MTGL

Geotechnical Engineering
Construction Inspection
Materials Testing
Environmental

Office Locations

Orange County Corporate Branch:
2992 E. La Palma Avenue
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6295 Ferris Square
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800.491.2990

San Diego Dispatch
888.844.5060

www.mtglinc.com

October 29, 2020

Newport Mesa Unified School District
2985 Bear St.
Costa Mesa, CA 92626

Re: Amendment for Budget Increase
Project Name: Security Fence Ensign

MTGL's services are base as an "On Call as Needed" to conform to the contractors' schedule. I am requesting an amendment to increase the budget for services to completion. The total increase we are requesting is **$45,842.90.**

Thank you for your consideration and as always, we appreciate your patronage.
Sincerely,

Cynthia Bright\Contract Administrator

10/30/2020

A. Garcia

Facilities Proposal Review	
Project: Ensign Security Fence DSA Lab Inspection for Security Fence	
Date: 10/30/2020	Days: 180
Acct: 6280	By: FJI
Copy: fibarra@pinnerconstr	AA: Yes ⊙ No ○

Stu A Morris **10/30/20**

CONSTRUCTION SERVICES

PROFESSIONAL SERVICES

Principal Engineer / Geologist	$ 150.00	Per Hour
Registered Civil Engineer / Geologist	$ 120.00	Per Hour
Staff Engineer / Geologist	$ 90.00	Per Hour
Inspection / Laboratory Supervisor	$ 90.00	Per Hour
Project Manager	$ 90.00	Per Hour
Draftsperson	$ 70.00	Per Hour
Word Processing	$ 50.00	Per Hour
Review of files for processing affidavits and certifications required by various Governmental Agencies	$ 90.00	Per Hour
Legal Consultation, Expert Witness and Court Appearances (Minimum 4 Hours)	$ 250.00	Per Hour

ENVIRONMENTAL SERVICES

Certified Asbestos Consultant	$ 85.00	Per Hour
Certified Asbestos Inspector	$ 65.00	Per Hour
Certified Asbestos Project Manager	$ 75.00	Per Hour
Certified Asbestos Project Designer	$ 75.00	Per Hour
Certified Site Surveillance Technician	$ 65.00	Per Hour
On-Site 582 Certified Microscopist	$ 65.00	Per Hour
Certified Lead Inspector / Assessor	$ 65.00	Per Hour
Certified Lead Project Monitor	$ 65.00	Per Hour
Certified Industrial Hygienist	$ 180.00	Per Hour
Environmental Site Assessment (Phase I)	$ 95.00	Per Hour
Environmental Site Assessment (Phase II)	$ 95.00	Per Hour
Industrial Hygienist	$ 100.00	Per Hour

(Prices based on 2 Hour Minimum & Test Samples Additional)

PROJECT SERVICES

Special Inspection	$ 117.00	Per Hour
Soils/Asphalt Technician	$ 117.00	Per Hour
Quality Control Manager	$ 117.00	Per Hour
Roofing Technician	$ 117.00	Per Hour
Batch Plant (Concrete or Asphalt)	$ 117.00	Per Hour
Technician - Laboratory and Field	$ 117.00	Per Hour
Pull-Out Test on Embedded Bolts/ Anchors and Dowels	$ 117.00	Per Hour
Ultrasonic, Dye Penetrant, or Magnetic Particle, Fabrication Inspection	$ 117.00	Per Hour
Pachometer/ Schmidt Hammer/Elcometer/ Torque	$ 117.00	Per Hour
Multi-Certified Inspector	$ 125.00	PerHour
Concrete, Masonry, Asphalt Coring or Sawing	$ 163.00	Per Hour
Floor Flatness / Levelness (Inc. Equipment)	$1,203.00	Per Day
Emissivity	$ 117.00	Per Hour
Ground Rod Test	$ 117.00	Per Hour

EQUIPMENT

Pick-Up and Delivery - Miscellaneous	$ 50.00	Per Trip
Skidmore-Wilhelm Bolt Cell	$ 40.00	Per Day
Torque Wrench	$ 15.00	Per Day
Air Meter	$ 20.00	Per Day
Pachometer	$ 50.00	Per Day
Schmidt Hammer	$ 30.00	Per Day
Ultrasonic Equipment	$ 40.00	Per Day
Magnetic Particle Equipment	$ 50.00	Per Day
Dye Penetrant Equipment	$ 30.00	Per Day
Jacking Assembly	$ 25.00	Per Day
Nuclear Density Gauge	$ 85.00	Per Day
Mobile Soils Laboratory	$ 40.00	Per Day
Coring Equipment	$ 50.00	Per Day
Emissivity Test Kit	$ 40.00	Each
Ground Rod Equipment	$ 40.00	Per Day

TESTING MACHINES

Testing Machine with Operator in Laboratory		
0 - 60,000 Pound Machine (Universal)	$ 125.00	Per Hour
800,000 Pound Machine (Universal)	$ 200.00	Per Hour

CONCRETE

STRENGTH CHARACTERISTICS

A.S.T.M.			
C39	Concrete Cylinders (6” x 12”) W/ Mold	$ 35.00	Each
C495	Lightweight Fill Concrete (3” x 6”)	$ 35.00	Each
C39	Concrete or Gunite Cores, 6" Maximum Diameter, Including Trim	$ 35.00	Each
C496	Splitting Tensile	$ 50.00	Each
C78	6” x 6” Beams, Modulus of Rupture	$ 50.00	Each
	Handling Charge, Cylinders Not Broken/Hold	$ 10.00	Each
	Handling Charge, Beams Not Broken/Hold	$ 40.00	Each
C469	Modulus of Elasticity	$ 75.00	Each

MIX DESIGN

A.S.T.M.			
C192	Laboratory Trial Batch with Slump, and 6 Cylinders/Prisms Unit Weight, Air, (Sampling Extra)	$ 350.00	Each
	Mix Design, Determination of Proportions	$ 150.00	Each
	Review of Existing Mix Design	$ 125.00	Each

MISCELLANEOUS TESTING

C567	Unit Weight of Hardened Light Weight Concrete	$ 40.00	Each
C684	Rapid Cure Concrete Cylinders (Boil Method)	$ 30.00	Each
C157	Drying Shrinkage (3 Bars - Four Readings, up to 90 Days)	$ 200.00	Set
C495	Lightweight Fill Concrete Density	$ 30.00	Each

MASONRY

STRENGTH CHARACTERISTICS

C780	Mortar Cylinders (2” x 4”) w/ mold	$ 35.00	Each
C109	Mortar Cubes (2” x 2”) w/ mold	$ 35.00	Each
C39	Grout Prisms (3” x 6”) w/ mold	$ 35.00	Each
	Handling Charge, Mortar or Prisms Not Broken/Hold	$ 10.00	Each
C140	Block Compression ≤ 8” x 8” x 16”	$ 35.00	Each
C140	Block Compression > 8” x 8” x 16”	$ 45.00	Each
E447	Grouted Masonry Prism Compression Test ≤ 8” x 8” x 16”	$ 100.00	Each
E447	Grouted Masonry Prism Compression Test > 8” x 8” x 16”		Quotation
	Handling Charge, Grouted Prisms Not Broken/Hold	$ 75.00	Each

BLOCK

A.S.T.M.			
C140	Moisture Content and Absorption	$ 45.00	Each
C140	Measurements	$ 25.00	Each
C67	Masonry Efflorescence	$ 45.00	Each
C426	Linear Shrinkage (CMA Method)	$ 95.00	Each
	Rapid Linear Shrinkage (British Modified Method)	$ 75.00	Each
C952	Bond Strength	$ 50.00	Each
C39	Masonry Core - Compression	$ 35.00	Each
	Masonry Core - Shear	$ 65.00	Each

BRICK

A.S.T.M.			
C67	Compression	$ 35.00	Each
C67	Modulus of Rupture	$ 35.00	Each
C67	Absorption, Soak	$ 25.00	Each
C67	Absorption, Boil	$ 25.00	Each
C67	Absorption, Saturation Coefficient	$ 35.00	Each
C67	Initial Rate of Absorption	$ 35.00	Each
C67	Efflorescence	$ 45.00	Each
C67	Efflorescence with Mortar	$ 55.00	Each

STEEL

REINFORCEMENT

A.S.T.M.			
A615	No. 11 Bar and Smaller	$ 65.00	Each
	No. 14, No. 18	Quotation	
A615	Bend Test No. 11 Bar and Smaller	$ 60.00	Each
	Processing Mill Certificates (Per Size and Heat)	$ 20.00	Each

STRUCTURAL STEEL

A.S.T.M.			
A370	Tensile Strength Up to 100,000 lbs	$ 45.00	Each
	100,000 to 200,000 lbs	$ 55.00	Each
	Bend Test	$ 35.00	Each
	Pipe Flattening Test	$ 30.00	Each
	Bolt Tensile Test	$ 35.00	Each
	Bolt Proof Test	$ 25.00	Each
	Nut Proof Test	$ 20.00	Each
	Nelson Stud Tensile Test	$ 35.00	Each
	Machining and Preparation of Samples	$ 35.00	Each
	Brinell & Rockwell Hardness Test	$ 35.00	Each
	Processing Mill Certificates (Per Size and Heat)	$ 25.00	Each
	Chemical Analysis	$ 75.00	Each

PRESTRESS

A.S.T.M.			
A416	Prestress Cable, 7 Wire (Yield / Tensile)	$ 150.00	Each
A416	Prestress Wire (Yield / Tensile)	$ 140.00	Each
	Sample Preparation	$ 45.00	Per Hour

WELD PROCEDURE AND WELDER QUALIFICATIONS

	Welder Certification (AWS)	$ 55.00	Per Hour

STRUCTURAL STEEL COUPON

	Weld Tensile Test	$ 40.00	Each
	Weld Bend Test	$ 30.00	Each
	Weld-Macro Etch	$ 50.00	Each
	Machining and Preparation of Samples	$ 35.00	Each

FIREPROOFING

UBC 7-6	Unit Weight	$ 35.00	Each
ASTM-736	Adhesion/Cohesion	$ 15.00	Each

ROOFING

	Unit Weight	$ 55.00	Each
UBC 15-5	Tile (Breaking Strength/ Absorption)	$ 60.00	Each
	Mineral Shake - Flexural	$ 35.00	Each
	Mineral Shake - Absorption	$ 25.00	Each

SOIL AND AGGREGATE

CLASSIFICATION

A.S.T.M.			
C136	Sieve Analysis (> #4 Sieve)	$ 40.00	Each
C136	Sieve Analysis (<#4 Sieve)	$ 40.00	Each
D422	Sieve Analysis (< #4 Sieve, Washed)	$ 50.00	Each
D1140	#200 Wash	$ 30.00	Each
D422	Sieve Analysis - Combined	$ 60.00	Each
D422	Hydrometer with Sieve Analysis	$ 125.00	Each
D4318	Liquid and Plastic Limit	$ 90.00	Each
D2419			
CAL TM 217	Sand Equivalent (Set of Three)	$ 65.00	Set
CAL TM 217	Cleanness Value	$ 230.00	Each

PHYSICAL CHARACTERISTICS

A.S.T.M.			
C127	Specific Gravity and Absorption (> #4 Sieve)	$ 75.00	Each
C128/D854	Specific Gravity and Absorption (< #4 Sieve)	$ 65.00	Each
C127	Specific Gravity (> #4 Sieve)	$ 60.00	Each
C128/D854	Specific Gravity (< #4 Sieve)	$ 50.00	Each
D2216	Moisture Content	$ 15.00	Each
D3080	Direct Shear Quick Undisturbed	$ 100.00	Each
	Direct Shear Slow Undisturbed	Quotation	
D3080	Direct Shear Quick Remolded	$ 160.00	Each
	Direct Shear Slow Remolded	Quotation	
D2166	Unconfined Compression	$ 60.00	Each
D2435	Consolidation - Time Rate	$ 275.00	Each
D2435	Consolidation - Without Time Rate	$ 175.00	Each
UBC 18-2	Expansion Index	$ 90.00	Each
D2434	Permeability - Undisturbed	$ 270.00	Each
D2434	Permeability - Remolded	$ 425.00	Each

SUBGRADE SUPPORT QUALITY

A.S.T.M.			
D1883	Bearing Ratio w/o M. D. Curve - Per Point	$ 80.00	Each
D2844			
CAL TM 301	R-Value (3 Points)	$ 190.00	Each

Lime, Cement or Bituminous Treatment available upon request.

DENSITY CHARACTERISTICS

A.S.T.M.			
D2937	Moisture / Density (Ring)	$ 25.00	Each
D1557-A,B	Maximum Density	$ 290.00	Each
D1557-C	Maximum Density	$ 290.00	Each
D698-A,B	Maximum Density	$ 290.00	Each
D698-C	Maximum Density	$ 290.00	Each
	Check Point (Maximum Density)	$ 70.00	Each
C29	Unit Weight - Loose	$ 35.00	Each
C29	Unit Weight - Rodded	$ 40.00	Each
CAL TM 216	Maximum Density	$ 190.00	Each

CHEMICAL PROPERTIES

CAL TMs			
532/643	Resistivity	$ 75.00	Each
532/643	pH	$ 45.00	Each
CAL TM 417	Sulphate	$ 55.00	Each
CAL TM 422	Chloride	$ 55.00	Each
	Corrosivity Series	$ 165.00	Each
	Chemical Analysis	$ 75.00	Each

AGGREGATE PROPERTIES

A.S.T.M.			
C131	LA Abrasion	$ 140.00	Each
C535	LA Abrasion	$ 150.00	Each
C88	Soundness	$ 275.00	Each
C40	Organic Impurities	$ 40.00	Each
C142	Clay Lumps / Friable Particles	$ 90.00	Each
C235	Soft Particles	$ 75.00	Each
C123	Coal & Lignite	$ 100.00	Each
CRD 119	Percent Elongation / Flats	$ 145.00	Each
CAL TM 205	Percent Crushed	$ 100.00	Each
CAL TM 229	Durability	$ 150.00	Each

ASPHALT CONCRETE

GENERAL TESTING

A.S.T.M.			
D2172	Bitumen Content	$ 100.00	Each
D136, C117	Gradation of Extracted Sample	$ 50.00	Each
D1188	Unit Weight - Molded Specimen or Cores	$ 50.00	Each
D2041	Theoretical Maximum Density	$ 75.00	Each
D1561, CAL TM 3D4	Compacted Maximum Density - HVEEM	$ 120.00	Each
D1559	Compacted Maximum Density - MARSHALL	$ 130.00	Each
D1664	Stripping	$ 65.00	Each

MIX DESIGN / CONTROL

A.S.T.M.			
D1560 CAL TM 336	Mix Design - HVEEM including Aggregate Tests - Per Design	$1,000.00	Each
D1159	Mix Design - MARSHALL including Aggregate Tests - Per Design	$1,200.00	Each
D1560 CAL TM 336	Field Mix - HVEEM - Stability Per Point	$ 150.00	Each
D1559	Field Mix - MARSHALL-Stability Per Point	$ 160.00	Each

BASIS OF CHARGES

1. A four-hour minimum show-up charge will be incurred for all scheduled field services not canceled before 4:00 p.m. of the preceding day. A minimum four and eight-hour charge per day with an additional one-half hour billed for reporting will be invoiced portal to portal from our Anaheim office.

2. Time and one-half will be charged for any personnel services from 4:00 PM – 6:30 AM and more than eight hours up to and including twelve hours per day. Double time will be charged for over twelve hours in any one day, Saturday and Sunday. Holidays are New Year's Day, Memorial Day, July 4th, Labor Day, Veteran's Day, Thanksgiving Day and the Friday after Thanksgiving Day, and Christmas Day and will be assessed at triple time. High priority laboratory testing at the Client's request which requires unscheduled overtime is subject to a 50% increase from the standard rates.

3. Engineering review time will be invoiced at 2 hours per week and weekly report distribution is 1 hour per week.

4. Reimbursable expenses such as parking, air fare, car rental, food and lodging will be charged at cost plus 20%, unless provided. Subsistence on remote jobs by quotation, unless provided.

5. Outside services performed by others and direct costs expended on the Client's behalf are charged at cost plus 20%, unless otherwise noted.

6. Certified Payrolls will be supplied for each billing at $ 75.00 per pay period.

8. There will be a minimum project set-up fee of $250 for obtaining plans, specifications, accounting/distribution information and filing of preliminary liens. Invoicing is performed on a monthly basis. Past due account will accumulate interest charges at the rate of 1% per month

9. Prices are based on current prevailing wage rates through July 1, 2020 at which time the hourly rates will increase $ 3.00 Per Hour to compensate for annual increases.

DSA DIVISION OF THE STATE ARCHITECT
DEPARTMENT OF GENERAL SERVICES

DSA-103 Issued 9/1/2017

List of Required Structural Tests & Special Inspections - 2016 CBC

INCREMENT #:

DSA File No.: 30-30
Application No.: 04-118248
Date Submitted: 6/25/2019
Revised:

School Name	Ensign Intermediate School	District	Newport-Mesa Unified School District

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A.
NOTE: This form is also available for projects submitted for review under the 2007, 2010, and 2013 CBC.

INSTRUCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional tests and special inspections. A shaded box indicates a test or special inspection that may be required, depending on the scope of the construction and other issues. A shaded box can be clicked indicating your selection of that test. **Note:** A minus (-) on a category or subcategory heading indicates that it can be collapsed. However, any selections you may have made will be cleared. Click on the "COMPILE" button to show only the tests and inspections finally selected.
For more information on use of this form, see DSA-103.INSTR.

Note: References are to the 2016 edition of the California Building Code (CBC) unless otherwise noted.

REQUIRED	TEST OR SPECIAL INSPECTION	TYPE[1]	PERFORMED BY[2]	CODE REFERENCE AND NOTES
-	**SOILS**			
-	**1. GENERAL:**	Table 1705A.6		
X	a. Verify that: • site has been prepared properly prior to placement of controlled fill and/or excavations for foundations, • foundation excavations are extended to proper depth and have reached proper material, and • materials below footings are adequate to achieve the design bearing capacity.	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
-	**2. COMPACTED FILLS:**	Table 1705A.6		
X	b. Verify use of proper materials, densities and inspect lift thicknesses, placement, and compaction during placement of fill.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
X	c. Test compaction of fill.	Test	LOR*	* Under the supervision of the geotechnical engineer.
-	**4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):**	Table 1705A.8		
X	a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Appendix for exemptions.)
X	e. Concrete piers.	Provide tests and inspections per CONCRETE section below.		
-	**CONCRETE**	Table 1705A.3, ACI 318-14 Sections 26.12 & 26.13		
-	**7. CAST IN PLACE CONCRETE**			
	Material Verification and Testing:			
X	a. Verify use of required design mix.	Periodic	SI*	Table 1705A.3 Item 5, 1910A.1 (1909.2.3[+]). * To be performed by qualified batch-plant inspector and concrete sampling technician
X	b. Identifiy, sample, and test reinforcing steel.	Test	LOR	1910A.2 (1909.2.4[+]); ACI 318-14 Section 26.6.1.2. DSA IR 17-10.16
X	c. During concrete placement, fabricate specimens for strength tests,perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-14 Sections 26.5 & 26.12
X	d. Test concrete (f'_c).	Test	LOR	1905A.1.16 (1909.3.7[+]); ACI 318-14 Section 26.12.
	Inspection:			
X	e. Batch plant inspection ○ Continuous ◉ Periodic	See Notes	SI	Default of 'Continuous' per 1705A.3.3; If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1 or eliminated per 1705A.3.3.2. (See Appendix for exemptions.)
-	**11. POST-INSTALLED ANCHORS:**			
X	a. Inspect installation of post-installed anchors	See Notes	SI*	Table 1705A.3 Item 4a (Continuous) & 4b (Periodic) (see Appendix for exemptions). ACI 318-14 Sections 17.8 & 26.13 * May be performed by the project inspector when specifically approved by DSA.
X	b. Test post-installed anchors.	Test	LOR	1910A.5 (1909.2.7[+]). (See Appendix for exemptions.)
-	**MASONRY**	TMS 402-13/ACI 530-13/ASCE 5-13 Table 3.1.3 & TMS 602-13/ACI 530.1-13/ASCE 6-13 Table 5		
-	**13. STRUCTURAL MASONRY:**	Enter f'_m	2000	psi
	Material Verification and testing:			
X	a. Mill certificate indicates compliance with requirements for reinforcement, anchors, ties, fasteners, and metal accessories. See item 7b above for identification, sampling, and testing of reinforcing steel.	Periodic	SI*	2103A.4 (2103.4[+]), TMS 602-13 Article 1.5B.2 & 2.4. * To be performed by qualified LOR representative. Applicable testing by LOR. See IR 17-10.16 for unidentified reinforcing steel.
X	b. Producer's certificate of compliance for masonry units, mortar and grout materials.	Test	LOR	1705A.4
X	c. Test masonry (f'_m).	Test	LOR	1705A.4. For Unit Strength: 2105A.3 (2114.6.1[+]), TMS 602-13 Article 1.4B.2 ,1.5B.1 & 1.5B.2. For Prism (required when f'_m > 2000 psi): 2105A.2, TMS 602-13 Article 1.4B.3, 1.4B.4, 1.5B.1 & 1.5B.2.
X	d. Verify proportions of site-prepared, premixed or preblended mortar and grout.	Periodic	SI	TMS 402-13 Table 3.1.3 Item 2a, TMS 602-13 Table 5 Item 2a.
X	e. Test core-drilled samples.	Test	LOR	2105A.4 (2114.6.2[+]). (See appendix for exemptions.)
	Inspection:			
X	f. Inspect preparation of prisms.	Continuous	SI	TMS 402-13 Table 3.1.3 Item 3, TMS 602-13 Article 1.4.B.3 & 1.4.B.4 & Table 5 Item 3.
X	g. Verify size, location and condition of all dowels, construction supporting masonry, etc.	Periodic	SI	
X	h. Verify size, grade, and type of reinforcement and anchor bolts.	Periodic	SI	TMS 402-13 Table 3.1.3 Item Item 2b, TMS 602-13 Table 5 Item 2b.
X	j. Inspect placement of reinforcement and connectors.	Continuous	SI	TMS 402-13 Table 3.1.3 Item 2d, TMS 602-13 Table 5 Item 2d.
X	k. Inspect placement of masonry units and construction of mortar joints.	Periodic	SI	TMS 402-13 Table 3.1.3 Item 2c, TMS 602-13 Table 5 Item 2c.
X	l. Verify preparation, construction, and protection of masonry during cold weather (temperature below 40° F) or hot weather (temperature above 90°).	Periodic	SI*	TMS 402-13 Table 3.1.3 Item 2j; TMS 602-13 Table 5 Item 2j. * May be performed by the project inspector when specifically approved by DSA.
X	m. Inspect type, size, and location of anchors and all other items to be embedded in masonry including other details of anchorage of masonry to structural members, frames and other construction.	Continuous	SI	TMS 402-13 Table 3.1.3 Item Item 2h, TMS 602-13 Table 5 Item 2h.
X	n. Inspect grout space prior to grouting and placement of grout.	Continuous	SI	TMS 402-13 Table 3.1.3 Item Item 2e & 2f, TMS 602-13 Table 5 Item 2e & 2f.

-	**14. VENEER OR GLASS BLOCK PARTITIONS:**	**1705A.4.1, TMS 402-13 Table 3.1.2, TMS 602-13 Table 4**		
X	a. Verify proportions of site-prepared mortar and grout and/or verify certification of premixed mortar.	**Periodic**	**SI**	TMS 402-13 Table 3.1.2 Item 2a & 3d, TMS 602-13 Table 4 Item 2a & 3d.
X	b. Inspect placement of units and construction of mortar joints.	**Periodic**	**SI**	TMS 402-13 Table 3.1.2 Item 2b & 3e, TMS 602-13 Table 4 Item 2b & 3e.
X	c. Inspect placement of reinforcement, connectors and anchors.	**Periodic**	**SI**	TMS 402-13 Table 3.1.2 Item 3c, TMS 602-13 Table 4 Item 3c.
X	d. Inspect type, size, and location of anchors and all other items to be embedded in masonry including details of anchorage of masonry to structural members, frames and other construction.	**Periodic**	**SI**	TMS 402-13 Table 3.1.2 Item 2d, 3b & 4b, TMS 602-13 Table 4 Item 2d, 3b & 4b.
X	e. Verify preparation, construction, and protection of masonry during cold weather (temperature below 40° F) or hot weather (above 90°).	**Periodic**	**SI***	TMS 402-13 Table 3.1.2 Item 4d; TMS 602-13 Table 4 Item 4d. * May be performed by the project inspector when specifically approved by DS A.
-	**STEEL, ALUMINUM**	**Table 1705A.2.1, AISC 303-10, AISC 360-10, AISC 341-10, AISC 358-10, AISI S100-07/S2-10**		
-	**17. STRUCTURAL STEEL, COLD-FORMED STEEL, AND ALUMINUM USED FOR STRUCTURAL PURPOSES**			
	Material Verification:			
X	a. Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements.	**Periodic**	*	**2203A.1** (2203.1*), **Table 1705A.2.1 Item 3a-3c;** AISI S100-07/S2-10 Section A2.1 & A2.2, AISI S200-12 Section A3, AISI S220-11 Section A4. * By special inspector or qualified technician when performed off-site.
X	b. Test unidentified materials	**Test**	**LOR**	**2203A.1** (2203.1*).
X	c. Examine seam welds of HSS shapes	**Periodic**	**SI**	DSA IR 17-3.
	Inspection:			
X	e. Verify and document steel fabrication per DSA approved construction documents.	**Periodic**	**SI**	Not applicable to cold-formed steel light-frame construction, except for trusses (**1705A.2.4**).
-	**19. WELDING:**			**1705A.2.5, Table 1705A.2.1 Items 4 & 5;** DSA IR 17-3, AWS D1.1 and AWS D1.8 for structural steel, AWS D1.2 for Aluminum, AWS D1.3 for cold-formed steel, AWS D1.4 for reinforcing steel. (See Appendix for exemptions.)
	Verification of Materials, Equipment, Welders, etc:			
X	a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	**Periodic**	**SI**	DSA IR 17-3.
X	b. Verify weld filler material manufacturer's certificate of compliance.	**Periodic**	**SI**	DSA IR 17-3.
X	c. Verify WPS, welder qualifications and equipment.	**Periodic**	**SI**	DSA IR 17-3.
-	**19.1 SHOP WELDING:**			
X	a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds	**Continuous**	**SI**	**Table 1705A.2.1 Item 5a1-4.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
-	**19.2 FIELD WELDING:**			
X	b. Inspect single-pass fillet welds ≤ 5/16"	**Periodic**	**SI**	**Table 1705A.2.1 Item 5a.5.** Per AISC 360-10 (and AISC 341-10 as applicable). DSA IR 17-3.
-	**23. ANCHOR BOLTS, ANCHOR RODS, & OTHER STEEL:**			
X	a. Anchor Bolts and Anchor Rods	**Test**	**LOR**	IR 17-11 Sample and test anchor bolts and anchor rods not readily identifiable.
+	**WOOD**			
+	**OTHER**			