP	14,706,936.10	1,916,631.45	1755.5
0+27.80	PC	14,706,911.91	1,916,617.74	1755.5
	CTR	14,706,529.27	1,917,292.76	1755.5
2+83.94	PT	14,706,799.48	1,916,554.01	1755.5
2+83.94	PC	14,706,672.45	1,916,530.16	1755.5
	CTR	14,706,587.68	1,916,981.64	1755.5
	PI	14,706,588.72	1,916,510.68	1755.5
4+91.42	PT	14,706,466.89	1,916,538.43	1755.5
4+91.42	PC	14,706,466.89	1,916,538.43	1755.5
	CTR	14,706,530.49	1,916,771.81	1755.5
	PI	14,706,348.43	1,916,570.71	1755.5
7+18.65	PT	14,706,304.57	1,916,685.39	1755.5
7+18.65	PC	14,706,304.57	1,916,685.39	1755.5
	CTR	14,706,304.57	1,916,685.39	1755.5
	PI	14,706,304.57	1,916,685.39	1755.5
9+11.98	PT	14,706,270.01	1,916,776.71	1755.5
10+17.93	PC	14,706,270.01	1,916,776.71	1755.5
	CTR	14,706,270.01	1,916,776.71	1755.5
	PI	14,706,270.01	1,916,776.71	1755.5
11+20.32	PT	14,706,270.62	1,917,033.92	1755.5
11+60.96	PC	14,706,305.73	1,917,074.26	1755.5
	CTR	14,706,332.41	1,917,104.91	1755.5
	PI	14,706,491.60	1,916,966.33	1755.5
	PI	14,706,394.67	1,917,176.43	1755.5
13+39.21	PT	14,706,489.49	1,917,177.38	1755.5
15+03.53	PI	14,706,653.81	1,917,179.02	1755.5
16+09.56	PI	14,706,636.76	1,917,074.38	1755.5
17+68.25	PI	14,706,478.07	1,917,072.57	1755.5
19+72.03	PI	14,706,465.29	1,916,869.19	1755.5
23+12.22	PI	14,706,767.97	1,916,713.91	1755.5
24+29.84	PI	14,706,885.49	1,916,718.80	1755.5
25+30.79	PI	14,706,936.10	1,916,631.45	1755.5
25+30.79	EP	14,706,936.10	1,916,631.45	1755.5



SOUTH EXCAVATION AREA
CROSS-SECTION C-C
SCALE 1" = 20'

PROJECT NO. NE-344-1
 GODTEL EXCAVATION
 SOUTH AREA
 DESIGNED BY: CDC
 DRAWN BY: CDC
 SURVEYED BY: CDC
 CHECKED BY: BAC
 APPROVED BY:
 SHEET NO. 4 OF 4
 DATE: 8/12/2022
 K:\Land Projects\NE-344-1 Godtel Tract\Final\NE-344-1 GodtelTract Earthwork.dwg



DUCKS UNLIMITED

DUCKS UNLIMITED PROJECT

GODTEL PIPELINE

LOCATED IN THE E $\frac{1}{2}$ NW $\frac{1}{4}$ & NW $\frac{1}{4}$ NE $\frac{1}{4}$ OF SECTION 16 TOWNSHIP 6N, RANGE 6W, 6TH P.M. CLAY COUNTY, NEBRASKA

IN COOPERATION WITH

NAWCA, NET

- 101 GENERAL CONDITIONS
- 102 SUPPLEMENTAL CONDITIONS
- 201 MOBILIZATION
- 202 SITE PREPARATION
- 305 RIPRAP, REVETMENT & AGGREGATE PLACEMENT
- 313 PUMP INSTALLATION
- 315 SUPPLY OF ELECTRICAL POWER
- 320 WATER PIPELINE INSTALLATION

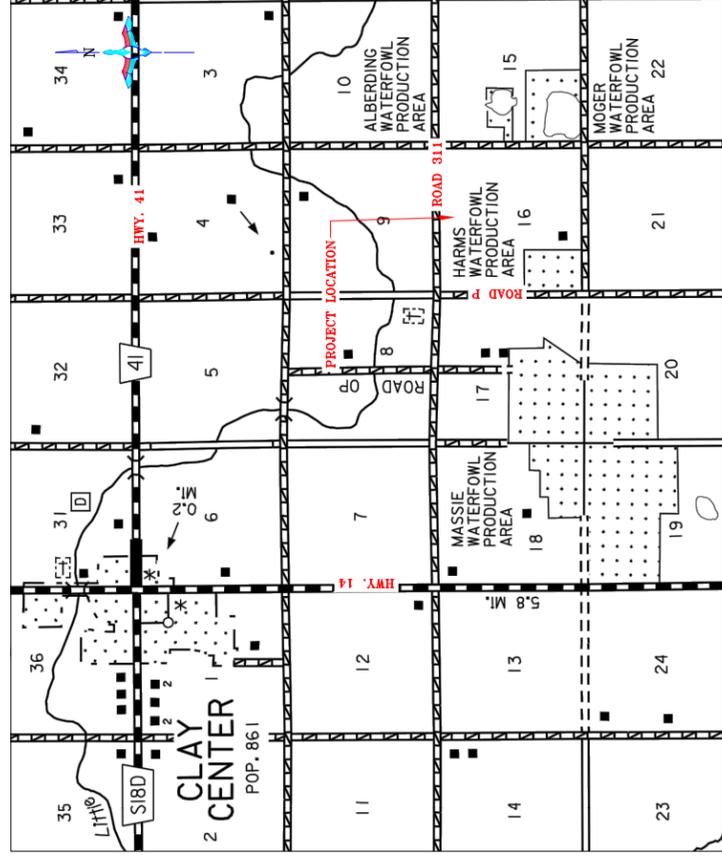
PLAN INDEX

- 1 LOCATION & VICINITY MAPS
- 2 OVERALL PLAN
- 3 PIPELINE DETAIL

ESTIMATED QUANTITIES

- MOBILIZATION
 - SITE PREPARATION
 - BURIED ELECTRIC LINE
 - WELL ELECTRIC MOTOR
 - STOCKPILE EXISTING MATERIAL
 - PUMP CREDIT
 - DISCHARGE PIPE & COMPONENTS
 - WATER PIPELINE SUPPLY & INSTALLATION
 - DU CLASS II RIPRAP
- 1 L.S.
 1 L.S.
 1,300 L.F.
 1 L.S.
 1 L.S.
 1 L.S.
 1 L.S.
 1 L.S.
 965 L.F.-A.*
 5 C.Y.-P.*

*PAYMENT WILL BE BASED ON ACTUAL QUANTITY USED OR INSTALLED.



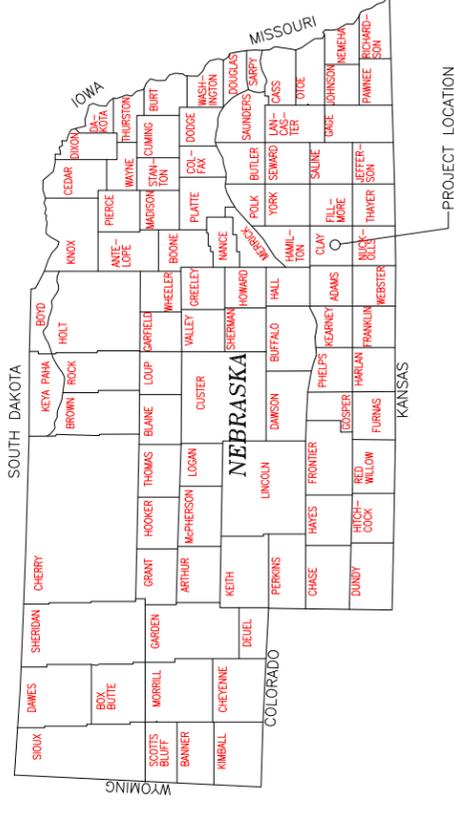
VICINITY MAP

NOT TO SCALE



LOCATION MAP

NOT TO SCALE



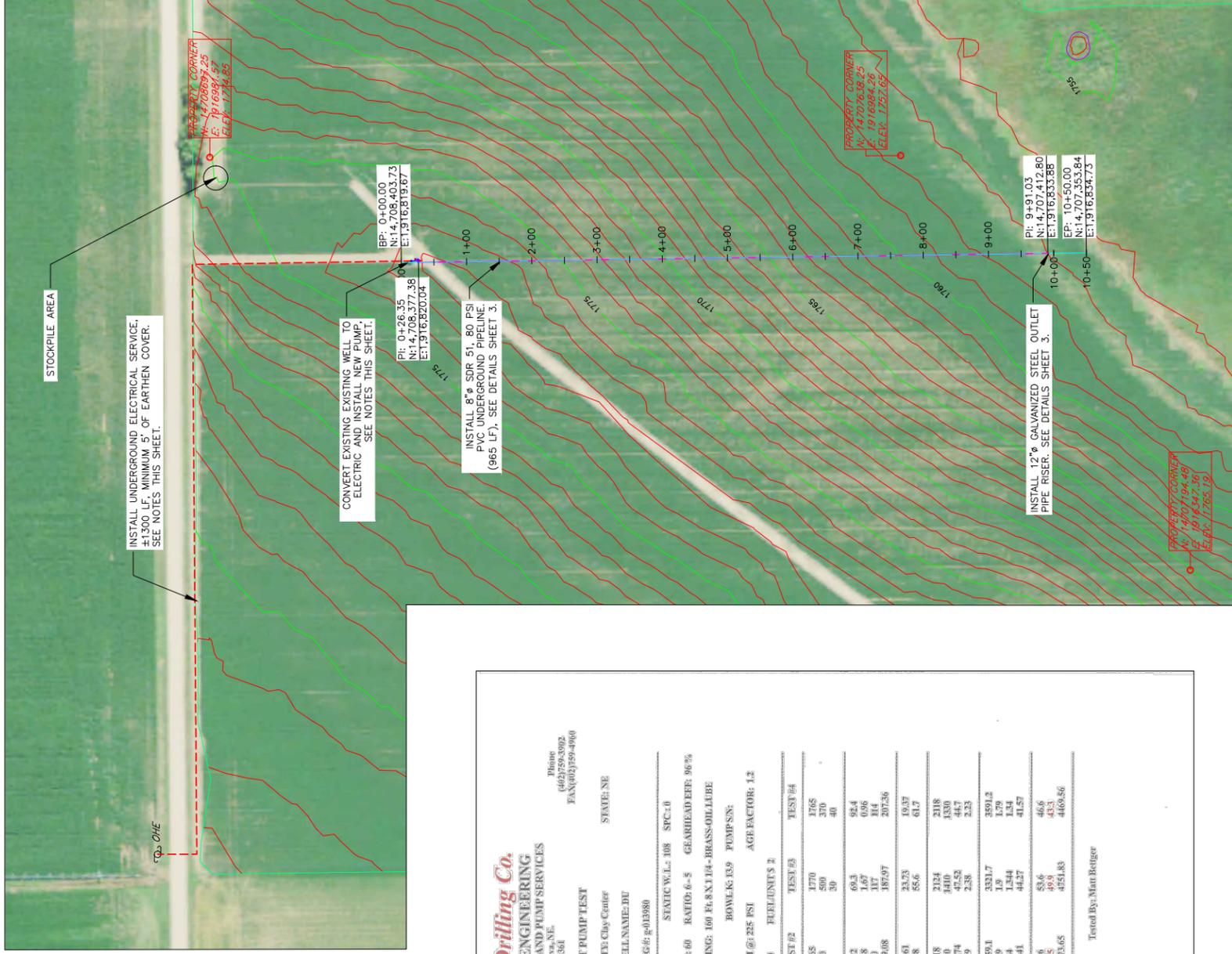
ALL WRITTEN SCALES ARE ACCURATE ON 24x36 INCH SHEETS

UTILITIES NOTE: BEFORE THE START OF CONSTRUCTION, THE OWNER OF ANY UTILITIES INVOLVED MUST BE NOTIFIED. THE EXCAVATOR/CONTRACTOR IS RESPONSIBLE FOR GIVING THIS NOTICE BY CALLING "DIGGER'S HOTLINE" AT (800) 331-5666 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION.

DLL ENGINEER:
 CASEY CAMPBELL
 2121 N WEBB RD., SUITE 309
 GRAND ISLAND, NE 68603
 (308) 385-8832

DUCKS UNLIMITED INC.
 GREAT PLANS REGIONAL OFFICE
 PROJECT NO. NE-344-1
 SHEET NO. 1 OF 3
 DATE: 5/17/2021

DESIGNED BY: CDC
 DRAWN BY: GDC
 SURVEYED BY: GDC
 CHECKED BY: BAC
 APPROVED BY:



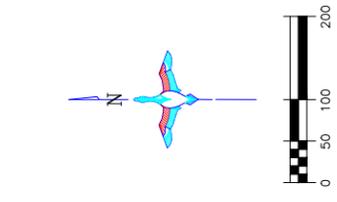
OVERALL PLAN VIEW
SCALE 1" = 100'

WELL MODIFICATION/INSTALLATION NOTES:

- INSTALLATION OF BURIED ELECTRIC LINE SHALL BE SIZED TO MEET THE LOAD REQUIRED BY THE ELECTRIC MOTOR. PERMITTING AND ELECTRICAL INSPECTION SHALL BE PAID FOR AND COORDINATED BY THE CONTRACTOR. SOUTH CENTRAL PUBLIC POWER DISTRICT IS THE ELECTRIC COMPANY, NELSON OFFICE TELEPHONE NUMBER IS 402-225-2351. UNDERGROUND ELECTRIC SERVICE SHALL HAVE A MINIMUM OF 5' OF EARTHEN COVER.
- TRENCHING, BURIED ELECTRIC CABLE, TRENCH BACKFILLING & COMPACTION, TRANSFORMERS, AND ALL ELECTRICAL APPURTENANCES REQUIRED FOR A FUNCTIONAL UNDERGROUND ELECTRIC DELIVERY SYSTEM SHALL BE INCLUDED. MATERIAL SUPPLY AND INSTALLATION COST SHALL BE INCLUDED IN BID ITEM "BURIED ELECTRIC LINE".
- THE GROUND SURFACE AFTER TRENCHING SHALL BE SMOOTH AND UNIFORM WITHOUT EXCESSIVE SOIL CLODS AND OR VEGETATION.
- WELL WILL REQUIRE A NEW 75 HORSEPOWER PREMIUM EFFICIENCY ELECTRIC MOTOR AND ASSOCIATED COMPONENTS FOR AN OPERATIONAL WATER PUMPING SYSTEM. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE MOTOR, ALL WIRING, AND ELECTRICAL COMPONENTS, INCLUDING A MOTOR SOFT STARTER AS REQUIRED FOR AN OPERATIONAL PUMPING SYSTEM. MATERIAL SUPPLY, INSTALLATION AND COST SHALL BE BID UNDER "WELL ELECTRIC MOTOR".
- WELL WILL REQUIRE SUPPLY AND INSTALLATION OF A NEW VERTICAL TURBINE PUMP AND COMPONENTS TO REACH THE MINIMUM WATER FLOW RATE OF 630 GALLONS PER MINUTE AT 35 PSI TO BE MEASURED AT THE BUTTERFLY VALVES. WORK SHALL INCLUDE EXISTING PUMP REMOVAL AND DESIGN OF NEW PUMP SYSTEM. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NECESSARY COMPONENTS TO ACHIEVE MINIMUM FLOW REQUIREMENTS. THE INSPECTION, DESIGN, MATERIAL SUPPLY, INSTALLATION AND COST SHALL BE BID UNDER "WELL PUMP".
- THE EXISTING PUMP IS AN OIL LUBRICATED SYSTEM AND SHALL REMAIN AS SUCH. A NEW OIL LUBE CONTAINER SHALL BE PROVIDED AND INSTALLED. A NEW VALVE AND LUBRICATION HOSE SHALL BE INCLUDED AND INSTALLED. ALL MATERIAL SUPPLY, INSTALLATION AND COST SHALL BE INCLUDED WITH "WELL PUMP".
- PUMP TESTS SHOWN ON THIS PLAN SHEET ARE PROVIDED AS A REFERENCE ONLY. THE CONTRACTOR SHALL COMPLETE THEIR OWN DESIGN BASED ON THE INFORMATION PROVIDED AND INSPECTION OF THE EXISTING WELL AND PUMPING SYSTEMS.
- ALL EXISTING MATERIALS DIESEL MOTOR, FUEL TANK, AND PIPES REMAIN THE PROPERTY OF THE LANDOWNER AND SHALL BE STOCKPILED NEAR THE TREES TO THE NORTH AS INDICATED ON THE PLANS. WORK SHALL BE BID UNDER "STOCKPILE EXISTING MATERIALS". THE PUMP SHALL BECOME PROPERTY OF THE CONTRACTOR, ANY VALUE FOR THE PUMP SHALL BE APPLIED TO BID ITEM "PUMP CREDIT" AND SHALL BE SUBTRACTED FROM THE TOTAL BID AMOUNT. THE EXISTING SHELTER SHALL BE REMOVED AND DISPOSED OF OFFSITE. THE CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF THE SHELTER AND SHALL BE BID UNDER "SITE PREPARATION".
- CARE SHALL BE TAKEN TO MINIMIZE IMPACTS TO CROPS. THIS MEANS THAT WELL DOWNTIME SHALL BE AS SHORT AS POSSIBLE DURING THE WELL CONVERSION. THE FOOTPRINT OF TRENCHING OF THE ELECTRIC SERVICE AND PIPELINE SHALL BE AS NARROW AS POSSIBLE. ANY SURFACE IRRIGATION PIPE DISCONNECTED FOR THE PURPOSE OF CONSTRUCTION SHALL BE RECONNECTED BY THE CONTRACTOR.



EXISTING INFRASTRUCTURE
DATE: 3/1/2021



Sargent Drilling Co.
INDUSTRIAL ENGINEERING
COMPLETE WELL AND PUMP SERVICES
Gardner, NE

Box 367
846 South 13th
Phone
(402)759-5902
FAX (402)759-4900

OWNER: Ducks Unlimited
CITY: Clay Center
STATE: NE

LEGAL: Center/NEWS 16-7 6-R-6
WELLNAME: DU

GPS/DATE: 40-29-40.5 W/LONG: 98-0-24.1
REG#: G013980

WELL DEPTH: 182 FEET OF 18 IN. CONCRETE
STATIC W.L.: 108 SFC: 0

GEARHEAD: ANHARILLO
HP: 60 RATIO: 6-5
GEARHEAD EFF: 96%

PUMPING: Western Land Roller
SETTING: 160 Ft. X 114- BRASS-OLLUUE

BOYLE: 3 Stage 12 B - Western Land Roller
BOYLE: 13.9 PUMPS:

DIST TYPE: GATED PIPE NOZZLED FOR 700 GPM @ 125 PSI
AGE FACTOR: 1.3

ENGINE: DIESEL
HP/GAL.: 20 FUEL/UNITS: 2

CONDITION	TEST #1	TEST #2	TEST #3	TEST #4
Pump RPM	1770	1765	1770	1765
Flow GPM	870	670	500	310
Pumping Pressure (PSI)	1	20	30	40
Pressure Head (Ft)	2.31	46.2	69.3	92.4
Pump Loss (Ft)	4.67	2.88	1.67	0.96
Pumping Level (Ft)	124	120	117	114
BDH (Ft)	130.98	169.08	187.97	207.36
Water HP	28.78	38.61	32.33	19.37
SP Capacity (GPM/HP)	54.4	55.8	55.6	61.2
Engine RPM	2124	2118	2124	2118
Torque In. Lbs.	1600	1480	1410	1330
Engine HP	53.92	49.74	45.52	41.7
net GPH	27	24.9	22.8	22.3
Total Thrust (lbs)	2539.5	3059.1	3321.7	3591.2
Gearhead Loss	2.16	1.99	1.9	1.79
Bearing Loss (HP)	1.344	1.34	1.344	1.34
Box HP	50.42	46.41	44.27	41.57
Box Efficiency (%)	57.1	61.6	53.6	46.6
Pump Efficiency (%)	53.4	57.5	49.9	43.3
Annual Cost (\$)	4592.15	4973.65	4514.83	4469.56

DATE: 04-30-2021
Tuned By: Matt Buttger

GENERAL NOTES

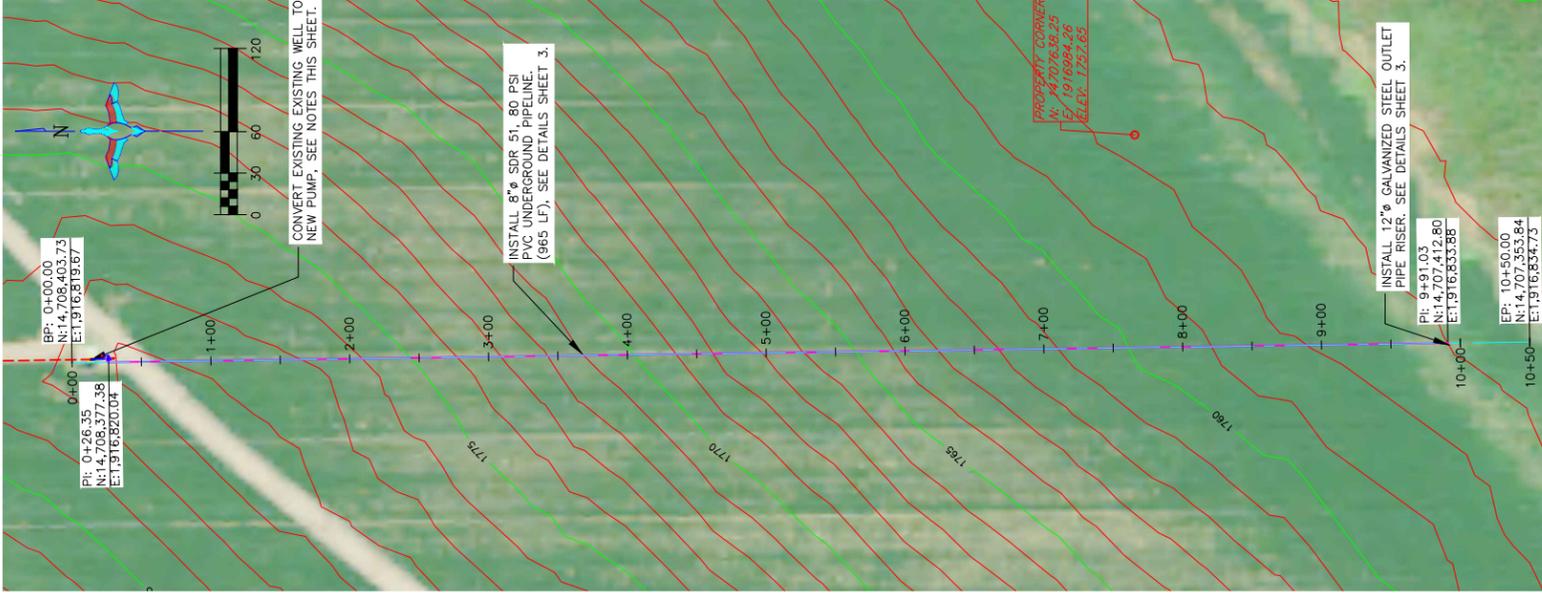
- ONE FOOT CONTOUR INTERVAL SHOWN.
- 2020 1 METER RESOLUTION AERIAL IMAGERY IS SHOWN.
- ITALICIZED TEXT DENOTES EXISTING FEATURE OR EXISTING ELEVATION. BASED ON SURFACE MODEL ELEVATIONS.

THIS MATERIAL, DATA AND INFORMATION IS THE PROPERTY OF DUCKS UNLIMITED, INC. IT MAY NOT BE USED OR REPRODUCED FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF AN AUTHORIZED AGENT OF DUCKS UNLIMITED, INC. DUCKS UNLIMITED, INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND REGARDING THIS MATERIAL, DATA AND INFORMATION, INCLUDING, BUT NOT LIMITED TO, THE ACCURACY OF THE MATERIAL, DATA AND INFORMATION OR ITS SUITABILITY FOR ANY PURPOSE. ALL USE OF THIS MATERIAL, DATA AND INFORMATION IS AT THE USER'S SOLE RISK. BY USING ANY OF THIS MATERIAL, DATA AND INFORMATION, YOU AGREE THAT DUCKS UNLIMITED, INC. IS NOT RESPONSIBLE FOR THEIR USE OF THE MATERIAL, DATA AND INFORMATION OR THE RESULTS THEREOF.

HORIZONTAL AND VERTICAL CONTROL OPUS SOLUTION- COORDINATES ARE UTM, ZONE 14 GRID COORDINATES IN US FEET (NAD83). THEY WERE ESTABLISHED FROM THE WGS84 POINT AND CONTROL POINT (DUL-300-20) AND CALIBRATED JANUARY 8, 2020 AT DUCKS UNLIMITED CONTROL POINT (DUL-300-20) TO AN OPUS POSITION OCCUPIED FOR 2 HOURS AND 3 MINUTES(S) AND SENT TO NGS FOR SOLUTION. THE VERTICAL CONTROL CAME FROM THE SAME SOLUTION USING GEOID 18 CONUS IN THE NAVD88. THE FULL OPUS SOLUTION REPORT IS ON FILE AT THE DUCKS UNLIMITED ENGINEERING DEPARTMENT IN GRAND ISLAND, NEBRASKA.

DUCKS UNLIMITED INC.
GREAT PLANS REGIONAL OFFICE
SHEET NO. 2 OF 3
DATE: 5/17/2021

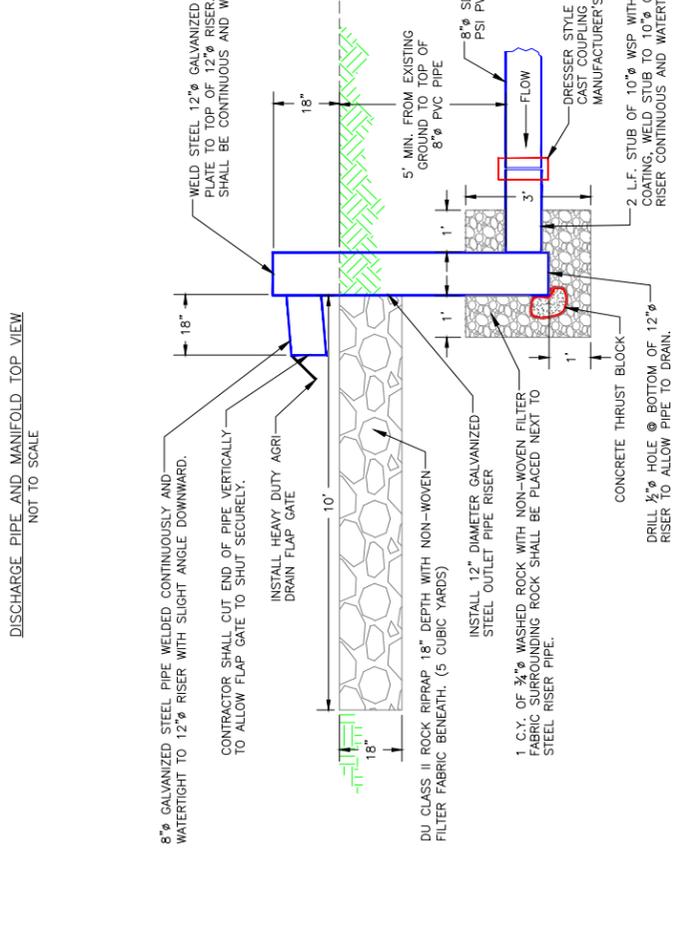
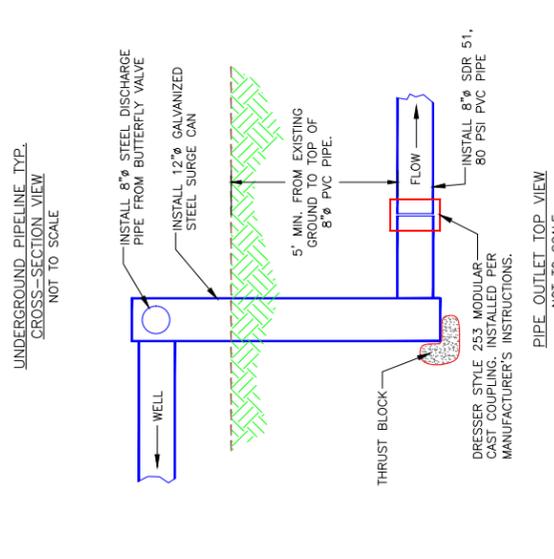
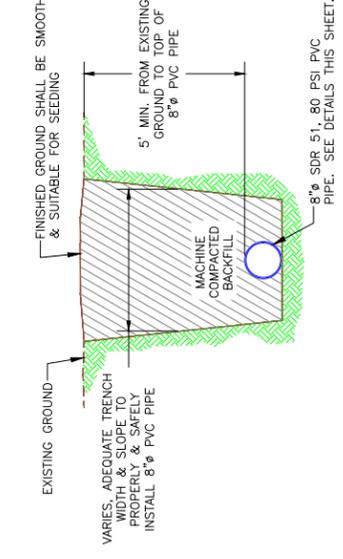
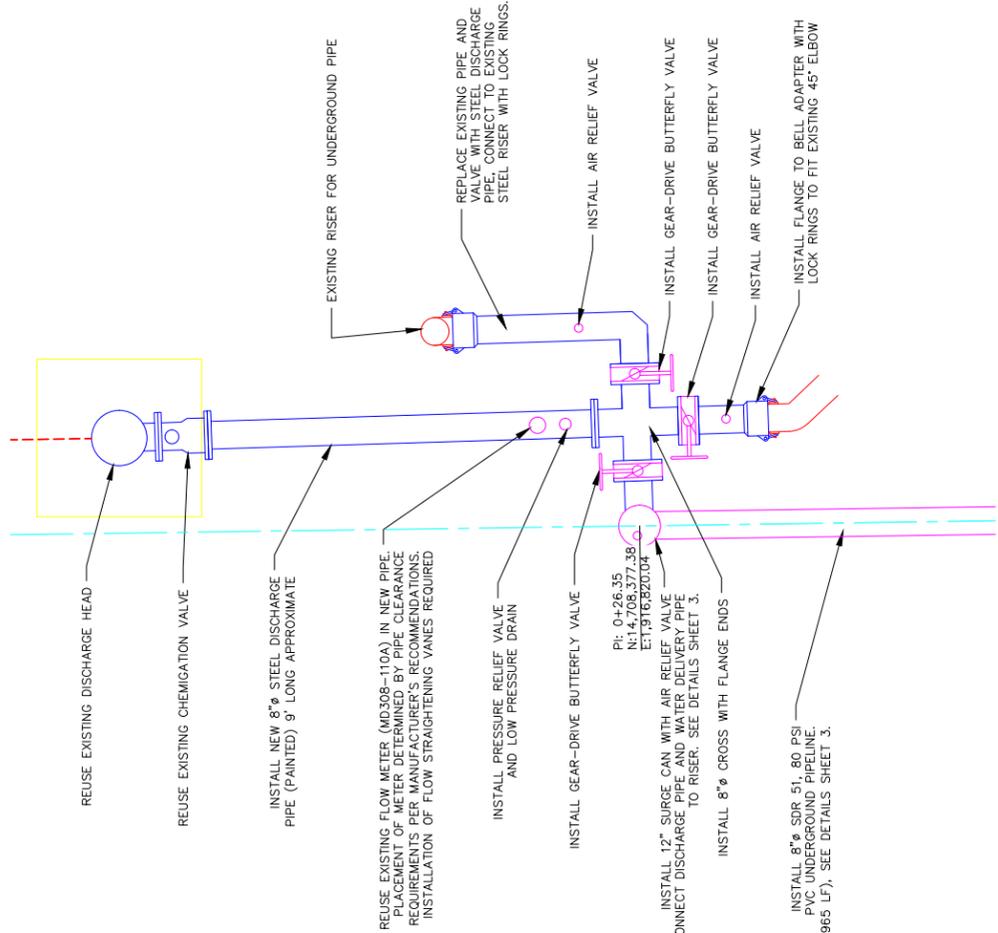
PROJECT NO. NE-344-1
GODTEL PIPELINE
DESIGNED BY: CDC
DRAWN BY: CDC
SURVEYED BY: CDC
CHECKED BY: BAC
APPROVED BY:



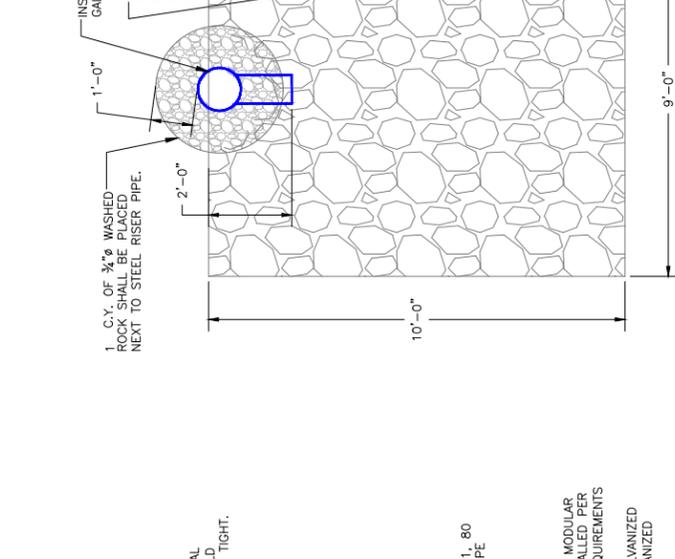
GENERAL NOTES

- ONE FOOT CONTOUR INTERVAL SHOWN.
- 2020 1 METER RESOLUTION AERIAL IMAGERY IS SHOWN.
- ITALICIZED TEXT DENOTES EXISTING FEATURE OR EXISTING ELEVATION.
- SPOT ELEVATIONS INDICATED BY ϕ -XXXX.X ARE RANDOMLY LOCATED AND ARE BASED ON SURFACE MODEL ELEVATIONS.

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PIPE OUTLET TOP VIEW
NOT TO SCALE



PIPELINE CONSTRUCTION NOTES:

- CONTRACTOR SHALL PROVIDE AND INSTALL NEW AND PAINTED 8" DIAMETER STEEL DISCHARGE PIPE WITH ADEQUATE PIPE SUPPORTS TO MINIMIZE MOVEMENT. THE EXISTING 8" PROPELLER FLOW METER SHALL BE REUSED AND INSTALLED ON THE NEW DISCHARGE PIPE, WITH ADEQUATE PIPE CLEARANCES PER THE MANUFACTURER'S RECOMMENDATIONS. FLOW STRAIGHTENING VANES ARE REQUIRED. CONTRACTOR SHALL PROVIDE AND INSTALL ALL VALVES, RISERS, SURGE CANS, AND FITTINGS AS SPECIFIED ON DRAWINGS. BUTTERFLY VALVES SHALL BE OPERATED BY ALL PIPE OPERATORS. ALL PIPE FITTINGS SHALL BE WATERTIGHT. CONTRACTOR SHALL PROVIDE ALL EXISTING PIPE FITTINGS. WORK SHALL BE BID UNDER "DISCHARGE PIPE & COMPONENTS".
- THE UNDERGROUND PVC PIPE SHALL BE 8" DIAMETER SDR 51 PVC APPROVED FOR 80 PSI MINIMUM PRESSURE. THE TOP OF THE PIPELINE SHALL BE BURIED TO A MINIMUM OF 5' BELOW EXISTING GROUND. THE PIPELINE DOWNSTREAM END SHALL OUTLET INTO A CONTRACTOR PROVIDED AND INSTALLED 12" DIAMETER GALVANIZED STEEL PIPE OUTLET RISER WITH A HEAVY DUTY HINGED FLAP GATE. CONTRACTOR SHALL SUPPLY AND INSTALL CONCRETE THRUST BLOCKS AT ALL BENDS, VALVES, TEES, SLOPE CHANGES, AND ALL NECESSARY COUPLERS FOR A COMPLETE AND WATERTIGHT PIPELINE. SEE DETAILS ON THIS SHEET. WORK SHALL BE BID UNDER "WATER PIPELINE SUPPLY & INSTALLATION".
- A 9'x10'x18" (5 C.Y.-P) ROCK RIPRAP APRON WITH NON-WOVEN FILTER FABRIC BENEATH. WORK SHALL BE BID UNDER "DU CLASS II RIPRAP".
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN ADEQUATE SEED BED TO ALLOW SEEDING WITH STANDARD SEEDING EQUIPMENT FOR ALL AREAS. CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT FOR ALL AREAS. CONTRACTOR SHALL LEAVE ALL WORK AREAS IN A FINISH CONDITION. DRAGGING WITH A DOZER IS NOT AN ACCEPTABLE FINISH. CONTRACTOR IS NOT REQUIRED TO SEED THE SITE.

DUCKS UNLIMITED INC.
GREAT PLANS REGIONAL OFFICE

PROJECT NO. NE-344-1
GODETEL PIPELINE

SHEET NO. 3 OF 3

DATE: 5/17/2021

DESIGNED BY: CDC
DRAWN BY: CDC
SURVEYED BY: CDC
CHECKED BY: BAC
APPROVED BY:

Submit to:

Department of Natural Resources
301 Centennial Mall South
P.O. Box 94676
Lincoln, Nebraska 68509-4676
Phone (402) 471 2363

**STATE OF NEBRASKA
DEPARTMENT OF NATURAL RESOURCES**

This form is required to be filed
within **60 days** of any
modification to the water well.

**WATER WELL REGISTRATION PUMP INSTALLATION AND CONSTRUCTION MODIFICATION
PUMP INSTALLER/WELL CONTRACTOR USE ONLY**

FOR DEPARTMENT USE ONLY

Date Filed 9/24/2021 Owner Code No. 70825 Registration No. G-013980
09242021 - 19377 - mod (2) LB NRD
WELL ID

ALL ITEMS IN SECTION 1 AND SIGNATURE IN SECTION 3 ARE REQUIRED

SECTION 1:

A. Well Owner's First Name Francis Last Name Godtel

OR Company Name _____

Attention Name _____

Address PO Box 585

City Sutton State NE Zip 68979-0000 Telephone _____

B. Contractor (if applicable) Sargent Drilling Telephone Number() 402 694 2

Address 109 Q Street Pump Installer/Contractor License No. 39623

City Aurora State NE Zip Code 68818 + _____

Email Address sargentdrilling@hamilton.net

C. Well Registration No. G-013980

List complete well location as it appears in DNR database: Legal, Footage and/or GPS Coordinates

1. Well location: NE 1/4 of the NW 1/4 of Section 16, Township 6 North, Range 6 East/West, Clay County.

2. The well is 285 feet from the (North or South) section line and 2257 feet from the (East/West) section line.
(circle one) (circle one)

OR Latitude Degree: 40 Minute: 29 Second: 41

Longitude Degree: -98 Minute: 00 Second: 21

D. State Reason for Change: Install new pumping equipment

PUMP INSTALLATION AND CONSTRUCTION MODIFICATION

Complete only those items being modified

SECTION 2:

A. Pump information.

1. Pumping rate: 650 gallons per minute. Measured or Estimated

2. Drop Pipe diameter: 8 Inches. 3. Length of drop pipe: 150 feet.

4. Pumping equipment installed: (m) 09 / (d) 23 / (y) 2021. 5. Brand/Type: Sargent

6. Static Water Level: 112 feet.

7. Pumping water level: 130 feet.

8. Amount of time pumped: 2.

B. Active to Inactive (please check A or B) with or without pump

On _____, the water well is ___ a) altered from active to inactive by removing the _____ inch pump

and pumping column and properly capping the water well according to state standards or ___ b) no longer in use but pump still in place
with a water tight seal according to state standards. (§46-1207.02)

C. I certify that the well has been modified according to information given in section 2 A, D, E, & F, such that it will pump 50 gallons per minute or less. Pumping Rate: _____

Change of use (Check one of the following): Livestock Monitoring Observation

nonconsumptive or de minimus use approved by the applicable natural resources district. State use: _____

D. Well Construction Information.

- 1. Total well depth: _____ feet.
- 2. Static water level: _____ feet.
- 3. Pumping water level: _____ feet
- 4. Well Construction began: (m)____/(d)____/(y)_____
- 5. Well Construction completed: (m)____/(d)____/(y)_____
- 6. Bore hole diameter in inches: Top____ Bottom ____
- 7. Casing and Screen Joints are: Welded____, Glued____, Threaded____, Other_____

E. Well Construction Modification.

- 1. Total well depth: _____ feet.
- 2. Static water level: _____ feet.
- 3. Pumping water level: _____ feet
- 4. Well Modification began: (m)____/(d)____/(y)_____
- 5. Well Modification completed: (m)____/(d)____/(y)_____
- 6. Bore hole diameter in inches: Top____ Bottom ____
- 7. Casing and Screen Joints are: Welded____, Glued____, Threaded____, Other_____

F. Well Construction (Casing & Screen)- 3,4,5, & 6, measurements should be in inches to three decimal places

1 2		Casing or Screen	3 Inside Diameter	4 Outside Diameter	5 Wall Thickness	6 Screen Slot Size	7 Type of Material	8 Trade Name
Placement Depth in Feet								
From	To							

G. Grout and Gravel Pack

Placement Depth in Feet		Grout or Gravel Pack	Material Description
From	To		

H. Geologic Materials Logged

DEPTH IN FEET		DESCRIPTION
FROM	TO	

DEPTH IN FEET		DESCRIPTION
FROM	TO	

(Additional sheets may be submitted)

SECTION 3:

I hereby certify that the information provided on this form is true and accurate to the best of my knowledge.

16325161047524 NOL ID: sardrill01 _____

Contractor

09/24/2021 _____

Date

The Department reserves the right to request verification of information provided.

Registration No. 8-13980 County of CLAY Date Filed JAN 28 1958

STATE OF NEBRASKA
IRRIGATION WELL REGISTRATION

I, E. M. Berghart of CLAY CENTER
(Name of Person registering well) (Postoffice Address)

County of CLAY State of NEBRASKA, being first duly sworn upon my oath say:

1st. That the name of the owner of the land upon which the irrigation well is located is

FRANCIS GODTEL, of CLAY CENTER Street, CLAY CENTER County of CLAY
(City or Village)

State of NEBRASKA

2nd. That the irrigation well is located on the NE Quarter of the NW Quarter of Section 16

Township 6N, Range 6W of the Sixth P. M., CLAY County, and is

feet from the _____ line and _____ feet from the _____ line of said tract.

3rd. That the well was installed with the intention of irrigating all or parts of the following described

land: WEST HALF OF THE NORTHWEST QUARTER (W $\frac{1}{2}$ NW $\frac{1}{4}$) and the NORTHWEST QUARTER OF THE NORTHEAST
(Give Quarter, Section, Township and Range)
QUARTER (NW $\frac{1}{4}$ NE $\frac{1}{4}$) all Section 16, Township 6 North, Range 6 West of the 6th P.M together with

EAST HALF OF THE SOUTHWEST QUARTER (E $\frac{1}{2}$ SW $\frac{1}{4}$) Section 9, Township 6 North, Range 6 West of
the 6th P.M. all in Clay County, Nebraska
amounting in all to approximately 200 acres.

(If installation consists of a battery of wells with one outlet, give details on a sheet to be attached hereto.)

4th. That the capacity of said well under normal operating conditions is 1,000 gallons per minute.

5th. That the depth of the well is 182 feet, measured from the surface of the ground.

6th. That the inside diameter of the casing is 18" inches.

7th. That the static water level in the well is 100 feet below ground surface.

8th. That the depth to water under normal pumping conditions is 120 feet below ground
surface. (Pumping Level)

9th. That the diameter of the pump column is 8 5/8 inches. That the diameter of the 3
(Give number of bowls)

bowl or bowls is 12 inches.

10th. That the type and size of impeller is as follows:

12" HG. Western Landroller impellers

11th. That the well was completed on or about the 15 day of March, 1957.

12th. That attached hereto are three copies of the log of the well certified to by the driller of the well.

13th. That the relation which the subscriber to this affidavit bears to said registrant is that of

Lessee Tenant

(State whether owner, tenant or agent for land on which well is located)

and that he is authorized to make this affidavit in behalf of the interest affected.

E. M. Burg

STATE OF Nebraska }
Clay County } ss.

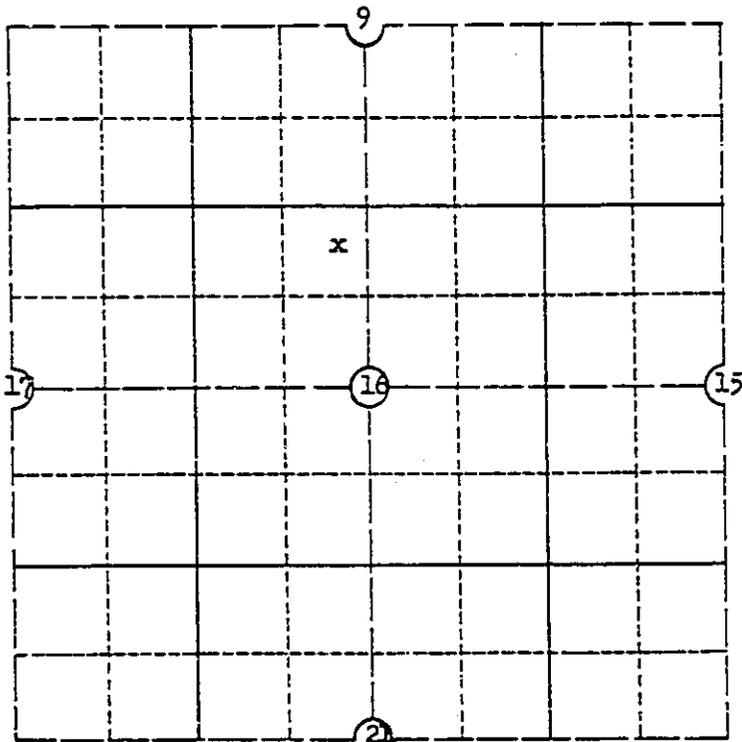
I hereby certify that the foregoing was signed in my presence and sworn to before me this 6 day of January, 19 58

My Commission Expires July 20, 1961

J. T. Massie
Notary Public

The location of the well and the land irrigated should be shown on the plat below. Insert Section Number or Numbers in circle or half-circles; locate well with a +, and outline land irrigated or to be irrigated. (Each small square is 40 acres.)

Township 6 North, Range 6, County Clay



State of Nebraska }
Department of Water Resources } ss.

This instrument was filed for record at 8 o'clock a.m., on the 28 day of Jan. 19 58

Dan H. Jones, Jr.
Notary Public

STATE OF NEBRASKA
 CERTIFICATE OF WELL DRILLER

I, SHUCK DRILLING COMPANY of EDGAR
(Name of Driller) (Postoffice Address)

County of CLAY State of NEBRASKA, do hereby certify that:

1. I am the driller of an irrigation well located on the NW Quarter, Section No. 19
 Township 6 North, Range 6, owned by Francis Godtel

whose postoffice address is Clay Center State of Nebraska

2. That the drilling was begun on the 14th day of March, 19 57, and completed on
 the 15 day of March, 19 57

3. That the well is cased and screened in the following manner: 102² plain concrete casing
(Give kind of casing, lengths and position of plain and screen casing, weight of metallic casing, etc.)
80ⁿ perforated concrete casing

4. That the diameter of drilled hole is 36 inches.

5. That Rotaroy type of drilling machinery was used.

6. That the drilled hole ~~is~~ is not sealed, as follows:

7. That the following is an accurate log of the depth, thickness and character of the different strata penetrated, and the location of water-bearing strata:

DEPTH IN FEET FROM	TO	MATERIAL DRILLED
0	2	Top Soil
2	38	Yellow Clay
38	55	Sandy Clay
55	70	Brown Clay
70	88	Dirty Clay
88	100	Clay hard
100	109	Sand
109	119	Sand, some gravel
119	120	clay

DEPTH IN FEET
FROM TO

MATERIAL DRILLED

120	132	Sand and gravel
132	135	Clay
135	146	Sand and gravel
146	150	Clay
150	157	Sand and some gravel
157	159	Clay
159	175	Sand and gravel
175	198	Blue sand little gravel

Signed Bill C. Linn
SHUCK DRILLING COMPANY
Driller

Well Registration or Area Permit

Fee Paid: \$70.00

HHSS Fee: \$30.00

DNR Cash Fund: \$18.50

WWDF: \$21.50

Billing ID: 81297

Source: <u>Nebraska On Line</u>	Import Status: <u>Accepted</u>	Use: <u>Livestock</u>	Owner ID: <u>154999</u>
NoID: <u>17181295262501</u>	Status: <u>A - Active Registered Well</u>	Decommission Date:	Registration Number: <u>G-200376</u>
Well ID: <u>278954</u>	NRD: <u>Little Blue</u>		Registration Date: <u>06/12/2024</u>
Last Change User: <u>jeremy.bower</u>	Last Change Date: <u>06/12/2024</u>		

Well Info

Owner/Driller Information (1 Owner(s))

Show previous owners:

1. Owners

Owners:

Contact Id	Type	SeqNum	Begin Date	End Date	Name
154999	Owner	1	06/12/2024		Wetlands America Trust Inc

2. Well Contractors

Contractor:

Contact Id	First Name	Last Name	Contact Type	License Information
148154	Dustin L	Nissen	Water Well Professional	39623

Drilling Firm:

Contact Id	Employer	Contact Type	License Information
145411	Sargent Drilling	Water Well Entity	Employer ID: 709732

Well Location Information

3. Location

A. Well Location: NE1/4NW1/4 of Section 16

Township 6 North, Range 6 (West E/W), Clay County

B. Natural Resource District: Little Blue of Section 16

Well GPS Coordinates (DecDeg):
 Latitude: 40.49516667 Longitude: -98.00469444

Well GPS Coordinates (DMS):
 Latitude: 40° 29' 42.6" Longitude: -98° 0' 16.9"

CalcGPS:

Gps Provider: Well Footage:

C. The well is: 125 feet from the N Section line and 2572 feet from the W section line.

D. Street address or block, lot and subdivision: Add/Sub Div Block No Lot

E. Location of water use, if applicable (give legal description): NENW S16 T6 R6

G. Well reference letter(s) if applicable:

Well Series Information

6. Well In A Series

Well Part of a Series with Site Plan: No

Series Reg # (External Source):

Well In A Series

Series ID	# of Wells Active in Series	Total # of Wells in Series	Acres	Acres Certified	Series Code-Description
285253	1	1		No	PRO-Single Project

WellID	Registration #	NRD Approved	Comment	Series Reg # (External Source)	Well Status	Completion Date	Start Date	End Date
278954	G-200376	No			A-Active Registered Well	06/05/2024	06/12/2024	

Permit/Use

4. Permits

	Aprvd Date(s)				Aprvd Date(s)		
Area Permit	<input type="text"/>	<input type="text"/>	<input type="text"/>	SWater App Code	<input type="text"/>	<input type="text"/>	<input type="text"/>
GeoPermit	<input type="text"/>	<input type="text"/>	<input type="text"/>	Industrial	<input type="text"/>	<input type="text"/>	<input type="text"/>
MWF	<input type="text"/>	<input type="text"/>	<input type="text"/>	Transfer	<input type="text"/>	<input type="text"/>	<input type="text"/>
WSP	<input type="text"/>	<input type="text"/>	<input type="text"/>	SWater Conduct Code	<input type="text"/>	<input type="text"/>	<input type="text"/>
HHSS	<input type="text"/>			Other	<input type="text"/>		
HHSS PWS ID	<input type="text"/>			ITN	<input type="text"/>		
NDEQ	<input type="text"/>						

5. Purpose

Purpose of Well:

Other Use:

Notes:

Replacement/Decommission Information

7. Replacement Well Information

A. Is This well a Replacement well? (State Statute): Times Replaced: Well Considered a replacement by NRD?:

B. Registration number of original well as submitted by contractor: If not registered, date original well was constructed:

C. Original well last operated: D. Replacement well is feet from original well.

E. Original well pump column size: inches. Original Well Information:
 Well ID:
 Registration Number:

F. Original water well decommissioned
 Original water well was modified
 I hereby certify that the original water well will be decommissioned within 180 days after such construction of the replacement water well.

I hereby certify that the original water well will be modified and equipped to pump 50 gallons per minute or less within 180 days after such construction of the replacement water well.

Livestock
 Monitoring
 Observation
 Nonconsumptive or de minimus use approved by the applicable natural resources district.

Owner is not yet sure if they want to decommission or modify original well within 180 days.

G. Location of water use of original well:

Decommission Information

Decommission Date:

Pump/Construction Information

8. Pumps

A. Is Pump installed at this time? Yes Pump Present but Well Inactive: NoFree Flowing Well: No Well active, no pump installed: NoB. License No.

Pump Installer:

Contact Id	First Name	Last Name	Contact Type	License Information
148154	Dustin L	Nissen	Water Well Professional	39623

Pump Installer Firm:

Contact Id	First Name	Last Name	Entity Type	License Information
145411		Sargent Drilling	Water Well Entity	Employer ID: 709732

C. Pumping Rate gallons per minute. D. Pumping water level feet.E. Drop pipe diameter inches. F. Length of pipe in feet.G. Pump equipment installed: H. Pump Brand/Type I. Will this well be used to pump 50 gpm or less? Yes

9. Construction

A. Total well depth: feet. B. Static water level feet.C. Well Construction Began: D. Well Construction Completed Days To Register: E. Bore hole diameter in inches. Top Bottom F. Casing and Screen Joints are: Other Joints description: H. Total Estimate Capacity of Well gallons per minute. I. Pumping water level at capacity: feet.

Casing & Screen

10. Case/Screen

Well Construction (Casing & Screen) - c, d, e & f measurements should be in inches to three decimal places:

Record Count =

WellID	FromDepth*	ToDepth*	Case/Screen	InsideDiam	OutsideDiam	CaseThickness	ScrnSlotSize	Material	ScreenTname
278954	0	7	casing	4.85	5.56	0.26		Steel	Steel
278954	7	177	casing	3.92	4.5	0.21		Plastic	PVC
278954	177	197	screen	3.92	4.5	0.21	0.02	Plastic	PVC

* are in Feet, all else is in inches

Grout and Gravel Pack

11. Grout/Gravel

Grout and Gravel Pack:

Record Count =

WellID	FromDepth*	ToDepth*	Grout/Gravel	Material Description(1)	Volume & Type Grout(3)	Quantity Gravel(2)
278954	0	120	grout	Bentonite seal	2.5	
278954	120	197	gravel	Co Gravel		1SS

* are in Feet, all else is in inches

1:Description of gravel pack, i.e. engineered gravel pack, or gravel pit description (1/4 down) or brand name (best sand) natural formation, drilling cuttings, soil backfill

2:Quantity #cubic yards, #Tons, #Sacks - (for drilling cuttings and soil backfill estimate quantity) Calculation assistance available on web

3:Volume & Type: #gallons of a slurry, #Barrels of a slurry, #sacks used in the slurry, #Bags of non-slurry bentonite (chip-pellet-granular)

Geologic Information

12. Geologs

Well Geologic Materials Logged

WellID	FromDepth*	ToDepth*	Materials Drilled	Density/Hardness	Color	Other Materials, Colors, Drilling Action, Note
278954	0	20	Top Soil	Loose	Brown	and clay
278954	20	40	Clay	Dense/Stiff	Brown	with fine/med sand layer
278954	40	60	Clay	Dense/Stiff	Brown	and tan with sand layer
278954	60	72	Fine Sand	Loose	Tan	with clay strips
278954	72	86	Sand fine-med	Loose	Tan	/coarse sand and fine gravel
278954	86	95	Clay with Sand/Pebbles	Dense/Stiff	Tan	
278954	95	103	Sand fine-med	Loose	Tan	
278954	103	120	Sand fine-med	Loose	Tan	/c sand and fine gravel w/ med gravel & clay strip
278954	120	127	Sand fine-med	Loose	Tan	/coarse sand and fine/med gravel
278954	127	131	Clay	Dense/Stiff	Brown	
278954	131	138	Sand fine-med	Loose	Tan	/coarse sand and fine/med/coarse gravel
278954	138	143	Clay	Dense/Stiff	Blue	
278954	143	157	Sand fine-med	Loose	Tan	/coarse sand and fine gravel
278954	157	160	Clay	Dense/Stiff	Blue	
278954	160	180	Sand fine-med	Loose	Tan	/coarse sand & fine/med gravel w/ coarse gravel
278954	180	200	Sand fine-med	Loose	Tan	/coarse sand and f/m gravel with gray clay strip
278954	200	218	Sand fine-med	Loose	Tan	/coarse sand and fine to med gravel
278954	218	220	Clay	Dense/Stiff	Brown	

* are in Feet