

Tusconia Reclamation Project

Mindenmines, Missouri

olsson

Olsson - Civil Engineering
Missouri Certificate of Authority #100592
1027 S. Main Street, Suite 503
Joplin, MO 64801 TEL 417.781.0643 www.olsson.com

Olsson Project Number: 022-06637

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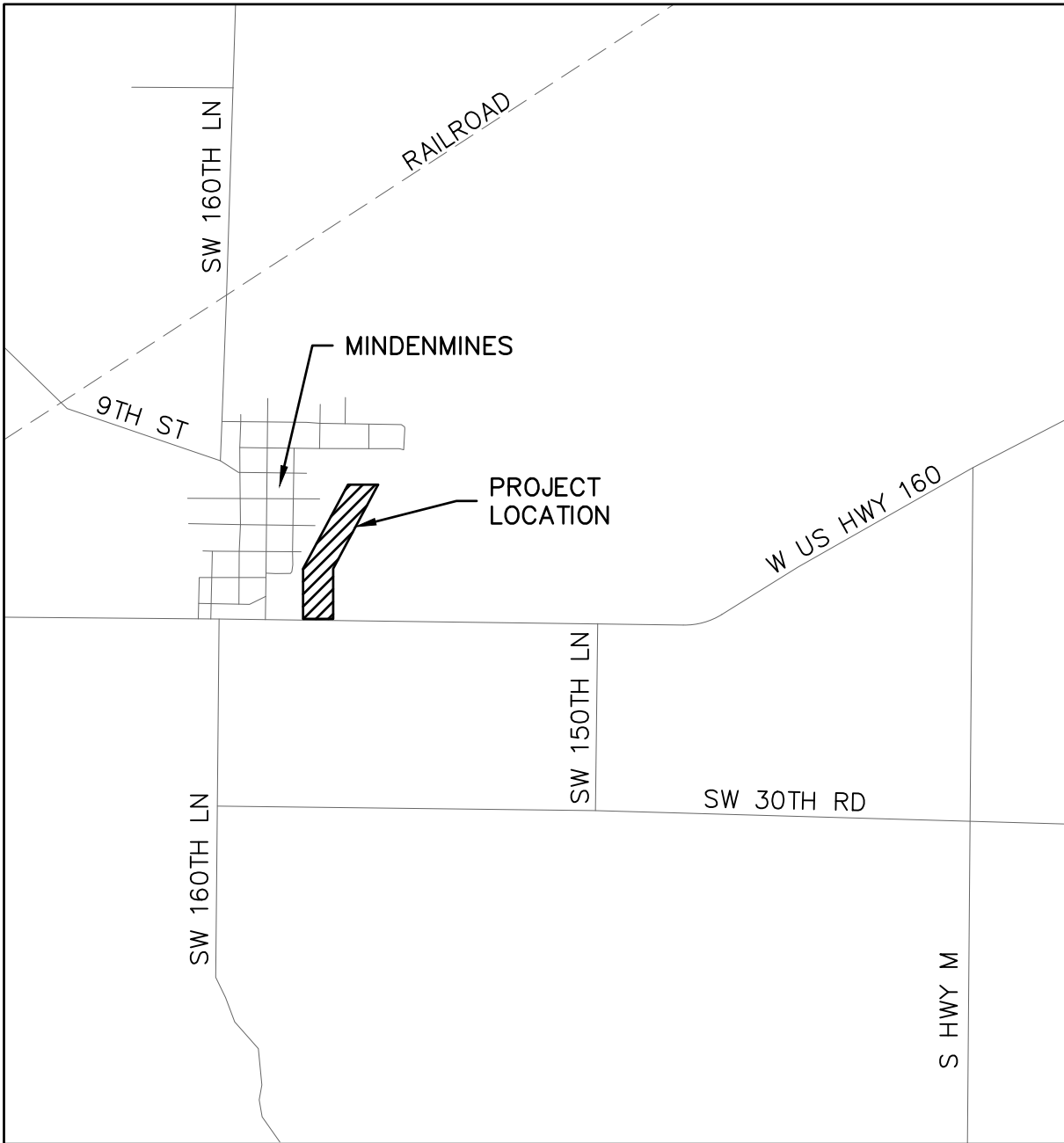
OWNER:

STATE OF MISSOURI
MICHAEL L. KEHOE,
GOVERNOR

DEPARTMENT OF
NATURAL RESOURCES
LAND RECLAMATION PROGRAM

PROJECT
MANAGEMENT:

OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION



VICINITY MAP
NOT TO SCALE

DESIGNER:

SHAUN McCONNAUGHEY, P.E.
PHONE: 417-781-0643
EMAIL: SMCCONNAUGHEY@OLSSON.COM

OLSSON, INC.
1027 S. MAIN STREET
SUITE 503
JOPLIN, MO 64801



PROJECT NUMBER: Y2303-01

SHEET NUMBER:

G-100

SHEET 01 OF 17
08/01/2025

UNDERGROUND UTILITY NOTE

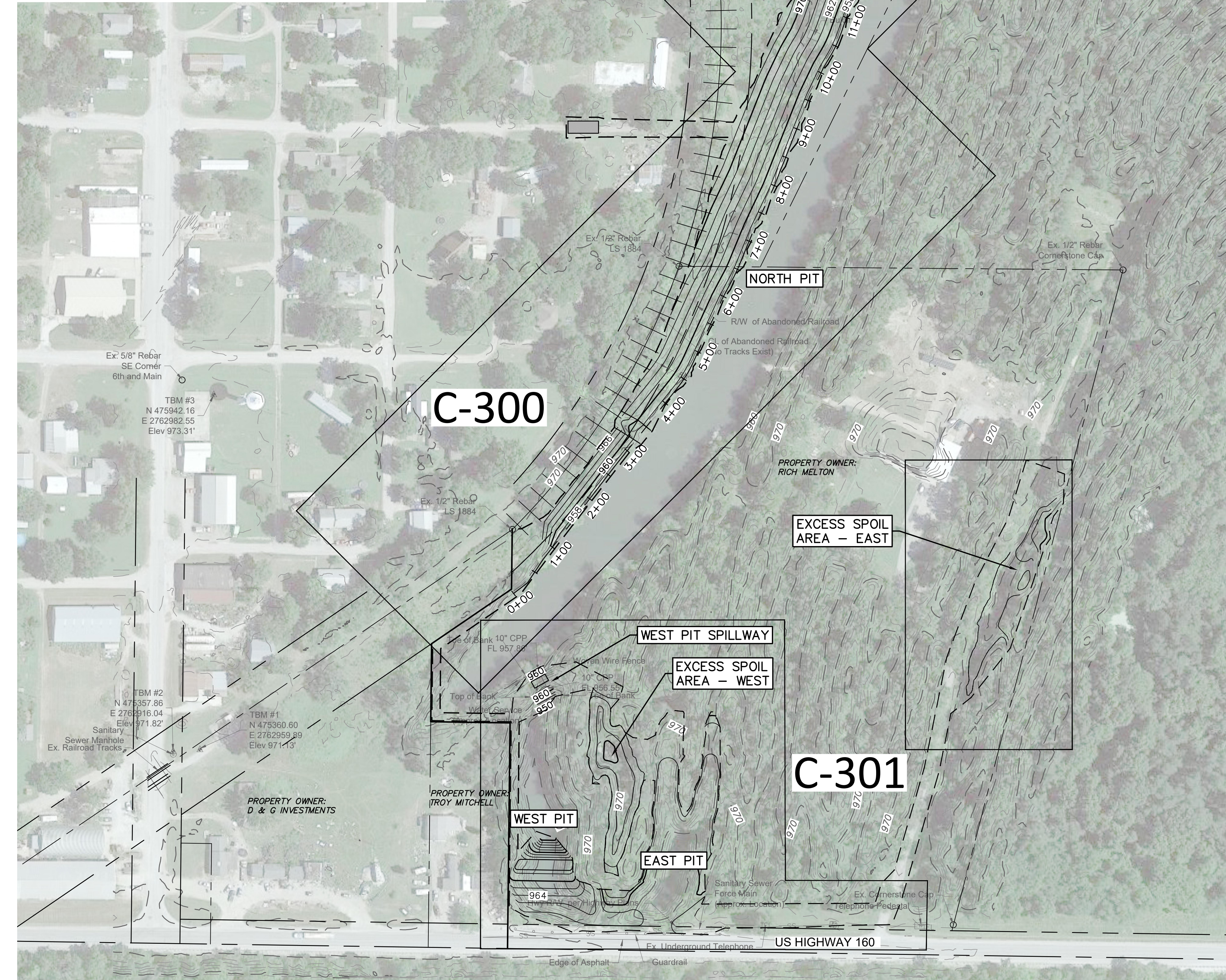
ANY UNDERGROUND FACILITIES, STRUCTURES, OR UTILITIES THAT HAVE BEEN SHOWN ARE FROM AVAILABLE RECORDS. THEREFORE, THE RELATIONSHIP BETWEEN THE NEW WORK AND THE EXISTING FACILITIES, STRUCTURES, OR UTILITIES MUST BE CONSIDERED APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL THE LOCAL AND/OR GOVERNING UTILITY COMPANIES PRIOR TO CONSTRUCTION TO DETERMINE THEIR EXACT LOCATIONS AND THE EXISTENCE OF ANY NOT SHOWN. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND THE OWNER AS TO THE RELOCATION OR REMOVAL OF ANY UTILITIES SHOWN OR NOT SHOWN.


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DWG: F:\2022\06501-07000\022-06637\40-Design\AutoCAD\Final Plans\WFRS\DWG\Y-2303-01-G-100.dwg
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LEGEND	
	TP=900.00
	GR=900.00
	FL=900.00



GENERAL NOTES:

- ALL TRAFFIC CONTROL SHALL BE IN CONFORMANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
- THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1-800-DIG-RITE", AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. !!STOP!! CALL BEFORE YOU DIG!!
- THE CONTRACTOR SHALL NOT CHANGE OR DEViate FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL PERMITS AND PAY ALL FEES AS REQUIRED BY THE CONSTRUCTION COVERED IN THESE PLANS.
- ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
- ANY ESTIMATES OF QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL QUANTITIES. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS AS SHOWN ON PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE PUBLIC ROADS IN THE VICINITY OF THE JOB SITE CLEAN AND FREE OF ROCKS, SOIL AND DEBRIS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF THE TURF AREAS AND FOR DAMAGED IMPROVEMENTS SUCH AS PAVEMENT AND UTILITIES. DAMAGED IMPROVEMENTS SHALL BE REPAIRED IN CONFORMANCE WITH THE LATEST STATE STANDARDS AND THE STATES SATISFACTION.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING BERMS, SILT FENCES, OR OTHER MEANS TO PREVENT ERODED MATERIALS FROM REACHING THE PUBLIC RIGHT-OF-WAY AND ADJACENT PROPERTIES. IN THE EVENT THE PREVENTION MEASURES ARE NOT EFFECTIVE, THE CONTRACTOR SHALL REMOVE ANY DEBRIS, SILT, OR MUD AND RESTORE THE RIGHT-OF-WAY TO ORIGINAL OR BETTER CONDITION.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DOWNSTREAM EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION. EROSION CONTROL PROCEDURES SHALL BE IN PLACE PRIOR TO BEGINNING GRADING ACTIVITIES.
- CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL EARTHWORK QUANTITIES. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS AS SHOWN ON PLANS.
- THE CONTRACTOR SHALL CLEAN OUT ALL EXISTING AND PROPOSED INLETS, PIPES AND MANHOLES OF DEBRIS AND SEDIMENTATION AT COMPLETION OF SITEWORK. THIS WORK SHALL BE DONE TO THE SATISFACTION OF THE OWNER & STATE OF MISSOURI.
- THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 4 FEET HORIZONTAL.
- THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE PLANS (APPROVED BY THE STATE OF MISSOURI) AND ONE (1) COPY OF THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE SITE AT ALL TIMES.
- ALL REFERENCES CONTAINED WITHIN THESE PLANS ARE HEREBY REFERENCED TO THE OWNER'S ENGINEER, OLSSON, INC.
- THE CONTRACTOR IS TO RETAIN FLOATABLE WIND BLOWN MATERIALS ON SITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT AN OFF-SITE FACILITY. CONTRACTOR TO CHECK ADJACENT AREAS DAILY AND PICK UP CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFF-SITE.
- CONSTRUCTION ACCESS TO THE SITE SHALL BE LIMITED TO THE APPROVED TEMPORARY CONSTRUCTION ENTRANCE(S) AS SHOWN ON SHEET C-202 & C-203.
- EROSION CONTROL DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PERIOD AS SHOWN IN THE PHASING CHARTS IN THE SEDIMENT AND EROSION CONTROL PLANS.
- THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ANY EXISTING STREET, CURB AND GUTTER, SIDEWALK AND DRIVEWAYS UNLESS SHOWN TO BE REMOVED.
- ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE APPROVED SEDIMENT AND EROSION CONTROL PLAN (SECP).
- THE CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LINES AND GRADES OF EXISTING UTILITIES PRIOR TO THE CONSTRUCTION OF IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF A DISCREPANCY BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS.
- CONTRACTOR SHALL UTILIZE PRIVATE UTILITY LOCATOR TO LOCATE AND MARK EXISTING UTILITIES WITHIN THE PROJECT AREA. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS AND COORDINATION ASSOCIATED WITH THIS.

CONTROL INFORMATION:

MISSOURI COORDINATE SYSTEM 1983 WEST ZONE
GEOID 18

TBM #1: SET 5/8" PIN WITH CONTROL CAP LOCATED ABOUT 60' E OF CENTERLINE OF MAIN ST, 38' SW OF THE MOST WESTERLY CHAIN LINK FENCE POST, 40' W OF MOST EASTERLY FENCE POST, AND 15' NW OF GRAVEL ACCESS DRIVE FOR SANITARY SEWER PUMP STATION.

N: 475360.60
E: 2762959.89
ELEV: 971.13'

TBM #2: SET 60D NAIL 5' S OF SANITARY SEWER MANHOLE, ABOUT 44' W OF TBM #1.

N: 475357.86
E: 2762916.04
ELEV: 971.82'

TBM #3: SET CHISELED SQUARE AT NE CORNER OF CONCRETE BASKETBALL COURT, LOCATED ON SE CORNER OF 6TH ST & MAIN ST. WATER TOWER AND FIRE HYDRANT ABOUT 50' E OF CONCRETE BASKETBALL COURT.

N: 475942.16
E: 2762982.55
ELEV: 973.31'

OWNER/DEVELOPER:

MISSOURI DEPARTMENT OF
NATURAL RESOURCES
P.O. BOX 176
1101 RIVER SIDE DRIVE
JEFFERSON CITY, MISSOURI 65102-0176
TELEPHONE: (573) 751-3443

FLOOD MAP

BARTON COUNTY, MISSOURI AND
INCORPORATED AREAS

COMMUNITY PANEL NUMBER
29011C0275D

EFFECTIVE DATE:
MARCH 17, 2011

PREPARED BY:

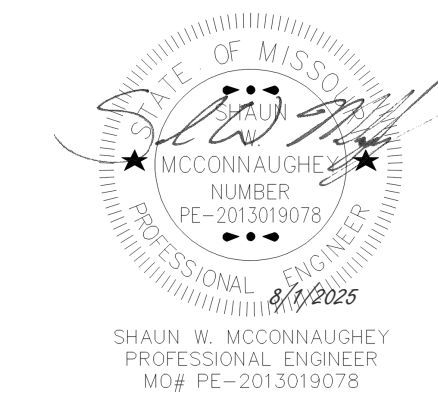
OLSSON, INC.
CONTACT: SHAUN McCONNAUGHEY
1027 S. MAIN STREET, SUITE 503
JOPLIN, MO 64801
TELEPHONE: (417) 781-0643

CONTOUR INFORMATION

EXISTING GRADE CONTOURS WERE DERIVED FROM 1 METER BARE EARTH LIDAR CREATED BY THE U.S. GEOLOGICAL SURVEY NATIONAL GEOSPATIAL TECHNICAL OPERATIONS CENTER IN SUPPORT OF THE 3D ELEVATION PROGRAM.
PROJECT/DATUM: UTM ZONE 15N/NAD83.

EXISTING BATHYMETRIC CONTOURS FOR THE EAST AND WEST PITS WERE ASSUMED BASED ON SOUNDING DATA PROVIDED BY THE LAND RECLAMATION PROGRAM - ABANDONED MINE LAND UNIT. EXISTING BATHYMETRIC CONTOURS FOR THE NORTH PIT ARE NOT SHOWN AS PROPOSED GRADING TAKES PLACE ABOVE THE NORMAL WATER SURFACE ELEVATION OF THE PIT.

STATE OF MISSOURI
MICHAEL L. KEHOE,
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DEPARTMENT OF
NATURAL RESOURCES
LAND RECLAMATION PROGRAM
ABANDONED MINE LAND UNIT

TUSCONIA RECLAMATION
PROJECT (Y2303-01)

LAT. 37.4718
LON. -94.85468

MINDENMINES, MO 65536

PROJECT # Y2303-01

SITE # N/A

ASSET# N/A

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 08/01/2025

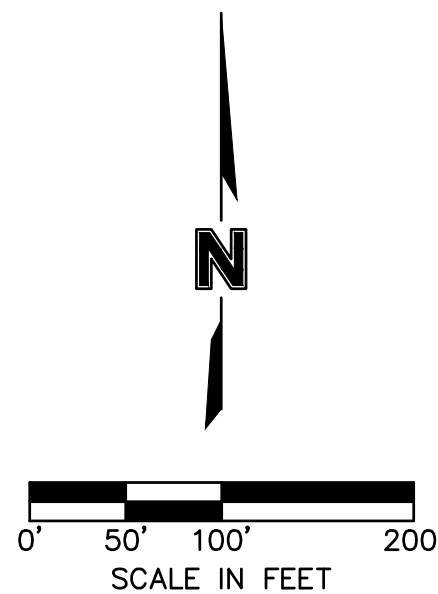
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Site Layout

SHEET NUMBER:

C-100

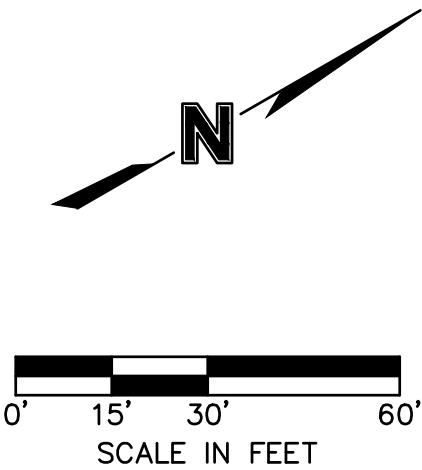
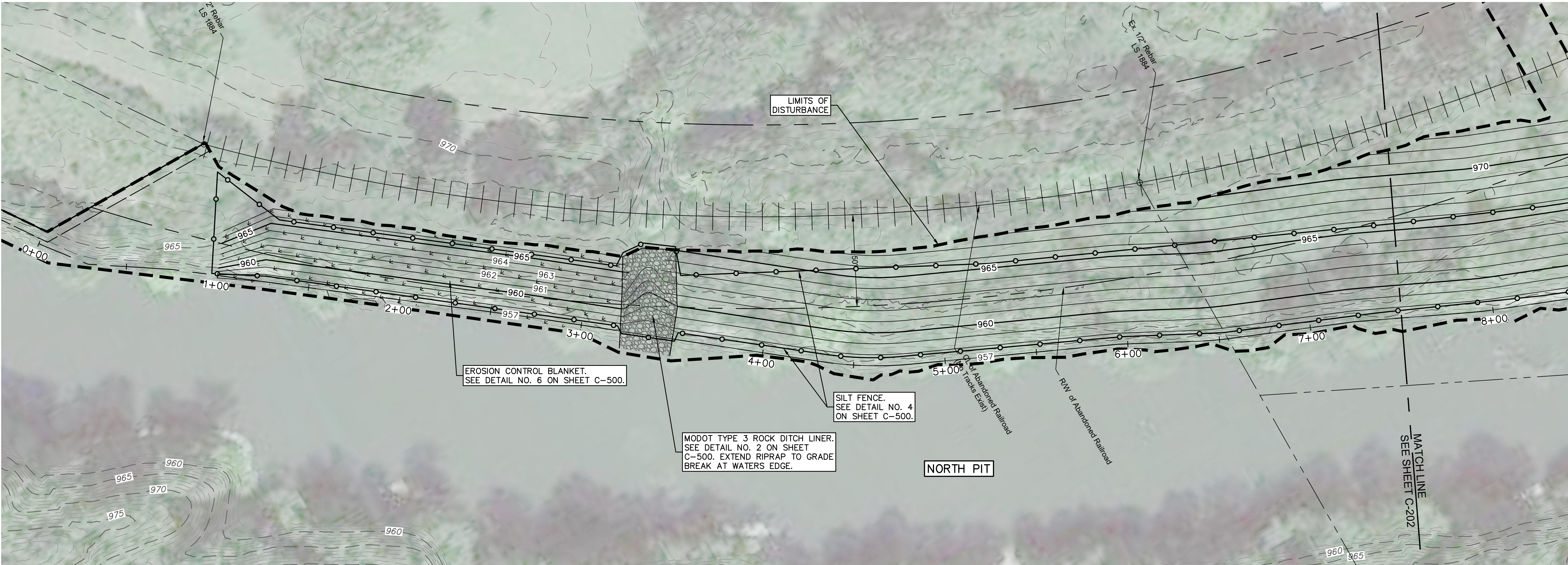
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08/01/2025



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EROSION CONTROL LEGEND	
	LIMITS OF DISTURBANCE
	SILT FENCE
	GRAVEL CONSTRUCTION ENTRANCE/EXIT
	ROCK DITCH LINING
	EROSION CONTROL BLANKET



EROSION CONTROL PHASING CHART				
PROJECT STAGE	BMP PLAN REF. #	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
A - PRE-CONSTRUCTION	A1	CONSTRUCTION ENTRANCE/EXIT	C3	SEE DETAIL NO. 3 ON SHEET C-500
B - GRADING	B1	SILT FENCE	C3	SEE DETAIL NO. 4 ON SHEET C-500
C - SURFACE RESTORATION	C1	ROCK DITCH LINER	N/A	SEE DETAIL NO. 2 ON SHEET C-500
	C2	EROSION CONTROL BLANKET	N/A	INSTALL PRIOR TO SEEDING. SEE DETAIL NO. 6 ON SHEET C-500
	C3	PLACE TOPSOIL, INSTALL SEED, MULCH, HYDROSEED, LANDSCAPE	N/A	ESTABLISH PERENNIAL VEGETATION WITH A 70% DENSITY OVER 100% OF DISTURBED AREA. SEE GRADING PLAN ON SHEET C-300.

STATE OF MISSOURI
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GOVERNOR



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ABANDONED MINE LAND UNIT

TUSCONIA RECLAMATION
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LAT. 37.4718
LON. -94.85468

MINDENMINES, MO 65536

PROJECT # Y2303-01
SITE # N/A
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REVISION: _____
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DATE: _____

ISSUE DATE: 08/01/2025

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CHECKED BY: SWM
DESIGNED BY: SWM

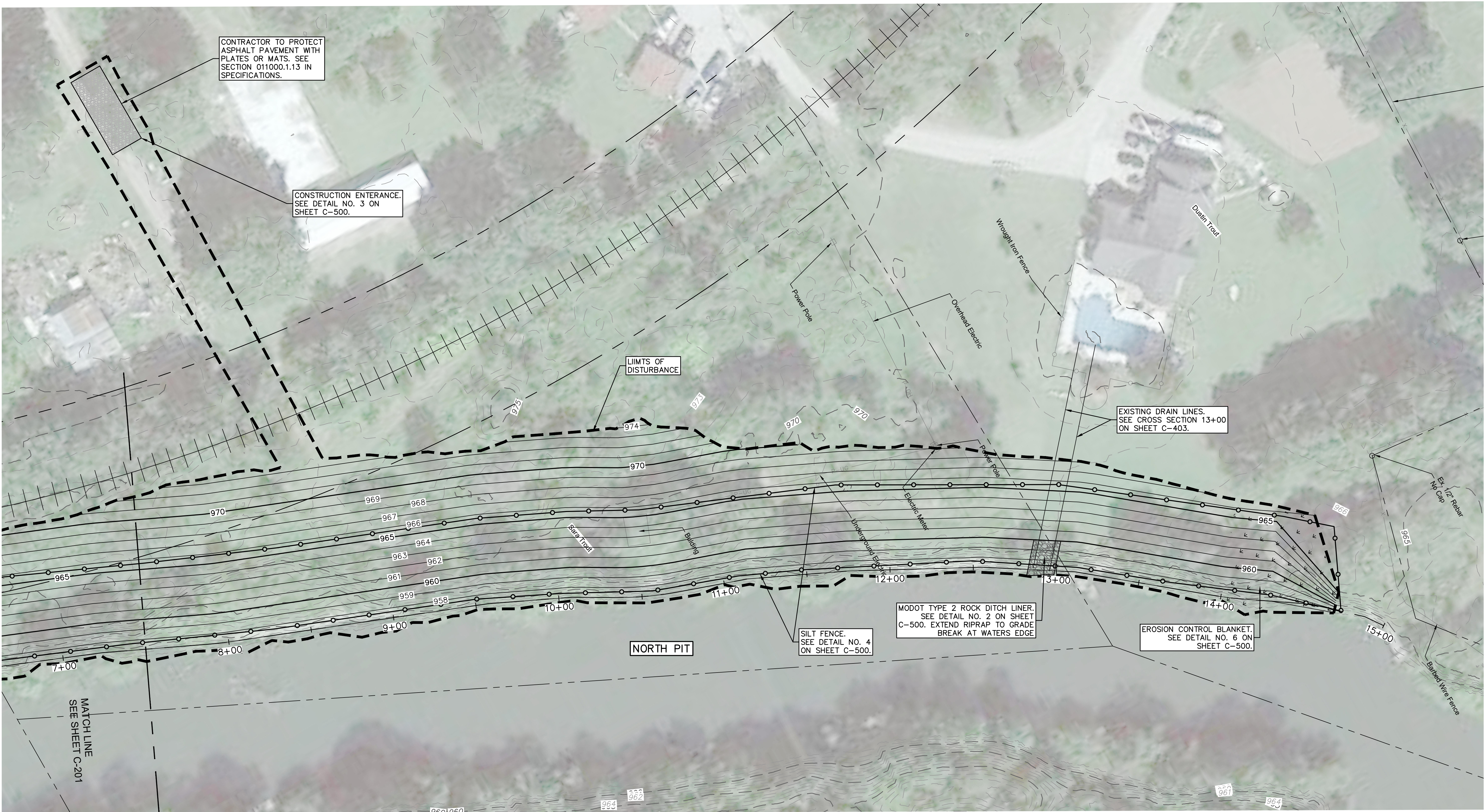
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Sediment & Erosion
Control Plan - North
Pit (0+00 - 8+00)

SHEET NUMBER:

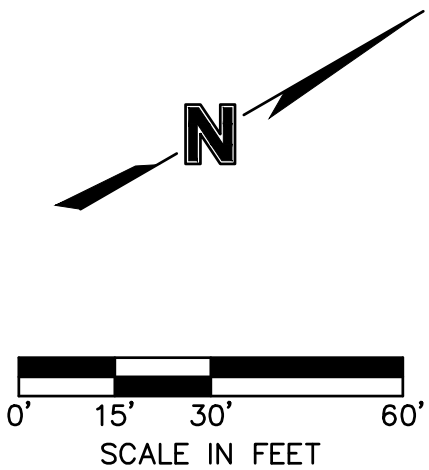
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EROSION CONTROL PHASING CHART				
PROJECT STAGE	BMP PLAN REF. #	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
A - PRE-CONSTRUCTION	A1	CONSTRUCTION ENTRANCE/EXIT	C3	SEE DETAIL NO. 3 ON SHEET C-500
B - GRADING	B1	SILT FENCE	C3	SEE DETAIL NO. 4 ON SHEET C-500
C - SURFACE RESTORATION	C1	ROCK DITCH LINER	N/A	SEE DETAIL NO. 2 ON SHEET C-500
	C2	EROSION CONTROL BLANKET	N/A	INSTALL PRIOR TO SEEDING. SEE DETAIL NO. 6 ON SHEET C-500
	C3	PLACE TOPSOIL, INSTALL SEED, MULCH, HYDROSEED, LANDSCAPE	N/A	ESTABLISH PERENNIAL VEGETATION WITH A 70% DENSITY OVER 100% OF DISTURBED AREA. SEE GRADING PLAN ON SHEET C-300.

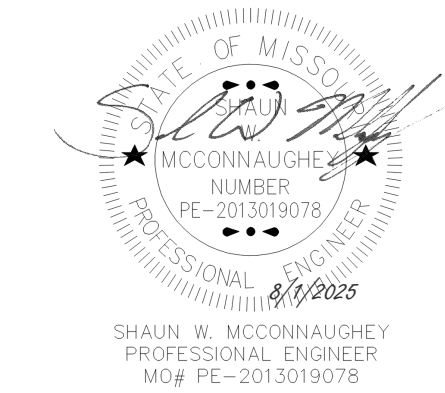


EROSION CONTROL LEGEND

- LIMITS OF DISTURBANCE
- SILT FENCE
- [Gravel Pattern] GRAVEL CONSTRUCTION ENTRANCE/EXIT
- [Rock Pattern] ROCK DITCH LINING
- [Stippled Pattern] EROSION CONTROL BLANKET



STATE OF MISSOURI
MICHAEL L. KEHOE,
GOVERNOR



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DEPARTMENT OF
NATURAL RESOURCES
LAND RECLAMATION PROGRAM
ABANDONED MINE LAND UNIT

TUSCONIA RECLAMATION
PROJECT (Y2303-01)

LAT. 37.4718
LON. -94.85468

MINDENMINES, MO 65536

PROJECT # Y2303-01
SITE # N/A
ASSET# N/A

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 08/01/2025

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Sediment & Erosion
Control Plan - North
Pit (8+00 - 15+00)

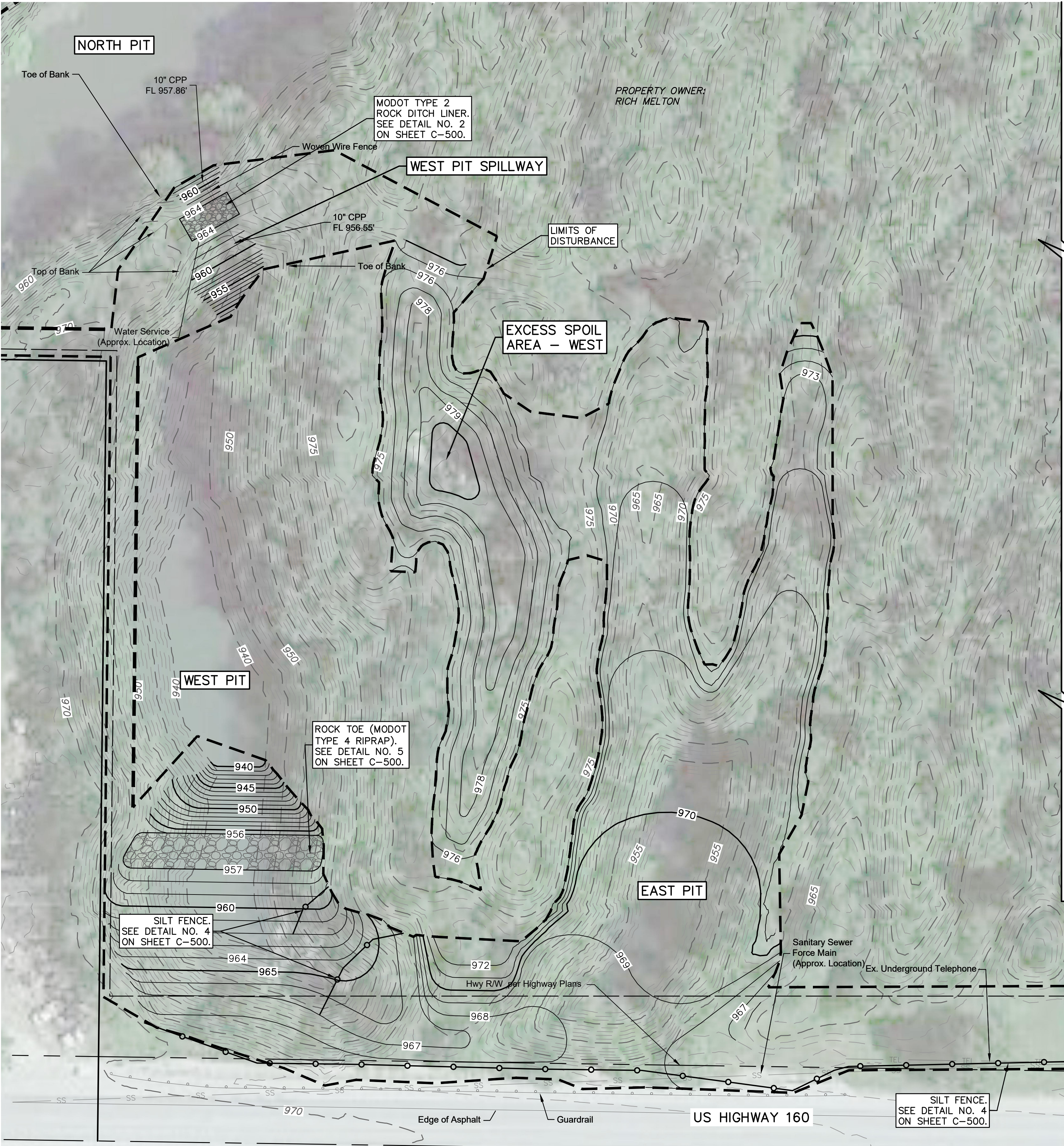
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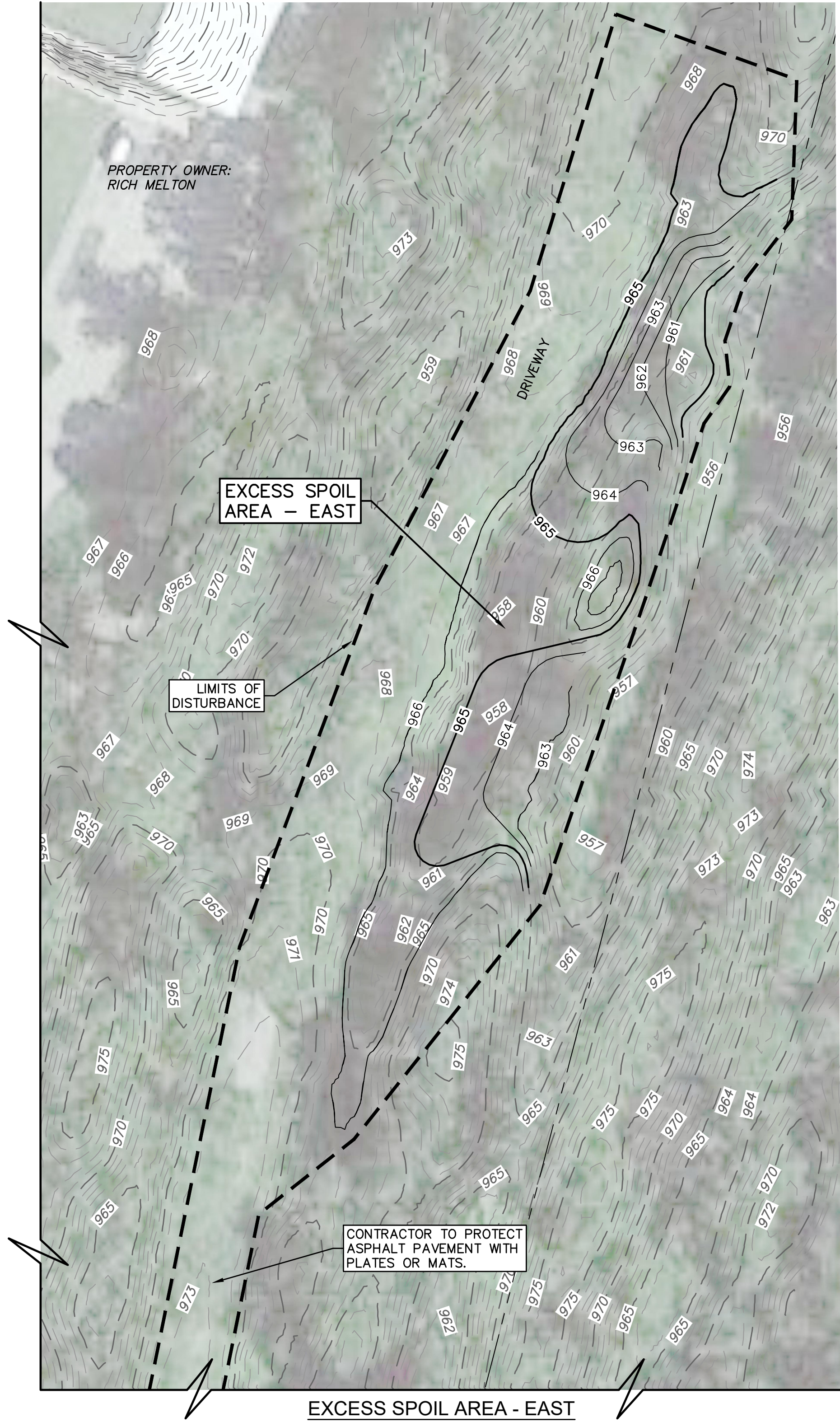
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EROSION CONTROL PHASING CHART

PROJECT STAGE	BMP PLAN REF. #	BMP DESCRIPTION	REMOVE AFTER STAGE	NOTES:
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B – GRADING	B1	SILT FENCE	C3	SEE DETAIL NO. 4 ON SHEET C-500
C – SURFACE RESTORATION	C1	ROCK DITCH LINER	N/A	SEE DETAIL NO. 2 ON SHEET C-500
	C2	EROSION CONTROL BLANKET	N/A	INSTALL PRIOR TO SEEDING. SEE DETAIL NO. 6 ON SHEET C-500
	C3	PLACE TOPSOIL, INSTALL SEED, MULCH, HYDROSEED, LANDSCAPE	N/A	ESTABLISH PERENNIAL VEGETATION WITH A 70% DENSITY OVER 100% OF DISTURBED AREA. SEE GRADING PLAN ON SHEET C-301.



EAST & WEST PIT



EROSION CONTROL LEGEND

- LIMITS OF DISTURBANCE
- SILT FENCE
- Gravel Construction Entrance/Exit
- Rock Toe
- Rock Ditch Lining



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MINDENMINES, MO 65536

PROJECT # Y2303-01
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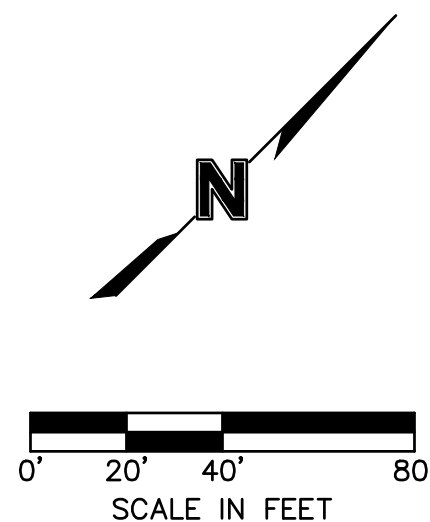
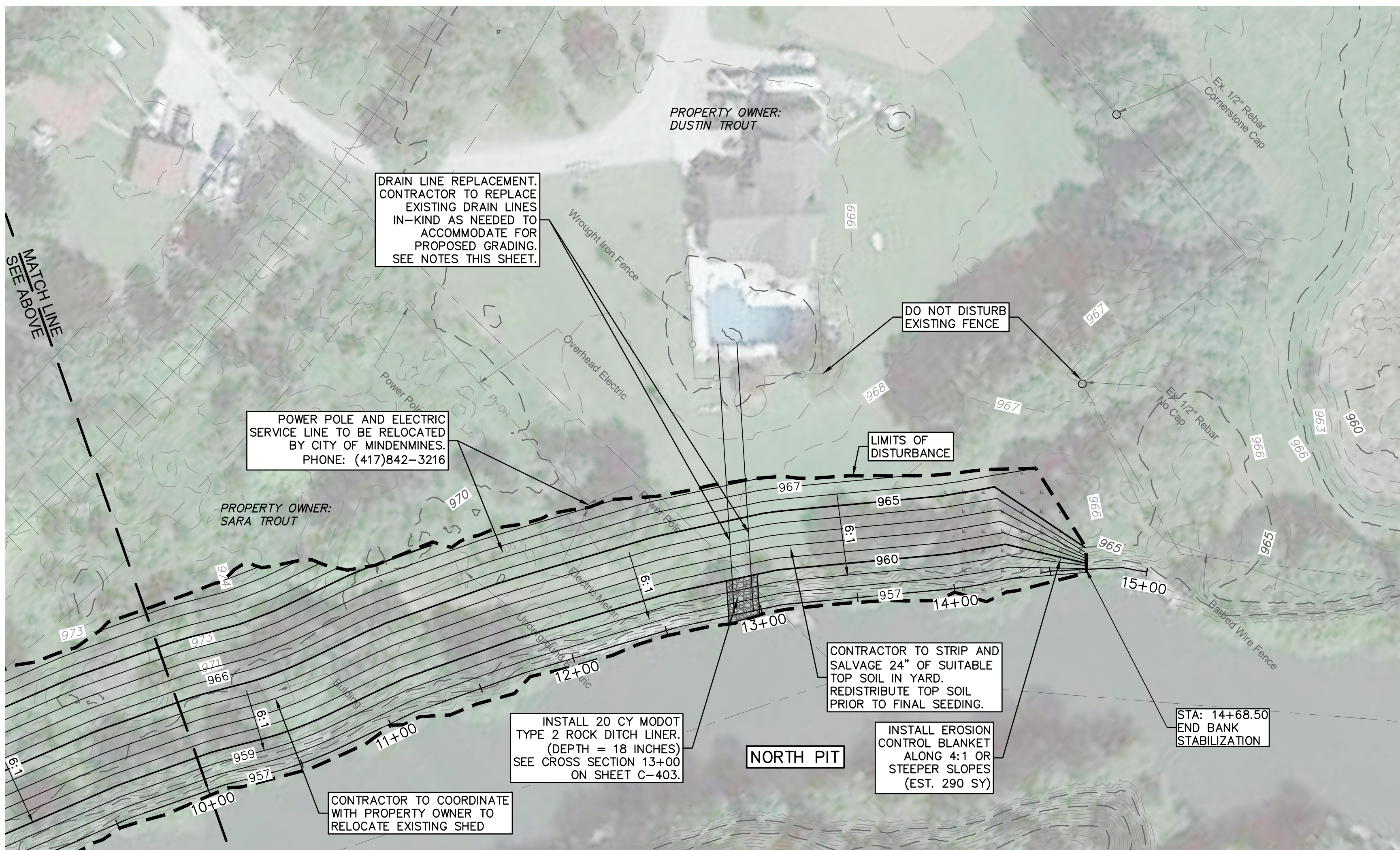
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DESIGNED BY: SWM

SHEET TITLE:
Sediment & Erosion
Control Plan - East &
West Pit

SHEET NUMBER:

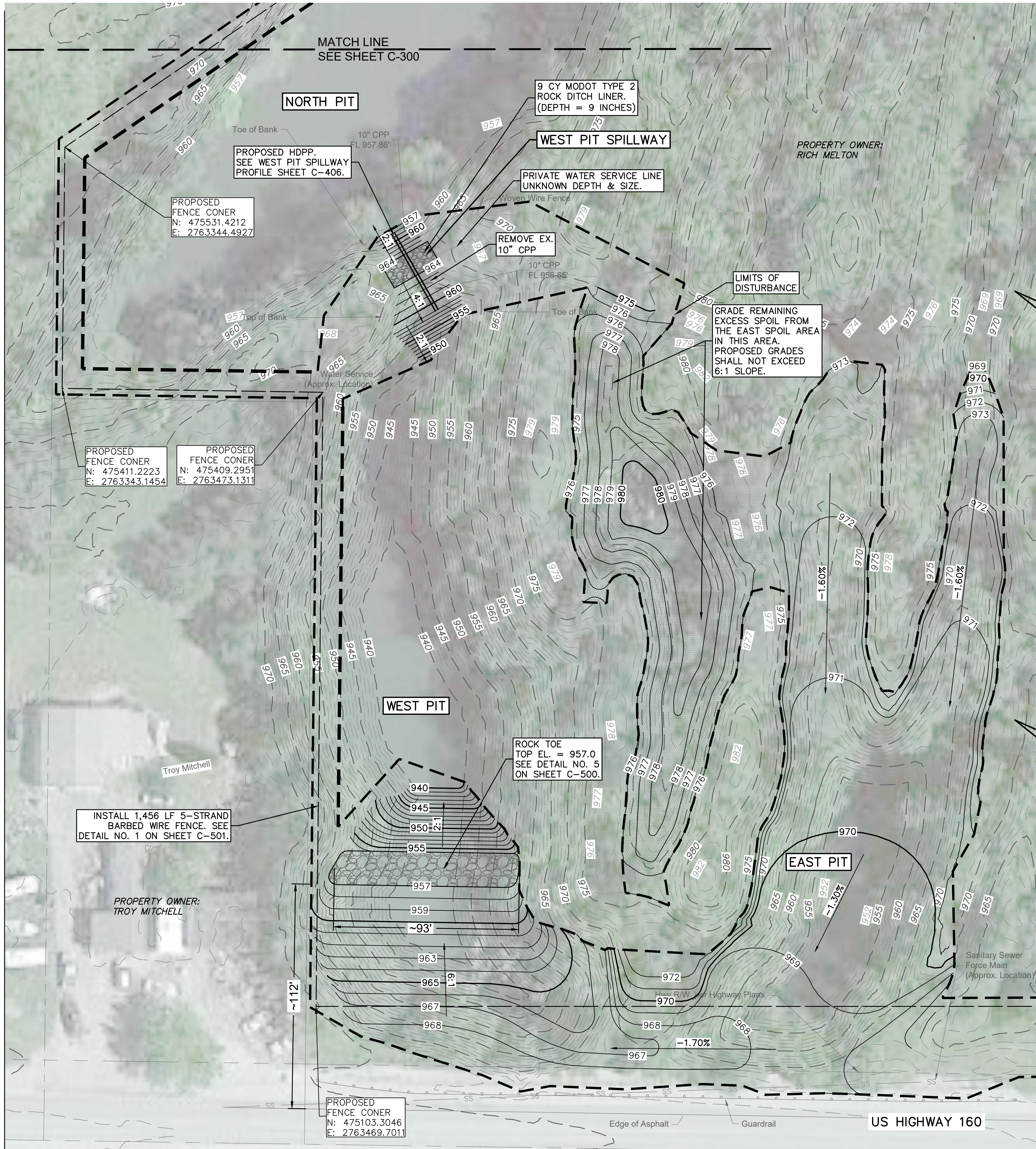
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SHEET 06 OF 17
08/01/2025

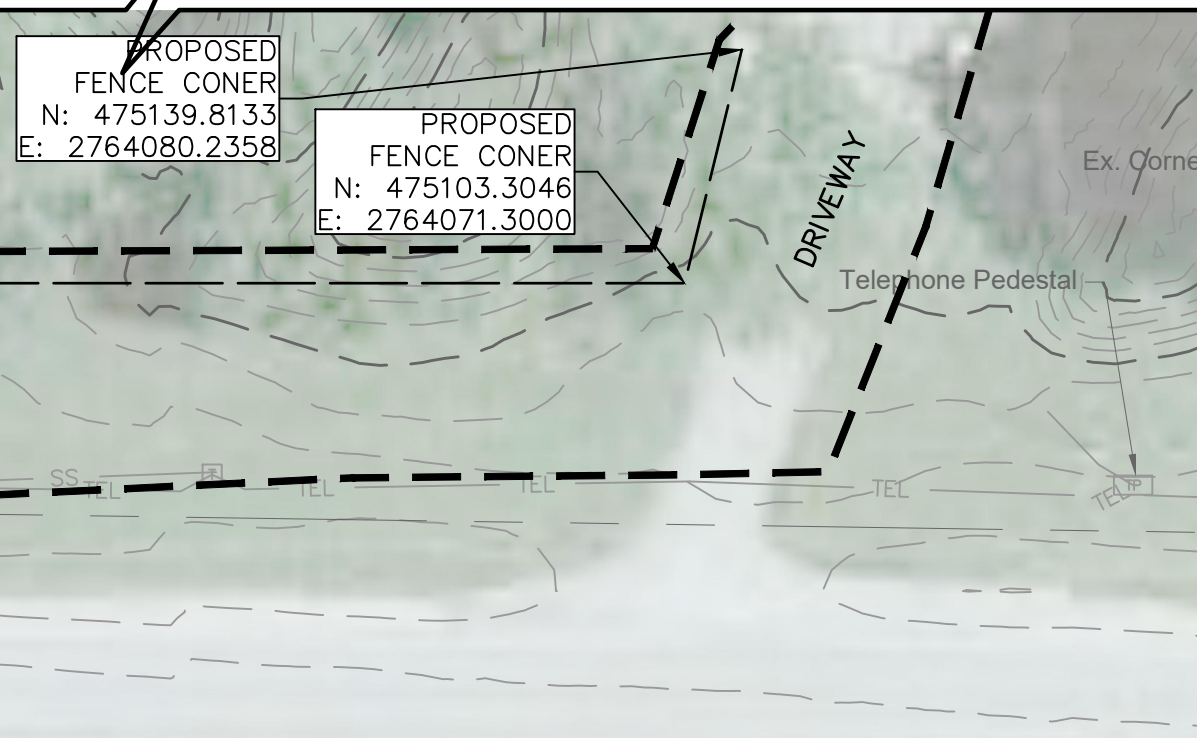
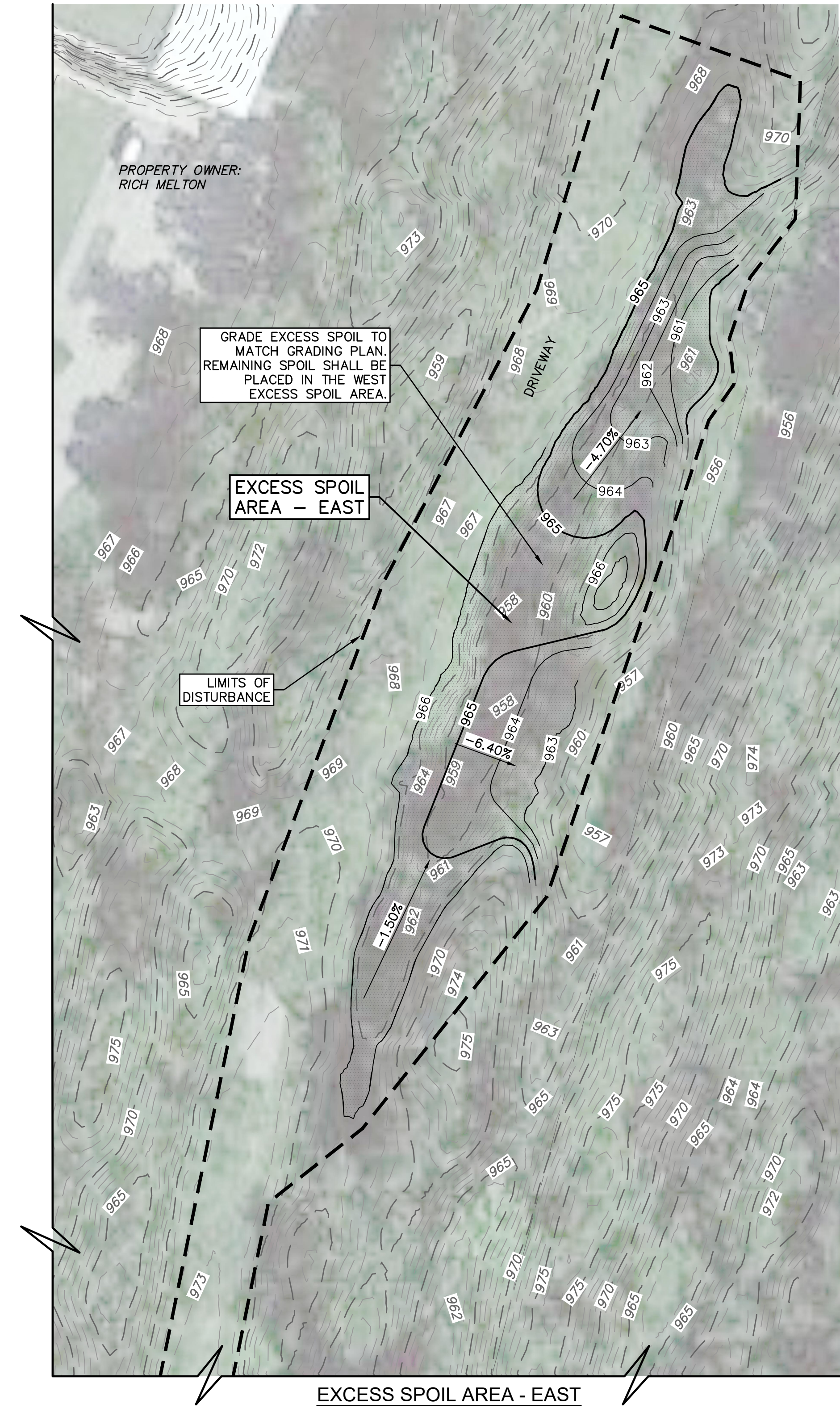
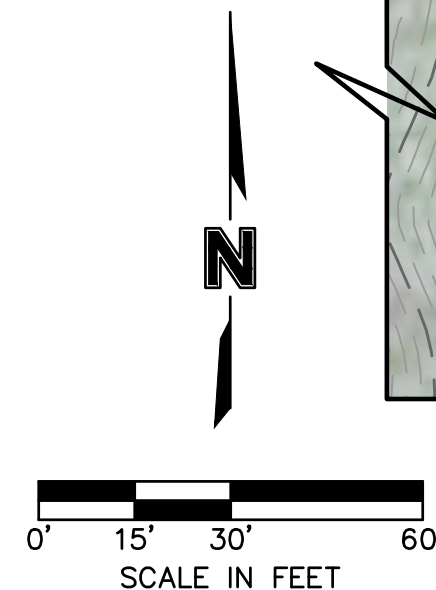


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DATE: USER: wjohnson2 Y-2303-01-C-SP-01

LEGEND	
	ROCK DITCH LINING
	ROCK TOE
	EXCESS SPOIL AREA
	LIMITS OF DISTURBANCE
	EXISTING 5' CONTOUR
	EXISTING 1' CONTOUR
	PROPOSED 5' CONTOUR
	PROPOSED 1' CONTOUR
	EXISTING OVERHEAD POWER LINE
	EXISTING FENCE
	PROPOSED BARBED WIRE FENCE

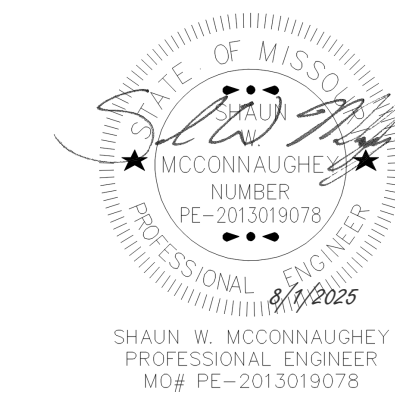


EAST & WEST PIT



MISSOURI
ONE CALL SYSTEM
1-800-DIG-RITE or 811
www.motcall.com

STATE OF MISSOURI
MICHAEL L. KEHOE,
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ABANDONED MINE LAND UNIT

TUSCONIA RECLAMATION
PROJECT (Y2303-01)

LAT. 37.4718
LON. -94.85468

MINDENMINES, MO 65536

PROJECT # Y2303-01
SITE # N/A
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REVISION: _____
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DATE: _____
ISSUE DATE: 08/01/2025

CAD DWG FILE: Y-2303-01-C-300.dwg
DRAWN BY: EGP
CHECKED BY: SWM
DESIGNED BY: SWM

SHEET TITLE:
Grading Plan - East &
West Pit

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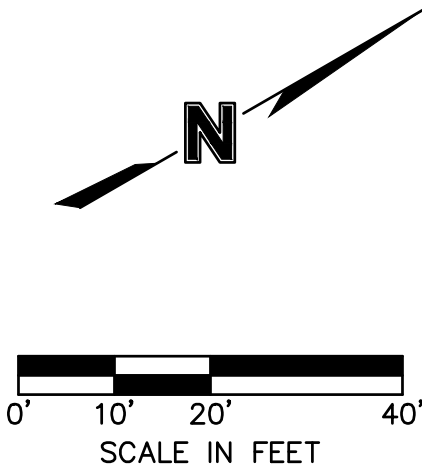
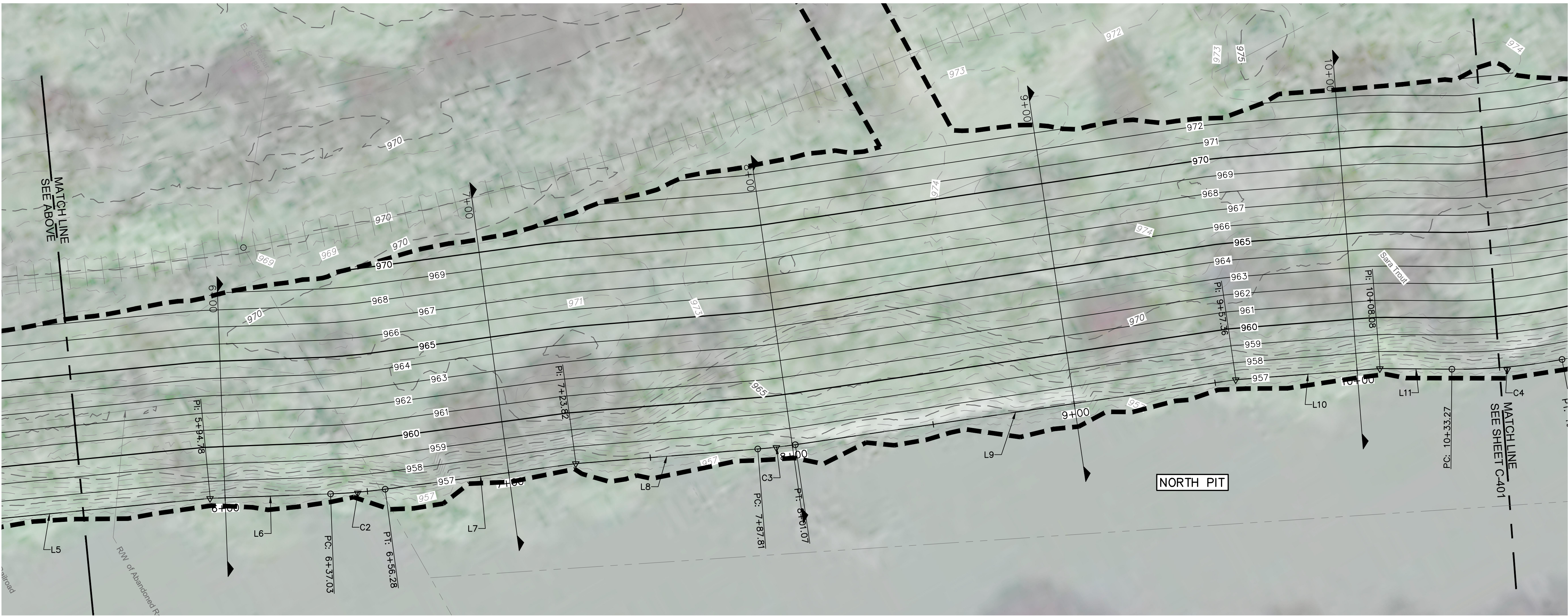
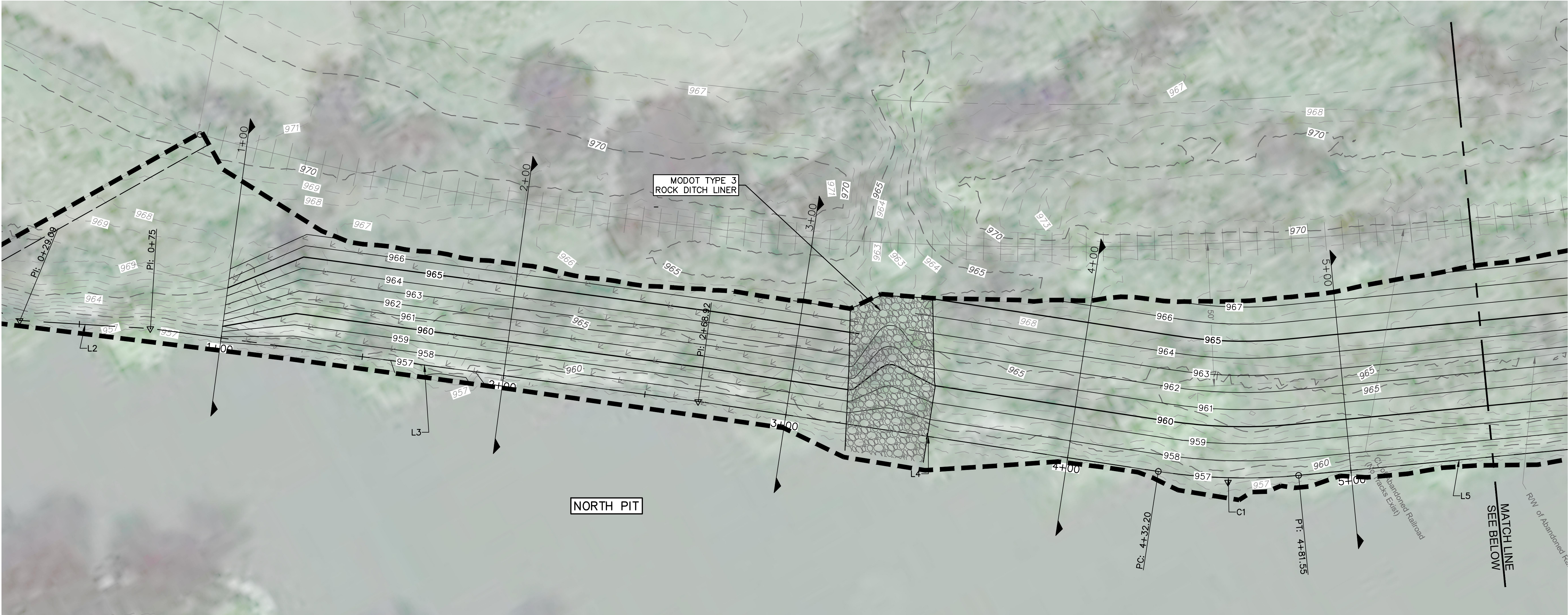
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SHEET 08 OF 17
08/01/2025

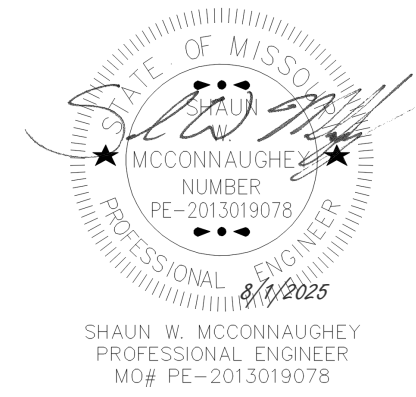
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DEPARTMENT OF
NATURAL RESOURCES
LAND RECLAMATION PROGRAM
ABANDONED MINE LAND UNIT

TUSCONIA RECLAMATION
PROJECT (Y2303-01)

LAT. 37.4718
LON. -94.85468

MINDENMINES, MO 65536

PROJECT # Y2303-01
SITE # N/A
ASSET# N/A

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 08/01/2025

CAD DWG FILE: Y-2303-01-C-400.dwg
DRAWN BY: EGP
CHECKED BY: SWM
DESIGNED BY: SWM

SHEET TITLE:
Cross Section Plan -
North Pit (0+00 -
10+50)

SHEET NUMBER:

C-400

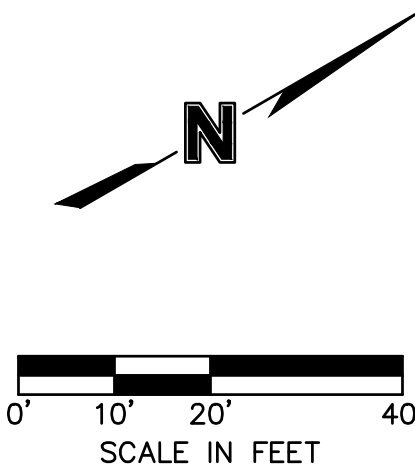
SHEET 09 OF 17
08/01/2025

**DEPARTMENT OF
NATURAL RESOURCES
LAND RECLAMATION PROGRAM
ABANDONED MINE LAND UNIT**

SITE #	N/A
ASSET#	N/A

ISSUE DATE: 08/01/2025

SHEET 10 OF 17
08/01/2025

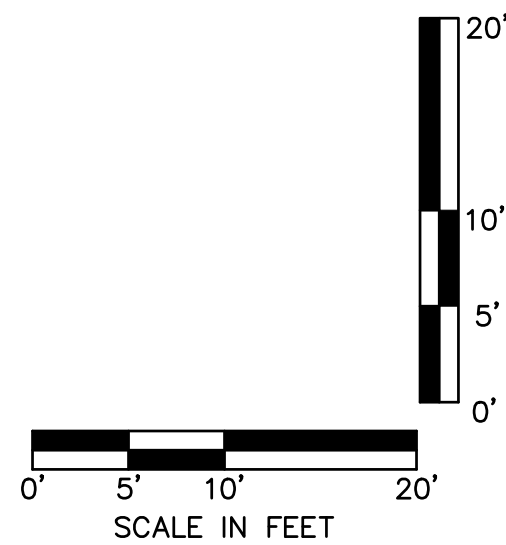
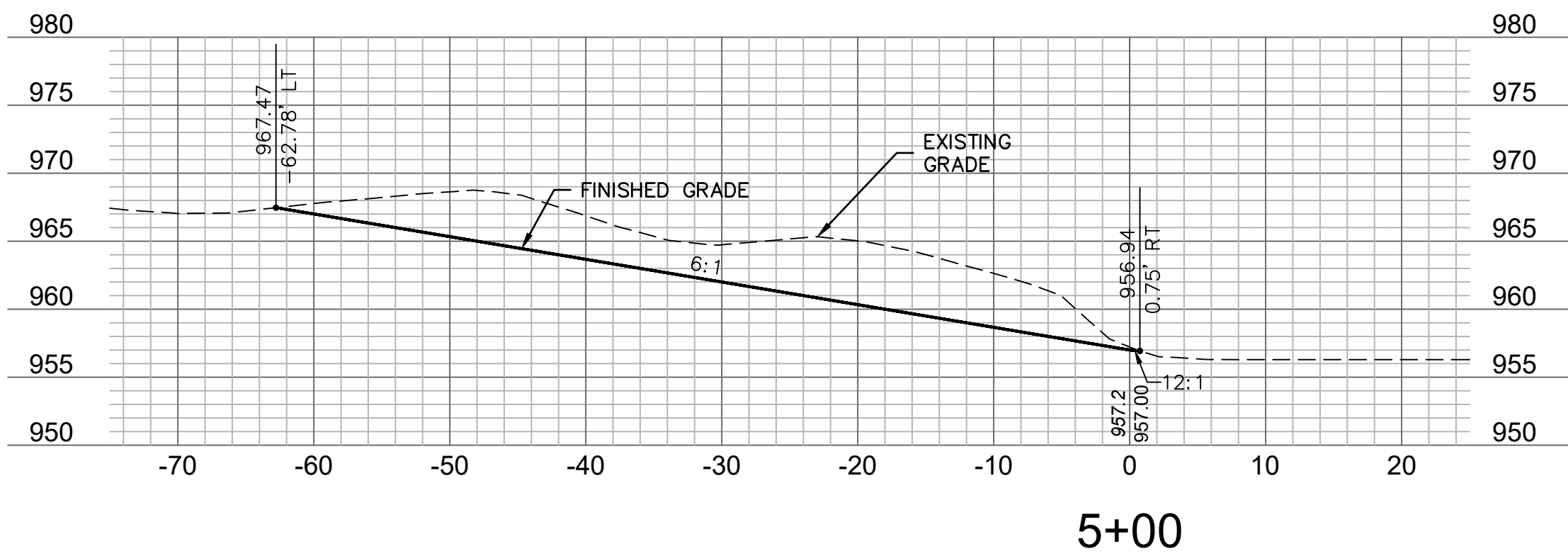
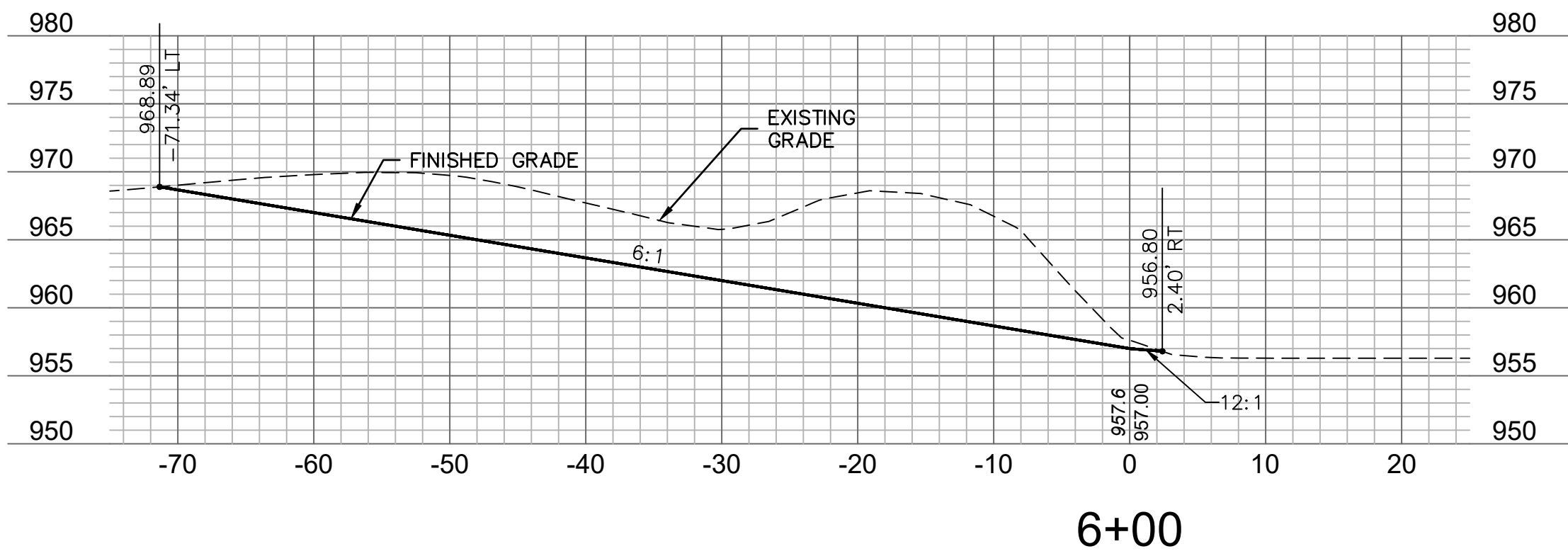
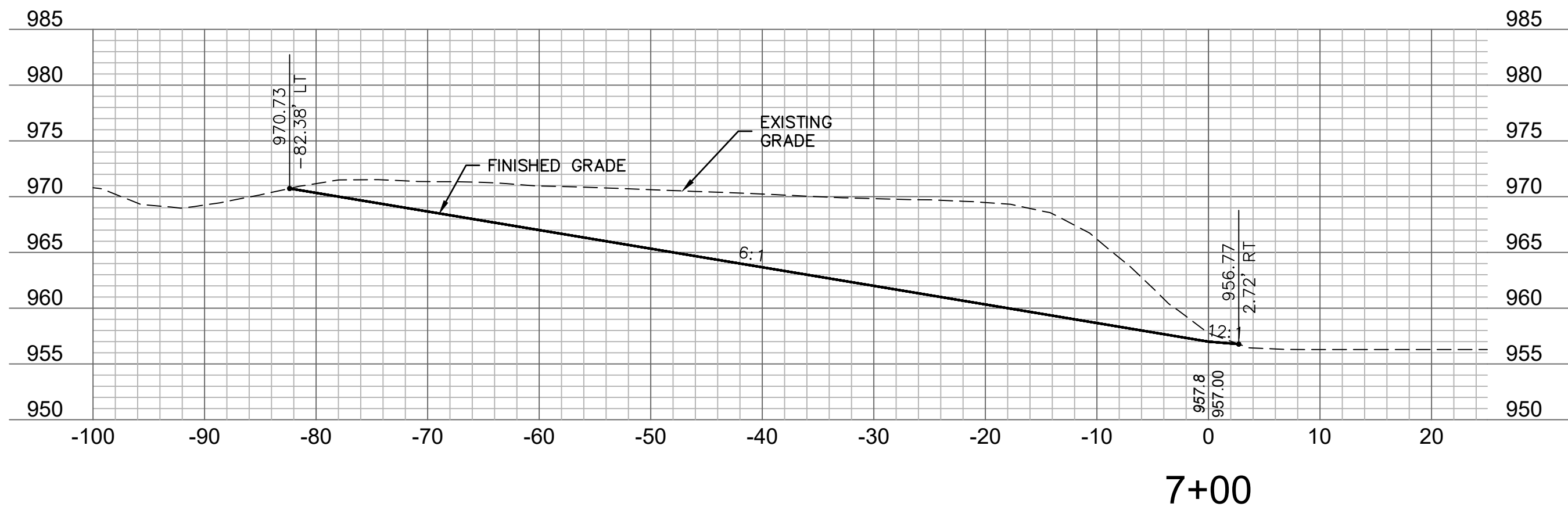
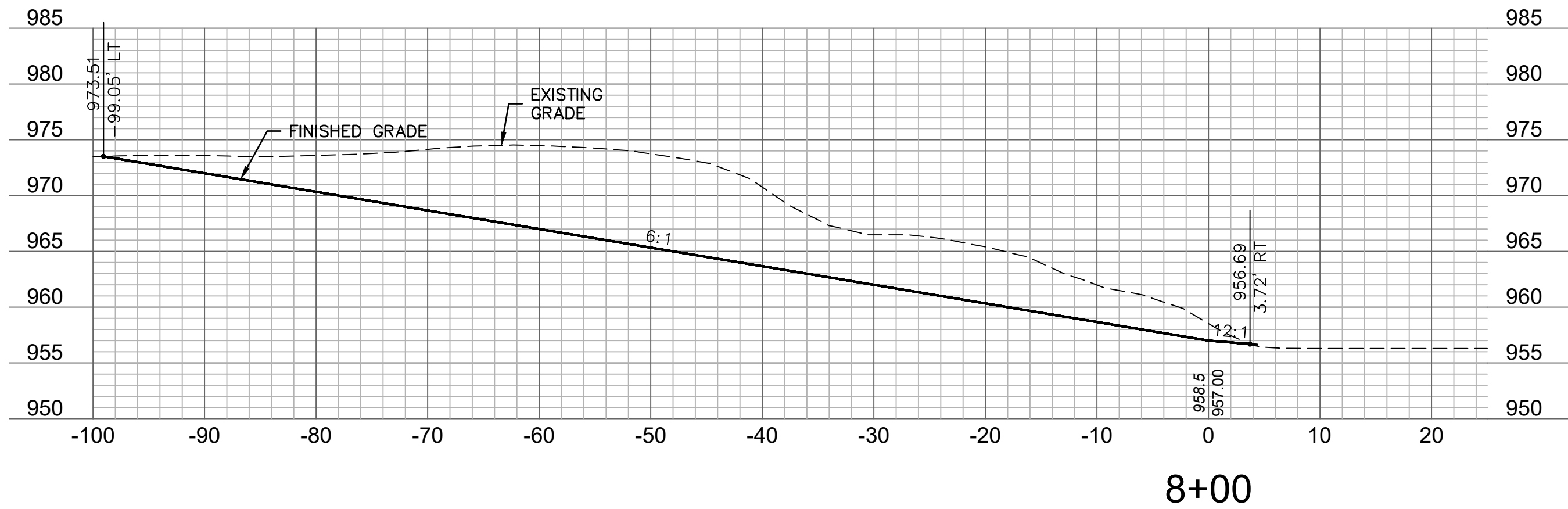
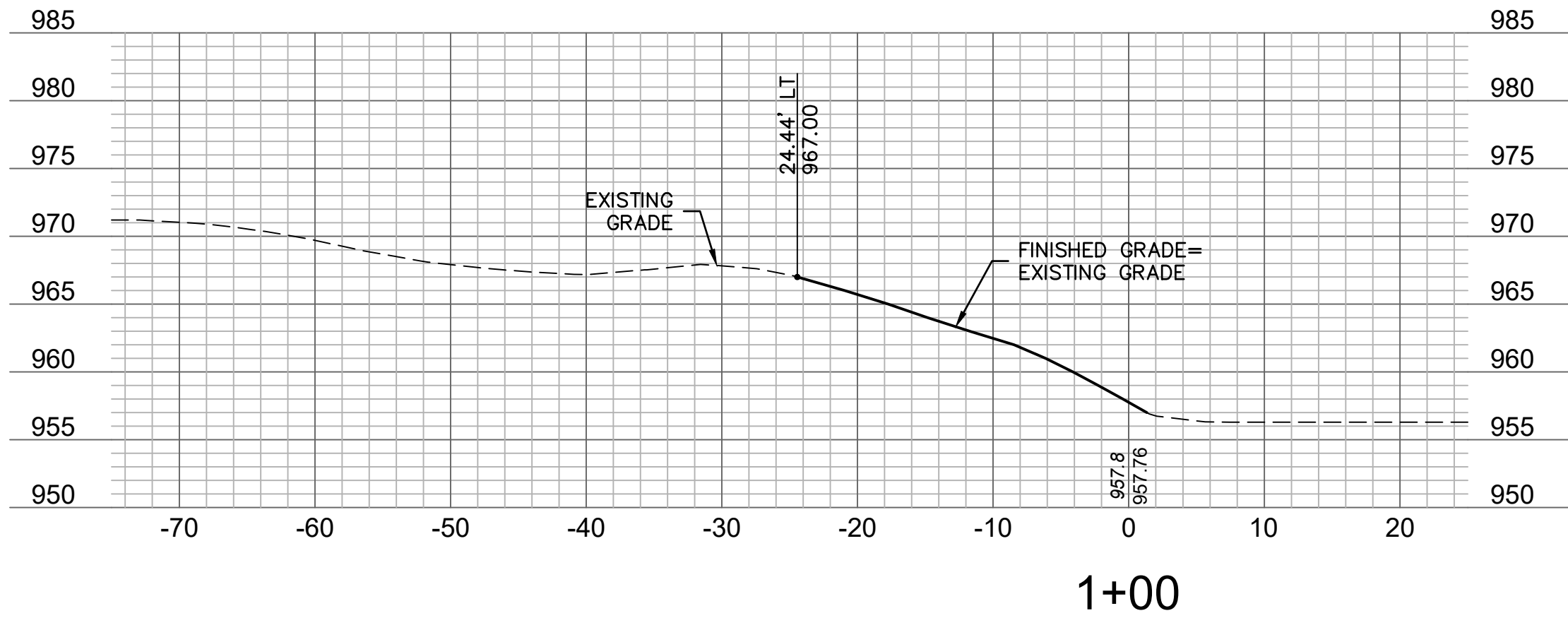
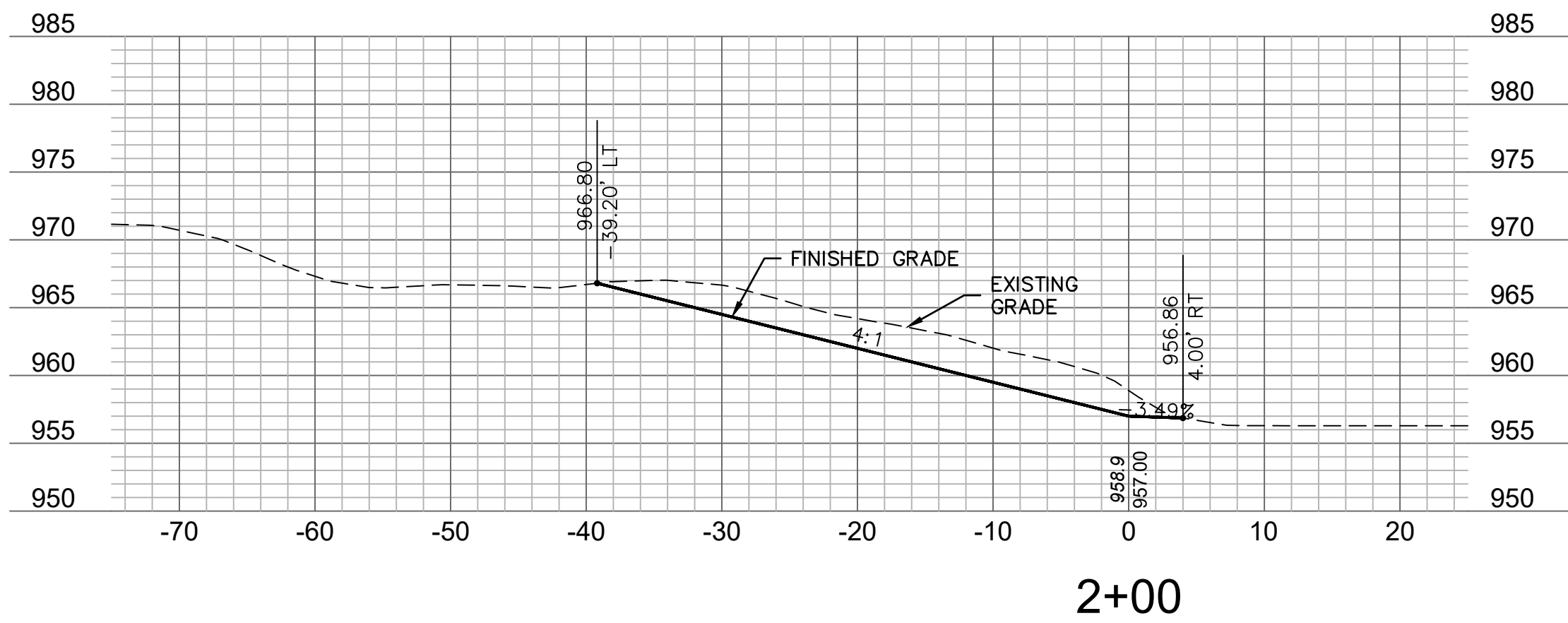
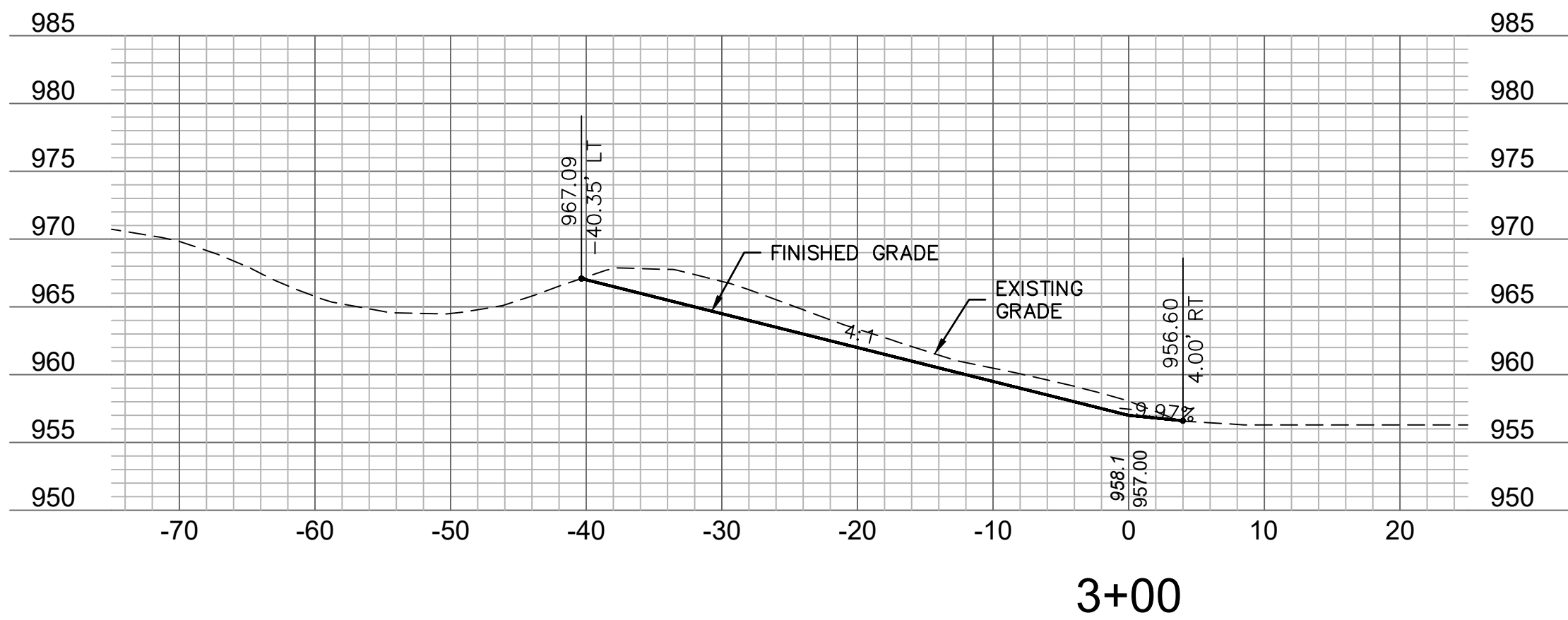
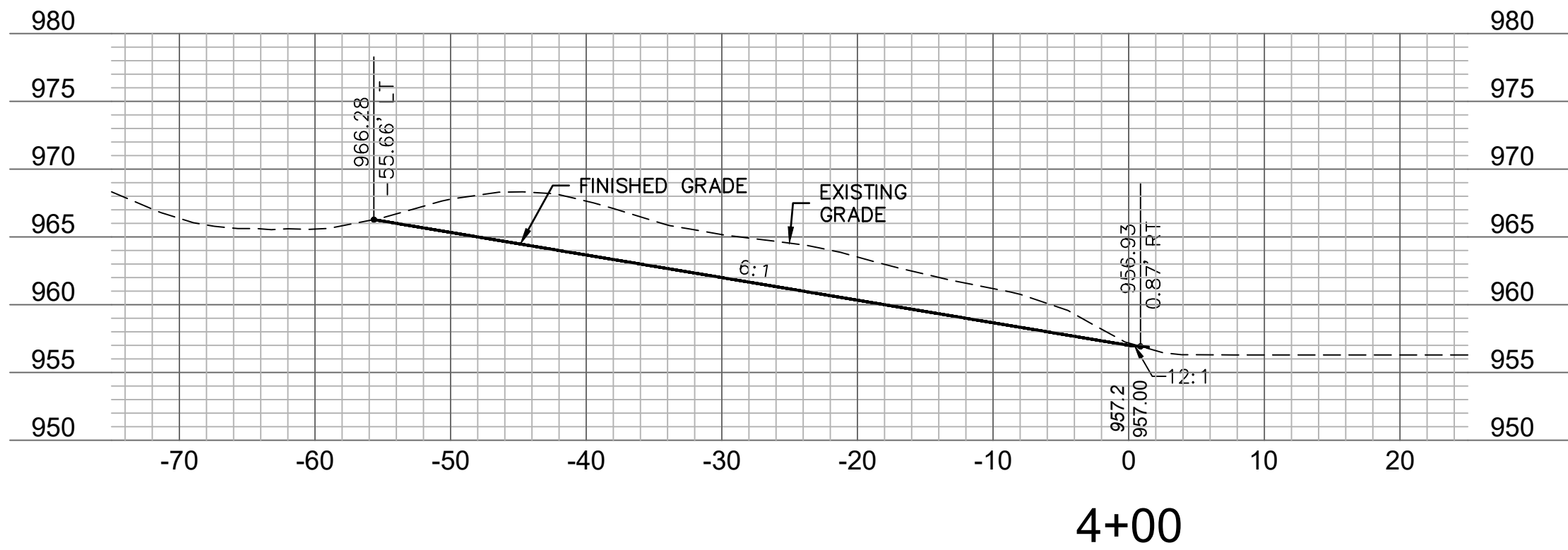


STREAMBANK STABILIZATION									
NO.		STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING	DELTA	TANGENT	RADIUS
C5	PC= PI= PT=	13+95.47 14+04.94 14+14.39	476810.6598 476817.9445 476825.7674	2764172.7418 2764178.7846 2764184.1125	18.92'	N36°58'01"E	5'25"08"	9.46'	200.00'
L17		14+14.39 14+50.92	476825.7674 476855.9631	2764184.1125 2764204.6779	36.53'	N34°15'27"E			
L18		14+50.92 14+87.39	476855.9631 476882.9544	2764204.6779 2764229.2021	36.47'	N42°15'29"E			
L19		14+87.39 15+00.00	476882.9544 476890.1051	2764229.2021 2764239.5931	12.61'	N55°27'56"E			

Y-2303-01-C-SP-01

USER: wjohnson2
Y-2303-01-C-XP-02

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ABANDONED MINE LAND UNIT

TUSCONIA RECLAMATION
PROJECT (Y2303-01)

LAT. 37.4718
LON. -94.85468

MINDENMINES, MO 65536

PROJECT # Y2303-01
SITE # N/A
ASSET# N/A

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 08/01/2025

CAD DWG FILE: Y-2303-01-C-400.dwg
DRAWN BY: EGP
CHECKED BY: SWM
DESIGNED BY: SWM

SHEET TITLE:
Cross Sections - North
Pit (0+00 - 8+00)

SHEET NUMBER:

C-402

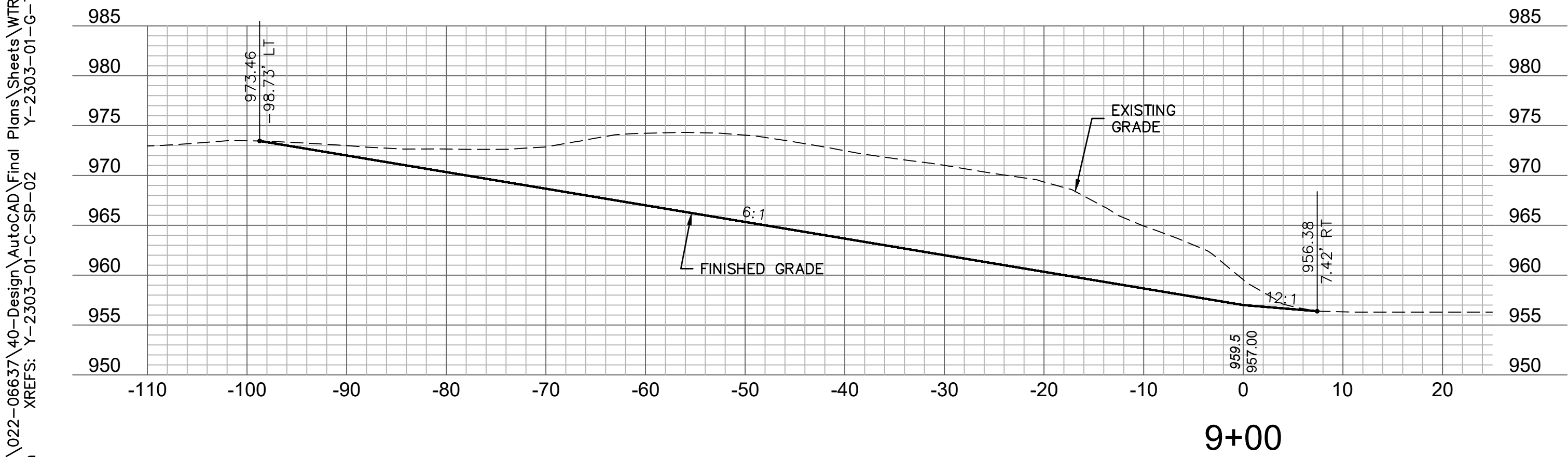
SHEET 11 OF 17
08/01/2025

Y-2303-01-C-SP-01

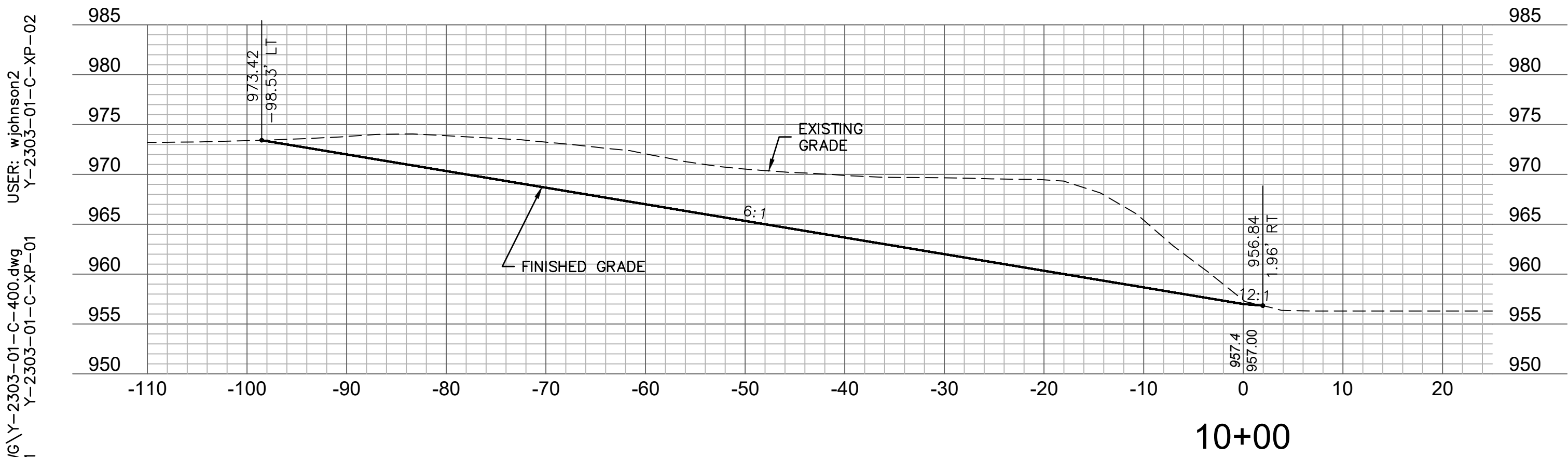
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Y-2303-01-C-XP-02

Y-2303-01-C-400.dwg
Y-2303-01-G-TB-01

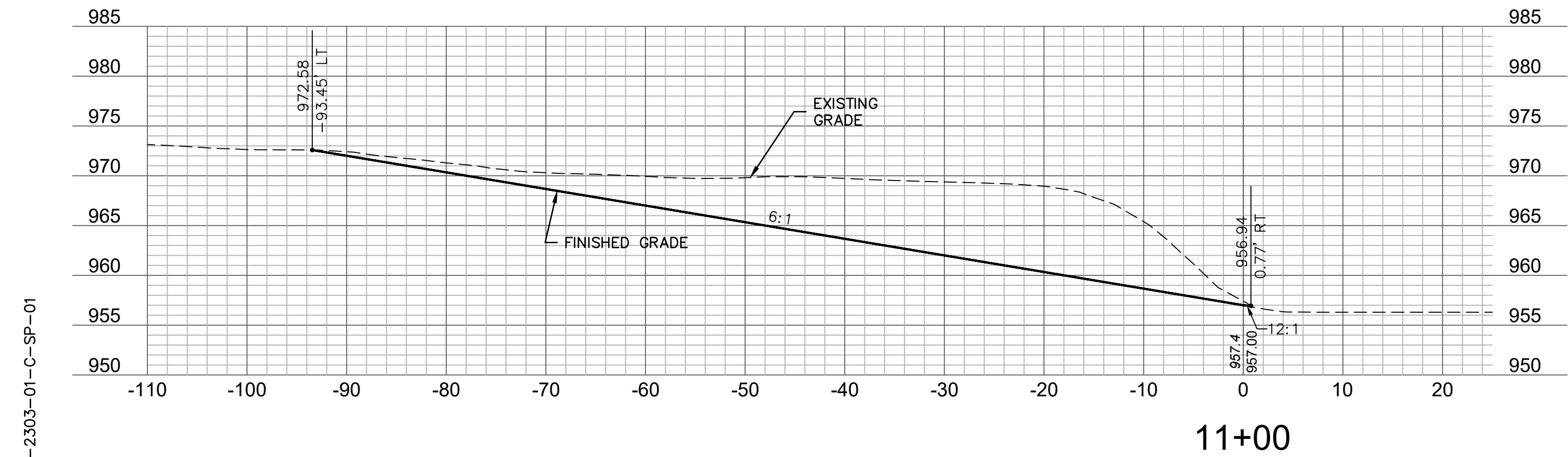
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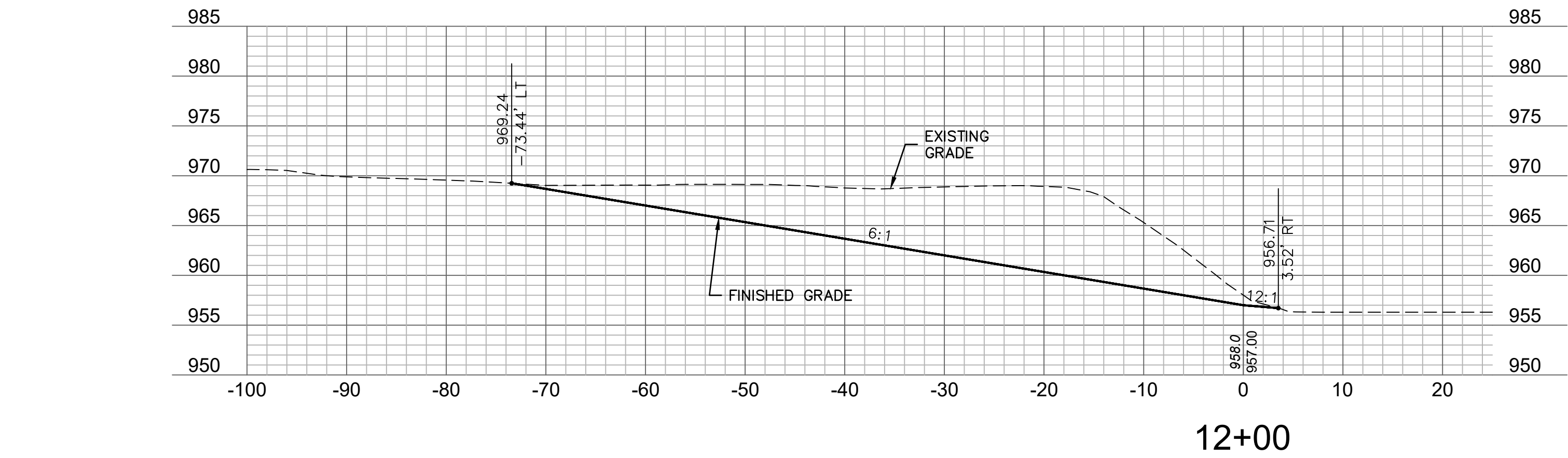
9+00



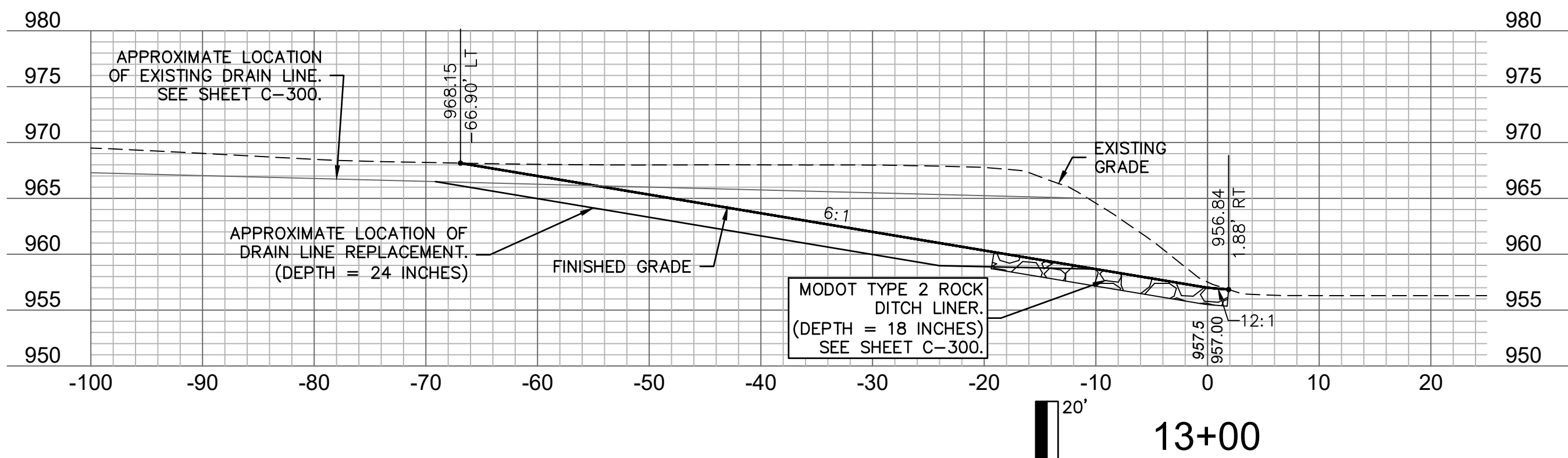
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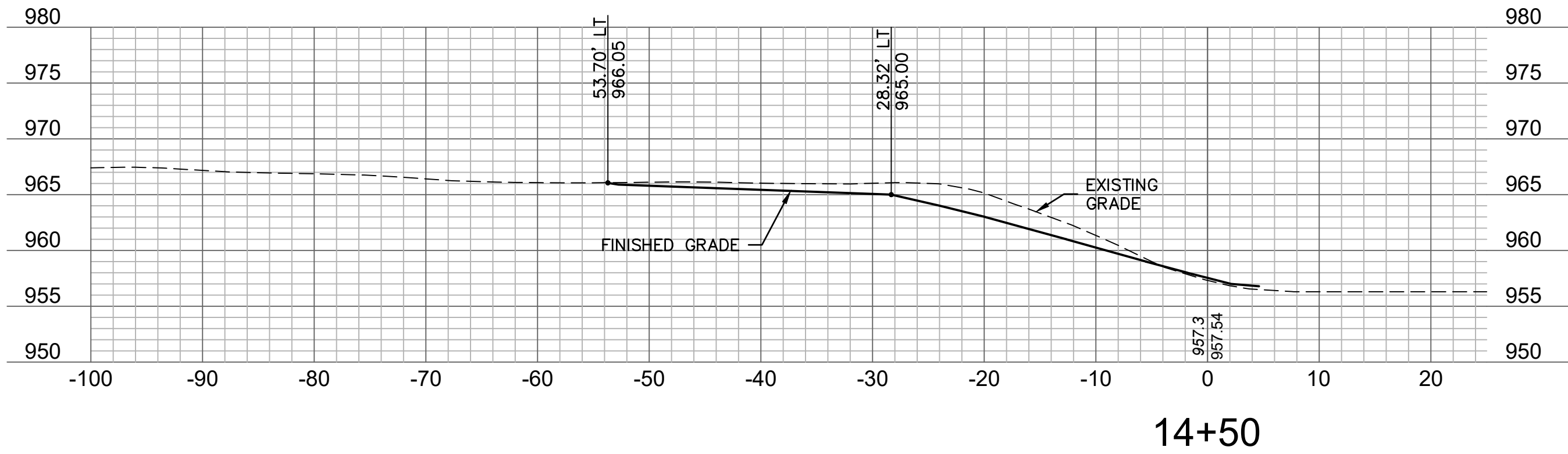
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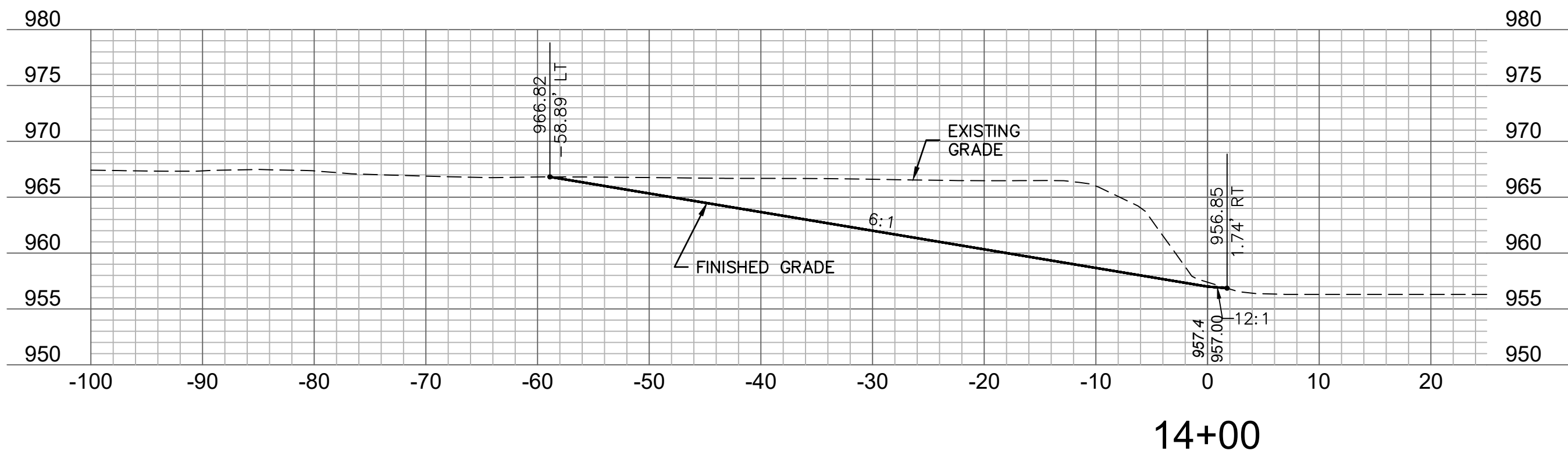
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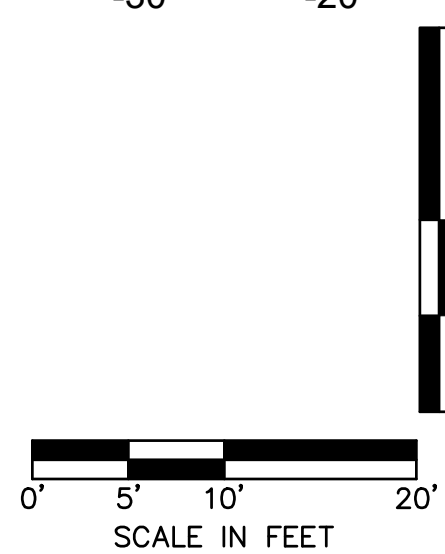
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14+50



14+00



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TUSCONIA RECLAMATION
PROJECT (Y2303-01)

LAT. 37.4718
LON. -94.85468

MINDENMINES, MO 65536

PROJECT # Y2303-01
SITE # N/A
ASSET# N/A

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 08/01/2025

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Cross Sections - North
Pit (9+00 - 14+00)

SHEET NUMBER:

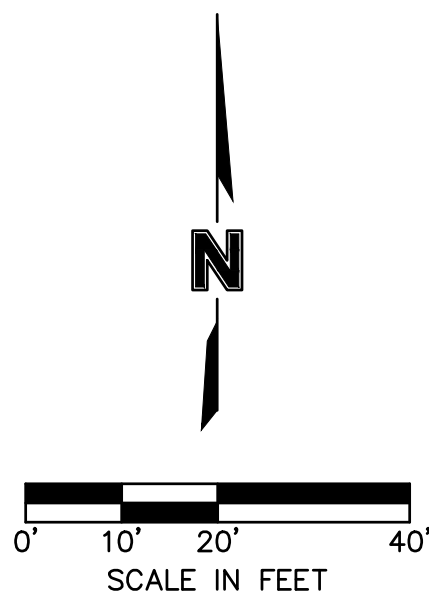
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SHEET 12 OF 17
08/01/2025

Y-2303-01-C-SP-01

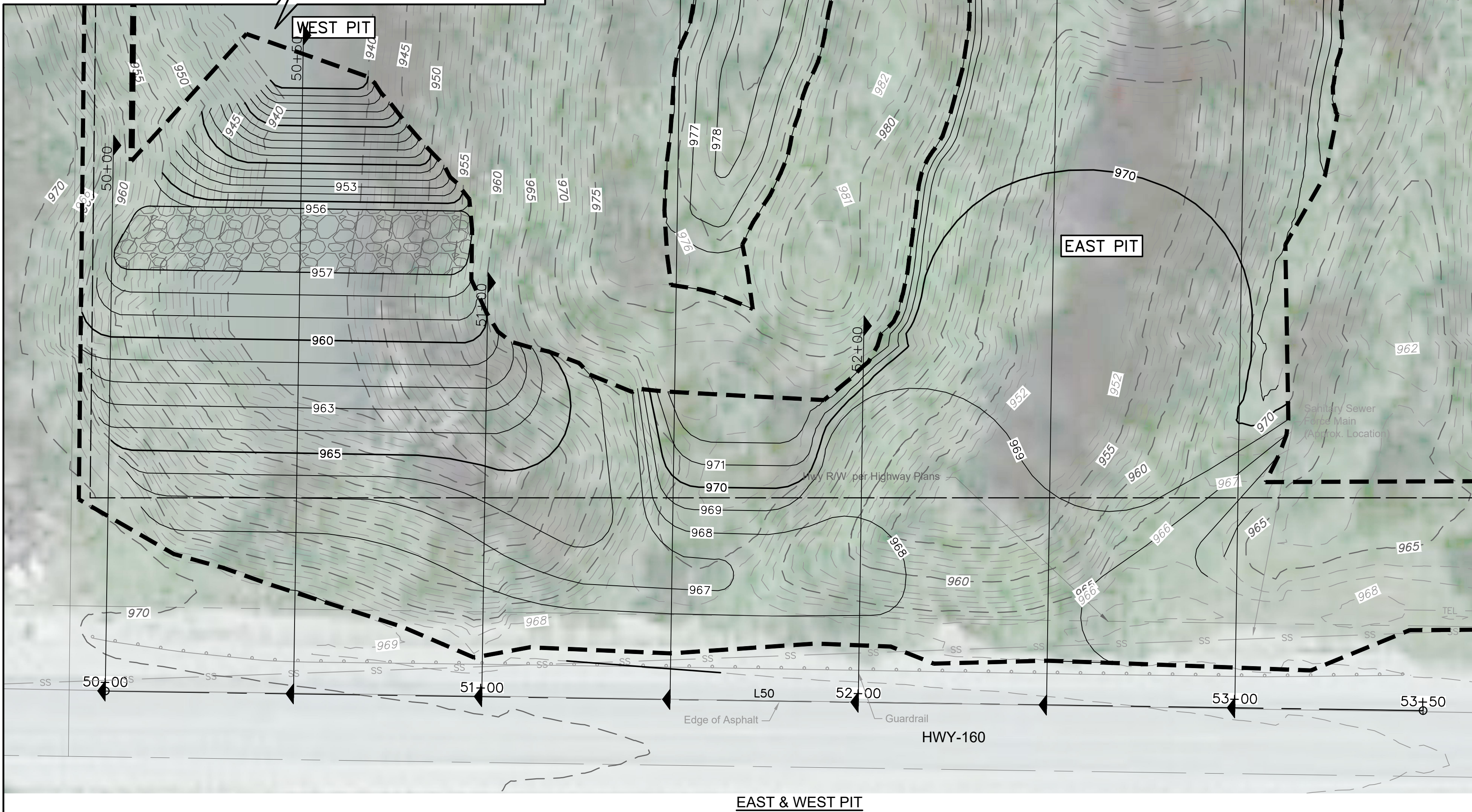
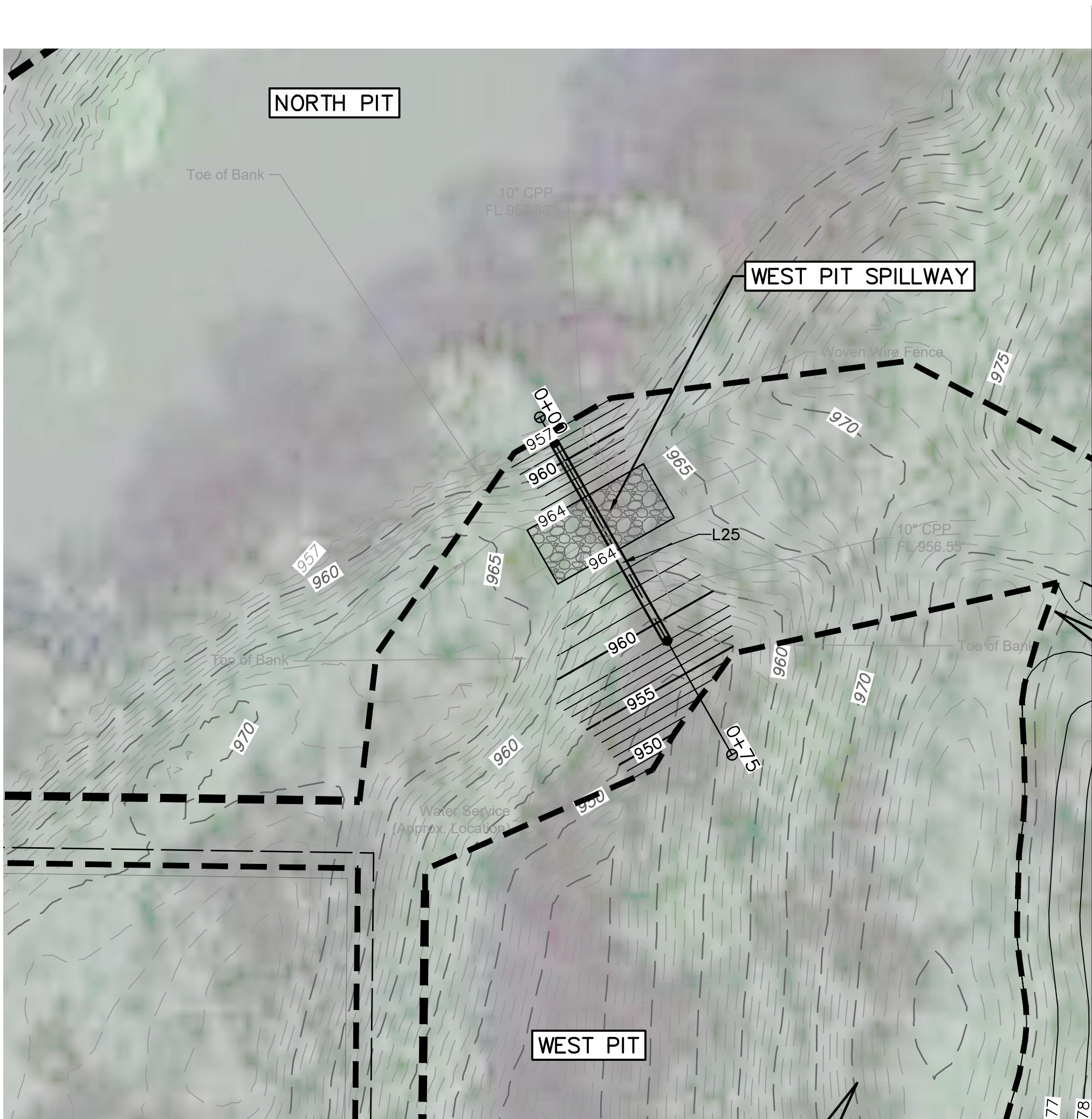
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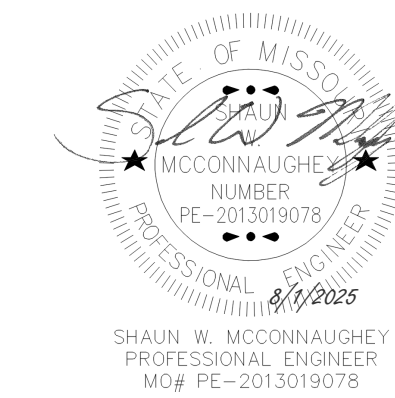


WEST PIT SPILLWAY					
NO.	STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING
L25	0+00.00	475493.4416	2763505.2451	75.00'	S29°39'04"E
	0+75.00	475428.2625	2763542.3488		

HWY-160 NORTH EDGE					
NO.	STATION	NORTHING	EASTING	LENGTH	LINE/CHORD BEARING
L50	50+00.00	475051.9953	2763473.7274	350.00'	S89°08'44"E
	53+50.00	475046.7767	2763823.6885		



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TUSCONIA RECLAMATION
PROJECT (Y2303-01)

LAT. 37.4718
LON. -94.85468

MINDENMINES, MO 65536

PROJECT # Y2303-01
SITE # N/A
ASSET# N/A

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 08/01/2025

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CHECKED BY: SWM
DESIGNED BY: SWM

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Cross Section Plan -
East & West Pit

SHEET NUMBER:

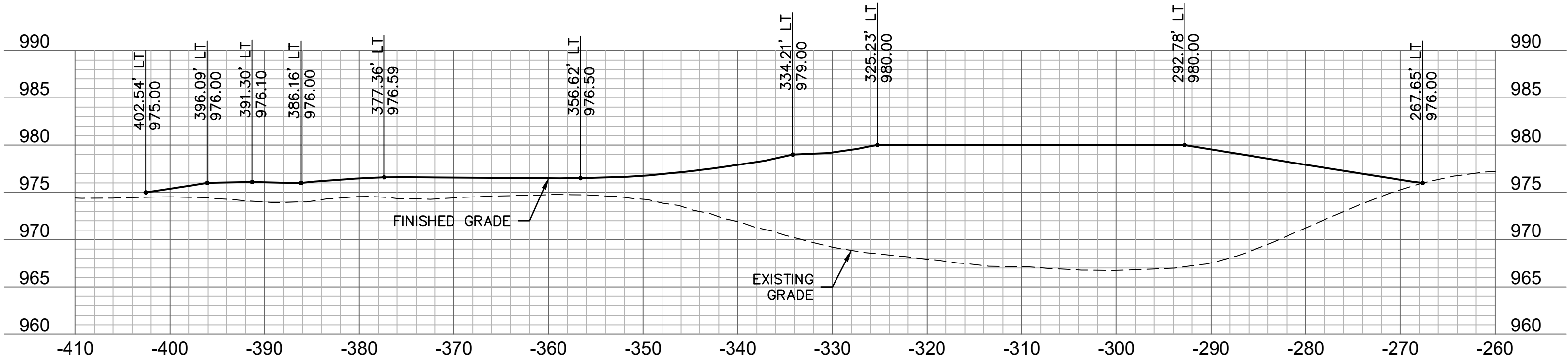
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SHEET 13 OF 17
08/01/2025

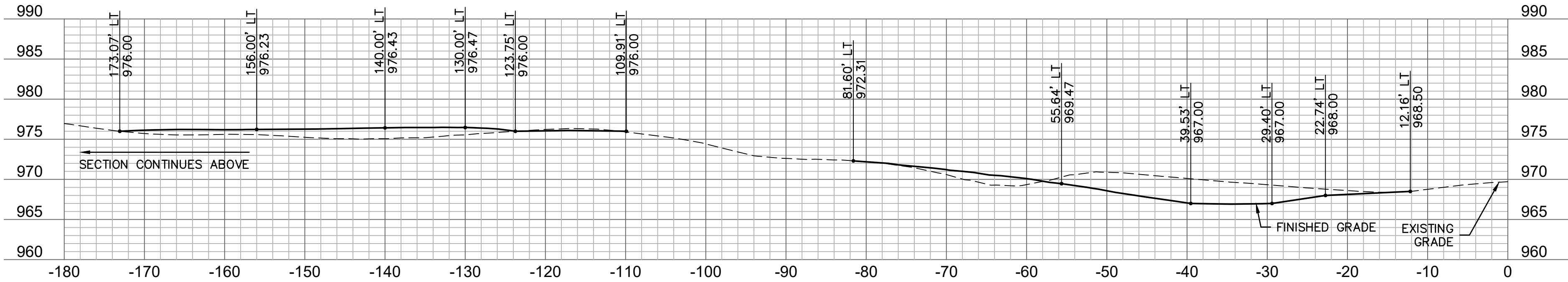
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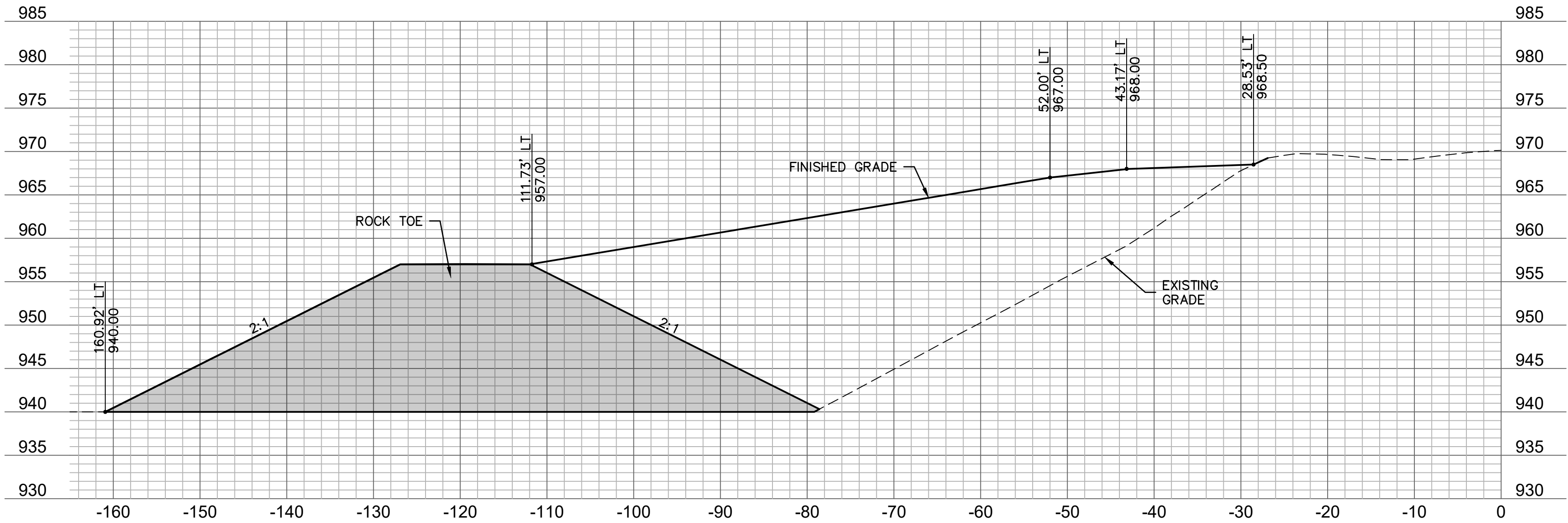
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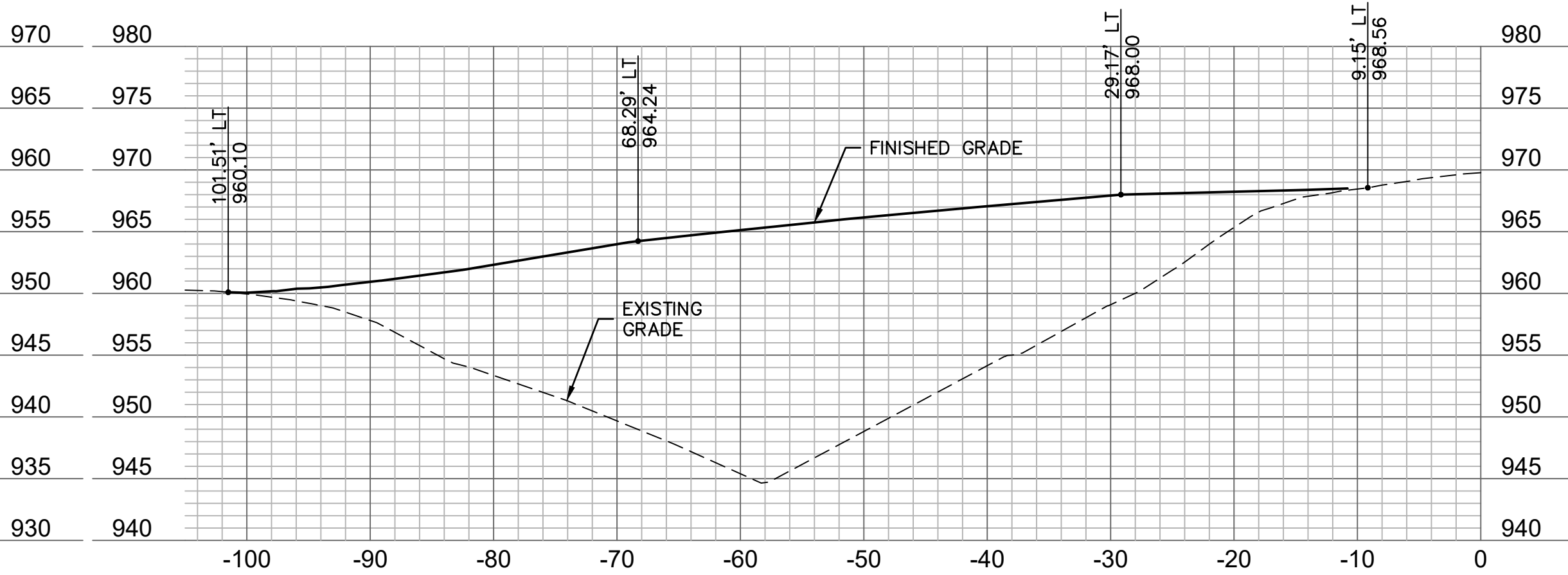
51+50



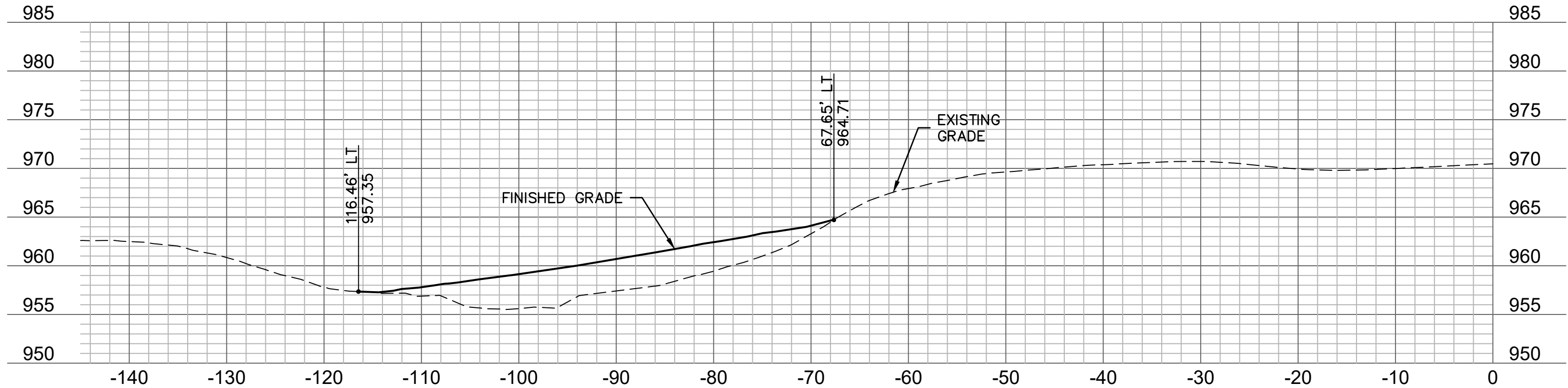
51+50



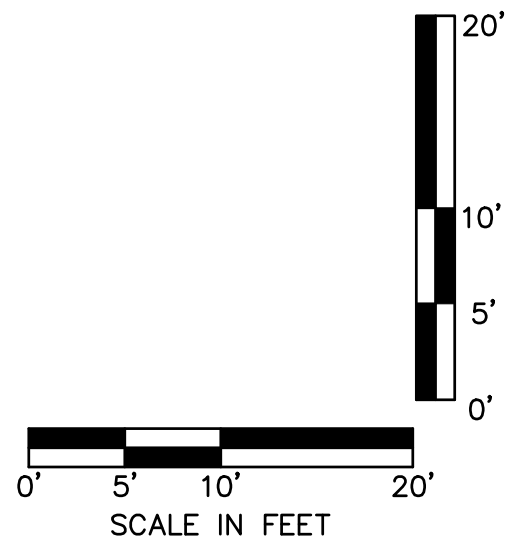
50+50



51+00



50+00



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ABANDONED MINE LAND UNIT

TUSCONIA RECLAMATION
PROJECT (Y2303-01)

LAT. 37.4718
LON. -94.85468

MINDENMINES, MO 65536

PROJECT # Y2303-01
SITE # N/A
ASSET# N/A

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 08/01/2025

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DESIGNED BY: SWM

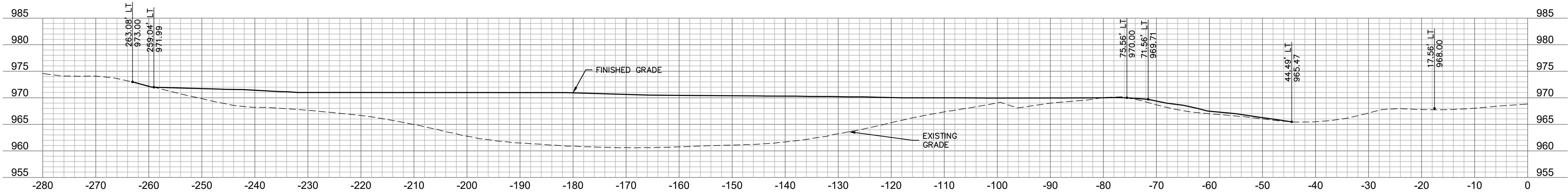
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Cross Sections - East &
West Pit (50+00 -
51+50)

SHEET NUMBER:

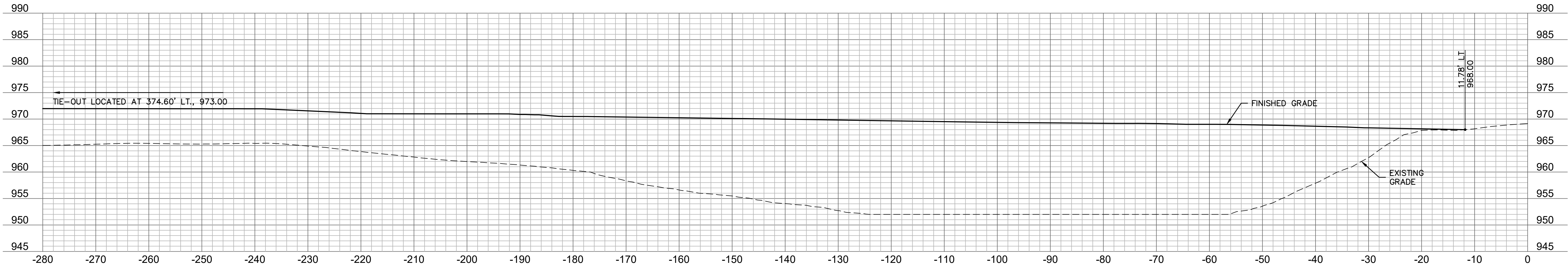
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08/01/2025

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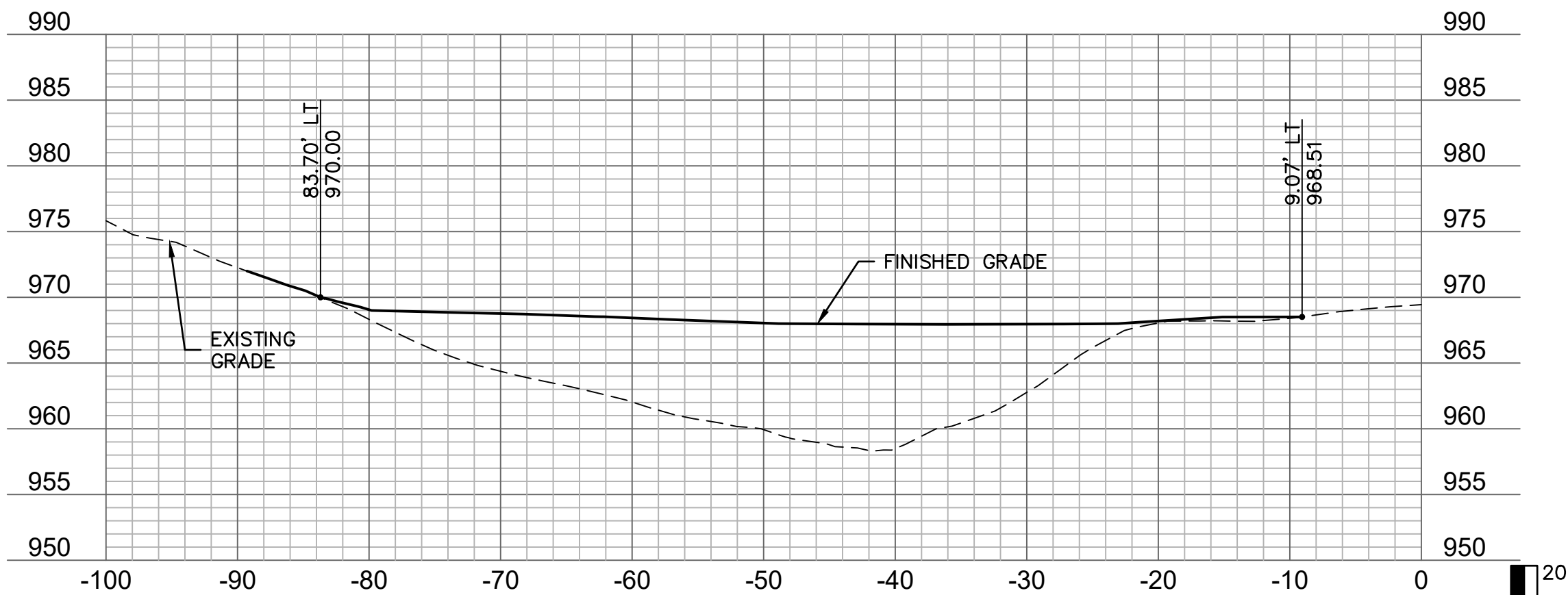
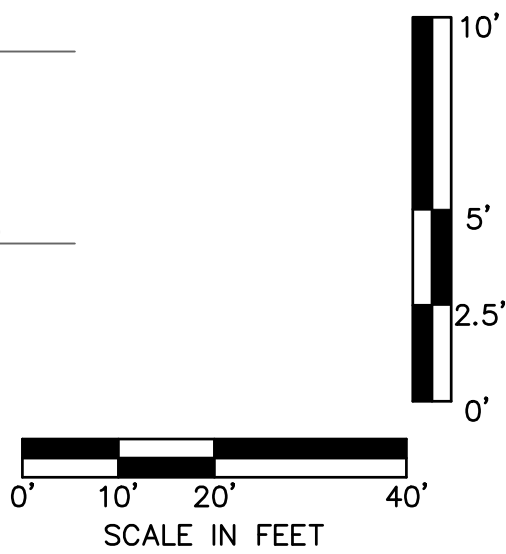
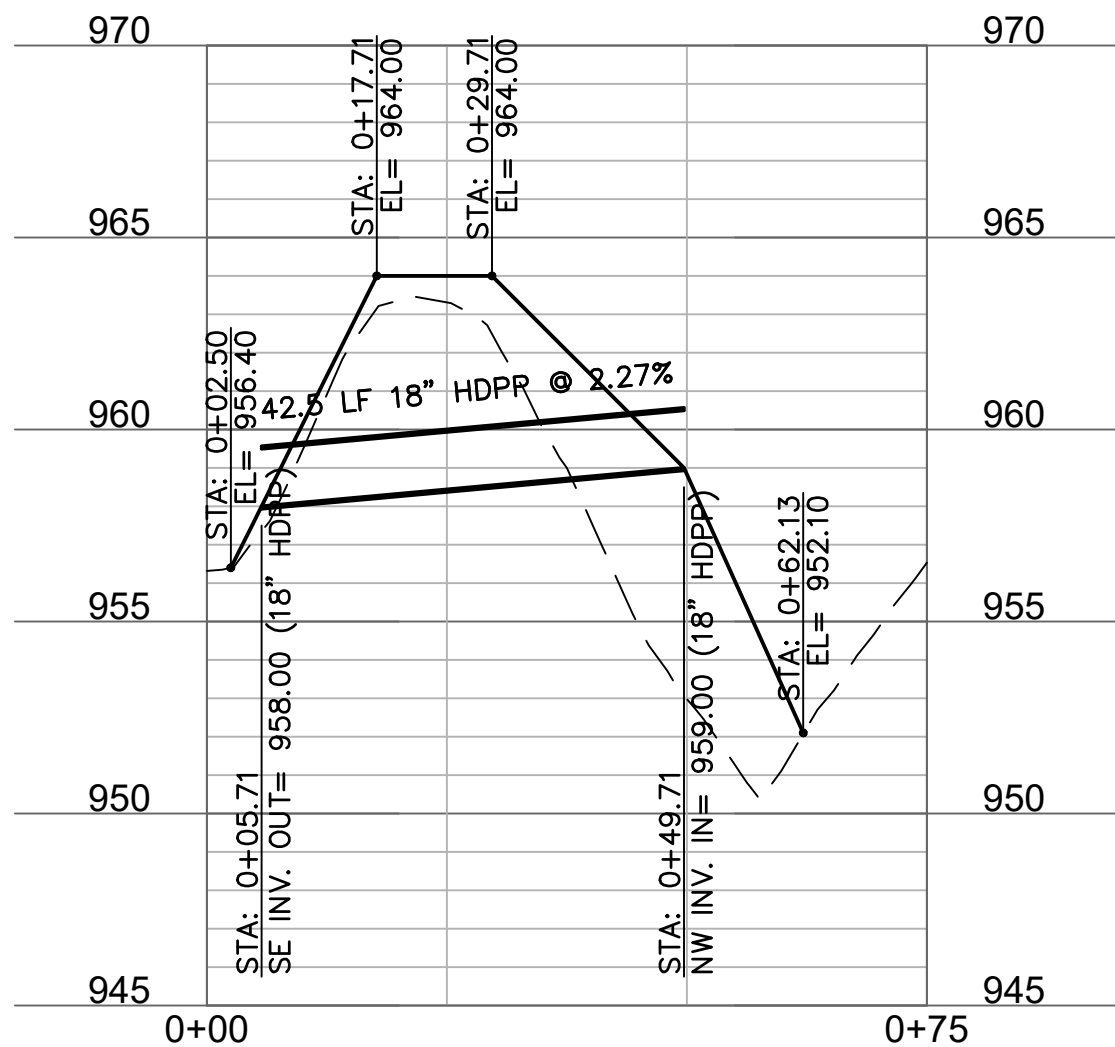


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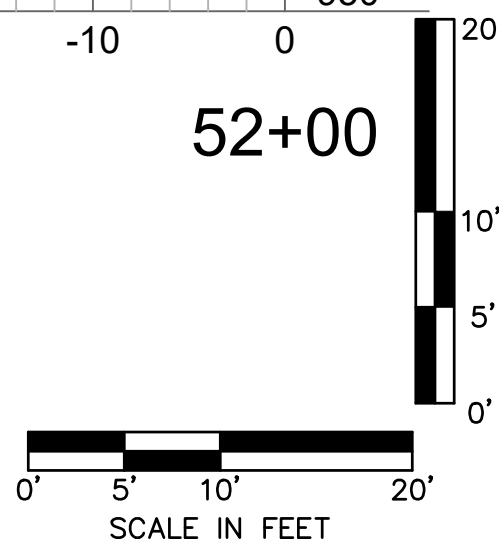


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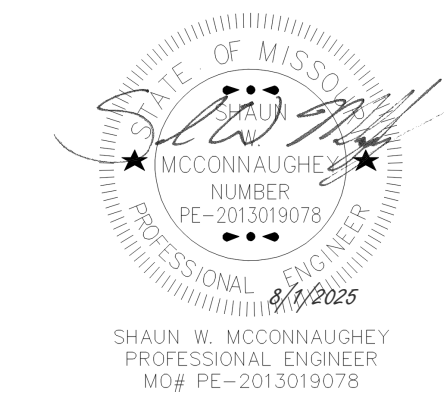
WEST PIT SPILLWAY



52+00



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LAT. 37.4718
LON. -94.85468

MINDENMINES, MO 65536

PROJECT # Y2303-01

SITE # N/A

ASSET# N/A

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 08/01/2025

CAD DWG FILE: Y-2303-01-C-400.dwg
DRAWN BY: EGP
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DESIGNED BY: SWM

SHEET TITLE:
Cross Sections - East &
West Pit (52+00 -
53+00) & West Pit
Spillway Profile

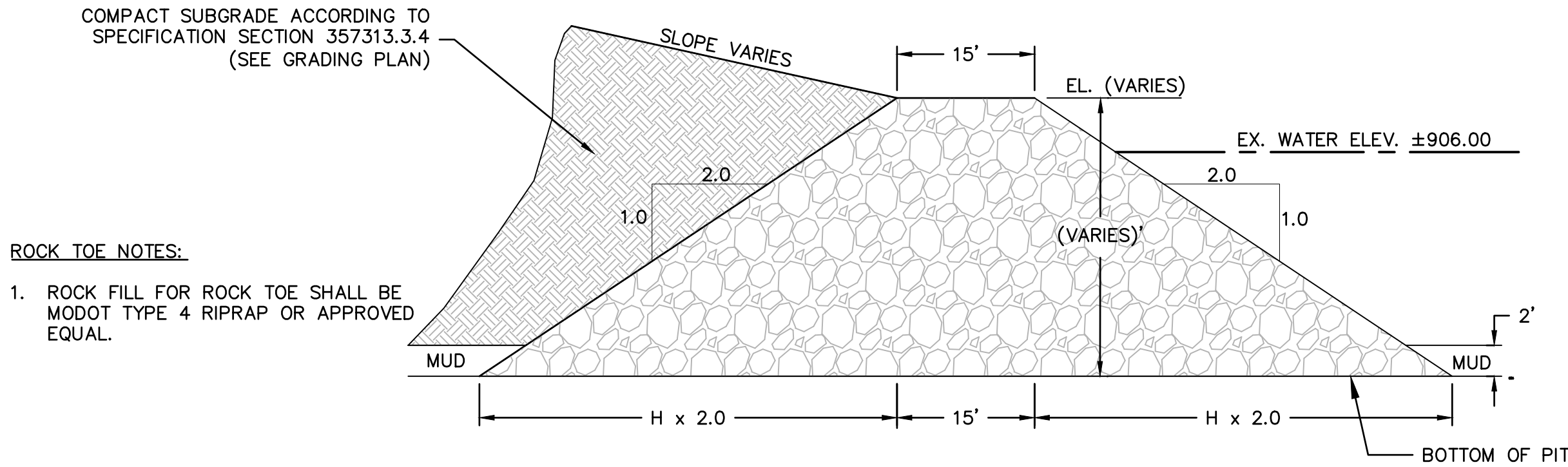
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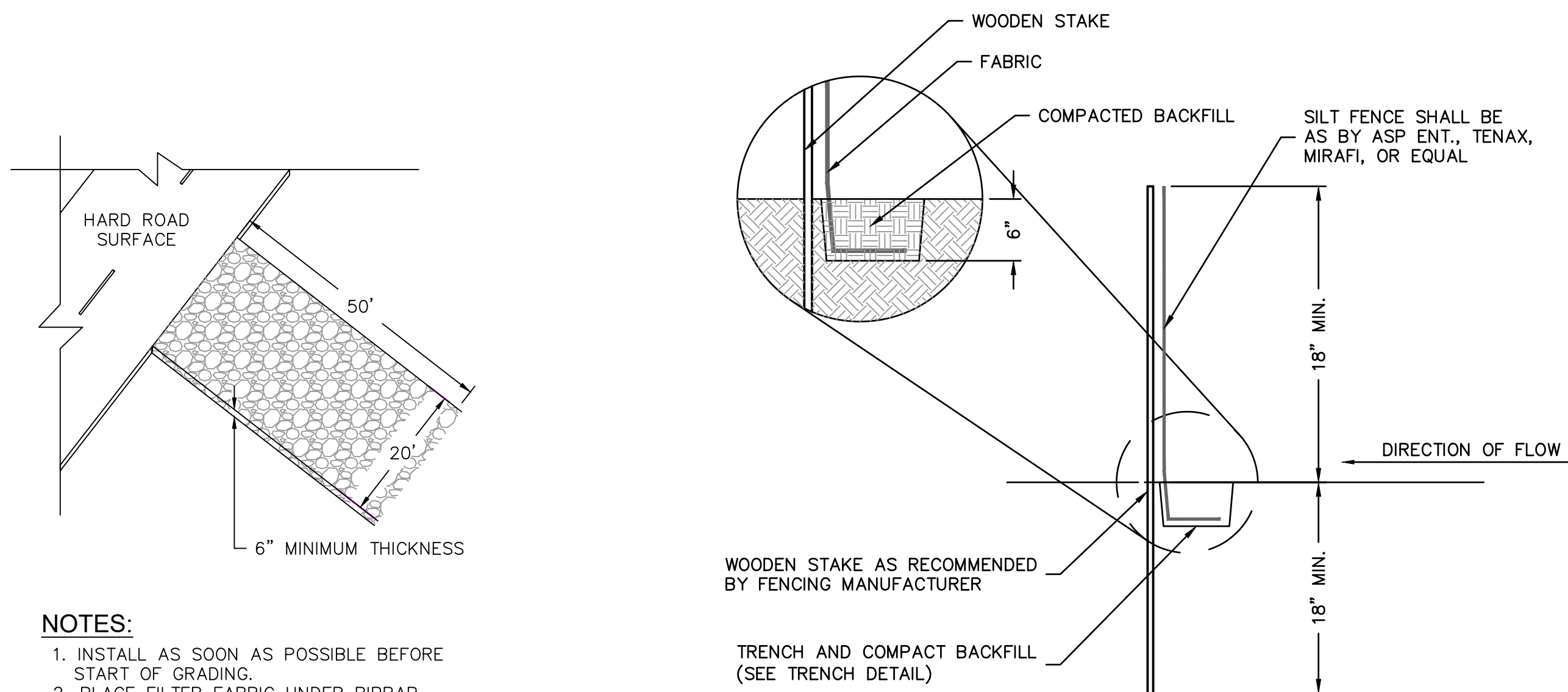
SHEET 15 OF 17
08/01/2025



USER: wjohnson2
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DATE: Jul 30, 2025 3:56pm XREFS: Y-2303-01-G-1B-01



5 15' WIDE ROCK TOE SECTION
C500 NTS

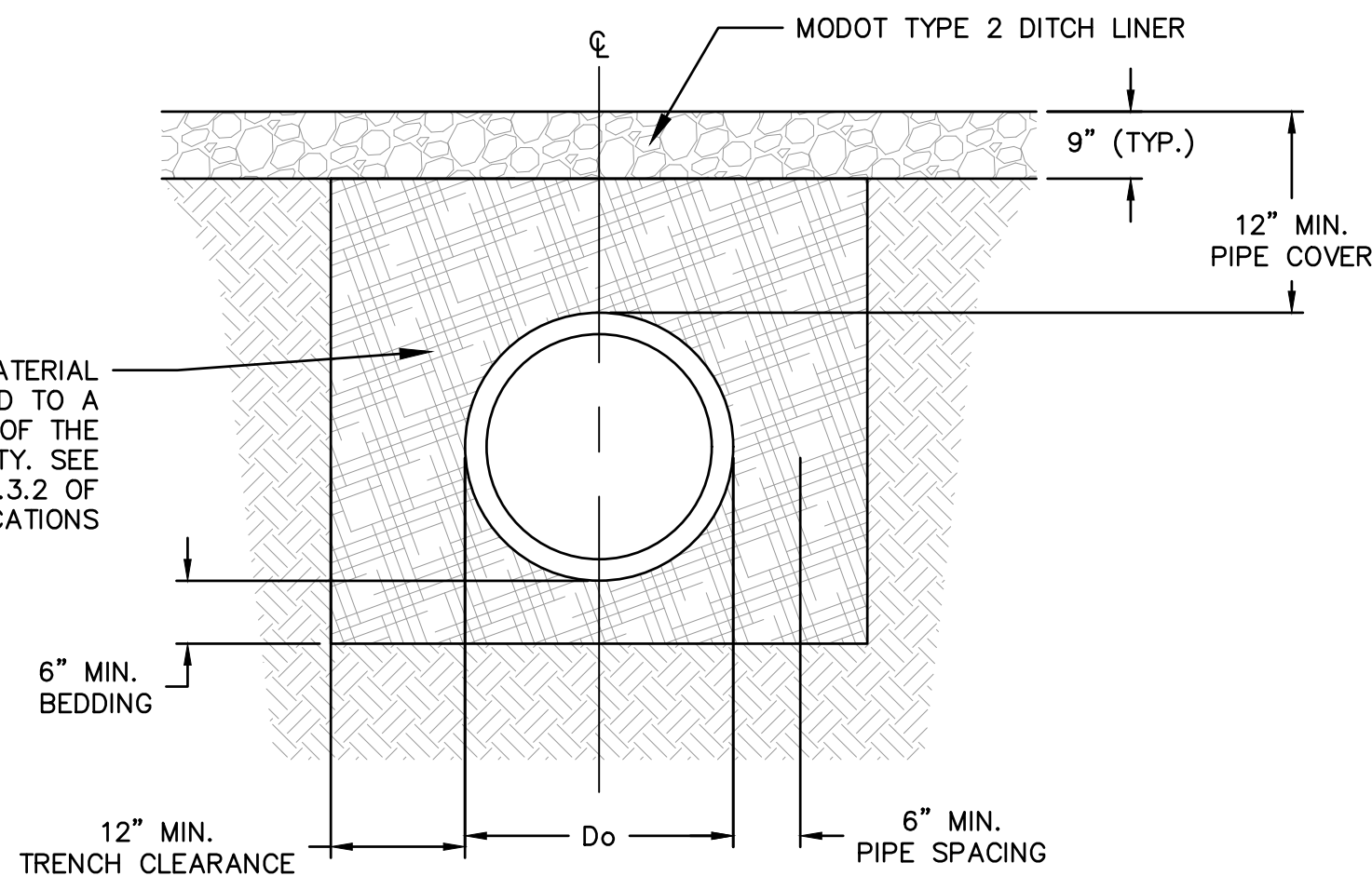


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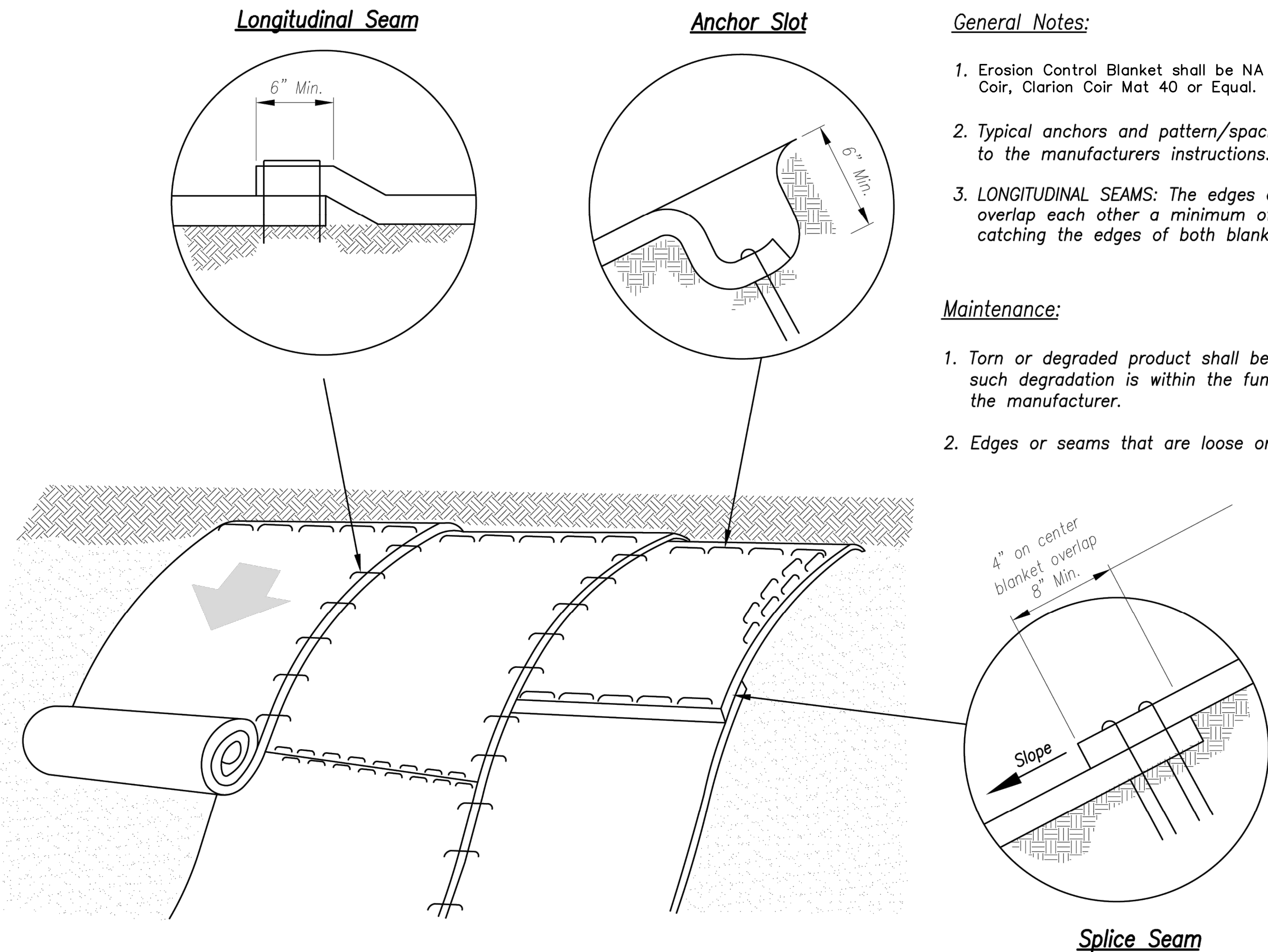
1. INSTALL AS SOON AS POSSIBLE BEFORE START OF GRADING.
2. PLACE FILTER FABRIC UNDER RIPRAP.
3. USE 3" TO 6" CLEAN CRUSHED LIMESTONE.
4. DRIVE MUST BE AT LEAST 20 FEET WIDE AND 50 FEET LONG.
5. REPLACE AS NEEDED TO MAINTAIN 6 INCH DEPTH.

3 GRAVEL CONSTRUCTION ENTRANCE
C500 NTS

4 SILT FENCE DETAIL
C500 NTS

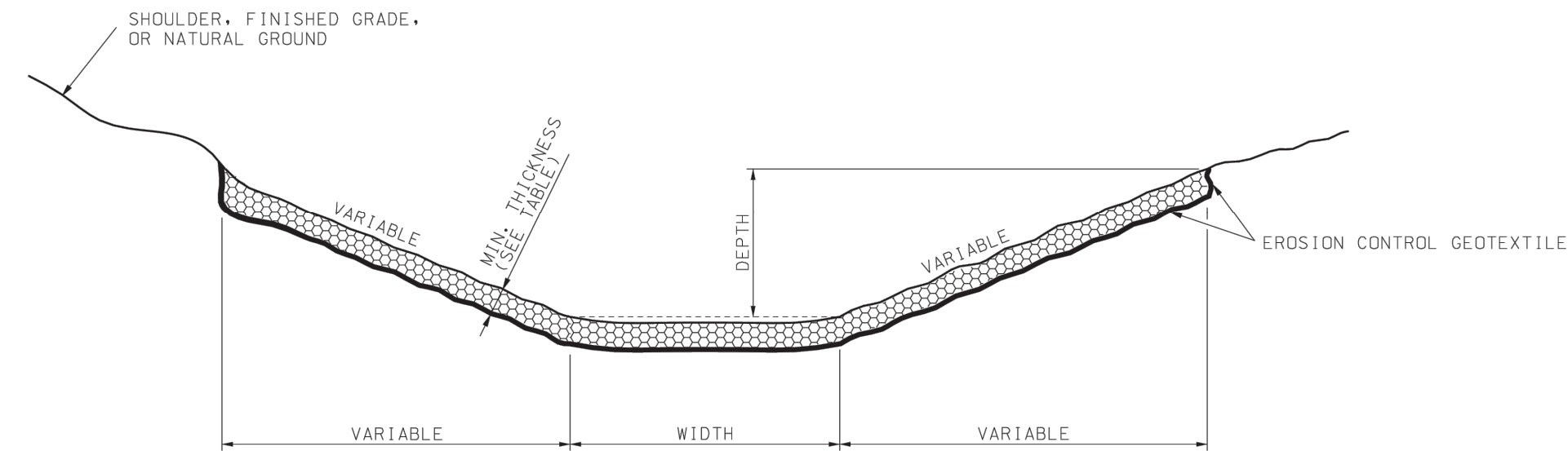


1 PP PIPE TRENCH INSTALLATION DETAIL
C500 NTS

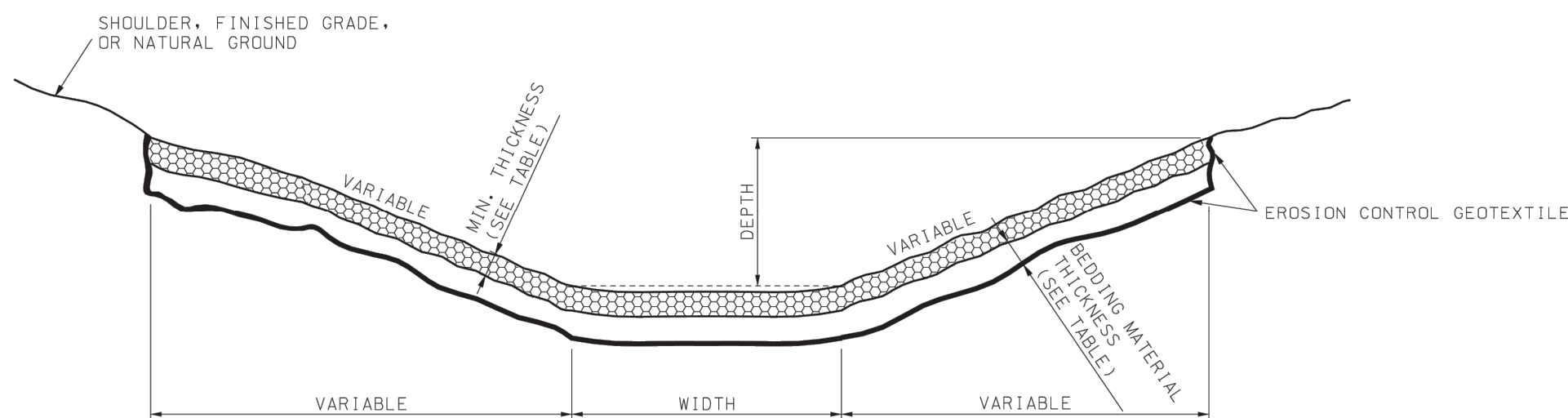


Installation on Slopes

6 EROSION CONTROL BLANKET DETAIL
C500 NTS



FLAT BOTTOM DITCH WITHOUT BEDDING MATERIAL



FLAT BOTTOM DITCH WITH BEDDING MATERIAL

2 TYPICAL DITCH LINER DETAILS
C500 NTS

TYPE	ROCK DITCH LINER MIN. THICKNESS	BEDDING MATERIAL MIN. THICKNESS
1	8"	---
2	12"	---
3	22"	8"
4	30"	12"

General Notes:

1. Erosion Control Blanket shall be NA Green C125BN, Hanes 400g Coir, Clarion Coir Mat 40 or Equal.
2. Typical anchors and pattern/spacing shall be installed according to the manufacturers instructions.
3. LONGITUDINAL SEAMS: The edges of the blanket or mat should overlap each other a minimum of 6 inches, with anchors catching the edges of both blankets.

Maintenance:

1. Torn or degraded product shall be repaired or replaced, unless such degradation is within the functional longevity specified by the manufacturer.
2. Edges or seams that are loose or frayed shall be secured.

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DESIGN AND CONSTRUCTION

DEPARTMENT OF
NATURAL RESOURCES
LAND RECLAMATION PROGRAM
ABANDONED MINE LAND UNIT

TUSCONIA RECLAMATION
PROJECT (Y2303-01)

LAT. 37.4718
LON. -94.85468

MINDENMINES, MO 65536

PROJECT # Y2303-01
SITE # N/A
ASSET# N/A

REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 08/01/2025

CAD DWG FILE: Y-2303-01-C-500.dwg
DRAWN BY: EGP
CHECKED BY: SWM
DESIGNED BY: SWM

SHEET TITLE:
Details

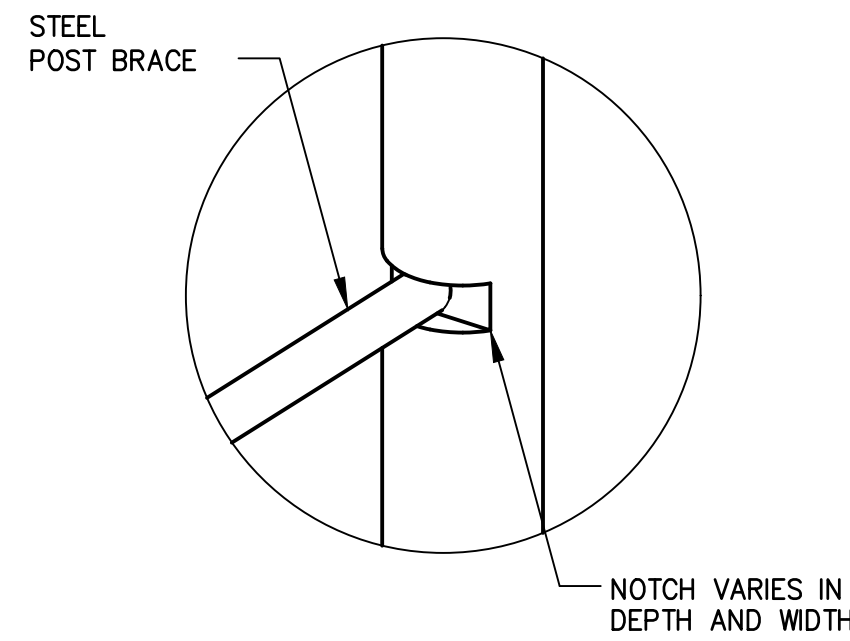
SHEET NUMBER:

C-500

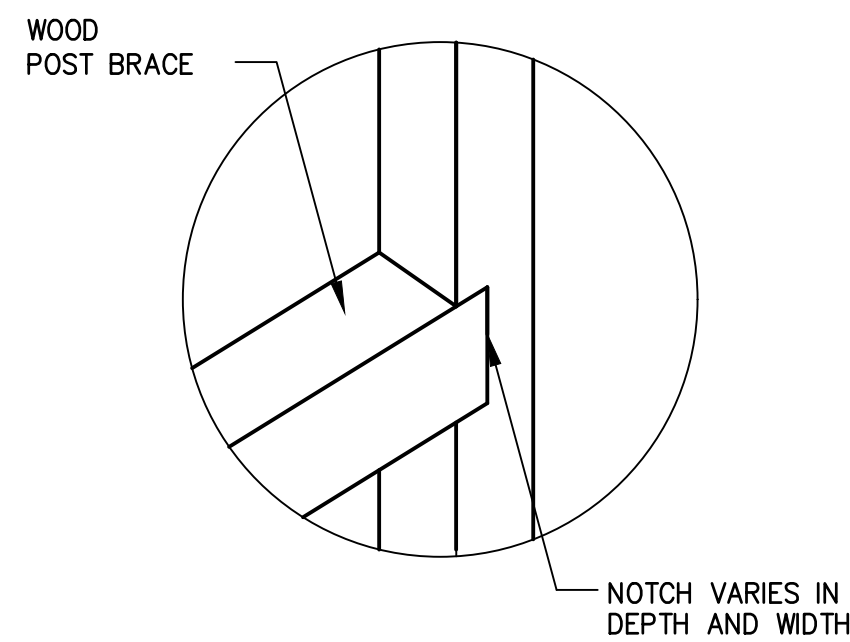
SHEET 16 OF 17
08/01/2025



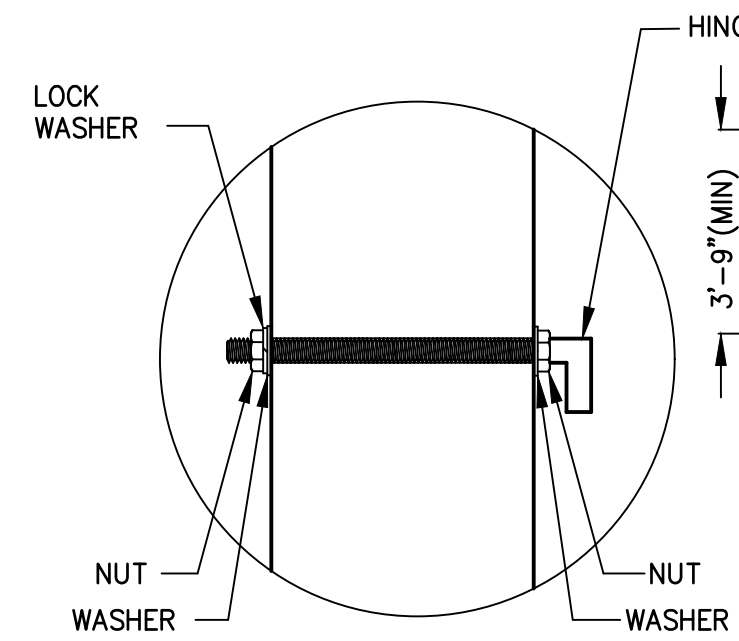
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DATE: Jul 30, 2025 3:56pm
USER: wjohnson2
XREFS: Y-2303-01-G-1B-01



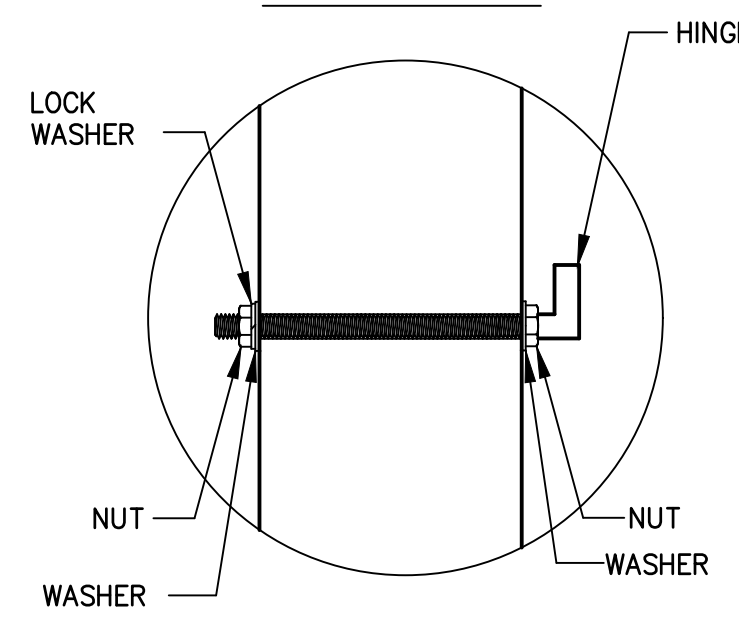
DETAIL C
TYP. ALL STEEL
BRACE POST



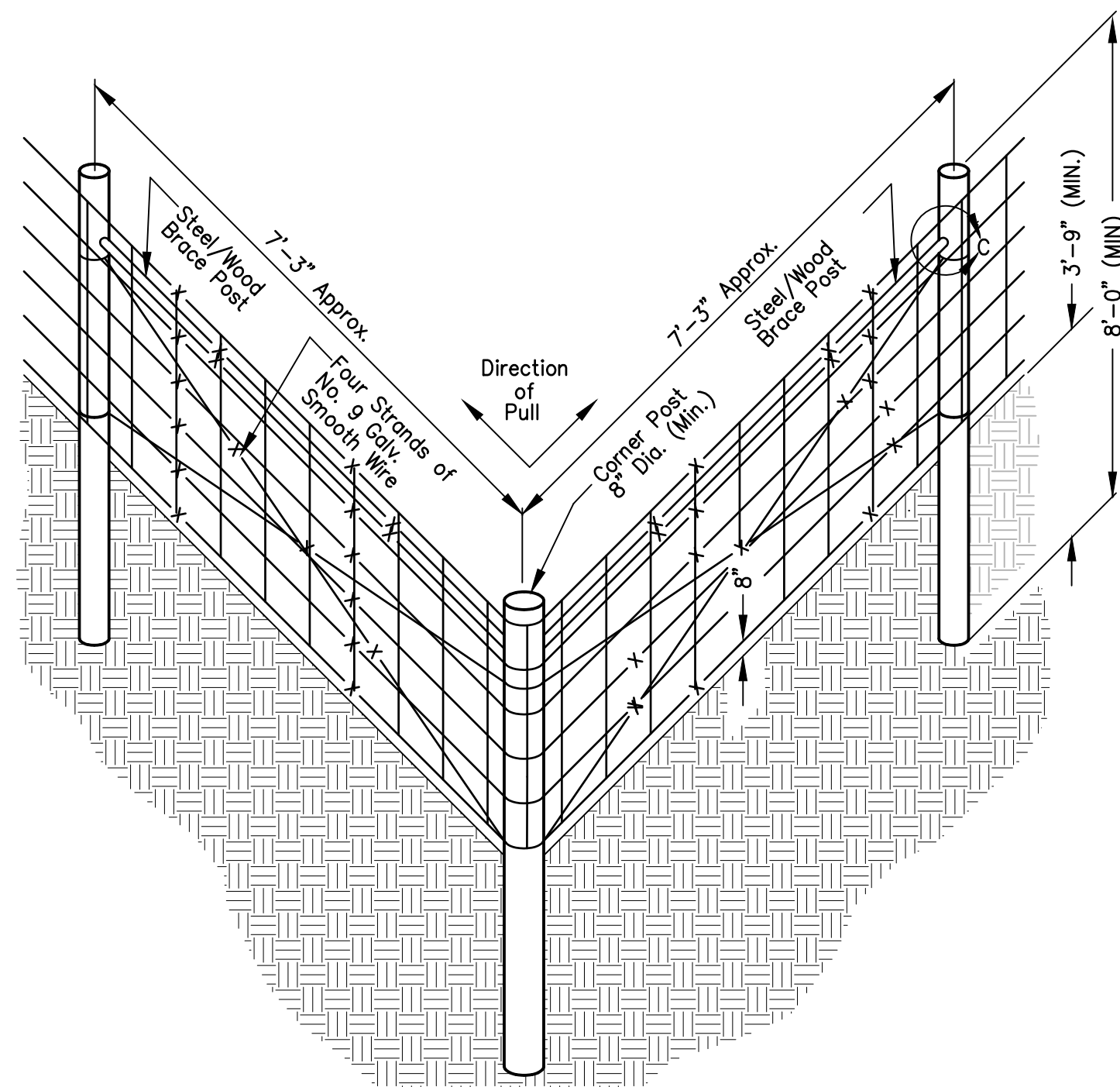
DETAIL C
TYP. ALL WOOD
BRACE POST



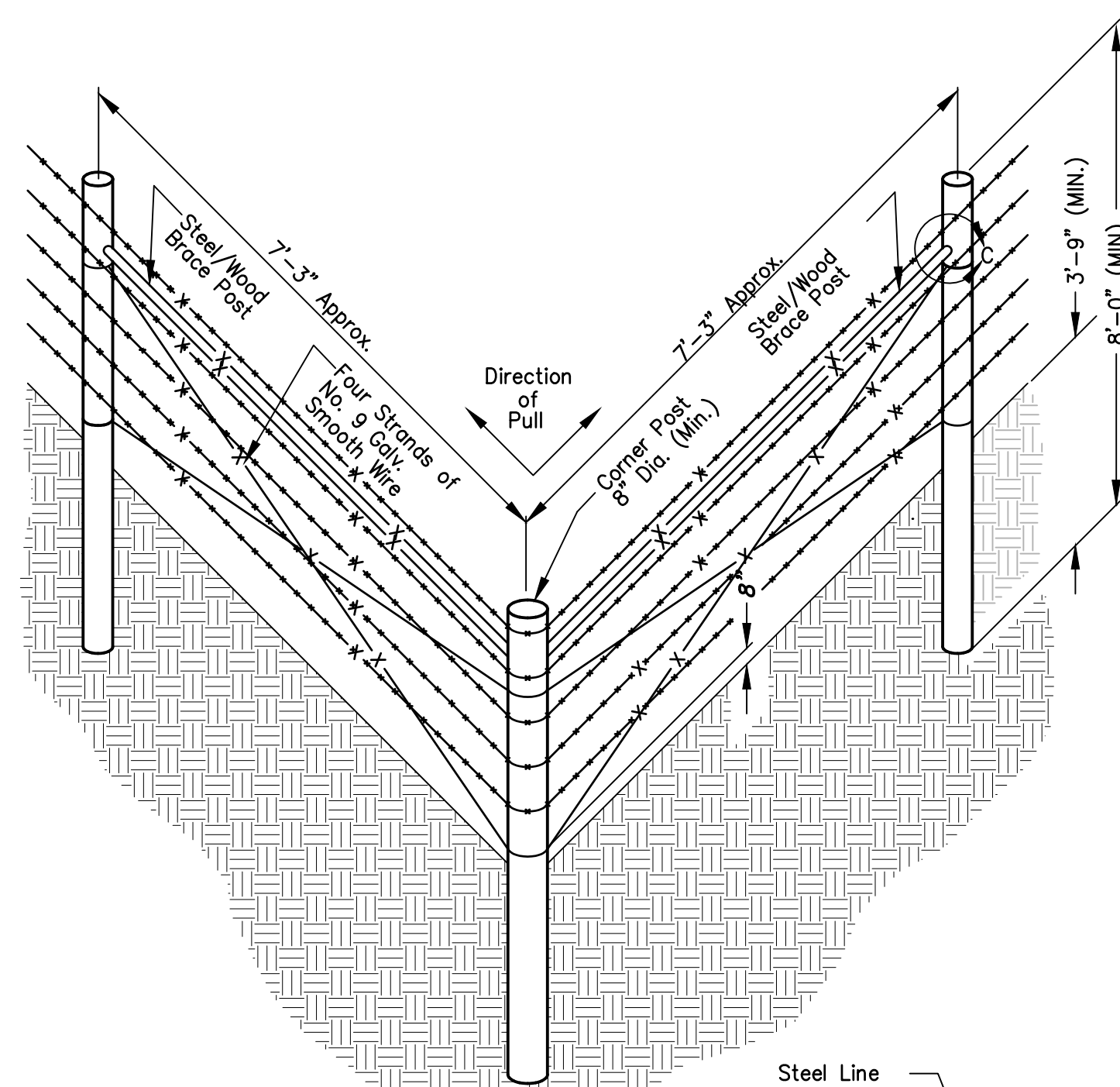
DETAIL A



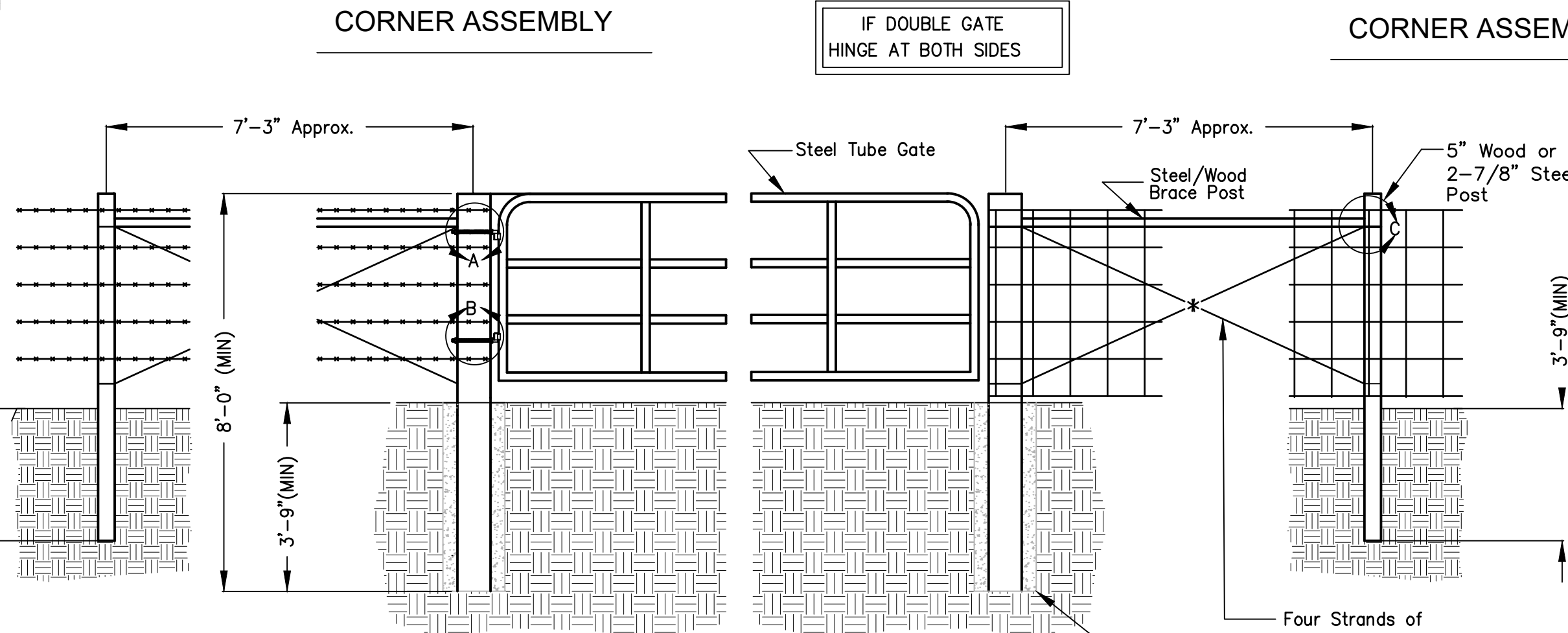
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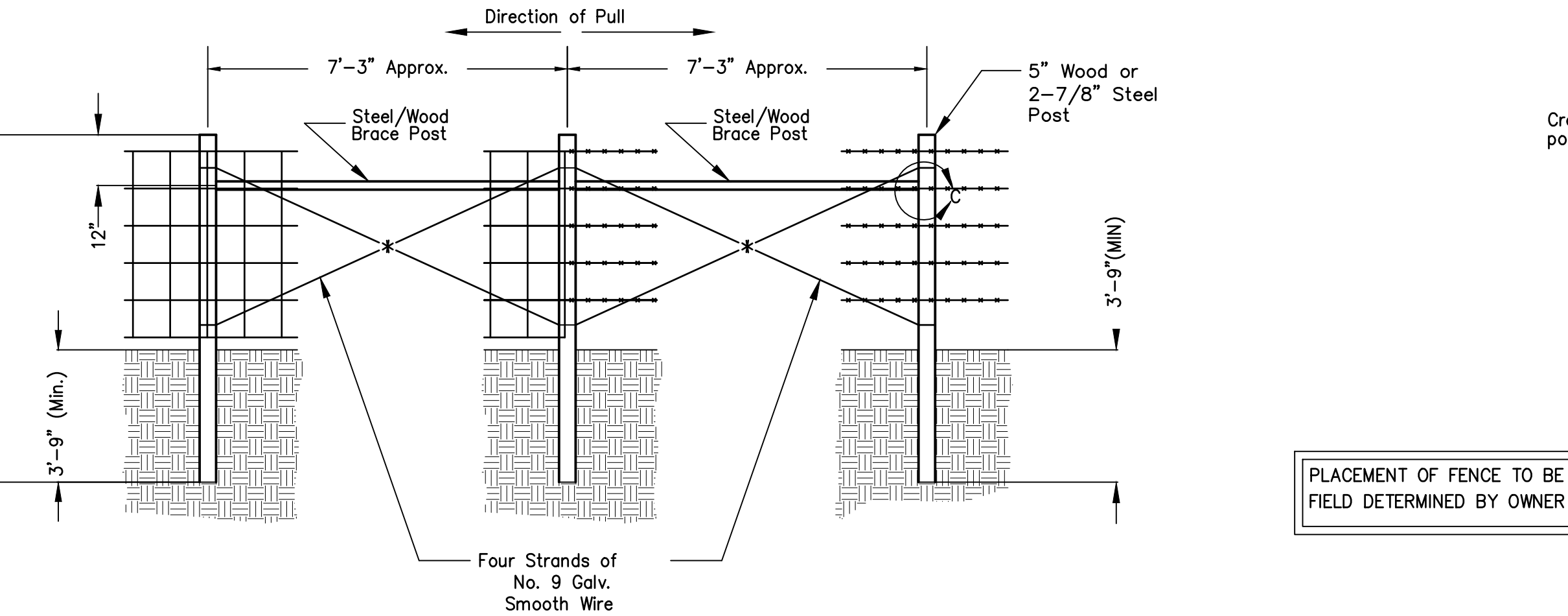
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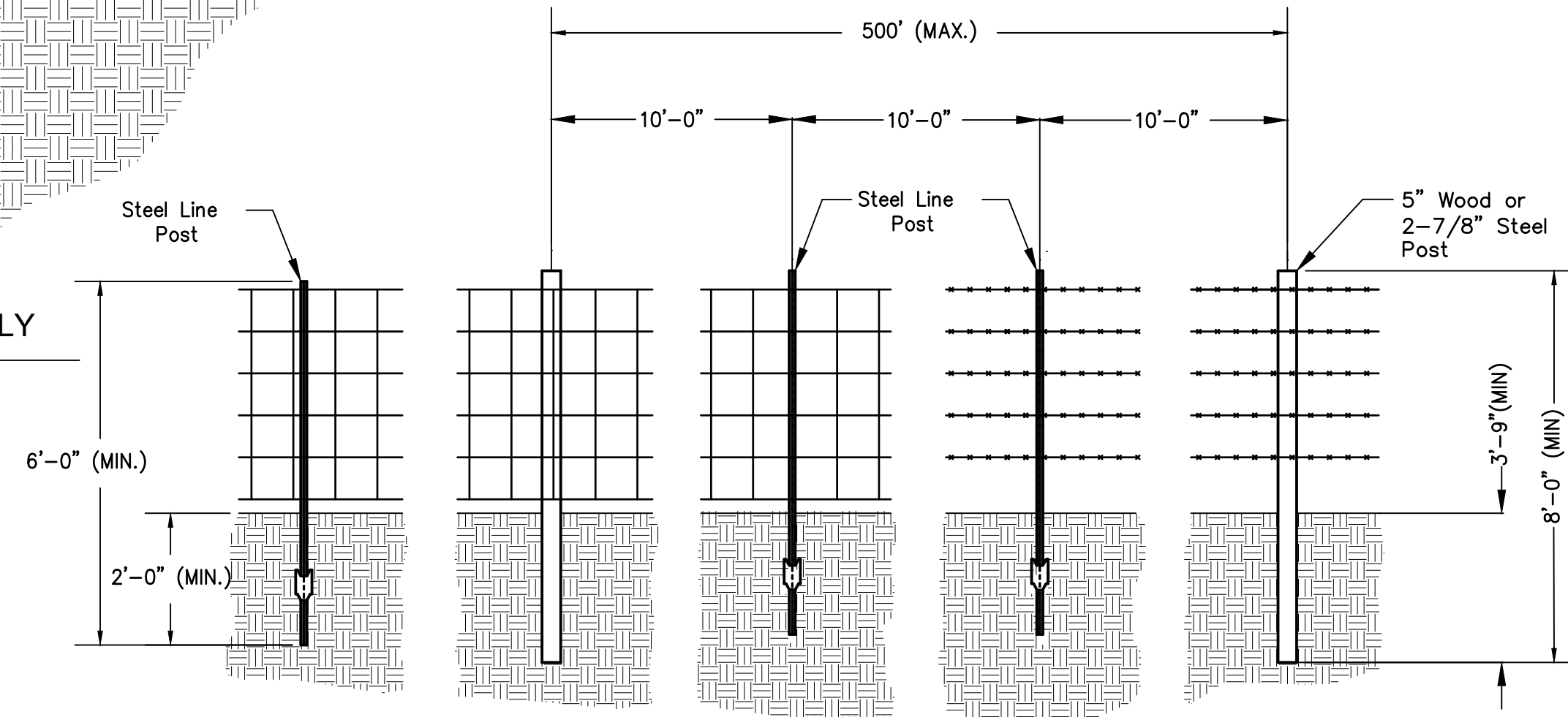
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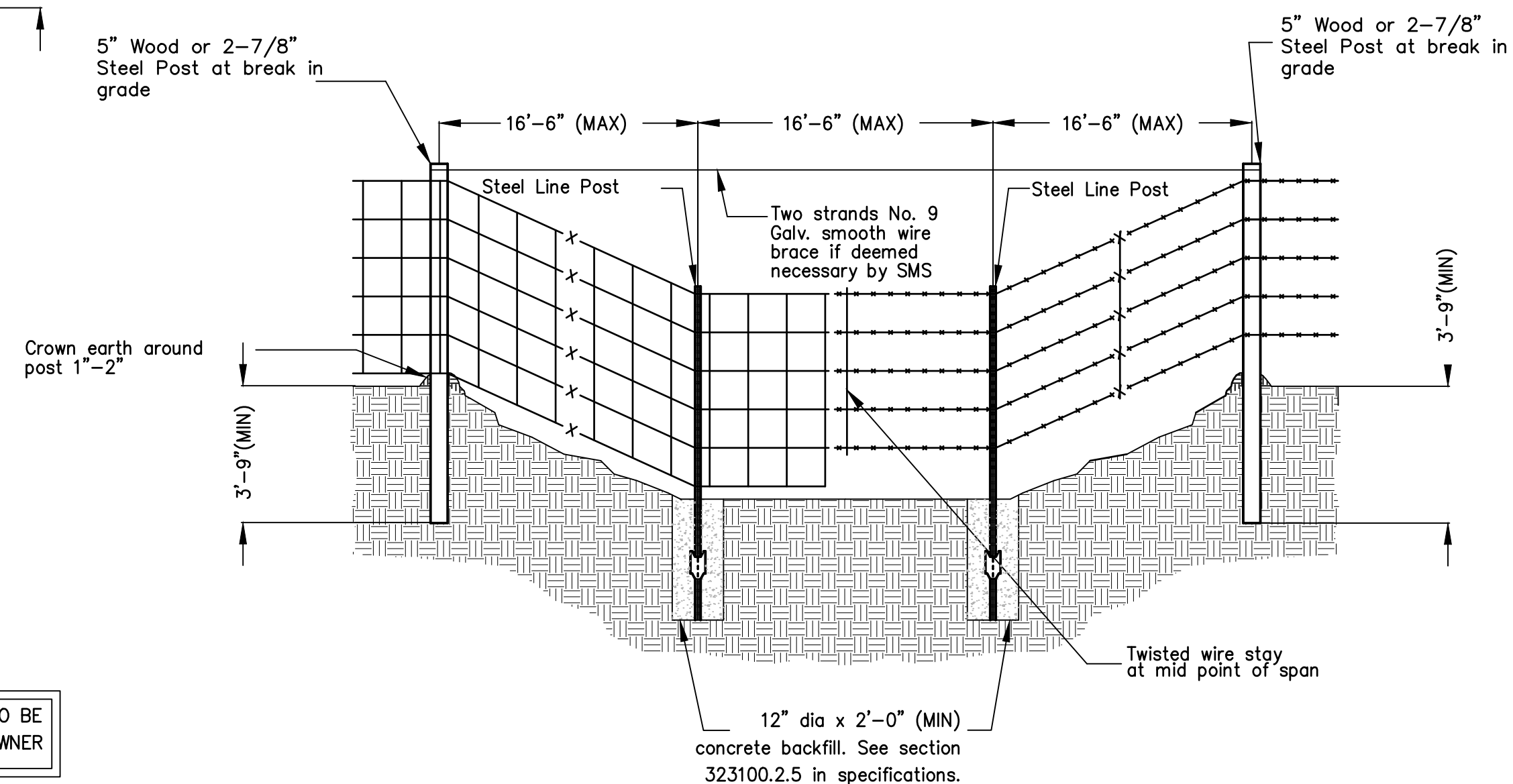
GATE ASSEMBLY



PULL POST ASSEMBLY



LINE FENCE SECTION

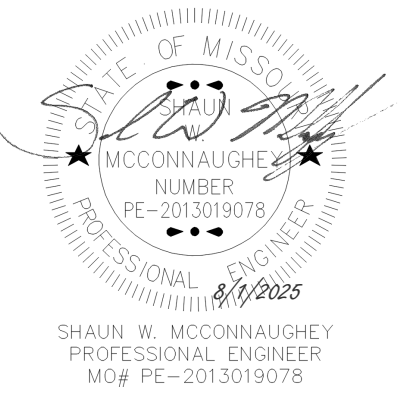


CROSSING AT SMALL DEPRESSIONS
AND WATERWAYS

1 C501 BARBED WIRE FENCE DETAIL
NTS

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STATE OF MISSOURI
MICHAEL L. KEHOE,
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OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES
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CAD DWG FILE: Y-2303-01-C-500.dwg
DRAWN BY: EGP
CHECKED BY: SWM
DESIGNED BY: SWM

SHEET TITLE:
Details - Barbed Wire
Fence

SHEET NUMBER:

C-501

SHEET 17 OF 17
08/01/2025