Chino Valley Unified School District

Scope of Work for Ayala HS and Chino Hills HS AQUATIC Scoreboard Replacement Project

Contractor's License: A and/or B
Contractor Duration: 365 calendar days

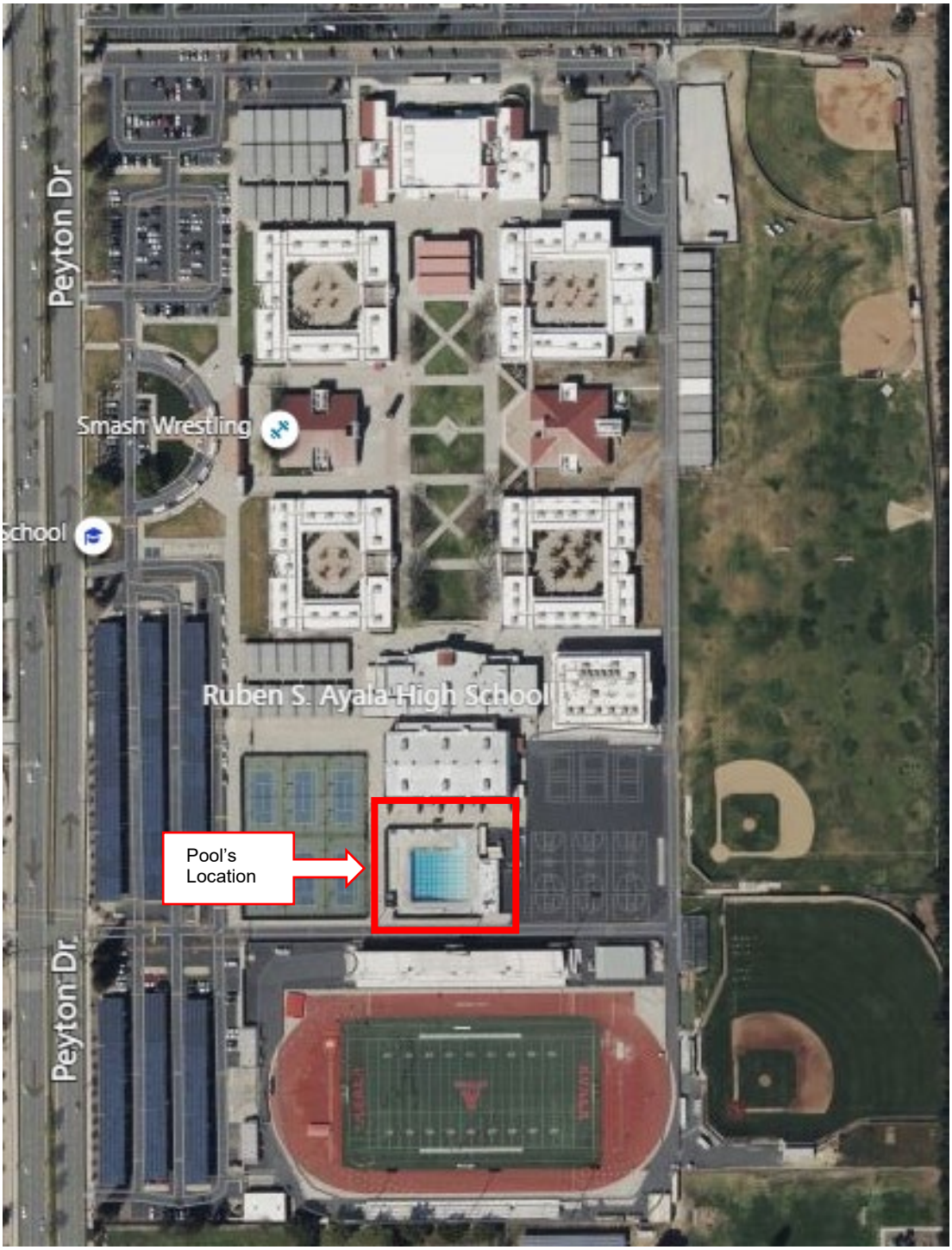
The successful contractor shall supply all labor, materials, services, insurance, and equipment necessary to complete the work. **The Contractor shall thoroughly investigate the premises for a complete understanding of the scope of work required for this bid.**

Ayala High School – A04-121522
Chino Hills High School – A04-121523

Scope of Work Overview

1. Provide (2) Aquatic Score Boards per the approved drawings
2. Install/construct (2) Aquatic Score Board per the approved drawings. Structural stee shall be hot-dip galvanized per the PC drawing: Finish paint color TBD.
3. Install/construct all site works including, but not limited to electrical, concrete, and asphalt paving per the approved drawings.

Ayala HS – 14255 Peyton Drive, Chino Hills, CA 91709



DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2019 CBC

Application Number:	**School Name:**	**School District:**
04-121522	Ayala High School	Chino Valley Unified School District
DSA File Number:	**Increment Number:**	**Date Created:**
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2019 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, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2019 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 **Periodic** – Indicates that a periodic special inspection is required **Test** – Indicates that a test is required	**GE** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. **LOR** – 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 –** Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. **SI** – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number:	**School Name:**	**School District:**
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Geotechnical Reports: Project does NOT have and does NOT require a geotechnical report

	S1. GENERAL:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • 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 thicknesses, 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 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

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	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**c.** Inspect driving operations and maintain complete and accurate records for each pile.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**d.** 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.
☐	**e.** Steel piles.	Provide tests and inspections per STEEL section below.		
☐	**f.** Concrete piles and concrete filled piles.	Provide tests and inspections per CONCRETE section below.		
☐	**g.** 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 drilling 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 grout 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 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2019 CBC

Table 1705A.6, Table 1705A.7, Table 1705A.8

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	Test or Special Inspection	Type	Performed By	Code References and Notes
	S5. RETAINING WALLS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Placement, compaction and inspection of backfill.	**Continuous**	**GE***	**1705A.6.1.** * By geotechnical engineer or his or her qualified representative. (See S2 above).
☐	**b.** Placement of soil reinforcement and/or drainage devices.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative.
☐	**c.** Segmental retaining walls; inspect placement of units, dowels, connectors, etc.	**Continuous**	**GE***	* By geotechnical engineer or his or her qualified representative. See DSA IR 16-3.
☐	**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 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 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2019 CBC

Table 1705A.3; ACI 318-14 Sections 26.12 & 26.13

Application Number:	**School Name:**	**School District:**
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	C1. CAST-IN-PLACE CONCRETE			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify use of required design mix.	**Periodic**	**SI**	**Table 1705A.3 Item 5, 1910A.1.**
☑	**b.** Identifiy, sample, and test reinforcing steel.	**Test**	**LOR**	**1910A.2;** ACI 318-14 Section 26.6.1.2; DSA IR 17-10. (See Appendix 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 318-14 Sections 26.5 & 26.12.
☑	**d.** Test concrete (f'_c).	**Test**	**LOR**	**1905A.1.15;** ACI 318-14 Section 26.12.
☑	**e.** Batch plant inspection:	**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 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, 1910A.3**
☐	**b.** Inspect placement of prestressing tendons.	**Periodic**	**SI**	**1705A.3.4, Table 1705A.3 Items 1 & 9.**

	Test or Special Inspection	Type	Performed By	Code References and Notes
☐	**c.** Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	**Periodic**	**SI**	**Table 1705A.3 Item 11.** Special inspector to verify specified concrete strength test prior to stressing.
☐	**d.** 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 318-14 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.

	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.19, Table 1705A.3 Item 7, 1908A.6, 1908A.7, 1908A.8, 1908A.9, 1908A.11, 1908A.12.** See ACI 506.2-13 Section 3.4, ACI 506R-16.
☐	**b.** Sample and test shotcrete (f'_c).	**Test**	**LOR**	**1908A.5, 1908A.10.**

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Table 1705A.3; ACI 318-14 Sections 26.12 & 26.13

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	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 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 for exemptions.)

	C6. OTHER CONCRETE:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.**			

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	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 3a–3c.** 2202A.1**;** AISI S100-16 Section A3.1 & A3.2, AISI S240-15 Section A3 & A5, AISI S220-15 Sections A4 & A6. * 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.** Buckling restrained braces.	**Test**	**LOR**	Testing and special inspections in accordance with IR 22-4.

	S/A2. HIGH-STRENGTH BOLTS:			
	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;** AISC 360-16 Section A3.3, J3.1, and N3.2; 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, 2204A.2**; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
☐	**d.** Pretensioned and slip-critical connections.	*	**SI**	**Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2;** AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 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	**Type**	**Performed By**	**Code References and Notes**
☑	**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 structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
☑	**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 Items 5a.1–4;** AISC 360-16 (and AISC 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 Items 5a.5 & 5a.6;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐	**c.** Inspect welding of stairs and railing systems.	**Periodic**	**SI**	**1705A.2.1**; AISC 360-16 (and AISC 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.

	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	**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 Items 5a.1–4;** AISC 360-16 (AISC 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;** AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	**c.** Inspect end-welded studs (ASTM A-108) installation (including bend test).	**Periodic**	**SI**	**2213A.2**; AISC 360-16 (AISC 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;** AISC 360-16 (AISC 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 S240-15 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;** AISC 360-16 (AISC 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.

	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A6. NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Ultrasonic	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; ANSI/ASNT CP-189, SNT-TC-1A; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	**b.** Magnetic Particle	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; ANSI/ASNT CP-189, SNT-TC-1A; 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 joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	**Continuous**	**SI**	**1705A.2.3, Table 1705A.2.3;** AWS D1.1; DSA IR 22-3 for steel joists only. **1705A.2.4;** AWS D1.3 for cold-formed steel trusses.

	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A8. SPRAY APPLIED FIRE-PROOFING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	**Periodic**	**SI**	**1705A.14.**
☐	**b.** Test bond strength.	**Test**	**LOR**	**1705A.14.6.**
☐	**c.** Test density.	**Test**	**LOR**	**1705A.14.5.**

	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A9. ANCHOR BOLTS AND ANCHOR RODS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Anchor Bolts and Anchor Rods	**Test**	**LOR**	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
☐	**b.** Threaded rod not used for foundation anchorage.	**Test**	**LOR**	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A10. Other Steel			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.**			

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	X1. OTHER:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Load test for identified product(s):	**Test**	**LOR**	**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.** Installation torque for non-HS bolts	**Continuous**	**SI***	Applicable to communication towers 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.
☐	**c.**			

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number:	School Name:	School District:
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Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests **/** special inspections noted. **Items marked as exempt shall be identified on the approved construction documents**. The project inspector shall verify all construction complies with the approved construction documents.

	SOILS:
☐	1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per CBC Table 1806A.2 and having no geotechnical report 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.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
☐	2. Shallow foundations, etc. 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.

	CONCRETE/MASONRY:
☐	1. 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 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding."
☑	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.
☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1.16. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
☐	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number:	**School Name:**	**School District:**
04-121522	Ayala High School	Chino Valley Unified School District
DSA File Number:	**Increment Number:**	**Date Created:**
36-H3		2022-10-10 13:38:19

	CONCRETE/MASONRY:
☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

	WELDING:
☐	1. Solid-clad and open-mesh 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. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
☐	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
☐	4. Manufactured support frames and curbs using hot rolled or cold-formed 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 as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	5. 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 as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	6. 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 as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category).
☐	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2019 CBC

Application Number:
04-121522

School Name:
Ayala High School

School District:
Chino Valley Unified School District

DSA File Number:
36-H3

Increment Number:

Date Created:
2022-10-10 13:38:19

Name of Architect or Engineer in general responsible charge:

ROBERT LAVEY

Name of Structural Engineer (When structural design has been delegated):

Signature of Architect or Structural Engineer: Date: 10/10/2022

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

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121522 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 12/21/2022

DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

Application Number:	School Name:	School District:
04-121522	Ayala High School	Chino Valley Unified School District
DSA File Number:	**Increment Number:**	**Date Created:**
36-H3		2022-10-10 13:38:19

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
3. Field Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
4. High-Strength Bolt Installation Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

DSA **140**

APPLICATION FOR SUBMITTAL OF POST-APPROVAL DOCUMENT

This application is for submittal of documents, after the initial approval of the project (post-approval documents), that require Division of the State Architect (DSA) review and approval.This form shall be completed by the Design Professional in General Responsible Charge of the project, in accordance with California Code of Regulations, Title 24, Part 1, Sections 4-317, 4-323 and 4-338 and in compliance with DSA IR A-6: Construction Change Document Submittal and Approval Process.

DSA documents referenced within this form are available on the DSA Forms or DSA Publications webpages.

1. SUBMITTAL TYPE: (Is this a resubmittal? Yes ☑ No ☐)

Deferred Submittal	Addendum Number: 001	Revision Number:	CCD Number:	Category A ☐ or B ☐

2. PROJECT INFORMATION:

School District/Owner: Chino Valley Unified School District	DSA File Number: 36 H3
Project Name/School: Ayala High School Aquatic Scoreboard Replacement	DSA Application Number 04 121522

3. APPLICANT INFORMATION:

Date Submitted: 08/04/23	Attached Pages? No ☐ Yes ☑ Number of pages? 8		
Firm Name: PBK	Contact Name: Robert Lavey		
Work Email: robert.lavey@pbk.com	Work Phone: (909) 987-0909		
Firm Address: 8163 Rochester Avenue	City: Rancho Cucamonga	State: CA	Zip Code: 91730

4. REASON FOR SUBMITTAL: (Check applicable boxes)

✔ For revision or addendum prior to construction.	For a project currently under construction.

For a project that has a form *DSA 301-N: Notification of Requirement for Certification*, *DSA 301-P: Posted Notification of Requirement for Certification* or a 90-Day Letter issued.

To obtain DSA approval of an existing uncertified building or buildings.

For Category B CCD this is: ☐ a voluntary submittal, ☐ a DSA required submittal (attach DSA notice requiring submission).

5. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE:

Name of the Design Professional In General Responsible Charge: Robert Lavey

Professional License Number: C28020	Discipline: Architect

Design Professional in General Responsible Charge Statement: The attached post-approval documents have been examined by me for design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications. They are acceptable for incorporation into the construction of the project.

Signature: _____

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE

6. CONFIRMATION, DESCRIPTION AND LISTING OF DOCUMENTS:

For addenda, revisions, or CCDs: CHECK THIS BOX ☑ to confirm that *all* post-approval documents have been stamped and signed by the Responsible Design Professional listed on form *DSA 1: Application for Approval of Plans and Specifications* for this project. (For *Deferred Submittals*, refer to *IR A-18: Use of Construction Documents Prepared by Other Professionals,* and *IR A-19: Design Professional's Signature and Seal (Stamp) on Construction Documents*, when applicable, for signature and seal requirements.)

Provide a brief description of construction scope for this post-approval document (attach additional sheets if needed):

Addendum 1: Scoreboard manufacturer swaps.

List of DSA-approved drawings affected by this post-approval document:

See attached Addendum 1 for list of affected drawings.

DSA USE ONLY

SSS CB Date 08/04/2023 [Approved] Disapproved Not Required

Comments:

FLS RF Date 06/29/2023 [Approved] Disapproved Not Required

Comments:

ACS _____ Date _____ Approved Disapproved [Not Required]

Comments:

Returned	DSA STAMP
Date: 08/04/2023	APPROVED DIV. OF THE STATE ARCHITECT APP: 04-121522 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☐ DATE: 08/04/2023
By: DP	

8163 Rochester Avenue
Rancho Cucamonga, CA 91730
P. +1 909-987-0909
PBK.com

June 14, 2023

TO	:	All Bidders
FROM	:	Robert Lavey
PROJECT	:	Ayala High School Aquatic Scoreboard Replacement Project W2105800AR.41
SUBJECT	:	Addendum 1
DSA	:	04-121522 / 36-H3

The following changes, omissions, and/or additions to the Project Manual and/or Drawings shall apply to proposals made for and to the execution of the various parts of the work affected thereby, and all other conditions shall remain the same.

Careful note of the Addendum shall be taken by all parties of interest so that the proper allowances may be made in strict accordance with the Addendum, and that all trades shall be fully advised in the performance of the work which will be required of them.

Bidder shall acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

In case of conflict between Drawings, Project Manual, and this Addendum, this Addendum shall govern.

1. DRAWINGS

Architectural

1.1 DRAWING A0.1 - GENERAL NOTES PROJECT DIRECTORY

A. Revised as indicated in the clouded area labeled Delta 1on the attached revised Drawing A0.1.

1.2 DRAWING A1.2 - ENLARGED SITE PLAN AND ELEVATION

A. Revised as indicated in the clouded area labeled Delta 1 on the attached revised Drawing A1.2.

1.3 DRAWING A1.3 - SPECIFICATION

A. Delete drawing in its entirety.

Electrical

1.4 DRAWING E-1 - ELECTRICAL GENERAL NOTES, SYMBOLS & DETAILS

A. Revised as indicated in the clouded area labeled Delta 1 on the attached revised Drawing E-1.

1.5 DRAWING E-2 - POOL BUILDING ELECTRICAL PLAN

A. Revised as indicated in the clouded area labeled Delta 1 on the attached revised Drawing E-2.

Aquatic Scoreboard

1.6 DRAWING SB.1 - SCOREBOARD DETAILS

A. Add the attached Drawing SB.1 in its entirety.

1.7 DRAWING SB.2 - NEW TIMING SYSTEM NOTES / EQUIPMENT

A. Add the attached Drawing SB.2 in its entirety.

1.8 DRAWING SHEET 1 - SCOREBOARD PC COVER SHEET

A. Delete Drawing Sheet 1 in its entirety.

1.9 DRAWING SHEET 5 - MOUNTING DETAILS W/ VIDEO DISPLAY

A. Delete Drawing Sheet 5 in its entirety.

1.10 DRAWING SHEET 7 - 2-COLUMN STRUCTURE W/ PIER FOUNDATIONS

A. Delete Drawing Sheet 7 in its entirety.

END OF ADDENDUM 1

Submitted by,

BOB LAVEY
AIA, LEED AP
Managing Partner, Architect

RL:BW:br/P4W2105800ARx1-add

Attachments: A0.1, A1.2, E-1, E-2, SB.1, SB.2

LICENSED ARCHITECT
ROBERT LAVEY
No. C28020
EXP. 1/31/25
STATE OF CALIFORNIA

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121522 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 08/04/2023

AQUATIC SCOREBOARDS REPLACEMENT - AYALA HIGH SCHOOL
CHINO VALLEY UNIFIED SCHOOL DISTRICT
14255 PEYTON DRIVE, CHINO HILLS, CA 91709

GENERAL NOTES

1. THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

2. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.

3. THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF WLC ARCHITECTS, INC., AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF WLC ARCHITECTS, INC.

4. THE WORK SHOWN ON THESE DRAWINGS AS EXISTING CONDITIONS WAS PREPARED FROM INFORMATION FURNISHED BY THE OWNER. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, WLC ARCHITECTS, INC. IS NOT RESPONSIBLE FOR THE ACCURACY OR ADEQUACY OF ANY WORK SHOWN AS EXISTING NOR IS WLC ARCHITECTS, INC. RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

5. EACH BIDDER SHALL POSSESS AT THE TIME OF BID A CLASS B OR THE APPROPRIATE CLASS C CONTRACTOR'S LICENSE PURSUANT TO PUBLIC CONTRACT CODE SECTION 3300 AND BUSINESS AND PROFESSIONS CODE SECTION 7028.15. THE SUCCESSFUL BIDDER MUST MAINTAIN THE LICENSE THROUGHOUT THE DURATION OF THIS CONTRACT.

6. FIRE SAFETY DURING CONSTRUCTION

   A. GENERAL: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9, CHAPTER 5 AND CHAPTER 33.

   B. ACCESS ROADS: FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33, SECTION 3310.

   C. WATER SUPPLY: WATER MAINS AND HYDRANTS SHALL BE OPERATIONAL IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33,SECTION 3312.

   D. BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIREFIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS, OR FIRE APPLIANCES.

   E. ALTERATIONS OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33.

   F. DEMOLITION OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33.

   G. FIRE WATCH: MAINTAIN FIRE WATCH WHEN REQUIRED BY THE BUILDING OFFICIAL AND WHEN EXISTING FIRE PROTECTION SYSTEMS ARE SHUT DOWN FOR ALTERATIONS IN ACCORDANCE WITH CHAPTER 33, SECTION 3304.5. FIRE WATCH SHALL REMAIN IN EFFECT UNTIL EXISTING FIRE PROTECTION SYSTEMS ARE RETURNED TO SERVICE OR AS ALLOWED BY THE BUILDING OFFICIAL.

7. INSPECTOR OF RECORD REQUIREMENTS

   A. ONE OR MORE INSPECTORS EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS WILL BE ASSIGNED TO THE WORK. THE INSPECTOR'S DUTIES ARE SPECIFICALLY DEFINED IN SECTION 4-342 OF SAID TITLE 24, PART 1 AND IN ADDITION SHALL BE AS STIPULATED IN INTERPRETATION OF REGULATION DOCUMENT IR A-8.

   B. INSPECTOR SHALL BE CERTIFIED AS A CLASS 3 INSPECTOR THROUGH THE DIVISION OF THE STATE ARCHITECT INSPECTOR EXAMINATION PROGRAM. INSPECTOR SHALL ALSO BE SPECIFICALLY APPROVED BY THE DIVISION OF THE STATE ARCHITECT FOR THIS PROJECT AT LEAST 10 DAYS PRIOR TO THE START OF ANY WORK FOR THIS PROJECT.

8. ALL WORK SHOWN ON THESE DRAWINGS SHALL COMPLY WITH THE REQUIREMENTS OF 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

9. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY TITLE 24, CCR, PART 1, SECTION 4-338.

10. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS, AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

11. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ADDITION, ALTERATION OR RECONSTRUCTION IS IN COMPLIANCE WITH THE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT IDENTIFIED BY THE CONTRACT DOCUMENTS WHEREIN THE FINAL WORK WOULD NOT COMPLY WITH THE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ARCHITECT OF THE CONDITION IN WRITING. NECESSARY INFORMATION REQUIRED TO CORRECT THE CONDITIONS ENCOUNTERED WILL BE ISSUED BY THE ARCHITECT. A CHANGE ORDER MAY BE ISSUED TO ADJUST THE CONTRACT SUM OR TIME COMMENSURATE WITH THE AMOUNT OF ADDITIONAL WORK REQUIRED, IF ANY. A CONSTRUCTION CHANGE DOCUMENT SHALL BE APPROVED BY THE DIVISION OF THE STATE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK REQUIRED BY THE CHANGE ORDER. TITLE 24, CCR, PART 1, SECTION 4-317(c)

12. DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

DESIGN LOADS

WIND DESIGN"

1. BASIC WIND SPEED: V = 95 M.P.H. WIND DESIGN METHOD, ASCE 7-16, 29.3.1
2. RISK CATEGORY = II F = 3,488 lb. (WIND LOADS GOVERN)
3. WIND EXPOSURE = C LOAD COMB. ASCE 7-16, 2.4.1 (5)

SEISMIC DESIGN:
RISK CATEGORY = II
Ss: 1.841
S1: 0.648
SITE CLASS = D
Sds: 1.473
Sd1: 0.734

SEISMIC DESIGN BASIS - NON BINDING STRUCTURE, ASCE 7-16, 15.4.1
STRUCTURE TYPE: SIGNS AND BILLBOARDS, TABLE 15.4-2
R = 3
Cs = 0.49
Wp = 2,586 lb.
V = 1,270 lb.
LOAD COMB. ASCE 7-16, 2.4.5 (8)

PRESUMPTIVE LOAD BEARING VALUES OF SOILS TABLE 1806A.2
LATERAL BEARING PRESSURE = (100 PSF / FT) (2) = 200 PSF / FT
(1806A3.4 ALLOWS FOR ISOLATED POLES TO BE TWO TIMES THE TABULAR VALUES FOR SHORT TERM LOADS)

1

DRAFTING SYMBOL LEGEND

DETAIL
10 = DETAIL DESIGNATION
8.3 = REFERENCE DRAWING NUMBER

REVISION
3 = REVISION NUMBER

REFERENCE NOTE IDENTIFICATION
06 = DIVISIONAL PREFIX

CENTER LINES, FLOOR LINES AND LEVEL LINES

BREAKS OF BUILDING COMPONENTS

1

GOVERNING CODES

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1	
2019 CALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2	(2018 INTERNATIONAL BUILDING CODE (IBC) W/ CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3	(2017 NATIONAL ELECTRIC CODE (NEC) W/ CALIFORNIA AMENDMENTS)
2019 CALIFORNIA MECHANICAL CODE (CMC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 4	(2018 UNIFORM MECHANICAL CODE (UMC) W/ CALIFORNIA AMENDMENTS)
2019 CALIFORNIA PLUMBING CODE (CPC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 5	(2018 UNIFORM PLUMBING CODE (UPC) W/ CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ENERGY CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6	
2019 CALIFORNIA HISTORICAL BUILDING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 8	
2019 CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9	(2018 INTERNATIONAL FIRE CODE (IFC) W/ CALIFORNIA AMENDMENTS)
2019 CALIFORNIA EXISTING BUILDING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 10	(2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC) W/ CALIFORNIA AMENDMENTS)
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 11	
2019 CALIFORNIA REFERENCED STANDARDS CODE -CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12	1990 STATE FIRE MARSHAL REGULATIONS (AS AMENDED TO DATE) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19
CALIFORNIA ELEVATOR SAFETY CODE, CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 8 (AS AMENDED TO DATE)	
2010 AMERICANS WITH DISABILITY ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN (ADAS)	

APPLICABLE NFPA , UL AND ICC STANDARDS

NFPA 13	-	AUTOMATIC SPRINKLER SYSTEMS, 2016 EDITION
NFPA 14	-	STANDPIPE SYSTEMS, 2016 EDITION
NFPA 17	-	DRY CHEMICAL EXTINGUISHING SYSTEMS, 2017 EDITION
NFPA 17A	-	WET CHEMICAL SYSTEMS, 2017 EDITION
NFPA 20	-	STATIONARY PUMPS, 2016 EDITION
NFPA 24	-	PRIVATE FIRE MAINS, 2016 EDITION
NFPA 25	-	WATER BASED FIRE PROTECTION SYSTEMS, 2013 EDITION
NFPA 72	-	NATIONAL FIRE ALARM CODE, 2016 EDITION
NFPA 80	-	FIRE DOORS AND OTHER OPENING PROTECTIVES, 2016 EDITION
NFPA 92	-	STANDARD FOR SMOKE CONTROL SYSTEMS, 2015 EDITION
NFPA 253	-	CRITICAL RADIANT FLUX OF FLOOR COVERINGS, 2015 EDITION
NFPA 2001	-	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2015 EDITION
ICC 300	-	ICC STANDARDS FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS, 2017 EDITION
UL 300	-	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL RESTAURANT COOKING AREAS, 2005 EDITION W/ REVISIONS THRU 2014
UL 464	-	AUDIBLE SIGNAL APPLIANCES, 2003 EDITION
UL 521	-	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION W/ REVISIONS THRU JULY 30, 2005

NOTE: ALL NFPA STANDARDS AS LISTED ARE TO CONFORM TO THE EDITION AS LISTED WITH THE LATEST CALIFORNIA AMENDMENTS. REFERENCE THE 2019 CBC, TITLE 24, PART 2 - CHAPTER 35 FOR ADDITIONAL APPLICABLE NFPA, UL. STANDARDS AND ANY CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

PROJECT TEAM

PROJECT ADDRESS
AYALA HIGH SCHOOL
14255 PEYTON DR .
CHINO HILLS, CA 91709
PHONE: 909-627-3584

OWNER
CHINO VALLEY UNIFIED SCHOOL DISTRICT
5130 RIVERSIDE DR.
CHINO, CA 91710
PHONE: 909-628-1201

ELECTRICAL ENGINEER
YOWANTO ENGINEERING, INC.
2705 N TOWNE AVE.
POMONA, CA, 91767
PHONE: 909-626-6291

ARCHITECT
PBK
8163 ROCHESTER AVE., SUITE 100
RANCHO CUCAMONGA, CA 91730
PHONE: 909-987-0909 FAX: 909-980-9980

DRAWING REF NO	DESCRIPTION	DRAWING REF NO	DESCRIPTION
	ARCHITECTURAL		
A0.1	GENERAL NOTES / PROJECT DIRECTORY		
A1.1	SITE PLAN		
A1.2	ENLARGED SITE PLAN & ELEVATIONS		
	ELECTRICAL		
E-1	ELECTRICAL GENERAL NOTES, SYMBOLS & DETAILS		
E-2	POOL BUILDING ELECTRICAL PLAN		
	AQUATIC SCOREBOARD		
SB.1	SCOREBOARD DETAILS		
SB.2	NEW TIMING SYSTEM NOTES / EQUIPMENT		
	TOTAL: 7 PAGES		

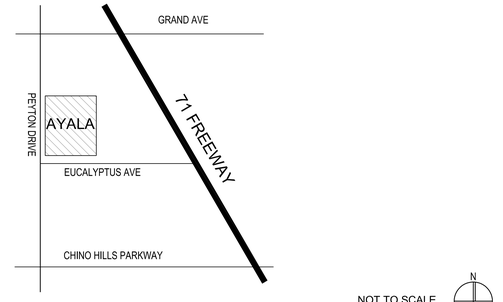
1

SCOPE OF WORK DESCRIPTION

THE SCOPE OF THE WORK AS STATED BELOW DOES NOT CONSTITUTE A DETAILED AND FULL EXPLANATION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

REPLACEMENT OF AQUATIC SCOREBOARD.

VICINITY MAP



NOT TO SCALE N

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121522 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 08/04/2023

PBK

ARCHITECT PBK Architects, Inc.
RANCHO CUCAMONGA PBK.com
8163 Rochester Avenue, Suite 100
Rancho Cucamonga
California 91730
P 909-987-0909

AYALA HIGH SCHOOL
SCOREBOARDS REPLACEMENT

PROJECT ADDRESS:
14255 PEYTON DRIVE
CHINO HILLS, CA 91709

DSA APPL NO.: 04-121522 DSA FILE NO.: 36-H3

Consultant

Architect

LICENSED ARCHITECT
ROBERT LAVEY
C-28020
07/31/25
STATE OF CALIFORNIA

CLIENT
Chino Valley Unified School District

DATE	PROJECT NUMBER
5/19/2023	W2105800AR

REVISIONS

No.	Description	Date
1	ADDENDUM #1	2023 / 5 / 19

100% CD SUBMITTAL

GENERAL NOTES & PROJECT DIRECTORY

A0.1

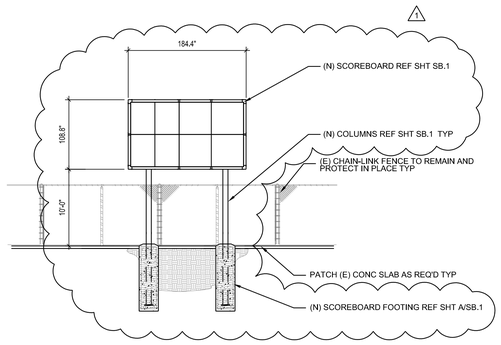
PBK

ARCHITECT PBK Architects, Inc.
RANCHO CUCAMONGA PBK.com
8163 Rochester Avenue, Suite 100
Rancho Cucamonga
California 91730
P 909-987-0909

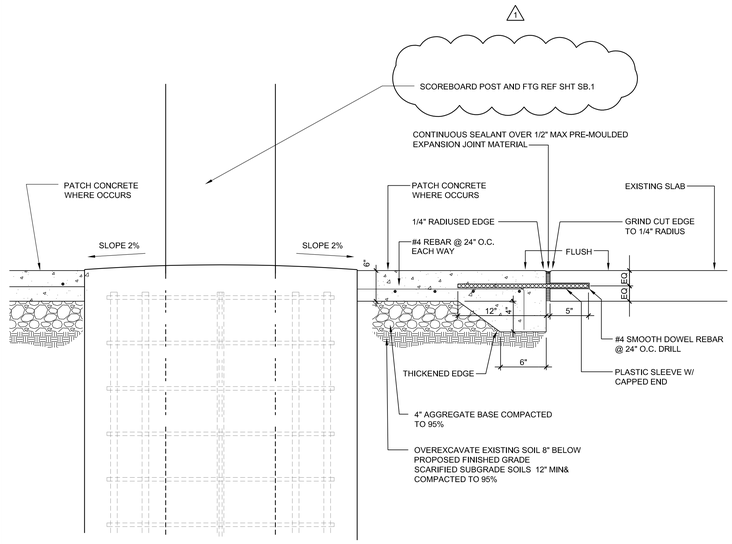
AYALA HIGH SCHOOL
SCOREBOARDS REPLACEMENT

PROJECT ADDRESS:
14255 PEYTON DRIVE
CHINO HILLS, CA 91709

DSA APPL NO.: 04-121522 DSA FILE NO.: 36-H3



18 ELEVATION 1/8" =1'-0"



14 CONCRETE PAVING 1 1/2"=1'-0"

FILE/CSI NUMBER: REVISION DATE: JOB NUMBER:

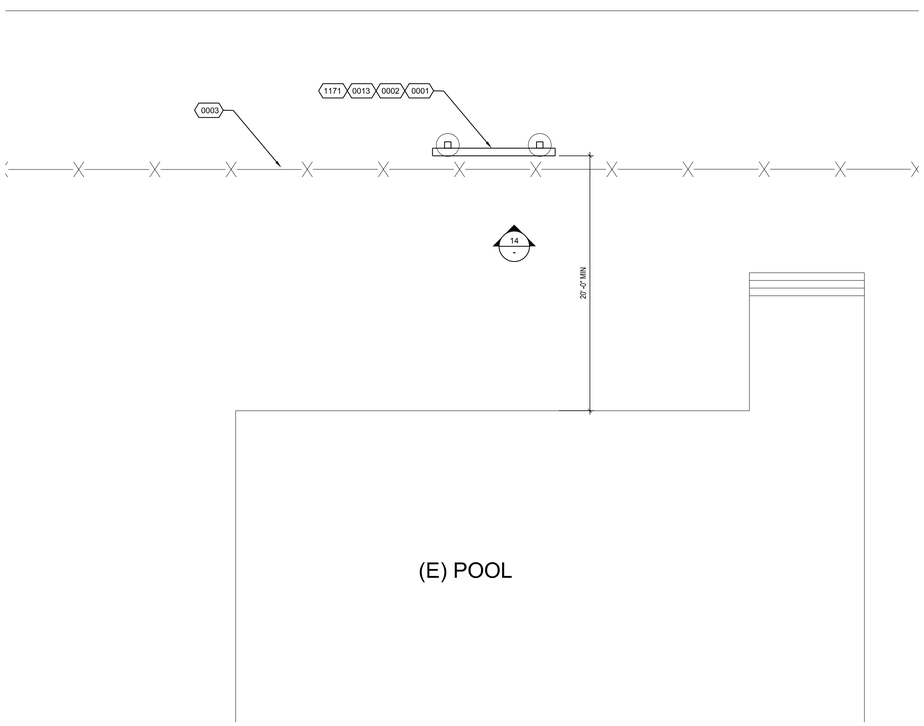
PAINT ALL EXPOSED CONDUITS TO MATCH ADJACENT WALL COLOR. PREPARE SURFACE AND PAINT ALL EXPOSED STEEL IN THE SCOREBOARD ASSEMBLY / STRUCTURE. PAINT SHALL BE DUNN-EDWARDS OR EQUAL AS FOLLOWS:

1. STEEL - GALVANIZED (SEMI GLOSS URETHANE ALKYD ENAMEL)
   1ST COAT: SUPREME CHEMICAL METAL CLEAN AND ETCH SCME-01
   2ND COAT: ULGM00 ULTRASHIELD GALVANIZED METAL PRIMER
   3RD COAT: ASHL50 ARISTOSHIELD
   4TH COAT: ASHL50 ARISTOSHIELD
2. STEEL - PRIMED OR UNPRIMED (SEMI GLOSS URETHANE ALKYD ENAMEL)
   1ST COAT: BRPR00 BLOC-RUST PREMIUM
   2ND COAT: ASHL50 ARISTOSHIELD
   3RD COAT: ASHL50 ARISTOSHIELD

1

CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION, EXCAVATION AND IMPROVEMENT. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN TO BE PROTECTED HEREON AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN HEREON.

GENERAL NOTES



24 ENLARGED SITE PLAN 1/8" =1'-0"

0001 DEMO (E) SCOREBOARD AND STEEL COLUMNS INCLUDING CONCRETE FOOTINGS PATCH (E) PAVMT AS REQ'D

0002 DISCONNECT (E) ELECTRICAL POWER & DATA REROUTE AS NECESSARY FOR NEW SCOREBOARD REF ELEC DWGS

0003 (E) CHAIN-LINK FENCE TO REMAIN AND PROTECT IN PLACE

0013 (E) CONC PVMT PATCH AS REQ'D REF 6/-

1171 (N) AQUATIC SCOREBOARD REF SHT SB.1

1 REFERENCE NOTES

Consultant

Architect

LICENSED ARCHITECT
ROBERT LAVEY
EXPIRES 08/31/23
STATE OF CALIFORNIA

CLIENT
Chino Valley Unified School District

DATE	PROJECT NUMBER
5/19/2023	W2105800AR

REVISIONS

No.	Description	Date
1	ADDENDUM #1	2023 / 5 / 19

100% CD SUBMITTAL

ENLARGED SITE PLAN & ELEVATIONS

A1.2

GENERAL NOTES

1. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS AND SERVICES REQUIRED FOR THIS COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEMS AS INDICATED AND SPECIFIED. ALL WORK SHALL BE NEW UNLESS NOTED OR SHOWN OTHERWISE.

2. ALL ELECTRICAL EQUIPMENT MATERIAL AND DETAILS OF INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST REVISIONS OF THE NATIONAL ELECTRICAL CODE OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, OF THE STATE OF CALIFORNIA TITLE 24, BASIC ELECTRICAL REGULATIONS OF THE STATE FIRE MARSHALL AND OTHER APPLICABLE CODES. NOTHING IN THE PLANS OR THESE SPECIFICATIONS SHALL BE CONSTRUED AS PERMITTING WORK NOT CONFORMING TO THE MOST STRINGENT OF THE APPLICABLE CODES.

3. THE BIDDER SHALL VISIT THE SITE AND MAKE A SURVEY OF EXISTING CONDITIONS WHICH MAY AFFECT OR BE AFFECTED BY THE WORK UNDER THIS SECTION. REFERENCE MADE IN THE SPECIFICATIONS OR ON THE DRAWINGS TO EXISTING WORK OR CORRECTNESS OF WAYS AND MEANS OF PERFORMING SHALL BE SUBJECT TO VERIFICATIONS BY THE CONTRACTOR IN HIS SURVEY AND ON THE PROGRESS OF THE WORK.

4. WIRE SHALL BE COPPER TYPE THWN-2 OR XHHW-2. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS NOTED OTHERWISE. WIRES SMALLER THAN #6 AWG SHALL BE SOLID AND #6 AWG AND LARGE SHALL BE STRANDED.

5. SPLICES IN #10 AWG AND SMALLER CONDUCTORS SHALL BE MADE WITH CONICAL SHAPED SPRING STEEL CONNECTORS PLATED FOR CORROSION PROTECTION. CONNECTORS MAY HAVE AN INSULATING, SEMI-RIGID OUTER SHELL. TWIST ON CONNECTORS OF PHENOLIC COMPOUND OR CRIMP-TYPE CONNECTIONS SHALL NOT BE USED.

6. WHEREVER CONDUCTORS ARE SPLICED OR TERMINATED IN A JUNCTION OR PULLBOX THEY SHALL BE MARKED WITH THEIR CIRCUIT NUMBER USING "BRADY" ADHESIVE MARKERS.

7. ALL EXPOSED EXTERIOR CONDUIT SHALL BE GALVANIZED RIGID CONDUIT (GRC). ALL UNDERGROUND COUIT SHALL BE PVC SCH 40.

8. FLEXIBLE STEEL CONDUIT SHALL BE GALVANIZED WITH FLEXIBLE OR CADMIUM-PLATED CONNECTORS OF THE TWIST-IN TYPE. FLEXIBLE CONDUIT SHALL ONLY BE USED AS APPROVED BY THE ENGINEER.

9. ALL EMPTY CONDUITS SHALL HAVE A 1/8" DIAMETER NYLON PULL CORD UNLESS OTHERWISE SPECIFIED.

10. ALL CONDUITS RUN EXPOSED SHALL BE INSTALLED PARALLEL OR AT RIGHT ANGLES TO BUILDING CONSTRUCTION OR METAL STRUCTURE.

11. BOXES SHALL BE GALVANIZED OR SHERARDIZED ONE PIECE PRESSED STEEL KNOCKOUT TYPE. MINIMUM SIZE BOX SHALL BE 4" BY 1 1/2" DEEP UNLESS OTHERWISE SPECIFIED OR INDICATED. BOXES SHALL HAVE PLASTER RINGS AS REQUIRED.

12. WIRING INSTALLED CONCEALED ABOVE GROUND IN DRY PLACES NOT IN CONCRETE WHERE NOT SUBJECT TO MECHANICAL DAMAGE SHALL BE IN EMT OR RIGID STEEL CONDUIT.

13. IN PANELS, PULLBOXES, OUTLET BOXES, GUTTERS, ETC., CONDUCTOR SHALL BE TIED WITH PLASTIC TIES, NEATLY FANNED OUT AND TAGGED WITH ADHESIVE MARKERS WHICH ARE CLEARLY MARKED WITH CIRCUIT NUMBERS, ALL IN AN APPROVED WORKMANLIKE MANNER.

14. ALL ELECTRICAL EQUIPMENT SHALL BE EMBRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE OF 20% OF ITS OPERATING WEIGHT ACTING IN ANY DIRECTION. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ELECTRICAL ENGINEER.

15. FINAL INSPECTION AND ACCEPTANCE: AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, THE PROJECT INSPECTOR WILL INSPECT THE WORK. CONTRACTOR SHALL PROVIDE COMPETENT PERSONAL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM, TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.

16. THE CONTRACTOR SHALL FURNISH ONE (1) YEAR WRITTEN GUARANTEE ON MATERIALS AND WORKMANSHIP, UNLESS MORE RESTRICTIVE WARRANTIES ARE NOTED IN SPECIFIED SECTIONS, FROM DATE OF ACCEPTANCE.

17. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF RECORD DRAWINGS AND AFTER COMPLETION OF HIS WORK TURN THEM OVER TO THE ENGINEER/OWNER.

18. ALL ELECTRICAL EQUIPMENTS SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.

19. ALL UNDERGROUND CONDUITS SHALL BE ENCASED IN SLURRY CONCRETE.

20. EXACT LOCATION OF ALL EQUIPMENT SHALL BE AS INDICATED ON THE ARCHITECTURAL PLANS.

21. UNLESS OTHERWISE NOTED, MOUNTING HEIGHTS INDICATED ON ELECTRICAL OUTLETS ARE FROM FINISHED FLOOR TO CENTER OF OUTLETS.

22. NO CONDUIT SHALL BE RUN HORIZONTALLY IN CONCRETE FLOOR SLABS.

23. ALL FINAL CONNECTIONS TO OWNER-FURNISHED EQUIPMENT SHALL BE MADE BY THIS CONTRACTOR.

MEP EQUIPMENT ANCHOARAGE NOTE

ALL MECHANICAL, PLUMBINNG, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWNG COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30:

A. ALL PERMANENT EQUIPMENT AND COMPONENTS
B. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
C. TEMPORARY, MOVABLE EQUIPMENT THAT IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIREDTO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRUBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.25 AND 1617A.1.26..

THE METHOD OF SHOWNG BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (e.g., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☑ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#) #_____.

9. PROOF LOAD TEST FOR EXPANSION, TYPE ANCHOR BOLTS (BOLTS MUST HAVE I.C.B.O. APPROVAL).

ALL CONCRETE ANCHOR BOLT OF THE EXPANSION TYPE (LOADED IN EITHER PULLOUT OR SHEAR) SHALL HAVE 50 PERCENT OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT) PROOF TESTED IN TENSION TO TWCE THE ALLOWABLE TENSION LOAD. IF THERE ARE ANY FAILURES, THE IMMEDIATELY ADJACENT BOLTS MUST THEN ALSO BE TESTED.

TYPE OF MATERIALS		TYPE OF TEST	BOLT DIAMETER 3/8"	1/2"	5/8"	3/4"
HARD ROCK CONCRETE	DIRECT TORQUE	PULL-TENSION,LBS. WRENCH-TORQUE,FT.LBS.	1300 25	2000 50	2900 110	4300 150
LT.WT. CONCRETE	DIRECT TORQUE	PULL-TENSION,LBS. WRENCH-TORQUE,FT.LBS.	970	1400 20	1950 35	2590 75

10. ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR OTHERS AND THOSE SHOWN ON THE RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE OWNER BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PERSUANT THERETO AGREES TO ASSUME LIABILITY AND TO HOLD THE ENGINEER HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE ENGINEER; NOT INDICATED ON THE PUBLIC RECORDS EXAMINED; LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.

11. ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH EXISTING FINISH.

12. THE CONTRACTOR SHALL NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE FIELD VERIFIED.

13. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER THE SHUT-DOWN SCHEDULE AND TIME REQUIRED PRIOR TO DEMOLITION AND INSTALLATION OF NEW CONDUIT, WIRE AND PANELBOARDS FROM THE EXISTING SYSTEM. THE SHUT-DOWN SHALL BE SCHEDULED IN SUCH A MANNER TO MINIMIZE INTERRUPTION OF REGULAR ACTIVITIES. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL PREMIUM TIME REQUIRED FOR THE NEW CONNECTIONS. (NO EXCEPTION WILL BE TAKEN DURING NORMAL BUSINESS HOURS).

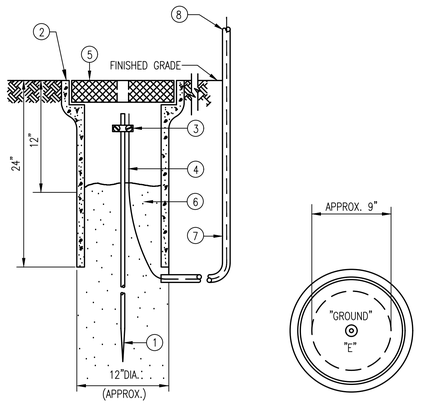
14. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR ALL TRENCHING, BACKFILLING SAW CUTTING AND REFINISHING OF SURFACES. FINISHES TO MATCH EXISTING. (NEW EXPOSED CONDUIT TO BE PAINTED TO MATCH EXISTING FINISH).

APPLICABLE CODES

1. 2022 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2. 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2022 CALIFORNIA AMENDMENTS)
3. 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
4. 2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2021 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
5. 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5 TITLE 24 C.C.R. (2021 UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
6. 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
7. 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
8. 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
9. 2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
10. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
———	CONDUIT RUN, CONCEALED IN CEILING, WALLS OR BELOW ROOF. CONDUIT MAY BE CONCEALED BELOW SLAB AS PERMITTED BY ENGINEER.
#10	CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 WIRES CONTAINED THEREIN. GROUND WIRE IS REQUIRED BUT NO INDICATED. TWO #12 ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12.
B-1,3,5-7	CONDUIT HOME RUN TO PANELBOARD. LETTER AND NUMERALS INDICATES ELECTRICAL PANEL AND CIRCUIT NUMBER. CIRCUITS 1,3,5 WITH SHARED NEUTRAL AND CIRCUIT 7 WITH DEDICATED NEUTRAL.
#10	CONDUIT HOMERUM FOR ISOLATED GROUND RECEPTACLE (2#12 & 1#10 GROUND).
C.O.	CONDUIT ONLY, WITH PULL ROPE.
	DUPLEX GROUNDING TYPE RECEPTACLE WALL MOUNTED (+18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED).
	DOUBLE DUPLEX GROUNDING TYPE RECEPTACLE, WALL MOUNTED (+18" ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED).
GFI	"GFI" ADJACENT TO SYMBOL INDICATES GROUND FAULT INTERRUPTING TYPE RECEPTACLE
	JUNCTION BOX
	BRANCH CIRCUIT PANEL, MOUNTING AS SHOWN ON SCHEDULES.
	DISCONNECT SWITCH
Sm	MOTOR RATED SWITCH
	PANEL DESIGNATION.
CTB	COMMUNICATIONS TERMINAL BOARD.
MDF	MAIN DISTRIBUTION FRAME.
IDF	INTERMEDIATE DISTRIBUTION FRAME
(E)	EXISTING EQUIPMENT TO REMAIN
(R)	REMOVE EQUIPMENT
(RR)	REMOVE EQUIPMENT AND RELOCATE TO NEW LOCATION
(ER)	NEW LOCATION OF EXISTING RELOCATED EQUIPMENT. EXTEND CONDUIT AND RE-CONNECT TO EXISTING CIRCUIT OR SYSTEM FOR COMPLETE AND OPERABLE SYSTEM.
(N)	NEW EQUIPMENT AND CONDUIT



SPECIAL NOTES:

1. #4 REBAR OR 1/2" ø X 10'-0" COPPER CLAD DRIVEN GROUND ROD
2. PRECAST GROUND ELECTRODE ENCLOSURE
3. GROUND CONNECTOR
4. #6(MIN.)BARE COPER GROUNDING CONDUCTOR
5. STEEL TRAFFIC TYPE COVER WITH HOOK HOLE AND ETCHED WORDS "GROUND"
6. SAND BACKFILL 1/2 CUBIC YARD MINIMUM
7. SCHEDULE 40 PVC CONDUIT WITH BARE COPPER GROUNDING CABLE
8. CONNECT TO METAL PART

GROUND WELL | NTS | 1

EXISTING

VOLTAGE 120/240 1ø, 3W
BUS AMPS 100
MAIN BREAKER ☒ 100 A.F. 40 A.T.
LUGS ONLY ☐
PANEL HL1
LOCATION STORAGE
TOP FEED ☒ SURFACE MTG.☒
BOTTOM FEED ☐ FLUSH MTG. ☐
REMARKS MIN. 14KAIC

	DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	LOAD CLASS	OUTLETS L	OUTLETS R	OUTLETS M	CKT B	CKT #	BUS A	BUS B	CKT #	CKT B	OUTLETS L	OUTLETS R	OUTLETS M	LOAD CLASS	VOLT-AMPS A	VOLT-AMPS B	DESCRIPTION
(N)	SCOREBOARD	1000					1	20/1	1			2								
	SCOREBOARD		1000				1	20/1	3			4								
	SCOREBOARD	1000					1	20/1	5			6								
	SCOREBOARD		1000				1	20/1	7			8								
	SPARE								9			10								
	SPARE								11			12								
									13			14								
									15			16								
									17			18								
									19			20								
									21			22								
									23			24								
									25			26								
									27			28								
									29			30								
									31			32								
									33			34								
									35			36								
									37			38								
									39			40								
									41			42								
	SUB TOTALS	2000	2000																	SUB TOTALS

CONN. PHASE TOTAL: A 2000 B 2000 ; CONN. PANEL TOTAL 4000 VA; MAX. CONN. LINE CURRENT 16.7 AMPS
(KVA) PANEL TOTAL 4000 + L.C.L. (.25) = 4 KVA; BALANCED CURRENT 16.7 AMPS; DESIGN LOAD KVA

1

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121522 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 08/04/2023

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DSA APPL NO.: ##-##### DSA FILE NO.: ##-###

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C-28020
11/30/2024
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CLIENT
Chino Valley Unified School District

DATE	PROJECT NUMBER
12/16/2022	W2105800AR

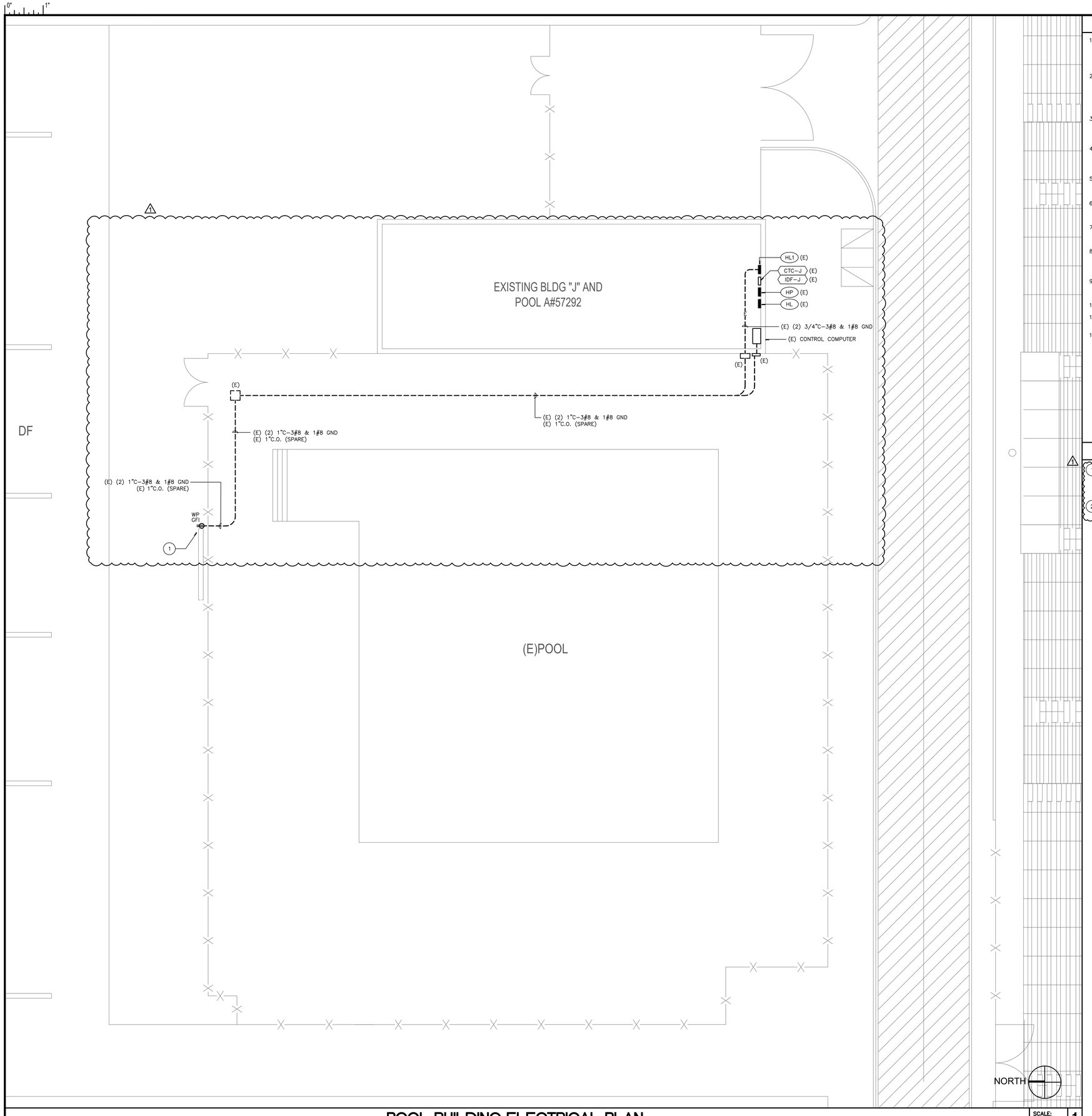
REVISIONS

No.	Description	Date
1	ADDENDUM #1	05/30/23

100% CD SUBMITTAL

ELECTRICAL GENERAL NOTES, SYMBOLS & DETAILS

E-1



POOL BUILDING ELECTRICAL PLAN

SCALE: 1/8"=1'-0" 1

NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE AND MAKE SURVEY OF EXISTING CONDITIONS WHICH MAY AFFECT OR BE AFFECTED BY THE WORK UNDER THIS SECTION. REFERENCE MADE IN THESE SPECIFICATIONS OR ON THE DRAWINGS TO EXISTING WORK OR CORRECTNESS OF WAYS AND MEANS OF PERFORMING SHALL BE SUBJECT TO VERIFICATIONS BY THE CONTRACTOR IN HIS SURVEY AND ON THE PROGRESS OF THE WORK.
2. THE CONTRACTOR SHALL VISIT THE JOB SITE TO ACQUAINT HIMSELF WITH ACTUAL CONDITIONS OF EXISTING AND TO BECOME FAMILIAR WITH THE TOTAL SCOPE OF WORK REQUIRED. SUBMISSION OF BID WILL BE INDICATION THAT CONTRACTOR HAS MADE VISUAL INSPECTION OF THE SITE, HAS REVIEWED ALL PLANS AND AS-BUILT DRAWINGS, OUTLINE REQUIREMENTS AND HAS INCLUDED IN THE PRICE ALL LABOR, MATERIALS AND EQUIPMENT TO COMPLETE THE ELECTRICAL WORK.
3. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DO ALL CORING, CUTTING, PATCHING AND REFINISHING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY FOR HIM TO PENETRATE FOR HIS WORK. ALL OPENINGS MADE SHALL BE SEALED TO MEET THE RATED INTEGRITY OF THE PARTICULAR WALL, FLOOR OR CEILING.
4. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF EXISTING SYSTEM, EQUIPMENT, ETC. REMAINING IN OPERATION. WHERE AN EXISTING OUTLET DEVICE IS BEING FED BY AN ABANDON OUTLET, MAINTAINING CONTINUITY SHALL CONSIST OF RE-ROUTING OF CONDUIT, WIRE, ETC. AS REQUIRED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND VERIFYING, THE EXACT LOCATION OF THE "POWER AND "SIGNAL" PULLBOXES FOR THE PROPER INTERFACE WITH THE UNDERGROUND CONDUIT STUB-UPS.
6. WHERE EXISTING CONDUIT STUB-OUTS ARE TO BE INTERCEPTED, THE CONTRACTOR SHALL VERIFY THE ACTUAL ROUTING OF THE EXISTING CONDUITS AND DETERMINE THE ACTUAL POINT OF INTERCEPTION THE FIELD.
7. LOCATION OF UNDERGROUND PULLBOXES AND CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL PULLBOX LOCATION AND ROUTING OF UNDERGROUND CONDUITS SHALL BE VERIFIED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES.
8. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN REQUIRED CLEARANCES BETWEEN UNDERGROUND ELECTRICAL CONDUITS AND FOOTINGS. CONDUIT STUB-UPS SHALL NOT BE INSTALLED IN FOOTINGS, EXACT METHOD FOR STUBBING-UP CONDUITS AT FOOTINGS LOCATIONS SHALL COORDINATED IN THE FIELD WITH THE ARCHITECT.
9. PROTECT EXISTING CONCRETE, WALKWAY, ELECTRICAL FOR TRENCHING TO BE WITHIN LANDSCAPE AREA UNLESS WHERE NECESSARY. PATCH CONCRETE TO MATCH SURROUNDING WHERE NECESSARY.
10. VERIFY EXACT LOCATION OF NEW EQUIPMENTS MOUNTING IN FIELD.
11. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH SCOREBOARD MANUFACTURER FOR REQUIREMENTS FOR COMPLETE AND OPERABLE SYSTEM.
12. REFER TO SCOREBOARD DRAWINGS FOR MOUNTING AND INSTALLATION DETAIL. BOND ALL METAL PARTS.

REFERENCE NOTES

1. DISCONNECT CONNECTION TO EXISTING SCOREBOARD AND INSTALL (4) DEDICATED WEATHER RESISTANT GFI RECEPTACLES IN WEATHERPROOF HOUSING FOR SCOREBOARD POWER AND CONDUIT STUB OUT FOR CONTROL TO NEW SCOREBOARD. INSTALL 3/4"C-1#8 GND AND 5/8"x10 FT. GROUND ROD AND BOND METAL POST. EXTEND CONDUIT TO SCOREBOARD POST AS REQUIRED. VERIFY EXACT LOCATION IN FIELD.
2. INSTALL NEW CONTROL CABLE IN EXISTING CONDUIT PER MANUFACTURER REQUIREMENTS. VERIFY EXACT ROUTING AND OTHER REQUIREMENTS WITH SCOREBOARD MANUFACTURER.

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AYALA HIGH SCHOOL
SCOREBOARDS REPLACEMENT

PROJECT ADDRESS:
14255 PEYTON DRIVE
CHINO HILLS, CA 91709

DSA APPL NO.: ##-###### DSA FILE NO.: ##-###

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Architect

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ROBERT LAVEY
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06/30/2024
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CLIENT
Chino Valley Unified School District

DATE	PROJECT NUMBER
12/16/2022	W2105800AR

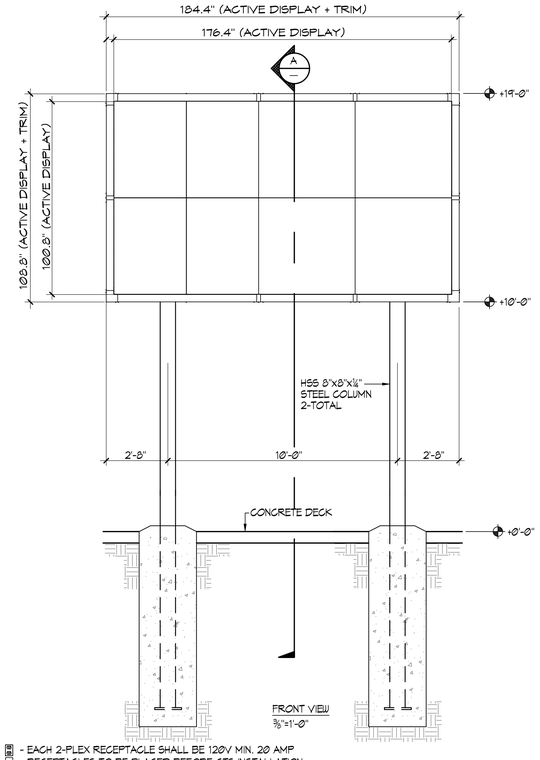
REVISIONS

No.	Description	Date
1	ADDENDUM #1	05/30/23

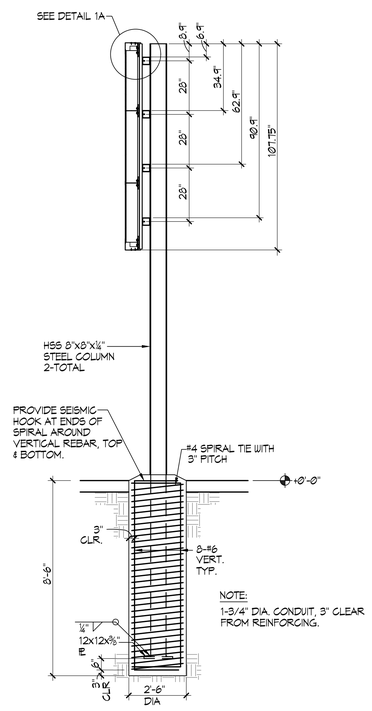
100% CD SUBMITTAL

POOL BUILDING
ELECTRICAL PLAN

E-2

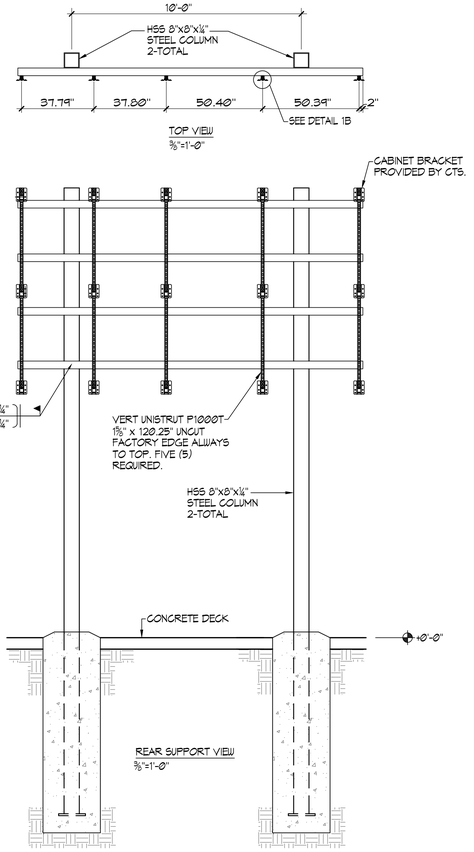


FRONT VIEW
⅜"=1'-0"



A SECTION
⅜"=1'-0"

MATERIAL PROPERTIES DATA TABLE	
SHAPED HOLLOW STRUCTURAL SECTIONS	ASTM A500, GRADE C (Fy = 50 ksi)
STEEL PLATE	ASTM A36 (Fy = 36 ksi)
REINFORCING BAR	ASTM A615, GRADE 60 (Fy = 60 ksi)
CONCRETE	4,000 PSI @ 28 DAYS, WATER/CEMENT RATIO = 0.40-0.50
SOIL	
PRESUMPTIVE LOAD BEARING VALUES	
SOIL TYPE: SC/ML	
LATERAL BEARING PRESSURE: 100 PCF	
VERTICAL FOUNDATION PRESSURE: 1500 PSF	



REAR SUPPORT VIEW
⅜"=1'-0"

- E - EACH 2-PLEX RECEPTACLE SHALL BE 120V MIN. 20 AMP
- C - RECEPTACLES TO BE PLACED BEFORE CTS INSTALLATION.
- SINGLE GANG WALL BOX WITH BLANK PLATE FOR DATA CABLE. ONE PER DISPLAY.
- EACH CIRCUIT SHALL BE DEDICATED 120V, MIN. 20 AMPS. CALIFORNIA ELECTRIC CODE REQUIRES A MEANS OF DISCONNECTING SIGNS AT THE LOCATION OF THE SIGN. SCOREBOARD SHALL BE WIRED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE ART. 600-6.
- IT IS EXTREMELY IMPORTANT THAT THE CIRCUITS USED TO POWER THE SCOREBOARD NOT BE SHARED WITH OTHER DEVICES. THE SCOREBOARD IS SENSITIVE TO "NOISE" ON AC POWER LINES.
- DISPLAY SHALL BE EARTH GROUNDED. NUMBER AND LENGTHS OF RODS SHALL MEET CALIFORNIA ELECTRIC CODE SEE SHEET E1.
- DISPLAY MAXIMUM POWER CONSUMPTION: 8,600 WATTS

SPECIFICATIONS:

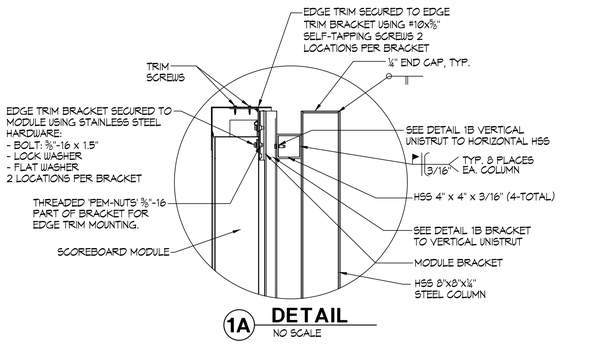
- PAINT ALL EXPOSED CONDUITS TO MATCH ADJACENT WALL COLOR. PREPARE SURFACES AND PAINT ALL EXPOSED STEEL IN THE SCOREBOARD ASSEMBLY / STRUCTURE. PAINT SHALL BE DUNN-EDWARDS OR EQUAL AS CALLED OUT ON SHEET A1.2. ALL EXPOSED FASTENERS ARE 316 STAINLESS STEEL.

MODEL NUMBER:

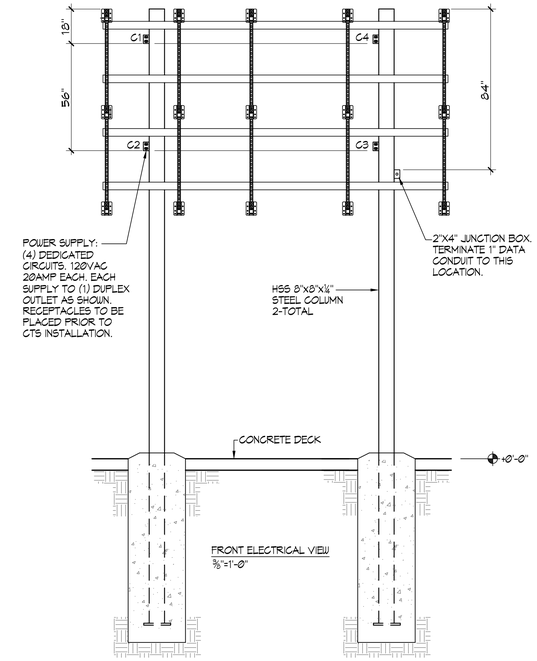
- Y5J 10mm 256H x 448W SMD, FA, OD 2PM DISPLAY
  ACTIVE AREA: 100.8"(H) x 176.4"(W)

SYSTEM WEIGHTS:

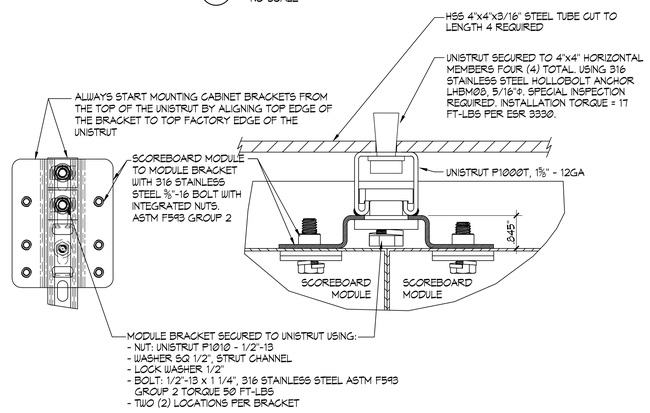
- DISPLAY - APPROXIMATELY 1,600 LBS.
- FRAME AND EDGE TRIM - APPROXIMATELY 180 LBS.
- DISPLAY MOUNTING CHANNELS SHALL BE ALIGNED USING TEMPLATE.



1A DETAIL
NO SCALE



FRONT ELECTRICAL VIEW
⅜"=1'-0"



1B DETAIL
NO SCALE

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121522 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 08/04/2023

PBK

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AYALA HIGH SCHOOL SCOREBOARDS REPLACEMENT

PROJECT ADDRESS:
14255 PEYTON DRIVE
CHINO HILLS, CA 91709

DSA APPL NO.: 04-121522 DSA FILE NO.: 36-H3

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CLIENT
Chino Valley Unified School District

DATE	PROJECT NUMBER
5/19/2023	W2105800AR

REVISIONS

No.	Description	Date
1	ADDENDUM #1	2023 / 5 / 19

100% CD SUBMITTAL

SCOREBOARD DETAILS

SB.1 1

NEW TIMING SYSTEM NOTES/EQUIPMENT

TIMING SYSTEM

QTY	MODEL	DESCRIPTION
(1) 1	GENT-TMR	INTUITIVE SOFTWARE INTERFACE WITH MODERN WINDOWS USER INTERFACE AND TOUCHSCREEN FRIENDLY. FLEXIBLE USER INTERFACE OPTIONS WITH ETHERNET CONNECTIVITY TO THE TIMER. ADVANCED DIAGNOSTICS, INTELLIGENT BUS SYSTEM, ROBUST SAFEGUARDS. TIMER WILL CONTINUE TO RUN AND FINISH RACE WITHOUT USER INTERFACE. WET-PLUGGABLE TITANIUM CONNECTIONS. INTEGRATED 2.4 GHz WIRELESS TO SCOREBOARDS, FACILITY NETWORK CONNECTIVITY.
1	R-600-302	GENT LAPTOP

START SYSTEM

QTY	MODEL	DESCRIPTION
(2) 1	SS	CHAMPION SERIES START SYSTEM WITH WIRED MICROPHONE, VOLUME CONTROL ON EACH MICROPHONE INPUT, EXTERNAL CONNECTIONS FOR ADDITIONAL STROBE LIGHTS, LED BATTERY INDICATION LIGHT, AC/DC POWER CAPABILITIES AND AN EXTERNAL 360° STROBE. TRIPOD OR TABLE TOP OPTIONS.
1	START-FPM-2	FLAG POLE MOUNTING KIT FOR STARTER
10	SP-6/45	6 WATT INDIVIDUAL BLOCK SPEAKER

TOUCHPADS

QTY	MODEL	DESCRIPTION
(3) 8	TP-90G	AQUAGRIP GUTTERHUNG TOUCHPADS (90" x 22") US PATENT 5,702,799
1	CAD-TP96	TOUCHPAD CADDY FOR GUTTERHUNG TOUCHPADS. HOLDS UP TO TEN TOUCHPADS. SOME ASSEMBLY REQUIRED.
8	4000-0040	SPECIAL SIZE TOUCHPAD BRACKETS

GENT TOUCHPAD SYSTEM

QTY	MODEL	DESCRIPTION
1	TP-GENT-10	TEN-LANE TOUCHPAD SYSTEM FOR THE GEN 7 TIMING SYSTEM (SERIAL) INCLUDES AN TEN-LANE CABLE HARNESS, ONE PUSHBUTTON PER LANE+ ONE SPARE, VACUUM PUMP AND TOUCHPAD METER.

GENT CABLE

QTY	MODEL	DESCRIPTION
1	R-015-107-8	SCOREBOARD CABLE, 8 METER
1	R-015-115-8	TIMER CABLE, 8 METER
1	R-015-106-8	STARTER CABLE, 8 METER
1	R-015-115-15	TIMER CABLE, 15 METER

GENT IN DECK

QTY	MODEL	DESCRIPTION
[D] 8	TDPI-D	TITANIUM DOMED DECK PLATE-INTELLIGENT TITANIUM DECK PLATES REQUIRE A 4" SQUARE OR 4.125" DIAMETER CIRCULAR OPENING AT A MINIMUM. WRITTEN VERIFICATION AND SIGN OFF REQUIRED FROM CUSTOMER. NOTE: INCLUDES 5 YEAR WARRANTY. CTS IS THE ONLY MANUFACTURER OF TITANIUM DECK PLATE.
[2] 1	TDPI-S2	START DECK NODE
[5] 1	TDPI-SC5	SCOREBOARD DECK NODE
[F] 1	R-1004-0549	GENT WALL PLATE (12X12)
1	TDPI-K1	KIT-SCOREBOARD BUS HEAD& TAIL NODE INSTALLATION
1	TDPI-K1	KIT-TIMING BUS HEAD & TAIL NODE INSTALLATION
1	WPI-F4	WP-YDS FIBER & LEGACY CONNECT

GENT CABLE

QTY	MODEL	DESCRIPTION
1200'	R-015-7S7	TIMING BUS CABLE- 7 CONDUCTOR
1200'	R-015-726	SCOREBOARD BUS CABLE- 4 CONDUCTOR

PACE CLOCK

QTY	MODEL	DESCRIPTION
1	PC-PRO-R	PACE CLOCK - PRO/WATER POLO SHOT CLOCK
2	DC-1500 1 PC-PRO AND 2 DC 1500 DECK CLOCKS PER OWNER APPROVAL.	SPECIFICATIONS: • 4 DIGIT PACE CLOCK • 10" RED DIGITS - VIEWABLE UP TO 400 FEET • HIGH INTENSITY LED - INDOOR/OUTDOOR • "SPLASH-PROOF" PROTECTIVE LENS • INTERNAL RECHARGEABLE BATTERY • INTERNAL HORN • FEET AND HANDLE FUNCTIONS: • SIMPLE PACE CLOCK • CUMULATIVE SPLIT DISPLAY • LAP SPLIT DISPLAY • LAP COUNTER • LAP SPLIT DISPLAY WITH TURN SPEED • RELAY EXCHANGES DISPLAY • START REACTION DISPLAY • HAND TURN SPEED • BREAK OUT SPEED DISPLAY • BREAK OUT SPEED DISPLAY WITH START REACTION • TIME DISPLAY FOR REPETITIVE SETS • SINGLE LANE TIMER • MID-RACE TIMING DISPLAY • WATERPOLO SHOT CLOCK • WATERPOLO GAME CLOCK NOTE: MOST FUNCTIONS REQUIRE ADDITIONAL INPUT DEVICES, I.e. TOUCHPAD, RELAY JUDGING PLATFORM, START SYSTEM, PUSHBUTTON

CONTROLLER

QTY	MODEL	DESCRIPTION
1	WTTC-2	WIRELESS TABLE TOP CONTROLLER
1	CASE-WTTC	CASE FOR THE WIRELESS TABLE TOP CONTROLLER
1	WHC-1	WIRELESS HANDHELD CONTROLLER

ADAPTER

QTY	MODEL	DESCRIPTION
1	WA-3	WIRELESS ADAPTER, 2.4 GHz

RELAY JUDGING PLATFORM

QTY	MODEL	DESCRIPTION
9	RJPL-24x32	CTS RELAY JUDGING PLATFORM 24"X32" W/ BUILT-IN LED LIGHT FOR START
1	CAD-RJPL-2	CADDY- 24" WIDTH RELAY JUDGING PLATFORMS (HOLDS 10)

FULL COLOR VIDEO DISPLAY

QTY	MODEL	DESCRIPTION
(4) 1	FUTURE SCOREBOARD	PROVIDE LED MATRIX DISPLAY SCOREBOARD INCLUDING ALL POWER REQUIREMENTS, BONDING AND STRUCTURAL SUPPORTS. THE SCOREBOARD SHALL HAVE FULL COLOR AND VIDEO CAPABILITIES. Y5J 10mm 256H x 448W SMD, FA, QD 2FM DISPLAY ACTIVE AREA: 100.8"(H) x 176.4"(W) (5) PROVIDE FOUR (4) DEDICATED 20 AMP CIRCUIT TO BE TERMINATED INTO SCOREBOARD LOAD CENTER (6) MASTER ON/OFF SCOREBOARD SWITCH WITH PILOT LIGHT W/ LOCKABLE ENCLOSURE. (7) SCOREBOARD DATA CONNECTION BOX CONNECT TO TIMING/WALL BOX LOCATION W/ 1" PVC CONDUIT.
1	ID PANEL	NON-ILLUMINATED FACILITY IDENTIFICATION PANEL WITH ARTWORK.

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121522 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 08/04/2023

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AYALA HIGH SCHOOL
SCOREBOARDS REPLACEMENT

PROJECT ADDRESS:
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DSA APPL NO.: 04-121522 DSA FILE NO.: 36-H3

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Chino Valley Unified School District

DATE	PROJECT NUMBER
5/19/2023	W2105800AR

REVISIONS

No.	Description	Date
1	ADDENDUM #1	2023 / 5 / 19

100% CD SUBMITTAL

NEW TIMING SYSTEM NOTES / EQUIPMENT

SB.2 1

AQUATIC SCOREBOARDS REPLACEMENT - AYALA HIGH SCHOOL
CHINO VALLEY UNIFIED SCHOOL DISTRICT
14255 PEYTON DRIVE, CHINO HILLS, CA 91709

GENERAL NOTES

1. THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

2. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.

3. THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF WLC ARCHITECTS, INC., AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF WLC ARCHITECTS, INC.

4. THE WORK SHOWN ON THESE DRAWINGS AS EXISTING CONDITIONS WAS PREPARED FROM INFORMATION FURNISHED BY THE OWNER. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, WLC ARCHITECTS, INC. IS NOT RESPONSIBLE FOR THE ACCURACY OR ADEQUACY OF ANY WORK SHOWN AS EXISTING NOR IS WLC ARCHITECTS, INC. RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

5. EACH BIDDER SHALL POSSESS AT THE TIME OF BID A CLASS B OR THE APPROPRIATE CLASS C CONTRACTOR'S LICENSE PURSUANT TO PUBLIC CONTRACT CODE SECTION 3300 AND BUSINESS AND PROFESSIONS CODE SECTION 7028.15. THE SUCCESSFUL BIDDER MUST MAINTAIN THE LICENSE THROUGHOUT THE DURATION OF THIS CONTRACT.

6. FIRE SAFETY DURING CONSTRUCTION

   A. GENERAL: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9, CHAPTER 5 AND CHAPTER 33.

   B. ACCESS ROADS: FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33, SECTION 3310.

   C. WATER SUPPLY: WATER MAINS AND HYDRANTS SHALL BE OPERATIONAL IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33,SECTION 3312.

   D. BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIREFIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS, OR FIRE APPLIANCES.

   E. ALTERATIONS OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33.

   F. DEMOLITION OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33.

   G. FIRE WATCH: MAINTAIN FIRE WATCH WHEN REQUIRED BY THE BUILDING OFFICIAL AND WHEN EXISTING FIRE PROTECTION SYSTEMS ARE SHUT DOWN FOR ALTERATIONS IN ACCORDANCE WITH CHAPTER 33, SECTION 3304.5. FIRE WATCH SHALL REMAIN IN EFFECT UNTIL EXISTING FIRE PROTECTION SYSTEMS ARE RETURNED TO SERVICE OR AS ALLOWED BY THE BUILDING OFFICIAL.

7. INSPECTOR OF RECORD REQUIREMENTS

   A. ONE OR MORE INSPECTORS EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS WILL BE ASSIGNED TO THE WORK. THE INSPECTOR'S DUTIES ARE SPECIFICALLY DEFINED IN SECTION 4-342 OF SAID TITLE 24, PART 1 AND IN ADDITION SHALL BE AS STIPULATED IN INTERPRETATION OF REGULATION DOCUMENT IR A-8.

   B. INSPECTOR SHALL BE CERTIFIED AS A CLASS 3 INSPECTOR THROUGH THE DIVISION OF THE STATE ARCHITECT INSPECTOR EXAMINATION PROGRAM. INSPECTOR SHALL ALSO BE SPECIFICALLY APPROVED BY THE DIVISION OF THE STATE ARCHITECT FOR THIS PROJECT AT LEAST 10 DAYS PRIOR TO THE START OF ANY WORK FOR THIS PROJECT.

8. ALL WORK SHOWN ON THESE DRAWINGS SHALL COMPLY WITH THE REQUIREMENTS OF 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

9. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY TITLE 24, CCR, PART 1, SECTION 4-338.

10. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS, AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

11. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ADDITION, ALTERATION OR RECONSTRUCTION IS IN COMPLIANCE WITH THE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT IDENTIFIED BY THE CONTRACT DOCUMENTS WHEREIN THE FINAL WORK WOULD NOT COMPLY WITH THE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ARCHITECT OF THE CONDITION IN WRITING. NECESSARY INFORMATION REQUIRED TO CORRECT THE CONDITIONS ENCOUNTERED WILL BE ISSUED BY THE ARCHITECT. A CHANGE ORDER MAY BE ISSUED TO ADJUST THE CONTRACT SUM OR TIME COMMENSURATE WITH THE AMOUNT OF ADDITIONAL WORK REQUIRED, IF ANY. A CONSTRUCTION CHANGE DOCUMENT SHALL BE APPROVED BY THE DIVISION OF THE STATE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK REQUIRED BY THE CHANGE ORDER. TITLE 24, CCR, PART 1, SECTION 4-317(c)

12. DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

DESIGN LOADS

WIND DESIGN"
1. BASIC WIND SPEED: V = 95 M.P.H.
2. RISK CATEGORY = II
3. WIND EXPOSURE = C

SEISMIC DESIGN:
RISK CATEGORY = II
Ss: 1.84
S1: 0.647
SITE CLASS = D
Sds: 1.472

PC IS BASED ON 100 PSF/FT THE LOWEST PRE-SCRIPTIVE VALUE IN CHAPTER 18

GOVERNING CODES

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1	
2019 CALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2	(2018 INTERNATIONAL BUILDING CODE (IBC) W/ CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3	(2017 NATIONAL ELECTRIC CODE (NEC) W/ CALIFORNIA AMENDMENTS)
2019 CALIFORNIA MECHANICAL CODE (CMC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 4	(2018 UNIFORM MECHANICAL CODE (UMC) W/ CALIFORNIA AMENDMENTS)
2019 CALIFORNIA PLUMBING CODE (CPC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 5	(2018 UNIFORM PLUMBING CODE (UPC) W/ CALIFORNIA AMENDMENTS)
2019 CALIFORNIA ENERGY CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6	
2019 CALIFORNIA HISTORICAL BUILDING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 8	
2019 CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9	(2018 INTERNATIONAL FIRE CODE (IFC) W/ CALIFORNIA AMENDMENTS)
2019 CALIFORNIA EXISTING BUILDING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 10	(2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC) W/ CALIFORNIA AMENDMENTS)
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 11	
2019 CALIFORNIA REFERENCED STANDARDS CODE -CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12	1990 STATE FIRE MARSHAL REGULATIONS (AS AMENDED TO DATE) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19
CALIFORNIA ELEVATOR SAFETY CODE, CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 8 (AS AMENDED TO DATE)	
2010 AMERICANS WITH DISABILITY ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN (ADAS)	

APPLICABLE NFPA , UL AND ICC STANDARDS

NFPA 13	-	AUTOMATIC SPRINKLER SYSTEMS, 2016 EDITION
NFPA 14	-	STANDPIPE SYSTEMS, 2016 EDITION
NFPA 17	-	DRY CHEMICAL EXTINGUISHING SYSTEMS, 2017 EDITION
NFPA 17A	-	WET CHEMICAL SYSTEMS, 2017 EDITION
NFPA 20	-	STATIONARY PUMPS, 2016 EDITION
NFPA 24	-	PRIVATE FIRE MAINS, 2016 EDITION
NFPA 25	-	WATER BASED FIRE PROTECTION SYSTEMS, 2013 EDITION
NFPA 72	-	NATIONAL FIRE ALARM CODE, 2016 EDITION
NFPA 80	-	FIRE DOORS AND OTHER OPENING PROTECTIVES, 2016 EDITION
NFPA 92	-	STANDARD FOR SMOKE CONTROL SYSTEMS, 2015 EDITION
NFPA 253	-	CRITICAL RADIANT FLUX OF FLOOR COVERINGS, 2015 EDITION
NFPA 2001	-	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2015 EDITION
ICC 300	-	ICC STANDARDS FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS, 2017 EDITION
UL 300	-	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL RESTAURANT COOKING AREAS, 2005 EDITION W/ REVISIONS THRU 2014
UL 464	-	AUDIBLE SIGNAL APPLIANCES, 2003 EDITION
UL 521	-	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION W/ REVISIONS THRU JULY 30, 2005

NOTE: ALL NFPA STANDARDS AS LISTED ARE TO CONFORM TO THE EDITION AS LISTED WITH THE LATEST CALIFORNIA AMENDMENTS. REFERENCE THE 2019 CBC, TITLE 24, PART 2 - CHAPTER 35 FOR ADDITIONAL APPLICABLE NFPA, UL. STANDARDS AND ANY CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

PROJECT TEAM

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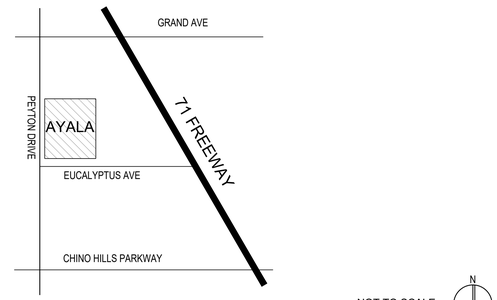
DRAWING REF NO	DESCRIPTION	DRAWING REF NO	DESCRIPTION
	ARCHITECTURAL		
A0.1	GENERAL NOTES / PROJECT DIRECTORY		
A1.1	SITE PLAN		
A1.2	ENLARGED SITE PLAN & ELEVATIONS		
A1.3	SPECIFICATION		
	ELECTRICAL		
E-1	ELECTRICAL GENERAL NOTES, SYMBOLS & DETAILS		
E-2	POOL BUILDING ELECTRICAL PLAN		
	AQUATIC SCOREBOARD 04-120097		
SHEET 1	SCOREBOARD PC COVER SHEET		
SHEET 5	MOUNTING DETAILS W/ VIDEO DISPLAY		
SHEET 7	2-COLUMN STRUCTURE W/ PIER FOUNDATIONS		
	TOTAL: 9 PAGES		

SCOPE OF WORK DESCRIPTION

THE SCOPE OF THE WORK AS STATED BELOW DOES NOT CONSTITUTE A DETAILED AND FULL EXPLANATION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

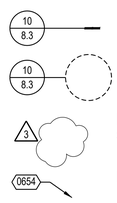
REPLACEMENT OF AQUATIC SCOREBOARD.

VICINITY MAP



NOT TO SCALE N

DRAFTING SYMBOL LEGEND



DETAIL
10 = DETAIL DESIGNATION
8.3 = REFERENCE DRAWING NUMBER

REVISION
3 = REVISION NUMBER

REFERENCE NOTE IDENTIFICATION
06 = DIVISIONAL PREFIX

CENTER LINES, FLOOR LINES AND LEVEL LINES

BREAKS OF BUILDING COMPONENTS

STATEMENT OF GENERAL CONFORMANCE
FOR PC- 04-120097

Statement of General Conformance
FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS
(Application No. 04 - 121522 **File No.** 36-H3 **)**

☒ The drawings or sheets listed on the cover or index sheet
☐ This drawing, page of specifications/calculations

have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this state. It has been examined by me for:

1) Design intent and appears to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications prepared by me, and
2) Coordination with my plans and specifications and is acceptable for incorporation into the construction of this project.

The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1. (Title 24, Part 1, Section 4-317 [b])

I find that: ☒ All drawings or sheets listed on the cover or index sheet ☐ This drawing or page

☒ is/are in general conformance with the project design intent, and ☐ has/have been coordinated with the project plans and specifications.	☐ is/are in general conformance with the project design intent, and ☐ has/have been coordinated with the project plans and specifications.
Signature:	Signature:
Date: 12/15/2022	Date:
Architect or Engineer designated to be in general responsible charge	**Architect or Engineer delegated responsibility for this portion of the work**
Print Name: ROBERT LAVEY	Print Name:
License Number: C-28020	License Number:
Expiration Date: 1/31/2023	Expiration Date:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121522 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 12/21/2022

PBK

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P 909-987-0909

AYLA HIGH SCHOOL
AQUATIC SCOREBOARD REPLACEMENT

PROJECT ADDRESS:
14255 PEYTON DRIVE
CHINO HILLS, CA 91709

Consultant

Architect

LICENSED ARCHITECT
ROBERT LAVEY
C-28020
Exp.01/31/23
STATE OF CALIFORNIA

CLIENT
Chino Valley Unified School District

DATE	PROJECT NUMBER
10/1/2022	W2105800AR

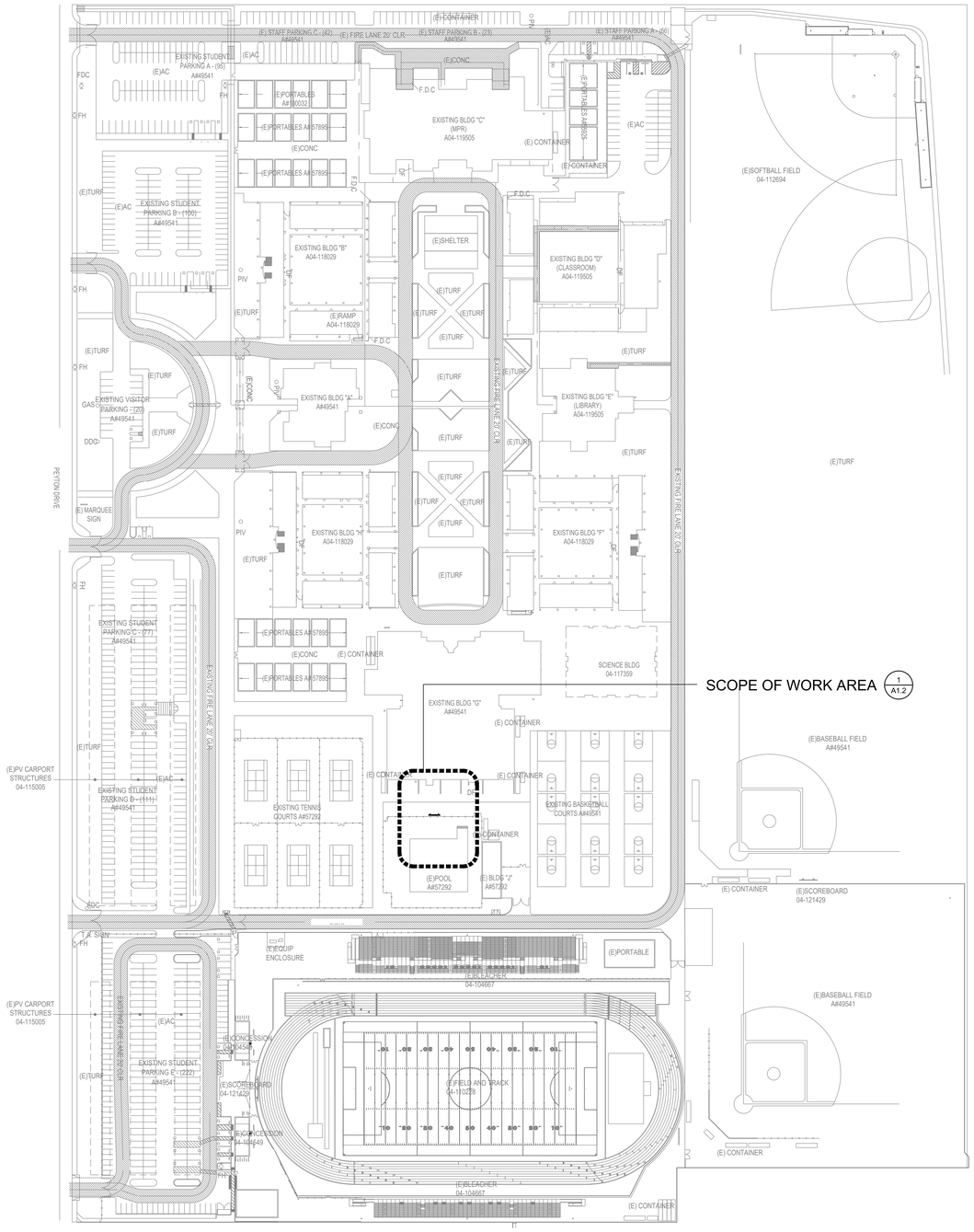
REVISIONS

No.	Description	Date

100% CD SUBMITTAL

GENERAL NOTES & PROJECT DIRECTORY

A0.1



DSA **810**

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings*.

PROJECT INFORMATION	
School District/Owner:	CHINO VALLEY UNIFIED SCHOOL DISTRICT
Project Name/School:	AYALA HIGH SCHOOL
Project Address:	14255 PEYTON DRIVE, CHINO HILLS, CA 91709

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☐		No ☑
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐		No ☑
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☑
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ/	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

DSA-810

N

OVERALL SITE PLAN | 1" = 80'-0" | 1 | REFERENCE NOTES

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AYLA HIGH SCHOOL
AQUATIC SCOREBOARD REPLACEMENT

PROJECT ADDRESS:
14255 PEYTON DRIVE
CHINO HILLS, CA 91709

Consultant

Architect

LICENSED ARCHITECT
ROBERT LAVEY
No. C-31123
STATE OF CALIFORNIA

CLIENT
Chino Valley Unified School District

DATE	PROJECT NUMBER
10/1/2022	W2105800AR

REVISIONS

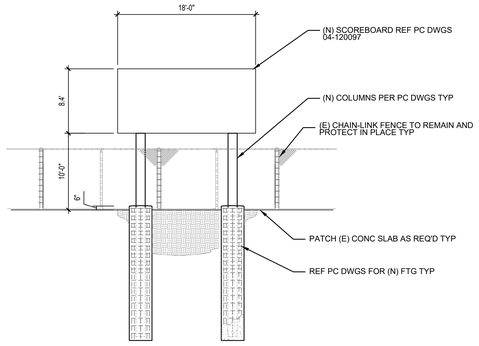
No.	Description	Date

100% CD SUBMITTAL

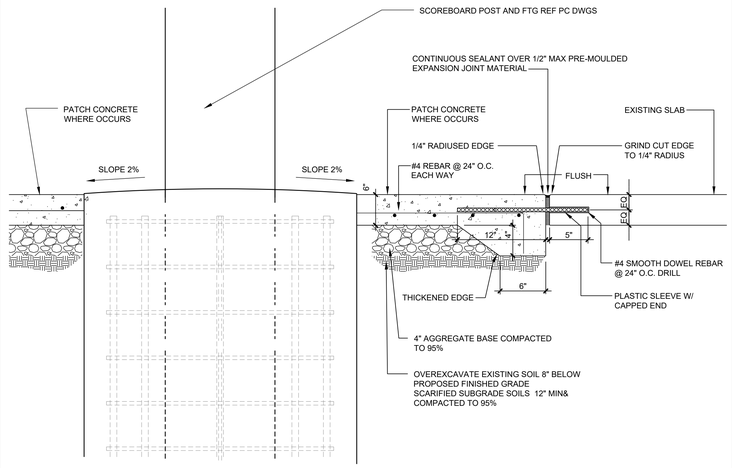
OVERALL SITE PLAN

A1.1

0" 1"



		18	ELEVATION	1/8" =1'-0"	14	CONCRETE PAVING	1 1/2"=1'-0"	6

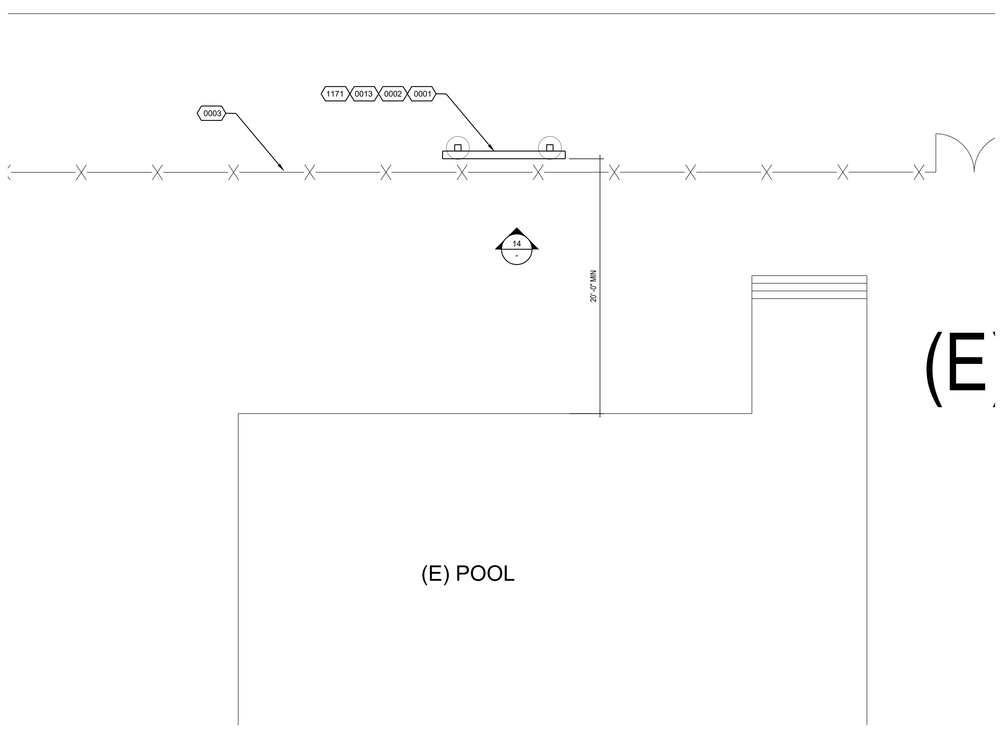


FILE/CSI NUMBER: REVISION DATE: JOB NUMBER:

PAINT ALL EXPOSED CONDUITS TO MATCH ADJACENT WALL COLOR. PREPARE SURFACE AND PAINT ALL EXPOSED STEEL IN THE SCOREBOARD ASSEMBLY / STRUCTURE. PAINT SHALL BE DUNN-EDWARDS OR EQUAL AS FOLLOWS:

1. STEEL - GALVANIZED (SEMI GLOSS URETHANE ALKYD ENAMEL)
   1ST COAT: SUPREME CHEMICAL METAL CLEAN AND ETCH SCME-01
   2ND COAT: ULGM00 ULTRASHIELD GALVANIZED METAL PRIMER
   3RD COAT: ASHL50 ARISTOSHIELD
   4TH COAT: ASHL50 ARISTOSHIELD

2. STEEL - PRIMED OR UNPRIMED (SEMI GLOSS URETHANE ALKYD ENAMEL)
   1ST COAT: BRPR00 BLOC-RUST PREMIUM
   2ND COAT: ASHL50 ARISTOSHIELD
   3RD COAT: ASHL50 ARISTOSHIELD



		24	ENLARGED SITE PLAN	1/8" =1'-0"	1	REFERENCE NOTES		

0001 DEMO (E) SCOREBOARD AND STEEL COLUMNS INCLUDING CONCRETE FOOTINGS PATCH (E) PAVMT AS REQ'D

0002 DISCONNECT (E) ELECTRICAL POWER & DATA REROUTE AS NECESSARY FOR NEW SCOREBOARD REF ELEC DWGS

0003 (E) CHAIN-LINK FENCE TO REMAIN AND PROTECT IN PLACE

0013 (E) CONC PVMT PATCH AS REQ'D REF 6/-

1171 (N) AQUATIC SCOREBOARD REF PC DRAWINGS 04-120097

DAKTRONICS

LVX-252X432-10SMD
ACTIVE AREA: 8.4' X 14.4'
SIDE PANELS (NON-BACKLIT)
8.4' X 1.8' @ 2
TOTAL AREA: 8.4' X 18'
REF SPECIFICATION SECTION 11 66 43 - DYNAMIC VIDEO SCOREBOARD DISPLAY

IDENTIFICATION STAMP
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AYLA HIGH SCHOOL
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STATE OF CALIFORNIA

CLIENT
Chino Valley Unified School District

DATE	PROJECT NUMBER
10/1/2022	W2105800AR

REVISIONS

No.	Description	Date

100% CD SUBMITTAL

ENLARGED SITE PLAN & ELEVATIONS

A1.2

SECTION 11 66 43

DYNAMIC VIDEO SCOREBOARD DISPLAY

PART 1 GENERAL

1.01 SECTION INCLUDES
A. Furnish and install scoring display including LED video matrix, standard scoreboard, game clocks, controllers, operating racks, decorative arch truss, advertisement panels, educational curriculum and all equipment and components necessary for a fully functioning scoring display. To be installed at the aquatic's facility.

1.02 REFERENCES
A. Standard for Electric Signs, UL 48
B. Standard for CSA C22.2 #207
C. Federal Communications Commission Regulation Part 15
D. National Electric Code

1.03 SUBMITTALS
A. Product data: Submit manufacturer's product illustrations, data and literature that fully describe the displays and accessories proposed for installation.
B. Shop drawings: Submit mechanical and electrical drawings.
C. Department of the State Architect: Submit DSA PC drawings for entire display configuration.
D. Maintenance data: Submit manufacturer's installation, operation, and maintenance manuals.

1.04 DELIVERY, STORAGE, AND HANDLING
A. Product delivered on site.
B. Display and equipment to be housed in a clean, dry environment.

1.05 PROJECT CONDITIONS
A. Environmental Limitations: Do not install display equipment until mounting structure is secure and concrete has ample time to cure.
B. Field Measurements: Verify position and elevation of structure and its layout for display equipment. Verify dimensions by field measurements.
C. Verify mounting structure can support the display's weight and wind load in addition to the auxiliary equipment.
D. Installation may proceed within acceptable weather conditions

1.06 QUALITY ASSURANCE
A. For outdoor use
B. Source Limitations: Obtain each type of electronic display through one source from a single manufacturer.
C. UL listed to UL 48
D. UL listed to CSA 22.2 #207
E. FCC compliant
F. Installed per NEC

1.07 WARRANTY
A. Provide 5 years of no cost parts exchange including ground shipping on electronics parts due to manufacturing defects for video display.
B. Provide 1-year on-site technical service support.
C. Provide 1-year product warranty for aquatic timing equipment.
D. Provide toll-free service coordination.
E. Provide technical online and phone support during Daktronics business hours.

PART 2 PRODUCTS

2.01 MANUFACTURER
A. Daktronics, Inc., 201 Daktronics Drive, P.O. Box 5128, Brookings, SD 57006-5128
1. Contact: Leie Sualua, leie.sualua@daktronics.com, 949.312.0903
B. Brokers or Resellers of LED display equipment are not permitted.

C. LED display must be manufactured from component level to full mode module in the U.S. outsourcing of modules outside of the U.S. and assembling the display at a U.S. factory will not be permitted.
D. Display manufacturer must maintain part availability for a minimum of 10-years including 10 years after a product has been discontinued.
E. Display manufacturer to have a minimum of twenty locations installed of this size or larger at a sports facility for game presentation in the state of California.
F. Display manufacturer must have factory technicians living in the State of California for service support.

2.02 VIDEO DISPLAY
A. General information
Product: LVX 10SMD: 10MM (3-in-1) LED display
Pixel Layout: Surface mounted RGB, clustered design not permissible.
Video Dimensions: 8' 4" H, 14.4' W, 11" D, including
Matrix size: 252 x 432
Weight: 1362 lb.
Power requirements: 8016 Watts
B. Cabinet Paint Color
1. Standard: Semi-gloss black on sides only
C. Communication type
1. Fiber optic (50/125 µm multi-mode), minimum 6 strand, non-terminated ends, quantity 1,000 lineal feet.
D. Construction
1. All-aluminum construction for light weight and corrosion resistance
2. Service Access: Front or Rear
E. Display Capabilities
1. Color Capacity: 16 bit (281 trillion colors)
2. LED Refresh Rate: 4800 Hz as defined by the number of times per second the LED image is repainted in intensity
3. Display has signal redundancy allowing for signal path both forward and backwards through modules allowing for loss of only 1 module vs. rows or blocks of multiple modules or panels in case of failure.
F. Viewing Characteristics
1. Module Intensity: 8500 nits (adjustable)
2. Brightness Control: 256 levels (manual, scheduled or automatic)
3. Suggested Viewing Angle: 160° horizontal and +25°/-45° vertical
G. Pixel Characteristics
1. Each pixel consists of one RGB 3-in-1 surface-mount device LED.
2. Pixel spacing measurement must be measured from the center points of neighboring physical pixels, rather than neighboring physical and virtual pixels.
H. LED Module Characteristics
1. Module shall be for outdoor use.
2. Module shall have anti-reflective paint or coating applied to display face. Black state across all modules shall exhibit a Delta E color variation of no more than .4.
3. Modules shall have horizontal louvers running between LEDs or pixels.
4. Modules shall be able to be removed and installed from both the front and rear of the display.
5. It is not necessary to remove or insert screws in order to remove or install modules.
6. Module shall be silicon potted on face beneath louver and rear, providing a 100% waterproof seal, regardless of module, cabinet or panel construction.
I. Video Processing
1. Video Frame Rate: 50/60 frames per second
2. Graphic Frame Rate: 30 frames per second
3. Processing Architecture: 22-bit distributed
4. System Architecture: 100% digital
5. Video Enhancement: Color space conversion, adjustable gamma correction, proprietary sharpening technology and enhancement algorithms for optimal picture quality
J. LED Quality
1. Quality Control: Sorted by intensity and color wavelength
2. LED Lifetime: 100,000 hours of operation as defined by time at which display intensity has decreased to 50 percent of the original intensity

K. Calibration
1. Pixel-to-pixel and module-to-module optical color calibration must be performed at the factory. The manufacturer must also provide easy-to-use calibration software that allows individual modules and pixels to be independently adjusted while in the display.
2. If modules should need replacement during the life of the display, the calibration software must match newer modules' brightness levels to older modules' levels to preserve picture quality and maintain a uniform display appearance.
L. Display Interface
1. The full-color video display must be able to interface and display real-time data from the control system without the need for a duplicate or redundant input.

2.03 DECORATIVE PANELS
A. General Information
1. Product: ID side panel with vinyl logo/lettering
2. Dimensions: 8.4' H x 1.8' W @ 2
3. To be installed on both sides of video board with a total cabinet width of 16.4'

2.04 VIDEO CONTROL/OPERATIONS SYSTEM
A. General Information
1. Product: 1V Input Control System
2. Show Control software on computer or laptop.
3. Fiber conversion box
B. Provide custom spirit animation package for the following sports/events
1. School spirit starter package vol 1, 20 pre-selected animations
2. Static/animated school logo: 4 total
C. Equipment Rack
1. Dimensions: 15" H x 10.65" W x 14" D; 8HU
2. A larger rack may be required based on additional optional equipment.
D. Media Player
1. Provide a Digital Media Player (DMP).
2. Animation rates of up to 60 frames per second
3. Resolution: 1080p 59.94
4. Video Input: up to 1080p 59.94
5. Video Output: DisplayPort to Video Image Processor
6. Audio Output: balanced 3-pin XLR
7. Ports: USB 2.0 @4, USB 3.0 @2
8. Memory: 16 GB DDR4
9. Storage: 1 TB
10. Networking: 10/100/1000 Ethernet (RJ-45 LAN) @2
11. Dimensions: Half-width 1RU; 1.75" H x 8.75" W x 12" D
E. Video Processor
1. Provide a Video Image Processor (VIP).
2. Video Input: DVI from Daktronics DMP
3. Video Output: Daktronics ProLink® 6 (fiber optic) @2
4. Color space conversion: Proprietary LED conversion
5. Networking: 10/100/1000 Ethernet (RJ-45 LAN) @1
6. Dimensions: Half-width 1RU; 1.75" H x 8.75" W x 12" D
F. Network Router
1. 8-port gigabit

2.05 AQUATIC TIMING EQUIPMENT
A. General Information
1. Product (s):
a. Timing Equipment Controller: Omnisport 2000e @ 1
b. Software: A-3325, Omni 2000 Pro Swim software
c. 5 port gigabit switch @ 1
d. Touch pad with gutter bracket, T7078, 78" x 22" T7000 @ 10
e. Touch pad storage cart @ 1
f. Horn start HS-200 @ 1
g. Horn start Backstroke flagpole mounting bracket @ 1
h. 5.4" individual lane speaker @ 10

i. Backup push button, 5' cable @ 20
j. Timing cables @ 1
k. Individual in-deck lane deck plate @ 10
l. Start speaker deck plate @ 1
m. Wall plate 15 x 15 @ 1
n. Lane Interface Module @ 1
o. Relay Take Off Platforms for 23' wide platforms @ 10
p. Relay Take Off Platform cart @ 1

PART 3 EXECUTION

3.01 EXAMINATION
A. Verify that mounting structure is ready to receive the display. Verify that placement of conduit and junction boxes are as specified and indicated in plans and shop drawings. Verify concrete has cured according to specifications.

3.02 INSTALLATION
A. All power and control cables to display will be routed in conduit. Power to the display as well as raceways shown on electrical plans by the Electrical Contractor. Display control wiring including conduit will be the responsibility of the contractor assigned the display equipment.
B. Install display to beams in location detailed and in accordance with manufacturer's instructions. Verify unit is plumb and level.
C. Manufacturer to supply final commissioning support and connections to display from primary power junction box at base of structure provided by contractor.
D. Manufacture to provide tech support to ensure system is working as specified.

3.03 INSTALLATION—CONTROL CENTER
A. Provide boxes, cover plates and jacks in locations per plans.
B. Test the operation of the display, controller, and all control jacks; leave control unit and other loose items with owner's designated representative.
C. Conduct operator training on the display/controller operation.
D. Manufacturer must supply all required signal conversion hardware to allow for direct wire control of electronic display.

END OF SECTION

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Consultant

Architect

LICENSED ARCHITECT
ROBERT LAVEY
C-23551
STATE OF CALIFORNIA

CLIENT
Chino Valley Unified School District

DATE	PROJECT NUMBER
10/1/2022	W2105800AR

REVISIONS

No.	Description	Date

100% CD SUBMITTAL

SPECIFICATION

A1.3

0" 1"

GENERAL NOTES

1. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS AND SERVICES REQUIRED FOR THIS COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEMS AS INDICATED AND SPECIFIED. ALL WORK SHALL BE NEW UNLESS NOTED OR SHOWN OTHERWISE.
2. ALL ELECTRICAL EQUIPMENT MATERIAL AND DETAILS OF INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST REVISIONS OF THE NATIONAL ELECTRICAL CODE OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, OF THE STATE OF CALIFORNIA TITLE 24, BASIC ELECTRICAL REGULATIONS OF THE STATE FIRE MARSHALL AND OTHER APPLICABLE CODES. NOTHING IN THE PLANS OR THESE SPECIFICATIONS SHALL BE CONSTRUED AS PERMITTING WORK NOT CONFORMING TO THE MOST STRINGENT OF THE APPLICABLE CODES.
3. THE BIDDER SHALL VISIT THE SITE AND MAKE A SURVEY OF EXISTING CONDITIONS WHICH MAY AFFECT OR BE AFFECTED BY THE WORK UNDER THIS SECTION. REFERENCE MADE IN THE SPECIFICATIONS OR ON THE DRAWINGS TO EXISTING WORK OR CORRECTNESS OF WAYS AND MEANS OF PERFORMING SHALL BE SUBJECT TO VERIFICATIONS BY THE CONTRACTOR IN HIS SURVEY AND ON THE PROGRESS OF THE WORK.
4. WIRE SHALL BE COPPER TYPE THWN-2 OR XHHW-2. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS NOTED OTHERWISE. WIRES SMALLER THAN #6 AWG SHALL BE SOLID AND #6 AWG AND LARGE SHALL BE STRANDED.
5. SPLICES IN #10 AWG AND SMALLER CONDUCTORS SHALL BE MADE WITH CONICAL SHAPED SPRING STEEL CONNECTORS PLATED FOR CORROSION PROTECTION. CONNECTORS MAY HAVE AN INSULATING, SEMI-RIGID OUTER SHELL. TWIST ON CONNECTORS OF PHENOLIC COMPOUND OR CRIMP-TYPE CONNECTIONS SHALL NOT BE USED.
6. WHEREVER CONDUCTORS ARE SPLICED OR TERMINATED IN A JUNCTION OR PULLBOX THEY SHALL BE MARKED WITH THEIR CIRCUIT NUMBER USING "BRADY" ADHESIVE MARKERS.
7. ALL EXPOSED EXTERIOR CONDUIT SHALL BE GALVANIZED RIGID CONDUIT (GRC). ALL UNDERGROUND COUIT SHALL BE PVC SCH 40.
8. FLEXIBLE STEEL CONDUIT SHALL BE GALVANIZED WITH FLEXIBLE OR CADMIUM-PLATED CONNECTORS OF THE TWIST-IN TYPE. FLEXIBLE CONDUIT SHALL ONLY BE USED AS APPROVED BY THE ENGINEER.
9. ALL EMPTY CONDUITS SHALL HAVE A 1/8" DIAMETER NYLON PULL CORD UNLESS OTHERWISE SPECIFIED.
10. ALL CONDUITS RUN EXPOSED SHALL BE INSTALLED PARALLEL OR AT RIGHT ANGLES TO BUILDING CONSTRUCTION OR METAL STRUCTURE.
11. BOXES SHALL BE GALVANIZED OR SHERARDIZED ONE PIECE PRESSED STEEL KNOCKOUT TYPE. MINIMUM SIZE BOX SHALL BE 4" BY 1 1/2" DEEP UNLESS OTHERWISE SPECIFIED OR INDICATED. BOXES SHALL HAVE PLASTER RINGS AS REQUIRED.
12. WIRING INSTALLED CONCEALED ABOVE GROUND IN DRY PLACES NOT IN CONCRETE WHERE NOT SUBJECT TO MECHANICAL DAMAGE SHALL BE IN EMT OR RIGID STEEL CONDUIT.
13. IN PANELS, PULLBOXES, OUTLET BOXES, GUTTERS, ETC., CONDUCTOR SHALL BE TIED WITH PLASTIC TIES, NEATLY FANNED OUT AND TAGGED WITH ADHESIVE MARKERS WHICH ARE CLEARLY MARKED WITH CIRCUIT NUMBERS, ALL IN AN APPROVED WORKMANLIKE MANNER.
14. ALL ELECTRICAL EQUIPMENT SHALL BE EMBRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE OF 20% OF ITS OPERATING WEIGHT ACTING IN ANY DIRECTION. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ELECTRICAL ENGINEER.
15. FINAL INSPECTION AND ACCEPTANCE: AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, THE PROJECT INSPECTOR WILL INSPECT THE WORK. CONTRACTOR SHALL PROVIDE COMPETENT PERSONAL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM, TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.
16. THE CONTRACTOR SHALL FURNISH ONE (1) YEAR WRITTEN GUARANTEE ON MATERIALS AND WORKMANSHIP, UNLESS MORE RESTRICTIVE WARRANTIES ARE NOTED IN SPECIFIED SECTIONS, FROM DATE OF ACCEPTANCE.
17. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF RECORD DRAWINGS AND AFTER COMPLETION OF HIS WORK TURN THEM OVER TO THE ENGINEER/OWNER.
18. ALL ELECTRICAL EQUIPMENTS SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.
19. ALL UNDERGROUND CONDUITS SHALL BE ENCASED IN SLURRY CONCRETE.
20. EXACT LOCATION OF ALL EQUIPMENT SHALL BE AS INDICATED ON THE ARCHITECTURAL PLANS.
21. UNLESS OTHERWISE NOTED, MOUNTING HEIGHTS INDICATED ON ELECTRICAL OUTLETS ARE FROM FINISHED FLOOR TO CENTER OF OUTLETS.
22. NO CONDUIT SHALL BE RUN HORIZONTALLY IN CONCRETE FLOOR SLABS.
23. ALL FINAL CONNECTIONS TO OWNER-FURNISHED EQUIPMENT SHALL BE MADE BY THIS CONTRACTOR.

MEP EQUIPMENT ANCHOARAGE NOTE

ALL MECHANICAL, PLUMBINNG, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWNG COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30:

A. ALL PERMANENT EQUIPMENT AND COMPONENTS
B. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
C. TEMPORARY, MOVABLE EQUIPMENT THAT IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIREDTO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRUBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.25 AND 1617A.1.26..

THE METHOD OF SHOWNG BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (e.g., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☑ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#) #_____.

9. PROOF LOAD TEST FOR EXPANSION, TYPE ANCHOR BOLTS (BOLTS MUST HAVE I.C.B.O. APPROVAL).

ALL CONCRETE ANCHOR BOLT OF THE EXPANSION TYPE (LOADED IN EITHER PULLOUT OR SHEAR) SHALL HAVE 50 PERCENT OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT) PROOF TESTED IN TENSION TO TWCE THE ALLOWABLE TENSION LOAD. IF THERE ARE ANY FAILURES, THE IMMEDIATELY ADJACENT BOLTS MUST THEN ALSO BE TESTED.

TYPE OF MATERIALS		TYPE OF TEST	BOLT DIAMETER 3/8"	1/2"	5/8"	3/4"
HARD ROCK CONCRETE	DIRECT TORQUE	PULL-TENSION,LBS. WRENCH-TORQUE,FT.LBS.	1300 25	2000 50	2900 110	4300 150
LT.WT. CONCRETE	DIRECT TORQUE	PULL-TENSION,LBS. WRENCH-TORQUE,FT.LBS.	970	1400 20	1950 35	2590 75

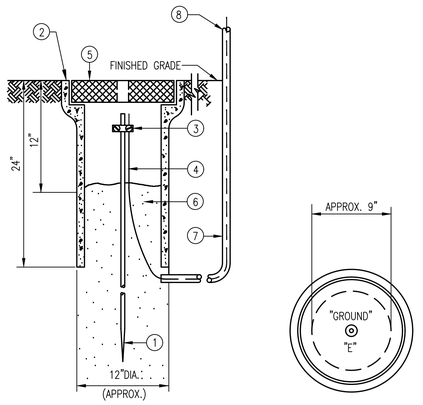
10. ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR OTHERS AND THOSE SHOWN ON THE RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE OWNER BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PERSUANT THERETO AGREES TO ASSUME LIABILITY AND TO HOLD THE ENGINEER HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE ENGINEER; NOT INDICATED ON THE PUBLIC RECORDS EXAMINED; LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.
11. ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH EXISTING FINISH.
12. THE CONTRACTOR SHALL NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE FIELD VERIFIED.
13. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER THE SHUT-DOWN SCHEDULE AND TIME REQUIRED PRIOR TO DEMOLITION AND INSTALLATION OF NEW CONDUIT, WIRE AND PANELBOARDS FROM THE EXISTING SYSTEM. THE SHUT-DOWN SHALL BE SCHEDULED IN SUCH A MANNER TO MINIMIZE INTERRUPTION OF REGULAR ACTIVITIES. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL PREMIUM TIME REQUIRED FOR THE NEW CONNECTIONS. (NO EXCEPTION WILL BE TAKEN DURING NORMAL BUSINESS HOURS).
14. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR ALL TRENCHING, BACKFILLING SAW CUTTING AND REFINISHING OF SURFACES. FINISHES TO MATCH EXISTING. (NEW EXPOSED CONDUIT TO BE PAINTED TO MATCH EXISTING FINISH).

APPLICABLE CODES

1. 2022 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2. 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2018 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2022 CALIFORNIA AMENDMENTS)
3. 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2017 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
4. 2019 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2018 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
5. 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5 TITLE 24 C.C.R. (2018 UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
6. 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
7. 2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2018 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
8. 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
9. 2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
10. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
———	CONDUIT RUN, CONCEALED IN CEILING, WALLS OR BELOW ROOF. CONDUIT MAY BE CONCEALED BELOW SLAB AS PERMITTED BY ENGINEER.
#10	CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 WIRES CONTAINED THEREIN. GROUND WIRE IS REQUIRED BUT NO INDICATED. TWO #12 ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12.
B-1,3,5-7	CONDUIT HOME RUN TO PANELBOARD. LETTER AND NUMERALS INDICATES ELECTRICAL PANEL AND CIRCUIT NUMBER. CIRCUITS 1,3,5 WITH SHARED NEUTRAL AND CIRCUIT 7 WITH DEDICATED NEUTRAL.
#10	CONDUIT HOMERUM FOR ISOLATED GROUND RECEPTACLE (2#12 & 1#10 GROUND).
C.O.	CONDUIT ONLY, WITH PULL ROPE.
	DUPLEX GROUNDING TYPE RECEPTACLE WALL MOUNTED (+18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED).
	DOUBLE DUPLEX GROUNDING TYPE RECEPTACLE, WALL MOUNTED (+18" ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED).
GFI	"GFI" ADJACENT TO SYMBOL INDICATES GROUND FAULT INTERRUPTING TYPE RECEPTACLE
	JUNCTION BOX
	BRANCH CIRCUIT PANEL, MOUNTING AS SHOWN ON SCHEDULES.
	DISCONNECT SWITCH
Sm	MOTOR RATED SWITCH
	PANEL DESIGNATION.
CTB	COMMUNICATIONS TERMINAL BOARD.
MDF	MAIN DISTRIBUTION FRAME.
IDF	INTERMEDIATE DISTRIBUTION FRAME
(E)	EXISTING EQUIPMENT TO REMAIN
(R)	REMOVE EQUIPMENT
(RR)	REMOVE EQUIPMENT AND RELOCATE TO NEW LOCATION
(ER)	NEW LOCATION OF EXISTING RELOCATED EQUIPMENT. EXTEND CONDUIT AND RE-CONNECT TO EXISTING CIRCUIT OR SYSTEM FOR COMPLETE AND OPERABLE SYSTEM.
(N)	NEW EQUIPMENT AND CONDUIT



SPECIAL NOTES:

1. #4 REBAR OR 1/2" ø X 10'-0" COPPER CLAD DRIVEN GROUND ROD
2. PRECAST GROUND ELECTRODE ENCLOSURE
3. GROUND CONNECTOR
4. #6(MIN.)BARE COPER GROUNDING CONDUCTOR
5. STEEL TRAFFIC TYPE COVER WITH HOOK HOLE AND ETCHED WORDS "GROUND"
6. SAND BACKFILL 1/2 CUBIC YARD MINIMUM
7. SCHEDULE 40 PVC CONDUIT WITH BARE COPPER GROUNDING CABLE
8. CONNECT TO METAL PART

GROUND WELL | NTS | 1

EXISTING

VOLTAGE 120/240 1Ø, 3W
BUS AMPS 100
MAIN BREAKER ☒ 100 A.F. 40 A.T.
LUGS ONLY ☐
PANEL HL1
LOCATION STORAGE
TOP FEED ☐ SURFACE MTG.☒
BOTTOM FEED ☐ FLUSH MTG. ☐
REMARKS MIN. 14KAIC

	DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	LOC L	OUTLETS L	OUTLETS R	OUTLETS M	CKT B	CKT	BUS A	BUS B	CKT	CKT B	OUTLETS L	OUTLETS R	OUTLETS M	LOC L	VOLT-AMPS A	VOLT-AMPS B	DESCRIPTION	
(E)	SPARE							20/1	1			2	50/2				1	4008		POOL VIDEO BOARD	(N)*
	SPARE							20/1	3			4	–			–			4008	–	
	SPARE							20/1	5			6									
	SPARE							20/1	7			8									
	SPARE								9			10									
	SPARE								11			12									
									13			14									
									15			16									
									17			18									
									19			20									
									21			22									
									23			24									
									25			26									
									27			28									
									29			30									
									31			32									
									33			34									
									35			36									
									37			38									
									39			40									
									41			42									
	SUB TOTALS																	4008	4008		SUB TOTALS

CONN. PHASE TOTAL: A 4008 B 4008 ; CONN. PANEL TOTAL 8016 VA; MAX. CONN. LINE CURRENT 33.4 AMPS
(KVA) PANEL TOTAL 8016 + L.C.L. (.25) = 8.02 KVA; BALANCED CURRENT 33.4 AMPS; DESIGN LOAD KVA

* NOTE: INSTALL NEW CIRCUIT BREAKER TO MATCH EXISTING AIC RATING.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121522 INC:
REVIEWED FOR
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DATE: 12/21/2022

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SCOREBOARDS REPLACEMENT

PROJECT ADDRESS:
14255 PEYTON DRIVE
CHINO HILLS, CA 91709

DSA APPL NO.: ##-##### DSA FILE NO.: ###-###

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Consultant

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06/30/2024
ELECTRICAL
STATE OF CALIFORNIA

Architect

LICENSED ARCHITECT
ROBERT LAVEY
RL-28020
12/31/23
STATE OF CALIFORNIA

CLIENT
Chino Valley Unified School District

DATE	PROJECT NUMBER
12/16/2022	W2105800AR

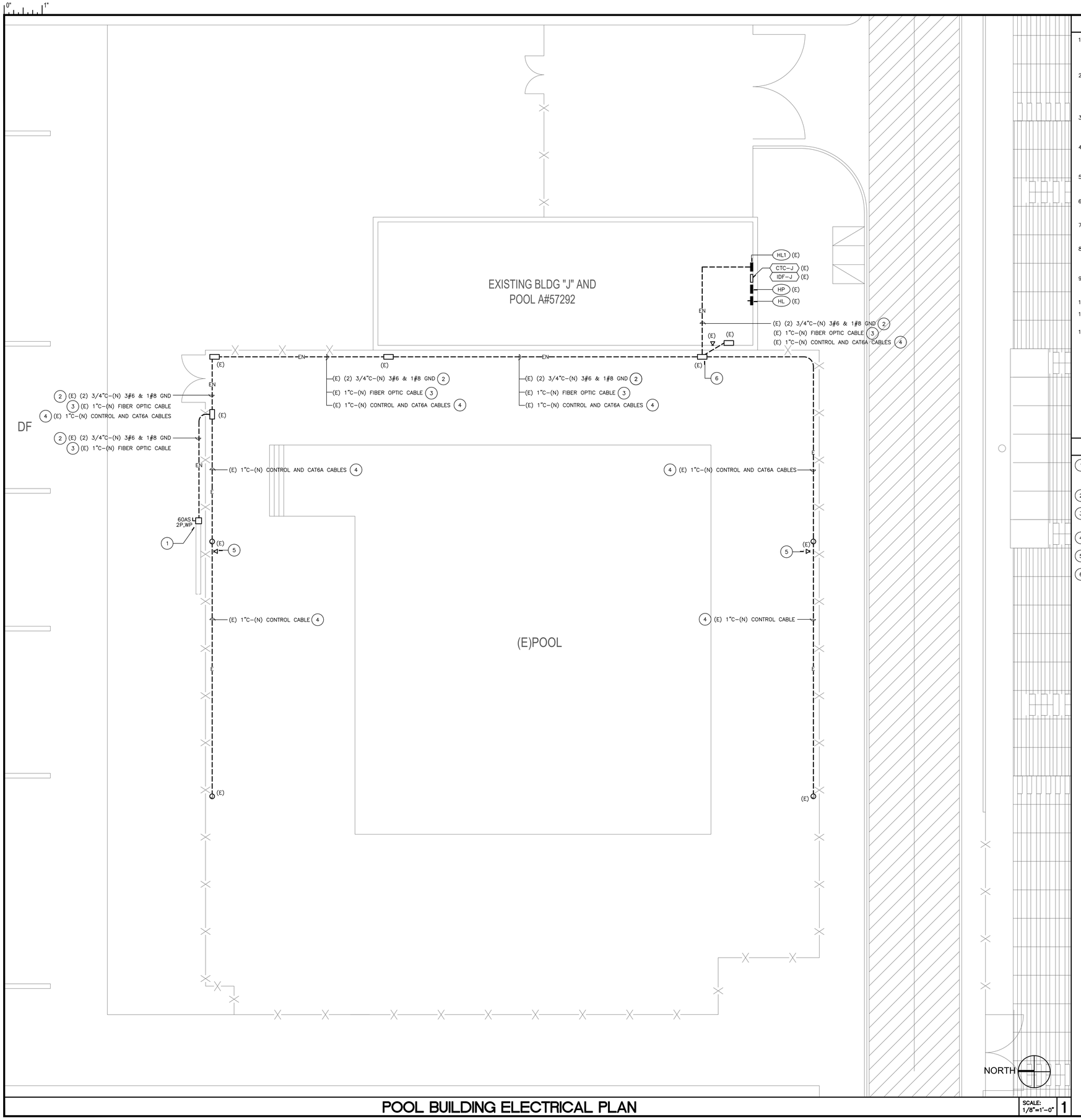
REVISIONS

No.	Description	Date

100% CD SUBMITTAL

ELECTRICAL GENERAL NOTES, SYMBOLS & DETAILS

E-1



NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE AND MAKE SURVEY OF EXISTING CONDITIONS WHICH MAY AFFECT OR BE AFFECTED BY THE WORK UNDER THIS SECTION. REFERENCE MADE IN THESE SPECIFICATIONS OR ON THE DRAWINGS TO EXISTING WORK OR CORRECTNESS OF WAYS AND MEANS OF PERFORMING SHALL BE SUBJECT TO VERIFICATIONS BY THE CONTRACTOR IN HIS SURVEY AND ON THE PROGRESS OF THE WORK.
2. THE CONTRACTOR SHALL VISIT THE JOB SITE TO ACQUAINT HIMSELF WITH ACTUAL CONDITIONS OF EXISTING AND TO BECOME FAMILIAR WITH THE TOTAL SCOPE OF WORK REQUIRED. SUBMISSION OF BID WILL BE INDICATION THAT CONTRACTOR HAS MADE VISUAL INSPECTION OF THE SITE, HAS REVIEWED ALL PLANS AND AS-BUILT DRAWINGS, OUTLINE REQUIREMENTS AND HAS INCLUDED IN THE PRICE ALL LABOR, MATERIALS AND EQUIPMENT TO COMPLETE THE ELECTRICAL WORK.
3. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DO ALL CORING, CUTTING, PATCHING AND REFINISHING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY FOR HIM TO PENETRATE FOR HIS WORK. ALL OPENINGS MADE SHALL BE SEALED TO MEET THE RATED INTEGRITY OF THE PARTICULAR WALL, FLOOR OR CEILING.
4. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF EXISTING SYSTEM, EQUIPMENT, ETC. REMAINING IN OPERATION. WHERE AN EXISTING OUTLET DEVICE IS BEING FED BY AN ABANDON OUTLET, MAINTAINING CONTINUITY SHALL CONSIST OF RE-ROUTING OF CONDUIT, WIRE, ETC. AS REQUIRED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND VERIFYING, THE EXACT LOCATION OF THE "POWER AND "SIGNAL" PULLBOXES FOR THE PROPER INTERFACE WITH THE UNDERGROUND CONDUIT STUB-UPS.
6. WHERE EXISTING CONDUIT STUB-OUTS ARE TO BE INTERCEPTED, THE CONTRACTOR SHALL VERIFY THE ACTUAL ROUTING OF THE EXISTING CONDUITS AND DETERMINE THE ACTUAL POINT OF INTERCEPTION THE FIELD.
7. LOCATION OF UNDERGROUND PULLBOXES AND CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL PULLBOX LOCATION AND ROUTING OF UNDERGROUND CONDUITS SHALL BE VERIFIED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES.
8. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN REQUIRED CLEARANCES BETWEEN UNDERGROUND ELECTRICAL CONDUITS AND FOOTINGS. CONDUIT STUB-UPS SHALL NOT BE INSTALLED IN FOOTINGS, EXACT METHOD FOR STUBBING-UP CONDUITS AT FOOTINGS LOCATIONS SHALL COORDINATED IN THE FIELD WITH THE ARCHITECT.
9. PROTECT EXISTING CONCRETE, WALKWAY, ELECTRICAL FOR TRENCHING TO BE WITHIN LANDSCAPE AREA UNLESS WHERE NECESSARY. PATCH CONCRETE TO MATCH SURROUNDING WHERE NECESSARY.
10. VERIFY EXACT LOCATION OF NEW EQUIPMENTS MOUNTING IN FIELD.
11. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH SCOREBOARD MANUFACTURER FOR REQUIREMENTS FOR COMPLETE AND OPERABLE SYSTEM.
12. REFER TO SCOREBOARD DRAWINGS FOR MOUNTING AND INSTALLATION DETAIL. BOND ALL METAL PARTS.

REFERENCE NOTES

1. DISCONNECT CONNECTION TO EXISTING SCOREBOARD AND INSTALL NEW DISCONNECT SWITCH (SIZE AS SHOWN ON PLAN). INSTALL 1/2"C- 1#6 GND TO 3/4" x 10 FT. GROUND ROD CONNECTED TO METAL STRUCTURE AND BOND ALL METAL PARTS. VERIFY EXACT LOCATION AND QUANTITY OF DISCONNECT SWITCH IN FIELD.
2. REMOVE EXISTING CONDUCTORS AND INSTALL NEW CONDUCTORS IN EXISTING CONDUIT FROM EXISTING PANEL TO NEW SCOREBOARD. VERIFY EXACT ROUTING IN FIELD.
3. REMOVE EXISTING DATA CABLE AND INSTALL NEW FIBER OPTIC CABLE (WET LOCATION RATED) FROM EXISTING IDF TO NEW SCOREBOARD. VERIFY EXACT ROUTING AND OTHER REQUIREMENTS WITH DAKTRONIC.
4. REMOVE EXISTING SIGNAL CABLE AND REPLACE WITH NEW DAKTRONIC LANE EXTENSION CABLE. . TYPICAL FOR EACH POOL LANE.
5. INSTALL (2) CAT 6A JACK IN WEATHERPROOF ENCLOSURE AND CAT 6A DATA CABLES TO EXISTING IDF. VERIFY EXACT LOCATION IN FIELD.
6. REMOVE EXISTING LANE CABLE CONNECTORS AND INSTALL NEW DAKTRONIC CABLE CONNECTORS ON EXISTING CONCRETE PEDESTAL. VERIFY EXACT LOCATION AND OTHER REQUIREMENTS WITH DAKTRONIC.

POOL BUILDING ELECTRICAL PLAN

SCALE: 1/8"=1'-0" 1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121522 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
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Architect

LICENSED ARCHITECT ROBERT LAVEY C-29820 06/30/23 STATE OF CALIFORNIA

CLIENT
Chino Valley Unified School District

DATE	PROJECT NUMBER
12/16/2022	W2105800AR

REVISIONS

No.	Description	Date

100% CD SUBMITTAL

POOL BUILDING ELECTRICAL PLAN

E-2

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2019 CBC

Application Number: 04-120097	School Name: Pre Check	School District: Daktronics, Inc.
DSA File Number:	Increment Number:	Date Created: 2021-05-11 13:37:57

2019 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, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2019 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 Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic Indicates that a periodic special inspection is required	LOR 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.
Test Indicates that a test is required	PI Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
	SI Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DGS DSA 103-19 (Revised 07/16/2020)

DIVISION OF THE STATE ARCHITECT | DEPARTMENT OF GENERAL SERVICES | STATE OF CALIFORNIA

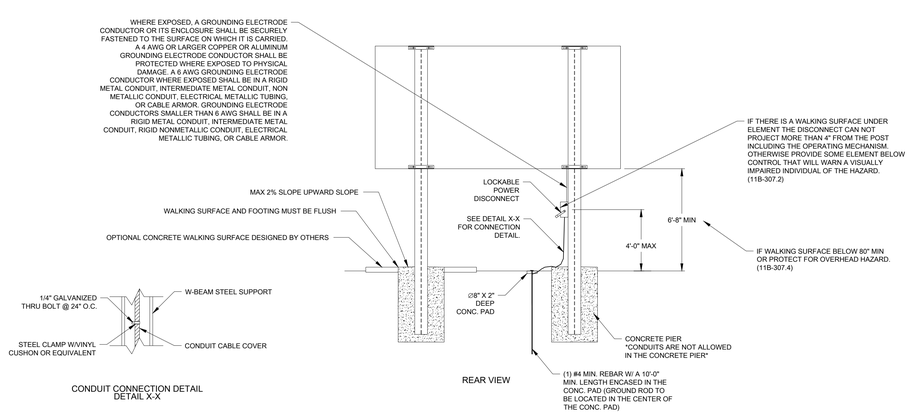
Page 1 of 19

THE REST OF THE DSA 103 FORM CONTINUES ON SHEETS 2 & 3.

CHECKLIST OF DESIGN PARAMETERS:

- RISK CATEGORY: II
- WIND SPEED: 100 MPH OR 130 MPH, AS SELECTED FROM TABLES ON SHEETS 7 THRU 10
- ALL CONNECTIONS AND MOUNTING DETAILS DESIGNED FOR 130MPH.
- EXPOSURE: C
- Kzt = 1.0, Kd = 0.85, g = 0.85
- LATERAL FORCE-RESISTING SYSTEM: SIGNS & BILLBOARDS
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
- SEISMIC DESIGN CATEGORY: E
- SEISMIC IMPORTANCE FACTOR: Ie = 1.0
- SITE CLASS: D
- Ss: 3.00
- S1: 1.50
- SDS: 2.00
- SD1: 1.70
- Fv = 1.7
- Fa = 1.0
- R = 3.0
- Cs: 0.67
- DESIGN BASE SHEAR: V = 0.67*W
- IF PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THIS PC ARE STILL APPLICABLE.
- GEOHAZARD REPORTS ARE NOT REQUIRED FOR NON-BUILDING FREESTANDING SIGN AND SCOREBOARD STRUCTURES. REF. IR A-4.13
- CUT SHEETS FOR MANUFACTURED EQUIPMENT ARE REQUIRED.
- THERE ARE NO APPLICABLE FIRE, LIFE SAFETY, OR ENERGY/CLIMATE DESIGN PARAMETERS.

GROUNDING DETAIL



CONDUIT CONNECTION DETAIL
DETAIL X-X

NOTE:

ALL DISPLAYS MUST BE GROUNDED PER ARTICLE 250 AND 600 OF THE CALIFORNIA ELECTRICAL CODE WITH NO MORE THAN 10 OHMS GROUND RESISTANCE.

SHEET 1; SCOREBOARD PC COVER SHEET
~~SHEET 2; DSA 103 SPECIAL INSPECTION FORM~~
~~SHEET 3; DSA 103 SPECIAL INSPECTION FORM (CONT.)~~
~~SHEET 4; EQUIPMENT MOUNTING DETAILS (WITHOUT VIDEO DISPLAY)~~
SHEET 5; EQUIPMENT MOUNTING DETAILS (WITH VIDEO DISPLAY)
~~SHEET 6; SOUND EQUIPMENT MOUNTING DETAILS~~
SHEET 7; TWO-COLUMN STRUCTURE DETAILS WITH PIER FOUNDATIONS
~~SHEET 8; TWO-COLUMN STRUCTURE DETAILS WITH SPREAD FOUNDATIONS~~
~~SHEET 9; THREE-COLUMN STRUCTURE DETAILS WITH PIER FOUNDATIONS~~
~~SHEET 10; THREE-COLUMN STRUCTURE DETAILS WITH SPREAD FOUNDATIONS~~

DRAWING INDEX

SCOPE: CONSTRUCTION OF 2- OR 3-COLUMN STRUCTURES FOR USE WITH DAKTRONICS SIGNS.

INSPECTOR OF RECORD, CLASS 3

PRECHECK DRAWING CHANGES:
CHANGES IN THE PLANS AND SPECIFICATION SHALL BE MADE BY REVISION DOCUMENTS APPROVED BY DSA. (2019 CALIFORNIA ADMINISTRATIVE CODE SECTION 4-338)

SITE SPECIFIC ARCHITECTURAL DRAWING CHANGES:
ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR) CHANGES TO THE APPROVED DRAWING AND SPECIFICATION SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF STATE ARCHITECTS, AS REQUIRED BY SECTION 4-338 PART 1 TITLE 24 CCR.

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT, OWNER AND APPROVED BY THE DIVISION OF STATE ARCHITECTS SHALL PROVIDE SPECIAL INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTION ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24 CODE.

TITLE 24 CODES

2019 CALIFORNIA ADMINISTRATIVE CODE (CAC)	(PART 1, TITLE 24 CCR)
2019 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2	(PART 2, TITLE 24 CCR
2019 CALIFORNIA ELECTRICAL CODE	(PART 3, TITLE 24 CCR)
2019 CALIFORNIA MECHANICAL CODE (CMC)	(PART 4, TITLE 24 CCR)
2019 CALIFORNIA PLUMBING CODE	(PART 5, TITLE 24 CCR)
2019 CALIFORNIA ENERGY CODE	(PART 6, TITLE 24 CCR)
2019 CALIFORNIA FIRE CODE (CFC)	(PART 9, TITLE 24 CCR)
2019 CALIFORNIA GREEN BUILDING STANDARDS CODE	(PART 11, TITLE 24 CCR)
2019 CALIFORNIA REFERENCED STANDARDS CODE	(PART 12, TITLE 24 CCR)

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS
2019 CBC, CHAPTER 35
2019 CFC, CHAPTER 80

GENERAL REQUIREMENTS
THE ARCHITECT OR STRUCTURAL ENGINEER IN GENERAL RESPONSIBLE CHARGE SHALL SIGN AND SEAL ALL DRAWINGS AND SPECIFICATIONS.
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECTS, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECTS SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR CLASS 3 INSPECTOR.

GENERAL / CODE INFORMATION

ALUMINUM: ALL ALUMINUM MEMBER GRADE 6061-T6 (UNLESS NOTED OTHERWISE)
CORROSION RESISTANT MATERIAL SHALL BE PROVIDED BETWEEN FERROUS METAL (STEEL) AND NON-FERROUS METAL (ALUMINUM).

STEEL: DESIGN AND FABRICATION IN ACCORDANCE WITH AISC-ASD, 15th EDITION.
WIDE FLANGE SHAPES ASTM A992 (Fy = 50 ksi)
BOLTS SS304 F593C CW1. Fu=100 KSI OR A325 WITH CORROSION-PREVENTITIVE COATING THAT DEMONSTRATED NO MORE THAN 2% RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117.
ZINC PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT AND GALVANIZED HARDWARE IS NOT COMPATIBLE WITH ALL MANUFACTURED EQUIPMENT.
REINFORCING STEEL ASTM 615, GRADE 60 (Fy = 60 ksi)
HSS SHAPES ASTM A500 GR C (Fy = 50 ksi)
STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED (MINIMUM ASTM A123 OR A153 CLASS D, AS APPLICABLE) OR PAINTED WITH ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT; OR EQUIVALENT PAINT SYSTEM.

WELDING: DESIGN AND FABRICATION ACCORDING TO AWS D1.1, CURRENT EDITION, AWS CERTIFICATION REQUIRED OF ALL STRUCTURAL WELDERS.
E70XX ELECTRODES FOR SMAW PROCESSES
F7X-EXXX ELECTRODES FOR SAW PROCESSES
PROVIDE PERIODIC SPECIAL INSPECTION FOR FIELD WELDING PER 2019 CBC, TABLE 1705A.2.1

CONCRETE: DESIGN AND CONSTRUCTION ACCORDING TO ACI 318-14.
TYPE V CEMENT, MAXIMUM WATER-TO-CEMENT RATIO = 0.45
COMPRESSIVE STRENGTH AT 28 DAYS (f'c) = 4500 PSI, MIN.
CONTINUOUS BATCH PLANT INSPECTION NOT REQUIRED.
PROVIDE SLOPE AWAY FROM BASE OF SUPPORTS.
CONCRETE POURED INTO CONSTRAINED EARTH EXCAVATIONS MUST CURE UNDER PROPER CONDITIONS FOR 4 DAYS PRIOR TO SIGN CABINET INSTALLATION.
EXCEPTION: IF THE OVERALL HEIGHT OF THE SIGN IS LESS THAN 20 FEET ABOVE GRADE AND THE SIGN POLE IS ADEQUATELY BRACED AGAINST WIND LOADS FOR A MINIMUM OF 4 DAYS, THE SIGN CABINET MAY BE INSTALLED THE SAME DAY THE FOOTING IS POURED.

SOILS: SOIL PASSIVE PRESSURE BASED ON 2019 CBC, TABLE 1806A.2, CLASS 5.
LATERAL BEARING PRESSURE = 100 PSF/FT (THIS VALUE IS INCREASED IN THE CALCULATIONS PER CBC SECTION 1806A.3.4 FOR POLE FOOTING DESIGN)
INSPECTOR OF RECORD (IR) SHALL PROVIDE INSPECTION OF SOILS PER TEST AND INSPECTION FORM DSA-103. (IF SOFT OR SANDY SOIL, COLLAPSING OR UNSTABLE SOIL, CORROSIVE SOIL, ORGANIC MATERIALS OR GROUNDWATER ARE ENCOUNTERED, IMMEDIATELY CONTACT THE ARCHITECT OR ENGINEER OF RECORD FOR ADDITIONAL FOUNDATION REQUIREMENTS.)

TESTING & QUALITY CONTROL:

UNLESS NOTED OTHERWISE, CONCRETE MATERIALS SHALL CONFORM TO CHAPTER 19A. SPECIAL INSPECTIONS AND TESTS SHALL BE REQUIRED PER TABLE 1705A.3. FOUNDATION INSPECTION SHALL BE REQUIRED PER 1705A.6.
STEEL SPECIAL INSPECTION AND TESTS SHALL BE REQUIRED PER TABLE 1705A.2.1.

NOTES: SIGN CABINETRY SHALL BE FABRICATED TO PROVIDE ISOLATION OF DISSIMILAR MATERIALS.

DAKTRONICS HAS DESIGNED THE DISPLAY COMPONENTS AND THEIR MOUNTING PER CBC 2019 AND THEY ARE IN COMPLIANCE WITH THE CURRENT CODES.

CONSTRUCTION SPECIFICATIONS

PRE-CHECK (PC) DOCUMENT

CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

VECTOR ENGINEERS
WELLS L. HOLMES, S.E.
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REGISTERED PROFESSIONAL ENGINEER
WELLS HOLMES
S 8203
STRUCTURAL
STATE OF CALIFORNIA

10/07/2021

STRUCTURAL ENGINEER OF RECORD

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-120097 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 10/18/2021

PROJECT-SPECIFIC APPROVALS

Quote: 784390-1-5

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

REV	DATE:	REVISED WALKING SURFACE NOTES UNDER GROUNDING DETAIL VIEW. REMOVED REV 01(VE). UPDATED NOTES UNDER CONSTRUCTION SPECIFICATIONS.	BY:
02	15 SEP 21		SAE
REV	DATE:		BY:
01	13 MAY 21	DSA 103-19: LISTING OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS, 2019 CBC	SAE

THIRD ANGLE PROJECTION

PROJECT:	2019 CBC DSA PRE-CHECK DRAWINGS		
TITLE:	SHEET 1; SCOREBOARD PC COVER SHEET		
DATE:	11 MAY 20	DIM UNITS: INCHES [MILLIMETERS]	SHEET REV
SCALE:	1/4" = 1'-0"	DO NOT SCALE DRAWING	1 02
DESIGN:	THOLZER	JOB NO.	FUNC - TYPE - SIZE
DRAWN:	THOLZER	P2236	F - 10 - D 4682217

COLUMN IS A W-FLANGE.
MAXIMUM FLANGE WIDTH IS 16".

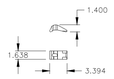
MINIMUM CLAMPS PER SECTION:
2 COLUMN STRUCTURES: 4
3 COLUMN STRUCTURES: 6
INSTALL TORQUE: 40 FT*LBS

MAXIMUM SECTION HEIGHT IS 10'-0"

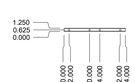
MAXIMUM SECTION WEIGHT
LESSER OF
-12 PSF
-1050 LBS FOR 2
COLUMN STRUCTURES
-1575 LBS FOR 3
COLUMN STRUCTURES

I-BEAM LIMITATIONS
-MIN. FLANGE THICKNESS = 3/16"
-MAX.FLANGE THICKNESS = 3/4"
-IF THE I-BEAM FLANGE THICKNESS IS GREATER THAN SPECIFIED, LONGER BOLTS WILL BE REQUIRED AT THE CUSTOMER'S EXPENSE. MAX LENGTH OF REPLACEMENT BOLT IS 3.5". MUST BE SS304 BOLTS.

MOUNTING DETAIL 5

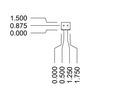


LAYOUT VIEW
AD PANEL CLAMP
(6061-T6 ALUMINUM)

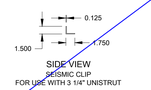


FRONT VIEW
MOUNTING CHANNEL (6061-T6)
FOR USE WITH 3 1/4" UNISTRUT

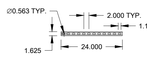
SIDE VIEW
MOUNTING CHANNEL (6061-T6)
FOR USE WITH 3 1/4" UNISTRUT



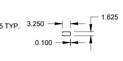
TOP VIEW
SEISMIC CLIP
5052-H32 ALUMINUM
FOR USE WITH 3 1/4" UNISTRUT



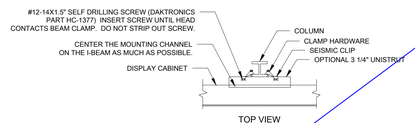
SIDE VIEW
SEISMIC CLIP
FOR USE WITH 3 1/4" UNISTRUT



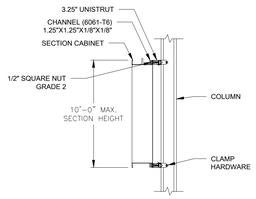
FRONT VIEW
3 1/4" UNISTRUT



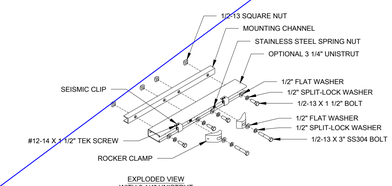
SIDE VIEW
3 1/4" UNISTRUT



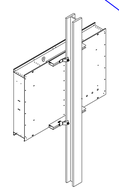
TOP VIEW



SIDE VIEW
WITH OPTIONAL 3 1/4" UNISTRUT



EXPLODED VIEW
WITH 3 1/4" UNISTRUT



ISOMETRIC VIEW
WITH 3 1/4" UNISTRUT

COLUMN IS A W-FLANGE.
MAXIMUM FLANGE WIDTH IS 16".

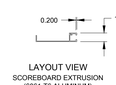
MINIMUM CLAMPS PER SECTION:
2 COLUMN STRUCTURES: 4
3 COLUMN STRUCTURES: 6
INSTALL TORQUE: 40 FT*LBS

MAXIMUM SECTION HEIGHT IS 6'-6"

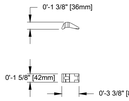
MAXIMUM SECTION WEIGHT
LESSER OF
-12 PSF
-1050 LBS FOR 2
COLUMN STRUCTURES
-1575 LBS FOR 3
COLUMN STRUCTURES

I-BEAM LIMITATIONS
-MIN. FLANGE THICKNESS = 3/16"
-MAX.FLANGE THICKNESS = 3/4"
-IF THE I-BEAM FLANGE THICKNESS IS GREATER THAN SPECIFIED, LONGER BOLTS WILL BE REQUIRED AT THE CUSTOMER'S EXPENSE. MAX LENGTH OF REPLACEMENT BOLT IS 3.5". MUST BE SS304 BOLTS.

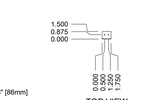
MOUNTING DETAIL 7



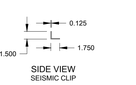
LAYOUT VIEW
SCOREBOARD EXTRUSION
(6061-T6 ALUMINUM)



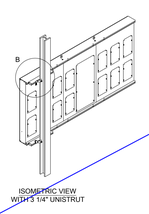
LAYOUT VIEW
SCOREBOARD CLAMP
(6061-T6 ALUMINUM)



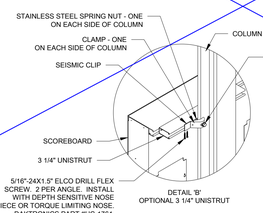
TOP VIEW
SEISMIC CLIP
5052-H32 ALUMINUM



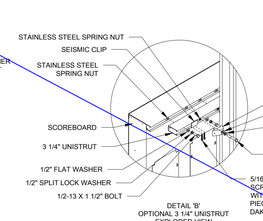
SIDE VIEW
SEISMIC CLIP



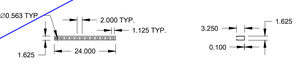
ISOMETRIC VIEW
WITH 3 1/4" UNISTRUT



DETAIL 'B'
OPTIONAL 3 1/4" UNISTRUT



DETAIL 'B'
OPTIONAL 3 1/4" UNISTRUT
EXPLODED VIEW



FRONT VIEW
3 1/4" UNISTRUT

SIDE VIEW
3 1/4" UNISTRUT

COLUMN IS A W-FLANGE.
MAXIMUM FLANGE WIDTH IS 16".

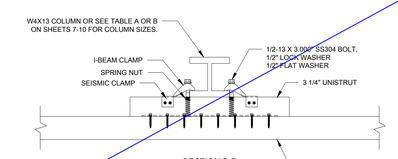
MINIMUM CLAMPS PER SECTION:
2 COLUMN STRUCTURES: 4
3 COLUMN STRUCTURES: 6
INSTALL TORQUE: 40 FT*LBS

MAXIMUM SECTION HEIGHT IS 5'-0"

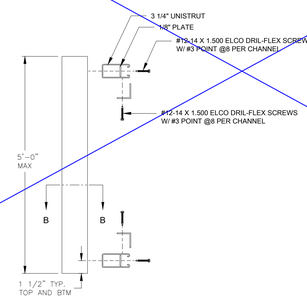
MAXIMUM SECTION WEIGHT
LESSER OF
-12 PSF
-1050 LBS FOR 2
COLUMN STRUCTURES
-1575 LBS FOR 3
COLUMN STRUCTURES

I-BEAM LIMITATIONS
-MIN. FLANGE THICKNESS = 3/16"
-MAX.FLANGE THICKNESS = 3/4"
-IF THE I-BEAM FLANGE THICKNESS IS GREATER THAN SPECIFIED, LONGER BOLTS WILL BE REQUIRED AT THE CUSTOMER'S EXPENSE. MAX LENGTH OF REPLACEMENT BOLT IS 3.5". MUST BE SS304 BOLTS.

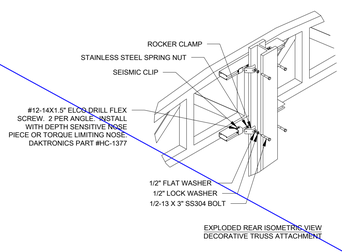
MOUNTING DETAIL 8
DECORATIVE (NONSTRUCTURAL)
TRUSS ATTACHMENT



SECTION B-B



REFER TO DRAWING #4682220, SHEET 4, MOUNTING DETAIL #4 FOR TRUSS FABRICATION DETAILS.



EXPLODED REAR ISOMETRIC VIEW
DECORATIVE TRUSS ATTACHMENT

COLUMN IS A W-FLANGE.
MAXIMUM FLANGE WIDTH IS 16".

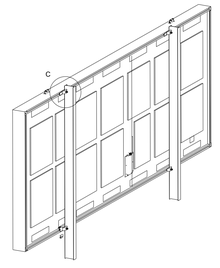
MINIMUM CLAMPS PER SECTION:
2 COLUMN STRUCTURES: 4
3 COLUMN STRUCTURES: 6
INSTALL TORQUE: 40 FT*LBS

MAXIMUM SECTION HEIGHT IS 10'-0"

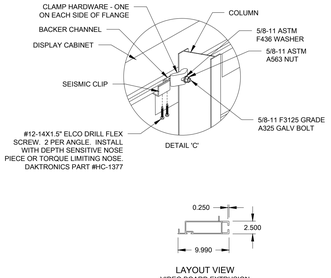
MAXIMUM SECTION WEIGHT
LESSER OF
-12 PSF
-1050 LBS FOR 2
COLUMN STRUCTURES
-1575 LBS FOR 3
COLUMN STRUCTURES

I-BEAM LIMITATIONS
-MIN. FLANGE THICKNESS = 3/16"
-MAX.FLANGE THICKNESS = 3/4"
-IF THE I-BEAM FLANGE THICKNESS IS GREATER THAN SPECIFIED, LONGER BOLTS WILL BE REQUIRED AT THE CUSTOMER'S EXPENSE. REPLACEMENT BOLTS MUST BE 5/8"-11 ASTM F3125 GR. A325 HEAVY HEX, MECHANICALLY GALVANIZED PER ASTM B695 AND A MAX. LENGTH OF 4.50".

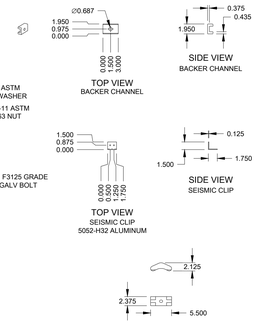
MOUNTING DETAIL 9



ISOMETRIC VIEW



DETAIL 'C'



LAYOUT VIEW
VIDEO BOARD EXTRUSION
(6005A-T61 ALUMINUM
-6061-T6 ALUMINUM
-6351-T6 ALUMINUM)

LAYOUT VIEW
DISPLAY CABINET CLAMP
(6061-T6 ALUMINUM)

DSA PRECHECK DRAWINGS

VECTOR ENGINEERS
WELLS L. HOLMES, S.E.
651 W. GALENA PARK BLVD. STE. 101
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(801) 990-1775
(801) 990-1776 FAX

REGISTERED PROFESSIONAL ENGINEER
WELLS HOLMES
S4203
STRUCTURAL
STATE OF CALIFORNIA

10/07/2021

STRUCTURAL ENGINEER OF RECORD

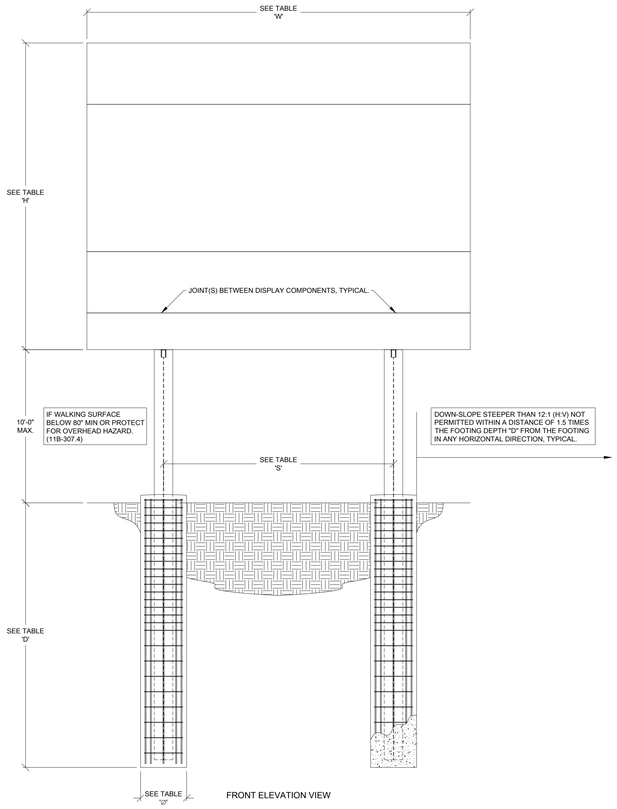
APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-120097 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 10/18/2021

PROJECT-SPECIFIC APPROVALS

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

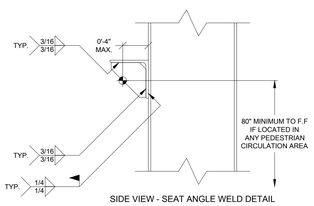
REV	DATE:	ADDED REFERENCE NOTE TO MOUNTING DETAIL 8. REMOVED REV CLOUD.	BY:
02	15 SEP 21		SAE
REV	DATE:	REVISED MAXIMUM SECTION HEIGHT NOTE, MOUNTING DETAIL 9	BY:
01	3 MAY 21		SAE

PROJECT:	2019 CBC DSA PRE-CHECK DRAWINGS		
TITLE:	SHEET 5: MOUNTING DETAILS W/ VIDEO DISPLAY		
DATE:	18 MAY 20	DIM UNITS: INCHES [MILLIMETERS]	SHEET: 5 REV: 02
SCALE:	1/4" = 1'-0"	DO NOT SCALE DRAWING	
DESIGN:	MLEOPOL	JOB NO: P2236	FUNC. TYPE - SIZE: F - 10 - D
DRAWN:	MLEOPOL		4682221

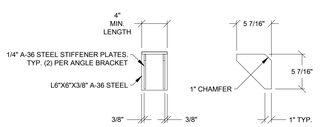


FRONT ELEVATION VIEW

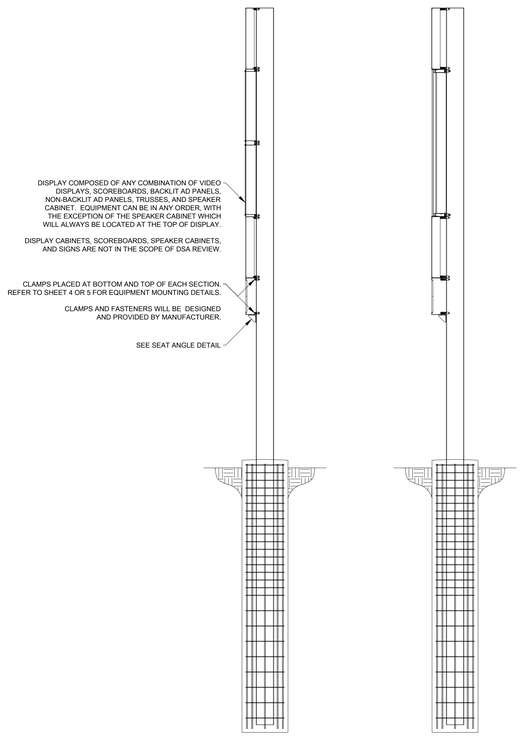
FOUNDATION PLAN VIEW



SIDE VIEW - SEAT ANGLE WELD DETAIL

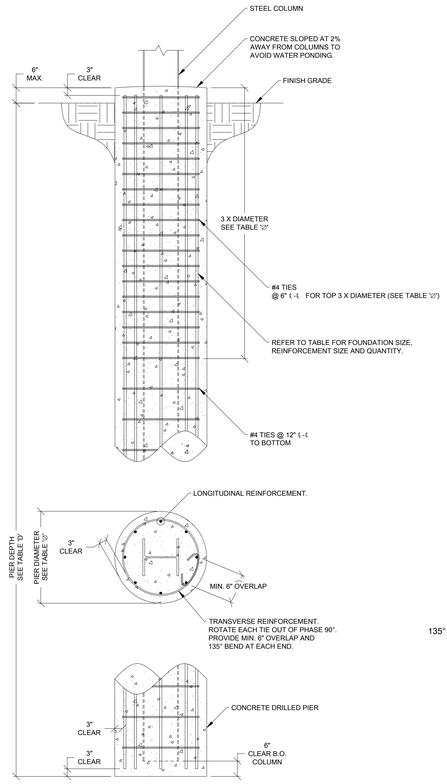


SEAT ANGLE DETAIL
MAXIMUM CAPACITY = 5,000 LBS. PER SEAT
SEAT ANGLE IS REQUIRED AT BOTTOM OF DISPLAY STACKS, TYPICAL AT EACH COLUMN

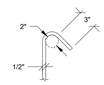


~~SCOREBOARD SIDE ELEVATION VIEW~~
~~SEE SHEET 4 FOR MOUNTING DETAILS~~

VIDEO DISPLAY SIDE ELEVATION VIEW
SEE SHEET 5 FOR MOUNTING DETAILS



CONCRETE DRILLED PIER - SIDE PLAN VIEW
N.T.S.



135° BEND DETAIL FOR #4 REBAR TIE

TABLE A - STANDARD WIND REGIONS (100 MPH)

CHECK OPTION	OVERALL DIMENSIONS			COLUMNS		PIER FOOTINGS			WIND			SEISMIC
	"MAX. HEIGHT 'H' (FT)"	"MAX. WIDTH 'W' (FT)"	MAX. DISPLAY WEIGHT (LBS)	"SPACING 'S' (FT)"	SIZE	"DIAMETER 'Ø' (FT)"	"DEPTH 'D' (FT)"	"LONG. REINF. (QTY - SIZE)"	Kz	Cf	"DESIGN WIND PRESSURE (LBS/SQFT)"	"BASE SHEAR (LBS)"
	~~8.00~~	~~16.00~~	~~2386.00~~	~~10.00~~	~~W8X24~~	~~3~~	~~9.25~~	~~(7) #8~~	~~0.88~~	~~1.73~~	~~28.19~~	~~1680~~
	~~12.00~~	~~16.00~~	~~3154.00~~	~~10.00~~	~~W10X33~~	~~3~~	~~10~~	~~(7) #8~~	~~0.92~~	~~1.71~~	~~29.11~~	~~2380~~
	~~16.00~~	~~16.00~~	~~3922.00~~	~~10.00~~	~~W10X45~~	~~3~~	~~11.5~~	~~(7) #8~~	~~0.95~~	~~1.69~~	~~29.83~~	~~3080~~
	~~20.00~~	~~16.00~~	~~4690.00~~	~~10.00~~	~~W12X58~~	~~3~~	~~13.5~~	~~(7) #8~~	~~0.98~~	~~1.68~~	~~30.58~~	~~4060~~
	~~8.00~~	~~20.00~~	~~2770.00~~	~~12.00~~	~~W12X26~~	~~3~~	~~9~~	~~(7) #8~~	~~0.88~~	~~1.73~~	~~28.19~~	~~1960~~
✓	12.00	20.00	3730.00	12.00	W10X39	3	10.75	(7) #8	0.92	1.69	28.83	2800
	~~16.00~~	~~20.00~~	~~4690.00~~	~~12.00~~	~~W10X49~~	~~3~~	~~12.75~~	~~(7) #8~~	~~0.95~~	~~1.68~~	~~29.61~~	~~3500~~
	~~20.00~~	~~20.00~~	~~5650.00~~	~~12.00~~	~~W12X65~~	~~3~~	~~15.5~~	~~(7) #8~~	~~0.98~~	~~1.67~~	~~30.28~~	~~4620~~
	~~24.00~~	~~20.00~~	~~6610.00~~	~~12.00~~	~~W12X79~~	~~3~~	~~18.25~~	~~(7) #8~~	~~1.01~~	~~1.66~~	~~31.03~~	~~5740~~
	~~12.00~~	~~25.50~~	~~4522.00~~	~~15.00~~	~~W12X40~~	~~3~~	~~11.75~~	~~(7) #8~~	~~0.92~~	~~1.68~~	~~28.55~~	~~3080~~
	~~16.00~~	~~25.50~~	~~5746.00~~	~~15.00~~	~~W12X53~~	~~3~~	~~14.75~~	~~(7) #8~~	~~0.95~~	~~1.66~~	~~29.31~~	~~4200~~
	~~20.00~~	~~25.50~~	~~6970.00~~	~~15.00~~	~~W12X72~~	~~3~~	~~17.75~~	~~(7) #8~~	~~0.98~~	~~1.65~~	~~30.03~~	~~5460~~
	~~24.00~~	~~25.50~~	~~8194.00~~	~~15.00~~	~~W14X90~~	~~3~~	~~21~~	~~(7) #8~~	~~1.01~~	~~1.64~~	~~30.66~~	~~6860~~
	~~28.00~~	~~25.50~~	~~9418.00~~	~~15.00~~	~~W14X109*~~	~~4~~	~~20.25~~	~~(12) #8~~	~~1.03~~	~~1.64~~	~~31.33~~	~~8400~~

TABLE B - SPECIAL WIND REGIONS (130 MPH)

CHECK OPTION	OVERALL DIMENSIONS			COLUMNS		PIER FOOTINGS			WIND			SEISMIC
	"MAX. HEIGHT 'H' (FT)"	"MAX. WIDTH 'W' (FT)"	MAX. DISPLAY WEIGHT (LBS)	"SPACING 'S' (FT)"	SIZE	"DIAMETER 'Ø' (FT)"	"DEPTH 'D' (FT)"	"LONG. REINF. (QTY - SIZE)"	Kz	Cf	"DESIGN WIND PRESSURE (LBS/SQFT)"	"BASE SHEAR (LBS)"
	~~8.00~~	~~16.00~~	~~2386.00~~	~~10.00~~	~~W12X30~~	~~3~~	~~10~~	~~(7) #8~~	~~0.88~~	~~1.73~~	~~47.64~~	~~1820~~
	~~12.00~~	~~16.00~~	~~3154.00~~	~~10.00~~	~~W12X40~~	~~3~~	~~12.25~~	~~(7) #8~~	~~0.92~~	~~1.71~~	~~49.20~~	~~2520~~
	~~16.00~~	~~16.00~~	~~3922.00~~	~~10.00~~	~~W12X53~~	~~3~~	~~15.25~~	~~(7) #8~~	~~0.95~~	~~1.69~~	~~50.41~~	~~3360~~
	~~20.00~~	~~16.00~~	~~4690.00~~	~~10.00~~	~~W12X72~~	~~3~~	~~18.75~~	~~(7) #8~~	~~0.98~~	~~1.68~~	~~51.68~~	~~4480~~
	~~8.00~~	~~20.00~~	~~2770.00~~	~~12.00~~	~~W10X33~~	~~3~~	~~11~~	~~(7) #8~~	~~0.88~~	~~1.73~~	~~47.64~~	~~2100~~
	~~12.00~~	~~20.00~~	~~3730.00~~	~~12.00~~	~~W14X48~~	~~3~~	~~13.75~~	~~(7) #8~~	~~0.92~~	~~1.69~~	~~48.72~~	~~2940~~
	~~16.00~~	~~20.00~~	~~4690.00~~	~~12.00~~	~~W14X61~~	~~3~~	~~17.5~~	~~(7) #8~~	~~0.95~~	~~1.68~~	~~50.04~~	~~3920~~
	~~20.00~~	~~20.00~~	~~5650.00~~	~~12.00~~	~~W14X82*~~	~~3~~	~~21.25~~	~~(7) #8~~	~~0.98~~	~~1.67~~	~~51.17~~	~~5180~~
	~~24.00~~	~~20.00~~	~~6610.00~~	~~12.00~~	~~W14X99~~	~~4~~	~~21~~	~~(12) #8~~	~~1.01~~	~~1.66~~	~~52.44~~	~~6440~~
	~~12.00~~	~~25.50~~	~~4522.00~~	~~15.00~~	~~W14X53~~	~~3~~	~~10~~	~~(7) #8~~	~~0.92~~	~~1.68~~	~~48.25~~	~~3360~~
	~~16.00~~	~~25.50~~	~~5746.00~~	~~15.00~~	~~W16X67~~	~~3~~	~~20.25~~	~~(7) #8~~	~~0.95~~	~~1.66~~	~~49.53~~	~~4480~~
	~~20.00~~	~~25.50~~	~~6970.00~~	~~15.00~~	~~W14X90~~	~~4~~	~~20.5~~	~~(12) #8~~	~~0.98~~	~~1.65~~	~~50.75~~	~~5880~~
	~~24.00~~	~~25.50~~	~~8194.00~~	~~15.00~~	~~W24X117*~~	~~4~~	~~24.25~~	~~(12) #8~~	~~1.01~~	~~1.64~~	~~51.82~~	~~7700~~
	~~28.00~~	~~25.50~~	~~9418.00~~	~~15.00~~	~~W14X145*~~	~~4~~	~~28~~	~~(12) #8~~	~~1.03~~	~~1.64~~	~~52.95~~	~~9660~~

(1) PER ASCE7 CASE B LOADING. CASE B LOADING = (CASE A LOADING) X (1.67). THE PRESSURES HAVE BEEN MULTIPLIED BY 0.6 (ASD LOAD FACTOR).
(2) 0.7V PER ASCE7-16 ASD EQUATIONS.
(3) COLUMN MAY BE SPLICED WITH A PREQUALIFIED CJP WELD.
(*) MAY NEED LONGER BOLTS FOR CLAMP ATTACHMENTS.

REGISTERED PROFESSIONAL ENGINEER WELLS HOLMES S.E. S 6203 STRUCTURAL STATE OF CALIFORNIA

PRE-CHECK (PC) DOCUMENT
10/07/2021
CODE: 2019 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

VECTOR ENGINEERS
WELLS L. HOLMES, S.E.
651 W. GALENA PARK BLVD. STE. 101
DRAPER, UTAH 84020
(801) 990-1775
(801) 990-1776 FAX

REGISTERED PROFESSIONAL ENGINEER WELLS HOLMES S.E. S 6203 STRUCTURAL STATE OF CALIFORNIA

10/07/2021

STRUCTURAL ENGINEER OF RECORD

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-120097 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 10/18/2021

PROJECT-SPECIFIC APPROVALS

PRE-CHECK (PC) DOCUMENT
Code: 2019 CBC
A separate project application for construction is required.

REV	DATE:	REVISED WALKING SURFACE NOTE UNDER FRONT VIEW.	BY:
01	15 SEP 21		SAE

THIS SPACE PROTECTION

PROJECT:	2019 CBC DSA PRE-CHECK DRAWINGS		
TITLE:	SHEET 7: 2-COLUMN STRUCTURE W/ PIER FOUNDATIONS		
DATE:	11 MAY 20	DIM UNITS: INCHES [MILLIMETERS]	SHEET: REV:
SCALE:	1/8" = 1'-0"	DO NOT SCALE DRAWING	7 01
DESIGN:	SEASTMA	JOB NO. P2236	SUBJ. TYPE - SIZE F - 10 - D
DRAWN:	SEASTMA		4682223

Chino Hills HS – 16150 Pomona Rincon Rd., Chino Hills, CA 9

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2019 CBC

Application Number:	**School Name:**	**School District:**
04-121523	Chino Hills HS	Chino Valley USD
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2019 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, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2019 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 **Periodic** – Indicates that a periodic special inspection is required **Test** – Indicates that a test is required	**GE** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. **LOR** – 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 –** Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. **SI** – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	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 3a–3c.** 2202A.1**;** AISI S100-16 Section A3.1 & A3.2, AISI S240-15 Section A3 & A5, AISI S220-15 Sections A4 & A6. * 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.** Buckling restrained braces.	**Test**	**LOR**	Testing and special inspections in accordance with IR 22-4.

	S/A2. HIGH-STRENGTH BOLTS:			
	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;** AISC 360-16 Section A3.3, J3.1, and N3.2; 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, 2204A.2**; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.
☑	**d.** Pretensioned and slip-critical connections.	*	**SI**	**Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2;** AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. * "Continuous" or "Periodic" depends on the tightening method used.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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	S/A3. WELDING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**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 structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
☑	**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 Items 5a.1–4;** AISC 360-16 (and AISC 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 Items 5a.5 & 5a.6;** AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☐	**c.** Inspect welding of stairs and railing systems.	**Periodic**	**SI**	**1705A.2.1**; AISC 360-16 (and AISC 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 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16; 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	**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 Items 5a.1–4;** AISC 360-16 (AISC 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;** AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☐	**c.** Inspect end-welded studs (ASTM A-108) installation (including bend test).	**Periodic**	**SI**	**2213A.2**; AISC 360-16 (AISC 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;** AISC 360-16 (AISC 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 S240-15 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;** AISC 360-16 (AISC 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.

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1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16; 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/A6. NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Ultrasonic	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; ANSI/ASNT CP-189, SNT-TC-1A; AWS D1.1, AWS D1.8; DSA IR 17-2.
☐	**b.** Magnetic Particle	**Test**	**LOR**	**1705A.2.1, 1705A.2.5;** AISC 341-16 J6.2, AISC 360-16 N5.5; ANSI/ASNT CP-189, SNT-TC-1A; 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 joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	**Continuous**	**SI**	**1705A.2.3, Table 1705A.2.3;** AWS D1.1; DSA IR 22-3 for steel joists only. **1705A.2.4;** AWS D1.3 for cold-formed steel trusses.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMNINUM), 2019 CBC

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-16; 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/A8. SPRAY APPLIED FIRE-PROOFING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Examine structural steel surface conditions, inspect application, take samples, measure thickness and verify compliance of all aspects of application with DSA-approved documents.	**Periodic**	**SI**	**1705A.14.**
☐	**b.** Test bond strength.	**Test**	**LOR**	**1705A.14.6.**
☐	**c.** Test density.	**Test**	**LOR**	**1705A.14.5.**

	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A9. ANCHOR BOLTS AND ANCHOR RODS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Anchor Bolts and Anchor Rods	**Test**	**LOR**	Sample and test anchor bolts and anchor rods not readily identifiable per procedures noted in DSA IR 17-11.
☐	**b.** Threaded rod not used for foundation anchorage.	**Test**	**LOR**	Sample and test threaded rods not readily identifiable per procedures noted in DSA IR 17-11.

	Test or Special Inspection	Type	Performed By	Code References and Notes
	S/A10. Other Steel			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.**			

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number:	**School Name:**	**School District:**
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Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests **/** special inspections noted. **Items marked as exempt shall be identified on the approved construction documents**. The project inspector shall verify all construction complies with the approved construction documents.

	SOILS:
☐	1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per CBC Table 1806A.2 and having no geotechnical report 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.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
☐	2. Shallow foundations, etc. 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.

	CONCRETE/MASONRY:
☐	1. 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 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding."
☐	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.
☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1.16. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
☐	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

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	CONCRETE/MASONRY:
☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

	WELDING:
☐	1. Solid-clad and open-mesh 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. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
☐	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
☐	4. Manufactured support frames and curbs using hot rolled or cold-formed 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 as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	5. 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 as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	6. 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 as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category).
☐	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2019 CBC

Application Number:	**School Name:**	**School District:**
04-121523	Chino Hills HS	Chino Valley USD
DSA File Number:	**Increment Number:**	**Date Created:**
		2022-12-14 14:33:33

Name of Architect or Engineer in general responsible charge:

Robert Lavey

Name of Structural Engineer (When structural design has been delegated):

RICK M BYRD

Signature of Architect or Structural Engineer: Date: 12/15/22

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

DSA STAMP

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-121523 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 12/21/2022

DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

Application Number:	**School Name:**	**School District:**
04-121523	Chino Hills HS	Chino Valley USD
DSA File Number:	**Increment Number:**	**Date Created:**
		2022-12-14 14:33:33

1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
2. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
3. Field Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
4. High-Strength Bolt Installation Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

DSA **140**

APPLICATION FOR SUBMITTAL OF POST-APPROVAL DOCUMENT

This application is for submittal of documents, after the initial approval of the project (post-approval documents), that require Division of the State Architect (DSA) review and approval.This form shall be completed by the Design Professional in General Responsible Charge of the project, in accordance with California Code of Regulations, Title 24, Part 1, Sections 4-317, 4-323 and 4-338 and in compliance with DSA IR A-6: Construction Change Document Submittal and Approval Process.

DSA documents referenced within this form are available on the DSA Forms or DSA Publications webpages.

1. SUBMITTAL TYPE: (Is this a resubmittal? Yes ☑ No ☐)

Deferred Submittal	Addendum Number: 001	Revision Number:	CCD Number:	Category A ☐ or B ☐

2. PROJECT INFORMATION:

School District/Owner: Chino Valley Unified School District	DSA File Number: 36 H3
Project Name/School: Chino Hills High School Aquatic Scoreboard Replacement	DSA Application Number 04 121523

3. APPLICANT INFORMATION:

Date Submitted: 08/14/23	Attached Pages? No ☐ Yes ☑ Number of pages? 15		
Firm Name: PBK	Contact Name: Robert Lavey		
Work Email: robert.lavey@pbk.com	Work Phone: (909) 987-0909		
Firm Address: 8163 Rochester Avenue	City: Rancho Cucamonga	State: CA	Zip Code: 91730

4. REASON FOR SUBMITTAL: (Check applicable boxes)

✔ For revision or addendum prior to construction.	For a project currently under construction.

For a project that has a form *DSA 301-N: Notification of Requirement for Certification*, *DSA 301-P: Posted Notification of Requirement for Certification* or a 90-Day Letter issued.

To obtain DSA approval of an existing uncertified building or buildings.

For Category B CCD this is: ☐ a voluntary submittal, ☐ a DSA required submittal (attach DSA notice requiring submission).

5. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE:

Name of the Design Professional In General Responsible Charge: Robert Lavey

Professional License Number: C28020	Discipline: Architect

Design Professional in General Responsible Charge Statement: The attached post-approval documents have been examined by me for design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications. They are acceptable for incorporation into the construction of the project.

Signature: _____

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE

6. CONFIRMATION, DESCRIPTION AND LISTING OF DOCUMENTS:

For addenda, revisions, or CCDs: CHECK THIS BOX ☑ to confirm that *all* post-approval documents have been stamped and signed by the Responsible Design Professional listed on form *DSA 1: Application for Approval of Plans and Specifications* for this project. (For *Deferred Submittals*, refer to *IR A-18: Use of Construction Documents Prepared by Other Professionals,* and *IR A-19: Design Professional's Signature and Seal (Stamp) on Construction Documents*, when applicable, for signature and seal requirements.)

Provide a brief description of construction scope for this post-approval document (attach additional sheets if needed):

Addendum 1: Scoreboard manufacturer swaps.

List of DSA-approved drawings affected by this post-approval document:

See attached Addendum 1 for list of affected drawings.

DSA USE ONLY

SSS CB Date 08/18/2023 [Approved] Disapproved Not Required

Comments: _____

FLS RF Date 07/18/2023 [Approved] Disapproved Not Required

Comments: _____

ACS _____ Date _____ Approved Disapproved [Not Required]

Comments: _____

Returned	DSA STAMP
Date: 08/18/2023	APPROVED DIV. OF THE STATE ARCHITECT APP: 04-121523 INC: REVIEWED FOR SS ☑ FLS ☑ ACS ☐ DATE: 08/18/2023
By: DP	

8163 Rochester Avenue
Rancho Cucamonga, CA 91730
P. +1 909-987-0909
PBK.com

August 14, 2023

TO	:	All Bidders
FROM	:	Robert Lavey
PROJECT	:	Chino Hills High School Aquatic Scoreboard Replacement Project W2105800AR.41
SUBJECT	:	Addendum 1
DSA	:	04-121523 / 36-H3

The following changes, omissions, and/or additions to the Project Manual and/or Drawings shall apply to proposals made for and to the execution of the various parts of the work affected thereby, and all other conditions shall remain the same.

Careful note of the Addendum shall be taken by all parties of interest so that the proper allowances may be made in strict accordance with the Addendum, and that all trades shall be fully advised in the performance of the work which will be required of them.

Bidder shall acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

In case of conflict between Drawings, Project Manual, and this Addendum, this Addendum shall govern.

1. GENERAL

1.1 DSA 103-19: LIST OF STRUCTURAL TEST AND SPECIAL INSPECTION, 2019 CBC.

A. Revised as indicated in the clouded area labeled Delta 1 on the attached revised DSA 103.

DRAWINGS

Architectural

1.2 DRAWING A0.1 - GENERAL NOTES PROJECT DIRECTORY

A. Revised as indicated in the clouded area labeled Delta 1 on the attached revised Drawing A0.1.

1.3 DRAWING A1.3 - DETAILS

A. Revised as indicated in the clouded area labeled Delta 1 on the attached revised Drawing A1.3.

1.4 DRAWING A1.4 - SPECIFICATION

A. Delete drawing in its entirety.

Electrical

1.5 DRAWING E-1 - ELECTRICAL GENERAL NOTES, SYMBOLS & DETAILS

A. Revised as indicated in the clouded area labeled Delta 1 on the attached revised Drawing E-1.

1.6 DRAWING E-2 - ELECTRICAL SITE PLAN

A. Revised as indicated in the clouded area labeled Delta 1 on the attached revised Drawing E-2.

Aquatic Scoreboard

1.7 DRAWING SB.1 - SCOREBOARD DETAILS

A. Add the attached Drawing SB.1 in its entirety.

1.8 DRAWING SB.2 - NEW TIMING SYSTEM NOTES / EQUIPMENT

A. Add the attached Drawing SB.2 in its entirety.

1.9 DRAWING SP.1 - NEW SWIMMING POOL TIMING SYSTEM

A. Add the attached Drawing SP.1 in its entirety.

END OF ADDENDUM 1

Submitted by,

BOB LAVEY
AIA, LEED AP
Managing Partner, Architect

LICENSED ARCHITECT
ROBERT LAVEY
No. C28020
EXP. 1/31/25
STATE OF CALIFORNIA

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121523 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 08/18/2023

RL:BW:br/P4W2105800ARx1-add

Attachments: DSA 103, A0.1, A1.3, E-1, E-2, SB.1, SB.2, SP.1

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2019 CBC

Application Number:	**School Name:**	**School District:**
04-121523	Chino Hills High School	Chino Valley USD
DSA File Number:	**Increment Number:**	**Date Created:**
36 H3		2023-08-15 09:51:26

2019 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, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2019 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 **Periodic** – Indicates that a periodic special inspection is required **Test** – Indicates that a test is required	**GE** – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. **LOR** – 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 –** Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. **SI** – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (OTHER), 2019 CBC

Application Number:
04-121523

School Name:
Chino Hills High School

School District:
Chino Valley USD

DSA File Number:
36 H3

Increment Number:

Date Created:
2023-08-15 09:51:26

	X1. OTHER:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☐	**a.** Load test for identified product(s):	**Test**	**LOR**	**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.** Installation torque for non-HS bolts	**Continuous**	**SI***	Applicable to communication towers 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.
☐	**c.**			

1

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number:	**School Name:**	**School District:**
04-121523	Chino Hills High School	Chino Valley USD
DSA File Number:	**Increment Number:**	**Date Created:**
36 H3		2023-08-15 09:51:26

Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests **/** special inspections noted. **Items marked as exempt shall be identified on the approved construction documents**. The project inspector shall verify all construction complies with the approved construction documents.

	SOILS:
☐	1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per CBC Table 1806A.2 and having no geotechnical report 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.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
☐	2. Shallow foundations, etc. 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.

	CONCRETE/MASONRY:
☐	1. 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 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding."
☐	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.
☐	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1.16. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
☐	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections

Application Number:	**School Name:**	**School District:**
04-121523	Chino Hills High School	Chino Valley USD
DSA File Number:	**Increment Number:**	**Date Created:**
36 H3		2023-08-15 09:51:26

	CONCRETE/MASONRY:
☐	5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

	WELDING:
☐	1. Solid-clad and open-mesh 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. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
☐	2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
☐	3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
☐	4. Manufactured support frames and curbs using hot rolled or cold-formed 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 as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	5. 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 as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
☐	6. 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 as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category).
☐	7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2019 CBC

Application Number:
04-121523

School Name:
Chino Hills High School

School District:
Chino Valley USD

DSA File Number:
36 H3

Increment Number:

Date Created:
2023-08-15 09:51:26

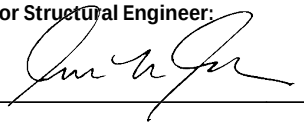
Name of Architect or Engineer in general responsible charge:

Robert Lavey

Name of Structural Engineer (When structural design has been delegated):

RICK M BYRD S.E.

Signature of Architect or Structural Engineer:



Date:

8-16-2023

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

DSA STAMP

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121523 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 08/18/2023

DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

Application Number:	School Name:	School District:
04-121523	Chino Hills High School	Chino Valley USD
DSA File Number:	**Increment Number:**	**Date Created:**
36 H3		2023-08-15 09:51:26

AQUATIC SCOREBOARD REPLACEMENT - CHINO HILLS HIGH SCHOOL
CHINO VALLEY UNIFIED SCHOOL DISTRICT
16150 POMONA RINCON ROAD, CHINO HILLS, CA 91709

GENERAL NOTES

1. THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

2. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.

3. THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF WLC ARCHITECTS, INC., AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF WLC ARCHITECTS, INC.

4. THE WORK SHOWN ON THESE DRAWINGS AS EXISTING CONDITIONS WAS PREPARED FROM INFORMATION FURNISHED BY THE OWNER. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, WLC ARCHITECTS, INC. IS NOT RESPONSIBLE FOR THE ACCURACY OR ADEQUACY OF ANY WORK SHOWN AS EXISTING NOR IS WLC ARCHITECTS, INC. RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

5. EACH BIDDER SHALL POSSESS AT THE TIME OF BID A CLASS B OR THE APPROPRIATE CLASS C CONTRACTOR'S LICENSE PURSUANT TO PUBLIC CONTRACT CODE SECTION 3300 AND BUSINESS AND PROFESSIONS CODE SECTION 7028.15. THE SUCCESSFUL BIDDER MUST MAINTAIN THE LICENSE THROUGHOUT THE DURATION OF THIS CONTRACT.

6. FIRE SAFETY DURING CONSTRUCTION

   A. GENERAL: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9, CHAPTER 5 AND CHAPTER 33.

   B. ACCESS ROADS: FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33, SECTION 3310.

   C. WATER SUPPLY: WATER MAINS AND HYDRANTS SHALL BE OPERATIONAL IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33,SECTION 3312.

   D. BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIREFIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS, OR FIRE APPLIANCES.

   E. ALTERATIONS OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33.

   F. DEMOLITION OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33.

   G. FIRE WATCH: MAINTAIN FIRE WATCH WHEN REQUIRED BY THE BUILDING OFFICIAL AND WHEN EXISTING FIRE PROTECTION SYSTEMS ARE SHUT DOWN FOR ALTERATIONS IN ACCORDANCE WITH CHAPTER 33, SECTION 3304.5. FIRE WATCH SHALL REMAIN IN EFFECT UNTIL EXISTING FIRE PROTECTION SYSTEMS ARE RETURNED TO SERVICE OR AS ALLOWED BY THE BUILDING OFFICIAL.

7. INSPECTOR OF RECORD REQUIREMENTS

   A. ONE OR MORE INSPECTORS EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS WILL BE ASSIGNED TO THE WORK. THE INSPECTOR'S DUTIES ARE SPECIFICALLY DEFINED IN SECTION 4-342 OF SAID TITLE 24, PART 1 AND IN ADDITION SHALL BE AS STIPULATED IN INTERPRETATION OF REGULATION DOCUMENT IR A-8.

   B. INSPECTOR SHALL BE CERTIFIED AS A CLASS 3 INSPECTOR THROUGH THE DIVISION OF THE STATE ARCHITECT INSPECTOR EXAMINATION PROGRAM. INSPECTOR SHALL ALSO BE SPECIFICALLY APPROVED BY THE DIVISION OF THE STATE ARCHITECT FOR THIS PROJECT AT LEAST 10 DAYS PRIOR TO THE START OF ANY WORK FOR THIS PROJECT.

8. ALL WORK SHOWN ON THESE DRAWINGS SHALL COMPLY WITH THE REQUIREMENTS OF 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

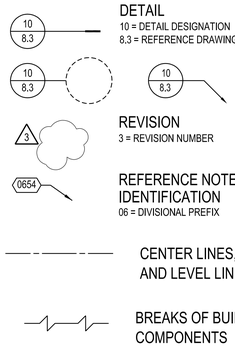
9. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY TITLE 24, CCR, PART 1, SECTION 4-338.

10. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS, AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

11. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ADDITION, ALTERATION OR RECONSTRUCTION IS IN COMPLIANCE WITH THE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT IDENTIFIED BY THE CONTRACT DOCUMENTS WHEREIN THE FINAL WORK WOULD NOT COMPLY WITH THE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ARCHITECT OF THE CONDITION IN WRITING. NECESSARY INFORMATION REQUIRED TO CORRECT THE CONDITIONS ENCOUNTERED WILL BE ISSUED BY THE ARCHITECT. A CHANGE ORDER MAY BE ISSUED TO ADJUST THE CONTRACT SUM OR TIME COMMENSURATE WITH THE AMOUNT OF ADDITIONAL WORK REQUIRED, IF ANY. A CONSTRUCTION CHANGE DOCUMENT SHALL BE APPROVED BY THE DIVISION OF THE STATE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK REQUIRED BY THE CHANGE ORDER. TITLE 24, CCR, PART 1, SECTION 4-317(c)

12. DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

DRAFTING SYMBOL LEGEND



DESIGN LOADS

WIND DESIGN"
1. BASIC WIND SPEED: V = 95 M.P.H., Vasd = 73.6 M.P.H.
2. RISK CATEGORY = II
3. WIND EXPOSURE = C

SEISMIC DESIGN:
RISK CATEGORY = II
SEISMIC IMPORTANCE FACTOR (Ie) = 1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS:
Ss: 1.88
S1: 0.665
SITE CLASS = D
STRUCTURAL RESPONSE COEFFICIENTS:
Sds: 1.504
Sd1: 0.753
SEISMIC DESIGN CATEGORY = D

LATERAL BEARING PRESSURE = 150 PSF/FT

GOVERNING CODES

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1

2019 CALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2 (2018 INTERNATIONAL BUILDING CODE (IBC) W/ CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3 (2017 NATIONAL ELECTRIC CODE (NEC) W/ CALIFORNIA AMENDMENTS)

2019 CALIFORNIA MECHANICAL CODE (CMC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 4 (2018 UNIFORM MECHANICAL CODE (UMC) W/ CALIFORNIA AMENDMENTS)

2019 CALIFORNIA PLUMBING CODE (CPC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 5 (2018 UNIFORM PLUMBING CODE (UPC) W/ CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ENERGY CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6

2019 CALIFORNIA HISTORICAL BUILDING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 8

2019 CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9 (2018 INTERNATIONAL FIRE CODE (IFC) W/ CALIFORNIA AMENDMENTS)

2019 CALIFORNIA EXISTING BUILDING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 10 (2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC) W/ CALIFORNIA AMENDMENTS)

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 11

2019 CALIFORNIA REFERENCED STANDARDS CODE -CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12 1990 STATE FIRE MARSHAL REGULATIONS (AS AMENDED TO DATE) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19

CALIFORNIA ELEVATOR SAFETY CODE, CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 8 (AS AMENDED TO DATE)

2010 AMERICANS WITH DISABILITY ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN (ADAS)

APPLICABLE NFPA , UL AND ICC STANDARDS

NFPA 13	-	AUTOMATIC SPRINKLER SYSTEMS, 2016 EDITION
NFPA 14	-	STANDPIPE SYSTEMS, 2016 EDITION
NFPA 17	-	DRY CHEMICAL EXTINGUISHING SYSTEMS, 2017 EDITION
NFPA 17A	-	WET CHEMICAL SYSTEMS, 2017 EDITION
NFPA 20	-	STATIONARY PUMPS, 2016 EDITION
NFPA 24	-	PRIVATE FIRE MAINS, 2016 EDITION
NFPA 25	-	WATER BASED FIRE PROTECTION SYSTEMS, 2013 EDITION
NFPA 72	-	NATIONAL FIRE ALARM CODE, 2016 EDITION
NFPA 80	-	FIRE DOORS AND OTHER OPENING PROTECTIVES, 2016 EDITION
NFPA 92	-	STANDARD FOR SMOKE CONTROL SYSTEMS, 2015 EDITION
NFPA 253	-	CRITICAL RADIANT FLUX OF FLOOR COVERINGS, 2015 EDITION
NFPA 2001	-	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2015 EDITION
ICC 300	-	ICC STANDARDS FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS, 2017 EDITION
UL 300	-	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL RESTAURANT COOKING AREAS, 2005 EDITION W/ REVISIONS THRU 2014
UL 464	-	AUDIBLE SIGNAL APPLIANCES, 2003 EDITION
UL 521	-	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION W/ REVISIONS THRU JULY 30, 2005

NOTE: ALL NFPA STANDARDS AS LISTED ARE TO CONFORM TO THE EDITION AS LISTED WITH THE LATEST CALIFORNIA AMENDMENTS. REFERENCE THE 2019 CBC, TITLE 24, PART 2 - CHAPTER 35 FOR ADDITIONAL APPLICABLE NFPA, UL. STANDARDS AND ANY CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

PROJECT TEAM

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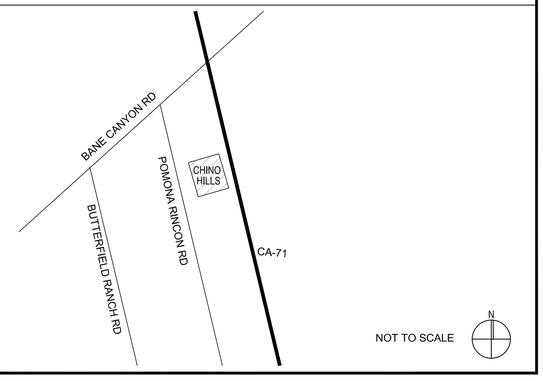
DRAWING REF NO	DESCRIPTION	DRAWING REF NO	DESCRIPTION
	ARCHITECTURAL		AQUATIC SCOREBOARD
A0.1	GENERAL NOTES / PROJECT DIRECTORY	SB.1	SCOREBOARD DETAILS
A1.1	SITE PLAN	SB.2	NEW TIMING SYSTEM NOTES / EQUIPMENT AND DETAILS
A1.2	ENLARGED SITE PLAN & ELEVATIONS	SP.1	NEW SWIMMING POOL TIMING SYSTEM
A1.3	DETAILS		
	1	1	
	ELECTRICAL		
E-1	ELECTRICAL GENERAL NOTES, SYMBOLS & DETAILS		
E-2	ELECTRICAL SITE PLAN		
	TOTAL: 9 PAGES 1		

SCOPE OF WORK DESCRIPTION

THE SCOPE OF THE WORK AS STATED BELOW DOES NOT CONSTITUTE A DETAILED AND FULL EXPLANATION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

REPLACEMENT OF AQUATIC SCOREBOARD.

VICINITY MAP



APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121523 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 08/18/2023

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CHINO HILLS HIGH SCHOOL
AQUATIC SCOREBOARD REPLACEMENT

PROJECT ADDRESS:
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DSA APPL NO.: 04-121523 DSA FILE NO.: 36-H3

Consultant

Architect

LICENSED ARCHITECT
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C-20020
EXP. 01/31/25
STATE OF CALIFORNIA

CLIENT
Chino Valley Unified School District

DATE	PROJECT NUMBER
5/19/2023	W2105800AR

REVISIONS

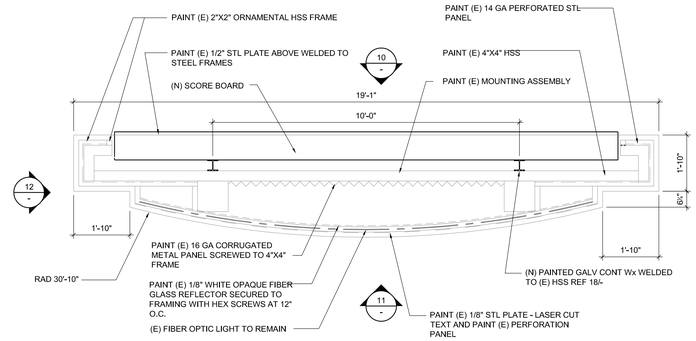
No.	Description	Date
1	ADDENDUM #1	2023.5.7.19

100% CD SUBMITTAL

GENERAL NOTES & PROJECT DIRECTORY

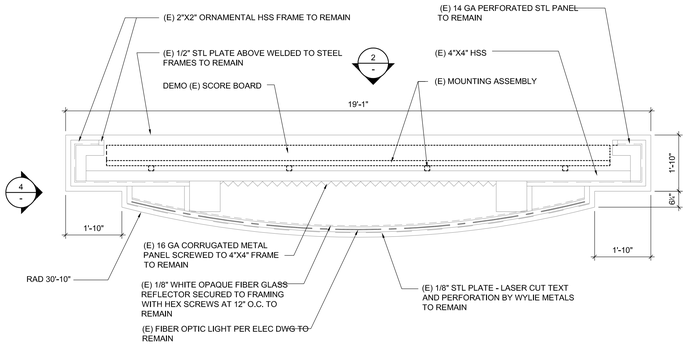
A0.1

0" 1"



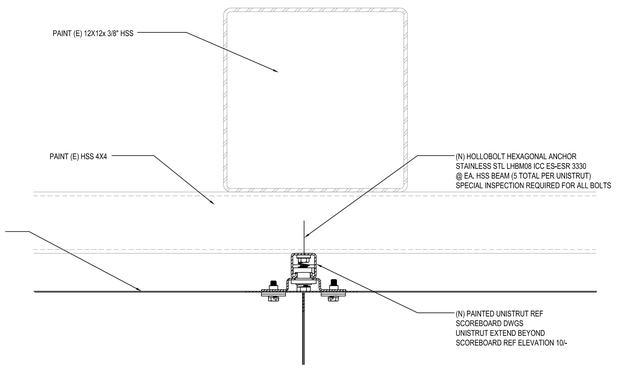
FILE/CSI NUMBER: FILE NAME | REVISION DATE: 00/00/2005 | JOB NUMBER: JOB NUMBER

21	17	SCORE BOARD PLAN VIEW - NEW	1/2"=1'-0"



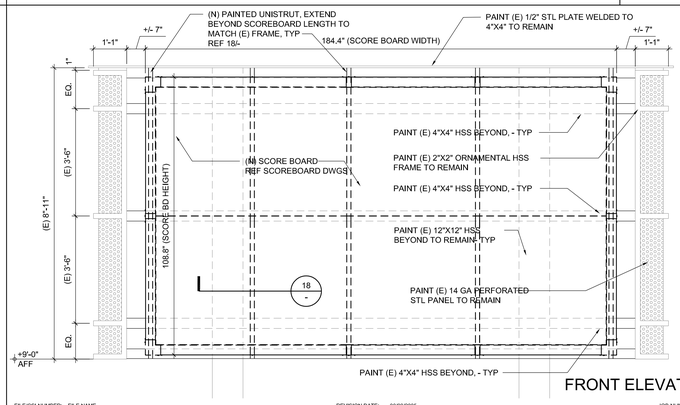
FILE/CSI NUMBER: FILE NAME | REVISION DATE: 00/00/2005 | JOB NUMBER: JOB NUMBER

	9	SCORE BOARD DEMO PLAN VIEW	1/2"=1'-0"



FILE/CSI NUMBER: | REVISION DATE: 01/2/00 00003 06/02/00 | JOB NUMBER: 00/0/000

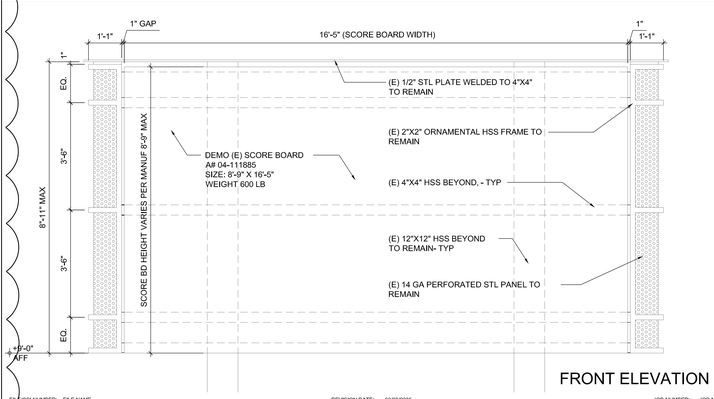
	18	SCOREBOARD MOUNTING	3"=1'-0"



FRONT ELEVATION

FILE/CSI NUMBER: FILE NAME | REVISION DATE: 00/00/2005 | JOB NUMBER: JOB NUMBER

	10	SCOREBOARD ELEVATION - NEW	1/2"=1'-0"



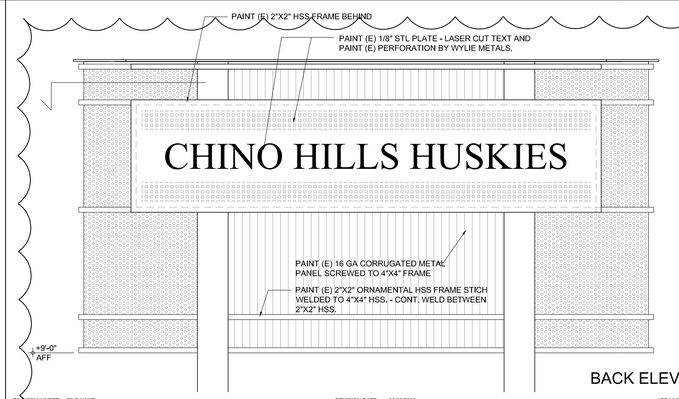
FRONT ELEVATION

FILE/CSI NUMBER: FILE NAME | REVISION DATE: 00/00/2005 | JOB NUMBER: JOB NUMBER

	2	SCOREBOARD ELEVATION - DEMO	1/2"=1'-0"

CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION, EXCAVATION AND IMPROVEMENT. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN TO BE PROTECTED HEREON AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN HEREON.

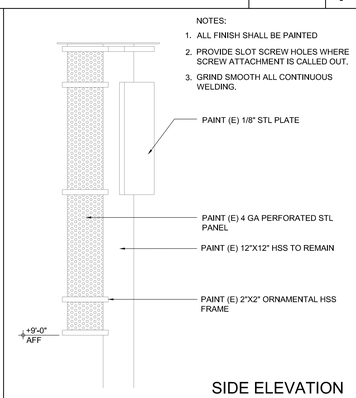
GENERAL NOTES



BACK ELEVATION

FILE/CSI NUMBER: FILE NAME | REVISION DATE: 00/00/2005 | JOB NUMBER: JOB NUMBER

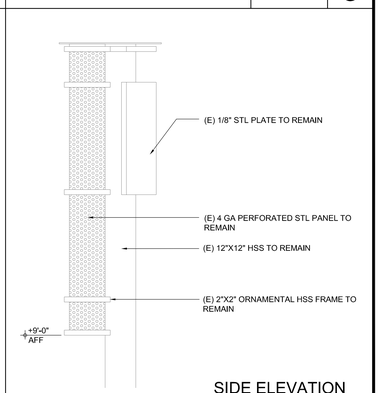
	11	SCOREBOARD ELEVATION - NEW	1/2"=1'-0"



SIDE ELEVATION

FILE/CSI NUMBER: FILE NUMBER | REVISION DATE: 00/00/2004 | JOB NUMBER: JOB NUMBER

	12	SCOREBOARD ELEVATION	1/2"=1'-0"



SIDE ELEVATION

FILE/CSI NUMBER: FILE NUMBER | REVISION DATE: 00/00/2004 | JOB NUMBER: JOB NUMBER

	4	SCOREBOARD ELEVATION - DEMO	1/2"=1'-0"

16	8	3	

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APP: 04-121523 INC:
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CHINO HILLS HIGH SCHOOL
AQUATIC SCOREBOARD REPLACEMENT

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DSA APPL NO.: 04-121523 DSA FILE NO.: 36-H3

Consultant

Architect

LICENSED ARCHITECT
ROBERT DAVEY
EXPIRES 08/31/2024
STATE OF CALIFORNIA

CLIENT
Chino Valley Unified School District

DATE	PROJECT NUMBER
5/19/2023	W2105800AR

REVISIONS

No.	Description	Date
1	ADDENDUM #1	2023 / 5 / 19

100% CD SUBMITTAL

DETAILS

A1.3

GENERAL NOTES

1. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS AND SERVICES REQUIRED FOR THIS COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEMS AS INDICATED AND SPECIFIED. ALL WORK SHALL BE NEW UNLESS NOTED OR SHOWN OTHERWISE.
2. ALL ELECTRICAL EQUIPMENT MATERIAL AND DETAILS OF INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST REVISIONS OF THE NATIONAL ELECTRICAL CODE OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, OF THE STATE OF CALIFORNIA TITLE 24, BASIC ELECTRICAL REGULATIONS OF THE STATE FIRE MARSHALL AND OTHER APPLICABLE CODES. NOTHING IN THE PLANS OR THESE SPECIFICATIONS SHALL BE CONSTRUED AS PERMITTING WORK NOT CONFORMING TO THE MOST STRINGENT OF THE APPLICABLE CODES.
3. THE BIDDER SHALL VISIT THE SITE AND MAKE A SURVEY OF EXISTING CONDITIONS WHICH MAY AFFECT OR BE AFFECTED BY THE WORK UNDER THIS SECTION. REFERENCE MADE IN THE SPECIFICATIONS OR ON THE DRAWINGS TO EXISTING WORK OR CORRECTNESS OF WAYS AND MEANS OF PERFORMING SHALL BE SUBJECT TO VERIFICATIONS BY THE CONTRACTOR IN HIS SURVEY AND ON THE PROGRESS OF THE WORK.
4. WIRE SHALL BE COPPER TYPE THWN-2 OR XHHW-2. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS NOTED OTHERWISE. WIRES SMALLER THAN #6 AWG SHALL BE SOLID AND #6 AWG AND LARGE SHALL BE STRANDED.
5. SPLICES IN #10 AWG AND SMALLER CONDUCTORS SHALL BE MADE WITH CONICAL SHAPED SPRING STEEL CONNECTORS PLATED FOR CORROSION PROTECTION. CONNECTORS MAY HAVE AN INSULATING, SEMI-RIGID OUTER SHELL. TWIST ON CONNECTORS OF PHENOLIC COMPOUND OR CRIMP-TYPE CONNECTIONS SHALL NOT BE USED.
6. WHEREVER CONDUCTORS ARE SPLICED OR TERMINATED IN A JUNCTION OR PULLBOX THEY SHALL BE MARKED WITH THEIR CIRCUIT NUMBER USING "BRADY" ADHESIVE MARKERS.
7. ALL EXPOSED EXTERIOR CONDUIT SHALL BE GALVANIZED RIGID CONDUIT (GRC). ALL UNDERGROUND COUIT SHALL BE PVC SCH 40.
8. FLEXIBLE STEEL CONDUIT SHALL BE GALVANIZED WITH FLEXIBLE OR CADMIUM-PLATED CONNECTORS OF THE TWIST-IN TYPE. FLEXIBLE CONDUIT SHALL ONLY BE USED AS APPROVED BY THE ENGINEER.
9. ALL EMPTY CONDUITS SHALL HAVE A 1/8" DIAMETER NYLON PULL CORD UNLESS OTHERWISE SPECIFIED.
10. ALL CONDUITS RUN EXPOSED SHALL BE INSTALLED PARALLEL OR AT RIGHT ANGLES TO BUILDING CONSTRUCTION OR METAL STRUCTURE.
11. BOXES SHALL BE GALVANIZED OR SHERARDIZED ONE PIECE PRESSED STEEL KNOCKOUT TYPE. MINIMUM SIZE BOX SHALL BE 4" BY 1 1/2" DEEP UNLESS OTHERWISE SPECIFIED OR INDICATED. BOXES SHALL HAVE PLASTER RINGS AS REQUIRED.
12. WIRING INSTALLED CONCEALED ABOVE GROUND IN DRY PLACES NOT IN CONCRETE WHERE NOT SUBJECT TO MECHANICAL DAMAGE SHALL BE IN EMT OR RIGID STEEL CONDUIT.
13. IN PANELS, PULLBOXES, OUTLET BOXES, GUTTERS, ETC., CONDUCTOR SHALL BE TIED WITH PLASTIC TIES, NEATLY FANNED OUT AND TAGGED WITH ADHESIVE MARKERS WHICH ARE CLEARLY MARKED WITH CIRCUIT NUMBERS, ALL IN AN APPROVED WORKMANLIKE MANNER.
14. ALL ELECTRICAL EQUIPMENT SHALL BE EMBRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE OF 20% OF ITS OPERATING WEIGHT ACTING IN ANY DIRECTION. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ELECTRICAL ENGINEER.
15. FINAL INSPECTION AND ACCEPTANCE: AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, THE PROJECT INSPECTOR WILL INSPECT THE WORK. CONTRACTOR SHALL PROVIDE COMPETENT PERSONAL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM, TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.
16. THE CONTRACTOR SHALL FURNISH ONE (1) YEAR WRITTEN GUARANTEE ON MATERIALS AND WORKMANSHIP, UNLESS MORE RESTRICTIVE WARRANTIES ARE NOTED IN SPECIFIED SECTIONS, FROM DATE OF ACCEPTANCE.
17. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF RECORD DRAWINGS AND AFTER COMPLETION OF HIS WORK TURN THEM OVER TO THE ENGINEER/OWNER.
18. ALL ELECTRICAL EQUIPMENTS SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.
19. ALL UNDERGROUND CONDUITS SHALL BE ENCASED IN SLURRY CONCRETE.
20. EXACT LOCATION OF ALL EQUIPMENT SHALL BE AS INDICATED ON THE ARCHITECTURAL PLANS.
21. UNLESS OTHERWISE NOTED, MOUNTING HEIGHTS INDICATED ON ELECTRICAL OUTLETS ARE FROM FINISHED FLOOR TO CENTER OF OUTLETS.
22. NO CONDUIT SHALL BE RUN HORIZONTALLY IN CONCRETE FLOOR SLABS.
23. ALL FINAL CONNECTIONS TO OWNER-FURNISHED EQUIPMENT SHALL BE MADE BY THIS CONTRACTOR.

MEP EQUIPMENT ANCHOARAGE NOTE

ALL MECHANICAL, PLUMBINNG, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWNG COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30:

A. ALL PERMANENT EQUIPMENT AND COMPONENTS
B. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
C. TEMPORARY, MOVABLE EQUIPMENT THAT IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIREDTO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRUBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.25 AND 1617A.1.26..

THE METHOD OF SHOWNG BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (e.g., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☑ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#) #_____.

9. PROOF LOAD TEST FOR EXPANSION, TYPE ANCHOR BOLTS (BOLTS MUST HAVE I.C.B.O. APPROVAL).

ALL CONCRETE ANCHOR BOLT OF THE EXPANSION TYPE (LOADED IN EITHER PULLOUT OR SHEAR) SHALL HAVE 50 PERCENT OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT) PROOF TESTED IN TENSION TO TWCE THE ALLOWABLE TENSION LOAD. IF THERE ARE ANY FAILURES, THE IMMEDIATELY ADJACENT BOLTS MUST THEN ALSO BE TESTED.

TYPE OF MATERIALS	TYPE OF TEST	BOLT DIAMETER 3/8"	1/2"	5/8"	3/4"
HARD ROCK CONCRETE	DIRECT TORQUE	PULL-TENSION,LBS.	1300	2000	2900	4300
		WRENCH-TORQUE,FT.LBS.	25	50	110	150
LT.WT. CONCRETE	DIRECT TORQUE	PULL-TENSION,LBS.	970	1400	1950	2590
		WRENCH-TORQUE,FT.LBS.		20	35	75

10. ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR OTHERS AND THOSE SHOWN ON THE RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE OWNER BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PERSUANT THERETO AGREES TO ASSUME LIABILITY AND TO HOLD THE ENGINEER HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE ENGINEER; NOT INDICATED ON THE PUBLIC RECORDS EXAMINED; LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARRING WORK.
11. ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH EXISTING FINISH.
12. THE CONTRACTOR SHALL NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE FIELD VERIFIED.
13. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER THE SHUT-DOWN SCHEDULE AND TIME REQUIRED PRIOR TO DEMOLITION AND INSTALLATION OF NEW CONDUIT, WIRE AND PANELBOARDS FROM THE EXISTING SYSTEM. THE SHUT-DOWN SHALL BE SCHEDULED IN SUCH A MANNER TO MINIMIZE INTERRUPTION OF REGULAR ACTIVITIES. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL PREMIUM TIME REQUIRED FOR THE NEW CONNECTIONS. (NO EXCEPTION WILL BE TAKEN DURING NORMAL BUSINESS HOURS).
14. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR ALL TRENCHING, BACKFILLING SAW CUTTING AND REFINISHING OF SURFACES. FINISHES TO MATCH EXISTING. (NEW EXPOSED CONDUIT TO BE PAINTED TO MATCH EXISTING FINISH).

APPLICABLE CODES

1. 2022 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2. 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2022 CALIFORNIA AMENDMENTS)
3. 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
4. 2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2021 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
5. 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5 TITLE 24 C.C.R. (2021 UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
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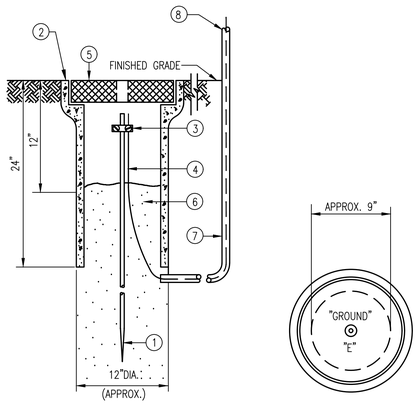
8. 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
9. 2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
10. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
———	CONDUIT RUN, CONCEALED IN CEILING, WALLS OR BELOW ROOF. CONDUIT MAY BE CONCEALED BELOW SLAB AS PERMITTED BY ENGINEER.
#10	CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 WIRES CONTAINED THEREIN. GROUND WIRE IS REQUIRED BUT NO INDICATED. TWO #12 ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12.
B-1,3,5-7	CONDUIT HOME RUN TO PANELBOARD. LETTER AND NUMERALS INDICATES ELECTRICAL PANEL AND CIRCUIT NUMBER. CIRCUITS 1,3,5 WITH SHARED NEUTRAL AND CIRCUIT 7 WITH DEDICATED NEUTRAL.
#10	CONDUIT HOMERUM FOR ISOLATED GROUND RECEPTACLE (2#12 & 1#10 GROUND).
C.O.	CONDUIT ONLY, WITH PULL ROPE.
	DUPLEX GROUNDING TYPE RECEPTACLE WALL MOUNTED (+18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED).
	DOUBLE DUPLEX GROUNDING TYPE RECEPTACLE, WALL MOUNTED (+18" ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED).
GFI	"GFI" ADJACENT TO SYMBOL INDICATES GROUND FAULT INTERRUPTING TYPE RECEPTACLE
	JUNCTION BOX
	BRANCH CIRCUIT PANEL, MOUNTING AS SHOWN ON SCHEDULES.
	DISCONNECT SWITCH
Sm	MOTOR RATED SWITCH
	PANEL DESIGNATION.
CTB	COMMUNICATIONS TERMINAL BOARD.
MDF	MAIN DISTRIBUTION FRAME.
IDF	INTERMEDIATE DISTRIBUTION FRAME
(E)	EXISTING EQUIPMENT TO REMAIN
(R)	REMOVE EQUIPMENT
(RR)	REMOVE EQUIPMENT AND RELOCATE TO NEW LOCATION
(ER)	NEW LOCATION OF EXISTING RELOCATED EQUIPMENT. EXTEND CONDUIT AND RE-CONNECT TO EXISTING CIRCUIT OR SYSTEM FOR COMPLETE AND OPERABLE SYSTEM.
(N)	NEW EQUIPMENT AND CONDUIT



SPECIAL NOTES:

1. #4 REBAR OR 1/2" ø X 10'-0" COPPER CLAD DRIVEN GROUND ROD
2. PRECAST GROUND ELECTRODE ENCLOSURE
3. GROUND CONNECTOR
4. #6(MIN.)BARE COPER GROUNDING CONDUCTOR
5. STEEL TRAFFIC TYPE COVER WITH HOOK HOLE AND ETCHED WORDS "GROUND"
6. SAND BACKFILL 1/2 CUBIC YARD MINIMUM
7. SCHEDULE 40 PVC CONDUIT WITH BARE COPPER GROUNDING CABLE
8. CONNECT TO METAL PART

GROUND WELL

NTS | 1

EXISTING

VOLTAGE 120/208 3ø, 4W. PANEL SP LOCATION POOL EQUIPMENT ROOM
BUS AMPS 225 TOP FEED ☐ SURFACE MTG.☒
MAIN BREAKER ☒ 225 A.F. 150 A.T. BOTTOM FEED ☒ FLUSH MTG. ☐
LUGS ONLY ☐ REMARKS

	DESCRIPTION	VOLT-AMPS A	B	C	LC L	OUTLETS L	R	M	CB	CKT	BUS A	B	C	CKT	CB	OUTLETS L	R	M	LC	VOLT-AMPS A	B	C	DESCRIPTION	
(E)	UNDER WATER LIGHTS	140							20/1	1				2	20/1			1		1000			SCOREBOARD	(N)
	UNDER WATER LIGHTS		140						20/1	3				4	20/1			1			1000		SCOREBOARD	(E)
	UNDER WATER LIGHTS			140					20/1	5				6	20/1							720	TIMER SYSTEM RECEPT	
	UNDER WATER LIGHTS	140							20/1	7				8	20/1					720			TIMER SYSTEM RECEPT	
	UNDER WATER LIGHTS		140						20/1	9				10	20/1						500		SUMP PUMP	
	UNDER WATER LIGHTS			140					20/1	11				12	20/1							500	CHLORINE	
	UNDER WATER LIGHTS	140							20/1	13				14	20/1					1200			FILTER AFC	
	UNDER WATER LIGHTS		140						20/1	15				16	20/1						1200		PRESSURE AMP SYSTEM	
	UNDER WATER LIGHTS			140					20/1	17				18	20/1							1200	WATER CHEM CONTROL	
	UNDER WATER LIGHTS	140							20/1	19				20	20/1					360			WATER CHEM RELAY	
	UNDER WATER LIGHTS		140						20/1	21				22	20/1						360		CIRC PUMP INTERCON	
	UNDER WATER LIGHTS			140					20/1	23				24	20/1							360	CIRC PUMP METER CONTROL	
	UNDER WATER LIGHTS	140							20/1	25				26	20/1					1440			HEATER IGNITOR/ FAN	
	UNDER WATER LIGHTS		140						20/1	27				28	30/3						2160		HEATER RE-CIRC PUMP	
	UNDER WATER LIGHTS			140					20/1	29				30	20/1			1				1000	SCOREBOARD	(N)*
	UNDER WATER LIGHTS	140							20/1	31				32	20/1						1440		HEATER IGNITOR/ FAN	(E)
	SUMP PUMP		830						20/1	33				34	30/3						2160		HEATER RE-CIRC PUMP	
	SPARE								20/1	35				36	20/1			1				1000	SCOREBOARD	(N)*
	SPARE								20/1	37				38	20/1						960		CHEMICAL FEEDS	(E)
	SPARE								20/1	39				40	30/2							1920	CO2 SYSTEM	
	SPARE									41				42	–							1920	–	
	SUB TOTALS	840	1530	700																7120	9180	6700		SUB TOTALS

CONN. PHASE TOTAL: A 7960 B 10710 C 7400 ; CONN. PANEL TOTAL 26070 VA; MAX. CONN. LINE CURRENT 89 AMPS
(KVA) PANEL TOTAL 26.07 + L.C.L. (.25) 0.00 = 26.07 KVA; BALANCED CURRENT 72 AMPS; DESIGN LOAD KVA

* NOTE: REMOVE EXISTING CIRCUIT BREAKER AND INSTALL NEW CIRCUIT BREAKER TO MATCH EXISTING AIC RATING.

APPROVED
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APP: 04-121523 INC:
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CHINO HILLS HIGH SCHOOL
SCOREBOARDS REPLACEMENT

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DATE	PROJECT NUMBER
12/16/2022	W2105800AR

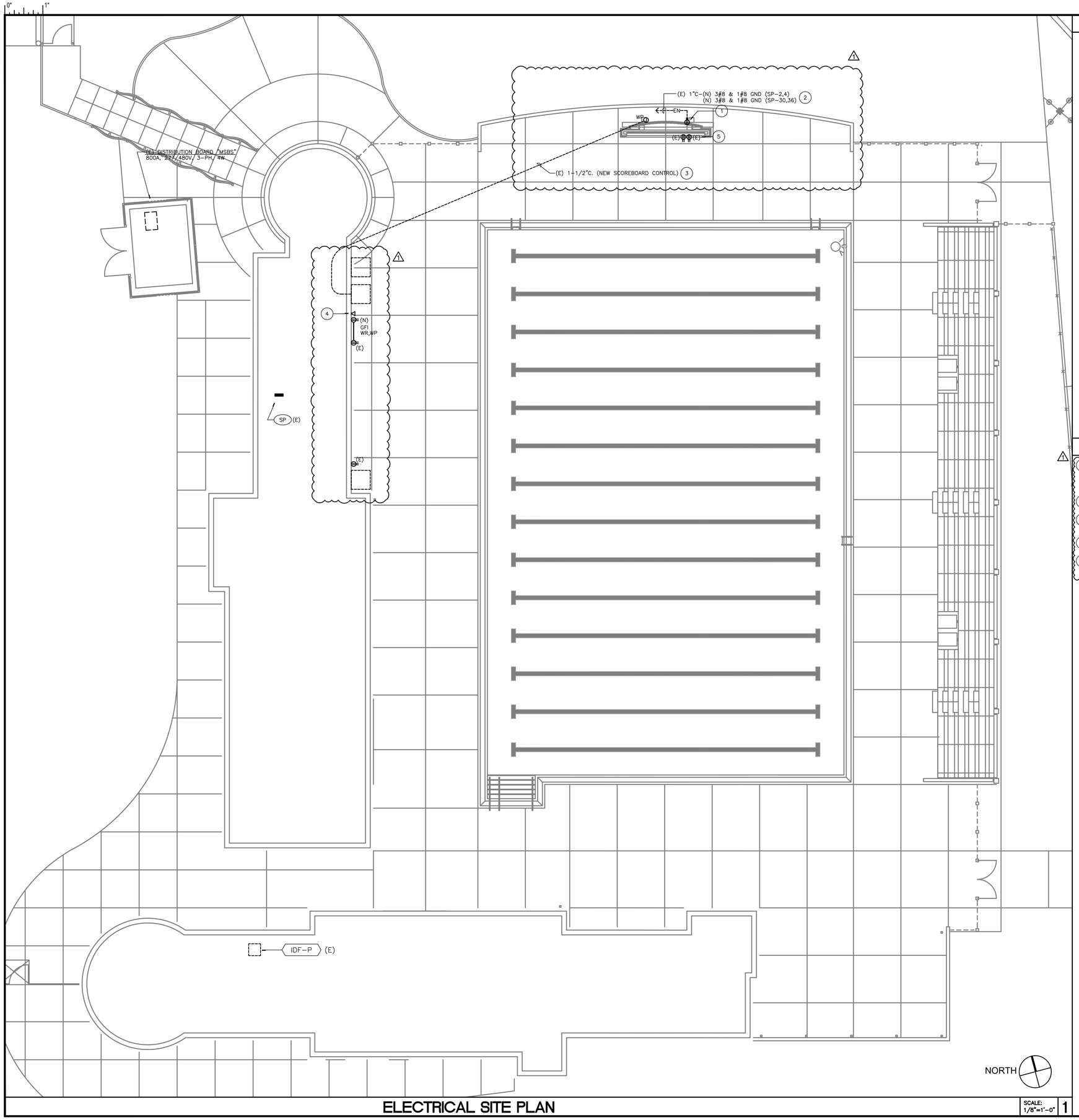
REVISIONS

No.	Description	Date
1	ADDENDUM #1	5/30/23

100% CD SUBMITTAL

ELECTRICAL GENERAL NOTES, SYMBOLS & DETAILS

E-1



ELECTRICAL SITE PLAN

SCALE: 1/8"=1'-0"

1

NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE AND MAKE SURVEY OF EXISTING CONDITIONS WHICH MAY AFFECT OR BE AFFECTED BY THE WORK UNDER THIS SECTION. REFERENCE MADE IN THESE SPECIFICATIONS OR ON THE DRAWINGS TO EXISTING WORK OR CORRECTNESS OF WAYS AND MEANS OF PERFORMING SHALL BE SUBJECT TO VERIFICATIONS BY THE CONTRACTOR IN HIS SURVEY AND ON THE PROGRESS OF THE WORK.
2. THE CONTRACTOR SHALL VISIT THE JOB SITE TO ACQUAINT HIMSELF WITH ACTUAL CONDITIONS OF EXISTING AND TO BECOME FAMILIAR WITH THE TOTAL SCOPE OF WORK REQUIRED. SUBMISSION OF BID WILL BE INDICATION THAT CONTRACTOR HAS MADE VISUAL INSPECTION OF THE SITE, HAS REVIEWED ALL PLANS AND AS-BUILT DRAWINGS, OUTLINE REQUIREMENTS AND HAS INCLUDED IN THE PRICE ALL LABOR, MATERIALS AND EQUIPMENT TO COMPLETE THE ELECTRICAL WORK.
3. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DO ALL CORING, CUTTING, PATCHING AND REFINISHING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY FOR HIM TO PENETRATE FOR HIS WORK. ALL OPENINGS MADE SHALL BE SEALED TO MEET THE RATED INTEGRITY OF THE PARTICULAR WALL, FLOOR OR CEILING.
4. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF EXISTING SYSTEM, EQUIPMENT, ETC. REMAINING IN OPERATION. WHERE AN EXISTING OUTLET DEVICE IS BEING FED BY AN ABANDON OUTLET, MAINTAINING CONTINUITY SHALL CONSIST OF RE-ROUTING OF CONDUIT, WIRE, ETC. AS REQUIRED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND VERIFYING, THE EXACT LOCATION OF THE "POWER AND "SIGNAL" PULLBOXES FOR THE PROPER INTERFACE WITH THE UNDERGROUND CONDUIT STUB-UPS.
6. WHERE EXISTING CONDUIT STUB-OUTS ARE TO BE INTERCEPTED, THE CONTRACTOR SHALL VERIFY THE ACTUAL ROUTING OF THE EXISTING CONDUITS AND DETERMINE THE ACTUAL POINT OF INTERCEPTION THE FIELD.
7. LOCATION OF UNDERGROUND PULLBOXES AND CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL PULLBOX LOCATION AND ROUTING OF UNDERGROUND CONDUITS SHALL BE VERIFIED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES.
8. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN REQUIRED CLEARANCES BETWEEN UNDERGROUND ELECTRICAL CONDUITS AND FOOTINGS. CONDUIT STUB-UPS SHALL NOT BE INSTALLED IN FOOTINGS, EXACT METHOD FOR STUBBING-UP CONDUITS AT FOOTINGS LOCATIONS SHALL COORDINATED IN THE FIELD WITH THE ARCHITECT.
9. PROTECT EXISTING CONCRETE, WALKWAY, ELECTRICAL FOR TRENCHING TO BE WITHIN LANDSCAPE AREA UNLESS WHERE NECESSARY. PATCH CONCRETE TO MATCH SURROUNDING WHERE NECESSARY.
10. VERIFY EXACT LOCATION OF NEW EQUIPMENTS MOUNTING IN FIELD.
11. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH SCOREBOARD MANUFACTURER FOR REQUIREMENTS FOR COMPLETE AND OPERABLE SYSTEM.
12. REFER TO SCOREBOARD DRAWINGS FOR MOUNTING AND INSTALLATION DETAIL. BOND ALL METAL PARTS.

REFERENCE NOTES

1. DISCONNECT CONNECTION TO EXISTING SCOREBOARD AND INSTALL (4) DEDICATED WEATHER RESISTANT GFI RECEPTACLES IN WEATHERPROOF HOUSING FOR SCOREBOARD POWER AND CONDUIT STUB OUT FOR CONTROL TO NEW SCOREBOARD. INSTALL 3/4"C-1#8 GND AND 5/8"x10 FT. GROUND ROD AND BOND METAL POST. EXTEND CONDUIT TO SCOREBOARD POST AS REQUIRED. VERIFY EXACT LOCATION IN FIELD.
2. REMOVE EXISTING CONDUCTORS AND INSTALL NEW CONDUCTORS IN EXISTING CONDUIT FROM EXISTING PANEL TO NEW SCOREBOARD. VERIFY EXACT ROUTING IN FIELD.
3. REMOVE EXISTING CONTROL CABLE AND INSTALL NEW CONTROL CABLE PER MANUFACTURER REQUIREMENTS. VERIFY EXACT ROUTING AND OTHER REQUIREMENTS WITH SCOREBOARD MANUFACTURER.
4. INSTALL 1"C-(2) CAT 6A JACK IN WEATHERPROOF ENCLOSURE AND CAT 6A DATA CABLES TO EXISTING IDF. VERIFY EXACT LOCATION IN FIELD.
5. RE-INSTALL EXISTING RECEPTACLES AND DIGITAL LIGHTING CONTROL SWITCH IN WEATHERPROOF ENCLOSURE AFTER INSTALLATION OF NEW SCOREBOARD HAS BEEN COMPLETED. VERIFY EXACT LOCATION AND MOUNTING HEIGHT IN FIELD.

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CHINO HILLS HIGH SCHOOL
SCOREBOARDS REPLACEMENT

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12/16/2022	W2105800AR

REVISIONS

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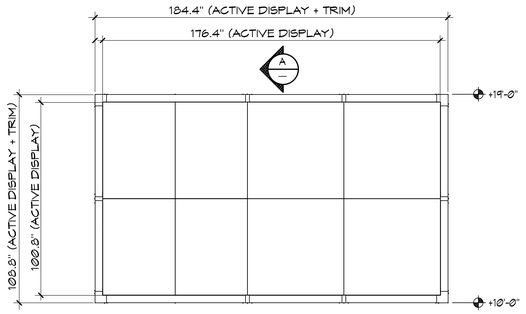
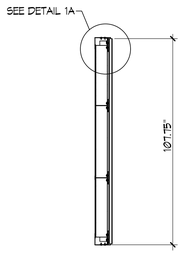
1	ADDENDUM #1	5/30/23

100% CD SUBMITTAL

ELECTRICAL SITE PLAN

E-2





- EACH 2-PLEX RECEPTACLE SHALL BE 120V MIN. 20 AMP
- RECEPTACLES TO BE PLACED BEFORE CTS INSTALLATION.
- SINGLE GANG WALL BOX WITH BLANK PLATE FOR DATA CABLE. ONE PER DISPLAY.
- EACH CIRCUIT SHALL BE DEDICATED 120V, MIN. 20 AMPS. CALIFORNIA ELECTRIC CODE REQUIRES A MEANS OF DISCONNECTING SIGNS AT THE LOCATION OF THE SIGN. SCOREBOARD SHALL BE WIRED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE ART. 600-6.
- IT IS EXTREMELY IMPORTANT THAT THE CIRCUITS USED TO POWER THE SCOREBOARD NOT BE SHARED WITH OTHER DEVICES. THE SCOREBOARD IS SENSITIVE TO "NOISE" ON AC POWER LINES.
- DISPLAY SHALL BE EARTH GROUNDED. NUMBER AND LENGTHS OF RODS SHALL MEET CALIFORNIA ELECTRIC CODE SEE SHEET E1.
- DISPLAY MAXIMUM POWER CONSUMPTION: 8,600 WATTS

SPECIFICATIONS:

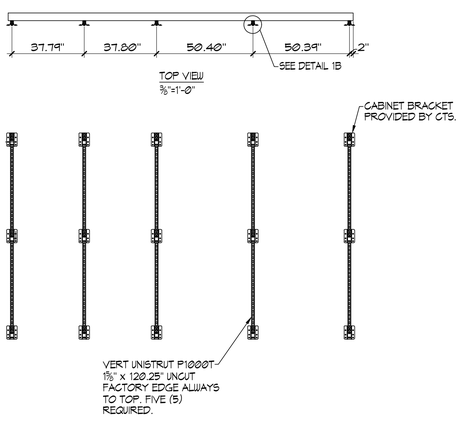
- PAINT ALL EXPOSED CONDUITS TO MATCH ADJACENT WALL COLOR. PREPARE SURFACES AND PAINT ALL EXPOSED STEEL IN THE SCOREBOARD ASSEMBLY / STRUCTURE. PAINT SHALL BE DUNN-EDWARDS OR EQUAL AS CALLED OUT ON SHEET A1.2. ALL EXPOSED FASTENERS ARE 316 STAINLESS STEEL.

MODEL NUMBER:

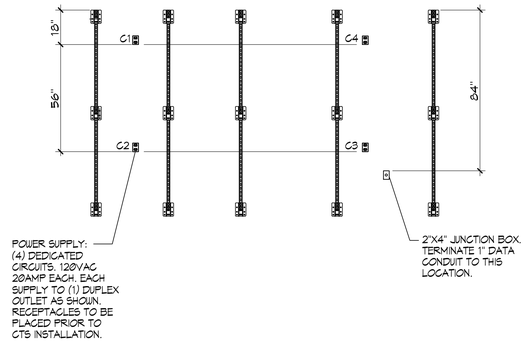
- Y5J 10mm 256H x 448W SMD, FA, OD 2PM DISPLAY
  ACTIVE AREA: 100.8"(H) x 176.4"(W)

SYSTEM WEIGHTS:

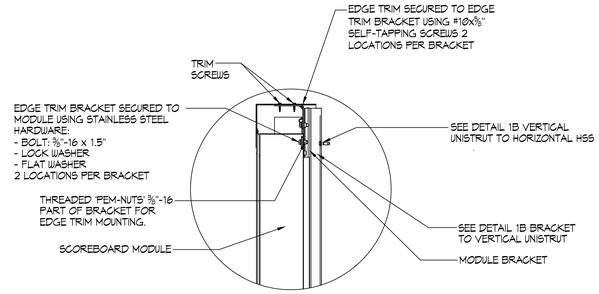
- DISPLAY - APPROXIMATELY 1,600 LBS.
- FRAME AND EDGE TRIM - APPROXIMATELY 180 LBS.
- DISPLAY MOUNTING CHANNELS SHALL BE ALIGNED USING TEMPLATE.



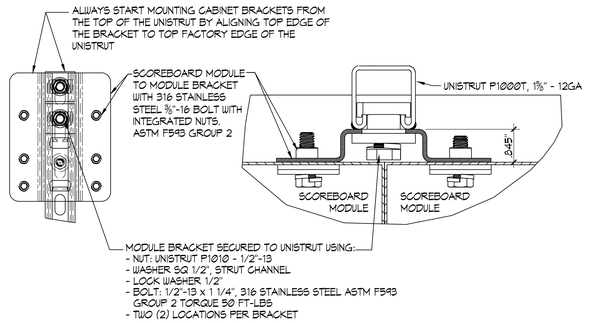
TOP VIEW
⅜"=1'-0"



FRONT ELECTRICAL VIEW
⅜"=1'-0"



1A **DETAIL**
NO SCALE



1B **DETAIL**
NO SCALE

NEW SCOREBOARD DETAILS

⅜"=1'-0"

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CHINO HILLS HIGH SCHOOL
AQUATIC SCOREBOARD REPLACEMENT

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Chino Valley Unified School District

DATE	PROJECT NUMBER
5/19/2023	W2105800AR

REVISIONS

No.	Description	Date
1	ADDENDUM #1	2023 / 5 / 19

100% CD SUBMITTAL

SCOREBOARD DETAILS

SB.1 1

NEW TIMING SYSTEM NOTES/EQUIPMENT

TIMING SYSTEM

QTY	MODEL	DESCRIPTION
(1) 1	GEN7-TMR	INTUITIVE SOFTWARE INTERFACE WITH MODERN WINDOWS USER INTERFACE AND TOUCHSCREEN FRIENDLY. FLEXIBLE USER INTERFACE OPTIONS WITH ETHERNET CONNECTIVITY TO THE TIMER. ADVANCED DIAGNOSTICS, INTELLIGENT BUS SYSTEM, ROBUST SAFEGUARDS. TIMER WILL CONTINUE TO RUN AND FINISH RACE WITHOUT USER INTERFACE. WET-PLUGGABLE TITANIUM CONNECTIONS. INTEGRATED 2.4 GHz WIRELESS TO SCOREBOARDS, FACILITY NETWORK CONNECTIVITY.
1	R-600-302	GEN7 LAPTOP

START SYSTEM

QTY	MODEL	DESCRIPTION
(2) 1	SS	CHAMPION SERIES START SYSTEM WITH WIRED MICROPHONE, VOLUME CONTROL ON EACH MICROPHONE INPUT, EXTERNAL CONNECTIONS FOR ADDITIONAL STROBE LIGHTS, LED BATTERY INDICATION LIGHT, AC/DC POWER CAPABILITIES AND AN EXTERNAL 360° STROBE. TRIPOD OR TABLE TOP OPTIONS.
1	START-FPM-2	FLAG POLE MOUNTING KIT FOR STARTER
10	SP-6/45	6 WATT INDIVIDUAL BLOCK SPEAKER

TOUCHPADS

QTY	MODEL	DESCRIPTION
(3) 10	TP-90G	AQUAGRIP GUTTERHUNG TOUCHPADS (90° x 22") US PATENT 5,702,799
1	CAD-TP96	TOUCHPAD CADDY FOR GUTTERHUNG TOUCHPADS. HOLDS UP TO TEN TOUCHPADS. SOME ASSEMBLY REQUIRED.
10	4000-0040	SPECIAL SIZE TOUCHPAD BRACKETS

GEN7 TOUCHPAD SYSTEM

QTY	MODEL	DESCRIPTION
1	TP-GEN7-10	TEN-LANE TOUCHPAD SYSTEM FOR THE GEN 7 TIMING SYSTEM (SERIAL) INCLUDES AN TEN-LANE CABLE HARNESS, ONE PUSHBUTTON PER LANE+ ONE SPARE, VACUUM PUMP AND TOUCHPAD METER.

GEN7 CABLE

QTY	MODEL	DESCRIPTION
1	R-015-107-8	SCOREBOARD CABLE, 8 METER
1	R-015-715-8	TIMER CABLE, 8 METER
1	R-015-706-8	STARTER CABLE, 8 METER
1	R-015-715-15	TIMER CABLE, 15 METER

GEN7 IN DECK

QTY	MODEL	DESCRIPTION
[D] 10	TDPI-D	TITANIUM DOMED DECK PLATE-INTELLIGENT TITANIUM DECK PLATES REQUIRE A 4" SQUARE OR 4.125" DIAMETER CIRCULAR OPENING AT A MINIMUM. WRITTEN VERIFICATION AND SIGN OFF REQUIRED FROM CUSTOMER. NOTE: INCLUDES 5 YEAR WARRANTY. CTS IS THE ONLY MANUFACTURER OF TITANIUM DECK PLATE.
[2] 1	TDPI-S2	START DECK NODE
[5] 1	TDPI-SCS	SCOREBOARD DECK NODE
[F] 1	R-1004-0549	GEN7 WALL PLATE (12X12)
1	TDPI-K1	KIT-SCOREBOARD BUS HEAD & TAIL NODE INSTALLATION
1	TDPI-K1	KIT-TIMING BUS HEAD & TAIL NODE INSTALLATION
1	WPI-F4	WP-YDS FIBER & LEGACY CONNECT

GEN7 CABLE

QTY	MODEL	DESCRIPTION
1200'	R-015-737	TIMING BUS CABLE- 7 CONDUCTOR
1200'	R-015-726	SCOREBOARD BUS CABLE- 4 CONDUCTOR

PACE CLOCK

QTY	MODEL	DESCRIPTION
1	PC-PRO-R	PACE CLOCK - PRO/WATER POLO SHOT CLOCK
2	DC-1500 1 PC-PRO AND 2 DC 1500 DECK CLOCKS PER OWNER APPROVAL.	SPECIFICATIONS: • 4 DIGIT PACE CLOCK • 10" RED DIGITS - VIEWABLE UP TO 400 FEET • HIGH INTENSITY LED - INDOOR/OUTDOOR • "SPLASH-PROOF" PROTECTIVE LENS • INTERNAL RECHARGEABLE BATTERY • INTERNAL HORN • FEET AND HANDLE FUNCTIONS: • SIMPLE PACE CLOCK • CUMULATIVE SPLIT DISPLAY • LAP SPLIT DISPLAY • LAP COUNTER • LAP SPLIT DISPLAY WITH TURN SPEED • RELAY EXCHANGES DISPLAY • START REACTION DISPLAY • HAND TURN SPEED • BREAK OUT SPEED DISPLAY • BREAK OUT SPEED DISPLAY WITH START REACTION • TIME DISPLAY FOR REPETITIVE SETS • SINGLE LANE TIMER • MID-RACE TIMING DISPLAY • WATERPOLO SHOT CLOCK • WATERPOLO GAME CLOCK NOTE: MOST FUNCTIONS REQUIRE ADDITIONAL INPUT DEVICES, I.E. TOUCHPAD, RELAY JUDGING PLATFORM, START SYSTEM, PUSHBUTTON

CONTROLLER

QTY	MODEL	DESCRIPTION
1	WTTC-2	WIRELESS TABLE TOP CONTROLLER
1	CASE-WTTC	CASE FOR THE WIRELESS TABLE TOP CONTROLLER
1	WHC-1	WIRELESS HANDHELD CONTROLLER

ADAPTER

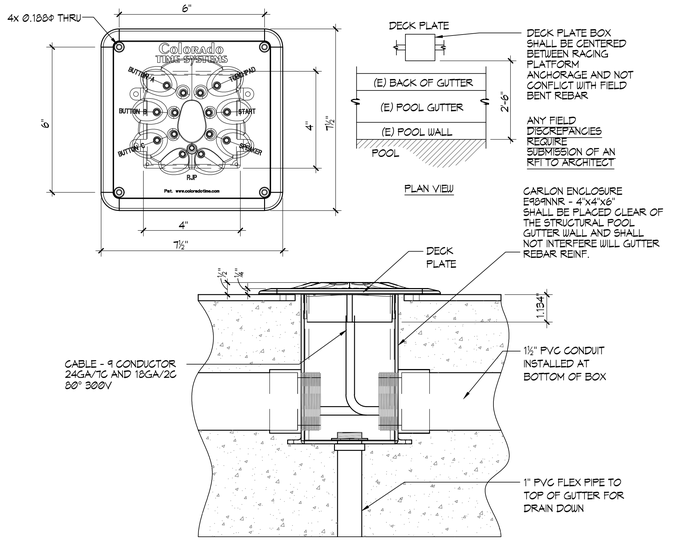
QTY	MODEL	DESCRIPTION
1	WA-3	WIRELESS ADAPTER, 2.4 GHz

RELAY JUDGING PLATFORM

QTY	MODEL	DESCRIPTION
8	RJPL-24x32	CTS RELAY JUDGING PLATFORM 24"X32" W/ BUILT-IN LED LIGHT FOR START
1	CAD-RJPL-2	CADDY- 24" WIDTH RELAY JUDGING PLATFORMS (HOLDS 10)

FULL COLOR VIDEO DISPLAY

QTY	MODEL	DESCRIPTION
(4) 1	FUTURE SCOREBOARD	c(UL)us LISTED PROVIDE LED MATRIX DISPLAY SCOREBOARD INCLUDING ALL POWER REQUIREMENTS, BONDING AND STRUCTURAL SUPPORTS. THE SCOREBOARD SHALL HAVE FULL COLOR AND VIDEO CAPABILITIES. YSJ 10mm 256H x 448W SMD, FA, OD 2PM DISPLAY ACTIVE AREA: 100.8"(H) x 176.4"(W) (5) PROVIDE FOUR (4) DEDICATED 20 AMP CIRCUIT TO BE TERMINATED INTO SCOREBOARD LOAD CENTER (6) MASTER ON/OFF SCOREBOARD SWITCH WITH PILOT LIGHT W/ LOCKABLE ENCLOSURE. (7) SCOREBOARD DATA CONNECTION BOX CONNECT TO TIMING/WALL BOX LOCATION W/ 1" PVC CONDUIT.
1	ID PANEL	NON-ILLUMINATED FACILITY IDENTIFICATION PANEL WITH ARTWORK.



1 TITANIUM DECK PLATE DETAIL (LOCATED UNDER RACING PLATFORM)
NO SCALE

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CHINO HILLS HIGH SCHOOL
AQUATIC SCOREBOARD REPLACEMENT

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REN. 07.31.25
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Architect

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ROBERT LAVEY
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REN. 08.31.25
STATE OF CALIFORNIA

CLIENT
Chino Valley Unified School District

DATE	PROJECT NUMBER
6/13/2023	W2105800AR

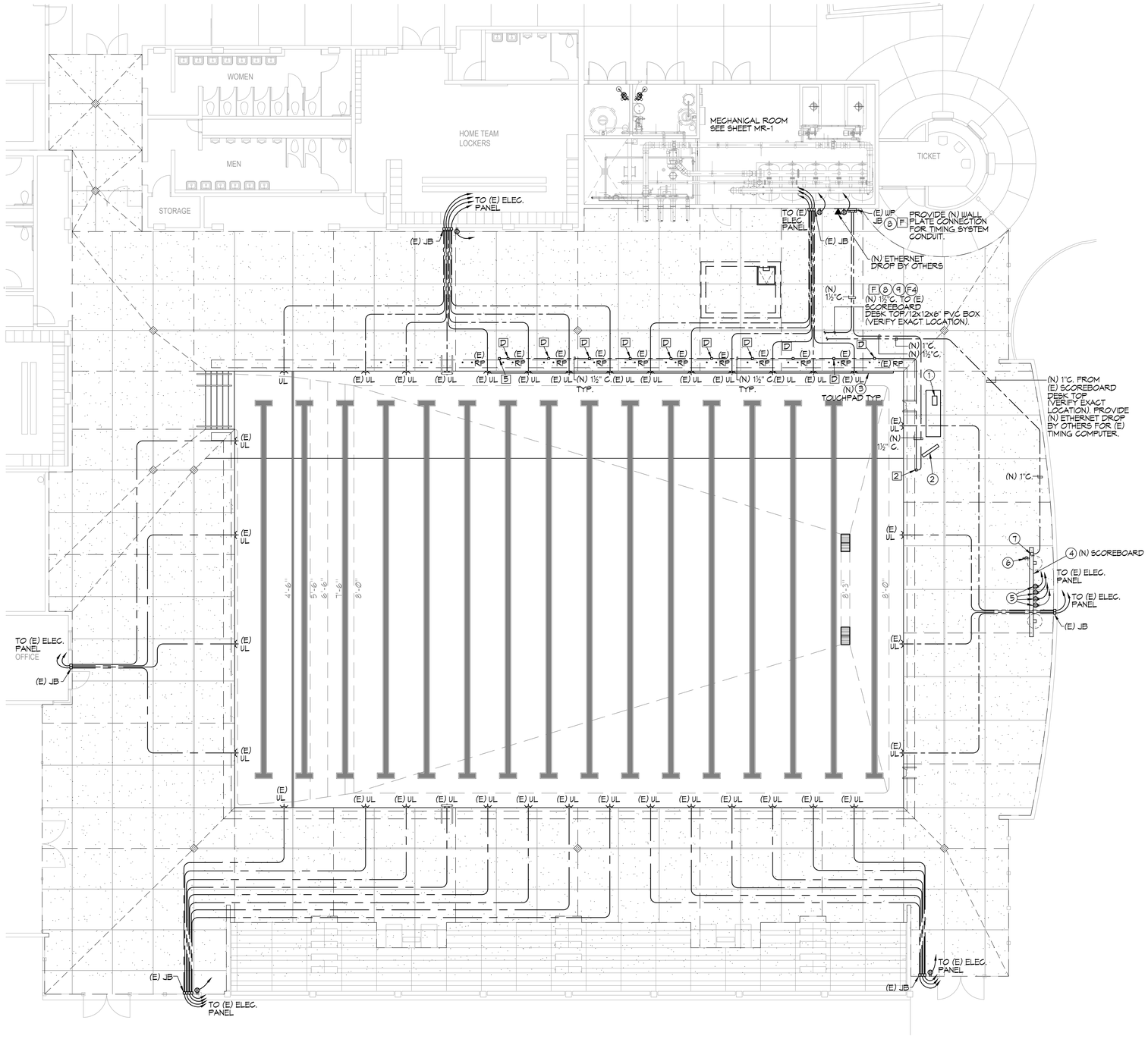
REVISIONS

No.	Description	Date
1	ADDENDUM #1	2023 / 6 / 13

100% CD SUBMITTAL

NEW TIMING SYSTEM NOTES / EQUIPMENT AND DETAILS

SB.2 1



LEGEND

RP	=	RACING PLATFORM
WP JB	=	WALL PLATE JUNCTION BOX
UL	=	UNDERWATER LIGHT
JB	=	JUNCTION BOX
(E)	=	EXISTING
(N)	=	NEW

NOTE:

1. THE CONTRACTOR SHALL SUPPLY AND INSTALL NEW CONDUIT AND NEW CONDUIT BOXES FOR FUTURE TIMING SYSTEM.

KEY NOTES

	DESCRIPTION	QUANTITY	UNIT
▼	ETHERNET DROP-BY OTHERS	2	COUNT
(8)	WALL PLATE TIMER NODE	2	COUNT
(9)	WALL PLATE SCOREBOARD NODE	1	COUNT
(F4)	WALL PLATE FIBER CONNECTION	1	COUNT
1/SB.2 (D)	TIMING DECK NODE (4"x4"x6" PVC BOX)	10	COUNT
(2)	START DECK NODE (4"x4"x6" PVC BOX)	1	COUNT
(5)	SCOREBOARD DECK NODE (4"x4"x6" PVC BOX)	1	COUNT
(F)	TIMING SYSTEM WALL INTERFACE WP1 W/ 12"x12"x6" PVC BOX	2	COUNT

NORTH

1 **NEW SWIMMING POOL TIMING SYSTEM PLAN** ⅛"=1'-0"

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-121523 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☐
DATE: 08/18/2023

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CHINO HILLS HIGH SCHOOL
AQUATIC SCOREBOARD REPLACEMENT

PROJECT ADDRESS:
16150 POMONA RINCON ROAD
CHINO HILLS, CA 91709

DSA-APPL NO.: 04-121523 DSA FILE NO.: 36-H3

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Architect

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CLIENT
Chino Valley Unified School District

DATE	PROJECT NUMBER
6/13/2023	W2105800AR

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100% CD SUBMITTAL

NEW SWIMMING POOL TIMING SYSTEM

SP.1 1

AQUATIC SCOREBOARD REPLACEMENT - CHINO HILLS HIGH SCHOOL
CHINO VALLEY UNIFIED SCHOOL DISTRICT
16150 POMONA RINCON ROAD, CHINO HILLS, CA 91709

GENERAL NOTES

1. THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

2. LOCATIONS OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE ARCHITECT IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY UNIDENTIFIED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.

3. THESE DOCUMENTS AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF WLC ARCHITECTS, INC., AND ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF WLC ARCHITECTS, INC.

4. THE WORK SHOWN ON THESE DRAWINGS AS EXISTING CONDITIONS WAS PREPARED FROM INFORMATION FURNISHED BY THE OWNER. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, WLC ARCHITECTS, INC. IS NOT RESPONSIBLE FOR THE ACCURACY OR ADEQUACY OF ANY WORK SHOWN AS EXISTING NOR IS WLC ARCHITECTS, INC. RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

5. EACH BIDDER SHALL POSSESS AT THE TIME OF BID A CLASS B OR THE APPROPRIATE CLASS C CONTRACTOR'S LICENSE PURSUANT TO PUBLIC CONTRACT CODE SECTION 3300 AND BUSINESS AND PROFESSIONS CODE SECTION 7028.15. THE SUCCESSFUL BIDDER MUST MAINTAIN THE LICENSE THROUGHOUT THE DURATION OF THIS CONTRACT.

6. FIRE SAFETY DURING CONSTRUCTION

   A. GENERAL: FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9, CHAPTER 5 AND CHAPTER 33.

   B. ACCESS ROADS: FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAINED IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33, SECTION 3310.

   C. WATER SUPPLY: WATER MAINS AND HYDRANTS SHALL BE OPERATIONAL IN ACCORDANCE WITH CHAPTER 5, SECTION 501.4 AND CHAPTER 33,SECTION 3312.

   D. BUILDING ACCESS: ACCESS TO BUILDINGS FOR THE PURPOSE OF FIREFIGHTING SHALL BE PROVIDED. CONSTRUCTION MATERIAL SHALL NOT BLOCK ACCESS TO BUILDINGS, HYDRANTS, OR FIRE APPLIANCES.

   E. ALTERATIONS OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33.

   F. DEMOLITION OF BUILDINGS: SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 33.

   G. FIRE WATCH: MAINTAIN FIRE WATCH WHEN REQUIRED BY THE BUILDING OFFICIAL AND WHEN EXISTING FIRE PROTECTION SYSTEMS ARE SHUT DOWN FOR ALTERATIONS IN ACCORDANCE WITH CHAPTER 33, SECTION 3304.5. FIRE WATCH SHALL REMAIN IN EFFECT UNTIL EXISTING FIRE PROTECTION SYSTEMS ARE RETURNED TO SERVICE OR AS ALLOWED BY THE BUILDING OFFICIAL.

7. INSPECTOR OF RECORD REQUIREMENTS

   A. ONE OR MORE INSPECTORS EMPLOYED BY THE OWNER IN ACCORDANCE WITH THE REQUIREMENTS OF TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS WILL BE ASSIGNED TO THE WORK. THE INSPECTOR'S DUTIES ARE SPECIFICALLY DEFINED IN SECTION 4-342 OF SAID TITLE 24, PART 1 AND IN ADDITION SHALL BE AS STIPULATED IN INTERPRETATION OF REGULATION DOCUMENT IR A-8.

   B. INSPECTOR SHALL BE CERTIFIED AS A CLASS 3 INSPECTOR THROUGH THE DIVISION OF THE STATE ARCHITECT INSPECTOR EXAMINATION PROGRAM. INSPECTOR SHALL ALSO BE SPECIFICALLY APPROVED BY THE DIVISION OF THE STATE ARCHITECT FOR THIS PROJECT AT LEAST 10 DAYS PRIOR TO THE START OF ANY WORK FOR THIS PROJECT.

8. ALL WORK SHOWN ON THESE DRAWINGS SHALL COMPLY WITH THE REQUIREMENTS OF 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

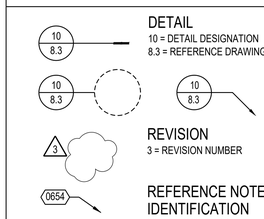
9. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY TITLE 24, CCR, PART 1, SECTION 4-338.

10. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS, AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

11. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ADDITION, ALTERATION OR RECONSTRUCTION IS IN COMPLIANCE WITH THE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT IDENTIFIED BY THE CONTRACT DOCUMENTS WHEREIN THE FINAL WORK WOULD NOT COMPLY WITH THE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ARCHITECT OF THE CONDITION IN WRITING. NECESSARY INFORMATION REQUIRED TO CORRECT THE CONDITIONS ENCOUNTERED WILL BE ISSUED BY THE ARCHITECT. A CHANGE ORDER MAY BE ISSUED TO ADJUST THE CONTRACT SUM OR TIME COMMENSURATE WITH THE AMOUNT OF ADDITIONAL WORK REQUIRED, IF ANY. A CONSTRUCTION CHANGE DOCUMENT SHALL BE APPROVED BY THE DIVISION OF THE STATE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK REQUIRED BY THE CHANGE ORDER. TITLE 24, CCR, PART 1, SECTION 4-317(c)

12. DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

DRAFTING SYMBOL LEGEND



DETAIL
10 = DETAIL DESIGNATION
8.3 = REFERENCE DRAWING NUMBER

REVISION
3 = REVISION NUMBER

REFERENCE NOTE IDENTIFICATION
06 = DIVISIONAL PREFIX

CENTER LINES, FLOOR LINES AND LEVEL LINES

BREAKS OF BUILDING COMPONENTS

DESIGN LOADS

WIND DESIGN*
1. BASIC WIND SPEED: V = 95 M.P.H., Vasd = 73.6 M.P.H.
2. RISK CATEGORY = II
3. WIND EXPOSURE = C

SEISMIC DESIGN:
RISK CATEGORY = II
SEISMIC IMPORTANCE FACTOR (Ie) = 1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS:
Ss: 1.88
S1: 0.665
SITE CLASS = D
STRUCTURAL RESPONSE COEFFICIENTS:
Sds: 1.504
Sd1: 0.753
SEISMIC DESIGN CATEGORY = D

LATERAL BEARING PRESSURE = 150 PSF/FT

GOVERNING CODES

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1

2019 CALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2 — (2018 INTERNATIONAL BUILDING CODE (IBC) W/ CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3 — (2017 NATIONAL ELECTRIC CODE (NEC) W/ CALIFORNIA AMENDMENTS)

2019 CALIFORNIA MECHANICAL CODE (CMC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 4 — (2018 UNIFORM MECHANICAL CODE (UMC) W/ CALIFORNIA AMENDMENTS)

2019 CALIFORNIA PLUMBING CODE (CPC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 5 — (2018 UNIFORM PLUMBING CODE (UPC) W/ CALIFORNIA AMENDMENTS)

2019 CALIFORNIA ENERGY CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6

2019 CALIFORNIA HISTORICAL BUILDING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 8

2019 CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9 — (2018 INTERNATIONAL FIRE CODE (IFC) W/ CALIFORNIA AMENDMENTS)

2019 CALIFORNIA EXISTING BUILDING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 10 — (2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC) W/ CALIFORNIA AMENDMENTS)

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 11

2019 CALIFORNIA REFERENCED STANDARDS CODE -CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12 — 1990 STATE FIRE MARSHAL REGULATIONS (AS AMENDED TO DATE) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19

CALIFORNIA ELEVATOR SAFETY CODE, CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 8 (AS AMENDED TO DATE)

2010 AMERICANS WITH DISABILITY ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN (ADAS)

APPLICABLE NFPA , UL AND ICC STANDARDS

NFPA 13	-	AUTOMATIC SPRINKLER SYSTEMS, 2016 EDITION
NFPA 14	-	STANDPIPE SYSTEMS, 2016 EDITION
NFPA 17	-	DRY CHEMICAL EXTINGUISHING SYSTEMS, 2017 EDITION
NFPA 17A	-	WET CHEMICAL SYSTEMS, 2017 EDITION
NFPA 20	-	STATIONARY PUMPS, 2016 EDITION
NFPA 24	-	PRIVATE FIRE MAINS, 2016 EDITION
NFPA 25	-	WATER BASED FIRE PROTECTION SYSTEMS, 2013 EDITION
NFPA 72	-	NATIONAL FIRE ALARM CODE, 2016 EDITION
NFPA 80	-	FIRE DOORS AND OTHER OPENING PROTECTIVES, 2016 EDITION
NFPA 92	-	STANDARD FOR SMOKE CONTROL SYSTEMS, 2015 EDITION
NFPA 253	-	CRITICAL RADIANT FLUX OF FLOOR COVERINGS, 2015 EDITION
NFPA 2001	-	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 2015 EDITION
ICC 300	-	ICC STANDARDS FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING, AND GRANDSTANDS, 2017 EDITION
UL 300	-	FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL RESTAURANT COOKING AREAS, 2005 EDITION W/ REVISIONS THRU 2014
UL 464	-	AUDIBLE SIGNAL APPLIANCES, 2003 EDITION
UL 521	-	HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION W/ REVISIONS THRU JULY 30, 2005

NOTE: ALL NFPA STANDARDS AS LISTED ARE TO CONFORM TO THE EDITION AS LISTED WITH THE LATEST CALIFORNIA AMENDMENTS. REFERENCE THE 2019 CBC, TITLE 24, PART 2 - CHAPTER 35 FOR ADDITIONAL APPLICABLE NFPA, UL. STANDARDS AND ANY CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

PROJECT TEAM

PROJECT ADDRESS
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16150 POMONA RINCON ROAD
CHINO HILLS, CA 91709
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STRUCTURAL
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2705 N TOWNE AVE.
POMONA, CA, 91767
PHONE: 909-626-6291

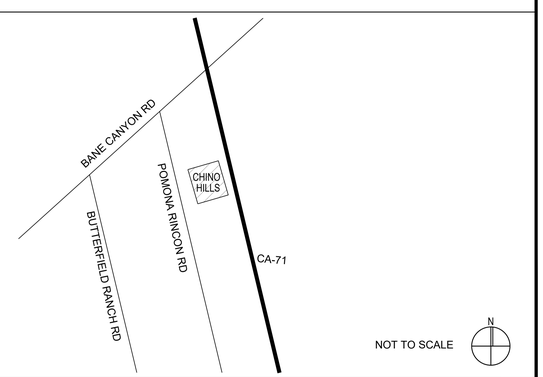
DRAWING REF NO	DESCRIPTION	DRAWING REF NO	DESCRIPTION
	ARCHITECTURAL		
A0.1	GENERAL NOTES / PROJECT DIRECTORY		
A1.1	SITE PLAN		
A1.2	ENLARGED SITE PLAN & ELEVATIONS		
A1.3	DETAILS		
A1.4	SPECIFICATION		
	ELECTRICAL		
E-1	ELECTRICAL GENERAL NOTES, SYMBOLS & DETAILS		
E-2	ELECTRICAL SITE PLAN		
	TOTAL: 7 PAGES		

SCOPE OF WORK DESCRIPTION

THE SCOPE OF THE WORK AS STATED BELOW DOES NOT CONSTITUTE A DETAILED AND FULL EXPLANATION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

REPLACEMENT OF AQUATIC SCOREBOARD.

VICINITY MAP



NOT TO SCALE

IDENTIFICATION STAMP
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REVIEWED FOR
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DATE: 12/21/2022

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CHINO HILLS HIGH SCHOOL
AQUATIC SCOREBOARD REPLACEMENT

PROJECT ADDRESS:
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Exp 08/31/2024
STATE OF CALIFORNIA

CLIENT
Chino Valley Unified School District

DATE	PROJECT NUMBER
7/1/2022	W2105800AR

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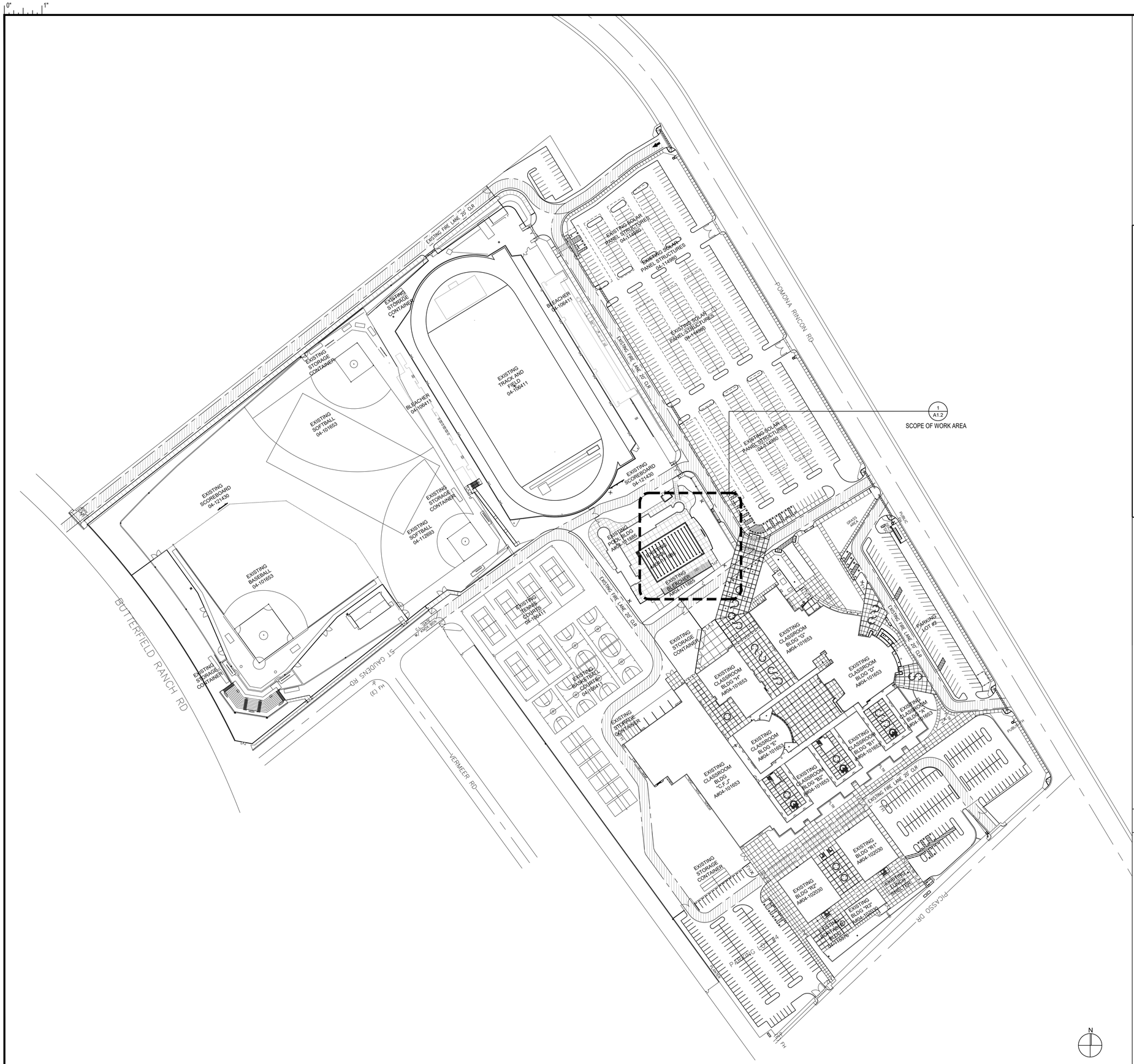
100% CD SUBMITTAL

GENERAL NOTES & PROJECT DIRECTORY

A0.1



OVERALL SITE PLAN | 1" = 80'-0" | 1

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings.*

PROJECT INFORMATION	
School District/Owner	CHINO VALLEY UNIFIED SCHOOL DISTRICT
Project Name/School	CHINO HILLS HIGH SCHOOL
Project Address	16150 POMONA RINCON ROAD, CHINO HILLS, CA 91709

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☐		No ☑
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐		No ☑
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☑
	Refer to the following website for FHSZ locations: http://egis.fire.ca.gov/FHSZ	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

DGS DSA 810 (revised 12/28/20) DIVISION OF THE STATE ARCHITECT | DEPARTMENT OF GENERAL SERVICES | Page 1 of 4 STATE OF CALIFORNIA

DSA FORM

REFERENCE NOTES

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CHINO HILLS HIGH SCHOOL
AQUATIC SCOREBOARD REPLACEMENT

PROJECT ADDRESS:
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Architect

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STATE OF CALIFORNIA

CLIENT
Chino Valley Unified School District

DATE	PROJECT NUMBER
7/1/2022	W2105800AR

REVISIONS

No.	Description	Date

100% CD SUBMITTAL

SITE PLAN

A1.1

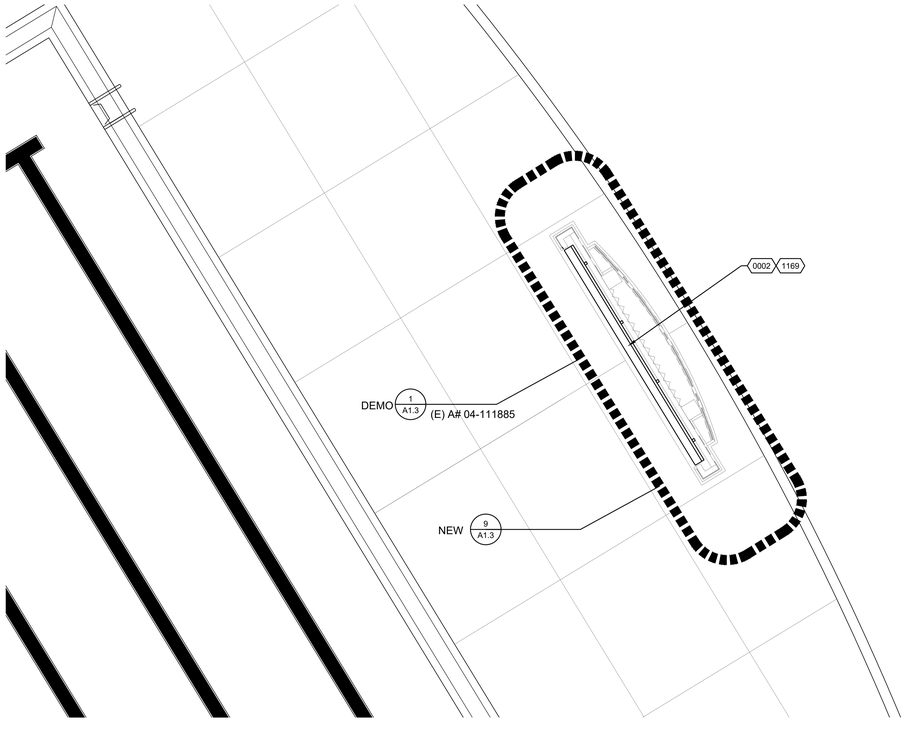
0" 1"

PAINT ALL EXPOSED CONDUITS TO MATCH ADJACENT WALL COLOR. PREPARE SURFACE AND PAINT ALL EXPOSED STEEL IN THE SCOREBOARD ASSEMBLY / STRUCTURE. PAINT SHALL BE DUNN-EDWARDS OR EQUAL AS FOLLOWS:

1. STEEL - GALVANIZED (SEMI GLOSS URETHANE ALKYD ENAMEL)
   1ST COAT: SUPREME CHEMICAL METAL CLEAN AND ETCH SCME-01
   2ND COAT: ULGM00 ULTRASHIELD GALVANIZED METAL PRIMER
   3RD COAT: ASHL50 ARISTOSHIELD
   4TH COAT: ASHL50 ARISTOSHIELD

2. STEEL - PRIMED OR UNPRIMED (SEMI GLOSS URETHANE ALKYD ENAMEL)
   1ST COAT: BRPR00 BLOC-RUST PREMIUM
   2ND COAT: ASHL50 ARISTOSHIELD
   3RD COAT: ASHL50 ARISTOSHIELD

GENERAL NOTES



ENLARGED SITE PLAN

1/4" =1'-0"

1

0002 REMOVE (E) SCOREBOARD ONLY, FRAMING TO REMAIN

1169 (N) AQUATIC SCOREBOARD

DAKTRONICS

LVX-252X432-10SMD
ACTIVE AREA: 8.4' X 14.4'
SIDE PANELS (NON-BACKLIT)
8.4' X 1' @ 2
TOTAL AREA: 8.4' X 16.4'
WEIGHT: 1,470 LB

REF SPECIFICATION SECTION 11 66 43 - DYNAMIC VIDEO SCOREBOARD DISPLAY

REFERENCE NOTES

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CHINO HILLS HIGH SCHOOL
AQUATIC SCOREBOARD REPLACEMENT

PROJECT ADDRESS:
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6-30-2023
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Chino Valley Unified School District

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7/1/2022	W2105800AR

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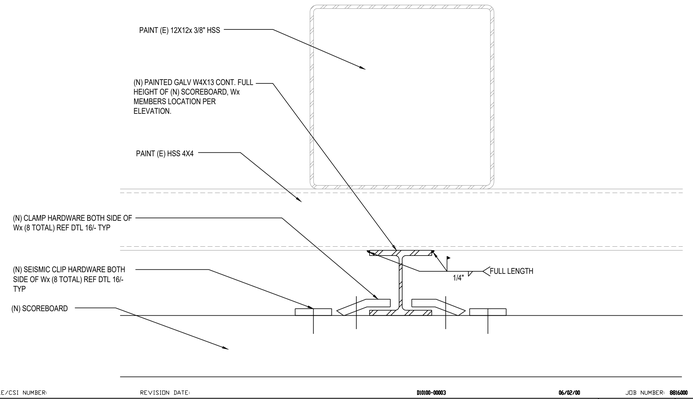
ENLARGED SITE PLAN & ELEVATIONS

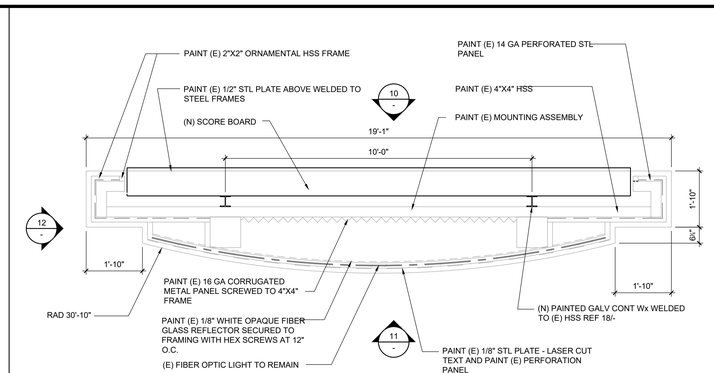
A1.2

0" 1"



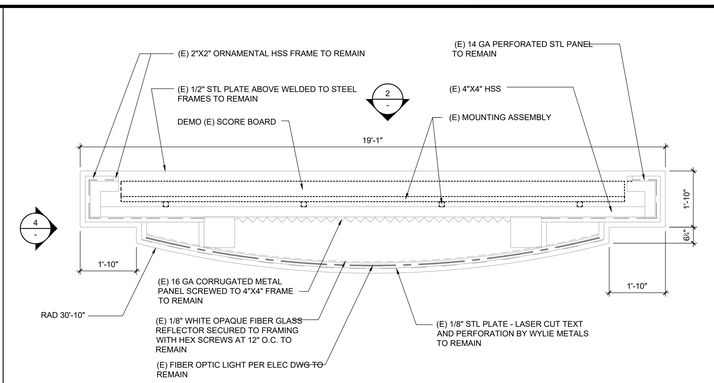
FILE/CSI NUMBER: REVISION DATE: D1000-00003 06/02/00 JOB NUMBER: 8816000

SCOREBOARD MOUNTING 3"=1'-0" 18



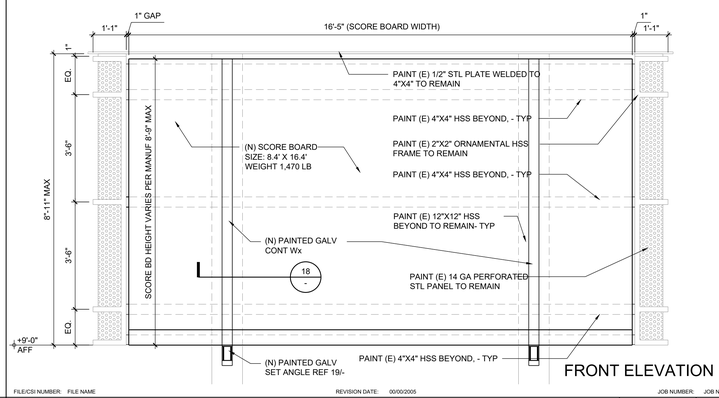
FILE/CSI NUMBER: FILE NAME REVISION DATE: 00/00/2005 JOB NUMBER: JOB NUMBER

SCORE BOARD PLAN VIEW - NEW 1/2"=1'-0" 9



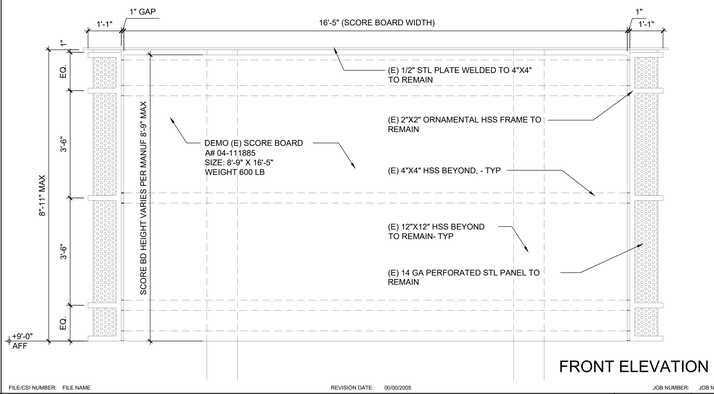
FILE/CSI NUMBER: FILE NAME REVISION DATE: 00/00/2005 JOB NUMBER: JOB NUMBER

SCORE BOARD DEMO PLAN VIEW 1/2"=1'-0" 1



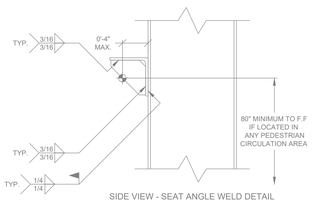
FILE/CSI NUMBER: FILE NAME REVISION DATE: 00/00/2005 JOB NUMBER: JOB NUMBER

SCOREBOARD ELEVATION - NEW 1/2"=1'-0" 10

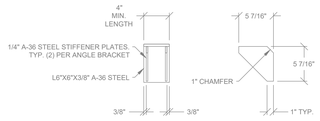


FILE/CSI NUMBER: FILE NAME REVISION DATE: 00/00/2005 JOB NUMBER: JOB NUMBER

SCOREBOARD ELEVATION - DEMO 1/2"=1'-0" 2

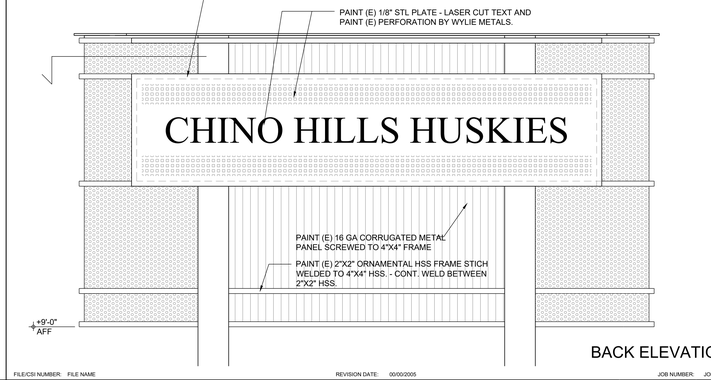


SIDE VIEW - SEAT ANGLE WELD DETAIL



SEAT ANGLE DETAIL
MAXIMUM CAPACITY = 5,000 LBS. PER SEAT
SEAT ANGLE IS REQUIRED AT BOTTOM OF DISPLAY STACKS
TYPICAL AT EACH COLUMN

SEAT ANGLE DETAIL N.T.S. 19



FILE/CSI NUMBER: FILE NAME REVISION DATE: 00/00/2005 JOB NUMBER: JOB NUMBER

SCOREBOARD ELEVATION - NEW 1/2"=1'-0" 11

COLUMN IS A W-FLANGE.
MAXIMUM FLANGE WIDTH IS 16".

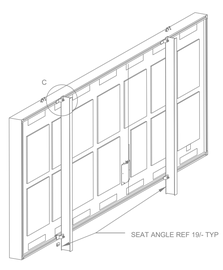
MINIMUM CLAMPS PER SECTION:
2 COLUMN STRUCTURES: 4
3 COLUMN STRUCTURES: 6
INSTALL TORQUE: 40 FT*LBS

MAXIMUM SECTION HEIGHT IS 10'-0"

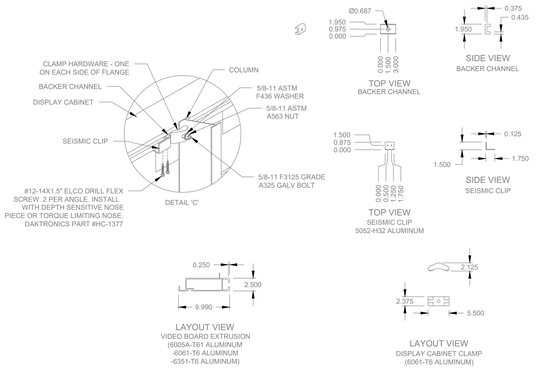
MAXIMUM SECTION WEIGHT LESSER OF
-12 PSF
-1050 LBS FOR 2 COLUMN STRUCTURES
-1575 LBS FOR 3 COLUMN STRUCTURES

I-BEAM LIMITATIONS
-MIN. FLANGE THICKNESS = 3/16"
-MAX.FLANGE THICKNESS = 3/4"
-IF THE I-BEAM FLANGE THICKNESS IS GREATER THAN SPECIFIED, LONGER BOLTS WILL BE REQUIRED AT THE CUSTOMER'S EXPENSE. REPLACEMENT BOLTS MUST BE 5/8"-11 ASTM F3125 GR. A325 HEAVY HEX, MECHANICALLY GALVANIZED PER ASTM B695 AND A MAX. LENGTH OF 4.50".

MOUNTING DETAIL 9

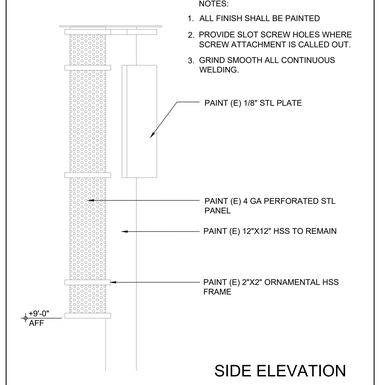


ISOMETRIC VIEW



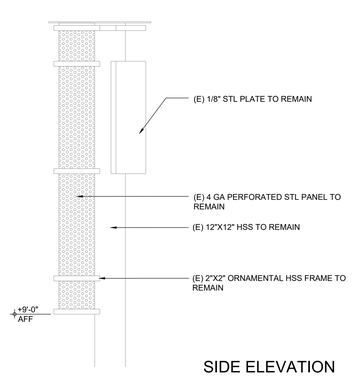
SCOREBOARD MOUNTING DETAIL N.T.S. 16

NOTES:
1. ALL FINISH SHALL BE PAINTED
2. PROVIDE SLOT SCREW HOLES WHERE SCREW ATTACHMENT IS CALLED OUT.
3. GRIND SMOOTH ALL CONTINUOUS WELDING.



FILE/CSI NUMBER: FILE NAME REVISION DATE: 00/00/2004 JOB NUMBER: JOB NUMBER

SCOREBOARD ELEVATION 1/2"=1'-0" 12



FILE/CSI NUMBER: FILE NUMBER REVISION DATE: 00/00/2004 JOB NUMBER: JOB NUMBER

SCOREBOARD ELEVATION - DEMO 1/2"=1'-0" 4

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SS ☑ FLS ☑ ACS ☐
DATE: 12/21/2022

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CHINO HILLS HIGH SCHOOL
AQUATIC SCOREBOARD REPLACEMENT

PROJECT ADDRESS:
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Consultant

Architect
LICENSED ARCHITECT
ROBERT DAVEY
C-29025
Exp. 8/31/23
STATE OF CALIFORNIA

CLIENT
Chino Valley Unified School District

DATE	PROJECT NUMBER
7/1/2022	W2105800AR

REVISIONS

No.	Description	Date

100% CD SUBMITTAL

DETAILS

A1.3

SECTION 11 66 43

DYNAMIC VIDEO SCOREBOARD DISPLAY

PART 1 GENERAL

1.01 SECTION INCLUDES
A. Furnish and install scoring display including LED video matrix, standard scoreboard, game clocks, controllers, operating racks, decorative arch truss, advertisement panels, educational curriculum and all equipment and components necessary for a fully functioning scoring display. To be installed at the aquatic's facility.

1.02 REFERENCES
A. Standard for Electric Signs, UL 48
B. Standard for CSA C22.2 #207
C. Federal Communications Commission Regulation Part 15
D. National Electric Code

1.03 SUBMITTALS
A. Product data: Submit manufacturer's product illustrations, data and literature that fully describe the displays and accessories proposed for installation.
B. Shop drawings: Submit mechanical and electrical drawings.
C. Department of the State Architect: Submit DSA PC drawings for entire display configuration.
D. Maintenance data: Submit manufacturer's installation, operation, and maintenance manuals.

1.04 DELIVERY, STORAGE, AND HANDLING
A. Product delivered on site.
B. Display and equipment to be housed in a clean, dry environment.

1.05 PROJECT CONDITIONS
A. Environmental Limitations: Do not install display equipment until mounting structure is secure and concrete has ample time to cure.
B. Field Measurements: Verify position and elevation of structure and its layout for display equipment. Verify dimensions by field measurements.
C. Verify mounting structure can support the display's weight and wind load in addition to the auxiliary equipment.
D. Installation may proceed within acceptable weather conditions

1.06 QUALITY ASSURANCE
A. For outdoor use
B. Source Limitations: Obtain each type of electronic display through one source from a single manufacturer.
C. UL listed to UL 48
D. UL listed to CSA 22.2 #207
E. FCC compliant
F. Installed per NEC

1.07 WARRANTY
A. Provide 5 years of no cost parts exchange including ground shipping on electronics parts due to manufacturing defects for video display.
B. Provide 1-year on-site technical service support.
C. Provide 1-year product warranty for aquatic timing equipment.
D. Provide toll-free service coordination.
E. Provide technical online and phone support during Daktronics business hours.

PART 2 PRODUCTS

2.01 MANUFACTURER
A. Daktronics, Inc., 201 Daktronics Drive, P.O. Box 5128, Brookings, SD 57006-5128
1. Contact: Leie Sualua, leie.sualua@daktronics.com, 949.312.0903

B. Brokers or Resellers of LED display equipment are not permitted.
C. LED display must be manufactured from component level to full mode module in the U.S. outsourcing of modules outside of the U.S. and assembling the display at a U.S. factory will not be permitted.
D. Display manufacturer must maintain part availability for a minimum of 10-years including 10 years after a product has been discontinued.
E. Display manufacturer to have a minimum of twenty locations installed of this size or larger at a sports facility for game presentation in the state of California.
F. Display manufacturer must have factory technicians living in the State of California for service support.

2.02 VIDEO DISPLAY
A. General information
Product: LVX 10SMD: 10MM (3-in-1) LED display
Pixel Layout: Surface mounted RGB, clustered design not permissible.
Video Dimensions: 8'.4" H, 14.4' W, 11" D, including
Matrix size: 252 x 432
Weight: 1362 lb.
Power requirements: 8016 Watts
B. Cabinet Paint Color
1. Standard: Semi-gloss black on sides only
C. Communication type
1. Fiber optic (50/125 µm multi-mode), minimum 6 strand, non-terminated ends, quantity 1,000 lineal feet.
D. Construction
1. All-aluminum construction for light weight and corrosion resistance
2. Service Access: Front or Rear
E. Display Capabilities
1. Color Capacity: 16 bit (281 trillion colors)
2. LED Refresh Rate: 4800 Hz as defined by the number of times per second the LED image is repainted in intensity
3. Display has signal redundancy allowing for signal path both forward and backwards through modules allowing for loss of only 1 module vs. rows or blocks of multiple modules or panels in case of failure.
F. Viewing Characteristics
1. Module Intensity: 8500 nits (adjustable)
2. Brightness Control: 256 levels (manual, scheduled or automatic)
3. Suggested Viewing Angle: 160° horizontal and +25°/-45° vertical
G. Pixel Characteristics
1. Each pixel consists of one RGB 3-in-1 surface-mount device LED.
2. Pixel spacing measurement must be measured from the center points of neighboring physical pixels, rather than neighboring physical and virtual pixels.
H. LED Module Characteristics
1. Module shall be for outdoor use.
2. Module shall have anti-reflective paint or coating applied to display face. Black state across all modules shall exhibit a Delta E color variation of no more than ,4.
3. Modules shall have horizontal louvers running between LEDs or pixels.
4. Modules shall be able to be removed and installed from both the front and rear of the display.
5. It is not necessary to remove or insert screws in order to remove or install modules.
6. Module shall be silicon potted on face beneath louver and rear, providing a 100% waterproof seal, regardless of module, cabinet or panel construction.
I. Video Processing
1. Video Frame Rate: 50/60 frames per second
2. Graphic Frame Rate: 30 frames per second
3. Processing Architecture: 22-bit distributed
4. System Architecture: 100% digital
5. Video Enhancement: Color space conversion, adjustable gamma correction, proprietary sharpening technology and enhancement algorithms for optimal picture quality
J. LED Quality
1. Quality Control: Sorted by intensity and color wavelength
2. LED Lifetime: 100,000 hours of operation as defined by time at which display intensity has decreased to 50 percent of the original intensity

K. Calibration
1. Pixel-to-pixel and module-to-module optical color calibration must be performed at the factory. The manufacturer must also provide easy-to-use calibration software that allows individual modules and pixels to be independently adjusted while in the display.
2. If modules should need replacement during the life of the display, the calibration software must match newer modules' brightness levels to older modules' levels to preserve picture quality and maintain a uniform display appearance.
L. Display Interface
1. The full-color video display must be able to interface and display real-time data from the control system without the need for a duplicate or redundant input.

2.03 DECORATIVE PANELS
A. General Information
1. Product: ID side panel with vinyl logo/lettering
2. Dimensions: 8.4' H x 1' W @ 2
3. To be installed on both sides of video board with a total cabinet width of 16.4'

2.04 VIDEO CONTROL/OPERATIONS SYSTEM
A. General Information
1. Product: 1V Input Control System
2. Show Control software on computer or laptop.
3. Fiber conversion box
B. Provide custom spirit animation package for the following sports/events
1. School spirit starter package vol 1, 20 pre-selected animations
2. Static/animated school logo: 4 total
C. Equipment Rack
1. Dimensions: 15" H x 10.65" W x 14" D; 8HU
2. A larger rack may be required based on additional optional equipment.
D. Media Player
1. Provide a Digital Media Player (DMP).
2. Animation rates of up to 60 frames per second
3. Resolution: 1080p 59.94
4. Video Input: up to 1080p 59.94
5. Video Output: DisplayPort to Video Image Processor
6. Audio Output: balanced 3-pin XLR
7. Ports: USB 2.0 @4, USB 3.0 @2
8. Memory: 16 GB DDR4
9. Storage: 1 TB
10. Networking: 10/100/1000 Ethernet (RJ-45 LAN) @2
11. Dimensions: Half-width 1RU; 1.75" H x 8.75" W x 12" D
E. Video Processor
1. Provide a Video Image Processor (VIP).
2. Video Input: DVI from Daktronics DMP
3. Video Output: Daktronics ProLink® 6 (fiber optic) @2
4. Color space conversion: Proprietary LED conversion
5. Networking: 10/100/1000 Ethernet (RJ-45 LAN) @1
6. Dimensions: Half-width 1RU; 1.75" H x 8.75" W x 12" D
F. Network Router
1. 8-port gigabit

2.05 AQUATIC TIMING EQUIPMENT
A. General Information
1. Product (s):
a. Timing Equipment Controller: Omnisport 2000e @ 1
b. Software: A-3325, Omni 2000 Pro Swim software
c. 5 port gigabit switch @ 1
d. Touch pad with gutter bracket, T7078, 78" x 22" T7000 @ 10
e. Touch pad storage cart @ 1
f. Horn start HS-200 @ 1
g. Horn start Backstroke flagpole mounting bracket @ 1
h. 5.4" individual lane speaker @ 10

i. Backup push button, 5' cable @ 20
j. Timing cables @ 1
k. Individual in-deck lane deck plate @ 10
l. Start speaker deck plate @ 1
m. Wall plate 15 x 15 @ 1
n. Lane Interface Module @ 1
o. Relay Take Off Platforms for 23' wide platforms @ 10
p. Relay Take Off Platform cart @ 1

PART 3 EXECUTION

3.01 EXAMINATION
A. Verify that mounting structure is ready to receive the display. Verify that placement of conduit and junction boxes are as specified and indicated in plans and shop drawings. Verify concrete has cured according to specifications.

3.02 INSTALLATION
A. All power and control cables to display will be routed in conduit. Power to the display as well as raceways shown on electrical plans by the Electrical Contractor. Display control wiring including conduit will be the responsibility of the contractor assigned the display equipment.
B. Install display to beams in location detailed and in accordance with manufacturer's instructions. Verify unit is plumb and level.
C. Manufacturer to supply final commissioning support and connections to display from primary power junction box at base of structure provided by contractor.
D. Manufacture to provide tech support to ensure system is working as specified.

3.03 INSTALLATION—CONTROL CENTER
A. Provide boxes, cover plates and jacks in locations per plans.
B. Test the operation of the display, controller, and all control jacks; leave control unit and other loose items with owner's designated representative.
C. Conduct operator training on the display/controller operation.
D. Manufacturer must supply all required signal conversion hardware to allow for direct wire control of electronic display.

END OF SECTION

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CHINO HILLS HIGH SCHOOL
AQUATIC SCOREBOARD REPLACEMENT

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Consultant

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LICENSED ARCHITECT
ROGER LAVEY
EXPIRES
6-30-2023
STATE OF CALIFORNIA

CLIENT
Chino Valley Unified School District

DATE	PROJECT NUMBER
7/1/2022	W2105800AR

REVISIONS

No.	Description	Date

100% CD SUBMITTAL

SPECIFICATION

A1.4

GENERAL NOTES

1. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS AND SERVICES REQUIRED FOR THIS COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEMS AS INDICATED AND SPECIFIED. ALL WORK SHALL BE NEW UNLESS NOTED OR SHOWN OTHERWISE.
2. ALL ELECTRICAL EQUIPMENT MATERIAL AND DETAILS OF INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST REVISIONS OF THE NATIONAL ELECTRICAL CODE OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, OF THE STATE OF CALIFORNIA TITLE 24, BASIC ELECTRICAL REGULATIONS OF THE STATE FIRE MARSHALL AND OTHER APPLICABLE CODES. NOTHING IN THE PLANS OR THESE SPECIFICATIONS SHALL BE CONSTRUED AS PERMITTING WORK NOT CONFORMING TO THE MOST STRINGENT OF THE APPLICABLE CODES.
3. THE BIDDER SHALL VISIT THE SITE AND MAKE A SURVEY OF EXISTING CONDITIONS WHICH MAY AFFECT OR BE AFFECTED BY THE WORK UNDER THIS SECTION. REFERENCE MADE IN THE SPECIFICATIONS OR ON THE DRAWINGS TO EXISTING WORK OR CORRECTNESS OF WAYS AND MEANS OF PERFORMING SHALL BE SUBJECT TO VERIFICATIONS BY THE CONTRACTOR IN HIS SURVEY AND ON THE PROGRESS OF THE WORK.
4. WIRE SHALL BE COPPER TYPE THWN-2 OR XHHW-2. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS NOTED OTHERWISE. WIRES SMALLER THAN #6 AWG SHALL BE SOLID AND #6 AWG AND LARGE SHALL BE STRANDED.
5. SPLICES IN #10 AWG AND SMALLER CONDUCTORS SHALL BE MADE WITH CONICAL SHAPED SPRING STEEL CONNECTORS PLATED FOR CORROSION PROTECTION. CONNECTORS MAY HAVE AN INSULATING, SEMI-RIGID OUTER SHELL. TWIST ON CONNECTORS OF PHENOLIC COMPOUND OR CRIMP-TYPE CONNECTIONS SHALL NOT BE USED.
6. WHEREVER CONDUCTORS ARE SPLICED OR TERMINATED IN A JUNCTION OR PULLBOX THEY SHALL BE MARKED WITH THEIR CIRCUIT NUMBER USING "BRADY" ADHESIVE MARKERS.
7. ALL EXPOSED EXTERIOR CONDUIT SHALL BE GALVANIZED RIGID CONDUIT (GRC). ALL UNDERGROUND COUIT SHALL BE PVC SCH 40.
8. FLEXIBLE STEEL CONDUIT SHALL BE GALVANIZED WITH FLEXIBLE OR CADMIUM-PLATED CONNECTORS OF THE TWIST-IN TYPE. FLEXIBLE CONDUIT SHALL ONLY BE USED AS APPROVED BY THE ENGINEER.
9. ALL EMPTY CONDUITS SHALL HAVE A 1/8" DIAMETER NYLON PULL CORD UNLESS OTHERWISE SPECIFIED.
10. ALL CONDUITS RUN EXPOSED SHALL BE INSTALLED PARALLEL OR AT RIGHT ANGLES TO BUILDING CONSTRUCTION OR METAL STRUCTURE.
11. BOXES SHALL BE GALVANIZED OR SHERARDIZED ONE PIECE PRESSED STEEL KNOCKOUT TYPE. MINIMUM SIZE BOX SHALL BE 4" BY 1 1/2" DEEP UNLESS OTHERWISE SPECIFIED OR INDICATED. BOXES SHALL HAVE PLASTER RINGS AS REQUIRED.
12. WIRING INSTALLED CONCEALED ABOVE GROUND IN DRY PLACES NOT IN CONCRETE WHERE NOT SUBJECT TO MECHANICAL DAMAGE SHALL BE IN EMT OR RIGID STEEL CONDUIT.
13. IN PANELS, PULLBOXES, OUTLET BOXES, GUTTERS, ETC., CONDUCTOR SHALL BE TIED WITH PLASTIC TIES, NEATLY FANNED OUT AND TAGGED WITH ADHESIVE MARKERS WHICH ARE CLEARLY MARKED WITH CIRCUIT NUMBERS, ALL IN AN APPROVED WORKMANLIKE MANNER.
14. ALL ELECTRICAL EQUIPMENT SHALL BE EMBRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE OF 20% OF ITS OPERATING WEIGHT ACTING IN ANY DIRECTION. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ELECTRICAL ENGINEER.
15. FINAL INSPECTION AND ACCEPTANCE: AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, THE PROJECT INSPECTOR WILL INSPECT THE WORK. CONTRACTOR SHALL PROVIDE COMPETENT PERSONAL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM, TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.
16. THE CONTRACTOR SHALL FURNISH ONE (1) YEAR WRITTEN GUARANTEE ON MATERIALS AND WORKMANSHIP, UNLESS MORE RESTRICTIVE WARRANTIES ARE NOTED IN SPECIFIED SECTIONS, FROM DATE OF ACCEPTANCE.
17. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF RECORD DRAWINGS AND AFTER COMPLETION OF HIS WORK TURN THEM OVER TO THE ENGINEER/OWNER.
18. ALL ELECTRICAL EQUIPMENTS SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.
19. ALL UNDERGROUND CONDUITS SHALL BE ENCASED IN SLURRY CONCRETE.
20. EXACT LOCATION OF ALL EQUIPMENT SHALL BE AS INDICATED ON THE ARCHITECTURAL PLANS.
21. UNLESS OTHERWISE NOTED, MOUNTING HEIGHTS INDICATED ON ELECTRICAL OUTLETS ARE FROM FINISHED FLOOR TO CENTER OF OUTLETS.
22. NO CONDUIT SHALL BE RUN HORIZONTALLY IN CONCRETE FLOOR SLABS.
23. ALL FINAL CONNECTIONS TO OWNER-FURNISHED EQUIPMENT SHALL BE MADE BY THIS CONTRACTOR.

MEP EQUIPMENT ANCHOARAGE NOTE

ALL MECHANICAL, PLUMBINNG, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWNG COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30:

A. ALL PERMANENT EQUIPMENT AND COMPONENTS
B. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
C. TEMPORARY, MOVABLE EQUIPMENT THAT IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIREDTO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRUBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.25 AND 1617A.1.26..

THE METHOD OF SHOWNG BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (e.g., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E ☑ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E ☐ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM#) #_____.

9. PROOF LOAD TEST FOR EXPANSION, TYPE ANCHOR BOLTS (BOLTS MUST HAVE I.C.B.O. APPROVAL).

ALL CONCRETE ANCHOR BOLT OF THE EXPANSION TYPE (LOADED IN EITHER PULLOUT OR SHEAR) SHALL HAVE 50 PERCENT OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT) PROOF TESTED IN TENSION TO TWCE THE ALLOWABLE TENSION LOAD. IF THERE ARE ANY FAILURES, THE IMMEDIATELY ADJACENT BOLTS MUST THEN ALSO BE TESTED.

TYPE OF MATERIALS	TYPE OF TEST	BOLT DIAMETER 3/8"	1/2"	5/8"	3/4"
HARD ROCK CONCRETE	DIRECT PULL-TENSION,LBS. TORQUE WRENCH-TORQUE,FT.LBS.	1300 25	2000 50	2900 110	4300 150
LT.WT. CONCRETE	DIRECT PULL-TENSION,LBS. TORQUE WRENCH-TORQUE,FT.LBS.	970	1400 20	1950 35	2590 75

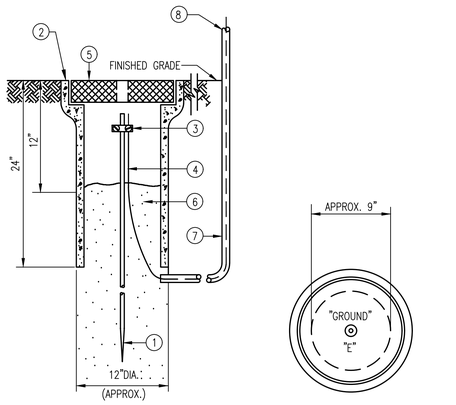
10. ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR OTHERS AND THOSE SHOWN ON THE RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE OWNER BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PERSUANT THERETO AGREES TO ASSUME LIABILITY AND TO HOLD THE ENGINEER HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE ENGINEER; NOT INDICATED ON THE PUBLIC RECORDS EXAMINED; LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARRING WORK.
11. ALL EXPOSED CONDUIT SHALL BE PAINTED TO MATCH EXISTING FINISH.
12. THE CONTRACTOR SHALL NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE FIELD VERIFIED.
13. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER THE SHUT-DOWN SCHEDULE AND TIME REQUIRED PRIOR TO DEMOLITION AND INSTALLATION OF NEW CONDUIT, WIRE AND PANELBOARDS FROM THE EXISTING SYSTEM. THE SHUT-DOWN SHALL BE SCHEDULED IN SUCH A MANNER TO MINIMIZE INTERRUPTION OF REGULAR ACTIVITIES. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL PREMIUM TIME REQUIRED FOR THE NEW CONNECTIONS. (NO EXCEPTION WILL BE TAKEN DURING NORMAL BUSINESS HOURS).
14. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR ALL TRENCHING, BACKFILLING SAW CUTTING AND REFINISHING OF SURFACES. FINISHES TO MATCH EXISTING. (NEW EXPOSED CONDUIT TO BE PAINTED TO MATCH EXISTING FINISH).

APPLICABLE CODES

1. 2022 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2. 2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2018 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2022 CALIFORNIA AMENDMENTS)
3. 2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2017 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
4. 2019 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2018 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
5. 2019 CALIFORNIA PLUMBING CODE (CPC), PART 5 TITLE 24 C.C.R. (2018 UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
6. 2019 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
7. 2019 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2018 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
8. 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
9. 2019 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
10. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
———	CONDUIT RUN, CONCEALED IN CEILING, WALLS OR BELOW ROOF. CONDUIT MAY BE CONCEALED BELOW SLAB AS PERMITTED BY ENGINEER.
#10	CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 WIRES CONTAINED THEREIN. GROUND WIRE IS REQUIRED BUT NO INDICATED. TWO #12 ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12.
B-1,3,5-7	CONDUIT HOME RUN TO PANELBOARD. LETTER AND NUMERALS INDICATES ELECTRICAL PANEL AND CIRCUIT NUMBER. CIRCUITS 1,3,5 WITH SHARED NEUTRAL AND CIRCUIT 7 WITH DEDICATED NEUTRAL.
#10	CONDUIT HOMERUM FOR ISOLATED GROUND RECEPTACLE (2#12 & 1#10 GROUND).
C.O.	CONDUIT ONLY, WITH PULL ROPE.
	DUPLEX GROUNDING TYPE RECEPTACLE WALL MOUNTED (+18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED).
	DOUBLE DUPLEX GROUNDING TYPE RECEPTACLE, WALL MOUNTED (+18" ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED).
GFI	"GFI" ADJACENT TO SYMBOL INDICATES GROUND FAULT INTERRUPTING TYPE RECEPTACLE
	JUNCTION BOX
	BRANCH CIRCUIT PANEL, MOUNTING AS SHOWN ON SCHEDULES.
	DISCONNECT SWITCH
Sm	MOTOR RATED SWITCH
	PANEL DESIGNATION.
CTB	COMMUNICATIONS TERMINAL BOARD.
MDF	MAIN DISTRIBUTION FRAME.
IDF	INTERMEDIATE DISTRIBUTION FRAME
(E)	EXISTING EQUIPMENT TO REMAIN
(R)	REMOVE EQUIPMENT
(RR)	REMOVE EQUIPMENT AND RELOCATE TO NEW LOCATION
(ER)	NEW LOCATION OF EXISTING RELOCATED EQUIPMENT. EXTEND CONDUIT AND RE-CONNECT TO EXISTING CIRCUIT OR SYSTEM FOR COMPLETE AND OPERABLE SYSTEM.
(N)	NEW EQUIPMENT AND CONDUIT



SPECIAL NOTES:

1. #4 REBAR OR 1/2" ø X 10'-0" COPPER CLAD DRIVEN GROUND ROD
2. PRECAST GROUND ELECTRODE ENCLOSURE
3. GROUND CONNECTOR
4. #6(MIN.)BARE COPER GROUNDING CONDUCTOR
5. STEEL TRAFFIC TYPE COVER WITH HOOK HOLE AND ETCHED WORDS "GROUND"
6. SAND BACKFILL 1/2 CUBIC YARD MINIMUM
7. SCHEDULE 40 PVC CONDUIT WITH BARE COPPER GROUNDING CABLE
8. CONNECT TO METAL PART

GROUND WELL

NTS | 1

EXISTING

VOLTAGE 120/208 3ø, 4W. PANEL SP LOCATION POOL EQUIPMENT ROOM
BUS AMPS 225 TOP FEED ☐ SURFACE MTG.☒
MAIN BREAKER ☒ 225 A.F. 150 A.T. BOTTOM FEED ☒ FLUSH MTG. ☐
LUGS ONLY ☐ REMARKS

	DESCRIPTION	VOLT-AMPS A	B	C	LCL	OUTLETS L	R	M	CKT B	BUS A	B	C	CKT	CB	OUTLETS L	R	M	LCL	VOLT-AMPS A	B	C	DESCRIPTION	
(E)	UNDER WATER LIGHTS	140							20/1	1			2	50/2			1		4008			POOL VIDEO BOARD	(N)*
	UNDER WATER LIGHTS		140						20/1	3			4	–		–				4008		–	
	UNDER WATER LIGHTS			140					20/1	5			6	20/1							720	TIMER SYSTEM RECEPT	(E)
	UNDER WATER LIGHTS	140							20/1	7			8	20/1					720			TIMER SYSTEM RECEPT	
	UNDER WATER LIGHTS		140						20/1	9			10	20/1						500		SUMP PUMP	
	UNDER WATER LIGHTS			140					20/1	11			12	20/1							500	CHLORINE	
	UNDER WATER LIGHTS	140							20/1	13			14	20/1					1200			FILTER AFC	
	UNDER WATER LIGHTS		140						20/1	15			16	20/1						1200		PRESSURE AMP SYSTEM	
	UNDER WATER LIGHTS			140					20/1	17			18	20/1							1200	WATER CHEM CONTROL	
	UNDER WATER LIGHTS	140							20/1	19			20	20/1					360			WATER CHEM RELAY	
	UNDER WATER LIGHTS		140						20/1	21			22	20/1						360		CIRC PUMP INTERCON	
	UNDER WATER LIGHTS			140					20/1	23			24	20/1							360	CIRC PUMP METER CONTROL	
	UNDER WATER LIGHTS	140							20/1	25			26	20/1					1440			HEATER IGNITOR/ FAN	
	UNDER WATER LIGHTS		140						20/1	27			28	30/1						2100		HEATER RE-CIRC PUMP	
	UNDER WATER LIGHTS			140					20/1	29			30									SPACE	
	UNDER WATER LIGHTS	140							20/1	31			32	20/1					1440			HEATER IGNITOR/FAN	
	SUMP PUMP		830						20/1	33			34	30/1						2100		HEATER RE-CIRC PUMP	
	SPARE								20/1	35			36									SPACE	
	SPARE								20/1	37			38	20/1					960			CHEMICAL FEEDS	
	SPARE								20/1	39			40	30/2						1920		CO2 SYSTEM	
	SPARE								20/1	41			42	–							1920	–	
	SUB TOTALS	840	1530	700															10128	12188	4700	SUB TOTALS	

CONN. PHASE TOTAL: A 10968 B 13718 C 5400 ; CONN. PANEL TOTAL 30086 VA; MAX. CONN. LINE CURRENT 114 AMPS
(KVA) PANEL TOTAL 30.09 + L.C.L. (.25) 0.00 = 30.09 KVA; BALANCED CURRENT 84 AMPS; DESIGN LOAD KVA

* NOTE: REMOVE EXISTING CIRCUIT BREAKER AND INSTALL NEW CIRCUIT BREAKER TO MATCH EXISTING AIC RATING.

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SCOREBOARDS REPLACEMENT

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DATE	PROJECT NUMBER
12/16/2022	W2105800AR

REVISIONS

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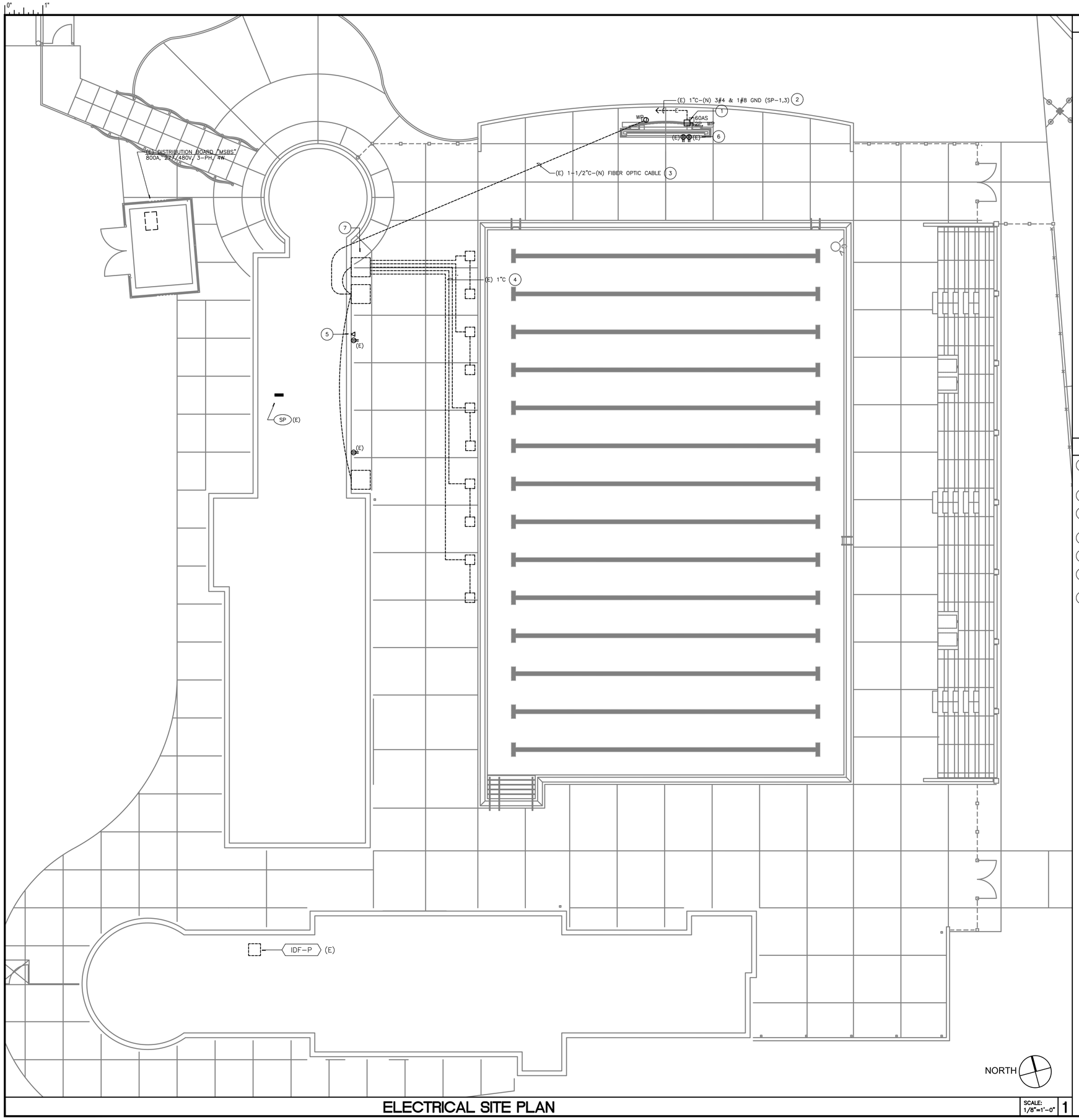
ELECTRICAL GENERAL NOTES, SYMBOLS & DETAILS

E-1



ELECTRICAL SITE PLAN

SCALE: 1/8"=1'-0" | 1

NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE AND MAKE SURVEY OF EXISTING CONDITIONS WHICH MAY AFFECT OR BE AFFECTED BY THE WORK UNDER THIS SECTION. REFERENCE MADE IN THESE SPECIFICATIONS OR ON THE DRAWINGS TO EXISTING WORK OR CORRECTNESS OF WAYS AND MEANS OF PERFORMING SHALL BE SUBJECT TO VERIFICATIONS BY THE CONTRACTOR IN HIS SURVEY AND ON THE PROGRESS OF THE WORK.
2. THE CONTRACTOR SHALL VISIT THE JOB SITE TO ACQUAINT HIMSELF WITH ACTUAL CONDITIONS OF EXISTING AND TO BECOME FAMILIAR WITH THE TOTAL SCOPE OF WORK REQUIRED. SUBMISSION OF BID WILL BE INDICATION THAT CONTRACTOR HAS MADE VISUAL INSPECTION OF THE SITE, HAS REVIEWED ALL PLANS AND AS-BUILT DRAWINGS, OUTLINE REQUIREMENTS AND HAS INCLUDED IN THE PRICE ALL LABOR, MATERIALS AND EQUIPMENT TO COMPLETE THE ELECTRICAL WORK.
3. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DO ALL CORING, CUTTING, PATCHING AND REFINISHING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY FOR HIM TO PENETRATE FOR HIS WORK. ALL OPENINGS MADE SHALL BE SEALED TO MEET THE RATED INTEGRITY OF THE PARTICULAR WALL, FLOOR OR CEILING.
4. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO MAINTAIN CONTINUITY OF EXISTING SYSTEM, EQUIPMENT, ETC. REMAINING IN OPERATION. WHERE AN EXISTING OUTLET DEVICE IS BEING FED BY AN ABANDON OUTLET, MAINTAINING CONTINUITY SHALL CONSIST OF RE-ROUTING OF CONDUIT, WIRE, ETC. AS REQUIRED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND VERIFYING, THE EXACT LOCATION OF THE "POWER AND "SIGNAL" PULLBOXES FOR THE PROPER INTERFACE WITH THE UNDERGROUND CONDUIT STUB-UPS.
6. WHERE EXISTING CONDUIT STUB-OUTS ARE TO BE INTERCEPTED, THE CONTRACTOR SHALL VERIFY THE ACTUAL ROUTING OF THE EXISTING CONDUITS AND DETERMINE THE ACTUAL POINT OF INTERCEPTION THE FIELD.
7. LOCATION OF UNDERGROUND PULLBOXES AND CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL PULLBOX LOCATION AND ROUTING OF UNDERGROUND CONDUITS SHALL BE VERIFIED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES.
8. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO MAINTAIN REQUIRED CLEARANCES BETWEEN UNDERGROUND ELECTRICAL CONDUITS AND FOOTINGS. CONDUIT STUB-UPS SHALL NOT BE INSTALLED IN FOOTINGS, EXACT METHOD FOR STUBBING-UP CONDUITS AT FOOTINGS LOCATIONS SHALL COORDINATED IN THE FIELD WITH THE ARCHITECT.
9. PROTECT EXISTING CONCRETE, WALKWAY, ELECTRICAL FOR TRENCHING TO BE WITHIN LANDSCAPE AREA UNLESS WHERE NECESSARY. PATCH CONCRETE TO MATCH SURROUNDING WHERE NECESSARY.
10. VERIFY EXACT LOCATION OF NEW EQUIPMENTS MOUNTING IN FIELD.
11. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH SCOREBOARD MANUFACTURER FOR REQUIREMENTS FOR COMPLETE AND OPERABLE SYSTEM.
12. REFER TO SCOREBOARD DRAWINGS FOR MOUNTING AND INSTALLATION DETAIL. BOND ALL METAL PARTS.

REFERENCE NOTES

1. DISCONNECT CONNECTION TO EXISTING SCOREBOARD AND INSTALL NEW DISCONNECT SWITCH (SIZE AS SHOWN ON PLAN). INSTALL 1/2"C-1#6 GND TO 3/4" x 10 FT. GROUND ROD CONNECTED TO METAL STRUCTURE AND BOND ALL METAL PARTS. VERIFY EXACT LOCATION AND QUANTITY OF DISCONNECT SWITCH IN FIELD.
2. REMOVE EXISTING CONDUCTORS AND INSTALL NEW CONDUCTORS IN EXISTING CONDUIT FROM EXISTING PANEL TO NEW SCOREBOARD. VERIFY EXACT ROUTING IN FIELD.
3. REMOVE EXISTING DATA CABLE AND INSTALL NEW FIBER OPTIC CABLE (WET LOCATION RATED) FROM EXISTING IDF TO NEW SCOREBOARD. VERIFY EXACT ROUTING AND OTHER REQUIREMENTS WITH DAKTRONIC.
4. REMOVE EXISTING SIGNAL CABLE AND REPLACE WITH NEW DAKTRONIC LANE EXTENSION CABLE. . TYPICAL FOR EACH POOL LANE.
5. INSTALL (2) CAT 6A JACK IN WEATHERPROOF ENCLOSURE AND CAT 6A DATA CABLES TO EXISTING IDF. VERIFY EXACT LOCATION IN FIELD.
6. RE-INSTALL EXISTING RECEPTACLES AND DIGITAL LIGHTING CONTROL SWITCH IN WEATHERPROOF ENCLOSURE AFTER INSTALLATION OF NEW SCOREBOARD HAS BEEN COMPLETED. VERIFY EXACT LOCATION AND MOUNTING HEIGHT IN FIELD.
7. REMOVE EXISTING LANE CABLE CONNECTORS AND INSTALL NEW DAKTRONIC CABLE CONNECTORS ON EXISTING CONCRETE PEDESTAL. VERIFY EXACT LOCATION AND OTHER REQUIREMENTS WITH DAKTRONIC.

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ELECTRICAL SITE PLAN

E-2