PART 1  GENERAL

1.01 SYSTEM DESCRIPTION
   A. Design and fabrication of Frame Type Bleacher

1.02 QUALITY ASSURANCE
   A. Manufacturer Qualifications: Manufacturer must have ten years of experience in the manufacturer of bleachers and grandstands; welders must be AWS certified.
   B. Source Quality Control: Mill Test Certification.

1.03 BUILDING CODES
   A. Bleacher system designed to comply with International Building Code 2015 and associated supplement ICC 300

1.04 WARRANTY
Bleachers International warrants its frame type bleacher to be free from defects in material and workmanship in the course of manufacturing and installation for a period of (5) years beginning at day of substantial completion for projects installed by Bleachers International and beginning at Date of Initial Delivery of Product for projects installed by others. In addition, all seat and foot plank extrusions shall be covered by a five (5) year warranty against loss of structural strength of finish deterioration due specifically to exposure to varying weather conditions or ultra-violet rays. This warranty excludes any other defects resulting from abnormal use in service, accidental or intentional damage or any occurrences beyond Bleachers International’s control and renders above warranties null and void. Discoloration of mill finish aluminum due to galvanic reaction is not covered by warranty.

This warranty excludes defects resulting from abnormal use, accidental or intentional damage, or any occurrences beyond Bleachers International control. Any exposed mill finish aluminum surface will become discolored due to oxidation, which is a natural phenomenon.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURER
   A. Bleachers International, 1550 W Evans Ave, Unit A, Denver CO 80223 U.S.A., (303) 646-1038 Fax: (303) 646-0599
   B. Other manufacturers seeking to be approved must submit samples and product literature on frame-type design to the Owner for review and receive approval from Owner via addendum ten days prior to bid date.

2.02 ANGLE FRAME BLEACHERS
   A. Product Descriptions
      1. Non-Elevated Bleachers:
         a. Rise and Depth Dimensions: Standard Vertical rise and Standard horizontal depth per row: 8 inches x 24 inches.
         b. Seat is 17 inches above its respective tread.
         c. Framework: Prefabricated frames are spaced at maximum of 6’ spacing and connected by cross braces.
            • Standard: aluminum angle of sizes as determined by structural engineer
            • Optional: aluminum tubing of sizes as determined by structural engineer
Bleachers International

1550 W Evans Ave, Unit A, Denver CO 80223 / Phone (303) 646-1038 / Fax (303) 646-0599
Email: sales@getseating.com  website: www.getseating.com

d. Seats: Nominal 2 x 10” anodized aluminum plank with 2 x 10” anodized end caps. **Optional:** Nominal 2” x 12” anodized aluminum plank

e. Footboards:
   (1) Semi-closed decking arrangement: Two nominal 2” x 10” mill aluminum planks with 2” x 10” mill finish end caps.
   (2) **OPTION:** Closed interlock decking arrangement – 24”, 26.5”, 30” or 36” horizontal depth

f. Risers:
   (1) Semi-closed decking arrangement: One Nominal 1” x 6-1/2” mill finished riser planks at all rows. Two 1” x 6-1/2” mill finish riser planks on last row. **Optional:** anodized or powder coated finish riser planks
   (2) **OPTION:** Closed interlock decking arrangement - 8”, 12”, 14”, or 15” vertical rise

g. Backrests (OPTIONAL): 1” x 7” anodized aluminum plank

h. Guardrails: Three lines of aluminum pipe with chain link fence 42 inches above seat across the back and on both sides of the bleacher. The front guardrail is 42” high above the walkway with a 2 line aluminum pipe and toe board without fencing when the walkway is 30” or less above the ground. The front guardrail is 42 inches above the walkway with a 3 line aluminum pipe and chain link fence when the walkway is greater than 30” above the ground. **Optional:** Vertical Picket Fencing in lieu of chain link

i. Aisle: aisle to be provided with 34” high handrail and intermediate rail at approximately 22” above tread. Handrails with rounded ends are discontinuous to allow access to sitting through a 24” wide space. Aluminum tread nosing of contrasting color on aisle steps.

2. **Wheelchair Area (If required):**
   a. Area is to be 5'6” wide for two wheelchairs (33” each) and 36” for a single wheelchair.

B. **Materials/Finishes**

1. Framework – Aluminum, Structural fabrication with aluminum alloy 6061-T6, mill finish.

   **OR**

   Galvanized Steel: Structural fabrication with ASTM-A529 steel. Shop connections are seal welded. All steel and fabrication shall conform to AISC. After fabrication, all steel is hot-dipped galvanized to ASTM-A123 specification

2. Extruded Aluminum
   a. Seat Planks, Step Risers, and Backrests: Extruded aluminum alloy 6063-T6, clear anodized 204R1, AA-M10C22A31, Class II, and a wall thickness of .078”.
   b. Tread Planks, Riser Planks: Extruded Aluminum alloy 6063-T6, mill finish and a wall thickness of .078”.
Optional: Anodized or Powder Coated riser planks; Powder coated backrests

3. Accessories
   a. Channel End Caps: Aluminum alloy 6063-T6, clear anodized 204R1, AA-M10C22A31, Class II.
   b. Hardware:
      (1) Bolts, Nuts: Hot-dipped Galvanized
      (2) Hold-Down Clip Assembly: Aluminum alloy 6063 - T6
      (3) Structural Hardware: Hot-dipped galvanized, ASTM-A305.
   c. Guard railing: Anodized Aluminum Pipe: 1.66" O.D. 9 gauge chain link fencing or vertical picket guard rails.
   d. Handrails: Anodized aluminum rail 1 .66" O.D.
   e. Cross braces: Extruded aluminum angle alloy 6061-T6, mill finish.

D. Fabrication:
   1. Design Load:
      a. Live Load: 120 psf gross horizontal projection
      b. Lateral Sway Load: 24 plf seat plank
      c. Perpendicular Sway Load: 10 plf seat plank.
      d. Live load of Seat and Tread Plank: 140 plf
      e. Guardrail: 200 plf vertical and 50 plf horizontal.
      f. Guardrail Concentrated Horizontal Load: 200 lbs
      g. Horizontal Wind Load: 30 psf
      h. Plank Live Load: 200 plf across a 6' span with maximum 9/16" deflection
   2. All connections made in shop to be shop welded.
      a. Manufactured by certified welders conforming to AWS Standards.

PART 3 – EXECUTION

3.01 INSTALLATION

   A. Install bleacher unit in accordance with manufacturer’s installation procedures.
   B. IT IS HIGHLY RECOMMENDED that the frame type bleacher unit be securely anchored to a flat, level concrete slab.

(all specifications are subject to change without notice to allow for product improvement.)