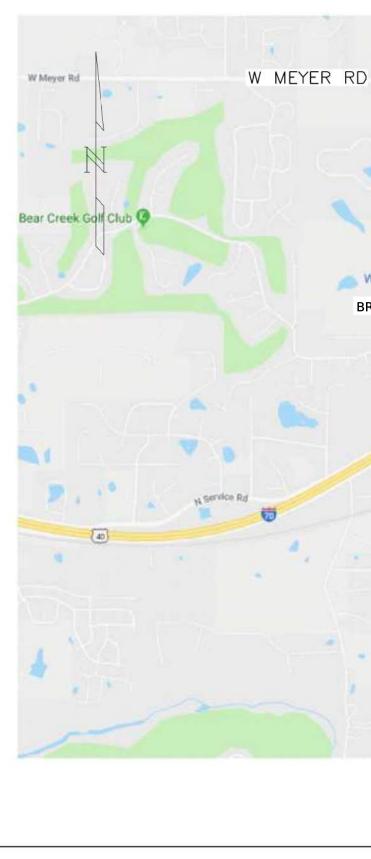
# MISSOURI HIGHWAYS AND TRANSPORTATION COMISSION PLANS FOR PROPOSED NSRR SHOOFLY BRIDGE AT MP S-45.25 OVER I - 70 WENTZVILLE, MO



## GENERAL INFORMATION Owner: MR. D.S. Starling

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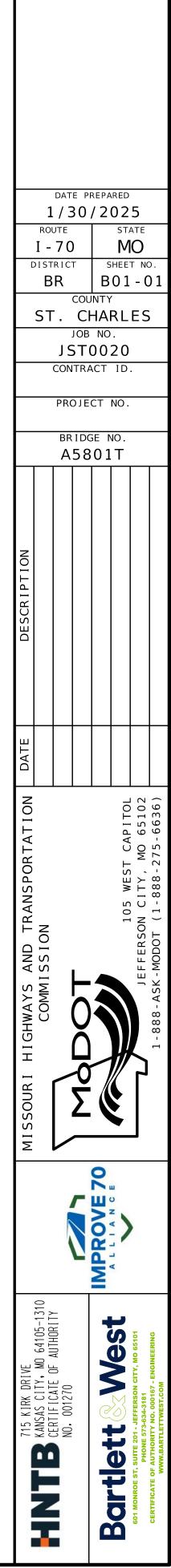
THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

Detailed January 2025 Checked January 2025

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

# NOT FOR CONSTRUCTION WENTZVILLE PKWY stentzville Pkwy Q Holt High School — Walmart Supercente 0 BRIDGE AT MP S-45.25 OVER I-70 AAR/DOT#483525B E.Pitman Ave WENTZVILLE ORFOLK SOUTHERN Ridge Park Z LOCATION MAP





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## GENERAL NOTES

## CONSTRUCTION SPECIFICATIONS

Provide materials and perform work in accordance with the following. Where discrepancies exist between these requirements, the more stringent shall govern:

- NSRR-PPM: Norfolk Southern Railway Public Projects Manual, 2022, including appendices
- AREMA: American Railway Engineering and Maintenanceof-Way Association, 2023
- MODOT CMS: July 2024 Missouri Standard Specifications for Highway Construction
- Norfolk Southern Railway Standard Specifications for Materials and Construction, current edition
- Norfolk Southern Railway Quality Assurance Specifications for Ties and Timber

NORFOLK SOUTHERN RAILROAD COORDINATION AND MAINTENANCE-OF-

WAY The construction program will require close coordination and cooperation with Norfolk Southern personnel for all operations that involve track work and rail service. The

time of specific track closing, openings, switching and other required rail, tie and ballast work in all cases shall be also subject to Norfolk Southern approval.

All work to be performed on, over, under, or adjacent to the All utility installations or relocations that are required railroad right-of-way shall comply with Norfolk Southern Railway Company ("Railroad", "NSR", or "NS") Public Projects Manual (Appendix E, Special Provisions for the Protection of Railway Interests, and Appendix H1, Overhead Grade Separation Design Criteria). When in conflict with other project specifications the most stringent one shall apply.

The contractor shall not commence any work on railroad rightof-way until they have complied with the conditions presented on the NS Public Projects Manual (Appendix E, Special Provisions for the Protection of Railway Interests).

The contractor shall so arrange and conduct work so that there will be no interference with railroad operations. Whenever work is liable to affect the operations or safety of trains, the methods of doing such work shall be submitted to the railroad engineer for approval, but such approval shall not relieve the contractor from any liability.

All proposed submittals required either by MODOT CMS or the NSRR-PPM shall be submitted to NSRR for review and approval.

All work for the ballast, rails, ties and incidental track metal work for the tracks will be furnished and placed by Norfolk Southern.

The contractor shall maintain a construction clearance of 10 feet horizontally (for elements below top of rail) from the centerline of tracks and 22 feet vertically from a point of level with the top of the higher rail at all times. Clearance of 14 feet horizontally shall be provided to any temporary works installed above the top of rail, except as indicated by these plans or approved by NSRR.

The designated Norfolk Southern Railroad contact for this project is as follows: Mr. D.S. Starling

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For projects requiring more than 30 consecutive days of flagging, contractor shall provide the flagman a small work area with a desk/counter and chair within the field/site trailer, including the use of bathroom facilities, where the flagman can check in/out with the project, as well as to the flagman's home terminal. The work area should provide access to two (2) electrical outlets for recharging radio(s), and a laptop computer; and have the ability to print off needed documentation and orders as neeeded at the field/site trailer. This should aid in maximizing the flagman's time and efficiency on the project.

NORFOLK SOUTHERN RAILROAD COORDINATION AND MAINTENANCE-OF-WAY (CONTINUED)

The railroad will be provided as-built drawings showing the actual clearances as constructed. depth, size, and location of all foundation components shall be shown on the drawings (see NS Public Projects Manual, appendix H1, section 8a).

"ONE CALL" Services do not locate buried railroad signal and communications lines. The contractor shall contact the railroad's representative 2 days in advance of work at those places where excavation, pile driving, or heavy loads may damage the railroad's underground facilities. Upon request from the contractor or sponsor, railroad forces will locate and paint mark or flag the railroad's underground facilities, the contractor shall avoid excavation or other disturbance of these facilities. If disturbance or excavation is required near a buried railroad facility, the contractor shall coordinate with the railroad to have the facility potholed manually with careful hand excavation. The facility shall be protected by the contractor during the course of the disturbance under the supervision and direction of the railroad's representative. (see NS Public Projects Manual, appendix e, section 3.d).

in conjunction with this project can be installed or relocated as part of the project provided the construction is performed by the project contractor or project contractor's sub-contractor. However, the utility must submit an application for the installation or relocation to Railpros or appropriate handling for license agreement and applicable fees. For utility applications go to: www.nscorp.com / about ns real estate / learn about our services / wire / pipeline and fiber optics projects. Note: license agreement must be executed prior to utility being installed or relocated.

DIMENSIONS AND BOUNDARIES

All dimensions shown are horizontal unless notes otherwise. Superstructure dimensions shown are given at a temperature of 65° F.

## EXCAVATION

The contractor is responsible for the stability of all excavated slopes. Direct surface runoff away from the excavation. Groundwater levels may fluctuate seasonally as a function of precipitation and other hydrological factors. Therefore, there may be considerable change in the water table or the presence of water where not previously encountered. Perform all excavations in accordance with OSHA Standards for shoring. Excavation and shoring shown in these plans assume an OSHA Type B soil (to be confirmed by the contractor).

Excavate according to construction sequences drawings and notes. Do not over excavate.

DESIGN SPECIFICATIONS

design standards:

- AREMA, chapters 8, 9 & 15
- Design Criteria"
- Reinforced concrete pier design as per
- allowable stress design. - Design live load:
- design speed of 60 mph freight.
- Live load distribution:

The design was completed in accordance with the following

- NSRR-PPM Appendix H 2 "Underpass Grade Seperation

AREMA, Chapter 8, table 8-2-5, load factor design. - Structural steel design as per AREMA chapter 15,

Cooper E-80 including alternate live load on 4 axles. to steel superstructure members per AREMA 15-1.3.4

- Impact load: rolling equipment without hammer blow. Steel superstructure per AREMA chapter 15-1.3.5 - Fatigue analysis is based on AREMA 15-1.3.13.

DESIGN DATA

### CONCRETE

Substructure concrete shall obtain a 28 day compressive strength of 4000 psi (minimum) (abutments piers, footings and foundations)

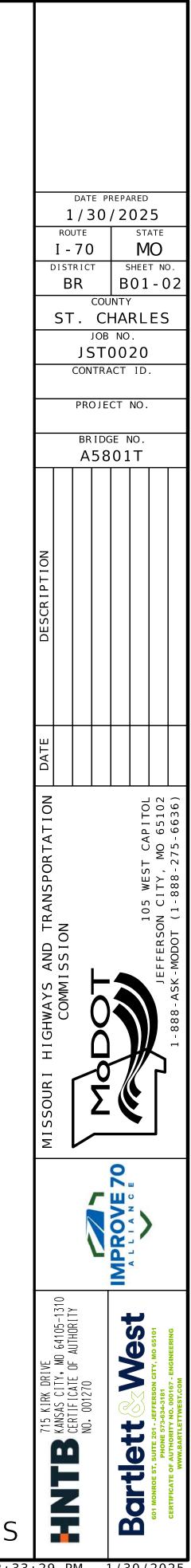
Chamfer all exposed concrete edges and corners 3/4" except as noted.

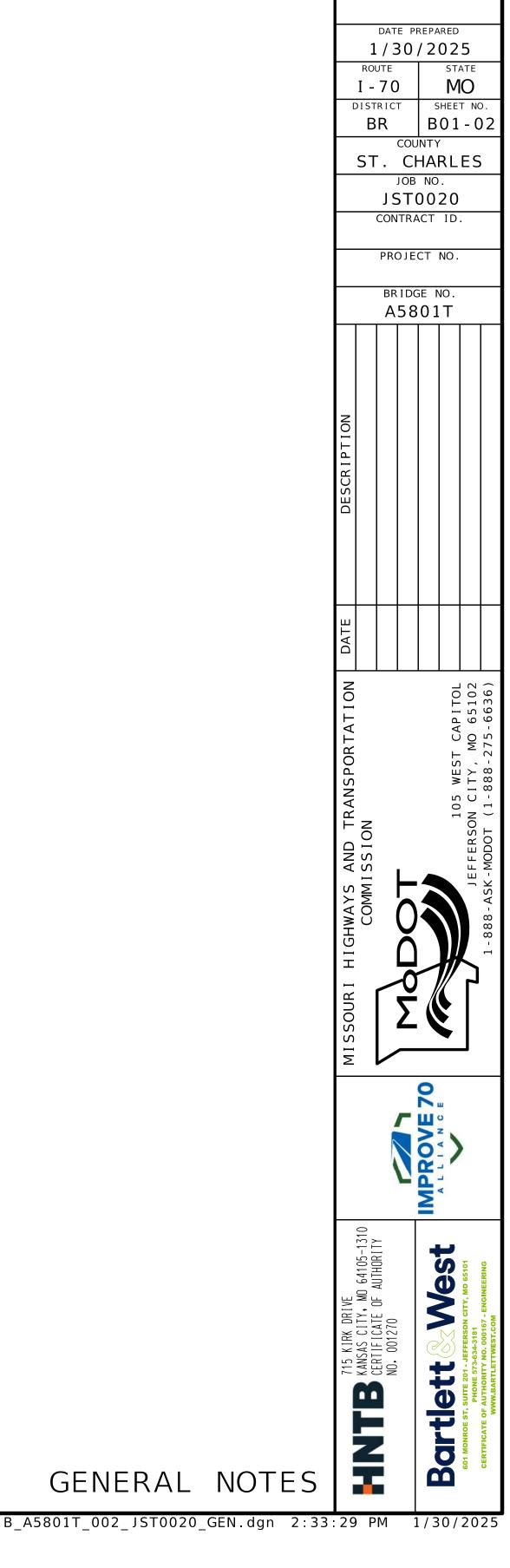
Reinforcing steel shall be ASTM A615, grade 60, except as noted. Fabrication to be in accordance with AREMA, chapter 8.

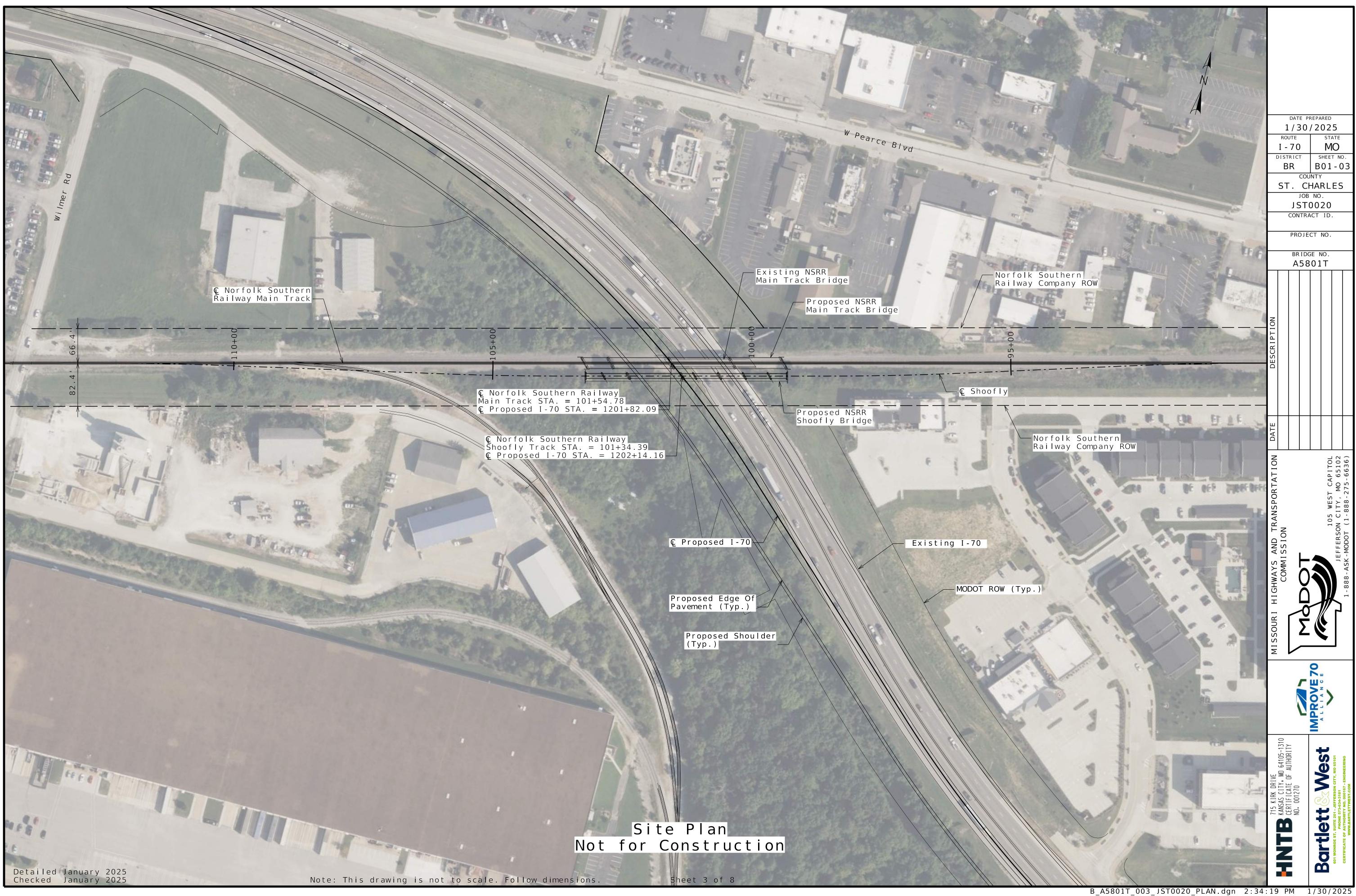
All construction joints shown on these plans shall be required unless shown as optional. Construction joints permitted except as shown on the plans, or where written approval from the engineer has been obtained.

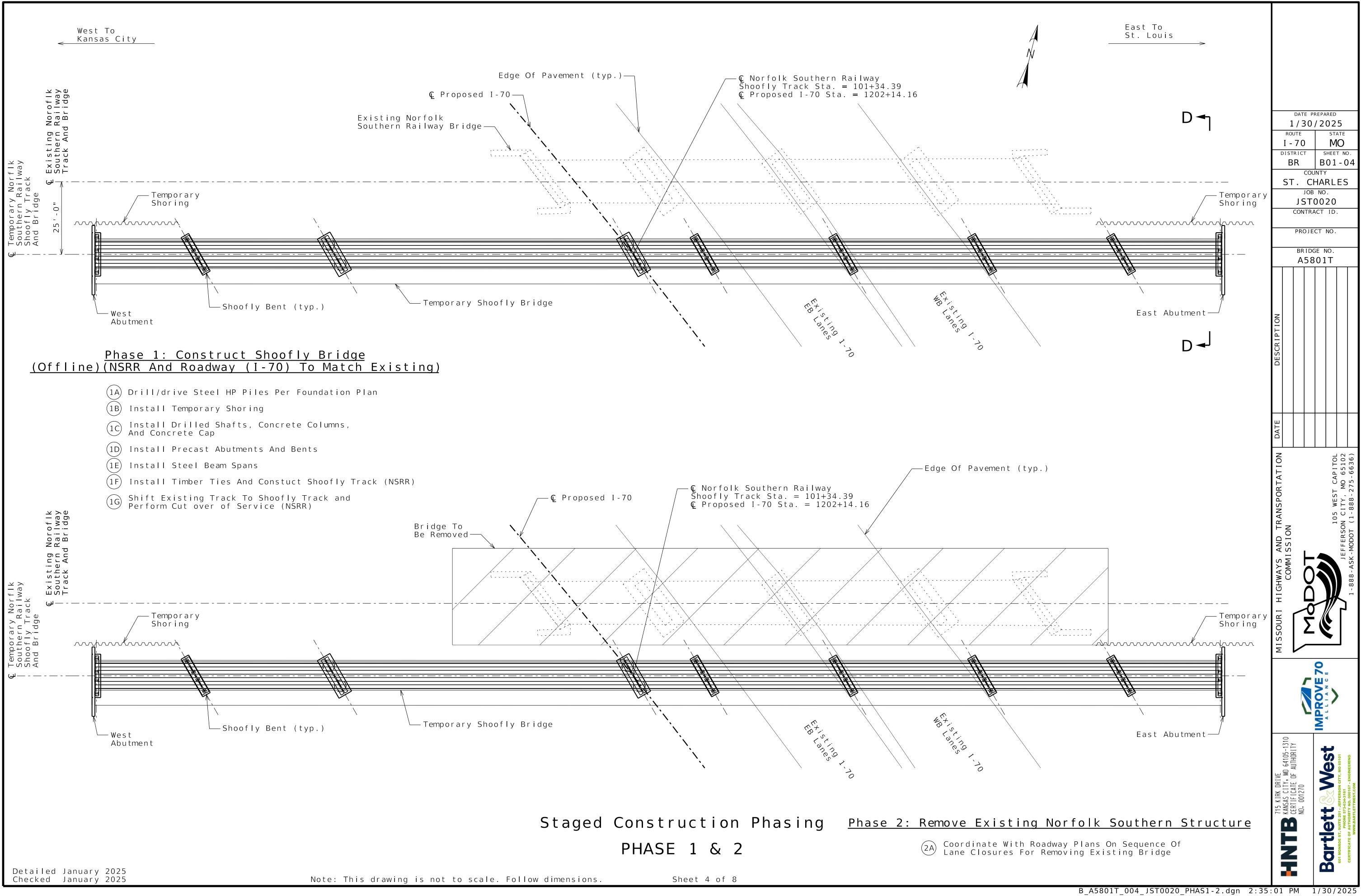
STRUCTURAL STEEL

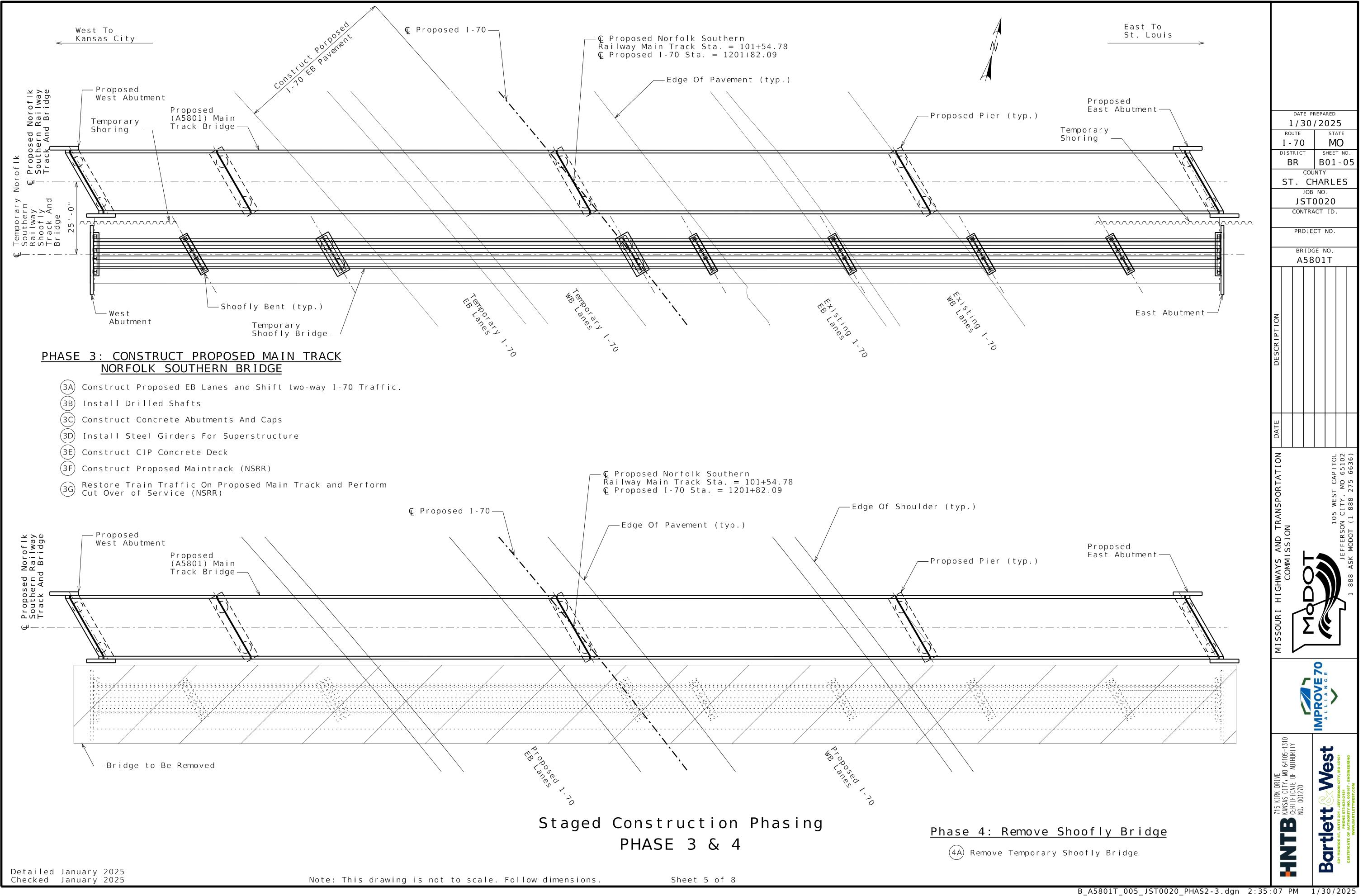
Superstructure steel shall be astm A709, grade 50W unless otherwise noted. All structural bolts shall be astm F3125 grade A325. All washers shall be astm F436 and all nuts shall be heavy hex astm A563. Anchor rods shall be ASTM F1554 grade.

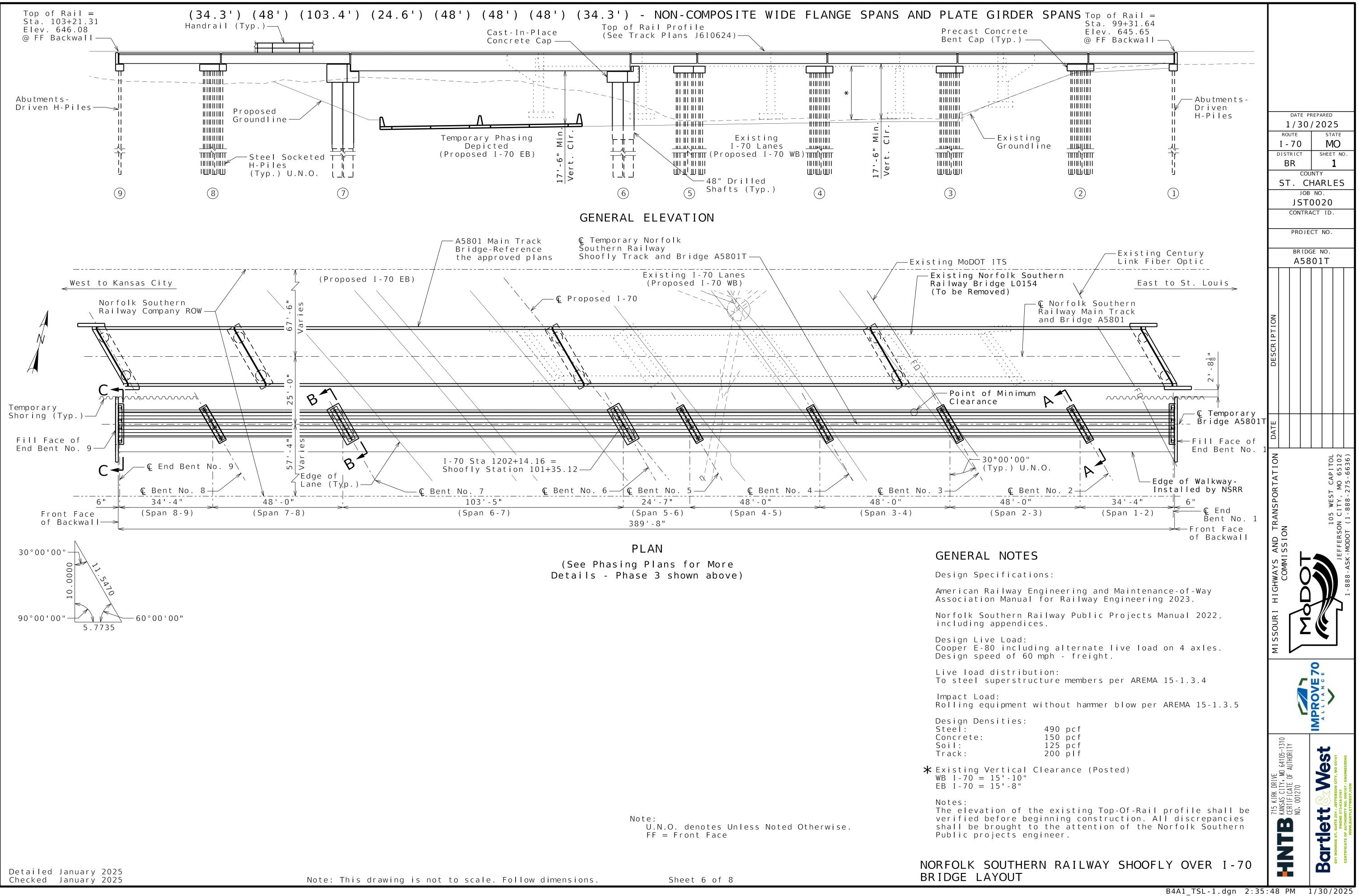












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