

Bid Date: Thursday, March 17, 2016 @ 2:00 p.m.

ADDENDUM NO. 2

The additions, omissions, clarifications and corrections contained herein shall be made to drawings and specifications for the project and shall be included in scope of work and proposals to be submitted. References made below to specifications and drawings shall be used as a general guide only. Bidder shall determine the work affected by Addendum items.

1.	Last day for questions:	March 14, 2016 at noon.
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Written Questions and Answers:

1.	Question:	Structural drawing S-002, under Wood Structural Sheathing indicates OSB Sheathing is acceptable but also states the Architect may disallow. Is 19/32 OSB t&g Sheathing going to be allowed?
	Answer:	The Architect will allow it.
2.	Question:	Details A3, A4, and C4/A-511 show solid shapes. Structural shows rebar. Will the shapes be solid or have cores?
	Answer:	The shapes shown in the architectural are overall exterior shapes. Structural details and plans will override these details, if cores are needed per structural plans.
3.	Question:	Do the GLB's receive paint/stain?
	Answer:	Specification section 06 18 00 2.1.D & E calls out sealing the glu-lam beams using the timber manufacturer's standard sealer.

In the Specification:

1.	Division 0 – Bidding Requirements Bidder's Checklist	REPLACE Section in its entirety with attached.
2.	Section 07 21 00 Thermal Insulation	REVISE Page 3, Paragraph 2.4 as follows: "A. Open Cell Polyurethane Insulation: Sprayed/Injected-in-place. 1. Surface Burning Characteristics (ASTM E84): Flame Spread Index 25 Smoke Developed Index 400 2. Core Density (ASTM D1622) .55 lb/ft ³ 3. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that might be incorporated into the Work include, but are not limited to, the following: a. BASF Corporation b. Dow Chemical Company (The). c. ERSystems, Inc. d. Gaco Western Inc. e. NCFI; Division of Barnhardt Mfg. Co. f. Tailored Chemical Products. 4. Thermal resistivity: R 4.04/inch ASTM C 5/8.
3.	Section 32 31 19 Aluminum Ornamental Fence	REPLACE Section in its entirety with attached.

ADDENDUM NO. 2

4.	Section 32 91 13 Soil Preparation	REVISE Page 5, PART 3 – EXECUTION, 3.2 B PLACING MANUFACTURED PLANTING SOIL OVER EXPOSED SUBGRADE as follows: B. Application: Spread topsoil to total depth of 6 inches in planter areas and 2 inches in sod or hydroseeded areas, but not less than required to meet finish grades after natural settlement. Do not spread if soil or subgrade is frozen, muddy, or excessively wet.
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In the Drawings:

1.	Sheet L-101 Construction Notes	ADD New note number 10 to read as follows: "10. All sodded and hydroseeded areas to receive 2" of topsoil over existing subgrade."
2.	Sheet L-101 Construction Notes	REVISE Note number 5 to read as follows: "All planter areas to receive 2" deep rock mulch top dressing, basalt chip. Basalt chip to be 1.5" to match existing. Submit sample for approval."
3.	Sheet AS-120, Detail A1	REVISE Note to read as follows: "22 GA Metal Panel MTD to back side of ornamental fence (per Landscape Specs) – PAINT METAL PANELS TO MATCH METAL WALL PANELS ON BUILDING ELEVATIONS."
4.	Sheet AS-120, Detail A4	REVISE Note to read as follows: "BLACK ORNAMENTAL FENCE PER LANDSCAPE SPECIFICATIONS."
5.	Sheet AS-120 Detail B1	REVISE Note to read as follows: "METAL WALL PANELS MOUNTED TO BACK OF 7' HIGH BLACK ORNAMENTAL FENCE PANELS – SEE LANDSCAPE SPECIFICATIONS FOR MORE FENCE INFORMATION."
6.	Sheet AS-120, Detail D1	REVISE Note to read as follows: "4' HIGH BLACK ORNAMENTAL FENCE PER LANDSCAPE SPECIFICATIONS."

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SPOKANE INTERNATIONAL AIRPORT

Parking Operations Garage, #15-40-1867

BIDDER'S CHECKLIST

To be **included with** Bid Proposal Form when you submit your Bid

Check off each of the following as completed:

- Bidder's Checklist and Acknowledgement of All Addenda on the Bid Proposal Form;
- Qualification of Bidder Information: Each bidder shall furnish satisfactory evidence of his/her competency to perform the proposed work within the time specified. Such evidence of competency shall consist of the following items:
 - Written statement covering the bidder's past experience on similar work, which shall include identification of three (3) projects completed in the last five (5) calendar years of equal or greater dollar value than this project, and involving the same or substantially similar trades and in which bidder served as the general contractor; and
 - Names, addresses, and telephone numbers of three (3) persons who have knowledge of the bidder's competency to complete this project and who are authorized to discuss with owner confidential information attesting to the bidder's competency to perform the proposed work.

Each bidder shall submit evidence of competency as required above to the owner with his/her bid. Failure of the bidder to submit the above-required information with the bid shall render the bid non-responsive and shall be grounds for rejection of said bid;

- Bid Proposal Form: Submitted on appropriate form, filled out legibly and completely. Failure to fill in any of the blanks shall be grounds for setting aside bid as non-responsive;
- Subcontractor List: Submitted on appropriate form, filled out legibly and completely;
- Bid Security attached in the Amount of 5% of Total Bid (Bid plus WSST) in the form of (Check one):
 - Bid Bond -OR-
 - Certified Check;
- Bid is submitted in a sealed opaque envelope, identified with the following:
 - Project Name
 - Bidder's Name
 - Bidder's Address

(NOTE: If mailed, enclose sealed bid in a separate mailing envelope with the following notation "Sealed Bid Enclosed.")

STATEMENT OF COMPLIANCE AND BIDDER'S CHECKLIST ACKNOWLEDGEMENT

The undersigned has reviewed, read and fully understands these Bid Documents and this checklist, fully complies therein, and certifies that all required elements, as marked herein and contained within the specification are included in this Bid Proposal.

Authorized Signature: _____

Date: _____

END OF BIDDER'S CHECKLIST

SECTION 32 31 19

STEEL ORNAMENTAL FENCE

PART 1 – GENERAL

1.1 WORK INCLUDED

- A. The contractor shall provide all labor, materials and all necessary items for the installation of the Ameristar, Montage Industrial Welded and Rackable Ornamental Steel fence system defined herein at the project site and as shown on Architectural drawings.

1.2 RELATED WORK

- A. Section 033000 Concrete
- B. Section 042000 Unit Masonry

1.3 SYSTEM DESCRIPTION

- A. The manufacturer shall supply a total ornamental steel fencing system. Fencing system to be Ameristar, Montage Industrial Welded and Rackable Ornamental Steel Fence, including both 4 foot and 7 foot heights, see detail exhibits at the end of this section.
- B. The system shall include all components (i.e., pickets, posts, rails, gates and hardware) required.

1.4 QUALITY ASSURANCE

- A. The contractor shall provide laborers and supervisors who are thoroughly familiar with the type of construction involved and the materials specified.

1.5 REFERENCES

- A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot-Dip Process.
- B. ASTM B117 - Practice for Operating Salt-Spray (Fog) Apparatus.
- C. ASTM D523 - Test Method for Specular Gloss.
- D. ASTM D714 - Test Method for Evaluating Degree of Blistering in Paint.
- E. ASTM D822 - Practice for Conducting Tests on Paint and Related Coatings and Materials using Filtered Open-Flame Carbon-Arc Light and Water Exposure Apparatus.
- F. ASTM D1654 - Test Method for Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments.
- G. ASTM D2244 - Test Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates.
- H. ASTM D2794 - Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact).
- I. ASTM D3359 - Test Method for Measuring Adhesion by Tape Test.
- J. ASTM F2408 – Ornamental Fences Employing Galvanized Steel Tubular Pickets.

1.6 SUBMITTALS

- A. The manufacturer's submittal package shall be submitted prior to installation to confirm compliance with all requirements for materials specified in this section.
- B. Contractor to submit shop drawings for approval.
 - 1. Connections at masonry columns.
 - 2. Gate installation details latches and hinges.
 - 3. Footings.

1.7 PRODUCT HANDLING AND STORAGE

- A. Upon receipt at the job site, all materials shall be checked to ensure that no damages occurred during shipping or handling. Materials shall be stored in such a manner to ensure proper ventilation and drainage and to protect against damage, weather, vandalism and theft.

1.8 WARRANTY

- A. Contractor shall provide manufacturer's warranty for parts and materials. Contractor shall provide a warranty for all work and labor for a period of one (1) year. Fencing shall be warranted for one (1) year from the date of "Final Completion" for the project. The contractor shall submit to the Owners' representative a one (1) year warranty on the company letter head indicating date of Final Completion, beginning and ending dates of warranty.

PART 2 – MATERIALS

2.1 MANUFACTURER

- A. The ornamental fence system shall conform to Ameristar's Montage Industrial steel ornamental fencing, Majestic 3-rail style manufactured by Ameristar Perimeter Security USA Inc., in Tulsa, Oklahoma.

2.2 MATERIAL

- A. Steel material for fence panels and posts shall conform to the requirements of ASTM A653/A653M, with a minimum yield strength of 45,000 psi (344 MPa) and a minimum zinc (hot-dip galvanized) coating weight of 0.60 oz/ft² (184 g/m²), Coating Designation G-60. A minimum of 62% of the steel material shall be derived from recycled scrap metal.
- B. Material for pickets shall be 1" square x 16 Ga. tubing. The rails shall be steel channel, 1.75" x 1.75" x .105". Picket holes in the rail shall be spaced 4.715" o.c. For fence systems up to and including 6 feet tall, posts shall be a minimum of 2-1/2" square x 14 Ga. For fence systems 7 feet tall and 8' tall, posts shall be a minimum of 2-1/2" square x 12 Ga. Gate posts shall meet the minimum requirements of Table 1.

2.3 FABRICATION

- A. Pickets, rails and posts shall be pre-cut to specified lengths. Rails shall be pre-punched to accept pickets.
- B. Pickets shall be inserted into the pre-punched holes in the rails and shall be aligned to standard spacing using a specially calibrated alignment fixture. The aligned pickets and rails shall be joined at each picket-to-rail intersection by Ameristar's proprietary fusion welding process, thus completing the rigid panel assembly (Note: The process produces a virtually seamless, spatter-free good-neighbor appearance, equally attractive from either side of the panel).
- C. The manufactured panels and posts shall be subjected to an inline electrodeposition coating (E-Coat) process consisting of a multi-stage pretreatment/wash (with zinc phosphate), followed by a duplex application of an epoxy primer and an acrylic topcoat. The minimum cumulative coating thickness of epoxy and acrylic shall be 2 mils (0.058 mm). The color shall be Black. The coated panels and posts shall be capable of meeting the performance requirements for each quality characteristic shown in Table 2 (Note: The requirements in Table 2 meet or exceed the coating performance criteria of ASTM F2408).
- D. The manufactured fence system shall be capable of meeting the vertical load, horizontal load, and infill performance requirements for Industrial weight fences under ASTM F2408.
- E. Swing gates shall be fabricated using 1.75" x 14ga Forerunner double channel rail, 2" sq. x 11ga. gate ends, and 1" sq. x 14ga. pickets. Gates that exceed 6' in width will have a 1.75" sq. x 14ga. intermediate upright. All rail and upright intersections shall be joined by welding. All picket and rail intersections shall also be joined by welding. Gusset plates will be welded at each upright to rail intersection. Cable kits will be provided for additional trussing for all gates leaves over 6'.

PART 3 – EXECUTION

3.1 PREPARATION

- A. All new installation shall be laid out by the contractor in accordance with the construction plans.
- B. Stake layout for approval by Owner's representative in the field.

3.2 FENCE INSTALLATION

- A. Fence post shall be spaced according to Table 3, plus or minus ½". For installations that must be raked to follow sloping grades, the post spacing dimension must be measured along the grade. Fence panels shall be attached to posts with brackets supplied by the manufacturer. Posts shall be set in concrete footers having a minimum depth of 36" (Note: In some cases, local restrictions of freezing weather conditions may require a greater depth). The "Earthwork" and "Concrete" sections of this specification shall govern material requirements for the concrete footer. Posts setting by other methods such as plated posts or grouted core-drilled footers are permissible only if shown by engineering analysis to be sufficient in strength for the intended application.

3.3 FENCE INSTALLATION MAINTENANCE

- A. When cutting/drilling rails or posts adhere to the following steps to seal the exposed surfaces:
 - 1. Remove all metal shavings from cut area.
 - 2. Apply custom finish paint matching fence color.
 - 3. Apply 2 coats of custom finish paint matching fence color.
 - 4. Failure to seal exposed surfaces per steps 1 & 2 above will negate warranty. Ameristar spray cans or paint pens shall be used to finish exposed surfaces; it is recommended that paint pens be used to prevent overspray. Use of non-Ameristar parts or components will negate the manufactures' warranty.

3.4 GATE INSTALLATION

- A. See architectural plans for gates, where required. Gate posts shall be spaced according to the manufacturers' gate drawings, dependent on standard out-to-out gate leaf dimensions and gate hardware selected. Type and quantity of gate hinges shall be based on the application; weight, height, and number of gate cycles. The manufacturers' gate drawings shall identify the necessary gate hardware required for the application. Gate hardware shall be provided by the manufacture of the gate and shall be installed per manufacturer's recommendations.

3.5 CLEANING

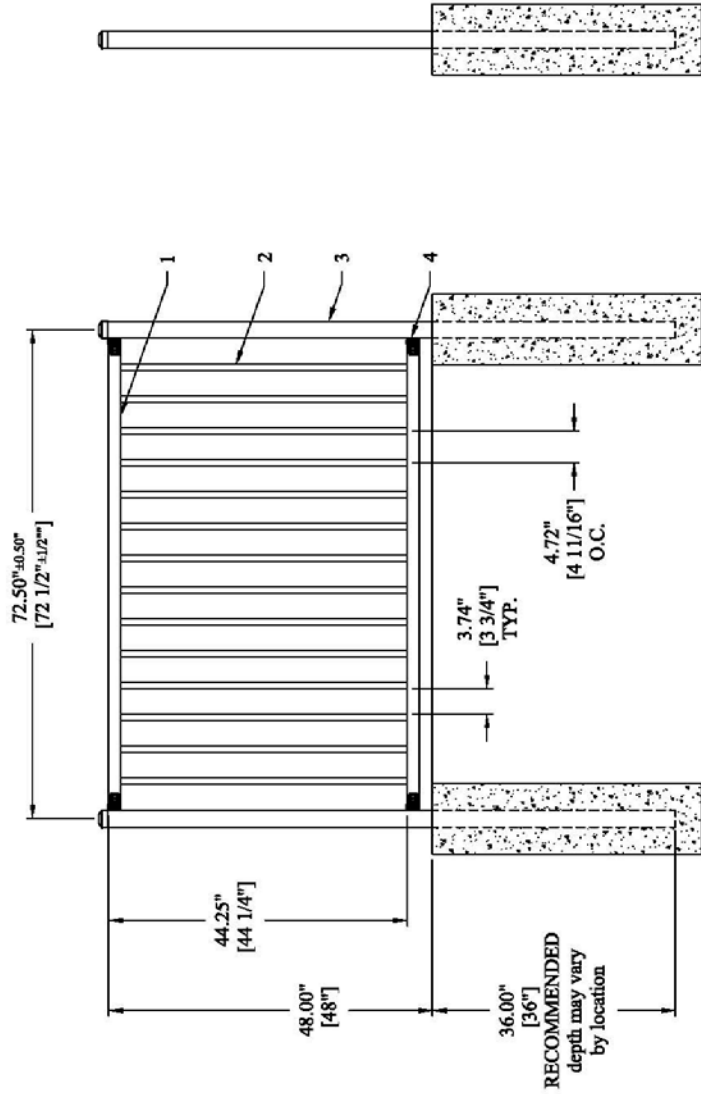
- A. The contractor shall clean the jobsite of excess materials; post-hole excavations shall be scattered uniformly away from posts.

Table 1 – Minimum Sizes for Montage Industrial Posts			
<u>Fence Posts</u>	<u>Panel Height</u>		
2-1/2" x 14 Ga.	Up to & Including 6' Height		
2-1/2" x 12 Ga.	Over 6' Up to & Including 8' Height		
<u>Gate Leaf</u>	<u>Gate Height</u>		
	<u>Up to & Including 4'</u>	<u>Over 4' Up to & Including 6'</u>	<u>Over 6' Up to & Including 8'</u>
Up to 4'	2-1/2" x 12 Ga.	3" x 12 Ga.	3" x 12 Ga.
4'1" to 6'	3" x 12Ga.	4" x 11 Ga.	4" x 11 Ga.
6'1" to 8'	3" x 12 Ga.	4" x 11 Ga.	6" x 3/16"
8'1" to 10'	4" x 11 Ga.	6" x 3/16"	6" x 3/16"
10'1" to 12'	4" x 11 Ga.	6" x 3/16"	6" x 3/16"
12'1" to 14'	4" x 11 Ga.	6" x 3/16"	6" x 3/16"
14'1" to 16'	6" x 3/16"	6" x 3/16"	6" x 3/16"

Table 2 – Coating Performance Requirements		
<u>Quality Characteristics</u>	<u>ASTM Test Method</u>	<u>Performance Requirements</u>
Adhesion	D3359 – Method B	Adhesion (Retention of Coating) over 90% of test area (Tape and knife test).
Corrosion Resistance	B117, D714 & D1654	Corrosion Resistance over 1,500 hours (Scribed per D1654; failure mode is accumulation of 1/8" coating loss from scribe or medium #8 blisters).
Impact Resistance	D2794	Impact Resistance over 60 inch lb. (Forward impact using 0.625" ball).
Weathering Resistance	D822 D2244, D523 (60° Method)	Weathering Resistance over 1,000 hours (Failure mode is 60% loss of gloss or color variance of more than 3 delta-E color units).

Table 3 – Montage Industrial – Post Spacing By Bracket Type										
Span	For CLASSIC, GENESIS, & MAJESTIC 6' Nominal									
Post Size	2-1/2"									
Bracket Type	Industrial Flat Mount (BB301)*									
Post Settings ± 1/2" O.C.	70-1/2"									
*Note: When using BB304 swivel brackets on either or both ends of a panel installation, care must be taken to ensure the spacing between post and adjoining pickets meets applicable codes. This will require trimming one or both ends of the panel.										

#	DESCRIPTION
1	1.34"x50"x126" CHANNEL RAIL
2	1"x50"x166" POST
3	216"x50" POST
4	BX301 BRACKET



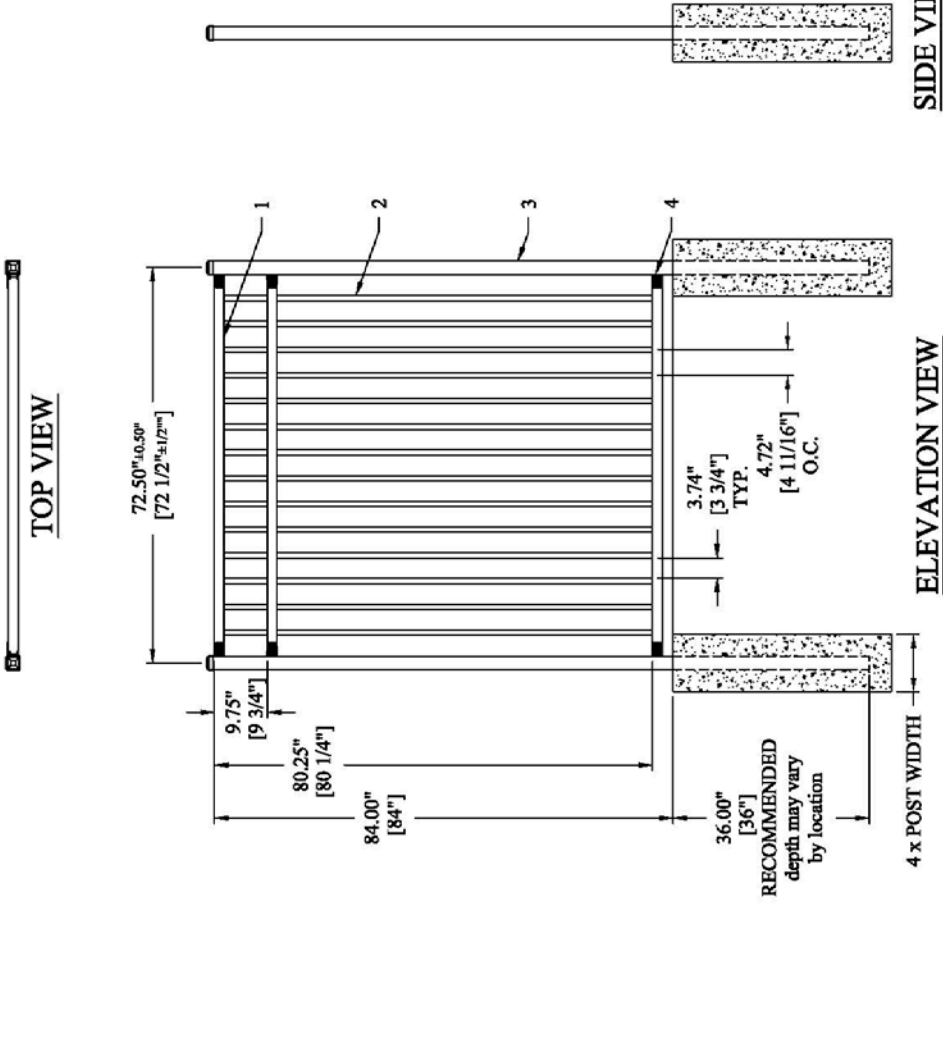
SIDE VIEW

ELEVATION VIEW

REV	DATE	BY	CHKD	DESCRIPTION
1	03/01/19	LJM	BJB	ISSUED FOR CONSTRUCTION
2				

TITLE: MONTAGE INDUSTRIAL STEEL PANEL - PEDAL DATE: 03/01/19 DRAWING NO.: 12-100-868B SHEET: 1 OF 1 REV: A	

#	DESCRIPTION
1	1 3/4" SQ x 12' CH CHANNEL RAIL
2	1" SQ x 16' POST
3	2 1/2" SQ POST
4	8X200 BRACKET



		1100 N. HWY. 10 SPOKANE, ID 83402 1-800-333-7422 WWW.AMERISTAR.COM
TITLE: MOUNTAIN INDUSTRIAL STEEL PANEL - SPECIAL		SHEET: 1 of 1
DATE: 07/20/16		DESIGNED BY: LJM
DRAWN BY: LJM		REV: A
DRAWING NO.: 15-100-1867		

END OF SECTION 32 31 19