

SHEET INDEX

THESE PLANS AND SPECIFICATIONS ARE THE
PROPERTY OF USA SHADE AND FABRIC
STRUCTURES AND SHALL NOT BE
REPRODUCED WITHOUT THEIR WRITTEN



CORPORATE HEADQUARTERS
2580 ESTERS BLVD, SUITE 100
DFW AIRPORT, TX, 75261
800-966-5005

CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER
CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Taft City School District

PROJECT NAME:
Taft Primary Elementary
LOCATION:
212 Lucard Street
Taft, CA 93268

MODEL NUMBER:

STRUCTURE TYPE:

SCALE : VARIES

DRAWING SIZE:

D

**PRE-CHECK (PC)
DOCUMENT**

Code : 2022 CBC
A separate project application
for construction is required.

Eng. By : DWH 2/14/23

Design By : DWH 2/14/23

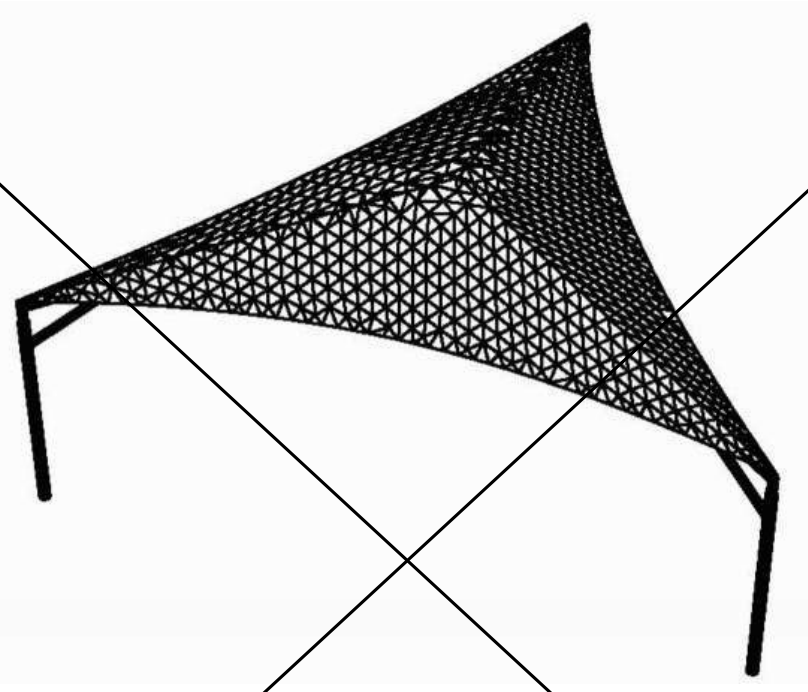
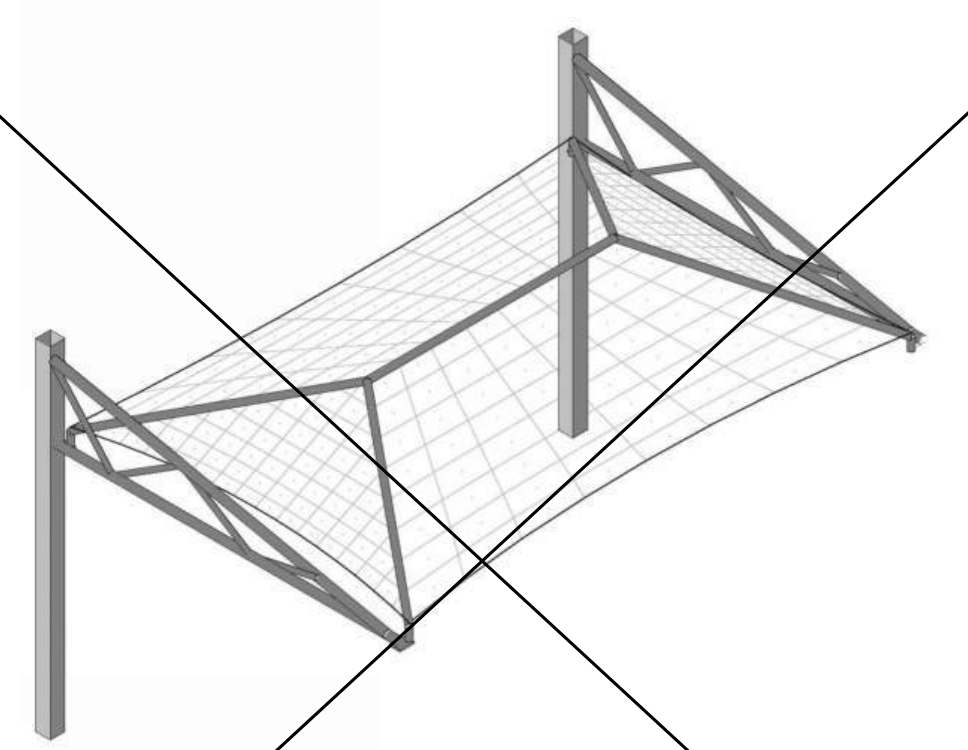
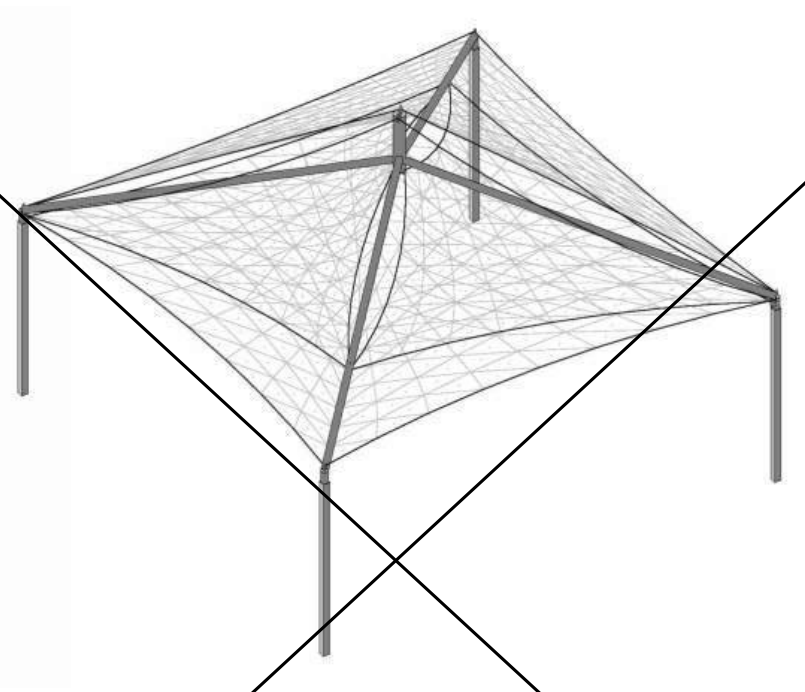
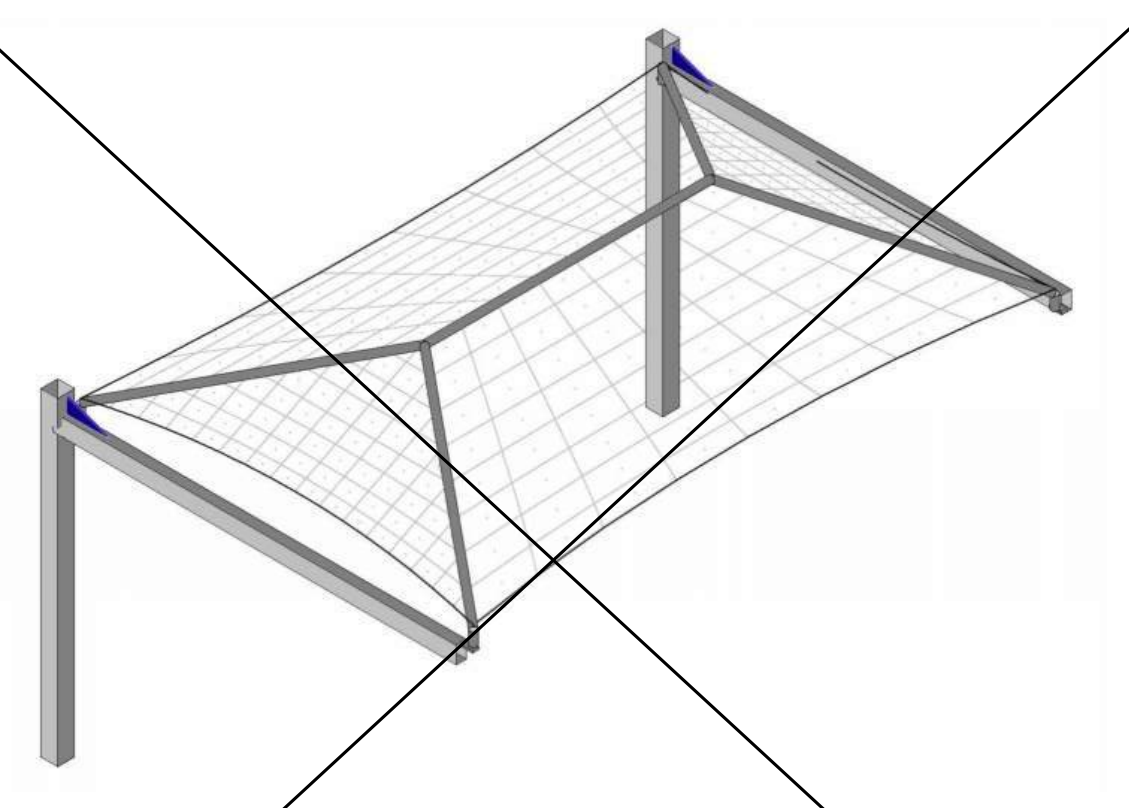
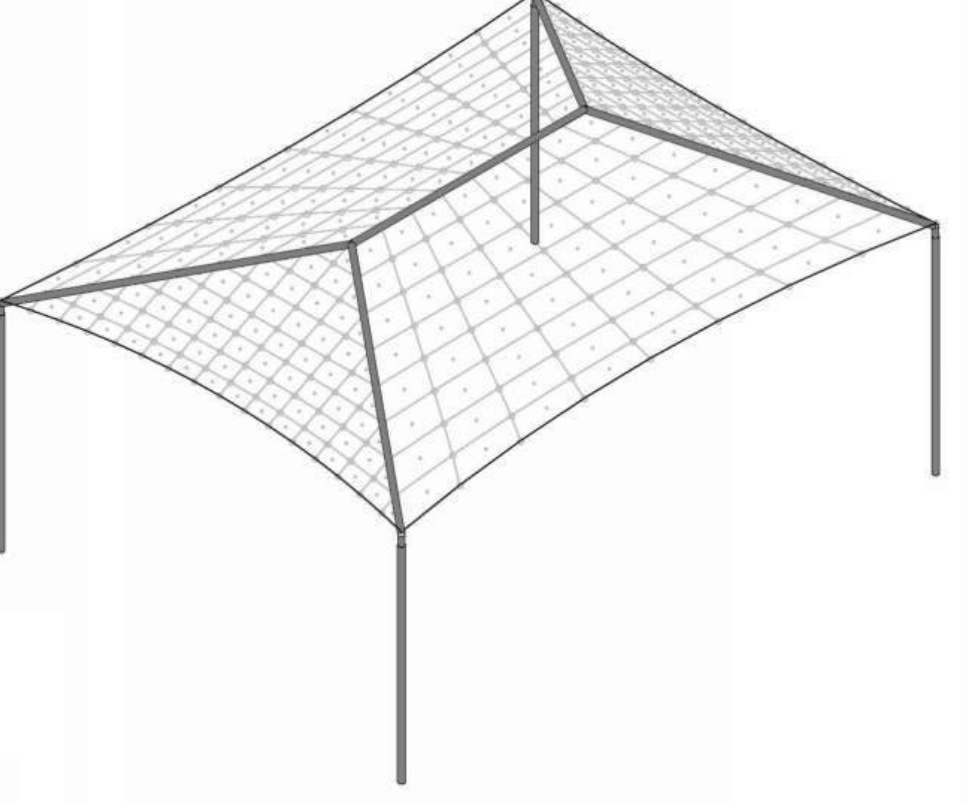

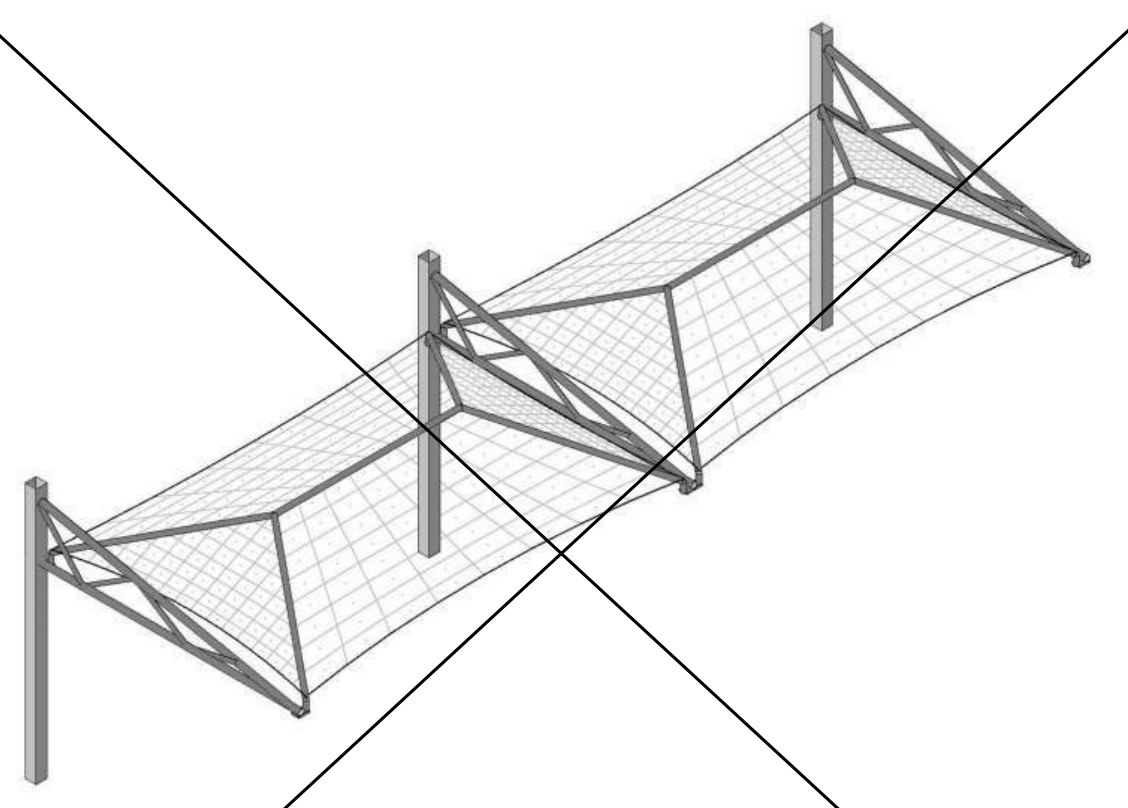
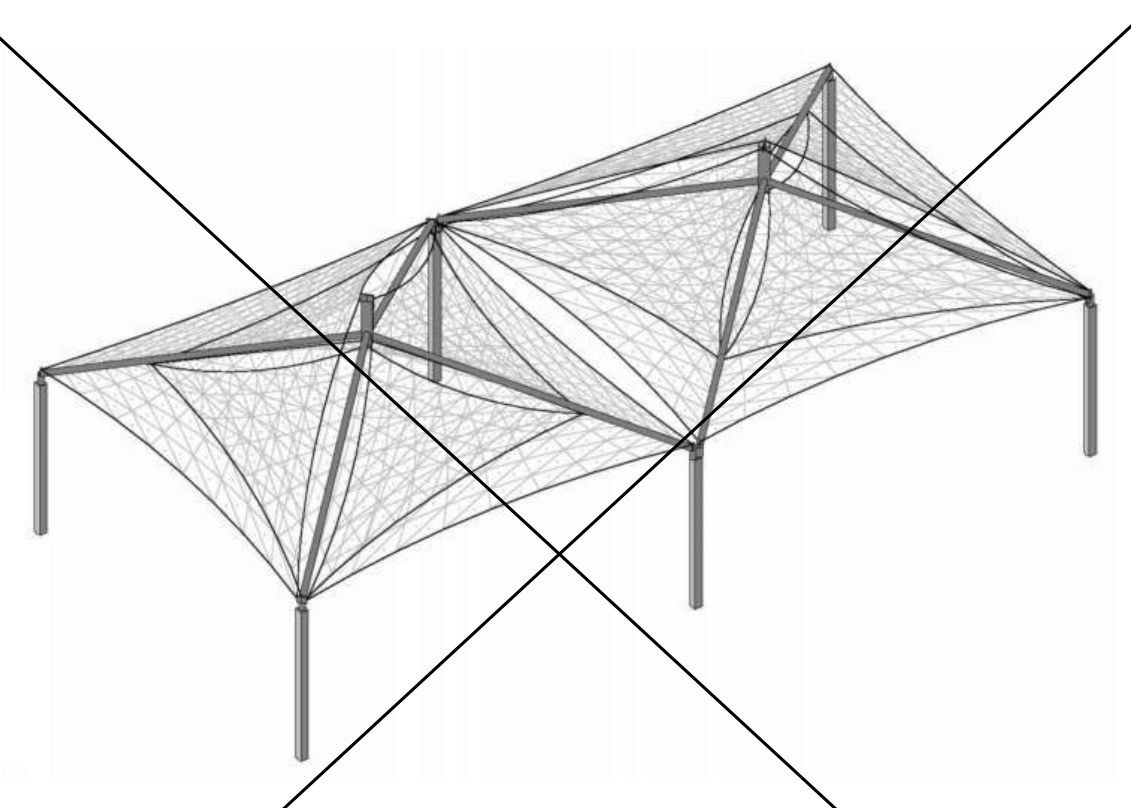
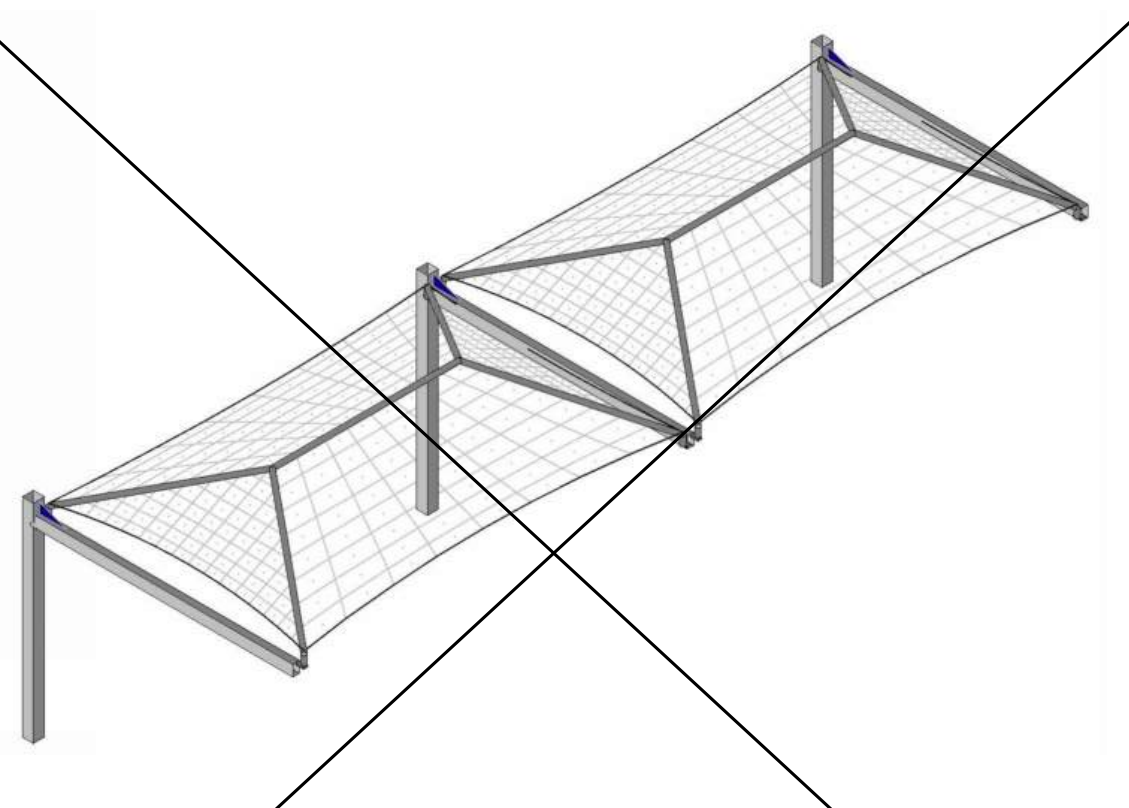
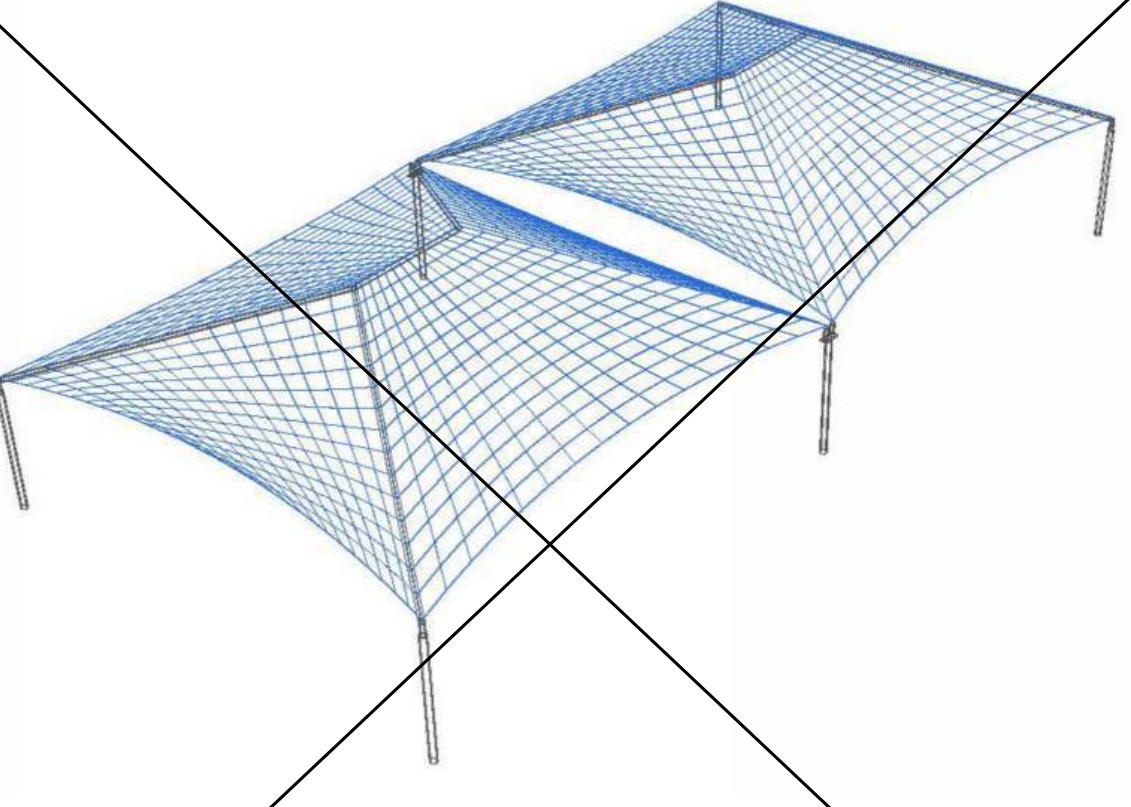
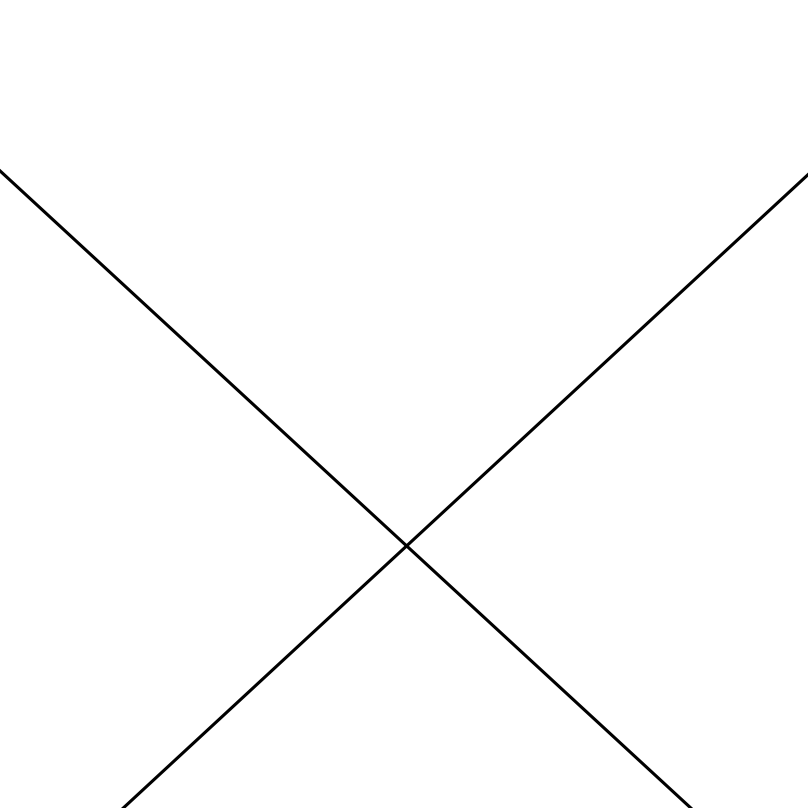
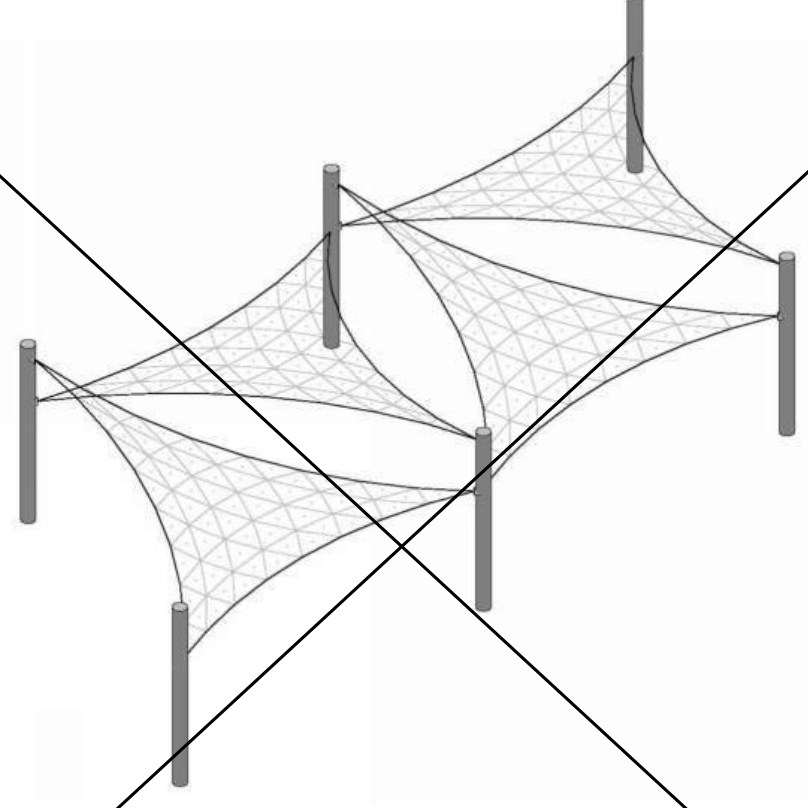
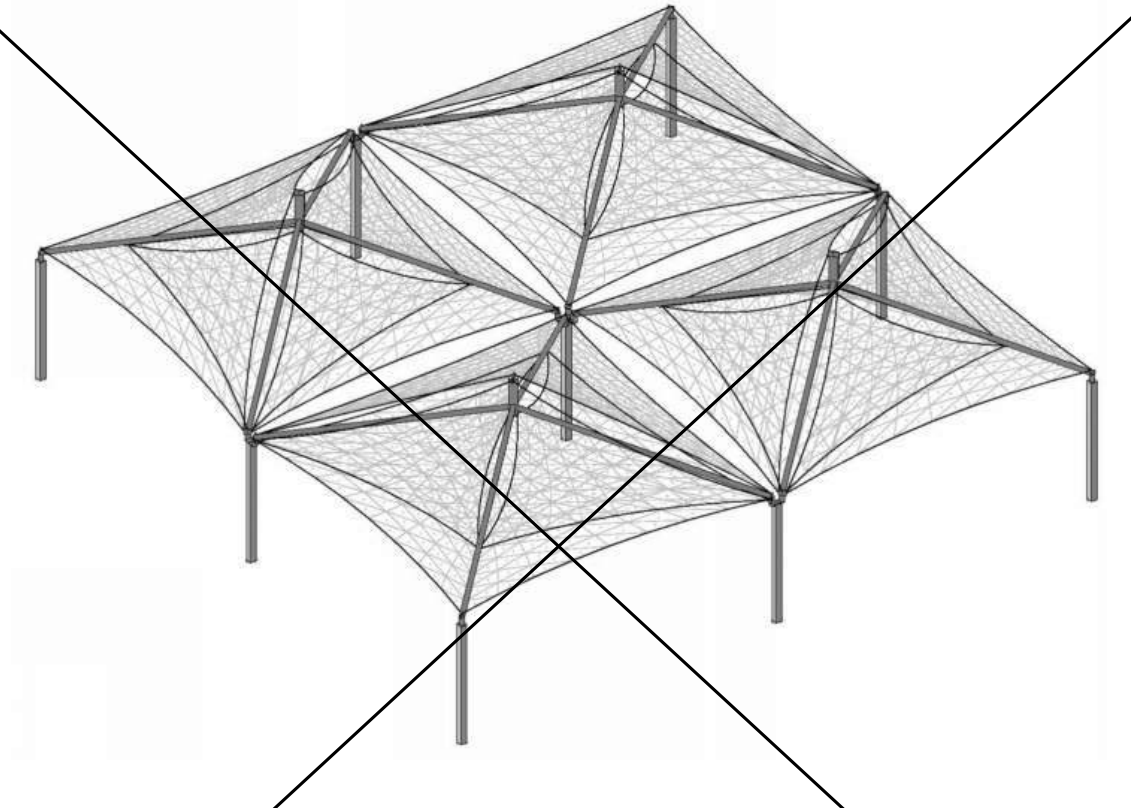
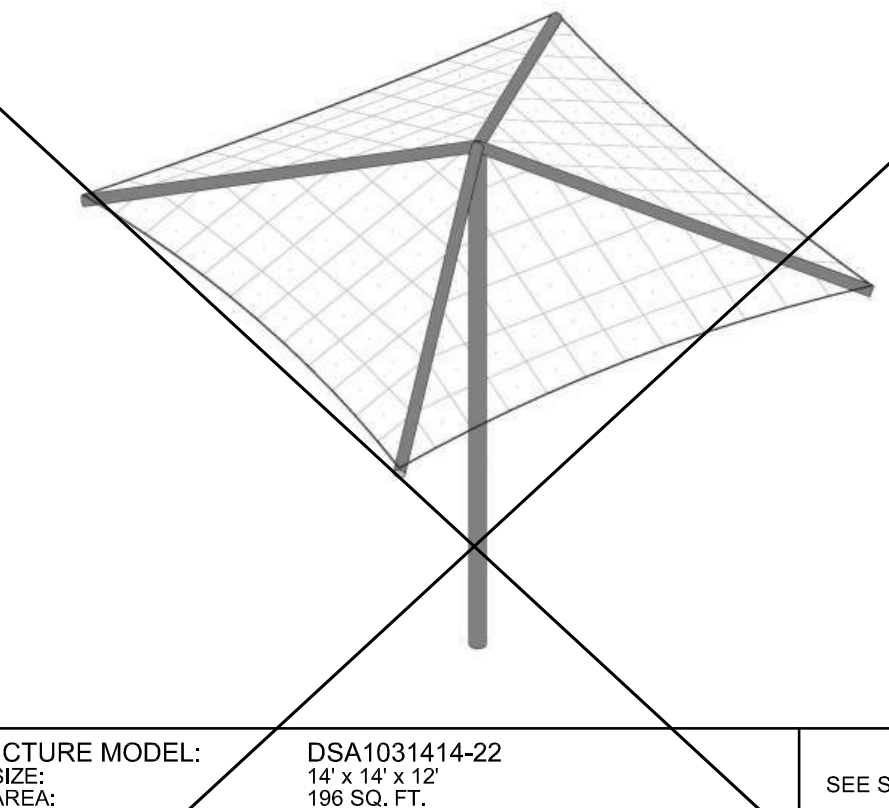
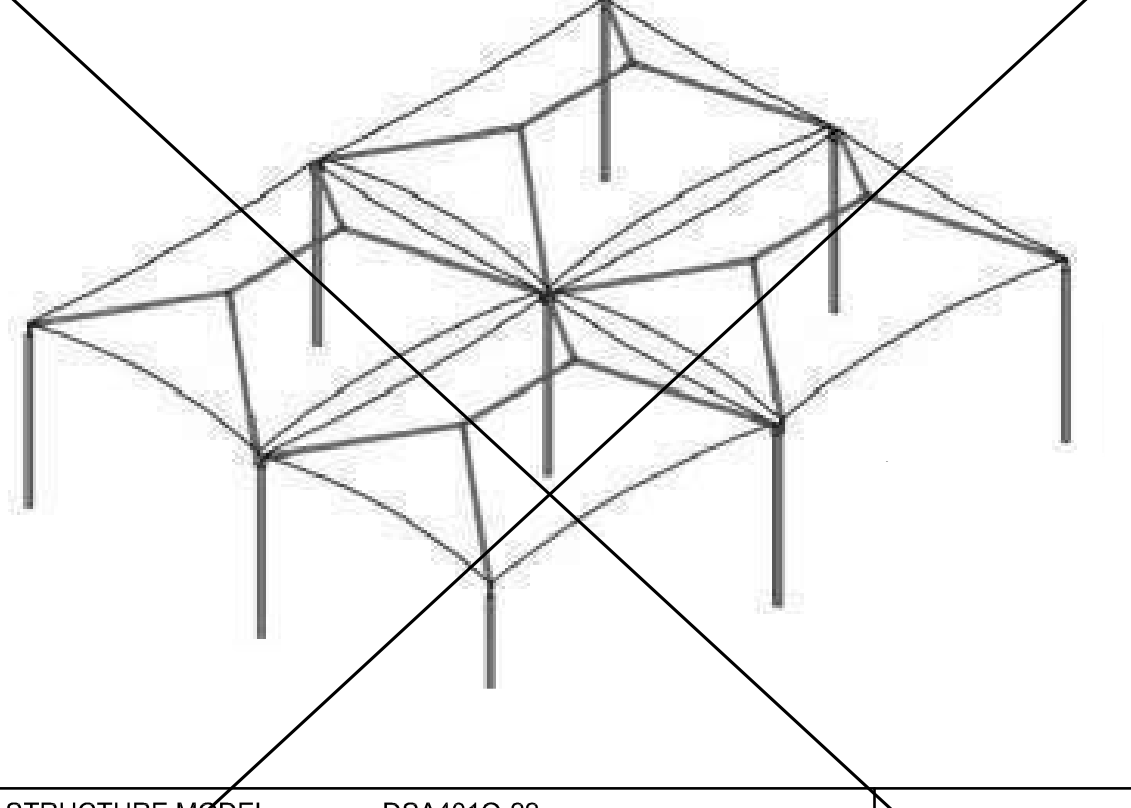
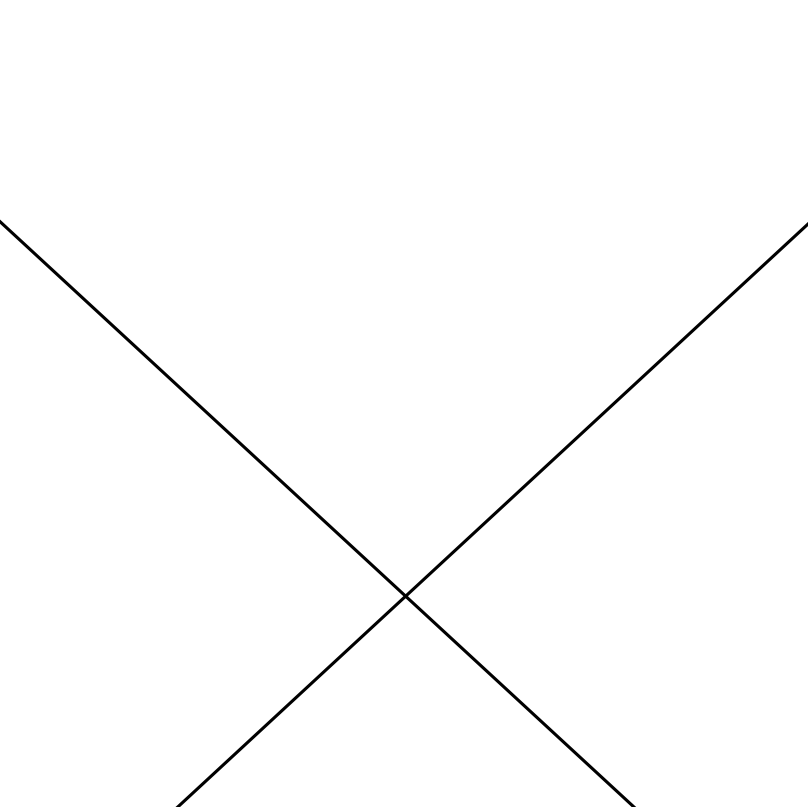
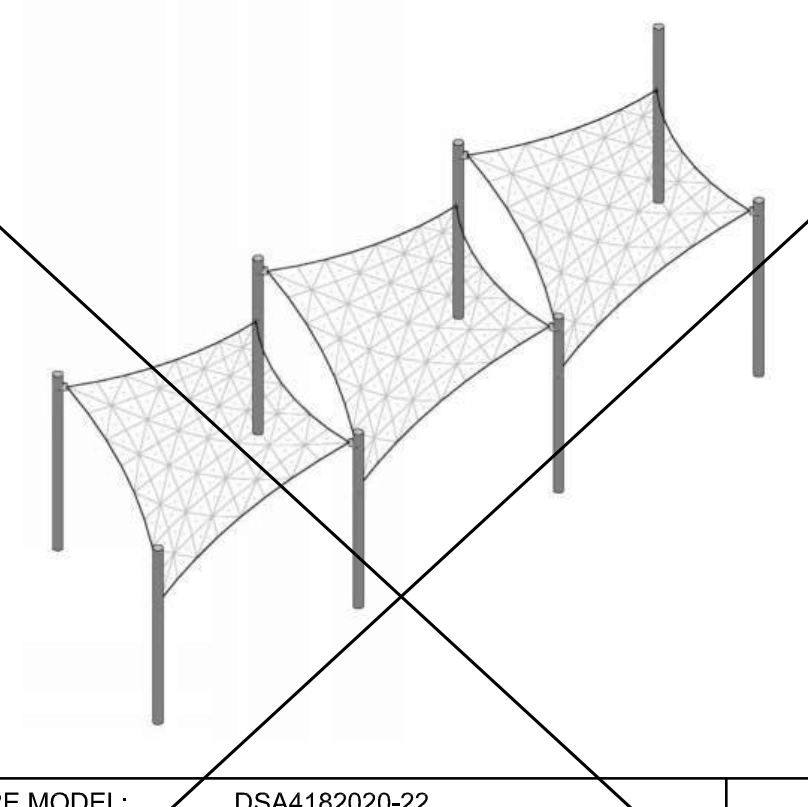
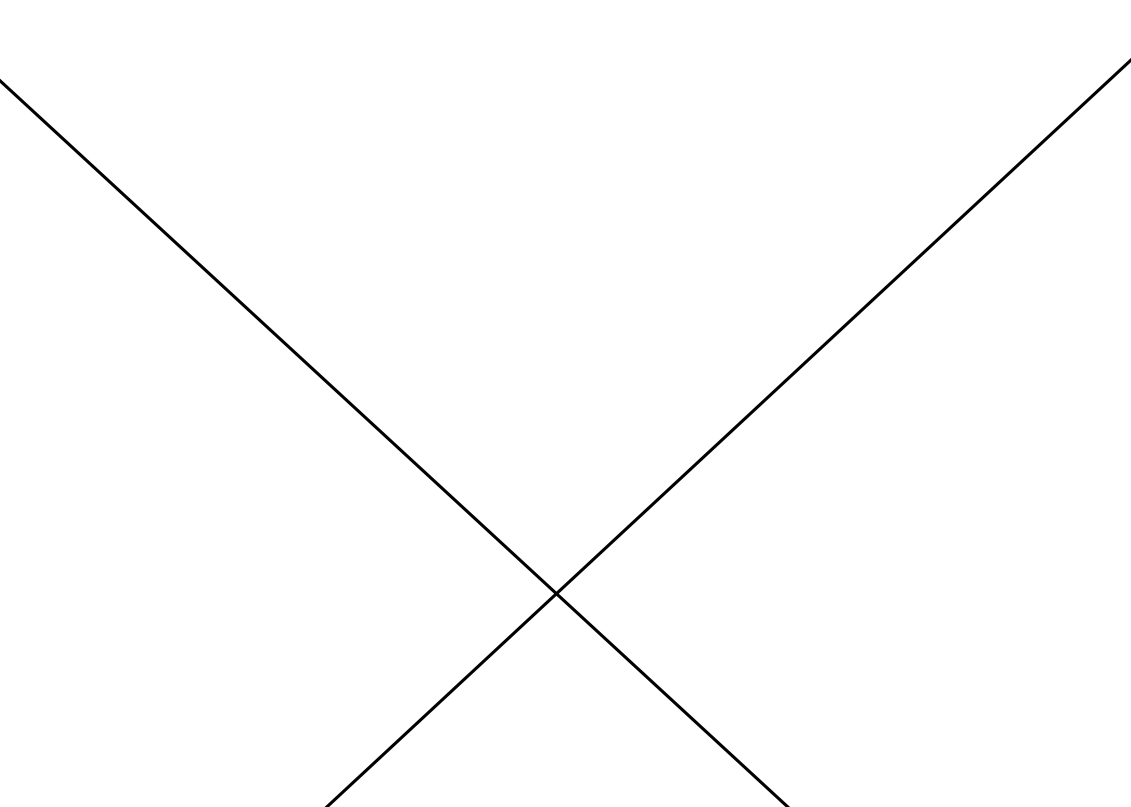
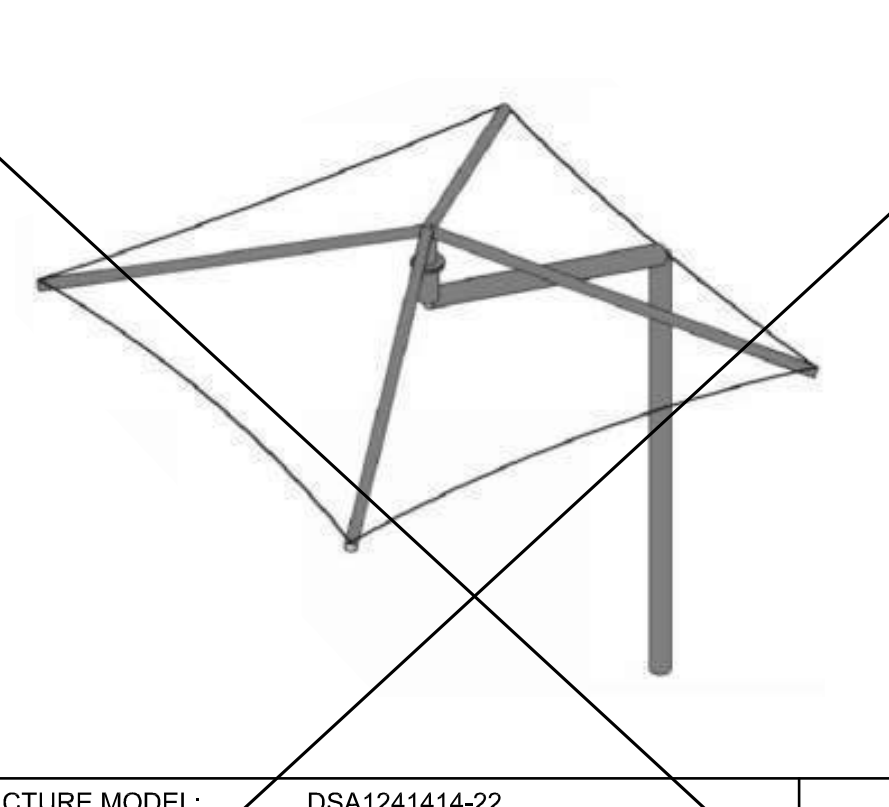
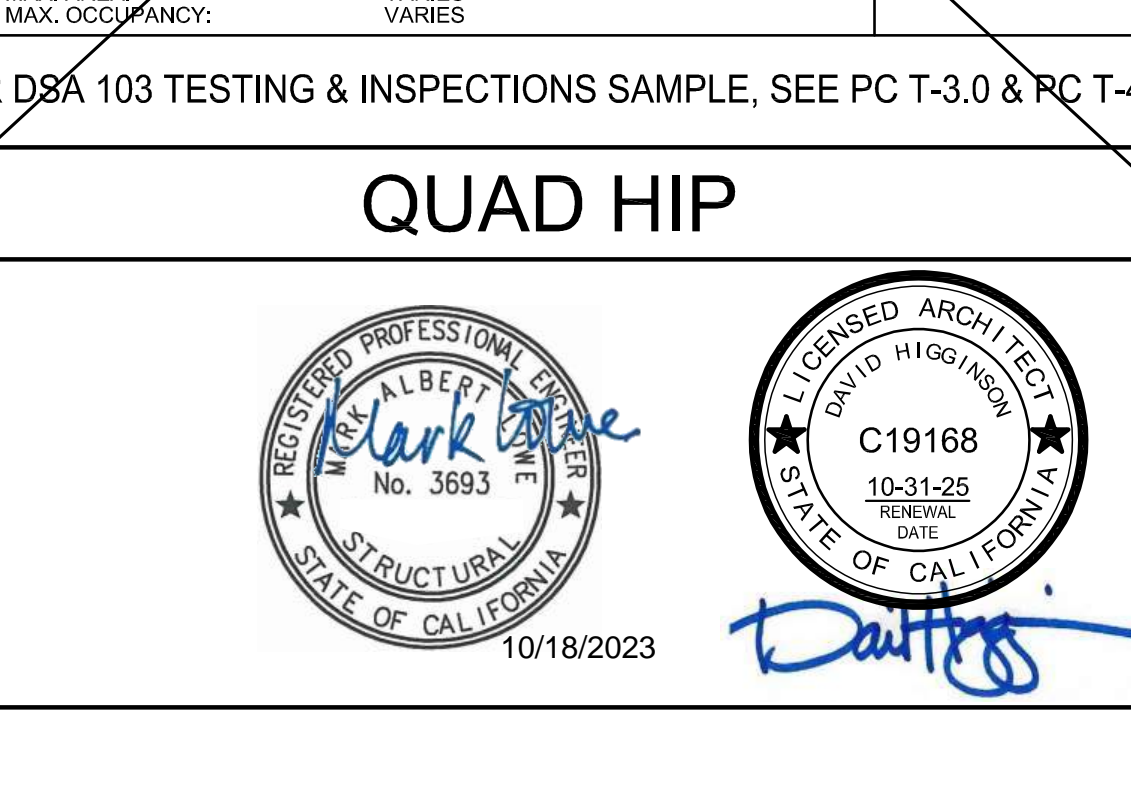
Approved By : DWH 2/14/23

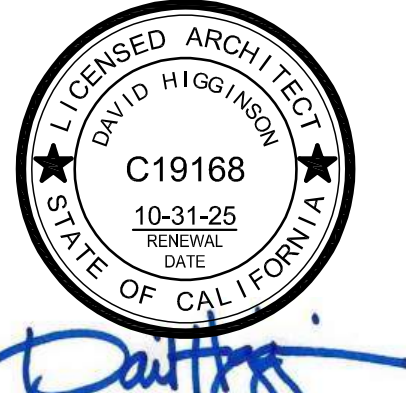
DRAWING DESCRIPTION:

DWG. UNIT SELECTION

SHEET T-2.0

REV.

				
<div>STRUCTURE MODEL: DSA30125-22 MAX. SIZE: 23' x 30' x 15' MAX. AREA: 271 SQ. FT. MAX. OCCUPANCY: 18 PERSONS</div> <div>SEE SHEET 26.1-1000</div>	<div>STRUCTURE MODEL: DSA2062030-22 MAX. SIZE: 20' x 30' x 15' MAX. AREA: 600 SQ. FT. MAX. OCCUPANCY: 40 PERSONS</div> <div>SEE SHEET 21.1-1000</div>	<div>STRUCTURE MODEL: DSA4073030-22 MAX. SIZE: 30' x 30' x 15' MAX. AREA: 600 SQ. FT. MAX. OCCUPANCY: 40 PERSONS</div> <div>SEE SHEET 17.1-1000</div>	<div>STRUCTURE MODEL: DSA2022030-22 MAX. SIZE: 20' x 30' x 15' MAX. AREA: 600 SQ. FT. MAX. OCCUPANCY: 40 PERSONS</div> <div>SEE SHEET 11.1-1000</div>	<div>STRUCTURE MODEL: DSA4012030-22 MAX. SIZE: 20' x 30' x 15' MAX. AREA: 600 SQ. FT. MAX. OCCUPANCY: 40 PERSONS</div> <div>SEE SHEET 1.1-1000</div>
FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0
TRIANGLE	TRI-TRUSS HIP SINGLE WIDE	MARINER PEAK	FULL CANTILEVER HIP SINGLE	HIP
				
<div>STRUCTURE MODEL: DSA60340-22 MAX. SIZE: 60' x 15' MAX. AREA: 1,040 SQ. FT. MAX. OCCUPANCY: 69 PERSONS</div> <div>SEE SHEET 28.1-1000</div>	<div>STRUCTURE MODEL: DSA3062060-22 MAX. SIZE: 20' x 200' x 15' MAX. AREA: 4,000 SQ. FT. MAX. OCCUPANCY: 266 PERSONS</div> <div>SEE SHEET 22.1-1000</div>	<div>STRUCTURE MODEL: DSA4073060-22 MAX. SIZE: 30' x 133' x 15' MAX. AREA: 3,990 SQ. FT. MAX. OCCUPANCY: 266 PERSONS</div> <div>SEE SHEET 19.1-1000</div>	<div>STRUCTURE MODEL: DSA3022060-22 MAX. SIZE: 20' x 200' x 15' MAX. AREA: 4,000 SQ. FT. MAX. OCCUPANCY: 266 PERSONS</div> <div>SEE SHEET 12.1-1000</div>	<div>STRUCTURE MODEL: DSA401J-22 MAX. SIZE: VARIES MAX. AREA: VARIES MAX. OCCUPANCY: VARIES</div> <div>SEE SHEET 9.1-1000</div>
FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0
HEXAGON	TRI-TRUSS HIP JOINED	MARINER PEAK JOINED	FULL CANTILEVER HIP JOINED	JOINED HIP
				
<div>STRUCTURE MODEL: DSA30730-22 MAX. SIZE: 30' x 133' x 15' MAX. AREA: 3,990 SQ. FT. MAX. OCCUPANCY: 266 PERSONS</div> <div>SEE SHEET 23.1-1000</div>	<div>STRUCTURE MODEL: DSA407Q6060-22 MAX. SIZE: 60' x 60' x 15' MAX. AREA: 3,600 SQ. FT. MAX. OCCUPANCY: 240 PERSONS</div> <div>SEE SHEET 20.1-1000</div>	<div>STRUCTURE MODEL: DSA1031414-22 MAX. SIZE: 14' x 14' x 12' MAX. AREA: 196 SQ. FT. MAX. OCCUPANCY: 13 PERSONS</div> <div>SEE SHEET 13.1-1000</div>	<div>STRUCTURE MODEL: DSA1032020-22 MAX. SIZE: 20' x 20' x 12' MAX. AREA: 400 SQ. FT. MAX. OCCUPANCY: 26 PERSONS</div> <div>SEE SHEET 14.1-1000</div>	<div>STRUCTURE MODEL: DSA401Q-22 MAX. SIZE: VARIES MAX. AREA: VARIES MAX. OCCUPANCY: VARIES</div> <div>SEE SHEET 10.1-1000</div>
FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0
NOT USED	TENSIONS SAILS THREE-POINT	MARINER PEAK QUAD	SINGLE POST PYRAMID	QUAD HIP
				
<div>STRUCTURE MODEL: DSA124114-22 MAX. SIZE: 20' x 200' x 15' MAX. AREA: 4,000 SQ. FT. MAX. OCCUPANCY: 266 PERSONS</div> <div>SEE SHEET 24.1-1000</div>	<div>STRUCTURE MODEL: DSA4183030-22 MAX. SIZE: 30' x 133' x 15' MAX. AREA: 3,990 SQ. FT. MAX. OCCUPANCY: 266 PERSONS</div> <div>SEE SHEET 25.1-1000</div>	<div>STRUCTURE MODEL: DSA124114-22 MAX. SIZE: 14' x 14' x 12' MAX. AREA: 196 SQ. FT. MAX. OCCUPANCY: 13 PERSONS</div> <div>SEE SHEET 15.1-1000</div>	<div>STRUCTURE MODEL: DSA1242020-22 MAX. SIZE: 20' x 20' x 12' MAX. AREA: 400 SQ. FT. MAX. OCCUPANCY: 26 PERSONS</div> <div>SEE SHEET 16.1-1000</div>	<div>STRUCTURE MODEL: DSA401Q-22 MAX. SIZE: VARIES MAX. AREA: VARIES MAX. OCCUPANCY: VARIES</div> <div>SEE SHEET 10.1-1000</div>
FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0
NOT USED	TENSIONS SAILS FOUR-POINT	NOT USED	SINGLE POST PYRAMID CANTILEVER	



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CERTIFICATIONS:
IAS CERTIFICATION No: FA-428
CLARK COUNTY MANUFACTURER
CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:
Taft City School District

PROJECT NAME:
LOCATION:
Taft Primary Elementary
212 Lucard Street
Taft, CA 93268

MODEL NUMBER:

STRUCTURE TYPE:

SCALE : VARIES

DRAWING SIZE:
D

PRE-CHECK (PC)
DOCUMENT

Code : 2022 CBC
A separate project application
for construction is required.

Eng. By :	DWH	2/14/23
Design By :	DWH	2/14/23
Approved By :	DWH	2/14/23

DRAWING DESCRIPTION:

DWG. T&I FORMS

SHEET T-3.0

REV.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC
Application Number: School Name: School District:
04-121917 USA SHADE AND FABRIC STRUCTURES
DSA File Number: PC FABRIC SHADE STRUCTURES
04-121917
2023-02-15 15:23:09

2022 CBC
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, and other non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous - Indicates that a continuous special inspection is required	GE (Geotechnical Engineer) - Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. LOR (Laboratory of Record) - Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. PI (Project Inspector) - Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. SI (Special Inspection) - Indicates that the special inspection shall be performed by an appropriately qualified/registered special inspector.
Periodic - Indicates that a periodic special inspection is required	
Test - Indicates that a test is required	

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC
Table 1705A.3, ACI 318-19 Sections 26.12 & 26.13
Application Number: School Name: School District:
04-121917 USA SHADE AND FABRIC STRUCTURES
DSA File Number: PC FABRIC SHADE STRUCTURES
04-121917
2023-02-15 15:23:09

C1. CAST-IN-PLACE CONCRETE	Type	Performed By	Code References and Notes
Test or Special Inspection	Periodic	SI	Table 1705A.3 Item 5, 1710A.1.
a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1710A.1.
b. Identify, sample, and test reinforcing steel	Test	LOR	1710A.2, ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
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 318-19 Sections 26.5 & 26.12.
d. Test concrete (f'c)	Test	LOR	1705A.1.17; ACI 318-19 Section 26.12.
e. Batch plant inspection: Eliminated	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 IR 17-13. (See Appendix (end of this form) for exemptions.)
f. Welding of reinforcing steel.	Provide special inspection per STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.		

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):

Test or Special Inspection	Type	Performed By	Code References and Notes
a. Sample and test prestressing tendons and anchorages.	Test	LOR	1705A.3.4, 1710A.3.
b. Inspect placement of prestressing tendons.	Periodic	SI	1705A.3.4, Table 1705A.3 Items 1 & 9.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC
1705A.2.1, Table 1705A.2.1, AISI 308-16, AISI 341-16, AISI 358-16, AISI 360-16, AISI 5100-20, RCSC 2014, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8
Application Number: School Name: School District:
04-121917 USA SHADE AND FABRIC STRUCTURES
DSA File Number: PC FABRIC SHADE STRUCTURES
04-121917
2023-02-15 15:23:09

S/A3. WELDING:	Type	Performed By	Code References and Notes
Test or Special Inspection	Periodic	SI	1705A.2.5, Table 1705A.2.1 Items 4 & 5, AWS D1.1 and AWS D1.8 for AWS designation listed on the DSA-approved documents and the WPS.
a. Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	Periodic	SI	1705A.2.5, Table 1705A.2.1 Items 4 & 5, AWS D1.1 and AWS D1.8 for AWS designation listed on the DSA-approved documents and the WPS.
b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.

S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):

Test or Special Inspection	Type	Performed By	Code References and Notes
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 5a.1. 4; AISI 360-16 (and AISI 341-16 as applicable); DSA IR 17-3.
b. Inspect single-pass fillet welds < 5/16", floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Item 5a.5 & 5a.6; AISI 360-16 (and AISI 341-16 as applicable); DSA IR 17-3.
c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.1, AISI 360-16 (and AISI 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.
d. Verification of reinforcing steel weldability other than ASTM A706.	Periodic	SI	1705A.3.1, AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
e. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC
1705A.2.1, Table 1705A.2.1, AISI 308-16, AISI 341-16, AISI 358-16, AISI 360-16, AISI 5100-20, RCSC 2014, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8
Application Number: School Name: School District:
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Test or Special Inspection	Type	Performed By	Code References and Notes
a. Storage rack anchorage installation.	Periodic	SI	ANSI/MHFA.1 Section 7.3.2; Table 1705A.13.7.
d. Completed storage rack system to indicate compliance with the approved construction documents.	Periodic	SI*	Table 1705A.13.7.* May be performed by the project inspector when specifically approved by DSA.

S/A11. Other Steel

Test or Special Inspection	Type	Performed By	Code References and Notes
a.			

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC
Table 1705A.6, Table 1705A.7, Table 1705A.8
Application Number: School Name: School District:
04-121917 USA SHADE AND FABRIC STRUCTURES
DSA File Number: PC FABRIC SHADE STRUCTURES
04-121917
2023-02-15 15:23:09

Geotechnical Reports: Project does NOT have and does NOT require a geotechnical report

S1. GENERAL:	Type	Performed By	Code References and Notes
Test or Special Inspection			
a. Verify that: Soil 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. Materials below footings are adequate to achieve the design bearing capacity.	See Notes	PI	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	Type	Performed By	Code References and Notes
a. Verify use of proper materials, densities and inspect lift thickness, placement and compaction during placement of fill.	Continuous	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.
b. Compaction testing.	Test	LOR*	* Under the supervision of a geotechnical engineer or LOR's engineering manager. Refer to specific items identified in the Appendix listing exemptions for limitations.

S3. DRIVEN DEEP FOUNDATIONS (PILES):

Test or Special Inspection	Type	Performed By	Code References and Notes
a. Verify pile materials, sizes and lengths comply with the requirements.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
b. Determine capacities of test piles and conduct additional load tests as required.	Test	LOR*	* Under the supervision of the geotechnical engineer.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC
Table 1705A.3, ACI 318-19 Sections 26.12 & 26.13
Application Number: School Name: School District:
04-121917 USA SHADE AND FABRIC STRUCTURES
DSA File Number: PC FABRIC SHADE STRUCTURES
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Test or Special Inspection	Type	Performed By	Code References and Notes
a. Verify use of concrete strength prior to stressing of post-tensioning tendons.	Periodic	SI	Table 1705A.3 Item 13. Special inspector to verify specified concrete strength test prior to stressing.
b. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	Continuous	SI	1705A.3.4, Table 1705A.3 Item 9; ACI 318-14 Section 26.13.

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):

Test or Special Inspection	Type	Performed By	Code References and Notes
a. Inspect fabrication of precast concrete members.	Continuous	SI	ACI 318-19 Section 26.13.
b. Inspect erection of precast concrete members.	Periodic	SI*	Table 1705A.3 Item 10.* May be performed by PI when specifically approved by DSA.
c. 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: 1. Installation of the embedded parts 2. Completion of the continuity of reinforcement across joints 3. Completion of connections in the field	Continuous	SI	Table 1705A.3, ACI 318-19 Section 26.13.1.3; ACI 550.5
d. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5.	Periodic	SI	Table 1705A.3, ACI 318-19 Section 26.13.1.3; ACI 550.5

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC
1705A.2.1, Table 1705A.2.1, AISI 308-16, AISI 341-16, AISI 358-16, AISI 360-16, AISI 5100-20, RCSC 2014, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8
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Test or Special Inspection	Type	Performed By	Code References and Notes
S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):			
Test or Special Inspection			
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 5a.1. 4; AISI 360-16 (and AISI 341-16 as applicable); DSA IR 17-3.
b. Inspect single-pass fillet welds < 5/16".	Periodic	SI	Table 1705A.2.1 Item 5a.5; AISI 360-16 (and AISI 341-16 as applicable); DSA IR 17-3.
c. Inspect and welded studs (ASTM A-108) installation (including bend test).	Periodic	SI	2213A.2; AISI 360-16 (and AISI 341-16 as applicable); AWS D1.1; DSA IR 17-3.
d. Inspect floor and roof deck welds.	Periodic	SI	1705A.2.2, Table 1705A.2.1 Item 5a.6; AISI 360-16 (and AISI 341-16 as applicable); AWS D1.3; DSA IR 17-3.
e. Inspect welding of structural cold-formed steel.	Periodic	SI*	1705A.2.5, AWS D1.3; DSA IR 17-3. The quality control provisions of AISI 240-20 Chapter D shall also apply.* May be performed by the project inspector when specifically approved by DSA.
f. Inspect welding of stairs and railing systems.	Periodic	SI*	1705A.2.1; AISI 360-16 (and AISI 341-16 as applicable); AWS D1.1 & D1.3; DSA IR 17-3.* May be performed by the project inspector when specifically approved by DSA.
g. Verification of reinforcing steel weldability.	Periodic	SI	1705A.3.1, AWS D1.4; DSA IR 17-3. Verify carbon equivalent reported on mill certificates.
h. Inspect welding of reinforcing steel.	Continuous	SI	Table 1705A.2.1 Item 5b, 1705A.3.1, Table 1705A.3 Item 2, 1903A.8; AWS D1.4; DSA IR 17-3.

GENERAL DSA-103 NOTES:

- THE SAMPLE DSA-103 FORM PROVIDED ON THIS SHEET IS FOR ILLUSTRATIVE PURPOSES ONLY TO ASSIST IN THE COMPLETION OF SPECIFIC DSA-103 FORMS FOR FUTURE PROJECTS.
- A CURRENT DSA-103 FORM IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS P.C. DOCUMENT IS BEING INCORPORATED INTO AND ALL SAMPLE DSA-103 SHEETS ARE TO BE CROSSED OUT ON THIS SHEET

ADDITIONAL TESTING AND INSPECTION NOTES:

- THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE EMPLOYED BY THE SCHOOL DISTRICT AND APPROVED BY DSA AND THE ARCHITECT OF RECORD.
- A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, COR.
- THE SITE PROJECT INSPECTOR SHALL BE CLASS 2.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TEST AND INSPECTIONS FOR THE PROJECT.
- THE COSTS OF THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE BORNE BY THE SCHOOL DISTRICT.
- COPIES OF THE VERIFIED REPORTS SHALL BE SENT TO DSA, THE ARCHITECT, THE SCHOOL DISTRICT, THE CONTRACTOR, AND THE PROJECT INSPECTOR.
- THE IN-PLANT INSPECTOR SHALL BE A WELDING SPECIAL INSPECTOR FOR MATERIAL VERIFICATION AND WELDING.
- PER 2022 CBC, SECTION 1705A.3.3, BATCH PLANT INSPECTION MAY BE WAIVED WHEN THE FOLLOWING REQUIREMENTS ARE MET:
 - A LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
 - BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY THE TRUCK DRIVER WITH A LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE RECORDED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR OF RECORD SHALL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, TIME OF RECEIPT AT THE JOBSITE, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND SHALL MAINTAIN A COPY OF THE DAILY RECORD AS REQUIRED BY THE ENFORCING AGENCY.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC
Table 1705A.6, Table 1705A.7, Table 1705A.8
Application Number: School Name: School District:
04-121917 USA SHADE AND FABRIC STRUCTURES
DSA File Number: PC FABRIC SHADE STRUCTURES
04-121917
2023-02-15 15:23:09

Test or Special Inspection	Type	Performed By	Code References and Notes
a. Inspect driving operations and maintain complete and accurate records for each pile.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
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.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
c. Steel piles.	Provide tests and inspections per STEEL section below.		
d. Concrete piles and concrete filled piles.	Provide tests and inspections per CONCRETE section below.		
e. 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	Type	Performed By	Code References and Note
a. Inspect driving operations and maintain complete and accurate records for each pier.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
b. Verify pier locations, diameters, plumbness and lengths/Record concrete or gravel volumes.	Continuous	PI	Continuous inspection to be provided by project inspector. Refer to specific items identified in the Appendix listing exemptions for limitations.
c. Concrete piers.	Provide tests and inspections per CONCRETE section below.		

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC
Table 1705A.3, ACI 318-19 Sections 26.12 & 26.13
Application Number: School Name: School District:
04-121917 USA SHADE AND FABRIC STRUCTURES
DSA File Number: PC FABRIC SHADE STRUCTURES
04-121917
2023-02-15 15:23:09

C4. SHOTCRETE (IN ADDITION TO SECTION C1):

Test or Special Inspection	Type	Performed By	Code References and Notes
a. Inspect shotcrete placement for proper application techniques.	Continuous	SI	1705A.3.9, Table 1705A.3 Item 7, 1908A.1, 1908A.2, 1908A.3. See ACI 506.2-13 Section 3.4; ACI 506A-16.
b. Sample and test shotcrete (f'c).	Test	LOR	1908A.2, 1705A.3.9

C5. POST-INSTALLED ANCHORS:

Test or Special Inspection	Type	Performed By	Code References and Notes
a. Inspect installation of post-installed anchors	See Notes	SI*	1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix (end of this form) for exemptions); ACI 318-14 Sections 17.8 & 26.13.* May be performed by the project inspector when specifically approved by DSA.
b. Test post-installed anchors	Test	LOR	1910A.5. (See Appendix (end of this form) for exemptions.)

C6. OTHER CONCRETE:

Test or Special Inspection	Type	Performed By	Code References and Notes
a.			

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC
1705A.2.1, Table 1705A.2.1, AISI 308-16, AISI 341-16, AISI 358-16, AISI 360-16, AISI 5100-20, RCSC 2014, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8
Application Number: School Name: School District:
04-121917 USA SHADE AND FABRIC STRUCTURES
DSA File Number: PC FABRIC SHADE STRUCTURES
04-121917
2023-02-15 15:23:09

Test or Special Inspection	Type	Performed By	Code References and Notes
S/A6. NONDESTRUCTIVE TESTING:			
Test or Special Inspection			
a. Ultrasonic.	Test	LOR	1705A.2.1, 1705A.2.5; AISI 341-16, J6.2; AISI 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
b. Magnetic Particle	Test	LOR	1705A.2.1, 1705A.2.5; AISI 341-16, J6.2; AISI 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
c.	Test	LOR	

S/A7. STEEL JOISTS AND TRUSSES:

Test or Special Inspection	Type	Performed By	Code References and Notes
a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joint profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joint.	Continuous	SI	1705A.2.3, Table 1705A.2.3, AWS D1.1; DSA IR 22-3 for steel joints only; 1705A.2.4; AWS D1.3 for cold-formed steel trusses.

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC
Table 1705A.6, Table 1705A.7, Table 1705A.8
Application Number: School Name: School District:
04-121917 USA SHADE AND FABRIC STRUCTURES
DSA File Number: PC FABRIC SHADE STRUCTURES
04-121917
2023-02-15 15:23:09

Test or Special Inspection	Type	Performed By	Code References and Notes
S5. RETAINING WALLS:			
Test or Special Inspection			
a. Placement, compaction and inspection of backfill.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. (See Section 52 above).
b. Placement of soil reinforcement and/or drainage devices.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
c. Segment retaining walls: Inspect placement of units, dowels, connectors, etc.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. See DSA IR 18-2.
d. Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
e. Masonry retaining walls.	Provide tests and inspections per MASONRY section below.		

S6. OTHER SOILS:

Test or Special Inspection	Type	Performed By	Code References and Notes
a. Soil Improvements	Test	GE*	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.
b. Inspection of Soil Improvements	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
c.			

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC
1705A.2.1, Table 1705A.2.1, AISI 308-16, AISI 341-16, AISI 358-16, AISI 360-16, AISI 5100-20, RCSC 2014, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8
Application Number: School Name: School District:
04-121917 USA SHADE AND FABRIC STRUCTURES
DSA File Number: PC FABRIC SHADE STRUCTURES
04-121917
2023-02-15 15:23:09

S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES

Test or Special Inspection	Type	Performed By	Code References and Notes
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		Table 1705A.2.1 Item 5a, 3c, 2202A.1; AISI 5100-20 Section A3.1 & A3.2; AISI 5240-20 Section A3.1 & A3.2; AISI 5220-20 Sections A4.1 & A4.2. By special inspector or qualified technician when performed off-site.
b. Test unidentified materials.	Test	LOR	2202A.1.
c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
d. 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).
e. Building restrained bracing.	Test	LOR	Testing and special inspections in accordance with IR 22-4.

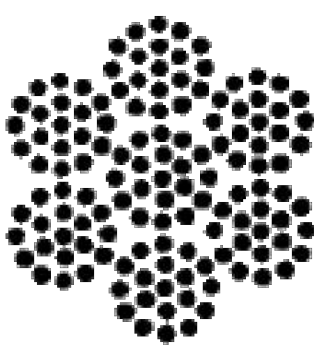
S/A2. HIGH-STRENGTH BOLTS: SEE STRUCTURAL NOTES ON SERIES 1000 SHEETS FOR JOINT TYPE

Test or Special Inspection	Type	Performed By	Code References and Notes
a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Periodic	SI	Table 1705A.2.1 Items 1a & 1b, 2202A.1; AISI 360-16 Section A3.3, J3.1, and A3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
b. Test high-strength bolts, nuts and washers.	Test	LOR	Table 1705A.2.1 Item 1c, 2213A.1; RCSC 2014 Section 7.2; DSA IR 17-8.
c. Bearing-type ("snug tight") connections.	Periodic	SI	Table 1705A.2.1 Item 2a, 1705A.2.6,

Aircraft Cable

Preformed, made in accordance with commercial specifications military and federal specification rope available.

Carbon Steel (Aircraft Cable) - Galvanized cable has the highest strength and greatest fatigue life of the materials offered. It has good to fair corrosion resistance in rural to industrial atmosphere environments. This material is most widely used for small diameter cables. Tin over galvanized cable offers greater corrosion resistance and reduced friction over pulleys.



7 x 19

7 x 19		Galvanized Min. Breaking Strengths (lbs)
Dia. (In)	Approx. Wt 1000 Ft/lbs	
3/32	17.	1,000
1/8	29.	2,000
5/32	45.	2,800
3/16	65.	4,200
7/32	86.	5,600
1/4	110.	7,000
9/32	139.	8,000
5/16	173.	9,800
3/8	243.	14,400



190/F5 Fire rated specifications

Standard range

Revision 0 28-Oct-12

Colour	Shade %	UV Block %	Average GSM	Average Warp break strength kgs	Average Elongation %	Average Weft break strength kgs	Average Elongation %	Average Burst Kpa	Average Burst to Mass ratio
Desert Sand	80	92	185	50	40	72	73	156	0.84
Blue	80	85	185	50	40	72	73	156	0.84
Brown	85		185	50	40	72	73	156	0.84
Green	80	85	185	50	40	72	73	156	0.84
Red	80	86	185	50	40	72	73	156	0.84
Silver	80	81	185	50	40	72	73	156	0.84
Terracotta	75	82	185	50	40	72	73	156	0.84
Yellow	80	89	185	50	40	72	73	156	0.84
				110 LB		159 LB		3258 PSF	

CONVERSION TO IMPERIAL UNITS:
185 GSM = .0378 psf
50 KGS = 110 Lb
72 KGS = 159 Lb
156 Kpa = 3258 psf

Notes:
- 190/F5 conforms to The California State Fire Marshal Title 19 Test for Small scale Fabrics
- Tear tests are done using a 50mm wide strip and a cross head speed of 500mm/min
- This report has been compiled using the mean results from all tests conducted on the given sample by our Quality Control Laboratory, the information provided is considered to be a good reflection of the relevant properties of the fabric tested. These results must only be used as an indication of the quality and characteristics of the fabric tested.
- Company cannot be held responsible or liable in any way whatsoever should this information differ to that of a registered testing institution.

Deon Joubert
General Manager - Multiknit (Pty) Ltd

Tommy Rogers
Managing Director - Multiknit (Pty) Ltd



FLAME RETARDANT

Fabric Registration

LICENSE NUMBER: F-052001

COLOURSHADE 190/F5

Product Marketed by:

MULTIKNIT (PTY) LTD
BOX 798 WHITE RIVER 1240
MPUMALANGA SOUTH AFRICA, ,

Issue Date : 05/08/2023

Expiration Date : 06/30/2024

This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code. The scope of the approved use of this product is provided in the current edition of the CALIFORNIA APPROVED LIST OF FLAME RETARDANT CHEMICALS AND FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS published by the California State Fire Marshal.

C Walker

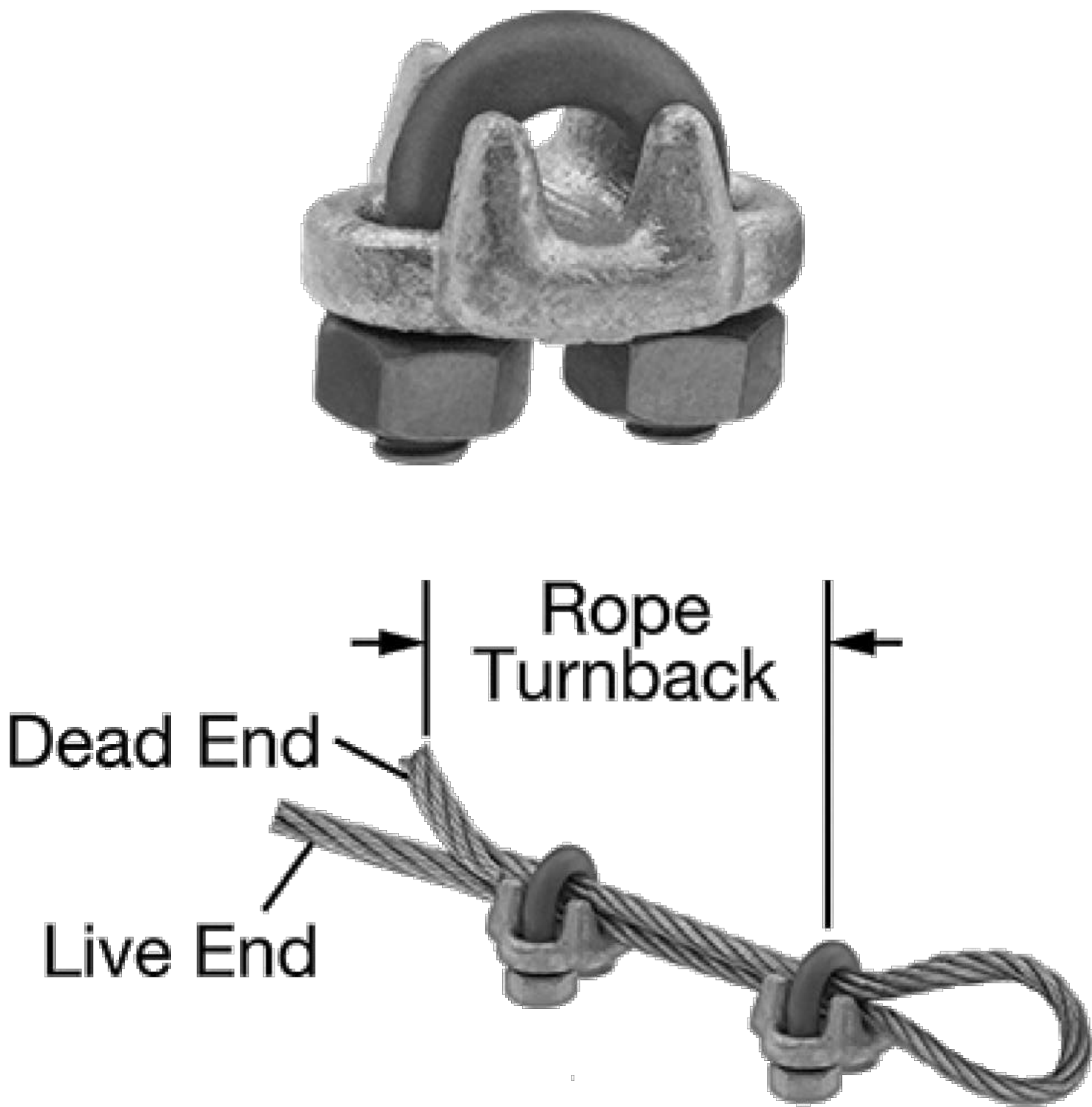
Issued By Cortney Walker
Fire Engineering License Manager
Fire Engineering & Investigations Division

Patricia Setter

Reviewed and Approved By Patricia Setter
Deputy State Fire Marshal III
Fire Engineering & Investigations Division

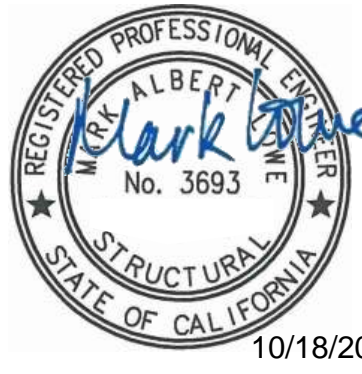
OFFICE OF THE STATE FIRE MARSHAL

Please visit calfire.gov/motus.org for more information on Licensing and Permitting with CAL FIRE



FORGED WIRE ROPE CLAMP

FITTING TYPE ROPE CLAMP
FABRICATION: FORGED
MATERIAL: GALVANIZED STEEL
FOR WIRE ROPE DIAMETER 3/8"
NUMBER OF CLAMPS REQUIRED: 2
ROPE TURNBACK: 6 1/2"
FOR WIRE ROPE CONSTRUCTION 7 x 19
ATTACHMENT TYPE: LOOP
CLAMP: WIDTH 2", HEIGHT 1 15/16", THICKNESS 1 11/16"
REQUIRED INSTALLATION TOOL TORQUE WRENCH
REQUIRED TORQUE 45 FT.-LBS.
CAPACITY 80% OF THE ROPE'S CAPACITY
SPECIFICATIONS MET ASME B30.26, FED. SPEC. FF-C-450



STRUCTURE TYPE:

HIP
DSA

SIZE: MAXIMUM
30' x 40' x 12'e MAX.

SCALE : NONE

DRAWING SIZE:

D

PRE-CHECK (PC) DOCUMENT

Code : 2022 CBC
A separate project application for construction is required.

Eng. By : HH 12/01/22

Design By : OS 12/01/22

Approved By : MB 12/01/22

DRAWING DESCRIPTION:

SPECIFICATIONS

DWG. DSA401304012-22

SHEET 7.2-2000

REV. NC