

ADD FOUR SHADE STRUCTURES AT LA PALOMA ELEMENTARY SCHOOL

SYMBOLS LEGEND		ABBREVIATIONS		PROJECT TEAM		SUMMARY OF WORK		SHEET INDEX			
<div><div><div><div><div></div><div></div></div><div>78</div><div></div></div><div><div><div></div><div></div></div><div>71</div><div></div></div></div><div>INDICATES SLOPE</div><div><div><div></div><div></div></div><div>2</div><div>A4</div></div><div>DETAIL NUMBER</div><div><div><div></div><div></div></div><div>C</div><div>A4</div></div><div>SECTION NUMBER</div><div><div><div></div><div></div></div><div>26</div><div></div></div><div>DOOR NUMBER</div><div><div><div></div><div></div></div><div>26</div><div></div></div><div>WINDOW NUMBER</div><div><div><div></div><div></div></div><div></div><div></div></div><div>CONCRETE</div><div><div><div></div><div></div></div><div></div><div></div></div><div>SOIL</div><div><div><div></div><div></div></div><div></div><div></div></div><div>PLYWOOD</div><div><div><div></div><div></div></div><div></div><div></div></div><div>STEEL</div><div><div><div></div><div></div></div><div></div><div></div></div><div>WOOD BLOCKING</div><div><div><div></div><div></div></div><div></div><div></div></div><div>WOOD CONTINUOUS MEMBER</div><div><div><div></div><div></div></div><div></div><div></div></div><div>GYP. BD.</div><div><div><div></div><div></div></div><div></div><div></div></div><div>WORK POINT, CONNECTION POINT</div><div><div><div></div><div></div></div><div>1</div><div>2</div><div>3</div></div><div>INTERIOR ELEVATION</div><div><div><div></div><div></div></div><div>1029</div><div></div></div><div>ROOM NUMBER</div><div><div><div></div><div></div></div><div></div><div></div></div><div>NEW CONSTRUCTION</div><div><div><div></div><div></div></div><div></div><div></div></div><div>EXISTING TO REMAIN</div><div><div><div></div><div></div></div><div></div><div></div></div><div>FINISH MATERIAL TO ALIGN</div><div><div><div></div><div></div></div><div>12</div><div></div></div><div>KEY NOTE</div></div>		<div><div><div><div><div></div><div></div></div><div>Ø</div><div></div></div><div><div><div></div><div></div></div><div>&</div><div></div></div><div><div><div></div><div></div></div><div>¢</div><div></div></div><div><div><div></div><div></div></div><div>#</div><div></div></div><div><div><div></div><div></div></div><div>A.B.</div><div></div></div><div><div><div></div><div></div></div><div>ABV.</div><div></div></div><div><div><div></div><div></div></div><div>ACOUST.</div><div></div></div><div><div><div></div><div></div></div><div>A.C.</div><div></div></div><div><div><div></div><div></div></div><div>ADJ.</div><div></div></div><div><div><div></div><div></div></div><div>A.F.F.</div><div></div></div><div><div><div></div><div></div></div><div>A.F.G.</div><div></div></div><div><div><div></div><div></div></div><div>ALUM.</div><div></div></div><div><div><div></div><div></div></div><div>ARCH.</div><div></div></div><div><div><div></div><div></div></div><div>BD.</div><div></div></div><div><div><div></div><div></div></div><div>BLDG.</div><div></div></div><div><div><div></div><div></div></div><div>BLKG.</div><div></div></div><div><div><div></div><div></div></div><div>BM.</div><div></div></div><div><div><div></div><div></div></div><div>BOT.</div><div></div></div><div><div><div></div><div></div></div><div>CAB.</div><div></div></div><div><div><div></div><div></div></div><div>C.B.</div><div></div></div><div><div><div></div><div></div></div><div>C.F.O.I.</div><div></div></div><div><div><div></div><div></div></div><div>C.I.P.</div><div></div></div><div><div><div></div><div></div></div><div>C.J.</div><div></div></div><div><div><div></div><div></div></div><div>C.L.</div><div></div></div><div><div><div></div><div></div></div><div>CLG.</div><div></div></div><div><div><div></div><div></div></div><div>CLF.</div><div></div></div><div><div><div></div><div></div></div><div>CMU</div><div></div></div><div><div><div></div><div></div></div><div>C.O.</div><div></div></div><div><div><div></div><div></div></div><div>COL.</div><div></div></div><div><div><div></div><div></div></div><div>CONC.</div><div></div></div><div><div><div></div><div></div></div><div>CONSTR.</div><div></div></div><div><div><div></div><div></div></div><div>CONT.</div><div></div></div><div><div><div></div><div></div></div><div>CORR.</div><div></div></div><div><div><div></div><div></div></div><div>DBL.</div><div></div></div><div><div><div></div><div></div></div><div>DF.</div><div></div></div><div><div><div></div><div></div></div><div>DG</div><div></div></div><div><div><div></div><div></div></div><div>DIA.</div><div></div></div><div><div><div></div><div></div></div><div>DIAG.</div><div></div></div><div><div><div></div><div></div></div><div>DIM.</div><div></div></div><div><div><div></div><div></div></div><div>DISP.</div><div></div></div><div><div><div></div><div></div></div><div>DN.</div><div></div></div><div><div><div></div><div></div></div><div>DR.</div><div></div></div><div><div><div></div><div></div></div><div>D.S.</div><div></div></div><div><div><div></div><div></div></div><div>DWG</div><div></div></div><div><div><div></div><div></div></div><div>(E)</div><div></div></div><div><div><div></div><div></div></div><div>EA</div><div></div></div><div><div><div></div><div></div></div><div>E.J.</div><div></div></div><div><div><div></div><div></div></div><div>ELECT.</div><div></div></div><div><div><div></div><div></div></div><div>ELEV.</div><div></div></div><div><div><div></div><div></div></div><div>ENCL.</div><div></div></div><div><div><div></div><div></div></div><div>EQ.</div><div></div></div><div><div><div></div><div></div></div><div>EQUIP.</div><div></div></div><div><div><div></div><div></div></div><div>EXIST.</div><div></div></div><div><div><div></div><div></div></div><div>EXT.</div><div></div></div><div><div><div></div><div></div></div><div>F.B.</div><div></div></div><div><div><div></div><div></div></div><div>F.D.</div><div></div></div><div><div><div></div><div></div></div><div>FDN.</div><div></div></div><div><div><div></div><div></div></div><div>F.E.</div><div></div></div><div><div><div></div><div></div></div><div>F.E.C.</div><div></div></div><div><div><div></div><div></div></div><div>F.F.</div><div></div></div><div><div><div></div><div></div></div><div>FIN.</div><div></div></div><div><div><div></div><div></div></div><div>FLASH'G</div><div></div></div><div><div><div></div><div></div></div><div>FLR.</div><div></div></div><div><div><div></div><div></div></div><div>F.O.C.</div><div></div></div><div><div><div></div><div></div></div><div>F.O.F.</div><div></div></div><div><div><div></div><div></div></div><div>F.O.M.</div><div></div></div><div><div><div></div><div></div></div><div>F.O.S.</div><div></div></div><div><div><div></div><div></div></div><div>FRAM'G</div><div></div></div><div><div><div></div><div></div></div><div>FRP</div><div></div></div><div><div><div></div><div></div></div><div>FT.</div><div></div></div><div><div><div></div><div></div></div><div>FTG.</div><div></div></div><div><div><div></div><div></div></div><div>F.V.</div><div></div></div><div><div><div></div><div></div></div><div>GA.</div><div></div></div><div><div><div></div><div></div></div><div>GALV.</div><div></div></div><div><div><div></div><div></div></div><div>G.I.</div><div></div></div><div><div><div></div><div></div></div><div>GL.</div><div></div></div><div><div><div></div><div></div></div><div>GLB.</div><div></div></div><div><div><div></div><div></div></div><div>GLU-LAM 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BD.</div><div></div></div><div><div><div></div><div></div></div><div>H.C.</div><div></div></div><div><div><div></div><div></div></div><div>H.D.</div><div></div></div><div><div><div></div><div></div></div><div>HDWR.</div><div></div></div><div><div><div></div><div></div></div><div>HDR.</div><div></div></div><div><div><div></div><div></div></div><div>HGR.</div><div></div></div><div><div><div></div><div></div></div><div>HORIZ.</div><div></div></div><div><div><div></div><div></div></div><div>H.M.</div><div></div></div><div><div><div></div><div></div></div><div>HR</div><div></div></div><div><div><div></div><div></div></div><div>HT.</div><div></div></div><div><div><div></div><div></div></div><div>INSUL.</div><div></div></div><div><div><div></div><div></div></div><div>INT.</div><div></div></div><div><div><div></div><div></div></div><div>I.S.A.</div><div></div></div><div><div><div></div><div></div></div><div>ACCESSIBILITY</div><div></div></div><div><div><div></div><div></div></div><div>JT.</div><div></div></div><div><div><div></div><div></div></div><div>JST.</div><div></div></div><div><div><div></div><div></div></div><div>LAM.</div><div></div></div><div><div><div></div><div></div></div><div>LAV.</div><div></div></div><div><div><div></div><div></div></div><div>LT.</div><div></div></div><div><div><div></div><div></div></div><div>MFR.</div><div></div></div><div><div><div></div><div></div></div><div>DIAMETER</div><div></div></div><div><div><div></div><div></div></div><div>AND</div><div></div></div><div><div><div></div><div></div></div><div>CENTERLINE</div><div></div></div><div><div><div></div><div></div></div><div>POUND OR NUMBER</div><div></div></div><div><div><div></div><div></div></div><div>ANCHOR BOLT</div><div></div></div><div><div><div></div><div></div></div><div>ABOVE</div><div></div></div><div><div><div></div><div></div></div><div>ACOUSTICAL</div><div></div></div><div><div><div></div><div></div></div><div>ASPHALT CONCRETE</div><div></div></div><div><div><div></div><div></div></div><div>ADJUSTABLE</div><div></div></div><div><div><div></div><div></div></div><div>ABOVE FINISH FLOOR</div><div></div></div><div><div><div></div><div></div></div><div>ABOVE FINISH GRADE</div><div></div></div><div><div><div></div><div></div></div><div>ALUMINUM</div><div></div></div><div><div><div></div><div></div></div><div>ARCHITECTURAL</div><div></div></div><div><div><div></div><div></div></div><div>BOARD</div><div></div></div><div><div><div></div><div></div></div><div>BUILDING</div><div></div></div><div><div><div></div><div></div></div><div>BLOCKING</div><div></div></div><div><div><div></div><div></div></div><div>BEAM</div><div></div></div><div><div><div></div><div></div></div><div>BOTTOM</div><div></div></div><div><div><div></div><div></div></div><div>CABINET</div><div></div></div><div><div><div></div><div></div></div><div>CATCH BASIN</div><div></div></div><div><div><div></div><div></div></div><div>CONTRACTOR FURNISHED</div><div></div></div><div><div><div></div><div></div></div><div>OWNER INSTALLED</div><div></div></div><div><div><div></div><div></div></div><div>C.I.P.</div><div></div></div><div><div><div></div><div></div></div><div>C.J.</div><div></div></div><div><div><div></div><div></div></div><div>C.L.</div><div></div></div><div><div><div></div><div></div></div><div>CLG.</div><div></div></div><div><div><div></div><div></div></div><div>CLF.</div><div></div></div><div><div><div></div><div></div></div><div>CMU</div><div></div></div><div><div><div></div><div></div></div><div>C.O.</div><div></div></div><div><div><div></div><div></div></div><div>COL.</div><div></div></div><div><div><div></div><div></div></div><div>CONC.</div><div></div></div><div><div><div></div><div></div></div><div>CONSTRUCTION</div><div></div></div><div><div><div></div><div></div></div><div>CONTINUOUS</div><div></div></div><div><div><div></div><div></div></div><div>CORRIDOR</div><div></div></div><div><div><div></div><div></div></div><div>DOUBLE</div><div></div></div><div><div><div></div><div></div></div><div>DOUGLAS FIR</div><div></div></div><div><div><div></div><div></div></div><div>DECOMPOSED GRANITE</div><div></div></div><div><div><div></div><div></div></div><div>DIA.</div><div></div></div><div><div><div></div><div></div></div><div>DIAGONAL</div><div></div></div><div><div><div></div><div></div></div><div>DIM.</div><div></div></div><div><div><div></div><div></div></div><div>DISP.</div><div></div></div><div><div><div></div><div></div></div><div>DOWN</div><div></div></div><div><div><div></div><div></div></div><div>DOOR</div><div></div></div><div><div><div></div><div></div></div><div>D.S.</div><div></div></div><div><div><div></div><div></div></div><div>DRAWING</div><div></div></div><div><div><div></div><div></div></div><div>EXISTING</div><div></div></div><div><div><div></div><div></div></div><div>EACH</div><div></div></div><div><div><div></div><div></div></div><div>EXPANSION 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VERIFY</div><div></div></div><div><div><div></div><div></div></div><div>GAUGE</div><div></div></div><div><div><div></div><div></div></div><div>GALVANIZED</div><div></div></div><div><div><div></div><div></div></div><div>GALVANIZED IRON</div><div></div></div><div><div><div></div><div></div></div><div>GLASS</div><div></div></div><div><div><div></div><div></div></div><div>GLU-LAM BEAM</div><div></div></div><div><div><div></div><div></div></div><div>GOVERNMENT</div><div></div></div><div><div><div></div><div></div></div><div>GYP. BOARD</div><div></div></div><div><div><div></div><div></div></div><div>HANDICAPPED</div><div></div></div><div><div><div></div><div></div></div><div>HOLD DOWN</div><div></div></div><div><div><div></div><div></div></div><div>HARDWARE</div><div></div></div><div><div><div></div><div></div></div><div>HEADER</div><div></div></div><div><div><div></div><div></div></div><div>HANGER</div><div></div></div><div><div><div></div><div></div></div><div>HORIZONTAL</div><div></div></div><div><div><div></div><div></div></div><div>HOLLOW METAL</div><div></div></div><div><div><div></div><div></div></div><div>HR</div><div></div></div><div><div><div></div><div></div></div><div>HEIGHT</div><div></div></div><div><div><div></div><div></div></div><div>INSULATION</div><div></div></div><div><div><div></div><div></div></div><div>INTERIOR</div><div></div></div><div><div><div></div><div></div></div><div>INTERNATIONAL 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IOWA STREET</div><div></div></div><div><div><div></div><div></div></div><div>FALLBROOK, CA 92028</div><div></div></div><div><div><div></div><div></div></div><div>(760) 723-7000</div><div></div></div><div><div><div></div><div></div></div><div>ARCHITECTS</div><div></div></div><div><div><div></div><div></div></div><div>ROESLING NAKAMURA TERADA ARCHITECTS, INC. (RNT)</div><div></div></div><div><div><div></div><div></div></div><div>363 FIFTH AVENUE, SUITE 202</div><div></div></div><div><div><div></div><div></div></div><div>SAN DIEGO, CA 92101</div><div></div></div><div><div><div></div><div></div></div><div>(619) 233-1023</div><div></div></div><div><div><div></div><div></div></div><div>FAX: (619) 233-0016</div><div></div></div><div><div><div></div><div></div></div><div>SHADE STRUCTURE MANUFACTURER</div><div></div></div><div><div><div></div><div></div></div><div>USASHADE & Fabric Structures</div><div></div></div><div><div><div></div><div></div></div><div>2580 ESTERS BLVD. SUITE 100</div><div></div></div><div><div><div></div><div></div></div><div>DFW AIRPORT, TX 75261</div><div></div></div><div><div><div></div><div></div></div><div>MANTECA, CA 95336</div><div></div></div><div><div><div></div><div></div></div><div>800-966-5005</div><div></div></div></div></div>		<div><div><div><div><div></div><div></div></div><div>1. INSTALL ONE 40'-0" X 30'-0" FOUR-POST FABRIC SHADE STRUCTURE (DSA PC#04-119454).</div><div></div></div><div><div><div></div><div></div></div><div>2. INSTALL ONE 30'-0" X 20'-0" TWO-POST FABRIC SHADE STRUCTURE (DSA PC#04-119455).</div><div></div></div><div><div><div></div><div></div></div><div>3. INSTALL TWO 20'-0" SQUARE SINGLE-POST SHADE STRUCTURES (DSA PC#04-119454).</div><div></div></div></div></div> <div><div><div><div><div></div><div></div></div><div>DSA REQUIREMENTS</div><div></div></div><div><div><div></div><div></div></div><div>1. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).</div><div></div></div><div><div><div></div><div></div></div><div>2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CHANGE ORDER APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART I, TITLE 24, CCR.</div><div></div></div><div><div><div></div><div></div></div><div>3. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. THE PROJECT INSPECTOR SHALL BE CERTIFIED BY DSA TO INSPECT CLASS 4 MINIMUM CONSTRUCTION.</div><div></div></div></div></div> <div><div><div><div><div></div><div></div></div><div>13 TOTAL SHEETS</div><div></div></div></div></div>		<div><div><div><div><div></div><div></div></div><div>PROJECT SITE</div><div></div></div><div><div><div></div><div></div></div><div>LA PALOMA</div><div></div></div><div><div><div></div><div></div></div><div>ELEMENTARY</div><div></div></div><div><div><div></div><div></div></div><div>SCHOOL</div><div></div></div><div><div><div></div><div></div></div><div>DE LUZ RD.</div><div></div></div><div><div><div></div><div></div></div><div>HEMLOCK LN.</div><div></div></div><div><div><div></div><div></div></div><div>N. STAGECOACH LN.</div><div></div></div><div><div><div></div><div></div></div><div>HAMILTON LN.</div><div></div></div><div><div><div></div><div></div></div><div>GUMTREE LN.</div><div></div></div><div><div><div></div><div></div></div><div>E. MISSION RD.</div><div></div></div><div><div><div></div><div></div></div><div>OLD HWY 1595</div><div></div></div><div><div><div></div><div></div></div><div>RECHE RD.</div><div></div></div><div><div><div></div><div></div></div><div>GIRD RD.</div><div></div></div><div><div><div></div><div></div></div><div>HWY. 76</div><div></div></div><div><div><div></div><div></div></div><div>FALLBROOK ST.</div><div></div></div><div><div><div></div><div></div></div><div>S. MISSION RD.</div><div></div></div><div><div><div></div><div></div></div><div>S. STAGECOACH LANE</div><div></div></div><div><div><div></div><div></div></div><div>CAMP PENDLETON</div><div></div></div><div><div><div></div><div></div></div><div>MARINE CORPS</div><div></div></div><div><div><div></div><div></div></div><div>BASE</div><div></div></div><div><div><div></div><div></div></div><div>NORTH</div><div></div></div></div></div>	



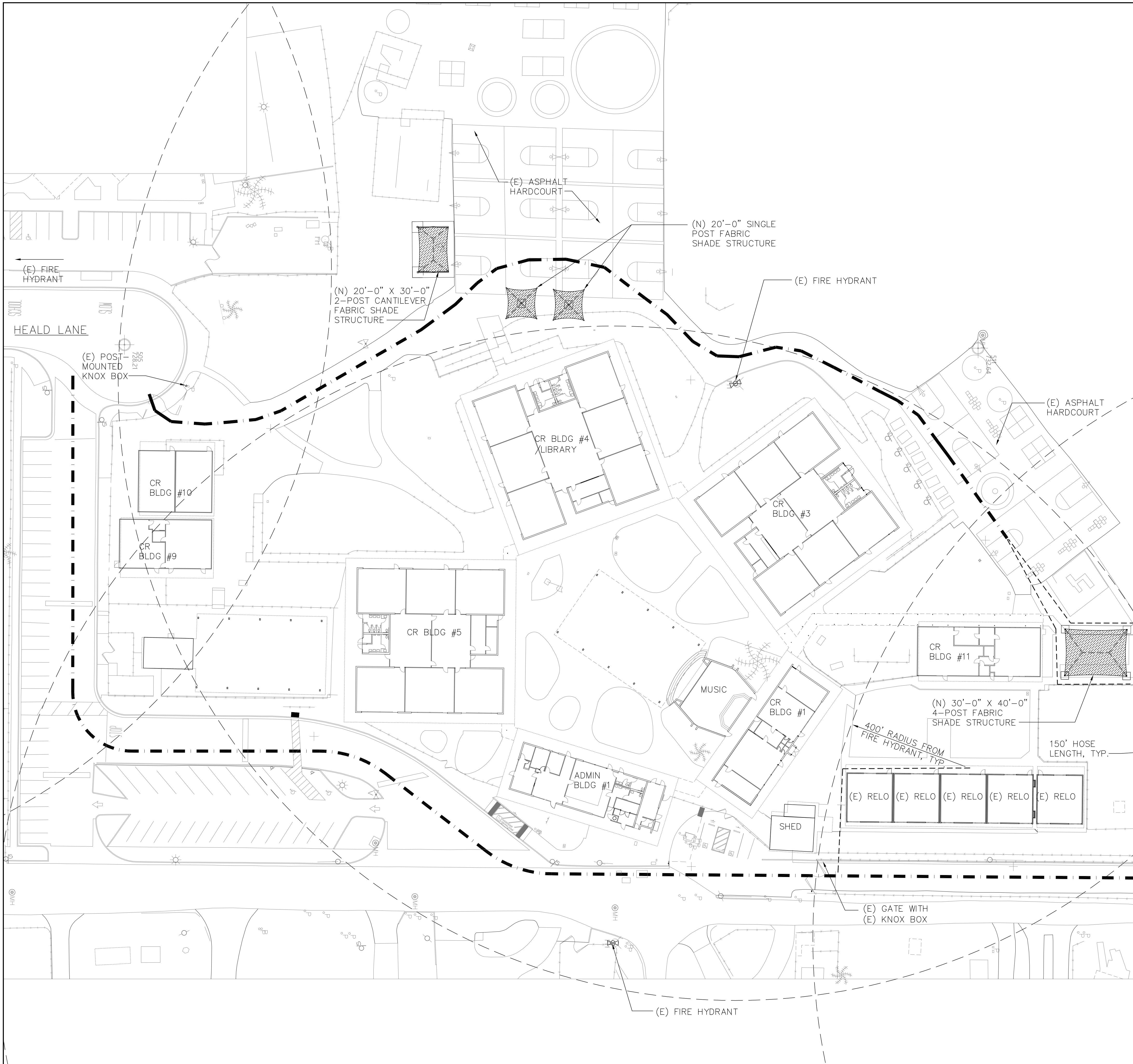
FALLBROOK UNION ELEMENTARY SCHOOL DISTRICT
ADD FOUR SHADE STRUCTURES
LA PALOMA ELEMENTARY SCHOOL
300 HEALD LANE, FALLBROOK, CA 92028

TITLE SHEET



Revisions		
No.	Date	Drawn
Project		
Job No.	962	
Date	08/11/22	
Drawn	JWM	

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LEGEND

-  FIRE ACCESS ROUTE
 150' FIRE HOSE PULL LENGTH
 (E) FIRE HYDRANT



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/Campus: FALLBROOK UNION ELEMENTARY SCHOOL DISTRICT

LA PALOMA ELEMENTARY SCHOOL

Project Address: 300 HEALD LANE, FALLBROOK, CA 92028

FIRE & LIFE SAFETY INFORMATION

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

CONDITION MEANS AND METHODS RESOLUTION

ALTERNATE ACCEPTED

- | | | Yes | No | N/A | N/R |
|-----|---|-----|----|-----|-----|
| 4. | Emergency vehicle access roadways do not meet CFC requirements. | | | | |
| 4a. | Acceptable Alternate: Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property. | | | | |
| 5. | Fire Hydrants: Number and spacing does not meet CFC requirements. | | | | |
| 5a. | Acceptable Alternate: Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property. | | | | |
| 6. | Fire Hydrants: Water flow and pressure are less than CFC minimum. | | | | |
| 6a. | Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property. | | | | |
| 7. | Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements. | | | | |
| 7a. | Acceptable Alternate: The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property. | | | | |

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LEA) INFORMATION

FA Agency Name:

LFA Review Official: _____

1	Title:	Work Phone:
---	--------	-------------

Work Email: _____

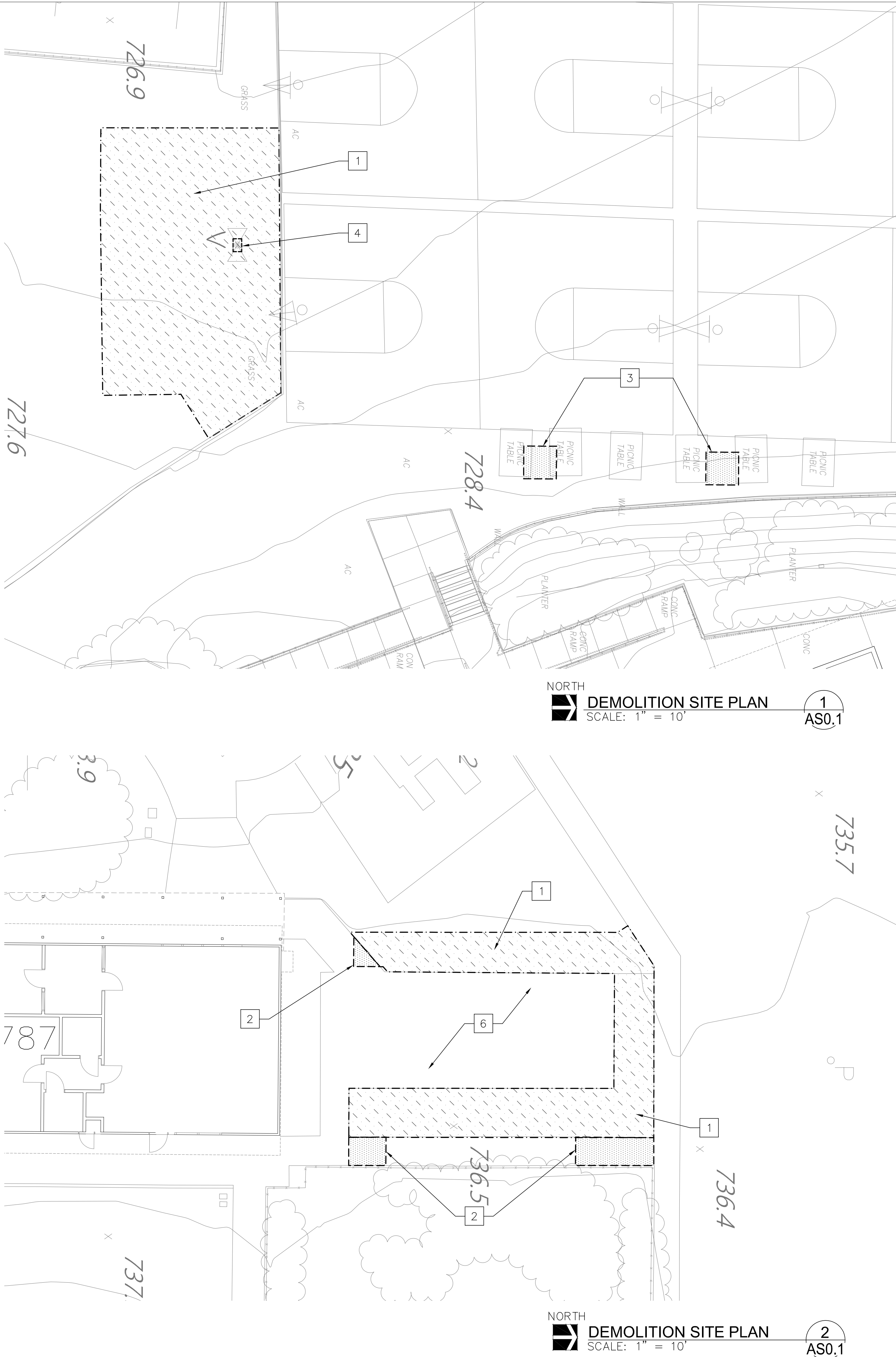
LFA Reviewer's Signature: _____ Date: _____

NORTH



FIRE ACCESS PLAN
SCALE: 1" = 30'

All notes, design arrangements, and plans indicated or represented by this drawing are owned by, and the property of Roesling Nakamura Terada Architects, Inc. and were created, revised, and developed for use on and in connection with this project. None of such notes, arrangements, or plans shall be used by or disclosed to any person, firm, or corporation for any purpose whatsoever without the written permission of Roesling Nakamura Architects, Inc. Any of these drawings or specifications with any public agency is not a publication of record. No reproduction is hereafter permissible without the written consent of RNTA.



- GENERAL NOTES**
- COORDINATE ALL NEW WORK WITH DEMOLITION.
 - RELOCATE EXISTING IRRIGATION AND SPRINKLER HEADS AROUND NEWLY PAVED AREAS TO PROVIDE 100% COVERAGE OF REMAINING TURF OR PLANTED AREAS.

- LEGEND**
- CLEAR & GRUB
 - PAVEMENT DEMOLITION

- KEYNOTES**
- CLEAR & GRUB EXISTING TURF AT AREA SCHEDULED FOR NEW PAVEMENT. SEE GENERAL NOTE 2.
 - SAWCUT, REMOVE & DISPOSE OF CONCRETE PAVING
 - SAWCUT, REMOVE & DISPOSE OF ASPHALT PAVING AT NEW SHADE STRUCTURE FOUNDATION
 - EXISTING IRRIGATION VALVE AND YARD BOX TO BE RELOCATED. SEE ENLARGED SITE PLAN FOR NEW LOCATED.

ROESLING NAKAMURA TERADA ARCHITECTS
ARCHITECTS INC
253 Fifth Avenue
San Diego, California
92101 255 1023
92101 255 0016
www.rntaarchitects.com

LICENSED ARCHITECT
JOE MANSFIELD
NO. C 24429
REN. 6-31-25
STATE OF CALIFORNIA

FALLBROOK UNION ELEMENTARY SCHOOL DISTRICT
ADD FOUR SHADE STRUCTURES
LA PALOMA ELEMENTARY SCHOOL
300 HEALD LANE, FALLBROOK, CA 92028

DEMOLITION
SITE PLANS

Revisions		
No.	Date	Drawn
Project		
Job No.	962	
Date	08/11/22	
Drawn	JWM	

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CODE ANALYSIS

Structure Type	Area (SF)	Allowable Area (SF)	Const. Type	Occupancy	Occ. Load
(1) FOUR-POST FABRIC SHADE STRUCTURE	1200	6000	VB	E	1200/20 = 60
(1) TWO-POST FABRIC SHADE STRUCTURE	600	6000	VB	E	600/20 = 30
(2) SINGLE-POST FABRIC SHADE STRUCTURE	800	6000	VB	E	800/20 = 40

The site plan shows a school campus with various buildings and parking areas. The buildings are labeled as follows:

- CR BLDG #10 A# 04-101787
- CR BLDG #9 A# 04-101787
- CR BLDG #5 A# 04-101787
- CR BLDG #4 LIBRARY A# 04-101787
- CR BLDG #3 A# 04-101787 (RESTROOMS) A# 04-118312
- CR BLDG #11 A# 04-101787
- MUSIC
- CR BLDG #1 A# 04-101787
- ADMIN BLDG #1 A# 04-101787

The plan also shows parking areas, landscaping, and proposed fabric shade structures. The shade structures are labeled with numbers 1 through 10. The plan includes a code analysis table in the top right corner.

(2) SINGLE-POST FABRIC SHADE STRUCTURE:

AREA:	800 SF	(6000 SF ALLOWABLE)
CONST. TYPE:	VB	
OCCUPANCY:	E	
OCC. LOAD:	800/20 = 80	

PATH OF TRAVEL (P.O.T.) IS A BARRIER-FREE ACCESS WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAX. SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL, AND IS AT LEAST 48" WIDE. SURFACE IS SLIP-RESISTANT, STABLE, FIRM AND SMOOTH. MAXIMUM CROSS-SLOPE IS 2% AND THE SLOPE IN THE DIRECTION OF TRAVEL IS 5% UNLESS OTHERWISE INDICATED. (P.O.T.) SHALL REMAIN FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307). ARCHITECT TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT., AND PATH OF TRAVEL COMPLIES WITH CBC 11B-302, 11B-303, AND 11B-403

2. SURFACE GRATES LOCATED IN THE PEDESTRIAN PATH OF TRAVEL HAVE OPENINGS LIMITED TO 1/2" MAXIMUM IN THE DIRECTION OF TRAVEL.
3. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS, AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN FOR THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. DETERMINED TO BE NON-COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NON-COMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OF A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED ON THESE CONSTRUCTION DOCUMENTS.

DURING THE CONSTRUCTION, IF THE P.O.T. WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NON-CONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

— — — — — IMAGINARY LINE
- - - - - (N) ACCESSIBLE PATH OF TRAVEL

- 1 NEW 40' X 30' FOUR POST FABRIC SHADE STRUCTURE
- SEE DSA P.C. 04-119455 DWGS.
- 2 NEW 30' X 20' TWO POINT CANTILEVER FABRIC SHADE
STRUCTURE - SEE DSA P.C. 04-119455 DWGS.
- 3 NEW 20'-0" SQUARE SINGLE POST FABRIC SHADE
STRUCTURE SEE DSA P.C. 04-119454 DWGS.
- 4 (E) ACCESSIBLE PARKING PER A#04-118312
- 5 (E) ACCESSIBLE PASSENGER LOADING ZONE PER
A#04-118312
- 6 ACCESSIBLE PARKING TOW AWAY SIGN PER
A#04-118312
- 7 (E) SAFE DISPERSAL AREA W/ SIGN ON POST PER
A#04-118312
- 8 (E) ACCESSIBLE GATE PER A#04-118312
- 9 NEW ACCESSIBLE PATH OF TRAVEL CONNECTION TO
EXISTING CERTIFIED PATH OF TRAVEL (A#04-101787)
- 10 10'-0" MIN. CLEAR ALLOWED PER DSA IR31.1, ITEM
5.3 (NON-COMBUSTIBLE FRAME W/
IGNITION-RESISTANT ROOF COVERING)

 OVERALL/ACCESS SITE PLAN
SCALE: 1" = 30'

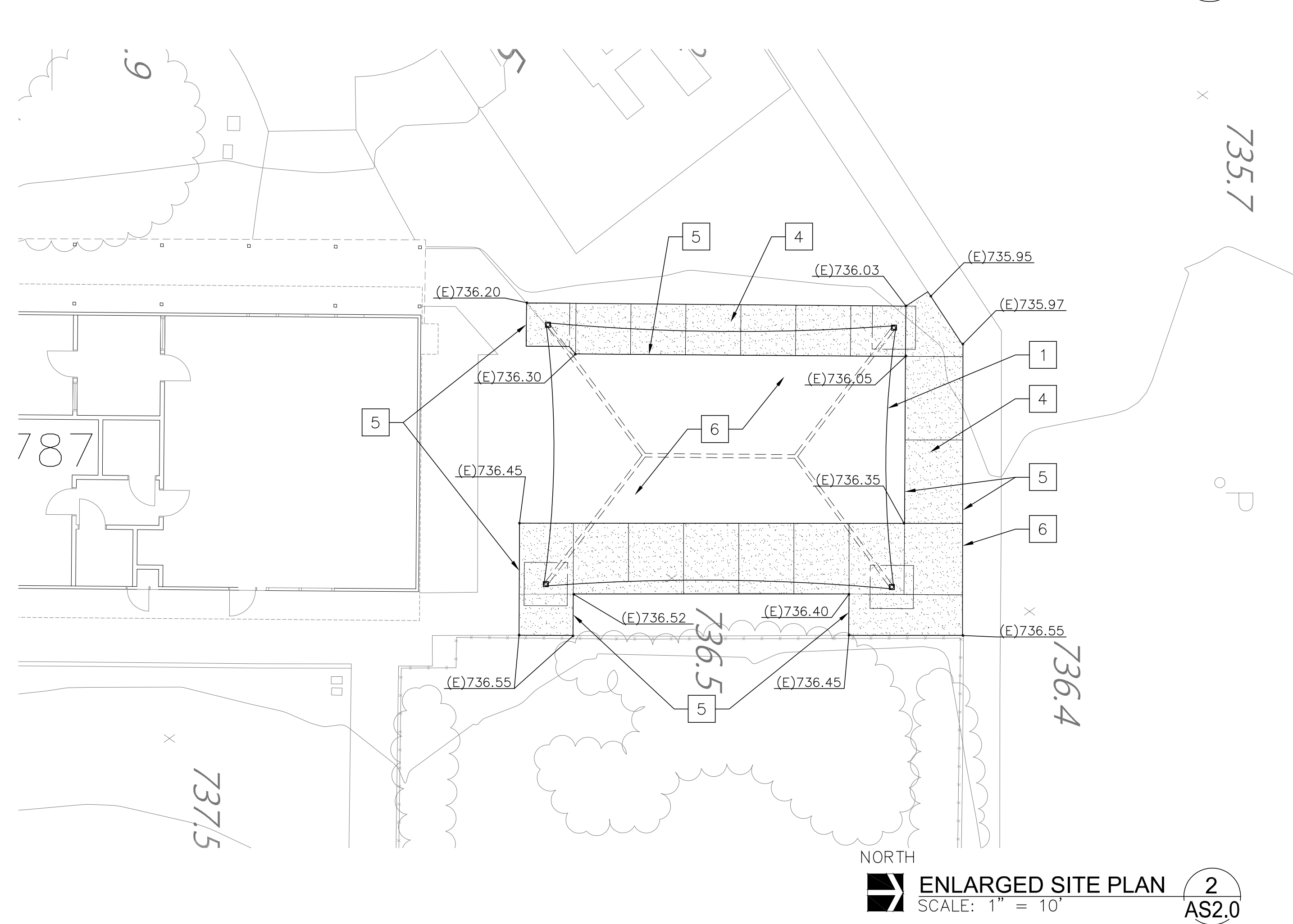
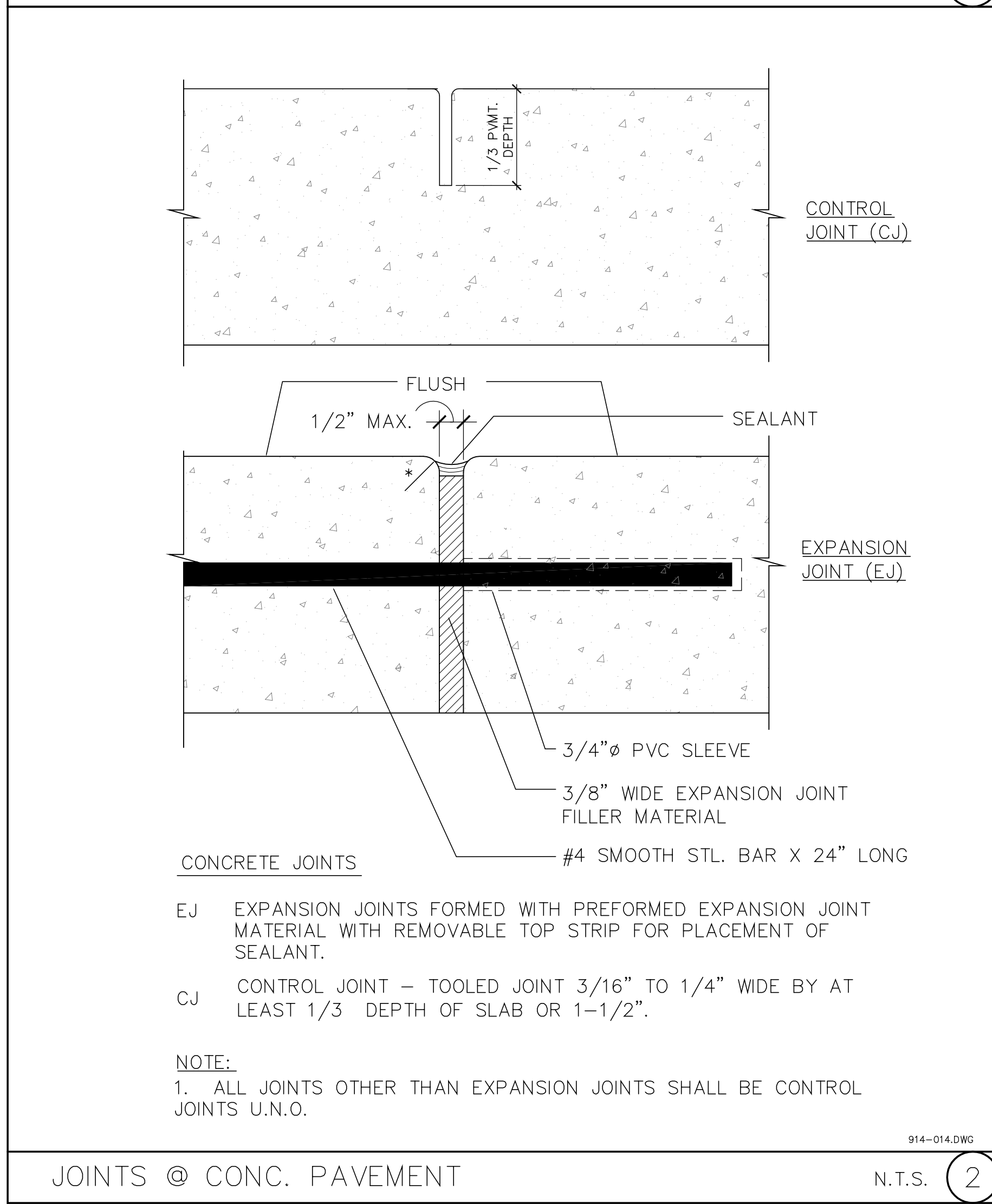


FALLBROOK UNION ELEMENTARY SCHOOL DISTRICT
ADD FOUR SHADE STRUCTURES
LA PALOMA ELEMENTARY SCHOOL
300 HEALD LANE, FALLBROOK, CA 92028


300 HEALD LANE, FALLBROOK, CA 92028

Revisions		
No.	Date	Drawn
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Drawn	JWM	

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- ROSSLING NAKAMURA TERADA ARCHITECTS



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FALLBROOK UNION ELEMENTARY SCHOOL DISTRICT
ADD FOUR SHADE STRUCTURES
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Revisions		
No.	Date	Drawn

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Drawn	JWM





FABRIC SHADE STRUCTURE

DSA P.C. 04-119455

SITE SPECIFIC APPLICATION SITE PLAN SHALL INCLUDE:

1. ACTUAL DIMENSIONS OF SHADE STRUCTURES.
2. DIMENSIONS FROM ADJACENT STRUCTURES AND PROXIMITY OF ASSUMED OR ACTUAL PROPERTY LINES.
3. PROVIDE CODE ANALYSIS INCLUDING ACTUAL SHADE STRUCTURE AREA (SQ. FT.), OCCUPANCY TYPE (A-3), AND TYPE OF CONSTRUCTION (V-B). INDICATE OCCUPANT LOAD FACTOR per 2019 CBC, SECTION 1004.
4. INDICATE LOCATIONS OF FIRE EXTINGUISHER WITHIN 75 FEET.
5. SHOW LOCATIONS OF AUDIBLE FIRE ALARM.
6. INDICATE DIMENSIONS FROM THE ROOF TO THE HIGHER STRUCTURE OR TERRAIN FEATURE. MINIMUM DIMENSION OF 20' FOR SNOW LOAD MODEL (ASCE 7-16).
7. ACTUAL SITE ELEVATION (FT.) TO DETERMINE SITE OCCURS AT OR BELOW THE UPPER ELEVATION LIMIT FOR THE GROUND SNOW LOAD SHOWN IN ASCE 7-16 (FOR SNOW LOAD MODEL).
8. FOR RECESSED BASE PLATE (RBP) OPTION: ARCHITECT/ENGINEER OF RECORD TO SPECIFY THE LOWEST ANTICIPATED SERVICE TEMPERATURE (LAST), AS DEFINED IN AISC 341-10 SECTION A.3.4b, A4.1 AND A4.2 PER NOTE ON EACH INDIVIDUAL MODEL ENGINEERING DRAWING WHICH RELATES TO DEMAND CRITICAL WELD AND "L.A.S.T." TEMPERATURE (EITHER STRUCTURAL STEEL NOTE #14).
9. COMPLETE SCOPE OF WORK INCLUDING THE SHADE STRUCTURE MODEL NUMBER, P.C. NUMBER, AND SPECIFIC SIZE OF SHADE STRUCTURE.
10. ALL SADDLES, CLAMPS AND FITTINGS SHALL CONFORM TO THE GUIDELINES AS SPECIFIED IN APPENDICES "A, B & C" RESPECTIVELY IN ASCE 19-16, "STRUCTURAL APPLICATIONS OF STEEL CABLES FOR BUILDINGS."
11. ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN MAPPED GEOLOGIC HAZARD ZONE. GEOHAZARD REPORT REQUIREMENTS PER DSA IR A-4.
12. ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN A MAPPED FIRE HAZARD SEVERITY ZONE OR WILDLAND INTERFACE AREA.



GENERAL NOTES

SITE SPECIFIC APPLICATION TITLE SHEET SHALL INCLUDE:

PARTIAL LIST OF APPLICABLE CODES

- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
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- (2018 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2019 CALIFORNIA AMENDMENTS)
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UL521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 (R2010)
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING AND GRANDSTANDS	2017 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

SEE INDIVIDUAL STRUCTURAL DRAWINGS FOR SPECIFIC DESIGN NOTES AND LOADING.

ALL WORK SHALL CONFORM TO 2019 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.).

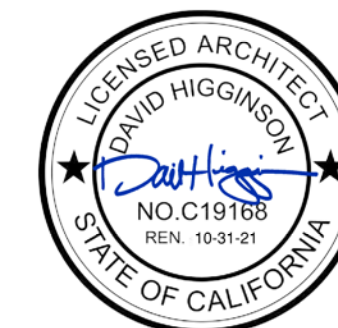
ALL WORK SHALL BE IN COMPLIANCE WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.

MODEL: DSA4012030-19 STRUCTURE: 20'X20'X15' (MAX) HIP UNIT MAX. AREA - 600 SQ. FT. MAX. OCCUPANCY * 40	MODEL: DSA4013030-19 STRUCTURE: 30'X30'X15' HIP UNIT MAX. AREA - 900 SQ. FT. MAX. OCCUPANCY * 60	MODEL: DSA4013040-19 STRUCTURE: 30'X40'X15' HIP UNIT MAX. AREA - 1200 SQ. FT. MAX. OCCUPANCY * 80	MODEL: DSA401S2030-19 STRUCTURE: 20'X30'X12' HIP (20 PSF SNOW LOAD) MAX. AREA - 600 SQ. FT. MAX. OCCUPANCY * 40
MODEL: DSA4073030-19 STRUCTURE: 30'X30'X14' (MAX) MARINER PEAK UNIT MAX. AREA - 1200 SQ. FT. MAX. OCCUPANCY * 60	MODEL: DSA3022060-19 STRUCTURE: 20'X60'X14' FULL CANTILEVER JOINED MAX. AREA - 1200 SQ. FT. MAX. OCCUPANCY * 60	MODEL: DSA3052060-19 STRUCTURE: 20'X60'X14' TRI TRUSS HIP JOINED MAX. AREA - 1200 SQ. FT. MAX. OCCUPANCY * 60	MODEL: DSA4182020-19 STRUCTURE: 20'X20'X14' TENSION SAILS JOINED MAX. AREA/SAIL - 400 SQ. FT./SAIL MAX. OCCUPANCY / SAIL * 20
MODEL: DSA407Q6060-19 STRUCTURE: 60'X60'X14' MARINER PEAK QUAD MAX. AREA - 3600 SQ. FT. MAX. OCCUPANCY * 120	MODEL: DSA407J3060-19 STRUCTURE: 20'X60'X12' MARINER PEAK JOINED MAX. AREA - 1800 SQ. FT. MAX. OCCUPANCY * 120	MODEL: DSA4183030-19 STRUCTURE: 30'X30'X14' TENSION SAILS JOINED MAX. AREA/SAIL - 400 SQ. FT./SAIL MAX. OCCUPANCY / SAIL * 20	MODEL: DSA430730-19 STRUCTURE: 30'X30'X12' TENSION SAILS JOINED MAX. AREA/SAIL - 400 SQ. FT./SAIL MAX. OCCUPANCY / SAIL * 120
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DRAWING NUMBER	DRAWING DESCRIPTION	STRUCTURE TYPE	MAX SIZE	MODEL NUMBER
X P.C. T-1.0	P.C. TITLE SHEET			
X P.C. T-2.0	DSA 103 SAMPLE FORM			
X P.C. T-2.1	DSA 103 SAMPLE FORM			
X P.C. T-3.0	DSA 103 SAMPLE FORM			
X P.C. T-3.1	DSA 103 SAMPLE FORM			
1.1-1000	PRODUCT INFORMATION	HIP	20 X 30	DSA4012030-19
1.2-2000	REACTIONS	HIP	20 X 30	DSA4012030-19
2.1-1000	PRODUCT INFORMATION	HIP	30 X 30	DSA4013030-19
2.2-2000	REACTIONS	HIP	30 X 30	DSA4013030-19
3.1-1000	PRODUCT INFORMATION	HIP	30 X 40	DSA4013040-19
3.2-2000	REACTIONS	HIP	30 X 40	DSA4013040-19
4.1-1000	PRODUCT INFORMATION	HIP (20# SNOW LOAD)	20 X 30	DSA401S2030-19
4.2-2000	REACTIONS	HIP (20# SNOW LOAD)	20 X 30	DSA401S2030-19
5.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID	14 X 14	DSA1031414-19
5.2-2000	REACTIONS	SINGLE POST PYRAMID	14 X 14	DSA1031414-19
6.1-1000	PRODUCT INFORMATION	MARINER	30 X 30	DSA4073030-19
6.2-2000	REACTIONS	MARINER	30 X 30	DSA4073030-19
7.1-1000	PRODUCT INFORMATION	JOINED MARINER	30 X 200	DSA407J3060-19
7.2-2000	REACTIONS	JOINED MARINER	30 X 200	DSA407J3060-19
8.1-1000	PRODUCT INFORMATION	QUAD MARINER	60 X 60	DSA407Q6060-19
8.2-2000	REACTIONS	QUAD MARINER	60 X 60	DSA407Q6060-19
9.1-1000	PRODUCT INFORMATION	FULL CANTILEVER	20 X 30	DSA2022030-19
9.2-2000	REACTIONS	FULL CANTILEVER	20 X 30	DSA2022030-19
10.1-1000	PRODUCT INFORMATION	FULL CANTILEVER JOINED	20 X 300	DSA3022060-19
10.2-2000	REACTIONS	FULL CANTILEVER JOINED	20 X 300	DSA3022060-19
11.1-1000	PRODUCT INFORMATION	TRI TRUSS CANTILEVER	20 X 30	DSA2062030-19
11.2-2000	REACTIONS	TRI TRUSS CANTILEVER	20 X 30	DSA2062030-19
12.1-1000	PRODUCT INFORMATION	TRI TRUSS CANTILEVER JOINED	20 X 300	DSA3052060-19
12.2-2000	REACTIONS	TRI TRUSS CANTILEVER JOINED	20 X 300	DSA3052060-19
13.1-1000	PRODUCT INFORMATION	THREE POINT SAILS	30 X 200	DSA30730-19
13.2-2000	REACTIONS	THREE POINT SAILS	30 X 200	DSA30730-19
14.1-1000	PRODUCT INFORMATION	FOUR-POINT SAILS	20 X 300	DSA4182020-19
14.2-2000	REACTIONS	FOUR-POINT SAILS	20 X 300	DSA4182020-19
15.1-1000	PRODUCT INFORMATION	FOUR POINT SAILS	30 X 200	DSA4183030-19
15.2-2000	REACTIONS	FOUR POINT SAILS	30 X 200	DSA4183030-19

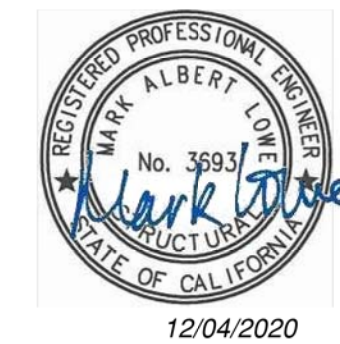
SHEET INDEX - P.C. DRAWINGS

DAVID HIGGINSON, AIA, ARCHITECT
38868 BUTTERFLY DRIVE
YUCAIPA, CA 92399
(909) 499-0058
dhigginson.arch@gmail.com



MARK LOWE, S.E.
STRUCTURAL ENGINEER

19471 MISTY RIDGE LANE
TRABUCO CANYON, CALIFORNIA
92367
PH. 949-400-1265
malowe@me.com



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



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

CERTIFICATIONS:

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

CUSTOMER:

Fallbrook Union Elementary
School District

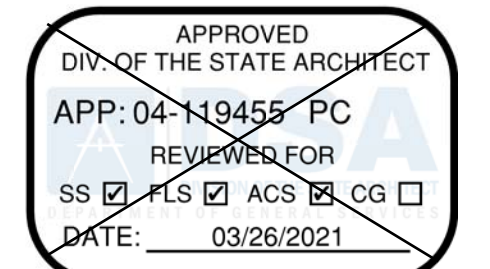
PROJECT NAME:

La Paloma Elementary

LOCATION:

300 Heald Lane
Fallbrook, CA 92028

MODEL NUMBER:



STRUCTURE TYPE:

SCALE : VARIES

DRAWING SIZE: D

PRE-CHECK (PC) DOCUMENT

Code : 2019 CBC
A separate project application for construction is required.

Eng. By : DWH 09/18/20

Design By : DWH 09/18/20

Approved By : DWH 09/18/20

DRAWING DESCRIPTION:

P.C. TITLE SHEET

DWG.

SHEET P.C. T-1.0

REV.

BUILDING CODE DATA

UNIT SELECTION AND DESCRIPTION

ARCHITECT OF RECORD

ENGINEER OF RECORD

ENVELOPE JOINT REACTIONS

$$\text{Shear resultant} = \sqrt{Px^2 + Py^2 + Pz^2}$$

$$\text{Moment resultant} = \sqrt{Mx^2 + My^2 + Mz^2}$$

Node	Support Forces (kips)			Support Moments (kips-ft)			Support Forces (kips)			Support Moments (kips-ft)		
	FX	FY	FZ	MX	MY	MZ	FX	FY	FZ	MX	MY	MZ
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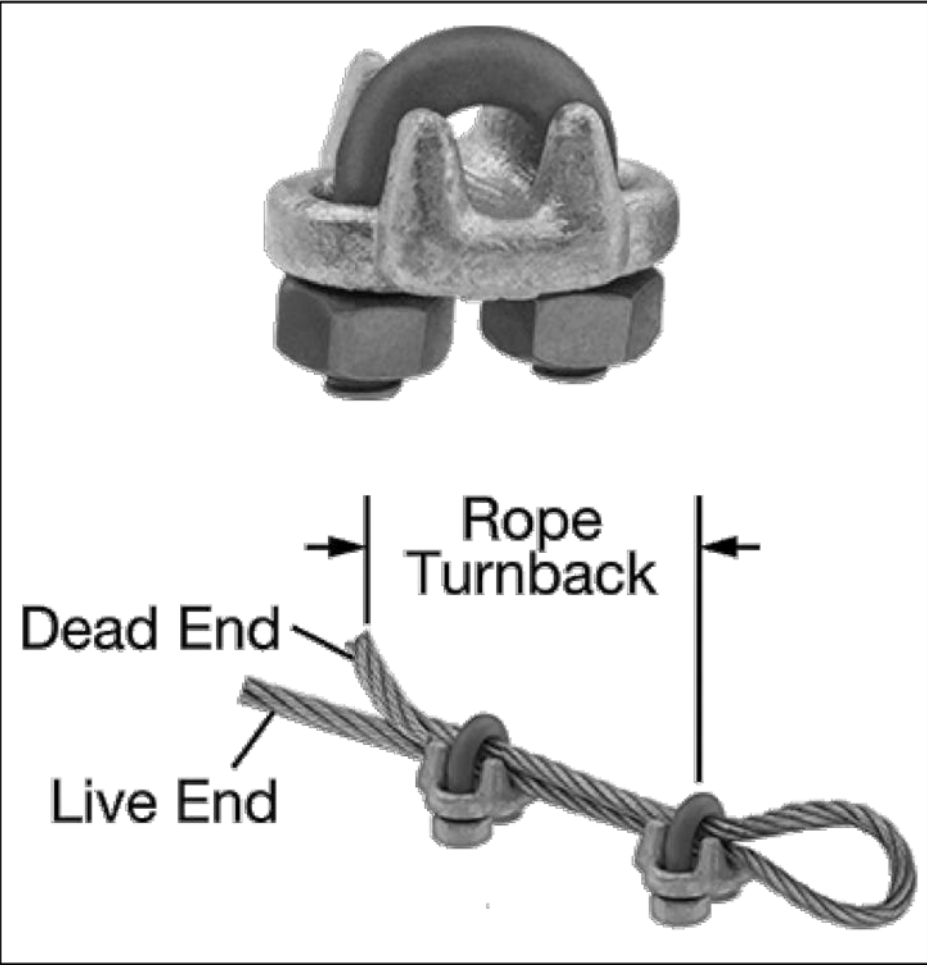
BASIC LOAD CASES

DEAD LOAD
FLOOR LIVE LOAD
ROOF LIVE LOAD
ROOF SNOW LOAD
SUPERIMPOSED LOADS

0.0378 PSF (FABRIC)
N/A
5 PSF
5 PSF
N/A

WIND LOAD
ULTIMATE DESIGN WIND SPEED (3 SEC GUST) 115 MPH
VELOCITY PRESSURE qz 25.32 PSF
COMPONENT AND CLADDING qz
(CABLE AND CABLE HARDWARE ONLY) 25.32 PSF

SEISMIC LOAD
SEISMIC RESPONSE COEFFICIENTS Cs 1.6
DESIGN BASE SHEAR 6886 LB



FORGED WIRE ROPE CLAMP

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

Aircraft Cable

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

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



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

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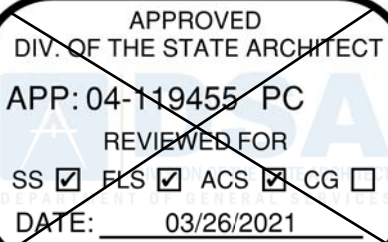
La Paloma Elementary

LOCATION:

300 Heald Lane
Fallbrook, CA 92028

MODEL NUMBER:

DSA2022030-19



STRUCTURE TYPE:
FULL CANTILEVER HIP
SINGLE - DSA

SIZE: MAXIMUM
20' x 30' x 15'e MAX.

SCALE : NONE

DRAWING SIZE:

D

PRE-CHECK (PC) DOCUMENT
Code - 2019 CBC

A separate project application for construction is required.

Eng. By : JO 06/26/20

Design By : JO 06/26/20

Approved By : JO 06/26/20

DRAWING DESCRIPTION:

REACTIONS

DWG. DSA2022030-19

SHEET 9.2-2000

REV. NC



190/F5 Fire rated specifications

Standard range

Revision 0 28-Oct-12

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

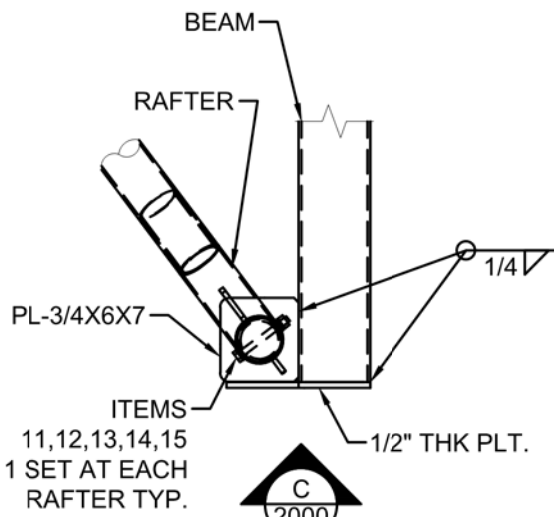
Notes:

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

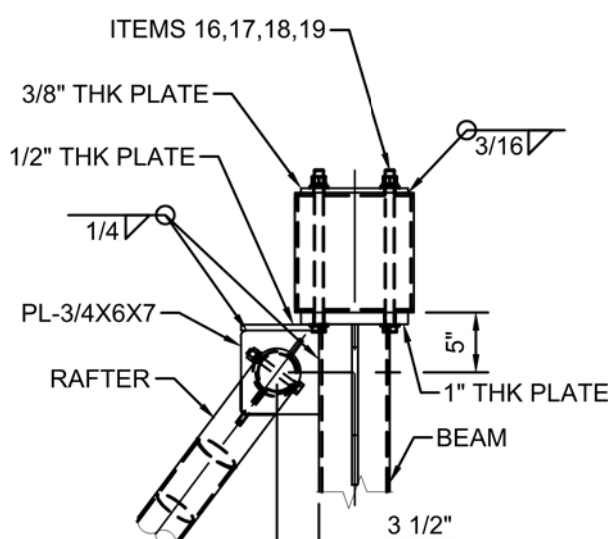
Deon Joubert
General Manager - Multiknit (Pty) Ltd

Tommy Rogers
Managing Director - Multiknit (Pty) Ltd

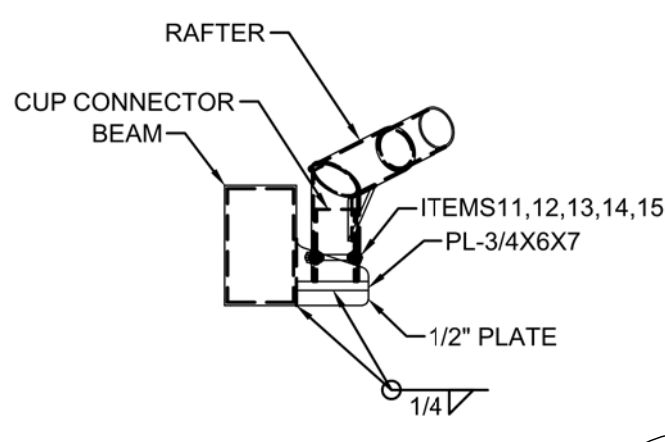
CONVERSION TO
IMPERIAL UNITS:
185 GSM = .0378 psf
50 KGS = 110 Lb
72 KGS = 159 Lb
156 Kpa = 3258 psf



DETAIL-4
REFER TO TOP VIEW PG 1000



DETAIL-5
REFER TO TOP VIEW PG 1000



VIEW C
REFER TO DETAIL-4





FABRIC SHADE STRUCTURE

DSA P.C. 04-119454



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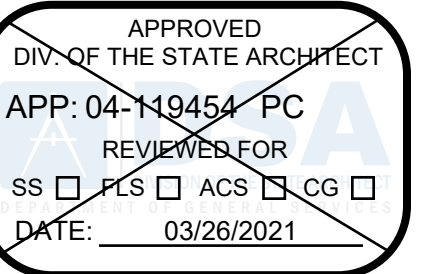
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MODEL NUMBER:



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UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
UL 464	AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 EDITION
UL521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 EDITION
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 (R2010)
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPIC SEATING AND GRANDSTANDS	2017 EDITION

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35, FOR STATE OF CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS.

SEE INDIVIDUAL STRUCTURAL DRAWINGS FOR SPECIFIC DESIGN NOTES AND LOADING.

ALL WORK SHALL CONFORM TO 2019 EDITION TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.).

ALL WORK SHALL BE IN COMPLIANCE WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.

SITE SPECIFIC APPLICATION SITE PLAN SHALL INCLUDE:

1. ACTUAL DIMENSIONS OF SHADE STRUCTURES.
2. DIMENSIONS FROM ADJACENT STRUCTURES AND PROXIMITY OF ASSUMED OR ACTUAL PROPERTY LINES.
3. PROVIDE CODE ANALYSIS INCLUDING ACTUAL SHADE STRUCTURE AREA (SQ. FT.), OCCUPANCY TYPE (A-3), AND TYPE OF CONSTRUCTION (V-B). INDICATE OCCUPANT LOAD FACTOR per 2019 CBC, SECTION 1004.
4. INDICATE LOCATIONS OF FIRE EXTINGUISHER WITHIN 75 FEET.
5. SHOW LOCATIONS OF AUDIBLE FIRE ALARM.
6. INDICATE DIMENSIONS FROM THE ROOF TO THE HIGHER STRUCTURE OR TERRAIN FEATURE. MINIMUM DIMENSION OF 20' FOR SNOW LOAD MODEL (ASCE 7-16).
7. ACTUAL SITE ELEVATION (FT.) TO DETERMINE SITE OCCURS AT OR BELOW THE UPPER ELEVATION LIMIT FOR THE GROUND SNOW LOAD SHOWN IN ASCE 7-16 (FOR SNOW LOAD MODEL).
8. FOR RECESSED BASE PLATE (RBP) OPTION: ARCHITECT/ENGINEER OF RECORD TO SPECIFY THE LOWEST ANTICIPATED SERVICE TEMPERATURE (LAST), AS DEFINED IN AISC 341-10 SECTION A.3.4b, A4.1 AND A4.2 PER NOTE ON EACH INDIVIDUAL MODEL ENGINEERING DRAWING WHICH RELATES TO DEMAND CRITICAL WELD AND "L.A.S.T." TEMPERATURE (EITHER STRUCTURAL STEEL NOTE #14).
9. COMPLETE SCOPE OF WORK INCLUDING THE SHADE STRUCTURE MODEL NUMBER, P.C. NUMBER, AND SPECIFIC SIZE OF SHADE STRUCTURE.
10. ALL SADDLES, CLAMPS AND FITTINGS SHALL CONFORM TO THE GUIDELINES AS SPECIFIED IN APPENDICES "A, B & C" RESPECTIVELY IN ASCE 19-16, "STRUCTURAL APPLICATIONS OF STEEL CABLES FOR BUILDINGS."
11. ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN MAPPED GEOLOGIC HAZARD ZONE. GEOHAZARD REPORT REQUIREMENTS PER DSA IR A-4.
12. ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN A MAPPED FIRE HAZARD SEVERITY ZONE OR WILDLAND INTERFACE AREA.

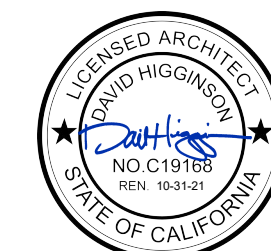
MODEL: DSA1032020-19 STRUCTURE: 20' x 20' x 12' SINGLE POST PYRAMID UNIT MAX. AREA = 400 SQ. FT. MAX. OCCUPANCY = 26	MODEL: DSA1241414-19 STRUCTURE: 14' x 14' x 12' SINGLE POST PYRAMID CANTILEVER MAX. AREA = 196 SQ. FT. MAX. OCCUPANCY = 13
MODEL: DSA103125-19 STRUCTURE: TRIANGLE MAX. AREA = 271 SQ. FT. MAX. OCCUPANCY = 18	MODEL: DSA4073040-19 STRUCTURE: 30' x 40' x 14' MARINER PEAK MAX. AREA = 1200 SQ. FT. MAX. OCCUPANCY = 80
MODEL: DSA30140-19 STRUCTURE: TRIANGLE MAX. AREA = 892 SQ. FT. MAX. OCCUPANCY = 46	MODEL: DSA401203012-19 STRUCTURE: 20' x 30' x 12' HIP UNIT MAX. AREA = 600 SQ. FT. MAX. OCCUPANCY = 40
MODEL: DSA401203012-19 STRUCTURE: 30' x 30' x 12' HIP UNIT MAX. AREA = 900 SQ. FT. MAX. OCCUPANCY = 80	MODEL: DSA401303012-19 STRUCTURE: 30' x 40' x 12' HIP UNIT MAX. AREA = 1200 SQ. FT. MAX. OCCUPANCY = 80
MODEL: DSA4014040-19 STRUCTURE: 40' x 40' x 15' HIP UNIT MAX. AREA = 1600 SQ. FT. MAX. OCCUPANCY = 106	MODEL: DSA60340-19 STRUCTURE: QUAD JOINED HIP MAX. AREA = 1,040 SQ. FT. MAX. OCCUPANCY = 66
MODEL: DSA4014040-19 STRUCTURE: 40' x 40' x 15' HIP UNIT MAX. AREA = 1,600 SQ. FT. MAX. OCCUPANCY = 106	MODEL: DSA60360-19 STRUCTURE: 60' x 60' x 15' HIP UNIT MAX. AREA = 2,338 SQ. FT. MAX. OCCUPANCY = 156
MODEL: DSA4014040-19 STRUCTURE: 40' x 40' x 15' HIP UNIT MAX. AREA = 1,600 SQ. FT. MAX. OCCUPANCY = 106	MODEL: DSA60360-19 STRUCTURE: 60' x 60' x 15' HIP UNIT MAX. AREA = 2,338 SQ. FT. MAX. OCCUPANCY = 156

DRAWING NUMBER	DRAWING DESCRIPTION	STRUCTURE TYPE	MAX SIZE	MODEL NUMBER
P.C. T-1.0	P.C. TITLE SHEET			
P.C. T-2.0	DSA 103 SAMPLE FORM			
P.C. T-2.1	DSA 103 SAMPLE FORM			
P.C. T-3.0	DSA 103 SAMPLE FORM			
P.C. T-3.1	DSA 103 SAMPLE FORM			
16.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID	20 X 20	DSA1032020-19
16.2-2000	REACTIONS	SINGLE POST PYRAMID	20 X 20	DSA1032020-19
17.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID CANTILEVER	14 X 14	DSA1241414-19
17.2-2000	REACTIONS	SINGLE POST PYRAMID CANTILEVER	14 X 14	DSA1241414-19
18.1-1000	PRODUCT INFORMATION	TRIANGLE	25 X 25	DSA30125-19
18.2-2000	REACTIONS	TRIANGLE	25 X 25	DSA30125-19
19.1-1000	PRODUCT INFORMATION	TRIANGLE	40 X 40	DSA30140-19
19.2-2000	REACTIONS	TRIANGLE	40 X 40	DSA30140-19
20.1-1000	PRODUCT INFORMATION	HIP	20 X 30	DSA401203012-19
20.2-2000	REACTIONS	HIP	20 X 30	DSA401203012-19
21.1-1000	PRODUCT INFORMATION	HIP	30 X 30	DSA401303012-19
21.2-2000	REACTIONS	HIP	30 X 30	DSA401303012-19
22.1-1000	PRODUCT INFORMATION	HIP	30 X 40	DSA401304012-19
22.2-2000	REACTIONS	HIP	30 X 40	DSA401304012-19
23.1-1000	PRODUCT INFORMATION	HIP	40 X 40	DSA4014040-19
23.2-2000	REACTIONS	HIP	40 X 40	DSA4014040-19
24.1-1000	PRODUCT INFORMATION	JOINED HIPS	VARIES	DSA401J-19
24.2-1001	DETAILS	JOINED HIPS	VARIES	DSA401J-19
24.3-2000	REACTIONS	JOINED HIPS	VARIES	DSA401J-19
25.1-1000	PRODUCT INFORMATION	QUAD JOINED HIPS	VARIES	DSA401Q-19
25.2-1001	DETAILS	QUAD JOINED HIPS	VARIES	DSA401Q-19
25.3-2000	REACTIONS	QUAD JOINED HIPS	VARIES	DSA401Q-19
26.1-1000	PRODUCT INFORMATION	HEXAGON	40 Ø	DSA60340-19
26.2-2000	REACTIONS	HEXAGON	40 Ø	DSA60340-19
27.1-1000	PRODUCT INFORMATION	HEXAGON	60 Ø	DSA60360-19
27.2-2000	REACTIONS	HEXAGON	60 Ø	DSA60360-19
28.1-1000	PRODUCT INFORMATION	MARINER PEAK	30 X 40	DSA4073040-19
28.2-2000	REACTIONS	MARINER PEAK	30 X 40	DSA4073040-19

TOTAL SHEET COUNT: 33 SHEETS

ARCHITECT

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TRABUCO CANYON, CA 92367
PH. 949-400-1265
malowe@me.com



BUILDING CODE DATA

GENERAL NOTES

UNIT SELECTION AND DESCRIPTION

ARCHITECT

ENGINEER

PRE-CHECK (PC) DOCUMENT

Code : 2019 CBC
A separate project application for construction is required.

Eng. By :	DWH	10/16/20
Design By :	DWH	10/16/20
Approved By :	DWH	10/16/20

DRAWING DESCRIPTION:

P.C. TITLE SHEET

DWG.

SHEET

P.C. T-1.0

REV.

GENERAL NOTES
DESIGN LOADS

BUILDING CODE	CBC 2019 (BASED ON IBC 2018)
LIVE LOADS	5 PSF
SNOW LOAD	5 PSF
WIND LOADS	115 MPH (3-Sec. Gust); EXPOSURE C; TOPOGRAPHIC FACTOR , Kzt = 1.0

1.- SPECIAL INSPECTION REQUIREMENTS SHALL FOLLOW THE ATTACHED SAMPLE TEST AND INSPECTION LIST (T & L LIST) APPROVED BY DSA. THE SHOP WELDING INSPECTION SHALL INCLUDE WELDING OF ALL STEEL MEMBERS AND IDENTIFICATION OF STEEL THROUGH MILL CERTIFICATE OR MATERIAL TESTING. UNCERTIFIED STEEL SHALL BE TESTED TO THE REQUIREMENTS OF CBC 2019 CHAPTER 17A. THE FIELD SPECIAL INSPECTION SHALL INCLUDE COMPRESSION CYLINDER TESTS FOR THE CONCRETE FOUNDATION.

2.- STRUCTURE SHALL BE IN THE LOCATION SHOWN ON THE SITE SPECIFIC DSA APPLICATION DRAWING.

3.- FOUNDATION DESIGN BASED ON CBC 2019, TABLE 1806A.2, SOIL CLASS 5 (ALLOWABLE FOUNDATION PRESSURE 1500 PSF)

4.- DESIGN PER FOLLOWING CODES: CBC 2019, ASCE 7-16, AISC 360-16, AISC 341-16, ACI 318-14, ASCE 55-16 & ASCE 19-16

STRUCTURAL STEEL

1.- FABRICATION OF THE STEEL STRUCTURES SHALL BE PERFORMED BY SHADE STRUCTURES OR AN AUTHORIZED LICENSEE. MATERIAL TESTING (OR MILL CERTIFICATES) AND INSPECTION OF WELDING SHALL BE CONDUCTED PER CBC 2019 SECTIONS 1704A, 1705A, 1705A.2, AND TABLE 1705A.2.1.

2.- ONLY CALIFORNIA LICENSED CONTRACTORS AUTHORIZED BY SHADE STRUCTURES SHALL INSTALL THE SHADE STRUCTURES.

3.- ALL WORK SHALL CONFORM TO CBC 2019 EDITION, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

4.- ALL GALVANIZED STEEL TUBE PRODUCTS MANUFACTURED BY ALLIED TUBE & CONDUIT FOR THIS STRUCTURE SHALL BE, AND CONFORM TO ASTM A500-16, IN ITS ENTIRETY. TYPICAL MECHANICAL PROPERTIES ARE:
ROUND TUBE 42,000 PSI YIELD STRESS MINIMUM / 48,000 PSI TENSILE STRESS MINIMUM

5.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE B, UNLESS OTHERWISE NOTED. TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR HSS PRODUCTS:
SQUARE AND RECTANGULAR 46,000 PSI YIELD STRESS / 58,000 PSI TENSILE STRESS
ROUND PIPE 42,000 PSI YIELD STRESS / 58,000 PSI TENSILE STRESS

6.- ALL PLATES PRODUCTS SHALL COMPLY WITH ASTM A572 GRADE 50.

7.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

8.- ALL WELDING TO CONFORM WITH AMERICAN WELDING SOCIETY STANDARDS AND SHALL BE INSPECTED BY AN AWS/CWI INSPECTOR. AWS D1.1 FOR HOT ROLLED. AWS D1.3 FOR SHEET/COLD FORMED. AWS D1.8 SEISMIC SUPPLEMENT.

9.- ALL FULL PENETRATION WELD SHALL BE CONTINUOUSLY INSPECTED PER AWS D1.1 & D1.8.

10.- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. FIELD CONNECTIONS SHALL BE AS INDICATED ON THE DRAWINGS (IF REQUIRED). ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" E70S-X ELECTRODES UNLESS OTHERWISE NOTED. EITHER SMAW OR GMAW IS ACCEPTABLE.

11.- ALL STAINLESS STEEL BOLTS SHALL COMPLY WITH ASTM F-593, YIELD STRENGTH= 65 KSI, TENSILE STRENGTH=100 KSI MINIMUM. ALLOY GROUP 1, CONDITION CW1. ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 1, CONDITION CW1. REFERRING TO RCSC, ASTM F-593 IS NOT CONSIDERED AS HIGH STRENGTH BOLTS.

12.- ALL STRUCTURAL STEEL (ITEMS FROM NOTE 5) SHALL BE POWDER COATED WITH ONE SHOP COAT (2.5 MILS MIN.) OF ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT, OR EQUIVALENT PAINT SYSTEM. THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS, ASKO NOBEL, PPG OR TIGER DRYLAC), TO ACHIEVE OPTIMUM ADHESION. IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:
- PENCIL HARDNESS (ASTM D-3363). - HUMIDITY (ASTM D-2247).
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL SOFTNESS.

13.- ALL STEEL ROUND TUBING (ITEMS FROM NOTE 4) SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

14.- COLD-FORMED STEEL MEMBERS SHALL BE 55% ALUMINUM ZINC ALLOY COATED PER ASTM A792/A792M STANDARD IN ACCORDANCE TO AISI S200 TABLE A4-1, CP 90 COATING DESIGNATION. ALL EXPOSED STEEL FASTENERS SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329), OR PROTECTED WITH CORROSION PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF 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.

CONCRETE SPECIFICATION

1.- CONCRETE SHALL BE SAMPLED AND TESTED PER CBC 2019 SECTION 1903A & SHALL BE INSPECTED PER SECTION 1903A.

2.- CONCRETE TO BE F'c= 4500 PSI, TYPE V CEMENT, WATER/CEMENT RATIO OF 0.45, PER ACI 318-14 CHAPTER 5. REINFORCING STEEL TO BE Fy= 60000 PSI, MIN. GR. 60

3.- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 55 (GALVANIZED PER ASTM A153, CLASS D MINIMUM OR ASTM F2329). ANCHOR BOLT'S EMBEDMENT NEEDS TO BE AS FOLLOWS:
A) ANCHOR BOLT Ø1 1/4" 30 IN (MINIMUM EMBEDMENT)

4.- CERTIFIED MILL TEST REPORTS ARE TO BE PROVIDED FOR EACH SHIPMENT OF REINFORCEMENT.

5.- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.

FABRIC SPECIFICATION

1.- FABRIC SHALL BE MANUFACTURED BY MULTIKNIT LTD. OR OTHER COMPANY WHO CAN MANUFACTURE FABRIC, WHICH MEETS THE SPECIFICATIONS LISTED ON PAGE 2000, AND SHALL BE FABRICATED FROM POLYETHYLENE MATERIALS.

2.- THE FABRIC SHALL RETAIN 80% OF ITS TENSILE AND TEARING STRENGTH AFTER ULTRAVIOLET EXPOSURE PER ASTM G53 USING A 313 NM LIGHT SOURCE FOR 500 HOURS WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS.

3.- PROVIDE CERTIFICATION BY MANUFACTURER AND STATE FIRE MARSHAL TO SCHOOL'S DISTRICT INSPECTOR OF RECORD AT SITE SPECIFIC INSTALLATION. COPY OF FIRE CERTIFICATION SHALL BE SENT TO DSA.

4.- FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE BY THE DISTRICT. FABRICS SAMPLES OF THE SAME MATERIAL WHICH ARE MAINTAINED AT THE PROJECTS SITE SHALL BE TESTED TO BE IN COMPLIANCE WITH ASTM D5034 AND D2261. THE ANNUAL TESTING ON THE APPROVED PLANS SHALL BE COMPARED TO THE FABRIC SPECIFICATIONS INDICATED IN NOTE 1 OF "FABRIC SPECIFICATION" ON THE APPROVED PLANS. THE FABRIC SHALL BE REPLACED WHEN THE TEST RESULTS RETURN LESS THAN 50% OF THE ULTIMATE VALUES IN NOTE 1 OF "FABRIC SPECIFICATION". FIRE TEST ON FABRIC: NFPA 701 TEST 2 AND ASTM E 84 EXTENDED 30 MINUTES TEST. FLAME SPREAD INDEX (FSI): 10, SMOKE DEVELOPED INDEX (SDI): 50. FABRIC IS ACCEPTABLE FOR USE IN WILDLIFE URBAN INTERFACE AREA.

5.- FABRIC TOP NEEDS TO BE REMOVED IF SNOW EXCEEDING 5 PSF ARE ANTICIPATED, FABRIC TOP NEEDS TO BE REMOVED IF WINDS EXCEEDING 115 MPH ARE ANTICIPATED.

6.- A VISUAL INSPECTION LOOKING FOR TEAR AND ABNORMAL WEAR IN FABRIC MATERIAL AND THREAD IS REQUIRED PRIOR TO RE-INSTALLATION. USA SHADE & FABRIC STRUCTURES SHALL BE NOTIFIED IF SIGNIFICANT DAMAGE IS PRESENT BEFORE RE-INSTALLATION.

AIRCRAFT CABLE

1.- FOR FABRIC ATTACHMENT USE 3/8" 7x19 GALV. CABLE PER ASTM A1023A, ASTM 1023M-02, WITH A BREAKING STRENGTH VALUE OF 14,400 LBS. CABLE SHALL BE TENSIONED TO 250 LBS MINIMUM. THE MAXIMUM CALCULATED CABLE ALLOWABLE CAPACITY IS Sa=4909 LB.

2.- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY) REACH A TIGHT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTING VISITS AS REQUIRED.

2019 CBC PC DESIGN NOTES

FLOOR LIVE LOAD	N/A
ROOF LIVE LOAD	RLL 5 PSF

ALLOWABLE SOIL PRESSURE:
DL + LL (CONC FTG) 1500 PSF
DL + LL + SEISMIC (CONC FTG) 1500 PSF
LATERAL BEARING DESIGN VALUE 100 PSF/FT BELOW NATURAL GRADE, PER TABLE 1806A.2

TWO TIMES THE TABULAR VALUE IS USED (200 PSF/FT)
PER CBC SECTION 1806A.3.4.
ALLOWABLE PIER FRICTIONAL RESISTANCE 250 PSF MAXIMUM
BASED ON SECTION 1810A.3.3.1.4 (ONE-SIXTH OF THE BEARING VALUE).
UPLIFT FRICTIONAL RESISTANCE HAVE A SAFETY FACTOR OF 3.

ROOF SNOW LOAD	5 PSF
ICE LOAD	ZERO PSF
FLOOD HAZARD AREA	NO

WHEN A SITE SPECIFIC 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 THE PC ARE STILL APPLICABLE.

WIND DESIGN DIRECTIONAL PROCEDURE: ASCE 7-16, SECTION 27.3.2
-BASIC DESIGN WIND SPEED (3 SEC GUST) V 115 MPH
-WIND EXPOSURE FACTOR C 1
-TOPOGRAPHIC FACTOR Kzt 1
-RISK CATEGORY II 1
-VELOCITY PRESSURE EXPOSURE COEFFICIENT Kz 0.85
-VELOCITY PRESSURE qz 24.46 PSF

SEISMIC DESIGN:
-SITE CLASS D
SS 3.00g
S1 1.389g
SDS 2.00
SD1 1.39

-SPECTRAL RESPONSE COEFFICIENTS

-LATERAL FORCE RESISTING SYSTEM G.2 ORDINARY CANTILEVERED COLUMN SYSTEM.

-SEISMIC IMPORTANCE FACTOR I 1.0
-DESIGN BASE SHEAR V 3072 LB
-SEISMIC RESPONSE COEFFICIENTS Cs 1.6
-RESPONSE MODIFICATION FACTOR R 1.25
-ANALYSIS PROCEDURE E
EQUIVALENT LATERAL FORCE
-RISK CATEGORY II
-SEISMIC DESIGN CATEGORY E
-SITE COEFFICIENT CATEGORY Fa 1, Fv 1.5

GEHAZARD REPORT IS NOT REQUIRED FOR OPEN FABRIC STRUCTURES 1,600 SQ. FT. OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4 SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQUARE FEET UP TO A MAXIMUM OF 4,000 SQUARE FEET AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO NOT REQUIRE A GEHAZARD REPORT PROVIDED A GEOTECHNICAL REPORT INDICATES THAT NO LIQUEFACTION POTENTIAL EXISTS.

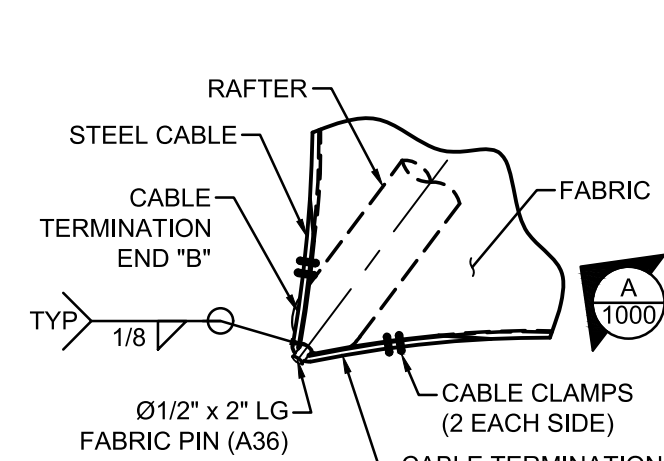
ARCHITECT OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN GEOLOGIC HAZARD ZONE. GEHAZARD REPORT REQUIREMENTS PER DSA IR A-4.

PC OPTIONS SHALL NOT INCLUDE LIQUEFIABLE SOIL (EXCEPTION: OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET OR LESS COMPLYING WITH REQUIREMENTS OF IR A-4 SECTION 3.1.1). IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED. IF SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.

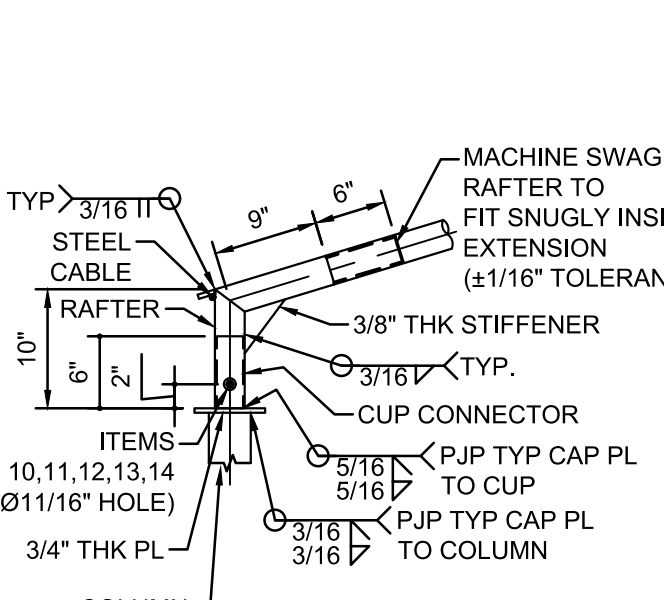
MINIMUM FOUNDATION SETBACK LIMIT IN ADJACENT SLOPE: THE DEPTH OF REQUIRED PIER EMBEDMENT SHALL START FROM AN ELEVATION THAT CORRESPONDS WITH A HORIZONTAL CLEAR DISTANCE OF 14 FEET THAT INTERSECT WITH THE SLOPE (DAYLIGHTING). IF SETBACK LIMITS ARE SMALLER THAN CBC REQUIRES, A SITE-SPECIFIC SOILS REPORT IS REQUIRED.

MINIMUM CLASS 2 PROJECT INSPECTOR REQUIRED.

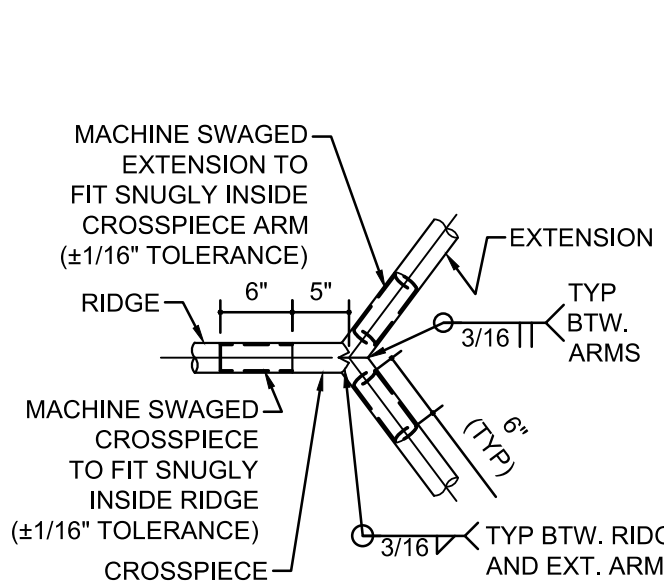
CODE ANALYSIS				
BUILDING	OCCUPANCY	CONST. TYPE	AREA (SQ. FT.)	OCCUPANT LOAD FACTOR
SHADE STRUCTURE				



DETAIL 1
REFER TO TOP VIEW



VIEW-A
REFER TO DETAIL-1

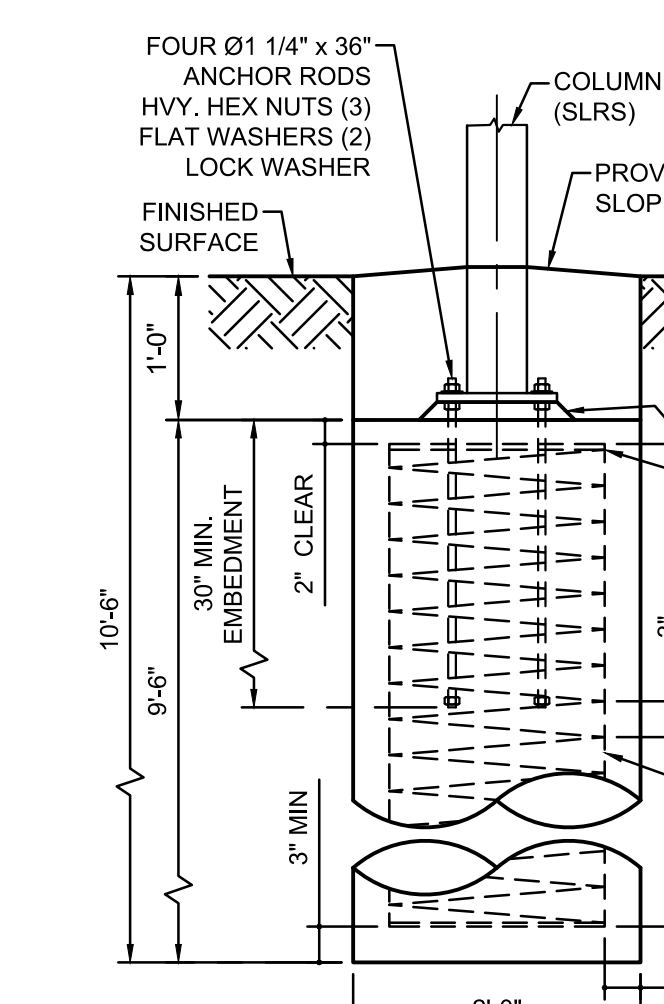
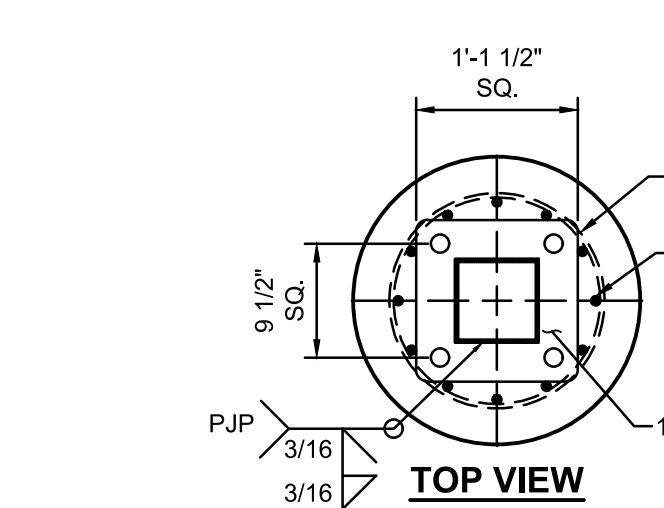


DETAIL-2
REFER TO TOP VIEW

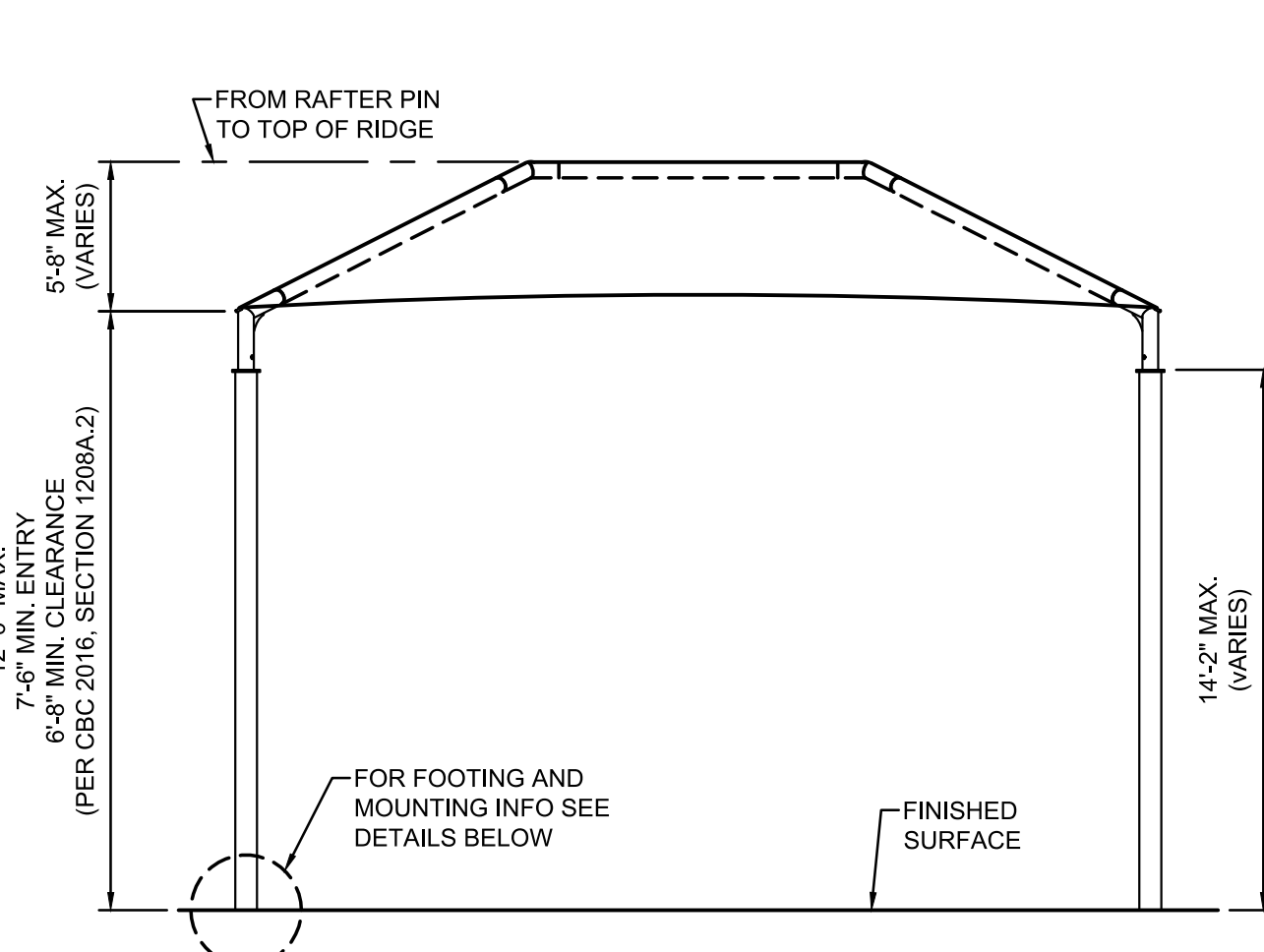
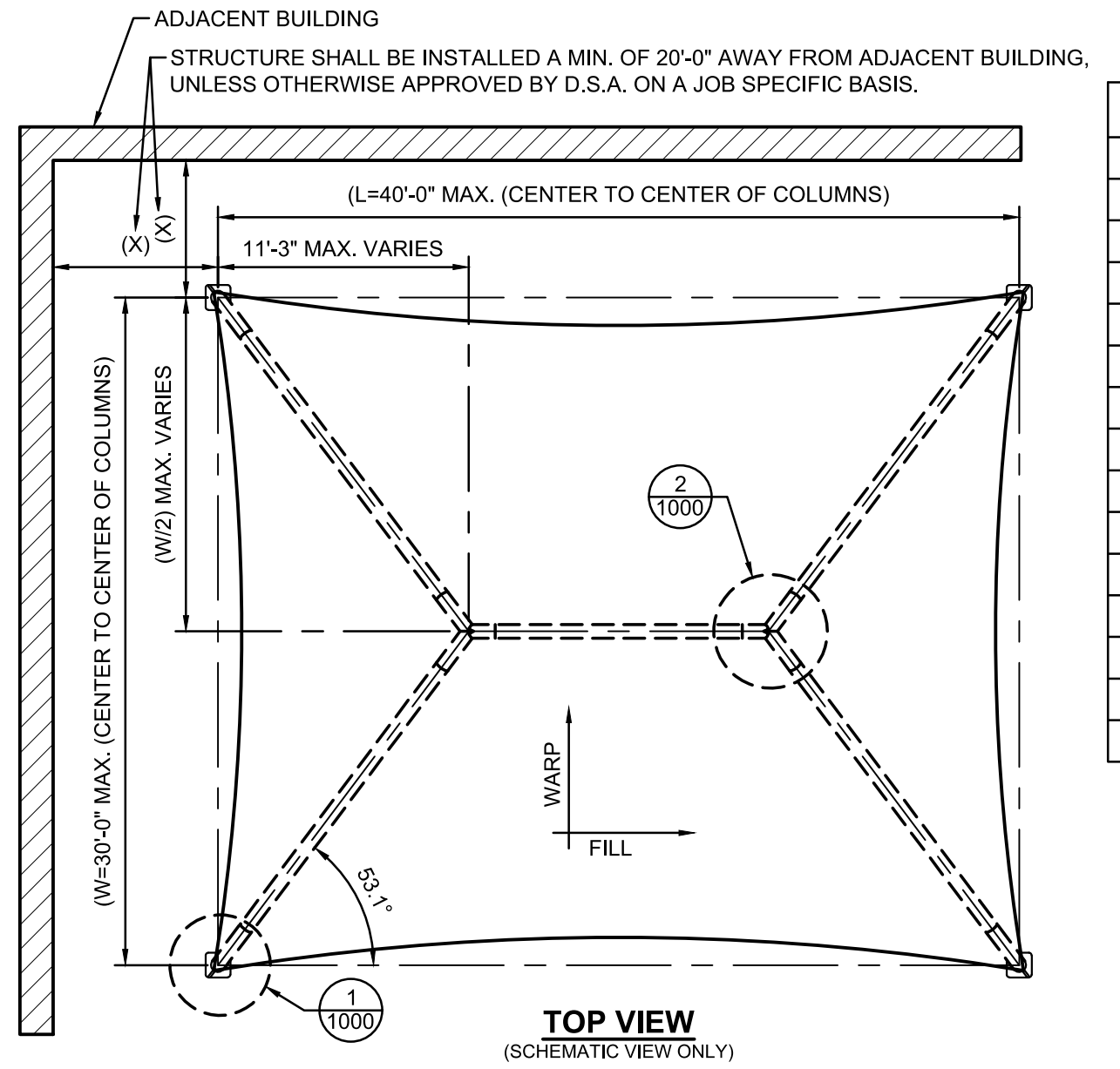


DETAIL-2
REFER TO TOP VIEW

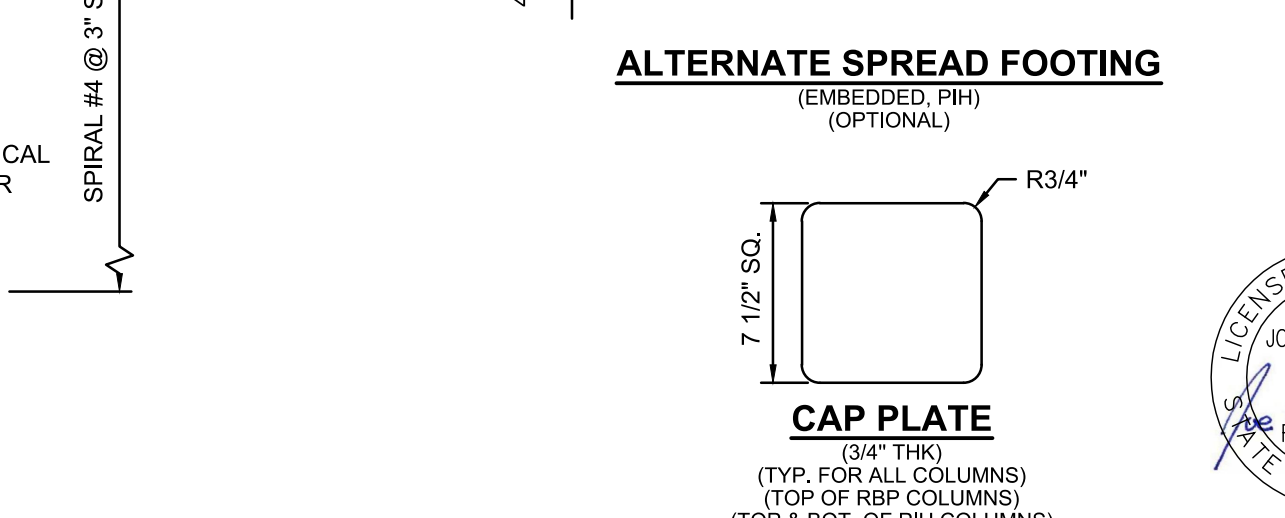
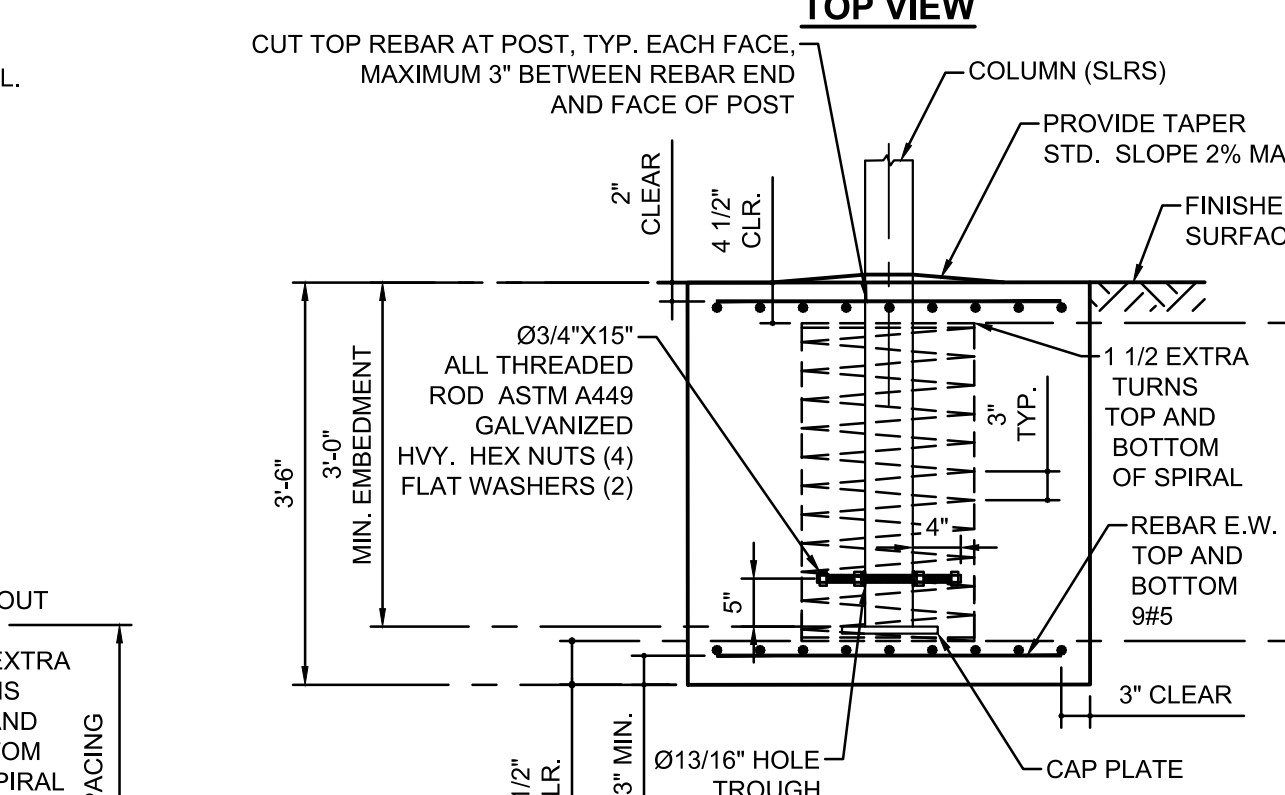
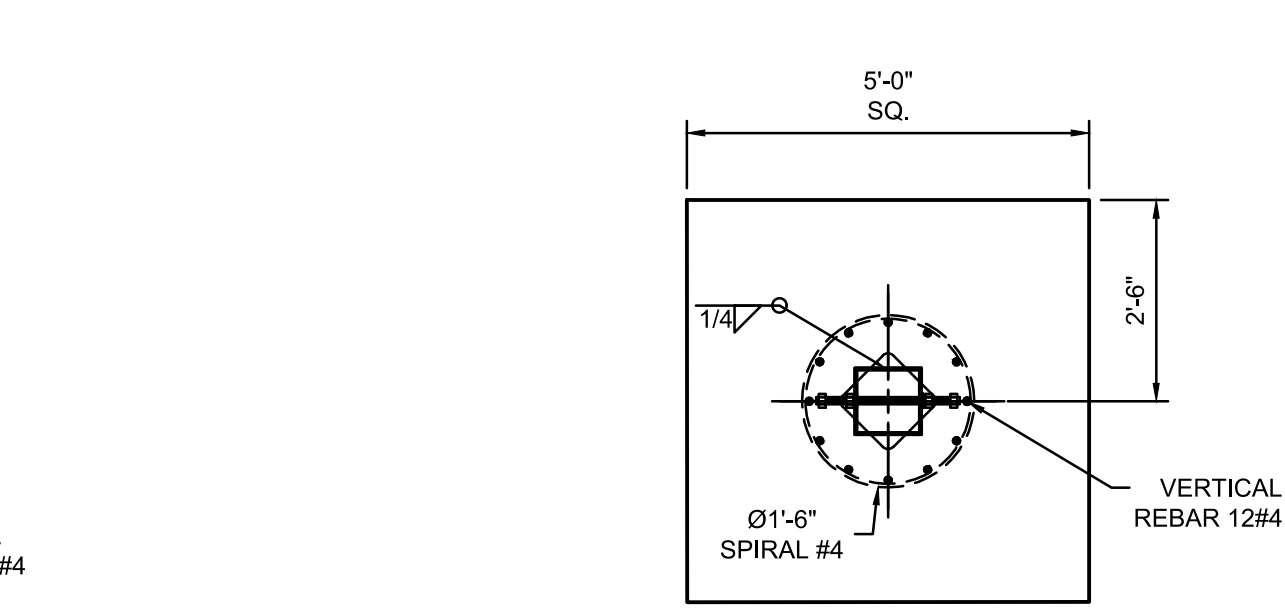
MAXIMUM OCCUPANT LOAD (PER CBC 2019 TABLE 1604A.5)
-K-12: 250 PERSONS
-PUBLIC ASSEMBLY: 300 PERSONS
-EDUCATIONAL OCCUPANCIES ABOVE 12TH GRADE: 500 PERSONS



DRILLED PIER FOOTING-RBP
(RECESSED BASE PLATE, RBP)
(USE FOR NON-CONSTRAINED CASES)
(OPTIONAL)



FRONT VIEW
(SCHEMATIC VIEW ONLY)



LIST OF MATERIALS			
ITEM	QTY	DESCRIPTION	MATERIAL
1	4	COLUMN	HSS 7.0 x 7.0 x 0.250
2	4	CUP CONNECTOR (6\" LG)	HSS 4.5 x 0.375
3	4	RAFTER (GALVANIZED STEEL TUBE)	5.00 GA 7 RD. TUBE (5.0 x 0.188)
4	4	EXTENSION (GALVANIZED STEEL TUBE)	5.00 GA 7 RD. TUBE (5.0 x 0.188)
5	2	CROSSPIECE (GALVANIZED STEEL TUBE)	5.00 GA 7 RD. TUBE (5.0 x 0.188)
6	1	RIDGE (GALVANIZED STEEL TUBE)	5.00 GA 7 RD. TUBE (5.0 x 0.188)
7	1	FABRIC TOP	FR COLOURSHADE Z25
8	1	Ø3/8\" CABLE	GALVANIZED STEEL
9	4	Ø3/8\" CABLE CLAMP	GALVANIZED STEEL
10	4	Ø5/8\"-11NC x 6 1/2\" HEX BOLT	18-8 SS
11	4	Ø5/8\"-11NC HEX NUT	18-8 SS
12	8	Ø5/8\" FLAT WASHER	18-8 SS
13	8	Ø5/8\" FLAT WASHER	DELIN (ACETAL)
14	4	Ø5/8\" SPLIT LOCK WASHER	18-8 SS

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.			
USASHADE & Fabric Structures			
CORPORATE HEADQUARTERS 2580 ESTERS BLVD, SUITE 100 DFW AIRPORT, TX, 75261 800-966-5005			

CERTIFICATIONS:

IAS CERTIFICATION No: FA-428

CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:

Fallbrook Union Elementary School District

PROJECT NAME:

La Paloma Elementary

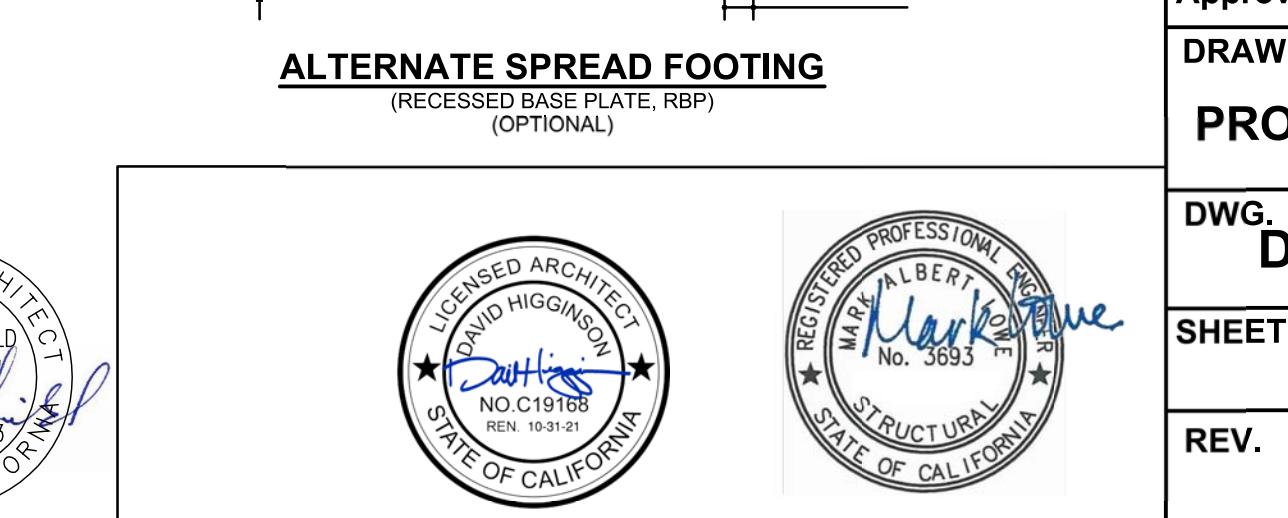
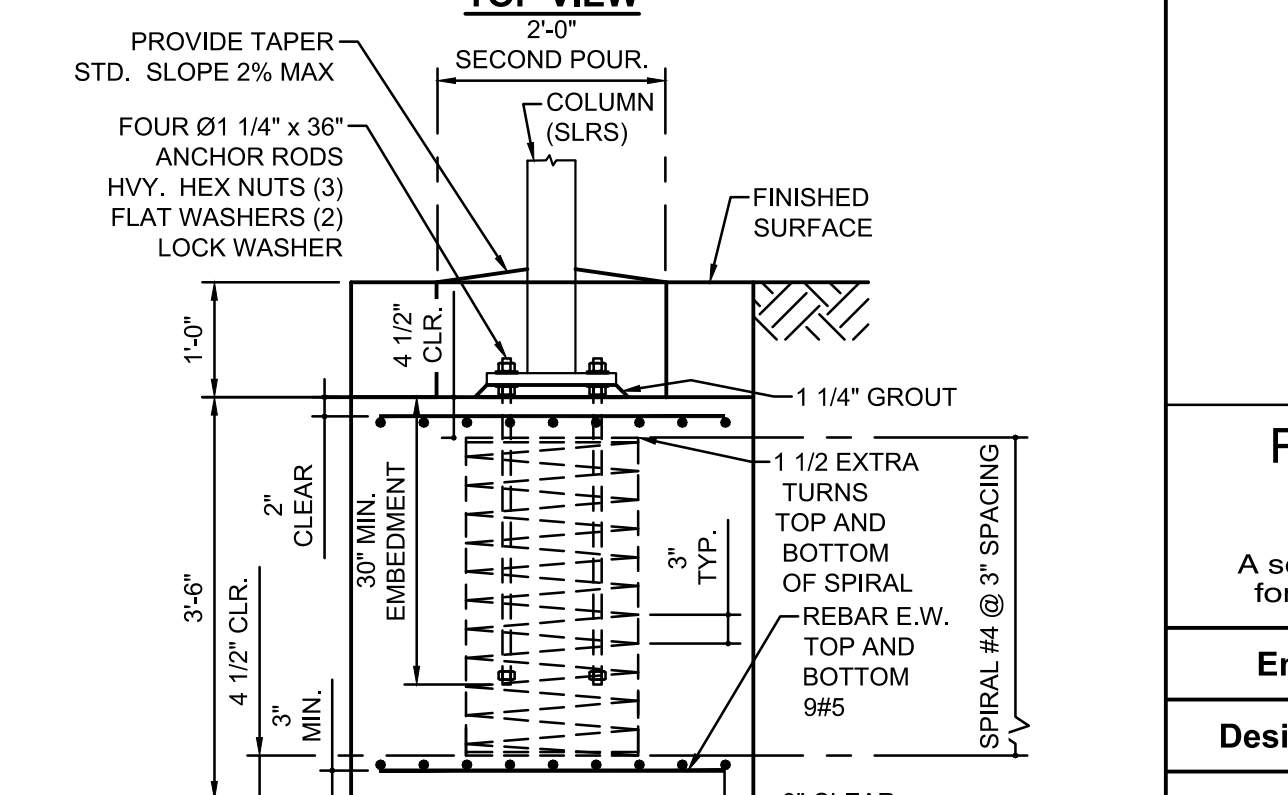
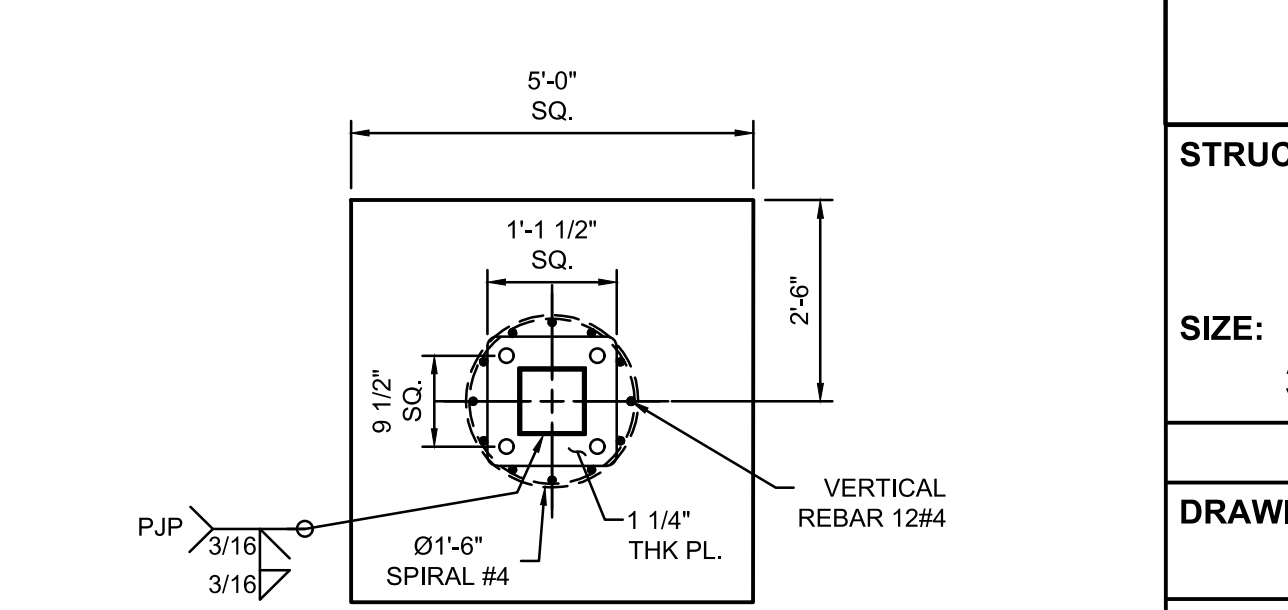
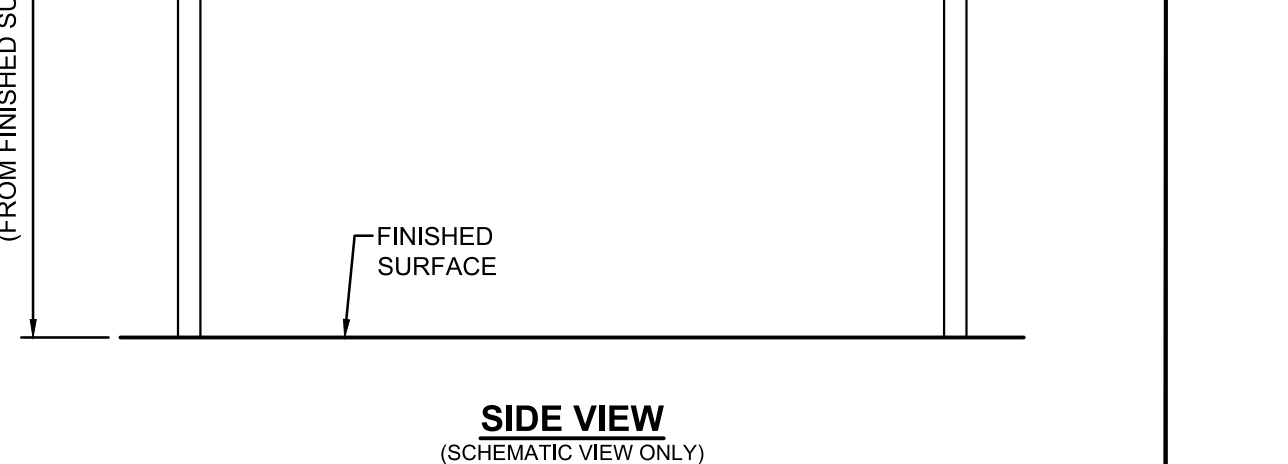
LOCATION:

300 Heald Lane

Fallbrook, CA 92028

MODEL NUMBER:

DSA401304012-19



CAP PLATE
(3/4\"/>

ENVELOPE JOINT REACTIONS

$$\text{Shear resultant} = \sqrt{P_x^2 + P_y^2 + P_z^2} \quad \text{Moment resultant} = \sqrt{M_x^2 + M_y^2 + M_z^2}$$

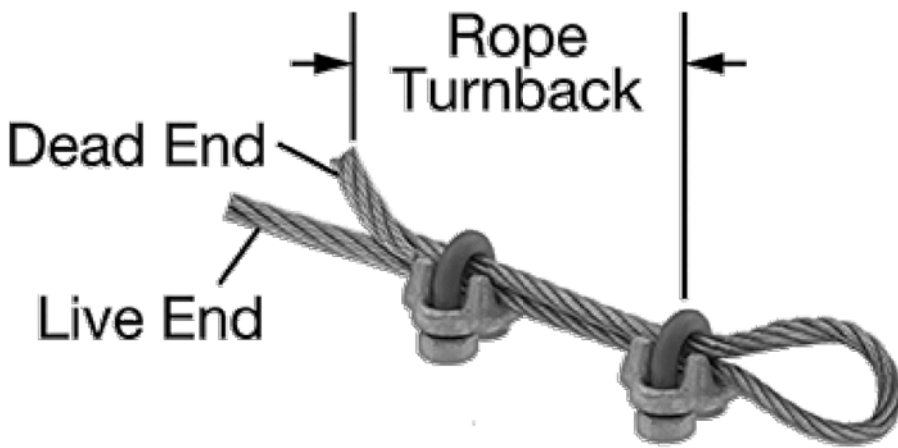
ASD REACTIONS											
Node No.		Support Forces [kip]			Support Moments [kipft]			Support Forces [kip]	Support Moments [kipft]	Support Forces [kip]	Support Forces [kip]
		P _x	P _y	P _z	M _x	M _y	M _z				
MAXIMUM REACTIONS								2.205	22.740	1.518	-2.728
Node No.		Support Forces [kip]			Support Moments [kipft]						
		P _x	P _y	P _z	M _x	M _y	M _z				
84	Max	2.102	1.661	1.518	5.337	22.232	1.319				
	Min	-0.985	-0.666	-2.414	-16.755	-11.068	-0.831				
	Max P _x	2.102	-0.666	1.395	4.782	22.232	-0.695	CO 5	2.205	22.740	1.395
	Min P _x	-0.985	1.661	-2.257	-16.755	-9.581	-0.001	CO 11	1.931	19.301	-2.257
	Max P _y	-0.985	1.661	-2.257	-16.755	-9.581	-0.001	CO 11	1.931	19.301	-2.257
	Min P _y	2.102	-0.666	1.395	4.782	22.232	-0.695	CO 5	2.205	22.740	1.395
	Max P _z	1.987	-0.607	1.518	4.209	20.837	-0.831	CO 34	2.078	21.258	1.518
	Min P _z	0.056	0.431	-2.414	-1.820	3.333	0.673	CO 10	0.435	3.798	-2.414
	Max M _x	0.542	-0.288	-1.601	5.337	7.651	1.254	CO 2	0.614	9.329	-1.601
	Min M _x	-0.985	1.661	-2.257	-16.755	-9.581	-0.001	CO 11	1.931	19.301	-2.257
	Max M _y	2.102	-0.666	1.395	4.782	22.232	-0.695	CO 5	2.205	22.740	1.395
	Min M _y	-0.977	1.467	-1.402	-15.854	-11.068	0.502	CO 32	1.763	19.335	-1.402
	Max M _z	0.497	-0.223	-1.607	4.641	7.284	1.319	CO 31	0.545	8.637	-1.607
	Min M _z	1.987	-0.607	1.518	4.209	20.837	-0.831	CO 34	2.078	21.258	1.518
86	Max	1.517	1.125	0.601	6.957	20.252	2.275				
	Min	-0.320	-0.773	-2.727	-10.349	-1.828	-1.322				
	Max P _x	1.517	0.367	-2.140	-5.245	20.252	2.275	CO 32	1.561	20.920	-2.140
	Min P _x	-0.320	-0.735	-1.474	6.658	-1.828	0.366	CO 30	0.802	6.904	-1.474
	Max P _y	0.862	1.125	0.588	-10.349	7.621	-0.292	CO 5	1.417	12.852	0.588
	Min P _y	-0.281	-0.773	-1.718	6.957	-1.231	0.403	CO 1	0.822	7.065	-1.718
	Max P _z	0.795	1.053	0.601	-9.614	7.001	-0.277	CO 34	1.319	11.893	0.601
	Min P _z	0.726	-0.482	-2.727	3.202	12.067	1.774	CO 11	0.871	12.485	-2.727
	Max M _x	-0.281	-0.773	-1.718	6.957	-1.231	0.403	CO 1	0.822	7.065	-1.718
	Min M _x	0.862	1.125	0.588	-10.349	7.621	-0.292	CO 5	1.417	12.852	0.588
	Max M _y	1.517	0.367	-2.140	-5.245	20.252	2.275	CO 32	1.561	20.920	-2.140
	Min M _y	-0.320	-0.735	-1.474	6.658	-1.828	0.366	CO 30	0.802	6.904	-1.474
	Max M _z	1.517	0.367	-2.140	-5.245	20.252	2.275	CO 32	1.561	20.920	-2.140
	Min M _z	0.495	0.223	-1.607	-4.640	7.254	-1.322	CO 31	0.543	8.611	-1.607
88	Max	0.737	1.233	1.053	10.995	5.818	0.294				
	Min	-1.518	-1.075	-2.728	-11.441	-20.264	-2.270				
	Max P _x	0.737	-0.728	-1.555	6.953	5.730	-0.749	CO 14	1.036	9.010	-1.555
	Min P _x	-1.518	0.369	-2.140	-5.271	-20.264	-2.270	CO 32	1.562	20.938	-2.140
	Max P _y	-0.902	1.233	1.006	-11.441	-8.306	0.167	CO 4	1.528	14.138	1.006
	Min P _y	0.525	-1.075	-1.988	10.995	4.352	-1.317	CO 10	1.196	11.825	-1.988
	Max P _z	-0.802	1.142	1.053	-10.471	-7.257	0.159	CO 33	1.395	12.740	1.053
	Min P _z	-0.727	-0.481	-2.728	3.184	-12.083	-1.770	CO 11	0.872	12.495	-2.728
	Max M _x	0.525	-1.075	-1.988	10.995	4.352	-1.317	CO 10	1.196	11.825	-1.988
	Min M _x	-0.902	1.233	1.006	-11.441	-8.306	0.167	CO 4	1.528	14.138	1.006
	Max M _y	0.663	-0.189	-0.681	2.050	5.818	-0.585	CO 16	0.689	6.169	-0.681
	Min M _y	-1.518	0.369	-2.140	-5.271	-20.264	-2.270	CO 32	1.562	20.938	-2.140
	Max M _z	-0.863	1.127	0.589	-10.370	-7.634	0.294	CO 5	1.419	12.877	0.589
	Min M _z	-1.518	0.369	-2.140	-5.271	-20.264	-2.270	CO 32	1.562	20.938	-2.140
90	Max	0.984	1.661	1.516	11.435	11.053	1.356				
	Min	-2.100	-1.232	-2.256	-16.762	-22.223	-0.500				
	Max P _x	0.984	1.661	-2.256	-16.762	9.574	0.001	CO 11	1.931	19.304	-2.256
	Min P _x	-2.100	-0.664	1.394	4.771	-22.223	0.694	CO 5	2.202	22.729	1.394
	Max P _y	0.984	1.661	-2.256	-16.762	9.574	0.001	CO 11	1.931	19.304	-2.256
	Min P _y	-0.902	-1.232	1.005	11.435	-8.303	-0.169	CO 4	1.527	14.131	1.005
	Max P _z	-1.985	-0.604	1.516	4.139	-20.825	0.829	CO 34	2.075	21.243	1.516
	Min P _z	0.984	1.661	-2.256	-16.762	9.574	0.001	CO 11	1.931	19.304	-2.256
	Max M _x	-0.902	-1.232	1.005	11.435	-8.303	-0.169	CO 4	1.527	14.131	1.005
	Min M _x	0.984	1.661	-2.256	-16.762	9.574	0.001	CO 11	1.931	19.304	-2.256
	Max M _y	0.975	1.467	-1.400	-15.860	11.053	-0.500	CO 32	1.761	19.332	-1.400
	Min M _y	-2.100	-0.664	1.394	4.771	-22.223	0.694	CO 5	2.202	22.729	1.394

BASIC LOAD CASES

DEAD LOAD 0.0378 PSF (FABRIC)
FLOOR LIVE LOAD N/A
ROOF LIVE LOAD 5 PSF
ROOF SNOW LOAD 5 PSF
SUPERIMPOSED LOADS N/A

WIND LOAD
BASIC DESIGN WIND SPEED (3 SEC GUST) 115 MPH
VELOCITY PRESSURE q_z 24.46 PSF
COMPONENT AND CLADDING q_z
(CABLE AND CABLE HARDWARE ONLY) 24.46 PSF

SEISMIC LOAD
SEISMIC RESPONSE COEFFICIENTS C_s 1.6
DESIGN BASE SHEAR 3072 LB



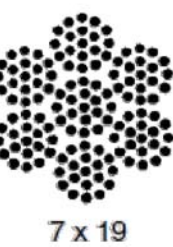
FORGED WIRE ROPE CLAMP

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

Aircraft Cable

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

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



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

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

CERTIFICATIONS:

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

CUSTOMER:

Fallbrook Union Elementary
School District

PROJECT NAME:

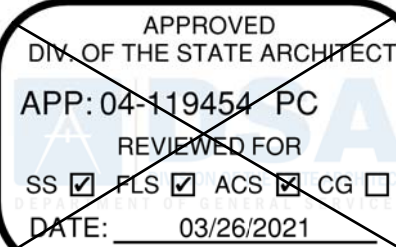
La Paloma Elementary

LOCATION:

300 Heald Lane
Fallbrook, CA 92028

MODEL NUMBER:

DSA401304012-19



STRUCTURE TYPE:

H I P
DSA

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

SCALE : NONE

DRAWING SIZE:

D

PRE-CHECK (PC) DOCUMENT

Code : 2019 CBC
A separate project application for construction is required.

Eng. By : JO 08/15/20

Design By : MP 08/15/20

Approved By : JO 08/15/20

DRAWING DESCRIPTION:

REACTIONS

DWG. DSA401304012-19

SHEET 22.2-2000

REV. NC



GENERAL NOTES
DESIGN LOADS

BUILDING CODE	CBC 2019 (BASED ON IBC 2019)
LIVE LOADS	5 PSF
SNOW LOAD	5 PSF
WIND LOADS	115 MPH (3-Sec. Gust); EXPOSURE C; TOPOGRAPHIC FACTOR, Kzt = 1.0

1.- SPECIAL INSPECTION REQUIREMENTS SHALL FOLLOW THE ATTACHED SAMPLE TEST AND INSPECTION LIST (T & I LIST) APPROVED BY DSA, THE SHOP WELDING INSPECTION SHALL INCLUDE WELDING OF ALL STEEL MEMBERS AND IDENTIFICATION OF STEEL THROUGH MILL CERTIFICATE OR MATERIAL TESTING. UNCERTIFIED STEEL SHALL BE TESTED TO THE REQUIREMENTS OF CBC 2019 CHAPTER 17A, THE FIELD SPECIAL INSPECTION SHALL INCLUDE COMPRESSION CYLINDER TESTS FOR THE CONCRETE FOUNDATION.

2.- STRUCTURE SHALL BE IN THE LOCATION SHOWN ON THE SITE SPECIFIC DSA APPLICATION DRAWING.

3.- FOUNDATION DESIGN BASED ON CBC 2019, TABLE 1806A.2, SOIL CLASS 5 (ALLOWABLE FOUNDATION PRESSURE 1500 PSF)

4.- DESIGN PER FOLLOWING CODES: CBC 2019, ASCE 7-16, AISC 360-16, AISC 341-16, ACI 318-14, ASCE 55-16 & ASCE 19-16

STRUCTURAL STEEL

1.- FABRICATION OF THE STEEL STRUCTURES SHALL BE PERFORMED BY SHADE STRUCTURES OR AN AUTHORIZED LICENSEE, MATERIAL TESTING (OR MILL CERTIFICATES) AND INSPECTION OF WELDING SHALL BE CONDUCTED PER CBC 2019 SECTIONS 1704A, 1705A, 1705A.2, AND TABLE 1705A.2.1.

2.- ONLY CALIFORNIA LICENSED CONTRACTORS AUTHORIZED BY SHADE STRUCTURES SHALL INSTALL THE SHADE STRUCTURES.

3.- ALL WORK SHALL CONFORM TO CBC 2019 EDITION, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

4.- ALL GALVANIZED STEEL TUBE PRODUCTS MANUFACTURED BY ALLIED TUBE & CONDUIT FOR THIS STRUCTURE SHALL BE, AND CONFORM TO ASTM A500-16, IN ITS' ENTIRETY.

TYPICAL MECHANICAL PROPERTIES ARE:
ROUND TUBE 42,000 PSI YIELD STRESS MINIMUM / 48,000 PSI TENSILE STRESS MINIMUM

5.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE B, UNLESS OTHERWISE NOTED. TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR HSS PRODUCTS:
SQUARE AND RECTANGULAR 46,000 PSI YIELD STRESS / 58,000 PSI TENSILE STRESS
ROUND PIPE 42,000 PSI YIELD STRESS / 58,000 PSI TENSILE STRESS

6.- ALL PLATES PRODUCTS SHALL COMPLY WITH ASTM A572 GRADE 50.

7.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

8.- ALL WELDING TO CONFORM WITH AMERICAN WELDING SOCIETY STANDARDS AND SHALL BE INSPECTED BY AN AWS/CWI INSPECTOR. AWS D1.1 FOR HOT ROLLED. AWS D1.3 FOR SHEET/COLD FORMED. AWS D1.8 SEISMIC SUPPLEMENT.

9.- ALL FULL PENETRATION WELD SHALL BE CONTINUOUSLY INSPECTED PER AWS D1.1 & D1.8.

10.- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. FIELD CONNECTIONS SHALL BE AS INDICATED ON THE DRAWINGS (IF REQUIRED). ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" ER70S-X ELECTRODES UNLESS OTHERWISE NOTED. EITHER SMAW OR GMAW IS ACCEPTABLE.

11.- ALL STAINLESS STEEL BOLTS SHALL COMPLY WITH ASTM F-593, YIELD STRENGTH= 65 KSI, TENSILE STRENGTH=100 KSI MINIMUM, ALLOY GROUP 1, CONDITION CW1. ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 1, CONDITION CW1. REFERRING TO RCSC, ASTM F-593 IS NOT CONSIDERED AS HIGH STRENGTH BOLTS.

12.- ALL HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM F3125 GRADE A325 N (GALVANIZED). ALL NUTS SHALL COMPLY WITH ASTM A563DH, AND WASHERS SHALL COMPLY WITH ASTM F436.

13.- HIGH STRENGTH BOLTS ITEM 11 SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION.

14.- HIGH STRENGTH BOLTS ITEM 7 SHALL BE TIGHTENED TO A PRE-TENSIONED (PT) CONDITION. PER TABLE 4.1 OF SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS (RCSC 2016), ITEM 7 SHALL BE INSTALLED PER SECTION 8.2 AND INSPECTED PER SECTION 9.2. FAYING SURFACE CLASS A OR B IS NOT REQUIRED. SPECIFIED MINIMUM PRE-TENSION IS 51 KIPS. TESTING AND INSPECTION IS REQUIRED PER DSA-103 180 PT-FULLY PRE-TENSIONED CONNECTIONS. NUT TESTING SHALL FOLLOW ONE OF THESE METHODS: TURN OF THE NUT (1/4 OR 1/2 TURN), DYE WASHER OR TORQUE WRENCH. THE INSPECTOR AND GC TO DETERMINE WHAT METHOD TO USE PRIOR TO START THE BOLTING.

15.- ALL STRUCTURAL STEEL (ITEMS FROM NOTE 5) SHALL BE POWDER COATED WITH ONE SHOP COAT (2.5 MILS MIN.) OF ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT, OR EQUIVALENT PAINT SYSTEM. THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS, ASKO NOBEL, PPG OR TIGER DRYLAC), TO ACHIEVE OPTIMUM ADHESION. IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:
- PENCIL HARDNESS (ASTM D-3363). - HUMIDITY (ASTM D-2247).
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL. SOFTNESS.

16.- ALL STEEL ROUND TUBING (ITEMS FROM NOTE 4) SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

17.- COLD-FORMED STEEL MEMBERS SHALL BE 55% ALUMINUM ZINC ALLOY COATED PER ASTM A792/A792M STANDARD IN ACCORDANCE TO AISI S200 TABLE A4-1, CP 90 COATING DESIGNATION. ALL EXPOSED STEEL FASTENERS SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT DIP GALVANIZED (ASTM A153, CLASS D MINIMUM OR ASTM F2329), OR PROTECTED WITH CORROSION PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF 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.

CONCRETE SPECIFICATION

1.- CONCRETE SHALL BE SAMPLED AND TESTED PER CBC 2019 SECTION 1903A & SHALL BE INSPECTED PER SECTION 1903A.

2.- CONCRETE TO BE F'c= 4500 PSI, TYPE V CEMENT, WATER/CEMENT RATIO OF 0.45, PER ACI 318-14 CHAPTER 5. REINFORCING STEEL TO BE Fy= 60000 PSI, MIN. GR. 60

3.- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 55 (GALVANIZED PER ASTM A153, CLASS D MINIMUM OR ASTM F2329). ANCHOR BOLTS EMBEDMENT NEEDS TO BE AS FOLLOWS:
A) ANCHOR BOLT Ø1 1/4" 30 IN (MINIMUM EMBEDMENT)

4.- CERTIFIED MILL TEST REPORTS ARE TO BE PROVIDED FOR EACH SHIPMENT OF REINFORCEMENT.

5.- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090, ASTM C1107, WHEN APPLICABLE.

FABRIC SPECIFICATION

1.- FABRIC SHALL BE MANUFACTURED BY MULTIKNIT LTD. OR OTHER COMPANY WHO CAN MANUFACTURE FABRIC, WHICH MEETS THE SPECIFICATIONS LISTED ON PAGE 2000, AND SHALL BE FABRICATED FROM POLYETHYLENE MATERIALS.

2.- THE FABRIC SHALL RETAIN 80% OF ITS TENSILE AND TEARING STRENGTH AFTER ULTRAVIOLET EXPOSURE PER ASTM G53 USING A 313 NM LIGHT SOURCE FOR 500 HOURS WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS.

3.- PROVIDE CERTIFICATION BY MANUFACTURER AND STATE FIRE MARSHAL TO SCHOOL'S DISTRICT INSPECTOR OF RECORD AT SITE SPECIFIC INSTALLATION. COPY OF FIRE CERTIFICATION SHALL BE SENT TO DSA.

4.- FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE BY THE DISTRICT. FABRICS SAMPLES OF THE SAME MATERIAL WHICH ARE MAINTAINED AT THE PROJECTS SITE SHALL BE TESTED TO BE IN COMPLIANCE WITH ASTM D5034 AND D2261. THE ANNUAL TESTING ON THE APPROVED PLANS SHALL BE COMPARED TO THE FABRIC SPECIFICATIONS INDICATED IN NOTE 1 OF "FABRIC SPECIFICATION" ON THE APPROVED PLANS. THE FABRIC SHALL BE REPLACED WHEN THE TEST RESULTS RETURN LESS THAN 50% OF THE ULTIMATE VALUES IN NOTE 1 OF "FABRIC SPECIFICATION". FIRE TEST ON FABRIC: NFPA 701 TEST 2 AND ASTM E 84 EXTENDED 30 MINUTES TEST, FLAME SPREAD INDEX (FSI): 10, SMOKE DEVELOPED INDEX (SDI): 50. FABRIC IS ACCEPTABLE FOR USE IN WILDLIFE URBAN INTERFACE AREA.

5.- FABRIC TOP NEEDS TO BE REMOVED IF SNOW EXCEEDING 5 PSF ARE ANTICIPATED. FABRIC TOP NEEDS TO BE REMOVED IF WINDS EXCEEDING 115 MPH ARE ANTICIPATED.

6.- A VISUAL INSPECTION LOOKING FOR TEAR AND ABNORMAL WEAR IN FABRIC MATERIAL AND THREAD IS REQUIRED PRIOR TO RE-INSTALLATION. USA SHADE & FABRIC STRUCTURES SHALL BE NOTIFIED IF SIGNIFICANT DAMAGE IS PRESENT BEFORE RE-INSTALLATION.

AIRCRAFT CABLE

1.- FOR FABRIC ATTACHMENT USE 1/4" 7x19 GALV. CABLE PER ASTM A1023A, ASTM 1023M-02, WITH A BREAKING STRENGTH VALUE OF 7000 LBS. CABLE SHALL BE TENSIONED TO 250 LBS MINIMUM. THE MAXIMUM CALCULATED CABLE ALLOWABLE CAPACITY IS Sa=2386 LB.

2.- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTING VISITS AS REQUIRED.

2019 CBC PC DESIGN NOTES

FLOOR LIVE LOAD	N/A
ROOF LIVE LOAD	5 PSF

ALLOWABLE SOIL PRESSURE:
DL + LL (CONC FTG) 1500 PSF
DL + LL + SEISMIC (CONC FTG) 1500 PSF
LATERAL BEARING DESIGN VALUE 100 PSF/FT BELOW NATURAL GRADE, PER TABLE 1806A.2

TWO TIMES THE TABULAR VALUE IS USED (200 PSF/FT)
PER CBC SECTION 1806A.3.4
ALLOWABLE PIER FRICTIONAL RESISTANCE 250 PSF MAXIMUM
BASED ON SECTION 1810A.3.3.1.4 (ONE-SIXTH OF THE BEARING VALUE).
UPLIFT FRICTIONAL RESISTANCE HAVE A SAFETY FACTOR OF 3.

ROOF SNOW LOAD	5 PSF
ICE LOAD	ZERO PSF
FLOOD HAZARD AREA	NO

WHEN A SITE SPECIFIC 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 THE PC ARE STILL APPLICABLE.

WIND DESIGN DIRECTIONAL PROCEDURE: ASCE 7-16, SECTION 27.3.2	
-BASIC DESIGN WIND SPEED (3 SEC GUST) V	115 MPH
-WIND EXPOSURE FACTOR C	
-TOPOGRAPHIC FACTOR Kzt	1
-RISK CATEGORY II	
-VELOCITY PRESSURE EXPOSURE COEFFICIENT Kz	0.85
-VELOCITY PRESSURE qz	24.46 PSF

SEISMIC DESIGN:
-SITE CLASS D

SS	3.00g
S1	1.389g
SDS	2.00
SD1	1.39

-LATERAL FORCE RESISTING SYSTEM G.2 ORDINARY CANTILEVERED COLUMN SYSTEM.

-SEISMIC IMPORTANCE FACTOR I	1.0
-DESIGN BASE SHEAR V	2030 LB
-SEISMIC RESPONSE COEFFICIENT Cs	1.6
-RESPONSE MODIFICATION FACTOR R	1.25
-ANALYSIS PROCEDURE II	EQUIVALENT LATERAL FORCE
-RISK CATEGORY	
-SEISMIC DESIGN CATEGORY	E
-SITE COEFFICIENT CATEGORY Fa:1 Fv:1.5	

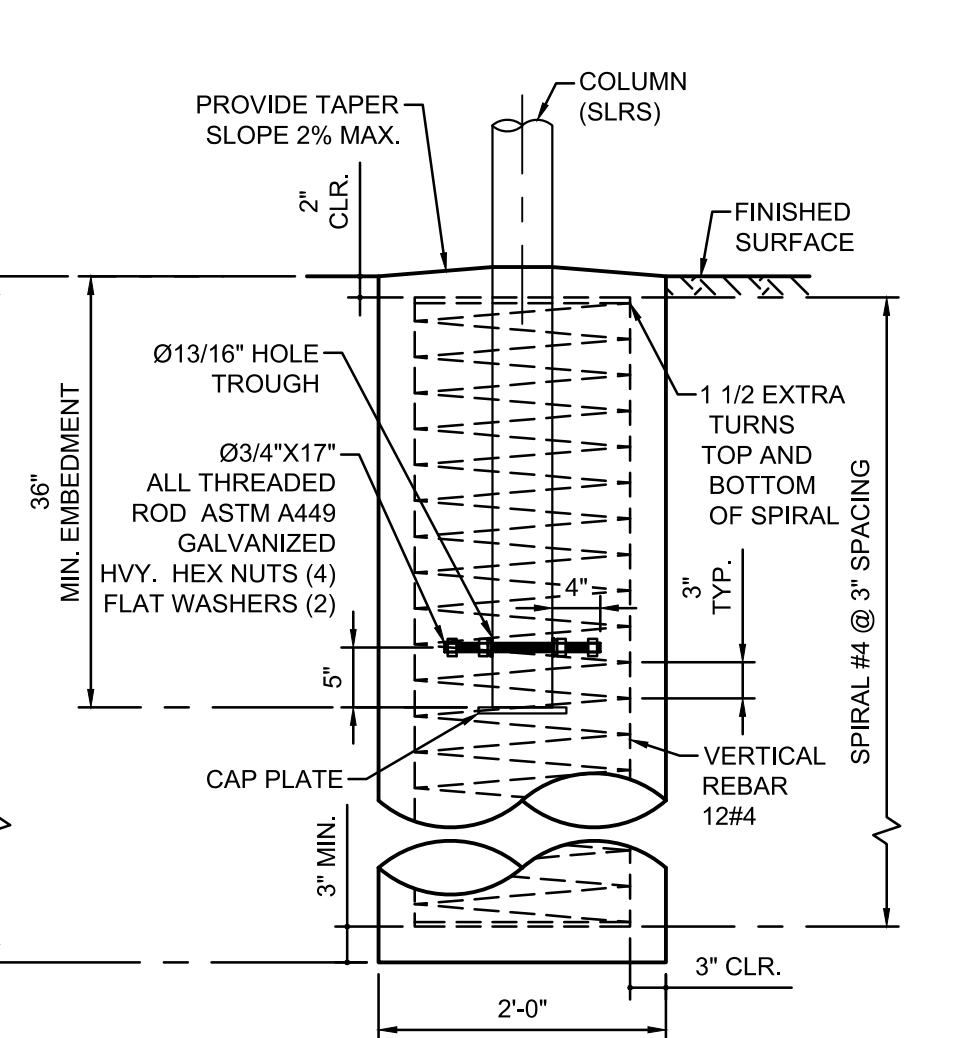
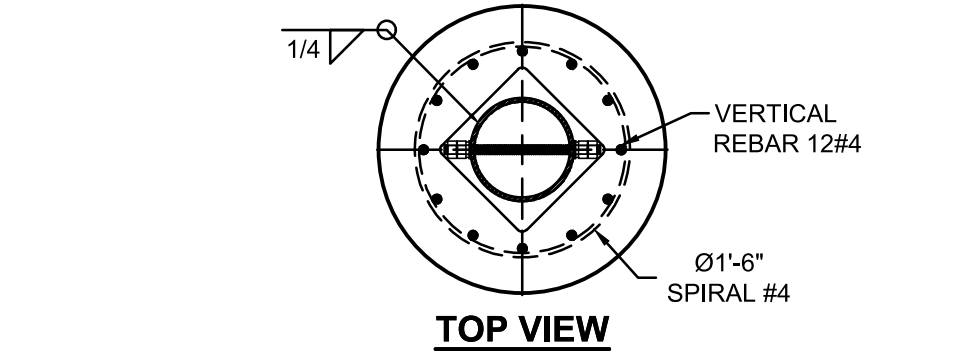
GEOHAZARD REPORT IS NOT REQUIRED FOR OPEN FABRIC STRUCTURES 1,600 SQF OR LESS COMPLYING WITH THE REQUIREMENTS OF IR A-4 SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQUARE FEET UP TO A MAXIMUM OF 4,000 SQUARE FEET AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR A-4 SECTION 3.1.1 DO NOT REQUIRE A GEOHAZARD REPORT PROVIDED A GEOTECHNICAL REPORT INDICATES THAT NO LIQUEFACTION POTENTIAL EXISTS.

ARCHITECT OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN GEOLOGIC HAZARD ZONE. GEOHAZARD REPORT REQUIREMENTS PER DSA IR A-4.

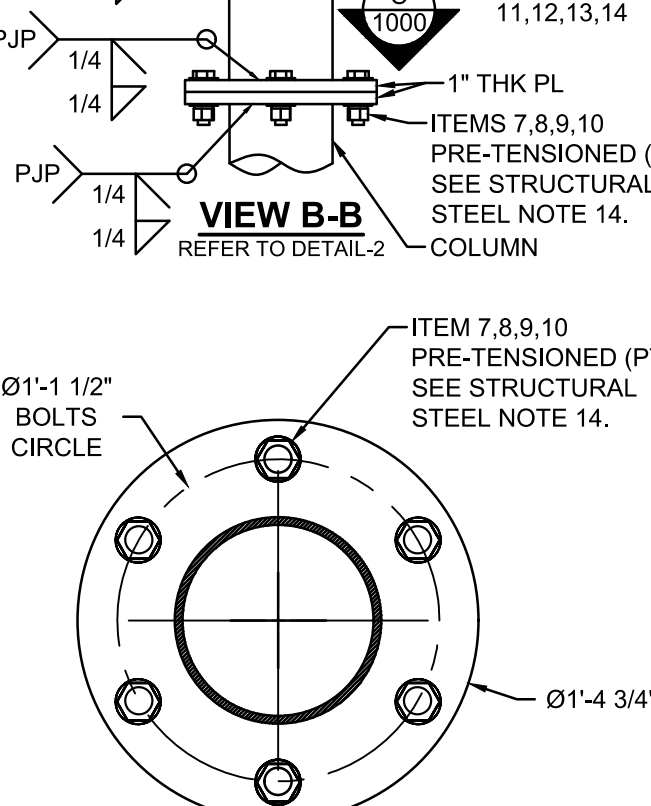
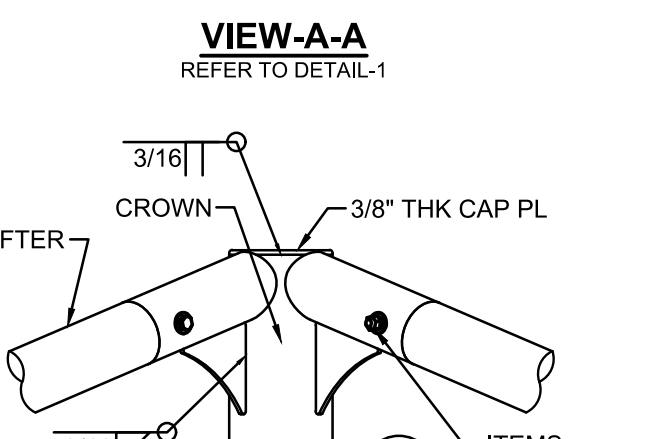
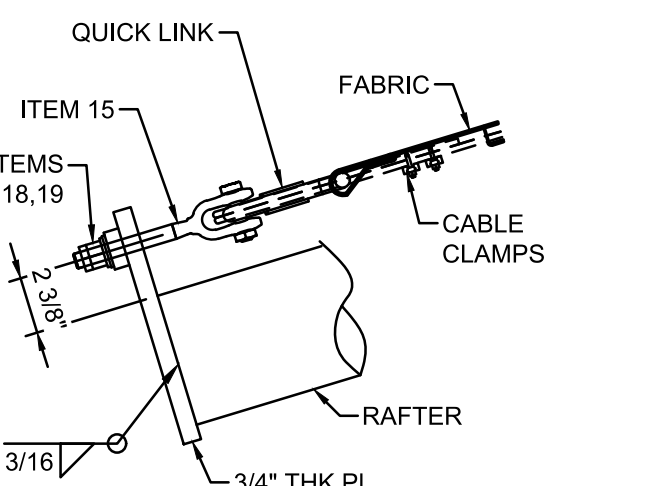
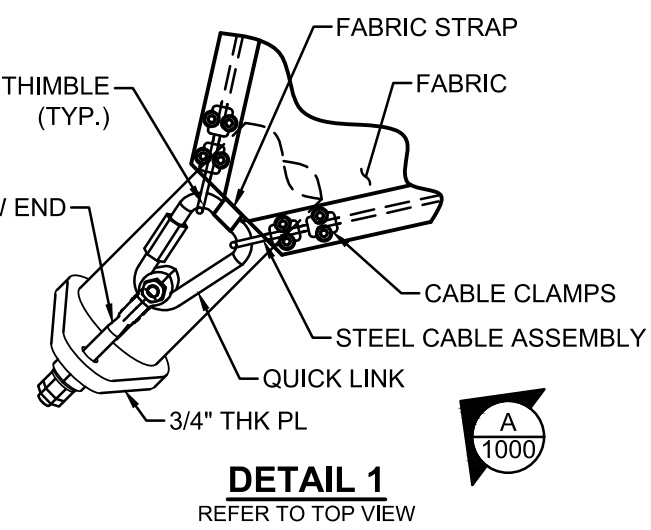
PC OPTIONS SHALL NOT INCLUDE LIQUEFIABLE SOIL (EXCEPTION: OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET OR LESS COMPLYING WITH REQUIREMENTS OF IR A-4 SECTION 3.1.1). IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED. IF SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.

MINIMUM FOUNDATION SETBACK LIMIT IN ADJACENT SLOPE: THE DEPTH OF REQUIRED PIER EMBEDMENT SHALL START FROM AN ELEVATION THAT CORRESPONDS WITH A HORIZONTAL CLEAR DISTANCE OF 14 FEET THAT INTERSECT WITH THE SLOPE (DAYLIGHTING). IF SETBACK LIMITS ARE SMALLER THAN CBC REQUIRES, A SITE-SPECIFIC SOILS' REPORT IS REQUIRED.

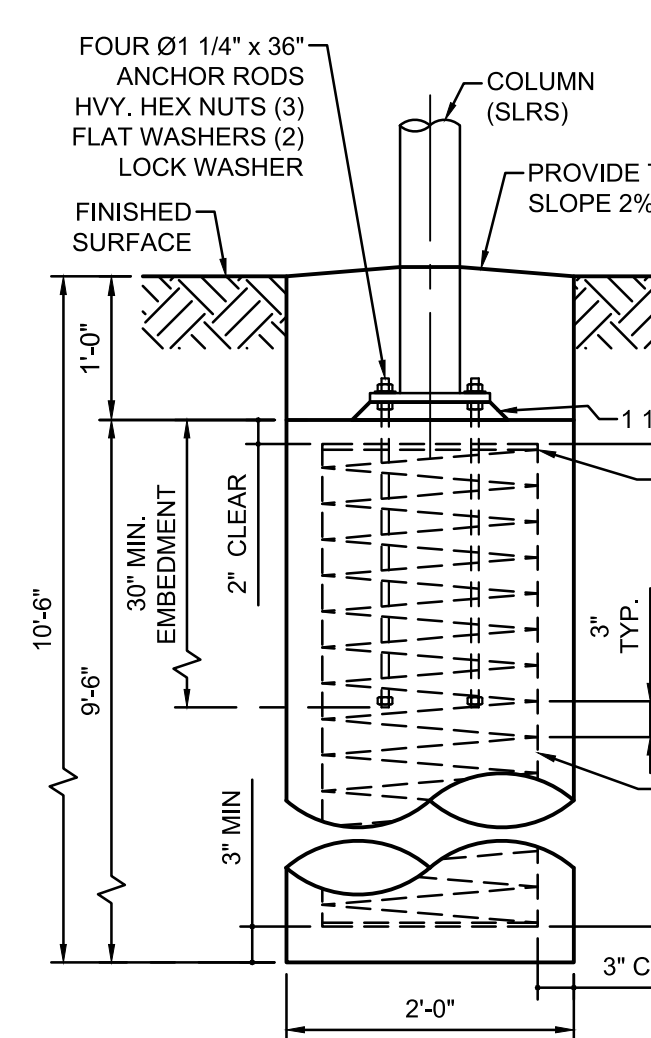
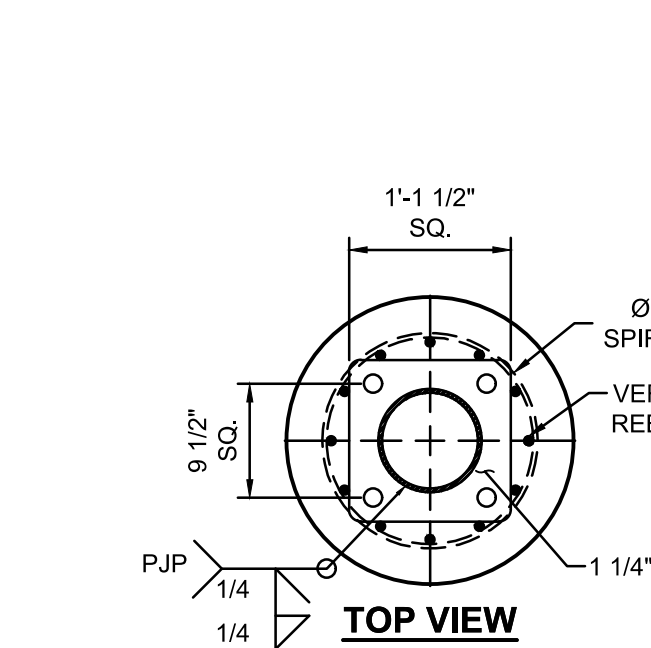
MINIMUM CLASS 2 PROJECT INSPECTOR REQUIRED.



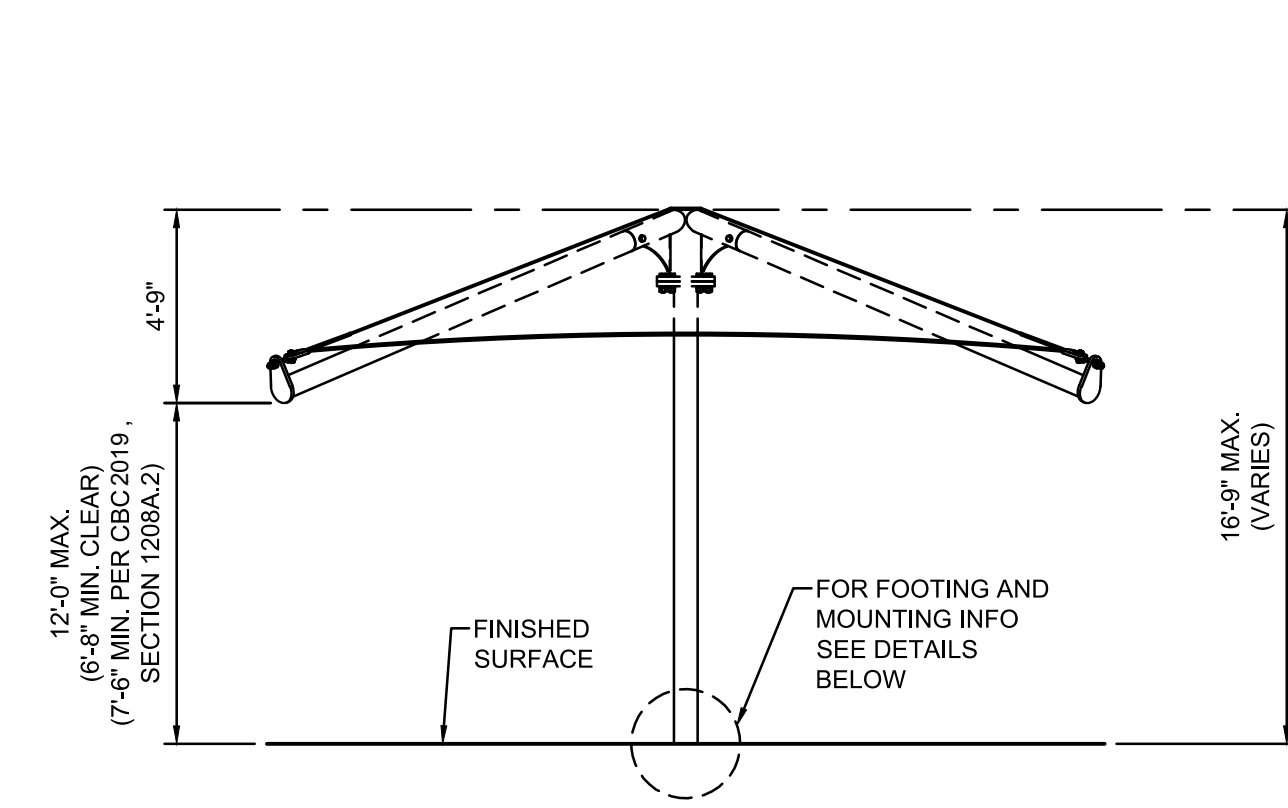
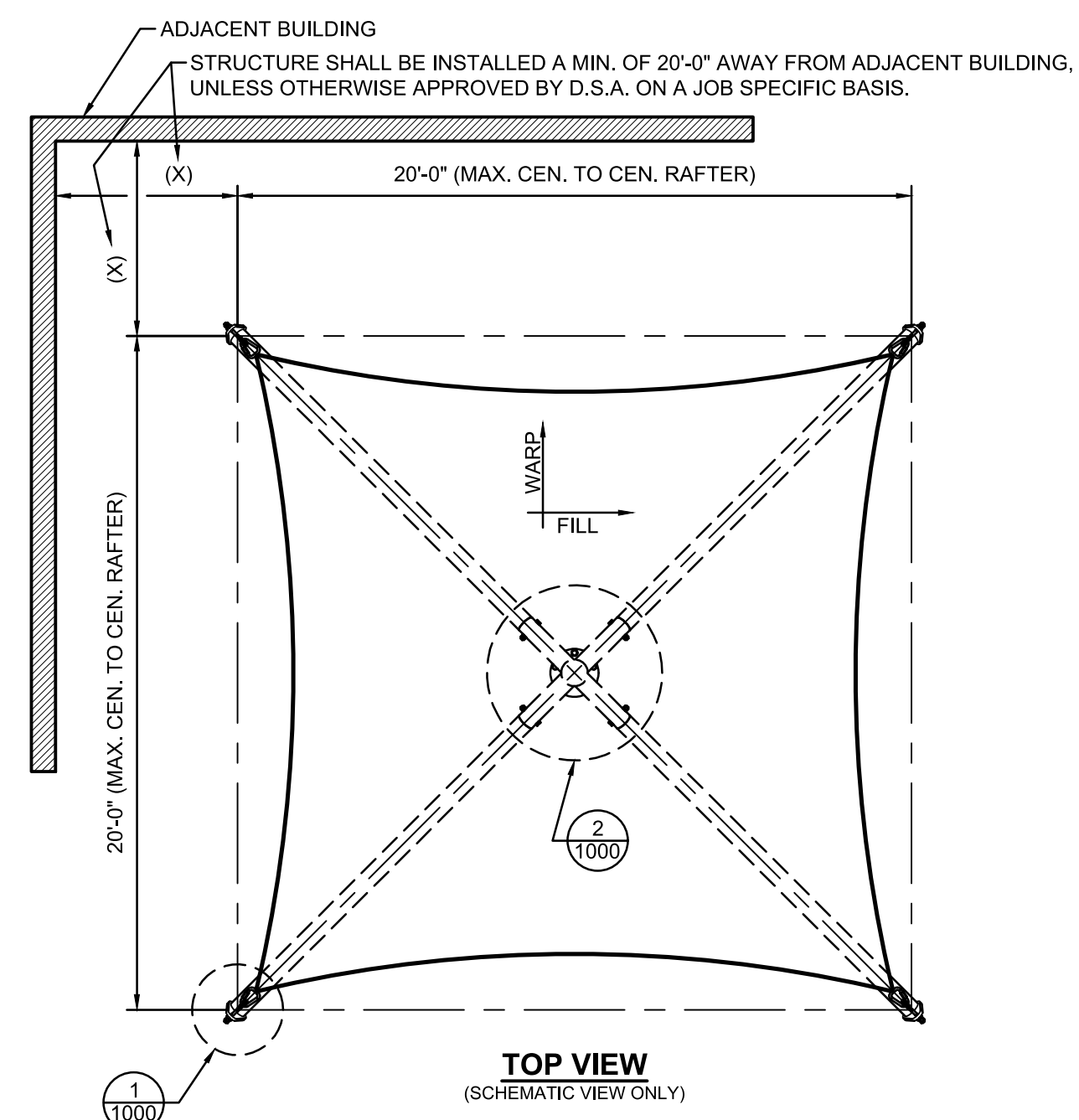
DRILLED PIER FOOTING-PH
(EMBEDDED, PH)
(USE FOR NON-CONSTRAINED CASES)



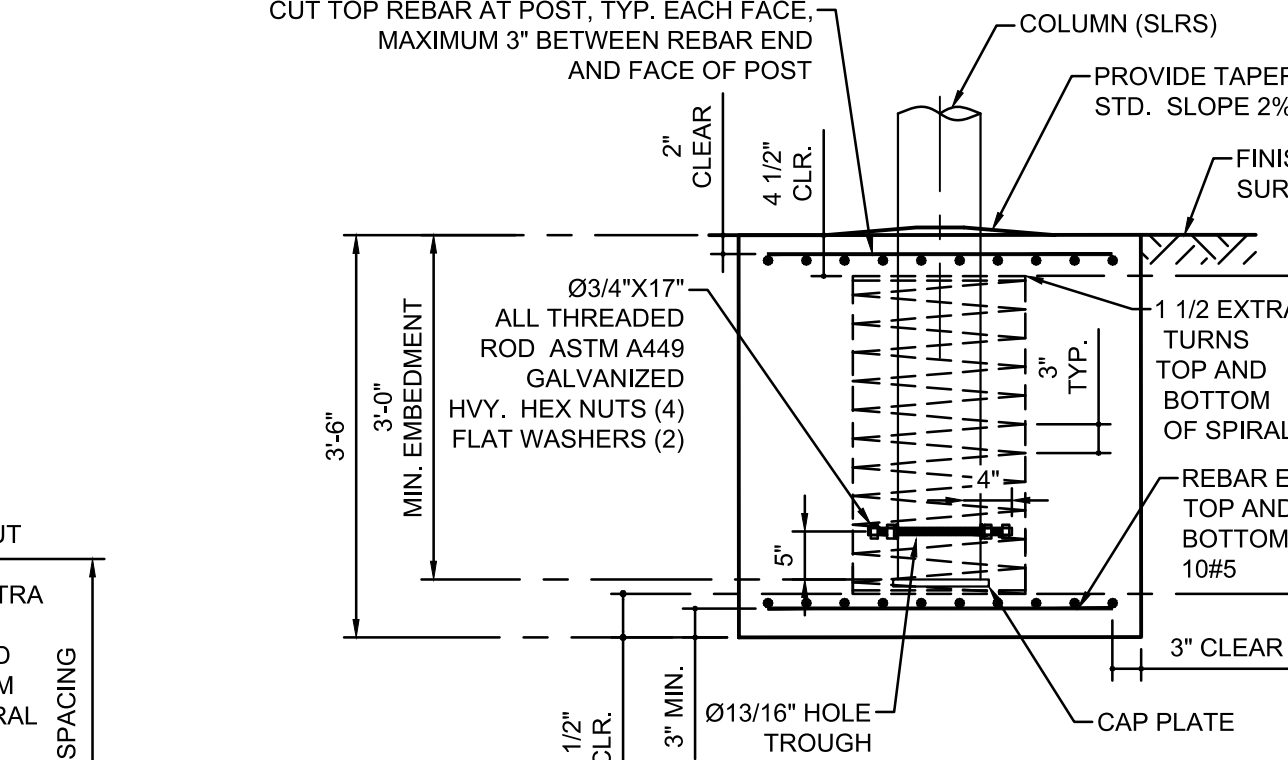
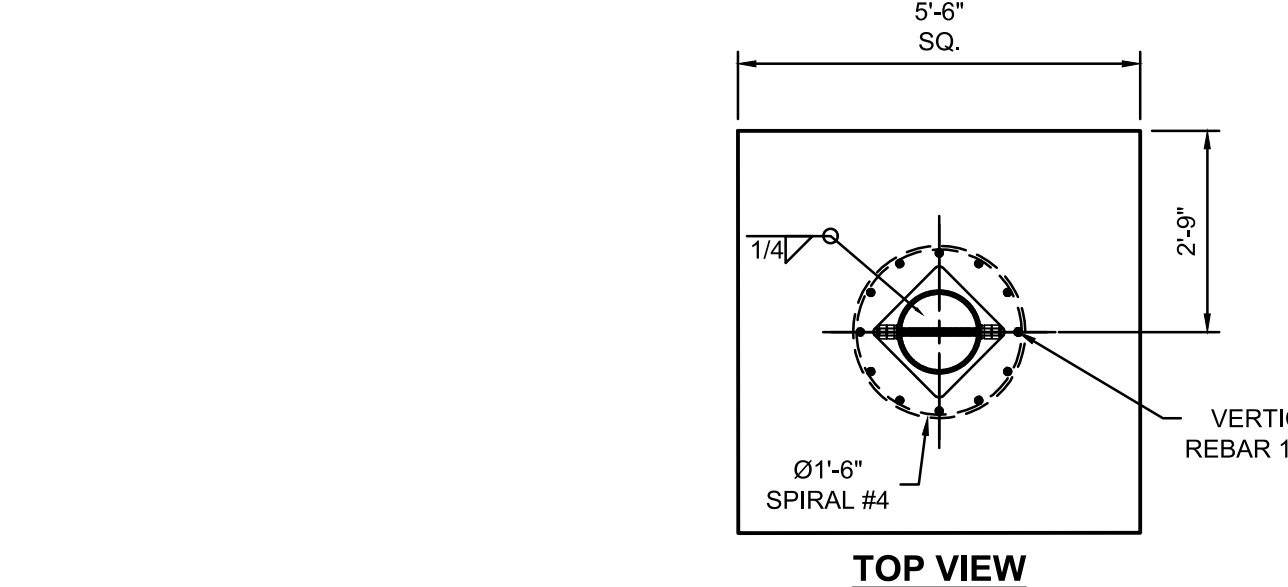
VIEW C-C
REFER TO VIEW B-B



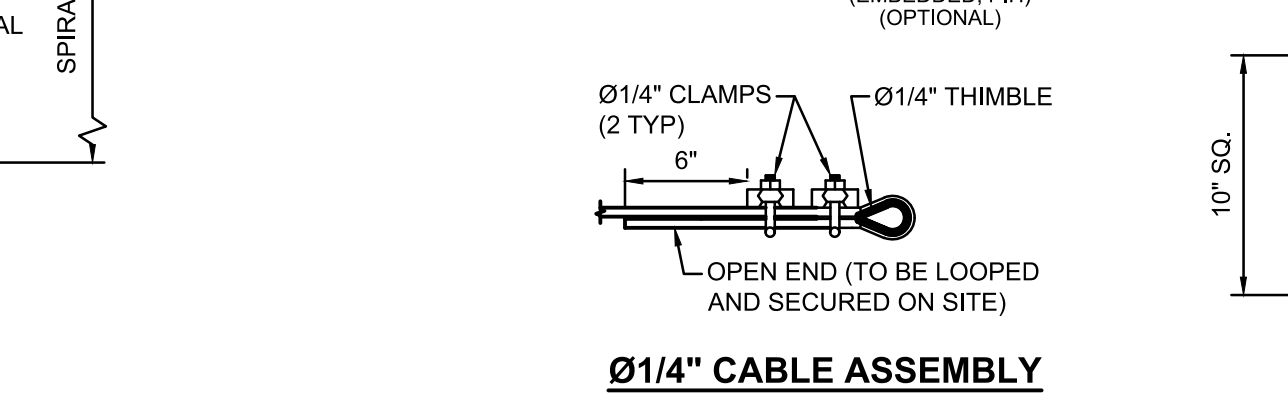
DRILLED PIER FOOTING-RBP
(RECESSED BASE PLATE, RBP)
(OPTIONAL)



FRONT & SIDE VIEW
(SCHEMATIC VIEW ONLY)



ALTERNATE SPREAD FOOTING
(EMBEDDED, PH)
(OPTIONAL)

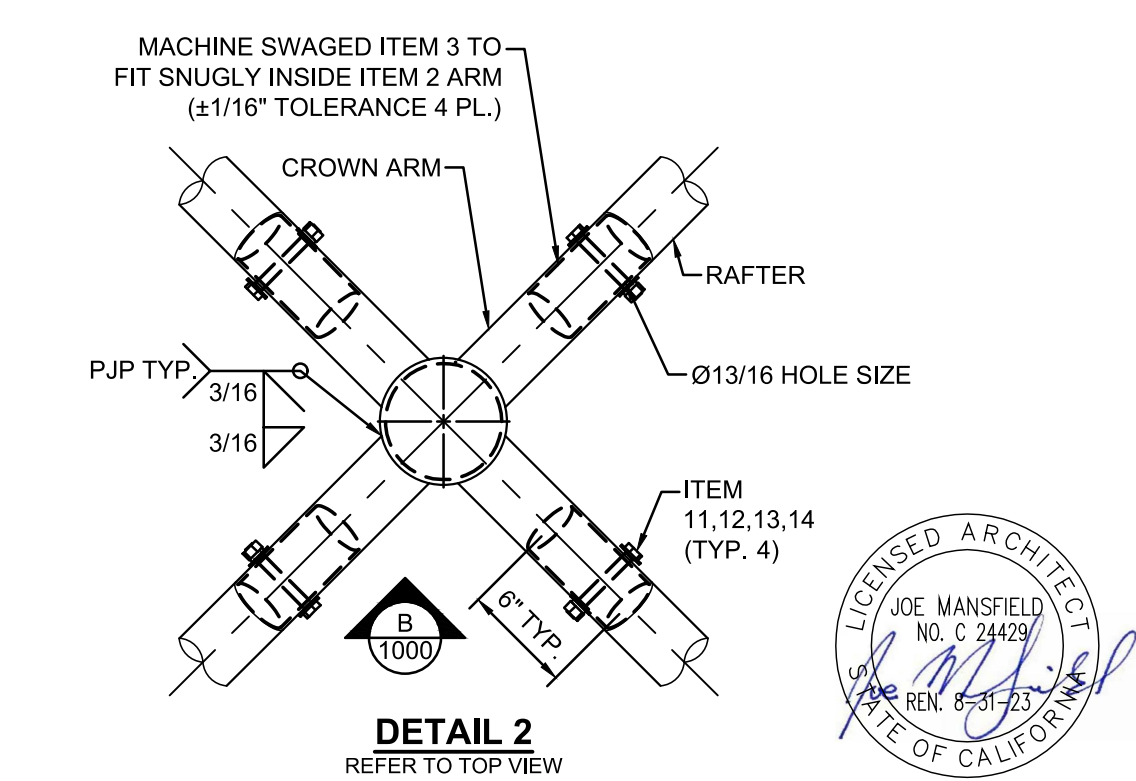


Ø1/4" CABLE ASSEMBLY
(TYPICAL)

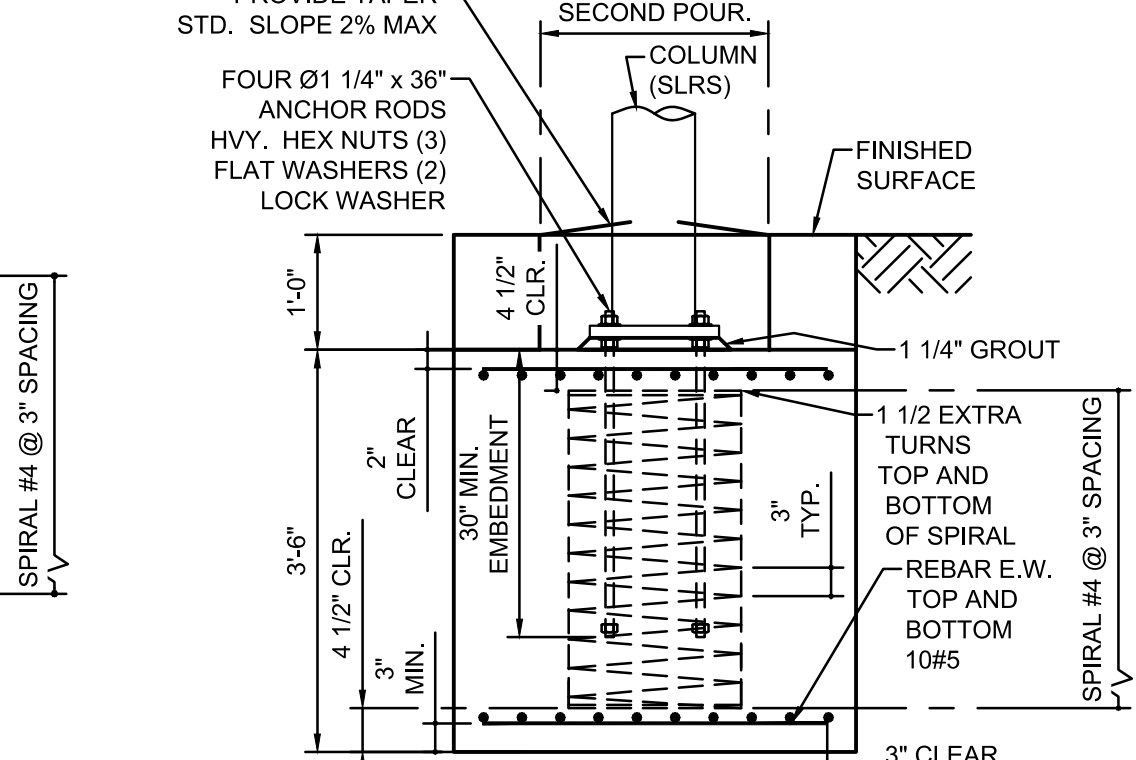
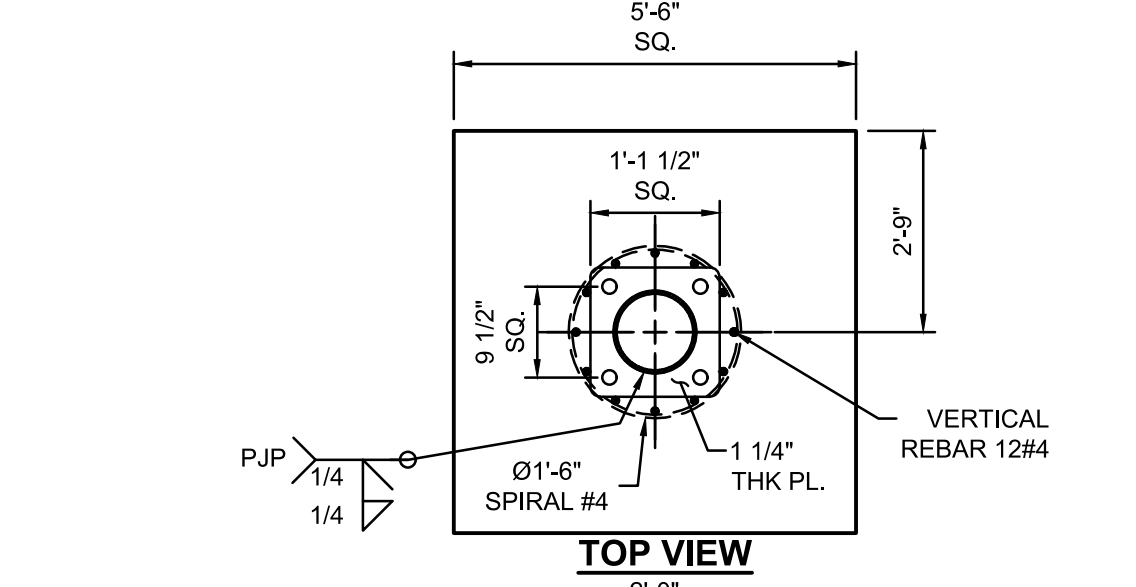
LIST OF MATERIALS			
ITEM	QTY	DESCRIPTION	MATERIAL
1	1	COLUMN	HSS 8.625x0.322
2	1	CROWN	HSS 8.625x0.322
3	4	RAFTER	HSS 5.563x0.258
4	1	FABRIC TOP	FR COLOURSHADE Z25
5	4	Ø1/4" CABLE	GALVANIZED STEEL
6	16	Ø1/4" CABLE CLAMP	GALVANIZED
7	6	Ø1"-8NC x 4" HEX BOLT	ASTM F3125 GRADE A325, GALVANIZED
8	6	Ø1"-8NC HEX NUT	ASTM A563 GALVANIZED
9	6	Ø1" SPLIT LOCK WASHER	ASTM F436 GALVANIZED
10	12	Ø1" FLAT WASHER	ASTM F436 GALVANIZED
11	4	Ø3/4"-10NC x 7" HEX BOLT	ASTM F3125 GRADE A325, GALVANIZED
12	4	Ø3/4"-10NC HEX NUT	ASTM A563 GALVANIZED
13	4	Ø3/4" SPLIT LOCK WASHER	ASTM F436 GALVANIZED
14	8	Ø3/4" FLAT WASHER	ASTM F436 GALVANIZED
15	4	3/4" x 6" JAW END	GALVANIZED
16	4	3/4" FLAT WASHER	GALVANIZED
17	4	3/4"-10NC HEX NUT	GALVANIZED
18	4	3/4"-10NC JAM NUT	GALVANIZED
19	4	3/4" SPHERICAL WASHER+CUP	GALVANIZED
20	4	5/8" QUICK LINK	ZINC PLATED
21	8	Ø1/4" THIMBLE	GALVANIZED

CODE ANALYSIS					
BUILDING	OCCUPANCY	CONST. TYPE	AREA (SQ. FT.)	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
SHADE STRUCTURE					

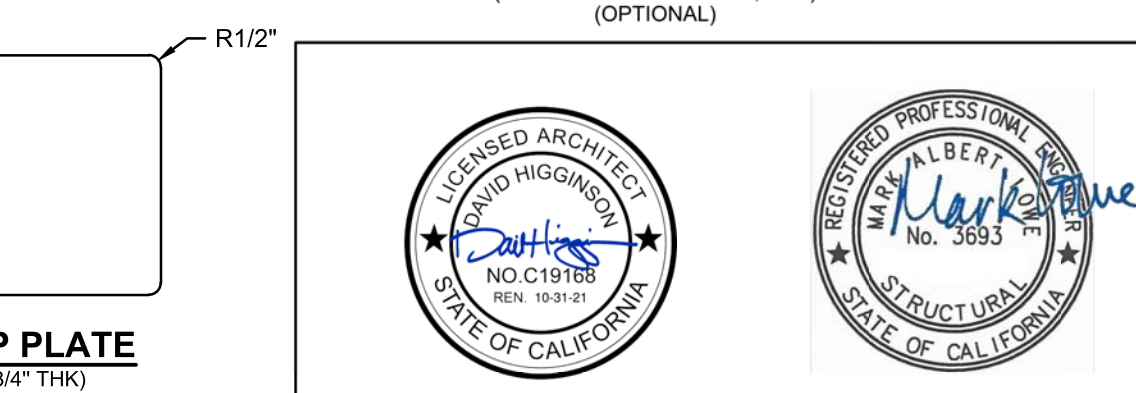
MAXIMUM OCCUPANT LOAD (PER CBC 2019 TABLE 1604A.5)
-K-12: 250 PERSONS
-PUBLIC ASSEMBLY: 300 PERSONS
-EDUCATIONAL OCCUPANCIES ABOVE 12TH GRADE: 500 PERSONS



DETAIL 2
REFER TO TOP VIEW



ALTERNATE SPREAD FOOTING
(RECESSED BASE PLATE, RBP)
(OPTIONAL)



CAP PLATE
(3/4" THK)
(BOTTOM OF PH COLUMNS)

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



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

CERTIFICATIONS:

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

CUSTOMER:

Fallbrook Union Elementary
School District

PROJECT NAME:

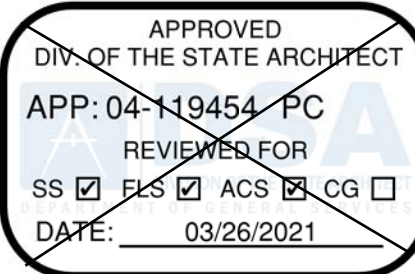
La Paloma Elementary

LOCATION:

300 Heald Lane
Fallbrook, CA 92028

MODEL NUMBER:

DSA1032020-19



STRUCTURE TYPE:

SINGLE POST PYRAMID
DSA

SIZE: MAXIMUM

20' x 20 x 12'e MAX.

SCALE : NONE

DRAWING SIZE: D

PRE-CHECK (PC)
DOCUMENT

Code : 2019 CBC

A separate project application for construction is required.

Eng. By : JO 08/15/20

Design By : MP 08/15/20

Approved By : JO 08/15/20

DRAWING DESCRIPTION:

PRODUCT INFORMATION

DWG. DSA1032020-19

SHEET 16.1-1000

REV. NC

