

# 103-22

# LIST OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS

□ Project has a geotechnical report or construction documents require special inspection by a geotechnical engineer.

☑ Project does NOT have and does NOT require a geotechnical report.

	TYPE	BY		TYPE	BY
S1   SOILS - GENERAL		C1   CAST-IN-PLACE CONCRETE		1	
S1a: Site Preparation	See Notes	PI	C1a: Mix Design	Continuous	SI
S2   COMPACTION AND FILL			C1b: Reinforcing Steel	Test	LOR
S2a: Fill Materials	Test	LOR*	C1c: Concrete Material	Test	LOR
S2b: Fill Placement	Continuous	LOR*	C1d: Strength Test	Test	LOR
□ S2c: Compaction	Test	LOR*	C1e: Batch Plant Inspection	Continuous	SI
S3   DRIVEN DEEP FOUNDATION	S (PILES)		C2   PRESTRESSED CONCRETE		
S3a: Materials and Members	Continuous	GE*	C2a: Tendons and Anchorage	Test	LOR
S3b: Pile Capacity	Test	LOR*	C2b: Tendon Placement	Periodic	SI
□ S3c: Driving Operations	Continuous	GE*	C2c: Concrete Strength	Periodic	SI
□ S3d: Pile Installation	Continuous	GE*	C2d: Stressing Operations	Continuous	SI
S3e: Specialty Piles	*	*	C3   PRECAST CONCRETE		
S4   CAST-IN-PLACE DEEP FOUN	DATIONS (P	IERS)	C3a: General Fabrication	Continuous	SI
S4a: Drilling Operations	Continuous	PI	C3b: General Erection	Periodic	SI*
□ S4b: Pier Construction	Continuous	ΡI	C3c: Diaphragm Connections	Continuous	SI
S4c: Bearing Strata	Continuous	GE*	C3d: Diaphragm Tolerances	Periodic	SI
S5   RETAINING WALLS	1	1	C4   SHOTCRETE		
S5a: Backfill Placement	Continuous	GE*	C4a: Placement	Continuous	SI
S5b: Soil Reinf. and Drainage	Continuous	GE*	C4b: Shotcrete Material	Test	LOR
□ S5c: Segmental Retaining Walls	Continuous	GE*	C5   POST-INSTALLED ANCHORS		
S6   OTHER SOILS	- ·	05*	☑ C5a: Inspection	See notes	SI*
S6a: Soil Improvement Test	Test	GE*	☑ C5b: Test	Test	LOR
□ S6b: Soil Improvement Inspection	Continuous	GE*	C6   OTHER CONCRETE		
□ S6c: Not used.	N/A	N/A	C6a: Not used.	N/A	N/A
□ S6d: Not used.	N/A	N/A	□ C6b: Not used.	N/A	N/A
□ S6e: Not used.	N/A	N/A	□ C6c: Not used.	N/A	N/A
□ S6f: Not used.	N/A	N/A	□ C6d: Not used.	N/A	N/A
□ S6g: Not used.	N/A	N/A	□ C6e: Not used.	N/A	N/A
□ S6h: Not used.	N/A	N/A	□ C6f: Not used.	N/A	N/A
□ S6j: Not used.	N/A	N/A	□ C6g: Not used.	N/A	N/A
□ S6k: Not used.	N/A	N/A	□ C6h: Not used.	N/A	N/A
□ S6m: Not used.	N/A	N/A	□ C6j: Not used.	N/A	N/A
□ S6n: Not used.	N/A	N/A	□ C6k: Not used.	N/A	N/A
□ S6p: Not used.			□ C6m: Not used.		
□ S6q: Not used.			Not used.		
See Appendix for additional information.			* See Appendix for additional information	•	

#### Project Name: Merced College School District: Merced College

		TYPE	BY	TYPE	BY
M	1   STRUCTURAL MASONRY			S/A1   STEEL AND ALUMINUM	
f'm PSI:					
	M1a: Mill Certificates - Reinf.	Periodic	SI*	☑ S/A1a: Material Identification Periodic	*
	M1b: Material Certificates	Test	LOR	☑ S/A1b: Unidentified Material Test I	LOR
	M1c: Strength Test	Test	LOR	☑ S/A1c: Steel Fabrication Periodic	SI
	M1d: Mortar Proportions	Periodic	SI	□ S/A1d: Buckling Restrained Brace Test* I	LOR
	M1e: Grout Proportions	Periodic	SI	S/A2   HIGH-STRENGTH BOLTS	
	M1f: Batch Plant Inspection		SI	□ S/A2a: Product Verification Periodic	SI
	M1g: Core Tests	Test	LOR	□ S/A2b: Bolts, Nuts, and Washers Test I	LOR
	M1h: Prisms	Continuous	SI	□ S/A2c: Snug Tight Periodic	SI
	M1i: Dowels and Supports	Periodic	SI	□ S/A2d: Pretensioned / Slip-Critical *	SI
	M1j: Reinforcement and Members	Periodic	SI	S/A3   WELDING	
	M1k: Reinforcement Placement	Continuous	SI	☑ S/A3a: Weld Material Periodic	SI
	M1I: Grout Placement	Continuous	SI	☑ S/A3b: Certificate of Compliance Periodic	SI
	M1m: Unit Layup and Joints	Periodic	SI*	☑ S/A3c: WPS and Qualifications Periodic	SI
	M1n: Cold/Hot Weather Work	Periodic	SI	S/A4   SHOP WELDING	
	M1o: Anchors and Embeds	Continuous	SI	□ S/A4a: Weld Category A Continuous	SI
	M1p: Grout Cavity	Continuous	SI	□ S/A4b: Weld Category B Periodic	SI
M	2   VENEER OR GLASS BLOCK F	PARTITIONS		□ S/A4c: Stairs and Railing Periodic	SI
	M2a: Mortar and Grout	Periodic	SI	□ S/A4d: Reinf. Steel Weldability Periodic	SI
	M2b: Unit Layup and Joints	Periodic	SI	□ S/A4e: Reinforcing Steel Continuous	SI
	M2c: Wires and Connector	Periodic	SI	S/A5   FIELD WELDING	
	M2d: Anchors and Embeds	Periodic	SI	□ S/A5a: Weld Category A Continuous	SI
	M2e: Cold/Hot Weather Work	Periodic	SI*	□ S/A5b: Weld Category B Periodic	SI
	M2f: Adhered Veneer Bond	Test	LOR	□ S/A5c: End Welded Studs Periodic	SI
M	3   POST-INSTALLED ANCHORS			□ S/A5d: Deck Welds Periodic	SI
	M3a: Inspection	Varies*	SI*	□ S/A5e: Cold-Formed Steel Periodic	SI
	M3b: Test	Test	LOR	□ S/A5f: Stairs and Railing Periodic	SI
M	4   OTHER MASONRY			□ S/A5g: Reinf. Steel Weldability Periodic	SI
	M4a: Not used.	N/A	N/A	□ S/A5h: Reinforcing Steel Continuous	SI
	M4b: Not used.	N/A	N/A	S/A6   NONDESTRUCTIVE TESTING	
	M4c: Not used.	N/A	N/A		LOR
	M4d: Not used.	N/A	N/A	0	LOR
	M4e: Not used.	N/A	N/A		N/A
	M4f: Not used.	N/A	N/A		N/A
	M4g: Not used.	N/A	N/A		N/A
	M4h: Not used.	N/A	N/A	S/A7   STEEL JOISTS AND TRUSSES	C
	M4j: Not used.	N/A	N/A	□ S/A7a: Fabrication Continuous	SI
	M4k: Not used. M4m: Not used.	N/A	N/A	S/A8   SPRAYED FIRE-RESISTANT MATERIALS	CI.
	M4m: Not used. M4n: Not used.			<ul> <li>□ S/A8a: Surface and Installation</li> <li>□ S/A8b: Density</li> <li>□ Test</li> </ul>	SI
	M4n: Not used. M4p: Not used.			,	lor Lor
•			* See Appendix for additional information.	LOK	
* See Appendix for additional information. * See Appendix for additional information.					

SXA9       ANCHOR BOLTS AND ANCHOR RODS       KI (DTHER         SXA90: Anchor Rods and Bolts       Test       LOR       X02: Non-HSB Installation Torque       Continuous       ST         SXA10: Statication       Periodic       SI       X03: Not used.       N/A       N/A         S/A10: Completed System       Periodic       SI       X03: Not used.       N/A       N/A         S/A10: Completed System       Periodic       SI       X06: Not used.       N/A       N/A         S/A10: Completed System       Periodic       SI       X06: Not used.       N/A       N/A         S/A10: Completed System       Periodic       SI       X07: Not used.       N/A       N/A         S/A11: Not used.       N/A       N/A       N/A       N/A       N/A       N/A         S/A11: Not used.       N/A       N/A       N/A       N/A       N/A       N/A         S/A11: Not used.       N/A       N/A       N/A       N/A       N/A       N/A         S/A11: Not used.       N/A       N/A       N/A       N/A       N/A       N/A         S/A11: Not used.       N/A		TYPE	BY		TYPE	BY
S/A9b: Other Threaded Rods       Test       LOR       X02: Non-HSB Installation Torque       Continuous       SI*         S/A10a: Material Verification       Periodic       SI       X03: Not used.       N/A       N/A         S/A10a: Material Verification       Periodic       SI       X04: Not used.       N/A       N/A         S/A10b: Fabrication       Periodic       SI       X04: Not used.       N/A       N/A         S/A10b: Completed System       Periodic       SI       X07: Not used.       N/A       N/A         S/A110: Not used.       N/A       N/A       N/A       N/A       N/A         S/A111: Not used.       N/A       N/A       N/A       N/A       S/A         S/A111: Not used.       N/A       N/A       N/A       N/A       S/A         S/A111: Not used.       N/A       N/A       N/A       N/A       S/A         S/A111: Not used.       N/A       N/A       N/A       N/A       N/A				•		
S/A10   STORAGE RACK SYSTEMS       N/A       N/A       N/A         S/A10: Anderial Verification       Periodic       SI       X03: Not used.       N/A       N/A         S/A10: Anchorage       Periodic       SI       X04: Not used.       N/A       N/A         S/A10: Anchorage       Periodic       SI       X05: Not used.       N/A       N/A         S/A10: Completed System       Periodic       SI       X06: Not used.       N/A       N/A         S/A110: TOTHER STEEL AND ALUMINUM       X08: Not used.       N/A       N/A       N/A         S/A110: Not used.       N/A       N/A       N/A       N/A       N/A         S/A111: Not used.       N/A		Test	LOR	X01: Product Load Test*		
S/A10a: Material Verification       Periodic       SI       X04: Not used.       N/A       N/A         S/A10b: Fabrication       Periodic       SI       X05: Not used.       N/A       N/A         S/A10b: Campleted System       Periodic       SI       X07: Not used.       N/A       N/A         S/A110: Completed System       Periodic       SI       X07: Not used.       N/A       N/A         S/A111: Not used.       N/A       N/A       X08: Not used.       N/A       N/A         S/A111: Not used.       N/A       N/A       N/A       D/A         S/A111: Not used.       N/A       N/A       N/A       D/A         S/A111: Not used.       N/A       N/A       N/A       Solis: Eligible cape foundation elements**.       Concrete/Masony: Eligible post-installed anchors**.         W1 PREFABRICATED WOOD TEUSES       Solis: Eligible cape foundation elements *.       Solis: Eligible cape foundation elements *.       Concrete/Masony:	□ S/A9b: Other Threaded Rods	Test	LOR	□ X02: Non-HSB Installation Torque	Continuous	SI*
S/A100: Fabrication       Periodic       SI       X05: Not used.       N/A       N/A         S/A101: Completed System       Periodic       SI       X05: Not used.       N/A       N/A         S/A101: Completed System       Periodic       SI       X06: Not used.       N/A       N/A         S/A111: Completed System       Periodic       SI       X06: Not used.       N/A       N/A         S/A111: Not used.       N/A       N/A       X07: Not used.       N/A       N/A         S/A111: Not used.       N/A       N/A       X06: Not used.       N/A       N/A         S/A111: Not used.       N/A       N/A       X07       Those items identified on the DSA-approved construction documents with a note indicating they are not part of the DSA approval or those items checked below are exempt from test and special inspection requirements. The project inspector shall verify all construction complies with the approved construction documents.         S/A111: Not used.       N/A       N/A       N/A         S/A111: Not used.       N/A       N/A       N/A         S/A111: Not used.       N/A       N/A       N/A         S/A111: Not used.       N/A       N/A       Soils: Eligible beep foundation elements *.       Golds: Eligible post-installed anchors**.         W11: PREFABRICATED WOOD TRUSSET       Soils:	S/A10   STORAGE RACK SYSTEMS			□ X03: Not used.	N/A	N/A
S/A10:       Anchorage       Periodic       SI       X06: Not used.       N/A       N/A         S/A10:       Completed System       Periodic       SI*       X06: Not used.       N/A       N/A         S/A11:       Completed System       Periodic       SI*       X07: Not used.       N/A       N/A         S/A11:       Not used.       N/A       N/A       X08: Not used.       N/A       N/A         S/A11:       Not used.       N/A       N/A       X07: Not used.       N/A       N/A         S/A11:       Not used.       N/A       N/A       X08: Not used.       N/A       N/A         S/A11:       Not used.       N/A       N/A       N/A       N/A       N/A         S/A11:       Not used.       N/A       N/A       N/A       DSA approval or those items checked below are exempt from test and special inspection nequirements. The project inspector shall verify all construction documents.       S/A111: Not used.       N/A       N/A         S/A111:       Not used.       N/A       N/A       Solis: Eligible caep foundation elements**.       Solis: Eligible deep foundation elements**.       Solis: Eligible approved construction documents.       Solis: Eligible approved constructal completed by and completed by an	S/A10a: Material Verification	Periodic	SI	□ X04: Not used.	N/A	N/A
S/A10d: Completed System       Periodic       SI*       N7.	S/A10b: Fabrication	Periodic	SI	□ X05: Not used.	N/A	N/A
SIA11 OTHER STEEL AND ALUMINUM       N/A       N/A       N/A       N/A       N/A       N/A         S/A11a: Not used.       N/A       N/A       X09: Not used.       N/A       N/A         S/A11b: Not used.       N/A       N/A       X10: Not used.       N/A       N/A         S/A11c: Not used.       N/A       N/A       X10: Not used.       N/A       N/A         S/A11c: Not used.       N/A       N/A       N/A       N/A       N/A         S/A11c: Not used.       N/A       N/A       N/A       N/A       N/A         S/A11f: Not used.       N/A       N/A       N/A       N/A       N/A       N/A         S/A11f: Not used.       N/A       N/A       N/A       N/A       Distribution complexition c	□ S/A10c: Anchorage	Periodic	SI	□ X06: Not used.	N/A	N/A
S/A11a: Not used.       N/A       N/A       N/A       N/A       N/A       N/A       N/A         S/A11b: Not used.       N/A       N/A       N/A       X10: Not used.       N/A       N/A         S/A11b: Not used.       N/A       N/A       N/A       N/A       N/A       N/A         S/A11b: Not used.       N/A       N/A       N/A       Those items identified on the DSA-approved construction         S/A11b: Not used.       N/A       N/A       N/A       Those items identified on the DSA-approved construction         S/A11b: Not used.       N/A       N/A       N/A       Those items identified on the DSA-approved construction         S/A11b: Not used.       N/A       N/A       N/A       DSA approval or those items checked below are exempt from test and special inspection requirements. The project inspector shall verify all construction complies with the approved construction documents.         S/A11b: Not used.       N/A       N/A       Solis: Eligible shallow foundation elements**.         S/A11b: Not used.       N/A       N/A       Solis: Eligible shallow foundation elements**.         S/A11b: Not used.       N/A       N/A       Solis: Eligible foundation elements**.         W1a: Open Web Truss Fabrication       Continuous       SI       Concrete/Masony: Eligible post-installel pachts. <t< td=""><td>S/A10d: Completed System</td><td>Periodic</td><td>SI*</td><td>□ X07: Not used.</td><td>N/A</td><td>N/A</td></t<>	S/A10d: Completed System	Periodic	SI*	□ X07: Not used.	N/A	N/A
S/A11b: Not used.       N/A       N/A       X10: Not used.       N/A       N/A         S/A11b: Not used.       N/A       N/A       X10: Not used.       N/A       N/A         S/A11d: Not used.       N/A       N/A       N/A       Those items identified on the DSA-approved construction documents with a note indicating they are not part of the DSA approval or those items checked below are exempt from test and special inspection requirements. The project inspector shall verify all construction complies with the approved construction documents.         S/A11f: Not used.       N/A       N/A         W1 PREFABRICATED WOOD TRUSSES       Soils: Eligible deep foundation elements - type 1**.         W12: Open Web Truss Fabrication       Continuous       SI         W22: GL Timber Fabrication       Continuous       SI         W22: Connec	S/A11   OTHER STEEL AND ALUMI	NUM		□ X08: Not used.	N/A	N/A
S/A11c: Not used.       N/A       N/A         S/A11c: Not used.       N/A       N/A         S/A11d: Not used.       N/A       N/A         S/A11f: Not used.       N/A       N/A         S/A11f: Not used.       N/A       N/A         S/A11g: Not used.       N/A       N/A         S/A11f: Not used.       N/A       N/A         W1a: Open Web Truss Fabrication Continuous SI       Continuous SI       Solis: Eligible deep foundation elements - type 1**.         W2a: GL Timber Fabrication       Continuous SI       Concrete/Masonry: Eligible post-installed anchors**.         W22: CLT Fabrication       Continuous SI       Concrete: Batch plant inspection 1705A.3.3.2.         W2a: Connections Type A       Periodic SI       Concrete: Masonry: Reinforcing bat testing for items listed in and complying with CBC Section 1910A.2.	□ S/A11a: Not used.	N/A	N/A	□ X09: Not used.	N/A	N/A
S/A11d: Not used.       N/A       N/A       N/A         S/A11d: Not used.       N/A       N/A       N/A         S/A11f: Not used.       N/A       N/A       S/A         S/A11f: Not used.       N/A       N/A       DS approval or those items checked below are exempt form test and special inspection requirements. The project inspector shall verify all construction complies with the approved construction documents.         S/A11f: Not used.       N/A       N/A         W1a: Open Web Truss Fabrication       Continuous       SI         W1b: Metal Plate Truss Fabrication       Continuous       SI         W2b: CLT Fabrication       Continuous       SI         W2c: Gonnections Type A       Periodic       SI         W2d: Connections Type A       Periodic       SI         W2d: Sealants       Periodic	□ S/A11b: Not used.	N/A	N/A	□ X10: Not used.	N/A	N/A
S/A11e: Not used.       N/A       N/A         S/A11f: Not used.       N/A       N/A         S/A11f: Not used.       N/A       N/A         S/A11g: Not used.       N/A       N/A         S/A11g: Not used.       N/A       N/A         S/A11f: Not used.       N/A       N/A         W1 [PREFABRICATED WOOD TRUSSES       Soils: Eligible shallow foundation elements - type 1**.         Soils: Eligible deep foundation elements - type 2**.       Concrete: Masonry: Eligible post-installed anchors**.         W1b: Metal Plate Truss Fabrication       Continuous       SI         W2b: CLT Fabrication       Continuous       SI         W2c: Mass Timber Erection       Periodic       SI         W2c: Connections Type A       Periodic       SI         W2c: Connections Type B       Continuous       SI         W3i: Not used.       N/A <td>□ S/A11c: Not used.</td> <td>N/A</td> <td>N/A</td> <td>EXEMPTIONS</td> <td></td> <td></td>	□ S/A11c: Not used.	N/A	N/A	EXEMPTIONS		
S/A116: Not used.       N/A       N/A       DSA approval or those items checked below are exempt from test and special inspection requirements. The project inspector shall verify all construction complies with the approved construction documents.         S/A111: Not used.       N/A       N/A         W1 pREFABRICATED WOOD TRUSCES       Solis: Eligible deep foundation elements * type 1**.         Solis: Eligible deep foundation elements - type 2**.       Solis: Eligible deep foundation elements - type 2**.         W1a: Open Web Truss Fabrication       Continuous       SI         W2a: GL Timber Fabrication       Continuous       SI         W2b: CLT Fabrication       Continuous       SI       Concrete: Batch plant inspection for items listed in and complying with CBC Section 1910A.5.4, Exception #4.         W2c: Connections Type A       Periodic       SI       Manory: Freestanding site walls and retaining walls per DSA IR 21-1. <tr< td=""><td>□ S/A11d: Not used.</td><td>N/A</td><td>N/A</td><td></td><td></td><td></td></tr<>	□ S/A11d: Not used.	N/A	N/A			
S/A11f: Not used.       N/A       N/A         S/A11g: Not used.       N/A       N/A         S/A11f: Not used.       N/A       N/A         W1 iPREFABRICATED WOOD TEUENETS       Solis: Eligible chep foundation elements - type 1**.         W2: GL Timber Fabrication       Continuous       SI         W2: CLT Fabrication       Continuous       SI <td>□ S/A11e: Not used.</td> <td>N/A</td> <td>N/A</td> <td>0,00</td> <td>•</td> <td></td>	□ S/A11e: Not used.	N/A	N/A	0,00	•	
S/A11g: Not used.       N/A       N/A       inspector shall verify all construction complies with the approved construction documents.         S/A11h: Not used.       N/A       N/A       approved construction documents.         S/A11h: Not used.       N/A       N/A       Image of the approved construction documents.         S/A11h: Not used.       N/A       N/A       Soils: Eligible shallow foundation elements - type 1**.         W1 PREFABRICATED WOOD TRUSES       Soils: Eligible deep foundation elements - type 2**.       Soils: Eligible deep foundation elements - type 2**.         W1b: Metal Plate Truss Fabrication       Continuous       SI       Soils: Eligible deep foundation elements - type 2**.         W2 IMANUFACTURED WOOD ELEMENTS       Soils: Eligible deep foundation elements - type 2**.       Concrete/Masonry: Eligible post-installed anchors*.         W2a: GL Timber Fabrication       Continuous       SI       Concrete: Eboxy shear dowels in nonstructural slab-on-grade per CBC Section 1910A.5.4. Exception #4.         W2c: Connections Type A       Periodic       SI       Insteed in and complying with CBC Section 1910A.5.4. Exception #4.         W2c: Connections Type B       Continuous       SI       Insteed in and complying with CBC Section 1910A.2.         W3a: Not used.       N/A       N/A       Welding: Eligible precast elements**.         W3a: Not used.       N/A       N/A       Welding: E	□ S/A11f: Not used.	N/A	N/A			
S/A11h: Not used.       N/A       N/A       approved construction documents.         S/A11h: Not used.       N/A       N/A         S/A11; Not used.       N/A       N/A         W1 PREFABRICATED WOOD TRUSSES       Soils: Eligible shallow foundation elements - type 1**.         W1a: Open Web Truss Fabrication       Continuous       SI         W1a: Open Web Truss Fabrication       Continuous       SI         W1b: Metal Plate Truss Fabrication       Continuous       SI         W2a: GL Timber Fabrication       Continuous       SI         W2b: CLT Fabrication       Continuous       SI         W22: Connections Type A       Periodic       SI         W22: Connections Type B       Continuous       SI         W21: Sealants       Periodic       SI         W33: Not used.       N/A       N/A         W34: Not used.       N/A       N/A         W33: Not used.       N/A       N/A         W34: Not used.       N/A       N/A         W34: Not used.       N/A       N/A         W33: Not used.       N/A       N/A         W34: Not used.       N/A       N/A         W36: Not used.       N/A       N/A         W36: Not used.       N/A	□ S/A11g: Not used.	N/A	N/A			
S/A11k: Not used.       N/A       N/A       Soils: Eligible shallow foundation elements**.         W1 PREFABRICATED WOOD TRUSSES       Soils: Eligible deep foundation elements - type 1**.         W1a: Open Web Truss Fabrication       Continuous       SI         W1b: Metal Plate Truss Fabrication       Continuous       SI         W2 MANUFACTURED WOOD ELEMENTS       Continuous       SI         W2a: GL Timber Fabrication       Continuous       SI         W2c: Mass Timber Erection       Periodic       SI         W2d: Connections Type A       Periodic       SI         W22: Sealants       Periodic       SI         W3a: Not used.       N/A       N/A         W3d: Not used.       N/A       <	□ S/A11h: Not used.	N/A	N/A			
W1 PREFABRICATED WOOD TRUSSES       Soils: Eligible deep foundation elements - type 1**.         W1a: Open Web Truss Fabrication       Continuous       Si         W1b: Metal Plate Truss Fabrication       Continuous       Si         W2 MANUFACTURED WOOD ELEMENTS       Concrete/Masonry: Eligible post-installed anchors**.         W2: GL Timber Fabrication       Continuous       Si         W2: CLT Fabrication       Continuous       Si         W2: Connections Type A       Periodic       Si         W2: Sealants       Periodic       Si         W3: Not used.       N/A       N/A         W3: Not used.       N/A       Welding: Eligible components supporting MEP distribution systems**.         W3: Not used.       N/A       Welding: Eligible mounts and recreational equipment**.         W3: Not used.       N/A       Welding: Eligible nonstructural components**.         W3: Not used.       N/A       Welding: Eligible mounts and recreational equipment**.	□ S/A11j: Not used.	N/A	N/A			
W1a: Open Web Truss Fabrication       Continuous       SI         W1b: Metal Plate Truss Fabrication       Continuous       SI         W2 (MANUFACTURED WOOD ELEMENTS       Continuous       SI         W2: MANUFACTURED WOOD ELEMENTS       Continuous       SI         W2: MASS Timber Fabrication       Continuous       SI         W2c: Mass Timber Fabrication       Continuous       SI         W2c: Mass Timber Faercion       Periodic       SI         W2d: Connections Type A       Periodic       SI         W2f: Sealants       Periodic       SI         W3a: Not used.       N/A       N/A         W3d: Not used.       N/A       N/A         W3d: Not used.       N/A       N/A         W3a: Not used.	□ S/A11k: Not used.	N/A	N/A	-		
<ul> <li>W1b: Metal Plate Truss Fabrication Continuous SI</li> <li>W2 (MANUFACTURED WOOD ELEMENTS</li> <li>W2a: GL Timber Fabrication Continuous SI</li> <li>W2b: CLT Fabrication Continuous SI</li> <li>W2c: Mass Timber Erection Periodic SI</li> <li>W2d: Connections Type A Periodic SI</li> <li>W2f: Sealants Periodic SI</li> <li>W3a: Not used.</li> <li>N/A N/A</li> <li>W3a: Not used.</li> <li>N/A N/A</li> <li>W3a: Not used.</li> <li>N/A N/A</li> <li>W3a: Not used.</li> <li>W3a: Not used.</li> <li>W3a: Not used.</li> <li>W3a: Not used.</li> <li>W/A N/A</li> <li>W3b: Not used.</li> <li>W/A N/A</li> <li>W3a: Not used.</li> <li>W/A N/A</li> <li>W3b: Not used.</li> <li>W/A N/A</li> <li>W3b: Not used.</li> <li>W/A N/A</li> <li>W3f: Not used.</li> <li>W/A N/A</li> <li>W4 big Eligible mounts and recreational equipment**.</li> <li>W3f: Not used.</li> <li>W/A N/A</li> <li>W3f: Not used.</li> <li>W/A N/A</li> <li>W4 big Eligible mounts and recreational equipment**.</li> <li>W3f: Not used.</li> <li>W/A N/A</li> <li>W4 big Bigible mounts and recreational equipment**.</li> <li>W3f: Not used.</li> <li>W/A N/A</li> <li>Welding: Eligible mounts and recreational equipment**.</li> <li>W3g: Not used.</li> <li>W/A N/A</li> <li>Welding: Eligible nonstructural components**.</li> <li>W3f: Not used.</li> <li>W3h: Not used.</li></ul>					• •	
W1b: Middle Hidd Hidd Hidd Hidden and Complexity       Continuous       Sit         W2   MANUFACTURED WOOD ELEMENTS       Continuous       Sit         W2a: GL Timber Fabrication       Continuous       Sit         W2b: CLT Fabrication       Continuous       Sit         W2c: Mass Timber Erection       Periodic       Sit         W2d: Connections Type A       Periodic       Sit         W2c: Connections Type B       Continuous       Sit         W2f: Sealants       Periodic       Sit         W3a: Not used.       N/A       N/A         W3f: Not used.       N/A			SI	- · ·	•••	
W2 Infance root decrementation       Continuous       SI       complying with CBC Section 1705A.3.3.2.         W2a: GL Timber Fabrication       Continuous       SI       complying with CBC Section 1910A.5.4, Exception #4.         W2c: Mass Timber Erection       Periodic       SI       concrete: Epoxy shear dowels in nonstructural slab-on-grade per CBC Section 1910A.5.4, Exception #4.         W2d: Connections Type A       Periodic       SI       Concrete/Masonry: Reinforcing bar testing for items listed in and complying with CBC Section 1910A.2.         W2f: Sealants       Periodic       SI       Masonry: Freestanding site walls and retaining walls per DSA IR 21-1.         W3a: Not used.       N/A       N/A       Welding: Eligible fences and gates**.         W3b: Not used.       N/A       N/A       Welding: Eligible railing and ramps**.         W3d: Not used.       N/A       N/A       Welding: Eligible components supporting MEP distribution systems**.         W3c: Not used.       N/A       N/A       Welding: Eligible mounts and recreational equipment**.         W3d: Not used.       N/A       N/A       Welding: Eligible mounts and recreational equipment**.         W3f: Not used.       N/A       N/A       Welding: Eligible nonstructural components**.         W3g: Not used.       N/A       N/A       Welding: Eligible nonstructural components**.         W3g: Not		Contantacae	SI			
Wate: Oct Initide Patibility       Continuous       Or       Concrete: Epoxy shear dowels in nonstructural slab-on-grade per CBC Section 1910A.5.4, Exception #4.         W2c: Mass Timber Erection       Periodic       SI       Concrete: Epoxy shear dowels in nonstructural slab-on-grade per CBC Section 1910A.5.4, Exception #4.         W2d: Connections Type A       Periodic       SI       Concrete/Masonry: Reinforcing bar testing for items listed in and complying with CBC Section 1910A.2.         W2e: Connections Type B       Continuous       SI       Masonry: Freestanding site walls and retaining walls per DSA IR 21-1.         W2f: Sealants       Periodic       SI       Concrete: Eligible precast elements**.         W3a: Not used.       N/A       N/A       Welding: Eligible racing and ramps**.         W3c: Not used.       N/A       N/A       Welding: Eligible equipment curbs**.         W3a: Not used.       N/A       N/A       Welding: Eligible components supporting MEP distribution systems**.         W3d: Not used.       N/A       N/A       Welding: Eligible mounts and recreational equipment**.         W3f: Not used.       N/A       N/A       Welding: Eligible nonstructural components**.         W3g: Not used.       N/A       N/A       Welding: Eligible nonstructural components**.         W3g: Not used.       N/A       N/A       Welding: Eligible nonstructural components**.     <						anu
W2b: CLT Fabrication       Continuous       Si       slab-on-grade per CBC Section 1910A.5.4, Exception #4.         W2c: Mass Timber Erection       Periodic       SI       Concrete/Masonry: Reinforcing bar testing for items         W2d: Connections Type A       Periodic       SI       Isted in and complying with CBC Section 1910A.5.4, Exception #4.         W2e: Connections Type B       Continuous       SI       Masonry: Freestanding site walls and retaining walls         W2f: Sealants       Periodic       SI       Concrete: Eligible precast elements**.         W3a: Not used.       N/A       N/A       Welding: Eligible faces and gates**.         W3b: Not used.       N/A       N/A       Welding: Eligible equipment curbs**.         W3d: Not used.       N/A       N/A       Welding: Eligible components supporting MEP distribution systems**.         W3d: Not used.       N/A       N/A       Welding: Eligible mounts and recreational equipment**.         W3d: Not used.       N/A       N/A       Welding: Eligible mounts and recreational equipment**.         W3f: Not used.       N/A       N/A       Welding: Eligible nonstructural components**.         W3g: Not used.       N/A       N/A       Welding: Eligible nonstructural components**.         W3g: Not used.       N/A       N/A       Welding: Eligible nonstructural components**. </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
W2d: Connections Type A       Periodic       SI       listed in and complying with CBC Section 1910A.2.         W2e: Connections Type B       Continuous       SI       Masonry: Freestanding site walls and retaining walls per DSA IR 21-1.         W2f: Sealants       Periodic       SI       Concrete: Eligible precast elements**.         W3i OTHER WOOD       Concrete: Eligible fences and gates**.       Concrete: Eligible railing and ramps**.         W3b: Not used.       N/A       N/A       Welding: Eligible equipment curbs**.         W3c: Not used.       N/A       N/A       Welding: Eligible components supporting MEP distribution systems**.         W3d: Not used.       N/A       N/A       Welding: Eligible mounts and recreational equipment**.         W3e: Not used.       N/A       N/A       Welding: Eligible mounts and recreational equipment**.         W3f: Not used.       N/A       N/A       Welding: Eligible components supporting MEP distribution systems**.         W3f: Not used.       N/A       N/A       Welding: Eligible mounts and recreational equipment**.         W3g: Not used.       N/A       N/A       Welding: Eligible nonstructural components**.         W3g: Not used.       N/A       N/A       Welding: Eligible nonstructural components**.         W3g: Not used.       N/A       N/A       Welding: Eligible nonstructural components**. </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>ion #4.</td>						ion #4.
W2e: Connections Type B       Continuous       SI       Masonry: Freestanding site walls and retaining walls per DSA IR 21-1.         W3 OTHER WOOD       Contract       Concrete: Eligible precast elements**.         W3a: Not used.       N/A       N/A         W3b: Not used.       N/A       N/A         W3c: Not used.       N/A       N/A         W3d: Not used.       N/A       N/A         W3d: Not used.       N/A       N/A         W3d: Not used.       N/A       Welding: Eligible railing and ramps**.         W3d: Not used.       N/A       Welding: Eligible equipment curbs**.         W3d: Not used.       N/A       N/A         W3e: Not used.       N/A       N/A         W3f: Not used.       N/A       N/A         W3f: Not used.       N/A       N/A         W3f: Not used.       N/A       N/A         W3g: Not used.       N/A       N/A				Concrete/Masonry: Reinforcing bar	testing for item	S
W2f: Sealants       Periodic       SI       per DSA IR 21-1.         W3 [ OTHER WOOD       Concrete: Eligible precast elements**.         W3a: Not used.       N/A       N/A       Welding: Eligible fences and gates**.         W3b: Not used.       N/A       N/A       Welding: Eligible railing and ramps**.         W3c: Not used.       N/A       N/A       Welding: Eligible equipment curbs**.         W3d: Not used.       N/A       N/A       Welding: Eligible components supporting MEP distribution systems**.         W3e: Not used.       N/A       N/A       Welding: Eligible mounts and recreational equipment**.         W3f: Not used.       N/A       N/A       Welding: Eligible nonstructural components**.         W3g: Not used.       N/A       N/A       Welding: Eligible nonstructural components**.         W3g: Not used.       N/A       N/A       Welding: Eligible nonstructural components**.         W3g: Not used.       N/A       N/A       Welding: Eligible nonstructural components**.         W3g: Not used.       N/A       N/A       Welding: Eligible nonstructural components**.         W3g: Not used.       N/A       N/A       Welding: Eligible nonstructural components**.         W3g: Not used.       N/A       N/A       Welding: Eligible nonstructural components**.         W3g: N						
W3   OTHER WOOD       Concrete: Eligible precast elements**.         W3a: Not used.       N/A       N/A         W3b: Not used.       N/A       Welding: Eligible fences and gates**.         W3b: Not used.       N/A       N/A         W3c: Not used.       N/A       N/A         W3d: Not used.       N/A       N/A         W3d: Not used.       N/A       N/A         W3e: Not used.       N/A       N/A         W3f: Not used.       N/A       N/A         W3f: Not used.       N/A       N/A         W3g: Not used.       N/A       N/A         W3g: Not used.       N/A       N/A         W3g: Not used.       N/A       N/A         W3h: Not used.       N/A       N/A         W3h: Not used.       N/A       N/A					nd retaining wal	ls
<ul> <li>W3a: Not used.</li> <li>W3a: Not used.</li> <li>W3b: Not used.</li> <li>W3b: Not used.</li> <li>W3c: Not used.</li> <li>W3d: Not used.</li> <li>W3a: Not used.</li> <li>W3d: Not used.</li> <li>W3a: Not used.</li> &lt;</ul>		Periodic	SI	•	**	
<ul> <li>W3b: Not used.</li> <li>W3b: Not used.</li> <li>W3c: Not used.</li> <li>W3d: Not used.</li> <li>W3a: Not used.</li> <li>W3a: Not used.</li> <li>WA</li> <li>WA</li> <li>W4 N/A</li> <li>Welding: Eligible railing and ramps**.</li> <li>Welding: Eligible interior cold-formed steel framing**.</li> <li>W3d: Not used.</li> <li>W/A</li> <li>WA</li> <li>W4 N/A</li> <li>Welding: Eligible equipment curbs**.</li> <li>W3e: Not used.</li> <li>W/A</li> <li>WA</li> <li>W4 N/A</li> <li>Welding: Eligible components supporting MEP distribution systems**.</li> <li>W3f: Not used.</li> <li>W/A</li> <li>WA</li> <li>W4 N/A</li> <li>Welding: Eligible mounts and recreational equipment**.</li> <li>W3g: Not used.</li> <li>W/A</li> <li>WA</li> <li>W</li></ul>		N1/A	N1/A	- ·		
<ul> <li>W3b: Not used.</li> <li>W3c: Not used.</li> <li>W3c: Not used.</li> <li>W3d: Not used.</li> <li>W3d: Not used.</li> <li>W3e: Not used.</li> <li>W3e: Not used.</li> <li>W3e: Not used.</li> <li>WA</li> <li>WA</li> <li>WA</li> <li>WA</li> <li>WA</li> <li>WA</li> <li>WA</li> <li>Walding: Eligible interior cold-formed steel framing**.</li> <li>Wad: Not used.</li> <li>WA</li> <li>WA<!--</td--><td></td><td></td><td></td><td>5 5 5</td><td></td><td></td></li></ul>				5 5 5		
<ul> <li>W3d: Not used.</li> <li>W3e: Not used.</li> <li>W3f: Not used.</li> <li>W3f: Not used.</li> <li>W3g: Not used.</li> <li>WA</li> <li>WA<!--</td--><td>□ W3b: Not used.</td><td>N/A</td><td>N/A</td><td></td><td></td><td>**</td></li></ul>	□ W3b: Not used.	N/A	N/A			**
□       W3e: Not used.       N/A       N/A       A/A       distribution systems**.         □       W3f: Not used.       N/A       N/A       □       Welding: Eligible mounts and recreational equipment**.         □       W3g: Not used.       N/A       N/A       □       Welding: Eligible nonstructural components**.         □       W3g: Not used.       N/A       N/A       N/A         □       W3h: Not used.       N/A       N/A	□ W3c: Not used.	N/A	N/A	Welding: Eligible equipment curbs*	*.	
□       W3e: Not used.       N/A       N/A       □       Welding: Eligible mounts and recreational equipment**.         □       W3f: Not used.       N/A       N/A       □       Welding: Eligible nonstructural components**.         □       W3g: Not used.       N/A       N/A       N/A         □       W3h: Not used.       N/A       N/A	□ W3d: Not used.	N/A	N/A		orting MEP	
□       W3f: Not used.       N/A       N/A       □       Welding: Eligible nonstructural components**.         □       W3g: Not used.       N/A       N/A       N/A         □       W3h: Not used.       N/A       N/A	□ W3e: Not used.	N/A	N/A	-	ational equipme	ent**.
□ W3h: Not used. N/A N/A	□ W3f: Not used.	N/A	N/A			
	□ W3g: Not used.	N/A	N/A			
* See Appendix for additional information. ** See Appendix for eligibility requirements.			N/A			
	* See Appendix for additional information			** See Appendix for eligibility requirement	ts.	

#### Project Name: Merced College School District: Merced College

**IMPORTANT:** This form is only a summary list of structural tests and some of the special inspections required for the project. Any items indicated on the approved construction documents with a note stating that the items are not part of the DSA approval are not considered in this form. 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 nonstructural components, etc., per Title 24, Part 2, Chapter 17A.

#### Legend to TYPE and BY Columns:

Continuous - Indicates continuous special inspection is required.

Periodic - Indicates periodic special inspection is required.

Test - Indicates a test is required.

**GE** – Indicates special inspection shall be performed by a registered geotechnical engineer or his/her authorized representative, usually associated with the Laboratory of Record.

**LOR** – Indicates test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program (i.e., the Laboratory of Record for the project). See CAC Section 4-335. **PI** - Indicates special inspection may be performed by a project inspector when specifically approved by DSA.

SI - Indicates special inspection shall be performed by an appropriately qualified/approved special inspector.

#### **Required Verified Reports:**

- 1. Structural Testing and Inspection: Form DSA 291
- 2. Concrete Batch Plant Inspection: Form DSA 291
- 3. Post-installed Anchors: Form DSA 291 or DSA 292
- 4. Shop Welding Inspection: Form DSA 291 or DSA 292

Verified reports are required on the following DSA forms:

DSA 291: Laboratory of Record Verified Report DSA 292: Special Inspectors Employed Directly by the District Verified Report DSA 293: Geotechnical Verified Report

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

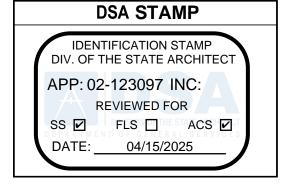
Name of Architect or Engineer in General Responsible Charge:

Name of Structural Engineer of Record (when applicable):

Gaylord Ransom

Signature of Architect or Structural Engineer:

Project Name: Merced College School District: Merced College



NOTE: Undefined sections and table references found in this appendix are from the CBC, or California Building Code

S1. GENERAL:	
Test or Special Inspection	Code References and Notes
<ul> <li>S1a: Site Preparation   Verify that:</li> <li>Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations.</li> <li>Foundation excavations are extended to proper depth and have reached proper material.</li> <li>Materials below footings are adequate to achieve the design bearing capacity.</li> </ul>	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.

S2. SOIL COMPACTION AND FILL:	
Test or Special Inspection	Code References and Notes
<b>S2a: Fill Materials</b>   Perform classification and testing of fill materials.	* Under the supervision of the geotechnical engineer.
<b>S2b: Fill Placement</b>   Verify use of proper materials, densities and inspect lift thicknesses, placement and compaction during placement of fill.	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the end of this form listing exemptions for limitations.
S2c: Compaction   Compaction testing.	Refer to specific items identified in the Appendix listing exemptions for limitations. Placement of controlled fill exceeding 12" depth under foundations is not permitted without a geotechnical report.

S3. DRIVEN DEEP FOUNDATIONS (PILES):	
Test or Special Inspection	Code References and Notes
<b>S3a: Materials and Members</b>   Verify pile materials, sizes and lengths comply with the requirements.	* By geotechnical engineer or his or her qualified representative.
<b>S3b: Pile Capacity</b>   Determine capacities of test piles and conduct additional load tests as required.	* Under the supervision of the geotechnical engineer.
<b>S3c: Driving Operations</b>   Inspect driving operations and maintain complete and accurate records for each pile.	* By geotechnical engineer or his or her qualified representative.

Project Name: Merced College	Application No.: 02-123097 Increment:
School District: Merced College	File No.: <b>02-123097</b>

<b>S3d: Pile Installation</b>   Verify locations of piles and their plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and record any pile damage.	* By geotechnical engineer or his or her qualified representative.
<b>S3e: Specialty Piles</b>   For specialty piles, perform additional inspections as determined by the registered design professional in responsible charge.	* As defined on drawings or specifications.

S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):	
Test or Special Inspection	Code References and Note
<b>S4a: Drilling Operations</b>   Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix (end of this form) listing exemptions for limitations.
<b>S4b: Pier Construction</b>   Verify pier locations, diameters, plumbness, bell diameters (if applicable), lengths and embedment into bedrock (if applicable); record concrete or grout volumes.	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix (end of this form) listing exemptions for limitations.
<b>S4c: Bearing Strata</b>   Confirm adequate end strata bearing capacity.	Provide tests and inspections per CONCRETE section below.

S5. RETAINING WALLS:	
Test or Special Inspection	Code References and Notes
<b>S5a: Backfill Placement</b>   Placement, compaction and inspection of backfill.	1705A.6.1. * By geotechnical engineer or his or her qualified representative. (See section S2 above).
<b>S5b: Soil Reinf. and Drainage</b>   Placement of soil reinforcement and/or drainage devices.	* By geotechnical engineer or his or her qualified representative.
<b>S5c: Segmental Retaining Walls</b>   Segmental retaining walls; inspect placement of units, dowels, connectors, etc.	* By geotechnical engineer or his or her qualified representative. See DSA IR 18-2.

S6   OTHER SOILS	
Test or Special Inspection	Code References and Notes
<b>S6a</b>   Soil Improvements	Submit a comprehensive report documenting final soil improvements constructed, construction observation and the results of the confirmation testing and analysis to CGS (California Geological Survey) for final acceptance. * By geotechnical engineer or his or her qualified representative.
S6b   Inspection of Soil Improvements	* By geotechnical engineer or his or her qualified representative.
S6c.   Not used.	N/A
S6d.   Not used.	N/A
S6e.   Not used.	N/A
S6f.   Not used.	N/A
S6g.   Not used.	N/A
S6h.   Not used.	N/A
<b>S6j.</b>   Not used.	N/A
S6k.   Not used.	N/A
S6m.   Not used.	N/A
S6n.   Not used.	N/A

C1. CAST-IN-PLACE CONCRETE	
Test or Special Inspection	Code References and Notes
C1a: Mix Design   Verify use of required design mix.	Table 1705A.3 Item 5, 1903A.5, 1903A.7, 1904A.1, 1904A.2, 1910A.1 ; ACI 318 Ch. 19, 26.4, 26.13.3.2.
<b>C1b: Reinforcing Steel</b>   Identify, sample, and test reinforcing steel.	Table 1705A.3 Item 1, 1705A.3.9, 1908A.1, 1910A.2; ACI 318 Ch. 20 and Sections 25.2, 25.3, 25.5.1, 26.6.1; DSA IR 17-10 and BU 24-02. (See Appendix (end of this form) for exemptions.)
<b>C1c: Concrete Material</b>   During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Table 1705A.3 Item 6, 1705A.3.9, 1905A.1.17; ASTM C31, ASTM C172; ACI 318 Sections 26.4, 26.5 & 26.12.
C1d: Strength Test   Test concrete (f'c).	1905A.1.17; ACI 318 Section 26.12.
<b>C1e: Batch Plant Inspection</b>   Batch plant inspection: Continuous	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 not required per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):	
Test or Special Inspection	Code References and Notes
<b>C2a: Tendons and Anchorage</b>   Sample and test prestressing tendons and anchorages.	1705A.3.4 Table 1705A.3 Item 1, 1910A.3; ACI 318 Ch. 20 and Sections 25.2, 26.6.1.
<b>C2b: Tendon Placement</b>   Inspect placement of prestressing tendons.	1705A.3.4, Table 1705A.3 Items 1 & 9; ACI 318 Ch. 20 and Sections 25.2, 26.6.1-26.6.3.
<b>C2c: Concrete Strength</b>   Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	Table 1705A.3 Item 13; ACI 318 Sections 26.10.2, 26.11.2,26.13.3.3. Special inspector to verify specified concretestrength test prior to stressing.
<b>C2d: Stressing Operations</b>   Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	1705A.3.4, Table 1705A.3 Item 9; ACI 318 Sections 26.10.2, 26.13.1, 26.13.3.2.

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):	
Test or Special Inspection	Code References and Notes
<ul> <li>C3a: General Fabrication   1. Inspect fabrication of precast concrete members. *</li> <li>2. Inspect reinforcement of the following precast concrete elements or system(s): <ul> <li>a. special moment frames.</li> <li>b. boundary elements of special structural walls.</li> <li>c. coupling beams.</li> </ul> </li> </ul>	<b>1705A.3 Item 1, 7.</b> See Appendix for exemptions. *May be periodic where fabrication occurs in a PCI-certified plant. For underground structures, NPCA plant certification is acceptable. PCI MNL-116-21; PCI MNL-117-16: NPCA QCM-24. See IR A-15.

Project Name: Merced College	Application No.: 02-123097	Increment:
School District: Merced College	File No.: 02-123097	

C3b: General Erection   Inspect erection of precast concrete members.	Table 1705A.3 Item 10.
<ul> <li>C3c: Diaphragm Connections   For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category D, E or F, inspect such connections and reinforcement in the field for:</li> <li>1. Installation of the embedded parts.</li> <li>2. Completion of the continuity of reinforcement across joints.</li> <li>3. Completion of connections in the field.</li> </ul>	Table 1705A.3 Item 11.
<b>C3d: Diaphragm Tolerances</b>   Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	Table 1705A.3 Item 12

C4. SHOTCRETE (IN ADDITION TO SECTION C1):	
Test or Special Inspection	Code References and Notes
<b>C4a: Placement</b>   Inspect shotcrete placement for proper application techniques.	1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2 Section 3.4, and ACI 506R.
C4b: Shotcrete Material   Sample and test shotcrete (f'c).	1908A.2 and 1705A.3.9.

C5. POST-INSTALLED ANCHORS:	
Test or Special Inspection	Code References and Notes
<b>C5a: Inspection</b>   Inspect installation of post-installed anchors	<b>1617A.1.19, Table 1705A.3 Item 4a (Continuous) &amp; 4b</b> <b>(Periodic), 1705A.3.8</b> (See Appendix (end of this form) for exemptions). ACI 318 Sections 26.7.2, 26.13.1, 26.13.3.2, 26.13.3.3. * May be performed by the project inspector when specifically approved by DSA.
C5b: Test   Test post-installed anchors.	1910A.5. (See Appendix (end of this form) for exemptions.)

C6. OTHER CONCRETE:	
Test or Special Inspection	Code References and Notes
C6a.   Not used.	N/A
C6b.   Not used.	N/A
C6c.   Not used.	N/A
C6d.   Not used.	N/A
<b>C6e</b> .   Not used.	N/A
C6f.   Not used.	N/A
C6g.   Not used.	N/A
C6h.   Not used.	N/A
<b>C6</b> j.   Not used.	N/A
C6k.   Not used.	N/A
C6m.   Not used.	Not used.
C6n.   Not used.	Not used.

M1. STRUCTURAL MASONRY:	
Test or Special Inspection	Code References and Notes
M1a: Mill Certificates - Reinf.   Mill certificate indicates compliance with requirements for reinforcement, anchors, ties, fasteners and metal accessories. See item C1(b) for identification, sampling and testing of reinforcing steel.	<b>2103A.4</b> ; TMS 602-16 Article 1.5B.2 & 2.4. * To be performed by qualified LOR representative. Applicable testing by LOR. See IR 17-10 for unidentified reinforcing steel.
M1b: Material Certificates   Producer's certificate of compliance for masonry units, mortar and grout materials.	<b>1705A.4, 2103A.2, 2103A.3, 2103A.5;</b> TMS 602 Articles 1.5B.2, 2.1, 2.2, 2.6A and 2.6B, and Table 6 footnote 3.
M1c: Strength Test   Test masonry (f'm).	<b>1705A.4. For Unit Strength: 2105A.3</b> ; TMS 602 Articles 1.4B.2 ,1.5B.1 & 1.5B.2. For Prism (required when f'm> 2000 psi):2105A.2; TMS 602 Articles 1.4B.3, 1.4B.4, 1.5B.1 & 1.5B.2.
M1d: Mortar Proportions   Verify proportions or properties of site-prepared, premixed or preblended mortar.	TMS 602, Table 3 (row 5), Table 4 Item 1a. DSA PR 20-01. (See Appendix (end of this form) for exemptions.)
M1e: Grout Proportions   Verify proportions or properties of site-prepared, premixed or preblended grout.	TMS 602, Table 3 (row 5), Table 4 Item 2d. (See Appendix (end of this form) for exemptions.)
<b>M1f: Batch Plant Inspection</b>   Batch plant inspection: Periodic	Default of <b>'Continuous'</b> per <b>1705A.3.3</b> . If approved by DSA, batch plant inspection may be reduced to ' <b>Periodic'</b> subject to requirements in Section <b>1705A.3.3.1</b> , or not required per <b>1705A.3.3.2</b> . See IR 17-13. Refer to TMS 602 Table 3 and Table 4, Item #3a. (See Appendix (end of this form) for exemptions.)
M1g: Core Tests   Test core-drilled samples.	2105A.4. (See Appendix (end of this form) for exemptions.)
M1h: Prisms   Inspect preparation of prisms.	TMS 602 Articles 1.4.B.3 & 1.4.B.4 & Table 4 Item 4.
M1i: Dowels and Supports   Verify size, location and condition of all dowels, construction supporting masonry, etc.	
M1j: Reinforcement and Members   Verify size, grade and type of reinforcement, connectors, and anchor bolts. Verify size and location of structural members.	TMS 602 Table 4, Items 1c & 3c.
M1k: Reinforcement Placement   Inspect placement of reinforcement, anchor bolts, and connectors.	TMS 602 Table 4 Item 2c.
<b>M1I: Grout Placement</b>   Placement, consolidation, and reconsolidation of grout.	TMS 602 Table 4 Item 3h.
M1m: Unit Layup and Joints   Inspect placement of masonry units and construction of mortar joints.	TMS 602 Table 4 Item 3b.
M1n: Cold/Hot Weather Work   Verify preparation, construction and protection of masonry during cold weather (temperature below 40° F) or hot weather (temperature above 90° F).	TMS 602 Table 4 Item 3f. * May be performed by the project inspector when specifically approved by DSA.
M1o: Anchors and Embeds   Inspect type, size and location of anchors and all other items to be embedded in masonry including other details of anchorage of masonry	TMS 602 Table 4 Item 3d.
Project Name: Merced College	Application No.: 02-123097 Increment:

r toject Name.	werceu conege
School District:	Merced College

to structural members, frames and other construction.	
M1p: Grout Cavity   Inspect grout space, including mortar protrusions, prior to placement of grout.	TMS 602 Table 4 Item 2a.

٦

M2. VENEER OR GLASS BLOCK PARTITIONS:	
Test or Special Inspection	Code References and Notes
M2a: Mortar and Grout   Verify proportions of site prepared mortar and grout and/or verify certification of premixed mortar.	TMS 602 Table 3 (row 5) and Table 4 Items 1a & 2d.
<b>M2b: Unit Layup and Joints</b>   Inspect placement of units and construction of mortar joints.	TMS 602 Table 4 Item 3b.
M2c: Wires and Connector   Inspect placement of wire, connectors and anchors	TMS 602 Table 4 Item 2c.
M2d: Anchors and Embeds   Inspect type, size and location of anchors and all other items to be embedded in masonry veneer including details of anchorage of masonry to veneer backing, frames and other construction.	TMS 602 Table 4 Item 3d.
M2e: Cold/Hot Weather Work   Verify preparation, construction and protection of masonry during cold weather (temperature below 40° F) or hot weather (above 90° F).	TMS 602 Table 4 Item 3f. * May be performed by the project inspector when specifically approved by DSA.
<b>M2f: Adhered Veneer Bond</b>   Test adhered veneer bond strength.	<b>1410.2.1;</b> TMS 402 Article 12.3.2.4. (Field-constructed mock-up using specified unit, mortar, and substrate, laboratory tested in accordance with ASTM C1823).

M3. POST-INSTALLED ANCHORS IN MASONRY:	
Test or Special Inspection	Code References and Notes
<b>M3a: Inspection</b>   Inspect installation of post-installed anchors	<b>1617A.1.19, 1705A.4, Table 1705A.3 Item 4a (Continuous) &amp;</b> <b>4b (Periodic);</b> ACI 318 Section 26.13. * May be performed by the project inspector when specifically approved by DSA. (See Appendix (end of this form) for exemptions.)
M3b: Test   Test post-installed anchors.	<b>1705A.4, 1910A.5.</b> (See Appendix (end of this form) for exemptions.)

Г

M4. OTHER MASONRY:	
Test or Special Inspection	Code References and Notes
M4a.   Not used.	N/A
M4b.   Not used.	N/A
M4c.   Not used.	N/A
M4d.   Not used.	N/A
M4e.   Not used.	N/A
M4f.   Not used.	N/A
M4g.   Not used.	N/A
M4h.   Not used.	N/A
M4j.   Not used.	N/A
M4k.   Not used.	N/A
M4m.   Not used.	Not used.
M4n.   Not used.	Not used.

S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES	
Test or Special Inspection	Code References and Notes
<ul> <li>S/A1a: Material Identification   Verify identification of all materials and:</li> <li>Mill certificates indicate material properties that comply with requirements.</li> <li>Material sizes, types and grades comply with requirements.</li> </ul>	Table 1705A.2.1 Item 3a–3c. 2202A.1; AISI S100 Section A3.1 & A3.2, AISI S240 Section A3 & A5, AISI S220 Sections A4 & A6. *By special inspector or qualified technician when performed off-site.
S/A1b: Unidentified Material   Test unidentified materials	2202A.1.
<b>S/A1c: Steel Fabrication</b>   Verify and document steel fabrication per DSA- approved construction documents.	Not applicable to cold-formed steel light-frame construction, except for trusses ( <b>1705A.2.4</b> ).
<b>S/A1d: Buckling Restrained Brace</b>   Verify and document steel fabrication per DSA-approved construction documents.	Testing and special inspections in accordance with IR 22-4. For DSA accepted fabrication shops, BRB manufacturer's Certificate of Compliance in lieu of testing and special inspections. See IR 22-4.

S/A2. HIGH-STRENGTH BOLTS:	
Test or Special Inspection	Code References and Notes
<b>S/A2a: Product Verification</b>   Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA- approved documents.	Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISC 360 Section A3.3, J3.1, and N3.2; RCSC Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
S/A2b: Bolts, Nuts, and Washers   Test high-strength bolts, nuts and washers.	Table 1705A.2.1 Item 1c, 2213A.1; RCSC Section 7.2; DSA IR 17-8.
S/A2c: Snug Tight   Bearing-type ("snug tight") connections.	Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2; AISC 360 J3.1, J3.2,           M2.5 & N5.6; RCSC Section 9.1; DSA IR 17-9.
S/A2d: Pretensioned / Slip-Critical   Pretensioned and slip-critical connections.	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360 J3.1, J3.2, M2.5 & N5.6; RCSC Sections 9.2 & 9.3; DSA IR 17-9 *"Continuous" or "Periodic" depends on the tightening method used.

S/A3. WELDING:	
Test or Special Inspection	Code References and Notes
<b>S/A3a: Weld Material</b>   Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	<b>1705A.2.5, Table 1705A.2.1 Items 4 &amp; 5</b> ; 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; DSA IR 17-3.
S/A3b: Certificate of Compliance   Verify weld filler material manufacturer's certificate of compliance.	DSA IR 17-3.
<b>S/A3c: WPS and Qualifications</b>   Verify WPS, welder qualifications and equipment.	DSA IR 17-3.

S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):	
Test or Special Inspection	Code References and Notes
<b>S/A4a: Weld Category A</b>   Inspect groove welds, multipass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Table 1705A.2.1 Items 5a.1-4; AISC 360 (and AISC 341 as applicable); DSA IR 17-3.
<b>S/A4b: Weld Category</b> B   Inspect single-pass fillet welds $\leq$ 5/16", floor and roof deck welds.	<b>1705A.2.2, Table 1705A.2.1 Items 5a.5 &amp; 5a.6;</b> AISC 360 (and AISC 341 as applicable); DSA IR 17-3.
S/A4c: Stairs and Railing   Inspect welding of stairs and railing systems.	<b>1705A.2.1</b> ; AISC 360 (and AISC 341 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
S/A4d: Reinf. Steel Weldability   Verification of reinforcing steel weldability other than ASTM A706.	<b>1705A.3.1</b> ; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
S/A4e: Reinforcing Steel   Inspect welding of reinforcing steel.	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2,           1903A.8; AWS D1.4; DSA IR 17-3.

S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):	
Test or Special Inspection	Code References and Notes
<b>S/A5a: Weld Category A</b>   Inspect groove welds, multipass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Table 1705A.2.1 Items 5a.1-4; AISC 360 (AISC 341 as applicable); DSA IR 17-3.
<b>S/A5b: Weld Category B</b>   Inspect single-pass fillet welds $\leq$ 5/16".	Table 1705A.2.1 Item 5a.5; AISC 360 (AISC 341 as applicable); DSA IR 17-3.
<b>S/A5c: End Welded Studs</b>   Inspect end-welded studs (ASTM A-108) installation (including bend test).	<b>2213A.2</b> ; AISC 360 (AISC 341 as applicable); AWS D1.1; DSA IR 17-3.
S/A5d: Deck Welds   Inspect floor and roof deck welds.	1705A.2.2, Table 1705A.2.1 Item 5a.6; AISC 360 (AISC 341 as applicable); AWS D1.3; DSA IR 17-3.
<b>S/A5e: Cold-Formed Steel</b>   Inspect welding of structural cold-formed steel.	<b>1705A.2.5;</b> AWS D1.3; DSA IR 17-3. The quality control provisions of AISI S240 Chapter D shall also apply. * May be performed by the project inspector when specifically approved by DSA.
S/A5f: Stairs and Railing   Inspect welding of stairs and railing systems.	<b>1705A.2.1;</b> AISC 360 (AISC 341 as applicable); AWS D1.1 & D1.3; DSA IR 17-3. * May be performed by the project inspector when specifically approved by DSA.
S/A5g: Reinf. Steel Weldability   Verification of reinforcing steel weldability.	<b>1705A.3.1</b> ; AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
S/A5h: Reinforcing Steel   Inspect welding of reinforcing steel.	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item           2, 1903A.8; AWS D1.4; DSA IR 17-3.

Project Name: Merced College School District: Merced College

S/A6. NONDESTRUCTIVE TESTING:	
Test or Special Inspection	Code References and Notes
S/A6a: Ultrasonic   Ultrasonic	<b>1705A.2.1, Table 1705A.2.1 Item 4c, 1705A.2.5;</b> AISC 341 J6.2, AISC 360 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
S/A6b: Magnetic Particle   Magnetic Particle	<b>1705A.2.1, Table 1705A.2.1 Item 4c, 1705A.2.5;</b> AISC 341 J6.2, AISC 360 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
S/A6c: Not used.	N/A
S/A6d: Not used.	N/A
S/A6e: Not used.	N/A

S/A7. STEEL JOISTS AND TRUSSES:	
Test or Special Inspection	Code References and Notes
<b>S/A7a: Fabrication</b>   Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	<b>1705A.2.3, Table 1705A.2.3;</b> AWS D1.1; DSA IR 22-3 for steel joists only. <b>1705A.2.4;</b> AWS D1.3 for cold-formed steel trusses.

S/A8. SPRAYED FIRE-RESISTANT MATERIALS:	
Test or Special Inspection	Code References and Notes
<b>S/A8a: Surface and Installation</b>   Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	1705A.15, 1705A.15.1, 1705A.15.2, 1705A.15.3, 1705A.15.4, 1705A.15.5, 1705A.15.6.
S/A8b: Density   Test density.	1705A.15.1, 1705A.15.5, ASTM E605
S/A8c: Bond: Adhesion/Cohesion   Bond strength adhesion/cohesion.	1705A.15.1, 1705A.15.6, ASTM E736

S/A9. ANCHOR BOLTS AND ANCHOR RODS:	
Test or Special Inspection	Code References and Notes
S/A9a: Anchor Rods and Bolts   Anchor Bolts and Anchor Rods	Identify, sample and test anchor bolts and anchor rods <b>not</b> meeting exemptions identified in Section 1 of IR 17-11.
<b>S/A9b: Other Threaded Rods</b>   Threaded rod not used for foundation anchorage.	Identify, sample and test threaded rods <b>not</b> meeting exemptions identified in Section 1 of IR 17-11.

S/A10. STORAGE RACK SYSTEMS:	
Test or Special Inspection	Code References and Notes
<b>S/A10a: Material Verification</b>   Materials used, to verify compliance with one or more of the material test reports in accordance with the approved construction documents.	Table 1705A.13.7
<b>S/A10b: Fabrication</b>   Fabricated storage rack elements.	1704A.2.5; Table 1705A.13.7
S/A10c: Anchorage   Storage rack anchorage installation.	ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7
<b>S/A10d: Completed System</b>   Completed storage rack system to indicate compliance with the approved construction documents.	Table 1705A.13.7; * May be preformed by the project inspector when specifically approved by DSA.

S/A11. Other Steel	
Test or Special Inspection	Code References and Notes
S/A11a.   Not used.	N/A
S/A11b.   Not used.	N/A
S/A11c.   Not used.	N/A
S/A11d.   Not used.	N/A
S/A11e.   Not used.	N/A
S/A11f.   Not used.	N/A
S/A11g.   Not used.	N/A
S/A11h.   Not used.	N/A
S/A11j.   Not used.	N/A
S/A11k.   Not used.	N/A
S/A11m.   Not used.	Not used.
S/A11n.   Not used.	Not used.

W1. PREFABRICATED WOOD TRUSSES:	
Test or Special Inspection	Code References and Notes
W1a: Open Web Truss Fabrication   Inspect fabrication of manufactured open-web trusses.	1705A.5.6; DSA IR 23-8.
W1b: Metal Plate Truss Fabrication   Inspect fabrication of manufactured metal-plate- connected trusses.	1705A.5.6, 1705A.5.7; DSA IR 23-4.

W2. MANUFACTURED WOOD STRUCTURAL ELEMENTS:	
Test or Special Inspection	Code References and Notes
W2a: GLS Timber Fabrication   Inspect fabrication of structural glued-laminated timber.*	* See 1705A.5.5 for exceptions
W2b: CLT Fabrication   Inspect fabrication of cross-laminated timber.	1705A.5.5
W2c: Mass Timber Erection   Inspect erection of mass timber.	Table 1705A.5.3, Item 2
W2d: Connections Type A   Inspect mass timber connections with threaded fasteners, bolts, and/or adhesive anchors other than described in item e below. Inspect concealed mass timber connections.	<b>Table 1705A.5.3</b> , Items 3.1, 3.3, 3.4, 3.5. For threaded fasteners: Verify use of proper installation equipment. Verify use of pre-drilled holes where required. Inspect screws, including diameter, length, head type, spacing, installation angle, and depth.
W2e: Connections Type B   Inspect mass timber connections with adhesive anchors installed in a horizontal or upward orientation.	Table 1705A.5.3, Item 3.2
W2f: Sealants   Inspect application of sealants or adhesives applied to mass timber elements.	1705A.20

W3. OTHER Wood:	
Test or Special Inspection	Code References and Notes
W3a.   Not used.	N/A
W3b.   Not used.	N/A
W3c.   Not used.	N/A
W3d.   Not used.	N/A
W3e.   Not used.	N/A
W3f.   Not used.	N/A
W3g.   Not used.	N/A
W3h.   Not used.	N/A
W3j.   Not used.	N/A
W3k.   Not used.	N/A
W3m.   Not used.	Not used.
W3n.   Not used.	Not used.

X1. OTHER:	
Test or Special Inspection	Code References and Notes
X01.   Load test for identified product(s):	1709A.2, 1709A.3. Testing is not required for: 1) a product with a valid evaluation service report per DSA IR A-5, or 2) a product that can be justified by structural calculation.
<b>X02.</b>   Installation torque for non-HS bolts on communication tower identified as essential service facility projects (ESFP).	Calibrated wrench use required, verified by SI during installation. DSA Policy PL 18-01: Communication Towers, Poles and Buildings Utilized by State Agencies for Essential Services Communications. *EXCEPTION: Non-ESFP may use PI without need for notification to DSA.
X03.   Not used.	N/A
X04.   Not used.	N/A
<b>X05.</b>   Not used.	N/A
<b>X06.</b>   Not used.	N/A
X07.   Not used.	N/A
<b>X08.</b>   Not used.	N/A
<b>X09.</b>   Not used.	N/A
X10.   Not used.	N/A

# EXEMPTIONS

#### SOILS - EXEMPTIONS:

**Soils: Eligible shallow foundation elements** | Shallow foundations, are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception Item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC, Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill with depth not exceeding 12". These exempt structures shall be identified on the approved construction documents.

**Soils: Eligible deep foundation elements, Type 1** | Deep foundation acting as cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report are exempt from special inspection and testing by a Geotechnical Engineer for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.). These exempt structures shall be identified on the approved construction documents.

**Soils: Eligible deep foundation elements Type 2** | Deep foundation acting as cantilever footing with a design based on minimum allowable pressures per CBC Table 1806A.2 and without a geotechnical report are exempt from special inspection and testing by a Geotechnical Engineer for the following cases: A) single-story open fabric shade structure, or B) covered walkway structure with an apex height less than 10'-0" above adjacent grade. These exempt structures shall be identified on the approved construction documents.

#### CONCRETE/MASONRY - EXEMPTIONS:

**Concrete/Masonry: Eligible post-installed anchors** | Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment – see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding" in the Appendix below.

**Concrete: Batch plant inspection for items listed in and complying with CBC Section 1705A.3.3.2.** | Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.

Concrete: Epoxy shear dowels in nonstructural slab-on-grade per CBC Section 1910A.5.4, Exception #4. | Epoxy shear dowels in site flatwork and/or other nonstructural concrete.

**Concrete/Masonry: Reinforcing bar testing for items listed in and complying with CBC Section 1910A.2.** | Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section. These exempt structures shall be identified on the approved construction documents.

Masonry: Freestanding site walls and retaining walls per DSA IR 21-1. | Freestanding and site retaining masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1.

**Eligible precast elements** | Structural tests and special inspections are not required for the following concrete precast elements. Provide a certificate of compliance at delivery. Exemptions shall be identified on the approved construction documents.

- 1. Underground vaults no greater than 5 feet x 5 feet x unlimited height and pipe manufactured to an ASTM standard, 5 foot or less in diameter.
- 2. Elements manufactured in a PCI or NPCA certified manufacturing plant:

Project Name: Merced College School District: Merced College

- A. Underground vaults no greater than 16 feet in both length and width, of unlimited height, not subject to loading greater than HS 20-44.
- B. Pipe.
- C. Stair treads, landing planks.

#### WELDING - EXEMPTIONS:

**Welding: Eligible fences and gates** | Fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade.

**Welding: Eligible railing and ramps** | Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade; fillet welds shall not be ground flush.

**Welding: Eligible interior cold-formed steel framing** | Non-bearing non-shearwall interior cold-formed steel framing spanning less than 15'-0" in height and header less than 10'-0" in opening width, such as in interior partitions, interior soffits, etc.

**Welding: Eligible equipment curbs** | Manufactured support frames and curbs using hot rolled or coldformed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection.)

**Welding: Eligible components supporting MEP distribution systems** | Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection.)

**Welding: Eligible mounts and recreational equipment** | TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection.)

Welding: Eligible nonstructural components | Any support for exempt non-structural components given in CBC Section 1617A.1.18 meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass)  $\leq$ 4' above supporting floor/roof, B) when hung from a wall or roof/floor, and <20# for discrete units or <5 plf for distributed systems.