

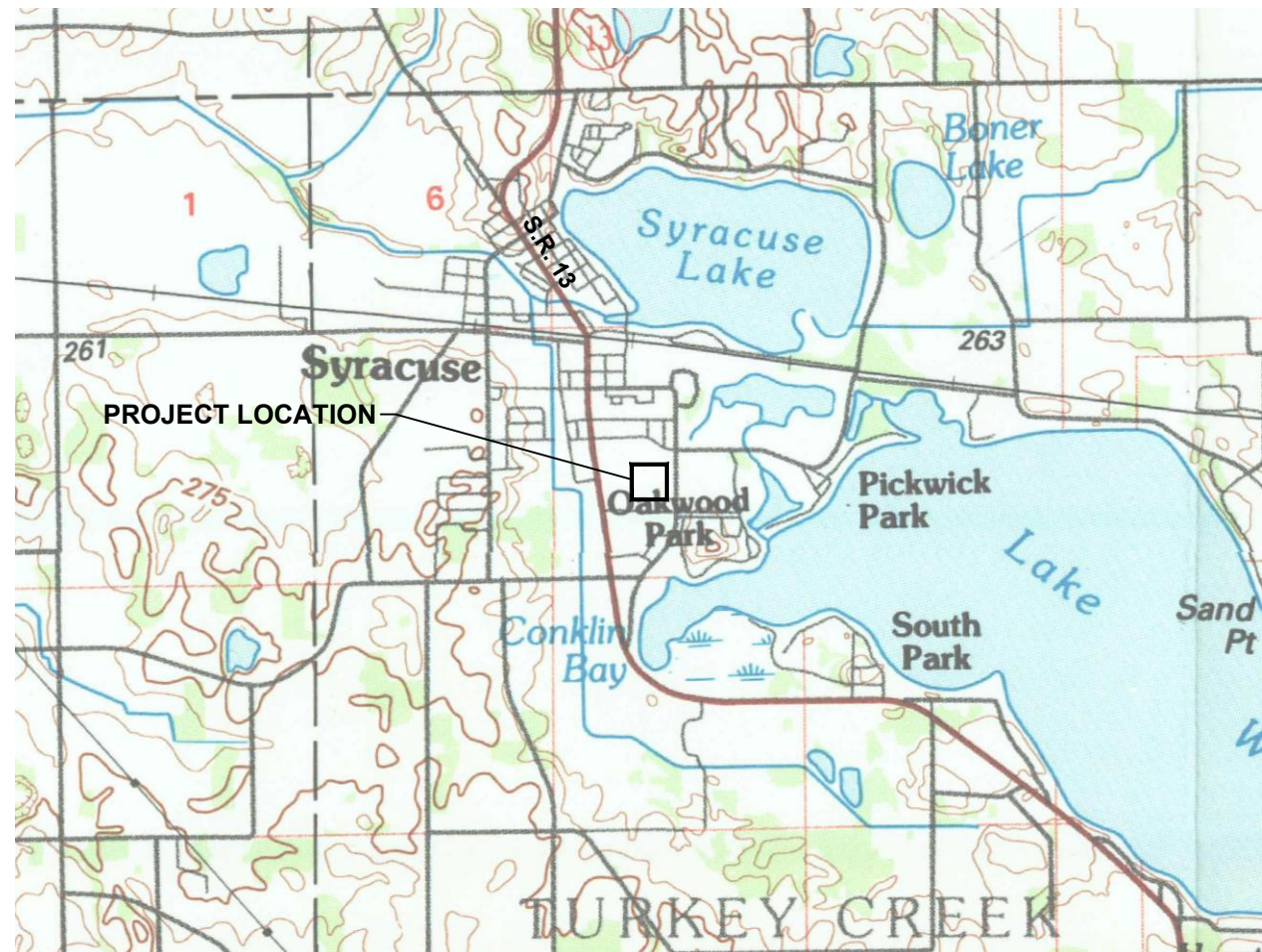
TURKEY CREEK DAM AND DIKE CONSERVANCY DISTRICT LAKE WAWASEE DIKE REHABILITATION KOSCIUSKO COUNTY, INDIANA

DECEMBER 2022

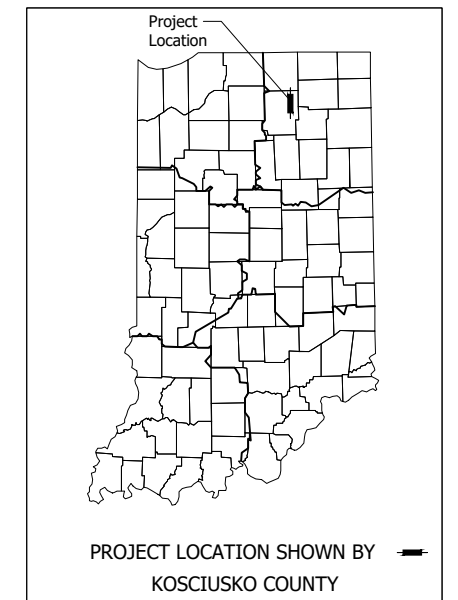
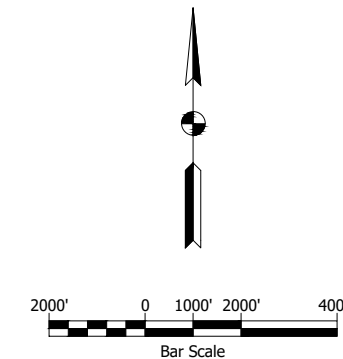
INDEX OF DRAWINGS	
SHEET NO.	DESCRIPTION
1	Title Sheet and Drawing Index
2	Proposed Site Plan
3 - 4	Plan and Elevation
5	Miscellaneous Details
6 - 10	Cross Sections

DISTRICT BOARD

	District 1
James Silcox	District 2
William Pipp	District 3
David Johnston	District 4
Carolyn Anderson	District 5



LOCATION MAP



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SOUTH BEND, INDIANA 46601
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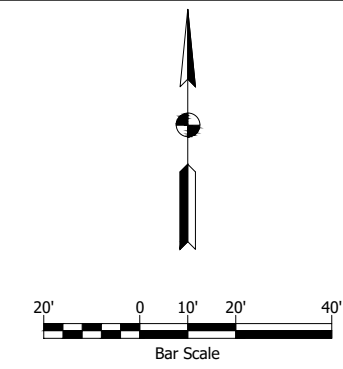
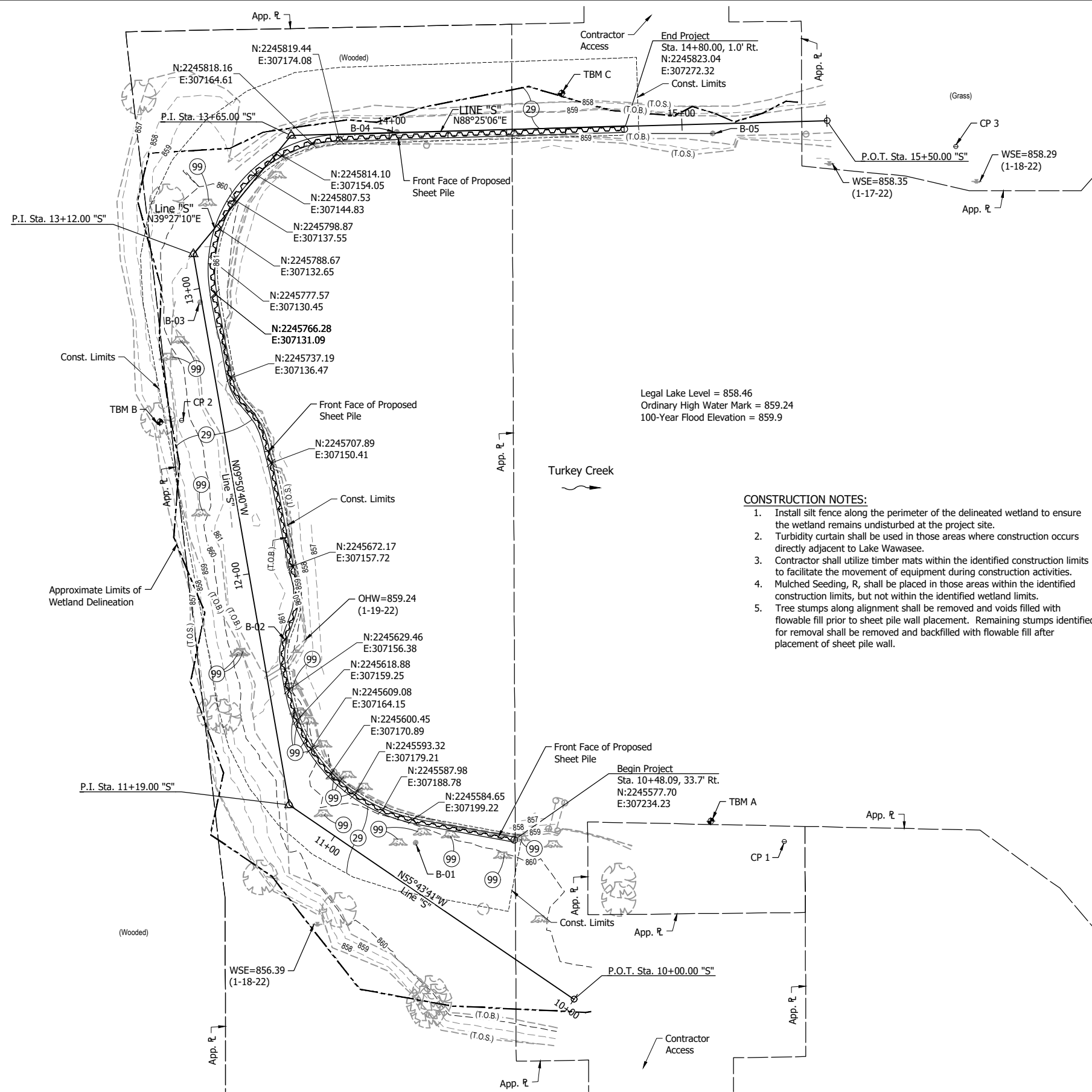
TURKEY CREEK DAM AND
DIKE CONSERVANCY DISTRICT
LAKE WAWASEE DIKE REHABILITATION
TITLE SHEET AND DRAWING INDEX

REVISIONS
DRAWN: GDH
CHECKED: CJJ

HORIZONTAL SCALE BAR SCALE
VERTICAL SCALE
SURVEY BOOK
DATE
DECEMBER 2022

PROJECT NUMBER	202104.20
SHEETS	1 OF 10

U:\2021\202104\202104_turkey ck\Plan Set\Cad\Plan Set\210420HY_SF.dwg (PROPOSED SITE PLAN)



LEGEND (EXISTING FEATURES):

- Temporary Bench Mark
- Control Point
- Soil Boring
- Post
- ⬇ Water Surface Elevation
- ⊗ Deciduous Tree
- ⊗ Stump
- ⊗ Mulched Seeding, R
- ⊗ Remove

NOTES:

1. Unless noted otherwise, all bearings, distances, areas, and coordinates shown hereon are based upon the Indiana State Plane Coordinate System's East Zone (INSPC-1301) per NAD 83 (2011) Epoch 2010.00 and are reported in U.S. Survey Feet and decimal parts thereof.
2. Unless noted otherwise, all elevations shown hereon are based upon the North American Vertical Datum of 1988 (NAVD 88) as established on the U.S. Geological Survey Gauging Station (USGS) RM 8; elevation 861.740.
3. The project is located in Section 8, T-34-N R-7-E (Turkey Creek Twp.), Kosciusko County, State of Indiana.
4. Horizontal Control Points (CP) 1 & 3 were established by the simple mean average of a minimum of three separate Global Navigation Satellite System (GNSS) observations averaging 309 epochs each. The GNSS observation class was Real Time Kinematic (RTK) and utilized the Trimble VRS Now (TVN) as the correction source. CP2 was established by averaging two total station observations.
5. Level circuits were completed to establish the temporary bench mark and control point elevations. The GNSS (RTK/TVN) established elevation of LFA CP3 was used as the father bench marks for the level circuit.
6. Equipment Used:
 - a. Trimble R10 GNSS Receiver (3mm // 8mm+1ppm RMS)
 - b. Trimble DiNi Digital Level (0.7mm/km)
 - c. Trimble S6 Robotic Total Station (3" 2mm+2ppm)
7. Topographic survey was completed on January 19, 2022.

Legal Lake Level = 858.46
 Ordinary High Water Mark = 859.24
 100-Year Flood Elevation = 859.9

CONSTRUCTION NOTES:

1. Install silt fence along the perimeter of the delineated wetland to ensure the wetland remains undisturbed at the project site.
2. Turbidity curtain shall be used in those areas where construction occurs directly adjacent to Lake Wawasee.
3. Contractor shall utilize timber mats within the identified construction limits to facilitate the movement of equipment during construction activities.
4. Mulched Seeding, R, shall be placed in those areas within the identified construction limits, but not within the identified wetland limits.
5. Tree stumps along alignment shall be removed and voids filled with flowable fill prior to sheet pile wall placement. Remaining stumps identified for removal shall be removed and backfilled with flowable fill after placement of sheet pile wall.

ID	Northing	Easting	Latitude	Longitude	Elevation (NAVD 88)	Marker
CP1	2245577.1610	307327.4555	N41°24'47.67338"	W85°44'32.41350"	859.31	1/2" x 18" Rebar w/ Blue Cap Stamped 'LAWSON-FISHER'
CP2	2245722.4663	307119.5065	N41°24'49.10722"	W85°44'35.14444"	859.43	1/2" x 18" Rebar w/ Blue Cap Stamped 'LAWSON-FISHER'
CP3	2245817.0883	307386.6689	N41°24'50.04442"	W85°44'31.63909"	859.68	1/2" x 18" Rebar w/ Blue Cap Stamped 'LAWSON-FISHER'

Control point elevations are provided for reference. It should be understood that the markers used are subject to vertical movement due to frost heave, vehicle movements and other environmental factors. All horizontal control point elevations are superseded by bench mark elevations.

ID	Elevation (NAVD 88)	Remarks	Northing	Easting	Latitude	Longitude
TBM A	858.94	1 3/8" Cut Circle; N.W. Cor. of S Sea Wall	2245584.2	307302.2	N41°24'47.74"	W85°44'32.75"
TBM B	858.40	Cotton Gin Gear; Set Vertically in S.E. Root 20" Tree	2245722.0	307112.0	N41°24'49.10"	W85°44'35.24"
TBM C	857.95	Cotton Gin Gear; Set Vertically in S.W. Root 6" Tree	2245835.4	307250.7	N41°24'50.22"	W85°44'33.42"

Bench mark horizontal coordinates are provided for reference. It should be understood that the method and means used to establish the horizontal coordinates of the bench marks is not the same class and standard as those used to establish the horizontal control points. The coordinates only serve as an aid in locating the marks and are superseded by horizontal control point coordinates.

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TURKEY CREEK DAM AND DIKE CONSERVANCY DISTRICT LAKE WAWASEE DIKE REHABILITATION

PROPOSED SITE PLAN

REVISIONS	HORIZONTAL SCALE BAR SCALE VERTICAL SCALE	PROJECT NUMBER 202104.20
DRAWN: JAJ	SURVEY BOOK	SHEETS
CHECKED: CJJ	DATE DECEMBER 2022	2 OF 10

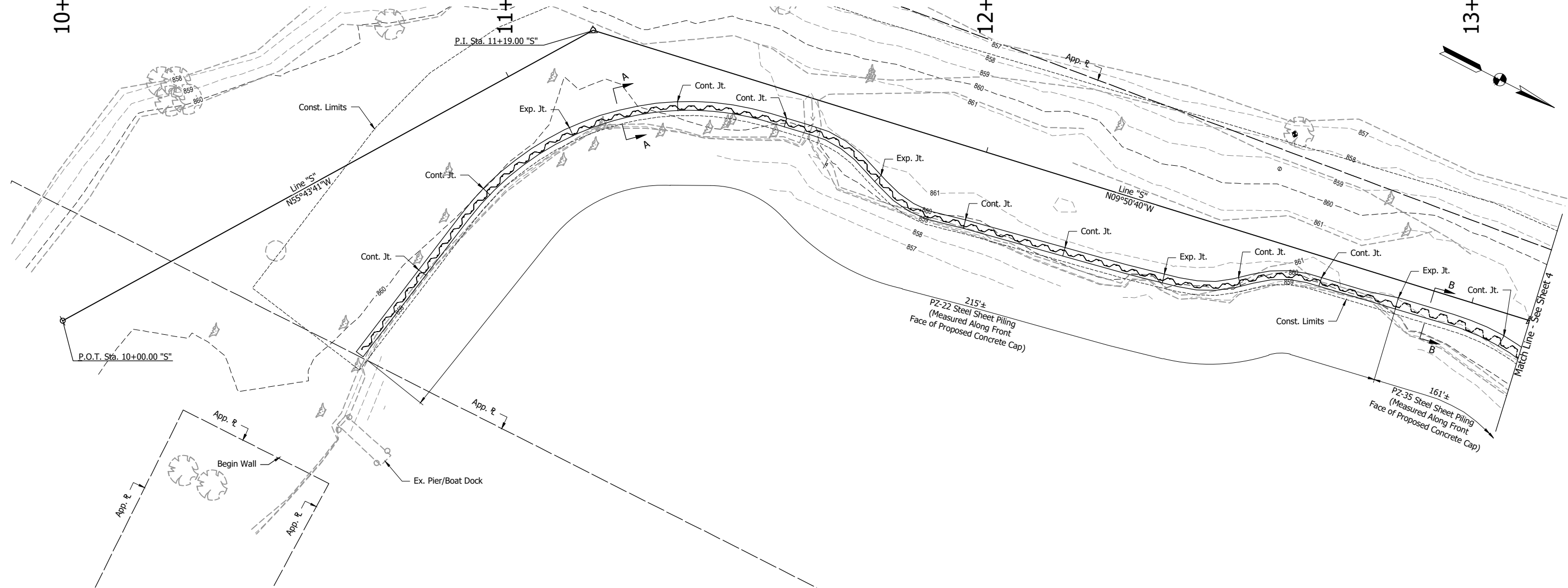
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10+00

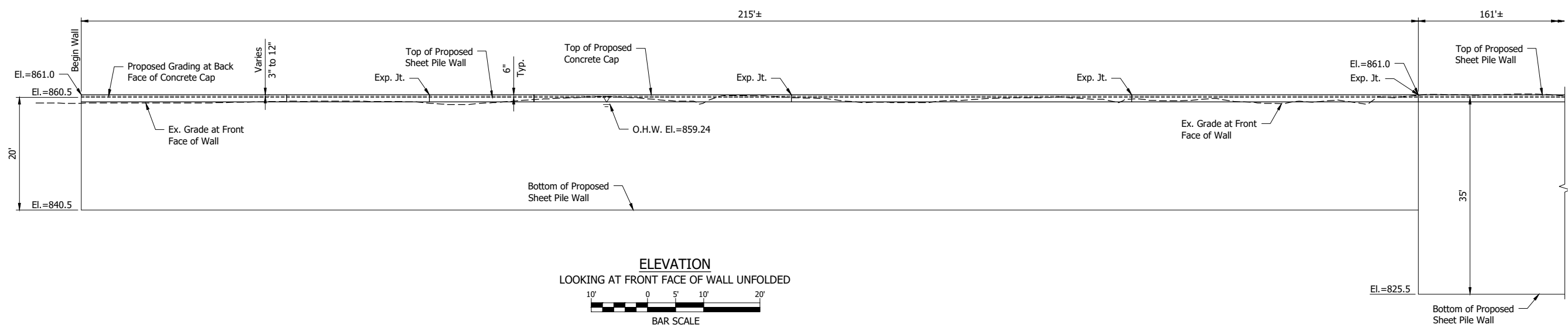
11+00

12+00

13+00



PLAN



ELEVATION
LOOKING AT FRONT FACE OF WALL UNFOLDED
BAR SCALE

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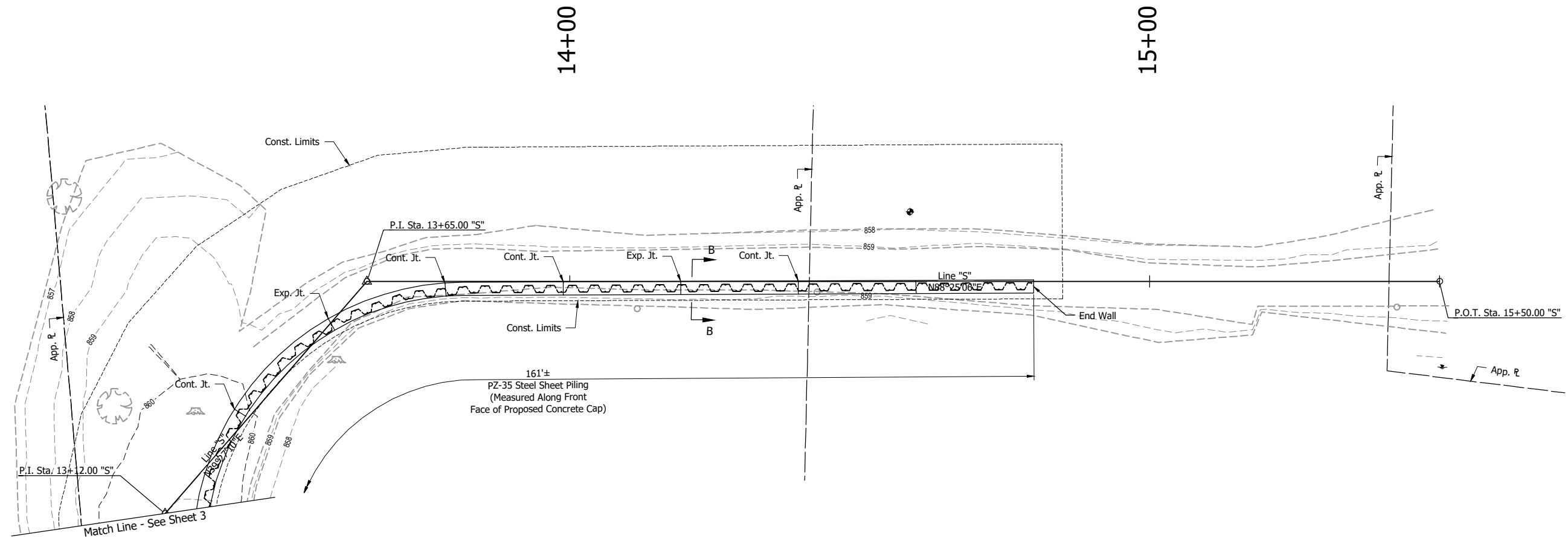
TURKEY CREEK DAM AND
DIKE CONSERVANCY DISTRICT
LAKE WAWASEE DIKE REHABILITATION
PLAN AND ELEVATION

REVISIONS
DRAWN: JAJ
CHECKED: EK

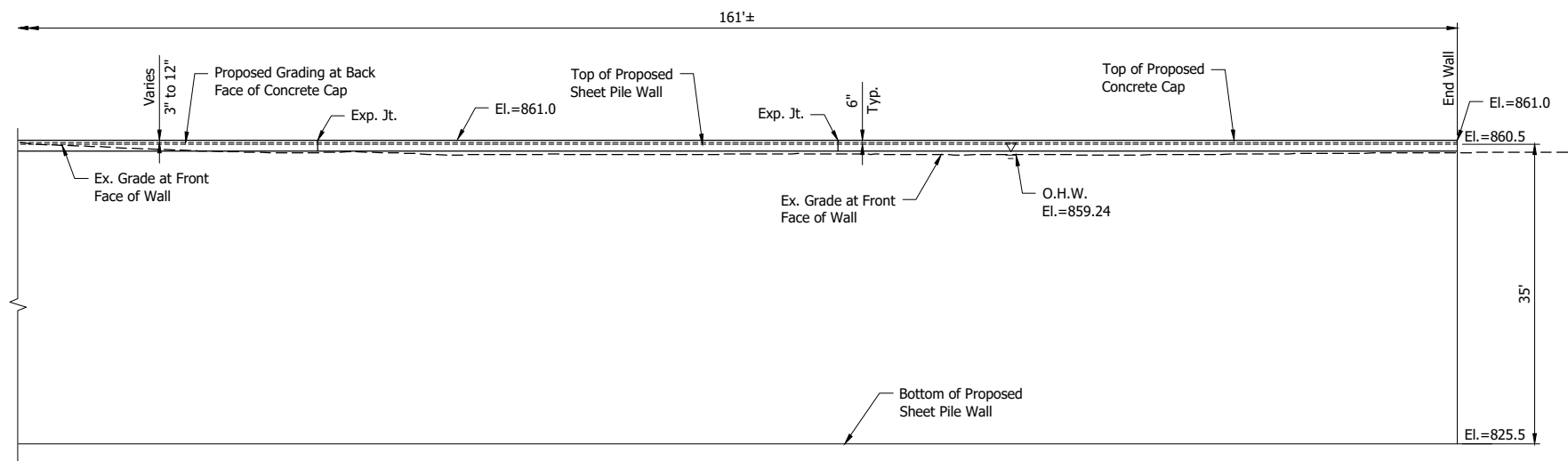
HORIZONTAL SCALE BAR SCALE
VERTICAL SCALE
SURVEY BOOK
DATE
DECEMBER 2022

PROJECT NUMBER	202104.20
SHEETS	3 OF 10

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PLAN



ELEVATION
LOOKING AT FRONT FACE OF WALL UNFOLDED

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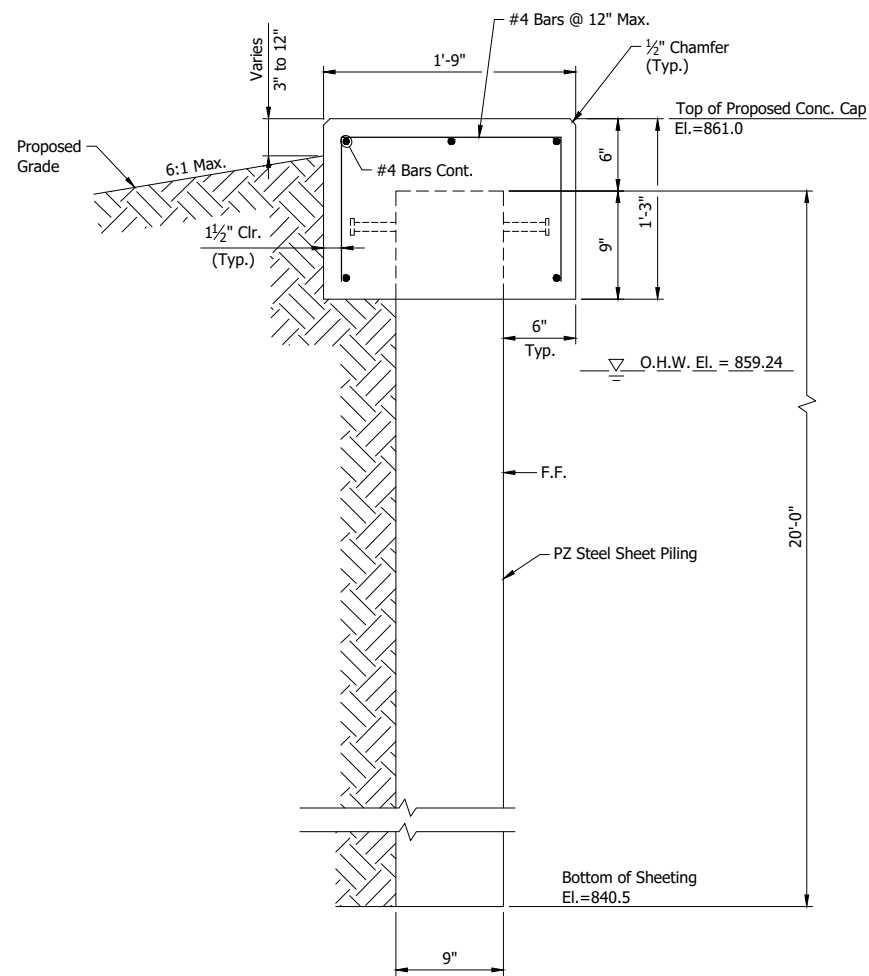
TURKEY CREEK DAM AND
DIKE CONSERVANCY DISTRICT
LAKE WAWASEE DIKE REHABILITATION
PLAN AND ELEVATION

REVISIONS
DRAWN: JAJ
CHECKED: EK

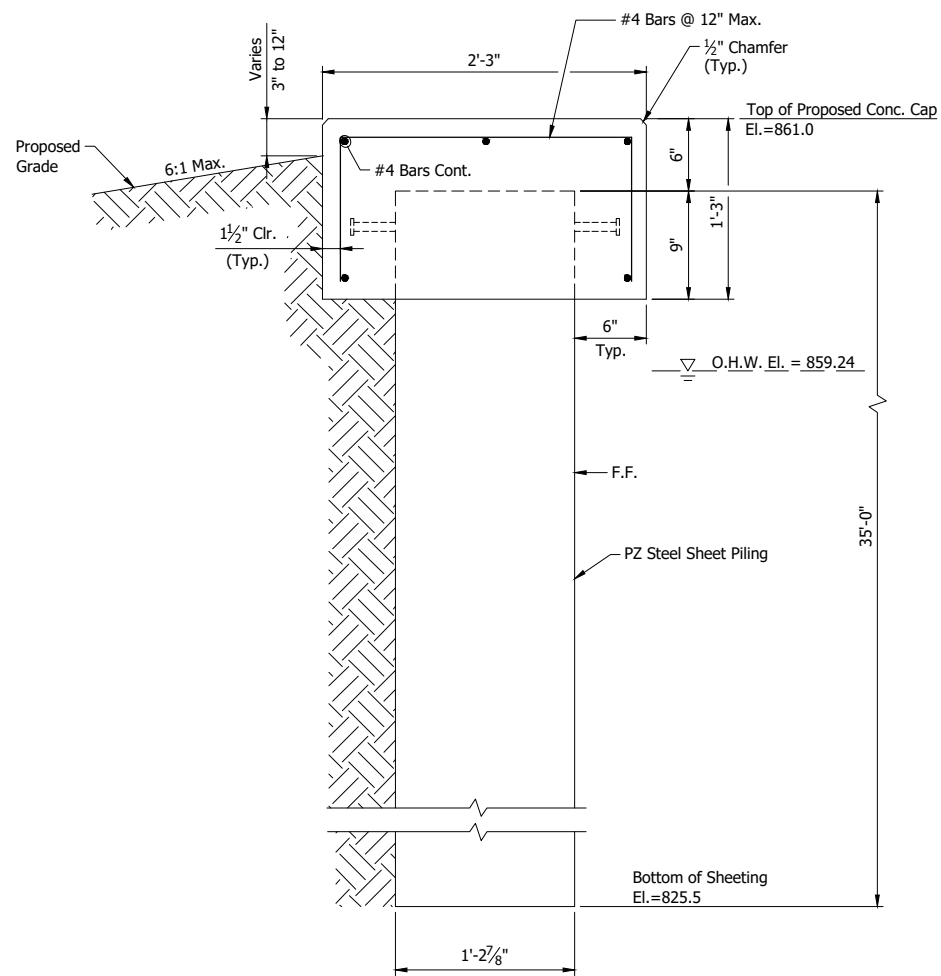
HORIZONTAL SCALE BAR SCALE
VERTICAL SCALE
SURVEY BOOK
DATE DECEMBER 2022

PROJECT NUMBER 202104.20
SHEETS 4 OF 10

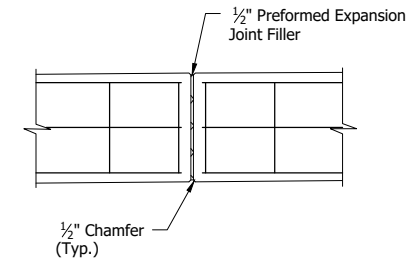
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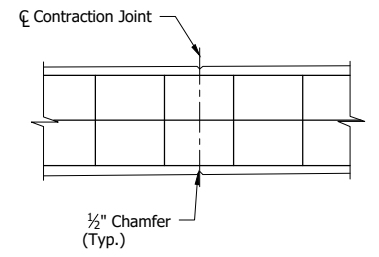
SECTION A-A
PZ-22



SECTION B-B
PZ-35



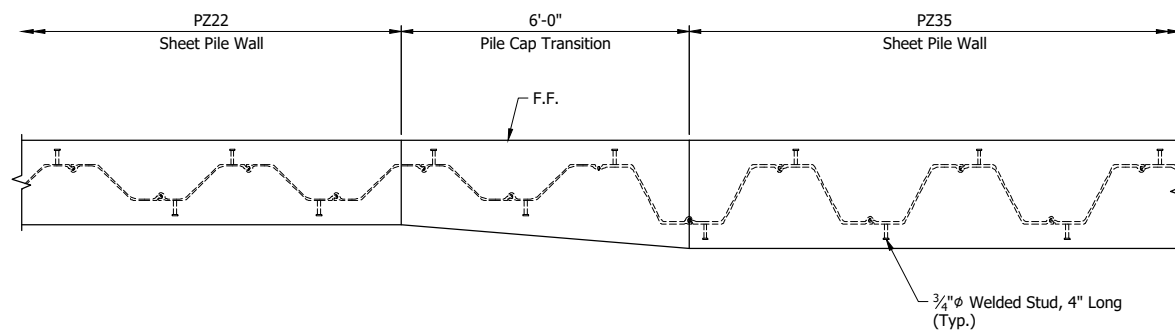
EXPANSION JOINT DETAIL



CONTRACTION JOINT DETAIL

CONCRETE JOINT NOTES:

1. Expansion joints in walls shall be 66 ft. maximum on center.
2. Longitudinal reinforcing shall be continuous between contraction joints.
3. Contraction joints in walls shall be 22 ft. maximum on center.
4. See sheet 3 and 4 for location of expansion and contraction joints.



BILL OF MATERIALS

Item	Quantity	Unit
Plain Reinforcing Steel	2129	LB
Concrete Cap	34.3	CYS
PZ22 Steel Sheet Piling	4300	SFT
PZ35 Steel Sheet Piling	5635	SFT
3/4" φ Shear Studs, 4" Long	214	EACH
1/2" Expansion Joint Filler	15	SFT

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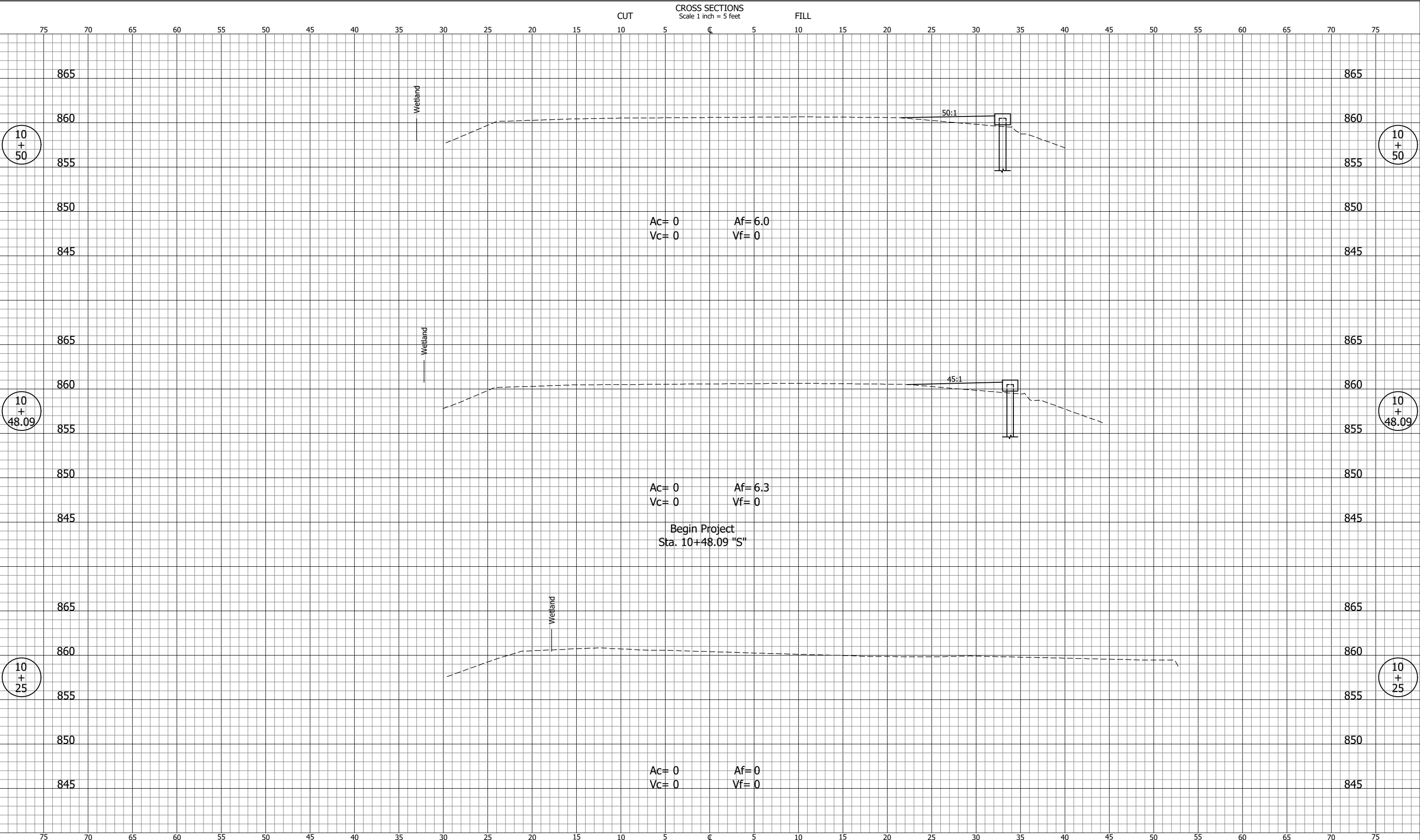
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TURKEY CREEK DAM AND
DIKE CONSERVANCY DISTRICT
LAKE WAWASEE DIKE REHABILITATION
MISCELLANEOUS DETAILS

REVISIONS	HORIZONTAL SCALE AS NOTED	PROJECT NUMBER 202104.20
	VERTICAL SCALE	
DRAWN: JAJ	SURVEY BOOK	SHEETS
CHECKED: EK	DATE DECEMBER 2022	5 OF 10

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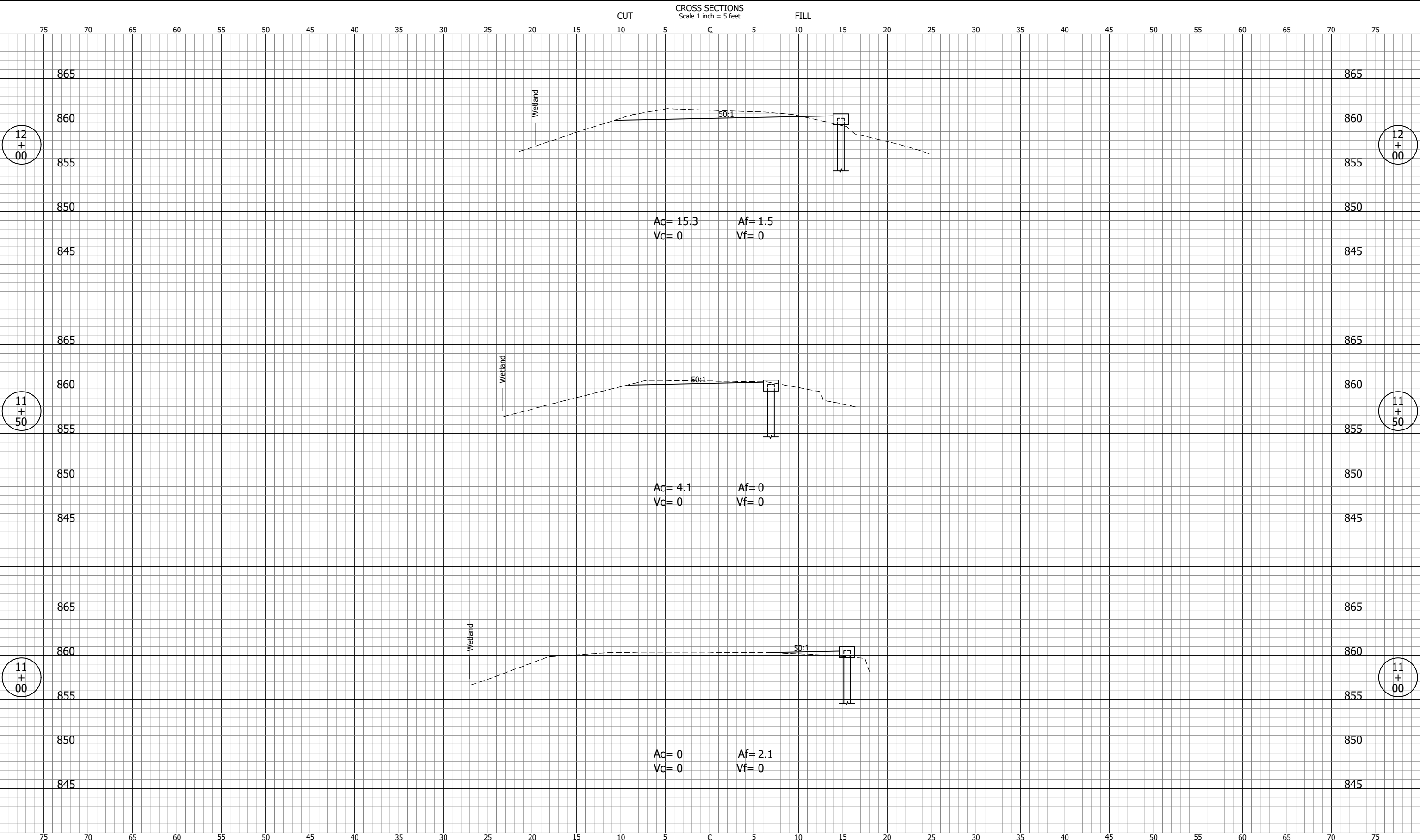
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**TURKEY CREEK DAM AND
 DIKE CONSERVANCY DISTRICT
 LAKE WAWASEE DIKE REHABILITATION**

CROSS SECTIONS

REVISIONS	HORIZONTAL SCALE 1:5 VERTICAL SCALE 1:5	PROJECT NUMBER 202104.20
DRAWN: JAJ	SURVEY BOOK	SHEETS 6 OF 10
CHECKED: CJJ	DATE DECEMBER 2022	

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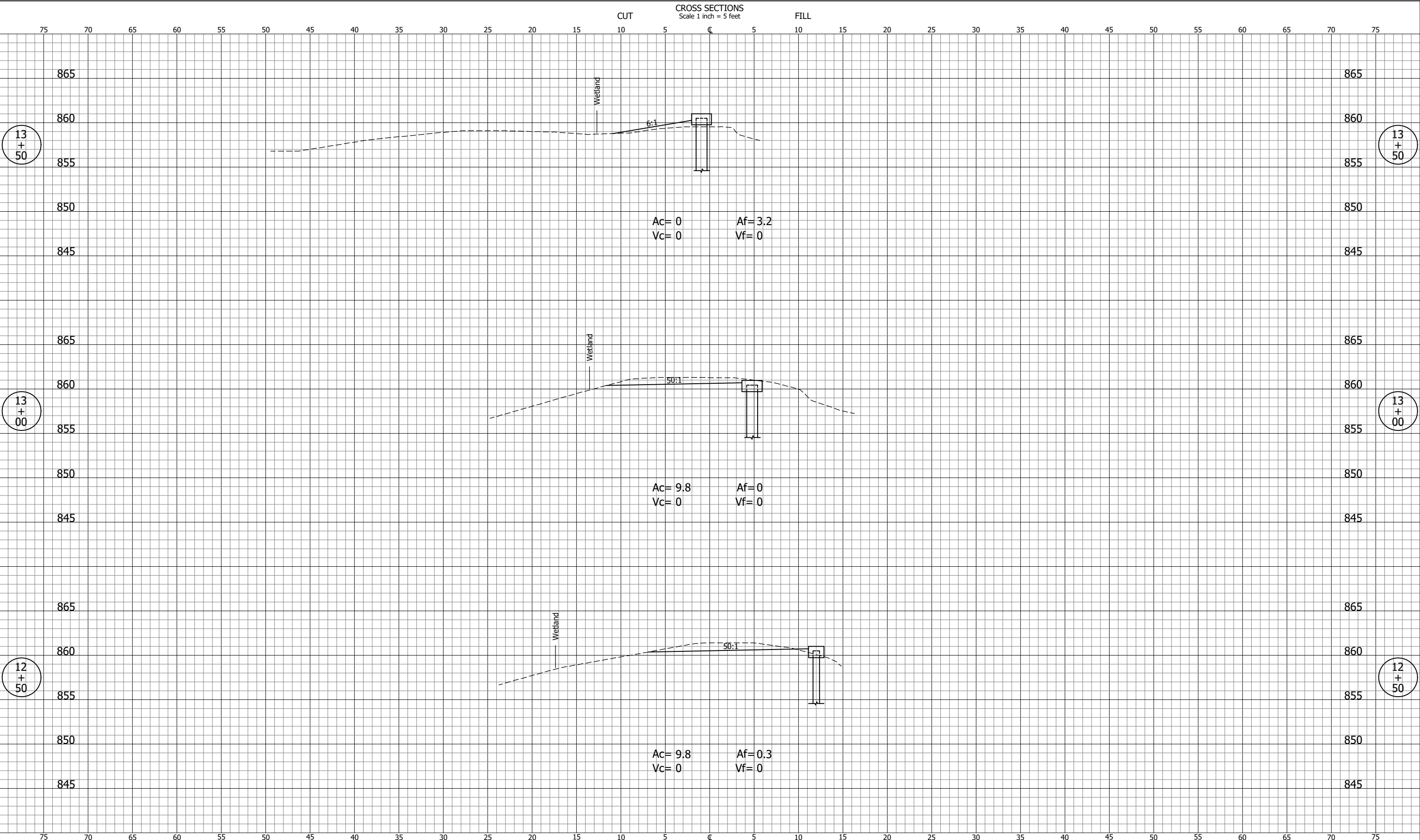
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**TURKEY CREEK DAM AND
 DIKE CONSERVANCY DISTRICT
 LAKE WAWASEE DIKE REHABILITATION**

CROSS SECTIONS

REVISIONS	HORIZONTAL SCALE 1:5	PROJECT NUMBER 202104.20
	VERTICAL SCALE 1:5	
DRAWN: JAJ	SURVEY BOOK	SHEETS
CHECKED: CJJ	DATE DECEMBER 2022	7 OF 10

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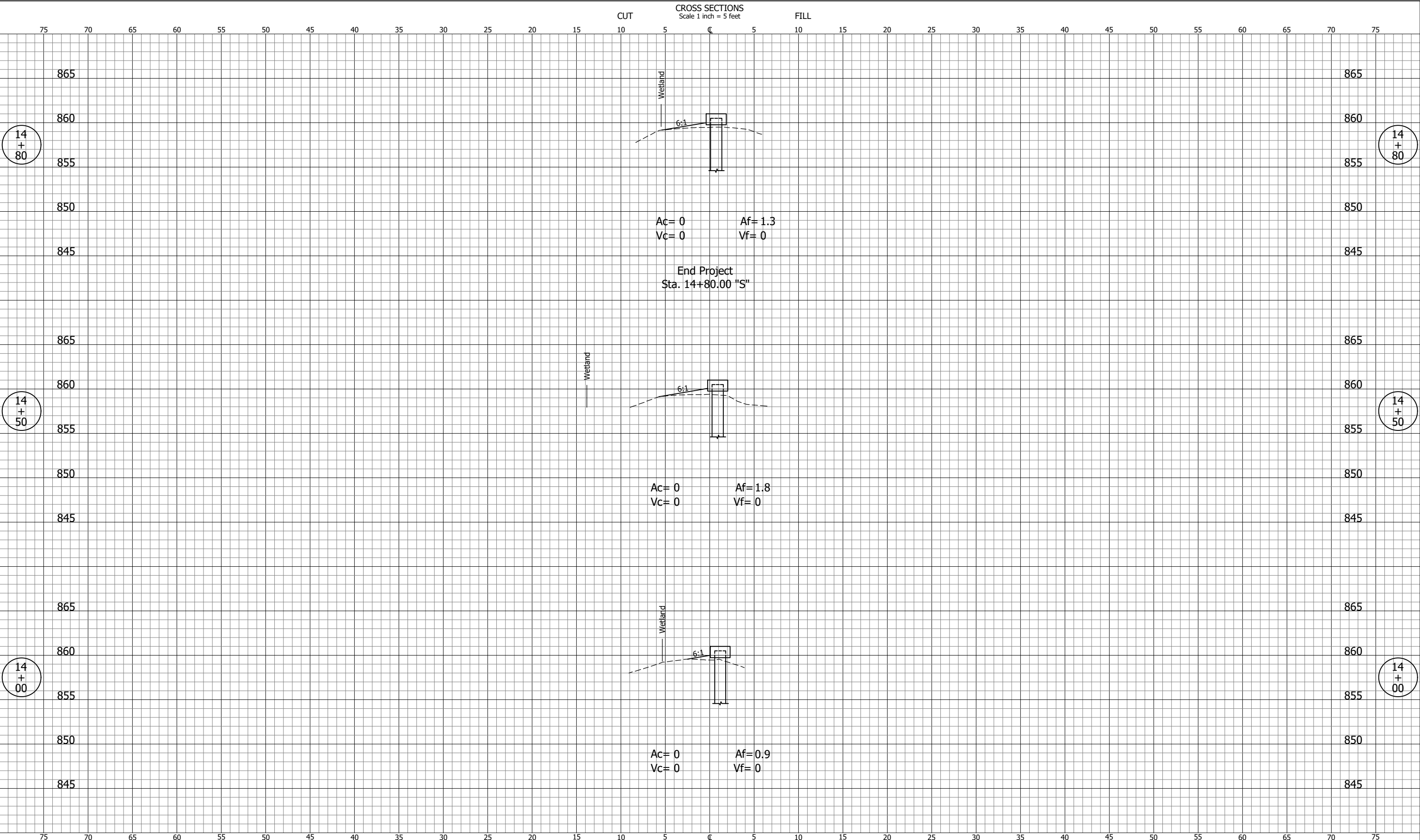
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**TURKEY CREEK DAM AND
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LAKE WAWASEE DIKE REHABILITATION**

CROSS SECTIONS

REVISIONS	HORIZONTAL SCALE 1:5 VERTICAL SCALE 1:5	PROJECT NUMBER 202104.20
DRAWN: JAJ	SURVEY BOOK	SHEETS 8 OF 10
CHECKED: CJJ	DATE DECEMBER 2022	

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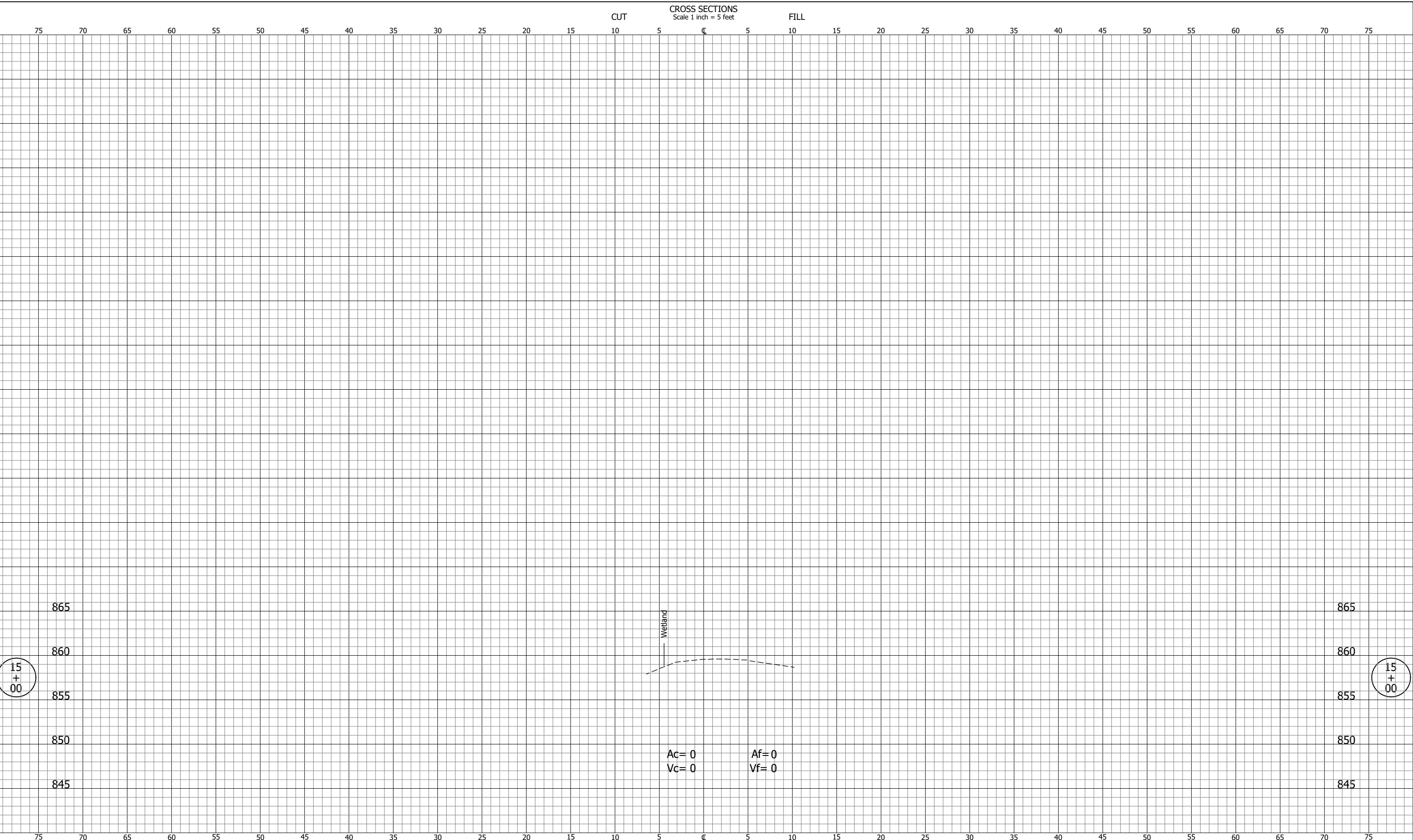
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CROSS SECTIONS

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DRAWN: JAJ	SURVEY BOOK	SHEETS 9 OF 10
CHECKED: CJJ	DATE DECEMBER 2022	

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CROSS SECTIONS

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