



**DUCKS UNLIMITED**

2114 MIDPOINT DRIVE, SUITE 1  
FORT COLLINS, CO 80525

**ESTIMATED QUANTITIES**

<b>MOBILIZATION:</b>	1 L.S.
<b>SITE PREPARATION (TOP SOIL):</b>	1 L.S.
<b>EXCAVATION:</b>	INCIDENTAL
GRADE WATERWAY #6 (163 C.Y. & 408 L.F.)	
<b>EMBANKMENT CONSTRUCTION:</b>	
CONSTRUCT EMBANKMENT #1 (1472 L.F.)	5628 C.Y.-P**
CONSTRUCT EMBANKMENT #2 (917 L.F.)	3275 C.Y.-P**
CONSTRUCT EMBANKMENT #3 (1593 L.F.)	5384 C.Y.-P**
CONSTRUCT EMBANKMENT #4 (1724 L.F.)	5533 C.Y.-P**
CONSTRUCT EMBANKMENT #5 (873 L.F.)	4398 C.Y. P**
CONSTRUCT EMBANKMENT #6 (1543 L.F.)	1704 C.Y.-P**
(159 C.Y. EMBANKMENT #6 INCIDENTAL CUT)	
CONSTRUCT EMBANKMENT #7 (2512 L.F.)	12812 C.Y.-P**
CONSTRUCT EMBANKMENT #8 (2077 L.F.)	7793 C.Y.-P**
<b>WATER CONTROL STRUCTURES - SUPPLY &amp; INSTALL:</b>	
24"Ø (5' TALL) INLINE WCS	1 EA.
24"Ø (4' TALL) INLINE WCS	5 EA.
24"Ø (3' TALL) INLINE WCS	6 EA.
<b>CULVERTS &amp; PIPE - SUPPLY &amp; INSTALL:</b>	
24"Ø SDR 51 PVC PIPE	697 L.F.-A
24"Ø SDR 51 22.5° PVC ELBOW	4 EA.-P
18"Ø ADS (STOG LOG STORAGE CONTAINERS)	36 L.F.-A
<b>ROCK RIPRAP - SUPPLY &amp; PLACE:</b>	
DU CLASS II ROCK RIPRAP W/ FILTER FABRIC	48 C.Y.-P

L.F.-A - PAYMENT WILL BE BASED ON ACTUAL QUANTITY EXCAVATED, FILLED, REGRADED, CLEANED OUT, OR SUPPLIED AND INSTALLED  
C.Y.-P - PAYMENT WILL BE BASED ON THE PLAN QUANTITY LISTED ABOVE.  
\*\* INCLUDES 20% FOR SHRINKAGE.

**SPECIFICATIONS**

101	GENERAL CONDITIONS
102	SUPPLEMENTAL CONDITIONS
201	MOBILIZATION
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203	EXCAVATION
204	EMBANKMENT CONSTRUCTION
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
401	SOIL EROSION AND POLLUTION CONTROL

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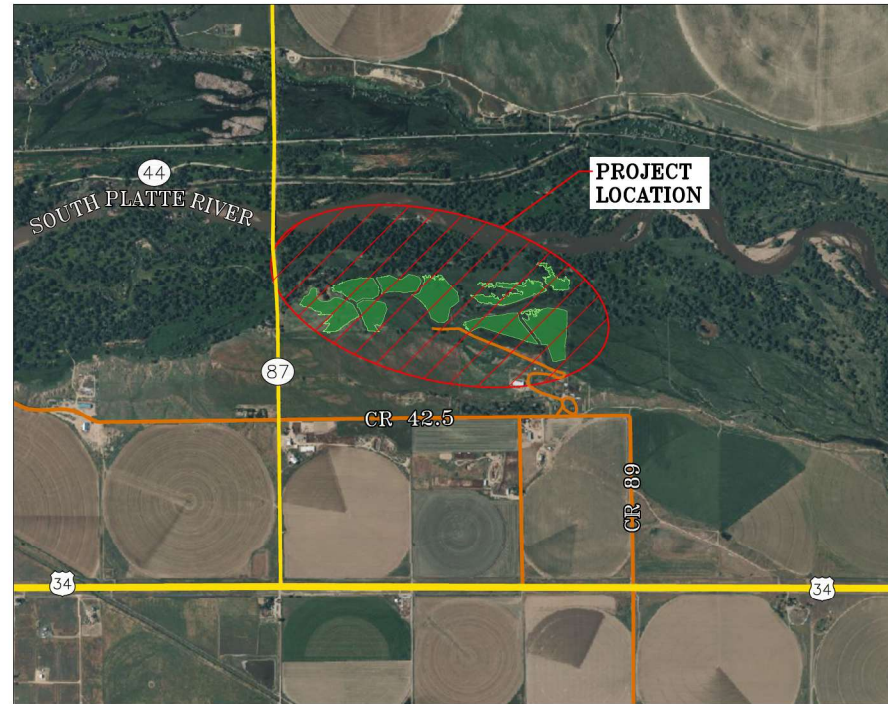
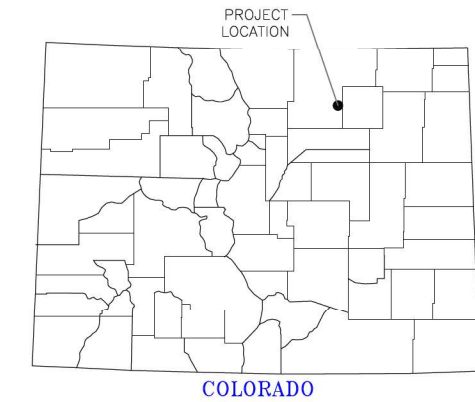
# DUCKS UNLIMITED

PROJECT

## YOCAM RESTORATION

### CO-376-101

LOCATED IN SECTION 20,  
TOWNSHIP 4 NORTH,  
RANGE 61 WEST, 6TH P.M.  
WELD COUNTY, COLORADO



PAVED ROAD ———  
DIRT ROAD ———

**LOCATION MAP**  
SCALE: 1" = 1/4 MILE

**PLAN INDEX**

- 1 TITLE PAGE & LOCATION MAP
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PAVED ROAD ———

**VICINITY MAP**  
SCALE: 1" = 2 MILES

**"BEFORE YOU DIG"**  
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 "ONE CALL OF COLORADO" AT 811. A 72 HOUR NOTIFICATION AND FULL DESCRIPTION OF LOCATION IS REQUIRED.

**DU CONSTRUCTION ENGINEER:**  
THOMAS PARKER, P.E.  
(970) 692-3375

**DU DESIGN ENGINEER:**  
KEVIN WARNER, P.E.  
(970) 590-1545



GREAT PLAINS REGIONAL OFFICE



DESIGNED BY: KJW
DRAWN BY: JJW
SURVEYED BY: TRP
CHECKED BY:
APPROVED BY:
APPROVED BY:

REVISION:	DATE:	BY:
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PROJECT: **YOCAM RESTORATION**

SHEET TITLE: **TITLE PAGE & LOCATION MAP**

DATE: 5/14/2026

SHEET TITLE: **TITLE PAGE & LOCATION MAP**










SCALES ARE ACCURATE ON 24"x36" SHEET SIZE

DU PROJECT NUMBER: **CO-376-101**

SHEET NUMBER: **1**

SHEET 1 OF 25

**LEGEND**

- PROPERTY BOUNDARY 
- IRRIGATED WETLAND FULL SERVICE LEVEL 
- BORROW LOCATION 
- EMBANKMENT CONSTRUCTION 
- WATERWAY 
- WCS (AGRI-DRAIN) 
- EXISTING CONTOURS 
- PROPOSED CENTER PIVOT 
- EX. FENCE 

**BORROW NOTES:**

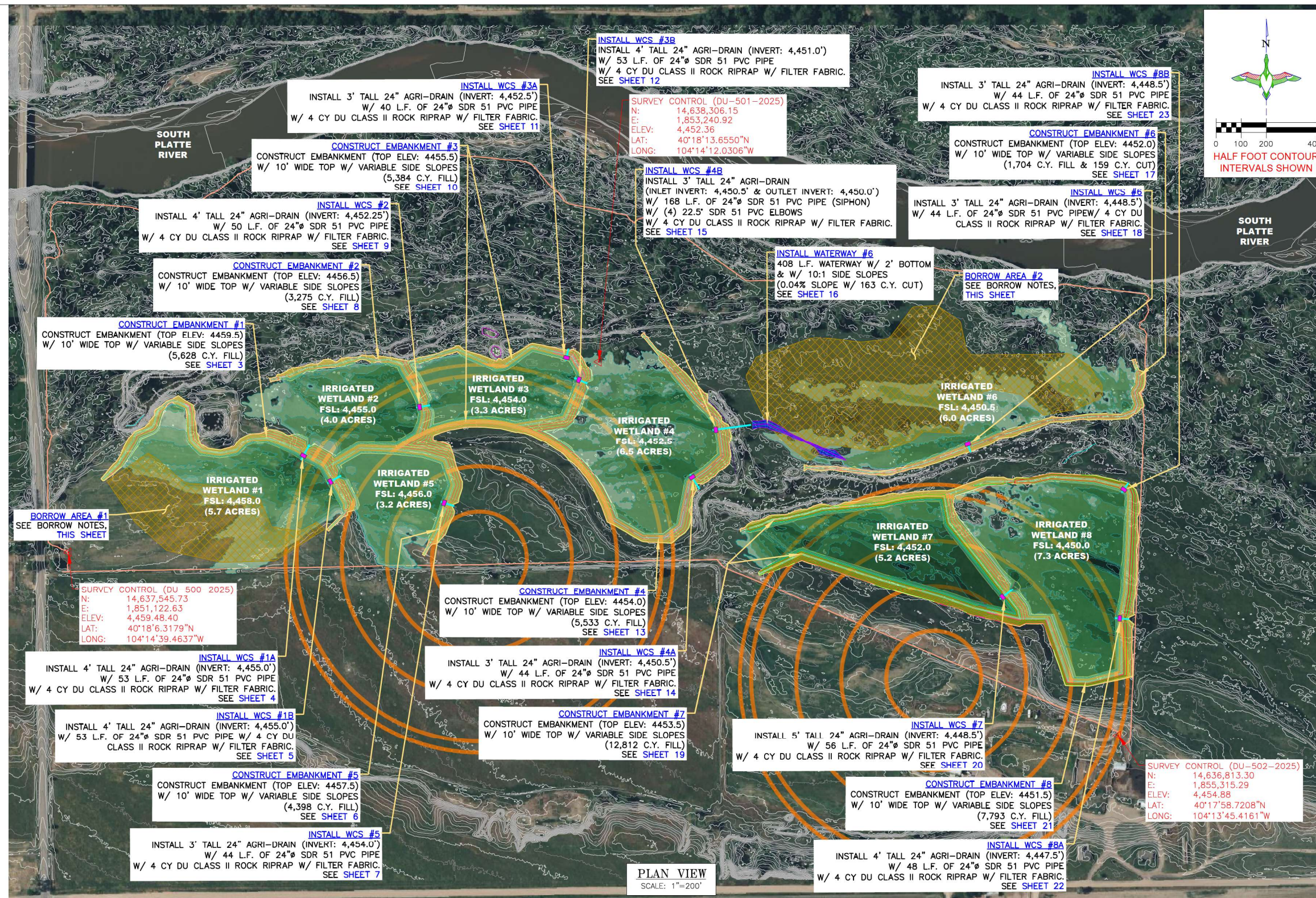
1. BORROW AREA #1 IS COMPOSED OF GRAVELLY SAND & IS TO BE USED IN ZONE 2 OF EMBANKMENT CONSTRUCTION. BORROW AREA #2 IS COMPOSED OF CLAYEY MATERIAL & IS TO BE USED IN ZONE 1 OF EMBANKMENT CONSTRUCTION.
2. STRIP AND STOCKPILE APPROX. 4"-6" OF TOPSOIL FROM PROPOSED BORROW AREA. 4"-6" OF TOPSOIL SHALL BE RESPREAD OVER THE ENTIRE BORROW AREA INCLUDING SIDE SLOPES. CONTRACTOR TO BREAK-UP & TILL TOPSOIL TO REMOVE ANY CLUMPS & MAKE FINAL GRADE SMOOTH. TOPSOIL FOR EMBANKMENT TOPS SHALL BE FREE OF VEGETATION & ROOTS. COST OF TOPSOIL WORK SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "SITE PREPARATION".
3. CONTRACTOR SHALL ONLY STRIP BORROW AREAS THEY ARE GOING TO USE. CONTRACTOR SHALL NOT "OVER-STRIP" THE BORROW AREAS.
4. CONTRACTOR IS RESPONSIBLE FOR MOWING PRIOR TO STRIPPING BORROW AREAS.
5. SUITABLE MATERIAL FOR ALL FILLS SHALL BE OBTAINED FROM THE DESIGNATED BORROW AREAS SHOWN ON THIS SHEET AS APPROVED BY THE DU FIELD ENGINEER. CARE SHALL BE TAKEN NOT TO OPEN UP ANY SAND LENSES THAT WILL INCREASE SEEPAGE FROM ANY EXCAVATION AREAS.
6. BORROW AN UNIFORM DEPTH WITH FINAL SLOPES GRADED TO MAINTAIN HISTORICAL DRAINAGE.
7. BORROW AREAS ARE TO LOOK NATURAL UPON COMPLETION, MAINTAINING VISUAL APPEALING SLOPES. IDEALLY THESE SLOPES SHALL BE 6:1 OR FLATTER. IN ADDITION BORROW AREAS SHALL MAINTAIN HISTORIC DRAINAGE PATHS AND SHALL DRAIN DURING RUNOFF.
8. BORROW AREAS ARE DEFINED AND THE CONTRACTOR NEEDS APPROVAL FROM THE DU ENGINEER TO BORROW OUTSIDE OF THE DEFINED LIMIT.

**SEEDING NOTES:**

LANDOWNER TO SEED EMBANKMENTS & CARE FOR WEEDS POST CONSTRUCTION.

**SEED MIX (50LBS/ACRE)**

100% SORGHUM, CRP COVER CROP MILO



**PLAN VIEW**  
SCALE: 1"=200'



EXAMPLE OF DUCKS UNLIMITED CONTROL POINT SURVEY CAP

HORIZONTAL AND VERTICAL CONTROL OPUS SOLUTION - COORDINATES ARE UTM ZONE 13 GRID COORDINATES IN US FEET [NAD83]. THEY WERE ESTABLISHED FROM THE WGS84 ELLIPSOID WITH INFORMATION FROM A TRIMBLE R10 SURVEY GRADE GPS RECEIVER ON MARCH 3, 2025 AT DUCKS UNLIMITED CONTROL POINT DU-501-2025 AND CALIBRATED TO AN OPUS POSITION OCCUPIED FOR 3 HOURS & 27 MINUTES AND SENT TO NGS FOR SOLUTION. THE VERTICAL CONTROL CAME FROM THE SAME SOLUTION USING GEIOD 18 CONUS IN THE NAVD88. THE FULL OPUS SOLUTION REPORT IS ON FILE AT THE DUCKS UNLIMITED ENGINEERING DEPARTMENT IN FORT COLLINS, COLORADO.

**ABBREVIATIONS LIST**

- ADS = ADVANCED DRAINAGE SYSTEMS
  - CMP = CORRUGATED METAL PIPE
  - C.Y. = CUBIC YARD
  - DU = DUCKS UNLIMITED
  - ELEV. = ELEVATION
  - EMB. = EMBANKMENT
  - EX. = EXISTING
  - FSL = FULL SERVICE LEVEL
  - GPS = GLOBAL POSITIONING SYSTEM
  - HDPE = HIGH-DENSITY POLYETHYLENE
  - L.F. = LINEAR FEET
  - NAD = NORTH AMERICAN DATUM
  - PVC = POLYVINYL CHLORIDE
  - RCP = REINFORCED CONCRETE PIPE
  - SDR = STANDARD DIMENSION RATIO
  - UTM = UNIVERSAL TRANSVERSE MERCATOR
  - WCS = WATER CONTROL STRUCTURE
  - W/ = WITH
  - ~ = APPROXIMATELY
  - Ø = DIAMETER
- \*NOTE: NOT ALL ABBREVIATIONS IN THIS LIST APPEAR ON THIS SHEET

**DUCKS UNLIMITED INC.**  
GREAT PLAINS REGIONAL OFFICE  
P.E. SEAL:  
KEVIN J. WARNER  
PROFESSIONAL ENGINEER  
47794

DESIGNED BY: KJW  
DRAWN BY: JJW  
SURVEYED BY: TRP  
CHECKED BY:  
APPROVED BY:  
APPROVED BY:

REVISION	DATE	BY
1		
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**YOCAM RESTORATION**  
**OVERALL PLAN & CONTROL**

DATE: 5/14/2026  
SHEET TITLE: **OVERALL PLAN & CONTROL**

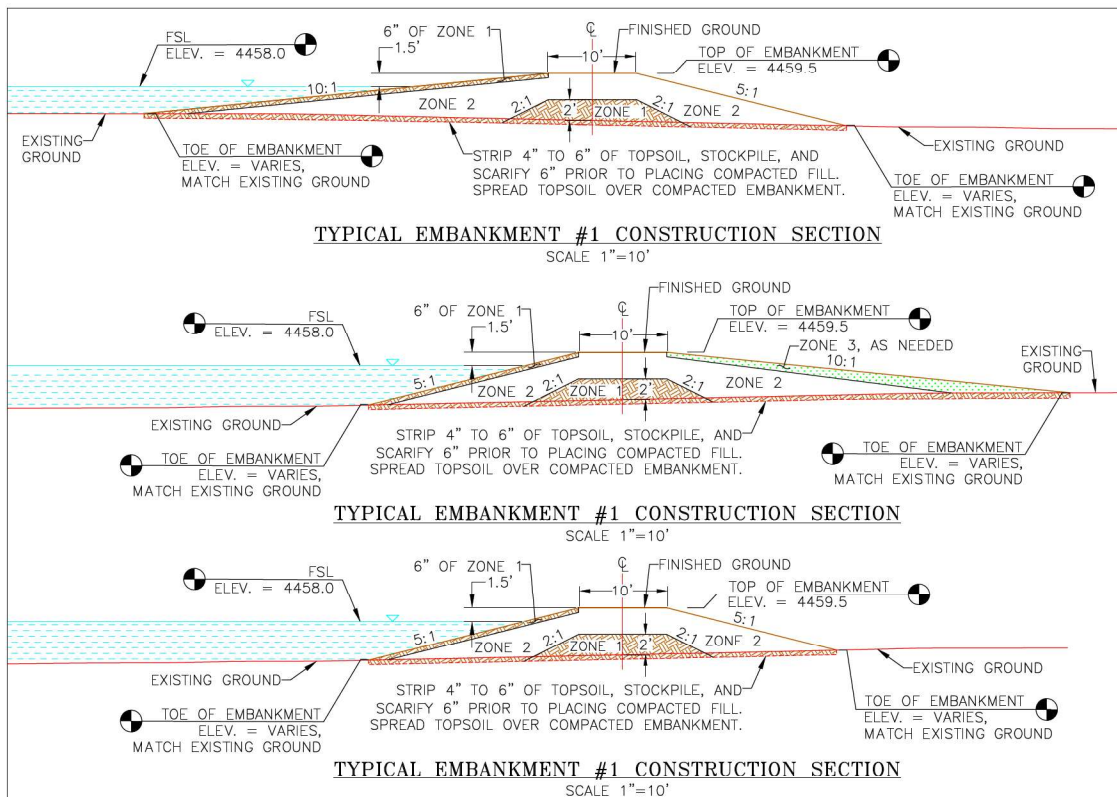
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DU PROJECT NUMBER: **CO-376-101**  
SHEET NUMBER: **2**  
SHEET 2 OF 25

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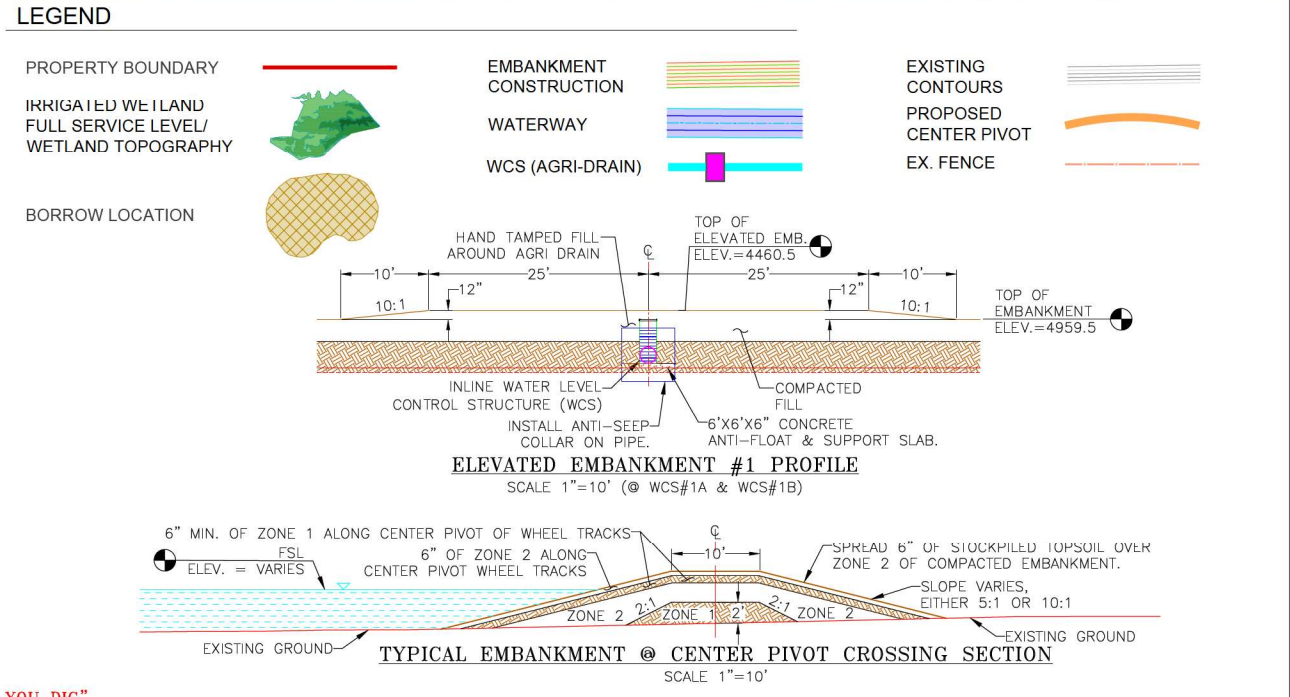
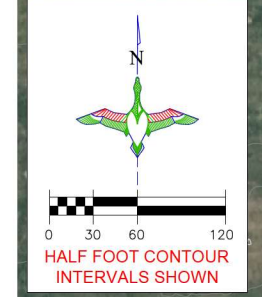
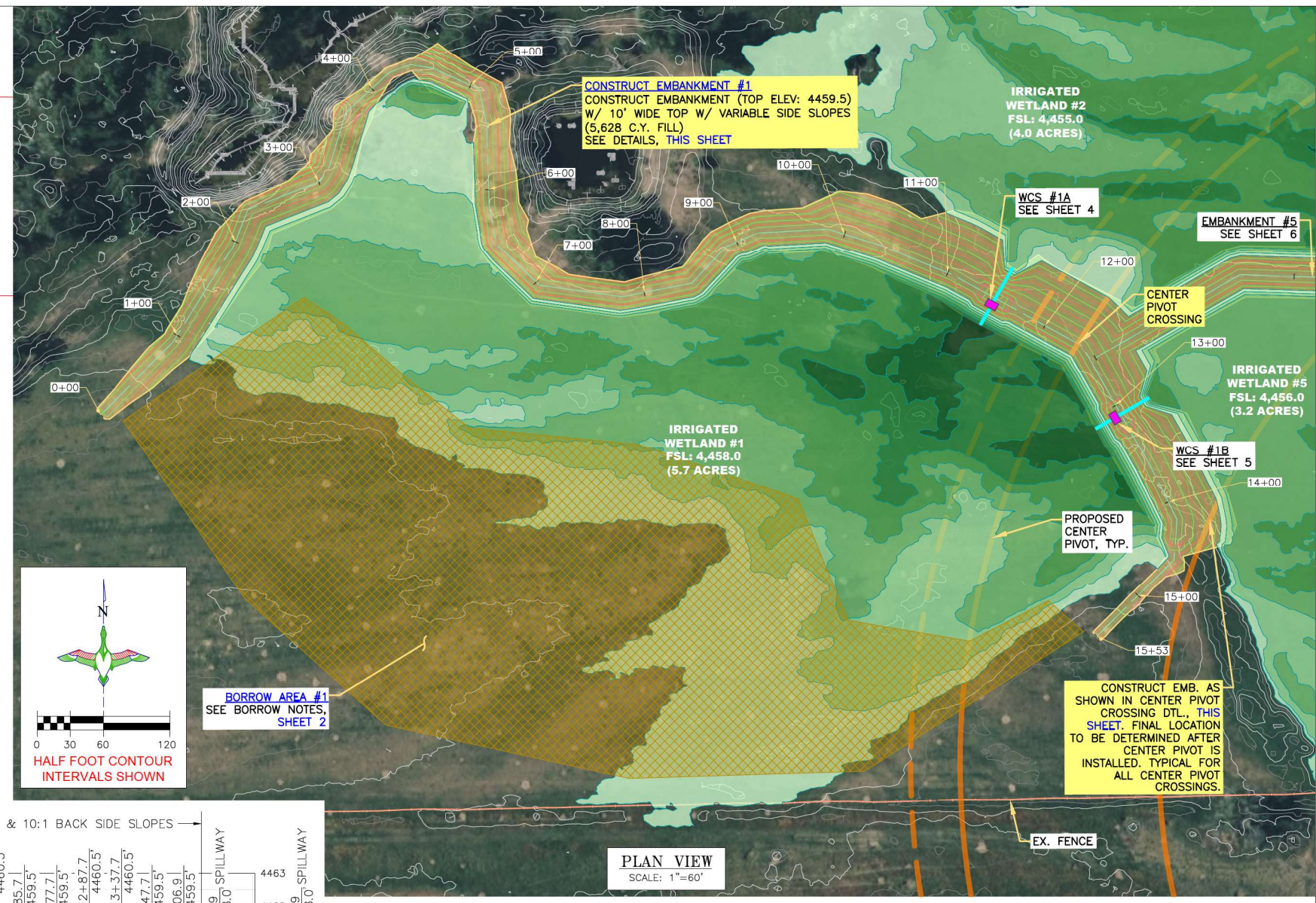
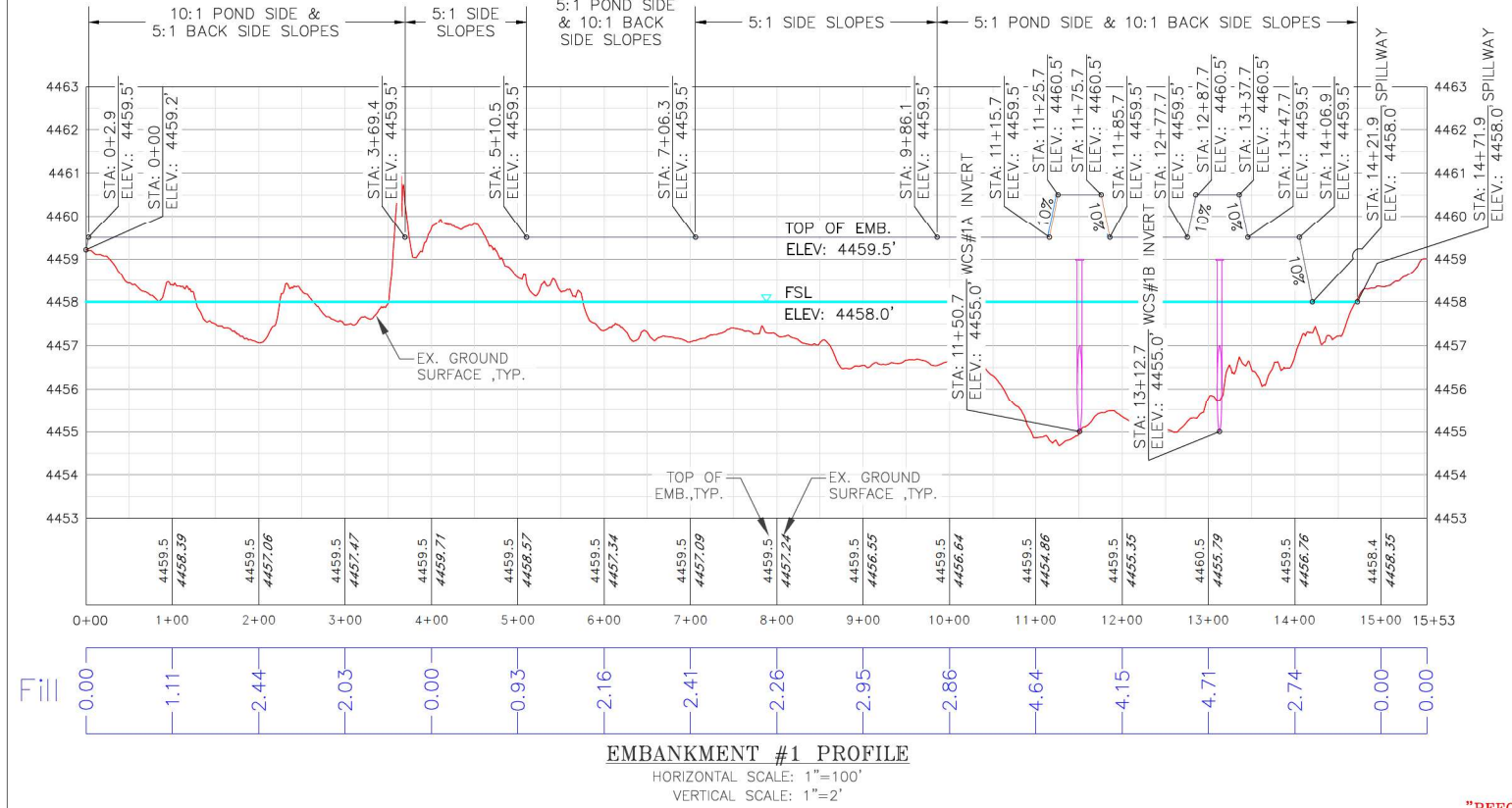
**"BEFORE YOU DIG"**  
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DU DESIGN ENGINEER:  
KEVIN WARNER, P.E.  
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- EMBANKMENT CONSTRUCTION NOTES:**
- STRIP 4" TO 6" OF TOPSOIL, STOCKPILE, AND SCARIFY 6" PRIOR TO PLACING COMPACTED FILL. SPREAD TOPSOIL OVER COMPACTED EMBANKMENT. COST OF TOPSOIL WORK SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "SITE PREPARATION".
  - THE EMBANKMENT SUBGRADE MUST BE STABLE, UNIFORMLY GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS, WITH NO ABRUPT GRADE CHANGES.
  - EMBANKMENT CONSTRUCTION SHALL BE FROM COMPACTED EARTHEN MATERIAL CONTAINING MINIMAL ORGANIC MATERIAL AND SHALL COMPLY WITH DJI SPECIFICATION SECTION 204 "EMBANKMENT CONSTRUCTION."
  - BORROW AREA SHALL BE DEVELOPED TO UTILIZE CLAYEY FILL FOR ZONE 1 OF THE EMBANKMENT. ANY GRAVELLY OR HEAVY SAND MATERIAL SHALL BE USED FOR ZONE 2 AND ORGANICS & CATTAILS FOR ZONE 3.
  - EMBANKMENT FILL SHALL BE OBTAINED FROM THE SPECIFIED BORROW AREA. FILL SHALL BE PLACED IN LIFTS OF NO MORE THAN 8" AND COMPACTED PRIOR TO PLACING SUBSEQUENT LIFTS.
- BORROW NOTES:**  
SEE SHEET 2
- SEEDING NOTES:**  
SEE SHEET 2



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THOMAS PARKER, P.E.  
(970) 692-3375

**DU DESIGN ENGINEER:**  
KEVIN WARNER, P.E.  
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DESIGNED BY: KJW  
DRAWN BY: JJW  
SURVEYED BY: TRP  
CHECKED BY:  
APPROVED BY:  
APPROVED BY:

REVISION:

NO.	DATE	DESCRIPTION
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**PROJECT:**  
YOCAM RESTORATION

**SHEET TITLE:**  
CONSTRUCT EMBANKMENT #1

**DATES:**  
5/14/2026

**SHEET TITLE:**  
CONSTRUCT EMBANKMENT #1

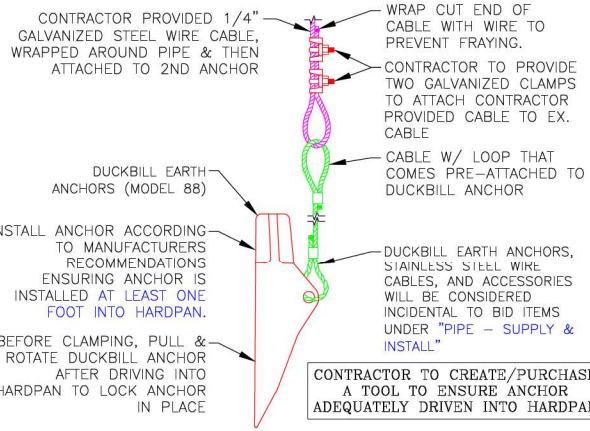
**DU PROJECT NUMBER:**  
CO-376-101

**SHEET NUMBER:**  
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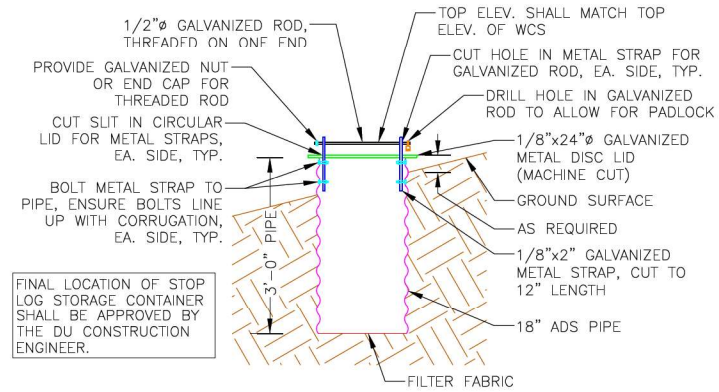
SCALES ARE ACCURATE ON 24"x36" SHEET SIZE

SHEET 3 OF 25





**DUCKBILL EARTH ANCHOR (MODEL 88) DETAIL**  
NOT TO SCALE

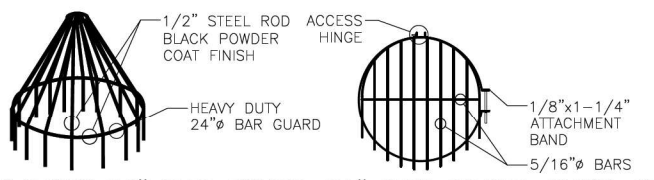


**STOP LOG STORAGE CONTAINER**  
NOT TO SCALE

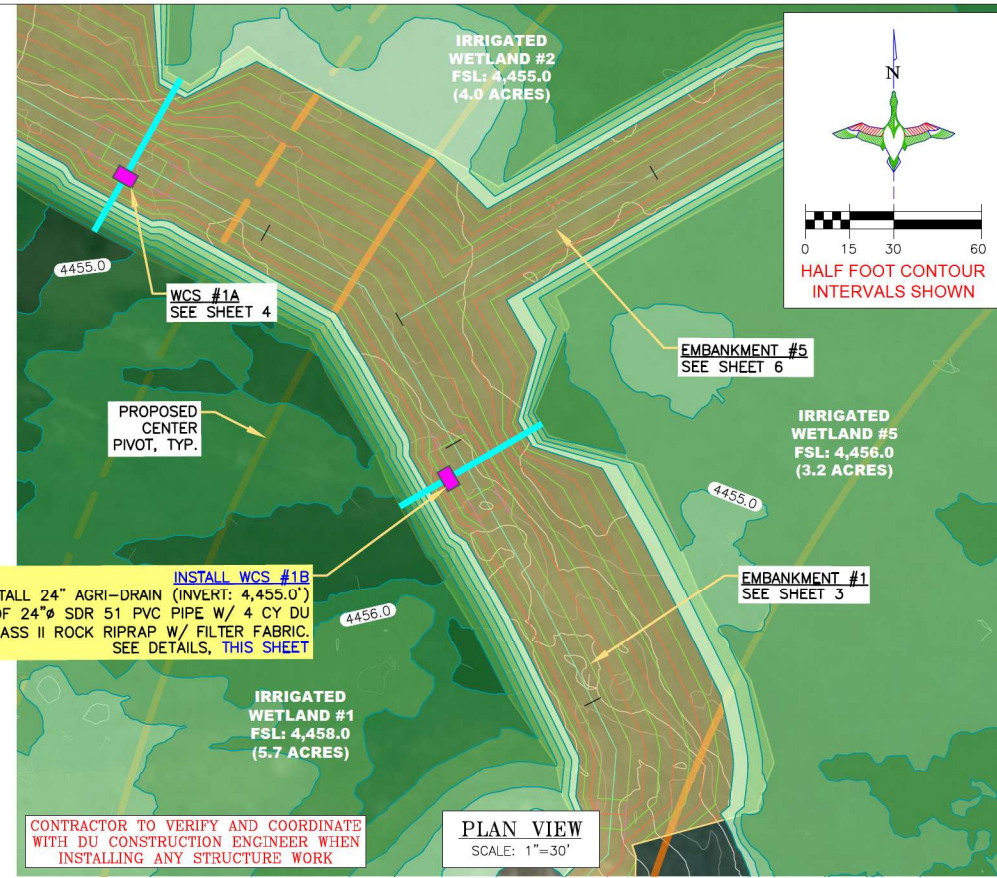
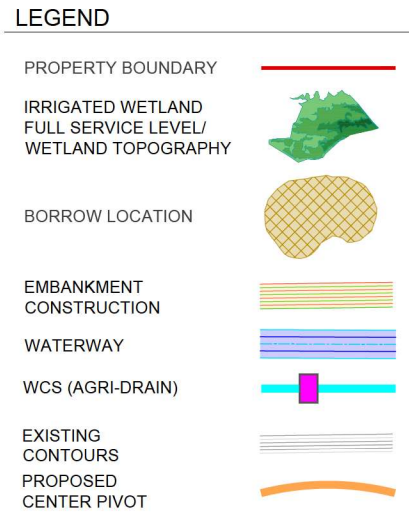
- STOP LOG STORAGE CONTAINER NOTES:**
1. THE STOP LOG STORAGE CONTAINER AND ITS INSTALLATION WILL BE CONSIDERED PART OF BID ITEM UNDER "WATER CONTROL STRUCTURE - STOP LOG STORAGE CONTAINER".
  2. STOP LOG STORAGE CONTAINER SHALL BE LOCATED ON THE WETLAND SIDESLOPE OF THE EMBANKMENT, FOUR FT. FROM THE EDGE OF EMB. TOP.
  3. PROVIDE TWO COATS OF A COLD GALVANIZING COMPOUND SPRAY, MANUFACTURED BY RUST OLEUM, OR APPROVED EQUAL, ON ALL METAL PARTS OF THE STOP LOG STORAGE CONTAINER.

**BAR GUARD/RAT GUARD INSTALLATION NOTES:**

1. THE BAR GUARD/RAT GUARD OR APPROVED EQUAL AND ITS INSTALLATION WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
2. BAR GUARD TO BE INSTALLED ON THE UPSTREAM LOCATION OF THE WCS.
3. RAT GUARD TO BE INSTALLED ON THE DOWNSTREAM LOCATION OF THE WCS.
4. AGRI DRAIN CORP. TELEPHONE NUMBER IS 1-800-232-4742.



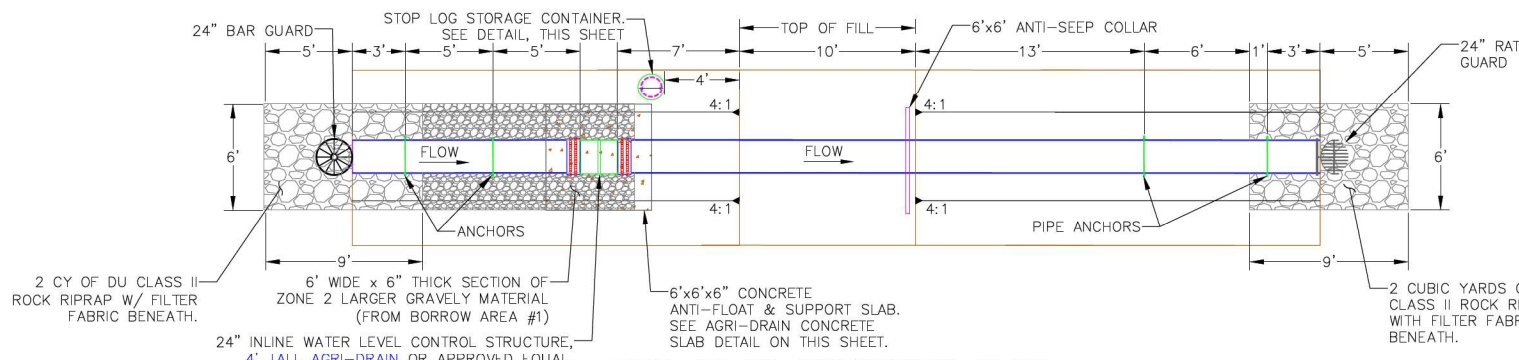
**HEAVY DUTY 24" BAR GUARD 24" RAT GUARD, BAND-TYPE**  
NOT TO SCALE



**PLAN VIEW**  
SCALE: 1"=30'

**INSTALL WCS #1B**  
INSTALL 4' TALL 24" AGRI-DRAIN (INVERT: 4,455.0') W/ 53 L.F. OF 24" SDR 51 PVC PIPE W/ 4 CY DU CLASS II ROCK RIPRAP W/ FILTER FABRIC. SEE DETAILS, THIS SHEET

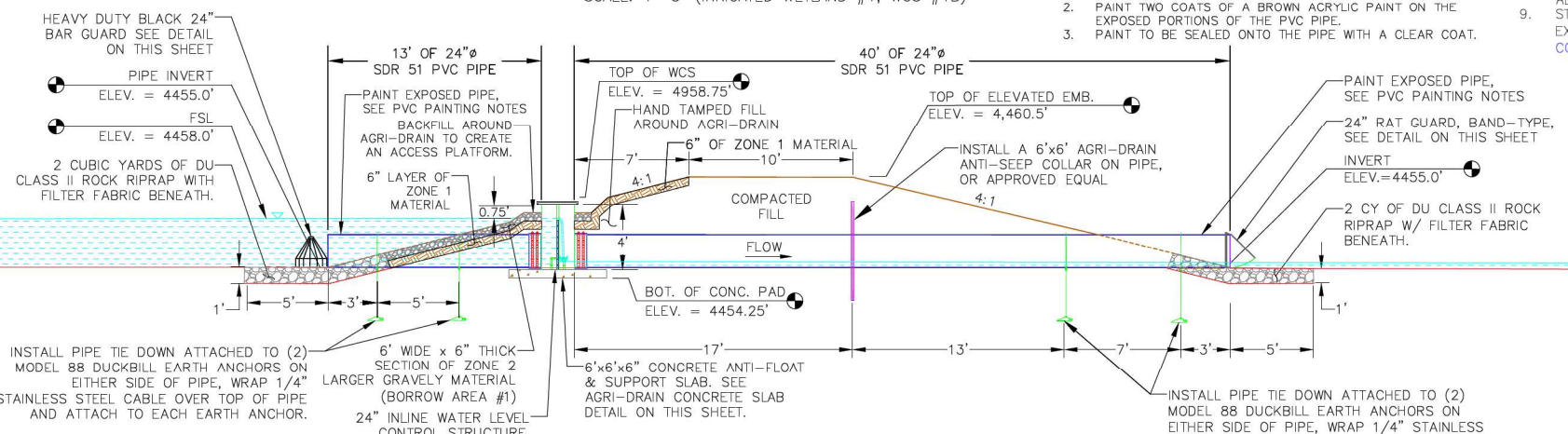
CONTRACTOR TO VERIFY AND COORDINATE WITH DU CONSTRUCTION ENGINEER WHEN INSTALLING ANY STRUCTURE WORK



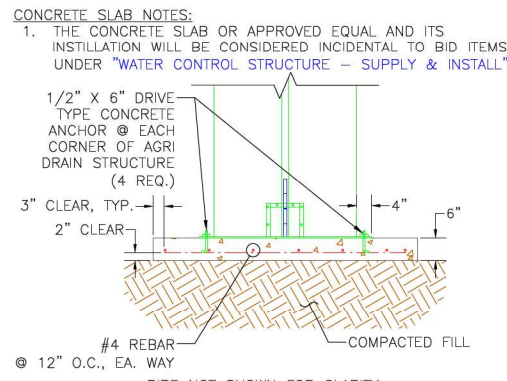
**AGRI-DRAIN STRUCTURE PLAN**  
SCALE: 1"=5' (IRRIGATED WETLAND #1, WCS #1B)

- AGRI DRAIN STRUCTURE INSTALLATION NOTES:**
1. STRUCTURE, CONCRETE BASE, INLET AND OUTLET PIPE SHALL BE PLACED ON A LEVEL SURFACE OF COMPACTED SOIL.
  2. LEVEL STRUCTURE VERTICALLY PRIOR TO PLACING BACKFILL. BACKFILL AROUND STRUCTURE BY HAND IN 6" LIFTS. HAND TAMP ONLY.
  3. COST OF STRUCTURE INSTALLATION SHALL BE PAID AS BID ITEM "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  4. ANTI-SEEP COLLARS WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  5. AGRI DRAIN PVC STOP LOGS SHALL BE WATERTIGHT AND PROVIDED BY SUPPLIER.
  6. STOP LOGS WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  7. DUCKBILL EARTH ANCHORS, STAINLESS STEEL WIRE CABLES, AND ACCESSORIES WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  8. AGRI DRAIN CORP. TELEPHONE NUMBER IS 1-800-232-4742 SPECIFY SIZE AND TYPE OF PIPE WHEN ORDERING. ORDER BASE EXTENSION TO ALLOW ANCHORING OF AGRI DRAIN TO CONCRETE SLAB.
  9. STOP LOG STORAGE CONTAINER AND ALL ASSOCIATED MATERIALS, EXCEPT THE PIPE, WILL BE CONSIDERED PART OF BID ITEM "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".

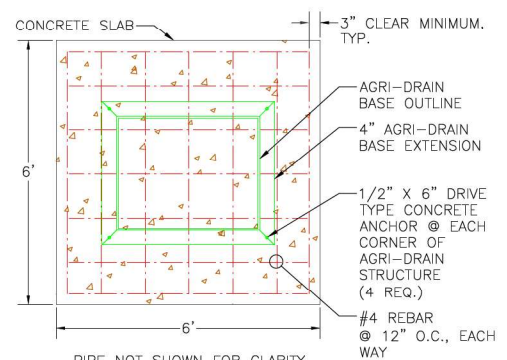
- PVC PAINTING NOTES:**
1. PRIME THE PIPE WITH A LATEX PRIMER.
  2. PAINT TWO COATS OF A BROWN ACRYLIC PAINT ON THE EXPOSED PORTIONS OF THE PVC PIPE.
  3. PAINT TO BE SEALED ONTO THE PIPE WITH A CLEAR COAT.



**AGRI-DRAIN STRUCTURE PROFILE**  
SCALE: 1"=5' (IRRIGATED WETLAND #1, WCS #1B)



**AGRI DRAIN CONCRETE SLAB PROFILE**  
SCALE: 1"=2'



**AGRI DRAIN CONCRETE SLAB PLAN**  
SCALE: 1"=2'

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**DU DESIGN ENGINEER:**  
KEVIN WARNER, P.E.  
(970) 590-1545

**DUCKS UNLIMITED INC.**  
GREAT PLAINS REGIONAL OFFICE  
P.E. SEAL:  
COLORADO LICENSED PROFESSIONAL ENGINEER  
KEYVIN J. WARNER  
47794

DESIGNED BY:	KJW
DRAWN BY:	JJW
SURVEYED BY:	TRP
CHECKED BY:	
APPROVED BY:	
APPROVED BY:	
BY:	
DATE:	
REVISION:	
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**PROJECT:** YOCAM RESTORATION

**SHEET TITLE:** INSTALL WCS #1B

**DATES:** 5/14/2026

**SHEET TITLE:** INSTALL WCS #1B

**DU PROJECT NUMBER:** CO-376-101

**SHEET NUMBER:** 5

SCALES ARE ACCURATE ON 24"x36" SHEET SIZE

SHEET 5 OF 25

**EMBANKMENT CONSTRUCTION NOTES:**

1. STRIP 4" TO 6" OF TOPSOIL, STOCKPILE, AND SCARIFY 6" PRIOR TO PLACING COMPACTED FILL. SPREAD TOPSOIL OVER COMPACTED EMBANKMENT. COST OF TOPSOIL WORK SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "SITE PREPARATION".
2. THE EMBANKMENT SUBGRADE MUST BE STABLE, UNIFORMLY GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS, WITH NO ABRUPT GRADE CHANGES.
3. EMBANKMENT CONSTRUCTION SHALL BE FROM COMPACTED EARTHEN MATERIAL CONTAINING MINIMAL ORGANIC MATERIAL AND SHALL COMPLY WITH DU SPECIFICATION SECTION 204 "EMBANKMENT CONSTRUCTION."
4. BORROW AREA SHALL BE DEVELOPED TO UTILIZE CLAYEY FILL FOR ZONE 1 OF THE EMBANKMENT. ANY GRAVELLY OR HEAVY SAND MATERIAL SHALL BE USED FOR ZONE 2 AND ORGANICS & CATTAILS FOR ZONE 3.
5. EMBANKMENT FILL SHALL BE OBTAINED FROM THE SPECIFIED BORROW AREA. FILL SHALL BE PLACED IN LIFTS OF NO MORE THAN 8" AND COMPACTED PRIOR TO PLACING SUBSEQUENT LIFTS.

**BORROW NOTES:**

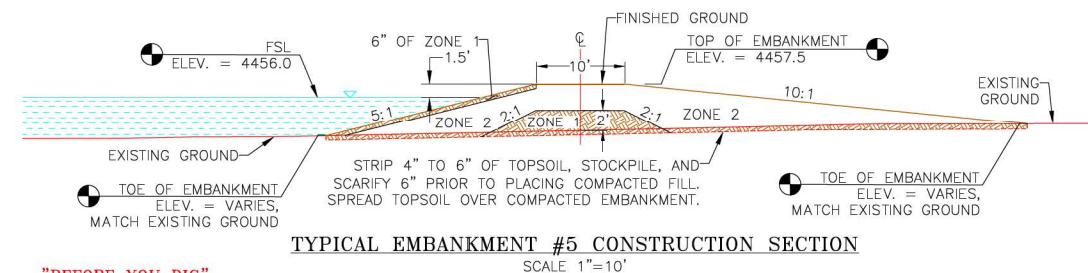
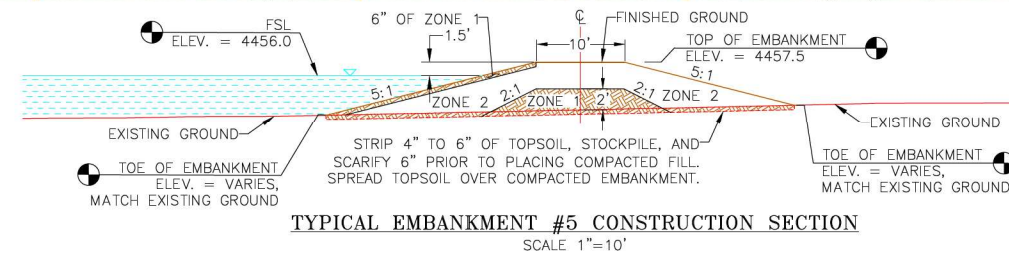
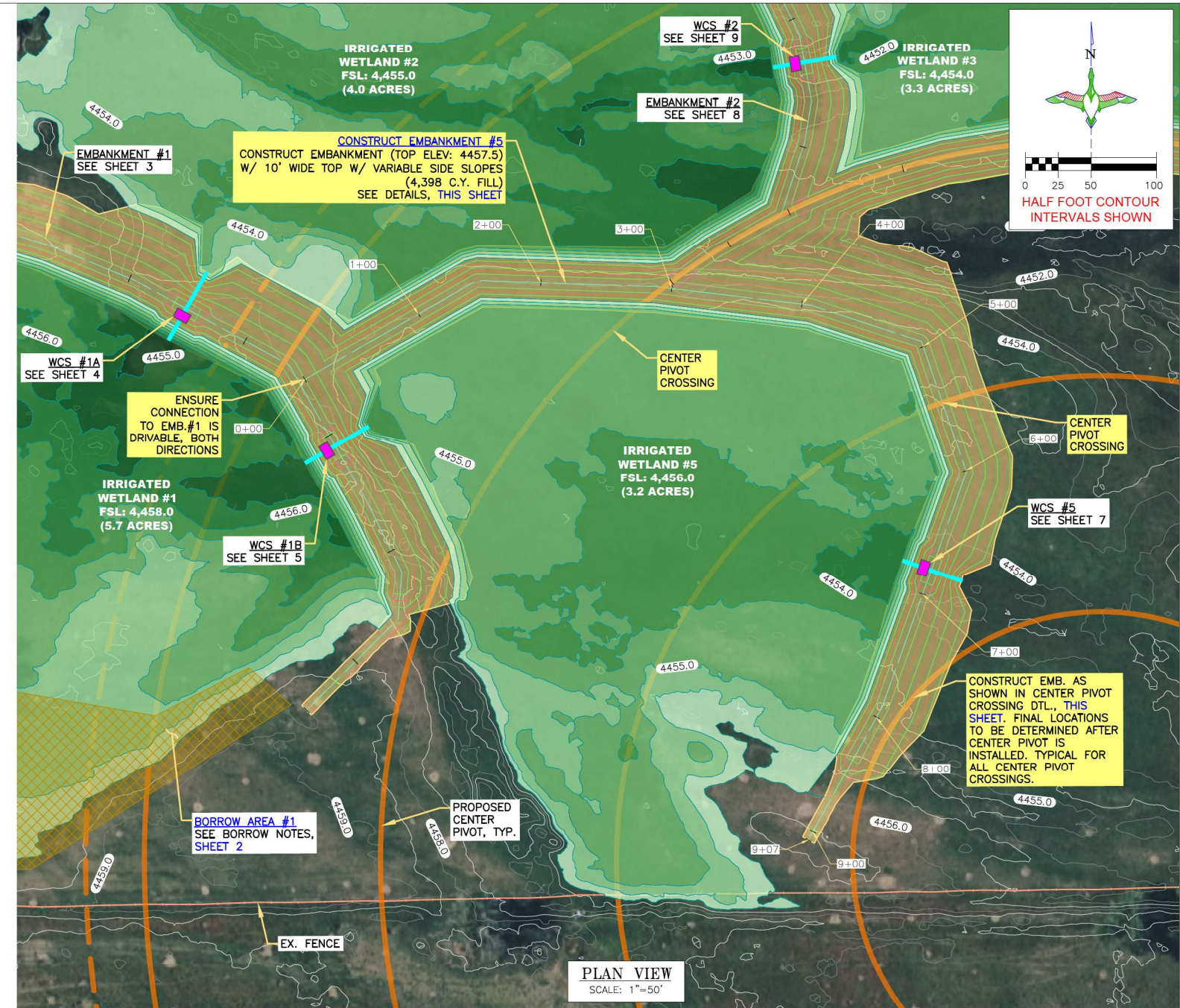
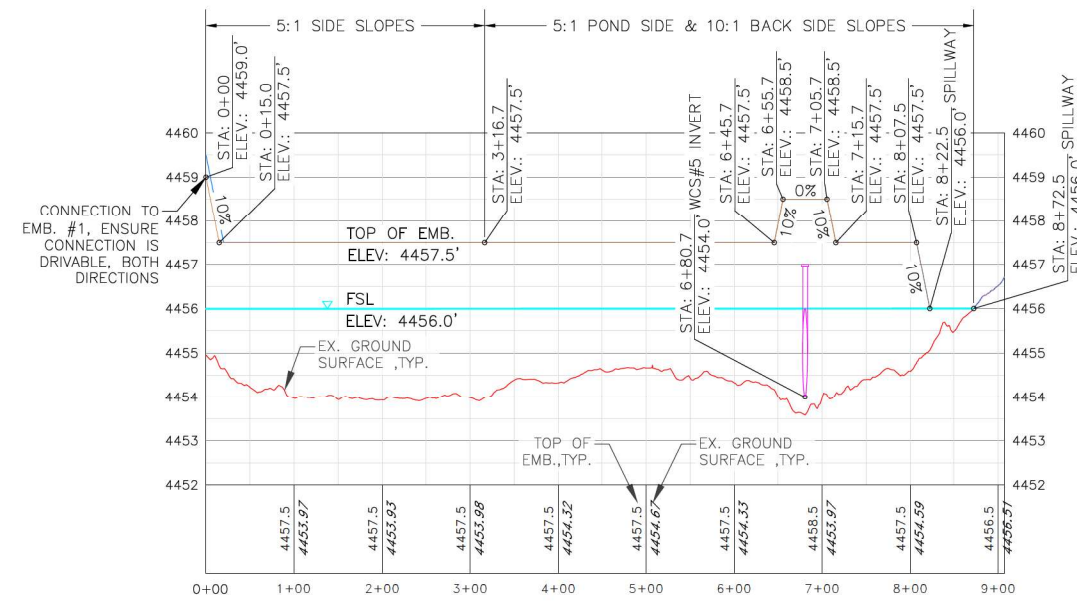
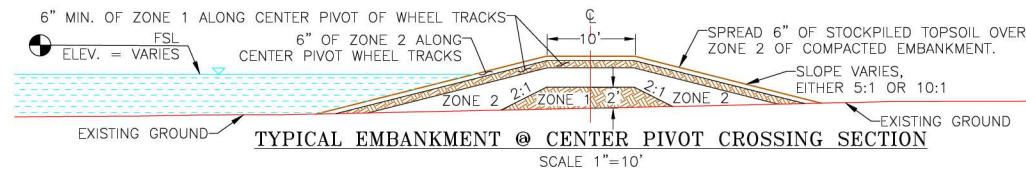
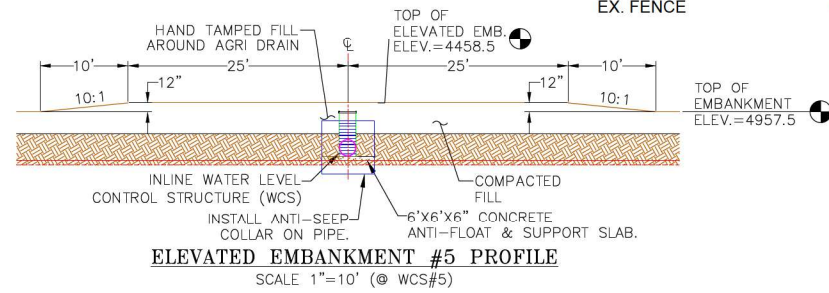
SEE SHEET 2

**SEEDING NOTES:**

SEE SHEET 2

**LEGEND**

- PROPERTY BOUNDARY
- IRRIGATED WETLAND FULL SERVICE LEVEL/ WETLAND TOPOGRAPHY
- BORROW LOCATION
- EMBANKMENT CONSTRUCTION
- WATERWAY
- WCS (AGRI-DRAIN)
- EXISTING CONTOURS
- PROPOSED CENTER PIVOT
- EX. FENCE



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**"BEFORE YOU DIG"**  
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 "ONE CALL OF COLORADO" AT 811. A 72 HOUR NOTIFICATION AND FULL DESCRIPTION OF LOCATION IS REQUIRED.

DU CONSTRUCTION ENGINEER:  
THOMAS PARKER, P.E.  
(970) 692-3375

DU DESIGN ENGINEER:  
KEVIN WARNER, P.E.  
(970) 590-1545

**DUCKS UNLIMITED INC.**  
GREAT PLAINS REGIONAL OFFICE  
P.E. SEAL:  
KEVIN J. WARNER  
47794  
LICENSED PROFESSIONAL ENGINEER

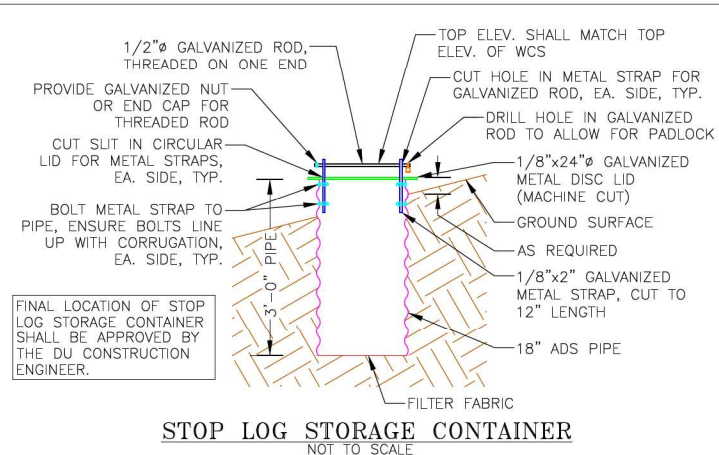
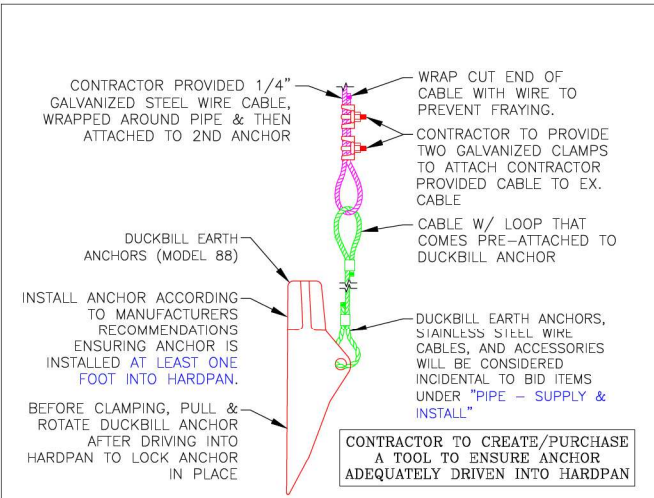
DESIGNED BY: KJW  
DRAWN BY: JJW  
SURVEYED BY: TRP  
CHECKED BY:  
APPROVED BY:  
APPROVED BY:

1	DATE:
2	REVISION:
3	
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PROJECT:  
**YOCAM RESTORATION**  
SHEET TITLE:  
**CONSTRUCT EMBANKMENT #5**

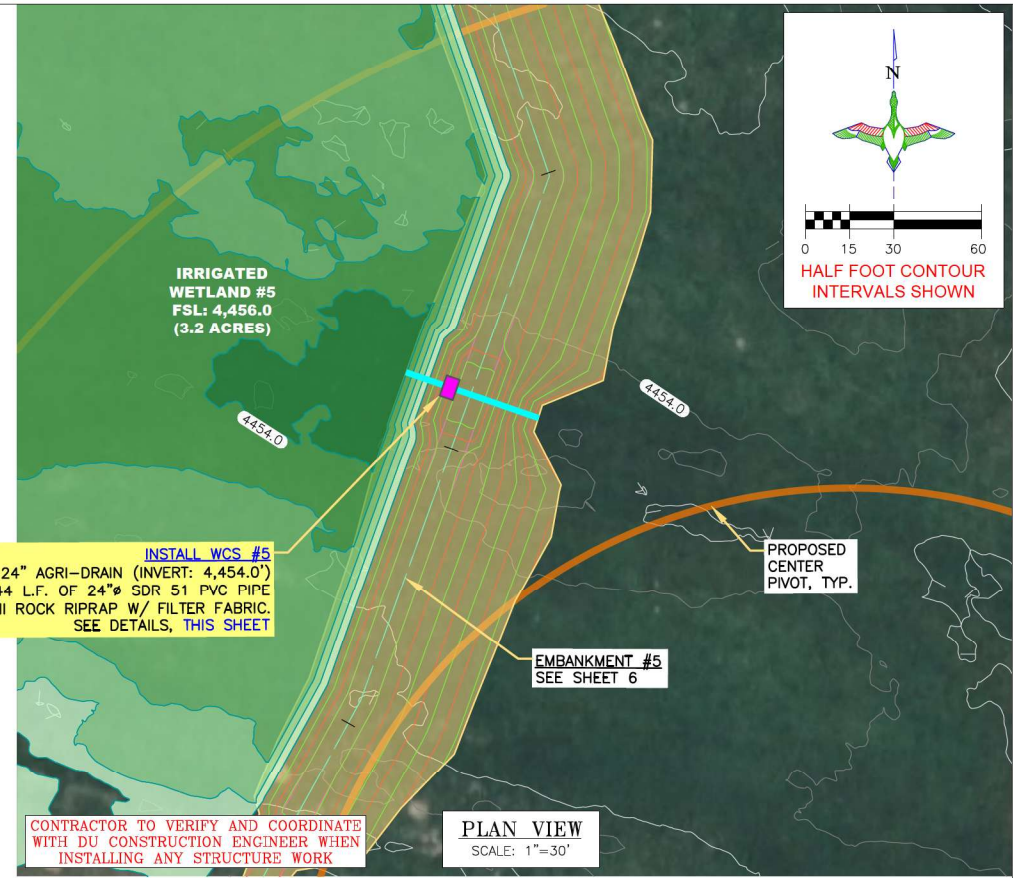
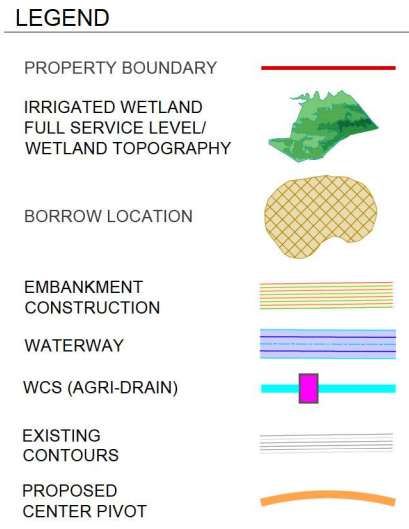
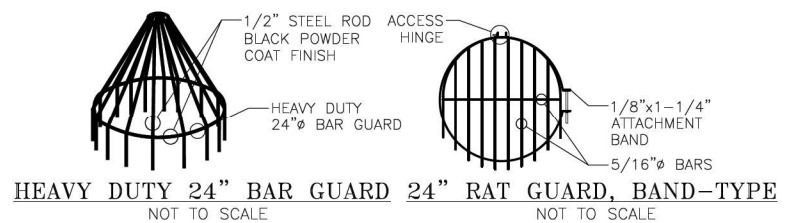
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5/14/2026  
SHEET TITLE:  
**CONSTRUCT EMBANKMENT #5**  
DU PROJECT NUMBER:  
**CO-376-101**  
SHEET NUMBER:  
**6**  
SHEET 6 OF 25

SCALES ARE ACCURATE ON 24"x36" SHEET SIZE



- STOP LOG STORAGE CONTAINER NOTES:**
1. THE STOP LOG STORAGE CONTAINER AND ITS INSTALLATION WILL BE CONSIDERED PART OF BID ITEM UNDER "WATER CONTROL STRUCTURE - STOP LOG STORAGE CONTAINER"
  2. STOP LOG STORAGE CONTAINER SHALL BE LOCATED ON THE WETLAND SIDESLOPE OF THE EMBANKMENT, FOUR FT. FROM THE EDGE OF EMB. TOP.
  3. PROVIDE TWO COATS OF A COLD GALVANIZING COMPOUND SPRAY, MANUFACTURED BY RUST-OLEUM, OR APPROVED EQUAL, ON ALL METAL PARTS OF THE STOP LOG STORAGE CONTAINER.

- BAR GUARD/RAT GUARD INSTALLATION NOTES:**
1. THE BAR GUARD/RAT GUARD OR APPROVED EQUAL AND ITS INSTALLATION WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  2. BAR GUARD TO BE INSTALLED ON THE UPSTREAM LOCATION OF THE WCS.
  3. RAT GUARD TO BE INSTALLED ON THE DOWNSTREAM LOCATION OF THE WCS.
  4. AGRI DRAIN CORP. TELEPHONE NUMBER IS 1-800-232-4742.



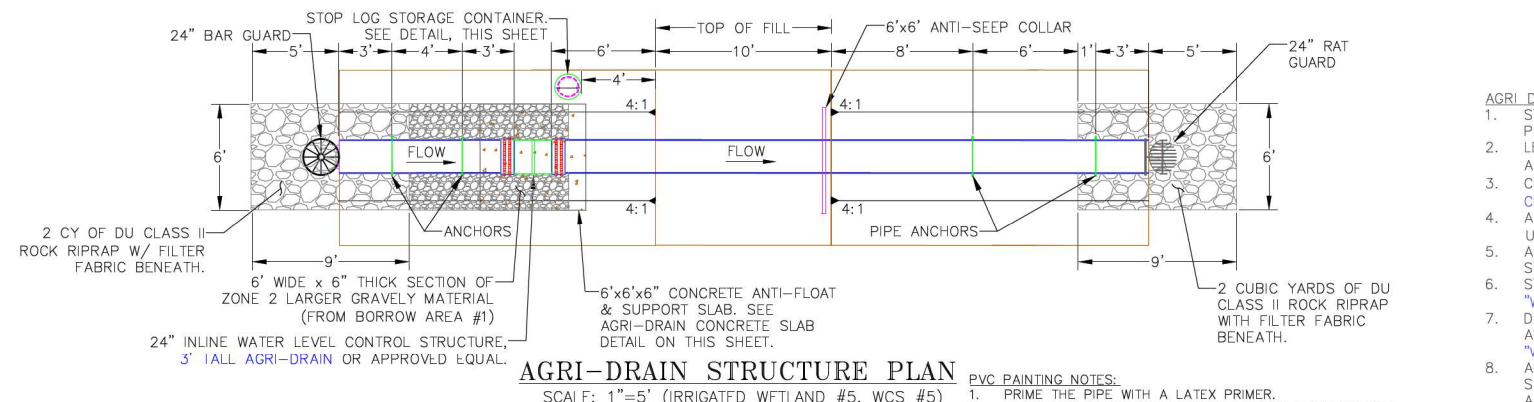
**DUCKS UNLIMITED INC.**  
GREAT PLAINS REGIONAL OFFICE

P.E. SEAL:  
COLORADO LICENSED PROFESSIONAL ENGINEER  
KEYVIN J. WARNER  
47794

DESIGNED BY: KJW  
DRAWN BY: JJW  
SURVEYED BY: TRP  
CHECKED BY:  
APPROVED BY:  
APPROVED BY:

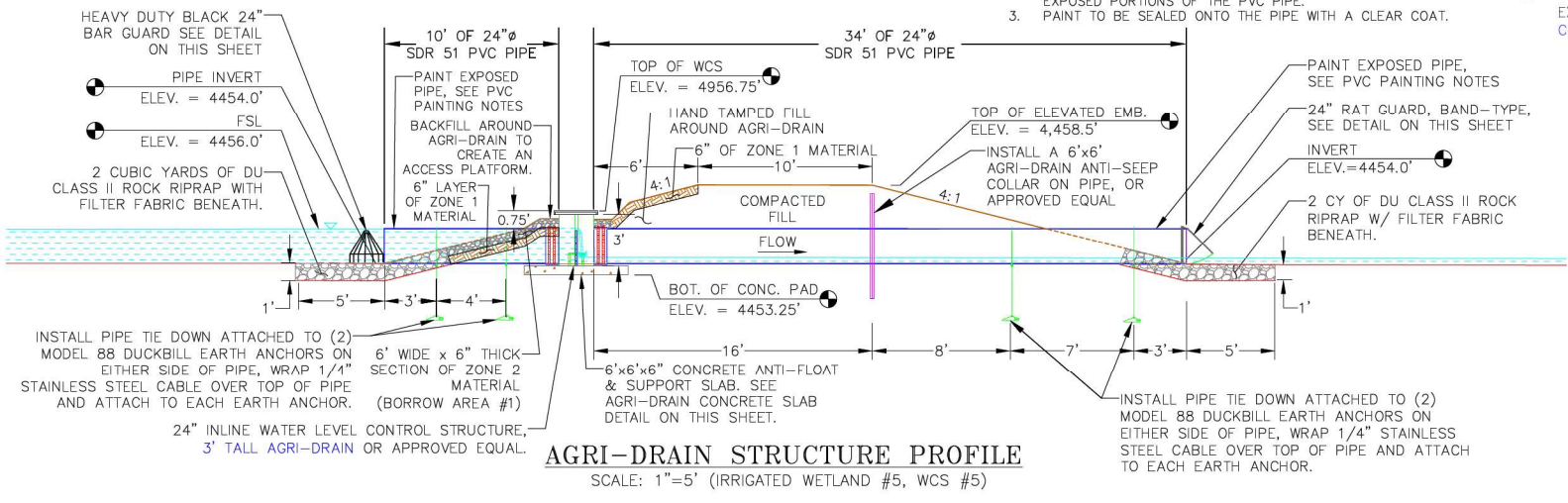
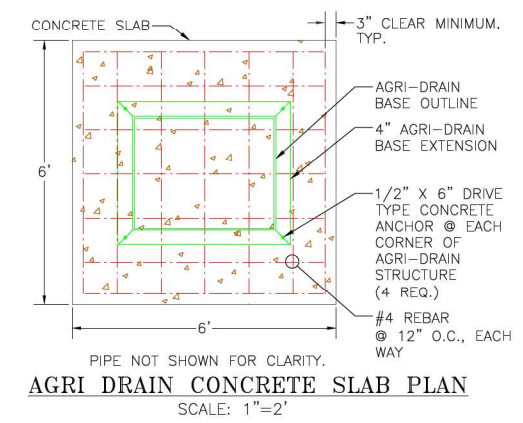
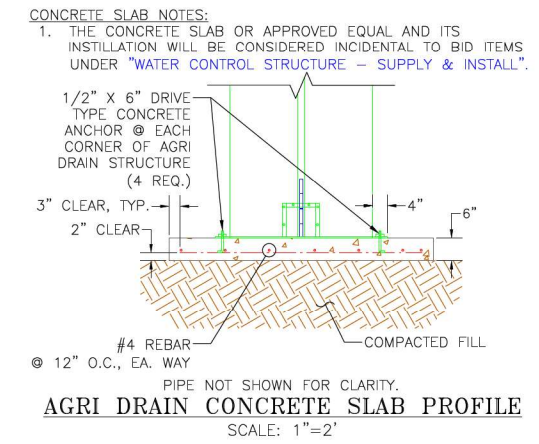
REVISION:

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- AGRI DRAIN STRUCTURE INSTALLATION NOTES:**
1. STRUCTURE, CONCRETE BASE, INLET AND OUTLET PIPE SHALL BE PLACED ON A LEVEL SURFACE OF COMPACTED SOIL.
  2. LEVEL STRUCTURE VERTICALLY PRIOR TO PLACING BACKFILL. BACKFILL AROUND STRUCTURE BY HAND IN 6" LIFTS. HAND TAMP ONLY.
  3. COST OF STRUCTURE INSTALLATION SHALL BE PAID AS BID ITEM "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  4. ANTI-SEEP COLLARS WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  5. AGRI DRAIN PVC STOP LOGS SHALL BE WATERTIGHT AND PROVIDED BY SUPPLIER.
  6. STOP LOGS WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  7. DUCKBILL EARTH ANCHORS, STAINLESS STEEL WIRE CABLES, AND ACCESSORIES WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  8. AGRI DRAIN CORP. TELEPHONE NUMBER IS 1-800-232-4742 SPECIFY SIZE AND TYPE OF PIPE WHEN ORDERING. ORDER BASE EXTENSION TO ALLOW ANCHORING OF AGRI DRAIN TO CONCRETE SLAB.
  9. STOP LOG STORAGE CONTAINER AND ALL ASSOCIATED MATERIALS, EXCEPT THE PIPE, WILL BE CONSIDERED PART OF BID ITEM "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".

- PVC PAINTING NOTES:**
1. PRIME THE PIPE WITH A LATEX PRIMER.
  2. PAINT TWO COATS OF A BROWN ACRYLIC PAINT ON THE EXPOSED PORTIONS OF THE PVC PIPE.
  3. PAINT TO BE SEALED ONTO THE PIPE WITH A CLEAR COAT.



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**DU CONSTRUCTION ENGINEER:**  
THOMAS PARKER, P.E.  
(970) 692-3375

**DU DESIGN ENGINEER:**  
KEVIN WARNER, P.E.  
(970) 590-1545

**PROJECT:** YOCAM RESTORATION

**SHEET TITLE:** INSTALL WCS #5

**DATE:** 5/14/2026

**SHEET TITLE:** INSTALL WCS #5

**DU PROJECT NUMBER:** CO-376-101

**SHEET NUMBER:** 7

**SHEET 7 OF 25**

**EMBANKMENT CONSTRUCTION NOTES:**

1. STRIP 4" TO 6" OF TOPSOIL, STOCKPILE, AND SCARIFY 6" PRIOR TO PLACING COMPACTED FILL. SPREAD TOPSOIL OVER COMPACTED EMBANKMENT. COST OF TOPSOIL WORK SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "SITE PREPARATION".
2. THE EMBANKMENT SUBGRADE MUST BE STABLE, UNIFORMLY GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS, WITH NO ABRUPT GRADE CHANGES.
3. EMBANKMENT CONSTRUCTION SHALL BE FROM COMPACTED EARTHEN MATERIAL CONTAINING MINIMAL ORGANIC MATERIAL AND SHALL COMPLY WITH DU SPECIFICATION SECTION 204 "EMBANKMENT CONSTRUCTION."
4. BORROW AREA SHALL BE DEVELOPED TO UTILIZE CLAYEY FILL FOR ZONE 1 OF THE EMBANKMENT. ANY GRAVELLY OR HEAVY SAND MATERIAL SHALL BE USED FOR ZONE 2 AND ORGANICS & CATTAILS FOR ZONE 3.
5. EMBANKMENT FILL SHALL BE OBTAINED FROM THE SPECIFIED BORROW AREA. FILL SHALL BE PLACED IN LIFTS OF NO MORE THAN 8" AND COMPACTED PRIOR TO PLACING SUBSEQUENT LIFTS.









**BORROW NOTES:**

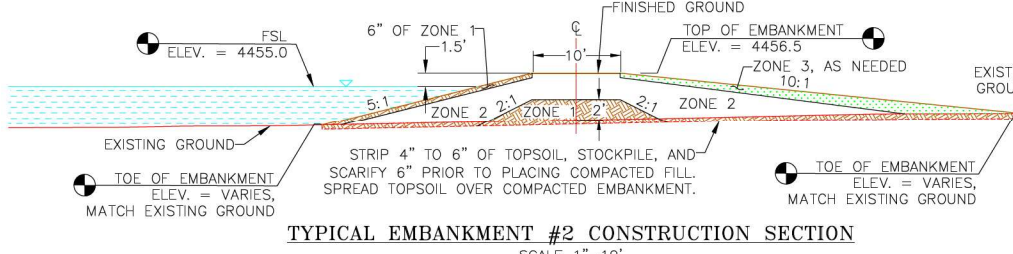
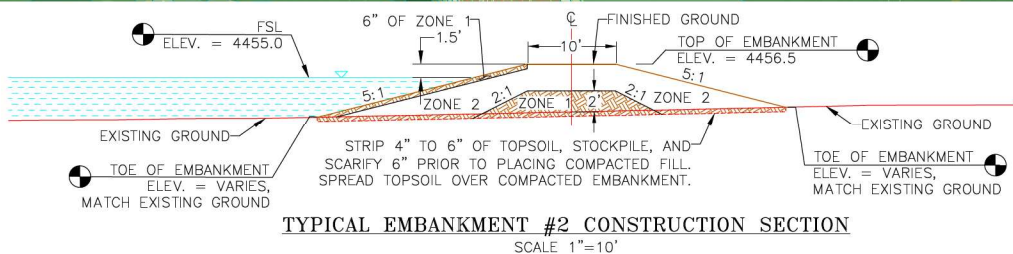
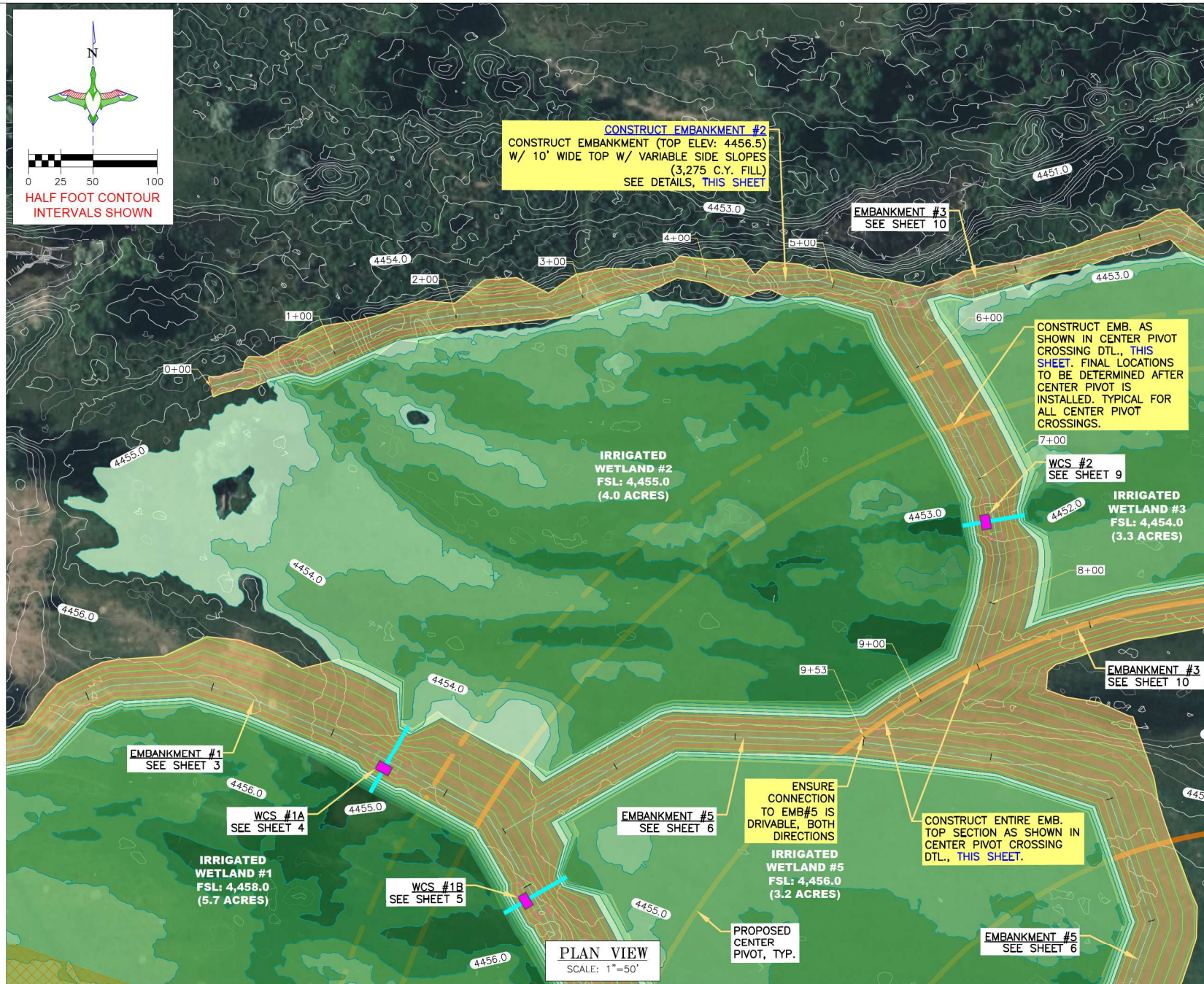
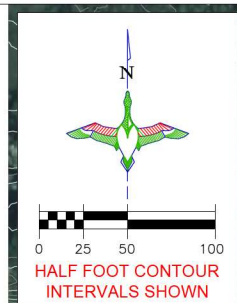
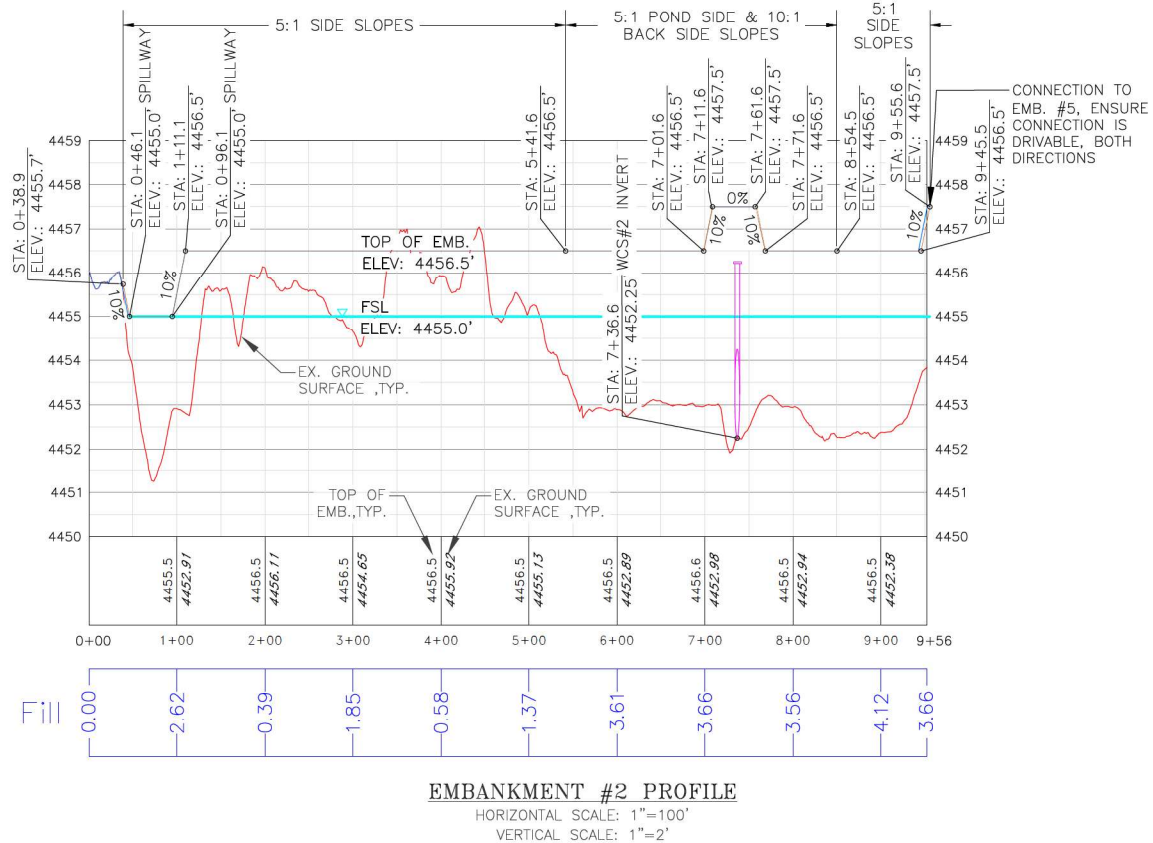
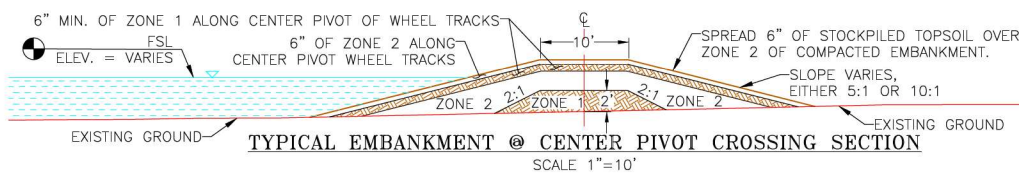
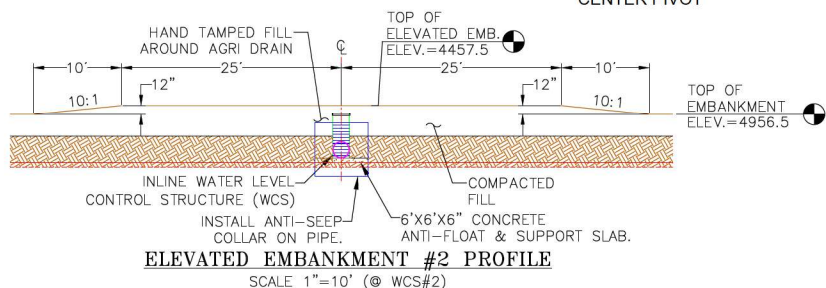
SEE SHEET 2

**SEEDING NOTES:**

SEE SHEET 2

**LEGEND**

- PROPERTY BOUNDARY 
- IRRIGATED WETLAND FULL SERVICE LEVEL/ WETLAND TOPOGRAPHY 
- BORROW LOCATION 
- EMBANKMENT CONSTRUCTION 
- WATERWAY 
- WCS (AGRI-DRAIN) 
- EXISTING CONTOURS 
- PROPOSED CENTER PIVOT 



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**DU CONSTRUCTION ENGINEER:**  
THOMAS PARKER, P.E.  
(970) 692-3375

**DU DESIGN ENGINEER:**  
KEVIN WARNER, P.E.  
(970) 590-1545



GREAT PLAINS REGIONAL OFFICE

P.E. SEAL:



DESIGNED BY: KJW  
DRAWN BY: JJW  
SURVEYED BY: TRP  
CHECKED BY:  
APPROVED BY:  
APPROVED BY:

REVISION:	DATE:	BY:
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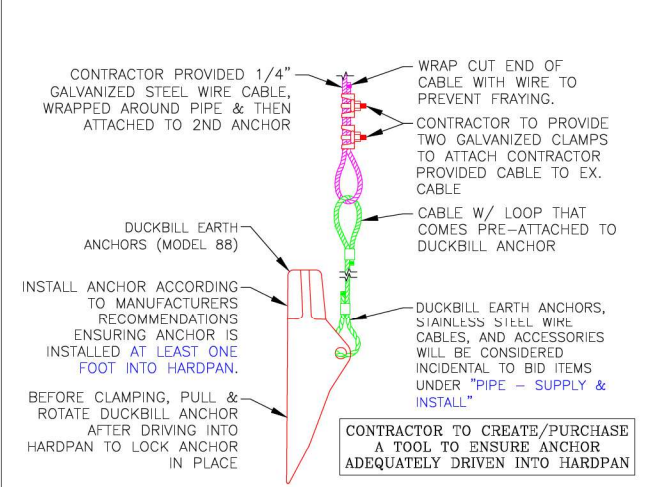
PROJECT: YOCAM RESTORATION  
SHEET TITLE: CONSTRUCT EMBANKMENT #2

DATE: 5/14/2026

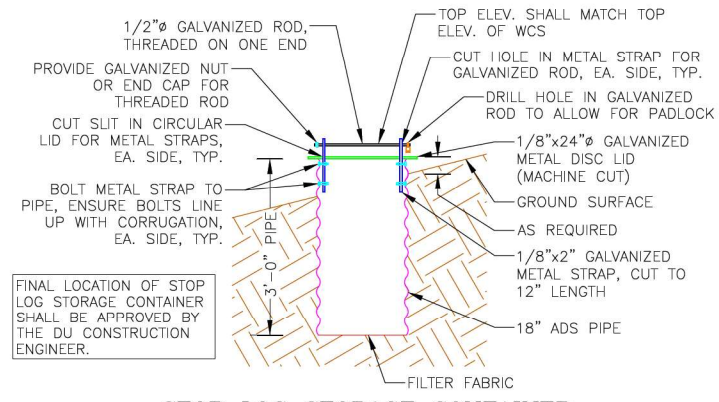
SHEET TITLE: CONSTRUCT EMBANKMENT #2

SCALES ARE ACCURATE ON 24"x36" SHEET SIZE  
DU PROJECT NUMBER: CO-376-101

SHEET NUMBER: 8  
SHEET 8 OF 25



**DUCKBILL EARTH ANCHOR (MODEL 88) DETAIL**  
NOT TO SCALE



**STOP LOG STORAGE CONTAINER**  
NOT TO SCALE

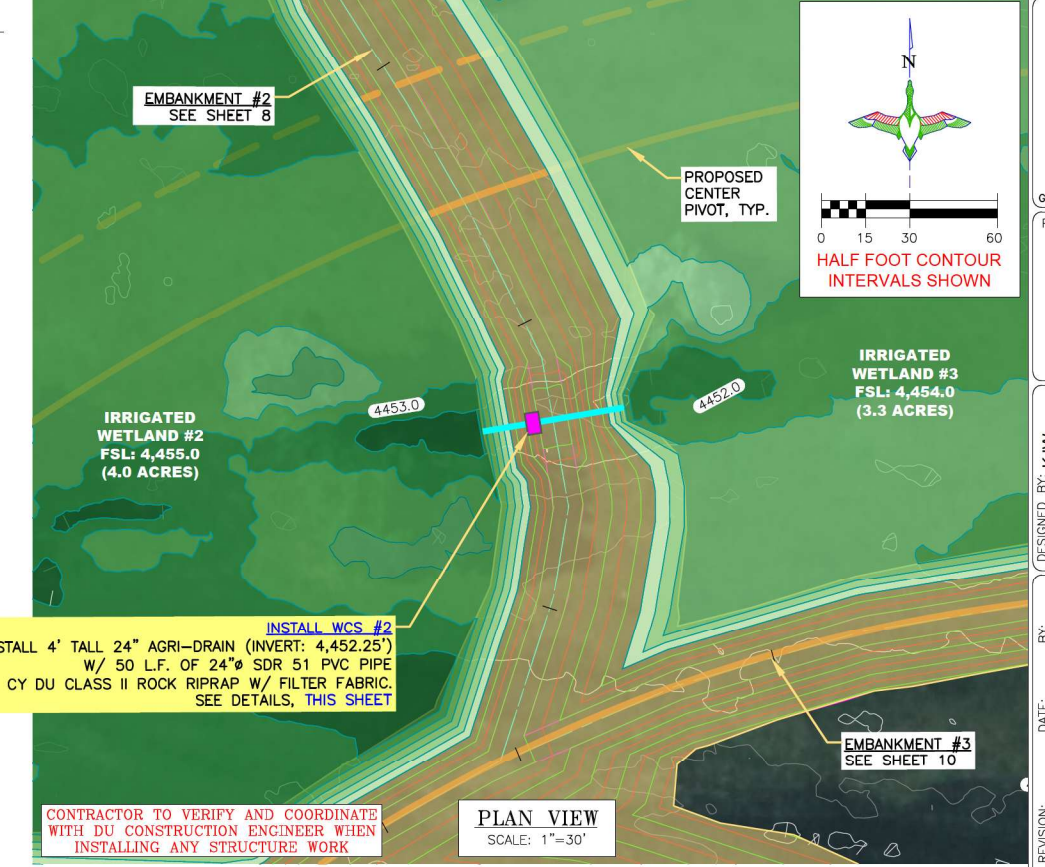
- STOP LOG STORAGE CONTAINER NOTES:**
1. THE STOP LOG STORAGE CONTAINER AND ITS INSTALLATION WILL BE CONSIDERED PART OF BID ITEM UNDER "WATER CONTROL STRUCTURE - STOP LOG STORAGE CONTAINER".
  2. STOP LOG STORAGE CONTAINER SHALL BE LOCATED ON THE WETLAND SIDESLOPE OF THE EMBANKMENT, FOUR FT. FROM THE EDGE OF EMB. TOP. PROVIDE TWO COATS OF A COLD GALVANIZING COMPOUND SPRAY, MANUFACTURED BY RUST-OLEUM, OR APPROVED EQUAL, ON ALL METAL PARTS OF THE STOP LOG STORAGE CONTAINER.

- BAR GUARD/RAT GUARD INSTALLATION NOTES:**
1. THE BAR GUARD/RAT GUARD OR APPROVED EQUAL AND ITS INSTALLATION WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  2. BAR GUARD TO BE INSTALLED ON THE UPSTREAM LOCATION OF THE WCS.
  3. RAT GUARD TO BE INSTALLED ON THE DOWNSTREAM LOCATION OF THE WCS.
  4. AGRI DRAIN CORP. TELEPHONE NUMBER IS 1-800-232-4742.



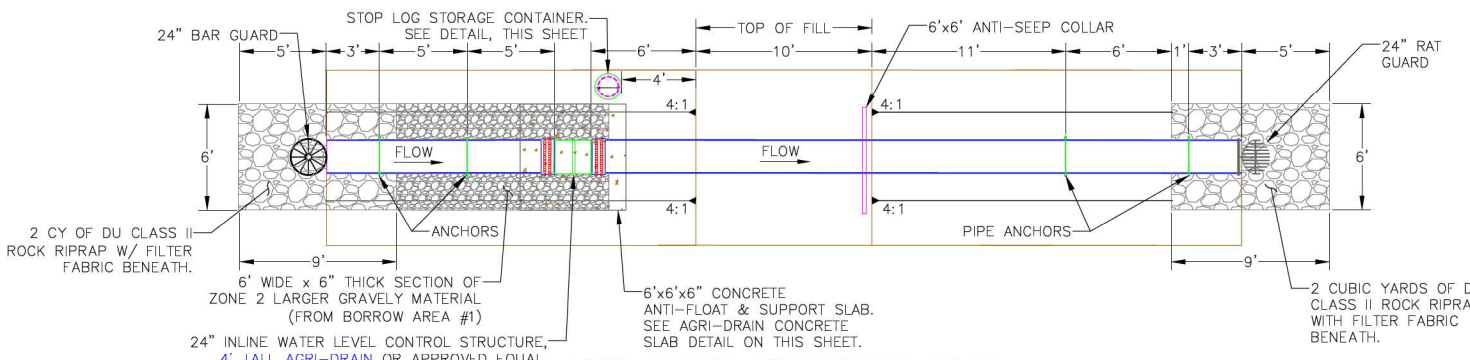
**LEGEND**

- PROPERTY BOUNDARY
- IRRIGATED WETLAND FULL SERVICE LEVEL/ WETLAND TOPOGRAPHY
- BORROW LOCATION
- EMBANKMENT CONSTRUCTION
- WATERWAY
- WCS (AGRI-DRAIN)
- EXISTING CONTOURS
- PROPOSED CENTER PIVOT



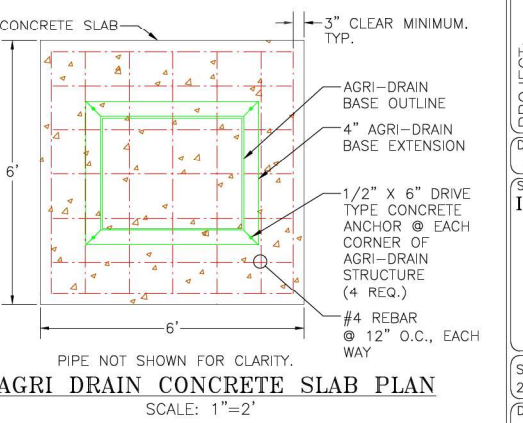
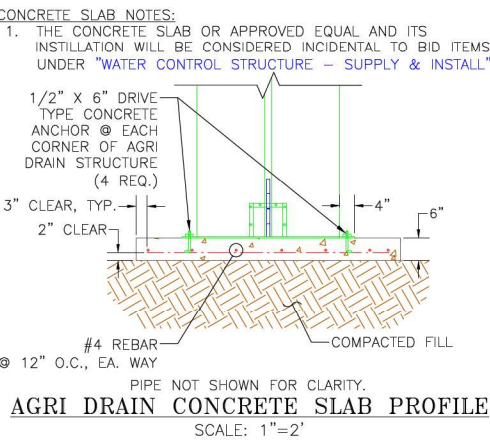
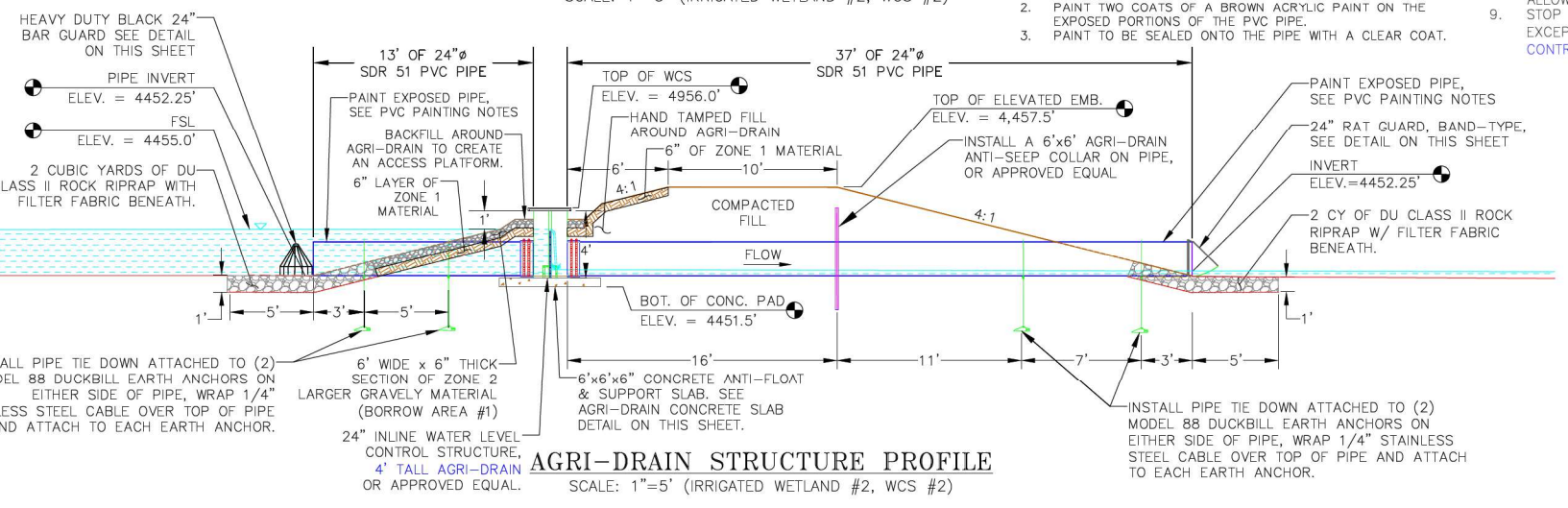
**INSTALL WCS #2**  
INSTALL 4' TALL 24" AGRI-DRAIN (INVERT: 4,452.25') W/ 50 L.F. OF 24" SDR 51 PVC PIPE W/ 4 CY DU CLASS II ROCK RIPRAP W/ FILTER FABRIC. SEE DETAILS, THIS SHEET

CONTRACTOR TO VERIFY AND COORDINATE WITH DU CONSTRUCTION ENGINEER WHEN INSTALLING ANY STRUCTURE WORK



- AGRI DRAIN STRUCTURE INSTALLATION NOTES:**
1. STRUCTURE, CONCRETE BASE, INLET AND OUTLET PIPE SHALL BE PLACED ON A LEVEL SURFACE OF COMPACTED SOIL.
  2. LEVEL STRUCTURE VERTICALLY PRIOR TO PLACING BACKFILL. BACKFILL AROUND STRUCTURE BY HAND IN 6" LIFTS. HAND TAMP ONLY.
  3. COST OF STRUCTURE INSTALLATION SHALL BE PAID AS BID ITEM "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  4. ANTI-SEEP COLLARS WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  5. AGRI DRAIN PVC STOP LOGS SHALL BE WATERTIGHT AND PROVIDED BY SUPPLIER.
  6. STOP LOGS WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  7. DUCKBILL EARTH ANCHORS, STAINLESS STEEL WIRE CABLES, AND ACCESSORIES WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  8. AGRI DRAIN CORP. TELEPHONE NUMBER IS 1-800-232-4742 SPECIFY SIZE AND TYPE OF PIPE WHEN ORDERING. ORDER BASE EXTENSION TO ALLOW ANCHORING OF AGRI DRAIN TO CONCRETE SLAB.
  9. STOP LOG STORAGE CONTAINER AND ALL ASSOCIATED MATERIALS, EXCEPT THE PIPE, WILL BE CONSIDERED PART OF BID ITEM "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".

- PVC PAINTING NOTES:**
1. PRIME THE PIPE WITH A LATEX PRIMER.
  2. PAINT TWO COATS OF A BROWN ACRYLIC PAINT ON THE EXPOSED PORTIONS OF THE PVC PIPE.
  3. PAINT TO BE SEALED ONTO THE PIPE WITH A CLEAR COAT.



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**DU CONSTRUCTION ENGINEER:**  
THOMAS PARKER, P.E.  
(970) 692-3375

**DU DESIGN ENGINEER:**  
KEVIN WARNER, P.E.  
(970) 590-1545

**DUCKS UNLIMITED INC.**  
GREAT PLAINS REGIONAL OFFICE

P.E. SEAL:  
COLORADO LICENSED PROFESSIONAL ENGINEER  
KEYVIN J. WARNER  
47794

DESIGNED BY:	KJW
DRAWN BY:	JJW
SURVEYED BY:	TRP
CHECKED BY:	
APPROVED BY:	
APPROVED BY:	
DATE:	
REVISION:	
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**PROJECT:**  
YOCAM RESTORATION

**SHEET TITLE:**  
INSTALL WCS #2

**DATES:**  
5/14/2026

**SHEET TITLE:**  
INSTALL WCS #2

**DU PROJECT NUMBER:**  
CO-376-101

**SHEET NUMBER:**  
9

**SCALE:**  
SCALES ARE ACCURATE ON 24"x36" SHEET SIZE

**OTHER:**  
SHEET 9 OF 25





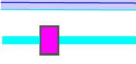



**EMBANKMENT CONSTRUCTION NOTES:**

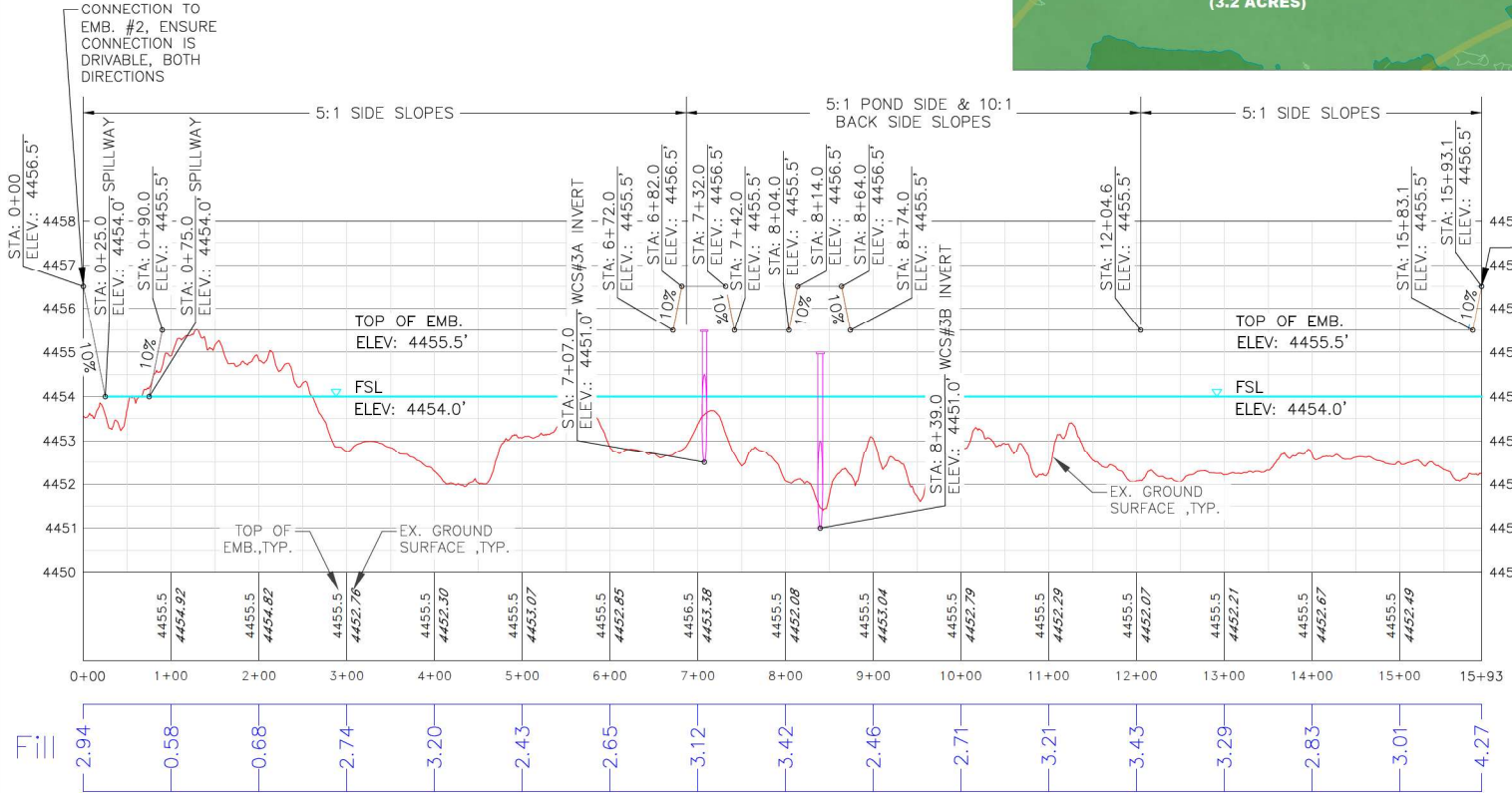
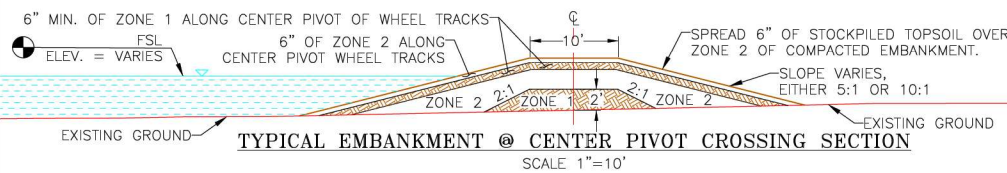
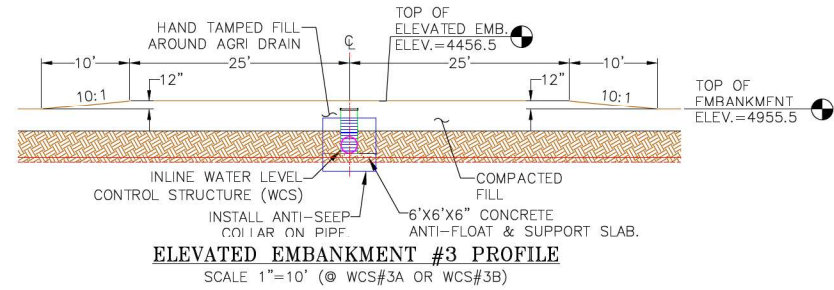
1. STRIP 4" TO 6" OF TOPSOIL, STOCKPILE, AND SCARIFY 6" PRIOR TO PLACING COMPACTED FILL. SPREAD TOPSOIL OVER COMPACTED EMBANKMENT. COST OF TOPSOIL WORK SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "SITE PREPARATION".
2. THE EMBANKMENT SUBGRADE MUST BE STABLE, UNIFORMLY GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS, WITH NO ABRUPT GRADE CHANGES.
3. EMBANKMENT CONSTRUCTION SHALL BE FROM COMPACTED EARTHEN MATERIAL CONTAINING MINIMAL ORGANIC MATERIAL AND SHALL COMPLY WITH DU SPECIFICATION SECTION 204 "EMBANKMENT CONSTRUCTION."
4. BORROW AREA SHALL BE DEVELOPED TO UTILIZE CLAYEY FILL FOR ZONE 1 OF THE EMBANKMENT. ANY GRAVELLY OR HEAVY SAND MATERIAL SHALL BE USED FOR ZONE 2 AND ORGANICS & CATTAILS FOR ZONE 3.
5. EMBANKMENT FILL SHALL BE OBTAINED FROM THE SPECIFIED BORROW AREA. FILL SHALL BE PLACED IN **LIFTS** OF NO MORE THAN **8" AND COMPACTED** PRIOR TO PLACING SUBSEQUENT LIFTS.
6. CONTRACTOR TO SEED FINISHED EMBANKMENT. SEE SEEDING NOTES, THIS SHEET.

**BORROW NOTES:**  
SEE SHEET 2

**SEEDING NOTES:**  
SEE SHEET 2

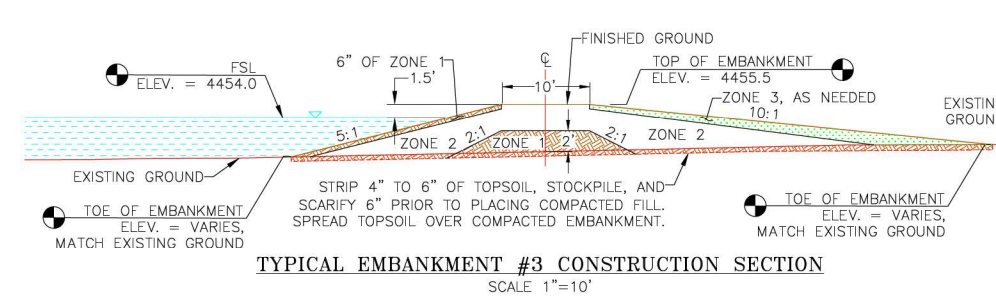
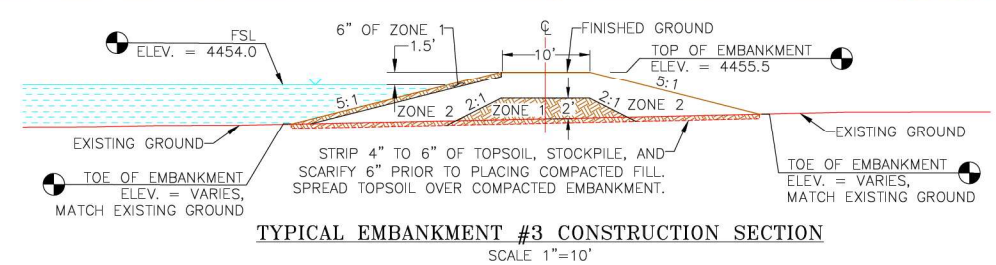
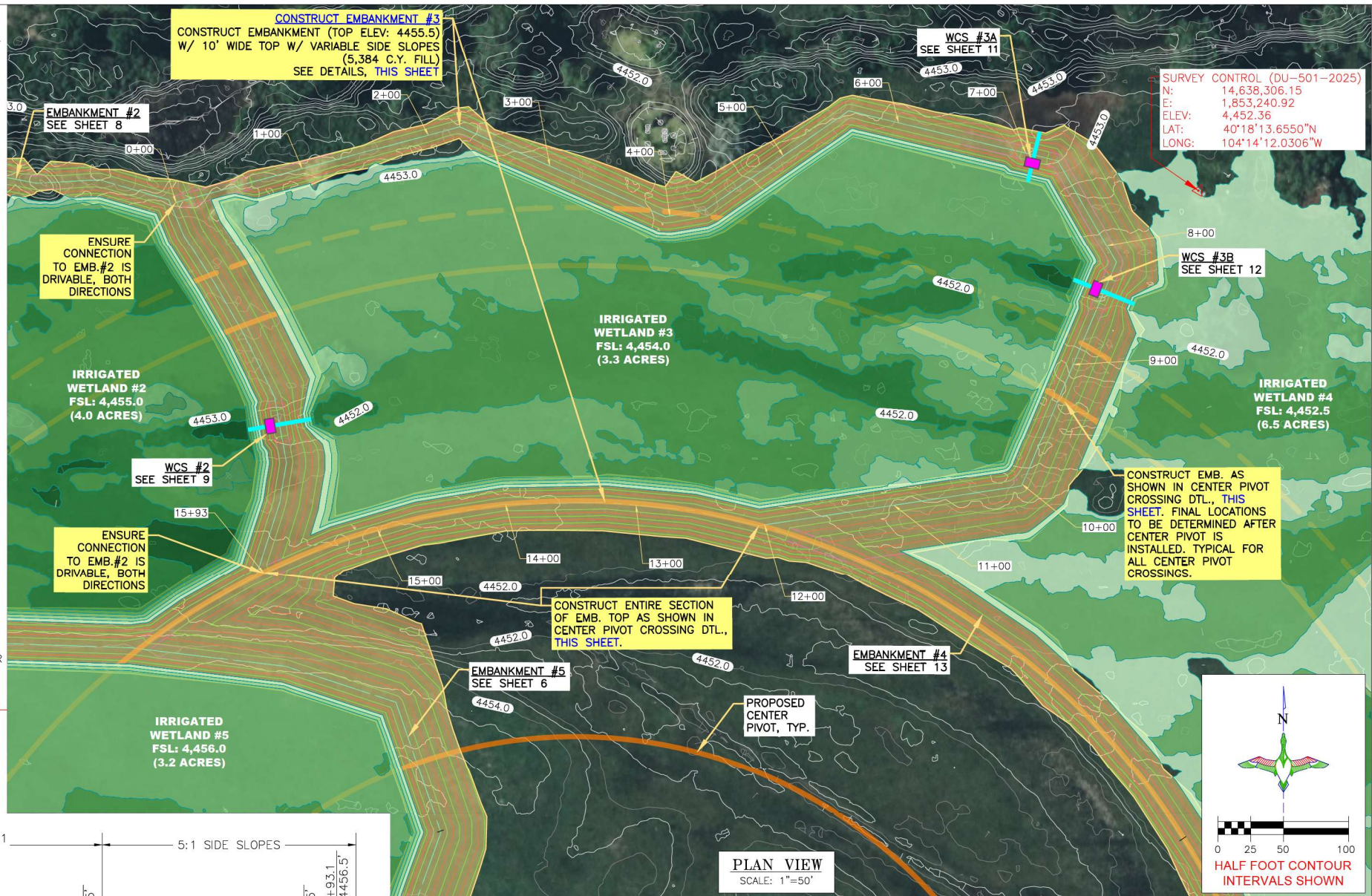
**LEGEND**

- PROPERTY BOUNDARY 
- IRRIGATED WETLAND FULL SERVICE LEVEL/ WETLAND TOPOGRAPHY 
- BORROW LOCATION 
- EMBANKMENT CONSTRUCTION 
- WATERWAY 
- WCS (AGRI-DRAIN) 
- EXISTING CONTOURS 
- PROPOSED CENTER PIVOT 



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**DUCKS UNLIMITED INC.**  
GREAT PLAINS REGIONAL OFFICE  
P.E. SEAL: KEVIN J. WARNER, LICENSED PROFESSIONAL ENGINEER, NO. 47794

DESIGNED BY: KJW  
DRAWN BY: JJW  
SURVEYED BY: TRP  
CHECKED BY:  
APPROVED BY:  
APPROVED BY:

1	DATE:
2	REVISION:
3	
4	
5	
6	
7	
8	

PROJECT: YOCAM RESTORATION  
SHEET TITLE: CONSTRUCT EMBANKMENT #3

DATE: 5/14/2026  
SHEET TITLE: CONSTRUCT EMBANKMENT #3  
DU PROJECT NUMBER: CO-376-101  
SHEET NUMBER: 10  
SHEET 10 OF 25

DU CONSTRUCTION ENGINEER: THOMAS PARKER, P.E. (970) 692-3375  
DU DESIGN ENGINEER: KEVIN WARNER, P.E. (970) 590-1545





**EMBANKMENT CONSTRUCTION NOTES:**

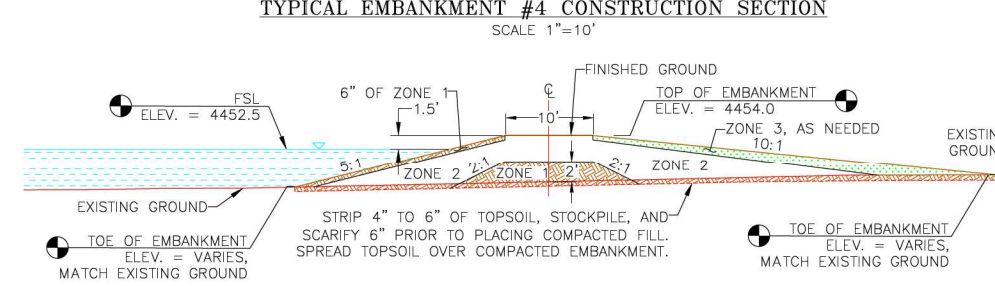
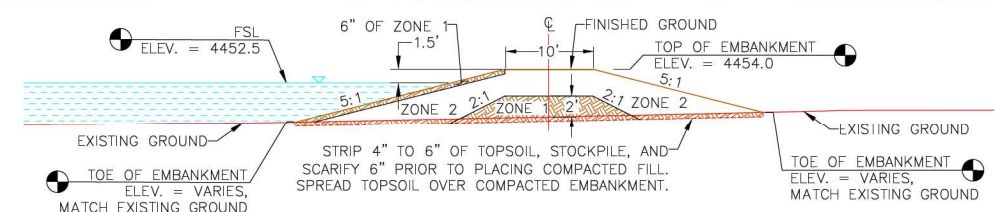
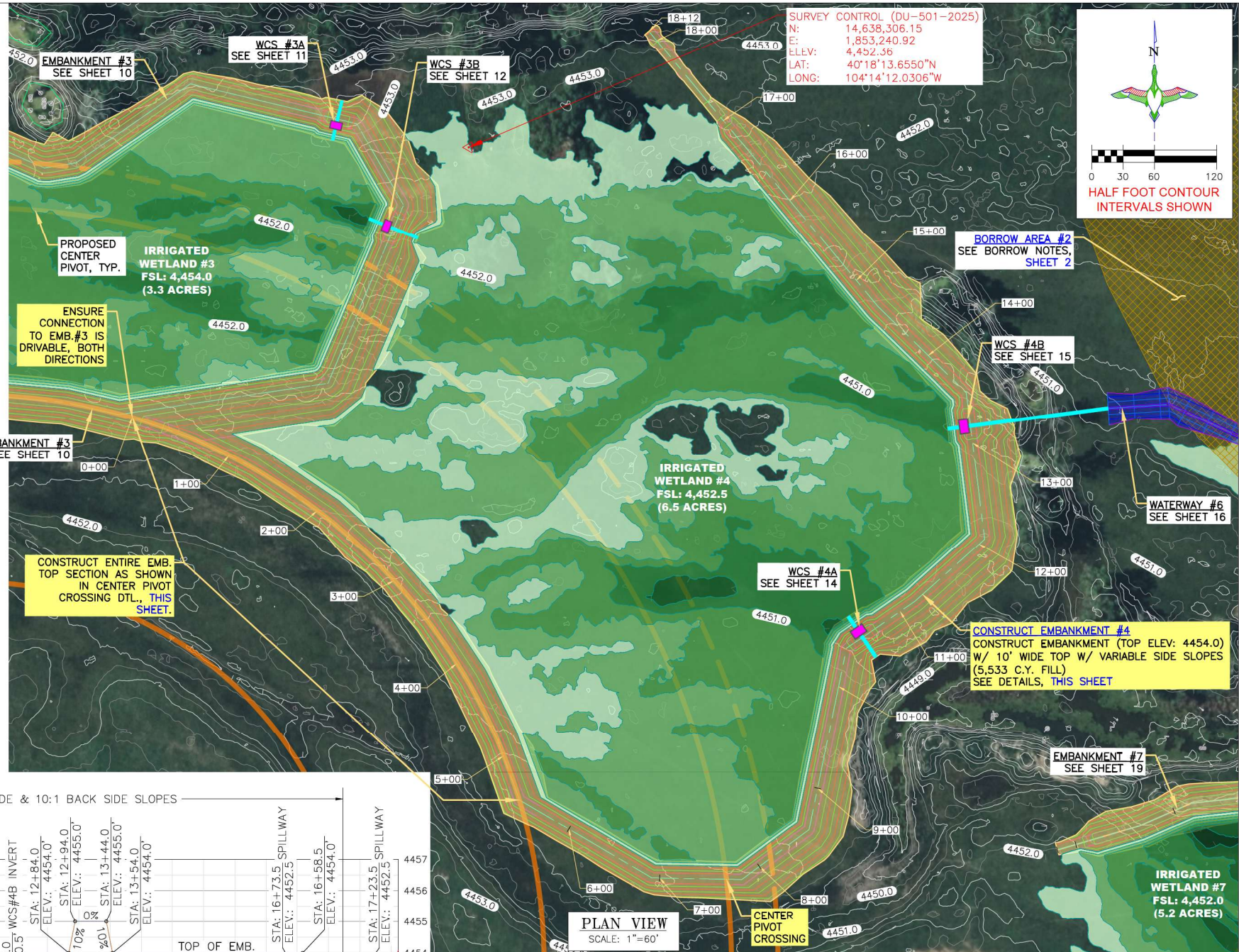
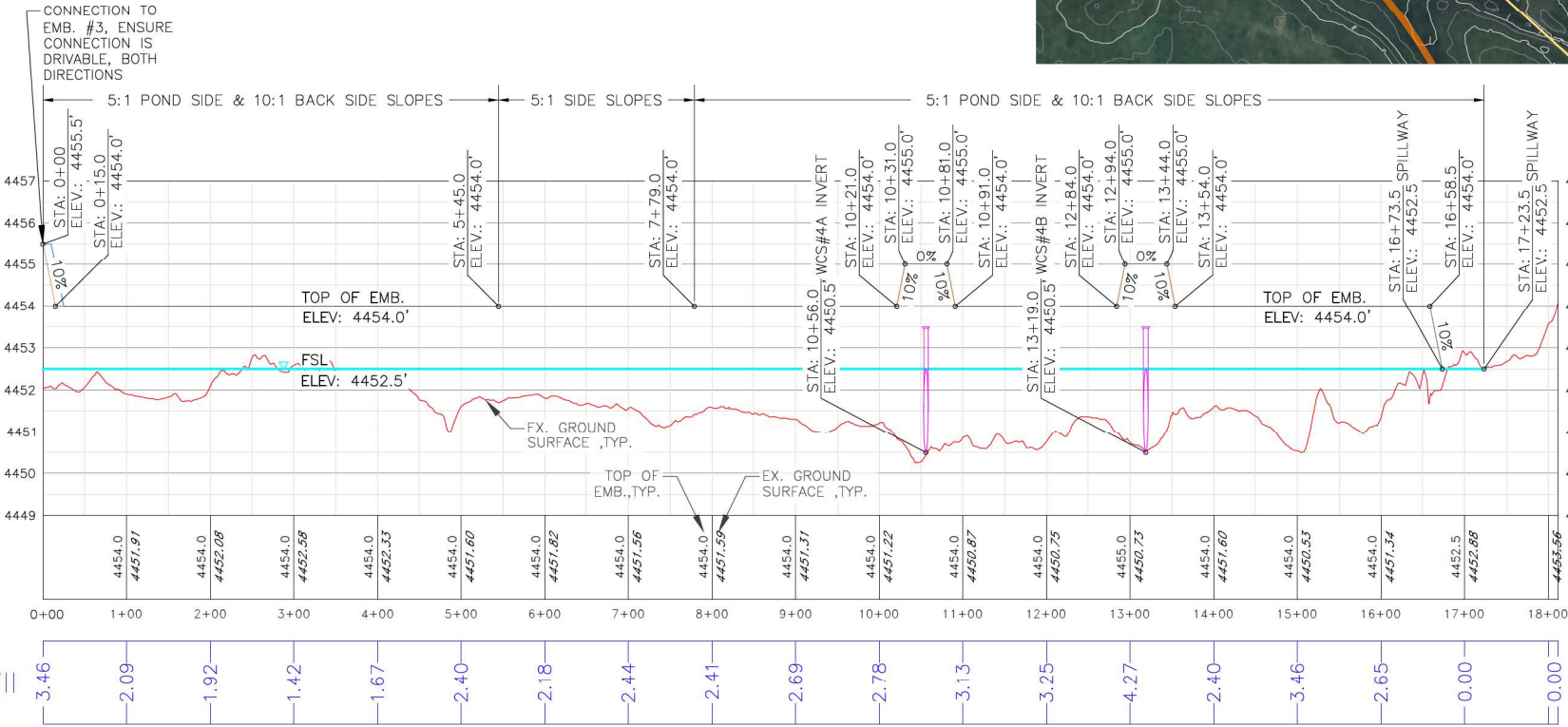
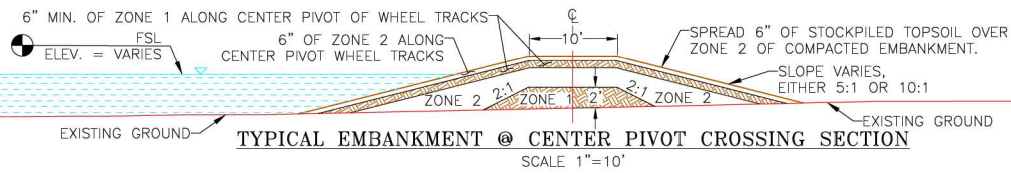
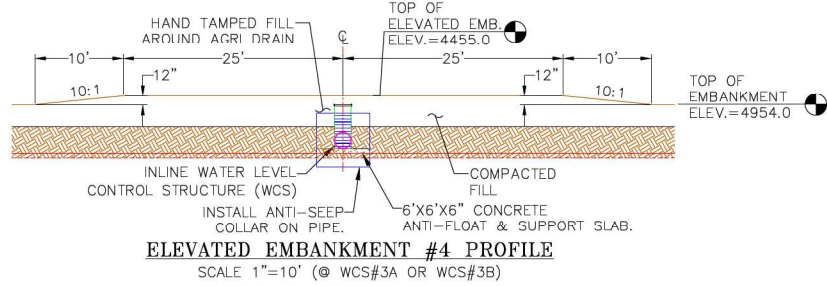
1. STRIP 4" TO 6" OF TOPSOIL, STOCKPILE, AND SCARIFY 6" PRIOR TO PLACING COMPACTED FILL. SPREAD TOPSOIL OVER COMPACTED EMBANKMENT. COST OF TOPSOIL WORK SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "SITE PREPARATION".
2. THE EMBANKMENT SUBGRADE MUST BE STABLE, UNIFORMLY GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS, WITH NO ABRUPT GRADE CHANGES.
3. EMBANKMENT CONSTRUCTION SHALL BE FROM COMPACTED EARTHEN MATERIAL CONTAINING MINIMAL ORGANIC MATERIAL AND SHALL COMPLY WITH DU SPECIFICATION SECTION 204 "EMBANKMENT CONSTRUCTION."
4. BORROW AREA SHALL BE DEVELOPED TO UTILIZE CLAYEY FILL FOR ZONE 1 OF THE EMBANKMENT. ANY GRAVELLY OR HEAVY SAND MATERIAL SHALL BE USED FOR ZONE 2 AND ORGANICS & CATTAILS FOR ZONE 3.
5. EMBANKMENT FILL SHALL BE OBTAINED FROM THE SPECIFIED BORROW AREA. FILL SHALL BE PLACED IN LIFTS OF NO MORE THAN 8" AND COMPACTED PRIOR TO PLACING SUBSEQUENT LIFTS.
6. CONTRACTOR TO SEED FINISHED EMBANKMENT. SEE SEEDING NOTES, THIS SHEET.

**BORROW NOTES:**  
SEE SHEET 2

**SEEDING NOTES:**  
SEE SHEET 2

**LEGEND**

- PROPERTY BOUNDARY
- IRRIGATED WETLAND FULL SERVICE LEVEL/ WETLAND TOPOGRAPHY
- BORROW LOCATION
- EMBANKMENT CONSTRUCTION
- WATERWAY
- WCS (AGRI-DRAIN)
- EXISTING CONTOURS
- PROPOSED CENTER PIVOT



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DU CONSTRUCTION ENGINEER: THOMAS PARKER, P.E. (970) 692-3375  
DU DESIGN ENGINEER: KEVIN WARNER, P.E. (970) 590-1545

**DUCKS UNLIMITED INC.**  
GREAT PLAINS REGIONAL OFFICE  
P.E. SEAL: KEVIN J. WARNER, LICENSED PROFESSIONAL ENGINEER, NO. 47794

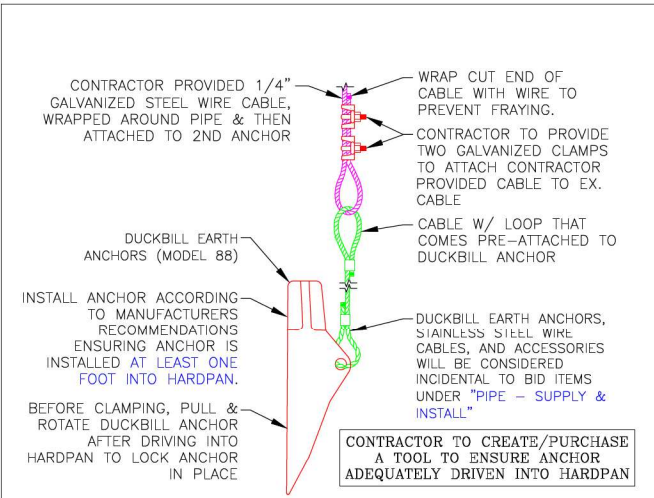
DESIGNED BY: KJW  
DRAWN BY: JJW  
SURVEYED BY: TRP  
CHECKED BY:  
APPROVED BY:  
APPROVED BY:

1	DATE:
2	REVISION:
3	
4	
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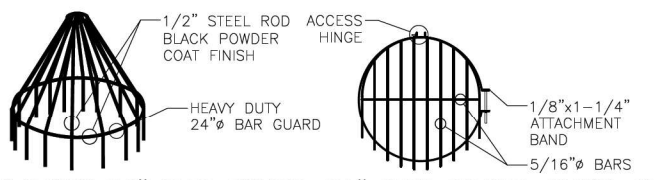
**YOCAM RESTORATION**  
PROJECT TITLE: **CONSTRUCT EMBANKMENT #4**

DATE: 5/14/2026  
SHEET TITLE: **CONSTRUCT EMBANKMENT #4**

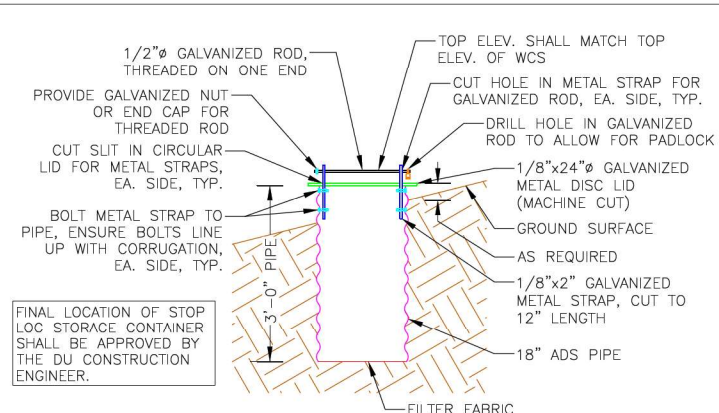
DU PROJECT NUMBER: **CO-376-101**  
SHEET NUMBER: **13**  
SHEET 13 OF 25



**DUCKBILL EARTH ANCHOR (MODEL 88) DETAIL**  
NOT TO SCALE



**HEAVY DUTY 24" BAR GUARD 24" RAT GUARD, BAND-TYPE**  
NOT TO SCALE

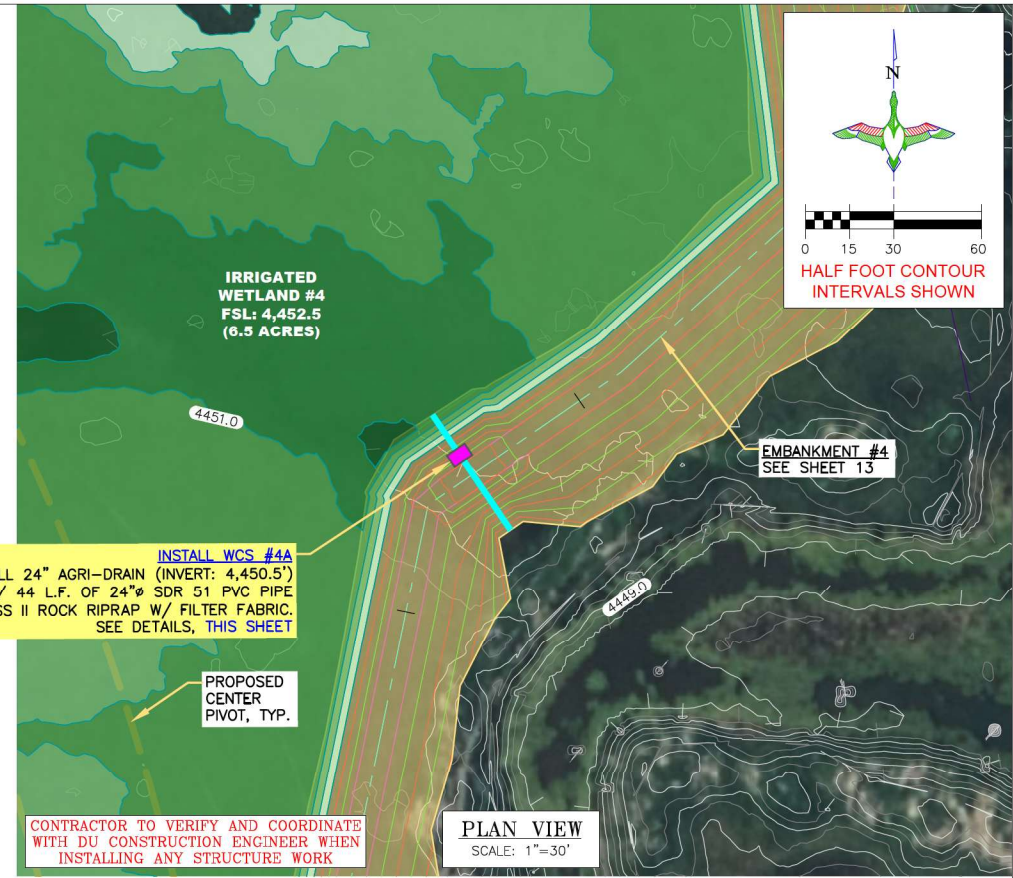
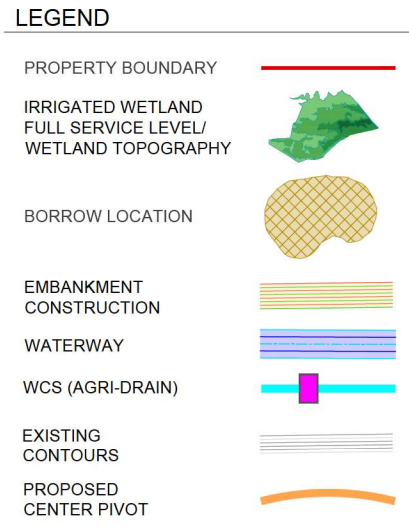


**STOP LOG STORAGE CONTAINER**  
NOT TO SCALE

- STOP LOG STORAGE CONTAINER NOTES:**
1. THE STOP LOG STORAGE CONTAINER AND ITS INSTALLATION WILL BE CONSIDERED PART OF BID ITEM UNDER "WATER CONTROL STRUCTURE - STOP LOG STORAGE CONTAINER".
  2. STOP LOG STORAGE CONTAINER SHALL BE LOCATED ON THE WETLAND SIDESLOPE OF THE EMBANKMENT, FOUR FT. FROM THE EDGE OF EMB. TOP.
  3. PROVIDE TWO COATS OF A COLD GALVANIZING COMPOUND SPRAY, MANUFACTURED BY RUST-OLEUM, OR APPROVED EQUAL, ON ALL METAL PARTS OF THE STOP LOG STORAGE CONTAINER.

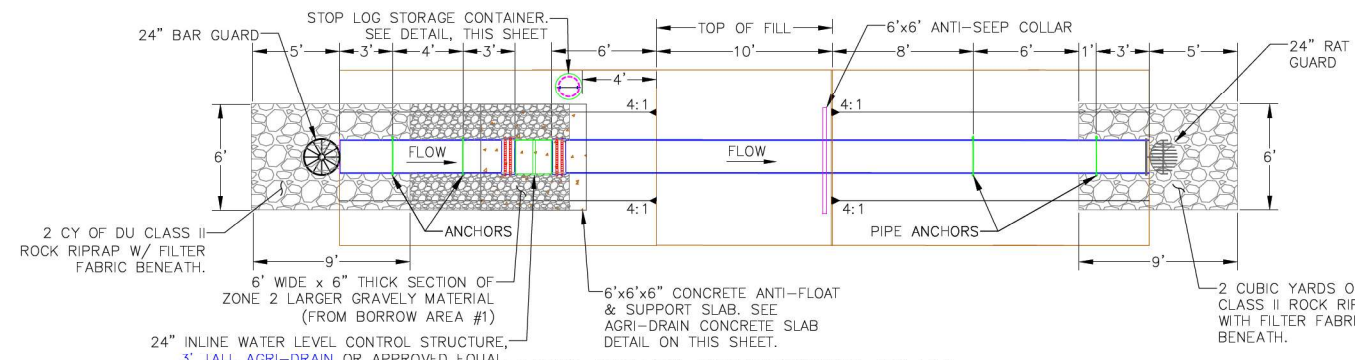
**BAR GUARD/RAT GUARD INSTALLATION NOTES:**

1. THE BAR GUARD/RAT GUARD OR APPROVED EQUAL AND ITS INSTALLATION WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
2. BAR GUARD TO BE INSTALLED ON THE UPSTREAM LOCATION OF THE WCS.
3. RAT GUARD TO BE INSTALLED ON THE DOWNSTREAM LOCATION OF THE WCS.
4. AGRI DRAIN CORP. TELEPHONE NUMBER IS 1-800-232-4742.



**PLAN VIEW**  
SCALE: 1"=30'

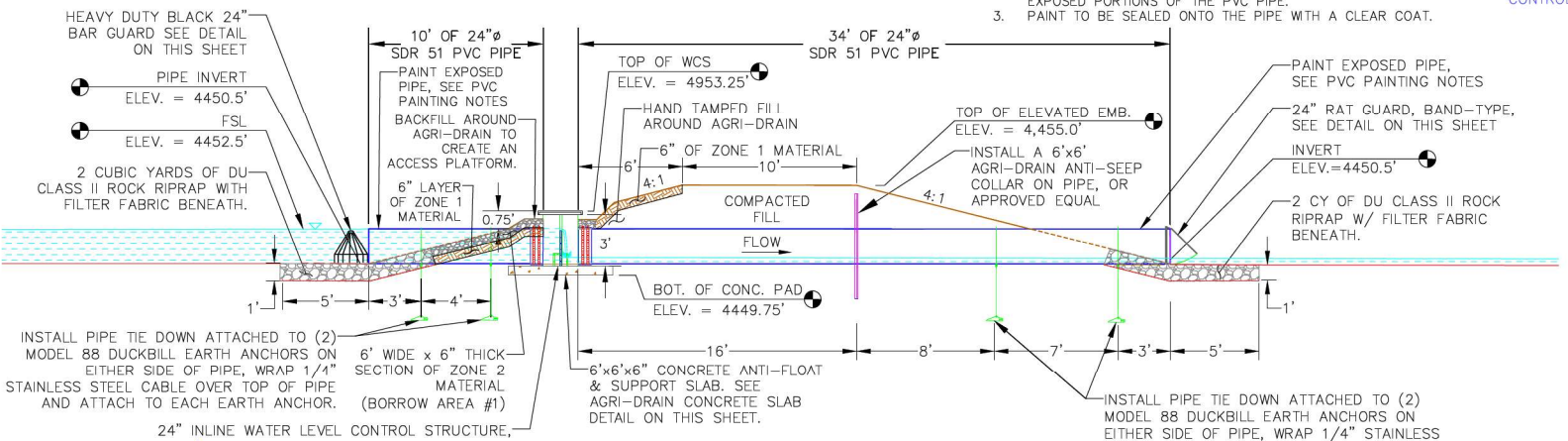
**DUCKS UNLIMITED INC.**  
GREAT PLAINS REGIONAL OFFICE  
P.E. SEAL:  
KEVIN J. WARNER  
47794  
PROFESSIONAL ENGINEER  
DESIGNED BY: KJW  
DRAWN BY: JJW  
SURVEYED BY: TRP  
CHECKED BY:  
APPROVED BY:  
APPROVED BY:  
PROJECT:  
YOCAM RESTORATION  
SHEET TITLE:  
INSTALL WCS #4A  
DATE: 5/14/2026  
SHEET TITLE:  
INSTALL WCS #4A  
SCALE: ACCURATE ON 24"x36" SHEET SIZE  
DU PROJECT NUMBER:  
CO-376-101  
SHEET NUMBER:  
14  
SHEET 14 OF 25



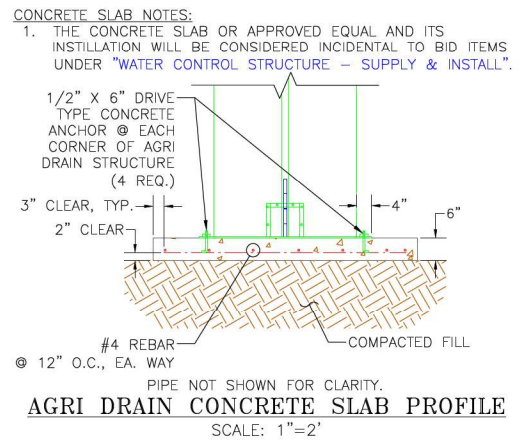
**AGRI-DRAIN STRUCTURE PLAN**  
SCALE: 1"=5' (IRRIGATED WETLAND #4, WCS #4A)

- AGRI DRAIN STRUCTURE INSTALLATION NOTES:**
1. STRUCTURE, CONCRETE BASE, INLET AND OUTLET PIPE SHALL BE PLACED ON A LEVEL SURFACE OF COMPACTED SOIL.
  2. LEVEL STRUCTURE VERTICALLY PRIOR TO PLACING BACKFILL. BACKFILL AROUND STRUCTURE BY HAND IN 6" LIFTS. HAND TAMP ONLY.
  3. COST OF STRUCTURE INSTALLATION SHALL BE PAID AS BID ITEM "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  4. ANTI-SEEP COLLARS WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  5. AGRI DRAIN PVC STOP LOGS SHALL BE WATERTIGHT AND PROVIDED BY SUPPLIER.
  6. STOP LOGS WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  7. DUCKBILL EARTH ANCHORS, STAINLESS STEEL WIRE CABLES, AND ACCESSORIES WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  8. AGRI DRAIN CORP. TELEPHONE NUMBER IS 1-800-232-4742 SPECIFY SIZE AND TYPE OF PIPE WHEN ORDERING. ORDER BASE EXTENSION TO ALLOW ANCHORING OF AGRI DRAIN TO CONCRETE SLAB.
  9. STOP LOG STORAGE CONTAINER AND ALL ASSOCIATED MATERIALS, EXCEPT THE PIPE, WILL BE CONSIDERED PART OF BID ITEM "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".

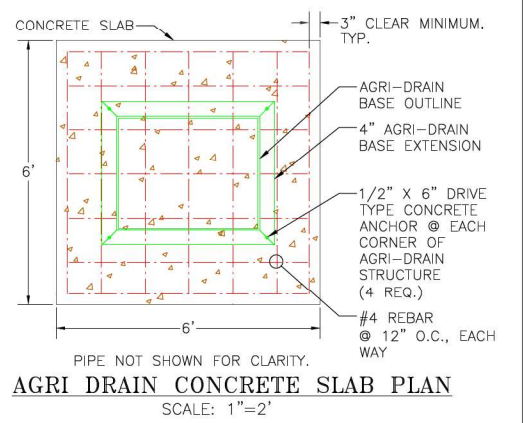
- PVC PAINTING NOTES:**
1. PRIME THE PIPE WITH A LATEX PRIMER.
  2. PAINT TWO COATS OF A BROWN ACRYLIC PAINT ON THE EXPOSED PORTIONS OF THE PVC PIPE.
  3. PAINT TO BE SEALED ONTO THE PIPE WITH A CLEAR COAT.



**AGRI-DRAIN STRUCTURE PROFILE**  
SCALE: 1"=5' (IRRIGATED WETLAND #4, WCS #4A)



**AGRI DRAIN CONCRETE SLAB PROFILE**  
SCALE: 1"=2'



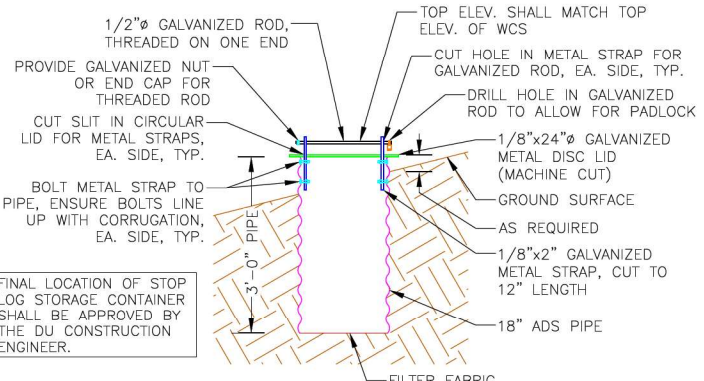
**AGRI DRAIN CONCRETE SLAB PLAN**  
SCALE: 1"=2'

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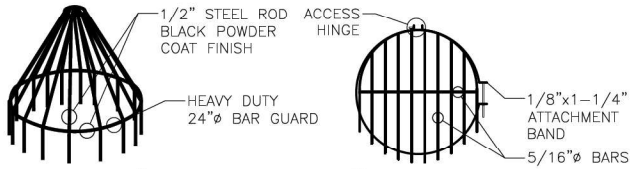
**DU CONSTRUCTION ENGINEER:**  
THOMAS PARKER, P.E.  
(970) 692-3375

**DU DESIGN ENGINEER:**  
KEVIN WARNER, P.E.  
(970) 590-1545



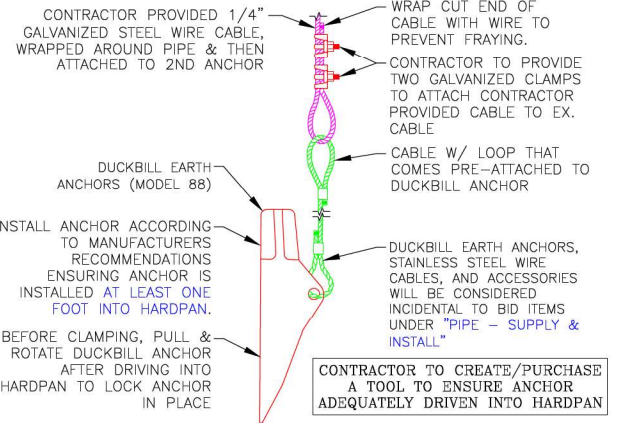
**STOP LOG STORAGE CONTAINER**  
NOT TO SCALE

- STOP LOG STORAGE CONTAINER NOTES:**
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  2. STOP LOG STORAGE CONTAINER SHALL BE LOCATED ON THE WETLAND SIDESLOPE OF THE EMBANKMENT, FOUR FT. FROM THE EDGE OF EMB. TOP.
  3. PROVIDE TWO COATS OF A COLD GALVANIZING COMPOUND SPRAY, MANUFACTURED BY RUST-OLEUM, OR APPROVED EQUAL, ON ALL METAL PARTS OF THE STOP LOG STORAGE CONTAINER.

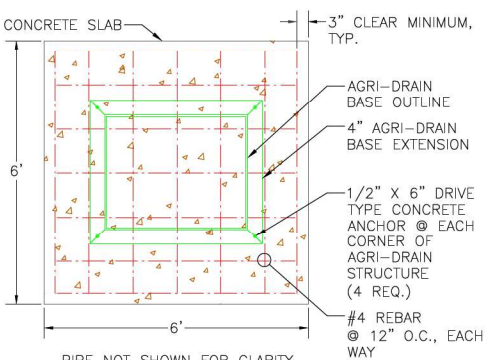


**HEAVY DUTY 24" BAR GUARD 24" RAT GUARD, BAND-TYPE**  
NOT TO SCALE

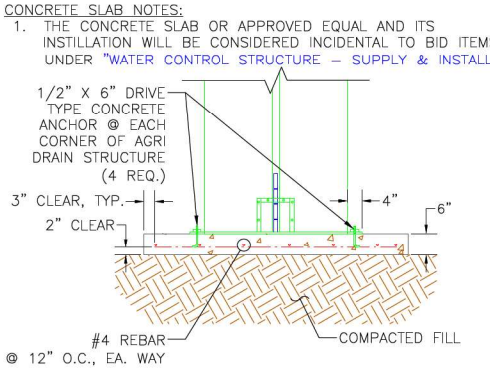
- BAR GUARD/RAT GUARD INSTALLATION NOTES:**
1. THE BAR GUARD/RAT GUARD OR APPROVED EQUAL AND ITS INSTALLATION WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  2. BAR GUARD TO BE INSTALLED ON THE UPSTREAM LOCATION OF THE WCS.
  3. RAT GUARD TO BE INSTALLED ON THE DOWNSTREAM LOCATION OF THE WCS.
  4. AGRI DRAIN CORP. TELEPHONE NUMBER IS 1-800-232-4742.



**DUCKBILL EARTH ANCHOR (MODEL 88) DETAIL**  
NOT TO SCALE



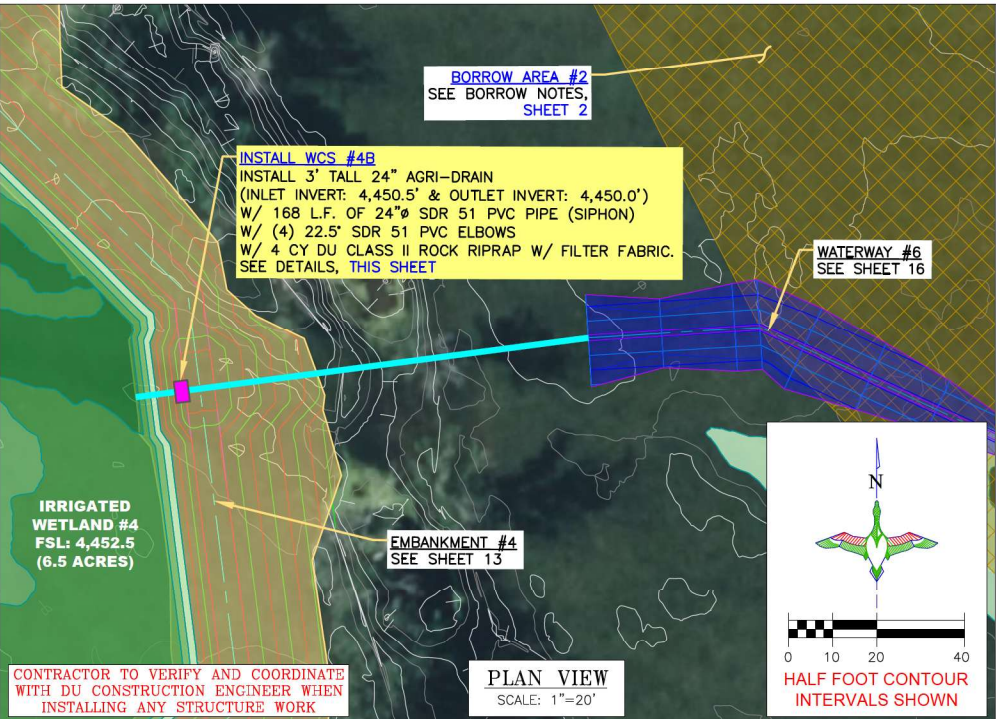
**AGRI DRAIN CONCRETE SLAB PLAN**  
SCALE: 1"=2'



**AGRI DRAIN CONCRETE SLAB PROFILE**  
SCALE: 1"=2'

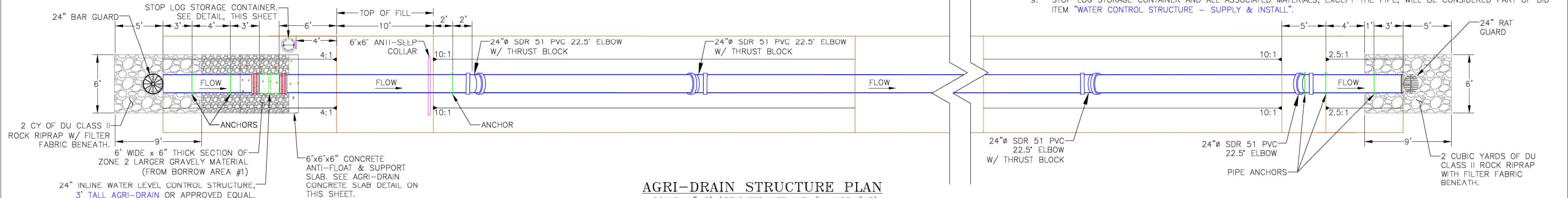
- CONCRETE SLAB NOTES:**
1. THE CONCRETE SLAB OR APPROVED EQUAL AND ITS INSTALLATION WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".

- LEGEND**
- PROPERTY BOUNDARY
  - IRRIGATED WETLAND FULL SERVICE LEVEL/ WETLAND TOPOGRAPHY
  - BORROW LOCATION
  - EMBANKMENT CONSTRUCTION
  - WATERWAY
  - WCS (AGRI-DRAIN)
  - EXISTING CONTOURS

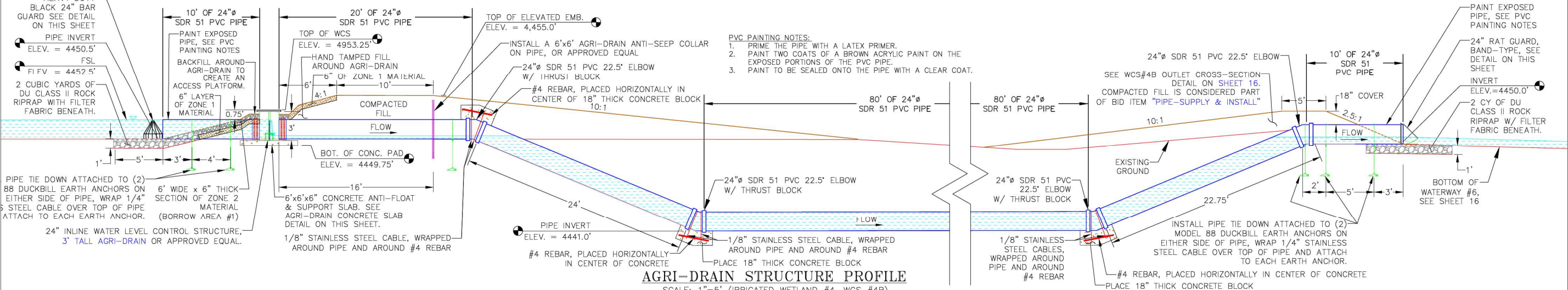


**PLAN VIEW**  
SCALE: 1"=20'

- AGRI DRAIN STRUCTURE INSTALLATION NOTES:**
1. STRUCTURE, CONCRETE BASE, INLET AND OUTLET PIPE SHALL BE PLACED ON A LEVEL SURFACE OF COMPACTED SOIL.
  2. LEVEL STRUCTURE VERTICALLY PRIOR TO PLACING BACKFILL. BACKFILL AROUND STRUCTURE BY HAND IN 6" LIFTS. HAND TAMP ONLY.
  3. COST OF STRUCTURE INSTALLATION SHALL BE PAID AS BID ITEM "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  4. ANTI-SLEEP COLLARS WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  5. AGRI DRAIN PVC STOP LOGS SHALL BE WATERTIGHT AND PROVIDED BY SUPPLIER.
  6. STOP LOGS WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  7. DUCKBILL EARTH ANCHORS, STAINLESS STEEL WIRE CABLES, AND ACCESSORIES WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  8. AGRI DRAIN CORP. TELEPHONE NUMBER IS 1-800-232-4742. SPECIFY SIZE AND TYPE OF PIPE WHEN ORDERING. ORDER BASE EXTENSION TO ALLOW ANCHORING OF AGRI DRAIN TO CONCRETE SLAB.
  9. STOP LOG STORAGE CONTAINER AND ALL ASSOCIATED MATERIALS, EXCEPT THE PIPE, WILL BE CONSIDERED PART OF BID ITEM "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".



**AGRI-DRAIN STRUCTURE PLAN**  
SCALE: 1"=5' (IRRIGATED WETLAND #4, WCS #4B)



**AGRI-DRAIN STRUCTURE PROFILE**  
SCALE: 1"=5' (IRRIGATED WETLAND #4, WCS #4B)

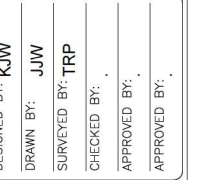
- PVC PAINTING NOTES:**
1. PRIME THE PIPE WITH A LATEX PRIMER.
  2. PAINT TWO COATS OF A BROWN ACRYLIC PAINT ON THE EXPOSED PORTIONS OF THE PVC PIPE.
  3. PAINT TO BE SEALED ONTO THE PIPE WITH A CLEAR COAT.

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**DU CONSTRUCTION ENGINEER:**  
THOMAS PARKER, P.E.  
(970) 692-3375

**DU DESIGN ENGINEER:**  
KEVIN WARNER, P.E.  
(970) 590-1545



DESIGNED BY:	KJW
DRAWN BY:	JJW
SURVEYED BY:	TRP
CHECKED BY:	
APPROVED BY:	
DATE:	
REVISION:	
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**PROJECT:**  
YOCAM RESTORATION

**SHEET TITLE:**  
INSTALL WCS #4B

**DATES:**  
5/14/2026

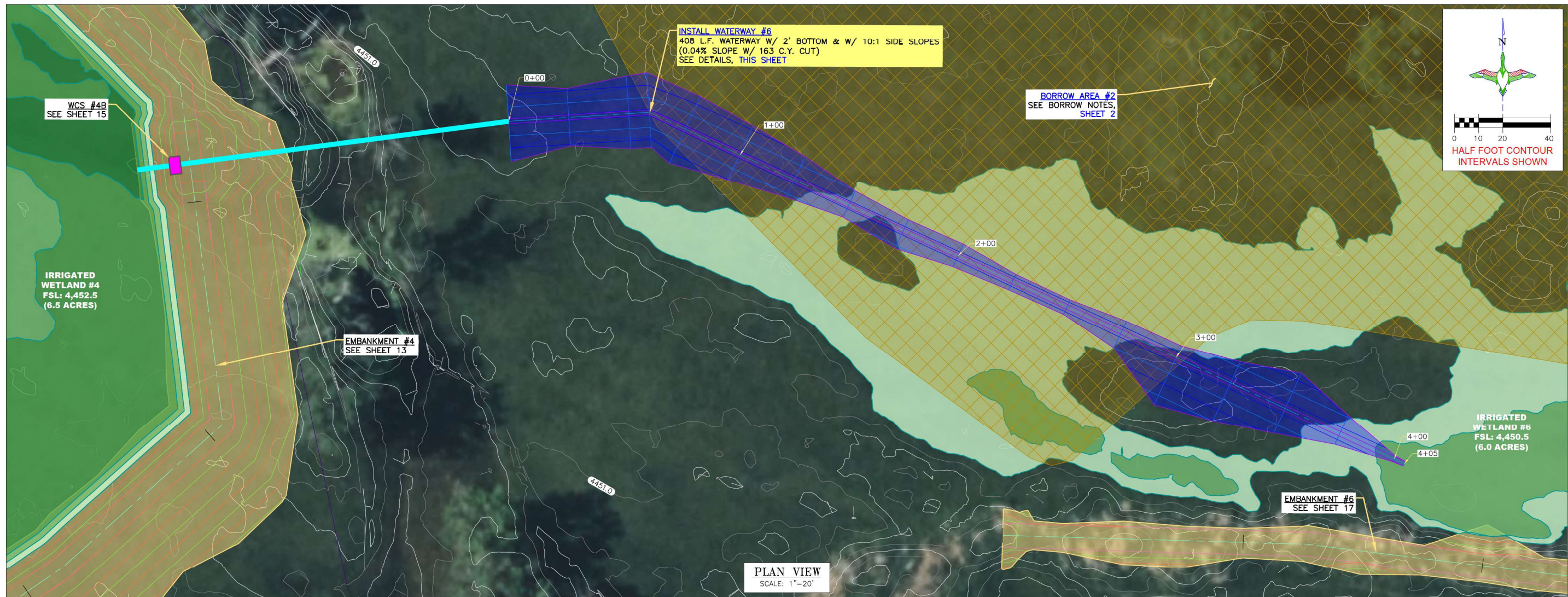
**SHEET TITLE:**  
INSTALL WCS #4B

**SCALES ARE ACCURATE ON**  
24"x36" SHEET SIZE

**DU PROJECT NUMBER:**  
CO-376-101

**SHEET NUMBER:**  
15

**SHEET 15 OF 25**



DUCKS UNLIMITED, INC.  
GREAT PLAINS REGIONAL OFFICE

P.E. SEAL:  

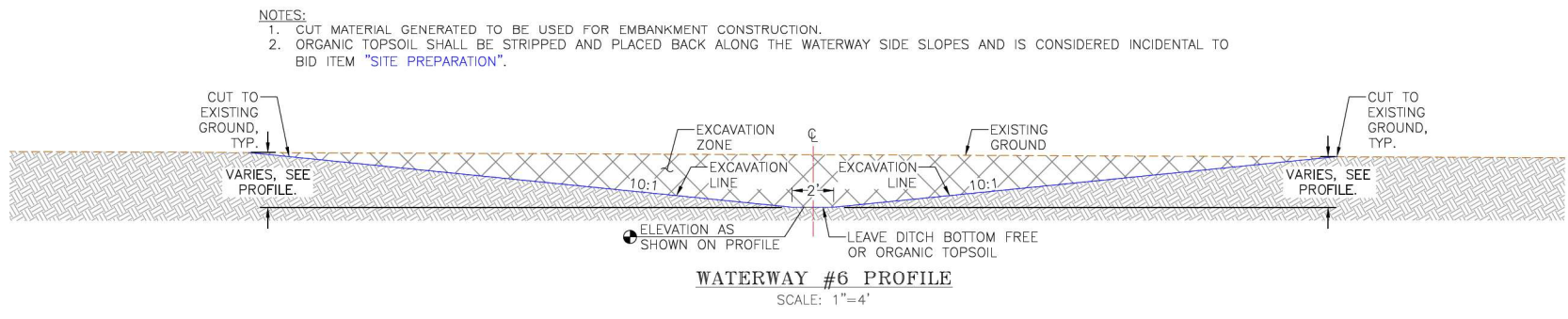
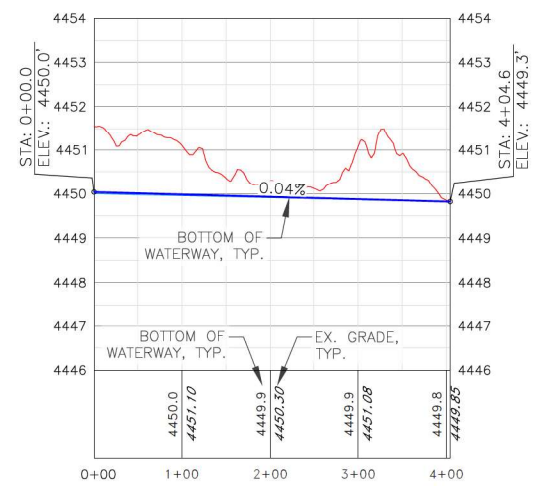
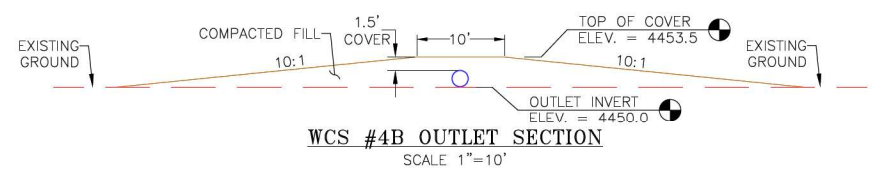
 KEVIN J. WARNER  
 47794  
 PROFESSIONAL ENGINEER  
 COLORADO LICENSED

DESIGNED BY: KJW  
 DRAWN BY: JJW  
 SURVEYED BY: TRP  
 CHECKED BY:  
 APPROVED BY:  
 APPROVED BY:

REVISION:	DATE:	BY:
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**LEGEND**

- PROPERTY BOUNDARY
- IRRIGATED WETLAND FULL SERVICE LEVEL/ WETLAND TOPOGRAPHY
- BORROW LOCATION
- EMBANKMENT CONSTRUCTION
- WATERWAY
- WCS (AGRI-DRAIN)
- EXISTING CONTOURS



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 THOMAS PARKER, P.E.  
 (970) 692-3375

DU DESIGN ENGINEER:  
 KEVIN WARNER, P.E.  
 (970) 590-1545

PROJECT: YOCAM RESTORATION

SHEET TITLE: GRADE WATERWAY #6

DATE: 5/14/2026

SHEET TITLE: GRADE WATERWAY #6

SCALES ARE ACCURATE ON 24"x36" SHEET SIZE

DU PROJECT NUMBER: CO-376-101

SHEET NUMBER: 16  
SHEET 16 OF 25

**LEGEND**

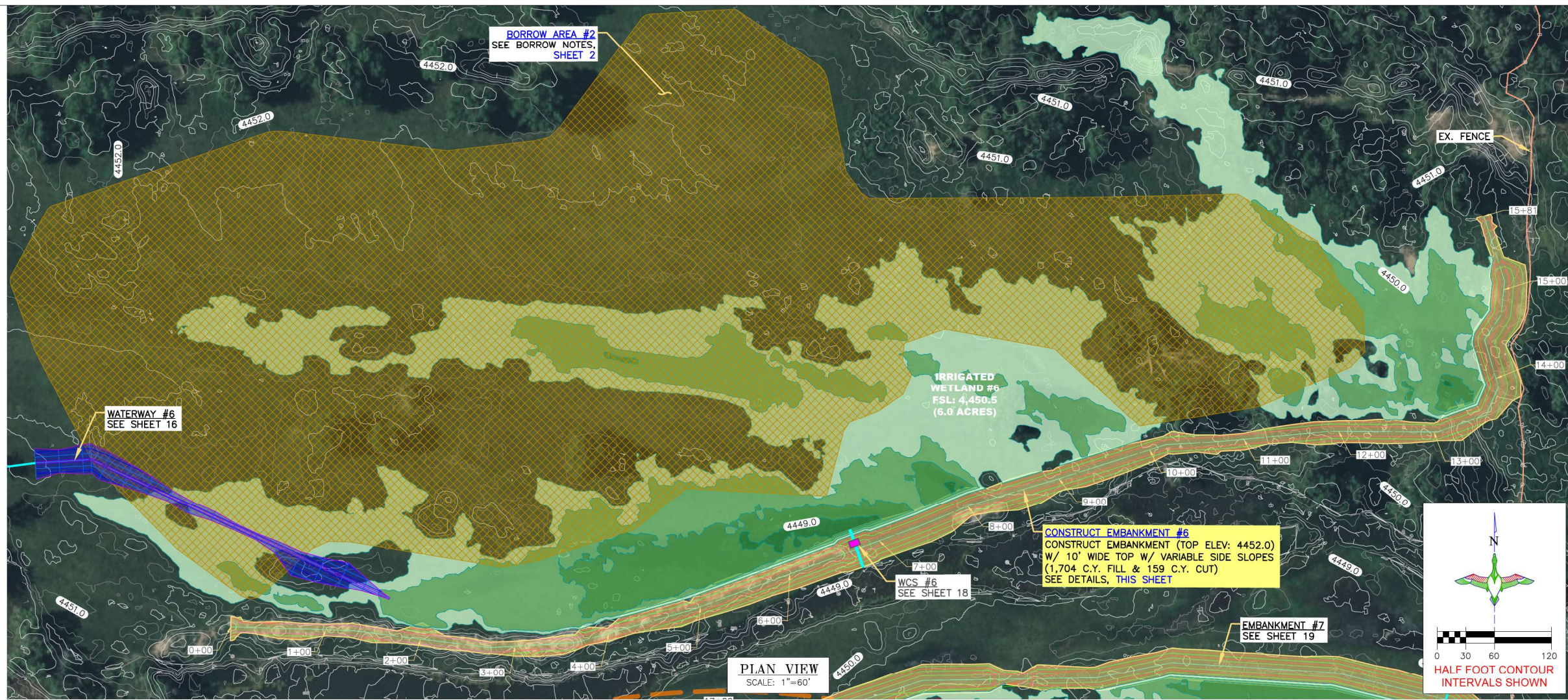
- PROPERTY BOUNDARY
- IRRIGATED WETLAND FULL SERVICE LEVEL/ WETLAND TOPOGRAPHY
- BORROW LOCATION
- EMBANKMENT CONSTRUCTION
- WATERWAY
- WCS (AGRI-DRAIN)
- EXISTING CONTOURS
- EX. FENCE

**EMBANKMENT CONSTRUCTION NOTES:**

1. STRIP 4" TO 6" OF TOPSOIL, STOCKPILE, AND SCARIFY 6" PRIOR TO PLACING COMPACTED FILL. SPREAD TOPSOIL OVER COMPACTED EMBANKMENT. COST OF TOPSOIL WORK SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "SITE PREPARATION".
2. THE EMBANKMENT SUBGRADE MUST BE STABLE, UNIFORMLY GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS, WITH NO ABRUPT GRADE CHANGES.
3. EMBANKMENT CONSTRUCTION SHALL BE FROM COMPACTED EARTHEN MATERIAL CONTAINING MINIMAL ORGANIC MATERIAL AND SHALL COMPLY WITH DU SPECIFICATION SECTION 204 "EMBANKMENT CONSTRUCTION."
4. BORROW AREA SHALL BE DEVELOPED TO UTILIZE CLAYEY FILL FOR ZONE 1 OF THE EMBANKMENT. ANY GRAVELLY OR HEAVY SAND MATERIAL SHALL BE USED FOR ZONE 2 AND ORGANICS & CATTAILS FOR ZONE 3.
5. EMBANKMENT FILL SHALL BE OBTAINED FROM THE SPECIFIED BORROW AREA. FILL SHALL BE PLACED IN LIFTS OF NO MORE THAN 8" AND COMPACTED PRIOR TO PLACING SUBSEQUENT LIFTS.

BORROW NOTES:  
SEE SHEET 2

SEEDING NOTES:  
SEE SHEET 2

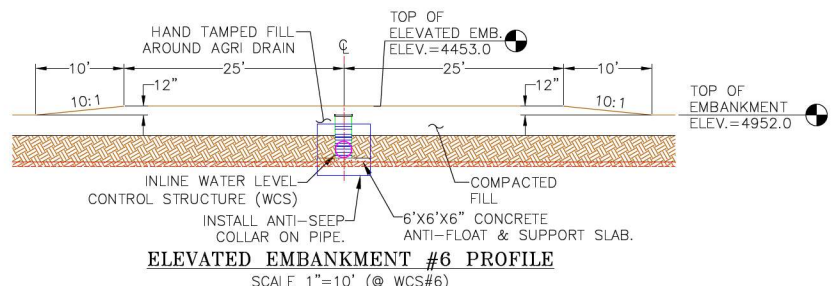
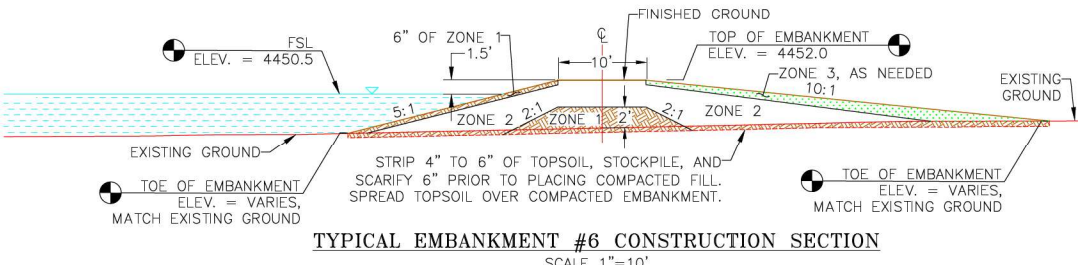
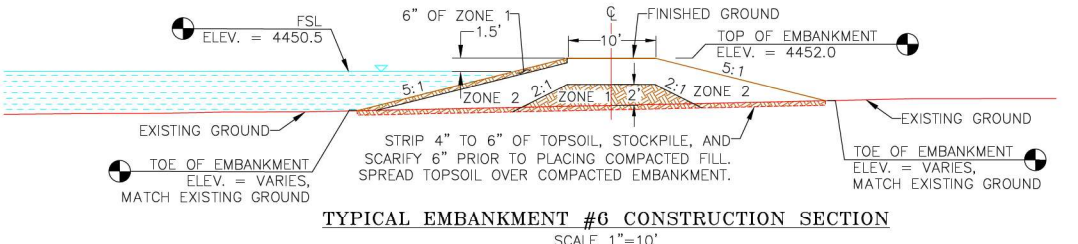
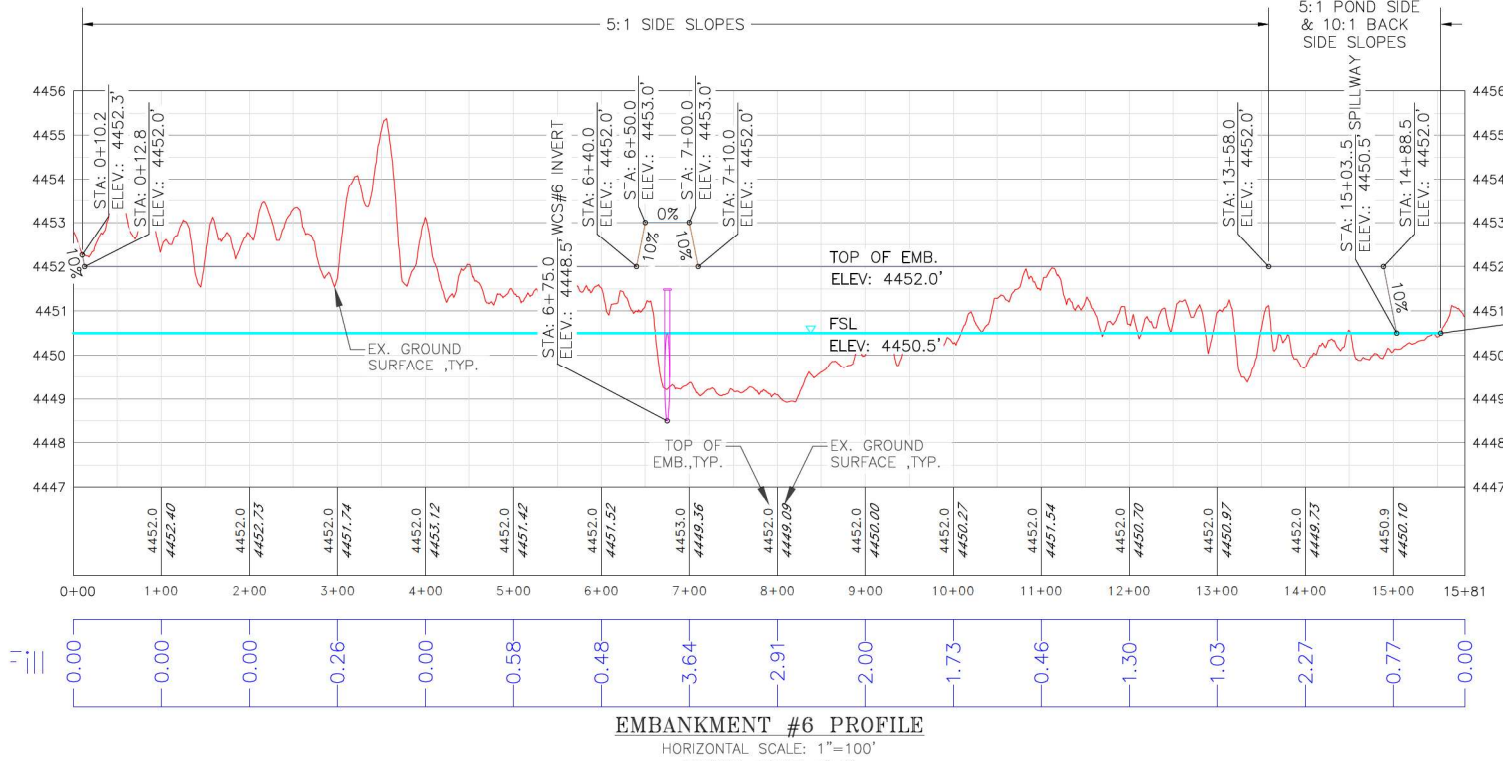
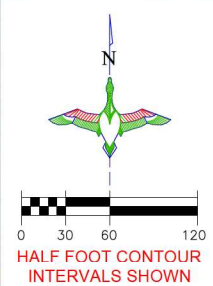


**DUCKS UNLIMITED INC.**  
GREAT PLAINS REGIONAL OFFICE

P.E. SEAL:

DESIGNED BY: KJW  
 DRAWN BY: JJW  
 SURVEYED BY: TRP  
 CHECKED BY:  
 APPROVED BY:  
 APPROVED BY:

REVISION:	DATE:	BY:
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DU CONSTRUCTION ENGINEER:  
 THOMAS PARKER, P.E.  
 (970) 692-3375

DU DESIGN ENGINEER:  
 KEVIN WARNER, P.E.  
 (970) 590-1545

PROJECT:  
**YOCAM RESTORATION**

SHEET TITLE:  
**CONSTRUCT EMBANKMENT #6**

DATES: 5/14/2026

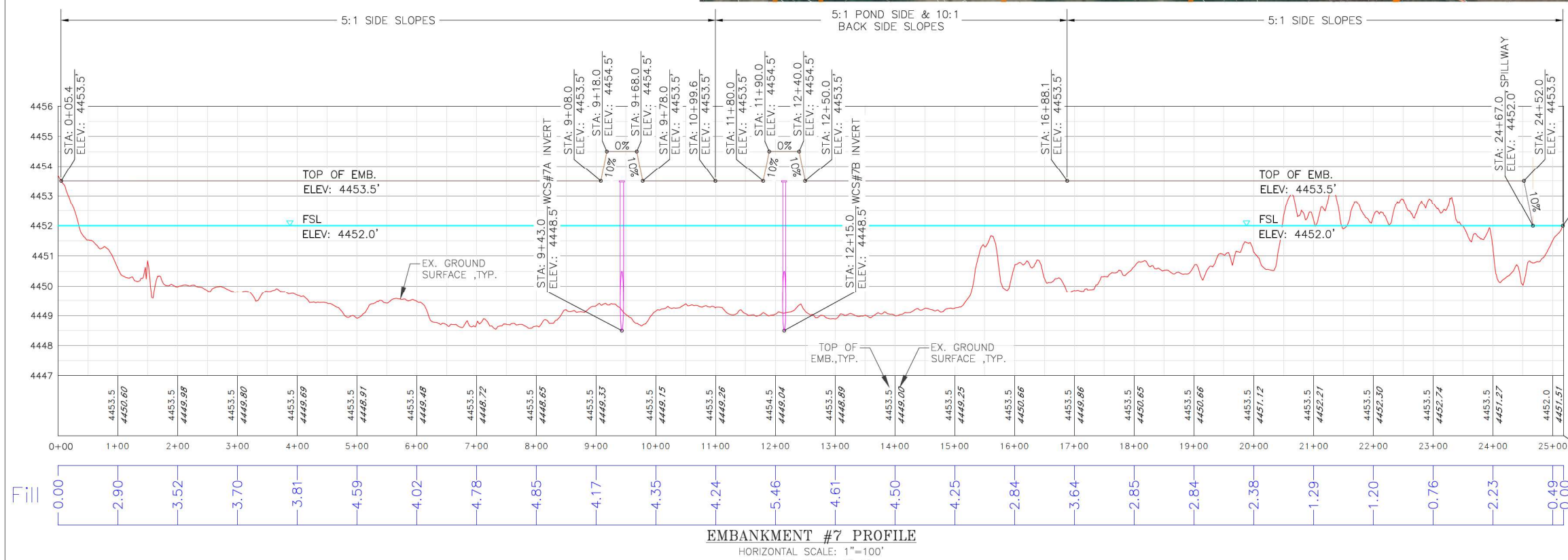
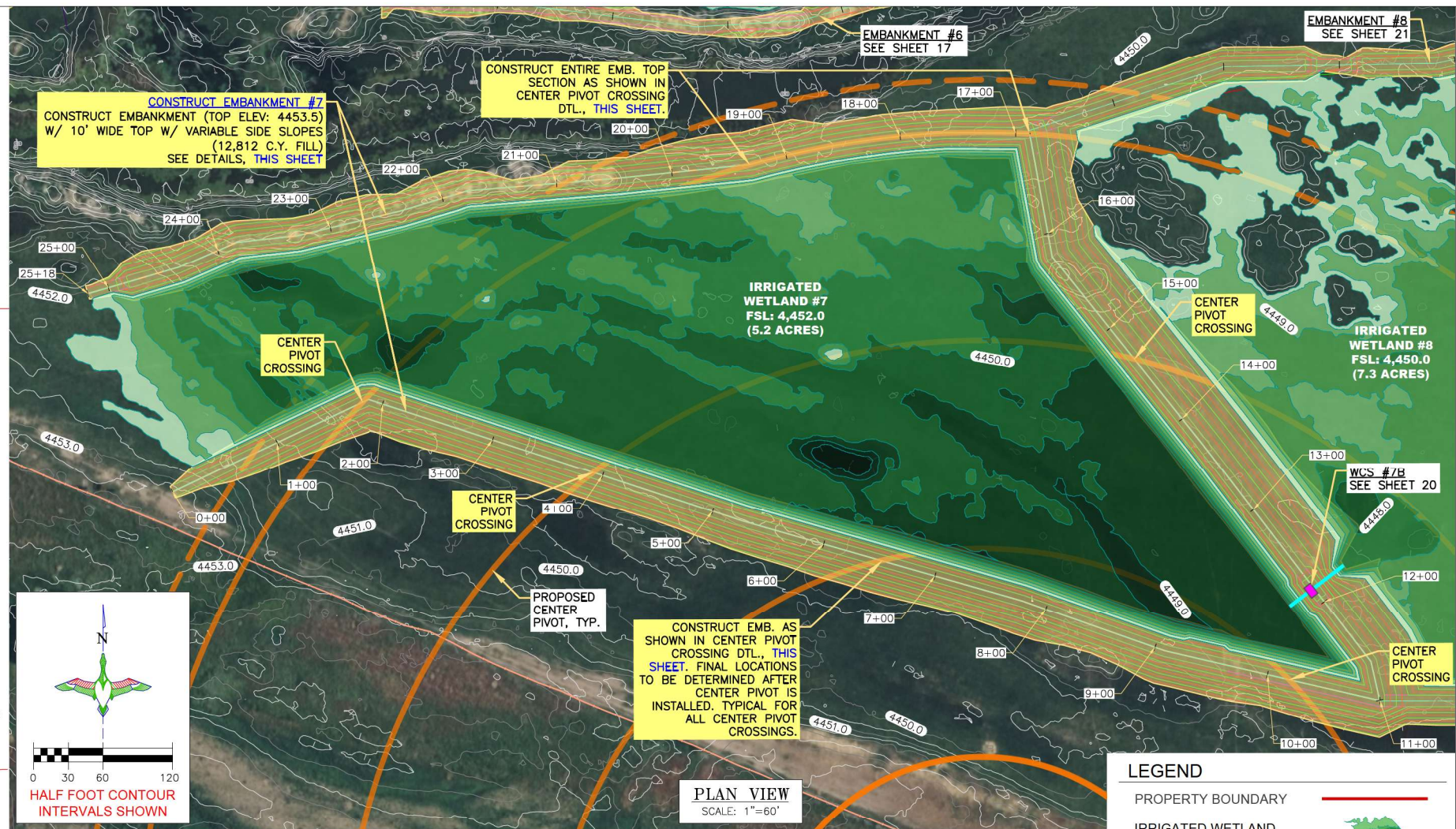
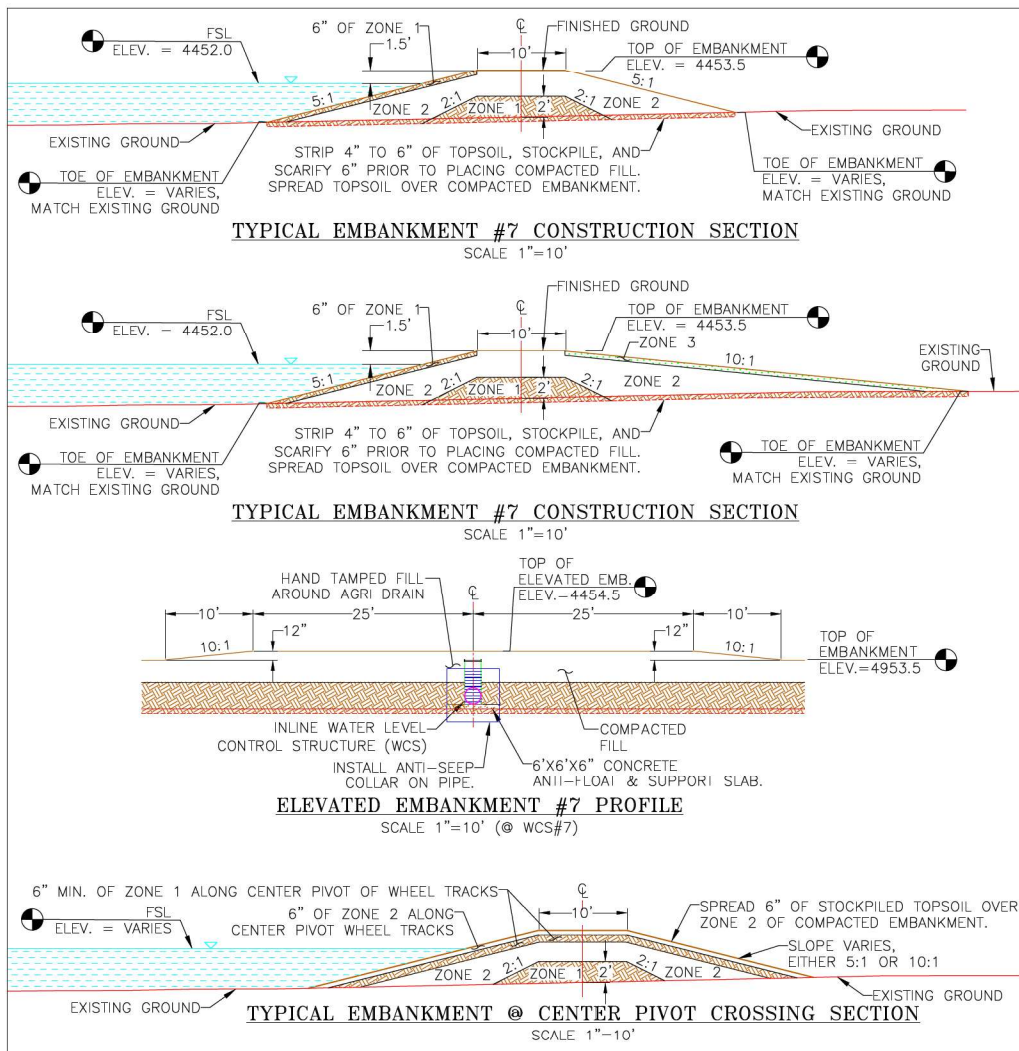
SHEET TITLE: CONSTRUCT EMBANKMENT #6

DU PROJECT NUMBER: CO-376-101

SHEET NUMBER: 17

SHEET 17 OF 25





**LEGEND**

- PROPERTY BOUNDARY
- IRRIGATED WETLAND FULL SERVICE LEVEL/ WETLAND TOPOGRAPHY
- BORROW LOCATION
- EMBANKMENT CONSTRUCTION
- WATERWAY
- WCS (AGRI-DRAIN)
- EXISTING CONTOURS
- PROPOSED CENTER PIVOT

- EMBANKMENT CONSTRUCTION NOTES:**
- STRIP 4" TO 6" OF TOPSOIL, STOCKPILE, AND SCARIFY 6" PRIOR TO PLACING COMPACTED FILL. SPREAD TOPSOIL OVER COMPACTED EMBANKMENT. COST OF TOPSOIL WORK SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "SITE PREPARATION".
  - THE EMBANKMENT SUBGRADE MUST BE STABLE, UNIFORMLY GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS, WITH NO ABRUPT GRADE CHANGES.
  - EMBANKMENT CONSTRUCTION SHALL BE FROM COMPACTED EARTHEN MATERIAL CONTAINING MINIMAL ORGANIC MATERIAL AND SHALL COMPLY WITH DU SPECIFICATION SECTION 204 "EMBANKMENT CONSTRUCTION."
  - BORROW AREA SHALL BE DEVELOPED TO UTILIZE CLAYEY FILL FOR ZONE 1 OF THE EMBANKMENT. ANY GRAVELLY OR HEAVY SAND MATERIAL SHALL BE USED FOR ZONE 2 AND ORGANICS & CATTAILS FOR ZONE 3.
  - EMBANKMENT FILL SHALL BE OBTAINED FROM THE SPECIFIED BORROW AREA. FILL SHALL BE PLACED IN LIFTS OF NO MORE THAN 8" AND COMPACTED PRIOR TO PLACING SUBSEQUENT LIFTS.
- BORROW NOTES:**  
SEE SHEET 2
- SEEDING NOTES:**  
SEE SHEET 2

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(970) 692-3375

**DU DESIGN ENGINEER:**  
KEVIN WARNER, P.E.  
(970) 590-1545

**DUCKS UNLIMITED INC.**  
GREAT PLAINS REGIONAL OFFICE  
P.E. SEAL:  
COLORADO LICENSED PROFESSIONAL ENGINEER  
KEY: W. J. WARNER  
47794

DESIGNED BY: KJW  
DRAWN BY: JJW  
SURVEYED BY: TRP  
CHECKED BY:  
APPROVED BY:  
APPROVED BY:

REVISION:

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**PROJECT:**  
YOCAM RESTORATION

**SHEET TITLE:**  
CONSTRUCT EMBANKMENT #7

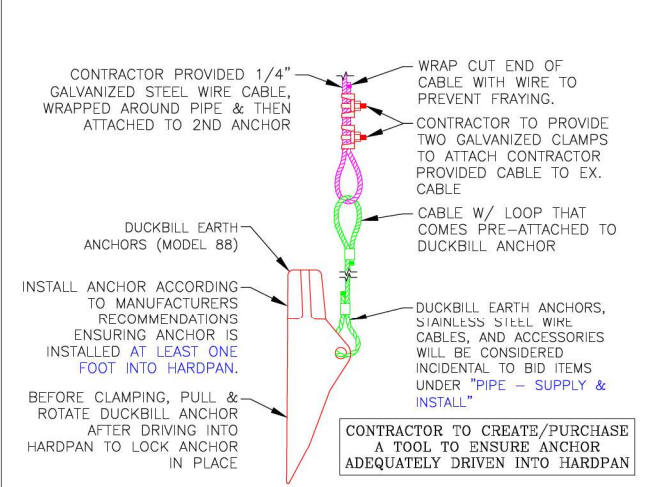
**DATES:**  
5/14/2026

**SHEET TITLE:**  
CONSTRUCT EMBANKMENT #7

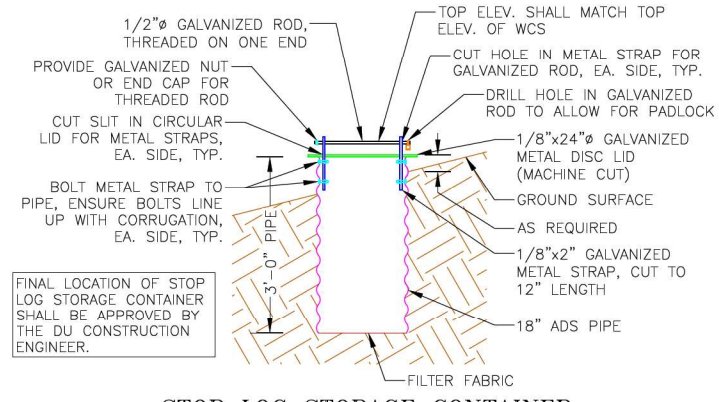
**DU PROJECT NUMBER:**  
CO-376-101

**SHEET NUMBER:**  
19

SHEET 19 OF 25

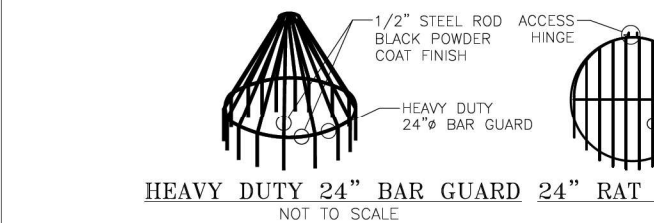


**DUCKBILL EARTH ANCHOR (MODEL 88) DETAIL**  
NOT TO SCALE



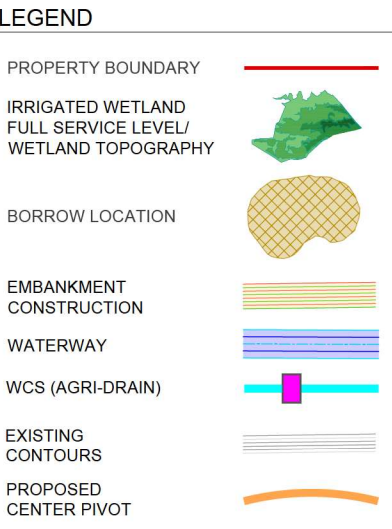
**STOP LOG STORAGE CONTAINER**  
NOT TO SCALE

- STOP LOG STORAGE CONTAINER NOTES:**
1. THE STOP LOG STORAGE CONTAINER AND ITS INSTALLATION WILL BE CONSIDERED PART OF BID ITEM UNDER "WATER CONTROL STRUCTURE - STOP LOG STORAGE CONTAINER".
  2. STOP LOG STORAGE CONTAINER SHALL BE LOCATED ON THE WETLAND SIDESLOPE OF THE EMBANKMENT, FOUR FT. FROM THE EDGE OF EMB. TOP. PROVIDE TWO COATS OF A COLD GALVANIZING COMPOUND SPRAY, MANUFACTURED BY RUST-OLEUM, OR APPROVED EQUAL, ON ALL METAL PARTS OF THE STOP LOG STORAGE CONTAINER.

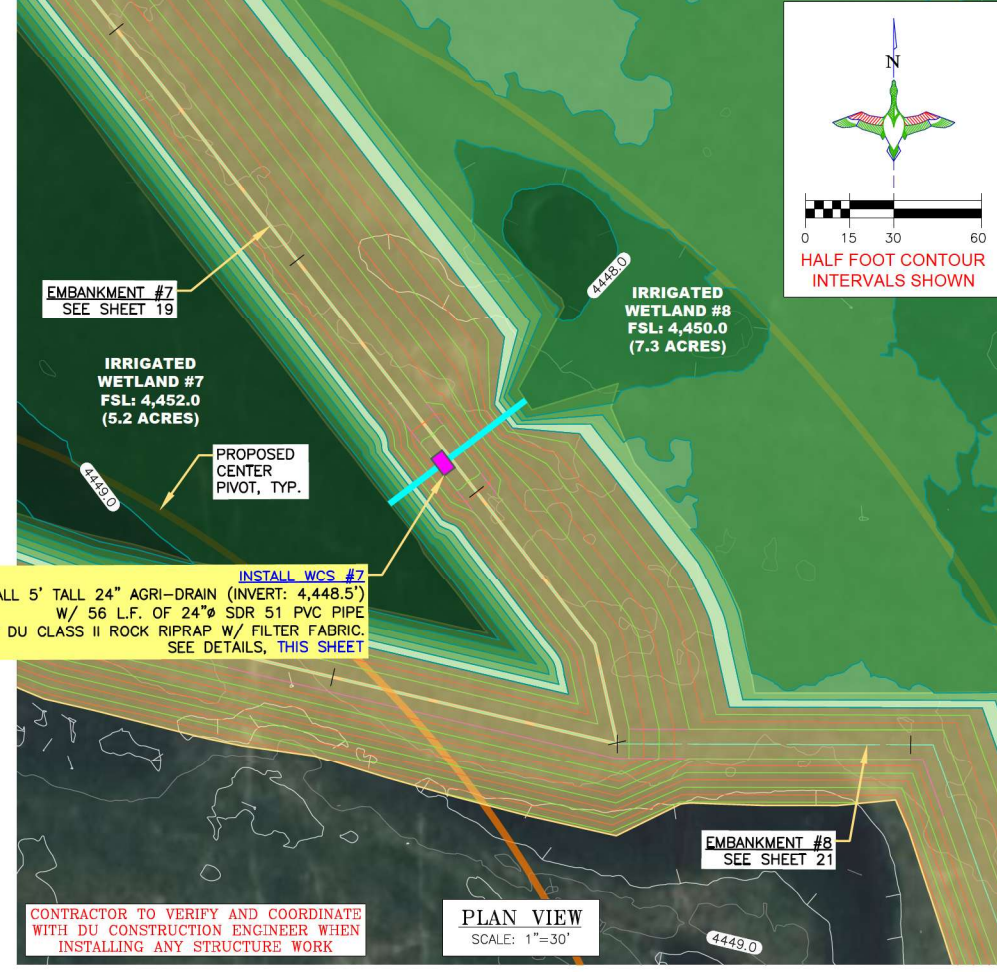


**HEAVY DUTY 24" BAR GUARD 24" RAT GUARD, BAND-TYPE**  
NOT TO SCALE

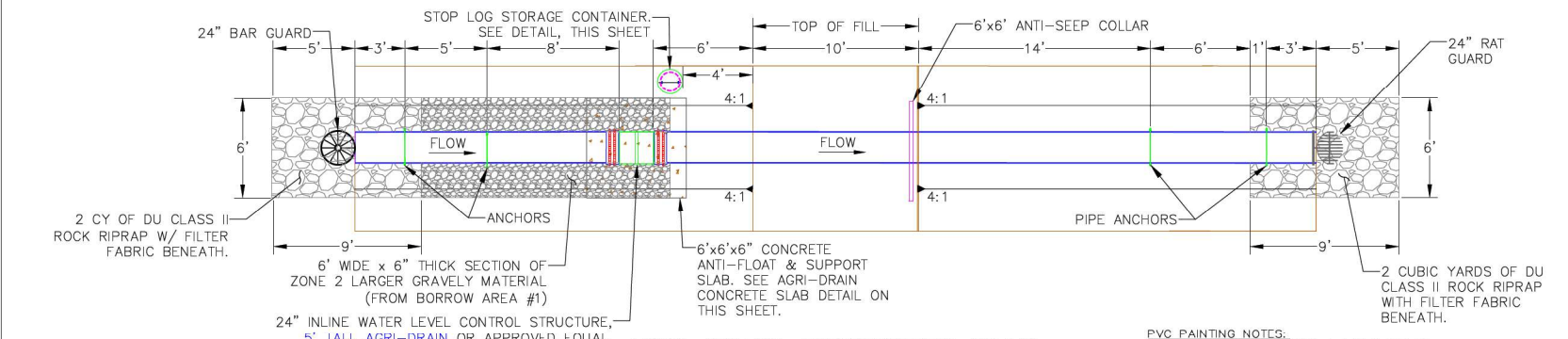
- BAR GUARD/RAT GUARD INSTALLATION NOTES:**
1. THE BAR GUARD/RAT GUARD OR APPROVED EQUAL AND ITS INSTALLATION WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  2. BAR GUARD TO BE INSTALLED ON THE UPSTREAM LOCATION OF THE WCS.
  3. RAT GUARD TO BE INSTALLED ON THE DOWNSTREAM LOCATION OF THE WCS.
  4. AGRI DRAIN CORP. TELEPHONE NUMBER IS 1-800-232-4742.



**LEGEND**

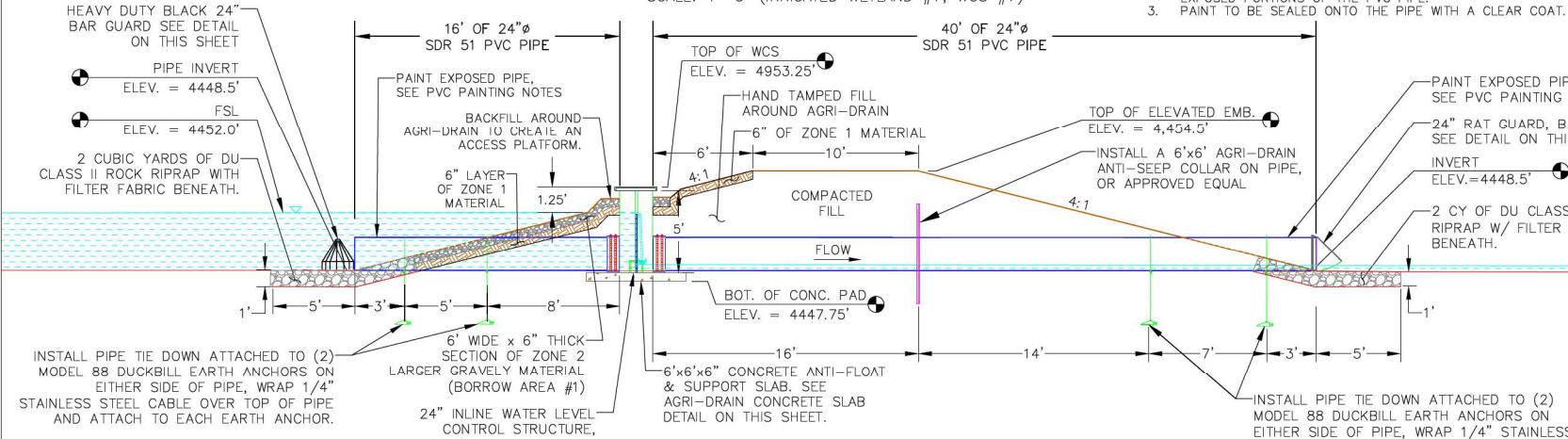


**PLAN VIEW**  
SCALE: 1"=30'

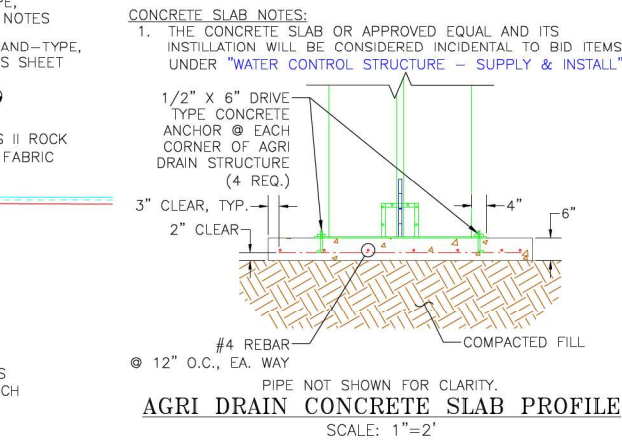


**AGRI-DRAIN STRUCTURE PLAN**  
SCALE: 1"=5' (IRRIGATED WETLAND #7, WCS #7)

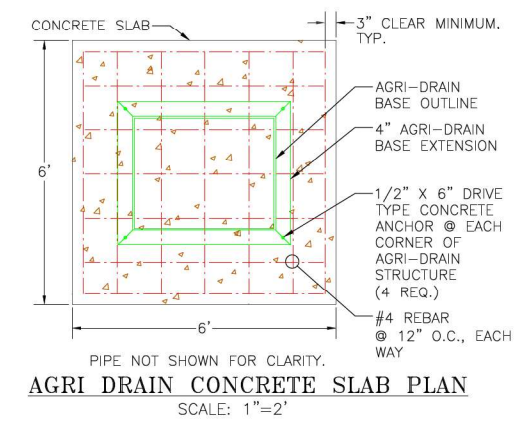
- AGRI DRAIN STRUCTURE INSTALLATION NOTES:**
1. STRUCTURE, CONCRETE BASE, INLET AND OUTLET PIPE SHALL BE PLACED ON A LEVEL SURFACE OF COMPACTED SOIL.
  2. LEVEL STRUCTURE VERTICALLY PRIOR TO PLACING BACKFILL. BACKFILL AROUND STRUCTURE BY HAND IN 6" LIFTS. HAND TAMP ONLY.
  3. COST OF STRUCTURE INSTALLATION SHALL BE PAID AS BID ITEM "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  4. ANTI-SEEP COLLARS WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  5. AGRI DRAIN PVC STOP LOGS SHALL BE WATERTIGHT AND PROVIDED BY SUPPLIER.
  6. STOP LOGS WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  7. DUCKBILL EARTH ANCHORS, STAINLESS STEEL WIRE CABLES, AND ACCESSORIES WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  8. AGRI DRAIN CORP. TELEPHONE NUMBER IS 1-800-232-4742 SPECIFY SIZE AND TYPE OF PIPE WHEN ORDERING. ORDER BASE EXTENSION TO ALLOW ANCHORING OF AGRI DRAIN TO CONCRETE SLAB.
  9. STOP LOG STORAGE CONTAINER AND ALL ASSOCIATED MATERIALS, EXCEPT THE PIPE, WILL BE CONSIDERED PART OF BID ITEM "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".



**AGRI-DRAIN STRUCTURE PROFILE**  
SCALE: 1"=5' (IRRIGATED WETLAND #7, WCS #7)



**AGRI DRAIN CONCRETE SLAB PROFILE**  
SCALE: 1"=2'



**AGRI DRAIN CONCRETE SLAB PLAN**  
SCALE: 1"=2'

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**DU DESIGN ENGINEER:**  
KEVIN WARNER, P.E.  
(970) 590-1545



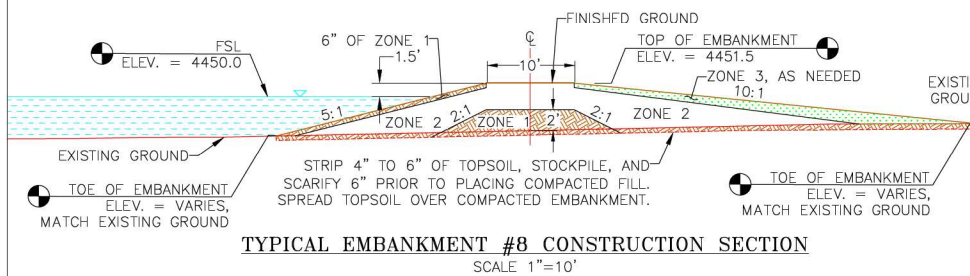
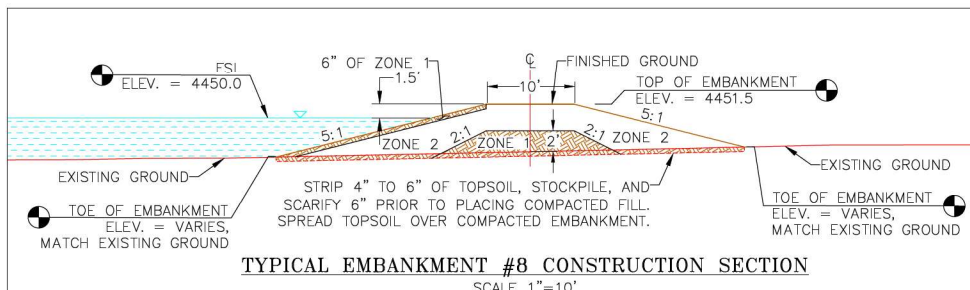
DESIGNED BY: KJW  
DRAWN BY: JJW  
SURVEYED BY: TRP  
CHECKED BY:  
APPROVED BY:  
APPROVED BY:

REVISION:	BY:	DATE:
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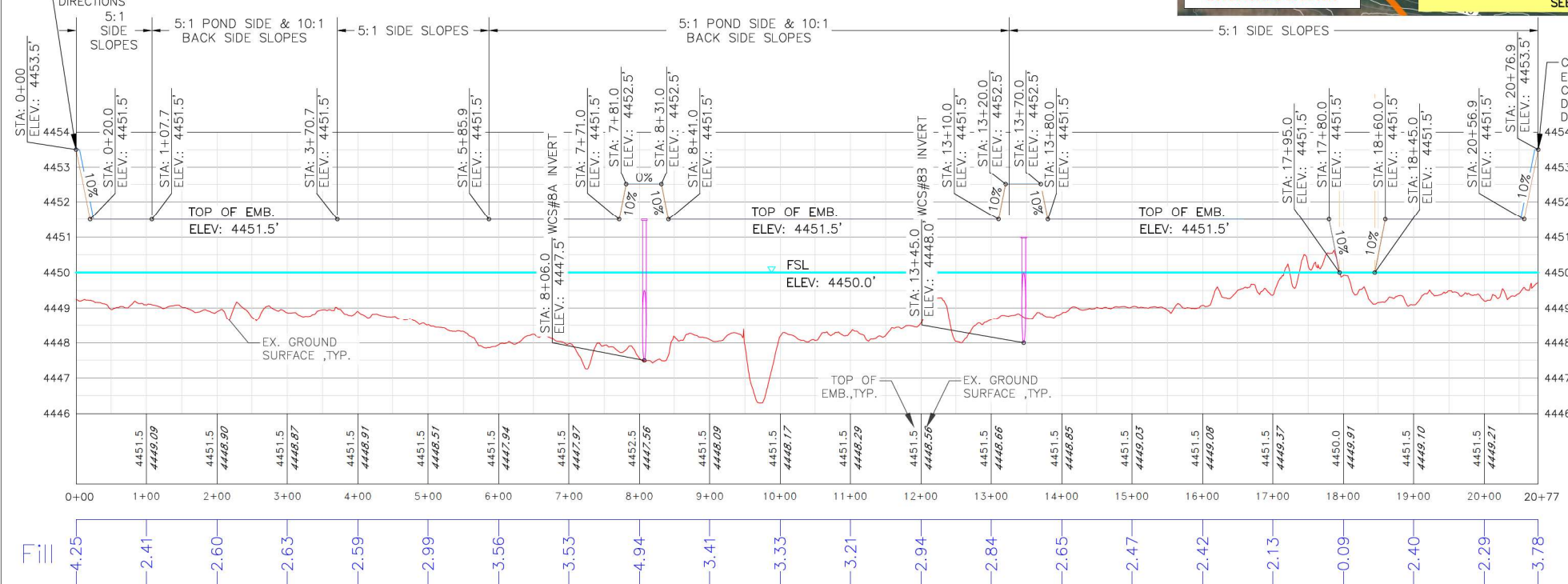
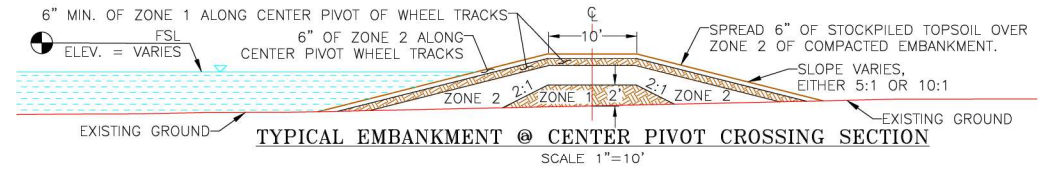
**PROJECT:** YOCAM RESTORATION  
**SHEET TITLE:** INSTALL WCS #7

**DATES:** 5/14/2026  
**SHEET TITLE:** INSTALL WCS #7

**DU PROJECT NUMBER:** CO-376-101  
**SHEET NUMBER:** 20  
SHEET 20 OF 25

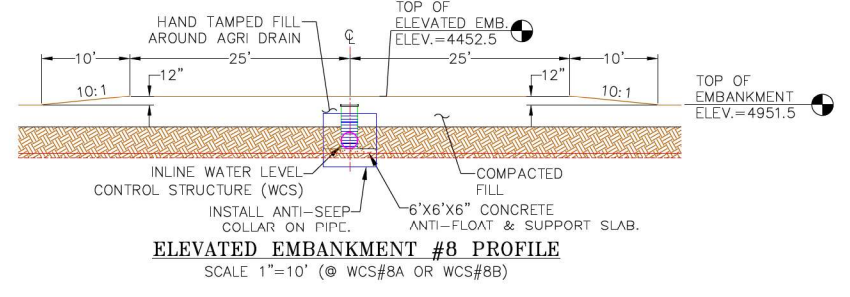
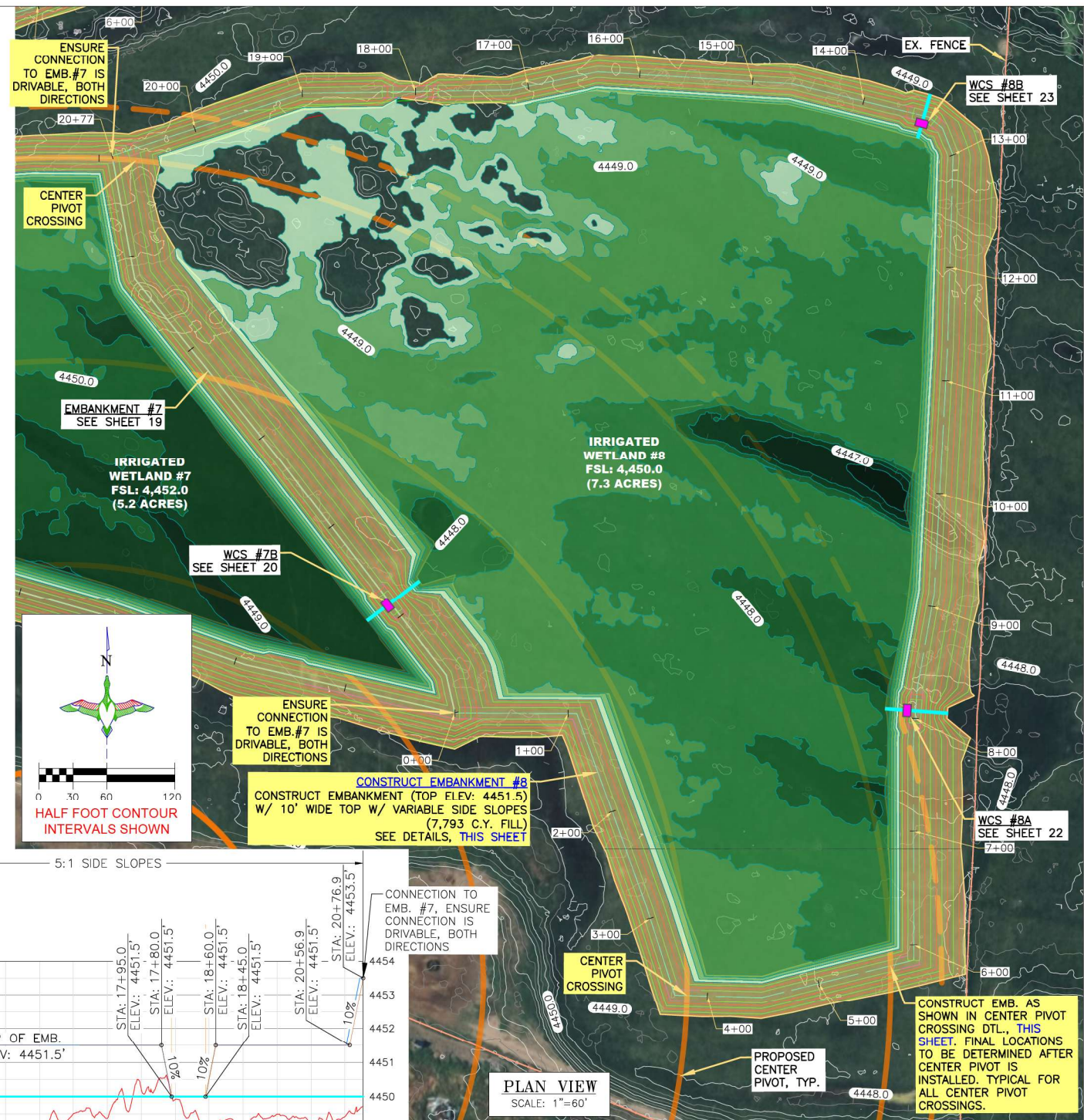


- EMBANKMENT CONSTRUCTION NOTES:**
- STRIP 4" TO 6" OF TOPSOIL, STOCKPILE, AND SCARIFY 6" PRIOR TO PLACING COMPACTED FILL. SPREAD TOPSOIL OVER COMPACTED EMBANKMENT. COST OF TOPSOIL WORK SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "SITE PREPARATION".
  - THE EMBANKMENT SUBGRADE MUST BE STABLE, UNIFORMLY GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS, WITH NO ABRUPT GRADE CHANGES.
  - EMBANKMENT CONSTRUCTION SHALL BE FROM COMPACTED EARTHEN MATERIAL CONTAINING MINIMAL ORGANIC MATERIAL AND SHALL COMPLY WITH DU SPECIFICATION SECTION 204 "EMBANKMENT CONSTRUCTION."
  - BORROW AREA SHALL BE DEVELOPED TO UTILIZE CLAYEY FILL FOR ZONE 1 OF THE EMBANKMENT. ANY GRAVELLY OR HEAVY SAND MATERIAL SHALL BE USED FOR ZONE 2 AND ORGANICS & CATTAILS FOR ZONE 3.
  - EMBANKMENT FILL SHALL BE OBTAINED FROM THE SPECIFIED BORROW AREA. FILL SHALL BE PLACED IN LIFTS OF NO MORE THAN 8" AND COMPACTED PRIOR TO PLACING SUBSEQUENT LIFTS.
- BORROW NOTES:**  
SEE SHEET 2
- SEEDING NOTES:**  
SEE SHEET 2



**EMBANKMENT #8 PROFILE**  
HORIZONTAL SCALE: 1"=100'  
VERTICAL SCALE: 1"=2'

- LEGEND**
- PROPERTY BOUNDARY
  - IRRIGATED WETLAND FULL SERVICE LEVEL/ WETLAND TOPOGRAPHY
  - BORROW LOCATION
  - EMBANKMENT CONSTRUCTION
  - WATERWAY
  - WCS (AGRI-DRAIN)
  - EXISTING CONTOURS
  - PROPOSED CENTER PIVOT
  - EX. FENCE



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**DU CONSTRUCTION ENGINEER:**  
THOMAS PARKER, P.E.  
(970) 692-3375

**DU DESIGN ENGINEER:**  
KEVIN WARNER, P.E.  
(970) 590-1545

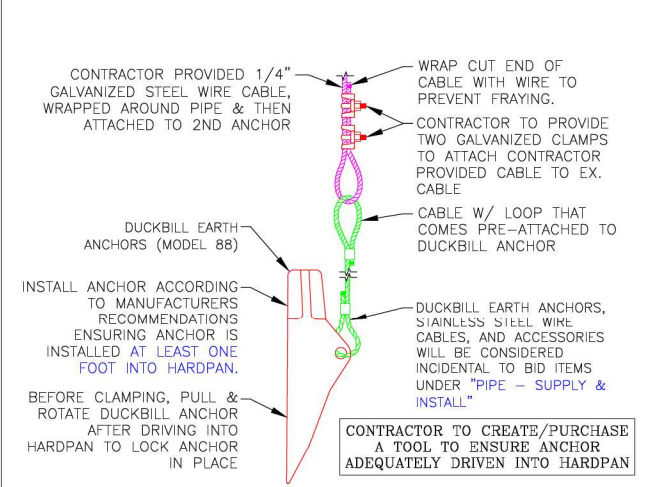


DESIGNED BY: KJW  
DRAWN BY: JJW  
SURVEYED BY: TRP  
CHECKED BY:  
APPROVED BY:  
APPROVED BY:

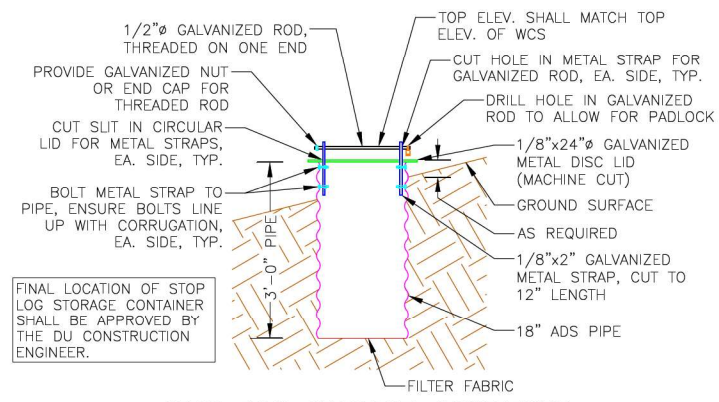
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PROJECT: YOCAM RESTORATION  
SHEET TITLE: CONSTRUCT EMBANKMENT #8

DATE: 5/14/2026  
SHEET TITLE: CONSTRUCT EMBANKMENT #8  
DU PROJECT NUMBER: CO-376-101  
SHEET NUMBER: 21  
SHEET 21 OF 25

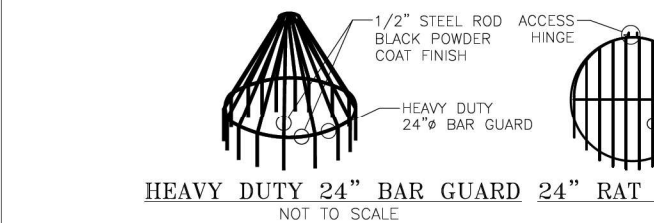


**DUCKBILL EARTH ANCHOR (MODEL 88) DETAIL**  
NOT TO SCALE



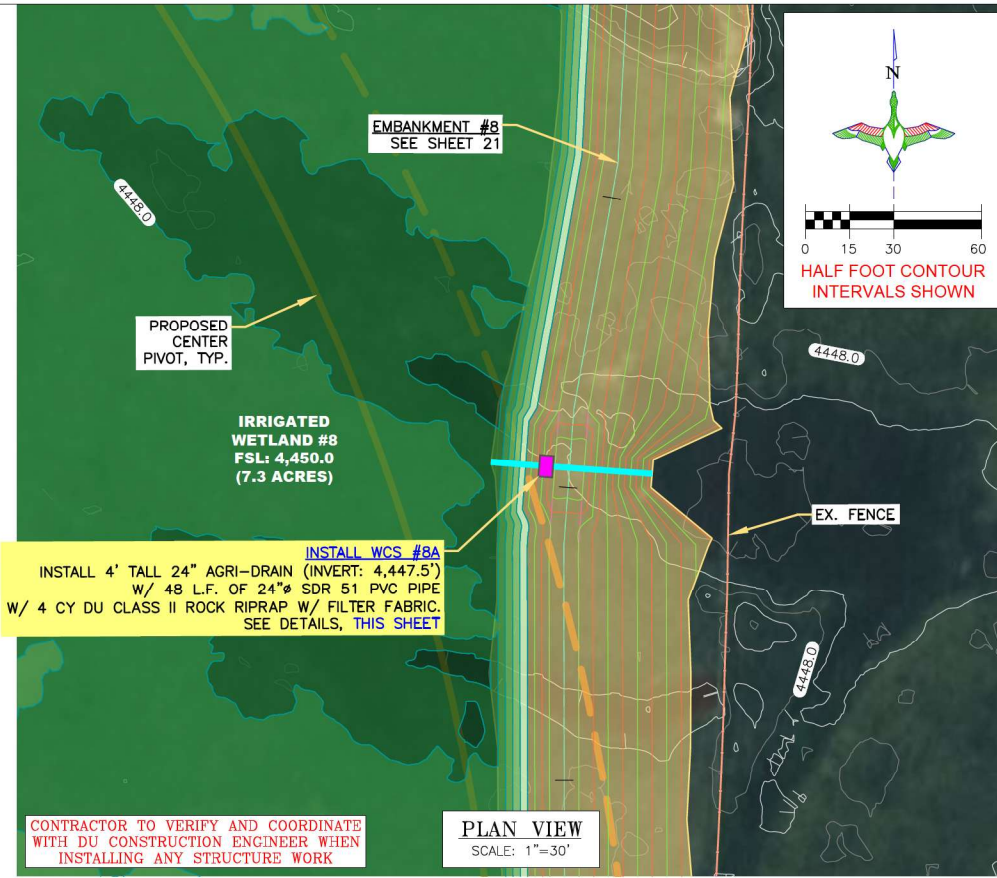
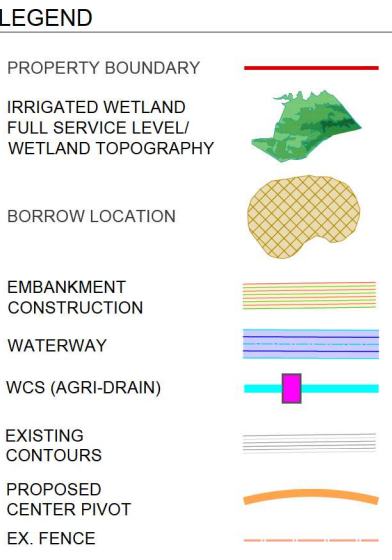
**STOP LOG STORAGE CONTAINER**  
NOT TO SCALE

- STOP LOG STORAGE CONTAINER NOTES:**
1. THE STOP LOG STORAGE CONTAINER AND ITS INSTALLATION WILL BE CONSIDERED PART OF BID ITEM UNDER "WATER CONTROL STRUCTURE - STOP LOG STORAGE CONTAINER".
  2. STOP LOG STORAGE CONTAINER SHALL BE LOCATED ON THE WETLAND SIDESLOPE OF THE EMBANKMENT, FOUR FT. FROM THE EDGE OF EMB. TOP.
  3. PROVIDE TWO COATS OF A COLD GALVANIZING COMPOUND SPRAY, MANUFACTURED BY RUST-OLEUM, OR APPROVED EQUAL, ON ALL METAL PARTS OF THE STOP LOG STORAGE CONTAINER.



**HEAVY DUTY 24" BAR GUARD 24" RAT GUARD, BAND-TYPE**  
NOT TO SCALE

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  2. BAR GUARD TO BE INSTALLED ON THE UPSTREAM LOCATION OF THE WCS.
  3. RAT GUARD TO BE INSTALLED ON THE DOWNSTREAM LOCATION OF THE WCS.
  4. AGRI DRAIN CORP. TELEPHONE NUMBER IS 1-800-232-4742.



CONTRACTOR TO VERIFY AND COORDINATE WITH DU CONSTRUCTION ENGINEER WHEN INSTALLING ANY STRUCTURE WORK

**PLAN VIEW**  
SCALE: 1"=30'

**DUCKS UNLIMITED INC.**  
GREAT PLAINS REGIONAL OFFICE  
P.E. SEAL: KEVIN J. WARNER, LICENSED PROFESSIONAL ENGINEER, NO. 47794, COLORADO

DESIGNED BY: KJW  
DRAWN BY: JJW  
SURVEYED BY: TRP  
CHECKED BY:  
APPROVED BY:  
APPROVED BY:

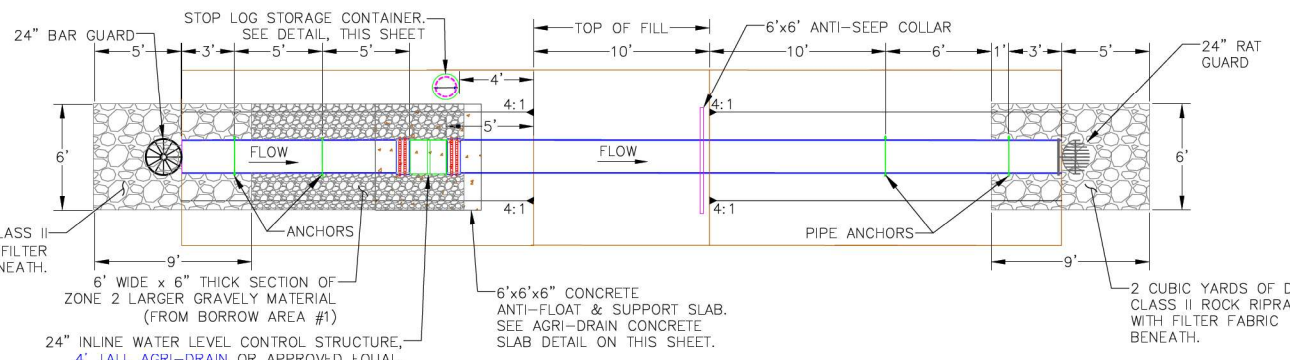
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**YOCAM RESTORATION**  
INSTALL WCS #8A

PROJECT: YOCAM RESTORATION  
SHEET TITLE: INSTALL WCS #8A

DATE: 5/14/2026  
SHEET TITLE: INSTALL WCS #8A

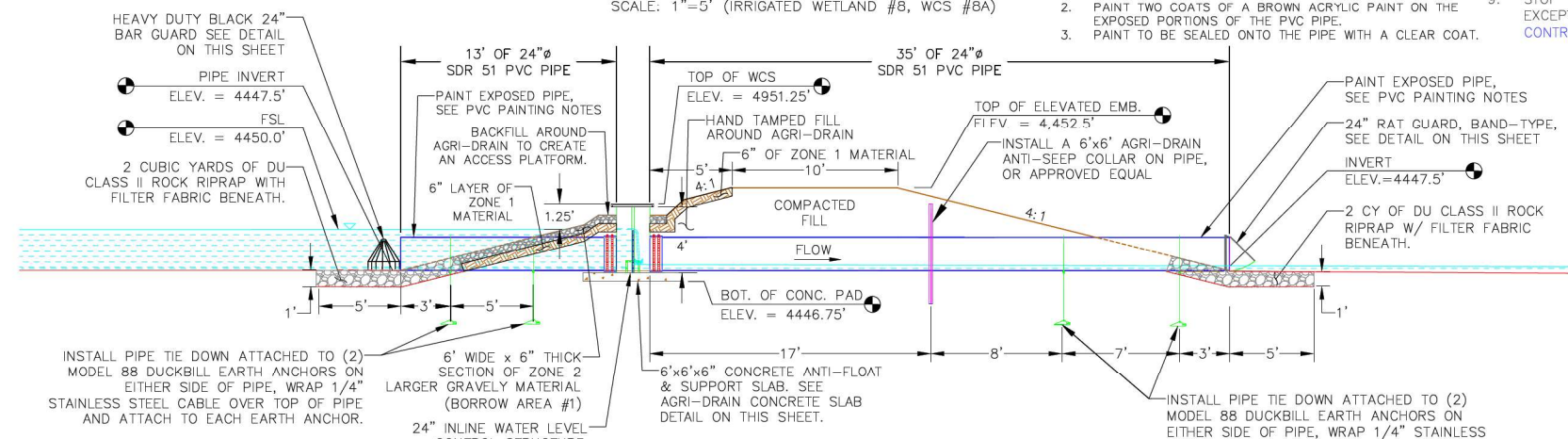
DU PROJECT NUMBER: CO-376-101  
SHEET NUMBER: 22  
SHEET 22 OF 25



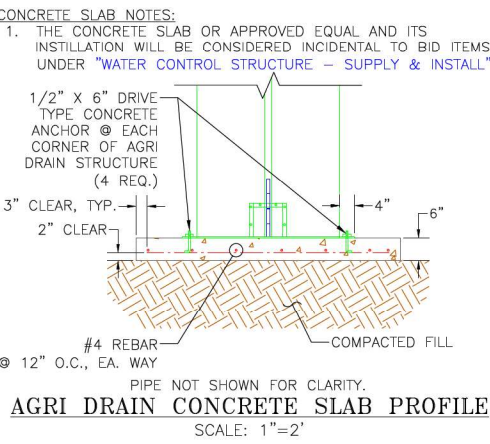
**AGRI-DRAIN STRUCTURE PLAN**  
SCALE: 1"=5' (IRRIGATED WETLAND #8, WCS #8A)

- AGRI DRAIN STRUCTURE INSTALLATION NOTES:**
1. STRUCTURE, CONCRETE BASE, INLET AND OUTLET PIPE SHALL BE PLACED ON A LEVEL SURFACE OF COMPACTED SOIL.
  2. LEVEL STRUCTURE VERTICALLY PRIOR TO PLACING BACKFILL. BACKFILL AROUND STRUCTURE BY HAND IN 6" LIFTS. HAND TAMP ONLY.
  3. COST OF STRUCTURE INSTALLATION SHALL BE PAID AS BID ITEM "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
  4. ANTI-SEEP COLLARS WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
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  6. STOP LOGS WILL BE CONSIDERED INCIDENTAL TO BID ITEMS UNDER "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".
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  8. AGRI DRAIN CORP. TELEPHONE NUMBER IS 1-800-232-4742 SPECIFY SIZE AND TYPE OF PIPE WHEN ORDERING. ORDER BASE EXTENSION TO ALLOW ANCHORING OF AGRI DRAIN TO CONCRETE SLAB.
  9. STOP LOG STORAGE CONTAINER AND ALL ASSOCIATED MATERIALS, EXCEPT THE PIPE, WILL BE CONSIDERED PART OF BID ITEM "WATER CONTROL STRUCTURE - SUPPLY & INSTALL".

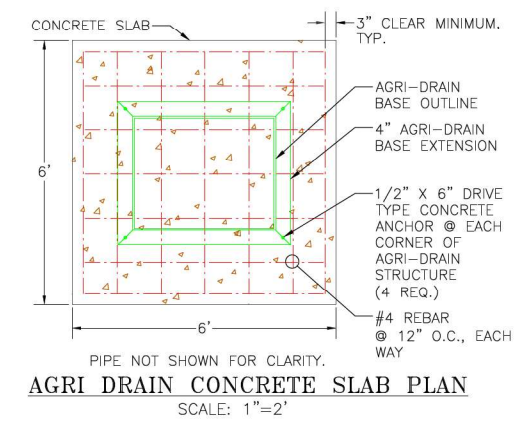
- PVC PAINTING NOTES:**
1. PRIME THE PIPE WITH A LATEX PRIMER.
  2. PAINT TWO COATS OF A BROWN ACRYLIC PAINT ON THE EXPOSED PORTIONS OF THE PVC PIPE.
  3. PAINT TO BE SEALED ONTO THE PIPE WITH A CLEAR COAT.



**AGRI-DRAIN STRUCTURE PROFILE**  
SCALE: 1"=5' (IRRIGATED WETLAND #8, WCS #8A)



**AGRI DRAIN CONCRETE SLAB PROFILE**  
SCALE: 1"=2'



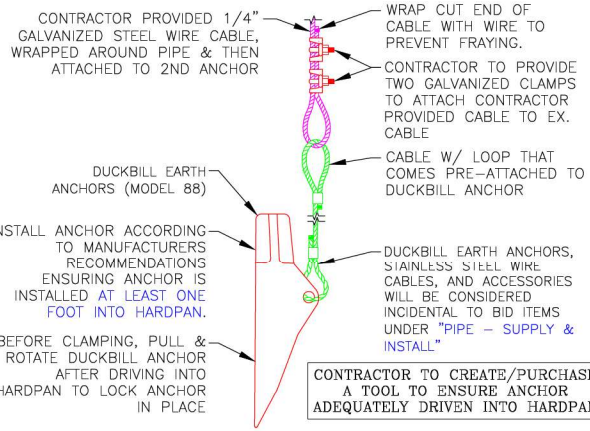
**AGRI DRAIN CONCRETE SLAB PLAN**  
SCALE: 1"=2'

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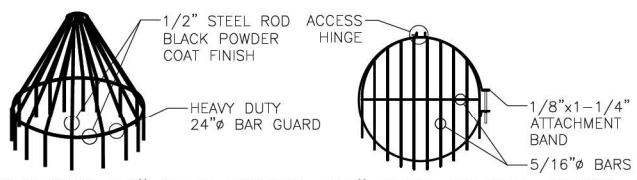
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**DU CONSTRUCTION ENGINEER:**  
THOMAS PARKER, P.E.  
(970) 692-3375

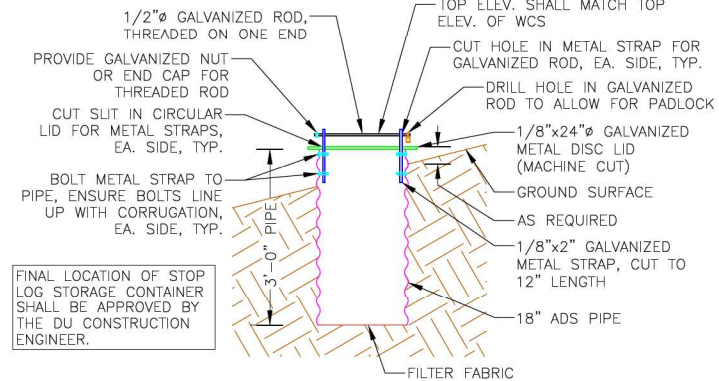
**DU DESIGN ENGINEER:**  
KEVIN WARNER, P.E.  
(970) 590-1545



**DUCKBILL EARTH ANCHOR (MODEL 88) DETAIL**  
NOT TO SCALE



**HEAVY DUTY 24" BAR GUARD 24" RAT GUARD, BAND-TYPE**  
NOT TO SCALE

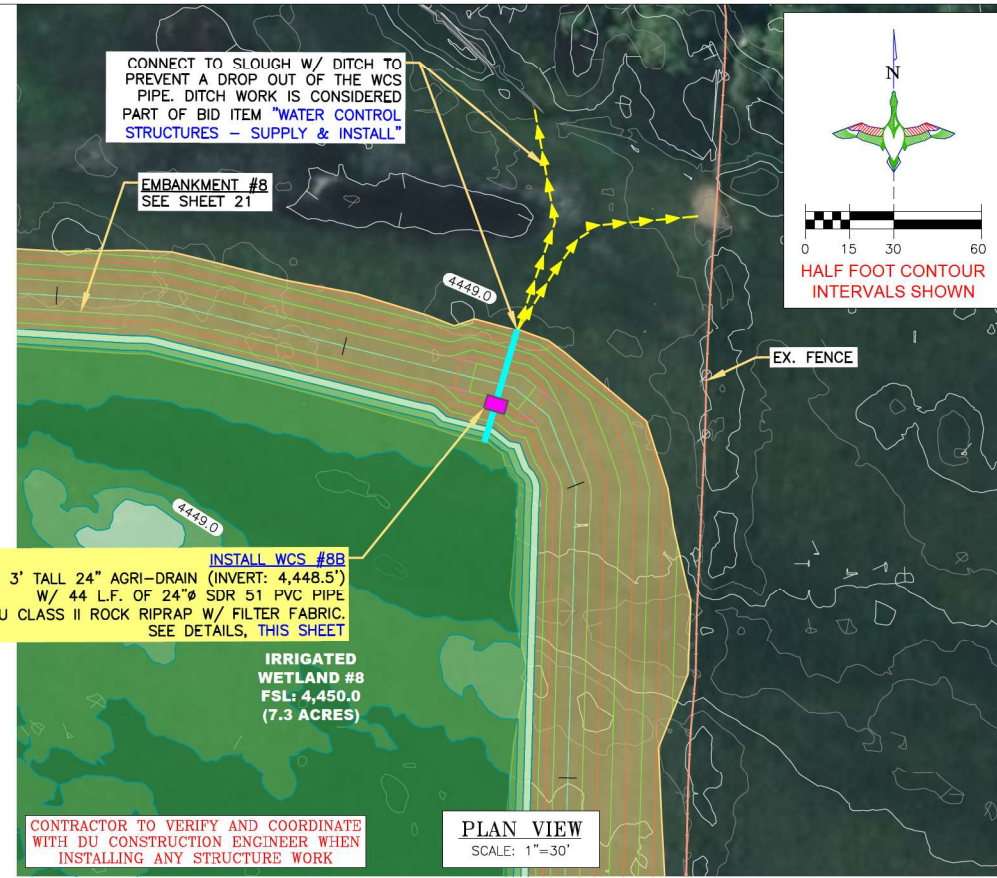
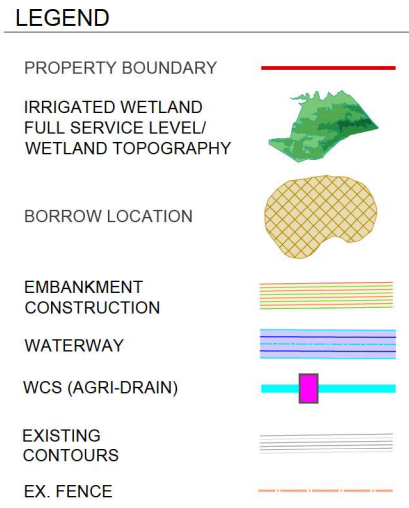


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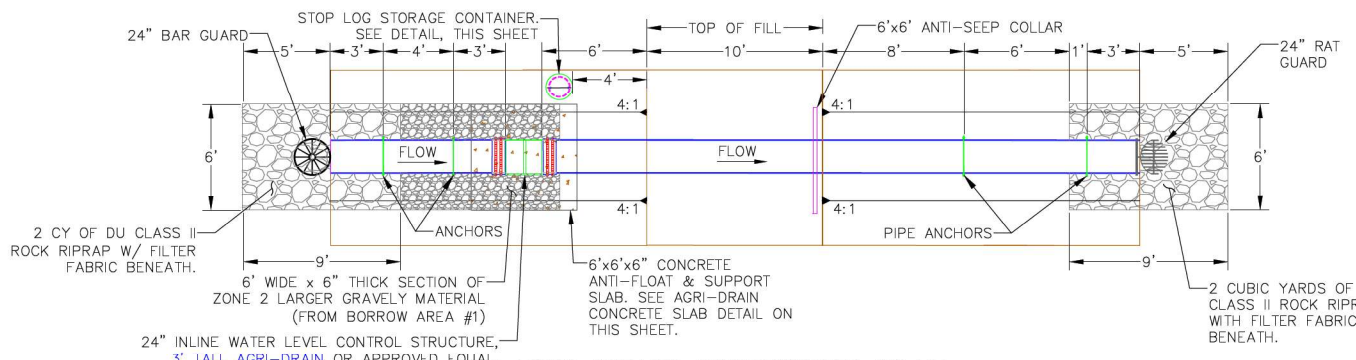


**INSTALL WCS #8B**  
INSTALL 3' TALL 24" AGRI-DRAIN (INVERT: 4,448.5')  
W/ 44 L.F. OF 24" SDR 51 PVC PIPE  
W/ 4 CY DU CLASS II ROCK RIPRAP W/ FILTER FABRIC.  
SEE DETAILS, THIS SHEET

**IRRIGATED WETLAND #8**  
FSL: 4,450.0  
(7.3 ACRES)

CONTRACTOR TO VERIFY AND COORDINATE WITH DU CONSTRUCTION ENGINEER WHEN INSTALLING ANY STRUCTURE WORK

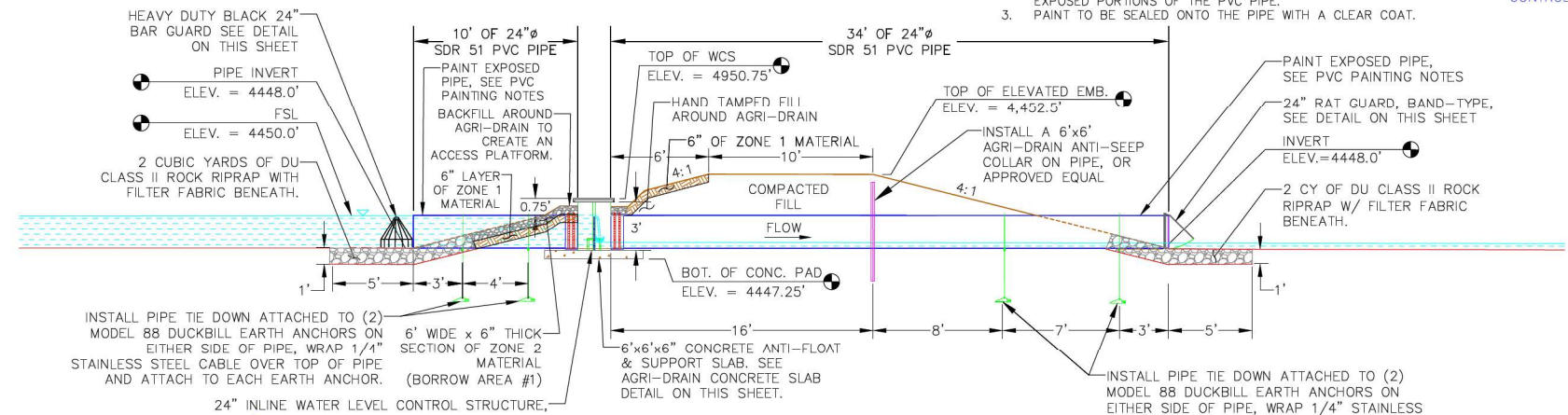
**PLAN VIEW**  
SCALE: 1"=30'



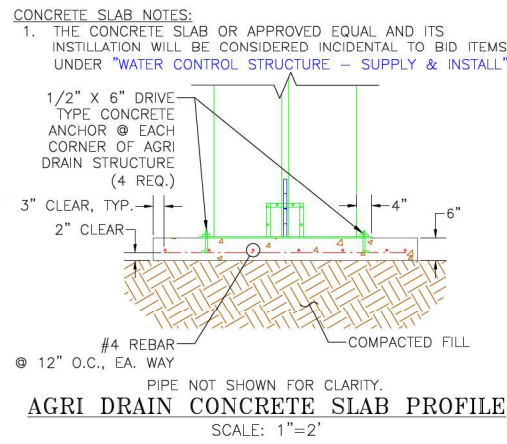
**AGRI-DRAIN STRUCTURE PLAN**  
SCALE: 1"=5' (IRRIGATED WETLAND #8, WCS #8B)

- AGRI DRAIN STRUCTURE INSTALLATION NOTES:**
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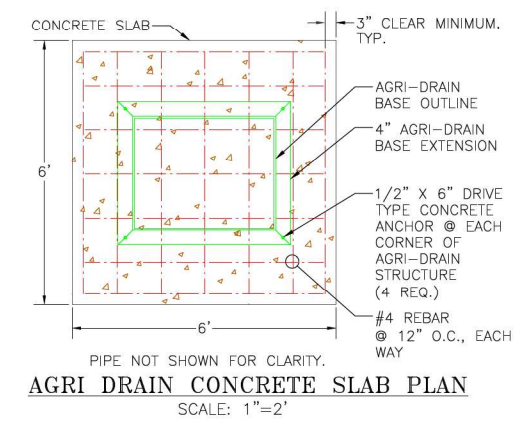
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**AGRI-DRAIN STRUCTURE PROFILE**  
SCALE: 1"=5' (IRRIGATED WETLAND #8, WCS #8B)



**AGRI DRAIN CONCRETE SLAB PROFILE**  
SCALE: 1"=2'



**AGRI DRAIN CONCRETE SLAB PLAN**  
SCALE: 1"=2'

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THOMAS PARKER, P.E.  
(970) 692-3375

**DU DESIGN ENGINEER:**  
KEVIN WARNER, P.E.  
(970) 590-1545



DESIGNED BY: KJW  
DRAWN BY: JJW  
SURVEYED BY: TRP  
CHECKED BY:  
APPROVED BY:  
APPROVED BY:

REVISION:	DATE:	BY:
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**PROJECT:**  
YOCAM RESTORATION

**SHEET TITLE:**  
INSTALL WCS #8B

**DATE:**  
5/14/2026

**SHEET TITLE:**  
INSTALL WCS #8B

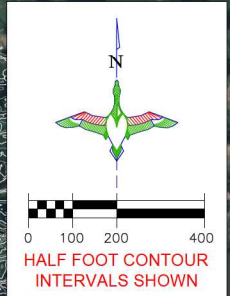
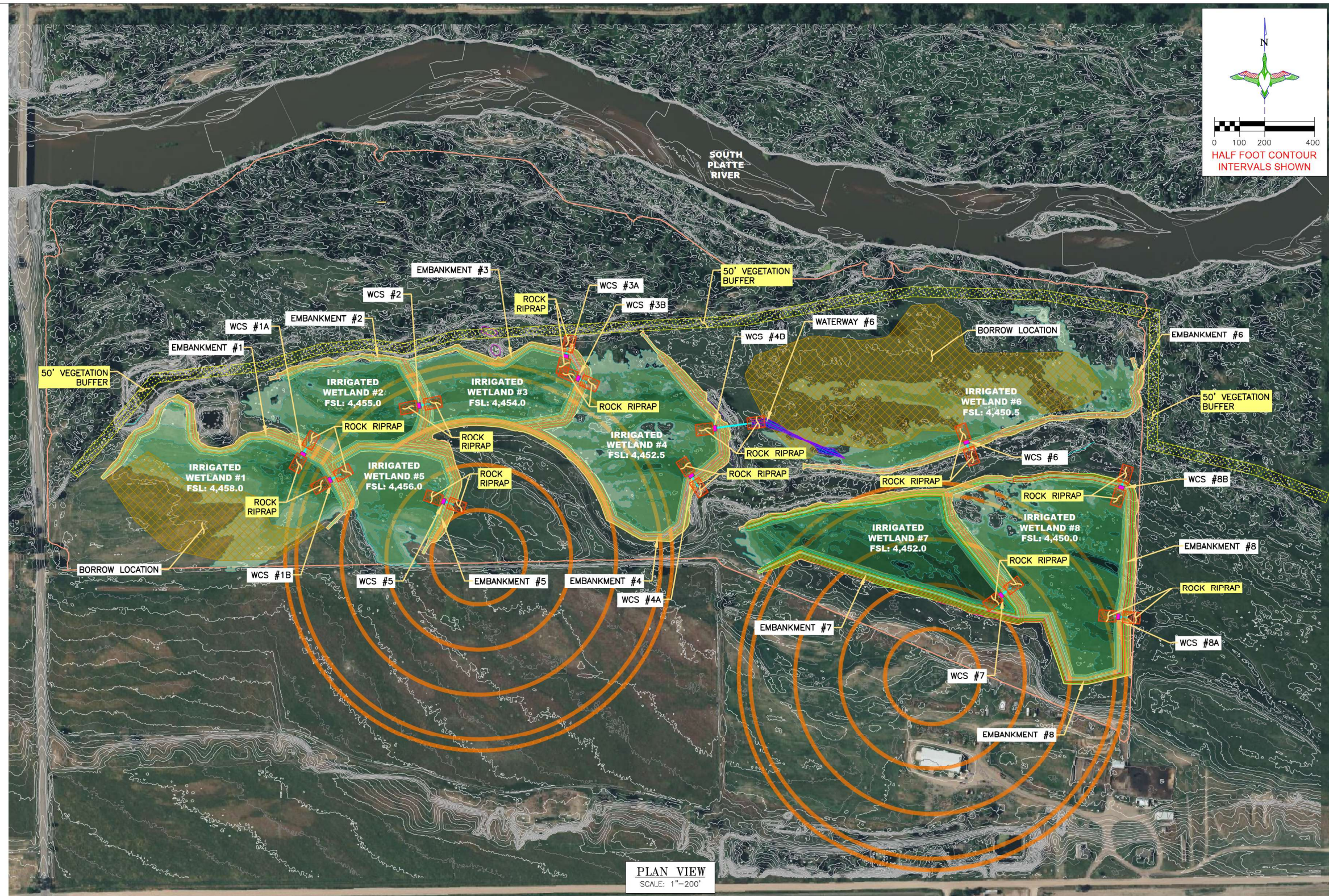
**DU PROJECT NUMBER:**  
CO-376-101

**SHEET NUMBER:**  
23

**SHEET 23 OF 25**

**LEGEND**

- PROPERTY BOUNDARY
- IRRIGATED WETLAND FULL SERVICE LEVEL
- BORROW LOCATION
- EMBANKMENT CONSTRUCTION
- WATERWAY
- WCS (AGRI-DRAIN)
- EXISTING CONTOURS
- ROCK RIPRAP
- 50' VEGETATION BUFFER
- PROPOSED CENTER PIVOT
- EX. FENCE



**DUCKS UNLIMITED INC.**  
GREAT PLAINS REGIONAL OFFICE

P.E. SEAL:  
  
 COLORADO LICENSED PROFESSIONAL ENGINEER  
 KEVIN J. WARNER  
 47794

DESIGNED BY: KJW  
 DRAWN BY: JJW  
 SURVEYED BY: TRP  
 CHECKED BY:  
 APPROVED BY:  
 APPROVED BY:

REVISION:	DATE:	BY:
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PROJECT: **YOCAM RESTORATION**

SHEET TITLE: **TEMPORARY & PERMANENT BMPs PLAN**

DATE: 5/14/2026

SHEET TITLE: **TEMPORARY & PERMANENT BMPs PLAN**

SCALES ARE ACCURATE ON 24"x36" SHEET SIZE

DU PROJECT NUMBER: **CO-376-101**

SHEET NUMBER: **24**  
SHEET 24 OF 25

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**STORM WATER POLLUTION PREVENTION PLAN**

The Colorado General Permit Authorization to Discharge Stormwater Associated with Construction Activity (Permit # \_\_\_\_\_) issued on \_\_\_\_/\_\_\_\_/\_\_\_\_ shall apply for this project.

**ABBREVIATIONS**

CDPHE: Colorado Department of Public Health and Environment
CDNR: Colorado Department of Natural Resources
USFWS: United States Fish and Wildlife Service
SWMP: Storm Water Management Plan

**LOCATION/NARRATIVE**

Location: See Sheet 1 for the location of this project.
Project Limits: See Sheet 2 of this plan for the project limits. These sheets cover the earthwork for the ponds and the water control structures.

**PROJECT CONTACTS**

SWMP Administrator:
Thomas Parker, P.E.
Ducks Unlimited
Cell: 970-692-3375
Email: tparker@ducks.org

The Contractor is responsible for implementation of the SWMP and installation, inspection and maintenance of the erosion prevention and sediment control BMP's before and during construction.

Contractor Name:
Company:
Telephone Number:
Email:

**SPILL NOTIFICATION**

In the event of a spill, the contractor's site superintendent will make the appropriate notification(s), consistent with the following procedures:
1. A reportable spill is a quantity of more than 5 gallons of petroleum which must be reported immediately to the CDPHE.
2. Any spill of oil or hazardous substance to waters of the state must be reported immediately by telephone to the CDPHE.
3. Colorado Environment Release and Reporting Line: 24 Hour (877) 518-5608

**POTENTIAL POLLUTION SOURCES**

Heavy machinery will be operated on the project site requiring the use of fuel trucks. Contamination due to fuel spills and oil leaks is possible due to the large volume of work being performed. Day to day cleaning and maintenance of equipment has the potential to impact stormwater quality. Delivery of site materials also has potential for impacting runoff quality. Another potential pollution source is sediment transport from earthwork.

**POLLUTION PREVENTION MANAGEMENT MEASURES**

Solid Wastes (None anticipated): Collected sediment, asphalt, and concrete millings, flouling debris, paper, plastic, fabric, construction and demolition debris and other wastes must be disposed of properly and must comply with the CDPHE disposal requirements.
Hazardous Materials (None anticipated): Oil, gasoline, paint and any hazardous substances must be properly stored, including secondary containment, to prevent spills, leaks or other discharge. Restricted access to storage areas must be provided to prevent vandalism. Storage and disposal of hazardous waste must be in compliance with CDPHE regulations.
Vehicle Washing: External washing of trucks and other construction vehicles must be limited to a defined area of the site. Runoff must be contained and waste properly disposed of. No engine degreasing is allowed on site.
Concrete Washout Onsite (No concrete anticipated): All liquid and solid wastes generated by concrete washout operation must be contained in a leak-proof containment facility or impermeable liner. A compacted clay liner that does not allow washout liquids to enter ground water is considered an impermeable liner. The liquid and solid wastes must not contact the ground, and there must not be runoff from the concrete washout operation or areas. Liquid and solid wastes must be disposed of properly and in compliance with CDPHE regulations. A sign must be installed adjacent to each washout facility to inform concrete equipment operators to utilize the proper facilities.

**EROSION AND SEDIMENT CONTROLS**

- (Check all that apply)
Stabilization Practices
Temporary or Permanent Seeding
Sod Placement
Planting
Mulching (Straw or Cellulose Fiber)
Erosion Control Blankets or Mats
[X] Vegetated Buffer Strips
Roughened Surface (e.g. tracking)
Gabions-Gabion Mattress
[X] Other: Rip Rap

- Structural Temporary Erosion and Sediment Controls
Silt Fence
Temporary Berm
Temporary Slope Drain
Straw Wattles or Rolls
Diversion Channels/Swoles
Channel Liners (TRM)
Stone Rip Rap Sheet
Rock Check Dams
Sediment Traps/Basins
[X] Inlet Protection
[X] Outlet Protection
Surface Inlet Protection
Curb Inlet Protection
Stabilized Construction Entrances
Other

Wetland Avoidance:
Will construction and/or erosion and sediment controls impinge on regulated wetlands?
Yes X No

If yes, the project and erosion and sediment control impacts have been included in the total project wetland impacts and have been included in the 404 permit process with the USACE.

Storm Water Management: Storm water management will be handled by temporary controls outlined in "EROSION AND SEDIMENT CONTROLS" above, and any permanent controls needed to meet permanent storm water management needs in the post construction period.

**SITE DESCRIPTION**

EXISTING CONDITIONS: The site has multiple native grassland, mixed with native shrubs and trees.

PROJECT DESCRIPTION: The purpose of the project is to create seven shallow irrigated wetlands and the create the ability to manage water in these wetlands. The project consists of constructing embankments and installing agri-drain water control structures.

**DESCRIPTION OF CONSTRUCTION ACTIVITIES**

The proposed construction activities will provide water level management to the site. Through this management more desirable wetlands will be created.

- Major Soil Disturbing Activities (check all that apply):
[X] Clearing & Grubbing
[X] Grading & Shaping
[X] Cutting & Filling
Other (describe):

Discharges to Special Or Impaired Waters: The project does not have a discharge point within 1 mile of a special water or a water that is impaired for sediment or a sediment related parameter of the permit.

Discharges to Calcareous Fen: The project does not have a discharge to a Calcareous fen.

Endangered or Threatened Species: The project area has not been identified for endangered or threatened species.

Historic Places or Archeological Sites: Historical places or archeological sites have been addressed by the USFWS.

Quantities Tabulation for All BMPs: See estimated quantities and construction notes in plans.

**ORDER OF CONSTRUCTION ACTIVITIES**

(Stabilization measures shall be initiated as soon as possible, but in no case later than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased.)

- Install initial erosion and sediment control measures.
Proceed with site grading and construction activities.
Stabilize areas disturbed by construction activities with temporary erosion and sediment control measures.
Complete final grading.
Complete permanent erosion and sediment control measures.

**ESTIMATED PROJECT AREA QUANTITIES**

Total Project Area: 151 Acres
Total Area to Be Disturbed: 27.2 Acres
Existing Impervious Area: 0.0 Acres
Proposed Impervious Area: 0.0 Acres

**EXISTING GROUND COVER**

The site has multiple existing ponds and water control structures with cattails, native grassland mixed with native shrubs and trees.

**NON-STORMWATER DISCHARGE**

None.

**RECEIVING WATER**

Runoff from the site is retained by the wetland system. Water from the project area would ultimately drain into the South Platte.

**STREAM CROSSINGS LOCATED WITHIN THE CONSTRUCTION SITE BOUNDARY**

None.

**SITE MAP**

See Sheet 1 (Cover Sheet) for vicinity and location maps. See Sheet 2 for overall site map.

**LOCATION OF SWMP REQUIREMENTS IN PROJECT PLAN**

See the Erosion and Sediment Controls notes on this sheet and plan on Sheet 26.

**FINAL STABILIZATION AND LONGTERM STORMWATER MANAGEMENT**

Following site construction, the goal is to achieve a stabilized cover condition to provide long-term stormwater protection. Stabilization is quantified by achieving uniform cover equal to 70% of the pre-disturbance condition. The post-construction condition of the site shall be that the majority of the disturbed area will be compacted soil and seeded. Once the seeding takes, this shall virtually eliminate erosion from the site. Permanent seeding with mulching is installed as needed. Drainage ditches, pans, and culverts shall be cleaned of debris and sediment. Repair eroded sloped or drainage paths by backfilling. Remove all silt fences following establishment of permanent stable vegetation.

**CONSTRUCTION CHANGES**

When changes are made to the construction project that will require alterations in the temporary erosion controls of the site, the Storm Water Management Plan (SWMP) will be amended to provide appropriate protection to disturbed areas, all storm water structures, and adjacent waters. The SWMP will be retained in a designated place for review over the course of the project.

**MAINTENANCE AND INSPECTION**

Maintenance and Inspection Practices
Inspections will be conducted at least one time per week and after a storm event of 0.50 inches or greater.
All controls will be maintained in good working order. Necessary repairs will be initiated within 24 hours of the site inspection report or as soon as field conditions allow access.
Where work has been suspended due to frozen ground conditions, the required inspections and maintenance must take place as soon as runoff occurs at the site or prior to resuming construction, whichever comes first.
Where parts of the construction site have undergone final stabilization, but work remains on other parts of the site, inspections of the stabilized areas may be reduced to once per month.
Silt fence will be inspected for depth of sediment and for tears in order to ensure the fabric is securely anchored. Sediment buildup will be removed from the silt fence when it reaches 1/2 of the height of the silt fence. All silt fences must be repaired, replaced, or supplemented when they become nonfunctional or the sediment reaches 1/2 of the height of the fence.
Sediment basins and traps will be checked. Sediment will be removed when the depth reaches approximately 50 percent of the structure's capacity.
Check dams will be inspected for stability. Sediment will be removed when the depth reaches 1/2 the height of the dam.
All seeded areas will be checked for bare spots, washouts, and vigorous growth free of significant weed infestations.
Surface waters, including drainage ditches and conveyance systems, must be inspected for evidence of sediment being deposited by erosion.
Construction site vehicle exit locations must be inspected for evidence of off-site sediment tracking onto paved surfaces. Tracked sediment must be removed from all off-site paved surfaces within 24 hours of discovery.
Disturbed areas will be checked for stabilization. Stabilization measures shall be initiated as soon as construction activity in that portion of the site has temporarily or permanently ceased.
The normal wetted perimeter of any temporary or permanent drainage ditch or swale that drains water from any portion of the construction site, or diverts water around the site, must be stabilized within 200 lineal feet from the property edge, or from the point of discharge into any surface water. Stabilization of the last 200 lineal feet must be completed within 24 hours after connection to a surface water.
Stabilization of the remaining portions of any temporary or permanent ditches or swales must be completed within 14 days after connecting to a surface water and construction in that portion of the ditch has temporarily or permanently ceased.
Temporary or permanent ditches or swales that are being used as a sediment containment system (with properly designed rock ditch checks, bio rolls, silt dikes, etc.) do not need to be stabilized. These areas must be stabilized within 24 hours after no longer being used as a sediment containment system.
Pipe outlets must be provided with temporary or permanent energy dissipation within 24 hours after connection to a surface water.
Discharge procedures for water control and dewatering operations will be inspected. If the water cannot be discharged to a sedimentation basin prior to entering the surface water, it must be treated with the appropriate BMPs, such that the discharge does not adversely affect the receiving water or downstream landowners.
Inspection and maintenance reports will be completed for each site inspection, this form will also be used to document changes to the SWMP. The report shall include the date and amount of precipitation or snowmelt events that cause surface erosion. A copy of the completed inspection form will be filed with the SWMP documents.
The Contractor's site superintendent is responsible for inspection. Maintenance and repair activities are the responsibility of the Contractor.

**DAILY STORMWATER POLLUTION PREVENTION PLAN LOG BOOK**

SWPPP ADMINISTRATOR:
INSPECTOR: DATE/TIME:

**INSPECTION ITEMS:**

- Inlet Filters
Straw Bale Dikes
Silt Fence
Pond Outlet
Vehicle Tracking Pad
Pond Sediment
Surface Erosion
Riprap Structures
Drainage Pans

REPAIRS OR MAINTENANCE NEEDED:

REPAIRS OR MAINTENANCE MADE:

MAINTENANCE ITEMS:

CONTACTS MADE: AGENCY:

MATERIALS HANDLING:
ITEMS DELIVERED:

ACTIONS TAKEN:

SPILL REPORTING:
MATERIAL SPILLED:

WHY MATERIAL SPILLED:

QUANTITY:

LOCATION:

WEATHER CONDITIONS:

SPILL START TIME: SPILL STOP TIME: AM/PM

CLEANUP METHOD:

DISPOSAL METHOD:

ENTER N/A IF ITEM IS NOT APPLICABLE TO THE SITE SWMP.



DESIGNED BY: KJW
DRAWN BY: JJW
SURVEYED BY: TRP
CHECKED BY:
APPROVED BY:
APPROVED BY:

Table with 8 columns for REVISION, DATE, and BY.

PROJECT: YOCAM RESTORATION
SHEET TITLE: SWMP NOTES

DATE: 5/14/2026

SHEET NUMBER: SWMP NOTES

SCALES ARE ACCURATE ON 24"x36" SHEET SIZE

DU PROJECT NUMBER: CO-376-101

SHEET NUMBER: 25 SHEET 25 OF 25

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"BEFORE YOU DIG"
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 "ONE CALL OF COLORADO" AT 811. A 72 HOUR NOTIFICATION AND FULL DESCRIPTION OF LOCATION IS REQUIRED.

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