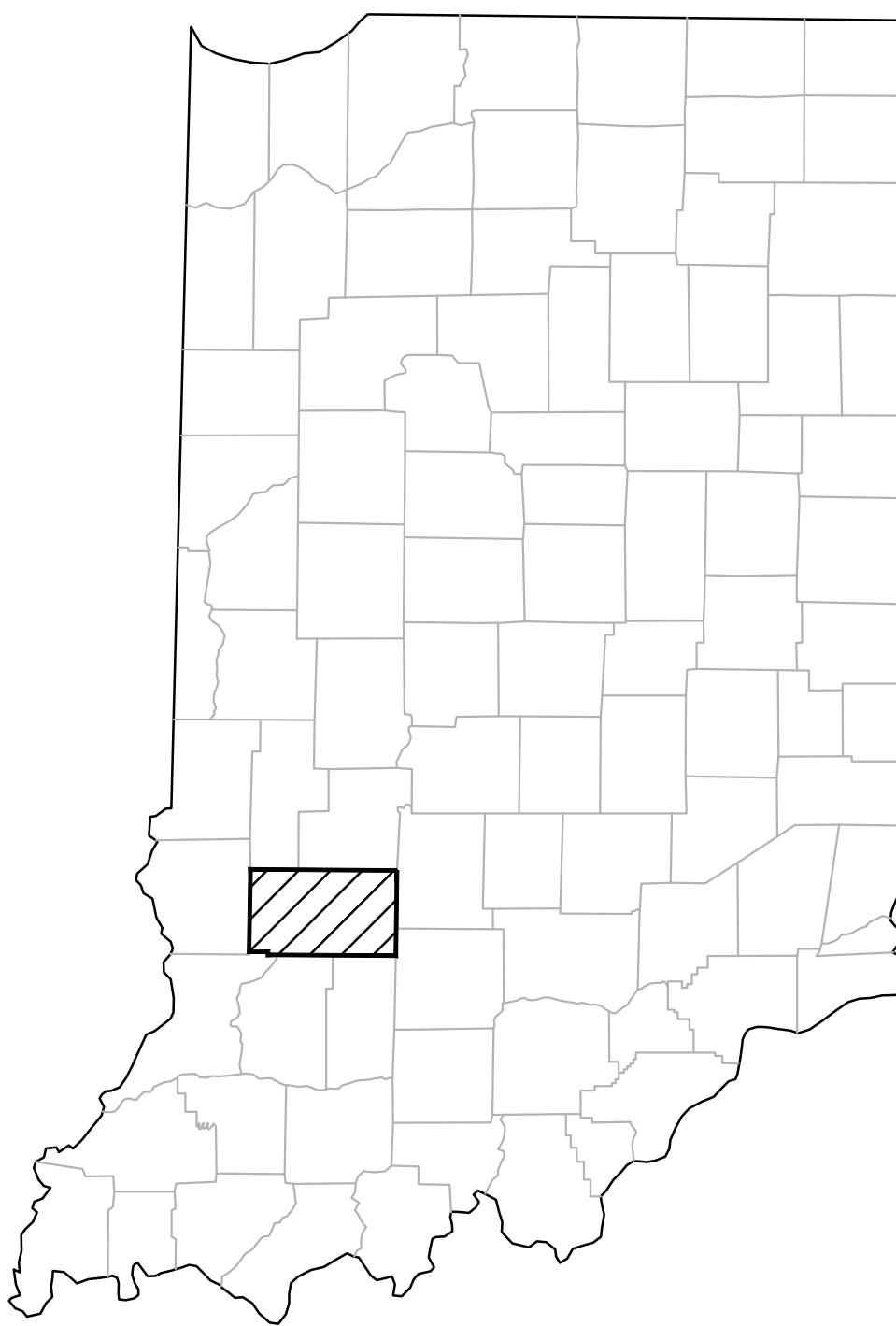


## 12TH STREET HIGHWALL

SITE NO.	CONTRACT NO.
1836	DEL2415208251/E008-338

GREENE COUNTY



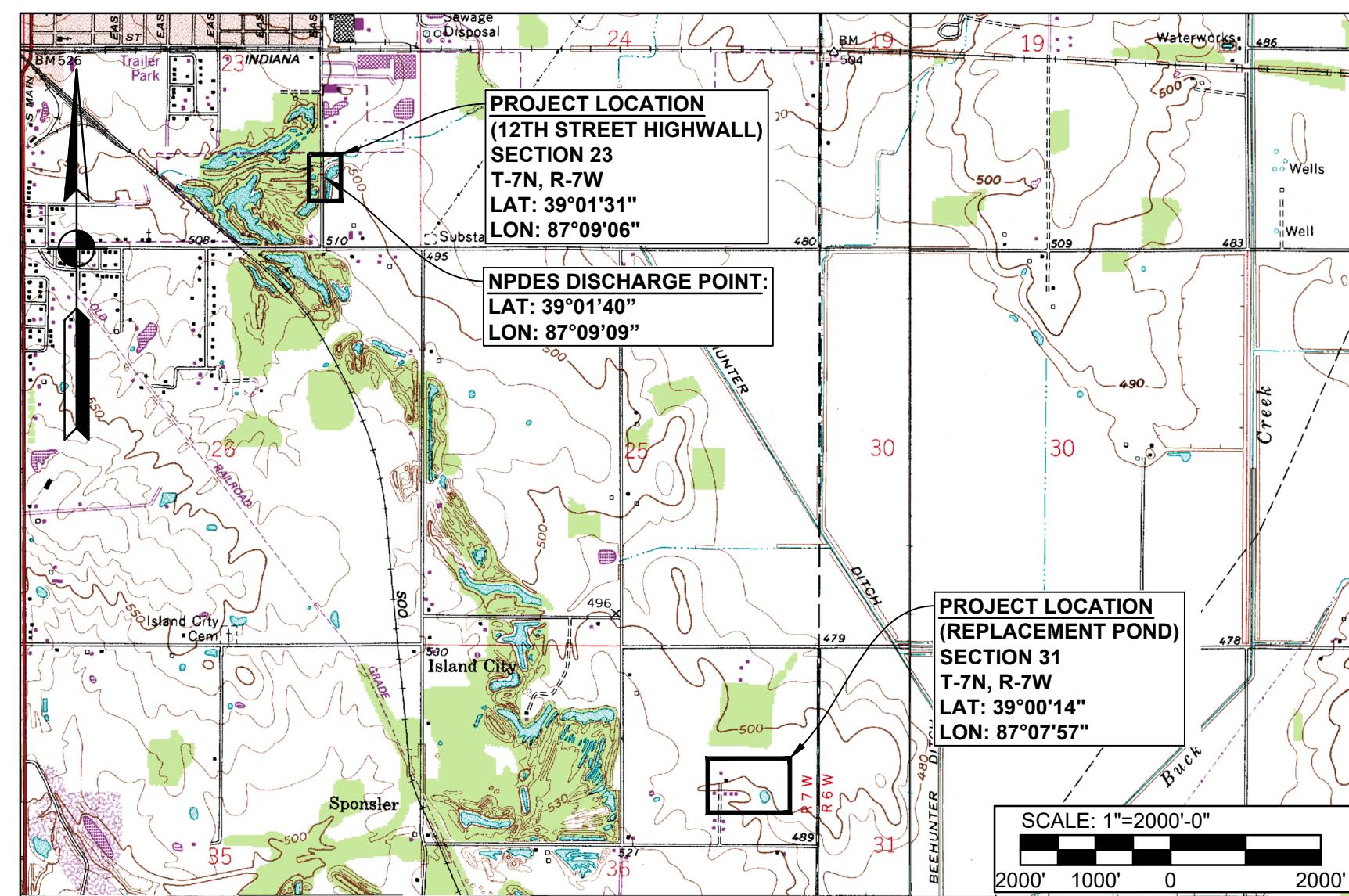
## STATE OF INDIANA INDIANA DEPARTMENT OF NATURAL RESOURCES DIVISION OF RECLAMATION



### ABANDONED COAL MINE RESTORATION

12TH STREET HIGH WALL  
SITE 1836  
CONTRACT DEL2415208251 /E008-338  
GREENE COUNTY

Clear and grub, backfill highwall, improve drainage, replace guardrail, revegetate all disturbed areas, and construct replacement water body



PROJECT LOCATION MAP  
LINTON & SWITZ CITY US TOTP (USGS, 2018)

## GENERAL NOTES

2022 AML Standard Specifications to be used with these plans

Plans developed from Site Survey shot in by Hennessy Surveying, Inc. in NAD 83, Indiana State Plane West, Feet and NAVD88 ELV.

An NPDES discharge permit is required for this project. Additional NPDES discharge points can be added to facilitate construction sequencing

## INDEX

### SHEET NO. SHEET TITLE

1	TITLE, INDEX & LOCATION MAP
2	EXISTING SITE MAP
3	PROPOSED SITE PLAN
4-5	SECTION VIEWS
6	REVEGETATION PLAN
7	MISC. DETAILS
8	REPLACEMENT POND PLAN VIEW
9	REPLACEMENT POND PLAN VIEW
10-11	SECTION VIEWS
12	SECTIONS DETAIL

## UTILITIES

The facilities of the following utilities exist near the project site but are not expected to be affected by the proposed construction. If questions arise, the utility may be contacted using the information below.

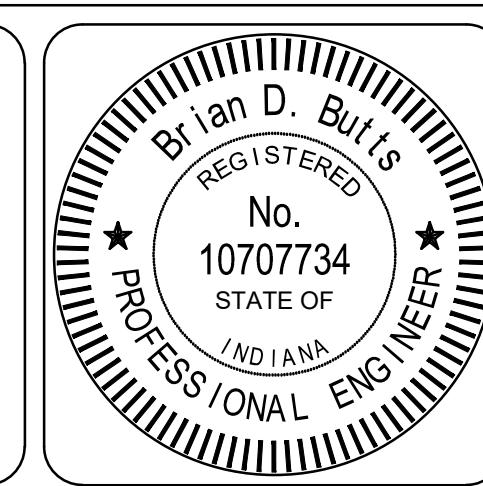
Electric/Gas/Water: Linton Municipal Utilities 86 S Main St. Linton, IN, 47441 Phone: (812)847-4971  
Telecom: Clay County Rural Telephone DBA Endeavor Communications P.O. Box 237 Cloverdale, IN 46120 Phone: (800)922-6677

Water: Ellis Water Co. Inc. 3030 N, IN-59 Linton, IN 47441 Phone: (812)847-9898  
Telecom: AT&T Distribution 5657 S US Hwy 41 Terre Haute, IN 47802 Phone: (800)924-9420

Greene Co. Hwy. Dept: 847 Co. Rd. 800 Switz City, IN 47465 Ron Wigginton (812)798-0352



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PLANS  
PREPARED BY: COMMONWEALTH ENGINEERS (812) 474-1177  
PHONE NUMBER  
CERTIFIED BY: Brian D. Buffo 03/12/2024  
DATE  
APPROVED  
FOR LETTING: MM/DD/YYYY  
DATE

SCALE	SHEET
AS NOTED	1 OF 12
PROJECT	SITE

E008-338 1836

**LEGEND**

- PROJECT LIMITS
- EX. RIPRAP FEATURE
- EXISTING WATER
- EX. OVERHEAD ELECTRIC
- EX. OVERHEAD TELEPHONE
- EX. GAS LINE
- EX. WATER LINE
- GEOTECH DRILLING POINTS
- INDICATES PHOTO NUMBER AND DIRECTION OF PHOTO
- EXISTING BUILDING/STRUCTURE
- EXISTING PAVED ROAD/DRIVE
- EXISTING UNPAVED ROAD/DRIVE
- EXISTING FLOW LINES

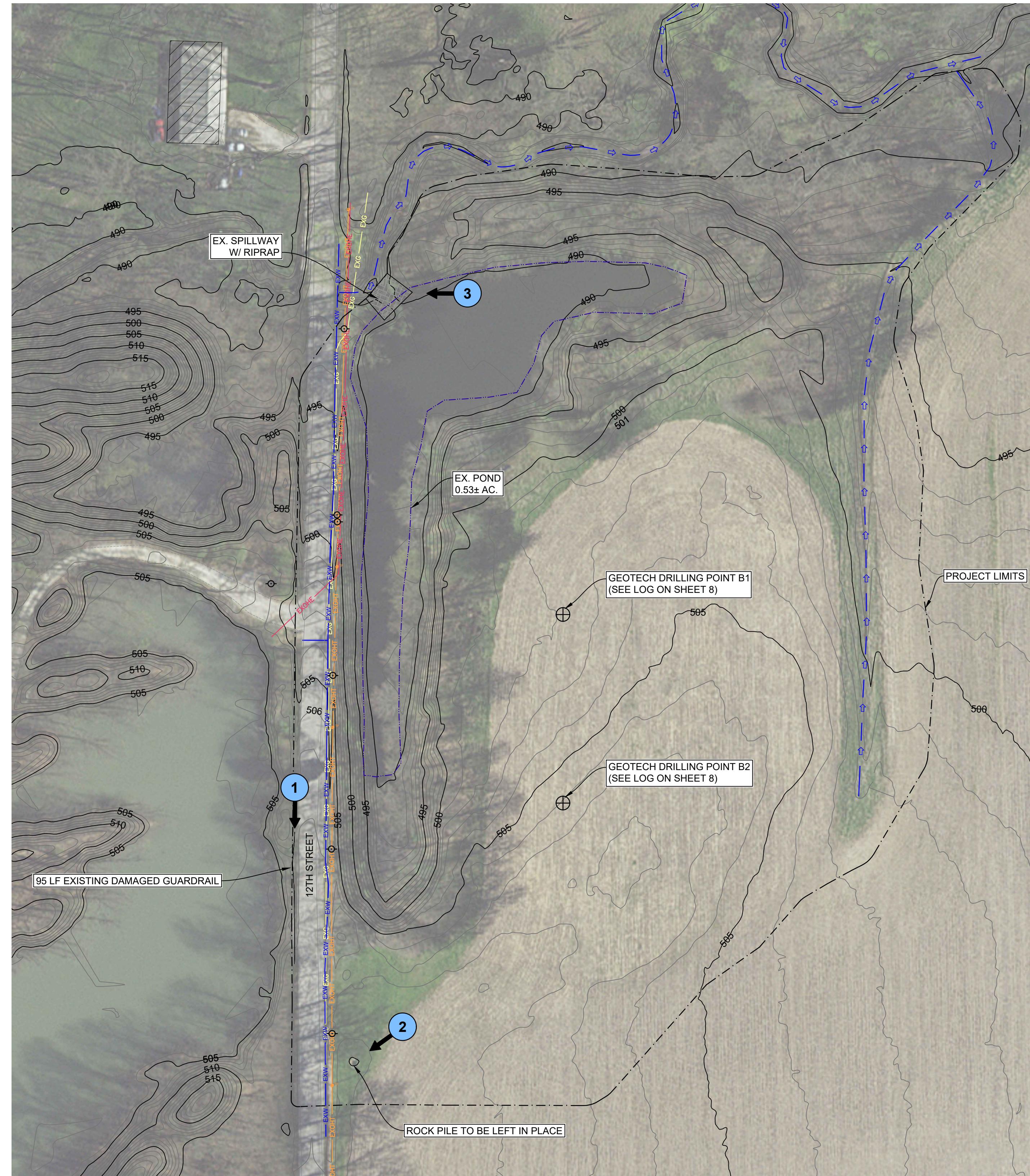


SCALE: 1"=50'-0"  
50' 30' 10' 0' 50'

GEOOTECH DRILLING COORDINATES		
	POINT B1	POINT B2
NORTHING	2933250	2933250
EASTING	1375922	1375786



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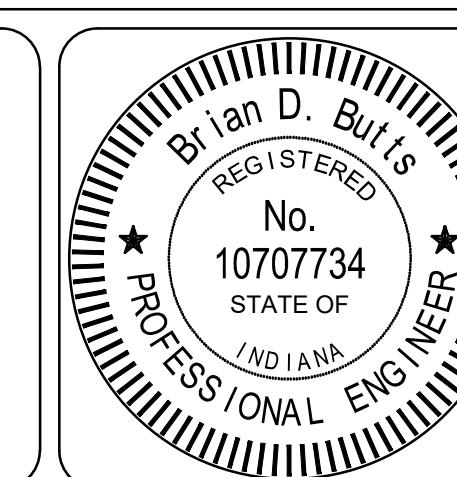
1 EX. DAMAGED GUARDRAIL WEST SIDE OF 12TH ST  
LOOKING SOUTH



2 EX. ROCK PILE TO BE LEFT IN PLACE  
EAST SIDE OF 12TH STREET  
LOOKING SOUTH WEST



3 EX. SPILLWAY LOOKING WEST  
EAST SIDE OF 12TH STREET



RECOMMENDED  
FOR APPROVAL:

*Brian D. Butts*

03/12/2024  
DATE

DATE MADE

03/12/2024

EXISTING SITE MAP

SCALE

1" = 50'

SHEET

2 of 12

DESIGNED BY  
BDB

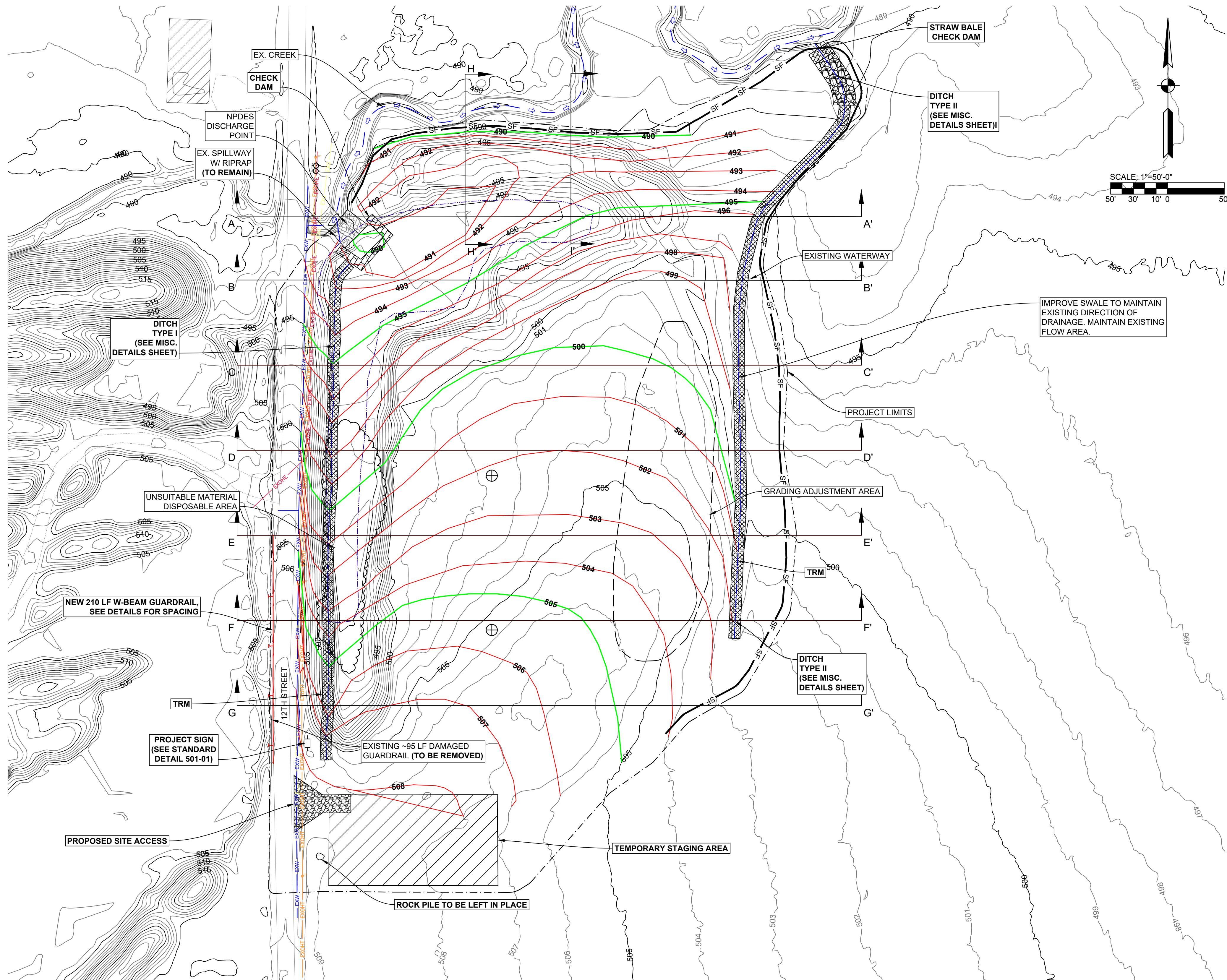
DRAWN BY  
SAC

DATE REVISED  
03/12/2024

STATE OF INDIANA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF RECLAMATION

PROJECT  
E008-338

SITE  
1836



#### GENERAL NOTES

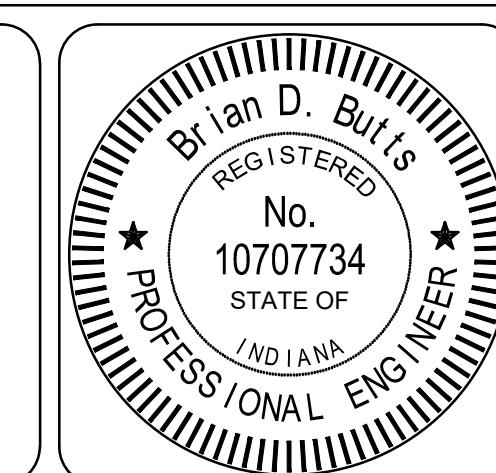
- 1) The contractor is not to disturb the existing creek bank.
- 2) Excavate and install construction entrance with 6 inches of No. 73 compacted aggregate on 6 inches of No. 2 coarse aggregate on geotextile. The construction entrance shall be 50 feet in width at 12th Street and taper to 16 feet in width over a distance of approximately 25 ft (Contractor to include this work in Lump Sum).
- 3) Temporary Staging Area (maximum limits shown) to be removed after project completion. Contractor shall remove all stone and geotextile placed and used for his temporary purpose during demobilization.
- 4) Clear and Grub, chip trees, remove and grind stumps. Wood chips to be incorporated into the prairie mix areas no more than 4" spread thickness. Remaining wood chips to be hauled off site to the city of Linton disposal facilities or the Green-Sullivan State Forest as directed by the Engineer
- 5) The contractor shall strip and stockpile all topsoil I: the darkened surface soils from within the current crop area. The soil shall be stockpiled within the construction boundary limits identified on the drawings. Topsoil removal material shall consist of fertile, friable, organic surface soil stripped from the site and shall be free of subsoil, brush, turf grasses, weeds, roots, stumps and stones larger than 4 inches in diameter and other contaminated matter. The Topsoil shall be stockpiled to be reused and re-spread upon the regraded surface. The topsoil stockpile shall be properly protected against water and wind erosion. At a minimum, 6 inches of topsoil shall be salvaged.
- 6) Regrade loose fill 4 ft deep from final grade and revegetate as noted in the revegetation plan. Place large boulders in a single pile at a location approved by the engineer.
- 7) Existing water body to be filled with approved materials from the cut area per standard specifications.
- 8) The existing open channel spillway to remain, the rip rap lined structure will become the final discharge point for the reclaimed area. The remnant pond dam is to remain intact to control the discharge of water through the spillway
- 9) Should contractor expose any fire clay or similar acid producing materials during excavation, then the Contractor shall not excavate below this elevation unless approved by the Engineer. If such material is excavated, then it shall be placed within the unsuitable material disposal area and shall have a minimum of 4 feet of cover above and on the sides with suitable material to the proposed final surface elevation.
- 10) Reshape the existing waterway such that it is traversable by farm equipment throughout its length in the crop field. Place TRM and establish 8 ft minimum grass strips on either side.
- 11) Any cut/fill adjustments shall occur within the designated areas and must not create any grade that exceeds:
  - 3.5% in the existing crop field
  - 4h:1v slopes elsewhere
- 12) Any cut/fill adjustments must maintain positive drainage patterns away from the adjustment areas. All significant adjustments in elevation and grade shall require approval of the Engineer.
- 13) Any accumulated trash to be hauled to landfill by Contractor.
- 14) The locations of existing underground utilities, such as water mains, sewer, gas lines, etc., as shown on the plans have been determined from the best available information and is given for the convenience of the contractor. However, the engineer and the owner do not assume responsibility for the accuracy of the locations shown. It shall be the responsibility of the contractor to contact all utility companies and their facilities shall be located prior to commencement of any work.
- 15) Prior to construction the contractor is to call INDIANA 811.
- 16) All public street construction shall meet performance standards of the current edition of the INDIANA Department of Transportation Standard Specifications.
- 17) Street signage shall be included in accordance with the MUTCD requirements applicable at the time of construction.
- 18) Contractor to repair any road damage caused by construction activities to as good or better condition. Pre-construction video of the roads shall be taken by contractor prior to construction.
- 19) Contractor to protect overhead utility lines.
- 20) Turf Reinforcement Mat (TRM) per Section 608.07 of the Standard Specification.
- 21) Install TRM after completion of grading to mitigate erosion in areas of potential concentrated flow as shown.

#### LEGEND

500	EXISTING CONTOUR	500	PROPOSED CONTOUR
500	EXISTING WATER	500	PROJECT LIMITS
■■■■■	EXISTING BUILDING/STRUCTURE	⊕	GEOTECH DRILLING POINT
—	EXISTING PAVED ROAD/DRIVE	▨▨▨▨	PROPOSED STRAW BALES
—	EXISTING UNPAVED ROAD/DRIVE	◆◆◆◆	PROPOSED AGGREGATE FEATURE
—	EXISTING GUARDRAIL	◆◆◆◆	PROPOSED RIPRAP FEATURE
○	UTILITY POLE	—	CUT/FILL ADJUSTMENT AREA
—	EXISTING FLOW LINES	○○○○	DISPOSAL (MATERIAL AS NOTED)
◆◆◆◆	EXISTING RIPRAP FEATURE	▨▨▨▨	STAGING AREA
□	PROPOSED PROJECT SIGN	—	PROPOSED FLOWLINE
—	PROPOSED GUARDRAIL	▨▨▨▨	TURF REINFORCEMENT MAT
SF	PROPOSED SILT FENCE		



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RECOMMENDED  
FOR APPROVAL:

*Brian D. Butt*  
03/12/2024  
DATE

DESIGNED BY  
BDB

DRAWN BY  
SAC

DATE MADE  
03/12/2024

DATE REVISED  
03/12/2024

PROPOSED SITE PLAN

STATE OF INDIANA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF RECLAMATION

SCALE  
1" = 50'

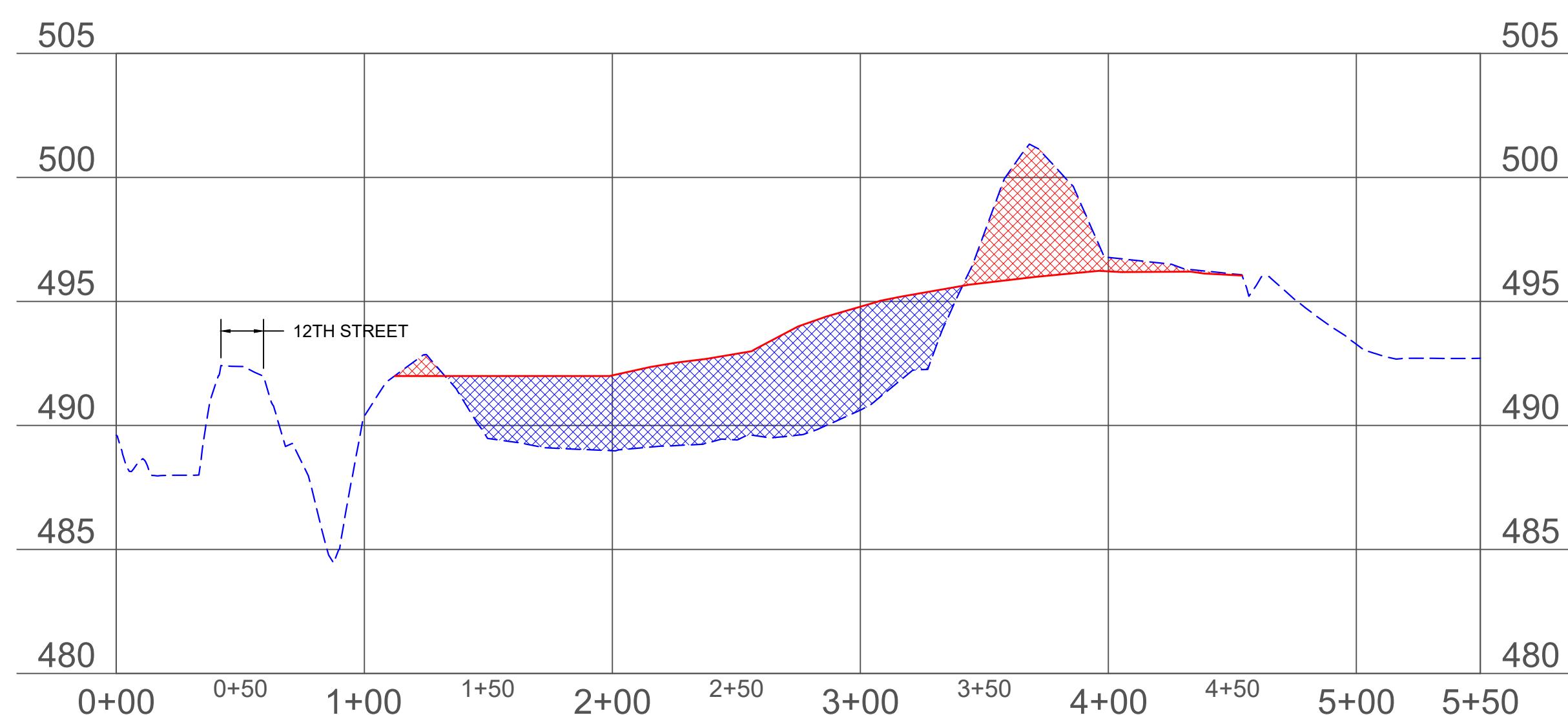
PROJECT  
E008-338

SHEET  
3 of 12

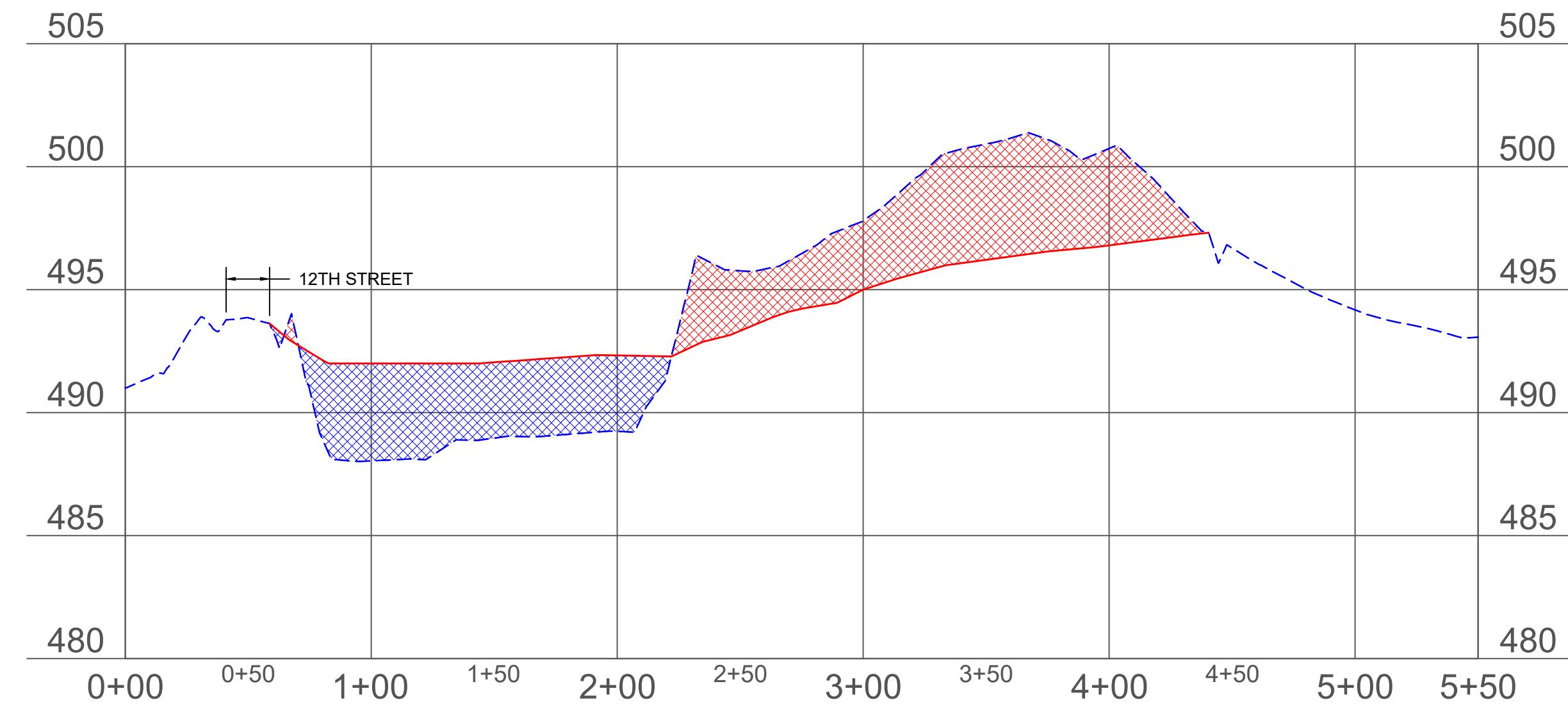
SITE  
1836

**LEGEND**

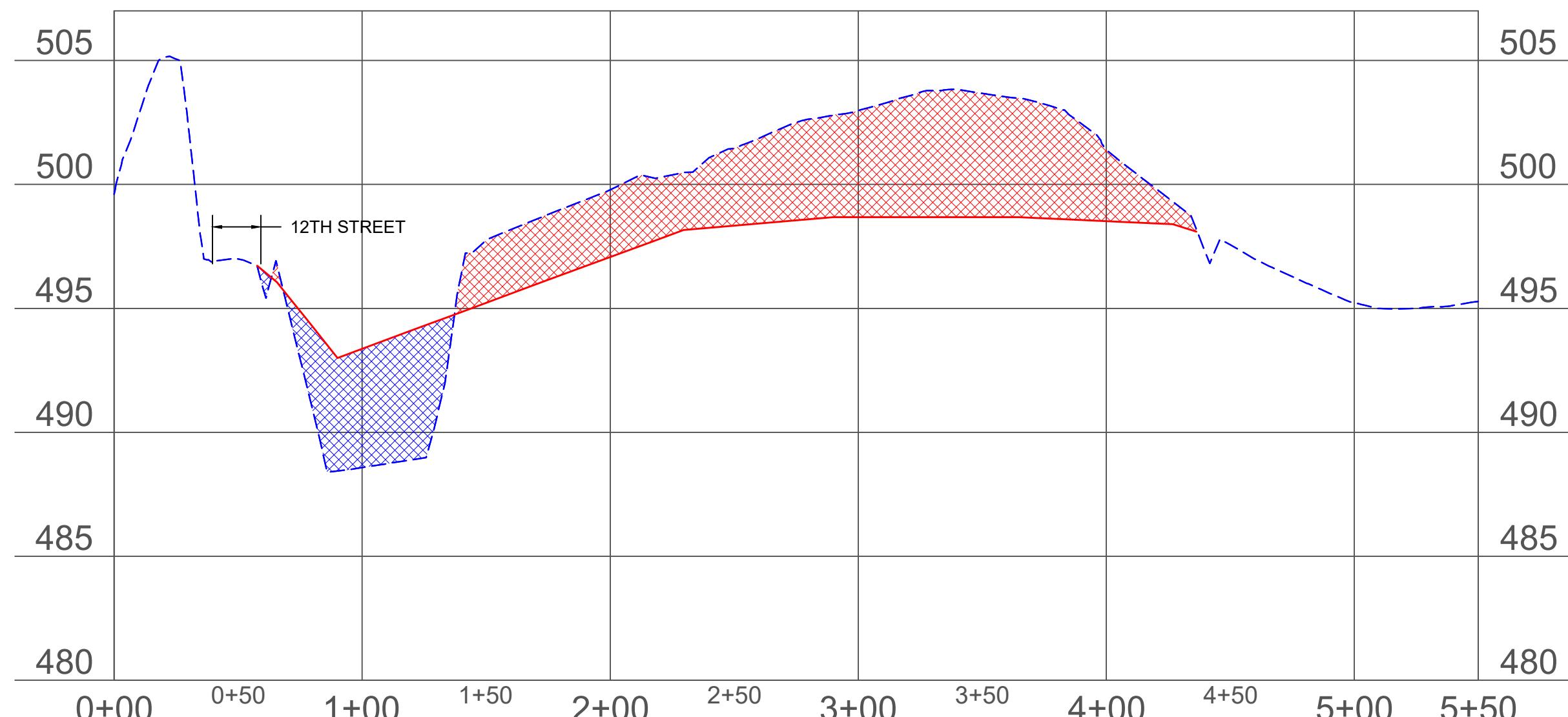
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- DESIGN GRADE
- ▨ CUT
- ▨ FILL



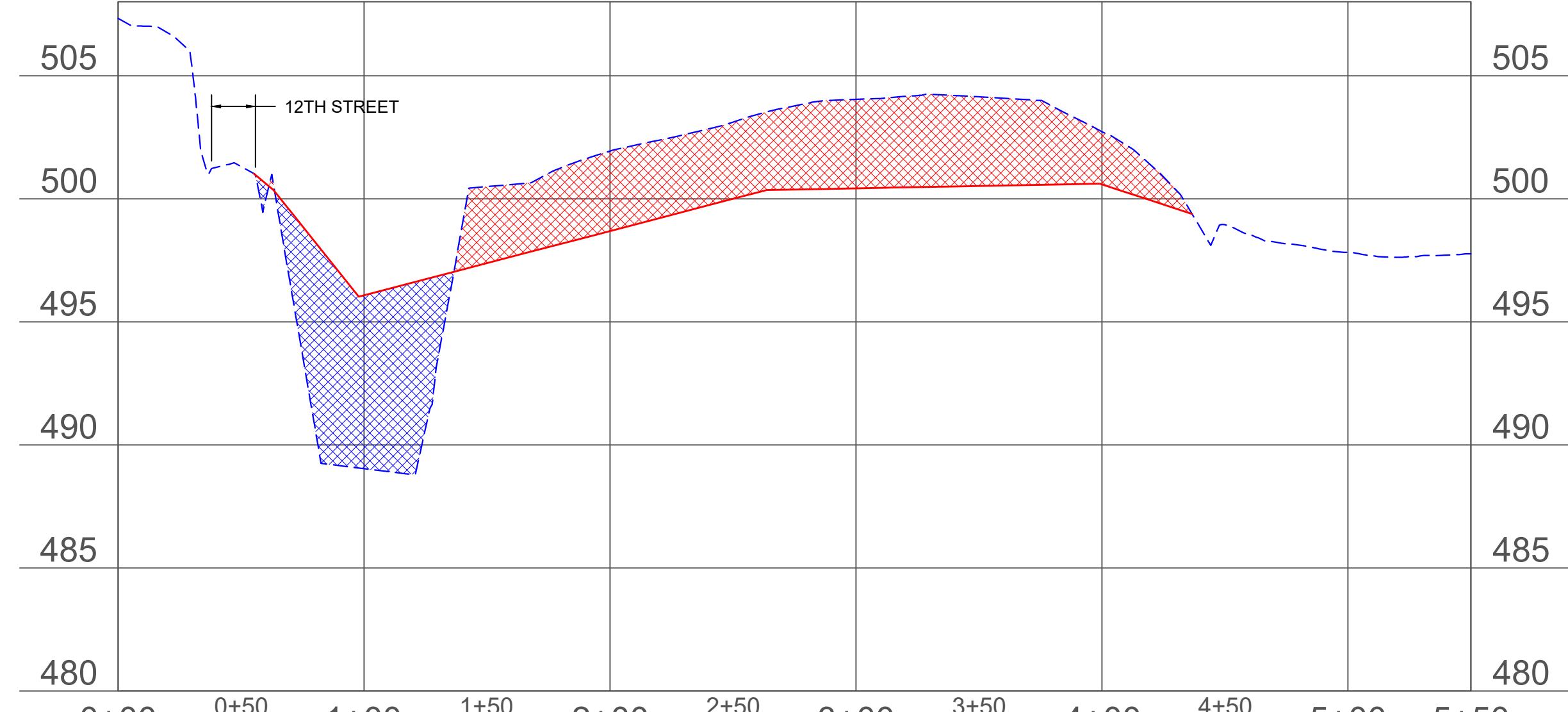
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HORIZONTAL SCALE 1"=50'  
VERTICAL SCALE: 1"=5'



**SECTION VIEW LINE (B-B')**  
HORIZONTAL SCALE 1"=50'  
VERTICAL SCALE: 1"=5'



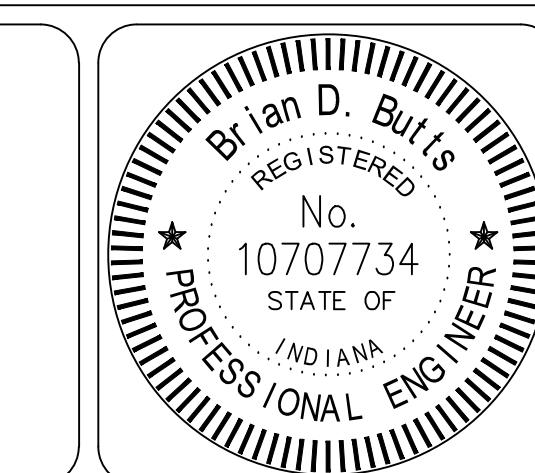
**SECTION VIEW LINE (C-C')**  
HORIZONTAL SCALE 1"=50'  
VERTICAL SCALE: 1"=5'



**SECTION VIEW LINE (D-D')**  
HORIZONTAL SCALE 1"=50'  
VERTICAL SCALE: 1"=5'



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SECTION VIEWS

SCALE  
1" = 50'

SHEET  
4 of 12

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03/12/2024

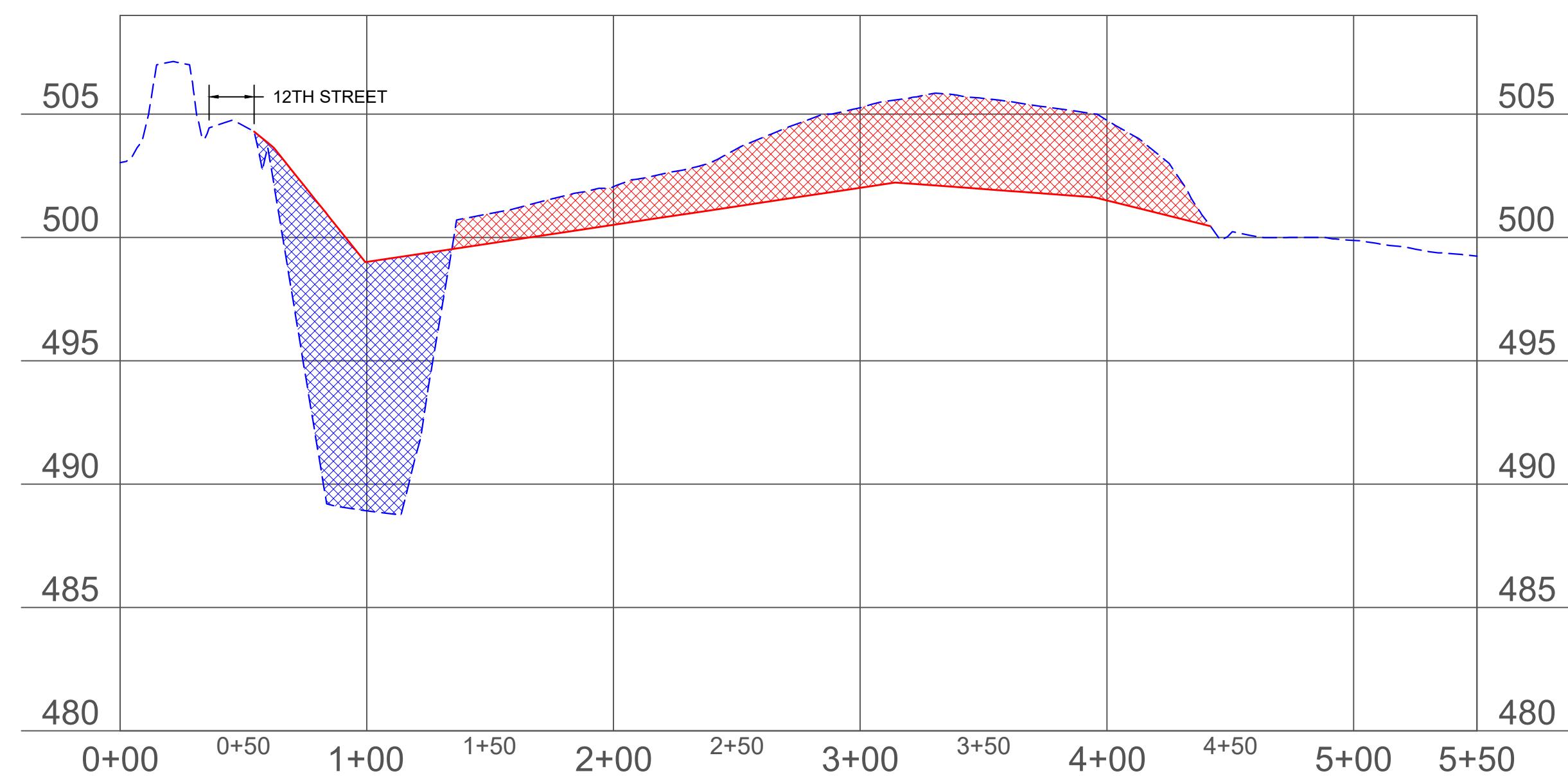
STATE OF INDIANA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF RECLAMATION

PROJECT  
E008-338

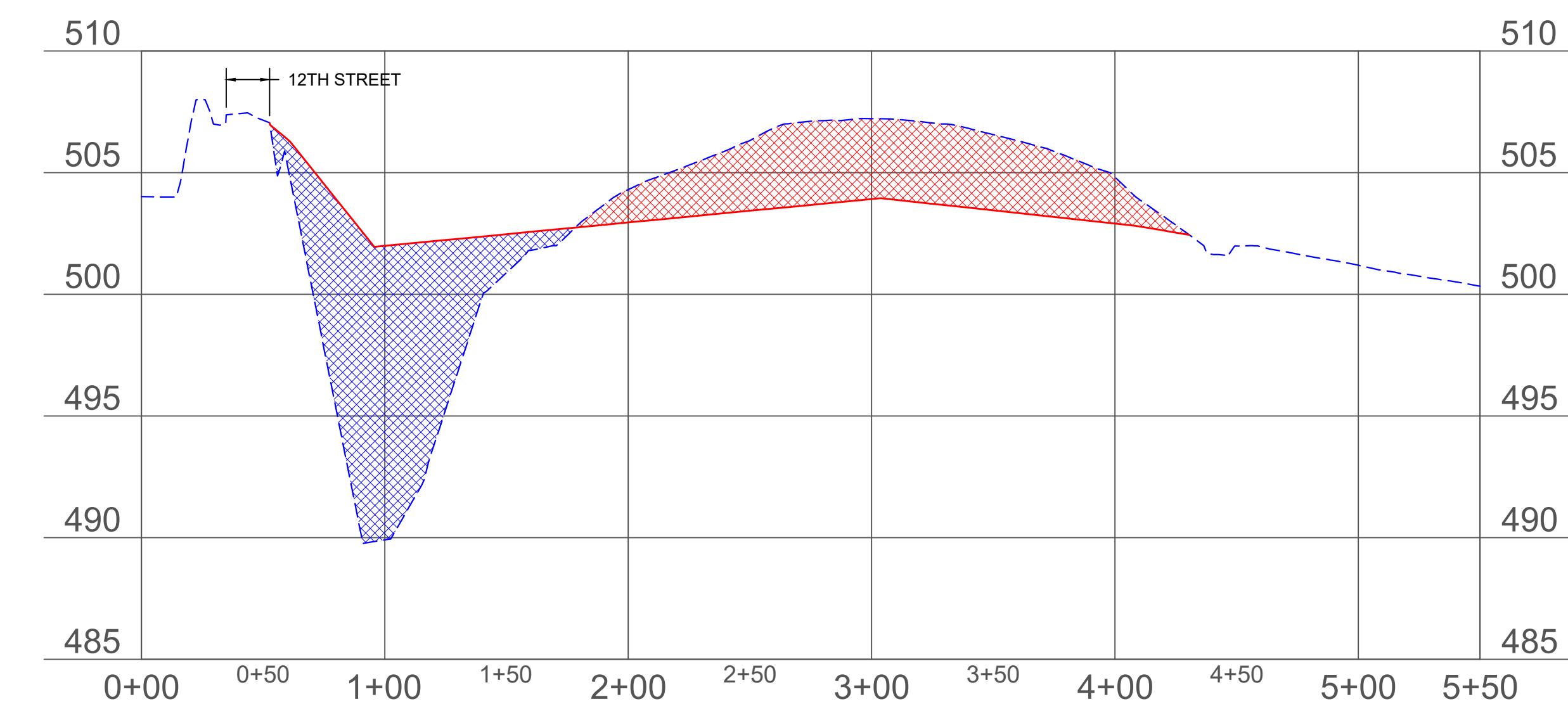
SITE  
1836

**LEGEND**

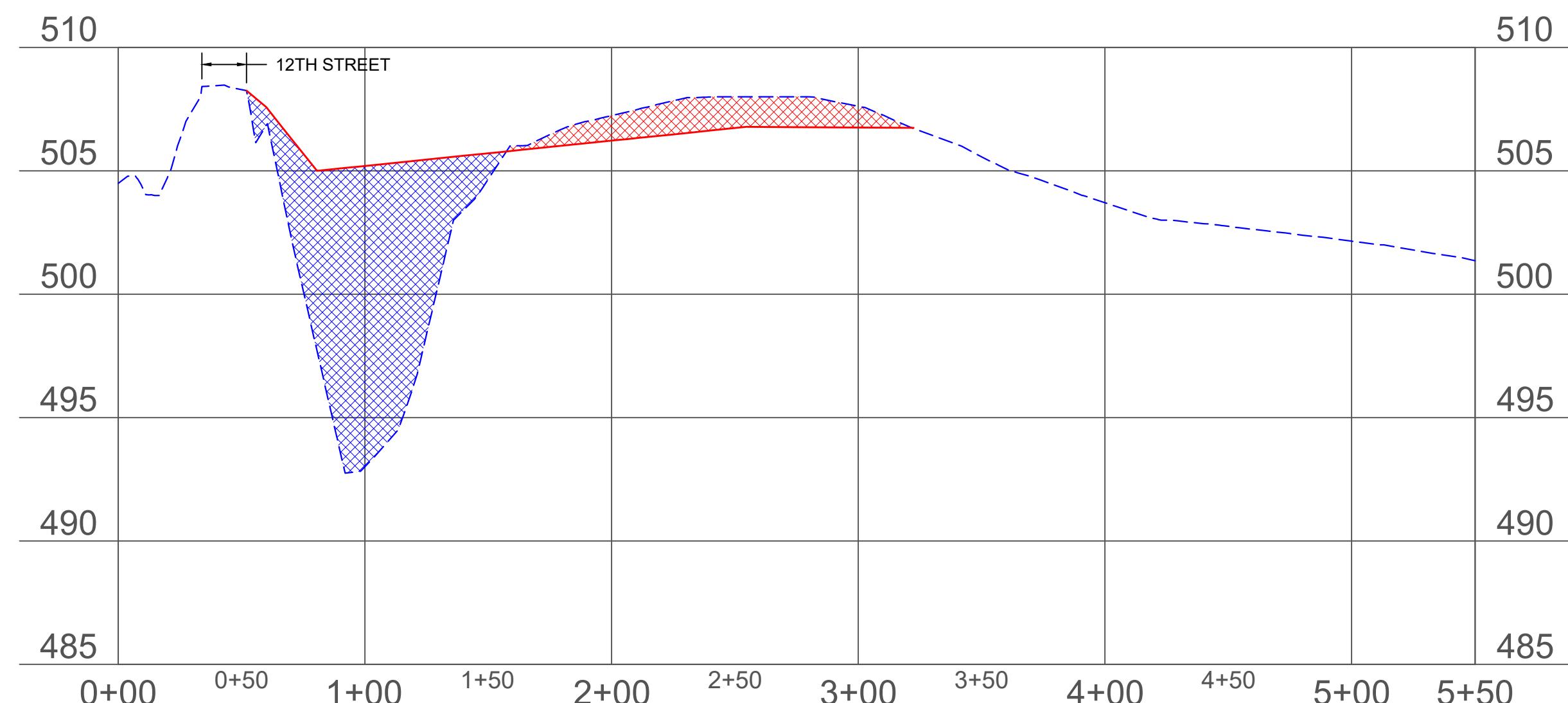
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- DESIGN GRADE
- ▨ CUT
- ▨ FILL



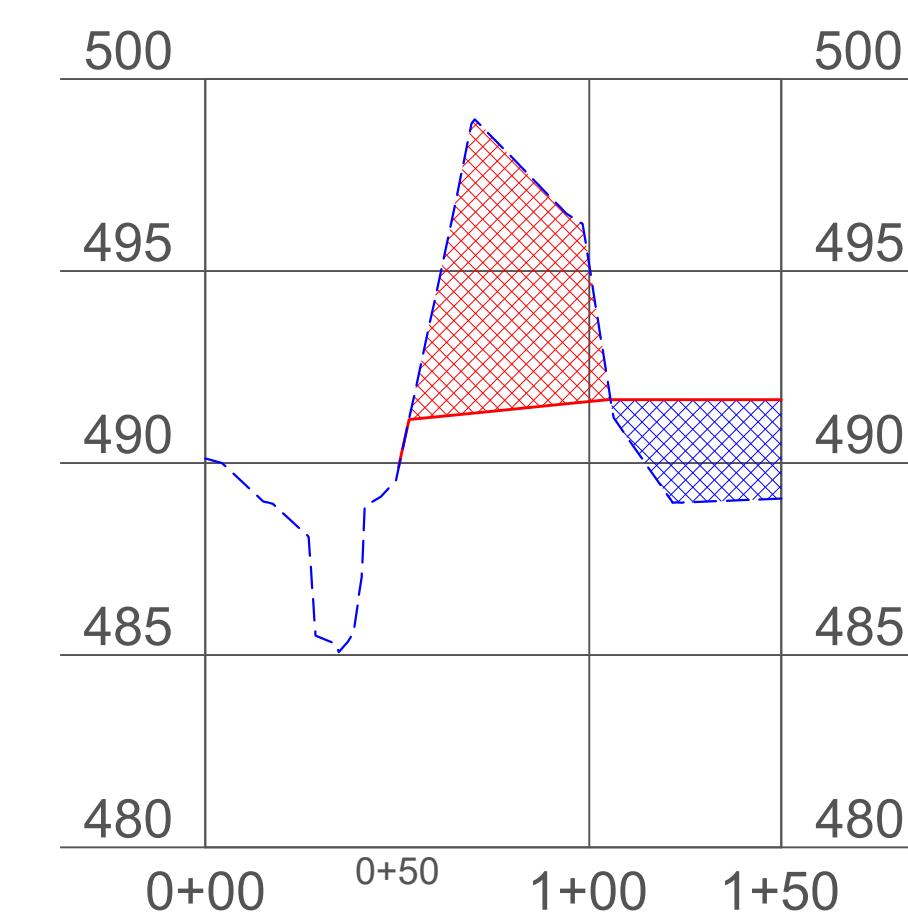
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VERTICAL SCALE: 1"=5'



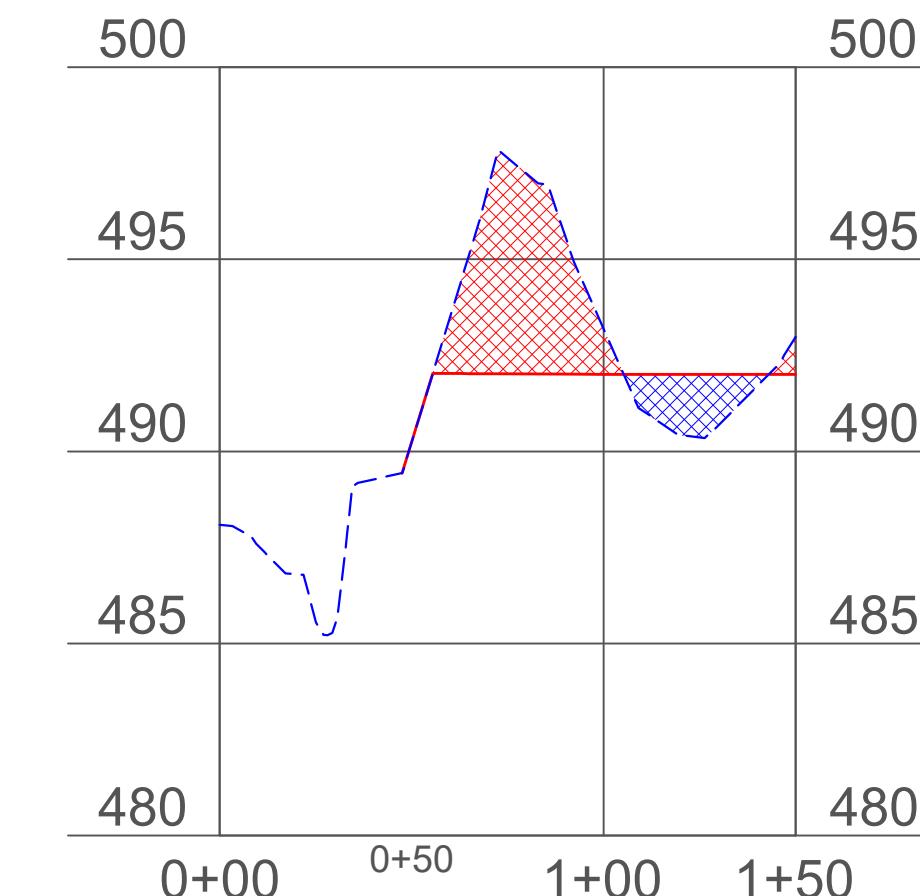
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VERTICAL SCALE: 1"=5'



**SECTION VIEW LINE (G-G')**  
HORIZONTAL SCALE 1"=50'  
VERTICAL SCALE: 1"=5'



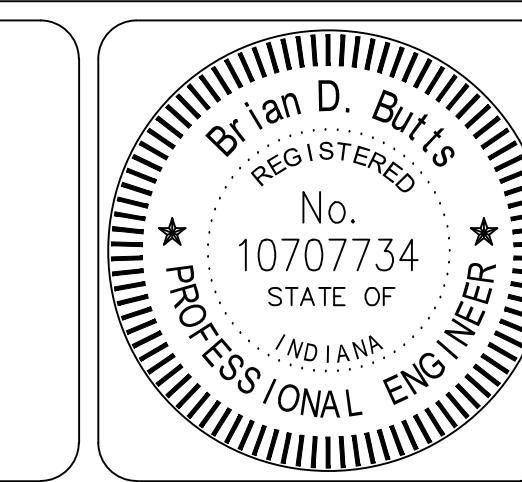
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VERTICAL SCALE: 1"=5'



**SECTION VIEW LINE (I-I')**  
HORIZONTAL SCALE 1"=50'  
VERTICAL SCALE: 1"=5'



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03/12/2024  
DATE

DATE MADE  
03/12/2024

SECTION VIEWS

SCALE  
1" = 50'

SHEET  
5 of 12

DESIGNED BY  
BDB

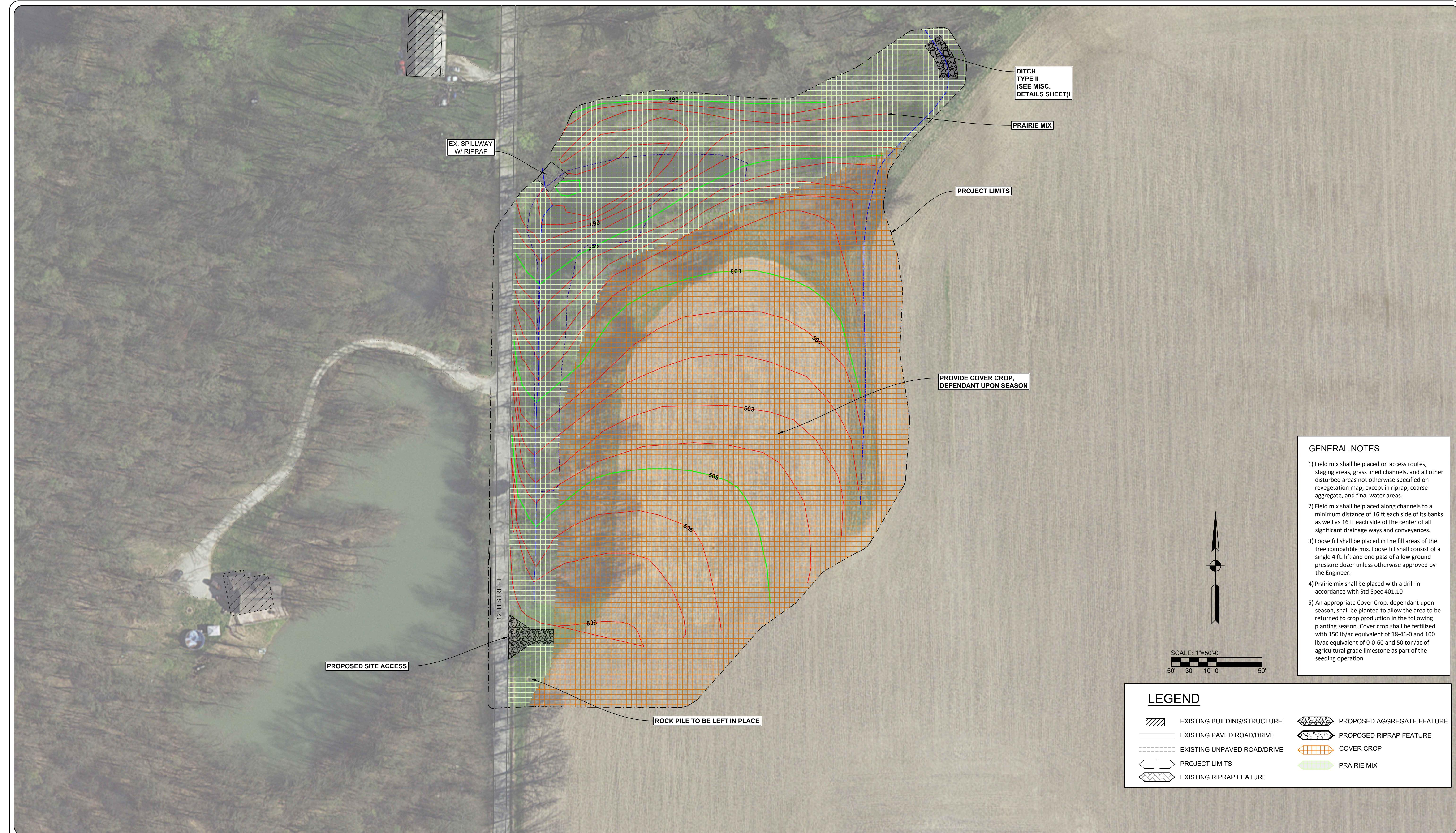
DRAWN BY  
SAC

DATE REVISED  
03/12/2024

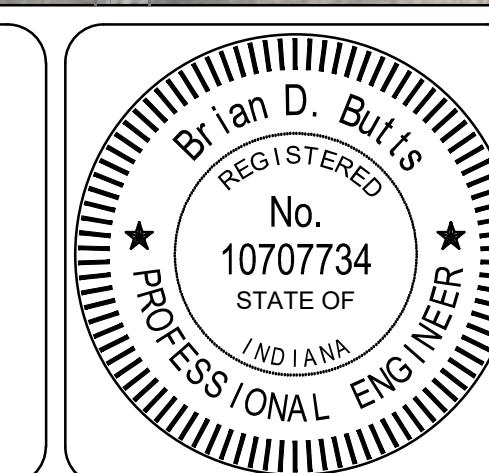
STATE OF INDIANA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF RECLAMATION

PROJECT  
E008-338

SITE  
1836



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*Brian D. Butt's*  
03/12/2024  
DATE

DATE MADE  
03/12/2024

REVEGETATION PLAN

SCALE  
1" = 50'

SHEET  
6 of 12

DESIGNED BY  
BDB

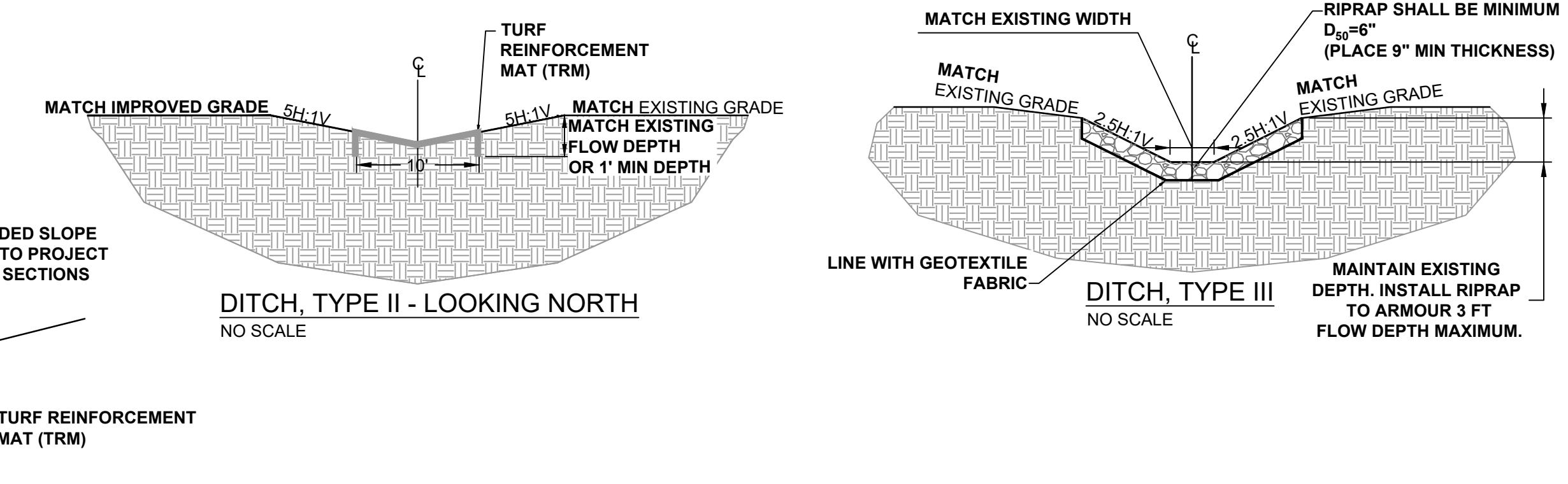
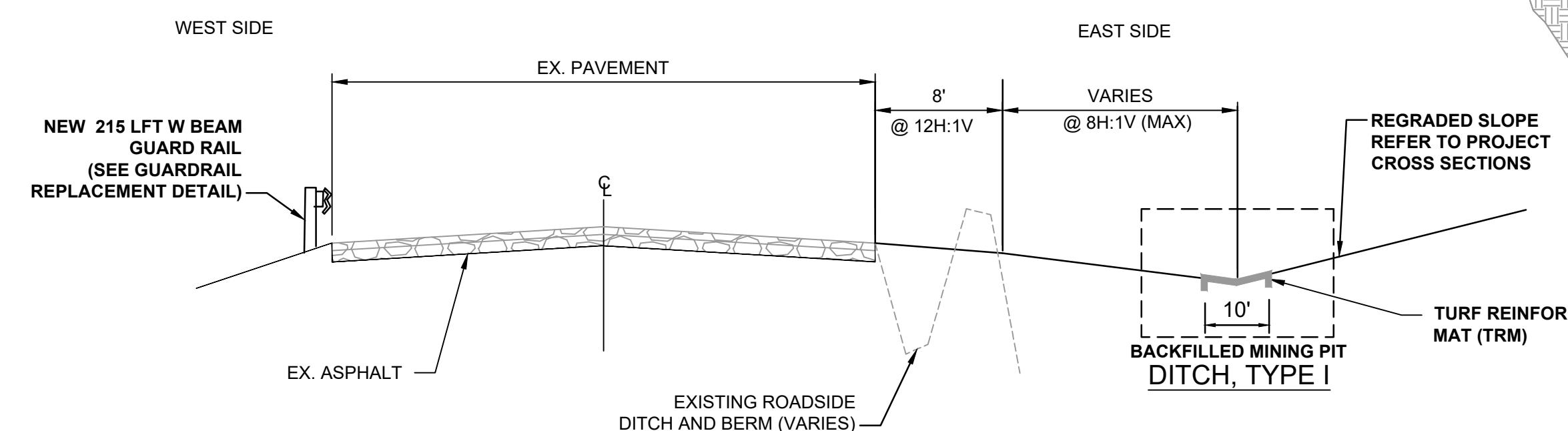
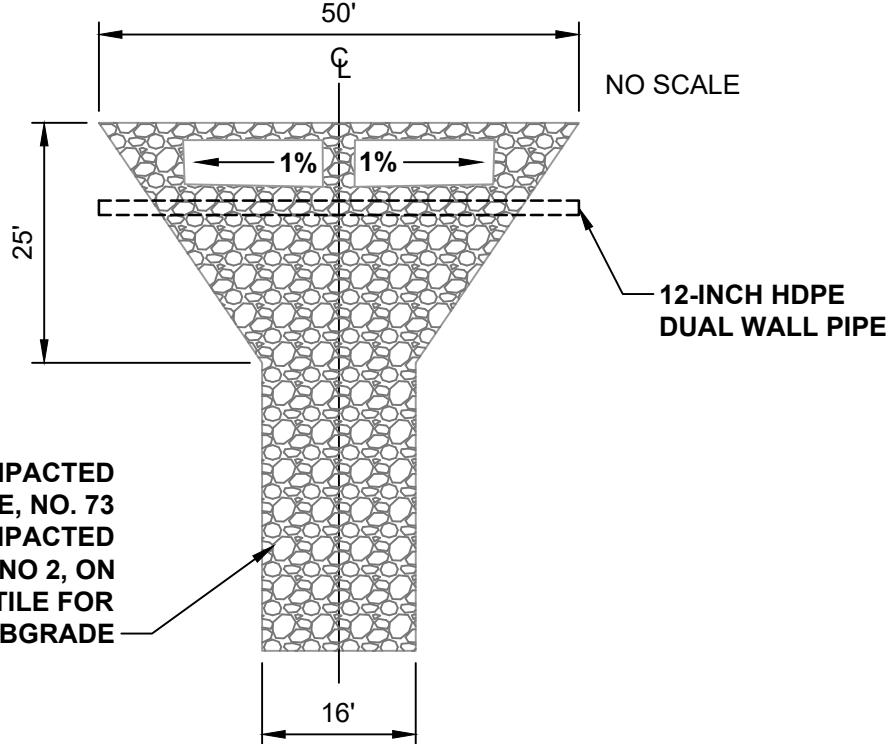
DRAWN BY  
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03/12/2024

STATE OF INDIANA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF RECLAMATION

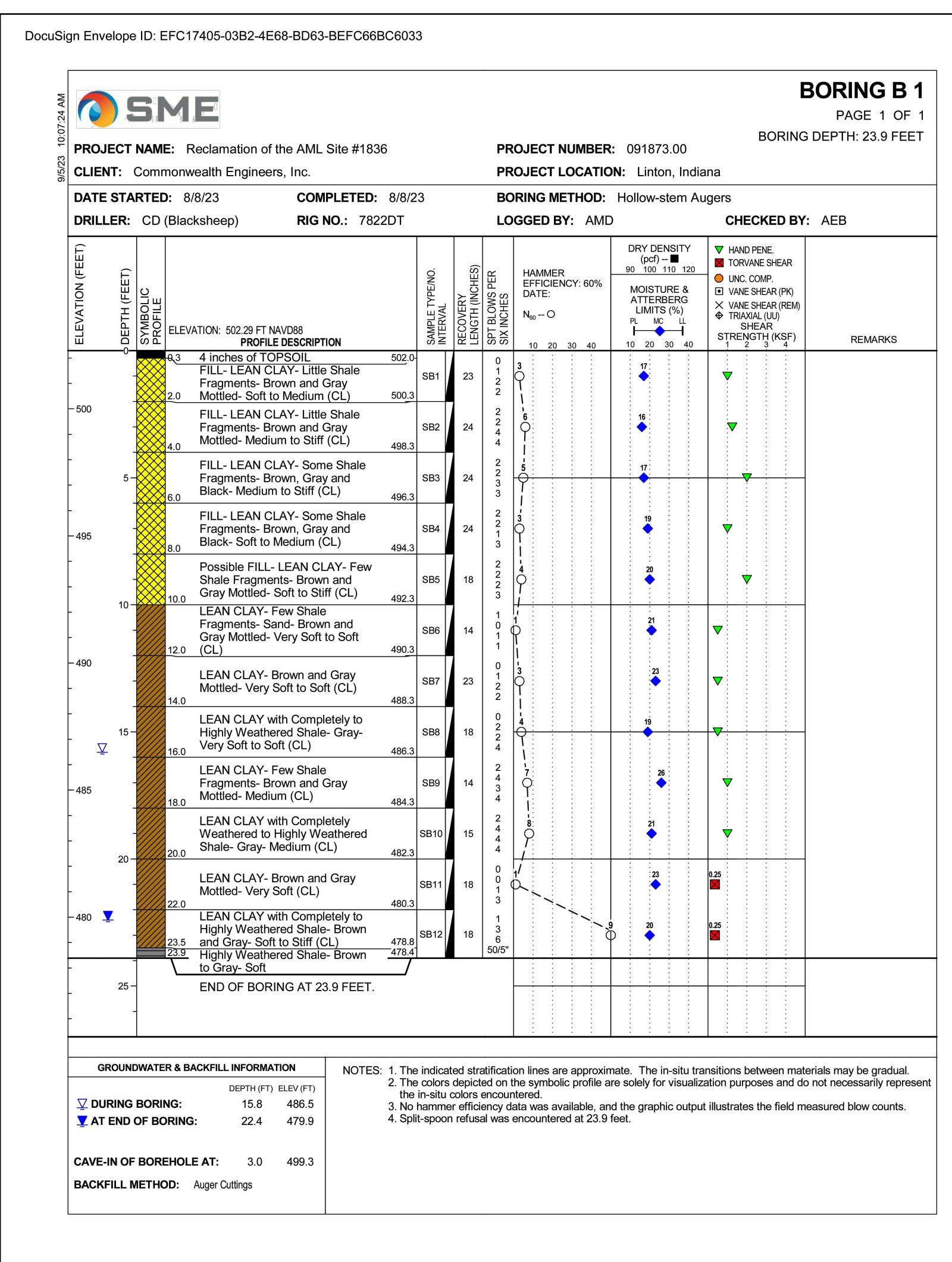
PROJECT  
E008-338

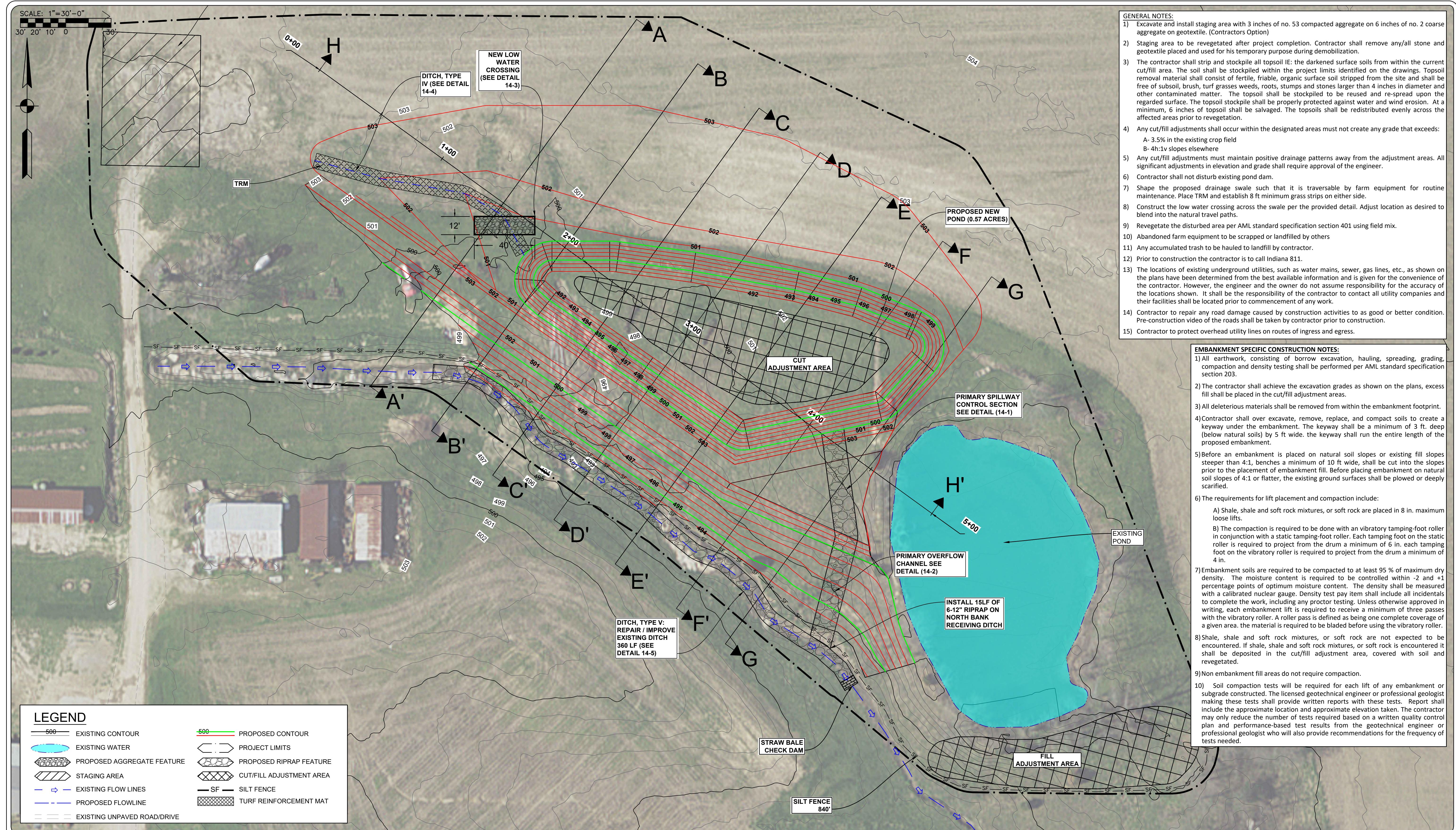
SITE  
1836



### CONSTRUCTION ENTRANCE DETAIL

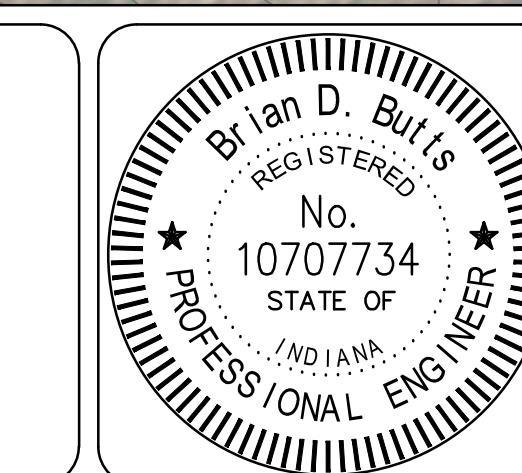
NO SCALE





# COMMONWEALTH ENGINEERS, INC.

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RECOMMENDATION FOR APPROVAL

RECOMMENDED FOR APPROVAL: Brian D. Bello 03/12/2021  
DATE

## DATE MADE

03/12/2024

# REPLACEMENT POND PLAN VIEW

# SCALE

SHEET  
8 OF 12

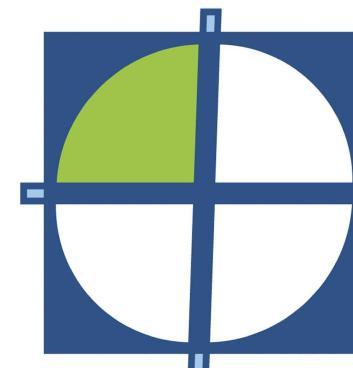
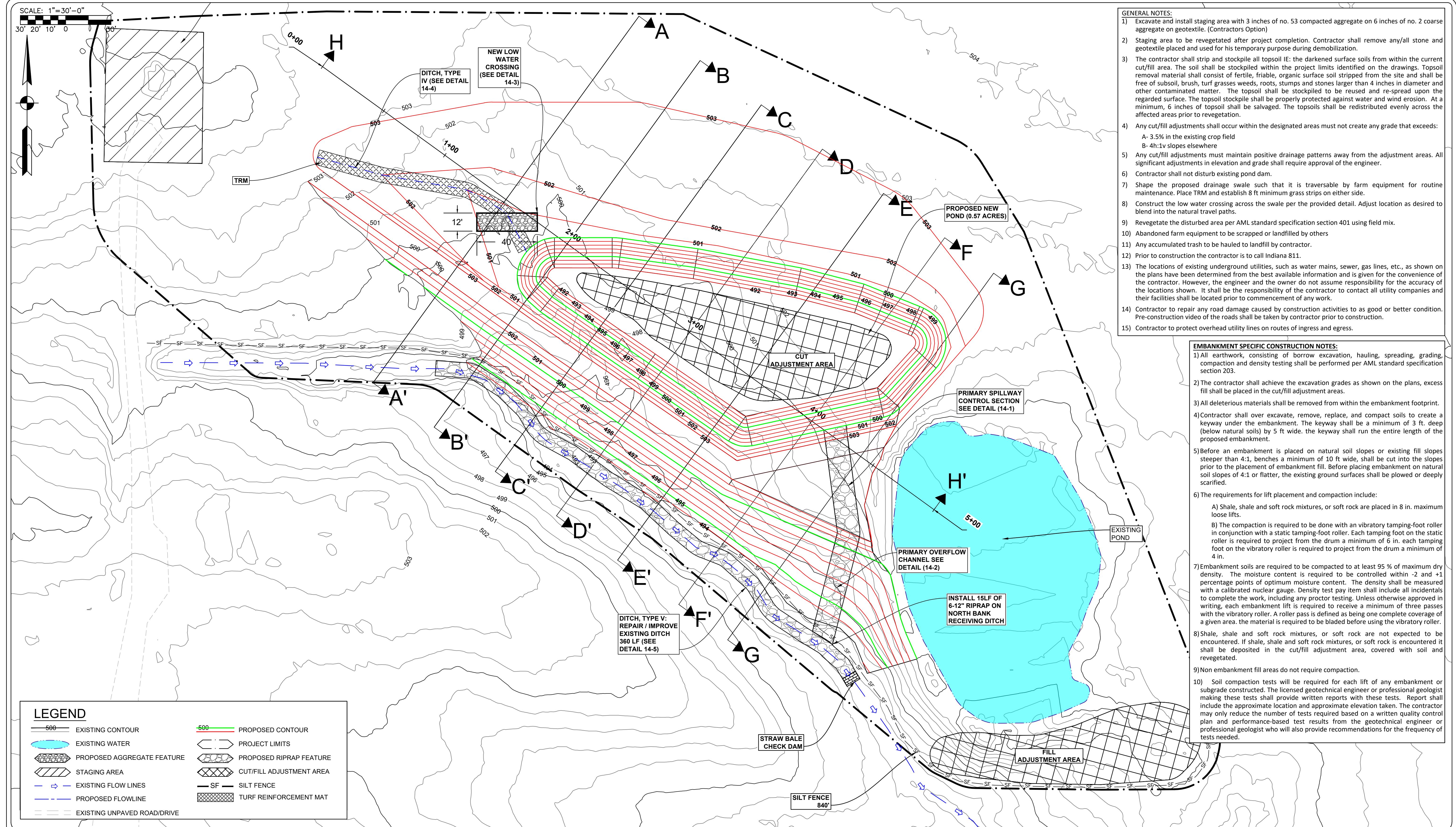
STATE OF INDIANA  
**DEPARTMENT OF NATURAL RESOURCES**  
DIVISION OF RECLAMATION

# PROJECT

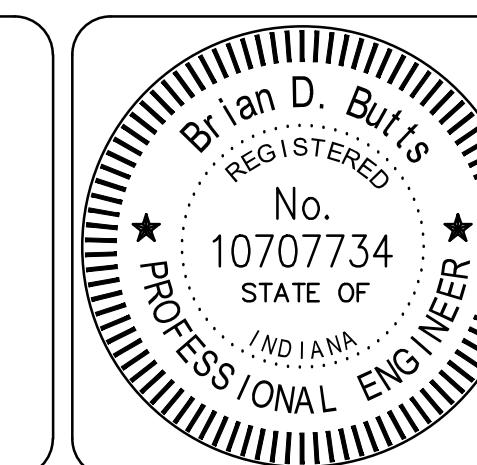
## E008-338

# SITE

# 1836



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Brian D. Butts  
03/12/2024  
DATE

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BDB

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ZAS

DATE MADE  
03/12/2024

DATE REVISED  
03/12/2024

REPLACEMENT  
POND PLAN VIEW

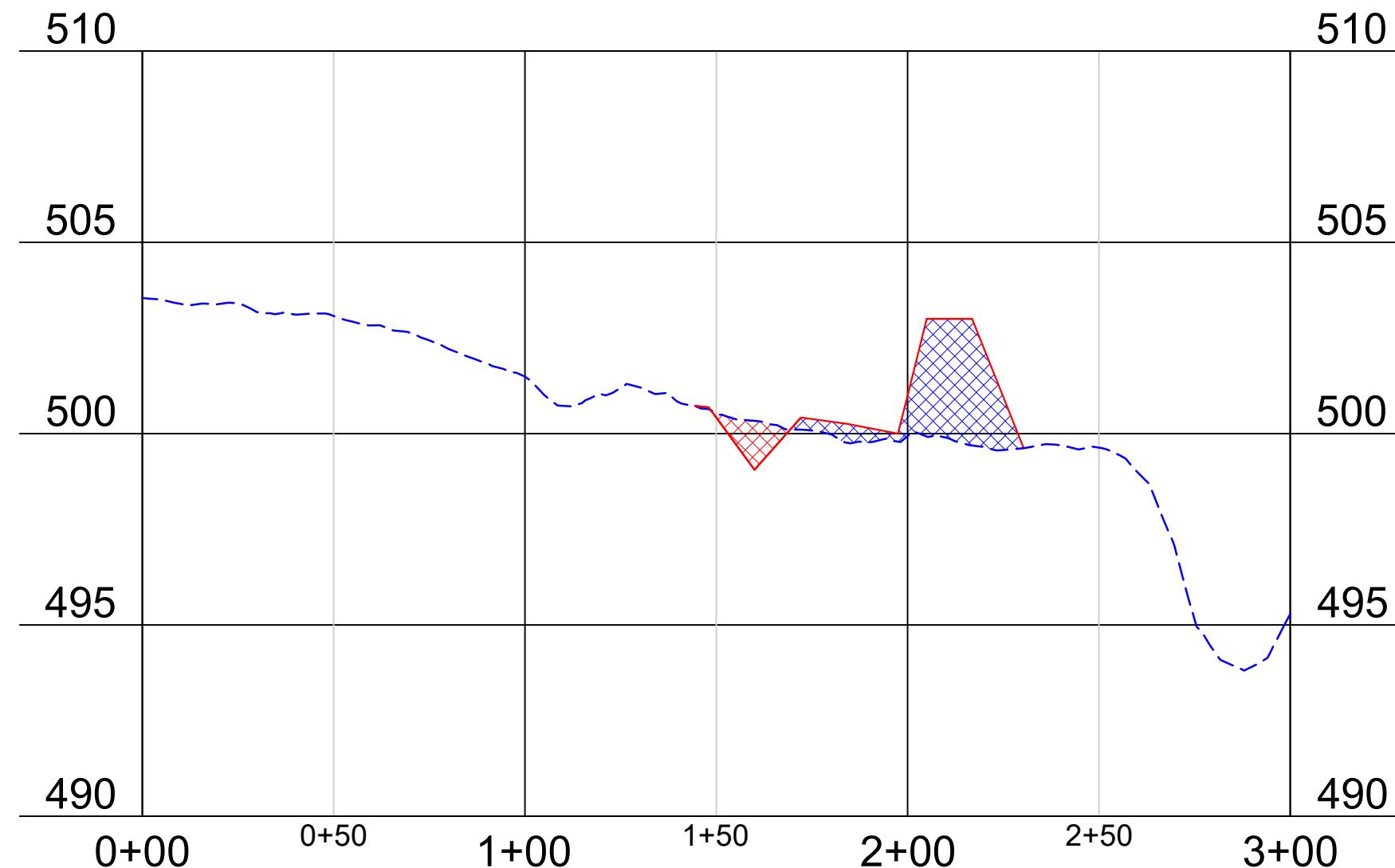
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DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF RECLAMATION

SCALE  
1" = 30'

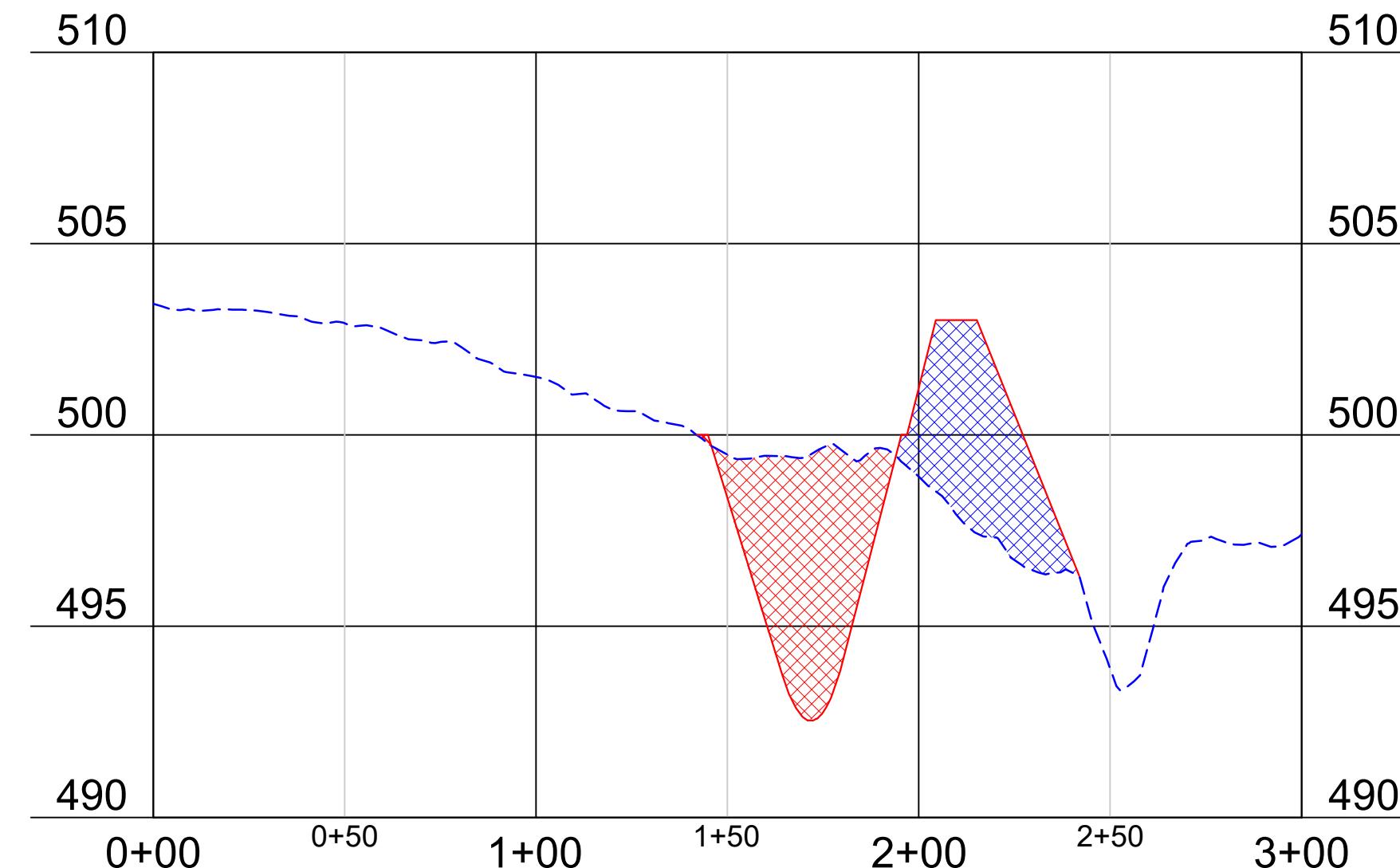
SHEET  
9 OF 12

PROJECT  
E008-338

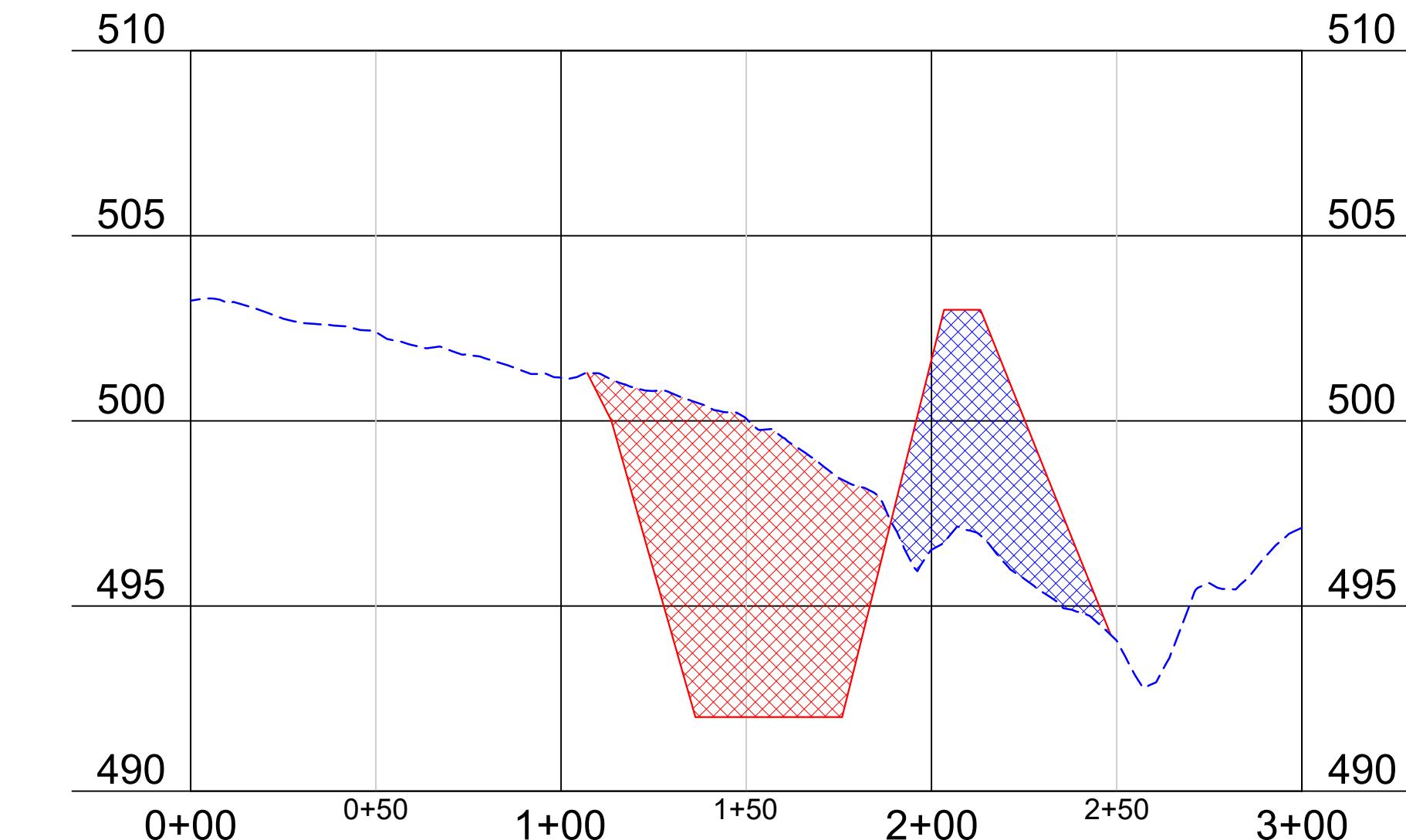
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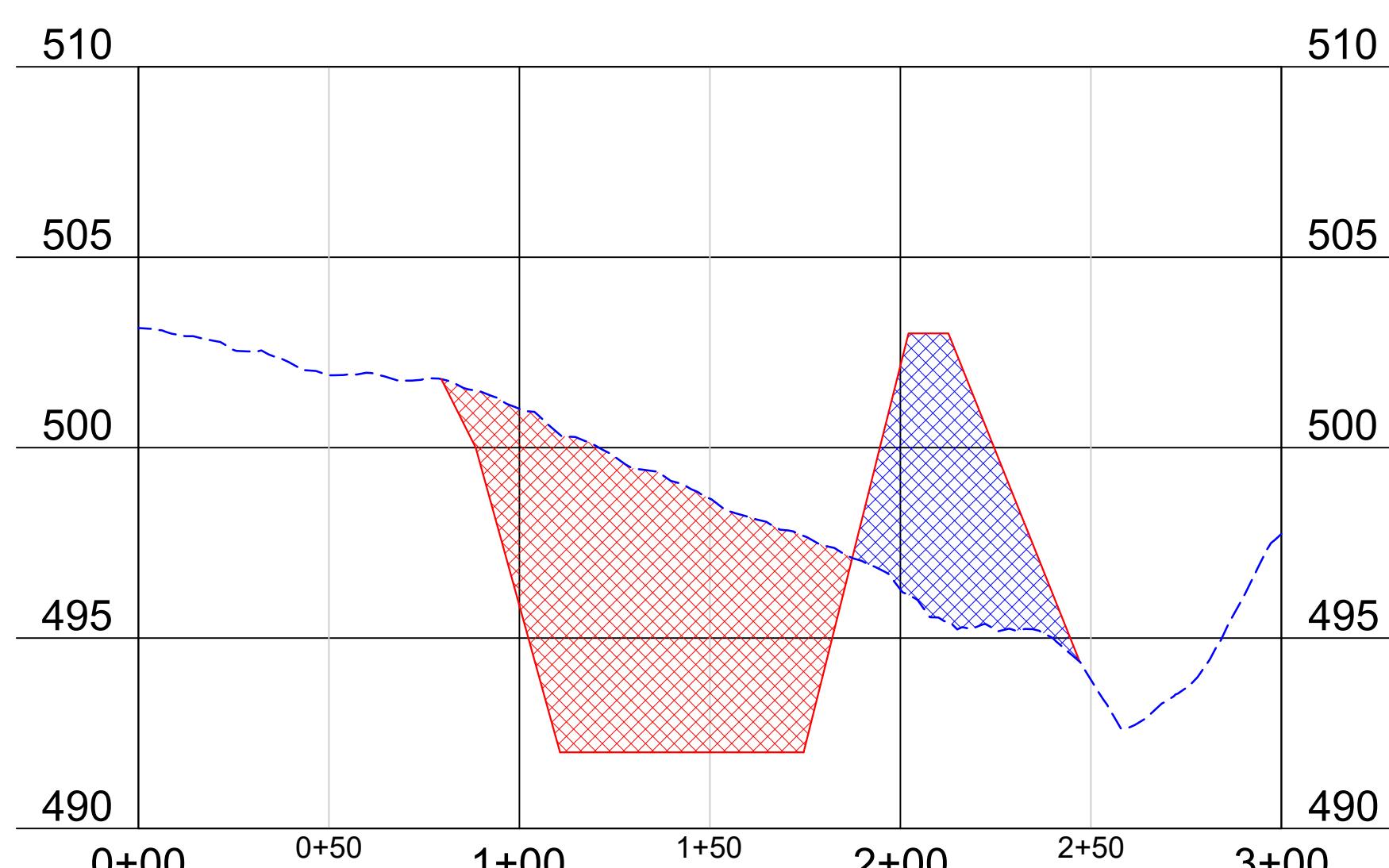
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VERTICAL SCALE: 1"=5'



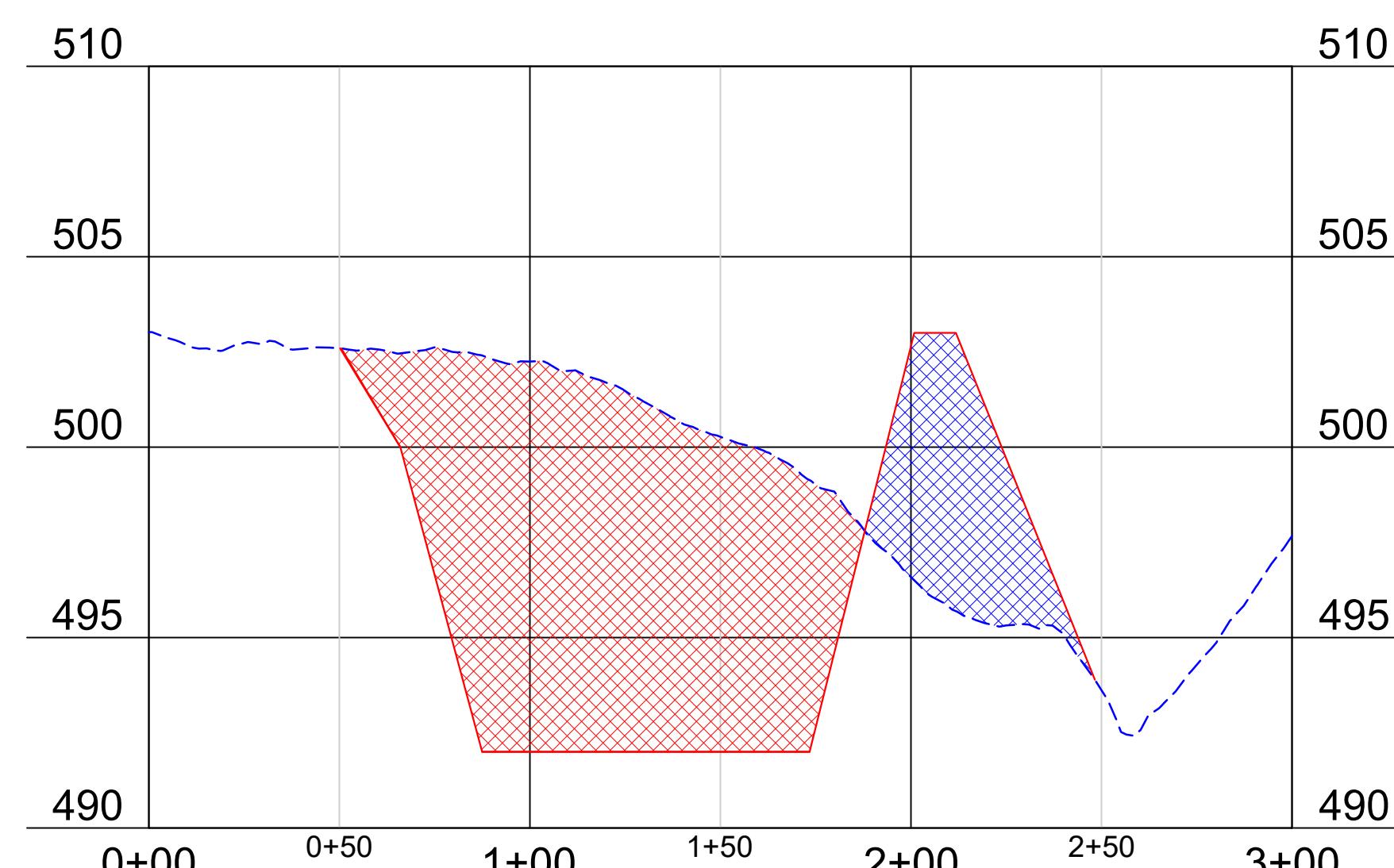
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VERTICAL SCALE: 1"=5'



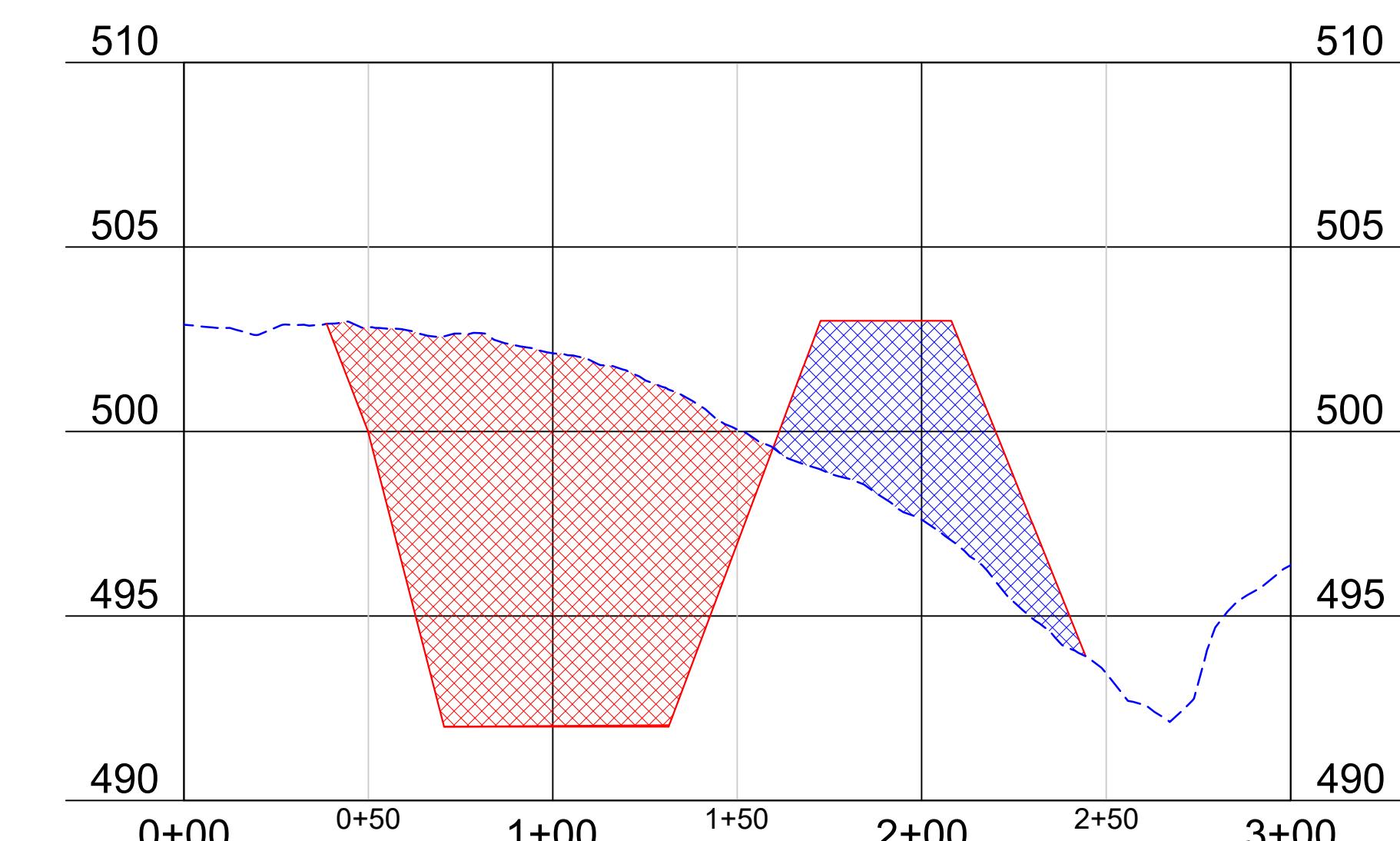
**SECTION VIEW LINE (C-C')**  
HORIZONTAL SCALE: 1"=50'  
VERTICAL SCALE: 1"=5'



**SECTION VIEW LINE (D-D')**  
HORIZONTAL SCALE: 1"=50'  
VERTICAL SCALE: 1"=5'



**SECTION VIEW LINE (E-E')**  
HORIZONTAL SCALE: 1"=50'  
VERTICAL SCALE: 1"=5'



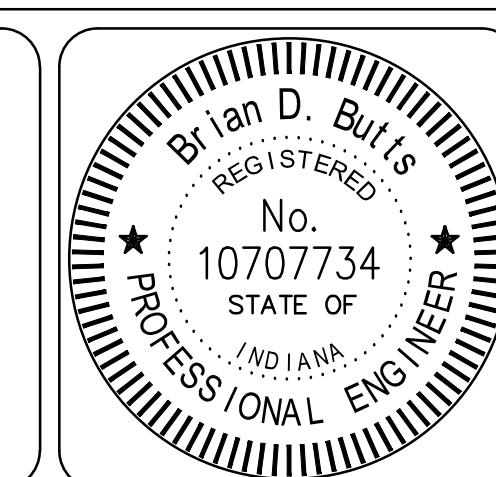
**SECTION VIEW LINE (F-F')**  
HORIZONTAL SCALE: 1"=50'  
VERTICAL SCALE: 1"=5'

**LEGEND**

- EX. GRADE
- DESIGN GRADE
- CUT
- FILL



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FOR APPROVAL:

*Brian D. Bults*

03/12/2024  
DATE

DATE MADE  
03/12/2024

PROFILE SECTIONS

SCALE  
AS NOTED

SHEET  
10 OF 12

DESIGNED BY  
BDB

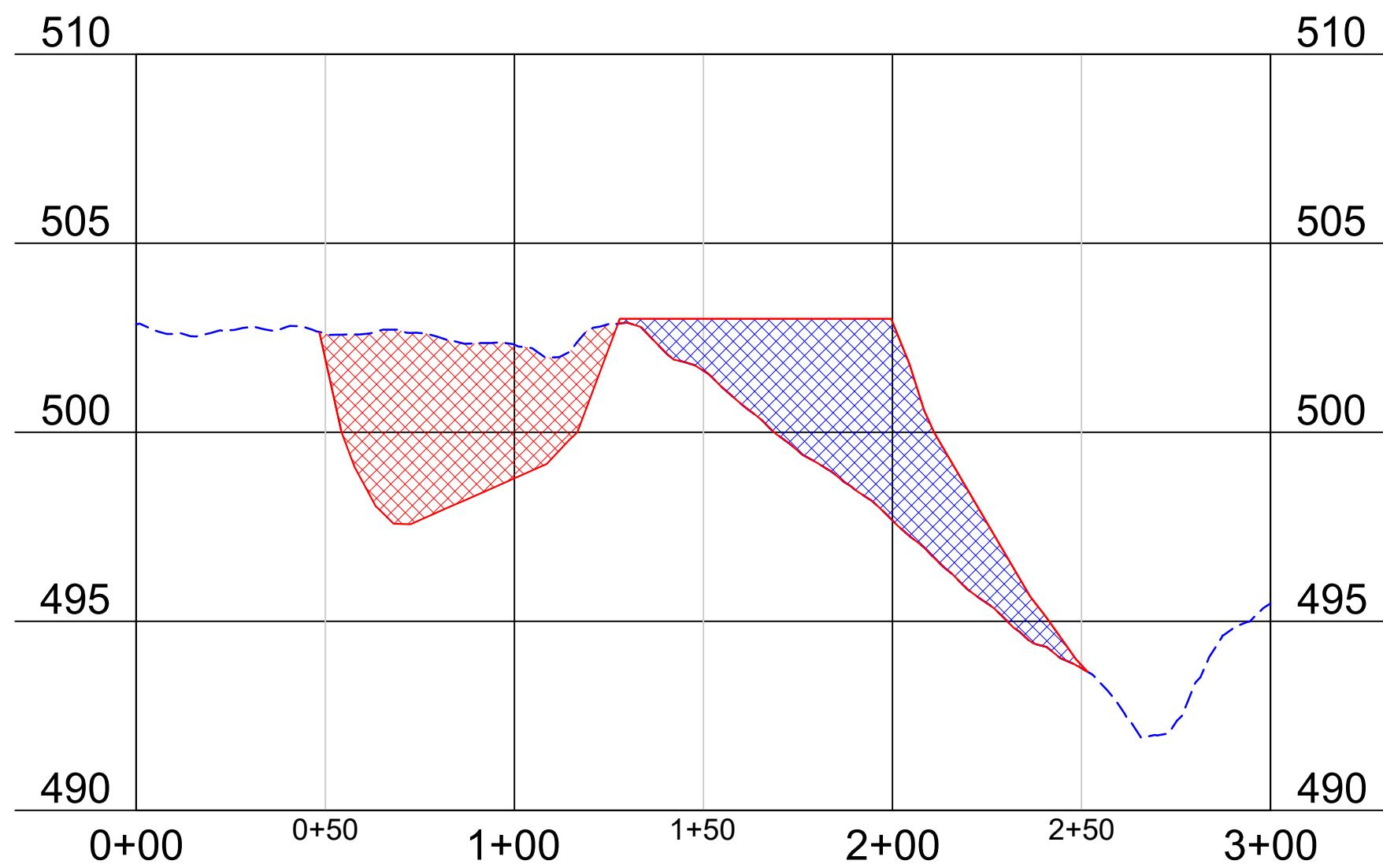
DRAWN BY  
ZAS

DATE REVISED  
03/12/2024

STATE OF INDIANA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF RECLAMATION

PROJECT  
E008-338

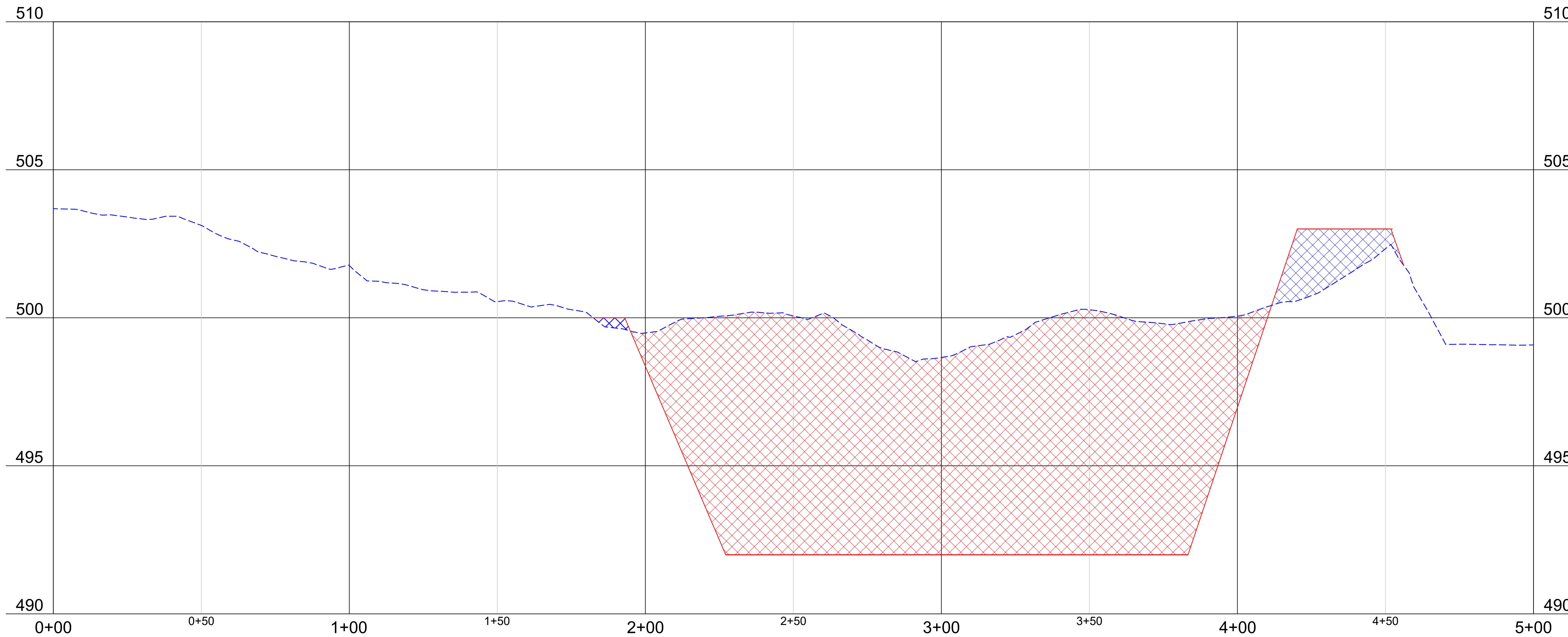
SITE  
1836



**SECTION VIEW LINE (G-G')**  
HORIZONTAL SCALE 1"=50'  
VERTICAL SCALE: 1"=5'

**LEGEND**

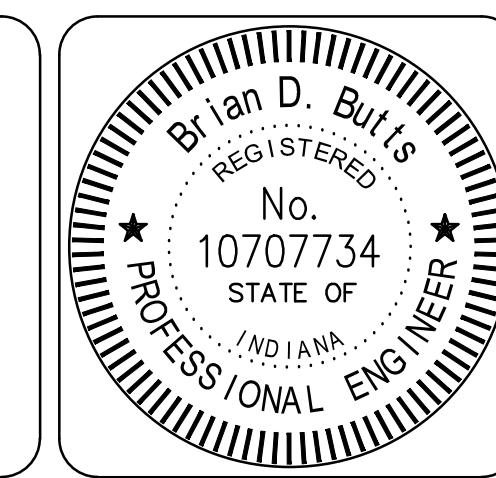
- EX. GRADE
- DESIGN GRADE
- CUT
- FILL



**SECTION VIEW LINE (H-H')**  
HORIZONTAL SCALE 1"=50'  
VERTICAL SCALE: 1"=5'



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*Brian D. Bults*

03/12/2024  
DATE

DATE MADE  
03/12/2024

PROFILE SECTIONS

SCALE  
AS NOTED

SHEET  
11 OF 12

DESIGNED BY  
BDB

DRAWN BY  
ZAS

DATE REVISED  
03/12/2024

STATE OF INDIANA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF RECLAMATION

PROJECT  
E008-338

SITE  
1836

