SECTION 04 20 00 – UNIT MASONRY

PART 1: GENERAL

1.01 Scope of Standard

A. This standard provides general guidance concerning the specific preferences of the Texas State University for manufactured units of masonry, both load bearing and non-load bearing.

B. Texas State University recognizes that project conditions and requirements vary, thus precluding the absolute adherence to the items identified herein in all cases. However, unless there is adequate written justification, it is expected that these guidelines will govern the design and specifications for Texas State University projects.

1.02 Design Guidelines

A. Unity Through Design Expression: San Marcos Campus

1. As the major design tool in the creation of unity among Texas State University campus buildings, employ brick masonry as the predominant exterior building material, with stone or precast concrete door and window lintels/sills, and with stone or precast concrete floor articulated courses. Refer to the 2006-2017 Master Plan for design guidelines.

2. The strength and appeal of this basic material are universal. Repeat the use of face brick of tan color and of velour texture to match brick masonry of recently constructed Texas State University buildings.

B. Unity Through Design Expression: Round Rock Campus

1. As the major design tool in the creation of unity among Texas State University-Round Rock campus buildings, employ brick masonry and chopped limestone as the predominant exterior building material.

2. Repeat the use of face brick of tan color and chopped limestone, with punched windows, to match the character of the Avery Building.

C. Brick Masonry Approval

1. Early in the construction phase, before the material is installed, secure University approval of samples and sample panels of actual brick, or other material, proposed for installation on the new building’s exterior walls.
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2. Contractor shall be required to construct a sample panel (8’ L. X 6’ H. minimum) showing brick and mortar color and any other materials (stone, plaster, cap flashing, window, etc.)

3. The contractor shall allow a minimum 6 weeks review rework and approval of the sample panel before ordering brick.

4. Locate in full sun & as directed by Texas State University representative.

5. Mock up will be constructed no later than 3 months prior to needing masonry delivered to the construction site.

6. Deviation from Brick. If, in the design of a new building, the architect proposes a deviation from the brick masonry envelope described above, Texas State University must approve such deviation in writing

1.03 Reference Standards

A. Reinforced Grouted Brick Masonry, Masonry Institute of America

B. Masonry Veneer (Second Edition), Masonry Institute of America

C. Reinforced Masonry Engineering Handbook (Fifth Edition Updated), Masonry Institute of America.

D. 1997 Masonry Codes and Specifications, Masonry Institute of America

E. Reinforcing Steel in Masonry, Masonry Institute of America

F. Technical Notes on Brick Construction, Brick Industry Association

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PART 2: PRODUCTS

2.01 Brick Veneer:

A. San Marcos Campus:

1. Brick: To match Acme Brick Company “Doeskin Elgin 186” blend-modular, velour texture (Project Code 151860121)

   a. To be used only as accent brick course(s) on perimeter brick monument signs and fence columns.

B. Round Rock Campus: (Avery Building)

1. Brick: To match “Painted Desert #230”, Velour face, as manufactured by Acme Brick (Project Code 152300121)-modular.


C. Consultant shall arrange to bring brick supplier into the design process early to verify any new developments in brick production that may impact brick unit appearance or delivery.

D. New masonry used in renovation work is to match the masonry of the existing building.

E. Grout: Coordinate color of mortar with the Texas State University project representative. Use only a pre-mixed mortar, with no calcium chloride admixtures.


F. Repointing should occur in advance of cleaning, unless authorized by Texas State University project representative.

2.02 Sign Letters
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1. The “Texas State University” letters are 8” high, all upper case, Times Bold, font, 1” return, dark bronze anodized aluminum, water jet cut.

2. The “Established 1899” letters are 4” high, all upper case, Times Bold, font, 1” return, dark bronze anodized aluminum, water jet cut.

2.03 Perimeter Campus Brick Columns (San Marcos): Refer to Exhibits 1 & 2

2.04 Perimeter Campus Brick Monument Signs (San Marcos): Refer to Exhibits 1-10.

2.05 Sealer: Same as sealer under Unit Masonry Cleaning & Restoration

PART 3: EXECUTION: (NOT USED)

END OF SECTION 04 20 00
Exhibit 1:

Sheet No. 2
Exhibit 1A

(Varies)

Cast stone, Continental cast stone,
#1101-T, "Greystone".

Center line of Fence Knuckle must align with center line accent brick

Acme Brick, Accent Brick
Acme Brick, blend 186.

Cast Stone, Continental
Cast Stone, #1101-T "Greystone".

Brick Mortar:
1. Spectrum, Eldridge "Buff".

Cast Stone Mortar:
1. Spectrum, Eldridge "Khaki".

Brick Column Elevation
No Scale

Notes:
1. All Brick Joints 3⁄8" high.

Title: Campus Perimeter Campus Brick Columns Only
File updated: 5/28/2013  Plot Date: 6/6/2013
File name: Brick_Column_Standard
Exhibit 1A:

Column Cap Detail

1/2" = 1'-0"
Exhibit 3:

Plan View
Scale: 1/4" = 1'-0"

3 Lights
KLM lighting, #4348/133T8/BL/FH48/SM188L

Cast stone cap
Landscape bed

Fit angle to site conditions

Line of cast stone in brick

Sheet No.: 1 of 12

Title: Campus Standard Small Monument Sign
File name: StandardMonumentSign1.dwg

Revised Jan-15 Unit Masonry-04 20 00-8
Exhibit 4:

Plan View
Scale: 1/4" = 1'-0"

Title: Campus Standard Large Monument Sign
File updated: 6/6/2013
Plot Date: 6/6/2013
File name: StandardMonumentSign1.dwg

Sheet No.: 2 of 12

Revised Jan-15

Unit Masonry-04 20 00-9
Exhibit 7:
Exhibit 8:

Wall Section A

Scale: 3/4" = 1'-0"

Brick Legend:

1. Acme Brick, Blend 186, "Doeskin", code 151860121.
Exhibit 9:

Wall Section B

Scale: 3/4" = 1'-0"

5
Exhibit 10:

- Precast Column Cap
- 8" C.M.U. Face Brick
- Horiz. Masonry Reinf. @ every 16" O.C.
- Cast stone
- Proposed grade
- 1 1/2" reinforcing bars, refer to structural design.
- Weep holes at every head joint w/ cement wash
- Dampproofing
- 17 Courses 3 1/2" ACME Accent Brick
- 3' 8"
- 4' 4"

Column Section

Scale: 3/4" = 1'-0"
EXHIBIT 11:

Cast stone, Continental cast stone, #1101-T, "Greystone".

Elevation

Plan

Precast Column Cap

Scale: 1" = 1'-0"
Exhibit 12:

Cast stone, Continental cast stone, #1101-T, "Greystone".

Elevation

Field verify radius of wall for cap dimension

Plan

Precast Wall Cap A

Scale: 1" = 1'-0"

Revised Jan-15
Unit Masonry-04 20 00-17
Exhibit 13:

- Cast stone, Continental cast stone, 
  #1101-T, "Greystone".

- Field verify radius of wall for cap dimension

Precast Wall Cap B
Scale: 1" = 1'-0"
Exhibit 14:

Wall Section C

Scale: 3/4" = 1'-0"

Precast Wall
Cap
Preferred grade location

Planter
Cast stone
8" C.M.U.

1'-0 1/2"
1'-0 1/2"
1'-2 1/2"