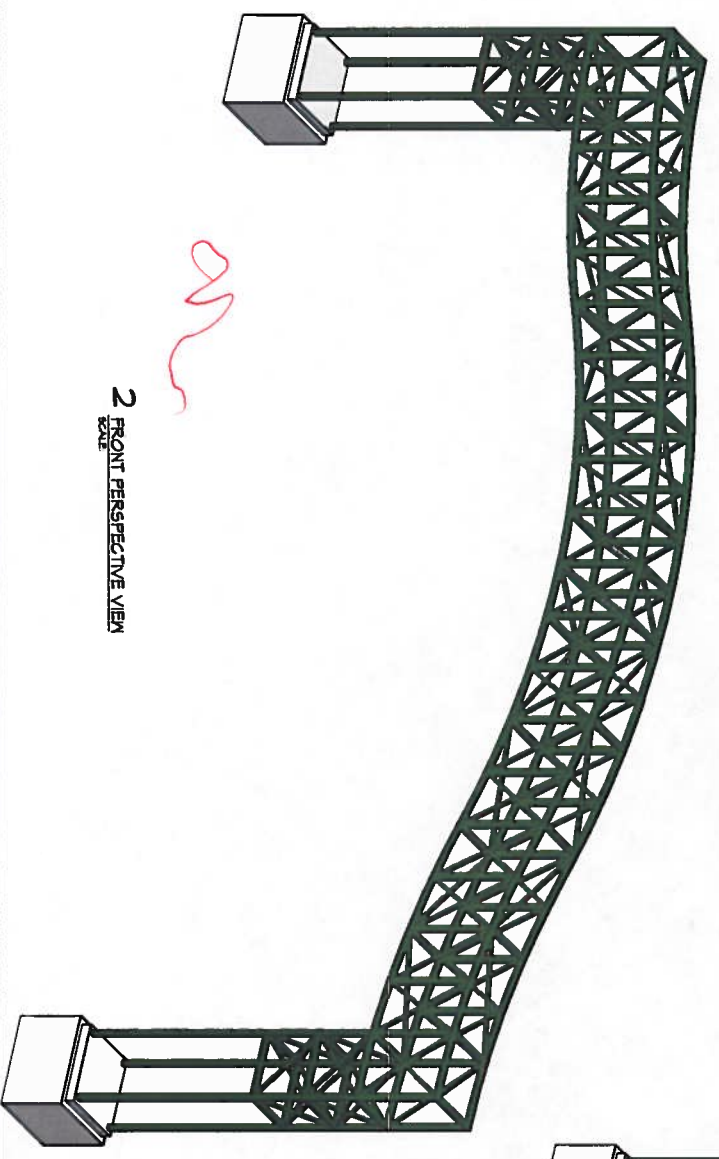
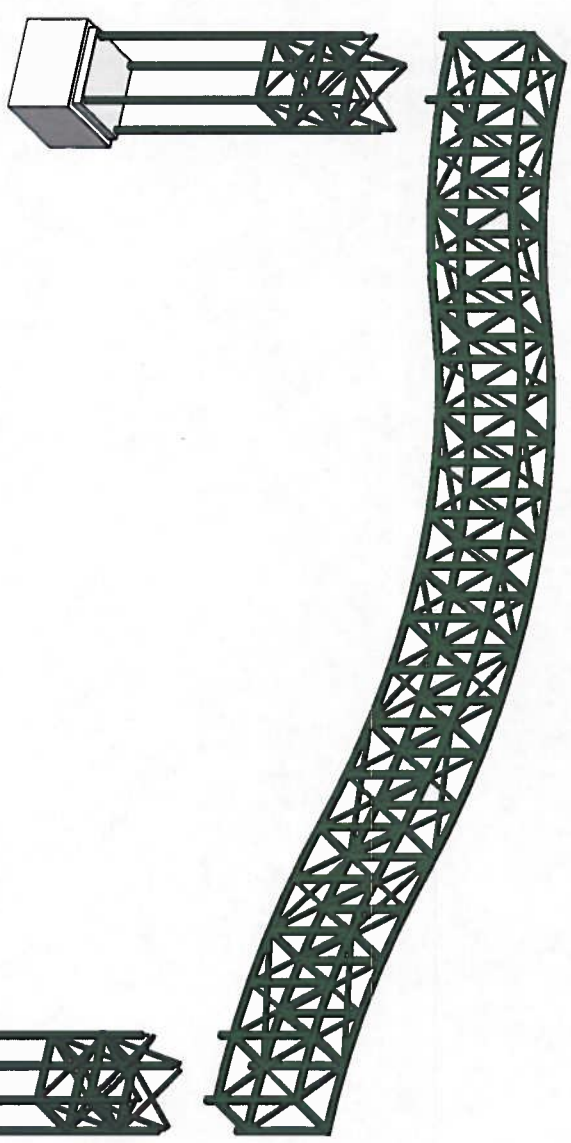


1 FRONT VIEW



2 FRONT PERSPECTIVE VIEW



3 FRONT PERSPECTIVE VIEW

Revisions

East Sixth Street Sign Structure
East 6th Street, Austin TX

shaping the built environment

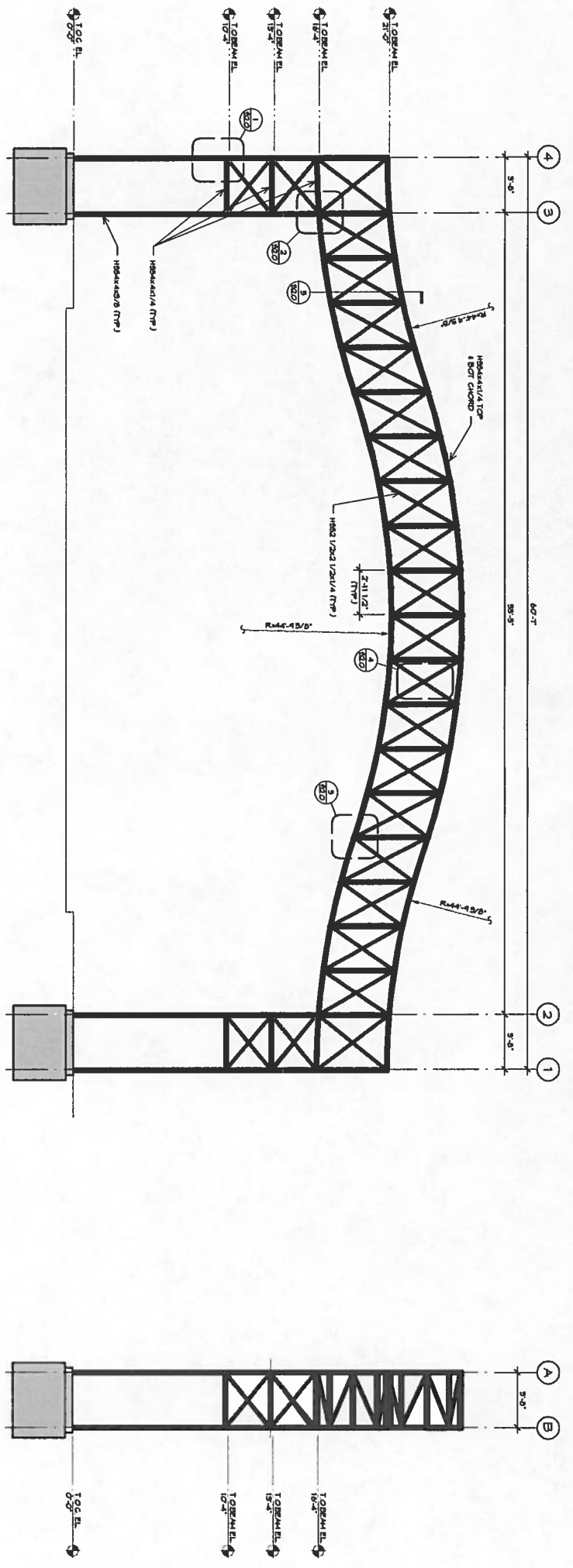


JASTER-QUINTANILLA & ASSOCIATES, INC
1608 WEST 6TH STREET, SUITE 100
512.474.9294
AUSTIN, TEXAS 78703
JQENG.COM
TBP# RRM F-323
PROJECT NUMBER: 6121492

INTERNAL REVIEW DOCUMENTS

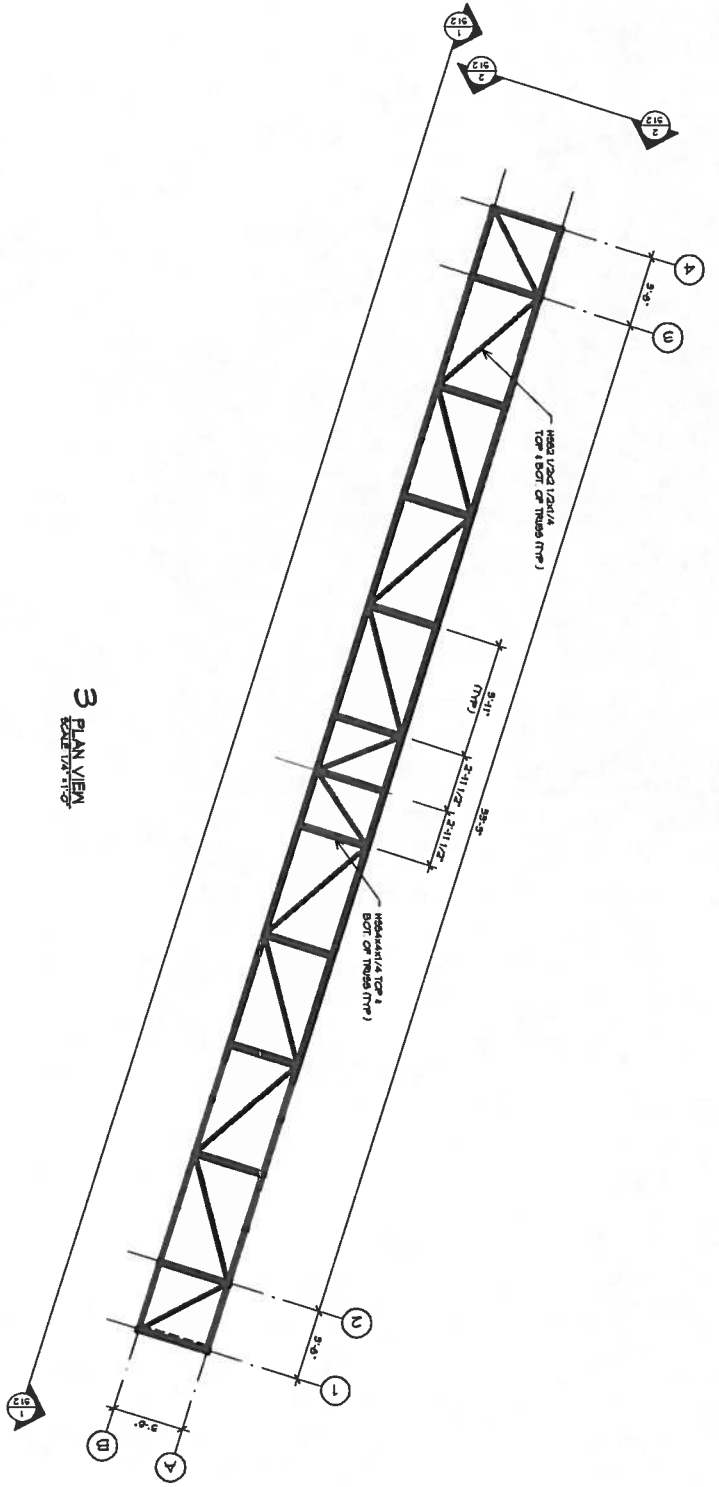
Date: 10-22-2012
Project No.: 6121492
Sheet Title: PERSPECTIVE VIEWS
Drawing No.: S1.0

NRD-2012-0110
C.6



1 EAST ELEVATION
SCALE 1/4" = 1'-0"

2 SOUTH ELEVATION
SCALE 1/4" = 1'-0"



3 PLAN VIEW
SCALE 1/4" = 1'-0"

Revisions

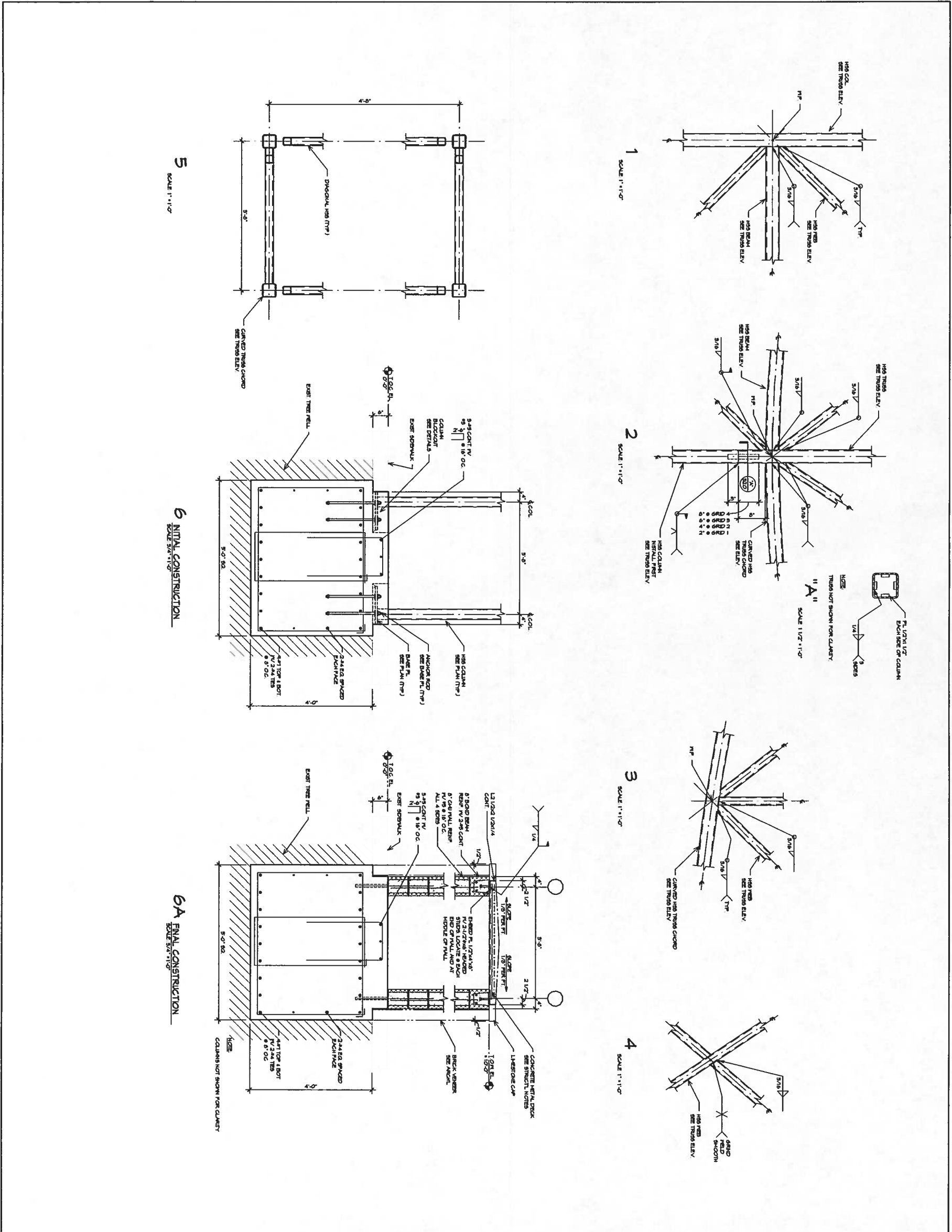
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JASTER-QUINTANILLA & ASSOCIATES, INC
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 IQ PROJECT NUMBER: 6121492 TYPE: RRM F-23




Date: 10-22-2012
 Project No.: 6121492
 Sheet Title: ELEVATIONS
 Drawing No.: S1.2



Revisions

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 T&E FORM 3-23
 RQ PROJECT NUMBER: 6121492



Date: 10-22-2012
 Project No.: 6121492
 Sheet Title: FOUNDATION & FRAMING DETAILS
 Drawing No.: S2.0

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- 1. COORDINATION**
 - A. Contractor shall coordinate the architectural, structural, mechanical, electrical, plumbing, and other services and report any discrepancies between each set of drawings and shall each set of drawings prior to fabrication and installation of any structural member.
 - B. Only larger, heavy opening or framed openings in structural framing components members are indicated on the Structural Drawings. However, all other, heavy, and opening, including frames and beams, shall be provided to coordinate with the mechanical, electrical, plumbing, and other services drawings, to determine proper location, elevation, and details and coordinate with the contractor to provide the necessary openings in the structural members.
 - C. Refer to Architectural, Mechanical, Electrical, and Plumbing drawings for floor elevations, slopes, drains and location of depressed and elevated floor areas.
 - D. Coordination of the structure and provisions for building equipment supported on or from structural components shall be verified as to size, dimensions, clearances, accessibility, weight, and reaction loads. Equipment shall be coordinated with the structure drawings prior to construction of the equipment and the structure. Equipment shall be coordinated with the structure drawings and the contractor shall be responsible for providing the necessary openings in the structural members.
 - E. Shop drawings shall be prepared for all structural items and submitted for review by the Engineer. Structural Drawings shall not be reproduced and used as shop drawings. All items deviating from the Structural Drawings or from previously submitted shop drawings shall be detailed.
 - F. Contractor shall review shop drawings for compliance with the Structural Drawings and shall certify the drawings are in accordance with the Structural Drawings. The drawings shall be stamped and signed by the Engineer or his/her designee. The drawings shall be stamped and signed by the Engineer or his/her designee. The drawings shall be stamped and signed by the Engineer or his/her designee.
 - G. Contractor shall be responsible for design caused by rejection of manufacturer shop drawings.
 - H. Before rework and return of shop drawings is required or requested, the Engineer will review each drawing and where possible, return within 2 weeks of receipt.
 - I. Construction of concrete on shop drawings or manufacturing shop drawings shall not require the Contractor to coordinate with the requirements of the Structural Drawings. Contractor is responsible for continuing and coordinating the work with that of other contractors.
 - J. Refer to individual sections for specific structural requirements.
 - K. Contractor shall submit one reproducible copy and three minimum copies. Engineer will review, comment, and return one copy of each submitted and rewriter comments on the remaining copies for distribution to the Architect, Owner, and Contractor. Additional copies submitted will not have comments transferred to them. Distributing Engineers comments to their subcontractors.
 - L. **CODES**
 - A. The general Building Code used as the basis for the structure design is as follows:
 1. International Building Code, 2009 Edition
 2. Structural Concrete Building Code Requirements for Reinforced Concrete, American Concrete Institute, ACI 308, as referenced by the general Building Code.
 3. Concrete Masonry Building Code Requirements for Concrete Masonry Structures, American Concrete Institute, ACI 530, as referenced by the general Building Code.
 4. Structural Steel, Manual of Steel Construction, American Institute of Steel Construction, Inc., 13th Edition, Allowable Stress Design and Plastic Design, as referenced by the general Building Code.
- 14. GENERAL NOTES**
 - A. Dead loads include the self-weight of the structural elements and the following superimposed loads:
 1. Sign weight: 9 psf
 2. Live loads: UNIFORM CONCENTRATED
 - B. Live loads: UNIFORM CONCENTRATED
 - C. Wind loads: UNIFORM CONCENTRATED
 - D. Wind loads: UNIFORM CONCENTRATED
 - E. Wind loads: UNIFORM CONCENTRATED
 - F. Wind loads: UNIFORM CONCENTRATED
 - G. Wind loads: UNIFORM CONCENTRATED
 - H. Wind loads: UNIFORM CONCENTRATED
 - I. Wind loads: UNIFORM CONCENTRATED
 - J. Wind loads: UNIFORM CONCENTRATED
 - K. Wind loads: UNIFORM CONCENTRATED
 - L. Wind loads: UNIFORM CONCENTRATED
 - M. Wind loads: UNIFORM CONCENTRATED
 - N. Wind loads: UNIFORM CONCENTRATED
 - O. Wind loads: UNIFORM CONCENTRATED
 - P. Wind loads: UNIFORM CONCENTRATED
 - Q. Wind loads: UNIFORM CONCENTRATED
 - R. Wind loads: UNIFORM CONCENTRATED
 - S. Wind loads: UNIFORM CONCENTRATED
 - T. Wind loads: UNIFORM CONCENTRATED
 - U. Wind loads: UNIFORM CONCENTRATED
 - V. Wind loads: UNIFORM CONCENTRATED
 - W. Wind loads: UNIFORM CONCENTRATED
 - X. Wind loads: UNIFORM CONCENTRATED
 - Y. Wind loads: UNIFORM CONCENTRATED
 - Z. Wind loads: UNIFORM CONCENTRATED
- CONCRETE**
 - A. Concrete shall conform to the requirements as specified in the table below, unless noted otherwise on the Structural Drawings.

Designation	Concrete Strength	Modulus of Elasticity
A	4000 PSI	4.03E4
B	4000 PSI	4.03E4
C	4000 PSI	4.03E4
D	4000 PSI	4.03E4
E	4000 PSI	4.03E4
F	4000 PSI	4.03E4
G	4000 PSI	4.03E4
H	4000 PSI	4.03E4
I	4000 PSI	4.03E4
J	4000 PSI	4.03E4
K	4000 PSI	4.03E4
L	4000 PSI	4.03E4
M	4000 PSI	4.03E4
N	4000 PSI	4.03E4
O	4000 PSI	4.03E4
P	4000 PSI	4.03E4
Q	4000 PSI	4.03E4
R	4000 PSI	4.03E4
S	4000 PSI	4.03E4
T	4000 PSI	4.03E4
U	4000 PSI	4.03E4
V	4000 PSI	4.03E4
W	4000 PSI	4.03E4
X	4000 PSI	4.03E4
Y	4000 PSI	4.03E4
Z	4000 PSI	4.03E4
 - B. A minimum of 20% of the construction materials used in the design may be replaced with Class C or F fly ash.
 - C. Provide 5 percent air or more 1/2 percent of entrained air in concrete permanently exposed to the weather and deicers.
 - D. Expanded concrete pits, and deicers shall meet the requirements of ACI 308, Section 3.1, including the following:
 1. Combs and pits embedded within a slab, wall, or beam (other than those cast-in-place) shall not be larger in diameter than 1/2 the overall thickness of the slab, wall, or beam in which they are embedded.
 2. Combs, pits, and deicers shall not be spaced closer than three diameters or widths on center.
 3. Spacing of reinforcement shall be in accordance with ACI 308, Chapter 18. Reinforcement shall be placed in a minimum of 3 inches from the surface of concrete.
 4. Reinforcement shall be placed in a minimum of 3 inches from the surface of concrete.
 5. Reinforcement shall be placed in a minimum of 3 inches from the surface of concrete.
 - E. All rebar shall be lap spliced to comply with the ACI 308, Chapter 18, including the following:
 1. All lap splices shall be in tension zone.
 2. Lap splices shall be staggered.
 3. Lap splices shall be staggered.
 4. Lap splices shall be staggered.
 5. Lap splices shall be staggered.
 6. Lap splices shall be staggered.
 7. Lap splices shall be staggered.
 8. Lap splices shall be staggered.
 9. Lap splices shall be staggered.
 10. Lap splices shall be staggered.
 - F. Reinforcement shall be placed in a minimum of 3 inches from the surface of concrete.
 - G. Reinforcement shall be placed in a minimum of 3 inches from the surface of concrete.
 - H. Reinforcement shall be placed in a minimum of 3 inches from the surface of concrete.
 - I. Reinforcement shall be placed in a minimum of 3 inches from the surface of concrete.
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 - V. Reinforcement shall be placed in a minimum of 3 inches from the surface of concrete.
 - W. Reinforcement shall be placed in a minimum of 3 inches from the surface of concrete.
 - X. Reinforcement shall be placed in a minimum of 3 inches from the surface of concrete.
 - Y. Reinforcement shall be placed in a minimum of 3 inches from the surface of concrete.
 - Z. Reinforcement shall be placed in a minimum of 3 inches from the surface of concrete.
- STEEL**
 - A. Steel shall conform to the requirements as specified in the table below, unless noted otherwise on the Structural Drawings.

Designation	Steel Grade	Modulus of Elasticity
A	A36	29,000,000
B	A36	29,000,000
C	A36	29,000,000
D	A36	29,000,000
E	A36	29,000,000
F	A36	29,000,000
G	A36	29,000,000
H	A36	29,000,000
I	A36	29,000,000
J	A36	29,000,000
K	A36	29,000,000
L	A36	29,000,000
M	A36	29,000,000
N	A36	29,000,000
O	A36	29,000,000
P	A36	29,000,000
Q	A36	29,000,000
R	A36	29,000,000
S	A36	29,000,000
T	A36	29,000,000
U	A36	29,000,000
V	A36	29,000,000
W	A36	29,000,000
X	A36	29,000,000
Y	A36	29,000,000
Z	A36	29,000,000
 - B. All steel shall be galvanized to meet the minimum requirements of the ACI 308, Chapter 18, including the following:
 1. All steel shall be galvanized to meet the minimum requirements of the ACI 308, Chapter 18, including the following:
 - a. All steel shall be galvanized to meet the minimum requirements of the ACI 308, Chapter 18, including the following:
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<p>shaping the built environment</p> <p style="text-align: center;">MASTER-QUINTANILLA & ASSOCIATES, INC.</p> <p style="text-align: center;">1808 WEST 6TH STREET, SUITE 100 AUSTIN, TEXAS 78703 512.474.9294 JOENGD.COM</p> <p style="text-align: center;">PROJECT NUMBER: 6121492</p>	<h1>East Sixth Street Sign Structure</h1> <h2>East 6th Street, Austin TX</h2>	<p>Revisions</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>No.</th> <th>Description</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Description	Date												
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<p>Date: 10-22-2012 Project No.: 6121492 Sheet Title: STRUCTURAL NOTES Drawing No.: S3.0</p>	<p style="text-align: center;">INTERNET DOCUMENTS</p> <p style="text-align: center;">THIS DOCUMENT IS AVAILABLE ONLINE AT THE FOLLOWING URL: WWW.AECAD.CORP.COM</p>																

SPECIAL INSPECTIONS

1. Special inspections shall be performed in accordance with Chapter 11 of the 2004 International Building Code (IBC) by a Special Inspector hired by the Owner to perform the special inspections listed below. The Special Inspector shall be qualified by an approved agency according to the City's building official to perform the special inspections for which they will be inspecting. The Contractor shall coordinate with and notify the Special Inspector in all detail. The Special Inspector shall be responsible for verifying that the drawings, reports, and other documents submitted by the Contractor are accurate and that the Contractor furnishes inspection reports to the building official and the Architect for all time spent at the site. The Inspector shall bring discrepancies to the immediate attention of the general Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and to the Architect prior to the completion of the phase of the work. These special inspections are in addition to the other inspections listed in these Structural Notes or Project special notes.

2. Where structural load-bearing members and assemblies are shop fabricated, the Special Inspector shall verify that the fabricator maintains detailed fabrication and quality control procedures that provide a basis for inspection control of the workmanship and the fabricator's ability to conform to the Construction Documents and Referenced Standards, unless the fabricator is registered and approved to perform such work without special inspection.

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	BC REFERENCE
		CONTINUOUS	PERIODIC		
YES	1. Material verification of high strength bolts, nuts, and washers.			ASCE 360 Section A3.3 and applicable ASTM material standards	---
YES	a. Identification markings to conform to ASTM standards specified in the approved construction documents.		X		---
YES	b. Manufacturer's certificate of compliance required.		X		---
YES	2. Inspection and high strength bolting a. Single-flange joints b. Pre-tensioned and slip critical connections using slip critical fasteners with or without tension indicator methods of bolting c. Pre-tensioned and slip critical joints using turn-of-nut without marking or calibrated wrench methods of installation		X	ASCE 360 Section 10.2.5	TC4.3.9
NO	3. Material verification of structural steel: a. For structural steel, identification markings to conform to ASCE 360		X	ASCE 360 Section 10.5	
YES	a. For other steel, identification markings to conform to ASTM standards in the approved construction documents.		X	Applicable ASTM material standards	
YES	c. Manufacturer's certified test reports.		X		
4. Material verification of used filler materials					
YES	a. Identification markings to conform to ASCE specifications in the approved construction documents.		X	ASCE 360 Section A3.3 and applicable ASCE documents	---
YES	b. Manufacturer's certificate of compliance required.		X		---
5. Inspection of welding a. Structural steel and cold form steel deck 1) Complete and partial penetration groove welds 2) Butt joints, flat, webs 3) Single-pass flat welds 1/8"/16" 4) Plug and slot welds 5) Single-pass flat welds 1/8"/16" 6) Floor and roof deck welds. b. Reinforcing steel: 1) Verification of weldability of reinforcing steel other than ASTM A706. 2) Reinforcing steel-reinforcing materials and axial forces in frames, and boundary elements of frames and columns. 3) Shear reinforcement. 4) Other reinforcing steel.					
NO	1) Verification of weldability of reinforcing steel other than ASTM A706.		X	ASCE D14 ACI 308.5.5.2	---
NO	2) Reinforcing steel-reinforcing materials and axial forces in frames, and boundary elements of frames and columns.	X			
NO	3) Shear reinforcement	X			
NO	4) Other reinforcing steel	X			
6. Inspection of steel frame joint details for compliance a. Details such as bracing and stiffening b. Member locations c. Application of joint details at each connection					
YES	a. Details such as bracing and stiffening		X		TC4.3.2
YES	b. Member locations		X		
YES	c. Application of joint details at each connection		X		

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	BC REFERENCE
		CONTINUOUS	PERIODIC		
YES	1. Inspection of reinforcing steel and placement.		X	ACI 308.3.5. 11.7.1	119.4
NO	2. Inspection of reinforcing steel welding in accordance with Table TC4.3. Item 5b.			ASCE C14 ACI 308.3.5.2	---
YES	3. Inspect forms to be installed in concrete prior to and during placement of concrete where allowable tolerances have been increased or where strength drying is used.	X		ACI 308.6.1.19 21.2.8	119.15 119.17
YES	4. Inspection of rebar installed in hardened concrete.		X	ACI 308.6.1.19 21.2.8	119.11
YES	5. Verifying use of required design mix.		X	ACI 308.7.4. 5.2-5.4	119.4.2. 119.2. 119.3

REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	BC REFERENCE
		CONTINUOUS	PERIODIC		
YES	6. At the time fresh concrete is placed, the contractor shall provide for air-curing blankets, and determine the temperature of the concrete.	X		ASTM C 172 ASTM C 31 ACI 308.5.6, 5.9	119.10
YES	7. Inspection of concrete placement for proper application techniques.	X		ACI 308.5.4, 5.10	119.6, 119.7, 119.8
YES	8. Inspection for readiness of steel reinforcement techniques and techniques.		X	ACI 308.5.11-5.19	119.9
NO	9. Application of prestressing concrete forces. a. Application of prestressing tendons in the seismic-force-resisting system 10. Erection of precast concrete members	X		ACI 308.18.20 ACI 308.18.18.4	---
NO	11. Verification of in-situ concrete strength, and prior to removal of shores and forms from beams and slabs at steps.		X	ACI 308.6.2	---
YES	11. Impact formwork for slabs: concrete members being formed		X	ACI 308.6.1.1	---

LEVEL 1 REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION

SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	BC REFERENCE
		CONTINUOUS	PERIODIC		
YES	1. Compliance with required inspection provisions of the construction documents shall be verified.		X	---	Art. 1.5
YES	2. Verification of the and TAC prior to acceptance by the code.		X	---	Art. 1.4B
YES	3. Verification of damp proof and VSI as self-consolidating grout.	X		---	Art. 1.5B.1b.9
4. As masonry construction begins, the following shall be verified to ensure compliance: a. Proportions of site prepared mortar. b. Construction of mortar joints. c. Location of reinforcing tendons and anchors. d. Prestressing techniques. e. Grade and size of prestressing tendons and anchors. 5. During construction the inspection program shall verify: a. Size and location of structural elements. b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction. c. Specified size, grade, and type of reinforcement and anchor bolts. d. Welding of reinforcing bars. e. Production, condition and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F). f. Application and measurement of prestressing force. g. Prior to grouting, the following shall be verified to ensure compliance: 1) Grout space is clean. 2) Placement of reinforcement and connections. 3) Proportions of site-prepared grout. 4) Construction of mortar joints. 5. Grout placement shall be verified to ensure compliance. a. Grouting of prestressing bonded tendons. b. Preparation of lay required grout specimens, mortar specimens and/or prism shall be observed.					
YES	a. Proportions of site prepared mortar.		X	---	Art. 2.6A
YES	b. Construction of mortar joints.		X	---	Art. 3.5B
YES	c. Location of reinforcing tendons and anchors.		X	---	Art. 3.4, 3.6A
NO	d. Prestressing techniques.		X	---	Art. 3.4B
NO	e. Grade and size of prestressing tendons and anchors.		X	---	Art. 2.4B, 2.4A
YES	a. Size and location of structural elements.		X	---	Art. 3.9F
YES	b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.		X	SEC. 1.2(1)(d) 1.8.1	---
YES	c. Specified size, grade, and type of reinforcement and anchor bolts.		X	SEC. 1.15	Art. 2.4, 3.4
NO	d. Welding of reinforcing bars.	X		SEC. 2.18(1.2) 5.3(5.4)(f)	---
YES	e. Production, condition and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).		X	---	Art. 1.6K, 1.6D
NO	f. Application and measurement of prestressing force.	X		---	Art. 3.4B
YES	g. Prior to grouting, the following shall be verified to ensure compliance: 1) Grout space is clean. 2) Placement of reinforcement and connections. 3) Proportions of site-prepared grout. 4) Construction of mortar joints. 5. Grout placement shall be verified to ensure compliance. a. Grouting of prestressing bonded tendons. b. Preparation of lay required grout specimens, mortar specimens and/or prism shall be observed.		X	---	Art. 3.5D
YES	a. Grout space is clean.		X	---	Art. 3.4
YES	b. Placement of reinforcement and connections.		X	SEC. 1.19	Art. 3.4
YES	c. Proportions of site-prepared grout.		X	---	Art. 2.6B
YES	d. Construction of mortar joints.		X	---	Art. 3.5B
YES	5. Grout placement shall be verified to ensure compliance.	X		---	Art. 3.5
NO	a. Grouting of prestressing bonded tendons.		X	---	Art. 3.6C
YES	b. Preparation of lay required grout specimens, mortar specimens and/or prism shall be observed.		X	SEC. 2.18(2.2) 21(2.3)	Art. 1.4

Revisions

East Sixth Street Sign Structure
East 6th Street, Austin TX

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TYPE: RHM-F-321
PROJECT NUMBER: 6121492



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