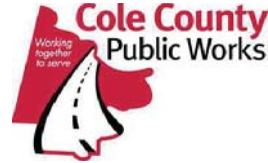


# COLE COUNTY, MISSOURI DEPARTMENT OF PUBLIC WORKS



## TANNER BRIDGE ROAD - ROAD AND BRIDGE REPLACEMENT

### FINAL PLANS

FEDERAL AID PROJECT NO. BRO-R026(025)

AUGUST 2025



KEY MAP

#### SYMBOL LEGEND

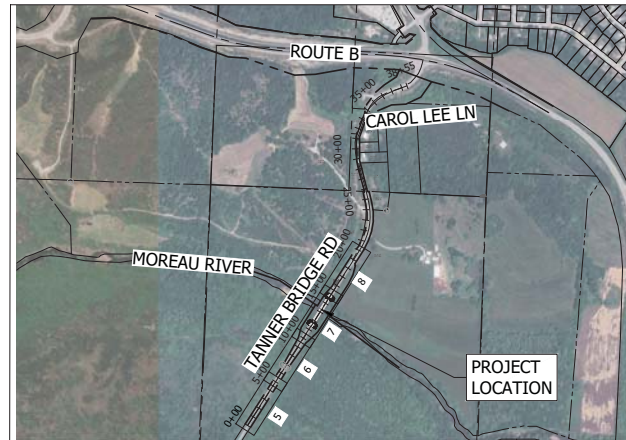
|                            |                               |
|----------------------------|-------------------------------|
| □ MONUMENT FOUND           | ⊗ WATER METER                 |
| ● HORIZONTAL CONTROL POINT | ⊗ WATER VALVE                 |
| ⊙ CALCULATED POINT         | ⊗ FIRE HYDRANT                |
| ⊕ BENCHMARK                | ⊗ WATERSPRINKER               |
| ⊗ SIGN                     | ⊗ WATER HYDRANT               |
| ⊗ STOP SIGN                | ⊗ TRAFFIC SIGNAL BOX          |
| ⊗ MAILBOX                  | ⊗ TRAFFIC MANHOLE             |
| ⊗ POST                     | ⊗ TRAFFIC SIGNAL              |
| ⊗ MANHOLE LID              | ⊗ GAS VALVE                   |
| ⊗ ROOF DRAIN               | ⊗ GAS METER                   |
| ⊗ BORE HOLE                | ⊗ GAS TEST STATION            |
| ⊗ LIGHT POLE WITH ARM      | ⊗ TELEPHONE PEDESTAL          |
| ⊗ LIGHT POLE               | ⊗ HANDHOLE                    |
| ⊗ GUY POLE                 | ⊗ SANITARY MANHOLE            |
| ⊗ GUYANCHOR                | ⊗ SANITARY CLEAN OUT          |
| ⊗ UTILITY POLE             | ⊗ TELEVISION (CABLE) PEDESTAL |
| ⊗ ELECTRIC PEDESTAL        | ⊗ AREA INLET                  |
| ⊗ ELECTRIC MANHOLE         | ⊗ STORM MANHOLE               |
| ⊗ ELECTRIC METER           | ⊗ STORM SEWER CURB INLET      |
| ⊗ DECIDUOUS TREE           | ⊗ VENT VENT PIPE              |
| ⊗ EVERGREEN TREE           | ⊗ TREE REMOVAL                |
| ⊗ TREE STUMP               |                               |
| ⊗ SHRUB                    |                               |
| ⊗ EVERGREEN SHRUB          |                               |

#### LINE TYPE LEGEND

|     |                           |
|-----|---------------------------|
| --- | LOT LINES / RIGHT-OF-WAY  |
| --- | EASEMENT LINE             |
| --- | SECTION LINE              |
| --- | CENTER LINE OF ROAD       |
| --- | CURB & GUTTER             |
| --- | SANITARY SEWER            |
| --- | SANITARY SEWER FORCE MAIN |
| --- | STORM SEWER SYSTEM        |
| --- | UNDER GROUND CABLE TV     |
| --- | UNDER GROUND ELECTRIC     |
| --- | OVERHEAD ELECTRIC         |
| --- | UNDER GROUND TELEPHONE    |
| --- | FIBER OPTICS              |
| --- | WATER LINE                |
| --- | GAS LINE                  |
| --- | WOODEN FENCE              |
| --- | CHAINLINK FENCE           |
| --- | BARBED WIRE FENCE         |
| --- | RETAINING WALL            |
| --- | CONTOUR MAJOR             |
| --- | CONTOUR MINOR             |
| --- | LANDSCAPE EDGE            |
| --- | TREE DRIP LINE            |
| --- | PROP CONTOUR MAJOR        |
| --- | PROP CONTOUR MINOR        |
| --- | CONSTRUCTION LIMITS       |
| --- | NEW DITCH FLOW            |
| --- | EDGE OF LANE              |
| --- | EDGE OF PAVEMENT          |

#### SURFACING LEGEND

|                     |                  |                    |
|---------------------|------------------|--------------------|
| □ CONCRETE PAVEMENT | □ RIP RAP        | □ SEEDING AREA     |
| □ ASPHALT PAVEMENT  | □ GRAVEL SURFACE | □ PAVEMENT REMOVAL |



LOCATION MAP

0 600'  
SCALE: 1" = 600'

#### ABBREVIATIONS

|      |                                   |
|------|-----------------------------------|
| D/E  | DRAINAGE EASEMENT                 |
| U/E  | UTILITY EASEMENT                  |
| L/E  | LANDSCAPE EASEMENT                |
| R/W  | RIGHT-OF-WAY                      |
| P/E  | PEDESTRIAN EASEMENT               |
| T/E  | TEMPORARY CONSTRUCTION EASEMENT   |
| W/E  | WATERLINE EASEMENT                |
| S/E  | SANITARY SEWER EASEMENT           |
| EX   | EXISTING                          |
| PROP | PROPOSED                          |
| RT   | ALIGN OFFSET RIGHT SIDE           |
| LT   | ALIGN OFFSET LEFT SIDE            |
| FG   | FINISHED GRADE ELEVATION          |
| TC   | TOP OF CURB ELEVATION             |
| TP   | TOP OF PAVEMENT ELEVATION         |
| DIP  | DUCTILE IRON PIPE                 |
| ME   | MATCH EXISTING ELEVATION          |
| TW   | TOP OF WALL ELEVATION             |
| BW   | BOTTOM OF WALL AT GRADE ELEVATION |
| EOA  | EDGE OF ASPHALT PAVEMENT          |
| W    | WATERLINE                         |
| UGG  | UNDER GROUND GAS                  |
| UGT  | UNDER GROUND TELEPHONE            |
| DND  | DO NOT DISTURB                    |

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www.mot1call.com

DESIGN DATA  
DESIGN SPEED: 40 MPH  
CONSTRUCTION BEGINNING: STA 1+40  
ENDING STATION: STA 17+75  
PROJECT LENGTH: 1635 LF

#### SHEET INDEX:

| SHEET NO. | DESCRIPTION                       |
|-----------|-----------------------------------|
| 1         | TITLE SHEET                       |
| 2         | GENERAL NOTES & QUANTITIES        |
| 3         | SURVEY CONTROL                    |
| 4         | TYPICAL SECTION                   |
| 5-8       | TANNER BRIDGE ROAD PLAN & PROFILE |
| 9         | DRIVEWAY PROFILE                  |
| 10-11     | EROSION CONTROL PLAN              |
| 12-13     | TRAFFIC CONTROL PLAN              |
| 14-19     | ROAD CROSS SECTIONS               |
| 20        | SECTION VOLUME TABLE              |
| 1-22      | BRIDGE PLANS                      |

APPROVED BY:  
COLE COUNTY, MISSOURI

*E. Landwehr*  
ERIC LANDWEHR, P.E., PUBLIC WORKS DIRECTOR

8/13/2025  
DATE:

#### UTILITIES CONTACT INFORMATION

1-573-644-9000  
1-573-681-7504  
1-573-635-7011  
1-573-634-6410

THREE RIVERS ELECTRIC  
AMEREN MISSOURI UE (GAS)  
COLE COUNTY PWS D 2  
CITY OF JEFFERSON WASTEWATER UTILITIES

TED NEUNER  
JAKE MARTIN  
JAMIE WINELAND  
ERIC SEAMAN

tneuner@threeverseselectric.com  
jmartin@ameren.com  
pwsd2@socket.net  
eseaman@jeffersoncitymo.gov

**Bartlett & West**  
601 MONROE ST. SUITE 201, JEFFERSON CITY, MO 64501  
CERTIFICATE OF AUTHORITY NO. 003147-ENGINEERING  
www.bartlettandwest.com

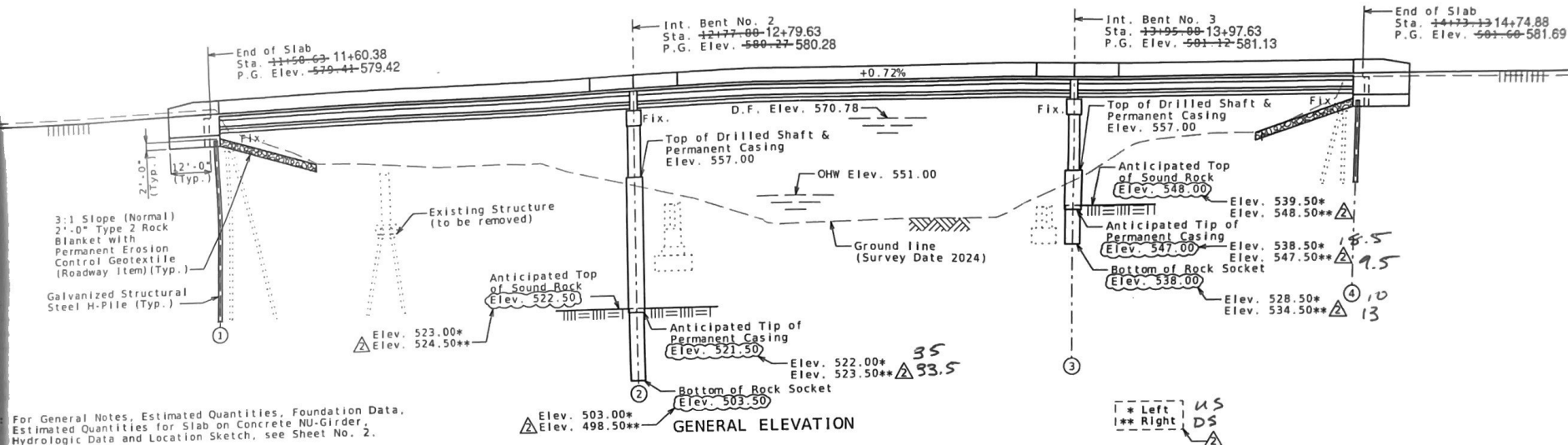
COVER SHEET  
TANNER BRIDGE ROAD - ROAD AND BRIDGE REPLACEMENT  
BRO-R026(025)  
COLE COUNTY, MISSOURI



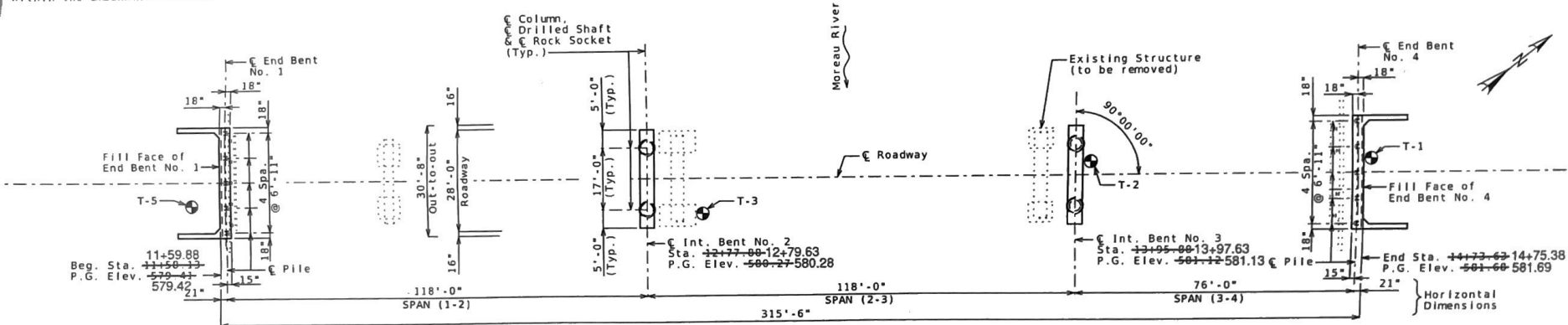
REVISIONS:  
DATE: 8/13/2025  
DESIGNED BY: JDM  
DRAWN BY: JDM  
APPROVED BY: AKJ  
DESIGN PROJ: 15937.410  
DATE: AUGUST 2025  
SHEET NO: 1 of 20

(118'-118'-76') PRESTRESSED CONCRETE NU-GIRDER SPANS  
NO SKEW

SEC/SUR 25 TWP 44N RGE 12W



Roadway fill shall be completed to the final roadway section and up to the elevation of the bottom of the concrete beam within the limits of the structure and for not less than 25 feet in back of the fill face of the end bents before any piles are driven for any bents falling within the embankment section.



## Estimated Quantities

| Item                      | cu. yard | Substr. | Superstr. | Total  |
|---------------------------|----------|---------|-----------|--------|
| Excavation                | 60       |         |           | 60     |
| Approach Slab (Minor)     | 125      |         |           | 125    |
| Shafts (4 ft. 6 in. Dia.) | 87       | 93      | 87        | 267    |
| Shafts (4 ft. 0 in. Dia.) | 60       |         |           | 60     |
| Neoprene Inspection Holes | 4        | 71      |           | 75     |
| Neoprene Inspection Holes | 195      |         |           | 195    |
| Neoprene Inspection Holes | 4        |         |           | 4      |
| Neoprene Inspection Holes | 325      |         |           | 325    |
| Neoprene Inspection Holes | 10       |         |           | 10     |
| Neoprene Inspection Holes | 79.6     |         |           | 79.6   |
| Neoprene Inspection Holes | 679      |         |           | 679    |
| Neoprene Inspection Holes | 1079     |         |           | 1079   |
| Neoprene Inspection Holes | 935      |         |           | 935    |
| Neoprene Inspection Holes | 28,460   |         |           | 28,460 |
| Neoprene Inspection Holes | 10       |         |           | 10     |
| Neoprene Inspection Holes | 36       |         |           | 36     |
| Neoprene Inspection Holes | 2        |         |           | 2      |
| Neoprene Inspection Holes | 18       |         |           | 18     |

## Estimated Quantities for Slab on Concrete NU-Girder

| Item                             | cu. yard | Total  |
|----------------------------------|----------|--------|
| Class B-2 Concrete               | 289      | 289    |
| Reinforcing Steel (Epoxy Coated) | 95,090   | 95,090 |

The table of Estimated Quantities for Slab on Concrete NU-Girder represents the quantities used by the County in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard longitudinally from end of slab to end of slab and transversely from out to out of the bridge slab (or with the horizontal dimensions as shown on the plan of slab). Payment for precast prestressed panels, all concrete and epoxy coated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

## General Notes:

Design Specifications:  
2020 AASHTO LRFD Bridge Design Specifications (9th Ed.)  
2023 AASHTO Guide Specifications for LRFD Seismic Bridge Design (3rd Ed.)  
Seismic Design Category = A (Nonseismic)  
Design earthquake response spectral acceleration coefficient at 1.0 second period,  $S_{D1} = 0.100g$

Design Loading:  
Vehicular = HL-93  
Future Wearing Surface = 35 lb/sf  
Earth = 120 lb/cf  
Equivalent Fluid Pressure = 45 lb/cf (Min.)  
Superstructure: Simply-Supported, Non-Composite for dead load, Continuous Composite for live load.

Design Unit Stresses:  
Class B Concrete (Substructure)  $f'c = 3,000$  psi  
Class B-1 Concrete (Barrier)  $f'c = 4,000$  psi  
Class B-2 Concrete (Drilled Shafts & Rock Sockets)  $f'c = 4,000$  psi  
Class B-2 Concrete (Superstructure, except Prestressed Girders and Barrier)  $f'c = 4,000$  psi  
Reinforcing Steel (ASTM A615 Grade 60)  $f_y = 60,000$  psi  
Structural Steel HP Pile (ASTM A709 Grade 50)  $f_y = 50,000$  psi  
For prestressed girder stresses, see Sheets No. 9 thru 12.

For prestressed panels, see Sheet No. 14.

Neoprene Pads:  
Neoprene bearing pads shall be 60 durometer and shall be in accordance with Sec 716.

Joint Filler:  
All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:  
Minimum clearance to reinforcing steel shall be 1 1/2", unless otherwise shown.

Traffic Handling:  
Roadway to remain closed during construction. Traffic to be maintained on other routes during construction. See roadway plans for traffic control.

Miscellaneous:  
Construction personnel will indicate the type of joint filler option used under the precast panels for this structure:  
☐ Constant Joint Filler  
☐ Variable Joint Filler

Note above the construction joint in the end bents included in the Estimated Quantities for Slab on Concrete

Reinforcement in the end bents is included in the Estimated Quantities for Slab on Concrete NU-Girder.

Reinforcement in the intermediate bent concrete except reinforcement embedded in the beam cap is included in the Estimated Quantities for Slab on Concrete

Note above the intermediate beam cap is included in the Estimated Quantities for Slab on Concrete NU-Girder.

## Foundation Data

| Type              | Design Data                                                                                                                                                                                                                                                                                                                                                              | Bent Number    |             |             |             |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|-------------|-------------|
|                   |                                                                                                                                                                                                                                                                                                                                                                          | 1              | 2           | 3           | 4           |
| Load Bearing Pile | Pile Type and Size                                                                                                                                                                                                                                                                                                                                                       | HP 12x53       | -           | -           | HP 12x53    |
|                   | Number                                                                                                                                                                                                                                                                                                                                                                   | 5              | -           | -           | 5           |
|                   | Approximate Length Per Each                                                                                                                                                                                                                                                                                                                                              | ft 50          | -           | -           | 15          |
|                   | Pile Point Reinforcement                                                                                                                                                                                                                                                                                                                                                 | ea All         | -           | -           | All         |
|                   | Min. Galvanized Penetration                                                                                                                                                                                                                                                                                                                                              | ft Full Length | -           | -           | Full Length |
|                   | Pile Driving Verification Method                                                                                                                                                                                                                                                                                                                                         | DF             | -           | -           | DF          |
|                   | Resistance Factor                                                                                                                                                                                                                                                                                                                                                        | 0.40           | -           | -           | 0.40        |
|                   | Minimum Nominal Axial Compressive Resistance                                                                                                                                                                                                                                                                                                                             | kip 609        | -           | -           | 559.60      |
|                   | Number                                                                                                                                                                                                                                                                                                                                                                   | ea -           | 2           | 2           | -           |
|                   | Foundation Material                                                                                                                                                                                                                                                                                                                                                      | -              | Strong Rock | Strong Rock | -           |
| Rock Socket       | Elevation Range                                                                                                                                                                                                                                                                                                                                                          | ft -           | 522.5-516.5 | 548-531     | -           |
|                   | Minimum Nominal Axial Compressive Resistance (Side Resistance)                                                                                                                                                                                                                                                                                                           | ksf -          | 13.9        | 13.4        | 29.8        |
|                   | Resistance Factor (Side Resistance)                                                                                                                                                                                                                                                                                                                                      | -              | 0.5         | 0.45        | -           |
|                   | Foundation Material                                                                                                                                                                                                                                                                                                                                                      | -              | Strong Rock | Strong Rock | -           |
|                   | Elevation Range                                                                                                                                                                                                                                                                                                                                                          | ft -           | 516.5-497.5 | 531-523.5   | -           |
|                   | Minimum Nominal Axial Compressive Resistance (Side Resistance)                                                                                                                                                                                                                                                                                                           | ksf -          | 15.8        | 13.3        | 28.3        |
|                   | Resistance Factor (Side Resistance)                                                                                                                                                                                                                                                                                                                                      | -              | 0.4         | 0.46        | -           |
|                   | Minimum Nominal Axial Compressive Resistance (Tip Resistance)                                                                                                                                                                                                                                                                                                            | ksf -          | 0           | 0           | -           |
|                   | Resistance Factor (Tip Resistance)                                                                                                                                                                                                                                                                                                                                       | -              | 0.2         | 0.3         | -           |
|                   | Note: The table of Rock Socket values represent the design values used in preparing the plan details for the rock socket foundations. Foundation Inspection Holes cored and logged by the contractor will be utilized by the engineer to confirm or update the design values. See Bridge Job Special Provision "Foundation Inspection Holes" for additional information. |                |             |             |             |

DF = FHWA-modified Gates Dynamic Pile Formula

Load Bearing Pile:  
Minimum Nominal Axial Compressive Resistance = Maximum Factored Loads/Resistance Factor

All piles shall be galvanized down to the minimum galvanized penetration (elevation).

Pile point reinforcement need not be galvanized. Shop drawings will not be required for pile point reinforcement.

HP piles are anticipated to be driven to refusal on rock. Review all borings for depth of rock and restrict driving as appropriate to comply with hard rock driving criteria in accordance with Sec 702. When pile refusal on rock occurs, as approved by the engineer, the minimum nominal axial compressive resistance is verified and no additional pile driving verification method is required.

Rock Socket (Drilled Shafts):  
Minimum Nominal Axial Compressive Resistance (Side Resistance + Tip Resistance) = Maximum Factored Loads/Resistance Factors

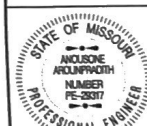
The tip of casing shall not extend into the rock socket elevation range reported in the Foundation Data table without approval by the engineer.

Note: This drawing is not to scale. Follow dimensions.

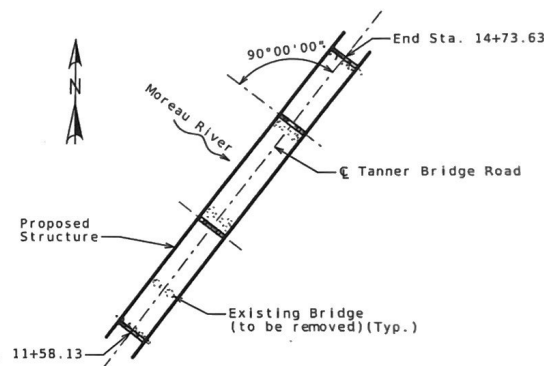
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GENERAL NOTES AND QUANTITIES

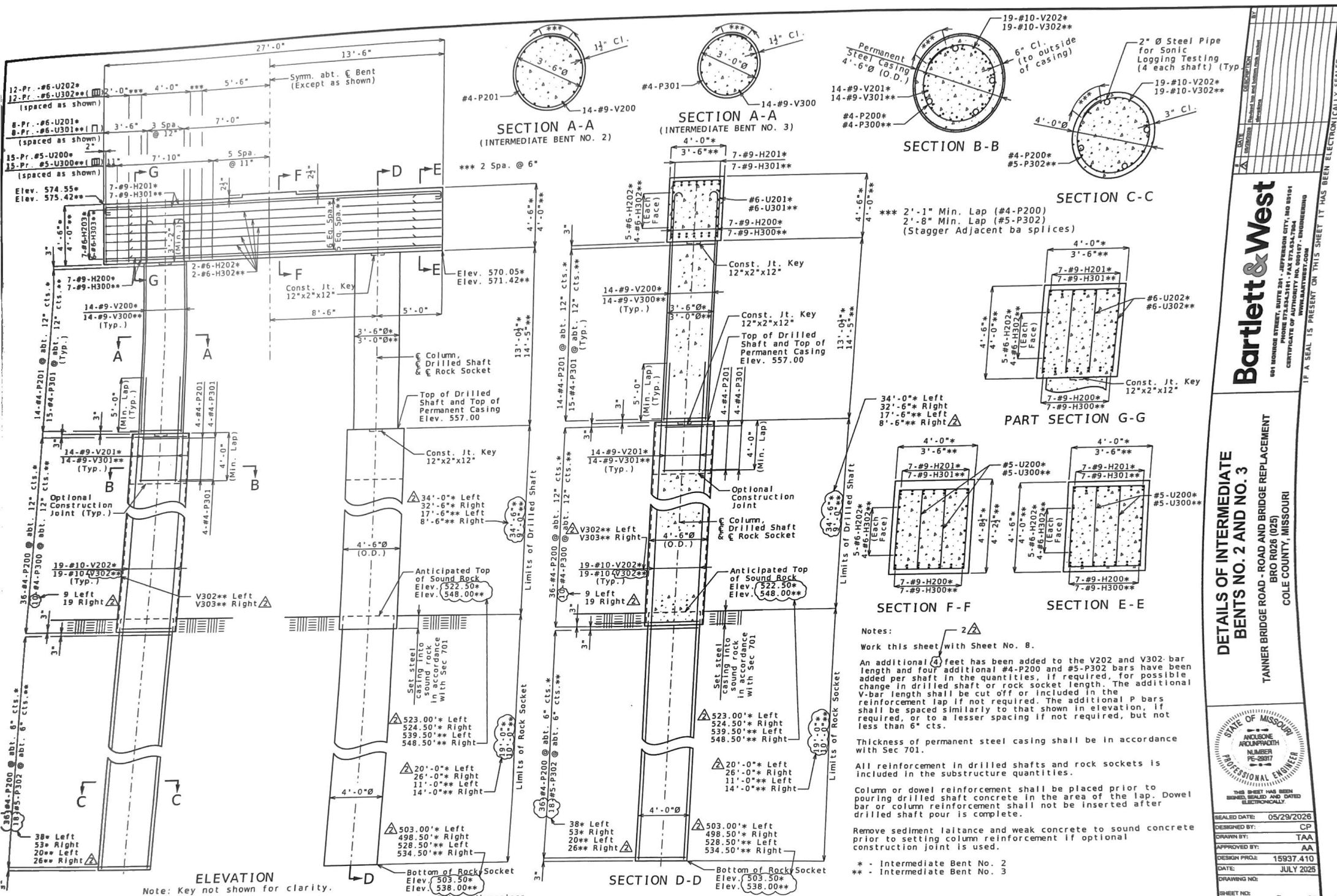
TANNER BRIDGE ROAD - ROAD AND BRIDGE REPLACEMENT  
BRO R026 (025)  
COLE COUNTY, MISSOURI



SEAL DATE: 05/29/2026  
DESIGNED BY: CP  
DRAWN BY: TAA  
APPROVED BY: AA  
DESIGN PROJ: 15937.410  
DATE: JULY 2025  
DRAWING NO:  
SHEET NO: 2 of 26



LOCATION SKETCH



**ELEVATION**  
 Note: Key not shown for clarity.  
 Note: This drawing is not to scale. Follow dimensions.

**Notes:**

Work this sheet with Sheet No. 8.

An additional 4 feet has been added to the V202 and V302 bar length and four additional #4-P200 and #5-P302 bars have been added per shaft in the quantities, if required, for possible change in drilled shaft or rock socket length. The additional V-bar length shall be cut off or included in the reinforcement lap if not required. The additional P bars shall be spaced similarly to that shown in elevation, if required, or to a lesser spacing if not required, but not less than 6" cts.

Thickness of permanent steel casing shall be in accordance with Sec 701.

All reinforcement in drilled shafts and rock sockets is included in the substructure quantities.

Column or dowel reinforcement shall be placed prior to pouring drilled shaft concrete in the area of the lap. Dowel bar or column reinforcement shall not be inserted after drilled shaft pour is complete.

Remove sediment ballance and weak concrete to sound concrete prior to setting column reinforcement if optional construction joint is used.

\* - Intermediate Bent No. 2  
 \*\* - Intermediate Bent No. 3

# Bartlett & West

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**DETAILS OF INTERMEDIATE BENTS NO. 2 AND NO. 3**

TANNER BRIDGE ROAD - ROAD AND BRIDGE REPLACEMENT

BRO 0026 (025)

COLE COUNTY, MISSOURI

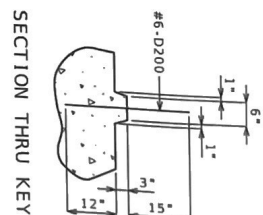
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

STATE OF MISSOURI  
 ANTHONY ARONPROBATH  
 NUMBER 76-0087  
 PROFESSIONAL ENGINEER

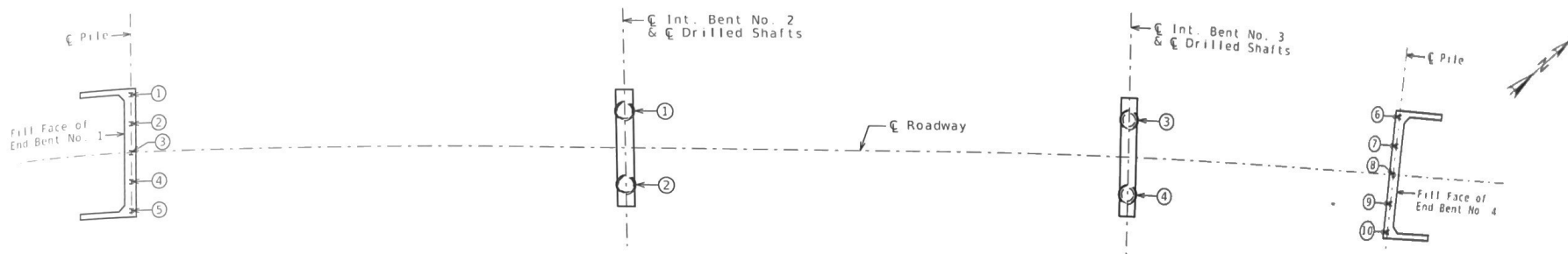
THIS SHEET HAS BEEN  
 E-SEALING SEALED AND DATED  
 ELECTRONICALLY

SEALED DATE: 05/29/2026  
 DESIGNED BY: CP  
 DRAWN BY: TAA  
 APPROVED BY: AA  
 DESIGN PROJ: 15937.410  
 DATE: JULY 2025  
 SHEET NO: 7 of 26





SHEET NO: 8 of 26



PART PLAN SHOWING NUMBERING FOR RECORDING AS-BUILT PILE AND DRILLED SHAFT DATA

As-Built Pile Data

| Pile No.       | Length in Place (ft) | Computed Nominal Axial Compressive Resistance (kips) | Remarks |
|----------------|----------------------|------------------------------------------------------|---------|
| End Bent No. 1 |                      |                                                      |         |
| 1              |                      |                                                      |         |
| 2              |                      |                                                      |         |
| 3              |                      |                                                      |         |
| 4              |                      |                                                      |         |
| 5              |                      |                                                      |         |
| End Bent No. 4 |                      |                                                      |         |
| 6              | 657                  | 1/2" in 10 blows, 3.5 ft stroke, 20 ft + 2 ft        | 21' 6"  |
| 7              | 640                  | 1/4" in 10 blows, 3 ft stroke, 20 ft + 2 ft          | 21' 11" |
| 8              | 652                  | 3/8" in 10 blows, 3.1 ft stroke, 20 ft + 2 ft        | 23' 6"  |
| 9              | 522                  | 1/2" in 10 blows, 3.25 ft stroke, 20 ft + 2 ft       | 24' 3"  |
| 10             | 640                  | 1/4" in 10 blows, 3 ft stroke, 20 ft + 2 ft          | 23' 7"  |

As-Built Drilled Shaft Data

| As-Built Drilled Shaft Data |                           |                       |                               |                 |
|-----------------------------|---------------------------|-----------------------|-------------------------------|-----------------|
| Shaft No.                   | Top of Sound Rock (Elev.) | Tip of Casing (Elev.) | Bottom of Rock Socket (Elev.) | Remarks         |
|                             |                           |                       |                               | Int. Bent No. 2 |
| 1                           |                           |                       |                               |                 |
| 2                           |                           |                       |                               |                 |
|                             |                           |                       |                               | Int. Bent No. 3 |
| 3                           |                           |                       |                               |                 |
| 4                           |                           |                       |                               |                 |
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Note:  
Indicate in remarks column:  
A. Pile type and grade  
B. Batter  
C. Driven to practical refusal  
This sheet to be completed by County construction personnel.

**Bartlett & West**  
ENGINEERS, ARCHITECTS, SURVEYORS  
1001 E. 12th St., St. Louis, Mo. 63102  
BRO. R076 (075)  
COLE COUNTY, MISSOURI

**AS-BUILT PILE DATA**  
**ROAD AND BRIDGE REPLACEMENT**  
**TANNER BRIDGE ROAD - BRO R076 (075)**  
**COLE COUNTY, MISSOURI**

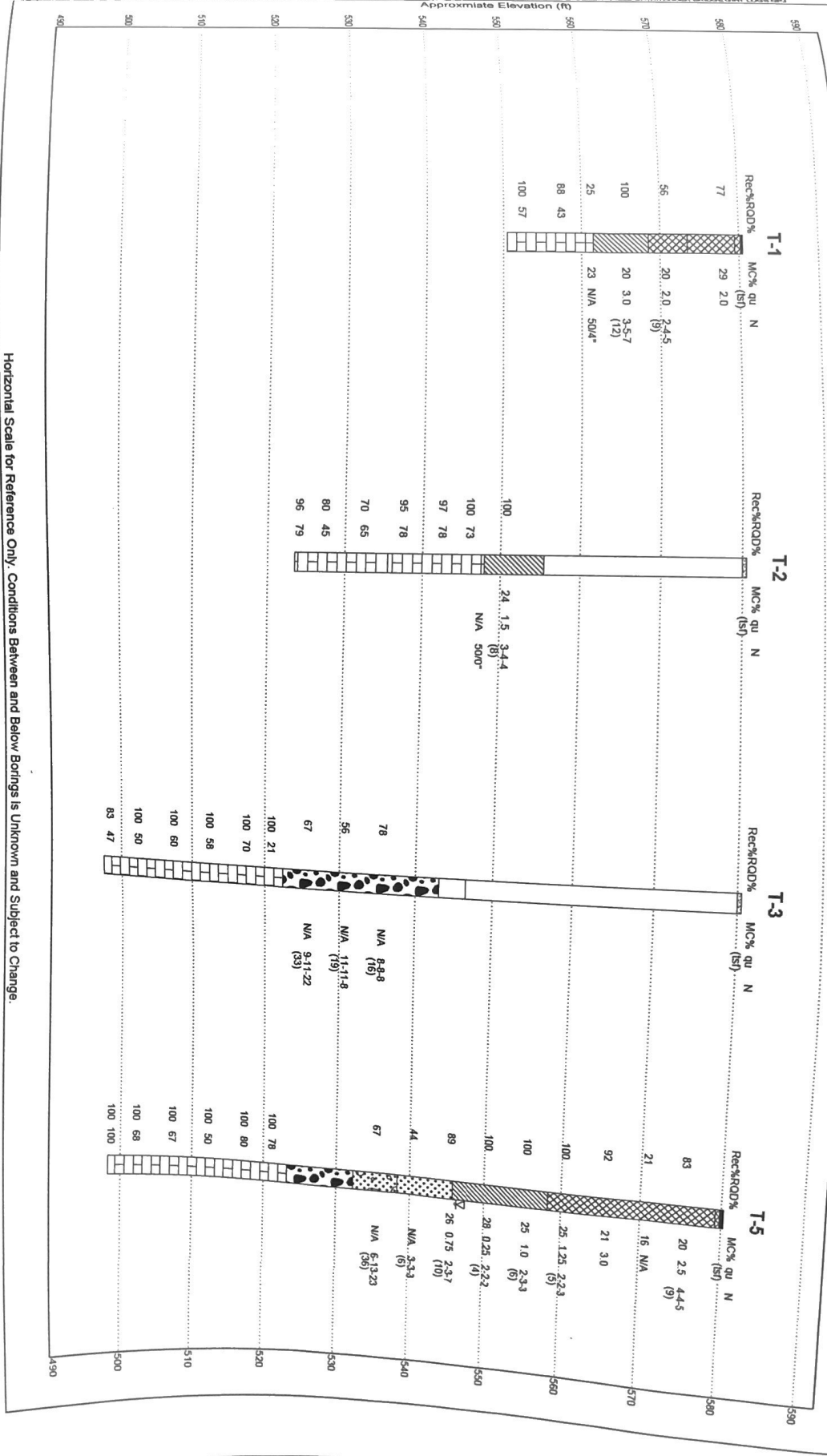
STATE OF MISSOURI  
REGISTERED PROFESSIONAL ENGINEER  
No. 1001 E. 12th St., St. Louis, Mo. 63102  
BRO. R076 (075)  
COLE COUNTY, MISSOURI

**M**  
Merrima Professional Services  
CLIENT: Bartlett and West  
PROJECT NUMBER: MCG2010

PROJECT NAME: Tanner Bridge Road Bridge Replacement  
PROJECT LOCATION: Cole County, Missouri

# SUBSURFACE DIAGRAM

- Asphalt
- Limestone
- USCS Well-graded Sand
- Fill (made ground)
- Concrete
- USCS Well-graded Gravelly Sand
- USCS Low Plasticity Clay
- USCS Well-graded Gravel



Horizontal Scale for Reference Only. Conditions Between and Below Borings is Unknown and Subject to Change.

Note: For locations of borings, see Sheet No. 1.  
Note: This drawing is not to scale. Follow dimensions.

## BORING DATA

TANNER BRIDGE ROAD - ROAD AND BRIDGE REPLACEMENT  
BRO R026 (025)  
COLE COUNTY, MISSOURI

**Bartlett & West**  
601 MONROE STREET, SUITE 201 - JEFFERSON CITY, MO 65101  
PHONE 573.634.2181 - FAX 573.634.7804  
CERTIFICATE OF AUTHORITY NO. 000187 - ENGINEERING  
WWW.BARTLETTWEST.COM

| DATE | DESCRIPTION |
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STATE OF MISSOURI  
Professional Engineer  
No. 10000  
Name: [Redacted]  
Exp. Date: [Redacted]

DESIGNED BY: C.P.  
DRAWN BY: TAA  
CHECKED BY: AA  
DATE: JULY 2023  
DRAWING NO. 206 of 206

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED