

ORDER OF SHEETS

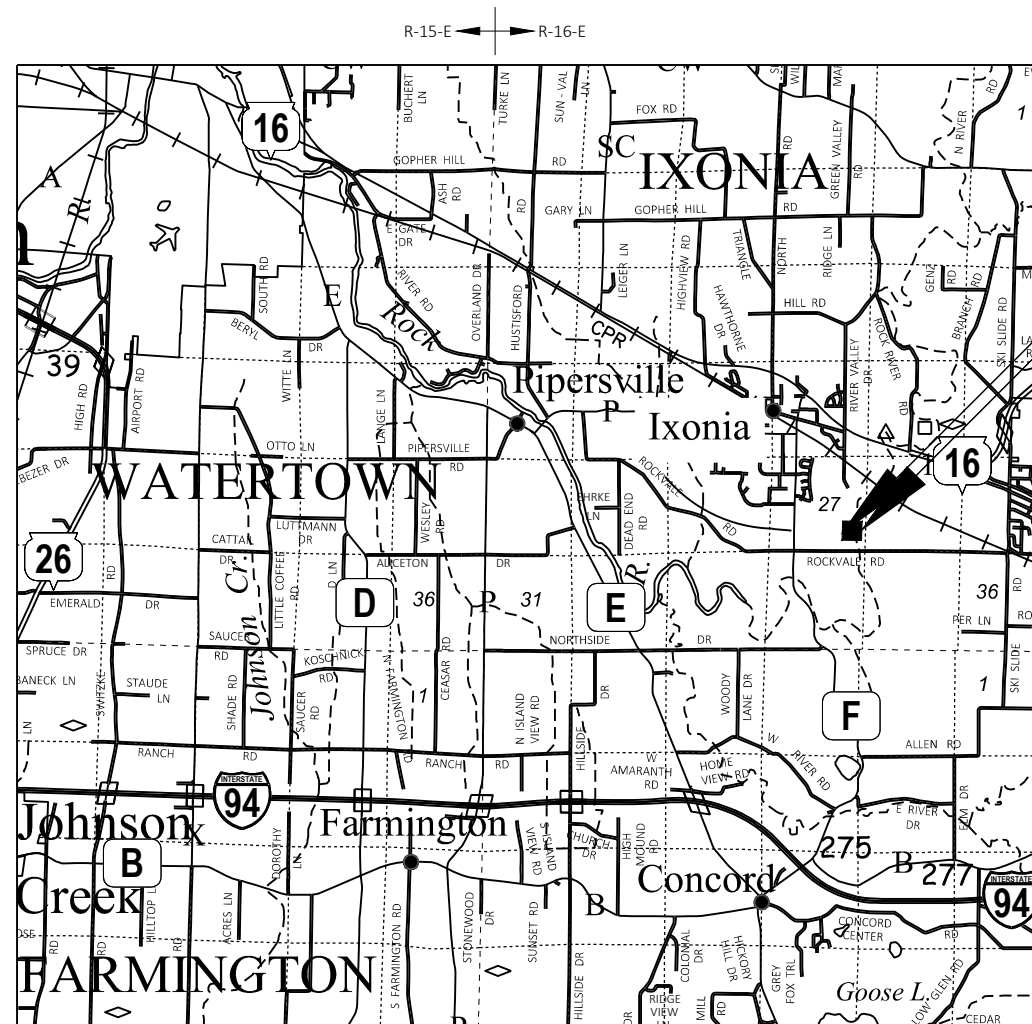
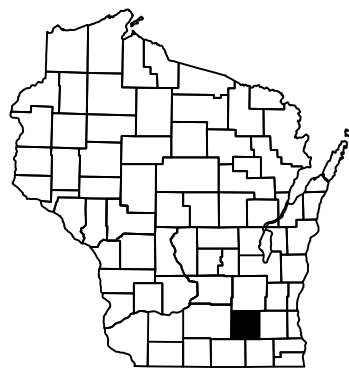
- Title
- General Notes
- Project Overview
- Construction Details
- Structure Plans

INTERURBAN RECREATION TRAIL PHASE 3 BRIDGE

ROCK RIVER BRIDGE

NON-HWY

JEFFERSON COUNTY



BEGIN PROJECT
STA. 433+73.86

END PROJECT
STA. 435+28.16

CONVENTIONAL SYMBOLS

| | | | |
|-----------------------------------|--|--|--|
| PLAN | | PROFILE | |
| CORPORATE LIMITS | | GRADE LINE | |
| PROPERTY LINE | | ORIGINAL GROUND | |
| LOT LINE | | MARSH OR ROCK PROFILE (To be noted as such) | |
| LIMITED HIGHWAY EASEMENT | | SPECIAL DITCH | |
| EXISTING RIGHT OF WAY | | GRADE ELEVATION | |
| PROPOSED OR NEW R/W LINE | | CULVERT (Profile View) | |
| SLOPE INTERCEPT | | UTILITIES | |
| REFERENCE LINE | | ELECTRIC | |
| EXISTING CULVERT | | FIBER OPTIC | |
| PROPOSED CULVERT (Box or Pipe) | | GAS | |
| COMBUSTIBLE FLUIDS | | OVERHEAD | |
| MARSH AREA | | SANITARY SEWER | |
| WOODED OR SHRUB AREA | | STORM SEWER | |
| | | TELEPHONE | |
| | | WATER | |
| | | UTILITY PEDESTAL | |
| | | POWER POLE | |
| | | TELEPHONE POLE | |



LAYOUT
SCALE 0 2 MI
TOTAL NET LENGTH OF CENTERLINE = 154.3 LF

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, JEFFERSON COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012).

ORIGINAL PLANS PREPARED BY

KL Engineering
[A] Better Experience

JOSHUA MERCIER
44677-6
OREGON,
WI

JANUARY 10, 2024
(Date)

John Mercier
(Signature)

PREPARED BY

Surveyor KL ENGINEERING, INC.

Designer KL ENGINEERING, INC.

Project Manager BRIAN UDOVICH, PE

APPROVED BY JEFFERSON COUNTY

DATE: _____
(Date) (Signature)

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GENERAL NOTES

UTILITY CONTACTS

2

2

THE LOCATION OF EXISTING UTILITY AS SHOWN IN THE PLAN, ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. CONTACT DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO START OF WORK.

THE CONTRACTOR SHALL NOT CUT OR FILL WITHIN 10-FEET OF THE UTILITY H-POLES WITHOUT THE ENGINEER'S APPROVAL.

NO TREES AND/OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEEDED. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

EXISTING DRAINAGE DITCHES AND CULVERT PIPES SHALL REMAIN FUNCTIONAL DURING CONSTRUCTION OPERATIONS.

DISTURBED AREAS WITHIN THE PROJECT CORRIDOR ARE TO BE TOP SOILED, SEEDED, AND EROSION MATTED AS DIRECTED BY THE ENGINEER.

ANY AREAS DISTURBED BY THE CONTRACTOR OUTSIDE OF DESIGNATED WORK AREAS SHALL BE RESTORED TO ITS ORIGINAL FORM AT THE EXPENSE OF THE CONTRACTOR, ANY ALTERNATIVE ACCESS UTILIZED BY THE CONTRACTOR, NOT SHOWN IN THE PLANS, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN RIGHTS TO USE, MAINTAIN, RESTORE, AND COVER ALL ASSOCIATED COSTS.

HAUL ROUTES ARE TO BE DETERMINED BEFORE CONSTRUCTION BEGINS AND SHALL BE APPROVED BY THE MAINTAINING AUTHORITY. HAUL ROADS DAMAGED DURING HAULING ACTIVITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR TO THEIR ORIGINAL CONDITION AND TO THE MAINTAINING AUTHORITY'S APPROVAL AT THE CONTRACTOR'S EXPENSE.

WHEN THE QUANTITY OF BASE AGGREGATE IS MEASURED BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

CURVE DATA IS BASED ON THE ARC DEFINITION.

PLAN ELEVATIONS = NAVD 88 (2012)

BEARINGS SHOWN IN THE PLANS ARE GRID/GROUND/PROJECT BEARINGS TO THE NEAREST SECOND.

NO PERMANENT FILL SHALL BE PLACED BELOW THE BASE FLOOD ELEVATION (842.4 FEET).

THE CONTRACTOR MAY ACCESS THE PROJECT AREA USING THE EXISTING UTILITY CORRIDOR FROM CTH F TO THE WEST AND FROM ROCKVALE ROAD TO THE EAST. THE UTILITY CORRIDOR IS AN ABANDONED RAILROAD EMBANKMENT. THE CORRIDOR IS TRAVERSABLE WITH A VEHICLE; HOWEVER, THERE ARE UNDULATIONS IN THE SURFACE AND THE SURFACE MATERIAL VARIES (TOPSOIL AND GRAVEL). THE TRAIL IMPROVEMENTS ARE PLANNED TO BE COMPLETED IN 2025. THE CONTRACTOR SHALL DETERMINE IF IMPROVEMENTS (GRADING, BASE AGGREGATE, ETC) ARE NECESSARY TO ACCESS THE SITE AND TO COMPLETE THIS PROJECT. THE COST OF ALL IMPROVEMENTS TO THE CORRIDOR SURFACE SHALL BE INCLUDED IN THE BID ITEM TEMPORARY CONTRACTOR ACCESS. ALL PERMANENT FILL FROM THE TOP OF THE EMBANKMENT EXTENDING DOWN WITHIN 1:1 LIMITS SHALL MEET THE SPECIFICATIONS FOR BORROW OR AS APPROVED BY THE ENGINEER.

THE TEMPORARY CONTRACTOR ACCESS PLANS ARE PROVIDED FOR CONCEPTUAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE THEIR MEANS AND METHODS TO COMPLETE THE WORK. THE CONTRACTOR WILL PROVIDE PLANS FOR THE TEMPORARY ACCESS, INCLUDING EROSION CONTROL, TO THE OWNER AND ENGINEER PRIOR TO BEGINNING WORK AS STATED IN THE PROJECT MANUAL. TIME AND MATERIALS TO INSTALL AND REMOVE ALL TEMPORARY ACCESS IS INCLUDED IN THE BID ITEM TEMPORARY CONTRACTOR ACCESS.

CONVENTIONAL ABBREVIATIONS

| | |
|--------------|----------------------------------|
| BAD | BASE AGGREGATE DENSE |
| BM | BENCH MARK |
| BLDG. | BUILDING |
| CTR | CENTER |
| C/L | CENTERLINE |
| C.E. | COMMERCIAL ENTRANCE |
| CONC. | CONCRETE |
| CMCP | CORRUGATED METAL CULVERT PIPE |
| CP | CULVERT PIPE |
| CPCS | CULVERT PIPE CORRUGATED STEEL |
| CPRC | CULVERT PIPE REINFORCED CONCRETE |
| CPT | CONSTRUCTION PERMIT |
| DMS | DYNAMIC MESSAGE SIGN |
| EB | EASTBOUND |
| ELEC | ELECTRIC |
| IE | INVERT ELEVATION |
| EX. OR EXIST | EXISTING |
| FO | FIBER OPTIC |
| F.E. | FIELD ENTRANCE |
| GAS | GAS |
| HMA | HOT MIX ASPHALT |
| HSE. | HOUSE |
| LHF | LEFT HAND FORWARD |
| MH | MANHOLE |
| MAX. | MAXIMUM |
| MIN. | MINIMUM |
| NB | NORTHBOUND |
| NOR. | NORMAL |
| NTS | NOT TO SCALE |
| PLE | PERMANENT LIMITED EASEMENT |
| P.E. | PRIVATE ENTRANCE |
| P.L. | PROPERTY LINE |
| PRW | PROPOSED RIGHT-OF-WAY |
| RAD OR R | RADIUS |
| R/L | REFERENCE LINE |
| REQ'D. | REQUIRED |
| RHF | RIGHT HAND FORWARD |
| RW | RIGHT-OF-WAY LINE |
| SAN | SANITARY SEWER |
| SB | SOUTHBOUND |
| SHLD | SHOULDER |
| SF | SQUARE FEET |
| SY | SQUARE YARD |
| S.D.D. | STANDARD DETAIL DRAWING |
| STA | STATION |
| SS | STORM SEWER |
| TEL | TELEPHONE |
| TLE | TEMPORARY LIMITED EASEMENT |
| TYP | TYPICAL |
| WAT | WATER |
| WB | WESTBOUND |

ELECTRIC

ATC
CHRIS DAILEY
PO BOX 47
WAUKESHA, WI 53187
PHONE: 262-506-6884
CDAILEY@ATCLLC.COM

ELECTRIC

WE ENERGIES
ERIC KICKHAVER
500 S 116TH ST
WEST ALLIS, WI 53214
PHONE: 414-944-5917
MOBILE: 414-588-7472
ERIC.KICKHAVER@WE-ENERGIES.COM



Dial 811 or (800)242-8511
www.DiggersHotline.com

DESIGN CONTACT

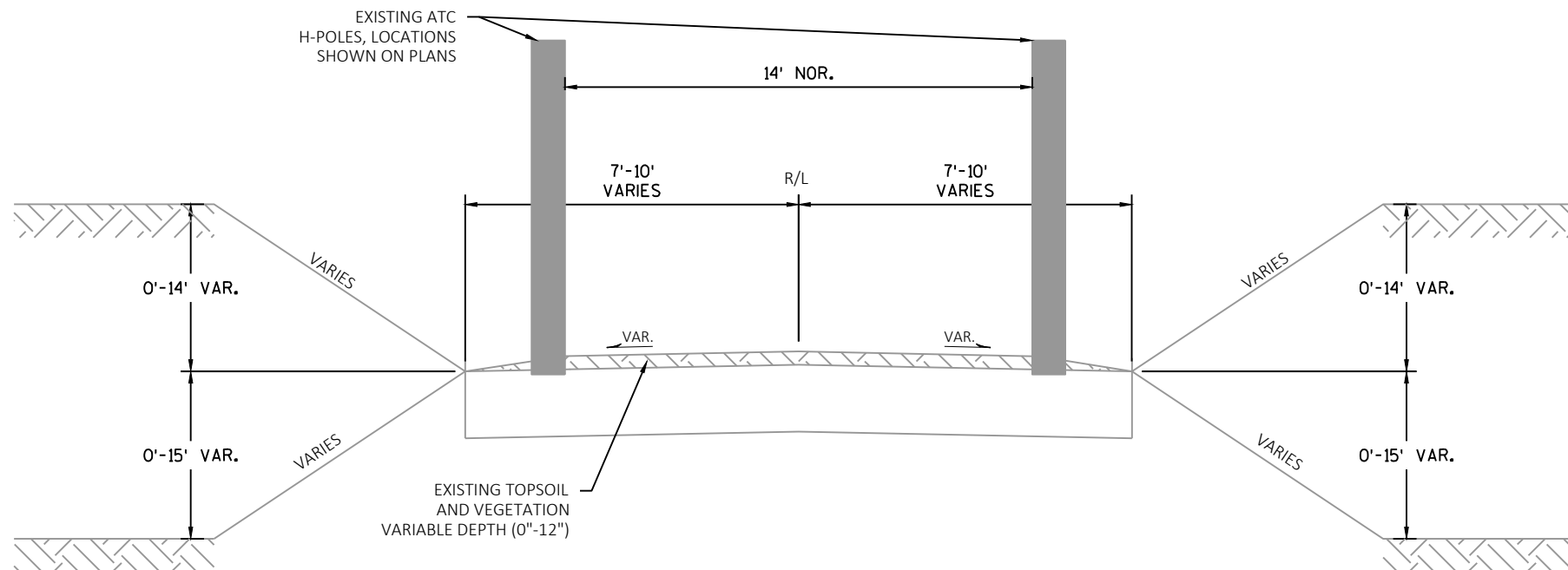
KL ENGINEERING, INC
JOSH MERCIER, PE
5400 KING JAMES WAY
SUITE 200
MADISON, WI, 53719
PHONE: 608-663-1218
EMAIL: JOSH.MERCIER@KLENGINEERING.COM

JEFFERSON COUNTY

JEFFERSON CO. HIGHWAY DEPT.
BRIAN UDOVICH, PE
1425 SOUTH WISCONSIN DR
JEFFERSON, WI 53549
PHONE: 920-723-7273
EMAIL: BRIANU@JEFFERSONCOUNTYWI.GOV

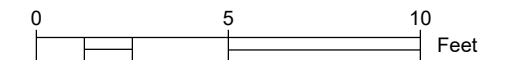
WISDNR

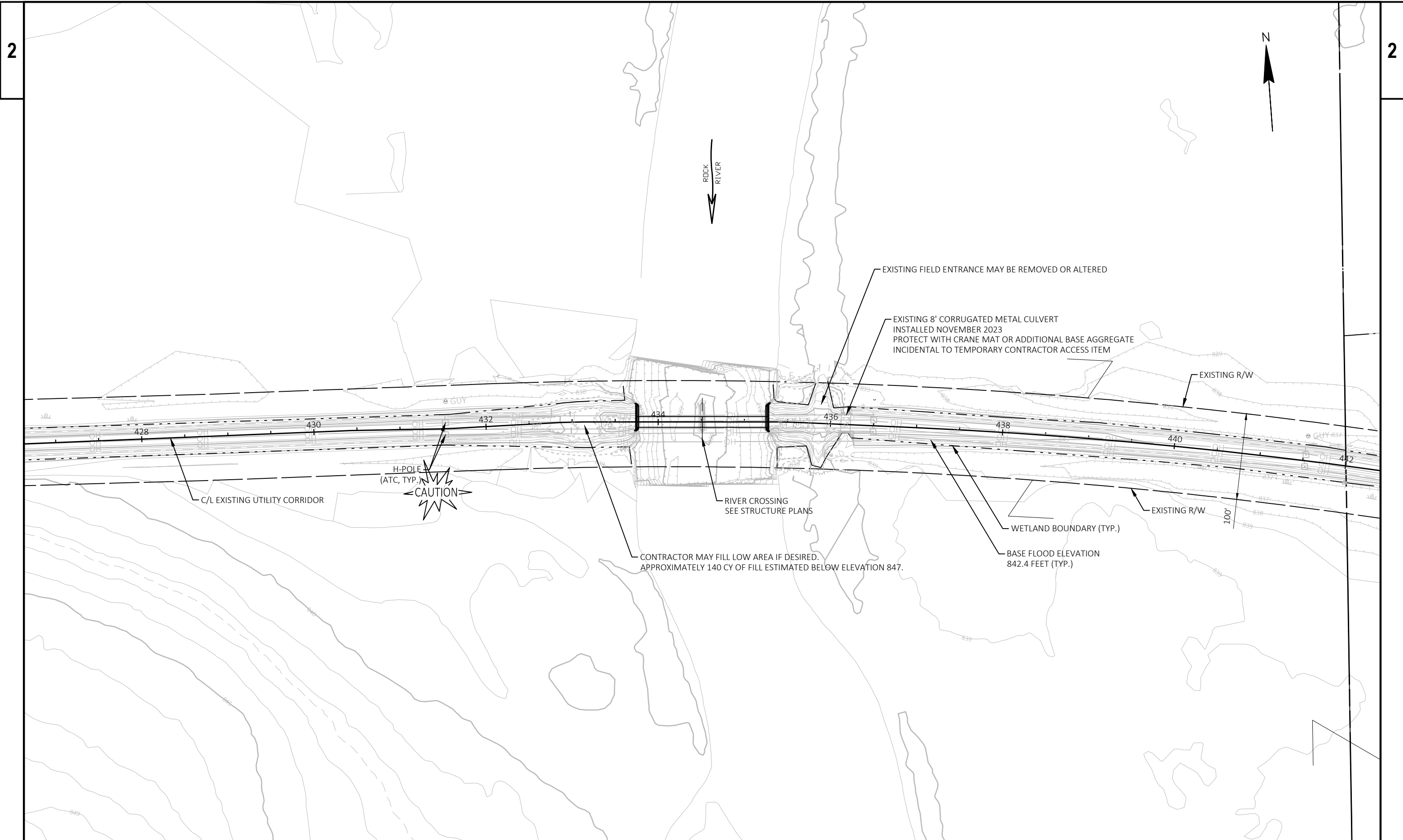
DNR TRANSPORTATION LIASON
ERIN COX
WATER MANAGEMENT SPECIALIST
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
141 NW BARSTOW ST, ROOM 180
WAUKESHA, WI 53188
PHONE: (262)-282-2029
EMAIL: ERIN.COX@WISCONSIN.GOV

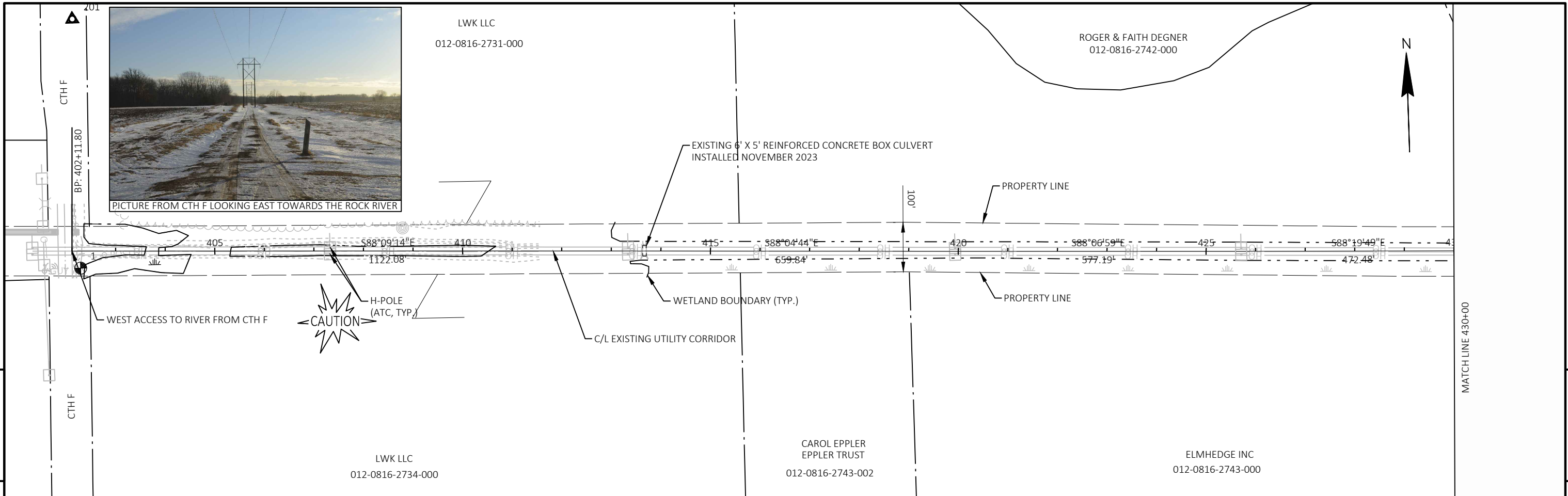


TYPICAL EXISTING SECTION - TRAIL

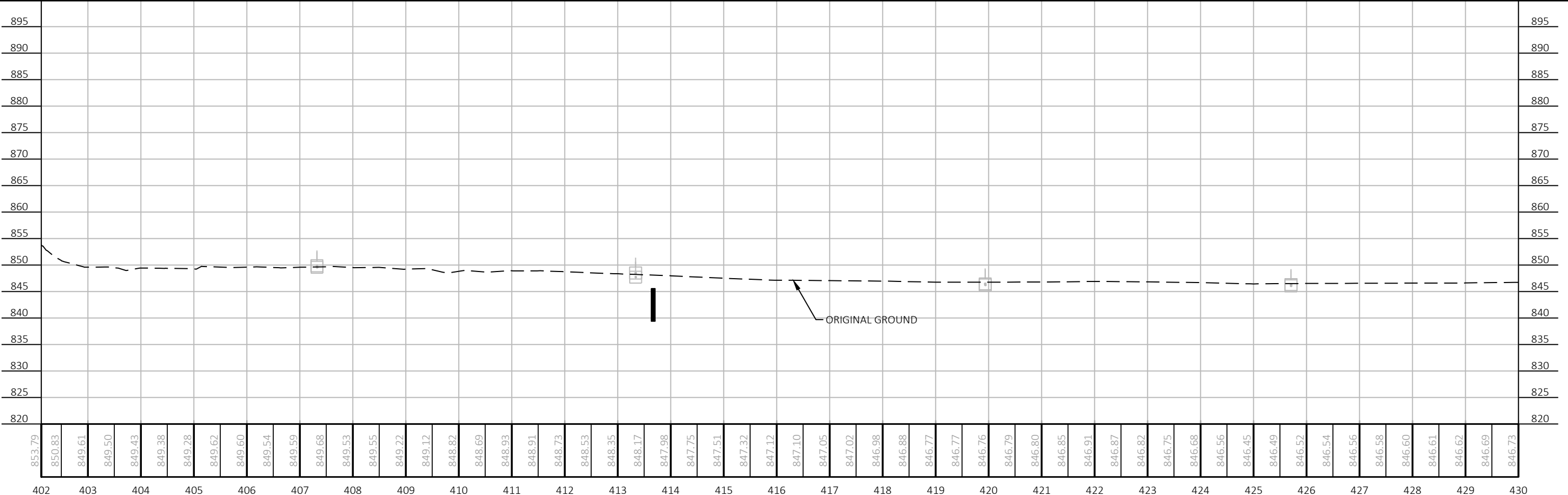
STA. 402+11.80 - STA. 478+50.56



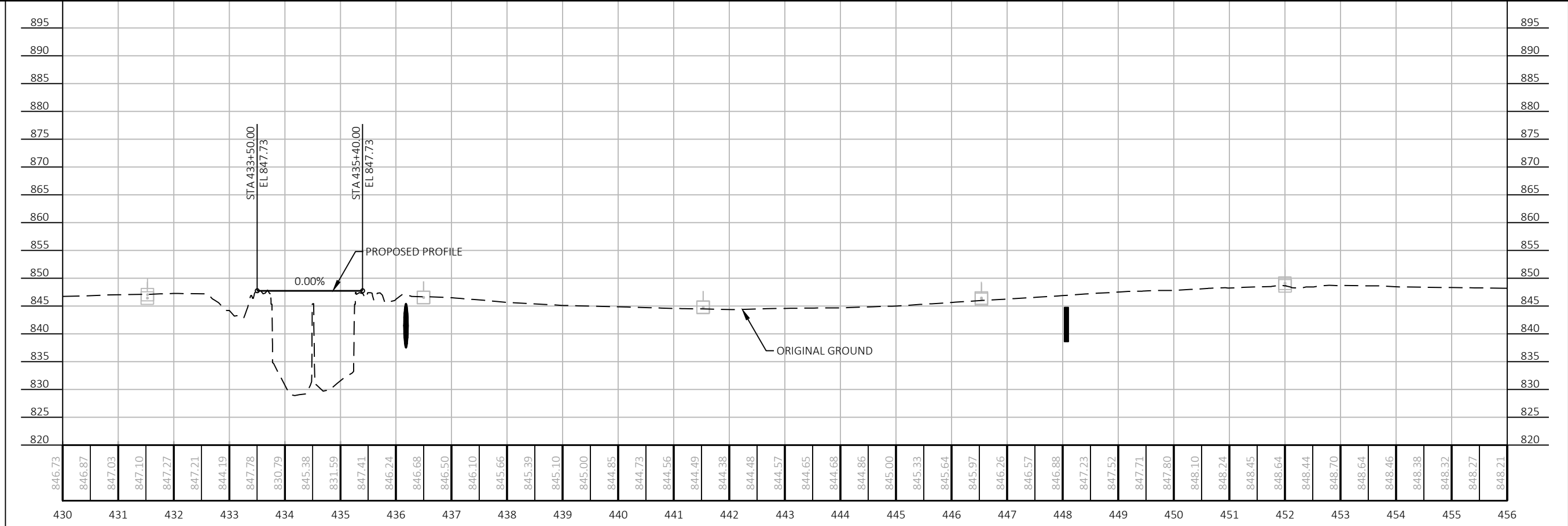
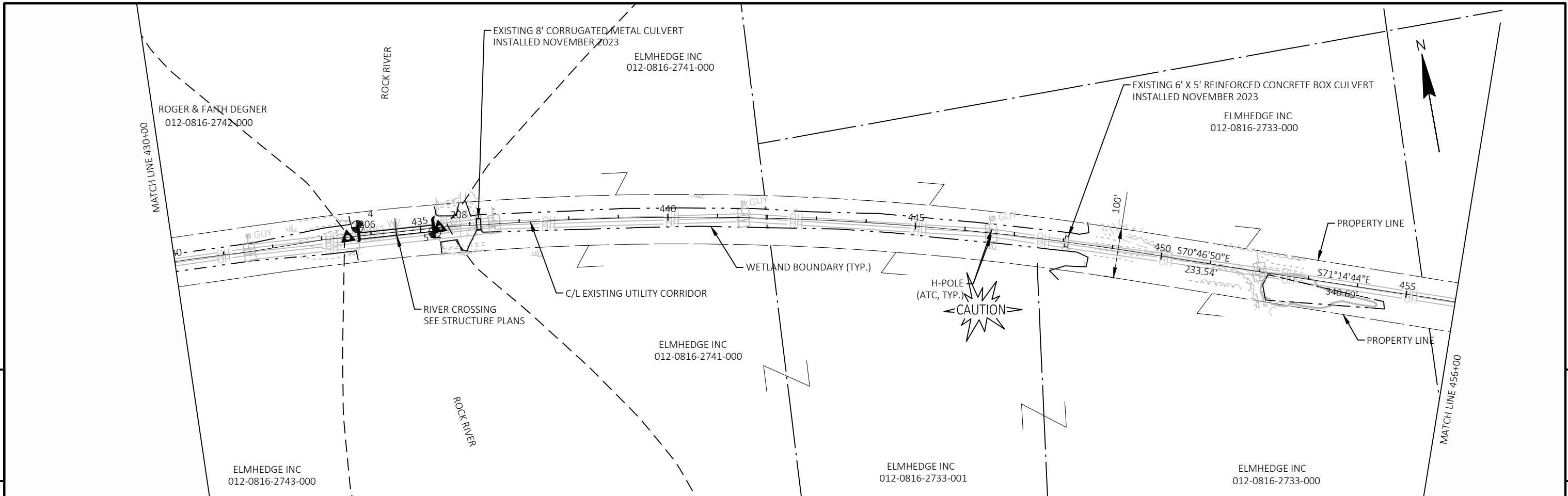


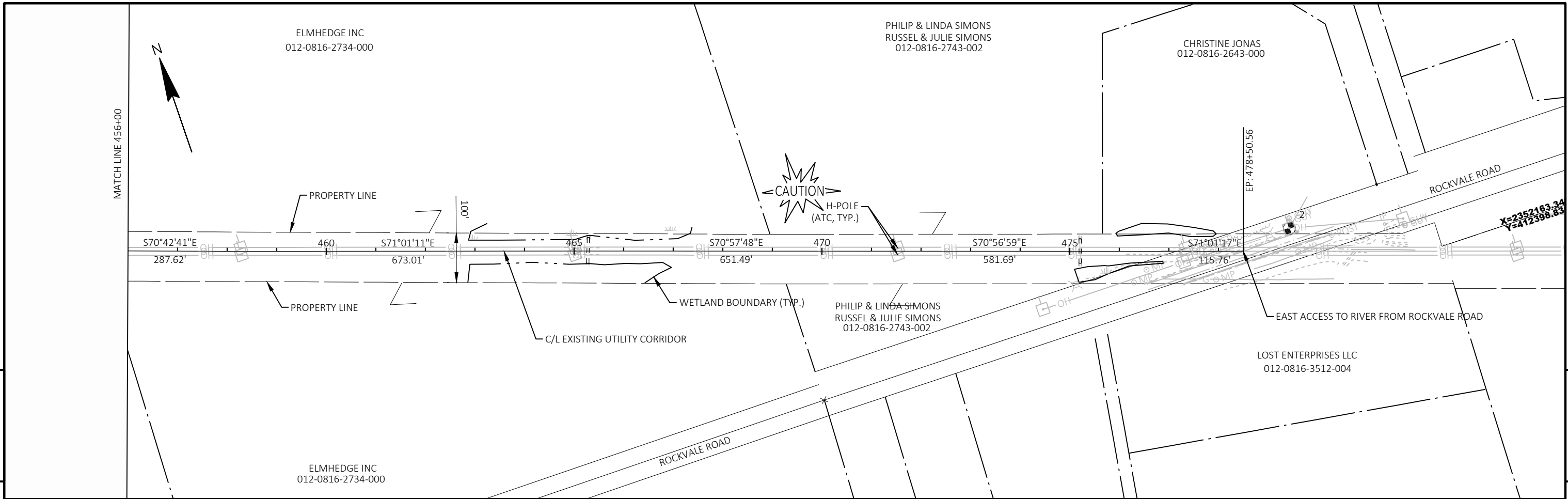


PICTURE FROM CTH F LOOKING EAST TOWARDS THE ROCK RIVER



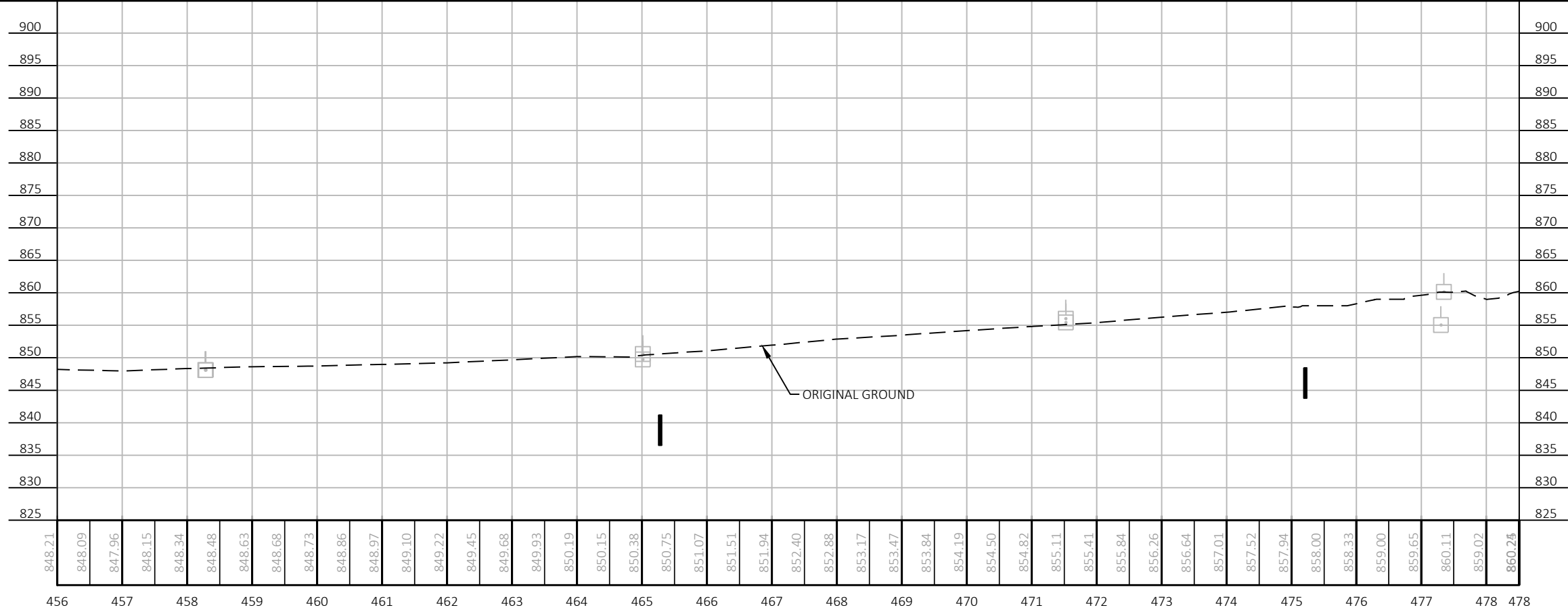
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|-------------|-----------------------------|------|-------------|---------|-----------|-------------------|---------------------------|-------|--------------|----------|
| PROJECT NO: | INTERURBAN RECREATION TRAIL | HWY: | NON-HIGHWAY | COUNTY: | JEFFERSON | PLAN AND PROFILE: | EXISTING UTILITY CORRIDOR | SHEET | Page 5 of 21 | E |
|-------------|-----------------------------|------|-------------|---------|-----------|-------------------|---------------------------|-------|--------------|----------|



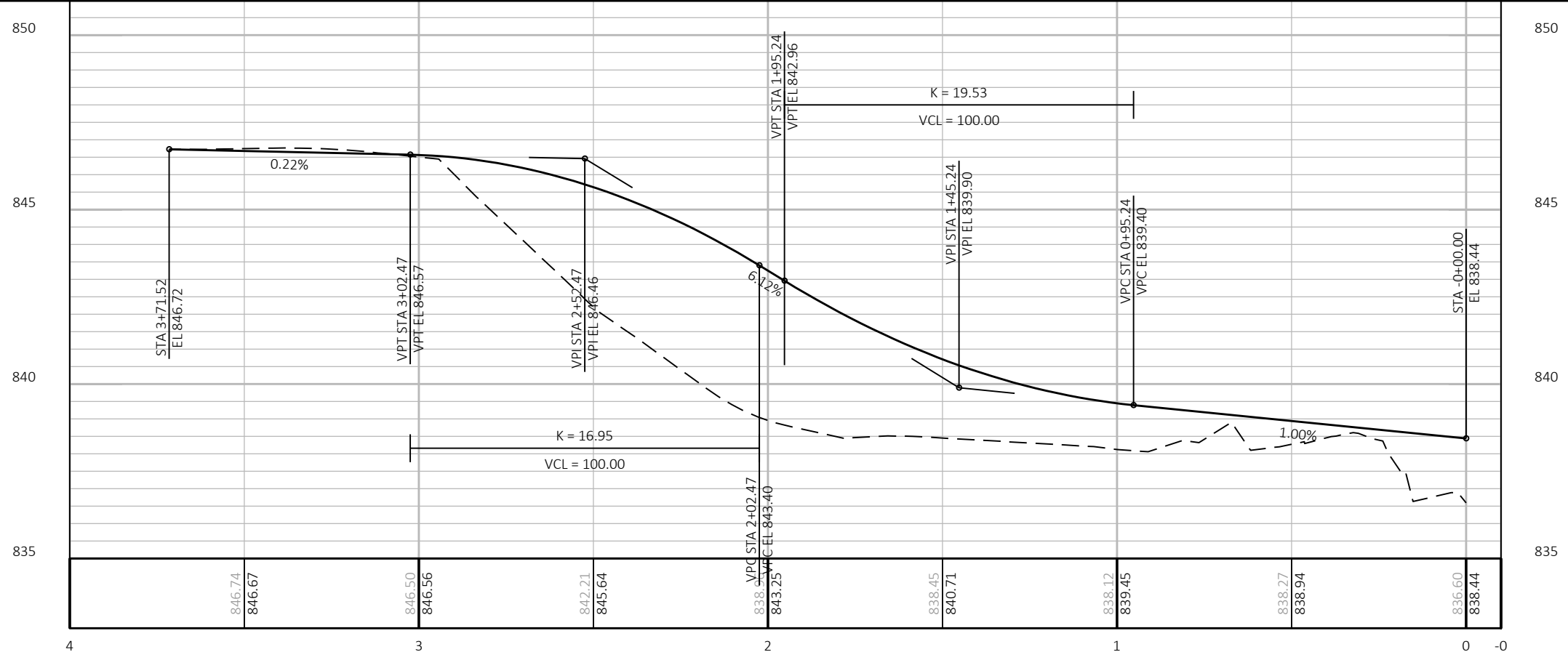
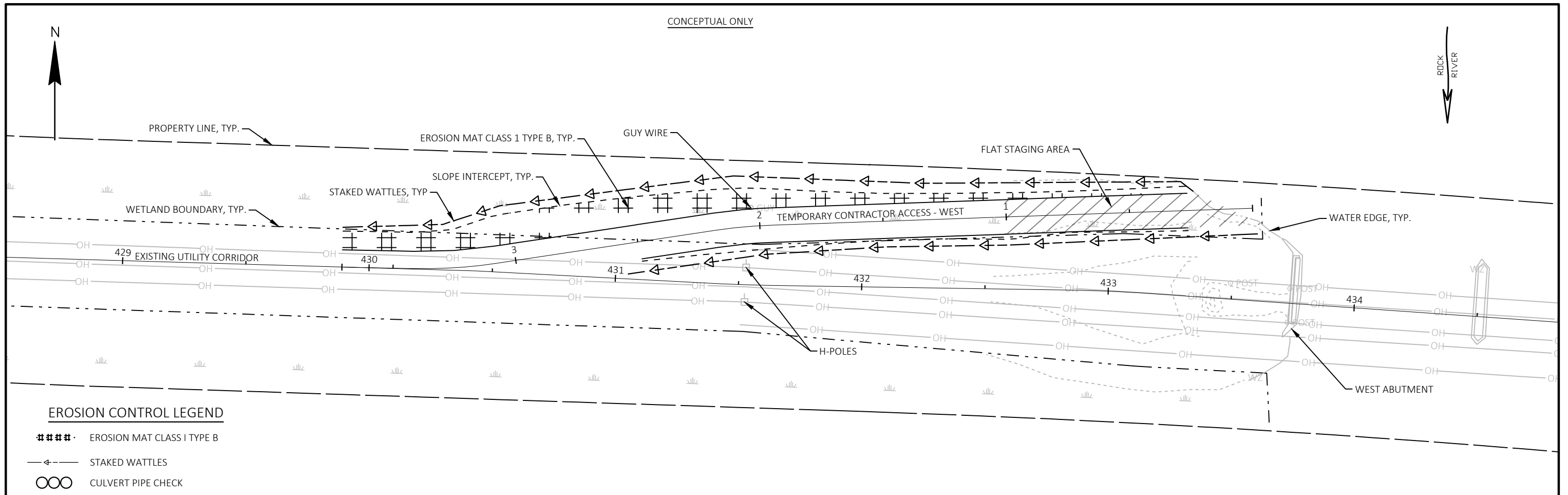


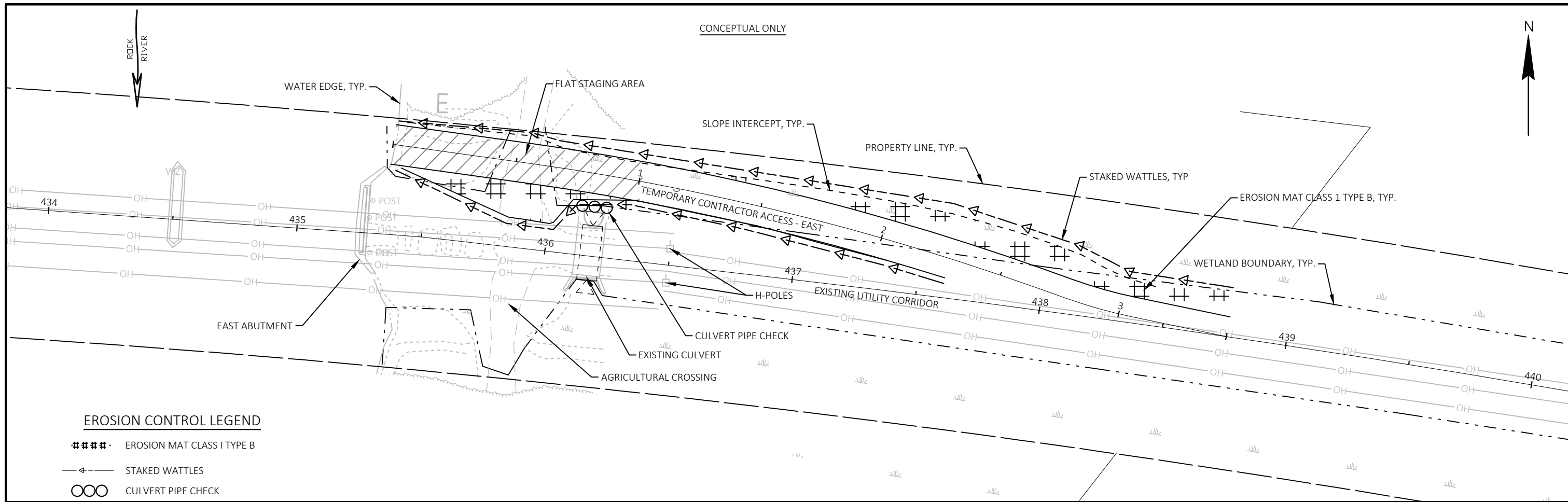
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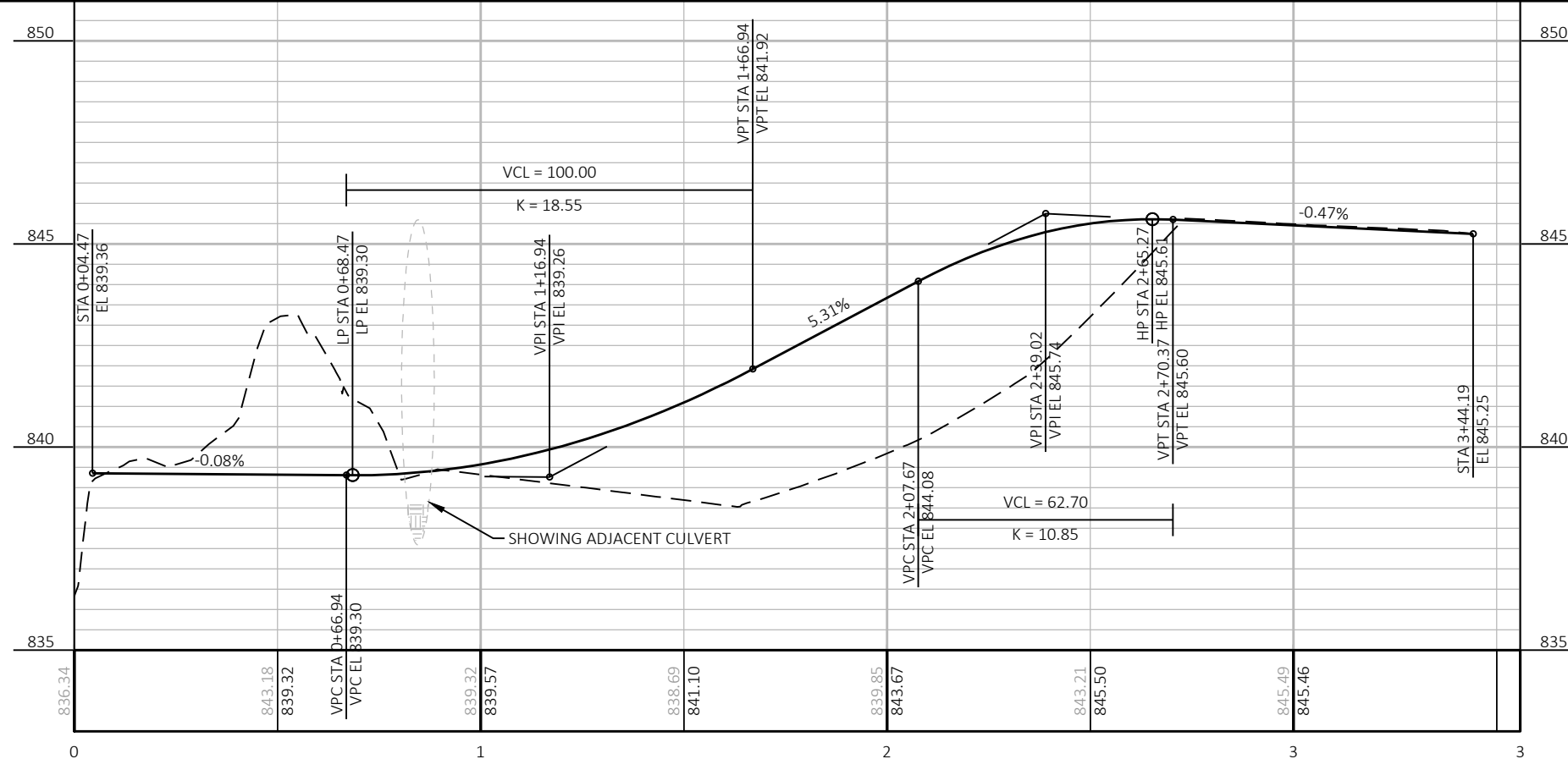
PROJECT NO: INTERURBAN RECREATION TRAIL HWY: NON-HIGHWAY COUNTY: JEFFERSON PLAN AND PROFILE: EXISTING UTILITY CORRIDOR SHEET Page 7 of 21 E





EROSION CONTROL LEGEND

- #### EROSION MAT CLASS 1 TYPE B
- ← STAKED WATTLES
- CULVERT PIPE CHECK



INTERURBAN RECREATION TRAIL PHASE 3 BRIDGE

DESIGN DATA

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS
AASHTO LRFD BRIDGE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES

LIVE LOAD:
DESIGN LIVE PEDESTRIAN LOADING: 90 PSF
DESIGN VEHICLE LOADING: AASHTO H10 TRUCK

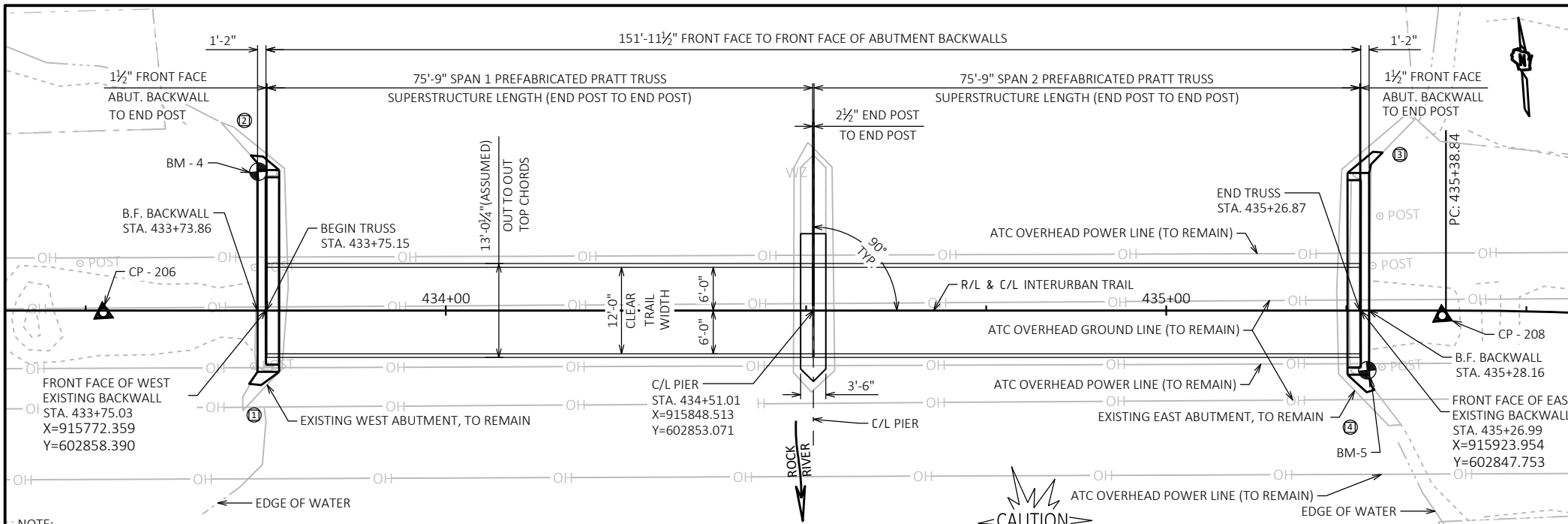
MATERIAL PROPERTIES:
CONCRETE MASONRY f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT HIGH STRENGTH f'y = 60,000 P.S.I.
STRUCTURAL WEATHERING STEEL
ASTM 847 AND A588 f'y = 50,000 P.S.I.

HYDRAULIC DATA

100-YEAR FREQUENCY:
Q100 = 6,300 C.F.S.
V100 = 3.6 F.P.S.
HW100 = EL. 842.4
WATERWAY AREA = 1,964 SQ. FT.
DRAINAGE AREA = 919.3 SQ. MI.
ROADWAY OVERTOPPING = N/A
10-YEAR FREQUENCY:
Q10 = 3645.63 C.F.S.
V10 = 2.57 F.P.S.
HW10 = 840.66 EL.

LIST OF DRAWINGS:

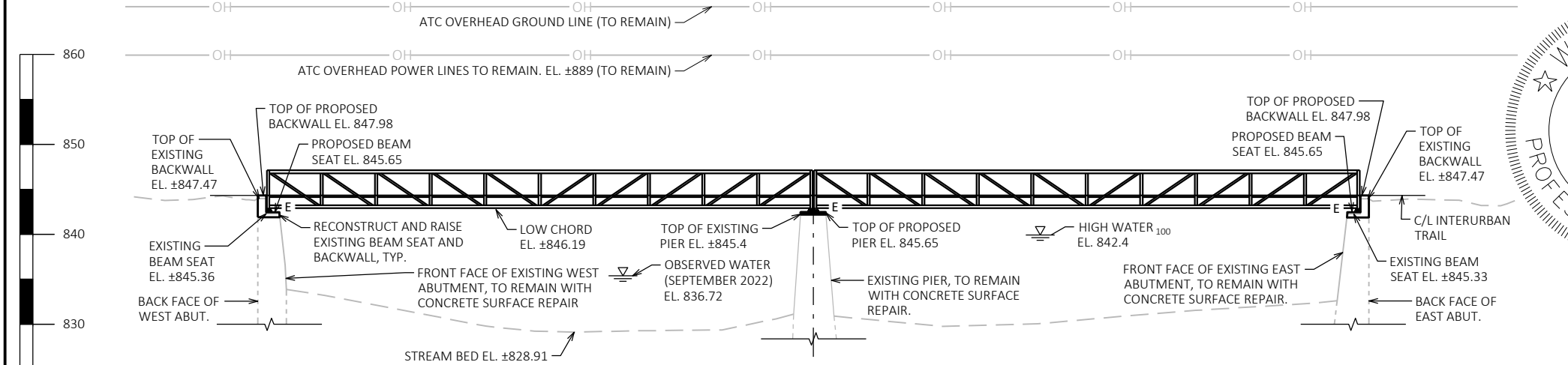
- 1. GENERAL PLAN
2. TYPICAL SECTIONS & QUANTITIES
3. WEST ABUTMENT REMOVAL DETAILS
4. EAST ABUTMENT REMOVAL DETAILS
5. WEST ABUTMENT
6. WEST ABUTMENT DETAIL
7. WEST ABUTMENT WING DETAIL
8. EAST ABUTMENT
9. EAST ABUTMENT DETAIL
10. EAST ABUTMENT WING DETAIL
11. PIER REMOVAL DETAILS
12. PIER DETAILS



PLAN VIEW

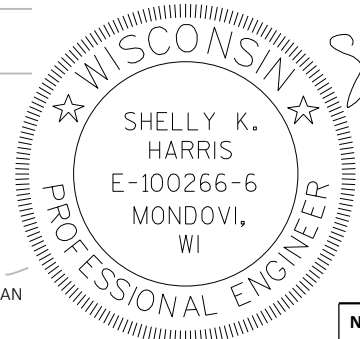
(2 SPAN - PREFABRICATED PRATT TRUSS)

NOTE:
INDICATES WING NUMBER



ELEVATION VIEW

(LOOKING NORTH)



Shelly Harris
January 10, 2024

BENCH MARK

Table with 5 columns: NO., STATION, OFFSET, DESCRIPTION, ELEV. containing bench mark data.

HORIZONTAL DATUM AND ADJUSTMENT: NAD 83 (2011)
VERTICAL DATUM AND ADJUSTMENT: NAVD 88 (2012)
COORDINATE REFERENCE SYSTEM: WISCRS JEFFERSON CO. GEOID 12A

GENERAL NOTES

THE 2024 EDITION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION" SHALL GOVERN.
DRAWING SHALL NOT BE SCALED.
THE EXISTING GROUND LINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.
"BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND THE BACKWALL. THE BACKFILL QUANTITIES ARE BASED ON MATCHING EXISTING GRADE. BACKFILL PLACED BEYOND THE PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.
THE ATC OVERHEAD POWER LINE ELEVATION IS APPROXIMATELY 889' AT THE CONNECTION TO THE H-POLE. THE LINE SAG ELEVATION IS NOT KNOWN AND VARIES WITH TEMPERATURE. ATC OVERHEAD LINES TO REMAIN IN SERVICE. COORDINATE WITH UTILITY COMPANIES.
ALL DIMENSIONS AND REINFORCING BARS ARE IN ENGLISH. ALL STATIONS AND ELEVATIONS ARE IN FEET.
THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.
BEVEL 90° EDGES OF EXPOSED CONCRETE WITH A 3/4" MIN. OR MATCH EXISTING BEVELS UNLESS NOTED OR DIRECTED BY THE ENGINEER.
"CONCRETE SURFACE REPAIR" AREAS SHOWN IN THE QUANTITIES TABLE ARE BASED ON BRIDGE INSPECTION AND ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER.
DEWATERING REQUIRED FOR CONCRETE SURFACE REPAIRS AT ALL SUBSTRUCTURE UNITS IS INCLUDED IN THE BID ITEM "EXCAVATION FOR STRUCTURE BRIDGES".

"REMOVING STRUCTURE OVER WATERWAY REMOVE DEBRIS" BID ITEM INCLUDES EXISTING BACKWALL, BEAM SEAT, WING AND OTHER REMOVALS REQUIRED FOR COMPLETION OF THE WORK. "CONCRETE SURFACE REPAIR" INCLUDES REMOVAL OF UNSOUND CONCRETE FOR REPAIR AS SHOWN ON THE PLANS AND AS DESIGNATED BY THE PROJECT ENGINEER.
ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1 INCH DEEP SAW CUT.
SEE PROJECT MANUAL SPECIAL PROVISIONS FOR SPECIFICATIONS REGARDING BID ITEM "DESIGN-BUILD PREFABRICATED STEEL TRUSS BRIDGE." THE WORK INCLUDED UNDER THIS BID ITEM SHALL CONSIST OF DESIGN, FABRICATION, DELIVERY AND FULLY ERECTING THE 2-SPAN PREFABRICATED STEEL TRUSS BRIDGE INCLUDING ALL BRIDGE BEARINGS, DECKING AND BRIDGE RAILING, AS SHOWN.
THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND THE BRIDGE MANUFACTURER FOR THE DELIVERY OF THE PREFABRICATED STEEL TRUSS BRIDGE COMPONENTS IN ORDER TO MEET ERECTION SCHEDULE AND FINAL COMPLETION DATE.
BRIDGE ABUTMENT AND PIER REINFORCEMENT SHALL BE CAREFULLY PLACED / ADJUSTED AS NECESSARY TO AVOID INTERFERENCE WITH DRILLING HOLES FOR THE PREFABRICATED BRIDGE ANCHOR BOLTS. COORDINATE WITH THE BRIDGE MANUFACTURER TO VERIFY THE LOCATIONS OF THE ANCHOR BOLTS. THE PREFABRICATED TRUSS SHALL BE ERECTED IN THE FINAL POSITION PRIOR TO DRILLING HOLES FOR AND PLACING THE ANCHOR BOLTS.
ALL PREFABRICATED BRIDGE DIMENSIONS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY FINAL DIMENSIONS WITH BRIDGE MANUFACTURER.
ALL PREFABRICATED TRUSS BEARINGS, ANCHOR BOLTS AND ANCHOR SYSTEM COMPONENTS SHALL BE SUPPLIED BY THE BRIDGE MANUFACTURER.

THE TRUSS SHALL BE ANCHORED TO THE PIER AND ABUTMENTS IN A MANNER TO ALLOW THERMAL MOVEMENTS OF THE SUPERSTRUCTURE ALONG THE CENTERLINE OF THE TRAIL AND TO PREVENT MOVEMENT PERPENDICULAR TO THE CENTERLINE OF THE TRAIL.
THE APPEARANCE OF THE TRUSSES SHALL CLOSELY RESEMBLE WHAT IS SHOWN IN THE ELEVATION VIEW ON SHEET 1 AND 2. NUMBER OF PANELS MAY DIFFER FROM WHAT IS SHOWN.
IN ADDITION TO VERTICAL DESIGN LOADS INDICATED, THE PREFABRICATED TRUSS SHALL BE DESIGNED FOR PEDESTRIAN RAILING LIVE LOADS PER THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
THE TRUSS SHALL BE CAMBERED AN AMOUNT TO OFFSET THE CALCULATED DEAD LOAD DEFLECTION.
APPLY BRIDGE SEAT PROTECTION TO BEAM SEATS PRIOR TO SETTING BEARINGS PER SECTION 502.3.12 OF THE CURRENT WISDOT SPECIFICATIONS.
THE MAXIMUM CENTERLINE WOOD WEARING SURFACE PROFILE-TO-LOW CHORD ELEVATION FOR THE PREFABRICATED TRUSS SHALL BE 1'-9 1/2". THE VERTICAL DISTANCE FROM THE TOP OF THE WOOD WEARING SURFACE TO THE CONCRETE BEARING SEAT SHALL BE 2'-4". ANY ADJUSTMENT TO THE BRIDGE SEAT ELEVATION SHALL BE APPROVED BY THE ENGINEER.
INTERURBAN TRAIL TO BE COMPLETED BY OTHERS AFTER COMPLETION OF THE CONTRACT WORK. NO CORRIDOR IMPROVEMENTS ARE PLANNED PRIOR TO CONTRACT WORK.

STRUCTURE DESIGN CONTACTS
CONSULTANT:
SHELLY HARRIS (715) 309-5224

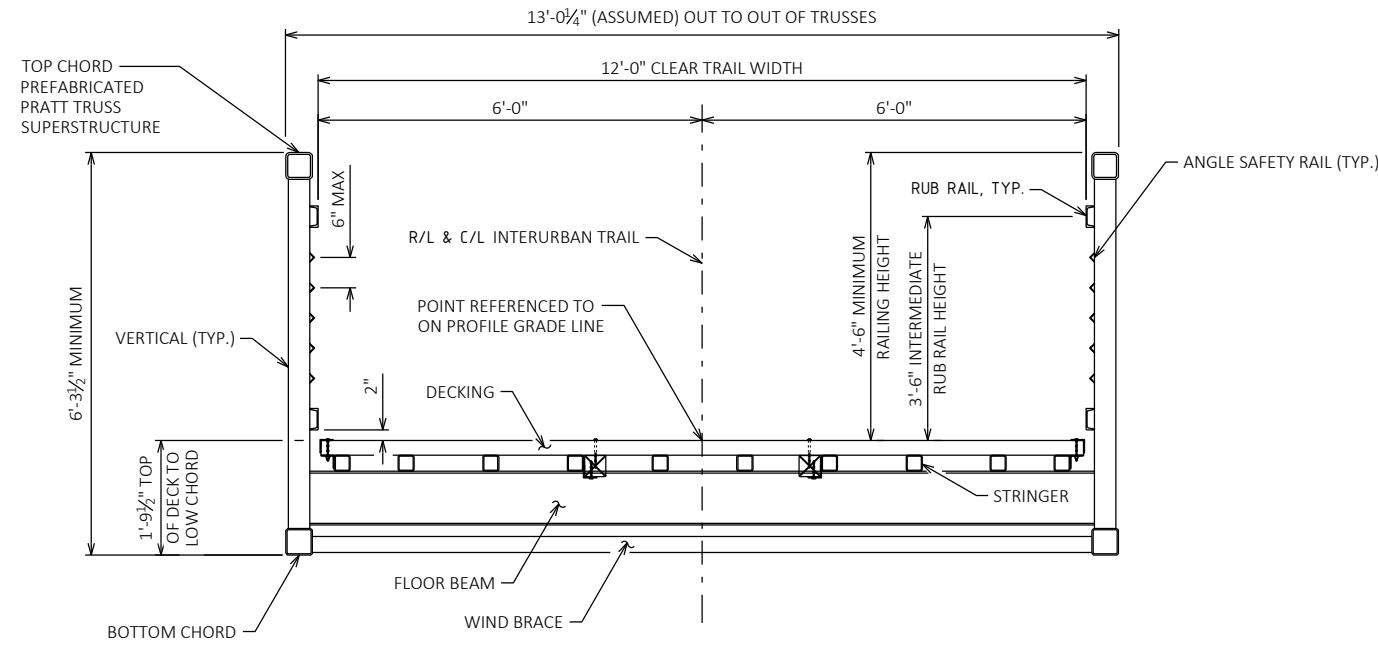
Engineering drawing title block including KL Engineering logo, project name, county, town, and drawing details.

SCALE =

TOTAL ESTIMATED QUANTITIES

| ITEM NUMBER | ITEM DESCRIPTION | UNIT | W. ABUT | PIER | E. ABUT | TOTAL |
|-------------|--|------|---------|------|---------|-------|
| 203.0250 | REMOVING STRUCTURE OVER WATERWAY REMOVE DEBRIS | EACH | --- | --- | --- | 1 |
| 206.1001 | EXCAVATION FOR STRUCTURES BRIDGES | EACH | --- | --- | --- | 1 |
| 210.1500 | BACKFILL STRUCTURE TYPE A | TON | 30 | --- | 30 | 60 |
| 502.0100 | CONCRETE MASONRY BRIDGES | CY | 6 | 3 | 6 | 15 |
| 502.4205 | ADHESIVE ANCHORS NO. 5 BAR | EACH | 97 | 42 | 97 | 236 |
| 505.0400 | BAR STEEL REINFORCEMENT HS STRUCTURES | LB | 280 | 70 | 280 | 630 |
| 505.0600 | BAR STEEL REINFORCEMENT HS COATED STRUCTURES | LB | 550 | 110 | 550 | 1,210 |
| 509.1500 | CONCRETE SURFACE REPAIR | SF | 122 | 318 | 60 | 500 |
| 516.0500 | RUBBERIZED MEMBRANE WATERPROOFING | SY | 6 | --- | 6 | 12 |
| SPV.0105.01 | DESIGN-BUILD PREFABRICATED STEEL TRUSS BRIDGE | LS | --- | --- | --- | 1 |

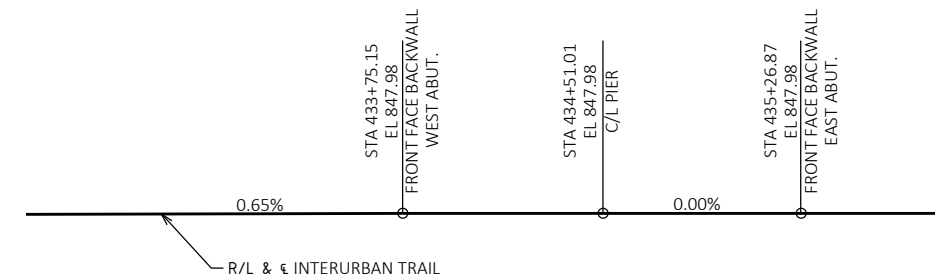
BID ITEMS ARE REFERENCED TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, EDITION 2024.



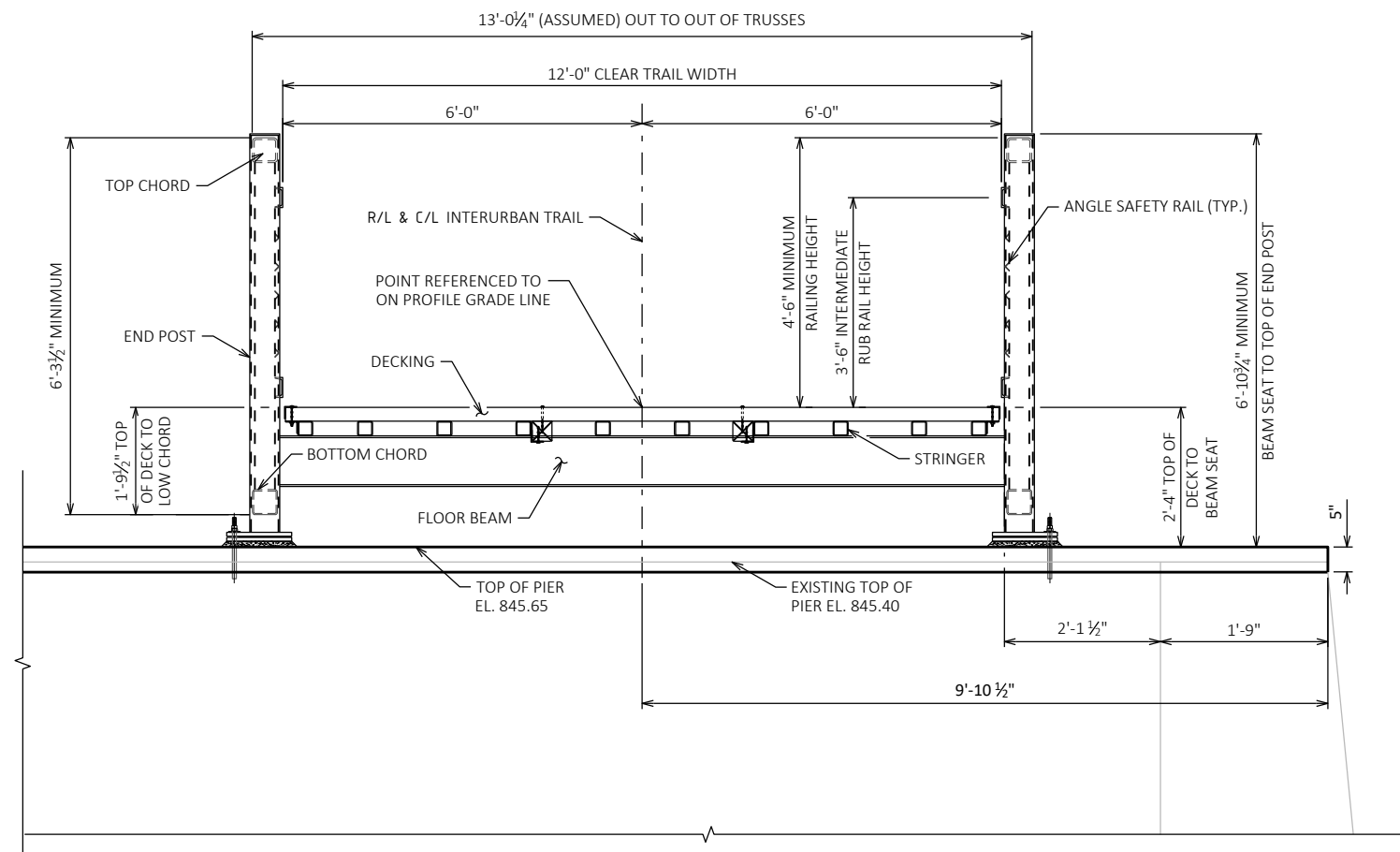
CROSS SECTION THRU TRAIL IN SPAN

(LOOKING EAST)
 (PREFABRICATED STEEL PRATT TRUSS STRUCTURE)

NOTE:
 BRIDGE SHALL RESEMBLE PHASE 1 BRIDGE.

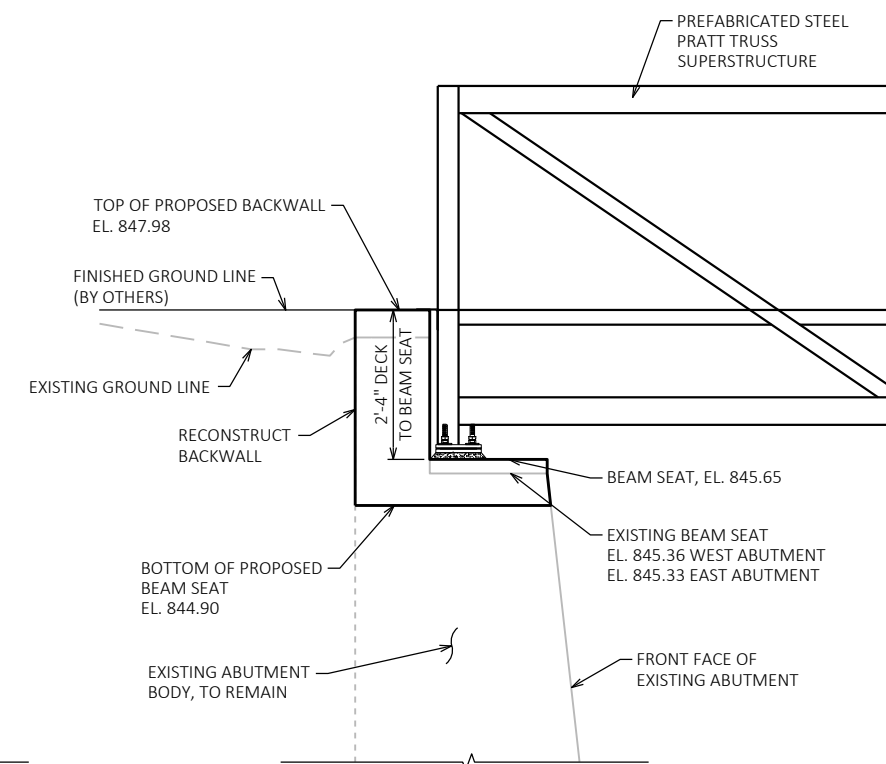


PROFILE GRADE LINE R/L INTERURBAN TRAIL



CROSS SECTION THRU TRAIL AT PIER

(LOOKING EAST)
 (PREFABRICATED STEEL PRATT TRUSS STRUCTURE)

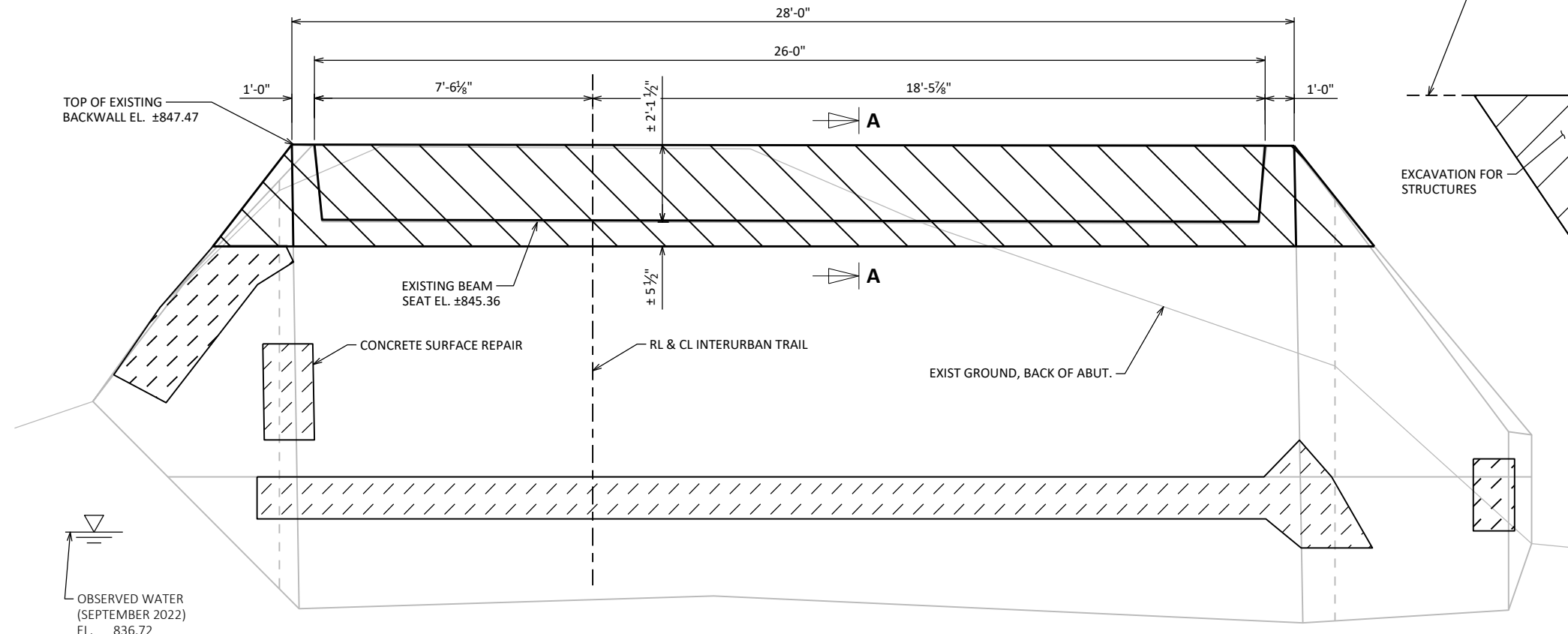


ABUTMENT BEAM SEAT DETAIL

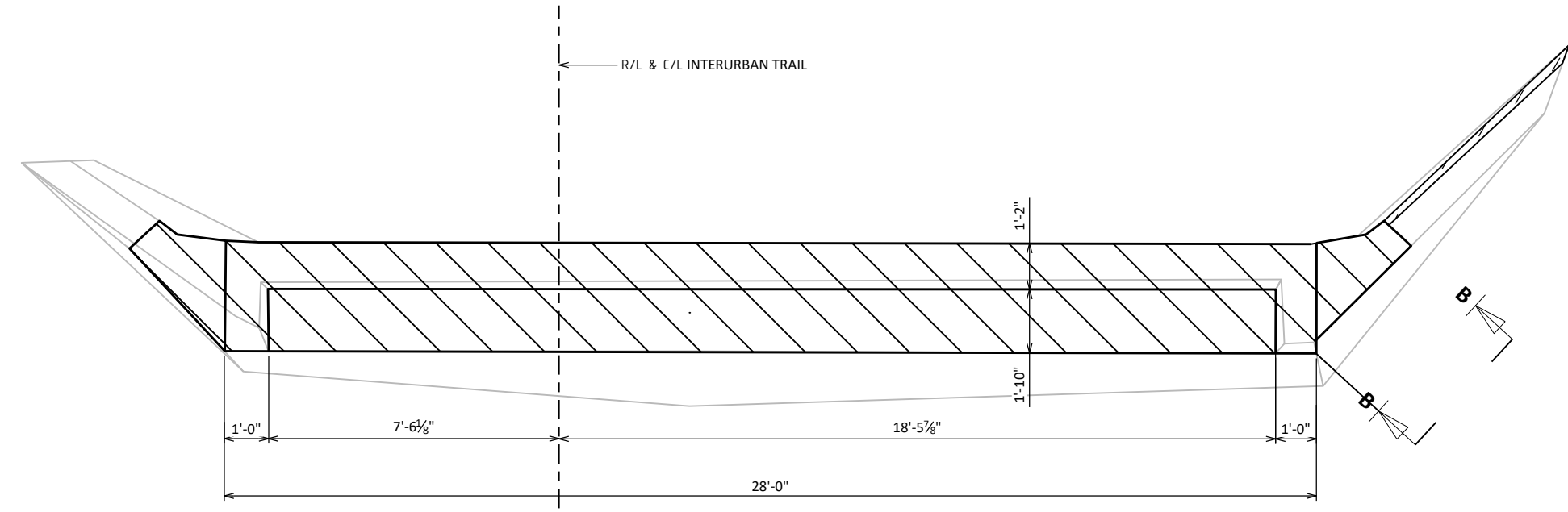
(TYPICAL AT BOTH ABUTMENTS)

| NO. | DATE | REVISION | BY |
|--|------|------------|---------------|
| JEFFERSON COUNTY | | | |
| PEDESTRIAN BRIDGE | | | |
| DRAWN BY | | PLANS CK'D | |
| GWK | | SKH | |
| TYPICAL SECTIONS AND QUANTITIES | | | SHEET 2 |
| | | | Page 11 of 21 |

SCALE =



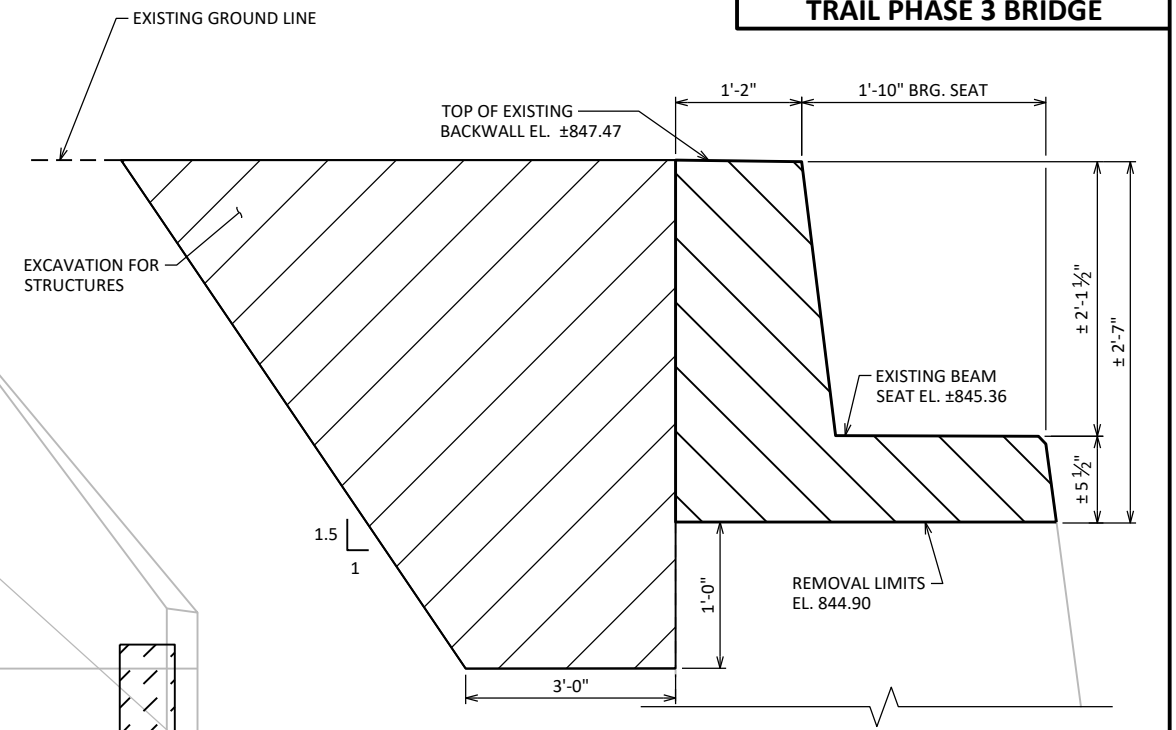
WEST ABUTMENT ELEVATION
 (LOOKING WEST)



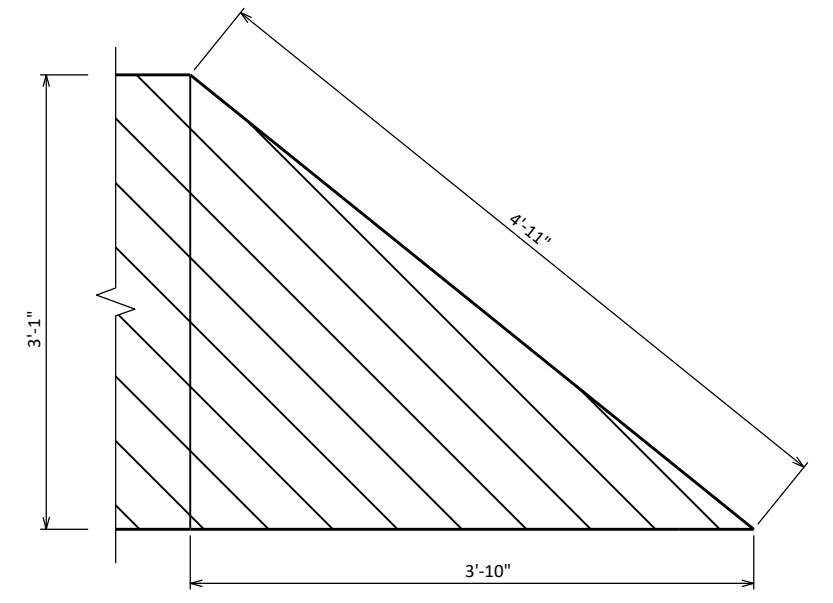
WEST ABUTMENT PLAN

NOTE:
 EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER.

- LEGEND:
- CONCRETE SURFACE REPAIR
 - CONCRETE REMOVAL



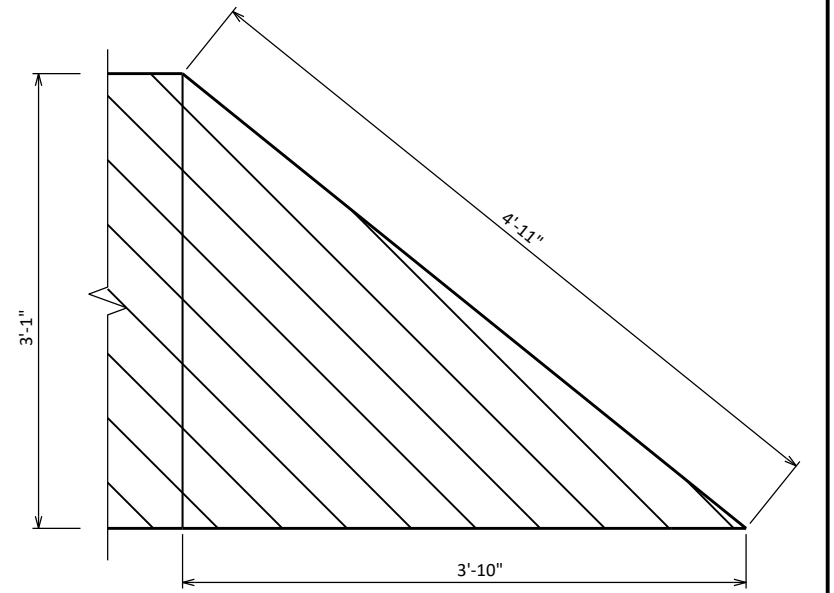
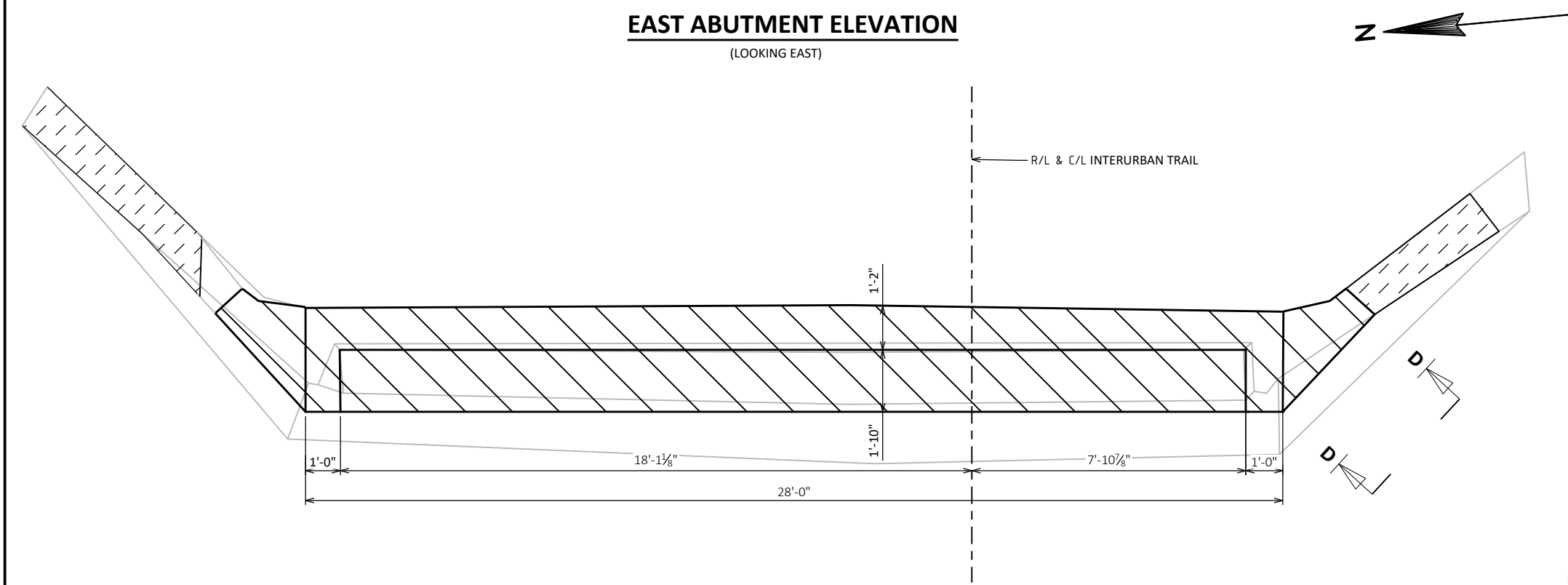
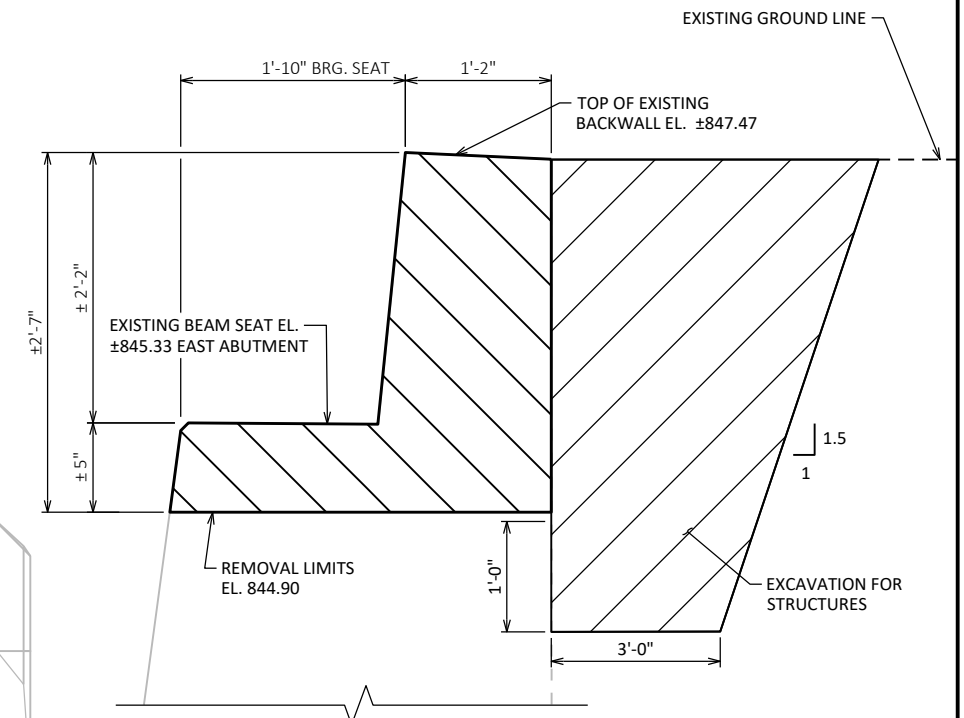
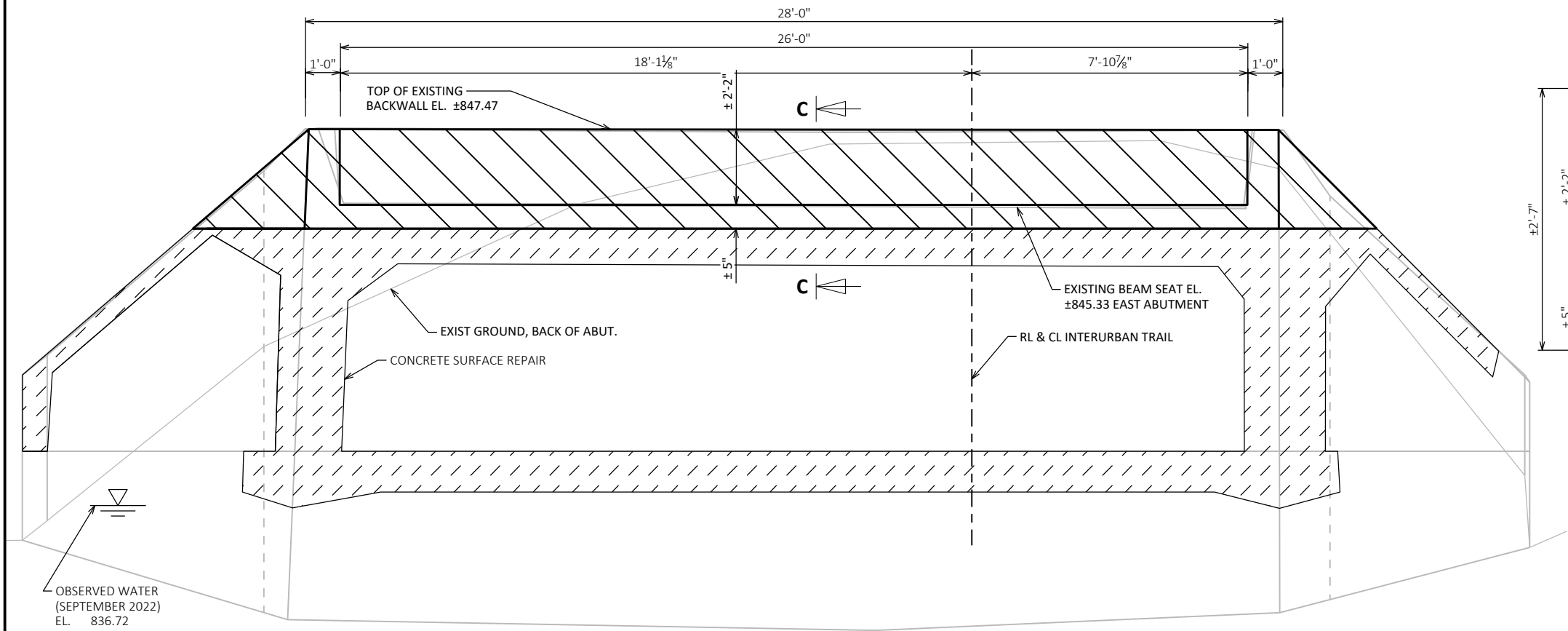
WEST ABUTMENT BEAM SEAT DETAIL
 SECTION A-A



WEST ABUTMENT WING DETAIL
 SECTION B-B

| NO. | DATE | REVISION | BY |
|--------------------------------------|------|------------|---------------|
| JEFFERSON COUNTY | | | |
| PEDESTRIAN BRIDGE | | | |
| DRAWN BY | | PLANS CK'D | |
| GWK | | SKH | |
| WEST ABUTMENT REMOVAL DETAILS | | | SHEET 3 |
| | | | Page 12 of 21 |

SCALE =

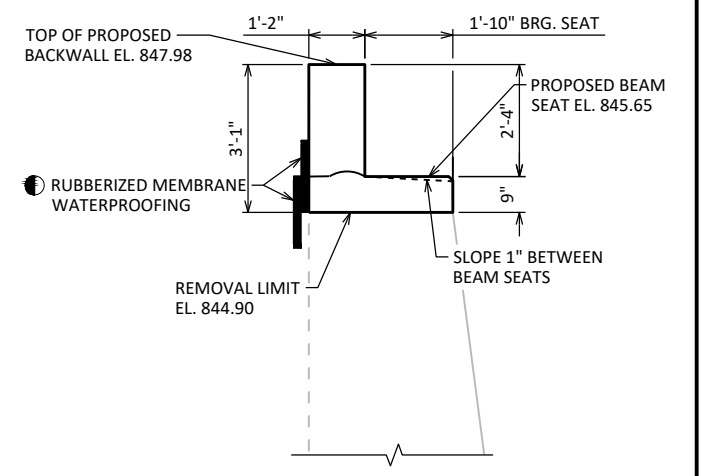
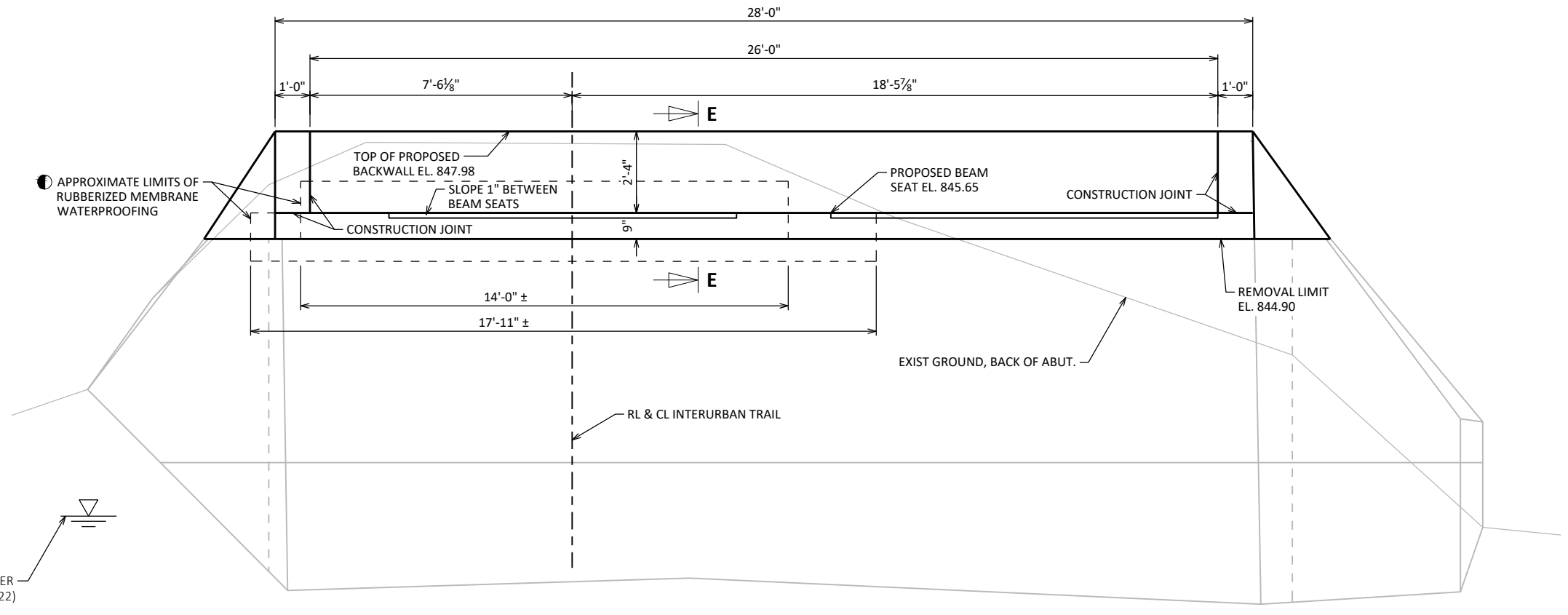


NOTE:
 EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER.

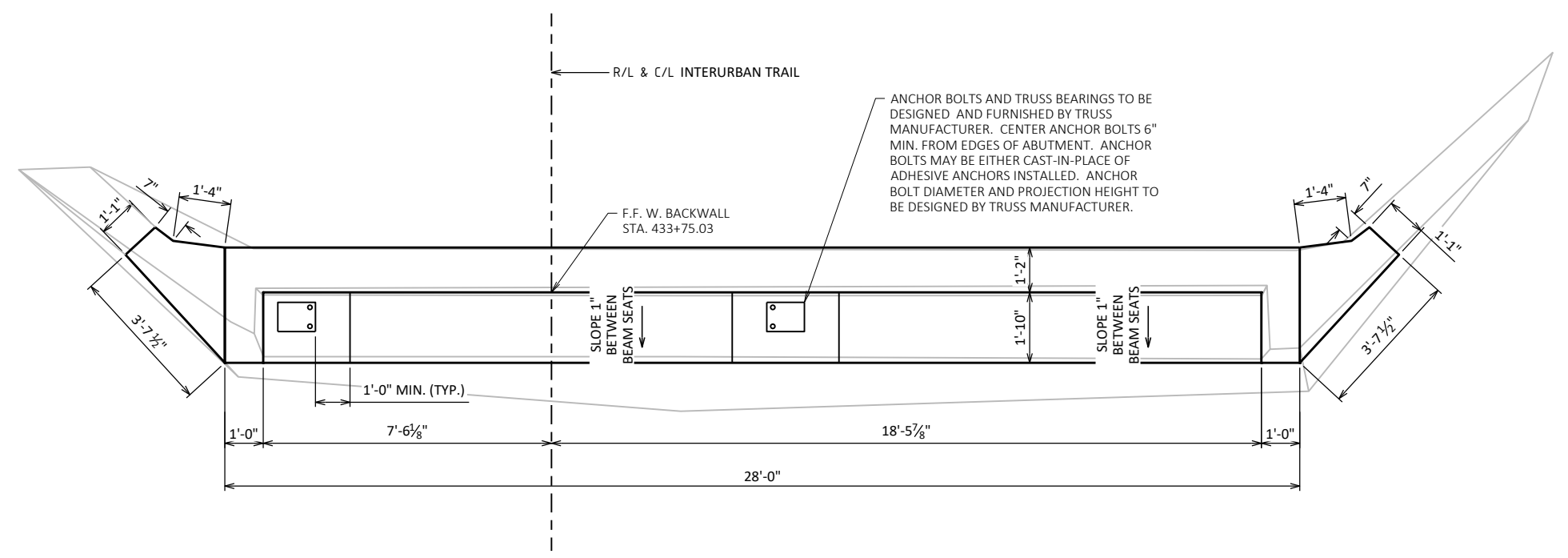
- LEGEND:
- CONCRETE SURFACE REPAIR
 - CONCRETE REMOVAL

| NO. | DATE | REVISION | BY |
|--------------------------------------|------|----------------|---------------|
| JEFFERSON COUNTY | | | |
| PEDESTRIAN BRIDGE | | | |
| DRAWN BY GWK | | PLANS CK'D SKH | |
| EAST ABUTMENT REMOVAL DETAILS | | | SHEET 4 |
| | | | Page 13 of 21 |

SCALE =



WEST ABUTMENT ELEVATION
 (LOOKING WEST)

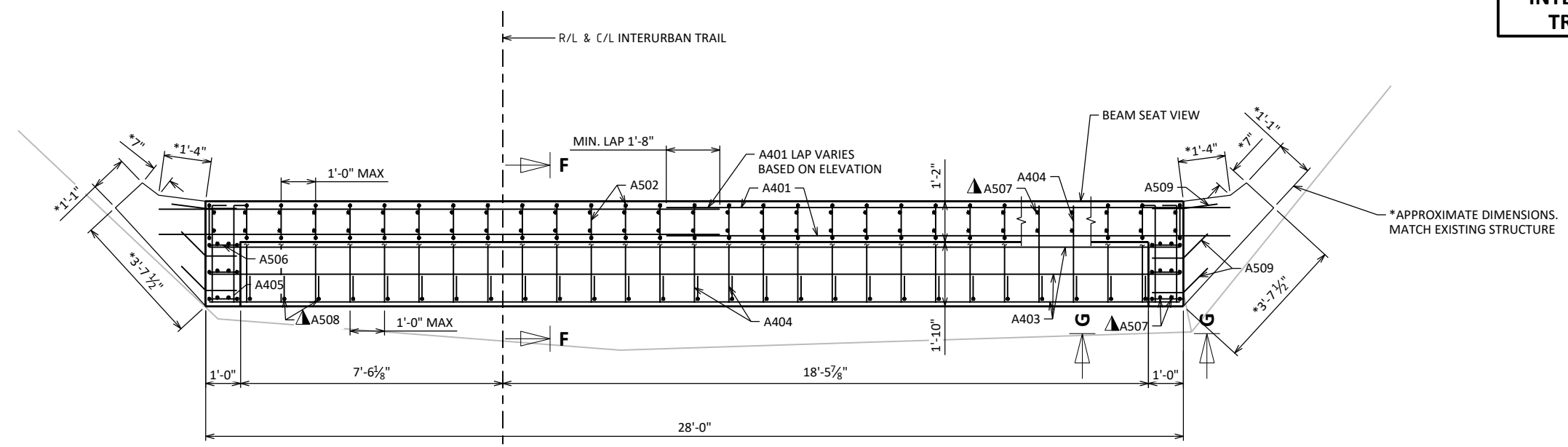


WEST ABUTMENT PLAN

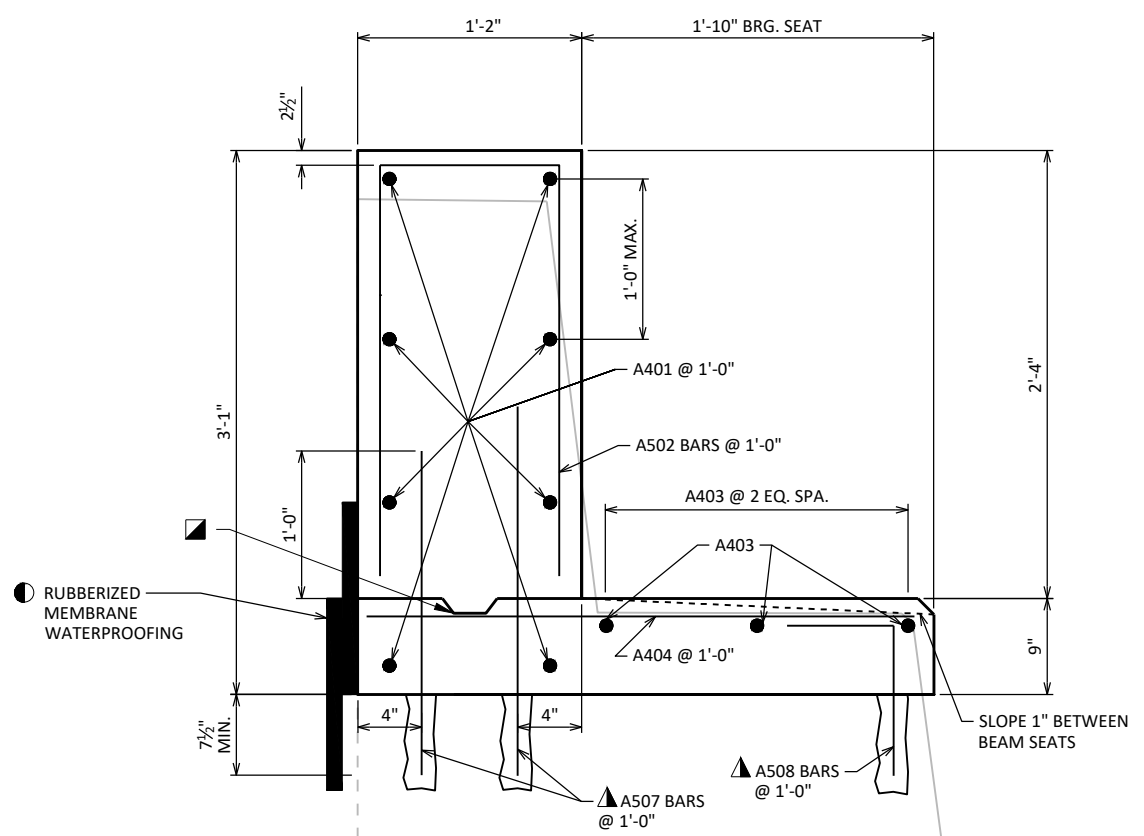
LEGEND
 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL PER HORIZ. JOINT AT BACKFACE WITHIN BACKFILL LIMITS.

| NO. | DATE | REVISION | BY |
|--------------------------|------|------------|---------------|
| JEFFERSON COUNTY | | | |
| PEDESTRIAN BRIDGE | | | |
| DRAWN BY | | PLANS CK'D | |
| GWK | | SKH | |
| WEST ABUTMENT | | | SHEET 5 |
| | | | Page 14 of 21 |

SCALE =

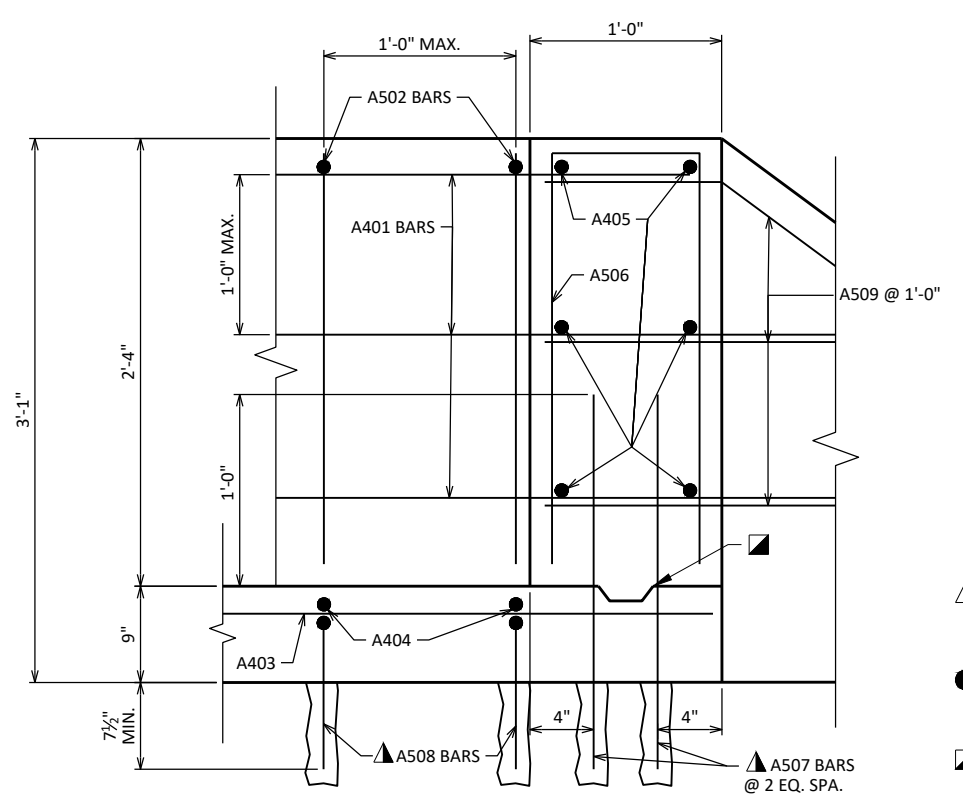


WEST ABUTMENT PLAN



WEST ABUTMENT BEAM SEAT DETAIL

SECTION F-F



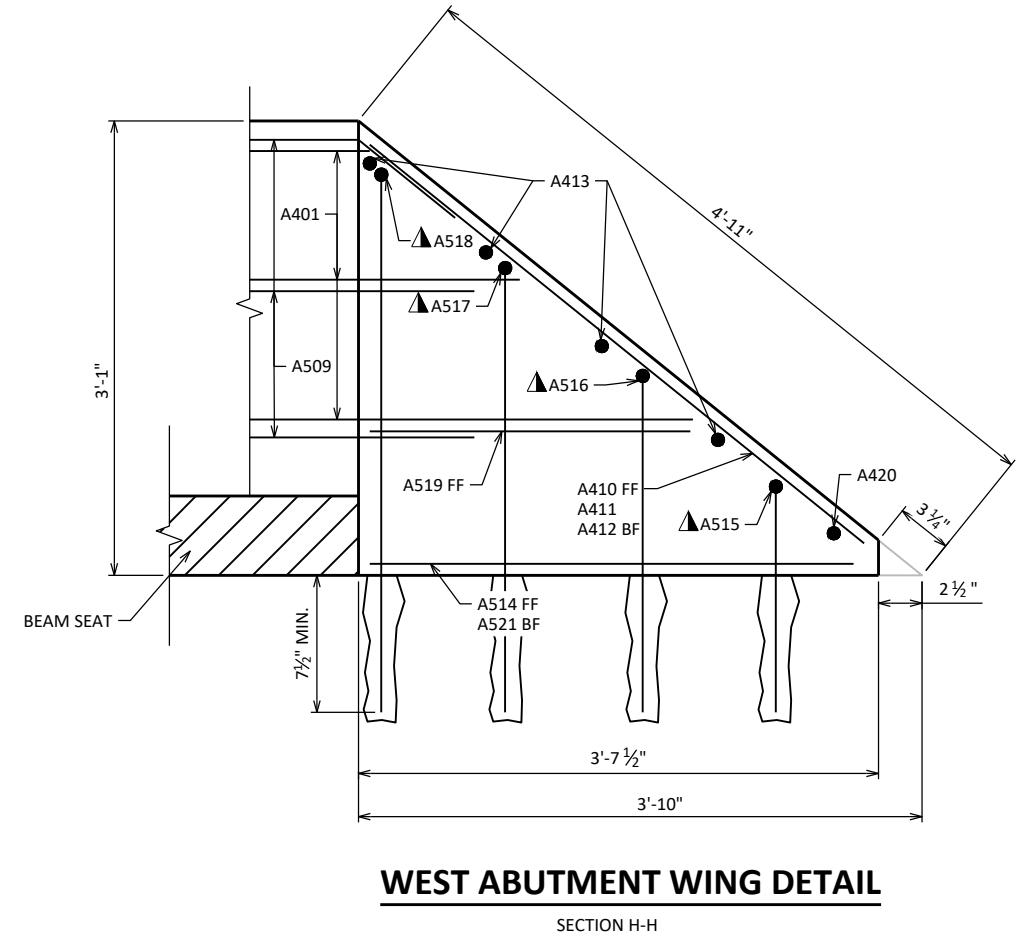
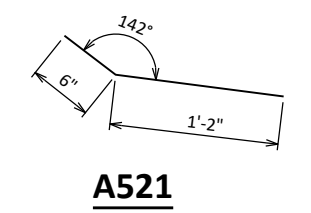
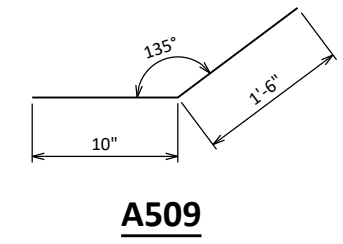
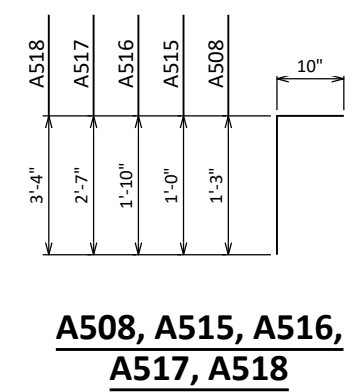
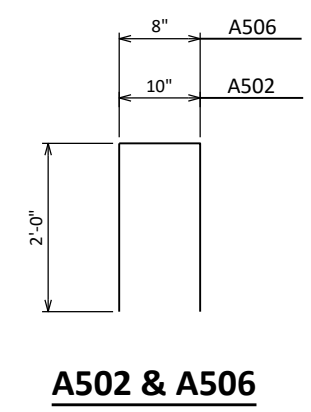
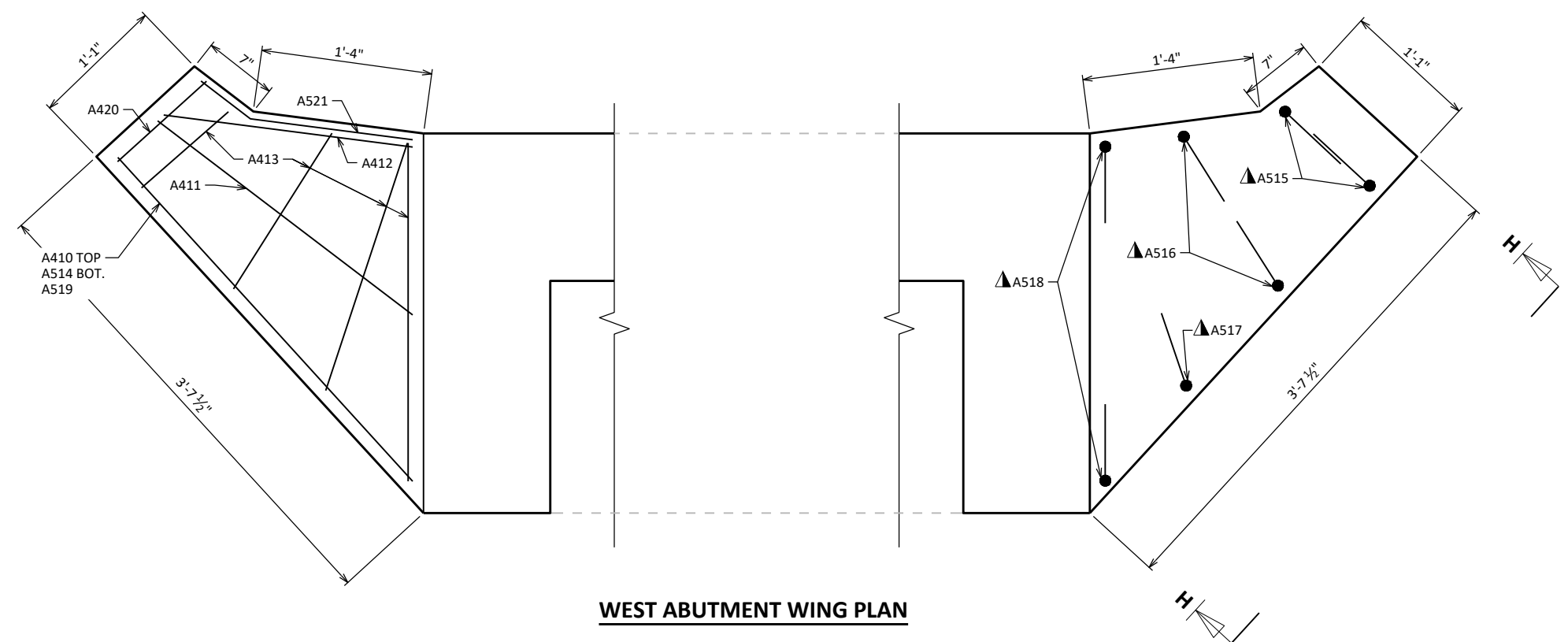
WEST ABUTMENT SIDE BEAM SEAT DETAIL

SECTION G-G
 (ABUTMENT BACKWALL ANCHOR BARS NOT SHOWN FOR CLARITY)

- LEGEND**
- ▲ ADHESIVE ANCHORS NO. 5 BAR EMBEDDED 7 1/2" IN CONCRETE. ANCHORS SHALL BE APPROVED FOR USE IN CRACKED CONCRETE.
 - 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL PER HORIZ. JOINT AT BACKFACE WITHIN BACKFILL LIMITS.
 - ▣ KEYED CONSTRUCTION JOINT - FORMED BY BEVELED 2" X 6".

| NO. | DATE | REVISION | BY |
|-----------------------------|------|------------|---------------|
| JEFFERSON COUNTY | | | |
| PEDESTRIAN BRIDGE | | | |
| DRAWN BY | | PLANS CK'D | |
| GWK | | SKH | |
| WEST ABUTMENT DETAIL | | | SHEET 6 |
| | | | Page 15 of 21 |

SCALE =



**TOTAL COATED = 550 LBS.
 TOTAL UNCOATED = 280 LBS.**

BILL OF BARS

| BAR MARK | NO. REQ'D | LENGTH | COAT | BENT | BAR SERIES | LOCATION |
|----------|-----------|--------|------|------|------------|--------------------------|
| A401 | 16 | 16'-0" | X | | | BACKWALL HORZ. |
| A502 | 29 | 4'-7" | X | X | | BACKWALL VERT. |
| A403 | 3 | 27'-7" | X | | | BEAM SEAT HORZ. - LONG. |
| A404 | 29 | 2'-6" | X | | | BEAM SEAT HORZ. - TRANS. |
| A405 | 12 | 3'-3" | X | X | | BEAM SEAT SIDE HORZ. |
| A506 | 6 | 4'-5" | X | X | | BEAM SEAT SIDE VERT. |
| A507 | 70 | 2'-5" | | | | BACKWALL VERT. ANCHOR |
| A508 | 27 | 2'-0" | | X | | BEAM SEAT VERT. ANCHOR |
| A509 | 18 | 2'-4" | X | X | | ABUT. TO WING HORZ. |
| A410 | 2 | 4'-0" | X | | | WING F.F. TOP LONG. |
| A411 | 2 | 3'-5" | X | | | WING MIDDLE TOP LONG. |
| A412 | 2 | 3'-2" | X | | | WING B.F. TOP LONG. |
| A413 | 8 | 1'-8" | X | | | WING TOP TRANS. |
| A514 | 2 | 3'-0" | X | | X | WING F.F. BOT. LONG. |
| A515 | 4 | 1'-9" | | X | | WING VERT. ANCHOR |
| A516 | 4 | 2'-6" | | X | | WING VERT. ANCHOR |
| A517 | 2 | 3'-4" | | X | | WING VERT. ANCHOR |
| A518 | 4 | 4'-1" | | X | | WING VERT. ANCHOR |
| A519 | 2 | 2'-0" | X | | | WING F.F. HORIZ. LONG. |
| A420 | 2 | 9" | X | | | WING END TRANS. |
| A521 | 2 | 1'-7" | X | X | | WING B.F. BOT. LONG. |

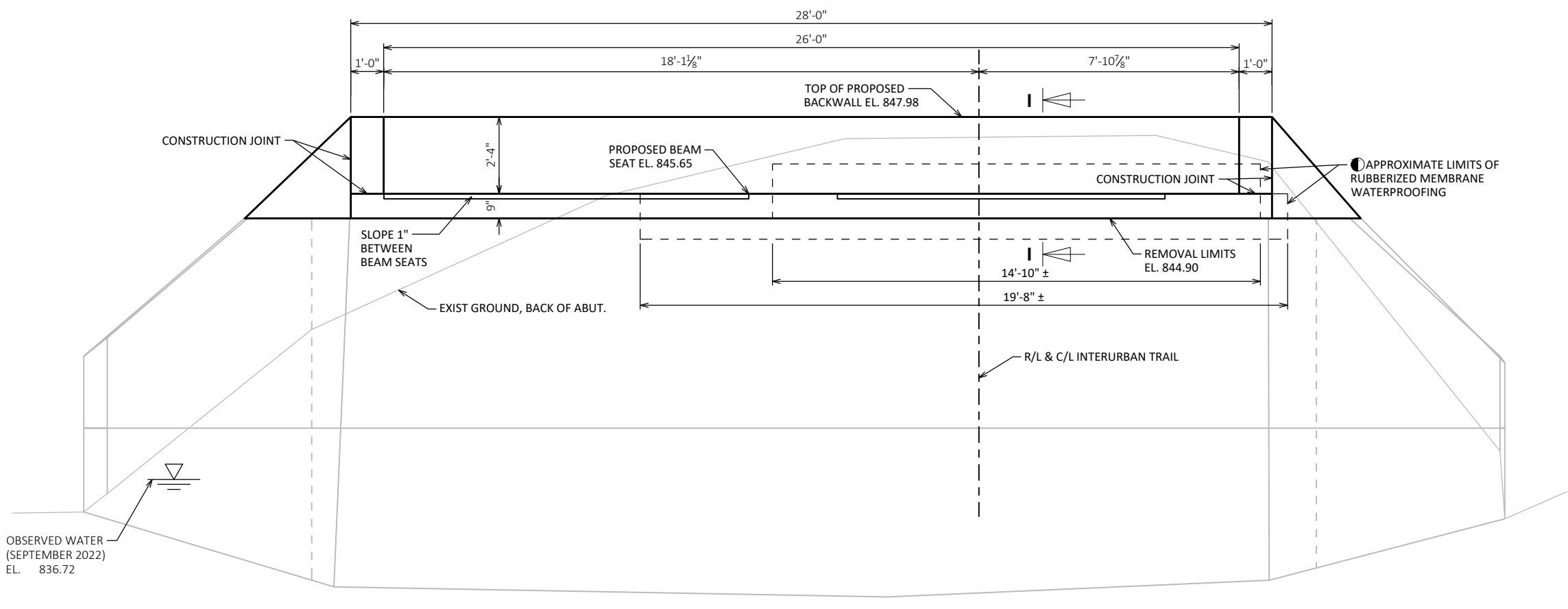
BAR SERIES TABLE

| MARK | NO. REQ'D | LENGTH |
|------|---------------|--------------|
| A413 | 2 SERIES OF 4 | 11" TO 2'-5" |

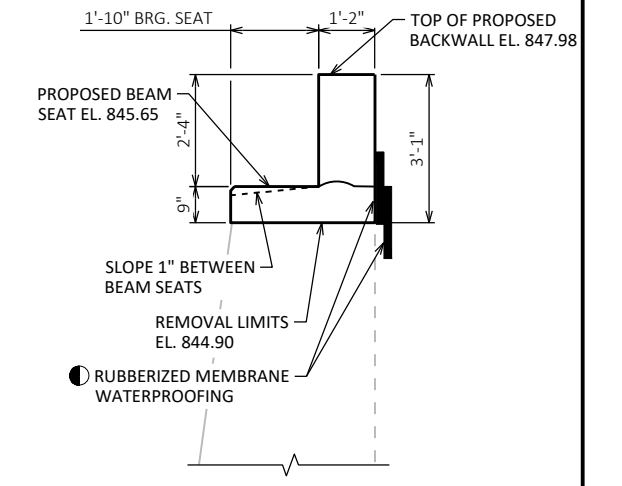
LEGEND
 ▲ ADHESIVE ANCHORS NO. 5 BAR EMBEDDED 7½" IN CONCRETE. ANCHORS SHALL BE APPROVED FOR USE IN CRACKED CONCRETE.

| NO. | DATE | REVISION | BY |
|----------------------------------|------|---------------|----|
| JEFFERSON COUNTY | | | |
| PEDESTRIAN BRIDGE | | | |
| DRAWN BY | | PLANS CK'D | |
| GWK | | SKH | |
| WEST ABUTMENT WING DETAIL | | SHEET 7 | |
| | | Page 16 of 21 | |

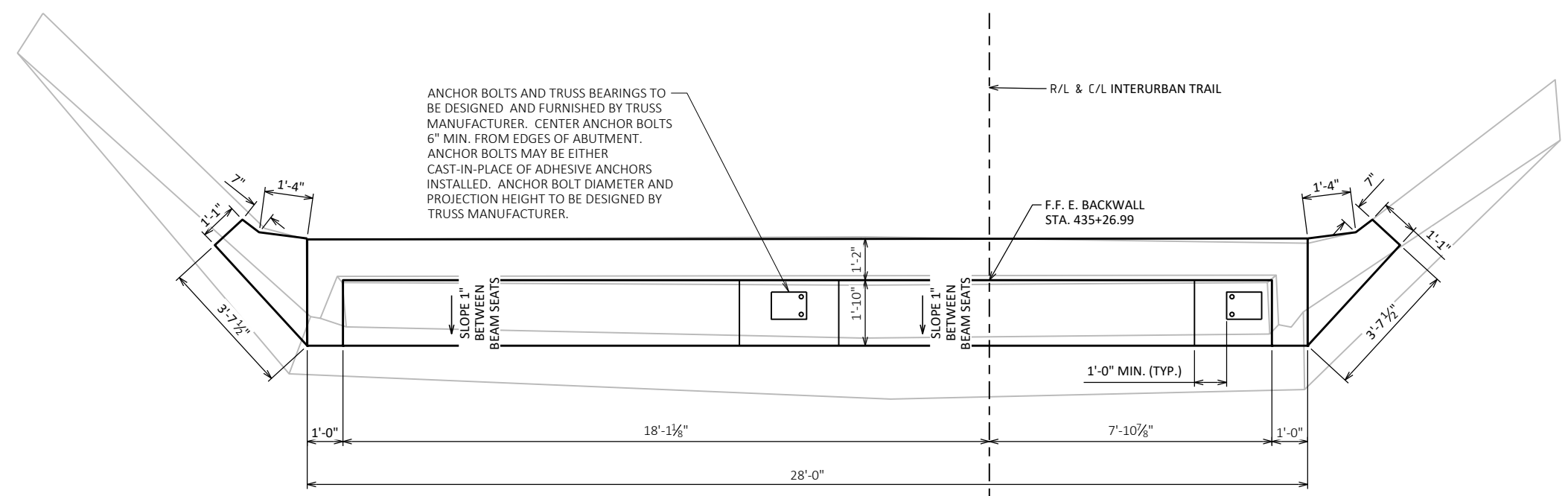
SCALE =



EAST ABUTMENT ELEVATION
 (LOOKING EAST)



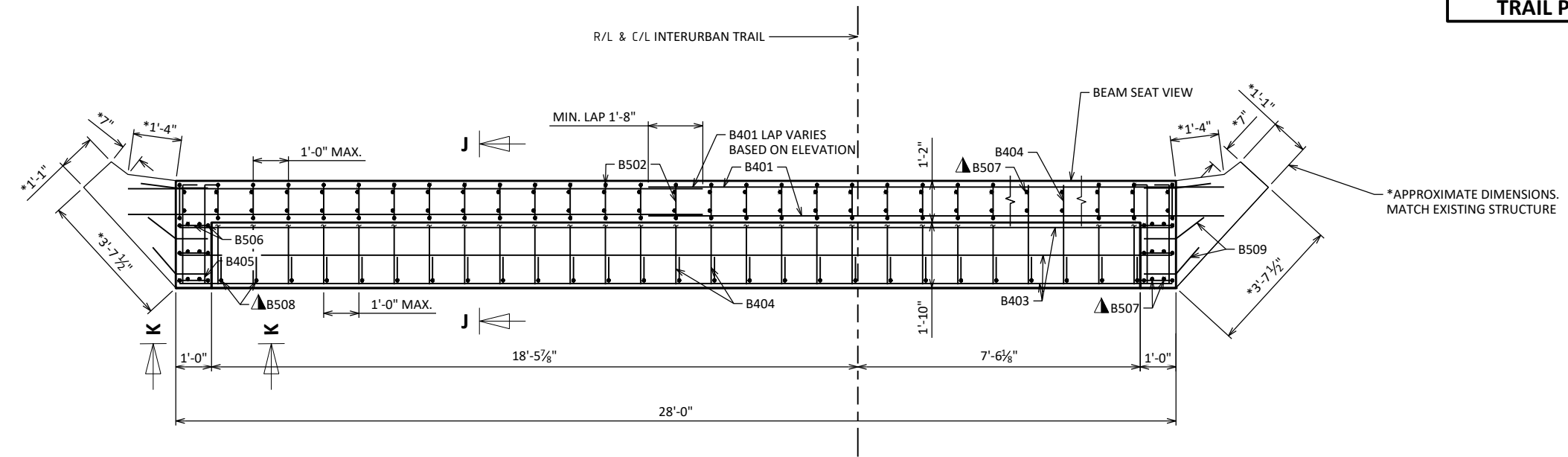
EAST ABUTMENT BEAM SEAT DETAIL
 SECTION I-I



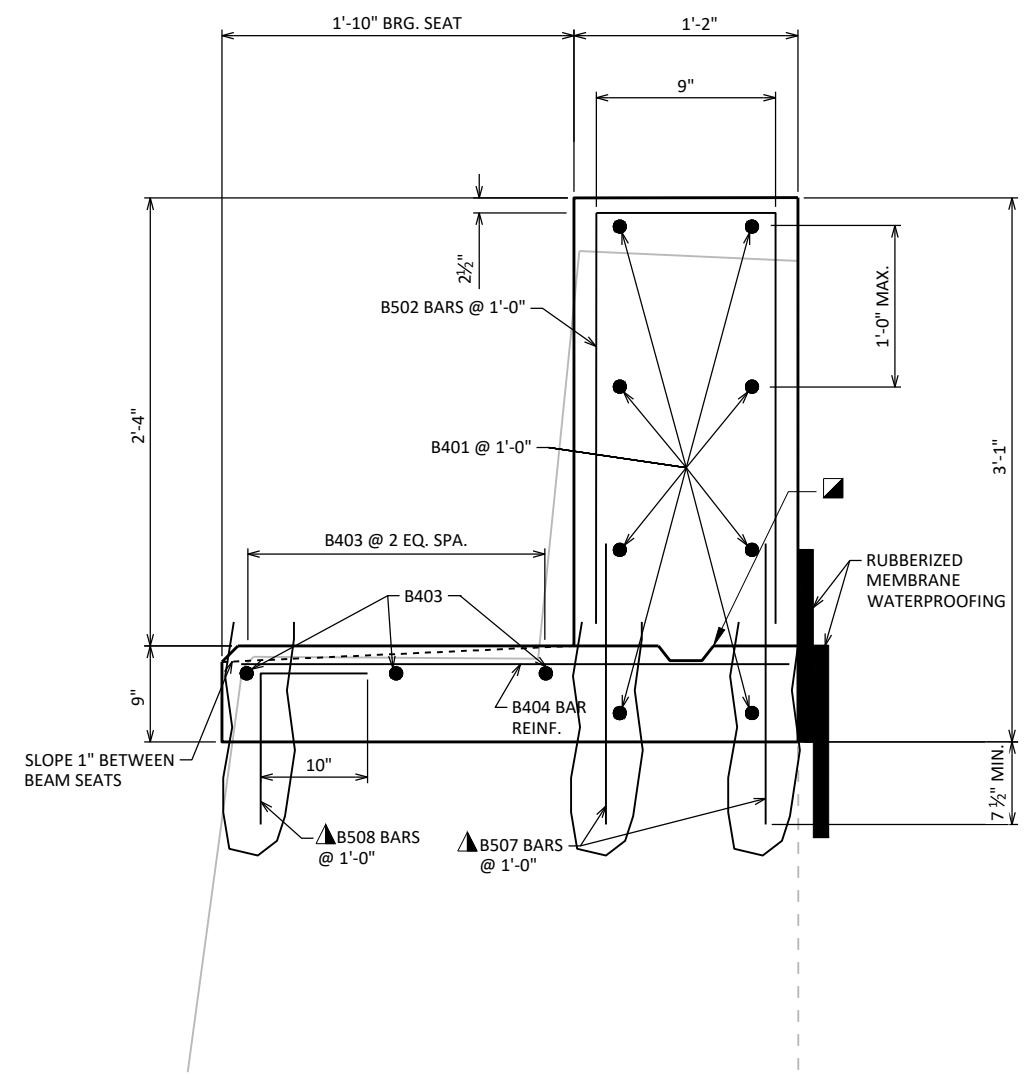
EAST ABUTMENT PLAN

LEGEND
 ● 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL PER HORIZ. JOINT AT BACKFACE WITHIN BACKFILL LIMITS.

| NO. | DATE | REVISION | BY |
|--------------------------|------|------------|---------|
| JEFFERSON COUNTY | | | |
| PEDESTRIAN BRIDGE | | | |
| DRAWN BY | | PLANS CK'D | |
| GWK | | SKH | |
| EAST ABUTMENT | | | SHEET 8 |
| Page 17 of 21 | | | SCALE = |

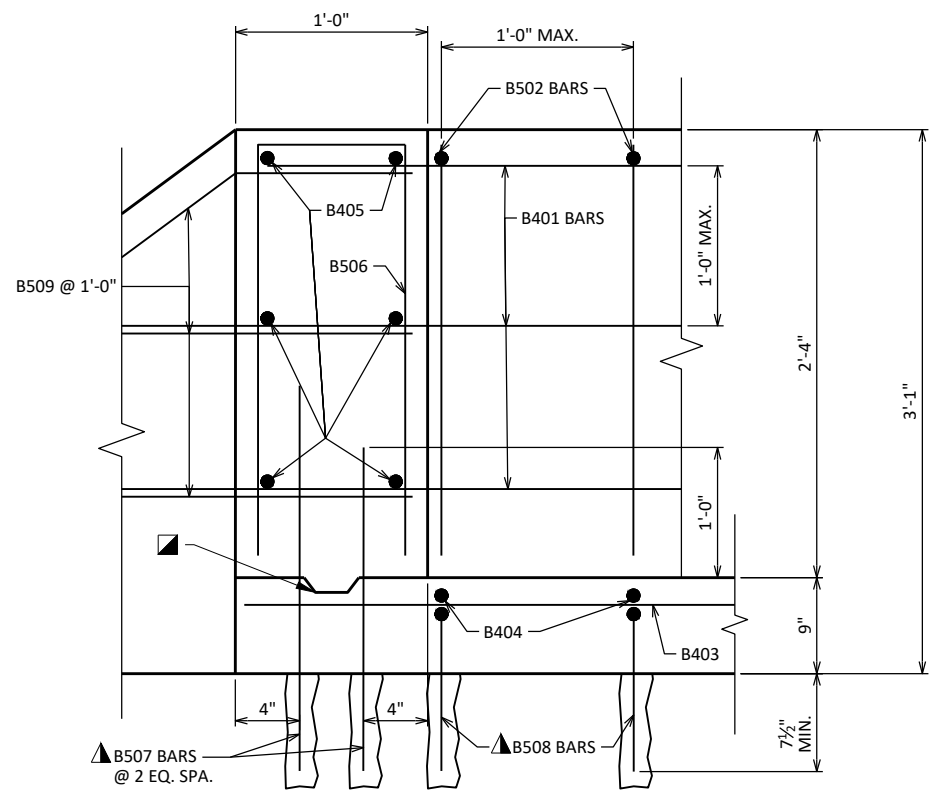


EAST ABUTMENT PLAN



EAST ABUTMENT BEAM SEAT DETAIL

SECTION I-I
 (ABUTMENT BACKWALL ANCHOR BARS NOT
 SHOWN FOR CLARITY)



EAST ABUTMENT SIDE BEAM SEAT DETAIL

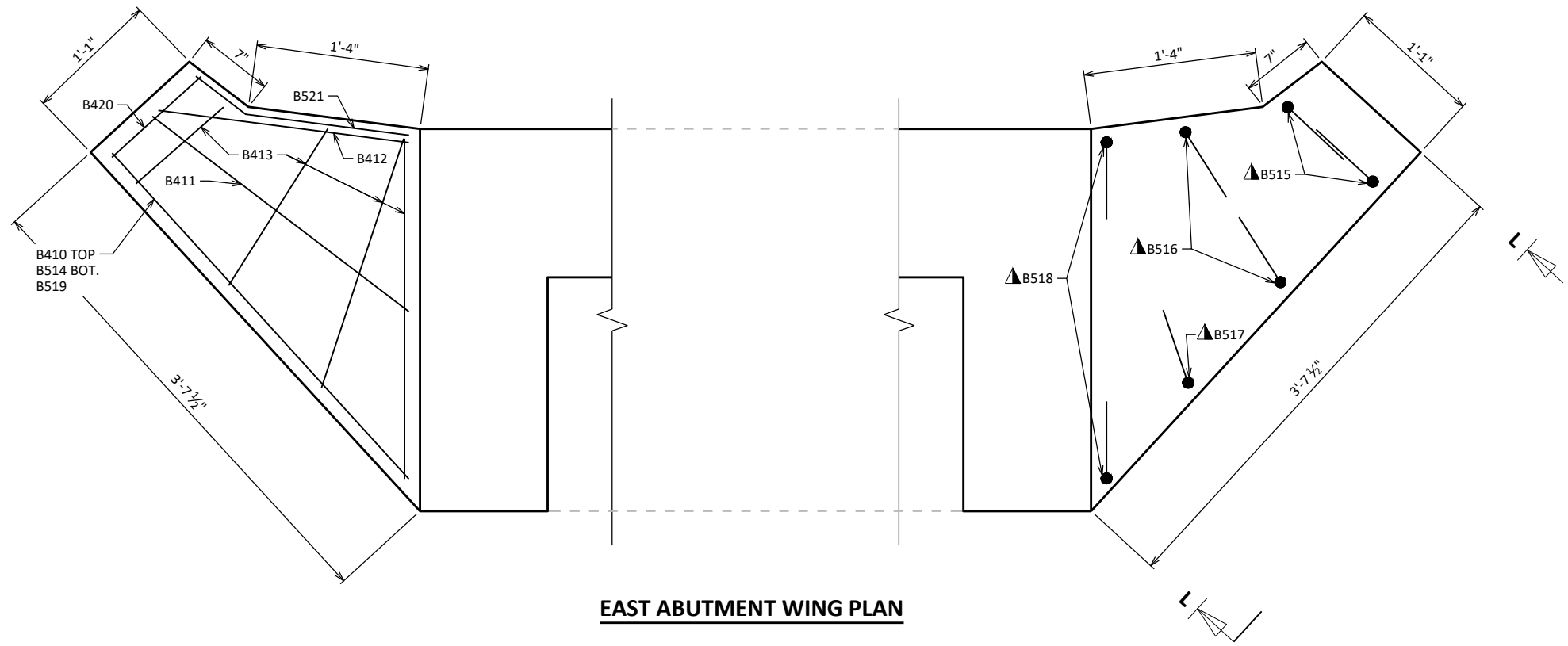
SECTION K-K

*APPROXIMATE DIMENSIONS.
 MATCH EXISTING STRUCTURE

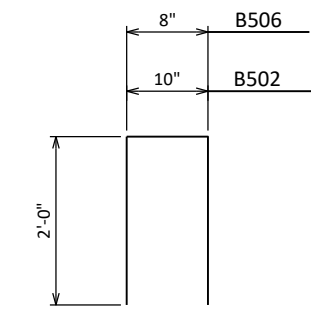
- LEGEND**
- ▲ ADHESIVE ANCHORS NO. 5 BAR EMBEDDED 7 1/2" IN CONCRETE. ANCHORS SHALL BE APPROVED FOR USE IN CRACKED CONCRETE.
 - 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL PER HORIZ. JOINT AT BACKFACE WITHIN BACKFILL LIMITS.
 - KEYED CONSTRUCTION JOINT - FORMED BY BEVELED 2" X 6".

| NO. | DATE | REVISION | BY |
|-----------------------------|------|------------|---------------|
| JEFFERSON COUNTY | | | |
| PEDESTRIAN BRIDGE | | | |
| DRAWN BY | | PLANS CK'D | |
| GWK | | SKH | |
| EAST ABUTMENT DETAIL | | | SHEET 9 |
| | | | Page 18 of 21 |

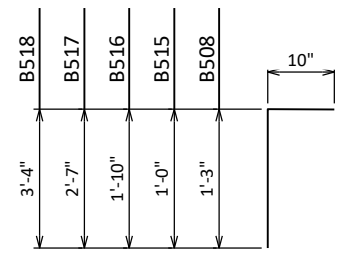
SCALE =



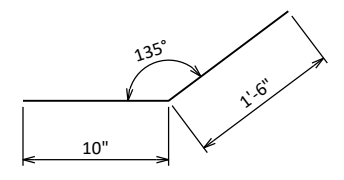
EAST ABUTMENT WING PLAN



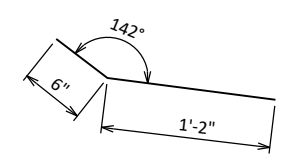
B502 & B506



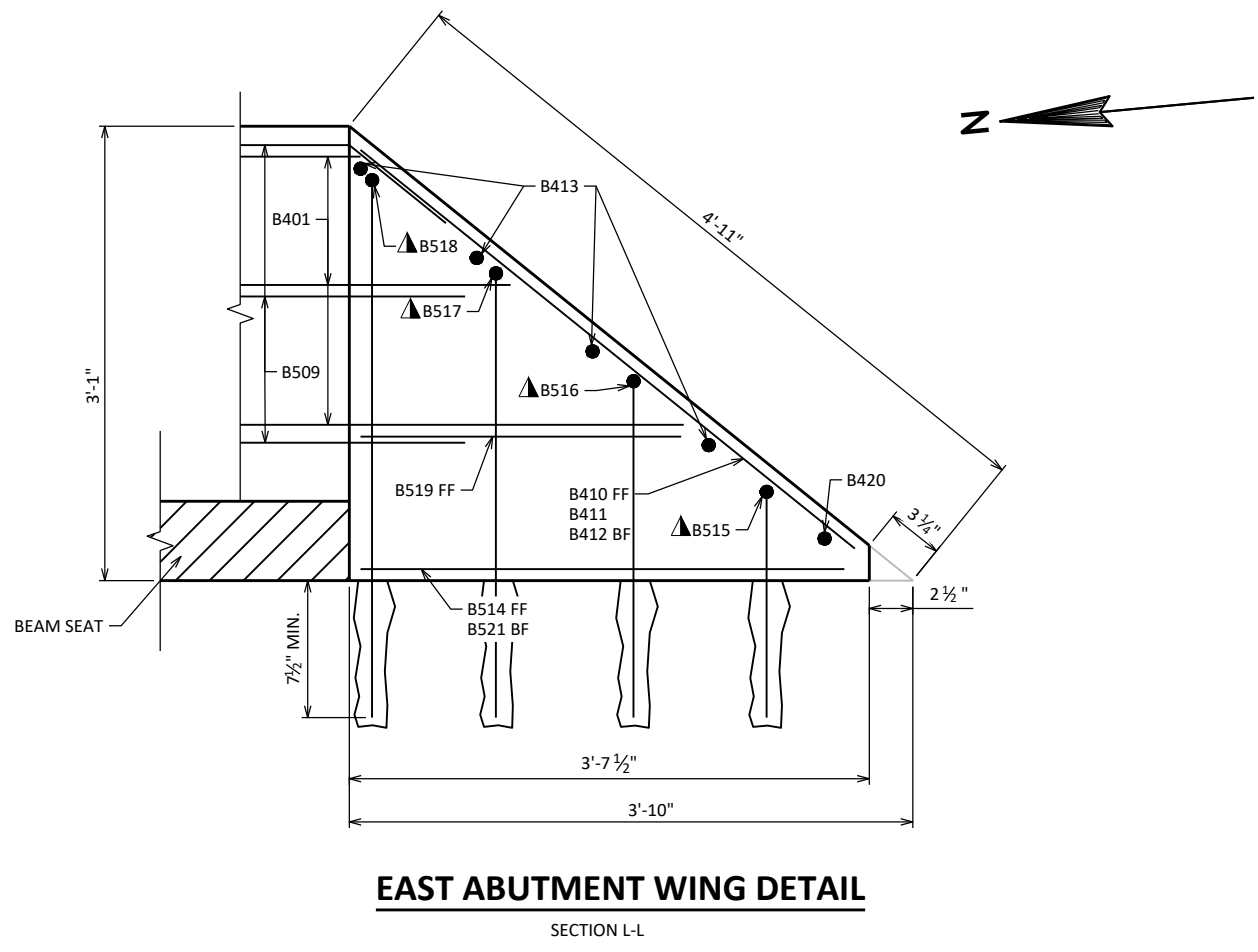
**B508, B515, B516,
 B517, B518**



B509



B521



EAST ABUTMENT WING DETAIL

SECTION L-L

BILL OF BARS

**TOTAL COATED = 550 LBS.
 TOTAL UNCOATED = 280 LBS.**

| BAR MARK | NO. REQ'D | LENGTH | COAT | BENT | BAR SERIES | LOCATION |
|----------|-----------|--------|------|------|------------|--------------------------|
| B401 | 16 | 16'-0" | X | | | BACKWALL HORZ. |
| B502 | 29 | 4'-7" | X | X | | BACKWALL VERT. |
| B403 | 3 | 27'-7" | X | | | BEAM SEAT HORZ. - LONG. |
| B404 | 29 | 2'-6" | X | | | BEAM SEAT HORZ. - TRANS. |
| B405 | 12 | 3'-3" | X | X | | BEAM SEAT SIDE HORZ. |
| B506 | 6 | 4'-5" | X | X | | BEAM SEAT SIDE VERT. |
| B507 | 70 | 2'-5" | | | | BACKWALL VERT. ANCHOR |
| B508 | 27 | 2'-0" | | X | | BEAM SEAT VERT. ANCHOR |
| B509 | 18 | 2'-4" | X | X | | ABUT. TO WING HORZ. |
| B410 | 2 | 4'-0" | X | | | WING F.F. TOP LONG. |
| B411 | 2 | 3'-5" | X | | | WING MIDDLE TOP LONG. |
| B412 | 2 | 3'-2" | X | | | WING B.F. TOP LONG. |
| B413 | 8 | 1'-8" | X | | | WING TOP TRANS. |
| B514 | 2 | 3'-0" | X | | X | WING F.F. BOT. LONG. |
| B515 | 4 | 1'-9" | | X | | WING VERT. ANCHOR |
| B516 | 4 | 2'-6" | | X | | WING VERT. ANCHOR |
| B517 | 2 | 3'-4" | | X | | WING VERT. ANCHOR |
| B518 | 4 | 4'-1" | | X | | WING VERT. ANCHOR |
| B519 | 2 | 2'-0" | X | | | WING F.F. HORIZ. LONG. |
| B420 | 2 | 9" | X | | | WING END TRANS. |
| B521 | 2 | 1'-7" | X | X | | WING B.F. BOT. LONG. |

BAR SERIES TABLE

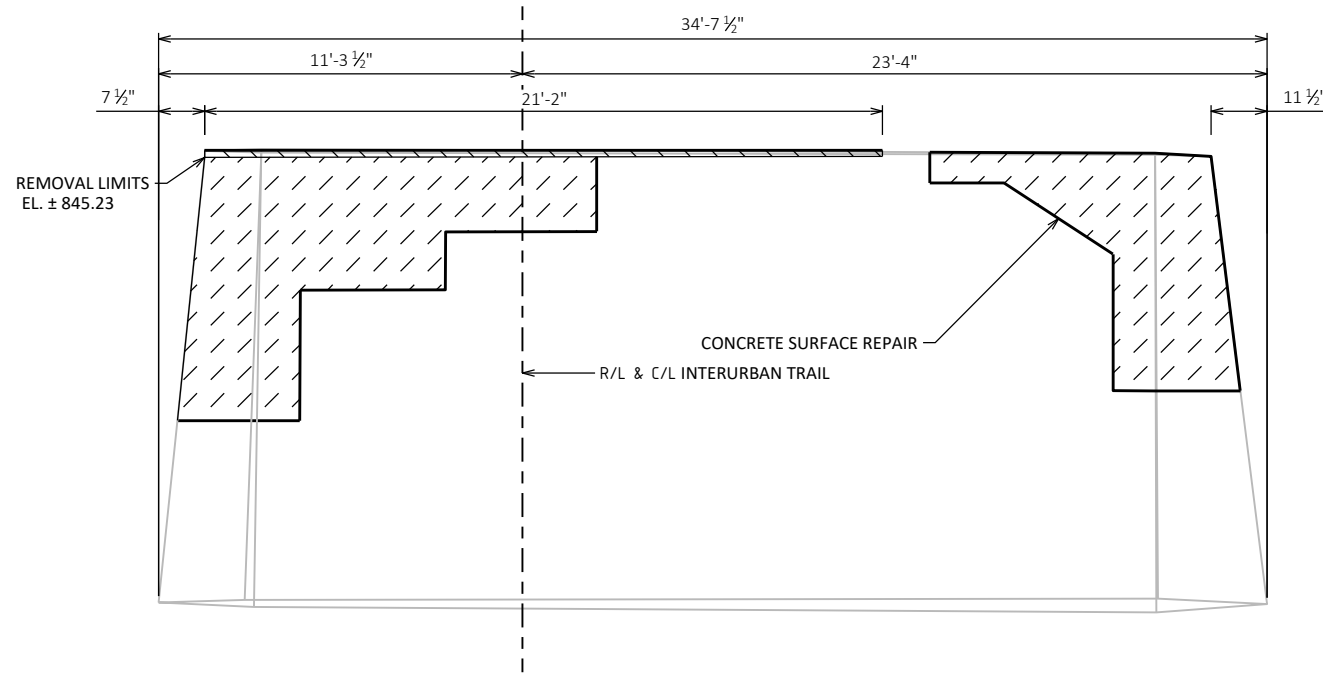
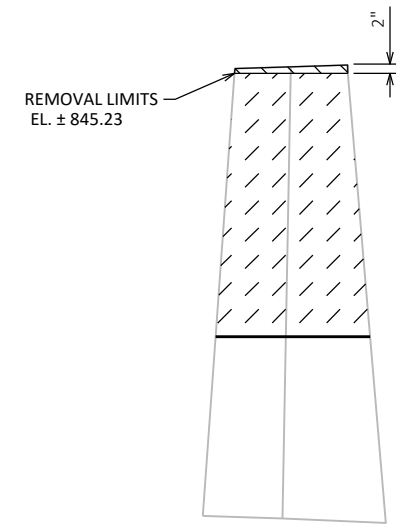
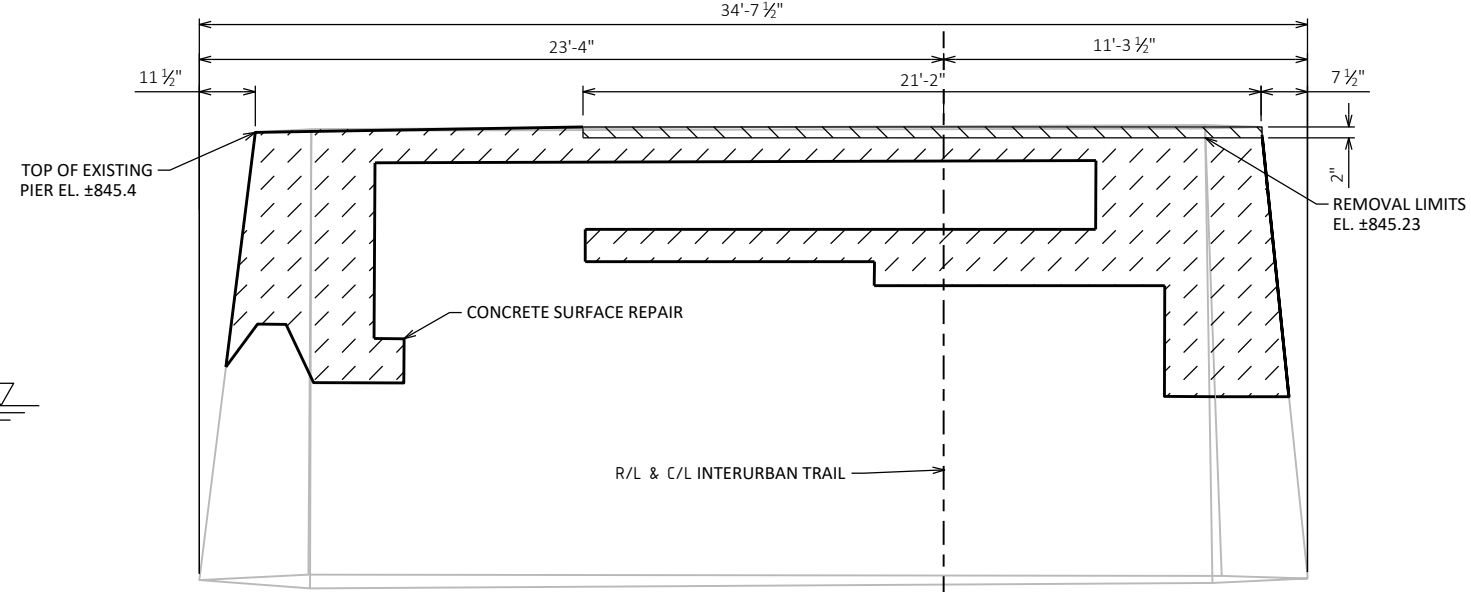
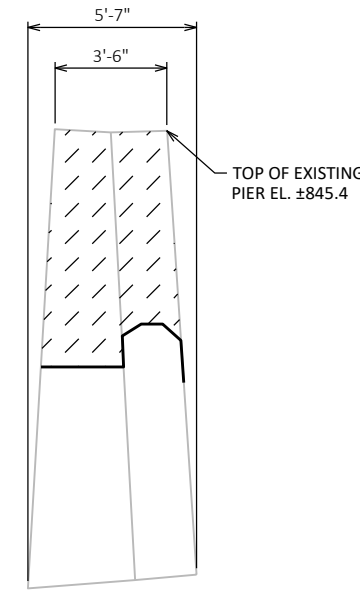
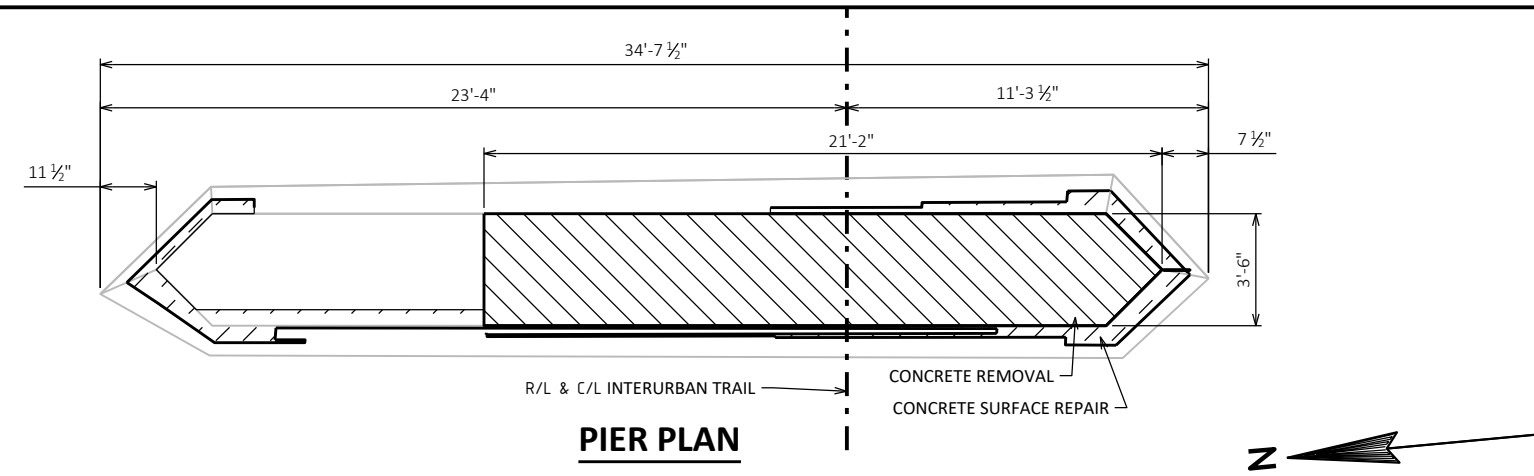
| MARK | NO. REQ'D | LENGTH |
|------|---------------|--------------|
| B413 | 2 SERIES OF 4 | 11" TO 2'-5" |

LEGEND

▲ ADHESIVE ANCHORS NO. 5 BAR EMBEDDED 7 1/2" IN CONCRETE. ANCHORS SHALL BE APPROVED FOR USE IN CRACKED CONCRETE.

| NO. | DATE | REVISION | BY |
|----------------------------------|------|----------------|----|
| JEFFERSON COUNTY | | | |
| PEDESTRIAN BRIDGE | | | |
| DRAWN BY GWK | | PLANS CK'D SKH | |
| EAST ABUTMENT WING DETAIL | | SHEET 10 | |
| | | Page 19 of 21 | |

SCALE =



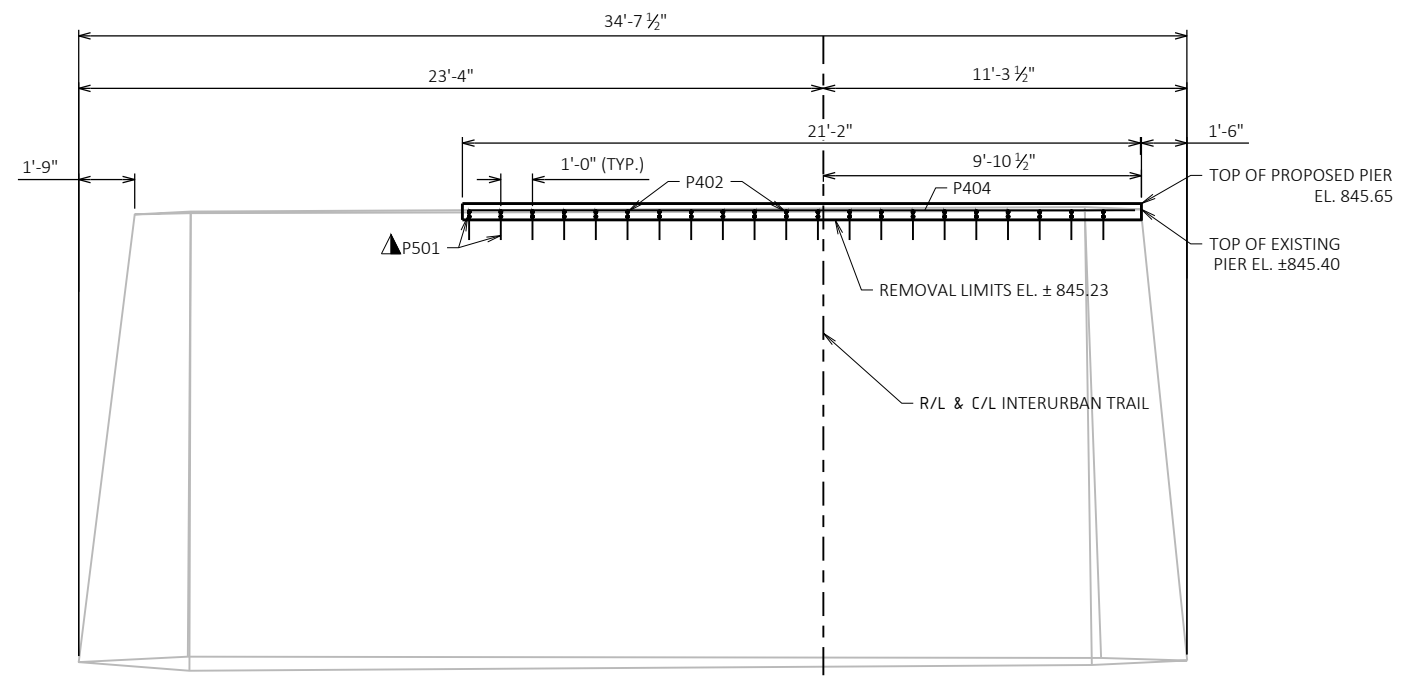
LEGEND:

[Hatched pattern] CONCRETE SURFACE REPAIR

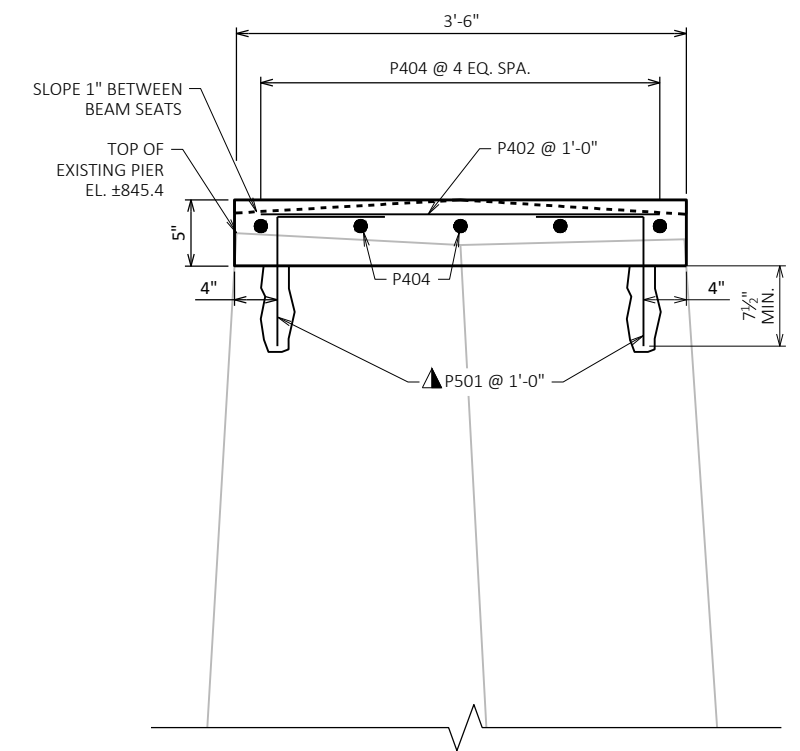
[Dotted pattern] CONCRETE REMOVAL

| NO. | DATE | REVISION | BY |
|---------------------------------|------|--------------------------|----|
| JEFFERSON COUNTY | | | |
| STRUCTURE | | PEDESTRIAN BRIDGE | |
| DRAWN BY GWK | | PLANS CK'D SKH | |
| PIER REMOVAL DETAILS | | SHEET 11 | |
| | | Page 20 of 21 | |

SCALE =

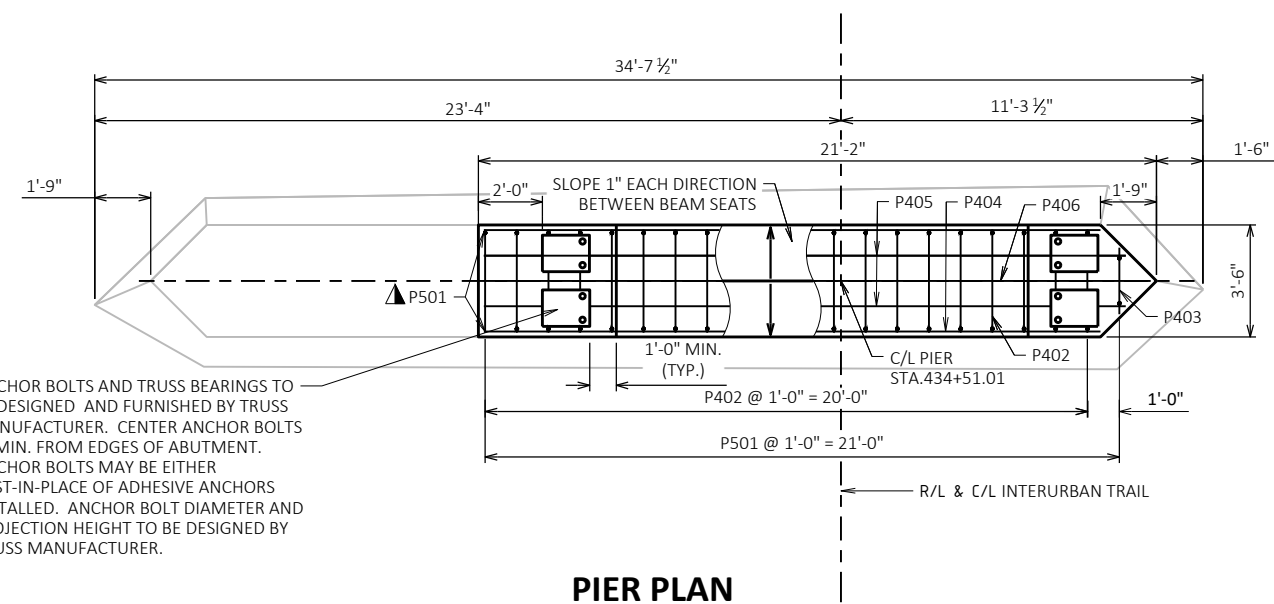


PIER ELEVATION



PIER CAP ELEVATION
 (SOUTH END LOOKING NORTH)

OBSERVED WATER
 (SEPTEMBER 2022)
 EL. 836.72



PIER PLAN

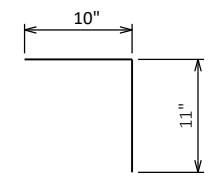
ANCHOR BOLTS AND TRUSS BEARINGS TO BE DESIGNED AND FURNISHED BY TRUSS MANUFACTURER. CENTER ANCHOR BOLTS 6" MIN. FROM EDGES OF ABUTMENT. ANCHOR BOLTS MAY BE EITHER CAST-IN-PLACE OF ADHESIVE ANCHORS INSTALLED. ANCHOR BOLT DIAMETER AND PROJECTION HEIGHT TO BE DESIGNED BY TRUSS MANUFACTURER.

BILL OF BARS **TOTAL COATED = 110 LBS.**
TOTAL UNCOATED = 70 LBS.

| BAR MARK | NO. REQ'D. | LENGTH | COAT | BENT | LOCATION |
|----------|------------|---------|------|------|-------------------------|
| P501 | 42 | 1'-7" | | X | PIER - VERTICAL ANCHOR |
| P402 | 20 | 3'-2" | X | | PIER - TRANSVERSE |
| P403 | 1 | 1'-6" | X | | PIER - TRANSVERSE - END |
| P404 | 2 | 19'-3" | X | | PIER - HORIZONTAL - TOP |
| P405 | 2 | 20'-0" | X | | PIER - HORIZONTAL - TOP |
| P406 | 1 | 20'-10" | X | | PIER - HORIZONTAL - TOP |

LEGEND

 ADHESIVE ANCHORS NO. 5 BAR EMBEDDED 7 1/2" IN CONCRETE. ANCHORS SHALL BE APPROVED FOR USE IN CRACKED CONCRETE.



P501

| | | | |
|------------------------------------|------|----------------|---------------|
| NO. | DATE | REVISION | BY |
| JEFFERSON COUNTY | | | |
| STRUCTURE PEDESTRIAN BRIDGE | | | |
| DRAWN BY GWK | | PLANS CK'D SKH | |
| PIER DETAILS | | | SHEET 12 |
| | | | Page 21 of 21 |

SCALE =