

PART 1 - GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

- A. The provisions and intent of the Contract, including the General Conditions and General Requirements, apply to this work as if specified in this section.

1.02 DESCRIPTION OF WORK

- A. This Section specifies the material requirements and performance criteria for railroad track materials to be furnished by the Contractor in accordance with the Contract Drawings.
- B. Except as modified herein, materials shall be designed, manufactured, tested, assembled, inspected, handled and shipped in accordance with the current edition of the American Railway Engineering and Maintenance-of-Way Association (AREMA) Portfolio of Trackwork Plans, and the AREMA Manual of Railway Engineering.
- C. The contract includes the requirements for providing railroad track materials including rail, ties and other track materials.
- D. See Section 34 11 23 “Special Trackwork” for additional special trackwork specifications.

1.03 REFERENCED STANDARDS

- A. Comply with all applicable local, State and Federal codes provisions of most recent edition, including all addenda, of following codes, specifications, standards, and recommended practices, except as otherwise indicated:
 - 1. AREMA MANUAL – American Railway Engineering and Maintenance-of-Way Association, Manual for Railway Engineering
 - 2. AREMA PORTFOLIO – American Railway Engineering and Maintenance-of-Way Association, Portfolio of Trackwork Plans
 - 3. FRA-DOT – Federal Railroad Administration, Department of Transportation

1.04 SUBMITTALS

- A. Certification of Rail
 - 1. Contractor to provide Certifications of compliance from suppliers or manufacturers that rail delivered to the site is in conformance with AREMA Specifications Chapter 4, Part 1 Design of Rail and Part 2 Manufacture of Rail.
 - 2. The chemical analysis of the rails listed by heat number, and the specified chemical analysis elements.
 - 3. The Brinell hardness of the rails shipped by heat numbers.
- B. Gage Rods: Provide catalog cut sheet.
- C. Bill of Materials: Submit a complete bill of materials for all supplied railroad materials, including but not limited to, all rail and rods.

1.05 QUALITY ASSURANCE

- A. Testing and inspection shall conform to the AREMA Manual, AREMA Portfolio and these specifications.
- B. The Contractor shall own a copy of the American Railway Engineering and Maintenance-of-Way Association - Manual for Railway Engineering (AREMA); current edition, Chapters 1, 4, 5, and 30.
- C. The Contractor shall notify the Engineer five (5) business days in advance of all material delivery. Upon delivery, any material identified as unsatisfactory, at the discretion of the Engineer, will be loaded back on to the delivery truck and sent back to the Contractor's plant at the Contractor's expense.

PART 2 - PRODUCTS

2.01 GENERAL

- A. Furnish all track materials and products as shown and quantified on the contract documents. Materials shall conform in all regards to the AREMA Manual of Railway Engineering, except as otherwise noted herein and on the contract drawings.
- B. Rail ~~and other track material~~ shall be new, fabricated in the United States or Canada. Rail shall be 115RE as shown on the Drawings. There is not a Buy America contract requirement. All other track material shall be new and suitable for 115RE rail, but is excluded from the domestic and Canada only fabrication requirement, except as specified in Section 34 11 23.

2.02 RAIL

- A. The Contractor shall provide new rail, except as allowed in the bid alternate, see Offer Sheet. All rail shall be 115 RE, as shown on the Drawings, meeting the requirements of AREMA Manual, Chapter 4, Part 2, Specification Section "Specifications for Steel Rails". The Contractor shall provide high strength head hardened rail. High strength head hardened rail shall have a minimum surface Brinell Hardness number of 370.
- B. The rail shall be 80 feet lengths.
- C. Bolt holes within the rail are not acceptable, except at the ends of the rail at locations where joint bars are used.
- D. Rail provided under track pavement shall not be drilled. All other rail shall be end drilled according to the Contract Drawings.
- E. The rail section shall conform to the dimensions shown in AREMA Manual, Chapter 4, Part 1 for 115 RE.

2.02 SECOND HAND (RELAY) RAIL

- A. The Contractor shall provide a bid alternate unit price for 115 RE second hand (relay) rail meeting the following requirements:
 - 1. Relay rail shall conform to AREMA specifications for Class 1 relay rail or better.
 - 2. Relay rail shall be appropriately marked so that it is easily distinguished from new rail.
 - 3. Relay rail shall be 39 feet or 80 feet lengths with a maximum of 10% shorts.

2.03 TIE PLATES

See Section 34 11 32 “Timber Ties”

2.04 ELASTIC RAIL CLIPS

See Section 34 11 32 “Timber Ties”

2.05 SCREW SPIKES

See Section 34 11 32 “Timber Ties”

2.06 GAGE RODS

- A. Gage rods shall be manufactured to fit the specified rail, shall be manufactured from 1-1/4-inch diameter steel bar with double adjustable clamps at both ends to grip both sides of the rail, and shall be set for standard gage track.

PART 3 – EXECUTION

NOT USED

END OF SECTION