## Campus Design Standards

### 10400 – Signage

![University of San Diego](image-url)

<table>
<thead>
<tr>
<th>Department</th>
<th>Name</th>
<th>Signature</th>
<th>Date</th>
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<tbody>
<tr>
<td>PDC Manager</td>
<td>Myles Morris</td>
<td></td>
<td>7/9/2019</td>
</tr>
<tr>
<td>PDC Director</td>
<td>Zack Knipe</td>
<td></td>
<td>7/9/2019</td>
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<tr>
<td>Facilities AVP</td>
<td>André Hutchinson</td>
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<td>7/9/2019</td>
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<tr>
<td>Operations VP</td>
<td>Ky Snyder</td>
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<td>7/9/2019</td>
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<tr>
<td>University Design</td>
<td>Mary Whelan</td>
<td></td>
<td>7/9/2019</td>
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<tr>
<td>Director Building Maintenance</td>
<td>Robert Brauer</td>
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<td>7/9/2019</td>
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</table>
10400 – Signage

Introduction

Signage includes both interior and exterior signs or lettering that are project specific, as well as campus wide sign systems used for wayfinding and information. The preferred source for new exterior signage is Bandon Industries. The preferred source for new construction interior signage is Elevate by Apco or Custom USD Signage designed by Harmon Nelson. All signage is required to be approved by Planning, Design and Construction.

Contacts

1. The Project Manager (Planning, Design and Construction)

Index of References

1. USD Master Plan Design Guidelines
2. Exterior Signage Details
3. Standards for Room Numbering

Code/Sustainability References

1. California Building Code
   1. LEED Silver (Pursuit of certification on a project by project basis)
   3. California Fire Code

Review Guidelines

Documentation for interior signage typically occurs in the Construction Document Phase of the project. If the Project Manager determines that a signage consultant independent of the architectural firm will be used, then signage is to be shown on plans specifically for this coordination purpose. If the architect is responsible for the signage design, then it is to be included in the Construction Document package.

Procedural Guidelines

The Project Designer is to consult with the Project Manager to ensure that the campus room numbering committee has provided the desired numbering scheme. Additionally, the room numbering plan represented in the drawings must reflect the final configuration for the space. This will prevent arbitrary numbering that may change by the end of the project.
University of San Diego – Design Standards Manual

To facilitate and establish room numbers, the Designer shall meet with the University Design team prior to the Construction Document Phase. While in development, Designer is to review plans with the Project Manager.

In final design, a sign schedule is to be created with sign types listed on a room-by-room basis and floor plans keyed into schedule. Designer is to provide elevations that show mounting heights and relative locations of sign types for pricing and installation purposes.

Various sign types currently in use on campus have been discontinued by the manufacture. For small TI projects salvage inventory may be available. To be confirmed with the project manager. On all projects confirm with the project manager whether the existing signage should be salvaged prior to demo.

Guidelines for Installation and Performance

1. Room number signage is to be considered permanent and should comply with ADA and required building code. Names that may be attached or inserted as part of a room number sign should be easily adaptable and changeable.
2. Interior Signage is typically installed using a silicone sealant, with double-faced foam tape for temporary adhesion.
3. Exterior Signage is typically installed with concealed fasteners, unless approved otherwise. Through-bolts are not permitted without permission and anchor bolts are typically used on masonry.
4. Building identification should be coordinated with the Project Manager.
5. Housing Signage – Designer is to meet with Project Manager to coordinate locations.

Guidelines for Room Numbering

For maintenance purposes, the University requires individual room numbering at all spaces.

1. Interior Room Doors
2. Final building or room numbering shall be incorporated into the design documents.

See Appendix 10.2 for General Guidelines.

Types of Signage

Applicable signage style to be coordinated with USD Project Manager:

1. Exterior Signage Types
   a. Stop Sign
   b. Street Sign
   c. Informational Signage
   d. Building Monument Signage (See Appendix 10.1a-b)
2. Interior Signage Types
a. Interior Directory and Directional (Harmon Nelson Design/ APCO/ Stenciled or approved alternate)
b. Interior Directional – changeable insert (Harmon Nelson Design/ APCO)
c. Room Identification – changeable insert (Harmon Nelson Design/ APCO)
d. Restroom Flag Sign (Harmon Nelson Design)
e. Elevator Flag Sign (Harmon Nelson Design)
f. Restroom Identification (Harmon Nelson Design)
g. Stair Identification – inside stairwell (Harmon Nelson Design)
h. Emergency Evacuation (Harmon Nelson Design)
i. Maximum Occupancy (Harmon Nelson Design)

3. Donor Signage Types
   a. Harmon Nelson Design/Stencil/etched on tile or approved alternate

4. Specialty Signage - to be coordinated with the Office of University Design

Materials and Products

1. Precast Concrete
   a. Provide precast concrete elements as described in the design drawings. All precast elements shall use an integral colored concrete to achieve a crème color to match the architecture.

2. Cast Stone
   a. Where noted on drawings provide Cast Stone elements that meet the latest requirements of ASTM C33. The mixtures are proportioned for maximum density and to produce the required "fine grained texture similar to natural stone with no bug-holes permitted." Follow the Cast Stone Institute's latest recommendations for molding, material mixes, and casting methods.

3. Wrought Iron
   a. Provide artisan quality wrought iron in shapes and sizes as described in the design drawings.

4. Faux Wrought Iron
   a. Provide artisan quality faux wrought iron in shapes and sizes as described in the design drawings. Faux materials may include cast metal or resin, painted to match wrought iron.

5. Quarry Tile
   a. Face concrete bases with quarry tile as described in the design drawings. All edges and corners shall be mitered and eased. Exact tile is to be coordinated with the Office of University Design

6. Aluminum Plate
   a. For exterior surfaces of sign, provide ¼" flat panel (not rolled stock), alloy #3003, H14 mill finish or as required to meet fabrication or engineering requirements.

7. Aluminum “U” Channels
a. Provide aluminum of the necessary shape, wall thickness and alloy to meet fabrication, engineering, and code requirements.

8. Hardware
a. Provide and install all incidental hardware necessary for the proper functioning of the sign. Hardware shall be stainless steel.

9. Fasteners
a. Exposed fasteners shall be permitted only where specifically stated in the Drawings, and shall be stainless steel and painted, or finished to match adjacent surfaces (unless otherwise specified).

10. Vinyl
a. Shall be 3M premium grade vinyl unless otherwise specified, with a minimum five (5) year exterior and seven (7) year interior guarantee.
Appendix 10.1 – Exterior Signage Details

10.1a – Small Monument Sign

EXISTING SM. MONUMENT SIGN

NEW 12 x 12 TILE W 1/8" GROUT

4" LOGO

2" TYPE

Department of Public Safety
Visitor Information

SIGN #3 – Hughes Center

1"=1'-0"
10.1.b - Large Monument Sign
10.1c – Wall-Mounted Sign

ELEVATION

SECTION

WALL MOUNTED SIGN

AT T-140"
10.1d – Sign Poles
Pole
Brandon Industries
SPS4X5-0 DB
Aluminum POL 6005-T6
4" OD X 6'-0"
Dark Bronze

Base
Brandon Industries
SB-94
Slip Over Base For 4" OD Pole
Dark Bronze

Finial
NIN-B4 DB
Ball Finial For 4" OD Pole
Dark Bronze

Brackets
As Required To Suspend Sign From Poles
Dark Bronze

Street Sign
9"x36" Street Sign Brown Background White Lettering Optimum Font

Stop Sign
30" Stop Sign
Appendix 10.2 – Standards for Room Numbering

General Guidelines

1. See USD Space Committee Website for most up to date room numbering standards https://www.sandiego.edu/space/guidelines/numbering.php

2. All floors should be numbered in consecutive order.

3. A true basement should be numbered from 01-099 unless there are more than 100 rooms which open into the main corridor on the floor. In this case, the rooms should be numbered from 01-0999.

4. The remaining floors should be numbered in the same way. For example, the first floor should be numbered from 100-199, unless there are more than 100 rooms which open into the main corridor on that floor. In this case, the rooms should be numbered from 1000 to 1999.

5. Rooms opening into the main corridor should be numbered with numeric designations. (That is, they should not contain letters of the alphabet.)

Alphabetic designations should be reserved for interior rooms of suites. Suite numbering should start with the letter A and continue in ascending order. The letters I and O should not be used since these alphas are often confused with the numbers 0 and 1.

6. The main entrance to each building level should be numbered 100, 200, 300, etc. depending on the floor level (i.e., main entrance to first floor = 100; main entrance to second floor = 200). This main entrance is usually a lobby or main reception area, generally thought of as the core of the building.

All circulation space (e.g., stairs, hallways, corridors, lobbies) should be numbered consecutively with 1000, 1001, 1003, etc. Second floor 2000, third 3000, etc.

7. Rooms on one wall should be given an even number. Rooms on the opposite wall should be given an odd number.

8. All rooms should be numbered. This includes mechanical space, restrooms, janitors’ closets, telephone closets, etc.

9. For large rooms, considerations should be given for future changes. The room numbering scheme should accommodate this by skipping enough numbers to allow for room divisions.

10. The numbering of parking structures should be handled differently than other buildings. The parking level at ground level would be designated ground level (GL). Those levels below ground level would be designated B1, B2, etc. Those levels above ground level would be designated 1, 2, etc. (Example: a five level parking structure with 2 levels below ground level and two levels above ground level would be numbered: B2, B1, GL, 1, 2.)
Appendix 10.3 - Harmon Nelson Custom Signage Specification

316
Student Leadership and Involvement Center
Student Organizations
Greek Life

All Paint First Surface

2 1/2" H
Numeral higher on panel to accommodate listings

3/4" high copy
Screen print Black
second surface surface

1/2" 1/4"

SIDE
Scale: 3"=1'-0"

ELEVATION
Scale: HALF SIZE
FONT: Optima Medium
Copy shown for reference only. See Graphic Schedule for actual copy.

SIDE
Scale: ACTUAL SIZE

PROJECT:
USD
UC EXPANSION
BLDG SIGNAGE

DATE:
6/17/09

SIGN TYPE:
13
Office ID

D13.0
SEE SHEET D 12.2 FOR COPY LAYOUT GUIDELINES

144
Conference Room B

Copy on insert
Roller bar inset into sign panel
Room schedule by Others + NIC

ELEVATION
Scale: HALF SIZE  FONT: Optima Medium
Copy shown for reference only. See Graphic Schedule for actual copy.
Fill and line sand seams all around

Foam tape or thin acrylic creates space for insert

Roller Bar
Paint to match adjacent panel

144

Conference Room B

Secure to acrylic face with adhesive

Paint mask around circular insert window

1/2"
Minimal
1/8"
1/8"

SIDE
Scale: HALF SIZE

ELEVATION
Scale: HALF SIZE
FONT: Optima Medium
Copy shown for reference only. See Graphic Schedule for actual copy.

SIDE
Scale: ACTUAL SIZE

PROJECT
USD
UC EXPANSION
BLDG SIGNAGE

PROJECT NO.

DATE
6/17/09

SIGN TYPE

14
Conference/Classroom Identification

PAGE NUMBER
D14.1
ELEVATION
Scale: 3" = 1' - 0"
Foam tape or acrylic creates space for insert.

Minimal 1/32” to accept insert by others. Fabricator to ensure insert slides with ease in and out prior to fabrication.

8 1/2”

1/4” 1/8” 1/8” 5/32”

1 1/4”

3/8” 3/8”

Copy on insert

CL of copy and panels

SIDE
Scale: HALF SIZE

ELEVATION
Scale: HALF SIZE
FONT: Optima Medium
Copy shown for reference only. See Graphic Schedule for actual copy.

100
Institute
Offices

16
Room
Identification-
Changeable
Insert

PAGE NUMBER
D16.0
Paint edges all around. Fill and fine sand seams all around.

CL of copy and panels

Scale: HALF SIZE

Copy shown for reference only. See Graphic Schedule for actual copy.
1/4"

12"

5 1/2"

EQ

C of symbol and panel

(21) Screen print

9/25

Paint edges all around.
Fill and fine sand seams all around.

SIDE
Scale: 3"=1'-0"

ELEVATION
Scale: 3"=1'-0"

12"

5 1/2"

2 3/8"

C of symbol and panel

12"

5 1/2"

2 3/8"

Equilateral Triangle

x1" 1 5/8"

Equilateral Triangle

Corners of triangle to line up flush with
eX edge of circle. Size triangle as needed to
conform.
STAIR 3
P1
P2-2
NO ROOF ACCESS

Maximum Line Length: 10 3/4"

12"
2 1/8"
5" 5 3/4"
1 1 1 1 1 1
1 1 1 1 1 1

CL of copy and panels

Paint edges all around.
Fill and fine sand seams all around.

SIDE Scale: 3" = 1'-0"

ELEVATION FONT: Optima Medium
Scale: 3" = 1'-0"
Copy shown for reference only. See Graphic Schedule for actual copy.

HARMON NELSON DESIGN

PROJECT: USD UC EXPANSION BLDG SIGNAGE

DATE: 6/12/09

STAIR IDENTIFICATION

D20.0
University of San Diego – Design Standards Manual

Minimal 1/32" to accept insert by others. Fabricator to insure insert slides with ease in and out prior to fabrication.

Foam tape creates space for insert

1 1/2" 1 1/2" 1 1/2"

1 5"

EVACUATION PLAN LEVEL 2

IN CASE OF FIRE USE STAIRWAY FOR EXIT DO NOT USE ELEVATOR
EMERGENCY PHONE NUMBER: 911 (ADDRESS OF BUILDING HERE)

LEGEND

D21.0 Emergency Evacuation

Verify Exact message with GC

Map artwork to be oriented properly with viewing direction

Fabricator to get final approval from Fire Marshall

Fabricator to site verify location of all alarms, Pull Boxes, Fire Extinguishers, etc.

Fabricator to create all maps using schematic example provided by WND

Fabricator to submit sample maps to WND for approval

Clear

First surface tape mask

First surface tape mask

SIDE
Scale: 3"=1'-0"

SIDE
Scale: ACTUAL SIZE

ELEVATION
Scale: 3"=1'-0"
FONT: Optima Medium

SIDE
Scale: 3"=1'-0"

HARMON NELSON DESIGN
2123 Broadway Studio 201
San Diego CA 92101-19410
(619) 239-3312
(619) 239-3313
harmonnelson.com

PROJECT:
USD UC EXPANSION
Bldg Signage

DATE:
6/17/09

PAGE NUMBER
D21.0
EXIT TO TERRACE

Second surface

Scale: 6"=1'-0"

ELEVATION
Scale: HALF SIZE  FONT: Optima Medium
Copy shown for reference only. See Graphic Schedule for actual copy.

SIGN TYPE
22
Regulatory - Tactile

PAGE NUMBER
D22.0
ELEVATION
Scale: 3"=1'-0"
FONT: Optima Medium
MAXIMUM OCCUPANCY

123

SIDE
Scale: 8"=1'-0"

ELEVATION
Scale: HALF SIZE  FONT: Optima Medium
Copy shown for reference only. See Graphic Schedule for actual copy.
COPY LAYOUT GUIDELINES

1 1/8" CL

1" CL

7/8" 1"

1 1/8"

3 1/2"

1 3/4" EQ, EQ

CL of cap an arrow

Men's Restroom

Women's Restroom

ELEVATION
Scale: HALF SIZE  FONT: Optima Medium

CL LJ

HARMON NELSON DESIGN

2355 Broadway
Suite 101
San Diego CA
92101-1550
619-236-3312
619-236-3313
harmonnelson.com

PROJECT:

DATE:
6/17/00

PROJECT NO:

24
Regulatory - Non-Tactile

PAGE NUMBER:
D24.2

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ALL SIGNS, ALL LOCATIONS TO BE CONFIRMED WITH WND PRIOR TO ANY INSTALLATION

SIGN TYPES 12, 14, 16
Sign panels are pin and epoxy mounted to wall surface

SIGN TYPES 17 & 18
Sign panels are attached to wall with silicone and foam tape

TYPICAL MOUNTING DETAIL FOR SIGN TYPES 12, 14, 16, 17, AND 18

CL of door and sign panel

CL of door and sign panel

SIGN TYPE 19
Sign panels are attached to door with silicone and foam tape

TYPICAL MOUNTING DETAIL FOR SIGN TYPE 19

ELEVATION
Scale: 1/4" = 1'-0"
SECTION 10400

IDENTIFYING DEVICES

1.00 GENERAL

1.01 SCOPE

Sign Contractor shall provide all necessary services, labor, materials, insurance, subcontracts, traffic control & safety devices, and product to fabricate and install all sign and/or graphic items included in the documents which consist of Design Drawings, Location Plans and Specifications.

Principal Items Include:
Submittals/Prototypes
Coordination with Related Trades
Signs and Graphics, Complete and In Place

1.02 CONDITIONS & GENERAL REQUIREMENTS

A. DRAWINGS, DATA & SAMPLE SUBMITTALS:
Submit Shop Drawings, Product Data and Samples for the work to be performed under this contract, within 14 calendar days from Award of Contract. Prototypes to be submitted within 30 calendar days from Award of Contract.

B. ENGINEERING AND CODE REQUIREMENTS (NEC):
Others shall provide all engineering of sign and graphic items including, but not limited to: footings, internal structure, electrical and mechanical parts. All items shall be engineered to satisfy all applicable codes & regulations and shall be stamped by a Structural Engineer and display a wet seal with signature on all drawings submitted for approval and review. The intent is that the signs be removable or relocatable and engineering should reflect this.

C. TIMELINE & SCHEDULE SUBMITTALS:

1. SUBMITTAL SCHEDULE:
Prepare a Schedule of Submittals in coordination with the Contract Schedule for USD’s review. Provide two (2) copies of the Final Schedule when it is accepted.

2. QUANTITY & MEDIA:
Provide three (3) sets of each submittal. The quantity of Samples may vary; review instructions for Samples. Provide three (3) samples of sufficient size and quality to show the full ranges of color, texture and pattern. USD’s Representative will return one sample with review comments. Label the back of each sample with its corresponding color.

Page Number

S1
3. START OF WORK:
Manufacture and fabricate elements based on the review comments from the USD’s Representative. Do not begin without the review and approval comments on that portion of the Work.

4. SHOP DRAWINGS:
Sign Contractor shall provide complete shop drawings in accordance with the Structural Engineer’s calculations and specifications, to scale, of all items showing both exterior and interior construction and full size drawings of all details affecting visible appearance. Sign Contractor shall submit shop drawings to the USD’s Representative for review and approval prior to commencement of fabrication.

5. FORMAT:
Present information required on Shop Drawings in a clear and thorough manner. Reference individual drawings to the details, schedules and page numbers of the Drawings.

6. CONTRACT SCHEDULE:
Submit three (3) copies of the Contract Schedule, in the correct form and having general content acceptable to USD’s Representative, with preliminary draft of the application for payment. No Application for Payment will be processed nor shall any progress payment become due until the Contract Schedule is properly submitted and accepted by the USD’s Representative.

7. FORM:
The Contract Schedule shall be a CPM time scaled, network diagram or bar chart showing continuous flow from left to right. The specific calendar days and dates shall be clearly and legibly shown for the start and finish of each work activity and the critical path shall be clearly shown if a bar chart diagram is used.

8. ACTIVITIES:
A minimum of five (5) days shall be allotted in the schedule for the USD’s Representative to review each submittal.

9. PROGRESS UPDATES:
Prepare and submit to USD’s Representative an updated Contract Schedule once each month; or as mutually agreed. The updated Contract Schedule shall accurately reflect all previously completed and in-progress work activities.

10. COPY PATTERNS:
All sign copy and graphics shown in the documents is for reference only. Sign Contractor shall produce film positives made by photo type position or computer generated method. Large copy shall be enlarged in stages using optical, photographic or computer graphic equipment as required to achieve precise reproduction of all elements. Submit two (2) sets of copy pattern outputs to USD for approval, with sign panel outline shown 2 pt. min. and using old copy. Scale of patterns to be
agreed to with HND prior to output.

11. FINISH SAMPLES:
Submit samples of the surface sheen and treatment of all exposed materials, such as concrete, metal, plastic and vinyl. Submit three (3) samples of each, on an 8" x 8" (min.) material or as approved by HND.

12. HARDWARE SAMPLES:
Submit two (2) samples of all exposed hardware such as glides, hinges, locks and fasteners.

13. PAINT AND SILK-SCREEN INK COLOR SAMPLES:
On 8" x 8" actual material that paint or ink is being applied to, provide three (3) samples of each color or process, to accurately depict the material or process to HND for approval.

14. PAINT MATERIALS:
Submit technical specifications for approval of all proposed paint and finishing materials to meet or exceed the quality of the following:

a. As a primer on galvanized or bare metal surfaces use an etching primer, as recommended by the paint manufacturer.

b. As an undercoat use a primer sealer, as recommended by the paint manufacturer.

c. After proper sanding and cleaning, apply a minimum of two (2) coats of premium quality two-step linear polyurethane, which meets all California VOC environmental requirements.

15. PROTOTYPES:
These must be approved by HND prior to fabrication of any parts, panels or posts, etc. Submit prototypes of any details that may affect design intent/ exterior appearance, such as panel edge treatment or structural connections. Submit one (1) sample of each of the following: Provide: Sign Type 10 - One sample wrought iron detail, Sign Type 12 - One full prototype, Sign Type 14 - One full prototype, Sign Type 15 - One full prototype. Refer to Design Drawing sheets for additional information. HND will keep all prototype submittals.

F. GUARANTEE:

1. All Product and Work shall be guaranteed for one (1) year from acceptance against cracking, crazing, peeling, blistering and other defects in materials and/or workmanship.

2. All vinyl shall be guaranteed for five (5) year outdoor durability.
3. Furnish a one (1) year warranty, warranting that the factory applied linear polyurethane finishes will not develop excessive fading or excessive non-uniformity of color or shade, and will not crack, peel, pit, corrode or otherwise fail as a result of defects in material or workmanship within the following defined limits. Upon notification of such defects, within the warranty period, make necessary repairs or replacement at the convenience of USD.

a. Excessive Fading: A change in appearance which is perceptible and objectionable as determined by USD/HND when visually compared with the original color range standards.

b. Excessive Non-Uniformity: Non-uniform fading to the extent that adjacent panels have a color difference greater than the original range of color.

c. Will Not Pit or Otherwise Corrode: No pitting or other type of corrosion, discernible from a distance of 10 feet, resulting from the natural elements in the atmosphere at the project site.

1.03 TEMPORARY CONTROLS

A. INTERRUPTIONS TO UTILITIES, SERVICES, AND ACCESSSES:
No existing utility services shall be interrupted at any time by the Contractor. Required shutdowns shall be scheduled one to three weeks prior to actual shutdown. The operation of valves, switches, etc. will be performed and paid for by USD.

B. TRAFFIC CONTROL, BARRIERS AND LIGHTING:
Install, maintain and remove all required traffic provisions and safeguards. Provide adequate barriers around the work to define exit ways and limits of the construction area, and to contain dust and debris within the construction area. Maintain warning lights, temporary walkways, traffic controls and the like, as may be required by the USD to give adequate warning and protection for pedestrian and vehicular traffic.

1.04 QUALIFICATIONS

A. QUALIFICATIONS OF SIGN AND GRAPHICS TRADE CONTRACTOR:
Employ a sign and graphics specialist with minimum five (5) years experience in manufacture, fabricate, assemble and install work of this Section, who is able to demonstrate experience and completed project record to the satisfaction of the USD and HND. Submit three (3) copies of three (3) similar completed projects, in size & cost, with contact information for each.

1.05 EXISTING CONDITIONS

A. VERIFICATION OF EXISTING CONDITIONS AND DOCUMENTS
Sign Contractor shall visit the Site to inspect all existing conditions and to verify all dimensions, which are related to the fabrication and/or installation of sign or graphic items. Sign Contractor shall thoroughly review these documents, checking conditions and dimensions shown. Notify HND of any discrepancies in
2.00 MATERIALS AND PRODUCTS

MATERIALS

A. CONCRETE FOUNDATIONS:
Refer to and follow Section 302-6 of the Standard Specifications (1994 Green Book) for public work construction. Unless specified otherwise on drawings, all concrete on the project shall be a standard mix of natural color concrete with a medium pea gravel, minimum 5250 psi. Provide flat, smooth faced metal forms as required in the sizes and shapes indicated on the drawings. Make sure concrete is vibrated well in forms to reduce air pockets.

All concrete will be poured under the supervision of the General Contractor, with 48 hours notice. Concrete will not be re-tempered; concrete cannot be placed if more than 90 minutes old. A mechanical vibrator is required on pours.

The contractor is responsible for protection of work. All work deemed unsatisfactory or damaged will be replaced by the contractor at his expense within ten (10) days of notification by the General Contractor. Contractor will submit a design mix for approval, five (5) days prior to scheduling any concrete pours.

B. PRECAST CONCRETE:
Provide precast concrete elements as described in the design drawings. All precast elements shall use an integral colored concrete to achieve a crema color to match the architecture. All basic conditions in section 2.00A, also apply to this material.

C. CAST STONE:
Where noted on drawings provide Cast Stone elements that meet the latest requirements of ASTM C33. The mixtures are proportioned for maximum density and to produce the required “fine grained texture similar to natural stone with no bug holes permitted.” Follow the Cast Stone Institute’s latest recommendations for molding, material mixes and casting methods.

D. WROUGHT IRON:
Provide artisan quality wrought iron in shapes and sizes as described in the design drawings.

E. FAUX WROUGHT IRON:
Provide artisan quality faux wrought iron in shapes and sizes as described in the design drawings. Faux materials may include cast metal or resin, painted to match wrought iron.

F. QUARRY TILE:
Provide concrete basalt with quarry tile as described in the design drawings. All edges and corners shall be
G. ALUMINUM PLATE:
For exterior surface of sign, provide 1/4" flat panel (not rolled stock), alloy #3003, H14 mill finish or as required to meet fabrication or engineering requirements.

H. ALUMINUM "U" CHANNELS:
Provide aluminum of the necessary shape, wall thickness and alloy to meet fabrication, engineering and code requirements.

I. HARDWARE:
Provide and install all incidental hardware necessary for the proper functioning of the sign. Hardware shall be stainless steel.

J. FASTENERS:
Exposed fasteners shall be permitted only where specifically stated in the Drawings, and shall be stainless steel, and painted or finished to match adjacent surfaces, unless otherwise specified.

K. STAINLESS STEEL ITEMS:
Provide a low carbon content stainless steel, alloy #302 or #304 of 18 gauge or thickness as necessary. If decorative or readily visible, verify finish and direction of grain with HND or as stated on the Drawings.

L. VINYL:
Shall be 3M premium grade vinyl unless otherwise specified, with a minimum five (5) year exterior and seven (7) year interior guaranteed.

M. LIGHTING & ELECTRICAL (NIC By Others)

2.02 FABRICATION

A. GENERAL REQUIREMENTS:
If applicable Contractor shall provide and pay for underground locator service to identify all subsurface utilities prior to start of excavation.

B. POST AND PANELS:
All posts and panels shall have minimal seamed construction with all joints finished smooth. No exposed fasteners shall be used except for access panels where approved to be attached with pan head screws painted to match adjacent surface material. To prevent corrosion due to electrolysis on metal signs, separate all ferrous and non-ferrous metals with neoprene or vinyl spacers, and stainless steel fasteners.

C. COPY APPLICATION:
The Project Alphabets are AdobeTM fonts and shall be used for all copy applications, except as otherwise
noted on the Drawings. All letter forms shall follow these alphabets, and the size and placement of copy shall follow the dimensions and spacing indicated on the Design Drawings and/or approved copy patterns. Letter spacing shall conform to standards shown and termed optically to the acceptance of HND. Lines of copy shall be straight and parallel to the sign format, unless otherwise specified. Edges of letters, number and symbols shall be smooth and continuous, with straight and curved portions reproducing the original forms exactly, with corners sharp and true. Pay particular attention to rounded letter forms, as these extend slightly above and below the normal line of copy. All forms shall be free of ticks, line waiver, discontinuous curves and other imperfections.

3.00 EXECUTION

3.01 FINISHING:

A. PAINTING:

Surfaces of all items requiring a painted finish shall be properly prepared. Tool marks and other imperfections shall be filled and sanded or buffed out. Joint filler shall be sanded flush and smooth. Clean surface before applying paint or letter by removing all chalk, dust, dirt, grease and oil. Sufficient primer coats or undercoats shall be applied to achieve a smooth and uniform surface. All painted items shall be spray painted, following the paint manufacturer’s recommendation concerning thinning and application. Apply additional coats when undercoats, stains or other conditions show through the color coat of paint, until paint is of a uniform finish, color and appearance.

PANELS:

1. Linear Polyurethane Paint: Provide pre-treatment and primer in accordance with manufacturer’s recommendation. Add ultra-violet inhibitors to paint subject to sunlight exposure.

2. Clear Linear Polyurethane Finish: Provide pre-treatment, primer and finish coat in accordance with manufacturer’s recommendation. Apply 1.5 to 2 mils to dry film thickness.

B. INDIVIDUAL CUT-OUT LETTERS:

Provide individual cut-out letters from acrylic, aluminum or stone in thickness and colors as noted on the Drawings, Computer Laser Cut or Water Jet Cut as provided by SteelArts, Boston, MA or equivalent. The edges of all letters shall be fine sanded smooth without imperfections to match the face surface/texture or as noted on Drawings.

3.02 INSTALLATION

A. JOB CONDITIONS:

Installer shall examine the site condition, structures, the substrata and all other conditions under which the specialty signs are to be installed, and submit notes of Conditions detrimental to the proper and timely completion of the Work. The Work shall not proceed until satisfactory conditions have been corrected.
B. EXCAVATION:
Excavate for foundations as required, under the direction of the General Contractor.

C. SIGN INSTALLATION:
Shall be carried out in a neat and proper manner equal to the finest quality standards of the industry.

D. LOCATION DRAWINGS:
Shall be followed when installing signs and graphic items. Item numbers, which are found in the Documents, identify specific sign units, their locations and orientations. Drawings show general location for each sign. Specific locations shall be determined by walking the Site with USD's Representative and HND. Sign Contractor shall provide removable numbered water-resistant stakes or labels as applicable for each sign to be placed at time of walk-through. Double stake to indicate the orientation to roadway. Sign Contractor shall also field measure selected locations and note dimensions on their plan, should stakes be accidentally removed prior to installation.

E. INSTALLED SIGNS:
Shall be clean, properly aligned, level and true to line and dimension, flush to surface or as detailed and specified, free of excess visible adhesive, if used. Damage to sign or surrounding surfaces or other imperfections will not be accepted. Any code required labels and shut-off switches to be on exterior of sign shall be concealed from normal viewing and all other labels shall be located inside the sign enclosure.

F. PIN FASTENERS:
Where pins or other mechanical fasteners are used, also provide silicone or epoxy adhesive to prevent unauthorized removal of signs. All fasteners, structures and units must be structurally sound and comply with all applicable code requirements and restrictions, including state seismic regulations.

G. PROTECTIVE MATERIALS:
All wrappers, coverings, identifying stickers, papers, etc., shall be removed from the sign itself and the Site at the completion of installation.

3.03 FINAL CORRECTIVE WORK
Damage to signs or surrounding surfaces shall be repaired to the satisfaction of the USD, at no additional cost to the USD and disposed of off-site. Contractor use of USD dumpsters is prohibited.

3.04 CLEANING AND PROTECTION
A. During the process of work, remove daily all discarded materials, rubbish, cans, rags, etc., from the Site.
B. Upon completion of painting, clean or repaint all paint splattered signs and adjacent surfaces. Remove splattered paint by proper methods of washing and scraping, using care not to scratch or otherwise damage finished surfaces.

C. At completion of installation, clean all sign surfaces in accordance with manufacturer's instructions. Protect units from damage until acceptance by the USD/HND. Repair or replace damaged units as directed at no additional cost to the USD.

Sign Contractor shall:

1. Check all items for correct placement.
2. Clean, oil and/or polish as recommended by manufacturer’s instructions.
3. Remove all crating debris from the Site and leave premises in clean condition.
4. Take special precautions to protect finishes.
5. Clean sign material using only cleaners and methods in accordance with the manufacturer’s instructions.
6. Repair and repaint building surfaces, which are damaged by Sign Contractor’s workers as a result of installation of sign items.
SPECIAL ISSUES

It is the fabricator's responsibility to thoroughly review the signage package. The signage package consists of design drawings, signage schedule and location plans. Notify the Client and Harmon Nelson Design, Inc. of any discrepancies.

All code required elements for this project must be completed and installed by March 31st.

All of the signage in this package are to match the signage in the Joan Kroc Institute for Peace and Justice as described below. Discrepancies between the drawings and the existing signage should be clarified with Harmon Nelson Design, Inc. prior to fabrication.

- All paint colors, sheens and finishes are to match exactly.
- The lightweight cement needs to be of the same mixture and finish as the existing signs.
- The existing concrete backer panels were cast by Quickcrete, which has retained the molds for future use. Please contact Rick Croc 909-737-6240 for information.

The signage in this package should not match the signage in the Joan Kroc Institute for Peace and Justice in the following manner:

- Fabrication Material #7 (faux wrought iron) is to be cast from resin as a single element, not an individual pieces as evident in the existing signage.
**SIGN TYPE LIST**

**INTERIOR SIGN TYPES**

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>(NOT USED)</td>
</tr>
<tr>
<td>11</td>
<td>Interior Directional</td>
</tr>
<tr>
<td>12</td>
<td>Department Identification</td>
</tr>
<tr>
<td>13</td>
<td>Office Identification</td>
</tr>
<tr>
<td>14</td>
<td>Conference/Classroom Identification</td>
</tr>
<tr>
<td>15</td>
<td>Primary Flag Sign</td>
</tr>
<tr>
<td>16</td>
<td>Room Identification - Changeable Insert</td>
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<tr>
<td>17</td>
<td>Room Identification - Permanent</td>
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<tr>
<td>18</td>
<td>Room Identification - Room Number Only</td>
</tr>
<tr>
<td>19</td>
<td>Restroom Identification</td>
</tr>
<tr>
<td>20</td>
<td>Stairwell Code Sign</td>
</tr>
<tr>
<td>21</td>
<td>Emergency Evacuation</td>
</tr>
<tr>
<td>22</td>
<td>Regulatory - Tactile</td>
</tr>
<tr>
<td>23</td>
<td>Vinyl Letters &amp; Symbols</td>
</tr>
<tr>
<td>24</td>
<td>Regulatory - Non Tactile</td>
</tr>
</tbody>
</table>

*HARMON NELSON DESIGN*

2323 Broadway
Studio 301
San Diego CA 92102-1950
(619) 239-2312
(619) 239-2313
harmonnelson.com

**PROJECTS**

<table>
<thead>
<tr>
<th>USD</th>
<th>UC EXPANSION</th>
</tr>
</thead>
</table>

**DATE**

6/17/00

**SIGN TYPE LIST**
### Fabrication Materials

1. Stucco applied over concrete masonry block - verify finish.
2. Pre-cast Concrete - verify finish (integral creame color).
3. Tile - Red quarry tile applied to concrete masonry block.
4. Clear non-glare acrylic
5. Aluminum letters, 1/2" thick. Paint all around color as described. Attach to surface with pins and epoxy.
6. Wrought iron - combination of tube and flat stock, painted all around.
7. Faux wrought iron - Cast resin faux painted all around

**Bid Alternate 1** - High density foam

**Bid Alternate 2** - Foam, wood or some alternate means achieving the shape as described and finished to match exterior cast concrete.

### Fabrication Materials Continued

9. Acrylic
10. Sheet aluminum primed and painted all around
11. PVC pipe painted all around. Cap ends as shown with minimal seam
12. Stainless steel aircraft cable
13. Tactile copy with brailie. Exterior grade at outside conditions. Conditions that occur on clear non-glare Garvotac/Router method and clear brailie beads plug mounted into sign surface.

**NOTE:** All panels to have eased corners and edges all around.

### Paint Colors

<table>
<thead>
<tr>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>Terra Cotta - To match Frazee Burnt Copper #8355D</td>
</tr>
<tr>
<td>22</td>
<td>Light Project Color</td>
</tr>
<tr>
<td>23</td>
<td>Bronze</td>
</tr>
<tr>
<td>24</td>
<td>Metal work color - To match Frazee Pumpernickle</td>
</tr>
<tr>
<td>25</td>
<td>To Match Cast Plaster color</td>
</tr>
<tr>
<td>26</td>
<td>To match existing monument casting color</td>
</tr>
</tbody>
</table>

### Vinyl Colors

<table>
<thead>
<tr>
<th>Color</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>Light Project Vinyl</td>
</tr>
<tr>
<td>32</td>
<td>Dark Project Vinyl</td>
</tr>
<tr>
<td>33</td>
<td>Blue</td>
</tr>
<tr>
<td>34</td>
<td>Terra cotta - Flood coat to match Project Terra Cotta</td>
</tr>
</tbody>
</table>

### Key Notes
PROJECT FONTS
NOTE: Fonts shown throughout these documents are for reference only and do not exactly match those called out below. Please use the fonts named below as purchased from the foundries named below.

Optima Medium - www.adobe.com
ABCDEFHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

University Roman Bold - www.bitstream.com
1234567890
abcdefgijklmnopqrstuvwxyz

Americana Bold - www.adobe.com
ABCDEFHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

PROJECT ARROW

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PROJECT:
USD
UC EXPANSION
BLOG SIGNAGE

DATE:
6/17/09

PROJECT
FONTS &ARROW

PAGE NUMBER
III
Institute Offices
Production Studio
Fine Art Galleries
Reflection Room

Elevator & Stairs
Conference Rooms A-G
Restrooms

DIRECTORY

Room Numbers:
- Conference Rooms A - G
- Conference Rooms H - L
- Classrooms
- Emphasis of History
- Department of Political Science
- Fine Art Galleries
- Institute Offices
- Communication Center
- Reflection Room
- Peace & Justice Studies
- Production Studio

ELEVATION

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

FONT: Optima Medium
Copy shown for reference only. See Graphic Schedule for actual copy.

PAGE NUMBER
D10.0


→ Institute Offices
  Production Studio
  Fine Art Galleries
  Reflection Room

← Elevator & Stairs
  Conferences Rooms A-G
COPY LAYOUT GUIDELINES

3 1/4" 
1/4" 
E0.00

Conference
Rooms H-1
Mediation Center
Classrooms 229,230,

CL of cap an arrow

Department of History
Department of Political Science

4"
1"
1 1/2" line wrap
2 3/4" related destinations
3 1/4" unrelated destinations

ELEVATION
Scale: 1 1/2"=1'-0"
FONT: Optima Medium
Copy shown for reference only. See Graphic Schedule for actual copy.

D11.1
Institute Offices Reception Area
Copy is laserjet printed on clear heavy weight acetate by others.

Copy shown for reference only. See Graphic Schedule for actual copy.
Single Occupant Restroom Signage