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To: All Bidders

Addendum-01

Project: Box Elder County New Arena Grandstands Tremonton UT

Date: 11-27-2018

The following items are clarifications to the drawings and specifications as a result of bidder's questions. This Addendum supersedes previously issue construction documents.

1. *The bid date and opening has been extended to Friday, December 7, 2018, at 1:00pm (local time) at the Box Elder County, Utah, Commission Chambers.*
2. *We have attached a specification which outlines the requirements for this project. It supersedes previous specifications and drawings.*
3. *The drawings are intended to provide a general outline of the extent of the project and its relationship to the surrounding facilities. Refer to the attached specifications for more detailed information regarding dimensions, ADA compliance, materials etc. Refer to Section 1.05 BUILDING CODES.*
4. *Provide a base bid which includes the canopy cover over the entire bleachers as noted in the attached specifications. Provide and alternate deduct, Alternate Deduct No. 01, to eliminate the roof canopy over the bleachers.*
5. *The concrete foundations for the bleachers and roof canopy bid shall be based upon a soil's bearing pressure of 1500 psf. The Owner is obtaining a geotechnical soils investigation to determine the actual soils bearing pressure. However, the report will not be available during the bidding period. The successful bidder will be able to adjust the design when the report is available.*
6. *A minimum seating capacity of 3,365 is required. This shall include wheel chair accessible seating.*
7. *Bidders to provide overall plan, seating layout plan, section drawings and material specifications to describe what they are providing with their bids. This will be reviewed by the Owner and Architect to verify that the systems they are providing are equivalent to the ones specified.*
8. *Refer to attached revised sheet A3.1, which shows the revised conceptual sections for the project.*

Gary Hunt, Architect

End of Addendum-01

BOX ELDER COUNTY FAIRGROUNDS

SECTION 13125

PERMANENT GRANDSTANDS

PART 1 - GENERAL

1.01 SYSTEM DESCRIPTION

- A. Provide labor, material, equipment and supervision necessary to complete installation of permanent steel grandstand, including the following:
 - 1. Steel Substructure
 - 2. Decking System
 - 3. Concrete Foundation
 - 4. Box seating fold down plastic chairs

1.02 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturers must have ten years of experience in the manufacture of bleachers and grandstands; manufacturer must exhibit proof of business existence for past five years with documentation; welders must be AWS certified.
- B. Installer Qualifications: Experienced in the proper installation of grandstands.
- C. Source Quality Control: Mill Test Certification.

1.03 SUBMITTALS

- A. Manufacturer's Product Data: Submit manufacturer's descriptive product data for project.
- B. Shop Drawings: Manufacturer to submit shop drawings sealed by a registered engineer and shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that it will conform to the applicable code and relevant laws.
- C. Certificates:
 - 1. Insurance Certificate
 - 2. Bid Bond
- D. Product Sample: Submit one 18-inch seat sample.
- E. Color Sample: If applicable, submit sample.

1.04 SITE CONDITIONS

- A. Field Site:
 - 1. Owner to make site accessible.
 - 2. Owner to verify site locations, benchmarks.
- B. Underground Utility Line: Owner to clearly mark all underground utilities and obstructions and Owner to relocate all that conflict with grandstand.
- C. Soil Test: Furnished by Owner.

1.05 BUILDING CODES

- A. Must meet or exceed all State and Local applicable codes and in compliance with the 2015 International Building Code adopted by the jurisdiction, CABO/ANSI A117.1 Barrier Free Code and ICC 300 Standard for Grandstands

1.06 WARRANTY

- A. Permanent Grandstand shall be under warranty for a period of one (1) year beginning at Date of Substantial Completion for Projects installed by Manufacturer. The warranty will provide for repair or replacement of failed components due to defect in materials and workmanship of installation for the specified period. This warranty excludes any other defects resulting from abnormal use in service, vandalism, weathering, oxidation, accidental or intentional damage or any occurrences beyond Manufacturer's control.

1.07 MAINTENANCE

- A. Owner is to conduct annual inspection and required maintenance of grandstand to assure safe conditions. It is also recommended that a professional engineer or registered architect perform inspections biennially.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. All bidders shall submit product literature for their systems, with their bids, for review and approval by the Owner and Architect. The bidders must demonstrate that their systems are equivalent to what is required in this specification.

2.02 PERMANENT STEEL GRANDSTAND

- A. Product Description
 1. Horizontal Beam Design: Net seating capacity of 3365 minimum, 6 box seating rows in front of crosswalk and 14 rows behind crosswalk with back length of seating approximately 370' long (Back section lengths shall be approximately 85', 65' and 220' as viewed from arena to form wrap around seating at corner of arena. Front length between miter joints to be 15' long. Approximate depth of grandstand is 61' not including exit widths located rear of seating.)
 2. Vertical columns are placed 18 feet 0 inches on center laterally and as required front to back to meet layout requirements for grandstand.
 3. Horizontal beams are wide flange beams.
 4. Traverse bays are free of cross bracing the total length of the grandstand.
 5. Stringers are wide flange with steel angle rise and depth fabrication and are placed 6 feet on center.
 6. Front Tread:
 - a. Clear width 36 inches.
 - b. Elevated 12 inches above adjacent grade (Arena floor is 3' below grade at front of grandstand)
 7. Entry stairs to be firmly anchored to uniformly poured concrete bases.
 - a. Stair rise: 7 inches maximum with aluminum closure and contrasting aluminum stair nose.
 - b. Stair tread depth: 11 inches minimum.

- c. Guardrails: As required by code.
 - d. Stairs to have handrail extension. The handgrip portion of handrails shall not be less than 1 1/2 inches or more than 2 inches in cross-sectional dimension or the shape shall provide an equivalent gripping surface. The handgrip portion of handrails shall have a smooth surface with no sharp corners. The top of handrails and handrail extensions shall be placed not less than 34 inches or more than 38 inches above the nosing of treads and landings. Where handrails are not continuous between flights, the handrails shall extend horizontally at least 12 inches beyond the top riser and continue to slope for the depth of one tread beyond the bottom riser. Ends shall be returned or shall terminate in newel posts or safety terminals.
 - e. Stairs to be provided at right end of grandstand seating and at middle of portal exit in middle miter section. 10' wide stair provided at catwalk access to access concessions and toilet buildings.
8. Aisles:
- a. Aisles with seating on both sides to have discontinuous mid-aisle handrails. The handrails shall be discontinuous with breaks at intervals not to exceed five rows. These breaks shall have a clear width of at least 22 inches and not greater than 36 inches horizontally.
 - b. Anodized aluminum handrails with rounded ends to be provided with an intermediate handrail below the main handrail.
 - c. Aluminum tread nosing of contrasting color on aisle steps.
 - d. Half steps shall be provided for riser heights above 8 inches.
 - e. Half steps shall provide equal rise and run throughout aisle. Each shall have aisle nosing with non-skid black powder coated finish or other paint system meeting AAMA 603.8-92 specifications with a hardness rating of 2H and riser closure with clear anodized finish.
 - f. Aisles with a riser height of non-uniformity shall be indicated with distinctive markings as required by code.
9. Decking: Box Seating: Rows 1-6
- a. Rise per row 10 inches, depth per row 36 inches.
 - b. Each seat 17 inches above its respective tread.
 - c. Mill Aluminum Decking Arrangement
 - (1) INTERLOCK Aluminum Decking System
 - d. Seating Selection
 - Stadium Chair Model Quantum, as manufactured by Camatic or equivalent.
 - (a) Manual lift, Self-rising or Fixed
 - (b) Quantity 801 minimum. Width 20" minimum with 21" and 22" as needed.
10. Decking: Rows 7-20
- a. Rise per row 13 inches, depth per row 26 inches.
 - b. Each seat 17 inches above its respective tread.
 - c. Mill Aluminum Decking Arrangement
 - (1) Tongue-and-Groove System
 - d. Seating Selection
 - (1) Anodized Aluminum Bench Seat
 - (a) 2 x 10 (standard), Die #7758 with height of 1 1/2".
10. Guard railing: To be at all sides of bleacher, entry stairs and ramps, portals, and landings. Railing to be anodized aluminum with end plugs at ends of straight runs and/or elbows at corner. All guard rails shall be secured to angle rail risers by galvanized fasteners. Railing shall be at heights as required by code for its location on the grandstand. Guard railing shall include intermediate

- railing, or galvanized chain link fencing fastened in place with galvanized fasteners and aluminum ties.
11. Cross Aisles:
 - a. elevated 39" above tread for row 6 seating with 6 – 6.5" steps to access crosswalk
 - b. aisle steps extended from lower seating 2 steps into front of crosswalk
 - c. Wheel chair accessible seating locations at front of crosswalk with companion seating as required per code requirements. Companion seating to be floor mounted maverick bench seating.
 - d. Crosswalk width to be 10' from nose to face of riser board closure rear of walk.
 - e. 2'2" rise to first tread behind crosswalk with riser board façade to enclose vertical opening full height. 2-line balcony rail at front of all seating back of crosswalk.
 - f. Crosswalk to be extended back 2 rows in alternating sections to allow for stairs to be added for access to upper seating.
 - g. Stairs to be installed to 3'3" above crosswalk at each upper seating aisle to tread at seat row 8. Step down from top stair landing to be provided for seat row 7 access.
 12. Integral Roof:
 - a. Rear grandstand columns to be spaced approximately 18' oc. and all columns to be extended to height of 8' above back tread for support of roof beams.
 - b. Front roof columns to be installed at front of crosswalk and spaced approximately 36' oc. with every other column projecting through the decking system.
 - c. Header beams to be installed between front row of roof columns for support of intermediate roof beams. All roof beams supported at rear by back row columns.
 - d. Roof beams installed front to back at approximately 18' oc. and cantilever approximately 20' from centerline of column to front of roof.
 - e. Zee purlins installed at spacing required for support of design loading at this location. All zees to be hot dipped galvanized finish.
 - f. 26-gauge R panel as manufactured by MBCI provided for roof. Colors to be selected from Signature 200 colors or Galvalume finish.
 - g. Tie-offs to be provided as required by OSHA requirements.
 13. Ramps:
 - a. Slope: 1 in 12.5.
 - b. Guard rails: As required by code plus toe board both sides for wheel guard.
 - c. Handrail: Ramps to have handrail extension. The handgrip portion of handrails shall not be less than 1 1/2 inches or more than 2 inches in cross-sectional dimension or the shape shall provide an equivalent gripping surface. The handgrip portion of handrails shall have a smooth surface with no sharp corners. The top of handrails and handrail extensions shall be placed not less than 34 inches or more than 38 inches above the ramp surface. Where handrails are not continuous between runs, the handrail shall extend horizontally above the landing 12 inches minimum beyond the top and bottom ramps. Ends shall be returned or shall terminate in newel posts or safety terminals.
 - d. Stair to be provided at left end of crosswalk with front to rear leg, 90 degree turn at corner of stand, and as required in length at rear of stand to reach grade.
 - e. Switchback ramp to be provided from 10' wide catwalk located for access between concessions and toilet buildings.
 14. Handicap provision:
 - a. Quantity of wheelchair spaces: as required by IBC with 6 for first 500 seating capacity and 1 per 150 for balance of seating

- b. 2-line balcony rail with 2x6 toe board provided front of all wheel chair accessible locations.
 - c. Maverick Benches to be floor mount adjacent to all wheel chair accessible locations. Space not needed for Wheel Chair and companion seating locations will be filled with Maverick bench seating to maximize seating capacity.
 - 15. Catwalk to Concessions and Toilet Buildings
 - a. 10' wide catwalk from rear of crosswalk provided with full width stair exit and switchback ramp to grade.
 - b. Guard Rails: As required by code plus toe board both sides.
 - 16. Seat Numbers:
 - a. Decal with black lettering on aluminum field.
 - b. Rows: Numerals or alphabetical letters.
 - c. Seat Numbers: Numerals.
- B. Materials/Finishes
- 1. Substructures:
 - a. Structural shapes meet one of the following ASTM specifications: A36, A36/A572 grade 50, A572 grade 50, A529-50, or A500 grade B.
 - b. Shop connections are seal welds.
 - c. After fabrication, all steel is hot-dipped galvanized to ASTM-A-123 specifications.
 - d. Painted steel finish is unacceptable.
 - 2. Extruded Aluminum:
 - a. Seat Planks, Riser Planks, and Railing are extruded aluminum alloy, 6063-T6.
 - (1) Clear anodized 204R1, AA-M10C22A31, Class II finish
 - b. Tread planks are extruded aluminum alloy 6063-T6 mill finish.
 - c. Railing: Extruded aluminum alloy, 6063-T6 clear anodized 204R1, AA-M10C22A31, Class II.
 - 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 or mechanically galvanized.
 - (2) Hold-down Clip Assembly: Aluminum alloy 6005A-T6, mill finish.
 - (3) Structural Hardware: Equal to or greater than hot-dipped galvanized ASTM-A307. No connections utilizing high strength bolts are classed as slip critical.
 - d. Aisle Nose and Stair Nose: Aluminum alloy, 6063-T6, non-skid black powder coated finish or other paint system meeting AAMA 603.8-92 specifications with a hardness rating of 2H.
- C. Fabrication:
- 1. Design Load:
 - a. Tread and Seat Area: 100 psf. uniform live load.
 - b. Seat (Vertical): 120 lbs/lf.
 - c. Seat (Horizontal Sway): 24 lbs/lf parallel and 10 lbs/lf perpendicular to seat.
 - d. Handrail and Guardrail: 50 lbs/lf in any direction.
 - e. Handrail and Guardrail: 200 lbs concentrated in any direction.
 - f. Snow Loads: As per local adopted codes.
 - g. Wind Loads: As per local adopted codes.
 - h. Seismic Loads: As per local adopted codes.

Note: The bidders are required to contact the local jurisdiction to verify the above code requirements.

2. All manufactured connections to be shop welded.
 - a. Manufactured by certified welders conforming to AWS Standards.

PART 3 - EXECUTION

3.01 INSTALLATION

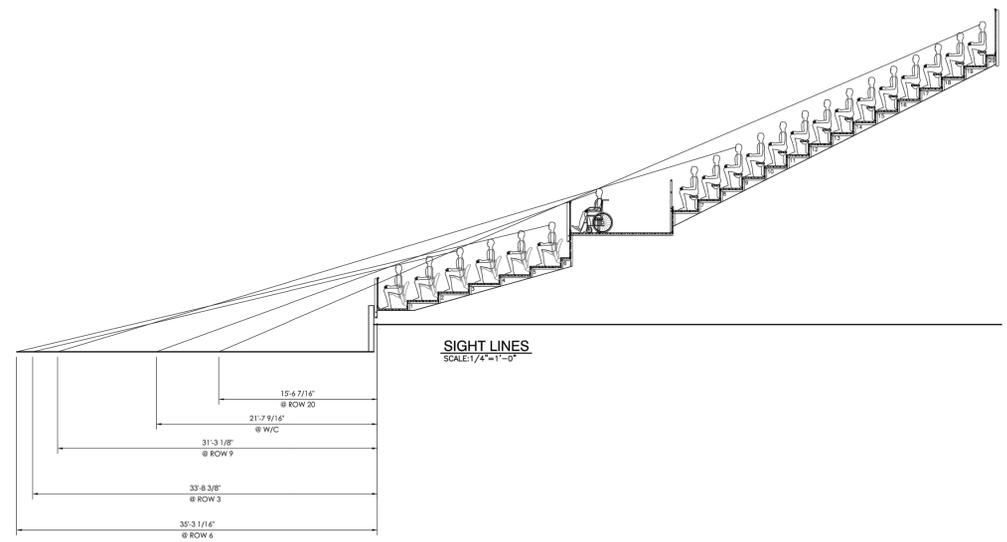
- A. All work performed by technicians experienced in bleacher seating installation.
- B. Project as per approved shop drawings.

3.02 FIELD QUALITY CONTROL

- A. Foundation: Footings for the grandstand shall provide sufficient bearing area at bottom to support all loads of the grandstand. Depth and design of footings shall be determined by Owner supplied soil test. Hot-dipped galvanized anchor bolts shall be secured in the concrete footings. Concrete shall attain working strength of 4,500 psi., have a water to cement ratio of 0.45, with an F2 exposure, as required by ACI Table 19.3.2.1.

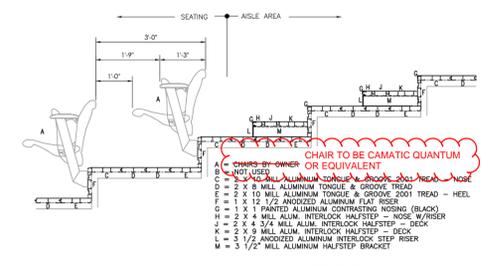
3.03 CLEAN-UP

- A. Clean up all debris caused by work of this section.
- B. The Owner, Architect and Contractor acknowledge and accept that mill finish aluminum as specified will have water stains present from transportation and storage during installation. Removal of these stains is not part of this contract.
- C. Stand to be broom cleaned at completion.

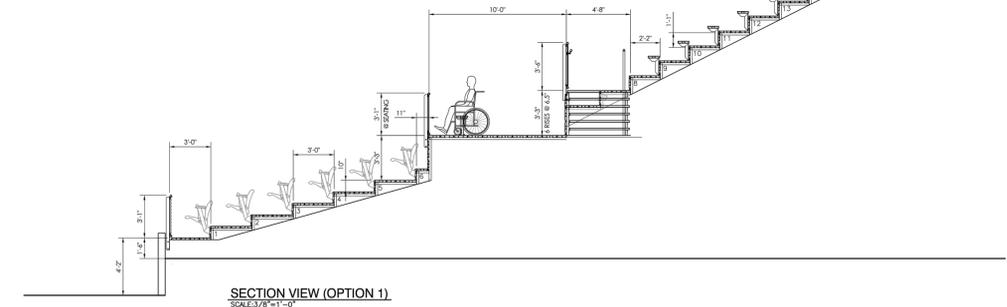


Conceptual Bleacher Section
SCALE: 1/4" = 1'-0"

C2
A3.1



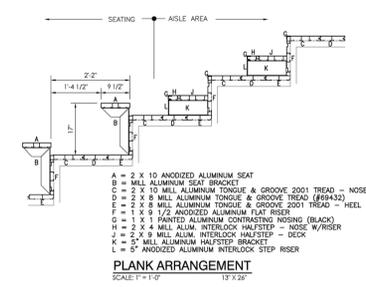
PLANK ARRANGEMENT
SCALE: 1" = 1'-0"



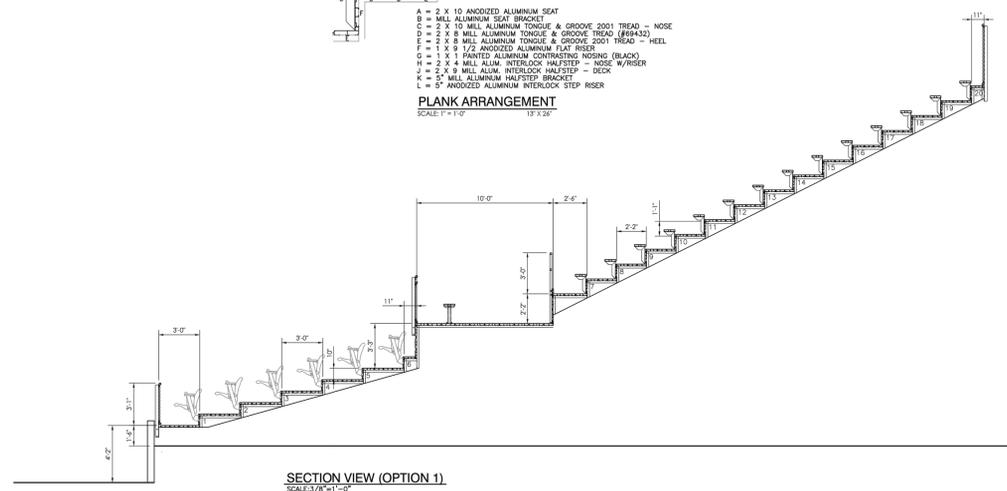
SECTION VIEW (OPTION 1)
SCALE: 3/8" = 1'-0"

Conceptual Bleacher Section
SCALE: 1/4" = 1'-0"

C5
A3.1



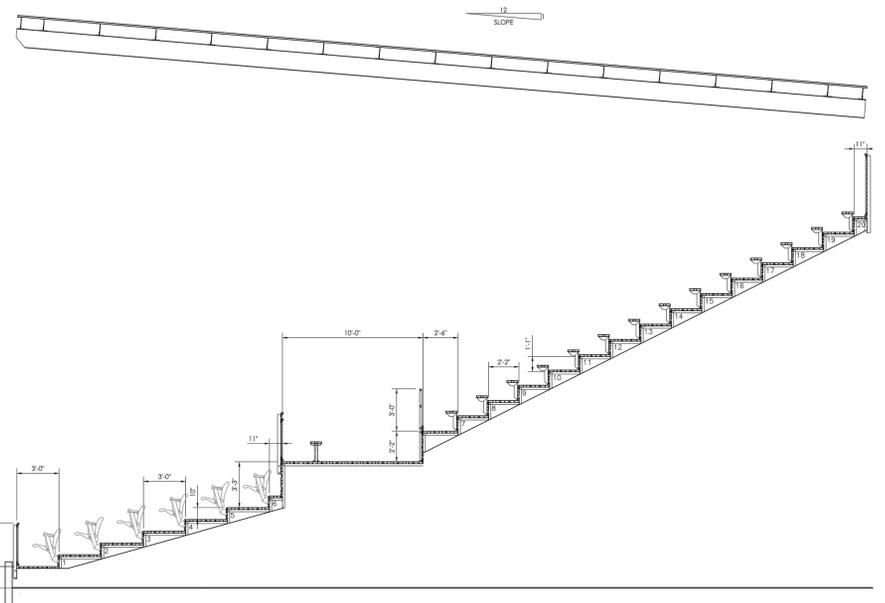
PLANK ARRANGEMENT
SCALE: 1" = 1'-0"



SECTION VIEW (OPTION 1)
SCALE: 3/8" = 1'-0"

Conceptual Bleacher Section
SCALE: 1/4" = 1'-0"

A2
A3.1



SECTION VIEW (OPTION 2)
SCALE: 3/8" = 1'-0"

Conceptual Bleacher Section
SCALE: 1/4" = 1'-0"

A5
A3.1

APPENDIX NO. 01/11/21/2018		
No.	Revision/Issue	Date



New Arena Grandstands
Box Elder County Fairgrounds
 1000 W. Between Main St. & 1000 N. - Tremonton, UT

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Sheet Title: Sections & Details	
Project No: #2018-08	Date: 29 Oct 18
Scale: AS NOTED	
A3.1	