



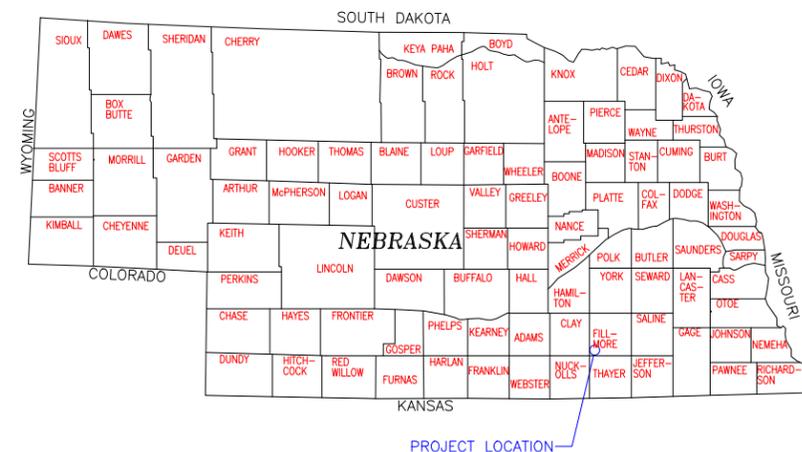
DUCKS UNLIMITED

# DUCKS UNLIMITED PROJECT

## PAUL AG (MILLERS POND WPA) RESTORATION

LOCATED IN THE SE<sup>1</sup>/<sub>4</sub> OF SECTION 23  
TOWNSHIP 5N, RANGE 4W, 6TH P.M.  
FILLMORE COUNTY, NEBRASKA

IN COOPERATION WITH  
NRCS, RWBJV, USFWS, NAWCA, NET, BEF



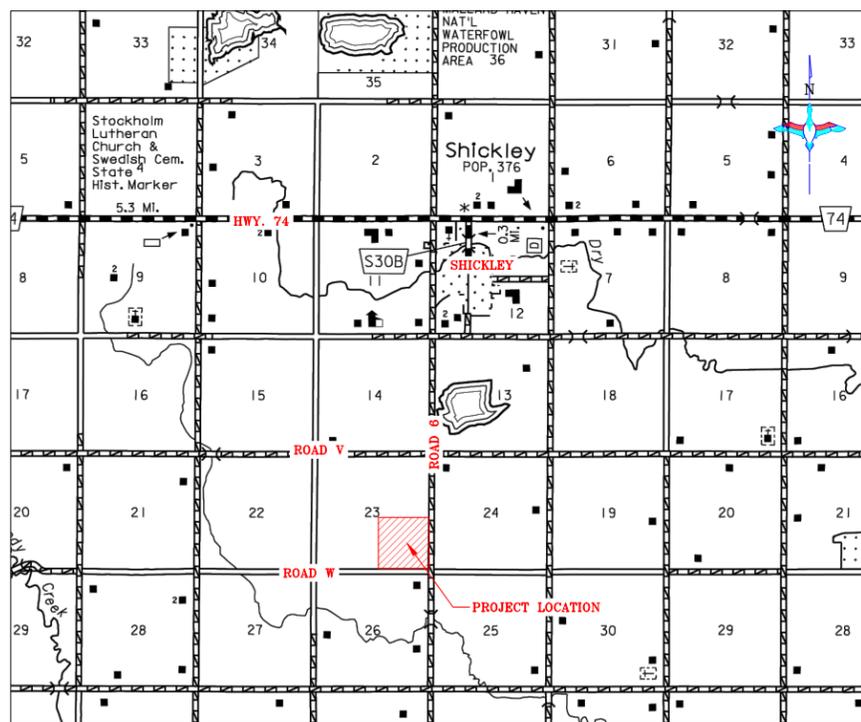
- SPECIFICATIONS**
- 101 GENERAL CONDITIONS
  - 102 SUPPLEMENTAL CONDITIONS
  - 201 MOBILIZATION
  - 202 SITE PREPARATION
  - 203 EXCAVATION
  - 301 WATER CONTROL STRUCTURES
  - 302 STRUCTURE AND CULVERT APPURTENANCES
  - 303 CULVERT AND PIPE INSTALLATION
  - 304 CAST-IN-PLACE REINFORCED CONCRETE
  - 305 RIPRAP, REVETMENT & AGGREGATE PLACEMENT
  - 311 REMOVAL OF EXISTING CULVERTS AND STRUCTURES
  - 317 FENCING

- PLAN INDEX**
- 1 LOCATION & VICINITY MAPS
  - 2 OVERALL PLAN
  - 3 NORTH SITE PLAN
  - 4 SOUTH SITE PLAN
  - 5 WCS REPLACEMENT DETAIL
  - 6 WCS FABRICATION DETAIL

**ESTIMATED QUANTITIES**

MOBILIZATION	1 L.S.
SEDIMENT REMOVAL	
NORTH	4,880 C.Y.-P**
SOUTH	36,090 C.Y.-P**
TOTAL	40,970 C.Y.-P**
60"x30", 4' TALL ALUMINUM INLET RISER	1 EA.
36"Ø CORRUGATED ALUMINUM PIPE	35 L.F.-A*
DU CLASS II RIPRAP	5 C.Y.-P**
RISER AND PIPE REMOVAL	1 L.S.
FENCE (REMOVE AND STOCKPILE)	2,790 L.F.-A*

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

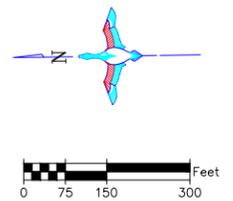
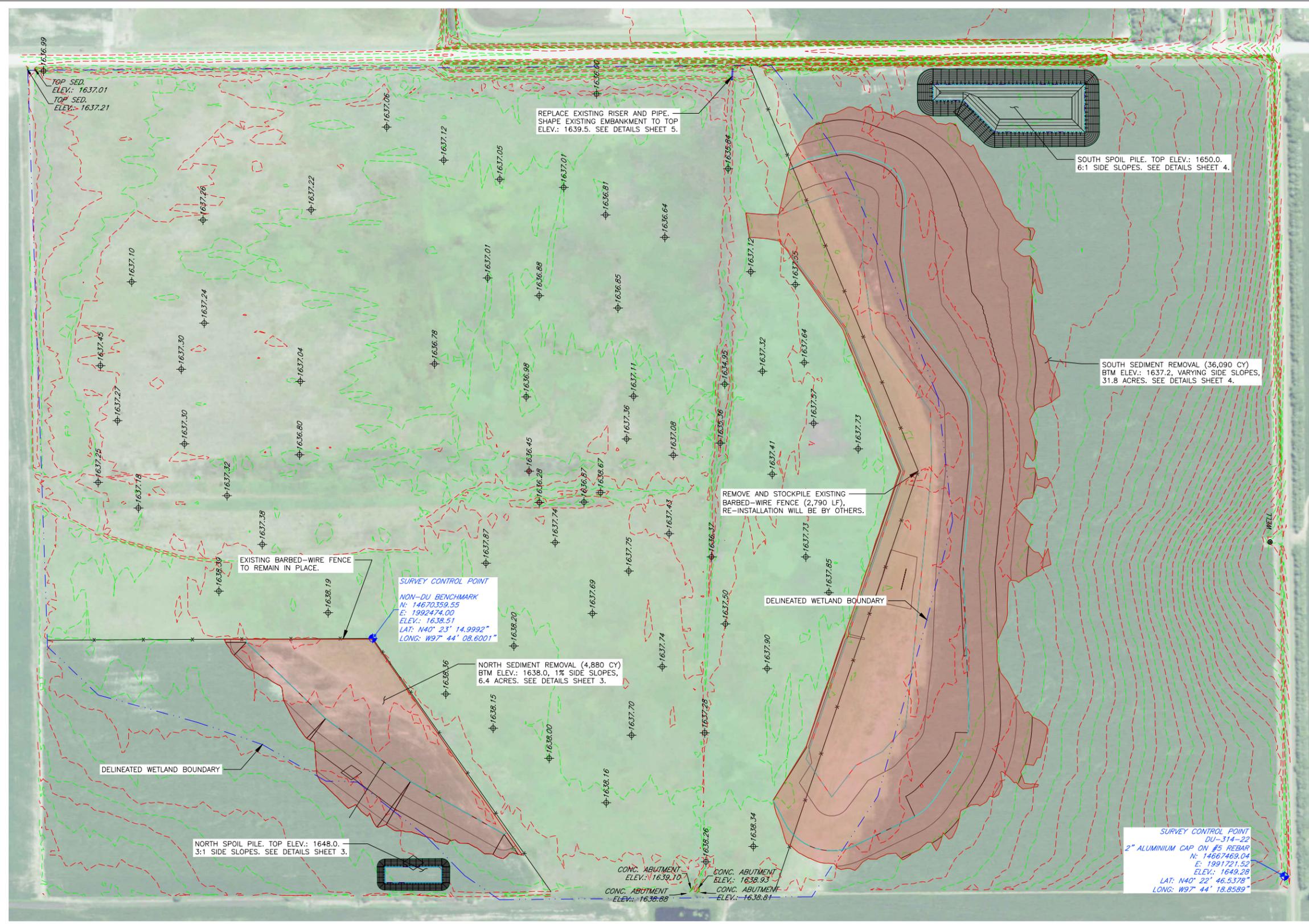
ALL WRITTEN SCALES ARE ACCURATE ON 24x36 INCH SHEETS

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.

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

K:\Land Projects\NE-298-100 Paul Ag (Millers Pond WPA) Restoration\Final\NE-298-1 Paul Ag (Millers Pond WPA) v5.dwg

<p>DUCKS UNLIMITED INC. GPR-NEBRASKA FIELD OFFICE 2121 N. WEBB RD., SUITE 309 GRAND ISLAND, NE 68803</p>	SEC. 23-T5N-R4W	FILLMORE COUNTY, NE
	PROJECT NO. NE-298-100	DESIGNED BY: CDC
PAUL AG (MILLERS POND WPA) RESTORATION	DRAWN BY: CDC	
LOCATION & VICINITY MAPS	SURVEYED BY: CC/KU	
DATE: 3/27/2026	CHECKED BY: MMM	
SHEET NO. 1 OF 6	APPROVED BY:	CERTIFICATE OF AUTHORIZATION NO.:



- 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.
- SEDIMENT REMOVAL NOTES:**
1. EXCAVATION AREA SHALL BE HAYED OR MOWED PRIOR TO EXCAVATION. THIS SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "EXCAVATION".
  2. REMOVAL, STOCKPILING, AND RESPREADING OF TOPSOIL WITHIN THE EXCAVATION AND SPOIL AREAS IS NOT REQUIRED.
  3. ENGINEER WILL PROVIDED STAKING FOR THE BOTTOM TOE OF EXCAVATION AREA AND TOP SHOULDER OF SPOIL AREA. ADDITIONAL VERTICAL CONTROL POINTS WILL BE SET UPON REQUEST.
  4. HAUL ROUTES BETWEEN EXCAVATION AND SPOIL AREAS SHALL BE KEEP TO A MINIMUM.
  5. PLACEMENT AND SHAPING OF SPOIL SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "EXCAVATION"
  6. AFTER FINAL GRADE OF THE EXCAVATION AND SPOIL AREA HAS BEEN VERIFIED BY A DU FIELD ENGINEER, TWO PASSES WITH A FINISHING DISK WILL BE REQUIRED WITHIN THE WORK AREAS AND HAUL ROUTES. THIS SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "EXCAVATION".

- ABBREVIATIONS LIST**
- B/LDC = BUILDING CORNER
  - BRK = BREAK
  - BTM. = BOTTOM
  - C.L. = CENTER LINE
  - CMP = CORRUGATED METAL PIPE ROUND
  - CMPA = CORRUGATED METAL PIPE ARCH
  - CONC. = CONCRETE
  - DIA. = DIAMETER
  - E = EASTING COORDINATE OR EAST
  - ELEV. = ELEVATION
  - EMB. = EMBANKMENT
  - EPAV = EDGE OF PAVEMENT
  - EX. = EXISTING
  - EXIST. = EXISTING
  - FES = FLARED END SECTION
  - FX = FENCE
  - GA. = GAUGE
  - G.W. = GUY WIRE
  - INV = INVERT
  - LAT = LATITUDE (WGS84)
  - LONG = LONGITUDE (WGS84)
  - L.F. = LINEAR FEET
  - MISC = MISCELLANEOUS
  - N = NORTHING COORDINATE OR NORTH
  - NFES = NON-FLARED END SECTION
  - O.C. = ON CENTER
  - O.C.E.W. = ON CENTER EACH WAY
  - OHE = OVERHEAD ELECTRIC
  - P.C. = POINT OF INTERSECTION
  - P.I. = POINT OF INTERSECTION
  - P.T. = POINT OF TANGENCY
  - RCP = REINFORCED CONCRETE PIPE
  - RD = ROAD
  - REM. = REMOVE
  - REQ'D = REQUIRED
  - R.O.W. = RIGHT OF WAY
  - S = SOUTH
  - SED. = SEDIMENT
  - SHLD = SHOULDER
  - SLP = SLOPE
  - STPLG = STOPLOG
  - TBM = TEMPORARY BENCHMARK
  - TEL = TELEPHONE/COMMUNICATIONS
  - UG = UNDERGROUND
  - VEG = VEGETATION
  - W = WEST OR WITH
  - WCS = WATER CONTROL STRUCTURE
  - WL = WATER LEVEL
  - WS = WATER SHOT

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

**GENERAL NOTES**

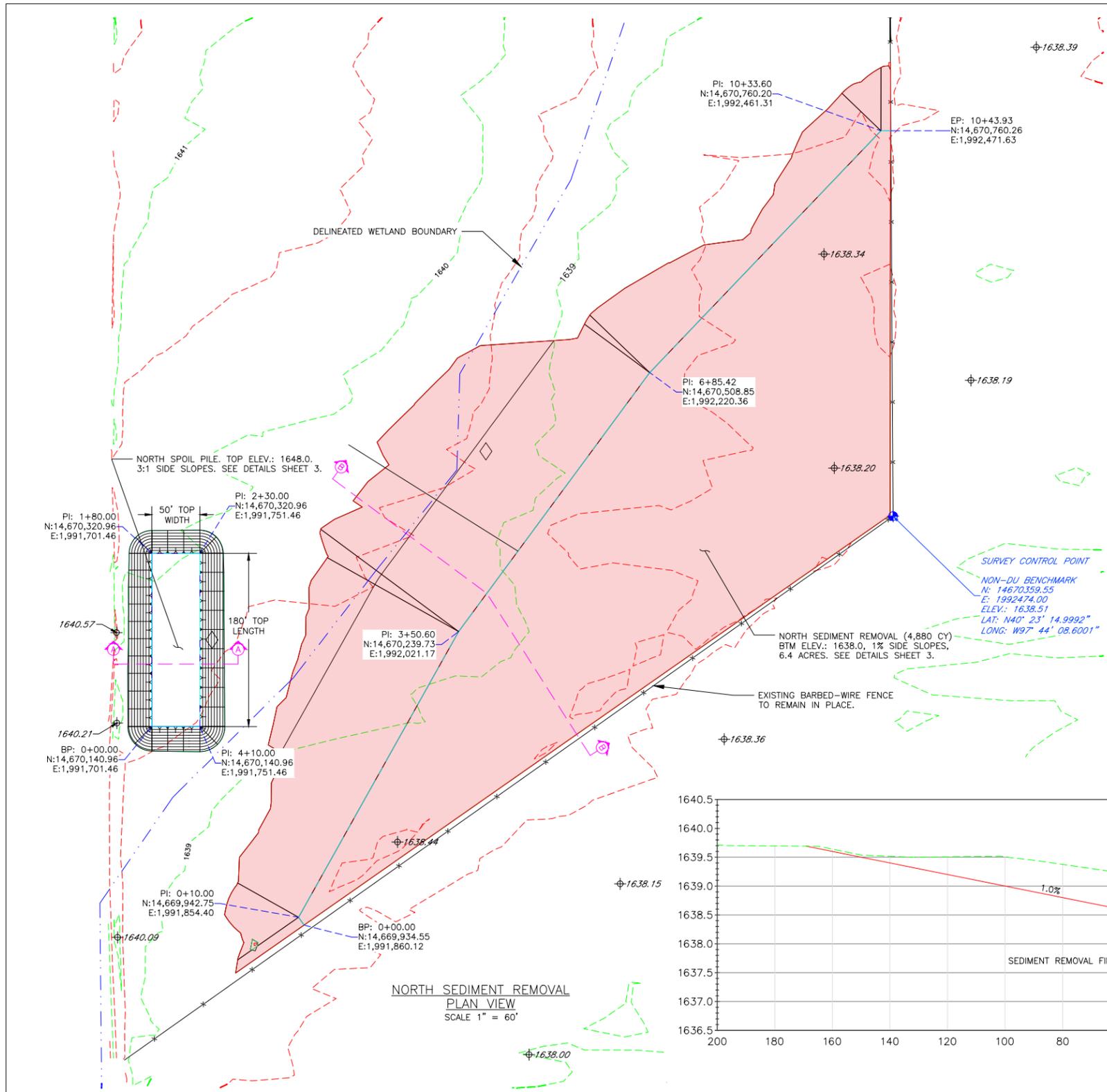
1. ONE HALF FOOT CONTOUR INTERVAL SHOWN.
2. 2018 1 METER RESOLUTION AERIAL IMAGERY IS SHOWN.
3. ITALICIZED TEXT DENOTES EXISTING FEATURE OR EXISTING ELEVATION.
4. SPOT ELEVATIONS INDICATED BY  $\phi$  XXXX.X ARE RANDOMLY LOCATED AND ARE BASED ON SURFACE MODEL ELEVATIONS.

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, USER AGREES THAT DUCKS UNLIMITED, INC. IS NOT RESPONSIBLE FOR THEIR USE OF THE MATERIAL, DATA AND INFORMATION OR THE RESULTS THEREOF.

**OVERALL PLAN VIEW**  
SCALE 1" = 150'

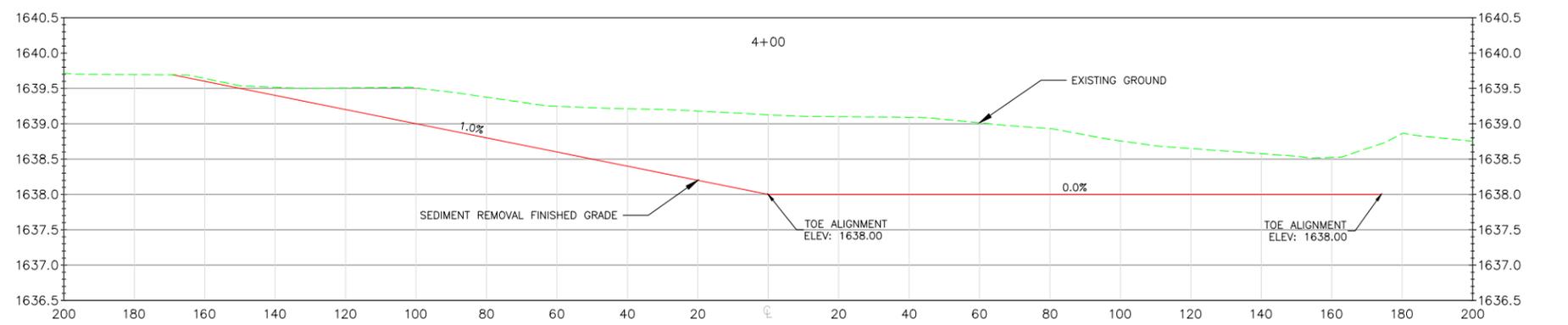
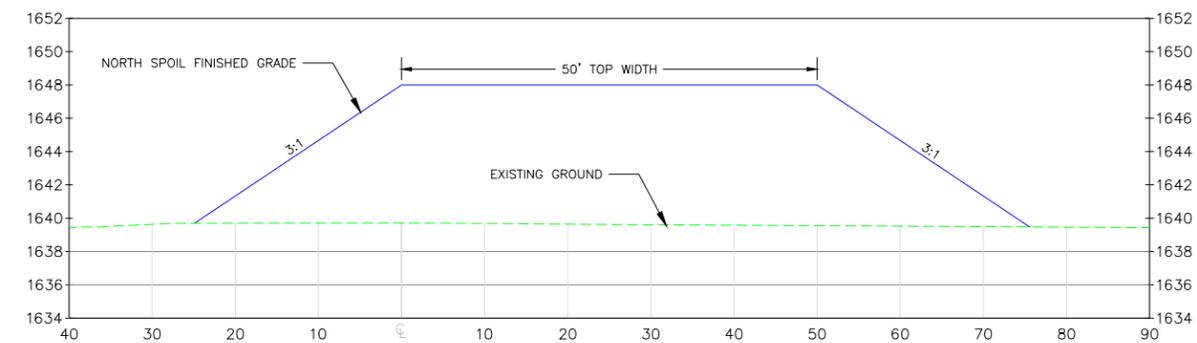
HORIZONTAL AND VERTICAL CONTROL OPUS SOLUTION- COORDINATES ARE UTM ZONE 14 GRID COORDINATES IN US FEET [NAD83]. THEY WERE ESTABLISHED FROM THE WGS84 ELLIPSOID WITH INFORMATION FROM A TRIMBLE XX SURVEY GRADE GPS RECEIVER ON APRIL 12, 2019 AT DUCKS UNLIMITED CONTROL POINT DU-308-19 (NOT SHOWN) AND CALIBRATED TO AN OPUS POSITION OCCUPIED FOR 2 HOURS AND 43 MINUTE(S) AND SENT TO NGS FOR SOLUTION. THE VERTICAL CONTROL CAME FROM THE SAME SOLUTION USING GEOID 12B CONUS IN THE NAVD83. THE FULL OPUS SOLUTION REPORT IS ON FILE AT THE DUCKS UNLIMITED ENGINEERING DEPARTMENT IN GRAND ISLAND, NEBRASKA.

<p><b>DUCKS UNLIMITED INC.</b> GPR-NEBRASKA FIELD OFFICE 2121 N. WEBB RD., SUITE 309 GRAND ISLAND, NE 68803</p>	SEC. 23-TSN-R4W	FILLMORE COUNTY, NE
	PROJECT NO. NE-298-100	DESIGNED BY: CDC
	PAUL AG (MILLERS POND WPA) RESTORATION OVERALL PLAN	DRAWN BY: CDC
		SURVEYED BY: CC/KU CHECKED BY: MMM
DATE: 3/27/2026	SHEET NO. 2 OF 6	APPROVED BY: _____ CERTIFICATE OF AUTHORIZATION NO.: _____



**NORTH TOE ALIGNMENT**

STATION	NORTHING	EASTING	ELEV.	TYPE
0+00.00	14,669,934.55	1,991,860.12	1637.2	PI
0+10.00	14,669,942.75	1,991,854.40	1638.2	PI
3+50.60	14,670,239.73	1,992,021.17	1639.2	PI
6+85.42	14,670,508.85	1,992,220.36	1640.2	PI
10+33.60	14,670,760.20	1,992,461.31	1641.2	PI
10+43.93	14,670,760.26	1,992,471.63	1642.2	PI
10+43.93	14,670,760.26	1,992,471.63	1643.2	PI



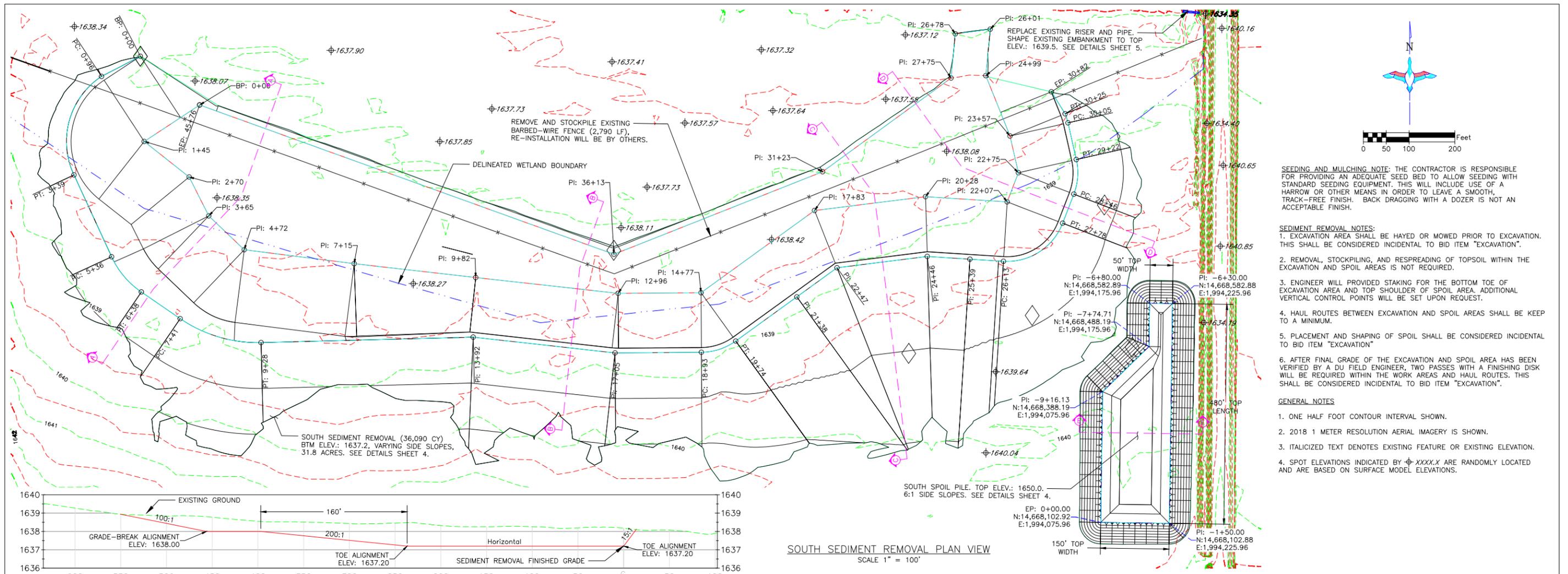
- GENERAL NOTES**
- ONE HALF FOOT CONTOUR INTERVAL SHOWN.
  - 2018 1 METER RESOLUTION AERIAL IMAGERY IS SHOWN.
  - ITALICIZED TEXT DENOTES EXISTING FEATURE OR EXISTING ELEVATION.
  - SPOT ELEVATIONS INDICATED BY  $\phi$ -XXXX.X ARE RANDOMLY LOCATED AND ARE BASED ON SURFACE MODEL ELEVATIONS.

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 THE MATERIAL, DATA AND INFORMATION IS AT THE USER'S SOLE RISK. BY USING ANY OF THIS MATERIAL, DATA AND INFORMATION, USER AGREES THAT DUCKS UNLIMITED, INC. IS NOT RESPONSIBLE FOR THEIR USE OF THE MATERIAL, DATA AND INFORMATION OR THE RESULTS THEREOF.

**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.

- SEDIMENT REMOVAL NOTES:**
- EXCAVATION AREA SHALL BE HAYED OR MOWED PRIOR TO EXCAVATION. THIS SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "EXCAVATION".
  - REMOVAL, STOCKPILING, AND RESPREADING OF TOPSOIL WITHIN THE EXCAVATION AND SPOIL AREAS IS NOT REQUIRED.
  - ENGINEER WILL PROVIDE STAKING FOR THE BOTTOM TOE OF EXCAVATION AREA AND TOP SHOULDER OF SPOIL AREA. ADDITIONAL VERTICAL CONTROL POINTS WILL BE SET UPON REQUEST.
  - HAUL ROUTES BETWEEN EXCAVATION AND SPOIL AREAS SHALL BE KEPT TO A MINIMUM.
  - PLACEMENT AND SHAPING OF SPOIL SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "EXCAVATION".
  - AFTER FINAL GRADE OF THE EXCAVATION AND SPOIL AREA HAS BEEN VERIFIED BY A DU FIELD ENGINEER, TWO PASSES WITH A FINISHING DISK WILL BE REQUIRED WITHIN THE WORK AREAS AND HAUL ROUTES. THIS SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "EXCAVATION".

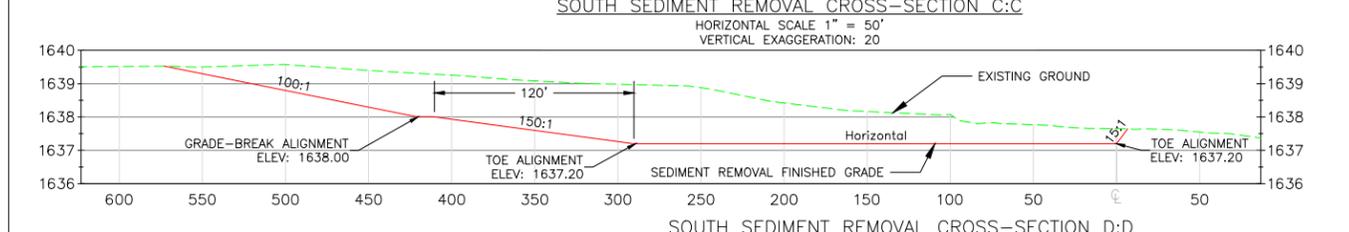
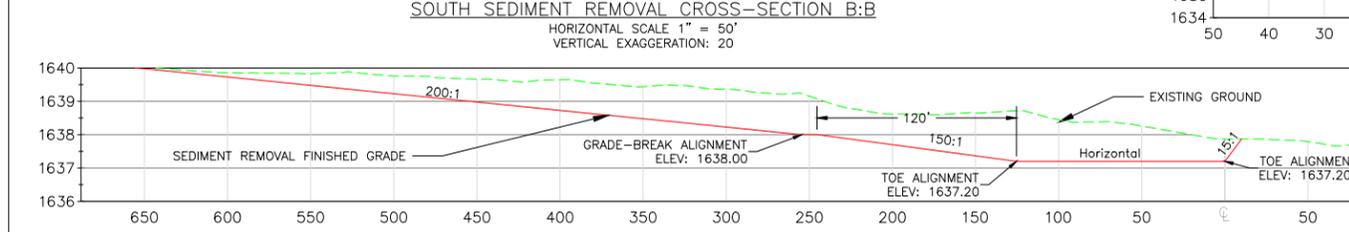
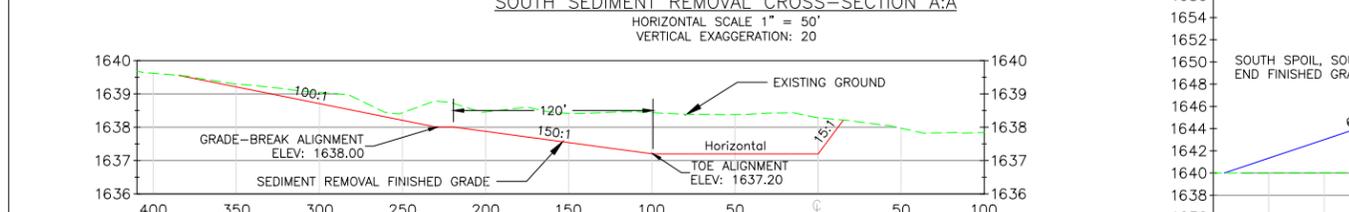
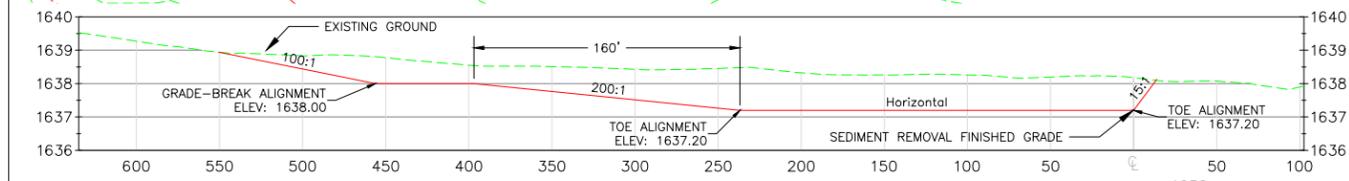
<p><b>DUCKS UNLIMITED INC.</b>          GPR-NEBRASKA FIELD OFFICE          2121 N. WEBB RD., SUITE 309          GRAND ISLAND, NE 68803</p>	SEC. 23-T5N-R4W	FILLMORE COUNTY, NE
	PROJECT NO. NE-298-100	DESIGNED BY: CDC
	PAUL AG (MILLERS POND WPA) RESTORATION	DRAWN BY: CDC
	NORTH SITE PLAN	SURVEYED BY: CC/KU
DATE: 3/27/2026	SHEET NO. 3 OF 6	CHECKED BY: MMM
	APPROVED BY:	CERTIFICATE OF AUTHORIZATION NO.:



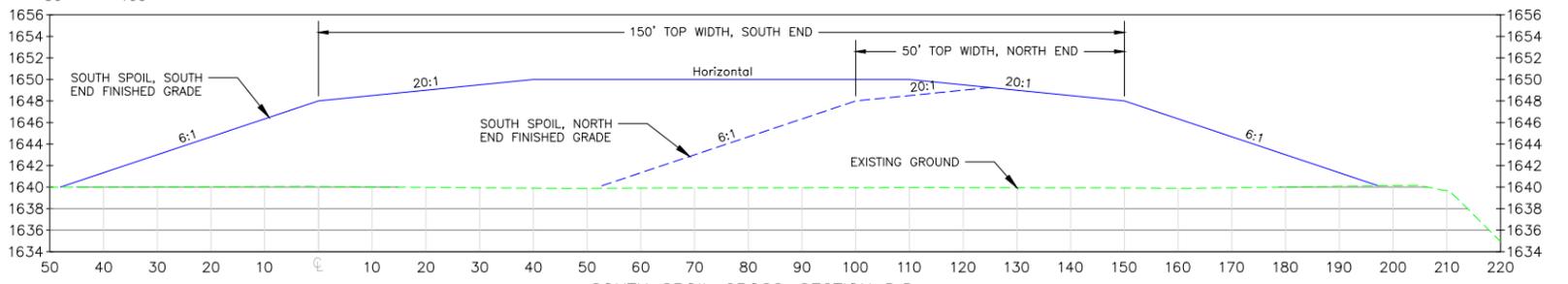
**SEEDING AND MULCHING NOTE:** THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN ADEQUATE SEED BED TO ALLOW SEEDING WITH STANDARD SEEDING EQUIPMENT. THIS WILL INCLUDE USE OF A HARROW OR OTHER MEANS IN ORDER TO LEAVE A SMOOTH, TRACK-FREE FINISH. BACK DRAGGING WITH A DOZER IS NOT AN ACCEPTABLE FINISH.

- SEDIMENT REMOVAL NOTES:**
- EXCAVATION AREA SHALL BE HAYED OR MOWED PRIOR TO EXCAVATION. THIS SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "EXCAVATION".
  - REMOVAL, STOCKPILING, AND RESPREADING OF TOPSOIL WITHIN THE EXCAVATION AND SPOIL AREAS IS NOT REQUIRED.
  - ENGINEER WILL PROVIDED STAKING FOR THE BOTTOM TOE OF EXCAVATION AREA AND TOP SHOULDER OF SPOIL AREA. ADDITIONAL VERTICAL CONTROL POINTS WILL BE SET UPON REQUEST.
  - HAUL ROUTES BETWEEN EXCAVATION AND SPOIL AREAS SHALL BE KEEP TO A MINIMUM.
  - PLACEMENT AND SHAPING OF SPOIL SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "EXCAVATION"
  - AFTER FINAL GRADE OF THE EXCAVATION AND SPOIL AREA HAS BEEN VERIFIED BY A DU FIELD ENGINEER, TWO PASSES WITH A FINISHING DISK WILL BE REQUIRED WITHIN THE WORK AREAS AND HAUL ROUTES. THIS SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "EXCAVATION".

- 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  $\phi$ -XXXX.X ARE RANDOMLY LOCATED AND ARE BASED ON SURFACE MODEL ELEVATIONS.



SOUTH SEDIMENT REMOVAL PLAN VIEW  
SCALE 1" = 100'



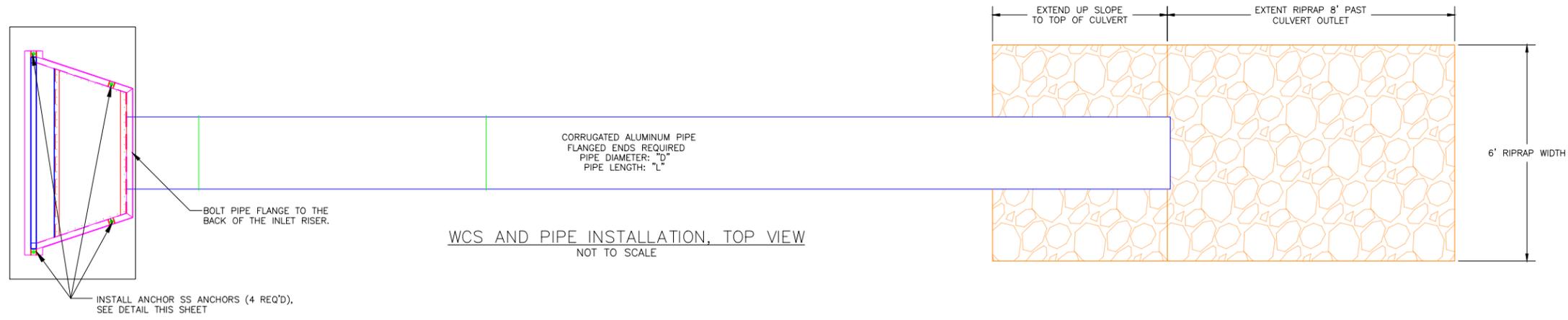
SOUTH SPOIL CROSS-SECTION D:D  
HORIZONTAL SCALE 1" = 15'  
VERTICAL EXAGGERATION: 20

SOUTH TOE ALIGNMENT				SOUTH GRADE-BREAK ALIGNMENT			
STATION	NORTHING	EASTING	ELEV.	STATION	NORTHING	EASTING	ELEV.
0+00.00	14,668,965.82	1,992,092.48	1637.2	0+00.00	14,668,090.28	1,991,961.36	1638.0
1+46.08	14,668,904.42	1,991,972.38	1637.2	0+05.68	14,668,045.14	1,991,877.00	1638.0
2+70.25	14,668,828.30	1,992,071.74	1637.2	3+39.27	14,668,829.28	1,991,819.88	1638.0
3+65.30	14,668,744.06	1,992,115.76	1637.2	5+36.05	14,668,651.75	1,991,904.77	1638.0
4+72.47	14,668,671.19	1,992,194.35	1637.2	6+37.98	14,668,575.78	1,991,970.86	1638.0
7+14.91	14,668,644.28	1,992,435.29	1637.2	7+40.95	14,668,518.81	1,992,056.63	1638.0
9+82.45	14,668,617.80	1,992,701.52	1637.2	9+28.34	14,668,469.07	1,992,234.14	1638.0
12+95.79	14,668,587.78	1,993,013.42	1637.2	13+92.43	14,668,487.55	1,992,697.87	1638.0
14+77.13	14,668,591.67	1,993,194.71	1637.2	17+04.57	14,668,457.65	1,993,008.56	1638.0
17+83.40	14,668,774.64	1,993,440.43	1637.2	18+93.33	14,668,461.69	1,993,197.28	1638.0
20+27.96	14,668,808.35	1,993,682.57	1637.2	19+73.72	14,668,487.26	1,993,272.17	1638.0
22+07.03	14,668,799.60	1,993,861.43	1637.2	21+38.47	14,668,585.51	1,993,404.42	1638.0
22+75.13	14,668,863.52	1,993,884.94	1637.2	22+47.00	14,668,650.48	1,993,491.35	1638.0
23+57.33	14,668,943.41	1,993,865.60	1637.2	24+49.42	14,669,074.42	1,993,810.61	1637.2
24+99.42	14,669,074.42	1,993,810.61	1637.2	26+01.21	14,669,175.86	1,993,818.98	1637.2
26+01.21	14,669,175.86	1,993,818.98	1637.2	26+78.16	14,669,164.82	1,993,742.81	1637.2
26+78.16	14,669,164.82	1,993,742.81	1637.2	27+75.16	14,669,068.16	1,993,734.64	1637.2
27+75.16	14,669,068.16	1,993,734.64	1637.2	31+22.69	14,668,859.69	1,993,456.77	1637.2
31+22.69	14,668,859.69	1,993,456.77	1637.2	36+13.25	14,668,672.99	1,993,003.13	1637.2
36+13.25	14,668,672.99	1,993,003.13	1637.2	45+76.14	14,668,965.82	1,992,092.48	1637.2
45+76.14	14,668,965.82	1,992,092.48	1637.2	45+76.14	14,668,965.82	1,992,092.48	1637.2
45+76.14	14,668,965.82	1,992,092.48	1637.2				

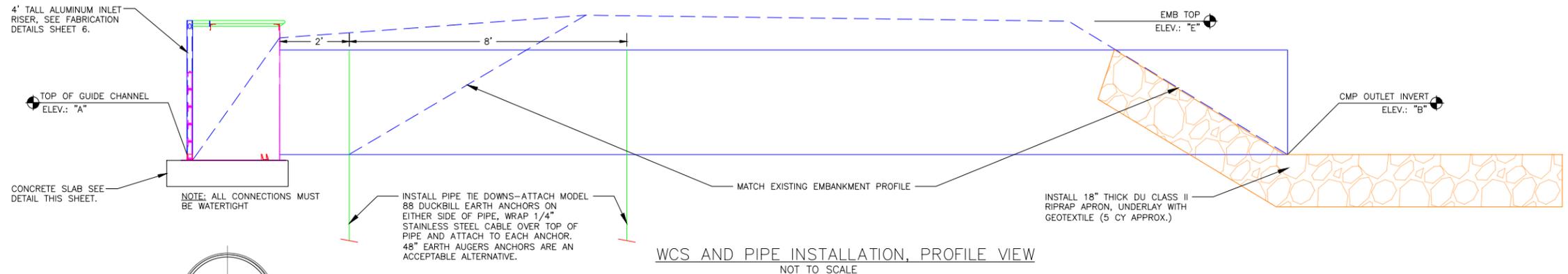
THIS MATERIAL, DATA AND INFORMATION IS THE PROPERTY OF DUCKS UNLIMITED, INC. IT MAY NOT BE USED OR REPRODUCED FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF AN AUTHORIZED AGENT OF DUCKS UNLIMITED, INC. DUCKS UNLIMITED, INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND REGARDING THIS MATERIAL,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

SOUTH SEDIMENT REMOVAL CROSS-SECTION D:D  
HORIZONTAL SCALE 1" = 50'  
VERTICAL EXAGGERATION: 20

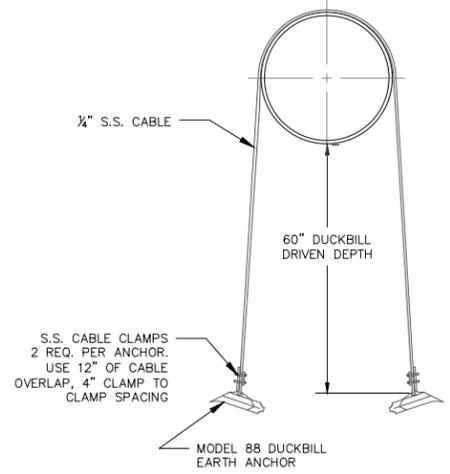
<p>DUCKS UNLIMITED INC. GPR-NEBRASKA FIELD OFFICE 2121 N. WEBB RD., SUITE 309 GRAND ISLAND, NE 68803</p>	SEC. 23-TSN-R4W	FILLMORE COUNTY, NE
	PROJECT NO. NE-298-100	DESIGNED BY: CDC
	PAUL AG (MILLERS POND WPA) RESTORATION	DRAWN BY: CDC
	SOUTH SITE PLAN	SURVEYED BY: CC/KU
DATE: 3/27/2026	SHEET NO. 4 OF 6	CHECKED BY: MMM
	APPROVED BY:	CERTIFICATE OF AUTHORIZATION NO.:



WCS AND PIPE INSTALLATION, TOP VIEW  
NOT TO SCALE

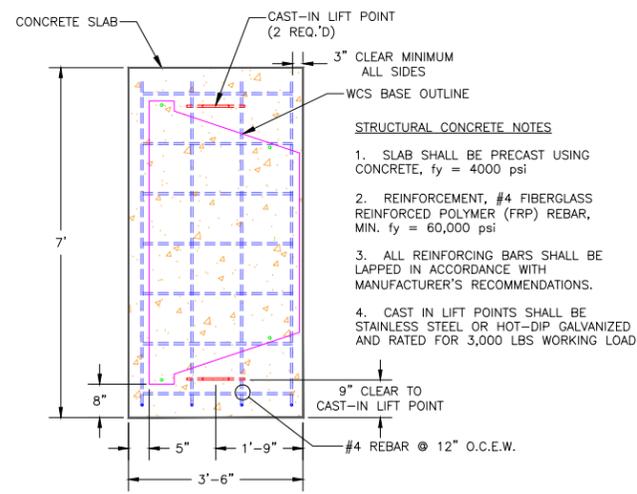


WCS AND PIPE INSTALLATION, PROFILE VIEW  
NOT TO SCALE

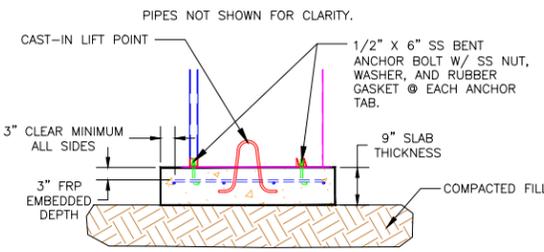


- NOTES:**
- REQ'D ON L1 SECTIONS AS SPECIFIED (SEE TABLE). INSTALL ANCHOR 2' FROM END OF PIPE, 6' C-C ON EXPOSED PIPE, AND 8' C-C ON BURIED PIPE.
  - DUCKBILL EARTH ANCHORS MAY COME WITH CABLES ATTACHED. IF EXTRA LENGTH IS REQUIRED, INSTALL (2) S.S. CABLE CLAMPS AS SHOWN. U-BOLT MUST GO OVER THE TAIL END OF THE CABLE.
  - INSTALL ANCHORS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

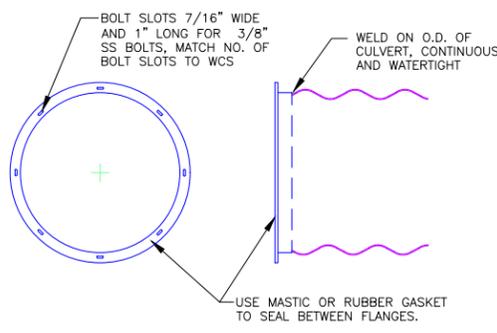
PIPE ANCHOR DETAIL  
NOT TO SCALE



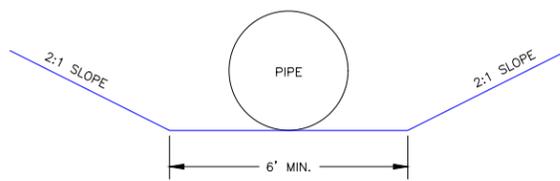
- STRUCTURAL CONCRETE NOTES**
- SLAB SHALL BE PRECAST USING CONCRETE,  $f_y = 4000$  psi
  - REINFORCEMENT, #4 FIBERGLASS REINFORCED POLYMER (FRP) REBAR, MIN.  $f_y = 60,000$  psi
  - ALL REINFORCING BARS SHALL BE LAPPED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
  - CAST IN LIFT POINTS SHALL BE STAINLESS STEEL OR HOT-DIP GALVANIZED AND RATED FOR 3,000 LBS WORKING LOAD



WATER CONTROL STRUCTURE  
CONCRETE SLAB DETAILS  
NOT TO SCALE



FLANGE FOR CONNECTING  
CORRUGATED ALUMINUM PIPES  
NOT TO SCALE



PIPE TRENCH DETAIL  
NOT TO SCALE

**CONSTRUCTION NOTES:**

- EXISTING RISER AND PIPE SHALL BE REMOVED AND DISPOSED OF OFF-SITE. THIS WILL BE CONSIDERED INCIDENTAL TO BID ITEM "RISER AND PIPE REMOVAL".
- PRECAST CONCRETE SLAB AND OUTLET PIPE SHALL BE PLACED ON A LEVEL SURFACE OF COMPACTED SOIL.
- LEVEL STRUCTURE VERTICALLY PRIOR TO PLACING BACKFILL AROUND STRUCTURE AND PIPE BY HAND IN 6" LIFTS, HAND TAMP ONLY. BOARDS SHALL BE PLACED IN THE STRUCTURE PRIOR TO TAMPING. BENTONITE SHALL BE INCORPORATED INTO THE BACKFILL. 15-50LB BAGS OF BENTONITE ARE REQUIRED.
- ALL JOINTS SHALL BE WATERTIGHT. THIS WILL REQUIRE USE OF MASTIC OR RUBBER GASKETS TO SEAL JOINTS.
- STOPLOGS SHALL BE PROVIDED BY THE CONTRACTOR, SEE FABRICATION DETAILS SHEET 6.
- PLANS ARE BASED ON FLASH BOARD RISERS MANUFACTURED BY SEABREEZE CULVERT, INC. TELEPHONE 409-296-4098. ENGINEER APPROVED EQUIVALENT MAY BE USED AS AN ALTERNATIVE.

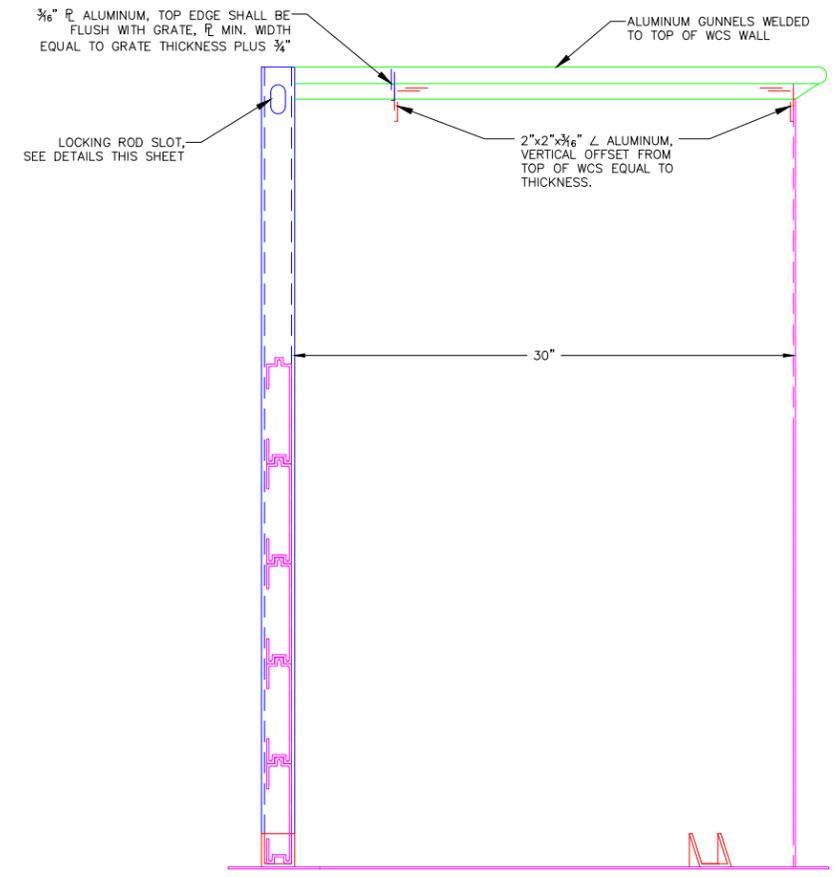
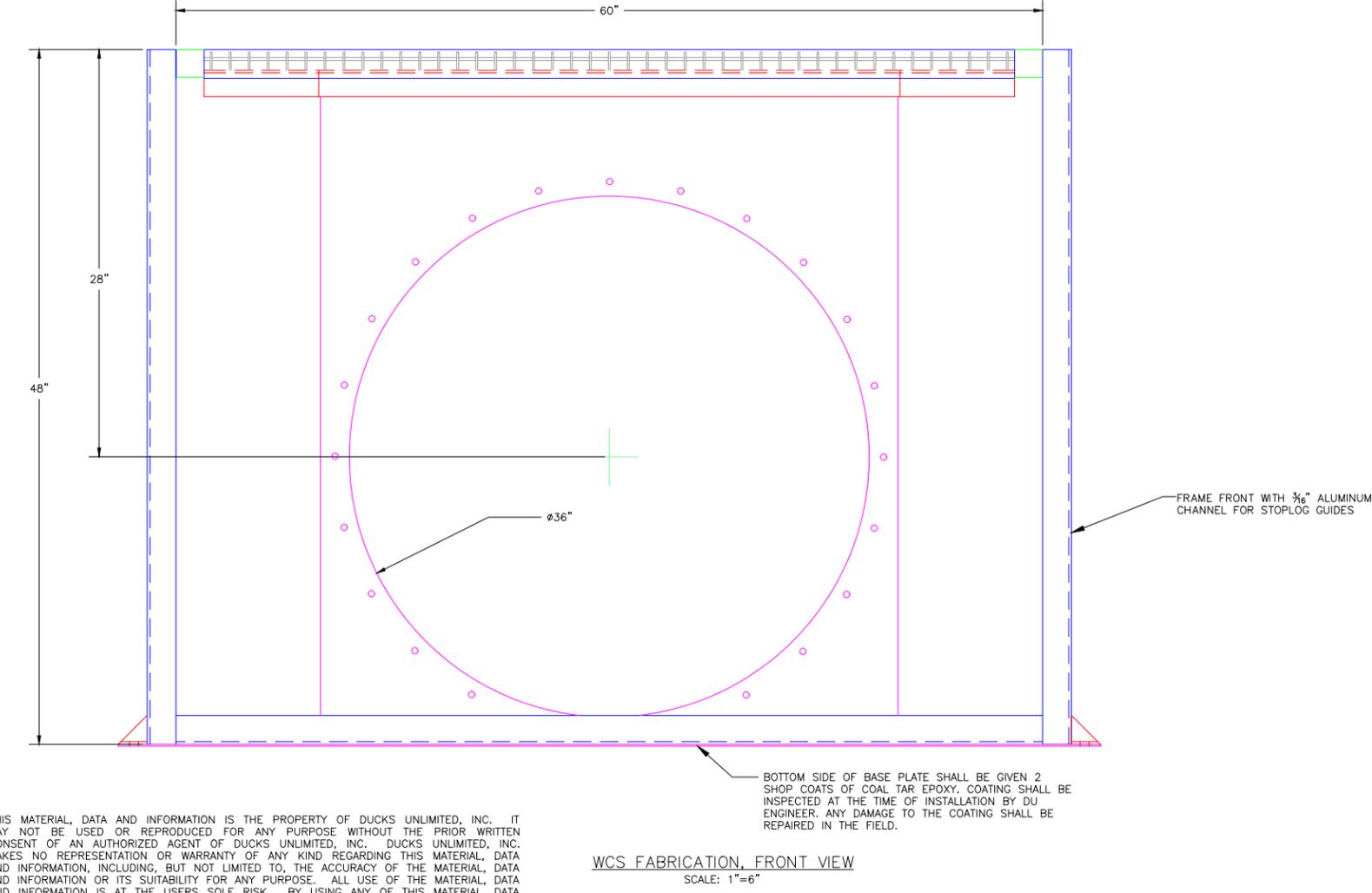
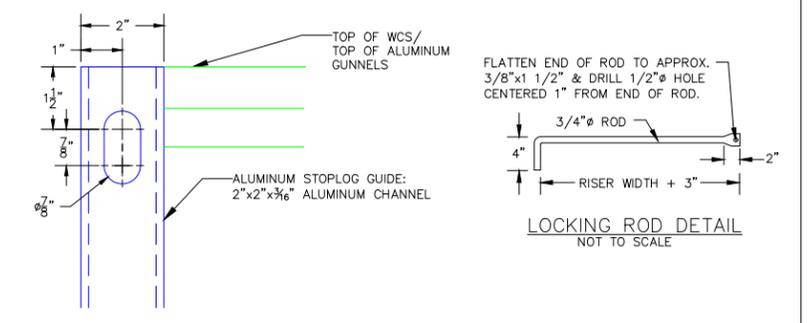
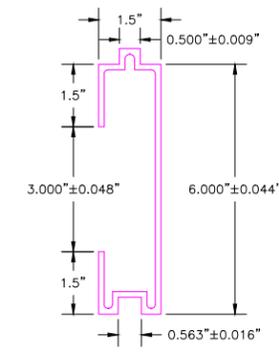
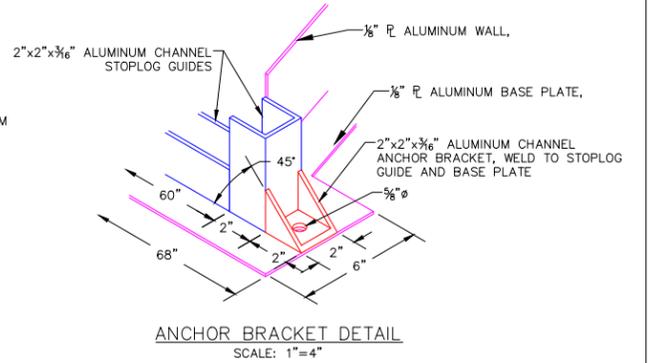
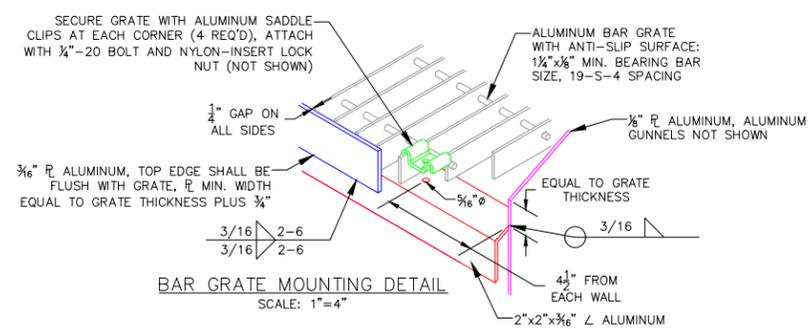
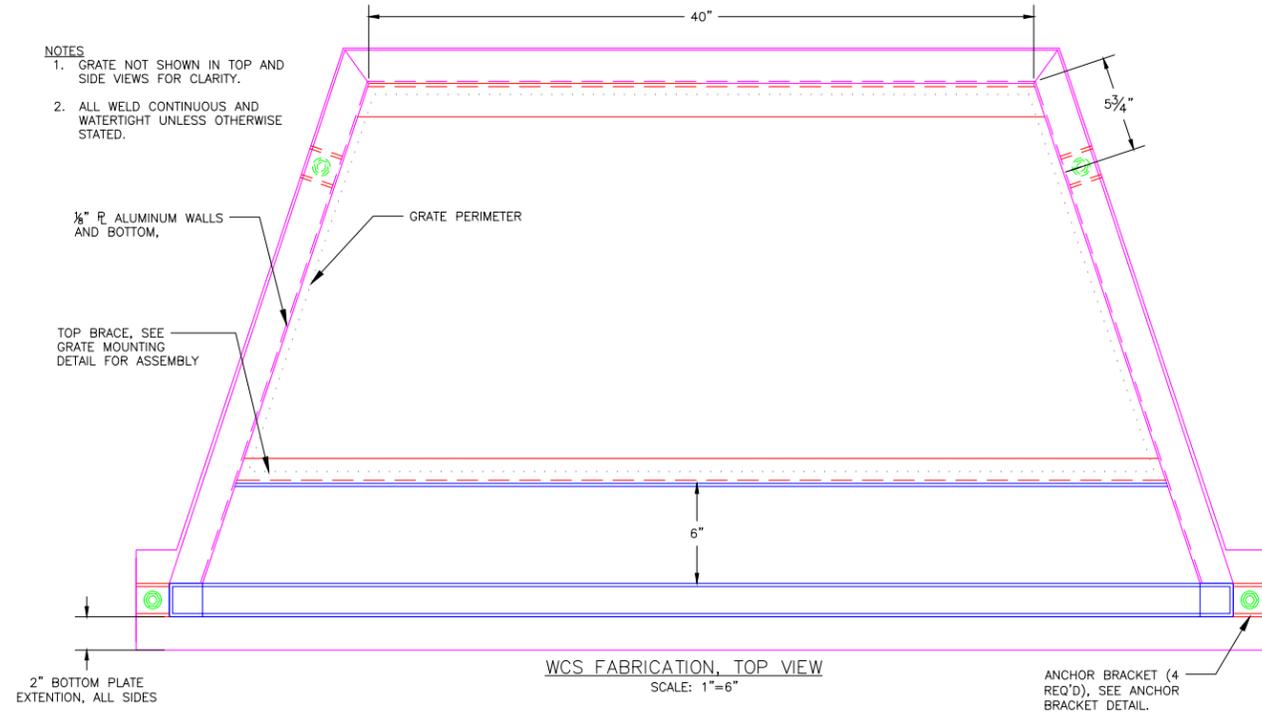
PIPE LENGTH "L" (FT.)	PIPE DIA. "D" (IN.)	UPSTREAM PIPE INVERT "A"	DOWNSTREAM PIPE INVERTS "B"	EMB. TOP "E"	REQUIRED PIPE ANCHOR PAIRS	NO. OF 6" STOPLOGS
35'	36"	1635.50	1635.00	1639.50	2	5

- 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  $\phi$ -XXXX.X ARE RANDOMLY LOCATED AND ARE 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 THE MATERIAL, DATA AND INFORMATION IS AT THE USER'S SOLE RISK. BY USING ANY OF THIS MATERIAL, DATA AND INFORMATION, USER AGREES THAT DUCKS UNLIMITED, INC. IS NOT RESPONSIBLE FOR THEIR USE OF THE MATERIAL, DATA AND INFORMATION OR THE RESULTS THEREOF.

 GPR-NEBRASKA FIELD OFFICE 2121 N. WEBB RD., SUITE 309 GRAND ISLAND, NE 68803	SEC. 23-T5N-R4W	FILLMORE COUNTY, NE
	PROJECT NO. NE-298-100	DESIGNED BY: CDC
	PAUL AG (MILLERS POND WPA) RESTORATION	DRAWN BY: CDC
	WCS REPLACEMENT DETAIL	SURVEYED BY: CC/KU
DATE: 3/27/2026	SHEET NO. 5 OF 6	CHECKED BY: MMM
	APPROVED BY:	CERTIFICATE OF AUTHORIZATION NO.:

- NOTES**
1. GRATE NOT SHOWN IN TOP AND SIDE VIEWS FOR CLARITY.
  2. ALL WELD CONTINUOUS AND WATERTIGHT UNLESS OTHERWISE STATED.



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 THE MATERIAL, DATA AND INFORMATION IS AT THE USER'S SOLE RISK. BY USING ANY OF THIS MATERIAL, DATA AND INFORMATION, USER AGREES THAT DUCKS UNLIMITED, INC. IS NOT RESPONSIBLE FOR THEIR USE OF THE MATERIAL, DATA AND INFORMATION OR THE RESULTS THEREOF.

<p>DUCKS UNLIMITED INC. GPR-NEBRASKA FIELD OFFICE 2121 N. WEBB RD., SUITE 309 GRAND ISLAND, NE 68803</p>	SEC. 23-T5N-R4W	FILLMORE COUNTY, NE
	PROJECT NO. NE-298-100	DESIGNED BY: CDC
	PAUL AG (MILLERS POND WPA) RESTORATION	DRAWN BY: CDC
	WCS FABRICATION DETAIL	SURVEYED BY: CC/KU CHECKED BY: MMM
DATE: 3/27/2026	SHEET NO. 6 OF 6	APPROVED BY: _____ CERTIFICATE OF AUTHORIZATION NO.: