O-07 (1)  The following conditions were observed at the exterior stairs at the northwestern corner of Flawn Sciences Building which may be a part of a means of egress, therefore, shall conform to Section 504 for conformance with Section 210.1 - "Interior and exterior stairs that are part of a means of egress shall comply with 504."

a. Both the handrails on the ends of the stairs and both the intermediate handrails were located 32" to 33" above the stair nosing to the top of the gripping surface; however, shall be 34" minimum and 38" maximum vertically above stair nosings measured the top gripping surfaces for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

b. The rectangular shaped intermediate handrails provided a perimeter dimension of 18-1/2" with a cross-section dimension greater than 2-1/4"; however, handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4" minimum and 6 1/4" maximum, and a cross-section dimension of 2 1/4" maximum for conformance with Section 505.7.2 - "Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum."

c. The top handrail extensions on the building side (southern side) of the stairs did not return to a wall, guard, or landing surface which does not conform to Section 505.10.2 - "...Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

d. The bottom handrail extensions at both ends of the stairs did not return to a wall, guard, or landing surface which does not conform to Section 505.10.3 - "... Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

e. The circular handrails at the bottom tread on each side of the stairway sloped 9" beyond the bottom tread; however, since the treads were 14" deep, they did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."
The non-circular, rectangular shaped intermediate handrail extensions extended 9" beyond the bottom tread; however, since the treads were 14" deep, they did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

A running slope of 3.5% was provided at auto double doors entering Multidisciplinary Studies within the 60" deep minimum approach depth depicted in Table 404.2.4.1; however, slopes of 1:48 (2.08%) maximum are allowed for conformance with Section 404.2.4.4 Exception 1 – “Slopes not steeper than 1:48 shall be permitted.” [Safe Harbor Eligible]*

A 1-1/4" wide gap was provided between the concrete and brick paver band creating shear changes in level with varying heights up to 7/8"; however, walking surfaces with changes in level between 1/4" high minimum and 1/2" high maximum must be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 403.4 - "Changes in level shall comply with 303."

The ramp system accessing the University Center exterior dining area provided handrail extensions which turned 90° on the exterior side of both the top and bottom of the ramp; however, handrail gripping surfaces shall extend beyond and in the same direction of ramp runs for conformance with Section 505.10 – “Handrail gripping surfaces shall extend beyond and in the same direction of stair flights and ramp runs in accordance with 505.10.”

The University Center lower level exterior dining area provided fixed dining surfaces with 22 total seating spaces amongst the different tables. Of these dining surfaces, none observed to be intended accessible seating as the table’s lower support bar does not allow for compliant knee and toe clearance (30” wide minimum); however, where dining surfaces are provided for the consumption of food or drink, at least 5% of the seating and standing spaces at the dining surfaces shall comply with Section 902 (i.e. clear floor space, etc.) for conformance with Section 226.1 – “Where dining surfaces are provided for the consumption of food or drink, at least 5 percent of the seating spaces and standing spaces at the dining surfaces shall comply with 902. In addition, where work surfaces are provided for use by other than employees, at least 5 percent shall comply with 902.”
O-07 (6)  A ½” shear change in level was provided between the exterior concrete and the door threshold of the Frost Bank lease space on the lower level (“1.002”). Floor level changes at accessible doorways shall comply with Section 303 which requires changes in level between 1/4" high minimum and 1/2" high maximum to be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 404.2.5 - "Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303.”

O-07 (7)  At both “1.220” and “1.224” entrances on the lower level, a ½” shear change in level was provided between the exterior concrete and each door threshold due to the eroding concrete beveling provided at each door. Floor level changes at accessible doorways shall comply with Section 303 which requires changes in level between 1/4" high minimum and 1/2" high maximum to be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 404.2.5 - "Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303.”

O-07 (8)  At the set of stairs accessing the “Paseo Principal” from the landing at the entry doors of the H-E-B University Center, the bottom handrail extensions sloped 10" beyond the bottom tread; however, since the treads were 12" deep, they did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.” If these stairs are a part of a means of egress, they, shall conform to Section 504 for conformance with Section 210.1 - "Interior and exterior stairs that are part of a means of egress shall comply with 504.”

O-07 (9)  Running slopes up to 5.5% were provided on the flagstone walking surface within this area between the two concrete bands which also constituted as cross slopes when traveling north and south from University Center; however, the running slope of walking surfaces shall not be steeper than 1:20 (5%) and cross slopes shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.”

O-07 (10)  Running slopes of 5.2% upwards of 7.1% were provided on the flagstone walking surface within this area; however, these slopes also constituted cross slopes when traveling north and south from University Center. The running slope of walking surfaces shall not be steeper than 1:20 (5%) and cross slopes shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.”

O-07 (11)  Cross slopes of 2.5% up to 2.9% were provided commencing at the sidewalk transition underneath the upper level walkway; however, cross slopes shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”

O-07 (12)  This connecting sidewalk provided varying cross slopes of 2.2% upwards of 2.9%; however, cross slopes shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “… The cross slope of walking surfaces shall not be steeper than 1:48.”
O-07 (13) A ¾” wide and ¾” deep shear change in level was provided between the concrete and the flagstone walking surfaces; however, changes in level in walking surfaces of 1/4” high maximum are permitted to be vertical and 1/4” high minimum to 1/2” high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - “Changes in level shall comply with 303.”

O-07 (14) The following conditions were provided at the auto-entry doors to the University Center lower level entrance:

a. A running slope of 2.9% was provided within the 60” deep minimum approach depth required by Table 404.2.4.1; however, slopes of 1:48 (2.08%) maximum are allowed for conformance with Section 404.2.4.4 Exception 1 – “Slopes not steeper than 1:48 shall be permitted.” [Safe Harbor Eligible]*

b. A 1” shear change in level was provided between the exterior concrete and the door threshold; however, floor level changes at accessible doorways shall comply with Section 303 which requires changes in level between 1/4” high minimum and 1/2” high maximum to be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 404.2.5 - "Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303.”

O-07 (15) The following conditions were provided at the top ramp run of the ramp system which runs along the south face of the University Center:

a. A running slope of 8.6% was provided on this ramp run; however, the slope of ramp runs shall not be steeper than 1:12 (8.33%) for conformance with Section 405.2 – “Ramp runs shall have a running slope not steeper than 1:12.”

Tolerance Note: While this slope is in excess of the 1:12 maximum allowed by Section 405.2, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

b. The top ramp landing provided a cross slope of 3.2%; however, slopes not steeper than 1:48 (2.08%) shall be permitted for conformance with Section 405.7.1 Exception – “Slopes not steeper than 1:48 shall be permitted.”

c. The intermediate ramp landing which allows a user to turn 90° toward an abutting sidewalk provided a cross slope of 4.4%; however, slopes not steeper than 1:48 (2.08%) shall be permitted for conformance with Section 405.7.1 Exception – “Slopes not steeper than 1:48 shall be permitted.”

d. Handrails on both sides of the ramp were located 33” to 33-1/4” above the ramp surface to the top of the gripping surface; however, the top gripping surfaces of handrails shall be 34” minimum and 38” maximum vertically above ramps for conformance with Section 505.4 - “Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.” [Safe Harbor Eligible with Tolerance]*

e. The bottom handrails did not extend 12” beyond the bottom of the ramp run which does not conform to Section 505.10.1 – “Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs...”
O-07 (16) The cross slopes of the walkway which runs perpendicular to the ramp and connects to the intermediate landing provided cross slopes of 3.8% on the southern most portion of the walking surface; however, cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “...The cross slope of walking surfaces shall not be steeper than 1:48.”

O-07 (17) The following conditions were provided at the bottom ramp run of the ramp system which runs along the south face of the University Center:

a. Cross slopes ranging from 6.2% down to 3.5% were provided on the top 5-1/2’ feet of the ramp and cross slopes ranging from 2.5% up to 3.4% were provided on the bottom 9’ of the ramp; however, cross slope of ramp runs shall not be steeper than 1:48 (2.08%) for conformance with Section 405.3 – “Cross slope of ramp runs shall not be steeper than 1:48.”

b. The bottom ramp landing which allows a user to turn 90° toward an abutting sidewalk provided a cross slope of 2.2%; however, slopes not steeper than 1:48 (2.08%) shall be permitted for conformance with Section 405.7.1 Exception – “Slopes not steeper than 1:48 shall be permitted.”

Tolerance Note: While this slope is in excess of the 1:48 maximum allowed by Section 405.7.1 Exception, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

c. The bottom handrails did not extend 12” beyond the bottom of the ramp run which does not conform to Section 505.10.1 – “Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs...”

O-07 (18) The cross slopes of the walkway which runs perpendicular to the ramp and connects to the bottom landing provided cross slopes of 3.2% at the sidewalk connection down to 2.5% on the bottom 10’ of the walking surface; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “...The cross slope of walking surfaces shall not be steeper than 1:48.”

Tolerance Note: While this slope is in excess of the 1:48 maximum allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

O-07 (19) A cross slope of 2.6% was provided at this portion of the sidewalk route; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “...The cross slope of walking surfaces shall not be steeper than 1:48.”

Tolerance Note: While this slope is in excess of the 1:48 maximum allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

O-07 (20) When accessing the Roadrunner Express door (“1.00.43”), which provided an automatic door opener, a running slope of 3.2% was provided within the 60” deep minimum approach depth required by Table 404.2.4.1; however, slopes of 1:48 (2.08%) maximum are allowed for conformance with Section 404.2.4.4 Exception 1 – “Slopes not steeper than 1:48 shall be permitted.” [Safe Harbor Eligible]*

O-07 (21) The conditions listed below were observed at the stairs next to the bottom ramp run along the south face of the University Center which may be a part of a means of egress, therefore, shall conform to Section 504 for conformance with Section 210.1 - “Interior and exterior stairs that are part of a means of egress shall comply with 504.”:

a. Both the handrails on the ends of the stairs were located 31-1/2” above the stair nosing to the top of the gripping surface; however, handrails shall be 34” minimum and 38” maximum vertically above stair nosings measured to the top gripping surface for conformance with Section 505.4 - “Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.”

b. The bottom handrail extensions sloped 6” beyond the bottom tread; however, since the treads were 12” deep, they did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - “At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing...”
O-07 (22) The inside handrail (building side) at the stairs on the south face of the University Center and adjacent to the top ramp run was located 33" above the stair nosing measured to the top of the gripping surface; however, handrails shall be 34" minimum and 38" maximum vertically above stair nosings measured to the top of the gripping surface for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces." If these stairs are a part of a means of egress, they, shall conform to Section 504 for conformance with Section 210.1 - "Interior and exterior stairs that are part of a means of egress shall comply with 504." [Safe Harbor Eligible with Tolerance]*

O-07 (23) The H-E-B University Center upper level exterior dining area provided fixed dining surfaces with 16 total seating spaces amongst four 4-top tables. Of these dining surfaces, one was observed to be the intended accessible seating spaces which conforms to Section 221.1 (at least 5% of fixed dining must be accessible); however, the chair support bar obstructed the potential knee clearance required to be provided under these tables (27" high, 30" wide, 8" deep per Section 306.3) which does not conform to Section 902.2 - "...Knee and toe clearance complying with 306 shall be provided."

O-07 (24) At the Roost Gameroom entrance ("2.220") on the upper level, a ½” shear change in level was provided between the exterior concrete and the threshold due to the eroding concrete beveling provided at the door. Floor level changes at accessible doorways shall comply with Section 303 which requires changes in level between 1/4" high minimum and 1/2" high maximum to be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 404.2.5 - "Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303."

O-07 (25) At "2.214A.1" entrance on the upper level, a ½” shear change in level was provided between the exterior concrete and the threshold due to the eroding concrete beveling provided at the door. Floor level changes at accessible doorways shall comply with Section 303 which requires changes in level between 1/4" high minimum and 1/2" high maximum to be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 404.2.5 - "Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303."

O-07 (26) When traveling on the upper level to the entrance of the University Center, a 1” high change in level was provided over a 4” run in this portion of the covered sidewalk resulting in a running slope in excess of 5.0% maximum allowed for conformance with Section 403.3 – "The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48."

[Image of handrail and floor level changes]
The following conditions were observed at the exterior stairs at the northwestern corner of the Flawn Sciences Building which may be a part of a means of egress, therefore, shall conform to Section 504 for conformance with Section 210.1 - "Interior and exterior stairs that are part of a means of egress shall comply with 504."

a. Both the handrails on each side of the stairs and both the intermediate handrails were located 32" above the stair nosing to the top of the gripping surface; however, handrails shall be 34" minimum and 38" maximum vertically above stair nosings measured to the top gripping surface for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

b. Both sets of the rectangular shaped intermediate handrail provided a perimeter dimension of 14-1/4" with a cross-section dimension greater than 2-1/4"; however, handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4" minimum and 6 1/4" maximum, and a cross-section dimension of 2 1/4" maximum for conformance with Section 505.7.2 - "Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum."

c. The top handrail extensions at both sides of the stairs did not return to a wall, guard, or landing surface which does not conform to Section 505.10.2 - "...Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

d. The bottom handrail extensions at both sides of the stairs did not return to a wall, guard, or landing surface which does not conform to Section 505.10.3 - "... Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

e. The circular handrails at the bottom tread on each side of the stairway extended 12" beyond the bottom tread; however, since the tread was 14" deep, they did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

f. The non-circular, rectangular shaped intermediate handrail extensions extended 5" beyond the bottom tread; however, since the tread was 14" deep, they did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

O-08 (2) Cross slopes of 2.6% up to 4.1% were provided at this portion of the sidewalk route; however, walking surfaces shall provide cross slopes not steeper than 1:48 (2.08%) for conformance with Section 403.3 - "...The cross slope of walking surfaces shall not be steeper than 1:48."

O-08 (3) The conditions listed below were observed at both sets of double doors entering the Flawn Sciences Building:

a. Running slopes varying from 2.2% up to 2.9% were provided within the 60" deep minimum approach depth required by Table 404.2.4.1 which does not conform to Section 404.2.4.4 Exception 1 – “Slopes not steeper than 1:48 shall be permitted.”
b. A shear change in level of 1-1/2" was provided between the exterior concrete and the door threshold. Floor level changes at accessible doorways shall comply with Section 303 which requires changes in level between 1/4" high minimum and 1/2" high maximum to be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 404.2.5 - "Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303."

O-08 (4) A 1" wide and 1/2" deep shear change in level was provided along this portion of the sidewalk route along with uneven concrete ground surfaces resulting in changes in level greater than 1/4" shear; however, such changes in level in walking surfaces of 1/4" high maximum are permitted to be vertical and 1/4" high minimum to 1/2" high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."

O-08 (5) Cross slopes of 2.3% up to 4.0% were provided at this portion of the sidewalk route; however, walking surfaces shall provide cross slopes not steeper than 1:48 (2.08%) for conformance with Section 403.3 - "...The cross slope of walking surfaces shall not be steeper than 1:48."

O-08 (6) The following conditions were observed at the curb ramp when traveling east across the pedestrian marked crossing:

a. The eastern side of the curb ramp provided cross slopes up to 2.2%; however, cross slopes of ramps shall not be steeper than 1:48 (2.08%) maximum for conformance with Section 405.3 - "Cross slope of ramp runs shall not be steeper than 1:48" per Section 405.1 - "Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10."

  **Tolerance Note:** While this slope was in excess of the 1:48 maximum allowed by Section 405.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

b. A 1" shear change in level at the bottom curb ramp down to the asphalt surface of the drive lane; however, changes in level in walking surfaces of 1/4" high maximum are permitted to be vertical and 1/4" high minimum to 1/2" high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."

O-08 (7) A door accessing the apparent egress stairs was provided on the side of Flawn Sciences Building. Shear changes in level varying from 1/2" to 2" shear was provided between the exterior concrete and the door threshold. Floor level changes at accessible doorways shall comply with Section 303 which requires changes in level between 1/4" high minimum and 1/2" high maximum to be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 404.2.5 - "Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303."
A 1-1/2" sheer, 2" wide crack in the sidewalk was provided within this route; however, such changes in level in walking surfaces of 1/4" high maximum are permitted to be vertical and 1/4" high minimum to 1/2" high maximum must be beveled 1:2 for conformance with Section 303 per **Section 403.4**. "Changes in level shall comply with 303."

A 2" sheer, 1" wide crack between the sidewalk joints was provided within this route; however, such changes in level in walking surfaces of 1/4" high maximum are permitted to be vertical and 1/4" high minimum to 1/2" high maximum must be beveled 1:2 for conformance with Section 303 per **Section 403.4**. "Changes in level shall comply with 303."

The bottom landing of the ramp connecting the Ximenes Ave. parking garage with the sidewalk in front of the Flawn Sciences Building accumulated water; however, landings subject to wet conditions shall be designed to prevent the accumulation of water for conformance with **Section 405.10**. "Landings subject to wet conditions shall be designed to prevent the accumulation of water."
O-09 (1) On the upper level between the Flawn Sciences Building and Biosciences Building, a 2" wide gap was provided across the width of the sidewalk with a shear change in level of ¾" however changes in level greater than ½" must be beveled 1:2 to conform to Section 303.3 – “Changes in level between ¼ inch (6.4 mm) high minimum and ½ inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.”

O-09 (2) This upper level sidewalk route between the Flawn Sciences Building and Biosciences Building provided cross slopes varying between 2.6% up to 2.8% around the drain near the top of the stairs on the northern side of the Biosciences Building; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 - “... The cross slope of walking surfaces shall not be steeper than 1:48.”

O-09 (3) Two sets of exterior stairs were provided to access the Flawn Sciences Building at Door 1.03.02-1 and 1.03.00 on west side of the building. The following conditions were observed:

a. The handrails at each set of stairs did not provide extensions above the top landing beginning directly above the first riser nosing as they connected into the top landing guardrail however handrails at stairs must provide 12” minimum extensions above the landing beginning directly above the first riser nosing to conform to Section 505.10.2 – “At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.”

b. The handrails at each set of stairs did not provide extensions beyond the bottom stair however handrails must extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing to conform to Section 505.10.3 – “At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.”
O-09 (4)  The pebble sidewalk along the western side of the Flawn Sciences Building provided a shear change in level of 1-3/4” at a control joint located between the two sets of exterior stairs however changes in level greater than ½” must be ramped to conform to Section 303.4 – "Changes in level greater than ½ inch (13 mm) high shall be ramped, and shall comply with 405 or 406."

O-09 (5)  A shear change in level of 3/4” was provided in addition to the threshold at Door 1.03.00 accessing the Flawn Sciences Building on the western side of the building. Floor level changes at doorways shall comply with Section 303 which requires changes in level between 1/4” high minimum and 1/2” high maximum to be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 404.2.5 - "Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303."

O-09 (6)  The pebble sidewalk along the western side of the Flawn Sciences Building north of the exterior stairs provided cross slopes varying between 2.3% up to 2.8%; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 - "The cross slope of walking surfaces shall not be steeper than 1:48."

O-09 (7)  The southern most sidewalk connecting the pebble sidewalk on the western side of the Flawn Sciences Building to “Crespa Walk” provided running slopes varying from 5.4% up to 7.2% and was considered to be a ramp. The following conditions were observed:

a. Cross slopes up to 2.9% were provided near the top of the ramp; however cross slopes not steeper than 1:48 must be provided along ramp surfaces to conform to Section 405.3 – “Cross slope of ramp runs shall not be steeper than 1:48.”

b. This ramp provides a rise greater than 6” however handrails were not provided; however ramps with a rise greater than 6” must provide handrails meeting the specifications of Section 505 to conform to Section 405.8 – “Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505.”

O-09 (8)  The southern end of “Crespa Walk” provided cross slopes varying from 2.4% up to 3.1% starting at the bollards up to just beyond the ramp system at the adjacent Ximenes Ave Garage; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 - "The cross slope of walking surfaces shall not be steeper than 1:48."
An exterior ramp was observed at the southeastern corner of the Ximenes Ave Garage and provided the following conditions:

a. The wood joint insert in the top landing was not level with the landing surface resulting in shear changes in level greater than \( \frac{1}{2}'' \) however changes in level (with exception to 1:48 maximum slopes) are not permitted within ramp landings to conform to Section 405.7.1 – “Landings shall comply with 302. Changes in level are not permitted.”

b. The first change in direction landing from the bottom of the ramp located between the lower ramp segment and the middle ramp segment measured to be 4'-9” by 4'-9” up to face of edge protection however change in direction landings are required to be 60” minimum by 60” minimum clear to conform to Section 405.7.4 – “Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum.”

c. The handrail along the outside of the ramp did not extend 12” beyond the top and bottom of the ramp system however ramp handrails must extend 12” minimum beyond the top and bottom of the ramp to conform to Section 505.10.1 – “Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.”

Exterior stairs were observed at the southeastern corner of Ximenes Ave Garage near the ramp referenced above. The middle handrail extended 10” beyond the bottom riser at the slope of the stairs and the handrail on the outside of the stairs extended 6” beyond the bottom riser at the slope of the stairs however with 12” tread depths, the handrails must extend beyond the bottom riser at the slope of the stairs for a distance equal to one tread depth (12” minimum) to conform to Section 505.10.3 – “At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.”
P-06 (1) Cross slopes varying from 2.3% up to 3.2% were provided on this portion of the sidewalk abutting the North Paseo Building; however, cross slopes of 1:48 (2.08%) maximum are allowed for conformance with Section 403.3 – “The cross slope of walking surfaces shall not be steeper than 1:48.”

P-06 (2) Along this portion of the sidewalk route (~4 panels long), cross slope varying from 3.1% up to 3.9% were provided on a 3’ wide portion of sidewalk closest to the street; however, cross slopes of 1:48 (2.08%) maximum are allowed for conformance with Section 403.3 – “The cross slope of walking surfaces shall not be steeper than 1:48.”

P-06 (3) A cross slope of 3.0% was provided on the curb ramp. Curb ramps are required to comply with Section 405, which does not permit cross slopes steeper than 1:48 (2.08%) per Section 405.3 for conformance with Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

Tolerance Note: While this slope is in excess of the 1:48 maximum allowed by Section 405.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

P-06 (4) When traveling from the marked pedestrian crossing (asphalt), the concrete landing before the ramped portion of sidewalk provided a cross slope of 3.3%; however, cross slopes of 1:48 (2.08%) maximum are allowed for conformance with Section 403.3 – “The cross slope of walking surfaces shall not be steeper than 1:48.”
P-07 (1) Running slopes varying from 4.6% up to 4.9% were provided at the double doors entering the Flawn Sciences Building within the 60" deep minimum approach depth required by Table 404.2.4.1; however, slopes of 1:48 (2.08%) maximum are allowed for conformance with Section 404.2.4.4 Exception 1 – “Slopes not steeper than 1:48 shall be permitted.”

P-07 (2) An Intercom push button mounted on the wall adjacent to the Multidisciplinary Studies Building entry doors was located 52-1/4" to the bottom of the button; however, such operable parts must be located in one or more of the reach ranges specified in Section 308 (15" minimum to 48" maximum above the finished floor) for conformance with Section 309.3 - "Operable parts shall be placed within one or more of the reach ranges specified in 308." [Safe Harbor Eligible]*

P-07 (3) The accessible portion of the ramp (compliant handrails provided on both sides) located on the east side of the sloped walkway provided a shear change in level of > 1/2" between the cracked brick paver band on the landing at the top of the ramp and the concrete ramp surface; however, changes in level other than the running slope and cross slope are not to be provided on ramps for conformance with Section 405.4 – “Floor or ground surfaces of ramp runs shall comply with 302. Changes in level other than the running slope and cross slope are not permitted on ramp runs.”

P-07 (4) Cracked walking surfaces between the brick paver band and the concrete created changes in level with varying heights greater than 1/2" shear; however, walking surfaces with changes in level between 1/4" high minimum and 1/2" high maximum must be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 403.4 - “Changes in level shall comply with 303.”
P-08 (1) In the lower level "Sombrillo Plaza", a planter with crushed granite and without any barriers was provided resulting in a walking surface that was not stable, firm, or slip resistant which does not conform to Section 302.1 - "Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302."

P-08 (2) Two ramps were observed at the “College of Science Research Centers” automatic entrance doors in the lower level “Sombrillo Plaza”. The conditions listed below were observed:

a. The northern ramp provided slopes of 12.7% and the southern ramp provided slopes of 11.7%; however, ramps must have running slopes not steeper than 1:12 (8.33%) to conform to Section 405.2 - "Ramp runs shall have a running slope not steeper than 1:12."
b. The northern and southern ramps did not provide edge protection on both sides of the ramp meeting the specifications in Section 405.9.1 or 405.9.2 to conform to Section 405.9 – "Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings."

c. The northern and southern ramp provided handrails only on one side of the ramp however ramps must provide handrails on both sides to conform to Section 505.2 - "Handrails shall be provided on both sides of stairs and ramps."

d. The handrails provided at each ramp provided heights of 32” above the ramp surface measured to the top of the gripping surface however a height of 34” minimum to 38” maximum above the ramp surface measured to the top of the gripping surface must be provided to conform to Section 505.4 – "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

Tolerance Note: While slopes were in excess of the 1:48 maximum allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

P-08 (4) At the upper level set of stairs at the “Granjeno Walk”, the top handrail extension on the southern side of the stairs (Arts Building side) did not return wall, guard, or landing surface which does not conform to Section 505.10.2 - "Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight." If these stairs are a part of a means of egress, they shall conform to Section 504 for conformance with Section 210.1 - "Interior and exterior stairs that are part of a means of egress shall comply with 504."

P-08 (5) The conditions listed below were observed at the exterior stairs from the upper level “Granjeno Walk” to the lower level entrance on the south face of Multidisciplinary Studies Building. If these stairs are a part of a means of egress, they shall conform to Section 504 for conformance with Section 210.1 - "Interior and exterior stairs that are part of a means of egress shall comply with 504."

a. The intermediate stair landing accumulated water; however, stair landings subject to wet conditions shall be designed to prevent the accumulation of water for conformance with Section 504.7 – "Stair treads and landings subject to wet conditions shall be designed to prevent the accumulation of water."
b. At the top set of stairs, handrails were mounted 32" above the stair nosing to the top of the gripping surface; however, handrails shall be 34" minimum and 38" maximum vertically above stair nosings mounted to the top gripping surface for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

c. At the bottom set of stairs, handrail heights varied between 30" and 31" above the stair nosing to the top of the gripping surface; however, handrails shall be 34" minimum and 38" maximum vertically above stair nosings measured to the top gripping surface for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

d. The rectangular shaped intermediate handrail provided a perimeter dimension of 18" with a cross-section dimension greater than 2-1/4"; however, handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4" minimum and 6 1/4" maximum, and a cross-section dimension of 2 1/4" maximum for conformance with Section 505.7.2 - "Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum."

e. At the top set of stairs, the top handrail extended horizontally for 10" beginning directly above the first riser nosing; however, at the top of a stair flight, handrails shall extend horizontally above the landing for 12" minimum beginning directly above the first riser nosing for conformance with Section 505.10.2 - “At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing.”

f. At the top set of stairs, the top outside handrail extensions did not return to a wall, guard, or landing surface which does not conform to Section 505.10.2 - “Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.”

g. At the bottom set of stairs, the top outside handrail extension did not return to a wall, guard, or landing surface which does not conform to Section 505.10.2 - “Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.”

h. At the top set of stairs, the bottom handrail extensions were 12" long beyond the bottom tread; however, since the treads are 14" deep, they did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing.”

i. At the top set of stairs, the bottom handrail extension on the outside of the stairs over the intermediate landing did not return to a wall, guard, or landing surface which does not conform to Section 505.10.3 - "... Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.”

j. At the bottom set of stairs, the bottom handrail extension on the outside of the stairs over the bottom stair landing did not return to a wall, guard, or landing surface which does not conform to Section 505.10.3 - "... Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.”
P-08 (6) A cross slope of 5.4% was provided on the side of the drain in the center of the sidewalk; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08) for conformance with Section 403.3 – “...The cross slope of walking surfaces shall not be steeper than 1:48.”

P-08 (7) The following conditions were provided at the ramp system on the south face of Multidisciplinary Studies Building:

a. The 10'-4” long middle ramp run provided a running slope of 8.9%; however; ramp runs shall have a running slope not steeper than 1:12 (8.33%) for conformance with Section 405.2 – “Ramp runs shall have a running slope not steeper than 1:12.”

   Tolerance Note: While this slope was in excess of the 1:12 maximum allowed by Section 405.2, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

b. The last 5’ of the bottom ramp run provided cross slopes varying from 2.3% to 2.8%; however, cross slope of ramp runs shall not be steeper than 1:48 (2.08%) for conformance with Section 405.3 – “Cross slope of ramp runs shall not be steeper than 1:48.”

c. A 1-1/2” shear change in level was provided between the bottom ramp run and the bottom asphalt landing; however, changes in level are not permitted at landings per Section 405.7.1 – “Landings shall comply with 302. Changes in level are not permitted.”

d. The intermediate landing between the middle ramp run and the bottom ramp run provided cross slopes of 3.4% to 4.4%; however, slopes not steeper than 1:48 (2.08%) are permitted in ramp landings for conformance with Section 405.7.1 Exception – “Slopes not steeper than 1:48 shall be permitted.”

e. A handrail was provided on the exterior side (landscape side) of the ramp only; however, handrails shall be provided on both sides ramps per Section 505.2 for conformance with Section 405.8 – “Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505.”
f. At the intermediate landing between the top ramp run and the middle ramp run, an exposed 5-3/4” shear drop off was provided on the outside edge of the landing; however, edge protection complying with Section 405.9.1 (extended ground surface) or Section 405.9.2 (curb or barrier) shall be provided on each side of ramp landings for conformance with Section 405.9 – “Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.”

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P-08 (8)

The following conditions were provided at the ramp accessing “2.02.20” of the Multidisciplinary Studies Building:

a. A running slope of 8.5% was provided at the bottom of the ramp up to 9.9% in the middle of the ramp; however, ramp runs shall have a running slope not steeper than 1:12 (8.33%) for conformance with Section 405.2 – “Ramp runs shall have a running slope not steeper than 1:12.”

b. The bottom landing provided a cross slope of 2.3%; however, slopes not steeper than 1:48 (2.08%) are permitted in ramp landings for conformance with Section 405.7.1 Exception – “Slopes not steeper than 1:48 shall be permitted.”

**Tolerance Note:** While this slope was in excess of the 1:48 maximum allowed by Section 405.7.1, this may be considered to be within an acceptable tolerance based on the experience of the consultant.
c. A guardrail was provided on the exterior side of the ramp; however, handrails compliant with Section 505 were not provided on the either side the ramp. Since this ramp had a rise greater than 6”, handrails shall be provided on both sides ramps per Section 505.2 for conformance with Section 405.8 – "Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505."

d. A 6-1/4” thick curb was provided as edge protection on the exterior side of the ramp; however, an 8” high shear drop off was provided on the outside edge of the top landing. Edge protection complying with Section 405.9.1 (extended ground surface) or Section 405.9.2 (curb or barrier) shall be provided on each side of ramp landings for conformance with Section 405.9 – “Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.”

P-08 (9) The following conditions were provided at the ramp accessing “2.02.54” of the Multidisciplinary Studies Building:

a. A cross slope up to 2.7% was provided on the ramp surface; however; cross slopes of ramp runs shall not be steeper than 1:48 (2.08%) for conformance with Section 405.3 – “Cross slope of ramp runs shall not be steeper than 1:48.”

Tolerance Note: While this slope was in excess of the 1:48 maximum allowed by Section 405.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

b. The bottom landing provided a cross slope of 3%; however, slopes not steeper than 1:48 (2.08%) are permitted in ramp landings for conformance with Section 405.7.1 Exception – “Slopes not steeper than 1:48 shall be permitted.”

c. A guardrail was provided on the exterior side of the ramp; however, handrails compliant with Section 505 were not provided on the either side the ramp. Since this ramp had a rise greater than 6”, handrails shall be provided on both sides ramps per Section 505.2 for conformance with Section 405.8 – "Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505."

d. A 6-1/4” thick curb was provided as edge protection on the exterior side of the ramp; however, an 8” high shear drop off was provided on the outside edge of the top landing. Edge protection complying with Section 405.9.1 (extended ground surface) or Section 405.9.2 (curb or barrier) shall be provided on each side of ramp landings for conformance with Section 405.9 – “Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.”
P-08 (10) The conditions listed below were provided at the stairs accessing the middle level of the “Sombrilla Plaza”:

a. Handrails were located between 31” and 32” above the stair nosing to the top of the gripping surface; however, the top gripping surfaces of handrails shall be 31-1/2” minimum and 38” maximum vertically above stair nosings for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

b. The bottom handrail extensions were 14” long beyond the bottom tread; however, since the treads were 17” deep, they did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing."

c. The bottom handrail extensions did not return to a wall, guard, or landing surface which does not conform to Section 505.10.3 - "... Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

d. Both the rectangular shaped intermediate handrail provided a perimeter dimension of 18” with a cross-section dimension greater than 2-1/4”; however, handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4” minimum and 6 1/4” maximum, and a cross-section dimension of 2 1/4” maximum for conformance with Section 505.7.2 - "Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum."

e. Both the 12” long horizontal handrail extensions at the bottom of the stairs had their leading edges (bottom of rail) at 30” above the finished ground which does not meet the protrusion limits (i.e. 27” maximum to the leading edge) of Section 307.2 - "Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path."

P-08 (11) Cracks in the brick paver band walking surface provided shear changes in level > 1/4”; however, walking surfaces with changes in level between 1/4” high minimum and 1/2” high maximum to be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 403.4 - "Changes in level shall comply with 303."
P-08 (12) The following conditions were observed at the intended accessible portion of the ramp which connected the middle level “Sombrilla Plaza” to the upper level “Granjeno Walk”:

a. Varying running slopes of 8.6 up to 9.4% were provided on the intended accessible portion of the ramp; however, ramp runs shall have a running slope not steeper than 1:12 (8.33%) for conformance with Section 405.2 – “Ramp runs shall have a running slope not steeper than 1:12.”

b. The bottom 5’ of the exterior side (landscape side) of the ramp did not provide edge protection; however, edge protection complying with Section 405.9.1 (extended ground surface) or Section 405.9.2 (curb or barrier) shall be provided on each side of ramps for conformance with Section 405.9 – “Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.”
When traveling from the lower level of the “Sombrilla Plaza” near the Engineering Building to the upper common area of the plaza, the following conditions were observed at the main set of exterior stairs which may be a part of a means of egress, therefore, shall conform to Section 504 for conformance with Section 210.1 - "Interior and exterior stairs that are part of a means of egress shall comply with 504."

a. Both the handrails on each side of the stairs and both the intermediate handrails were located 32" above the stair nosing to the top of the gripping surface; however, the top gripping surfaces of handrails shall be 34" minimum and 38" maximum vertically above stair nosings for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

b. Both sets of the rectangular shaped intermediate handrail provided a perimeter dimension of 18-3/4" with a cross-section dimension greater than 2-1/4"; however, handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4" minimum and 6 1/4" maximum, and a cross-section dimension of 2 1/4" maximum for conformance with Section 505.7.2 - "Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum."

c. The top handrail extensions on both sides of the stairs did not return to a wall, guard, or landing surface which does not conform to Section 505.10.2 - "...Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

d. The bottom handrail extensions on both sides of the stairs did not return to a wall, guard, or landing surface which does not conform to Section 505.10.3 - "...Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

e. The circular handrails at the bottom tread on each side of the stairway extended 8" beyond the bottom tread; however, since the treads were 14" deep, they did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

f. The non-circular, rectangular shaped intermediate handrail extensions extended 5" beyond the bottom tread; however, since the treads were 14" deep, they did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."
g. The top handrail extensions at the sides of the stairs were located 32-1/4" above the ground to their leading edge (bottom of handrail) and projected 8" into the circulation path which does not meet the protrusion limits (4" max. projection when leading edge is between 27" and 80" A.F.F) of **Section 307.2** - "Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path."

**P-09 (2)** In the lower level "Sombrilla Plaza" between the Arts Building and the Flawn Sciences Building, a planter with crushed granite and without any barriers was provided resulting in a walking surface which was not stable, firm, or slip resistant and does not conform to **Section 302.1** - "Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302."

**P-09 (3)** Double doors to the Flawn Sciences Building from the lower level "Sombrilla Plaza" were provided which were apparently no longer used as entry or exit doors; however, these doors were storefront type doors with usable hardware from the exterior side of the building. The conditions listed below were observed:

a. Running slopes of 3.3% were provided within the 60" deep minimum approach depth required by Table 404.2.4.1 for a forward approach which does not conform to **Section 404.2.4.4 Exception 1** – "Slopes not steeper than 1:48 shall be permitted."

b. A shear change in level of 4-1/2" was provided between the exterior concrete and the door threshold. Floor level changes at doorways shall comply with Section 303 which requires changes in level between 1/4" high minimum and 1/2" high maximum to be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per **Section 404.2.5** - "Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303."

**P-09 (4)** Two sets of double doors to the Flawn Sciences Building from lower level "Sombrilla Plaza" were provided which were apparently no longer used as entry or exit doors; however, these doors were storefront type doors with usable hardware from the exterior side of the building. The conditions listed below were observed:

a. Running slopes of 2.4% to 2.5% were provided within the 60" deep minimum approach depth required by Table 404.2.4.1 for a forward approach at each set of double doors which does not conform to **Section 404.2.4.4 Exception 1** – "Slopes not steeper than 1:48 shall be permitted."

**Tolerance Note:** While these slopes were in excess of the 1:48 maximum allowed by Section 404.2.4.4 Exception 1, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

b. A shear change in level of 5" was provided between the exterior concrete and each door threshold. Floor level changes at doorways shall comply with Section 303 which requires changes in level between 1/4" high minimum and 1/2" high maximum to be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per **Section 404.2.5** - "Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303."
A ramp was provided at the entrance labeled "1.04" of Flawn Sciences Building from the lower level "Sombrilla Plaza". The top, inside ramp handrail did not extend horizontally above the landing for 12" minimum beyond the top of the ramp run which does not conform to Section 505.10.1 - "Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.".

The storefront type door with pull open hardware accessing Flawn Sciences Building (Exit Only lettering taped to the door) from the upper level of the “Sombrilla Plaza” provided running slopes of 3.8% within the 60" deep minimum approach depth required by Table 404.2.4.1 for a forward approach which does not conform to Section 404.2.4.4 Exception 1 – “Slopes not steeper than 1:48 shall be permitted.”

This sidewalk route just beyond the door referenced in the item above from Flawn Sciences Building to the upper level of “Sombrilla Plaza” provided cross slopes varying from 2.5% up to 4.2% near the corner of the building; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 - "The cross slope of walking surfaces shall not be steeper than 1:48.”

Three separate drains in the walkway on route to the Flawn Sciences Building upper level entrance(s) from “Sombrilla Plaza” provided cross slopes ranging from 2.2% up to 3.1% on either side of each of these drains; however, walking surfaces are required to provide cross slopes not steeper than 1:48 (2.08%) maximum for conformance with Section 403.3 - "...The cross slope of walking surfaces shall not be steeper than 1:48.”

Uneven ground surfaces at the automatic entry doors labeled “2.01-3” of the Flawn Sciences Building from the upper level were provided resulting in running slopes up to 3.0% within the 60" deep minimum approach depth required by Table 404.2.4.1 which does not conform to Section 404.2.4 Exception 1 for conformance with Section 404.3.2 - "Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress shall comply with 404.2.4.” [Safe Harbor Eligible]*

Note: Compliance with Section 404.2.4 shall not be required where automatic doors and gates remain open in the power-off condition as allowed by Section 404.3.2 Exception - "Where automatic doors and gates remain open in the power-off condition, compliance with 404.2.4 shall not be required."

The walkway around the drain on the sidewalk route on the upper level between Flawn Sciences Building and Engineering Building provided cross slopes up to 3.1% on either side of the drain; however, walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) maximum for conformance with Section 403.3 - "...The cross slope of walking surfaces shall not be steeper than 1:48.”
P-09 (11) The drain under the covered walkway in front of the Engineering Building at the upper level entrance provided cross slopes ranging from 3.1% up to 3.4% on either side of each of this drain; however, walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) maximum for conformance with Section 403.3 - "...The cross slope of walking surfaces shall not be steeper than 1:48."

P-09 (12) The drain under the covered walkway in front of the Engineering Building at the upper level entrance provided cross slopes of 2.3% on the western side and 6.4% on the eastern either side of the drain; however, walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) maximum for conformance with Section 403.3 - "...The cross slope of walking surfaces shall not be steeper than 1:48."

P-09 (13) The drain on the upper level covered walkway near the southeastern corner of the "Engineering Building" provided a cross slope of 6.2% on the eastern side of the drain; however, walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) maximum for conformance with Section 403.3 - "...The cross slope of walking surfaces shall not be steeper than 1:48."

P-09 (14) A 25'-8" wide portion of the sidewalk circulation area just behind the "Paseo del Sur" directory provided a 1" wide gap with varied changes in level of 1/4" to 1/2" shear; such changes in level in walking surfaces of 1/4" high maximum are permitted to be vertical and 1/4" high minimum to 1/2" high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."

P-09 (15) When traveling to the Engineering Building, the entire length of the western side of the "Paseo del Sur" circulation route provided a 1" wide gap with changes in level of 3/4" shear; however, such changes in level in walking surfaces of 1/4" high maximum are permitted to be vertical and 1/4" high minimum to 1/2" high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."
P-09 (16) When traveling to the exterior dining area at the Biotechnology Sciences and Engineering Building from the "Paseo del Sur", a 1-1/2" wide gap with shear changes in level up to 1-1/4" deep were provided; however, such changes in level in walking surfaces of 1/4" high maximum are permitted to be vertical and 1/4" high minimum to 1/2" high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."

P-09 (17) Two ramps were provided accessing the entrance of the Engineering Building from the "Paseo del Sur" of which neither were fully accessible; however, at least one accessible route shall connect accessible buildings that are on the same site for conformance with Section 206.2.2 - "At least one accessible route shall connect accessible buildings, accessible facilities, accessible elements, and accessible spaces that are on the same site." The following conditions were observed at each of these ramps:

Southern Most Ramp

a. The elongated openings of the grates at the bottom of the ramp provided the long dimension parallel with the dominant direction of travel; however, such openings are required to be placed so that the long dimension is perpendicular to the dominant direction of travel for conformance with Section 302.3 - "Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel."

b. Running slopes of 8.6% up to 10.7% were provided along the ramp; however, ramps runs shall have slopes of 1:12 (8.33%) maximum for conformance with Section 405.2 - "Ramp runs shall have a running slope not steeper than 1:12."

c. Handrails were located between 31-1/2" and 32" above the ramp surface to the top of the handrail gripping surface; however, the top gripping surfaces of handrails shall be 34" minimum and 38" maximum vertically above ramps for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

Northern Most Ramp

d. The elongated openings of the grates at the bottom of the ramp provided the long dimension parallel with the dominant direction of travel; however, such openings are required to be placed so that the long dimension is perpendicular to the dominant direction of travel for conformance with Section 302.3 - "Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel."

e. Running slopes of 8.6% up to 10.7% were provided along the ramp; however, ramps runs shall have slopes of 1:12 (8.33%) maximum for conformance with Section 405.2 - "Ramp runs shall have a running slope not steeper than 1:12."
f. Handrails were located between 31-1/2" and 32" above the ramp surface to the top of the handrail gripping surface; however, the top gripping surfaces of handrails shall be 34" minimum and 38" maximum vertically above ramps for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

P-09 (18) At both sets of stairs in front of the Engineering Building, handrails were located between 32" and 33" above the stair nosing to the top of the gripping surface; however, the top gripping surfaces of handrails shall be 34" minimum and 38" maximum vertically above stair nosings for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces." If these stairs are part of a means of egress they shall conform to Section 504 for conformance with Section 210.1 - "Interior and exterior stairs that are part of a means of egress shall comply with 504."

P-09 (19) When traveling to the entry doors at the Engineering Building from the ramps located on both the north and south side of the entrance, slopes varying from 2.3% up to 3.8% were provided in front of the door which results in cross slopes in excess of 1:48 allowed within this route which does not conform to Section 403.3 - "...The cross slope of walking surfaces shall not be steeper than 1:48."
P-10 (1)  When accessing the parking meter located at the northwest corner of Bauerle Rd. Lot 1 from the Paseo del Sur walkway, an ~1’ long ramped portion of sidewalk connecting to the parking meter concrete pad measured running slopes of 20%; however, running slopes of 1:20 (5%) maximum are allowed along walking surfaces for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20...”

Note: A sloped concrete walkway was also provided from the concrete pad to the asphalt surface of the parking lot which did not provide accessible parking; therefore, was not along an accessible route to the operable parts of the parking meter. This walkway provided running slopes of 12.8% up to 15.4% (1:20 maximum allowed along walking surfaces) and cross slopes of up to 3.5% on the bottom half of the walkway (1:48 maximum allowed along walking surfaces).

P-10 (2)  Running slopes of 7.2% up to 8.1% were provided along this portion of the sidewalk route in front of the Biotechnology Sciences and Engineering Building; however, running slopes not steeper than 1:20 (5%) must be provided for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20...”

P-10 (3)  Running slopes of 5.9% up to 10.6% were provided along this portion of sidewalk route in front of the Biotechnology Sciences and Engineering Building; however, running slopes not steeper than 1:20 (5%) must be provided for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20...”
P-10 (4) Running slopes varying from 5.8% up to 13.2% were provided along this portion of sidewalk route in front of the Biotechnology Sciences and Engineering Building; however, running slopes not steeper than 1:20 (5%) must be provided for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20…”

P-10 (5) A shear change in level greater than 1/2” was provided between the concrete panels along this portion of the sidewalk route; however, walking surfaces with changes in level shall be 1/2” high maximum with a beveled slope not steeper than 1:2 for conformance with Section 303.3 per Section 403.4 - "Changes in level shall comply with 303."

P-10 (6) When traveling to the outdoor dining area at the northeast corner of the Biotechnology Sciences and Engineering Building, a cross slope of 3.1% was provided along this area of a circulation route; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 - "... The cross slope of walking surfaces shall not be steeper than 1:48."

P-10 (7) A cross slope of 4.6% was provided along this area of a circulation route within the outdoor dining area at the northeast corner of the Biotechnology Sciences and Engineering Building; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 - "... The cross slope of walking surfaces shall not be steeper than 1:48."

P-10 (8) At the 90° turn toward the sidewalk connecting the outdoor dining area at the northeast corner of the Biotechnology Sciences and Engineering Building and the Paseo del Sur sidewalk, a 1-1/2” wide gap was provided between the sidewalk panels resulting in a change in level >1/2” shear; however, walking surfaces with changes in level shall be 1/2” high maximum with a beveled slope not steeper than 1:2 for conformance with Section 303.3 per Section 403.4 - "Changes in level shall comply with 303."

P-10 (9) Cross slopes of 3.6% were provided at the 90° turn from the Paseo del Sur toward the sidewalk connecting the outdoor dining area at the northeast corner of the Biotechnology Sciences and Engineering Building and cross slopes of 4.1% up to 4.8% were provided on the first two concrete panels after the turn; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 - "... The cross slope of walking surfaces shall not be steeper than 1:48."
P-10 (10) Along this section of the Paseo del Sur walking surface, a 1” wide gap was provided between the sidewalk panels resulting in a change in level of 1” shear; however, walking surfaces with changes in level shall be 1/2” high maximum with a beveled slope not steeper than 1:2 for conformance with Section 303.3 per Section 403.4 - "Changes in level shall comply with 303."

P-10 (11) The following conditions were observed at the stairs accessing the Biotechnology Sciences and Engineering Building:

a. The handrails on each side were located between 32” and 33” above the stair nosing to the top of the gripping surface; however, the top gripping surfaces of handrails shall be 34” minimum and 38” maximum vertically above stair nosings for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

b. The bottom handrail extensions projected 10” beyond the bottom riser; however, since the treads were 11-1/2” deep, they did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."
The following conditions were observed at the stairs at the south east corner of the Biotechnology Sciences and Engineering Building:

a. At the bottom set of stairs, handrails were located between 33” and 33-1/2” above the stair nosing to the top of the gripping surface; however, the top gripping surfaces of handrails shall be 34” minimum and 38” maximum vertically above stair nosings for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

b. At the top set of stairs, the handrails mounted on the wall closest to the parking area were located 32-1/2” above the stair nosing to the top of the gripping surface; however, the top gripping surfaces of handrails shall be 34” minimum and 38” maximum vertically above stair nosings for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

c. At the bottom set of stairs, the outside bottom handrail extensions on each side projected 10” and 8” beyond the bottom riser and the intermediate handrails projected 7-1/2” from the bottom tread; however, since the treads were 11” deep, the handrails did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. ..."

d. At the middle set of stairs, the bottom intermediate handrail extensions projected 10” beyond the bottom tread; however, since the treads were 11” deep, the handrails did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. ..."

e. At the top set of stairs, the bottom intermediate handrail extensions projected 9” beyond the bottom tread; however, since the treads were 11” deep, the handrails did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. ..."

A running slope of 5.4% was provided on the northern most portion of sidewalk just in front of the stairs at the south east corner of the Biotechnology Sciences and Engineering Building; however, running slopes not steeper 1:20 (5%) maximum must be provided for conformance with Section 403.3 – "The running slope of walking surfaces shall not be steeper than 1:20...”

Tolerance Note: Although this running slope exceeds the maximum allowed by Section 403.2, this may be considered to be within an acceptable tolerance based on the experience of the consultant.
P-11 (3) Running slopes of 10.4% were provided along the 16'-8" long portion of sidewalk which runs in front of the Biotechnology Sciences and Engineering Building; however, running slopes not steeper than 1:20 (5%) must be provided for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20...”

P-11 (4) The following conditions were observed within the 30” wide by 48” deep clear ground space at the operable part(s) of “Emergency 7611”:

a. Due to the uneven surface of the concrete, running slopes of 3.0% and cross slopes of 2.3% were provided in the clear ground space; however, slopes not steeper than 1:48 (2.08%) are permitted for conformance with Section 305.2 Exception – “A clear floor or ground space complying with 305 shall be provided.” for conformance with Section 309.2 – “A clear floor or ground space complying with 305 shall be provided.”

Tolerance Note: While a cross slope condition of 2.3% was in excess of the 1:48 maximum allowed by Section 305.2 Exception, the slope slightly more in this limited area may be considered to be within an acceptable tolerance based on the experience of the consultant.

b. A 1” wide gap in the concrete joints provided a shear change in level of 1” deep; however, changes in level are not permitted per Section 305.2 – “Floor or ground surfaces of a clear floor or ground space shall comply with 302. Changes in level are not permitted” for conformance with Section 309.2 – “A clear floor or ground space complying with 305 shall be provided.”

P-11 (5) Cross slopes varying between 2.5% up to 2.7% were provided just before the 90° turn west along the sidewalk route abutting the parking area; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 - "The cross slope of walking surfaces shall not be steeper than 1:48.”

Tolerance Note: While these slopes were in excess of the 1:48 maximum allowed by Section 403.3, the slope slightly more in this limited area may be considered to be within an acceptable tolerance based on the experience of the consultant.

P-11 (6) Cross slopes varying between 2.9% up to 3.5% were along this portion of the sidewalk route abutting the parking area; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 - "The cross slope of walking surfaces shall not be steeper than 1:48."
P-11 (7) A 1-1/2” wide gap in-between the abutting concrete joints provided a 1” shear change in level; however, walking surfaces with changes in level shall be 1/2” high maximum with a beveled slope not steeper than 1:2 for conformance with Section 303.3 per Section 403.4 - “Changes in level shall comply with 303.”

P-11 (8) A 1-1/2” wide gap was provided at the 90° turn toward the south face of the Biotechnology Sciences and Engineering Building with a 1” shear change in level; however, walking surfaces with changes in level shall be 1/2” high maximum with a beveled slope not steeper than 1:2 for conformance with Section 303.3 per Section 403.4 - “Changes in level shall comply with 303.”

P-11 (9) Along this portion of the walking surface, a cross slope of 3.8% was provided at the 90° turn toward the parking area; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 - “The cross slope of walking surfaces shall not be steeper than 1:48.”

P-11 (10) Cross slopes varying between 2.2% to 2.3% were provided along this portion of the sidewalk route abutting the parking area; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 - “The cross slope of walking surfaces shall not be steeper than 1:48.”

Tolerance Note: While these slopes were in excess of the 1:48 maximum allowed by Section 403.3, the slope slightly more in this limited area may be considered to be within an acceptable tolerance based on the experience of the consultant.

P-11 (11) Cross slopes varying between 2.4% up to 3.3% were provided along this portion of the sidewalk route abutting the parking area; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 - “The cross slope of walking surfaces shall not be steeper than 1:48.”
The following conditions were observed at the accessible parking area south of the Biotechnology Sciences and Engineering Building:

a. A total of ten accessible parking spaces were provided; however, a van parking space conforming to Section 502 was not provided. For every six or fraction of six accessible parking spaces, at least one shall be a van parking space complying with Section 502 for conformance with Section 208.2.4 – “For every six or fraction of six parking spaces required by 208.2 to comply with 502, at least one shall be a van parking space complying with 502.”

b. At the northern most accessible parking space and access aisle, a significant amount of damaged asphalt was provided which resulted in changes in level greater than ¼” shear which is not permitted per Section 502.4 – “…Changes in level are not permitted” as well as slopes steeper than 2.08% (1:48) which is not permitted per Section 502.4 Exception – “Slopes not steeper than 1:48 shall be permitted.”

Both sides of the walking surface under the covered bus stop provided cross slopes of 2.3% up to 2.8%; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 - "The cross slope of walking surfaces shall not be steeper than 1:48."

**Tolerance Note:** While these slopes were in excess of the 1:48 maximum allowed by Section 403.3, the slope slightly more in this limited area may be considered to be within an acceptable tolerance based on the experience of the consultant.

A 3/4” wide gap in-between the concrete joints provided a 1” shear change in level; however, walking surfaces with changes in level shall be 1/2” high maximum with a beveled slope not steeper than 1:2 for conformance with Section 303.3 per Section 403.4 - "Changes in level shall comply with 303.”
Q-06 (1) The sloped walkway accessing the “The Market Place” in the Business Building measured running slopes up to 5.4% and cross slopes varying between 2.2% up to 2.8%; however, walking surfaces shall provide running slopes not steeper than 1:20 (5%) and cross slopes not steeper than 1:48 (2.08%) for conformance with Section 403.3 - "The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48."

**Tolerance Note:** While these slopes were in excess of the 1:20 and 1:48 maximum allowed by Section 403.3, the slopes slightly more in limited areas may be considered to be within an acceptable tolerance based on the experience of the consultant.

Q-06 (2) The following conditions were observed at the ramp located on the western corner of "The Market Place" exterior dining area at Business Building:

a. The handrails varied between 33-5/8” and 34” above the ramp surface to the top of the gripping surface; however, handrails shall be 34” minimum and 38” maximum vertically above the ramp measured to the top of the gripping surface for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces." [Safe Harbor Eligible with Tolerance]*

**Note:** Although Section 505.4 provides handrail mounting height requirements with a minimum and maximum end point and conventional industry tolerances are prohibited per Section 104.1.1, these may be safe harbored as such tolerances were allowed per ADAAG 3.2.

b. The top and bottom handrail extensions on the wall side of the ramp turned outward 90° and did extend 12” above the ramp landing which does not conform to Section 505.10.1 - "Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run."
The following conditions were observed at the accessible portion of ramp on the eastern side of the sloped walkway located along "Paseo del Norte" just before Bartlett Cocke Rd:

a. The top and bottom handrail extensions on the outside (along guardrail) of the ramp did not return to the guard or landing surface which does not conform to Section 505.10.1 - "Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run."

b. The 5' long intermediate ramp landing provided running slopes of 2.7% on the southern most portion of this landing; however, slopes not steeper than 1:48 (2.08%) are permitted for conformance with Section 405.7.1 Exception - "Slopes not steeper than 1:48 shall be permitted."

**Tolerance Note:** While these slopes were in excess of the 1:48 maximum allowed by Section 405.7.1 Exception, slopes slightly more in limited areas may be considered to be within an acceptable tolerance based on the experience of the consultant.
The conditions listed below were observed at the northern most stairs between the middle level of the "Sombrillo Plaza" and the lower plaza near the fountain in front of the John Peace Library. If these stairs are a part of a means of egress, they shall conform to Section 504 for conformance with Section 210.1 - "Interior and exterior stairs that are part of a means of egress shall comply with 504."

a. Handrails on both ends and the intermediate handrails were located 32" up top 34" above the stair nosing to the top of the gripping surface; however, handrails shall be 34" minimum and 38" maximum vertically above stair nosings measured to the top gripping surface for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

b. The rectangular shaped intermediate handrail provided a perimeter dimension of 18-1/2" with a cross-section dimension greater than 2-1/4"; however, handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4" minimum and 6 1/4" maximum, and a cross-section dimension of 2 1/4" maximum for conformance with Section 505.7.2 - "Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum."

c. The bottom handrail extension on the southern end (in front of fountain) of these stairs did not return to a wall, guard, or landing surface which does not conform to Section 505.10.3 - "...Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

d. The bottom handrail extension on the southern end (in front of fountain) of these stairs was located 29-1/2" above the ground to the leading edge (bottom of handrail) and projected greater than 4" into the circulation area which does not meet the protrusion limits (i.e. 27" maximum to the leading edge) of Section 307.2 - "Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path."
The conditions listed below were observed at the stairs between the upper "Sombrillo Plaza" and the lower plaza near the fountain in front of the John Peace Library. If these stairs are a part of a means of egress, they shall conform to Section 504 for conformance with Section 210.1 - "Interior and exterior stairs that are part of a means of egress shall comply with section 504."

a. Handrails on both ends of the stairs were located 31" to 32" above the stair nosing to the top of the gripping surface; however, handrails shall be 34" minimum and 38" maximum vertically above stair nosings measured to the top gripping surface for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

b. The rectangular shaped intermediate handrail provided a perimeter dimension of 18-1/2" with a cross-section dimension greater than 2-1/4"; however, handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4" minimum and 6 1/4" maximum, and a cross-section dimension of 2 1/4" maximum for conformance with Section 505.7.2 - "Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum."

c. The bottom handrail extensions on both sides of the stairs sloped 5" beyond the bottom tread; however, since the treads were 14" deep, they did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."
Q-07 (3) When traveling to the "Emergency Station #10" near the north corner of the John Peace Library on the lower level courtyard area, a 1-1/4" shear change in level was provided between the different concrete ground surfaces; however, changes in level in walking surfaces of 1/4" high maximum are permitted to be vertical and 1/4" high minimum to 1/2" high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."

Q-07 (4) Cross slopes of 4.2% up to 4.8% were provided along the sides of the drains at the top of the stairs; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 - "The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48."

Q-07 (5) The brick paver band beyond the drains at the top of the stairs provided uneven, cracked surfaces that provided up to 1" shear changes in level; however, changes in level in walking surfaces of 1/4" high maximum are permitted to be vertical and 1/4" high minimum to 1/2" high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."

Q-07 (6) The brick paver band at the bottom ramp landing provided shear changes in level varying from ½” up to ¾” to the ramp surface; however, changes in level other than the running slope and cross slope are not to be provided on ramps for conformance with Section 405.4 – “Floor or ground surfaces of ramp runs shall comply with 302. Changes in level other than the running slope and cross slope are not permitted on ramp runs.”
Q-07 (7) A dog-leg ramp in the “Sombrilla Plaza” connecting the level at McKinney Humanities Building to the level at Peace Library entrance was provided. The following conditions were observed:

a. The lower ramp leg provided running slopes of 8.0% up to 9.7%; however ramps must provide slopes not steeper than 1:12 (8.33%) to conform to Section 405.2 – “Ramp runs shall have a running slope not steeper than 1:12.”

b. The landing at the change in direction between the lower and middle ramp runs provided cross slopes up to 3.7% around the drain; however landings must provide slopes of 1:48 (2.08%) to conform to Section 405.7.1 Exception – “Slopes not steeper than 1:48 shall be permitted.”

c. The landing at the change in direction between the middle and upper ramp runs provided cross slopes of 2.5% up to 3.0% around the drain; however landings must provide slopes of 1:48 (2.08%) to conform to Section 405.7.1 Exception – “Slopes not steeper than 1:48 shall be permitted.”

d. The handrail on the exterior side of the upper ramp run did not return to the wall, guard, or landing surface at the bottom or top to conform to Section 505.10.1 – “Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.”

Q-07 (8) Stairs were provided in the “Sombrilla Plaza” connecting the level at McKinney Humanities Building to the level at Peace Library entrance. The following conditions were observed:

a. The handrails were located at 33” to 33-1/2” above the stair nosing measured to the top of the gripping surface; however, handrails shall be 34” minimum and 38” maximum vertically above stair nosings measured to the top gripping surface for conformance with Section 505.4 – “Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.”

b. The bottom extension at each handrail extended 1-1/2” to 10” at the slope of the stairs beyond the bottom 12” tread, however bottom stair handrail extensions must extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth to conform to Section 505.10.3 – “At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.”
Q-07 (9) The 3’ wide concrete band between brick paver bands along the plaza on the north side of the John Peace Library provided slopes 4.5% (due to hump) which resulted in cross slopes in excess of 1:48 (2.08%); however cross slopes not steeper than 1:48 shall be provided to conform to Section 403.3 - "...The cross slope of walking surfaces shall not be steeper than 1:48."

Q-07 (10) The six drains along the plaza on the north side of John Peace Library provided slopes up to 2.7% in the cross slope direction to the path of travel; however cross slopes not steeper than 1:48 shall be provided to conform to Section 403.3 - "...The cross slope of walking surfaces shall not be steeper than 1:48."

Q-07 (11) Cross slopes of 4.0% up to 4.5% were provided in the general circulation route of the plaza on the north side of the John Peace Library; however cross slopes not steeper than 1:48 shall be provided to conform to Section 403.3 - "...The cross slope of walking surfaces shall not be steeper than 1:48."

Q-07 (12) A set of stairs were provided connecting the plaza on the north side the John Peace Library to the Business Building. The following conditions were observed:

a. The handrails were mounted at 33” to 34” above the stair nosing measured to the top of the gripping surface; however, handrails shall be 34” minimum and 38” maximum vertically above stair nosings measured to the top gripping surface for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

b. The bottom handrail extensions extended 9” at the slope of the stairs beyond the bottom 12” tread however bottom stair handrail extensions must extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth to conform to Section 505.10.3 - “At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.”
Q-07 (13)  Slope conditions up to 5% were provided near the columns along the plaza on the western side of John Peace Library near the entrance to the building. Since this area provided non-fixed tables and was observed as a general circulation space, these slope conditions result in cross slopes in excess of 1:48 (2.08%); however cross slopes not steeper than 1:48 shall be provided to conform to Section 403.3 - "...The cross slope of walking surfaces shall not be steeper than 1:48."

Q-07 (14)  A ½” shear change in level was provided 1-1/2” from the threshold at the automatic entrance to the John Peace Library; however, changes in level in walking surfaces of 1/4” high maximum are permitted to be vertical and 1/4” high minimum to 1/2” high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."

Note: Manual double-leaf doors were provided on either side of the automatic entrance which provided non-compliant conditions at the thresholds and maneuvering clearances.

Q-07 (15)  The stairs accessing the "The Market Place" exterior dining area at the Business Building from "Paseo del Norte" did not provide handrails on either side of the stairway; however, both sides of stairs must provide handrails for conformance with Section 505.2 - "Handrails shall be provided on both sides of stairs and ramps." per Section 504.6 - "Stairs shall have handrails complying with 505."
Q-07 (16) A total of 52 seating spaces were observed at fixed dining surfaces (13 tables with four seats each) in the exterior dining area at "The Market Place" in the Business Building of which none were accessible seating spaces; however, where fixed dining surfaces are provided, at least 5% of the seating spaces and standing spaces at the dining surfaces shall be accessible and comply with Section 902 (i.e. height, clear floor space, etc.) for conformance with Section 226.1 - "Where dining surfaces are provided for the consumption of food or drink, at least 5 percent of the seating spaces and standing spaces at the dining surfaces shall comply with 902. In addition, where work surfaces are provided for use by other than employees, at least 5 percent shall comply with 902."

Q-07 (17) The stairs accessing the "The Market Place" entrance at the Business Building did not provide handrails on either side of the stairway; however, both sides of stairs are required to provide handrails for conformance with Section 505.2 - "Handrails shall be provided on both sides of stairs and ramps." per Section 504.6 - "Stairs shall have handrails complying with 505."

Q-07 (18) Two doors were observed entering "The Market Place" of which the northern most door provided running slopes of 2.7% within ~3’ beyond the threshold of the 60” deep minimum approach depth required by Table 404.2.4.1 which does not conform to Section 404.2.4.4 Exception 1 – "Slopes not steeper than 1:48 shall be permitted." Entrances shall comply with Section 404 for conformance with Section 206.4 - "Entrances shall be provided in accordance with 206.4. Entrance doors, doorways, and gates shall comply with 404 and shall be on an accessible route complying with 402."

Tolerance Note: While this slope was in excess of the 1:48 maximum allowed by Section 404.2.4.4 Exception 1, this may be considered to be within an acceptable tolerance based on the experience of the consultant.
Q-08 (1)  Slope conditions up to 5% were provided near the columns along the plaza on the western side of the John Peace Library near the entrance to the building. Since this area provided non-fixed tables and was used as a general circulation space, these slope conditions result in cross slopes in excess of 1:48 (2.08%); however, cross slopes not steeper than 1:48 shall be provided to conform to Section 403.3 - "...The cross slope of walking surfaces shall not be steeper than 1:48."

Q-08 (2)  The John Peach Library upper level exterior dining area provided fixed dining surfaces with 112 total seating spaces amongst the different sized tables. Of these dining surfaces, six were observed to be intended accessible seating spaces located at various tables throughout the dining area which conforms to Section 221.1 (at least 5% of fixed dining must be accessible). The following conditions were observed at the six intended accessible fixed dining surfaces:

a. The clear floor space at the accessible seating space at the fixed dining table located adjacent to the southern side of the John Peace Library entrance provided a running slope of 2.5%; however, slopes steeper than 1:48 (2.08%) are not permitted within such a clear floor space for conformance with Section 305.2 Exception - "Slopes not steeper than 1:48 shall be permitted." per Section 902.2 - "A clear floor space complying with 305 positioned for a forward approach shall be provided..."

b. Each of the tables providing wheelchair seating spaces provided a chair support bar which obstructed the potential knee clearance required to be provided under these tables (27" high, 30" wide, 8" deep per Section 306.3) which does not conform to Section 902.2 - "...Knee and toe clearance complying with 306 shall be provided."

Q-08 (3)  The conditions listed below were observed at the stairs on the southern end of the “Sombrilla Plaza” and north of the Arts Building. If these stairs are a part of a means of egress, they shall conform to Section 504 for conformance with Section 210.1 - "Interior and exterior stairs that are part of a means of egress shall comply with 504."

a. Handrails on both sides and the intermediate handrails were located 32" up top 33" above the stair nose to the top of the gripping surface; however, the top gripping surfaces of handrails shall be 34" minimum and 38" maximum vertically above stair nosings for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

b. The rectangular shaped intermediate handrail provided an a perimeter dimension of 14" with a cross-section dimension greater than 2-1/4"; however, handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4" minimum and 6 1/4" maximum, and a cross-section dimension of 2 1/4" maximum for conformance with Section 505.7.2 - "Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum."
c. The top handrail extension of the stairs did not return to a wall, guard, or landing surface which does not conform to Section 505.10.2 - "... Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

d. The bottom handrail extensions of the stairs sloped 13" beyond the bottom tread and did not return to the wall, guard, or the landing surface; however, since the treads were 16" deep, they did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing and return to the wall, guard, or landing surface for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

Q-08 (4) The conditions listed below were observed at the stairs on the southern end of the “Sombrilla Plaza” and north of the Arts Building connecting to the lower level of the plaza. If these stairs are a part of a means of egress, they shall conform to Section 504 for conformance with Section 210.1 - "Interior and exterior stairs that are part of a means of egress shall comply with 504." The following non-compliant conditions were observed at these stairs:

a. Each segment of handrail on the stairs, except for the outside handrail on the bottom portion of the flight, were located 32" to 33" above the stair nosing to the top of the gripping surface; however, the top gripping surfaces of handrails shall be 34" minimum and 38" maximum vertically above stair nosings for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

b. The rectangular shaped intermediate handrail provided a perimeter dimension of 14" with a cross-section dimension greater than 2-1/4"; however, handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4" minimum and 6 1/4" maximum, and a cross-section dimension of 2 1/4" maximum for conformance with Section 505.7.2 - "Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum."

c. The top handrail extension of the stairs did not return to a wall, guard, or landing surface which does not conform to Section 505.10.2 - "... Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

d. The bottom handrail extension of the stairs did not return to a wall, guard, or landing surface which does not conform to Section 505.10.3 - "... Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

Q-08 (5) The following conditions were observed at the intended accessible portion of the ramp on the northeastern face of the Arts Building:

a. The 5' long intermediate ramp landing provided running slopes of 2.2% on the southern most portion of this landing; however, slopes not steeper than 1:48 (2.08%) are permitted for conformance with Section 405.7.1 Exception - "Slopes not steeper than 1:48 shall be permitted."

Tolerance Note: While these slopes were in excess of the 1:48 maximum allowed by Section 405.7.1 Exception, slopes slightly more in limited areas may be considered to be within an acceptable tolerance based on the experience of the consultant.

b. The ramp did not provide edge protection complying with Section 405.9.1 (extended ground surface) or 405.9.2 (curb or barrier) which does not conform to Section 405.9 - "Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings."
c. A handrail was only provided on the outside of the ramp; however, both sides of ramps are required to provide handrails for conformance with Section 505.2 - "Handrails shall be provided on both sides of stairs and ramps." per Section 405.8 - "Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505."

d. The top of the handrail did not extend horizontally above the landing; however, ramp handrails shall extend horizontally above the landing for 12" minimum beyond the top of ramp runs for conformance with Section 505.10.1 - "Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run."

Q-08 (6) The stairway at the southeastern corner of this portion of the Arts Building only provided a non-conforming handrail (i.e. height, no bottom extension) on the exterior side of the stairs; however, both sides of stairs are required to provide handrails meeting the requirements of Section 505 for conformance with Section 504.6 - "Stairs shall have handrails complying with 505."

Q-08 (7) When traveling to this entrance on the side of the Arts Building, a 1-5/8" shear change in level was provided; however, changes in level in walking surfaces of 1/4" high maximum are permitted to be vertical and 1/4" high minimum to 1/2" high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."
Q-08 (8)  A 3/4" wide gap was provided in the sidewalk route on this side of the Arts Building; however, openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2" diameter for conformance with Section 302.3 - "Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10.  Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel."

Q-08 (9)  A shear change in level of 1" was provided between the exterior concrete and the door threshold at this double door entry to the Arts Building. Floor level changes at accessible doorways shall comply with Section 303 which requires changes in level between 1/4" high minimum and 1/2" high maximum to be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 404.2.5 - "Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303."

Q-08 (10)  The following conditions were observed at the dog leg ramp system on the lower level between the Arts Building and the John Peace Library:

a. Grates were provided at the bottom ramp landing which were 1/4" wide and 2-1/2" long with the long dimension parallel to the dominant direction of travel; however, openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2" diameter with the long dimension perpendicular to the dominant direction of travel for conformance with Section 302.3 - "Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10.  Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel."

b. The bottom most ramp run provided running slopes of 9.6% just before the landing; however, ramp runs shall have a running slope not steeper than 1:12 (8.33%) for conformance with Section 405.2 - "Ramp runs shall have a running slope not steeper than 1:12."

c. The top most ramp run provided running slopes varying from 8.5% up to 9.1% within the top 6'-6" before the top landing; however, ramp runs shall have a running slope not steeper than 1:12 (8.33%) for conformance with Section 405.2 - "Ramp runs shall have a running slope not steeper than 1:12."

d. The ramp did not provide edge protection complying with Section 405.9.1 (extended ground surface) or 405.9.2 (curb or barrier) which does not conform to Section 405.9 - "Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings."

e. Handrails were located 32-1/2" up top 33" above the ramp surface to the top of the handrail gripping surface; however, the top gripping surfaces of handrails shall be 34" minimum and 38" maximum vertically above ramps for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."
The following conditions were observed at the stairs from the "Sombrillo Plaza" to the lower level near the Arts Building:

a. Handrails were not provided on either side of the stairs and only an intermediate handrail was provided; however, both sides of stairs are required to provide handrails for conformance with Section 505.2 - "Handrails shall be provided on both sides of stairs and ramps." per Section 504.6 - "Stairs shall have handrails complying with 505."

b. The rectangular shaped intermediate handrail provided an a perimeter dimension of 18" with a cross-section dimension greater than 2-1/4"; however, handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4" minimum and 6 1/4" maximum, and a cross-section dimension of 2 1/4" maximum for conformance with Section 505.7.2 - "Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum."

c. The handrail was located 32" above the stair nosings to the top of the handrail gripping surface; however, handrails shall be 34" minimum and 38" maximum vertically above stair nosings measured to the top gripping surface for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

Changes in level up to 1" shear were provided at the corner of this circulation route adjacent to the Arts Building due to the cracked brick paver band; however, changes in level in walking surfaces of 1/4" high maximum are permitted to be vertical and 1/4" high minimum to 1/2" high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with Section 303."
The conditions listed below were observed at the bottom set of stairs at the lower northwest corner of the Arts Building:

a. Handrails on both sides and the intermediate handrails were located between 31" and 31-1/2" above the stair nosing to the top of the gripping surface; however, the top gripping surfaces of handrails shall be 34" minimum and 38" maximum vertically above stair nosings for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

b. The rectangular shaped intermediate handrail provided an a perimeter dimension of 18" with a cross-section dimension greater than 2-1/4"; however, handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4" minimum and 6 1/4" maximum, and a cross-section dimension of 2 1/4" maximum for conformance with Section 505.7.2 - "Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum."

c. The bottom handrail extensions of the stairs did not return to a wall, guard, or landing surface which does not conform to Section 505.10.3 - "... Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

d. The bottom handrail extensions of the stairs sloped 9" beyond the bottom tread; however, since the tread was 14" deep, they did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

A cross slope of 5.3% was provided at the drain near the northwest corner of the Arts Building; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 - "The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48."
Quadrant Q-08

The following conditions were observed at the intended accessible portion of the ramp accessing the lower level "Sombrillo Plaza":

a. A 1/4" shear change in level was provided across the top ramp landing; however, changes in level are not permitted in landings for conformance with Section 405.7.1 - "Landings shall comply with 302. Changes in level are not permitted."

b. An extended ground surface varying between 11" and 11-3/4" wide was provided as edge protection; however, at least 12" of extended ground surface must be provided beyond the inside face of the handrail for conformance with Section 405.9.1 - "The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505."

Tolerance Note: While this edge protection is slightly less than the minimum 12” stipulated by Section 405.9.1, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

c. The bottom handrail extended horizontally before the bottom of the ramp which results in less than 12” extensions over the bottom landing which does not conformance to Section 505.10.1 - "Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run."

Q-08 (16) Around the general circulation area of the "Sombrillo Plaza General Posting Board", cracked and uneven surfaces between the brick paver bands and the concrete created changes in level greater than 1/2" shear; however, changes in level in walking surfaces of 1/4" high maximum are permitted to be vertical and 1/4" high minimum to 1/2" high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."

Q-08 (17) Within this general circulation area of the "Sombrillo Plaza", several areas within close proximity provided cracked and uneven surfaces between the brick paver bands and the concrete with changes in level greater than 1/2" shear; however, changes in level in walking surfaces of 1/4" high maximum are permitted to be vertical and 1/4" high minimum to 1/2" high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."

Q-08 (18) The conditions listed below were observed at the southern most stairs between the middle level of the "Sombrillo Plaza" and the lower plaza near the fountain in front of the John Peace Library:

a. A handrail was not provided on the southern most end of the stairs near the large planter; however, both sides of stairs are required to provide handrails for conformance with Section 505.2 - "Handrails shall be provided on both sides of stairs and ramps." per Section 504.6 - "Stairs shall have handrails complying with 505."
b. The end handrail and the intermediate handrail were located 32" above the stair nosing to the top of the gripping surface; however, the top gripping surfaces of handrails shall be 34" minimum and 38" maximum vertically above stair nosings for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

c. The rectangular shaped intermediate handrail provided a perimeter dimension of 18" with a cross-section dimension greater than 2-1/4"; however, handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4" minimum and 6 1/4" maximum, and a cross-section dimension of 2 1/4" maximum for conformance with Section 505.7.2 - "Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum."

d. The bottom handrail extension on the northern end (in front of fountain) of these stairs did not return to a wall, guard, or landing surface which does not conform to Section 505.10.3 - "Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

e. The bottom handrail extension on the northern end (in front of fountain) of these stairs was located 29-1/2" above the ground to the bottom leading edge (bottom of handrail) and projected greater than 4" into the circulation area which does not meet the protrusion limits (4" max. projection when leading edge is between 27" and 80" A.F.F) of Section 307.2 - "Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path."

Q-08 (19) The following conditions were observed at the ramp which runs along the southwestern face of the John Peace Library:

a. Running slopes varying from 8.7% up to 10.6% were provided on the top half of the ramp; however, running slopes of 1:12 (8.33%) maximum are allowed for conformance with Section 405.2 – “Ramp runs shall have a running slope not steeper than 1:12.”

b. A ½” shear change in level was provided on the top ramp landing between the brick paver band and the brick paver walking surface; however, ramp landings are not permitted to have changes in level to conform to Section 405.7.1 – “Landings shall comply with 302. Changes in level are not permitted.”

c. The wall side handrail at the bottom of the ramp was located 33-1/2” above the ramp surface to the top of the handrail gripping surface; however, the top of gripping surfaces of handrails shall be 34” minimum and 38” maximum vertically above ramp surfaces for conformance with Section 505.4 – “Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces...”
d. The wall side top and bottom handrail extensions did not return to a wall, guard, or the landing surface for conformance with Section 505.10.1 – “...Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.”

Q-08 (20) The following conditions were observed at the stairs located adjacent to the ramp which runs along the southwestern face of the John Peace Library:

a. The handrails were located 33” above the stair nosing to the top of the gripping surface; however, the top gripping surfaces of handrails shall be 34” minimum and 38” maximum vertically above stair nosings for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

b. The rectangular shaped handrails provided a perimeter dimension of 14" with a cross-section dimension greater than 2-1/4"; however, handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4" minimum and 6 1/4" maximum, and a cross-section dimension of 2 1/4" maximum for conformance with Section 505.7.2 - "Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum."

c. The bottom handrail extensions of the stairs sloped 7" beyond the bottom tread; however, since the tread was 14-1/2" deep, they did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

Q-08 (21) The top handrail extensions at the connecting ramp which runs south of the John Peace Library were not 12” long; however, ramp handrails shall extend horizontally above the landing for 12” minimum beyond the top of ramp runs for conformance with Section 505.10.1 – “Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs...”
The conditions below were observed at the exterior stairs between the hatched "Buses Only" staging area and passenger drop off in front of the Arts Building. If these stairs are a part of a means of egress, they shall conform to Section 504 for conformance with Section 210.1 - "Interior and exterior stairs that are part of a means of egress shall comply with 504."

a. Tread depths of 12" were provided on all the steps except the bottom tread was 24" deep; however, all steps on a flight of stairs shall have uniform tread depths for conformance with Section 504.2 - "All steps on a flight of stairs shall have uniform riser heights and uniform tread depths. Risers shall be 4 inches (100 mm) high minimum and 7 inches (180 mm) high maximum. Treads shall be 11 inches (280 mm) deep minimum."

b. At the bottom of the stairway, the non-sloping portion of the handrails over the bottom stair tread on each side was located 33-1/2" above the stair nosing to the top of the gripping surface; however, the top gripping surfaces of handrails shall be 34" minimum and 38" maximum vertically above stair nosings for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces." [Safe Harbor Eligible with Tolerance]*

Note: Although Section 505.4 provides handrail mounting height requirements with a minimum and maximum end point and conventional industry tolerances are prohibited per Section 104.1.1, these may be safe harbored as such tolerances were allowed per ADAAG 3.2.

c. The handrails at the bottom tread on each side of the stairway did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."
Q-09 (2) The following conditions were observed at the passenger loading zone in front of the Arts Building which is required to comply with Section 503 for conformance with the scoping provisions of Section 209.2.1 - "Passenger loading zones, except those required to comply with 209.2.2 and 209.2.3, shall provide at least one passenger loading zone complying with 503 in every continuous 100 linear feet (30 m) of loading zone space, or fraction thereof."

a. Both the 8' wide pull-up space and the 5' wide access aisle provided crosswalk hatch markings; however, the access aisle did not provide markings throughout the entire aisle length as to discourage parking in it which does not conform to Section 503.3.3 - "Access aisles shall be marked so as to discourage parking in them."

b. Running slopes varying from 2.4% to 2.7% were provided within the 8' wide pull up space and 5' wide access aisle; however, slopes not steeper than 1:48 (2.08%) are permitted for conformance with Section 503.4 Exception - "Slopes not steeper than 1:48 shall be permitted."

Tolerance Note: While these slopes were in excess of the 1:48 maximum allowed by Section 503.4 Exception, the slopes slightly more in limited areas may be considered to be within an acceptable tolerance based on the experience of the consultant.

c. When traveling from the passenger loading zone to the curb ramp, a 1-1/2" wide gap was provided between the asphalt pull up space access aisle and the concrete curb ramp creating changes in level greater than 1/4"; however, changes in level are not permitted within the ground surface of passenger loading zones for conformance with Section 503.4 - "Vehicle pull-up spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the vehicle pull-up space they serve. Changes in level are not permitted."
Q-09 (3)  When traveling to the entrance of the Arts Building, a 1" wide gap was provided in the ground surface of the covered walkway 4'-11" from the top of the curb ramp which created shear changes in level greater than 1/4"; however, such changes in level in walking surfaces of 1/4" high maximum are permitted to be vertical and 1/4" high minimum to 1/2" high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."

Q-09 (4)  The following conditions were observed at the entrance doors of the Arts Building:

a.  Both the doors accessing the "Art Building" provided running slopes varying from 2.7% up to 3.6% within the ~3' beyond the threshold of the 60" deep minimum approach depth required by Table 404.2.4.1 which does not conform to Section 404.2.4.4 Exception 1 – "Slopes not steeper than 1:48 shall be permitted."

b.  An Intercom push button mounted on the wall adjacent to the "Art" building entry doors was located 55-1/4" to the bottom of the button; however, such operable parts are required to be located in one or more of the reach ranges specified in Section 308 (15" minimum to 48" maximum above the finished floor) for conformance with Section 309.3 - "Operable parts shall be placed within one or more of the reach ranges specified in 308."

Q-09 (5)  Along the sidewalk route in front of the Arts Building east of the passenger drop off, running slopes of 7.4% up to 8.6% and cross slopes of 2.5% up to 2.6% were provided; however, the running slope of walking surfaces shall not be steeper than 1:20 (5%) with cross slopes not steeper than 1:48 (2.08%) for conformance with Section 403.3 - "The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48."

Q-09 (6)  When traveling from the Arts Building to the Engineering Building, the eastern most curb ramp at the pedestrian crossing provided a 3/4" shear change in level at the bottom curb ramp down to the asphalt surface of the drive lane; however, changes in level in walking surfaces of 1/4" high maximum are permitted to be vertical and 1/4" high minimum to 1/2" high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."

Q-09 (7)  When traveling from the Arts Building to the Engineering Building, the following conditions were observed at the western most curb ramp at the pedestrian crossing:

a.  A 1" shear change in level was provided from the asphalt of the drive lane up to the header curb; however, changes in level in walking surfaces of 1/4" high maximum are permitted to be vertical and 1/4" high minimum to 1/2" high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."

b.  A 3/4" wide gap was provided between the header curb and the concrete curb ramp creating shear changes in level greater than 1/2"; however, changes in level in walking surfaces of 1/4" high maximum are permitted to be vertical and 1/4" high minimum to 1/2" high maximum must be beveled 1:2 for conformance with Section 303 per Section 403.4 - "Changes in level shall comply with 303."

c.  The curb ramp provided running slopes varying from 8.0% at the bottom up to 8.8% at the top of the curb ramp; however, curb ramps are required to comply with Section 405.2 which does not permit running slopes steeper than 1:12 (8.33%) for conformance with Section 406.1 - "Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10."

  **Tolerance Note:** While the slope of the curb ramp exceeds the 1:12 maximum allowed by Section 405.2, this condition may be considered to be within an acceptable tolerance based on the experience of the consultant.

Q-09 (8)  The concrete sidewalk provided running slopes of 7.5% starting at the top of the curb ramp for 13' west toward the sidewalk in front of the Engineering Building; however, the running slope of walking surfaces shall not be steeper than 1:20 (5%) for conformance with Section 403.3 - "The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48."
Q-09 (9) Two separate drains in the walkway on route to the Arts Building upper level entrance provided cross slopes ranging from 2.4% up to 3.1% on either side of the drains; however, walking surfaces must provide cross slopes not steeper than 1:48 (2.08%) maximum for conformance with Section 403.3 - "The cross slope of walking surfaces shall not be steeper than 1:48."

Q-09 (10) All four doors at the Art Building upper level entrance provided running slopes varying from 3.6% up to 4.3% within the 5'-2" long brick paver surface beyond the threshold of the 60" deep minimum approach depth required by Table 404.2.4.1 which does not conform to Section 404.2.4.4 Exception 1 - "Slopes not steeper than 1:48 shall be permitted."

Q-09 (11) When traveling from the Art Buildings down to "Sombrillo Plaza", the following conditions were observed at the stairs which may be a part of a means of egress, therefore, shall conform to Section 504 for conformance with Section 210.1 - "Interior and exterior stairs that are part of a means of egress shall comply with 504."

a. Both the handrails at the ends of the stairs and the intermediate handrail provided varying heights 32" to 34" above the stair nosing to the top of the gripping surface; however, the top gripping surfaces of handrails shall be 34" minimum and 38" maximum vertically above stair nosings for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

b. The rectangular shaped intermediate handrail provided an a perimeter dimension of 12-3/4 with a cross-section dimension greater than 2-1/4"; however, handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4" minimum and 6 1/4" maximum, and a cross-section dimension of 2 1/4" maximum for conformance with Section 505.7.2 - "Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum."

c. The top handrail extensions at both sides of the stairs did not return to a wall, guard, or landing surface which does not conform to Section 505.10.2 - "...Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."
d. The bottom handrail extension on the exterior side (away from building) of the stairs did not return to a wall, guard, or landing surface which does not conform to **Section 505.10.3** - "Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

Q-09 (12) The double doors to the Arts Building from lower level "Sombrillo Plaza" were apparently no longer used as entry or exit doors; however, these doors were storefront type doors with usable hardware from the exterior side of the building. The conditions listed below were observed:

a. Running slopes of 2.4% were provided within the 60" deep minimum approach depth required by Table 404.2.4.1 for a forward approach which does not conform to **Section 404.2.4.4 Exception 1** – "Slopes not steeper than 1:48 shall be permitted."

**Tolerance Note:** While these slopes were in excess of the 1:48 maximum allowed by Section 404.2.4.4 Exception 1, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

b. A shear change in level of 4-1/2" was provided between the exterior concrete and the door threshold. Floor level changes at doorways shall comply with Section 303 which requires changes in level between 1/4" high minimum and 1/2" high maximum to be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per **Section 404.2.5** - "Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303."

Q-09 (13) The double doors to Room "1.00.30" of the Arts Building from lower level "Sombrillo Plaza" were apparently no longer used as entry or exit doors; however, these doors were storefront type doors with usable hardware from the exterior side of the building. The conditions listed below were observed:

a. Running slopes of 2.5% were provided within the 60" deep minimum approach depth required by Table 404.2.4.1 for a forward approach which does not conform to **Section 404.2.4.4 Exception 1** – "Slopes not steeper than 1:48 shall be permitted."

**Tolerance Note:** While these slopes were in excess of the 1:48 maximum allowed by Section 404.2.4.4 Exception 1, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

b. A shear change in level of 4-1/2" was provided between the exterior concrete and the door threshold. Floor level changes at doorways shall comply with Section 303 which requires changes in level between 1/4" high minimum and 1/2" high maximum to be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per **Section 404.2.5** - "Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303."
Q-09 (14)  The double doors to Room "1.00.04" of the Arts Building from lower level "Sombrillo Plaza" were apparently no longer used as entry or exit doors; however, these doors were storefront type doors with usable hardware from the exterior side of the building. The conditions listed below were observed:

a. Running slopes of 3.7% were provided within the 60" deep minimum approach depth required by Table 404.2.4.1 for a forward approach which does not conform to Section 404.2.4.4 Exception 1 – “Slopes not steeper than 1:48 shall be permitted.”

b. A shear change in level of 4-1/2" was provided between the exterior concrete and the door threshold. Floor level changes at doorways shall comply with Section 303 which requires changes in level between 1/4" high minimum and 1/2" high maximum to be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 404.2.5 - "Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303."
R-07 (1) Running slopes varying from 2.7% up to 2.9% were provided on the middle of the access aisle at the southernmost set of accessible parking spaces serving the Business Building; however, slopes not steeper than 1:48 (2.08%) maximum is allowed for conformance with Section 502.4 Exception 1 – “Slopes not steeper than 1:48 shall be permitted.”

R-07 (2) This portion of the sidewalk, which runs along the Business Building, provided cross slopes of 3.0% up to 3.3%; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08) for conformance with Section 403.3 – “…The cross slope of walking surfaces shall not be steeper than 1:48.”

R-07 (3) An apparent passenger loading zone was provided in front of the Business Building which did not provide markings in the access aisle as to discourage parking in it for conformance with Section 503.3.3 – “Access aisles shall be marked so as to discourage parking in them.”

R-07 (4) The following conditions were observed at the exterior seating area with benches located across the drive lane from the Business Building:

a. A 2-1/2” shear change in level was provided between the concrete sidewalk and the crushed granite walkway; however, walking surfaces with changes in level between 1/4” high minimum and 1/2” high maximum must be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 403.4 - “Changes in level shall comply with 303.”

b. The crushed granite surface walkway and surface at the seating area was not stable, firm, or slip resistant which does not conform to Section 302.1 – “Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.” Additional commentary regarding the properties of a stable surface is provided Advisory 302.1 General – “A stable surface is one that remains unchanged by contaminants or applied force, so that when the contaminant or force is removed, the surface returns to its original condition. A firm surface resists deformation by either indentations or particles moving on its surface. ...”
R-07 (5) On this portion of sidewalk, which runs behind the “No Parking or Standing” sign and the drive up book return, cross slopes of 2.7% up to 4.4% were provided; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08) for conformance with Section 403.3 – “…The cross slope of walking surfaces shall not be steeper than 1:48.”

R-07 (6) Three panels of concrete sidewalk behind the light post provided cross slopes of 2.7% up to 3.1% however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08) for conformance with Section 403.3 – “…The cross slope of walking surfaces shall not be steeper than 1:48.”

R-07 (7) The following conditions were provided at the curb ramp just before the marked crossing when traveling to the Bauerle Rd Garage:

a. Running slopes varying from 8.8% up to 10.8% were provided on the ramped portion; however, curb ramps must provide slopes of 1:12 (8.33%) maximum per Section 405.2 – “Ramp runs shall have a running slope not steeper than 1:12” for conformance with Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

b. The bottom of the curb ramp allowed a user to turn 90° left or right onto the connecting sidewalk which provided a cross slope of 3.0%; however, cross slope of ramp runs shall not be steeper than 1:48 (2.08%) per Section 405.3 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10” for conformance with Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

R-07 (8) The portions of connecting sidewalk on both sides of the aforementioned curb ramp (before the marked crossing when traveling to the Bauerle Rd. Garage) provided cross slopes of 2.8% up to 3.5%; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08) for conformance with Section 403.3 – “…The cross slope of walking surfaces shall not be steeper than 1:48.”

R-07 (9) The following conditions were observed on the northern most curb ramp at the marked crossing when traveling to the John Peace Library:

a. The curb ramp provided cross slopes of 6.3%; however, cross slope of ramp runs shall not be steeper than 1:48 (2.08%) per Section 405.3 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10” for conformance with Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

b. The bottom landing of the curb ramp provided running slopes of 2.3% up to 8.2%; however, slopes shall not be greater than 1:48 (2.08%) per Section 405.3 for conformance with Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”
R-07 (10) The pedestrian crossing (no marking provided) between the Business Building and the John Peace Library, provided cross slopes of 6.9% up to 7.2%; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08) for conformance with Section 403.3 – “...The cross slope of walking surfaces shall not be steeper than 1:48.”

R-07 (11) A cracked portion of the concrete connecting sidewalk provided shear changes in level > ½”; however, walking surfaces with changes in level between 1/4” high minimum and 1/2” high maximum to be beveled with a slope not steeper than 1.2 for conformance with Section 303.3 per Section 403.4 - "Changes in level shall comply with 303."

R-07 (12) At curb ramp south of the drive between the Business Building and the John Peace Library provided a cross slope of 4.5%; however, cross slopes of ramp runs shall not be steeper than 1:48 (2.08%) per Section 405.3 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10” for conformance with Section 406.1 – “Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.”

R-07 (13) A marked, pedestrian crossing was provided in this location which provided 6” curbs on either side; however, changes in level greater than ½” high along accessible connecting routes between buildings shall be ramped and comply Section 406 for conformance with Section 303.4 – “Changes in level greater than 1/2 inch (13 mm) high shall be ramped, and shall comply with 405 or 406.”
R-07 (14) Cross slopes of 6.6% were provided within this portion of the connecting sidewalk; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08) for conformance with **Section 403.3** – “…The cross slope of walking surfaces shall not be steeper than 1:48.”

R-07 (15) A total of seven parking spaces were provided in the “Reserved 24/7 for President’s Office Guests” parking area of which none were accessible parking spaces; however, each parking facility shall provide accessible parking spaces in conformance with Table 208.2; therefore, at least one of the parking spaces in this area shall be an accessible parking space per Table 208.2 for conformance with **Section 208.2** – “Parking spaces complying with 502 shall be provided in accordance with Table 208.2 except as required by 208.2.1, 208.2.2, and 208.2.3. Where more than one parking facility is provided on a site, the number of accessible spaces provided on the site shall be calculated according to the number of spaces required for each parking facility.”

<table>
<thead>
<tr>
<th>Total Number of Parking Spaces Provided in Parking Facility</th>
<th>Minimum Number of Required Accessible Parking Spaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 25</td>
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<tr>
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</tr>
<tr>
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<td>2 percent of total</td>
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<tr>
<td>1001 and over</td>
<td>20, plus 1 for each 100, or fraction thereof, over 1000</td>
</tr>
</tbody>
</table>

R-07 (16) The connecting sidewalk, which runs along the “Reserved 24/7 for President’s Office Guests” parking area on route to the Main Building, provided running slopes of 5.3% up to 6.2%; however, the running slope of walking surfaces shall not be steeper than 1:20 (5%) for conformance with **Section 403.3** – “The running slope of walking surfaces shall not be steeper than 1:20...”

R-07 (17) When traveling to the Main Building from the connecting sidewalk which runs along the “Reserved 24/7 for President’s Office Guests”, this portion of the route requires a user to make a 90° turn and provided cross slopes of 5.0% before the turn and 3.7% after the turn; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08) for conformance with **Section 403.3** – “…The cross slope of walking surfaces shall not be steeper than 1:48.”
R-07 (18) Cross slopes within this portion of the lower level connecting sidewalk just before the stairs provided varying cross slopes of 2.2% to 2.3%; however, cross slopes of walking surfaces shall not be steeper than 1:48 (2.08) for conformance with Section 403.3 – “...The cross slope of walking surfaces shall not be steeper than 1:48.”

Tolerance Note: While these slopes were in excess of the 1:48 maximum allowed by Section 403.3, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

R-07 (19) The conditions listed were observed at the bottom of the lower level stairs up to the John Peace Library:

a. The exterior side bottom handrail did not return to a wall, guard, or landing surface which does not conform to Section 505.10.3 - "... Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

b. The exterior side of the guardrail and handrail extension at the bottom of the stairs had their leading edges (bottom of rail) at 42-3/4” and 34-3/4”, respectively, above the finished ground and projected into the circulation path at the bottom of the stairs more than 4”; however, a 4” maximum projection is allowed into circulation paths when the leading edge is located between 27” and 80” above the ground surface for conformance with Section 307.2 – “Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path.”

R-07 (20) The handrails on both sides of the stairs from the upper level walkway up to the John Peace Library provided bottom handrail extensions which did not return to a wall, guard, or landing surface which does not conform to Section 505.10.3 - "... Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

R-07 (21) The conditions listed below were provided at the stairs located on the northern side of the John Peace Library:

a. Only an Intermediate handrail was provided; however, handrails shall be provided on both sides of stairs per Section 505.2 for conformance with Section 504.6 – “Stairs shall have handrails complying with 505. “

b. The intermediate handrail was located 32” above the stair nosing to the top of the gripping surface; however, handrails shall be 34” minimum and 38” maximum vertically above stair nosings measured to the top gripping surface for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

c. The rectangular shaped intermediate handrail provided a perimeter dimension of 14” with a cross-section dimension greater than 2-1/4”; however, handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4” minimum and 6-1/4” maximum, and a cross-section dimension of 2-1/4” maximum for conformance with Section 505.7.2 - "Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum."

R-07 (22) The conditions listed below were provided at the stairs at the northeast corner of the John Peace Library:

a. Both the intermediate handrails were located 31” above the stair nosing to the top of the gripping surface; however, handrails shall be 34” minimum and 38” maximum vertically above stair nosings measured to the top gripping surface for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."
b. Both the rectangular shaped intermediate handrails provided a perimeter dimension of 14" with a cross-section dimension greater than 2-1/4"; however, handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4" minimum and 6-1/4" maximum, and a cross-section dimension of 2 1/4" maximum for conformance with Section 505.7.2 - "Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum."

c. The handrail extension on the outside (exterior wall) at the bottom tread of the stairway extended 8" beyond the bottom tread; however, since the treads were 14" deep, it did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

d. The handrail extensions did not return to a wall, guard, or landing surface which does not conform to Section 505.10.3 - "... Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

e. Both the top inside handrail extension (library wall side) and the bottom outside handrail extension (exterior wall side) had their leading edges (bottom of rail) at 31-7/8" above the finished ground which does not meet the protrusion limits (i.e. 27" maximum to the leading edge) of Section 307.2 - "Objects with leading edges more than 27 inches (685 mm) and not more than 80 inches (2030 mm) above the finish floor or ground shall protrude 4 inches (100 mm) maximum horizontally into the circulation path."

R-07 (23) The conditions listed below were provided at the bottom set of stairs abutting the north face of the John Peace Library:

a. Both the intermediate handrails were located 31" above the stair nosing to the top of the gripping surface; however, handrails shall be 34" minimum and 38" maximum vertically above stair nosings measured to the top gripping surface for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

b. Both the rectangular shaped intermediate handrails provided a perimeter dimension of 14" with a cross-section dimension greater than 2-1/4"; however, handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4" minimum and 6-1/4" maximum, and a cross-section dimension of 2-1/4" maximum for conformance with Section 505.7.2 - "Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum."
c. The bottom, inside handrail (library wall side) did not provide a bottom handrail extension; however, at the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance equal to at least one tread depth beyond the last riser nosing for conformance with Section 505.10.3 – “At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing…”

R-07 (24) The conditions listed below were provided at the middle set of stairs abutting the north face of the John Peace Library:

a. The inside handrail on the end (library wall side) was located 32" above the stair nosing to the top of the gripping surface and both the intermediate handrails were located 31" above the stair nosing to the top of the gripping surface; however, the top gripping surfaces of handrails shall be 34" minimum and 38" maximum vertically above stair nosings for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

b. Both the rectangular shaped intermediate handrails provided a perimeter dimension of 14" with a cross-section dimension greater than 2-1/4"; however, handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4" minimum and 6 1/4" maximum, and a cross-section dimension of 2 1/4" maximum for conformance with Section 505.7.2 - "Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum."

c. The top handrail extension on the inside (library wall side) of the stairs continued to slope for 10-3/4" beyond the top tread before extending horizontally above the landing; however, at the top of a stair flight, handrails shall extend horizontally above the landing for 12" minimum beginning directly above the first riser nosing for conformance with Section 505.10.2 – “At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing.”

d. The bottom handrail extension on the inside (library wall side) of the stairs extended 8" beyond the bottom tread; however, since the tread was 14" deep, it did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."
R-07 (25) The conditions listed below were provided at the top set of stairs abutting the north face of the John Peace Library:

a. The inside handrail on the end (library wall side) was located 32" above the stair nosing to the top of the gripping surface and both the intermediate handrails were located 31" above the stair nosing to the top of the gripping surface; however, the top gripping surfaces of handrails shall be 34" minimum and 38" maximum vertically above stair nosings for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

b. Both the rectangular shaped intermediate handrails provided a perimeter dimension of 14" with a cross-section dimension greater than 2-1/4"; however, handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4" minimum and 6 1/4" maximum, and a cross-section dimension of 2 1/4" maximum for conformance with Section 505.7.2 - "Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches (100 mm) minimum and 6 1/4 inches (160 mm) maximum, and a cross-section dimension of 2 1/4 inches (57 mm) maximum."

c. The top handrail extension on the inside (library wall side) of the stairs continued to slope for 10-3/4" beyond the top tread before extending horizontally above the landing; however, at the top of a stair flight, handrails shall extend horizontally above the landing for 12" minimum beginning directly above the first riser nosing for conformance with Section 505.10.2 - "At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing."

d. The bottom handrail extension on the inside (library wall side) of the stairs extended 8" beyond the bottom tread; however, since the tread was 14" deep, it did not extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 - "At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight."

R-07 (26) The following conditions were observed at the drain in the center of the upper level sidewalk which runs along the north face of the John Peace Library:

a. A running slope of 8.1% was provided; however, the running slope of walking surfaces shall not be steeper than 1:20 (5%) for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20…”

Note: Although ramped surfaces which have a rise less than 6" are allowed to provide slopes up 1:12 (8.33%) without handrails, such ramps would require level landings at the top and bottom of the ramp run. Since running slopes of 3.5% were provided at the top of the sloped portion of sidewalk, it can not be considered a ramp which complies with all the provisions of Section 405.

b. Cross slopes of 3.4% up to 3.9% were provided on the side of the drain; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08) for conformance with Section 403.3 – “…The cross slope of walking surfaces shall not be steeper than 1:48.”
R-08 (1) The ramp at the southeast corner of the John Peace Library provided handrails with varying heights up to 38-1/2” above the ramp surface to the top of the gripping surface; however, the top gripping surfaces of handrails shall be 34" minimum and 38" maximum vertically above ramps for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces."

R-08 (2) The conditions listed below were provided at the ramp between the John Peace Library and the covered walkway in front of the library:

- a. Running slopes varied between 8.5% up to 10%; however, ramp runs shall have a running slope not steeper than 1:12 (8.33%) for conformance with Section 405.2 – “Ramp runs shall have a running slope not steeper than 1:12.”

- b. On the southern part of the ramp near the handrails, cross slopes varied between 3.2% up to 3.9%; however, cross slope of ramp runs shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 – “Cross slope of ramp runs shall not be steeper than 1:48.”

- c. The top handrail extensions turned 90° away from the ramp landing; however, ramp handrails shall extend horizontally above the landing for 12" minimum beyond the top of the ramp runs for conformance with Section 505.10.1 – “Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs...”

R-08 (3) A 4’ long sloped portion of sidewalk located next to the southern most column just after the ramp provided running slopes of 12% near the column then varied between 8.4% down to 2.7% toward the middle of the walkway; however, running slopes of walking surfaces shall not be steeper than 1:20 (5.0%) for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20...”

R-08 (4) Cross slopes under the covered upper-level walkway varied between 3.6% up to 4.1%; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08) for conformance with Section 403.3 – “...The cross slope of walking surfaces shall not be steeper than 1:48.”

R-08 (5) A 4’ long sloped portion of sidewalk located next to the column provided running slopes of 10.8% near the column then varied down to 2.4% toward the middle of the walkway; however, running slopes of walking surfaces shall not be steeper than 1:20 (5.0%) for conformance with Section 403.3 – “The running slope of walking surfaces shall not be steeper than 1:20...”

R-08 (6) A cross slope of 4.2% was provided at the drain in the circulation area of the exterior dining area which is also along a circulation route to the stairs to the lower level of the John Peace Library. The cross slope of walking surfaces shall not be steeper than 1:48 (2.08) for conformance with Section 403.3 – “…The cross slope of walking surfaces shall not be steeper than 1:48.”
R-08 (7)  At the stairs accessing the lower level walkway abutting the John Peace Library, the bottom extensions at the intermediate landing and at the bottom landing on the outside of the stairs (opposite the wall) extended 10” beyond the 12-1/2” long bottom riser; however, at the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 – “At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing.”

R-08 (8)  The following conditions were observed at the stairs accessing the lower level walkway between the John Peace Library and the Main Building:

a.  The bottom half of the outside handrail (opposite building) was located 33” above the stair nosing to the top of the gripping surface; however, the top gripping surfaces of handrails shall be 34” minimum and 38” maximum vertically above stair nosings for conformance with Section 505.4 - "Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces." [Safe Harbor Eligible with Tolerance]*

b.  The bottom outside handrail extension (opposite building) extended 10” beyond the 12-1/2” long bottom riser; however, at the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing for conformance with Section 505.10.3 – “At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing.”

R-08 (9)  The double entry doors accessing “0.22-03” of the Main Building on the lower level provided a running slope of 2.6% within 18” past the latch side of one of the door leaves; however, slopes not steeper than 1:48 (2.08%) are permitted within the required door maneuvering clearance for conformance with Section 404.2.4.4 Exception 1 – “Slopes not steeper than 1:48 shall be permitted.”

R-08 (10)  The following conditions were provided along the connecting ramp south of the John Peace Library:

a.  Before reaching the bottom of the ramp, the handrails provided on both sides were not continuous as gaps of 1-1/2” and 3-1/2” were provided on either side of the ramp between the different types of handrails; however, handrails shall be continuous within the full length of each ramp run for conformance with Section 505.3 – “Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs.”

b.  The bottom handrail extensions turned 90° away from the ramp landing; however, ramp handrails shall extend horizontally above the landing for 12” minimum beyond the bottom of the ramp runs for conformance with Section 505.10.1 – “Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs…”
**R-08 (11)** A ¾” deep sheer circular divot in the concrete was provided at the 90° turn before the ramp landing; however, walking surfaces with changes in level between 1/4” high minimum and 1/2” high maximum to be beveled with a slope not steeper than 1:2 for conformance with Section 303.3 per Section 403.4 - “Changes in level shall comply with 303.”

**R-08 (12)** The top ramp landing provided a running slope of 2.5%; however, slopes not steeper than 1:48 (2.08%) are permitted within ramp landings for conformance with Section 405.7.1 Exception – “Slopes not steeper than 1:48 shall be permitted.”

**Tolerance Note:** While these slopes were in excess of the 1:48 maximum allowed by Section 405.7.1 Exception, this may be considered to be within an acceptable tolerance based on the experience of the consultant.

**R-08 (13)** The following conditions were provided at the stairs accessing the walkway to the parking area behind the Main Building:

a. The 2nd to bottom stair riser provided a significant crack in the stair tread which resulted in changes in level of ¾” shear; however, changes in level are not permitted on the tread surface for conformance with Section 504.4 – “Stair treads shall comply with 302. Changes in level are not permitted.”

b. The top, outside handrail extension did not return to the wall or landing surface which does not conform to Section 505.10.2 – “…Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.”

c. The bottom, outside handrail extension did not return to the wall or landing surface which does not conform to Section 505.10.3 – “…Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.”
R-08 (14) The sidewalk route in this area in close proximity to the landscape island and at the 90° turn toward the ramp provided varying cross slopes of 3.3% up to 4.3%; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08) for conformance with Section 403.3 – “...The cross slope of walking surfaces shall not be steeper than 1:48.”

R-08 (15) The bottom ramp landing provided a running slope of 3.1%; however, slopes not steeper than 1:48 (2.08%) are permitted with ramp landings for conformance with Section 405.7.1 Exception – “Slopes not steeper than 1:48 shall be permitted.”
R-09 (1) The following conditions were observed along the portion of the sidewalk route east of the Arts Building and just before the connecting sidewalk which runs north toward the John Peace Library:

a. Running slopes ranging between 5.0% up to 7.0% were provided along the majority of this portion of the sidewalk; however, the running slope of walking surfaces shall not be steeper than 1:20 (5%) for conformance with Section 403.3 - "The running slope of walking surfaces shall not be steeper than 1:20."

b. Cross slopes varied between 2.0% upwards of 2.6% along this portion of the sidewalk route; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 - "The cross slope of walking surfaces shall not be steeper than 1:48.”

**Tolerance Note:** While the cross slopes were in excess of the 1:48 maximum allowed by Section 403.3, the slopes slightly more in limited areas may be considered to be within an acceptable tolerance based on the experience of the consultant.

R-09 (2) At the intersection of the sidewalk route east of the Arts Building and the connecting sidewalk which runs north toward the John Peace Library, the slope of the sidewalk panel where a user makes a 90° turn measured 4.6% which results in the cross slope of the turn in excess of 1:48 (2.08%) maximum allowed for conformance with Section 403.3 - "The cross slope of walking surfaces shall not be steeper than 1:48.”

R-09 (3) The following conditions were observed along the portion of the sidewalk route that runs north toward the John Peace Library:

a. Where the sidewalks connect and make an 90° turn, the first sidewalk panel provided a cross slope of 3.5% which results in the cross slope of the turn in excess of 1:48 (2.08%) maximum allowed for conformance with Section 403.3 - "The cross slope of walking surfaces shall not be steeper than 1:48.”

b. Cross slopes of 1.5% up to 2.7% were provided in various areas of this portion of the sidewalk route; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 - "The cross slope of walking surfaces shall not be steeper than 1:48.”

**Tolerance Note:** While the cross slopes were in excess of the 1:48 maximum allowed by Section 403.3, the slopes slightly more in limited areas may be considered to be within an acceptable tolerance based on the experience of the consultant.
c. Several areas along this portion of the sidewalk provided cracked or eroded concrete which created uneven surfaces with changes in level greater than 1/4" shear; however, changes in level in walking surfaces are required to comply with Section 303 (1/4" high minimum and 1/2" high maximum to be beveled with a slope not steeper than 1:2) for conformance with Section 403.4 - "Changes in level shall comply with 303."
R-10 (1) A cross slope of 2.6% was provided at the first sidewalk panel just beyond the intersection of the sidewalk connecting to the Arts Building and the connecting sidewalk which runs north toward the John Peace Library in front of the light pole; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 - "The cross slope of walking surfaces shall not be steeper than 1:48."

Tolerance Note: While this slope was in excess of the 1:48 maximum allowed by Section 403.3, the slope slightly more in this limited area may be considered to be within an acceptable tolerance based on the experience of the consultant.

R-10 (2) At "Emergency 1417", the running slope of the sidewalk within the 30" wide x 48" long clear ground space of the pedestrian emergency push button was 5.9%; however, operable parts are required to provide a clear ground space complying with Section 305 which does not permit slopes steeper than 1:48 (2.08%) for conformance with Section 305.2 Exception per Section 309.2 - "A clear floor or ground space complying with 305 shall be provided."

R-10 (3) Cross slopes of 2.4% up to 2.9% were provided at this portion of the sidewalk route; however, the cross slope of walking surfaces shall not be steeper than 1:48 (2.08%) for conformance with Section 403.3 - "... The cross slope of walking surfaces shall not be steeper than 1:48."