LARAMIE COUNTY COMMUNITY COLLEGE

Additional Items for Exterior Wayfinding Signage System

AUGUST 7, 2017 | FINAL
The Fabricator shall submit for review and approval shop drawings of all fabricated items, product data and samples to the Owner and Tangram. This submission shall consist of detailed drawings that indicate all materials, finishes, construction details, lighting requirements, installation details, and artwork, including locations of all material seams. Drawings shall include elevations, plans, sections, and notes as required to clearly convey fabrication intent. Tangram shall advise and review all shop drawing submittals for fidelity and conformance with the design intent drawings. Upon review, the Fabricator shall make all requested revisions and resubmit as required. A complete set of approved shop drawings must be received from both the Owner and Tangram prior to production may begin. Required submittals must be issued in adequate time to coordinate a two week review and approval process without delaying the project schedule.

2.3 Samples and Prototypes
The fabricator will provide samples of all paints used in the project for review and proposal by Owner and Tangram. Due to the limited amount of signs, prototypes will not be required. However, if final product does not meet quality standards during the punch list review, the sign type may have to be fixed or replaced.

3.0 FABRICATION & INSTALLATION REQUIREMENTS

3.1 Permitting & Regulation Compliance
The Fabricator is responsible for securing and paying for all permits, insurances, inspections, and tests required by governmental agencies. The Fabricator is also responsible for verifying and ensuring compliance with all ADA, OSHA, environmental regulations, and all other applicable governing code requirements. Fabrication of signage shall be designed to meet local building codes including ASCE 7, Wind speed of 130mph. All required resolutions or revisions to construction details must be approved by the Owner and Tangram prior to production.

3.2 Structural Requirements
The Fabricator shall follow Tangram’s drawings for exterior visual appearance, but designs of internal structure, engineered connections, mounting assemblies, and foundations are by the Fabricator. Structural design shall utilize self-supportive framing and prevent irregularities in exposed surfaces. The Fabricator shall provide the Owner and Tangram with calculations for all structural members and foundations and they must be sealed by certified engineers registered in the state of installation, prior to fabrication. The Fabricator shall provide the Owner and Tangram with a list of support and/or blocking requirements, and approximate weights for each element as required after final shop drawing approval. The Fabricator's installation responsibilities include the provision of any required footings, anchor bolts, or fastenings. All point-of-connection coordination is the responsibility of the Fabricator.

3.3 Labeling
Visible labels, manufacturer’s or otherwise, code permitting, shall not appear on any completed element. The placement of any required labels must be approved by Tangram prior to application and installation.

3.4 Artwork & Fonts
Tangram will provide the Fabricator with layout guidelines and electronic artwork as required, however all final copy layouts are the responsibility of the Fabricator. The Fabricator shall legally acquire, at their own expense, all project fonts from the specified distributors, as necessary. Tangram will not provide copies of licensed fonts.

3.5 On-Site Coordination and Installation
All installation will be coordinated with the Owner. No installation shall be permitted without sign-off of construction and final location approval through the Owner. The Fabricator shall field verify all measurements indicated on drawings to establish correctness.

Project is located at 1400 E. College Drive, Cheyenne, Wyoming 82007. Fabricator shall examine the site prior to executing this agreement so as to reasonably ascertain the nature of the work and the various conditions affecting the work. All locations shown in the enclosed location plans are approximate. The Fabricator is responsible for field verification and coordination of all final locations. The Fabricator shall notify the Owner and Tangram of any discrepancies between Tangram’s drawings, location plans, or message schedule, and field conditions prior to sign fabrication. All required resolutions or revisions to construction details or installation processes must be approved by the Owner and Tangram prior to production. The Fabricator shall keep the site reasonably free from debris, trash and construction wastes resulting from the performance of the work. The Fabricator shall be responsible for cleaning up all work areas upon the completion of work on a daily basis. Upon completion of the work, Fabricator shall remove all debris, trash, construction wastes, materials, equipment, machinery and tools arising from the work. All finish surfaces at the base of the sign (lawn, mulch, brick, etc.) shall be repaired to match existing finish grade. All installed items shall be left in a clean and as-new condition. The Fabricator shall be fully responsible for the security and quality of all equipment, materials, and installed components until they have been reviewed and accepted by the Owner. All installations are to be level and plumb or will not be accepted. Immediately after erection, clean bolted connections and abraded areas of shop paint. Paint exposed areas with same paint of finish used for shop painting. If marred areas cannot be adequately touched up on site, the sign will be returned to the shop for controlled refinishing.
3.6 Inspection
At all reasonable times, Fabricator shall provide sufficient facilities for inspection of the work by Owner or Tangram at the site and at all locations where portions of the work are in progress or various stages of completion. When appropriate portions of the work are ready for inspection, Fabricator shall notify Owner and Tangram.

3.7 Safety
The Fabricator recognizes the importance of performing the work in a safe manner so as to prevent damage, injury or loss to (i) all individuals at the site, whether working or visiting, (ii) the work, including materials and equipment incorporated into the work or stored on-site or off-site, (iii) the work of others on the project, and (iv) all other property at the site or adjacent thereto. Fabricator assumes responsibility for implementing and monitoring all safety precautions and programs related to the performance of the work.

The Fabricator shall be responsible for providing barricade or protective coverings as necessary to safeguard the public and property during the performance and duration of their work. The Fabricator shall be fully responsible for any injuries to the public or damage to the buildings, site, and adjacent objects during installation.

4.0 MATERIAL STANDARDS
All materials, hardware, and finishes used to fabricate any and all components shall be new (i.e. not previously used or operated in any other application) from the most recent manufacturer’s production supply and free from any defects impairing strength, durability or appearance.

All letters forms shall be aligned to maintain a base line parallel to the sign format. Margins must be maintained as specified by type grids in the drawings.

4.1 Metals
Metals shall be the best commercial quality for the purposes specified and free from defects impairing strength, durability, or appearance. All joints must be welded, filled, ground and sanded smooth prior to painting to insure an uniform surface. All sheet metal shall have brake formed edges with radii not greater than sheet thickness. All metals must be treated to prevent corrosion and staining of other finishes. All aluminum materials must be thoroughly sanded to remove oxidation and primed prior to painting to insure maximum paint adhesion.

4.2 Fasteners
All exposed fasteners shall be tamper-proof, resistant to oxidation and other corrosion, and painted to match adjacent surfaces. Concealed fasteners must be resistant to oxidation and other corrosion to prevent staining of other finishes.

4.3 Paints & Finishes
All paints and finishes shall match exactly the color, finish, and texture noted. Unless otherwise noted, all pretreats, primers, coatings, and finishes shall be applied in strict accordance with the paint manufacturer’s specifications to provide the highest level of ultraviolet light resistance, weatherability, and overall longevity for both the materials indicated, and the environmental conditions of the final install locations. A polyurethane clear coating shall be applied to seal the paint and preserve the surface from wear and oxidation. All painted surfaces shall be applied with Matthews Paint 42 228SP clear coat, satin finish.

Paints & finishes shall be warranted against color fading, UV damage, cracking, peeling, blistering, and other defects in materials or workmanship for a minimum of five years from date of Owner’s acceptance. All paints shall be evenly applied without pinholes, scratches, orange peeling, application marks, and other imperfections. Workmanship with finishes and formation of letters shall conform to the highest standards of the trade.

4.4 Vinyl Film
All vinyl sheeting shall match exactly the color, finish, and durability of the manufacturers product as noted. Unless otherwise noted, all vinyl sheeting shall be installed in strict accordance with the manufacturer’s specifications to provide the highest level of ultraviolet light resistance, weatherability, and overall longevity for both the materials indicated, and the environmental conditions of the final install locations. Vinyl sheeting shall be warranted against color fading, UV damage, delamination, or peeling for a minimum of five years from date of Owner’s acceptance.

All letters forms shall be aligned to maintain a base line parallel to the sign format. Margins must be maintained as specified by sign panel layouts in the drawings. All vinyl cutting shall be executed in such a manner that all edges and corners of finished letter forms are true and clean.

5.0 PROJECT COMPLETION
5.1 Review & Punch List
The Fabricator shall notify both the Owner and Tangram in writing when all work is completed. Upon notice, Tangram will review all work according to their contract with the Owner and prepare a punch list outlining incomplete or unsatisfactory items. All fabricated signs and sign panels must meet the quality and standards of the signs existing on site. The repair or replacement of work outlined on the punch list shall be coordinated between the Fabricator and the Owner. Fabricator shall correct any of the work that is found not to be in conformance at their own expense.

5.2 Final Deliverables
Upon the Owner’s acceptance of the work, the Fabricator shall provide the Owner with a complete service and maintenance manual for all products and finishes installed under their contract. This manual shall include, but is not limited to, product specifications such as manufacturer information, contact names and addresses, warranty information, technical data, and routine maintenance recommendations.

5.3 Warranties
All warranty periods shall begin on the date of the Owner’s acceptance of the work. All warranties shall include the materials and labor required to replace defective components. All installed elements shall be warranted against manufacturer defects for a minimum of one year; and all installed elements shall be warranted against defects in installation or workmanship for a minimum of three years.
BID REQUIREMENTS

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<tr>
<th>SIGN TYPE</th>
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<tr>
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The quality of fit and finish on the final product must meet or exceed the requirements of these design intent documents. Any variations to design, materials, or fabrication methods must be approved by the Owner and Tangram.

Colors shown are for reference only and are subject to the limitations of the printing process. Refer to referenced color systems contained within these drawings for actual specifications.

Scaled examples shown are for reference only and do not necessarily reflect actual site conditions. Detailed site surveys are required prior to fabrication and installation.

All locations shown are approximate. All final locations are to be determined during pre-installation site walk-thrus, prior to sign fabrication and must be approved by Owner.

Messages shown in these drawings are for general reference only. Refer to message schedules for actual required messages.
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NOTE:
Sign message panels are intended to be removable for future change out.
All painted surfaces to receive Matthews Clear Coat MP 42 228SP, satin finish.

C.2 Parking Identification

3/8" countersunk screws.

3/4" x 3/4" x 1/8" structural steel angle welded to beam and mechanically button sign panel to steel angle with countersunk screws.

3/8" countersunk screws.

1/2" notch cut off sign panel.

Pathfinder

ENTER ONLY

2 WT4x10.5 (One W8x21) Steel Wide Flange I-beam, water-jet cut to size and welded together. Paint Subtle Silver Metallic MP46351, satin finish.

Breakaway post mounting detail, see pages 9 and 10.

3/8" aluminum sign panel paint Blue Arys MP92183, satin finish. Applied graphics. 3M™ Scotchprint™ Reflective Graphic Film 690-10 (White).

Paint screwheads Blue Arys MP92183 (Blue).

Paint screwheads Electrum MP12440 (Yellow), satin finish. Applied graphics. 3M™ Scotchprint™ Electrecut™ Graphic Film 7221-197 (Light Navy).

3/8" aluminum sign panel paint Electrum MP12440 (Yellow), satin finish. Applied graphics. 3M™ Scotchprint™ Electrecut™ Graphic Film 7221-197 (Light Navy).

Pathfinder

ENTER ONLY

3/4" x 3/4" x 1/8" structural steel angle welded to beam and mechanically button sign panel to steel angle with countersunk screws.

3/8" countersunk screws.

1/2" notch cut out of sign panel.
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Messages shown in these drawings are for general reference only. Refer to message schedules for actual required messages.

NOTE: All notches have been adjusted to allow for painted surfaces (paint, primer, and clear coat), adjusted for beam/panel thickness to pass through.

NOTE: Sign message panels are intended to be removable for future change out. All painted surfaces to receive Matthews Clear Coat MP 42 228SP, satin finish.

Laramie County Community College (LCCC)  

Exterior Wayfinding Signage  

7 August 2017  

C.2 Parking Identification  

Sheets: 1, 2  

Scale: NTS  

Water-jet cut shapes into panel.  

Cut beam to length.  

Water-jet cut outside shape of the panel.  

8"  

36.8"  

0.5"  

0.925"  

NOTE: All notches have been adjusted to allow for painted surfaces (paint, primer, and clear coat), adjusted for beam/panel thickness to pass through.
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• All locations shown are approximate. All final locations are to be determined during pre-installation site-wide visits, prior to sign fabrication and must be approved by Owner.

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**SIGN TYPE C.2**

**SCALE:** 3/4" = 1'-0"

**SECTION:**

- **WT COLUMN ABOVE (RE: 1\' S1)**
- **(4) \( \frac{1}{2}" \) BOLTS SAE GR. 5**
- **BREAK-CORE PLATES: RE: 1 / S2**
- **WASHER BETWEEN PLATES**
- **KEEPER PLATE RE: A / S2**
- **PIPE STUB BELOW**

**NOTES:**

**CONCRETE ABOVE GRADE TO:**

- **REMAIN SQUARE TO MATCH PIER CAP**
- **DIMENSIONS AND ORIENTATION OF MATCH PLATES**
- **SLOPE FROM EDGE OF BASE PLATE TO EDGE OF FOOTING AT 7°**
- **BE EXPOSED 7/8" FROM HIGHEST GRADE ELEV.**
- **HAVE T.O. CONCRETE AT SAME ELEVATION (FOR TWO COLUMN SIGNS)**

**DETAIL:**

- **SCALE: 1-1/2" = 1'-0"**

**1 SIGN TYPE C.2**

**SCALE:** 3/4" = 1'-0"
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All locations shown are approximate. All final locations are to be determined during pre-installation site walks prior to sign fabrication and must be approved by Owner.

Messages shown in these drawings are for general reference only. Refer to message schedules for actual required messages.

NOTE: All painted surfaces to receive Matthews Clear Coat MP 42 228SP satin finish.
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Example of Existing C.4 Sign Type On-Site
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The quality of fit and finish on the final product will meet or exceed the requirements of these design intent documents. Any variations to design, materials, or fabrication methods must be approved by the Owner and Tangram.

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Messages shown in these drawings are for general reference only. Refer to exchange schedules for actual required messages.

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**DESIGN CRITERIA:**

Building Code: 2012 IBC

Dead Load: Sign Panel = 4 psf (Sign Face Area)

Wind: V= 115 mph, (Cat II) Exposure C, open terrain

Snow: N/A

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**ASSUMED:**

Area (Pole & Fixtures) = 19 sf

Area (New Sign) = 2.625 sf

Weight (Pole) = 240 lbs

Weight (Fixtures) = 100 lbs

Total (Existing) = 340 lbs

Total (New Sign) = 4 psf * 2.625 sf = 10.5 lbs

Moment Comparison:

350.5 lbs / 340 lbs = 1.031 => 3.1% increase < (5%)

8.92 k-ft / 8.83 k-ft = 1.01 => 1% increase < (10%)

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**SIGN PANEL**

BY COMPARISON, EXIST. FOOTING, ANCHOR BOLTS ETC. O.K.

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**DETAIL A**

**SIDE VIEW B**

**SECTION C**

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**NOTE:**

**ASSUMED (VERIFY):**

30’-0” RTS POLE

BASE DIM = 8.5”

TOP DIM = 4.5”

WALL = 11 GA

TAPER = 0.071” / FOOT

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**SIGN TYPE C.4 RE: SHOP DRAWINGS**

**LIGHT POST**

**BAND-IT BAND AND BUCKLE**

**BAND-IT BRACK-IT**

**SIGN PANEL**

**BAND-IT, SS, SINGLE BOLT FLARED LEG BRACK-IT**

**SPACER TO ACCOUNT FOR POLE TAPER**

**3/16" SS "BAND-IT" STRAP**

**3/16" SS "BAND-IT" EAR LOKT BUCKLE**

**BAND-IT, SS, SINGLE BOLT FLARED LEG BRACK-IT**

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TANGRAM DESIGN, LLC | 820 SANTA FE DRIVE DENVER, COLORADO 80204 | (303) 777-8878

Laramie County Community College (LCCC)

SIGN TYPE C.4 Parking Identification

SHELDON MARSHALL

ENGINEERING

CHECKED by.....................................................

ENGINEER.....................

SIGN TYPE C.4 (RE: SHOP DRAWINGS)

SIGN TYPE C.4 Parking Identification

8/22/16 (FASTENER)

3/21/16 (NO CHANGE)

3/9/16

6/22/16 (FASTENER)

4/9/16 (FOR CONSTR.)

SIGN TYPE C.4 (RE: SHOP DRAWINGS)

S1

C

SIDE VIEW

SCALE: 1-1/2" = 1'-0"

DETAIL

SCALE: 1-1/2" = 1'-0"

SECTION

SCALE: 1-1/2" = 1'-0"

DRAWINGS)

B

SIGN TYPE C.4 RE: SHOP DRAWINGS

S1

C

SIDE VIEW

SCALE: 1-1/2" = 1'-0"

DETAIL

SCALE: 1-1/2" = 1'-0"

SECTION

SCALE: 1-1/2" = 1'-0"

DRAWINGS)
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NOTE:
Fabricate panel ONLY.
All painted surfaces to receive Matthews Clear Coat MP 42 228SP, satin finish.

1/4" aluminum sign panel painted Blue Abyss MP02103, satin finish and Electrum MP12440 (Yellow), satin finish. Applied graphics, 3M™ Scotchcal™ Electrucut™ Opaque Graphic Film 7725-10 (White).

Locations of screw holes on to be field verified on existing panel.
NOTE: The fabricator is to only build the sign panels for sign F.2-01. The design intent for sign type F.2 has been included only as a reference for the fabricator.
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Existing F.2 Sign. Panels to be replaced on this sign.
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NOTE:
All painted surfaces to receive Matthews Clear Coat MP 42 2285P, satin finish.

1/8" breakform aluminum panel. Paint Blue Abyss MP02103 and Electrum MP12440 (Yellow), satin finish.

1" bent return at both ends of panel to close gap to building.
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- Scale: 1 1/2" = 1'-0"
- Scale: 1/2" = 1'-0"

Sign Panel Text

5" thick acrylic water-jet cut letters mounted flush to aluminum panel with threaded blind studs and nuts. Paint Verizon White MP27386.

2" x 2" square aluminum tube with capped ends painted Subtle Silver Metallic MP46351, satin finish. Blind attachment to aluminum panel.

PVC French Cleat. Drop-in anchor and bolt.

PVC French Cleat.
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NOTE: Attachment details for sign type F.4A have been included as a reference for the fabricator.
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All locations shown are approximate. All final locations are to be determined during pre-installation site walk-thrus, prior to sign fabrication and must be approved by Owner.

Messages shown in these drawings are for general reference only. Refer to message schedules for actual required messages.

NOTE:
All painted surfaces to receive Matthews Clear Coat MP 42 228SP, satin finish.

The quality of fit and finish on the final product must meet or exceed the requirements of these design intent documents. Any variations to design, materials, or fabrication methods must be approved by the Owner and Tangram.

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NOTE: Attachment details for sign type F.4B have been included as a reference for the fabricator.
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NOTE: There is one existing F.3A sign and five existing F.3B signs that require a filler panel between the sign and the building soffit. Filler panels are intended to prevent students from hanging on the back of the sign. Filler panels may vary size for each sign. Fabricator must field verify the size of the filler panels for each sign.

NOTE: Size of filler panel may vary between signs. Field verify size of filler panel for each sign indicated.

All painted surfaces to receive Matthews Clear Coat MP 42 228SP, satin finish.
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These documents are intended to illustrate design intent and should only be used as a general guideline. All locations shown are approximate. All final locations are to be determined during pre-installation site walk-thrus, prior to sign fabrication and must be approved by Owner. Detailing and information contained on these pages shall not be reproduced, copied, or utilized except for the specific project for which they were created, without previous written authorization from Tangram Design, LLC.

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DATE: 08/07/17

Laramie County Community College
Exterior Wayfinding Signage Location Plan

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<thead>
<tr>
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<td>F.2 Freestanding Building Identification</td>
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Sign Location Plan
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<th>DESCRIPTION</th>
<th>MESSAGE</th>
<th>NOTES</th>
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<td>SIDE B</td>
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### Message Schedule

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</table>
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<th>SIDE B</th>
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