## CODE SUMMARY & REGULATIONS

AS A FACILITY WHICH COMES UNDER THE APPROVAL AND AUTHORITY OF THE DIVISION OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES (DSA), THIS PROJECT IS SUBJECT TO DRAWING AND JOB SITE REVIEW BY A REPRESENTATIVE OF DSA.

- ACCORDANCE WITH SECTION 4-331(B), PART 1, TITLE 24

NON-COMPLYING CONSTRUCTION FOR ALTERATION PROJECTS, STATEMENTS SIMILAR TO THE ONE NOTED IN SECTION

THE INTENT OF THE DRAWINGS AND PROJECT MANUAL IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. UPON DISCOVERY OF NON-COMPLYING EXISTING CONDITIONS NOT ADDRESSED BY THE CONTRACT DOCUMENTS AND AFFECTING

# SOLANO COMMUNITY COLLEGE DISTRICT

4000 Suisun Valley Road, Fairfield, California 94534 (T) 707.864.7000, www.solano.edu

# LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE INSTITUTE

# SOLANO COMMUNITY COLLEGE FAIRFIELD CAMPUS

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THE NECESSARY REMEDIAL SLOPE OF WORK SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER, CLIENT, ARCHITECT AND DSA BEFORE PROCEEDING WITH THE WORK.		4000 3013	un vaney Road, Fairneid, Camo	71111a 34334 (1) 707.804.7000, V	vww.solalio.edu
GOVERNING CODES	CONSULTANTS				SCOPE OF WORK
*2013 CALIFORNIA BUILDING STANDARD, TITLE 24, PART 1  *2013 CALIFORNIA BUILDING CODE, TITLE 24, PART 2  *2013 CALIFORNIA ELECTRICAL CODE, TITLE 24, PART 3  *2013 CALIFORNIA MECHANICAL CODE, TITLE 24, PART 4  *2013 CALIFORNIA PLUMBING CODE, TITLE 24, PART 5  *2013 CALIFORNIA ENERGY CODE, TITLE 24, PART 6  *2013 CALIFORNIA FIRE CODE, TITLE 24, PART 9  *2013 CALIFORNIA EXISTING BUILDING CODE, TITLE 24, PART 10  *2013 CALIFORNIA GREEN BUILDING STANDARD, TITLE 24, PART 11  *2013 CALIFORNIA BUILDING STANDARDS, TITLE 24, PART 12  *2013 NFPA 13-13 AUTOMATIC SPRINKLER SYSTEMS, WITH 2013 CBC AMENDMENTS	STRUCTURAL ENGINEER:	CIVIL ENGINEER:  CSW   ST-2 45 LEVERONI COURT NOVATO, CA 94949 (T) 415.883.9850 (F) 415.883.9385 WWW.CSWST2.COM	ELECTRICAL & FIRE ALARM ENGINEER:	LOW VOLTAGE:	SCOPE OF WORK INCLUDES AND IS NOT LIMITED TO THE FOLLOWING:  1. BASE BID: ALL INFRASTRUCTURE AS IDENTIFIED IN THE DRAWINGS INCLUDING AND NOT LIMITED TO DEMOLITION, GRADING, PAVING (AC AND AB), SITE UTILITIES, ACCESSIBLE PATHWAYS, AND CONCRETE PAVEMENT UNDER FARMERS MARKET STAND  2. ADD ALTERNATE #1: FARMERS MARKET SHADE STRUCTURE AS SHOWN IN ATTACHED DSA PC DRAWINGS PROVIDED BY MANUFACTURER. BIDDERS ARE NOT ALLOWED TO SUBSTITUTE THIS PRODUCT. SCOPE OF WORK INCLUDES FOUNDATION.  3. ADD ALTERNATE #2: CABINETRY AND COUNTER TOPS FOR THE FARMER'S MARKET STAND ALONG WITH HOOK UP OF ALL UTILITIES  4. ADD ALTERNATE #3: GREENHOUSE AS SHOWN IN DRAWINGS. ALL SUBSTITUTIONS OF THE RECOMMENDED PRODUCT MUST BE SUBMITTED FOR APPROVAL BY THE DISTRICT AND ITS REPRESENTATIVES.
*2013 NFPA 14-13 INSTALLATION OF STANDPIPE, PRIVATE HYDRANT AND HOSE SYSTEMS, WITH 2013 CBC AMENDMENTS  *2013 NFPA 72-13 NATIONAL FIRE ALARM CODE, WITH 2013 CBC AMENDMENTS  *2013 NFPA 20-13 INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION  *2013 NFPA 22-13 WATER TANKS FOR PRIVATE FIRE PROTECTION  *2013 NFPA 24-13 INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES, WITH 2013 CBC AMENDMENTS  *2008 NFPA 25 INSPECTION, TESTING, MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS  *2013 NFPA 110-13 EMERGENCY AND STANDBY POWER SYSTEMS  *2007 ICC 300-12 STANDARDS ON BLEACHERS, FOLDING TELESCOPIC SEATING & GRANDSTANDS  *2013 NFPA 17-13 DRY CHEMICAL EXTINGUISHING SYSTEMS  *2013 NFPA 17A-13 WET CHEMICAL EXTINGUISHING SYSTEMS  *2008 NFPA 2001-12 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	MECHANICAL ENGINEER:	PLUMBING ENGINEER:	FIRE SUPPRESSION ENGINEER:	LANDSCAPE ENGINEER:	
*ASTM STANDARDS CHANGES (EXAMPLE: ASTM E648-04 STANDARD TEST METHOD FOR CRITICAL RADIANT FLUX OF FLOOR) *UL STANDARD CHANGES (EXAMPLE: 2005 UL 38 MANUAL OPERATING SIGNAL BOXES) *TITLE 24-12 CCR STATE FIRE MARSHAL REGULATIONS *2003 UL 464-03 AUDIBLE SIGNAL APPLIANCES *1999 UL 521-99 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS *2002 UL 1971 SIGNALING DEVICES FOR HEARING IMPAIRED *ADA STANDARDS FOR ACCESSIBLE DESIGN: 2010 ADA ACCESSIBILITY GUIDELINES (ADAAG) 28, PART 36 APPENDIX A *ADA STANDARDS FOR ACCESSIBLE DESIGN-CODE OF FEDERAL REGULATIONS (INCLUDING AMENDMENTS) * AISC MANUAL OF STEEL CONSTRUCTION, 14TH EDITION *2005 REVISED NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION *ACI 318-11 CODE AND COMMENTARY	WATER INTRUSION CONSULTANT:	ENERGY CONSULTANT:	ACOUSTICAL ENGINEER:	CONSTRUCTION MANAGEMENT:  KITCHELL 360 CAMPUS DRIVE FAIRFIELD, CA 94534 (T) 707.864.7000 WWW.KITCHELL.COM	
EQUIPMENT ANCHORAGE NOTES	SYMBOLS		ABBREVIATIONS		PROJECT LOCATION
ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER DETAILS ON DXA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN 2013 CBC, SECTIONS 1615A.1.12 THROUGH 1615A.1.22 AND ASCE7-05 CHAPTER 6 AND 13:  1. ALL PERMABRENT EQUIPMENT AND COMPONENTS 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, CAS OR WATER. 3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.  THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL BY ELECTRICIONS PROVIDED BETWEEN THE COMPONENTS AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT:  1. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENTS.  2. 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 HOUNG FROM A WALL.  FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURE ALL ENGINEER. THE PROJECT INSPECTOR SHALL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.  PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE7-05, SECTION 13 AS DEFINED IN ASCE7-05 SECTION 13.6 AS, 13.6 7 AND 2013 CRC SECTIONS 165-12.2, 20. BRACED AND ASCE7-05 SECTION 13.6 AS, 13.6 7 AND 2013 CRC SECTIONS 165-12.2, 20. BRACED AND ASSOCIATED FROM THE STRUCTURE HAS BEDETIALED ON APPROVED FOR THE STRUCTURE HAS BEDETIALED ON A PROVED FOR THE S	COLUMN GRID LINE Numbers horizontal Letters vertical  ROOM ID Room name & number  C.13 DOOR SYMBOL Door number  Window number  CT-1 FINISH SYMBOL Finish mat'l identification Section identification Sheet number  DETAIL REFERENCE Detail information Sheet number  DETAIL REFERENCE Detail information Sheet number  A SOJO B INTERIOR ELEVATIONS Detail information Sheet number / elevation  REVISION Addendum letter Supplemental instruction revision cloud  WORK POINT Target  MATCH LINE Target  1 ARCHITECTURAL WALL PANEL TYPE SYMBOL  SHEET NOTE SYMBOL ELEVATION TAG	A.B. ANCHOR BOLT A.D. AREA DRAIN ADD'L ADDITIONAL ADJ. HT. ADJUSTED HEIGHT A.F.F ABOVE FINISH FLOOR AC ASPHALT CONCRETE AGG. AGGREGATE ALIT. ALTERNATE ALUM. ALUMINUM AMP AMPERAGE APA AMERICAN PLYWOOD ASSOCIATION APPROX. APPROXIMATE A.S.L. ABOVE SEA LEVEL ASTM AMERICAN SOCIETY OF TESTING MATE B.F.F. BELOW FINISH FLOOR BLK'G/BLKNG BLOCKING BM BEAM BTM./BOTT. BOTTOM BTWN BETWEEN B.U.R BUILT-UP ROOFING CALCS. CALCULATIONS CEM. PLAST. CEMENT PLASTER C.I. CAST IRON C.J. CONSTRUCTION JOINT C.L. CENTER LINE CLG. CEILING C.M.U. CONCRETE MASONRY UNIT COL. COLUMN CONC. CONCRETE CONTR. CONTRACTOR CONTR. CONTRACTOR CSMT CASEMENT DBL. DOUBLE DBL. PL. DOUBLE PLATE DET. DETAIL DEG. DEGREE D.F. DOUGLAS FIR OR DRINKING FOUNTAIN DIA. DIAPHRAGM DN DOWN DS DOWNSPOUT DW DISHWASHER (E) EXISTING EA. EACH ELECT. ELECTRICAL ELECT. ELECT	F.F. FINISHED FLOOR F.G. FUEL GAS F.J./ FLR.JST. FLOOR JOIST FLASH'G FLASHING FLR. FLOOR FLUOR. FLUORESCENT F.O.S. FACE OF STUD FR. FRENCH FTG. FOOTING GA. GAUGE GALV. GALVANIZED GFCI GROUND FAULT CIRCUIT INTERRU GIR GIRDER GLU-LAM GLUE LAMINATED G.S.M. GALVANIZED SHEET METAL GYP.BD. GYPSUM BOARD H.B. HOSE BIBB HD HOLD DOWN H.H. HEAD HEIGHT HMF HOLLOW METAL FRAME HORIZ. HORIZONTAL HR. HOUR INFO. INFORMATION INSUL INSULATION OR INSULATED JST. JOIST LB. OR # POUND OR NUMBER LEV./ LVL LEVEL LT. LIGHT LTWT. LIGHTWEIGHT MAX. MAXIMUM MBRS MEMBERS M.D.F. MEDIUM DENSITY FIBERBOARD MFR. MANUFACTURER (N) NEW NAT. NATIONAL M.SUITE/ M.S. MASTER SUITE MIN. MINIMUM N.I.C. NOT IN CONTRACT N.T.S. NOT TO SCALE O.C. ON CENTER O.H./ OPP. OPPOSITE HAND P.B. PUSH BUTTON PERF. PERFORATED PL. PLATE PL.HT. PLAT	RM. R.W./RWD REDWOOD SAF SELF ADHESIVE FLASHING S.C. SOLID CORE S.C.D. SEE CIVIL DRAWINGS SCHED. SCHEDULE SD SMOKE DETECTOR S.E.D. SEE ELECTRICAL DRAWINGS S.F./ SQ.FT. SQUARE FOOT SHR. SHEAR SIMI. SIMILAR SIMI.SIMILAR S.M.D. SEE MECHANICAL DRAWINGS SQ.INI. SQUARE INCH S.S.D. SEE STRUCTURAL DRAWINGS ST STRAP STOR. STORAGE STRI STRUCTURAL 1 S.W. SHEAR WALL SQ. SWITCH SYM. SYMBOL S3S/S4S SMOOTH 3 OR 4 SIDES TEMP./T. TEMPERED T.H. THRESHOLD T./ THERM T.O.C. TOP OF CURB T.O.C. TOP OF CURB T.O.F. TOP OF FLATE T.O.S. TOP OF SLAB T.O.P. TOP OF WALL T/P /T.OF PL TOP OF PLATE T.P.O. THERMOPLASTIC POLYOLEFIN TRNSM. TRANSOM T&G TONGUE & GROOVE TYP. TYPICAL U.N.O. UNLESS NOTED OTHERWISE UTL./ UTIL. WALL W.P. WEATHERPROOF WP.SCRD. WEEP SCREED W.W.F. WELDED WIRE FABRIC W.W.M. WASHER/ DRYER	4000 Suisun Valley Road, Fairfield, California 94534 (1) 707.864.7000, www.solano.edu

ARCHITECT

333 1ST STREET, SUITE C SAN FRANCISCO, CA 94105 303 POTRERO STREET, SUITE 7B

SANTA CRUZ, CA 95060



CONSULTANT



LOUISE WILBOURN YARBROUGH HORTICULTURE & Z PLANT SCIENCE

INSTITUTE

4000 Suisun Valley Rd, Fairfield, CA 94534			
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REF	DESCRIPTION	D	
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PROJECT CODE: START DATE: DRAWN BY: CHECKED BY: SHEET NAME:

**COVER SHEET** 

DSA APPROVAL STAMP:

# SHEET LIST GENERAL G0.1 COVER SHEET G0.2 SHEET LIST G0.3 CAMPUS SITE MAP CIVIL DRAWINGS C2 GRADING & DRAINAGE PLAN C3 UTILITY PLAN ARCHITECTURAL DRAWINGS A1.1 SITE PLAN - FIRE MARSHAL REVIEW A1.2 SITE PLAN - ACCESSIBILITY PLAN A1.3 ENLARGED SITE PLAN A1.4 ENLARGED SITE PLAN A1.5 ENLARGED SITE PLAN A1.6 ENLARGED SITE PLAN A1.7 ENLARGED SITE PLAN A1.8 SITE DETAILS A1.9 SITE FENCING DETAILS A2.3A GREENHOUSE PLAN (BID ALTERNATE) A2.5A FARMERS MARKET STAND E0.1A ELECTRICAL SYMBOLS LIST, SCHEDULE & NOTES E1.1A POWER SITE PLAN E1.2A SIGNAL SITE PLAN E1.3A FIRE ALARM SITE PLAN E4.1A SIGNAL FLOOR PLANS GREENHOUSE BY CONLEYS OR EQUAL (BID ALTERNATE) FM-01 PLAN CONFIGURATION FM-02 DETAIL SHEET FARMERS MARKET STAND BY AMERICANA SHELTERS WITH DSA PC 02-113840 (NO SUBSTITUTION ALLOWED) G1 DESIGN NOTES NT30.0 DESIGN NOTES NT30.1 PLANS AND ELEVATIONS NT 30.2 SECTIONS AND DETAILS

ARCHITECT

ARCHITECTURE + PLANNIN G 333 1ST STREET, SUITE C SAN FRANCISCO, CA 94105 303 POTRERO STREET, SUITE 7B SANTA CRUZ, CA 95060

TEL: 800.725.0571



CONSULTANT

PROFESSIONAL STAMP:



PROJECT:

LOUISE WILBOURN III YARBROUGH HORTICULTURE & PLANT SCIENCE
INSTITUTE

4000 Suisun Valley Rd,
Fairfield, CA 94534

REVISIONS

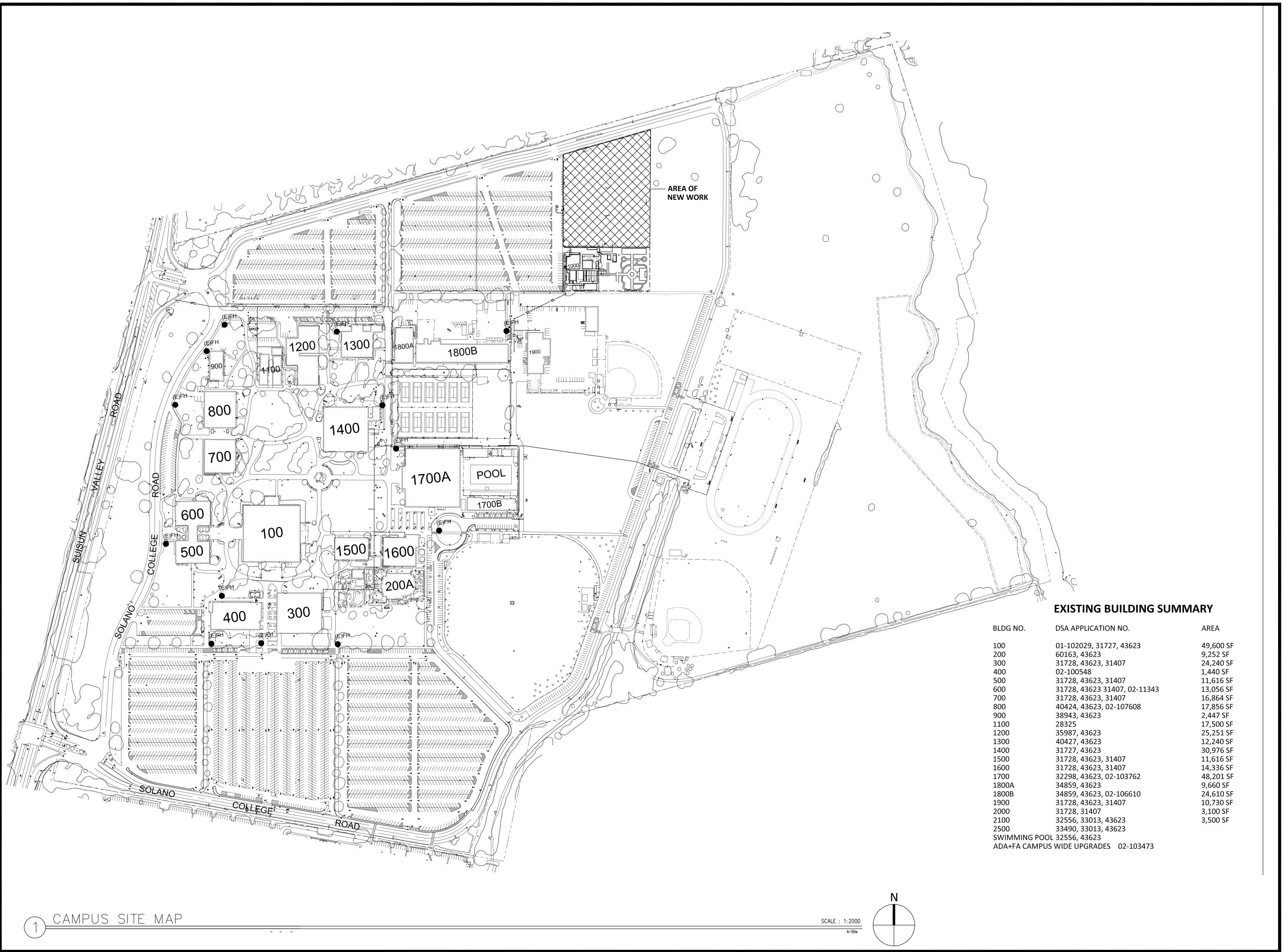
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LOUISE WILBOURN YARBROUGH HORTICULTURE & Z

INSTITUTE

PLANT SCIENCE

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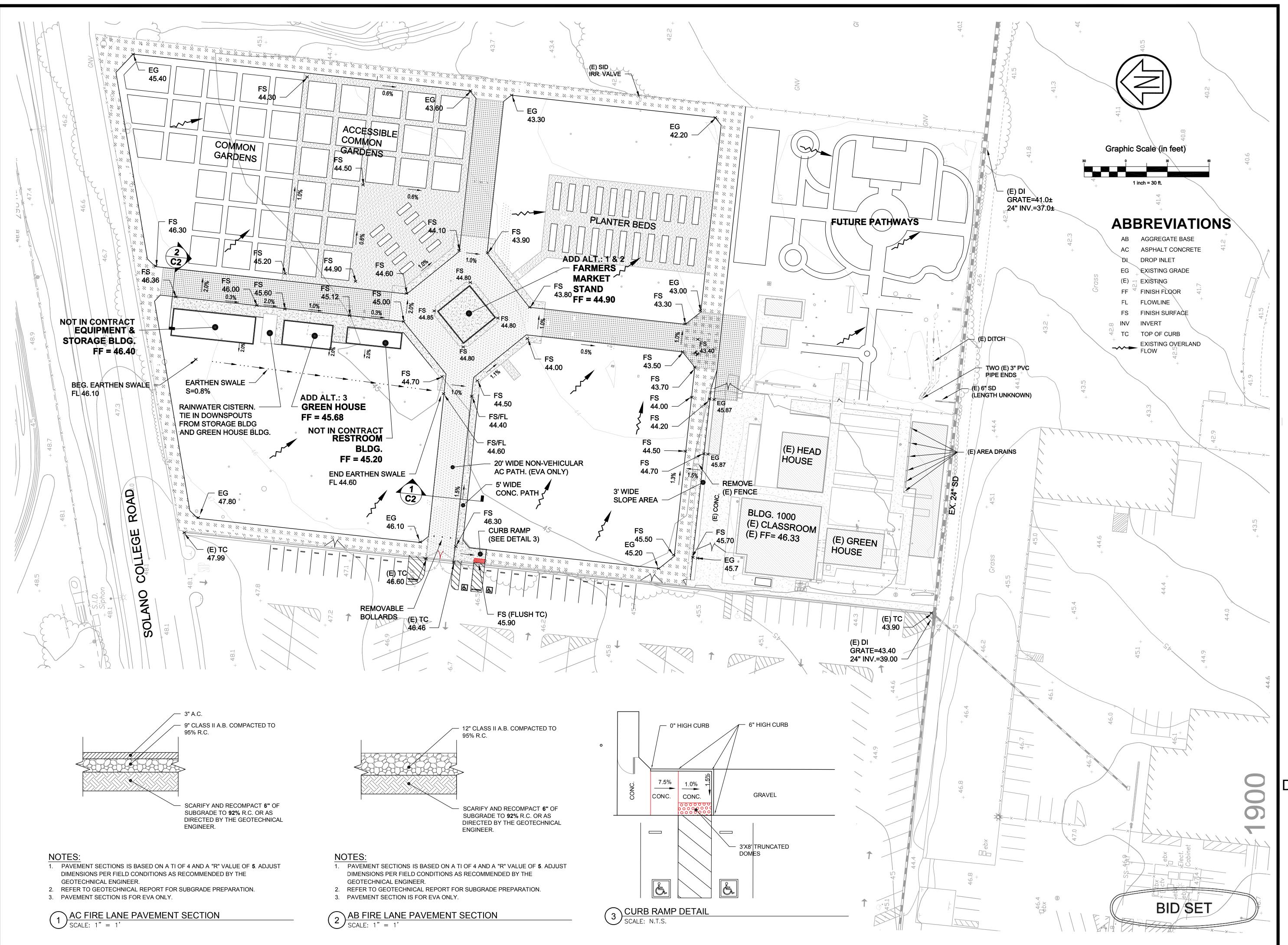
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CAMPUS SITE MAP

DSA APPROVAL STAMP:

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OWNER



CONSULTANT

CSW ST2

CSW/Stuber-Stroeh

Engineering Group, Inc. 45 Leveroni Court tel: 415.883.9850 Novato, CA 94949 fax: 415.883.9835

Civil & Structural Engineers Surveying & Mapping **Environmental Planning** Land Planning

Construction Management

PROFESSIONAL

PROJECT:

LOUISE WILBOURN YARBROUGH HORTICULTURE & **PLANT SCIENCE INSTITUTE** 

	Fairfield, CA 94534				
REVISI	REVISIONS				
REF	DESCRIPTION	DATE			
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D	VE REVISIONS	03/23/16			
С	DSA BACKCHECK	03/07/16			
В					
Α	CLIENT SUBMITTAL	12/01/15			
PROJE	CT CODF:	SCCD-04			

PROJECT CODE: START DATE:

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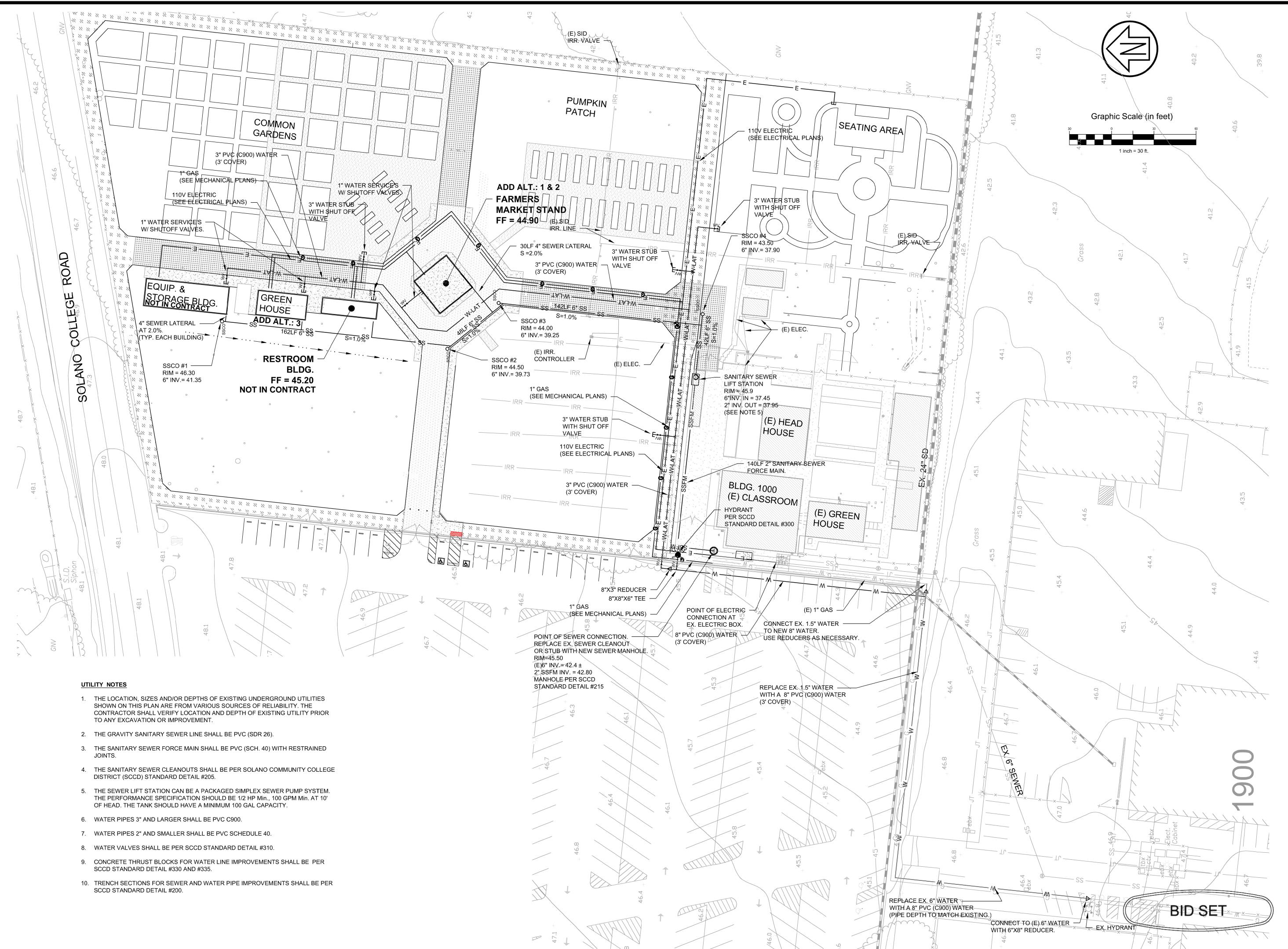
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**GRADING &** DRAINAGE PLAN

DSA APPROVAL STAMP:

SHEET NUMBER:

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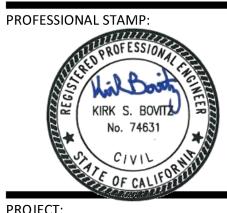
CONSULTANT

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45 Leveroni Court tel: 415.883.9850 Novato, CA 94949 fax: 415.883.9835

Civil & Structural Engineers Surveying & Mapping Environmental Planning Land Planning Construction Management



LOUISE WILBOURN YARBROUGH HORTICULTURE & PLANT SCIENCE **INSTITUTE** 

4000 Suisun Valley Rd,

REVIS	Fairfield, CA 94534	
REF	DESCRIPTION	DATE
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	VE REVISIONS	03/23/16
С	DSA BACKCHECK	03/07/16
В	DSA SUBMITTAL	03/01/16
Α	CLIENT SUBMITTAL	12/01/15
PROJE	CT CODE:	SCCD-04
START	DATE:	-

UTILITY PLAN

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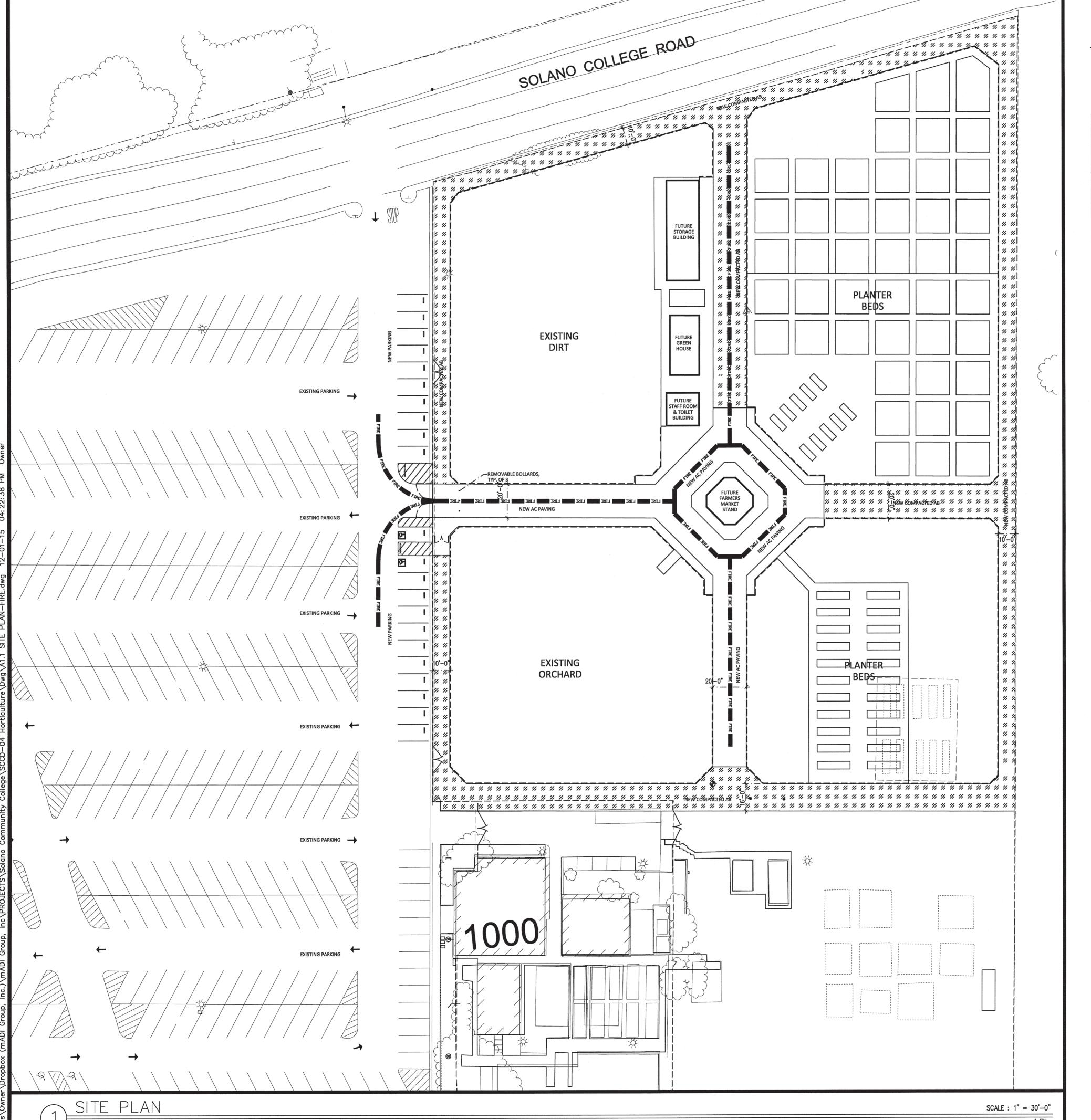
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# **ADSA**

810

# LOCAL FIRE AUTHORITY REVIEW

To facilitate the Division of the State Architect's (DSA) approval of the Fire/Life Safety portion of a project, DSA requires Local Fire Authority (LFA) review of certain elements as identified in this form. Use of this form is mandatory for projects that add square footage to a campus or if any item on this form is relevant to the project. For additional information, see <u>DSA 810 Instructions</u> and <u>DSA Policy 09-01</u>.

Proj	ect Name/School:				
Proj	ect Address:				
LOC	CAL FIRE AUTHORITY (LFA)				
LFA	Agency Name: Cost) elia Fre Protection District				
LFA	Reviewer Name: Ketth Martin Title: Fire C	hi	ed.		
Ema	il: KETHEMOTIN @ Sheglo Wal net Telephone Number: 707-864	-09	168		
	we reviewed and responded to the applicable items for this project as listed below.				
	e: Only sign this form when it is imaged onto the site plan. A loose form is not acceptable to DSA			1 . 1.	
			-	14/1	9
Kev	iew Key: "Y" = Complies with LFA requirements "N" = Not approved (complete Ser "NA" = Not applicable to the project "NR" = LFA elects not to review	CBO	10)		
	Description	Υ	N	NA	
1	Where an elevator does not meet medical emergency service cab size, per the California Building Code (CBC), use of stairways for emergency rescue and patient transport is			×	
2	acceptable.  Access roads, fire lane markings, pavers and gate entrances are in accordance with Title	×		/	ł
3	19, California Code of Regulations and the California Fire Code, Chapter 5. Fire hydrant location and distribution complies with the California Fire Code (or see # 4).	X	┢	_	+
3	Fire hydrant location and distribution complies with NFPA 1142, "Alternate Means." If "NR" is	^	┢		t
	checked, DSA can only approve on-site water storage as an alternate. The signature of the school district official is required to acknowledge the use of alternate means.	×Ω			
4	Signature of School District Official:Da	te:_			_
	Print the School District Official's Name:				
5	The location(s) of the proposed post indicator valve and fire department connection meet the requirements of this jurisdiction.			X	
6	The location(s) of the detector check valve assembly meet the requirements of this jurisdiction.			X	
	Is the project located in a hazard severity zone area? (CBC, Chapter 7A, Section 701A.)	] Ye	25	X N	0
7	Check type if "Yes": Moderate High Very High WIFA  (If one of these boxes is checked, the project design must meet the requirements of Chapter	7A	.)		

DSA 810 (rev 05-12-14) DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES

Page 1 of 1 STATE OF CALIFORNIA

NOTE:

FOR EXTENT AND SCOPE OF GRADING AND PAVING SEE CIVIL AND ARCHITECTURAL DRAWINGS

FIRE TRUCK ACCESS

THE DESIGNATION OF THE FIRE LANE(S) SHALL BE INDICATED PER THE CALIFORNIA VEHICLE CODE SECTION 22500.1(3) BY OUTLINING OR PAINTING THE LANES IN RED, AND IN CONTRASTING COLOR, MARKING THE LANES WITH THE WORDS 'FIRE LANE', WHICH ARE CLEARLY VISIBLE FROM A VEHICLE. MARKED FIRE LANES SHALL BE A MINIMUM OF 20'-0" WIDE.

LEGEND:

\_\_\_\_\_

FIRE TRUCK ACCESS (FIRE LANE)

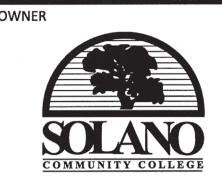
(E)FHR —○+ EXISTING FIRE HYDRANT

ARCHITECT

MADI ARCHITECTURE + PLANNING

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TEL: 800.725.0571



CONSULTANT

PROFESSIONAL STAMP:



PROJECT:

LOUISE WILBOURN
YARBROUGH
HORTICULTURE &
PLANT SCIENCE
INSTITUTE

4000 Suisun Valley Rd

		Fairfield, CA 94534	
	REVISI	ONS	
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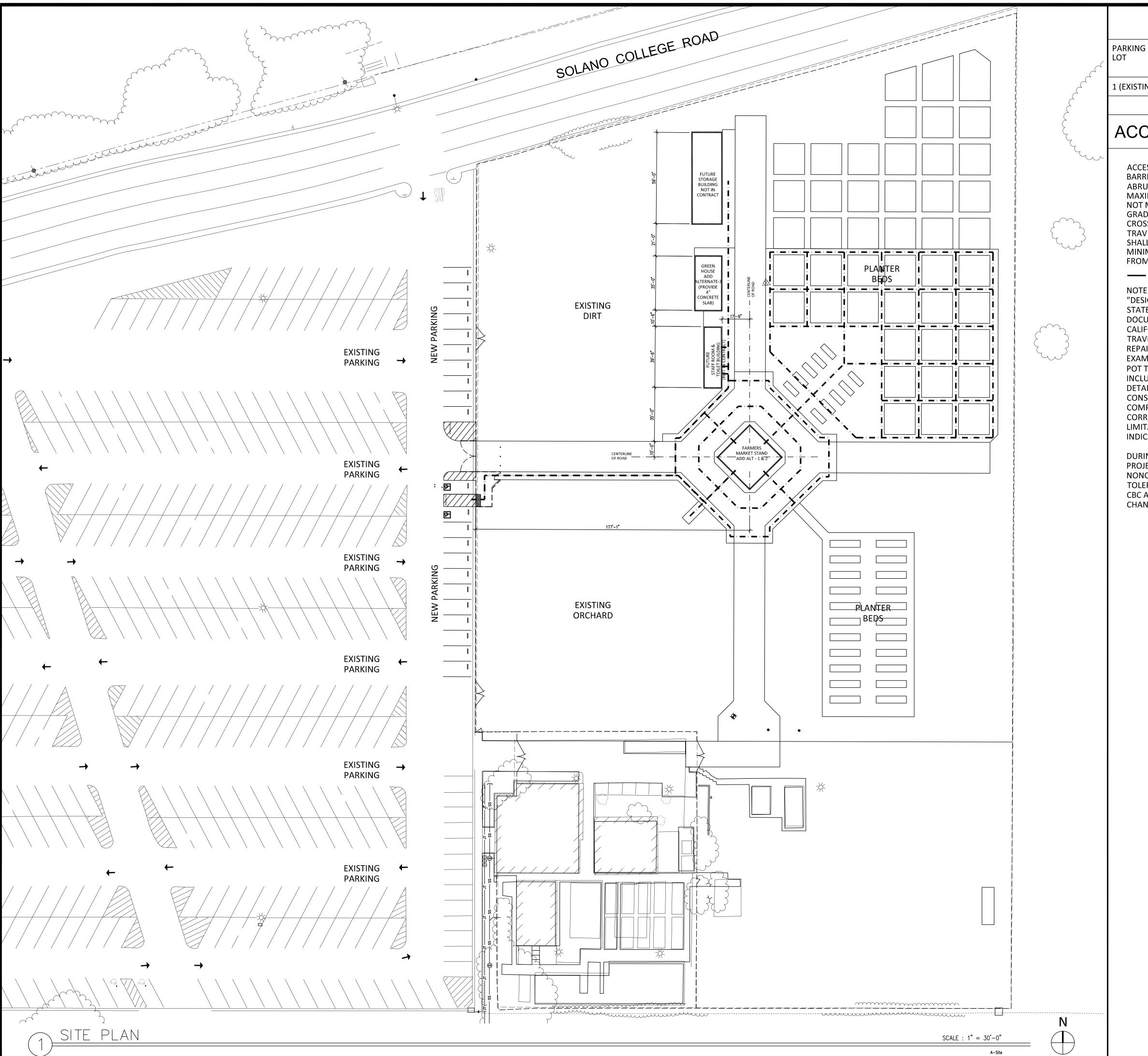
**CHECKED BY:** 

SITE PLAN
FIRE MARSHAL
REVIEW

DSA APPROVAL STAMP:

SHEET NUMBER:

A1.1



# PARKING LOT DATA

PARKING LOT	NON-ACCESSIBLE STALLS	ACCESSIBLE STALLS REQUIRED	ACCESSIBLE STALLS PROVIDED
1 (EXISTING)	30	1 VAN, 1 REG.	1 VAN, 1 REG.

# ACCESSIBLE PATH OF TRAVEL

ACCESSIBLE PATH OF TRAVEL (P.O.T.) AS INDICATED, IS A COMMON, BARRIER-FREE, FIRM AND SMOOTH ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE. PASSING SPACES AT LEAST 60" X 60" ARE LOCATED NOT MORE THAN 200' APART. PARTS OF P.O.T.WITH CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS NOT MORE THAN 400' APART. THE CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE INTHE DIRECTION OT TRAVEL AND IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (POT) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80".

---- ACCESSIBLE PATH OF TRAVEL (P.O.T.)

"DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THIS POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THE THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF CONSTRUCTION CHANGE DOCUMENT."

ARCHITECT



TEL: 800.725.0571



CONSULTANT

PROFESSIONAL STAMP:



PROJECT:

LOUISE WILBOURN YARBROUGH HORTICULTURE & Z PLANT SCIENCE INSTITUTE

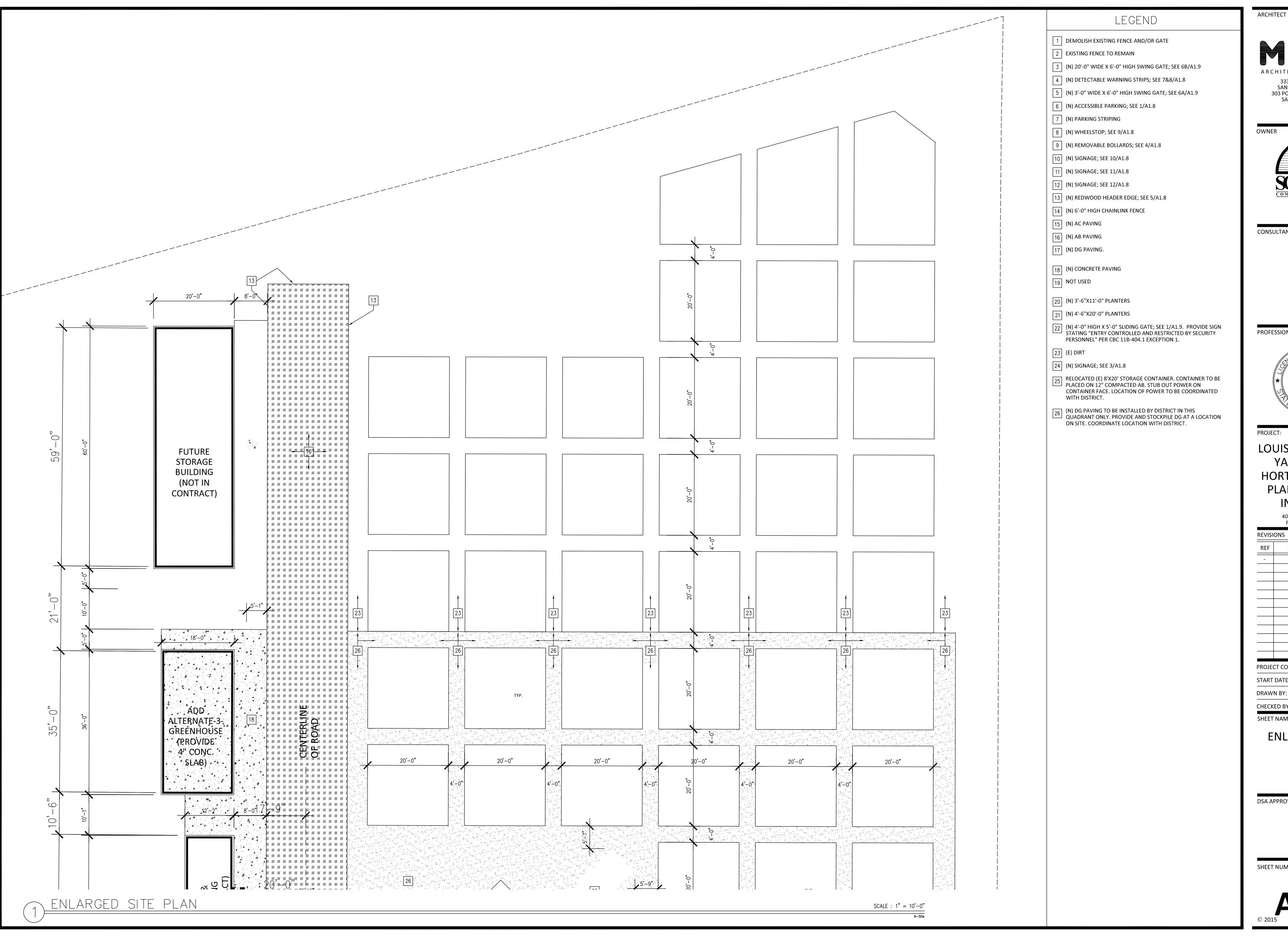
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	4000 Suisun Valley R Fairfield, CA 94534	
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SITE PLAN

ACCESSIBILITY PLAN

DSA APPROVAL STAMP:

SHEET NAME:



333 1ST STREET, SUITE C SAN FRANCISCO, CA 94105 303 POTRERO STREET, SUITE 7B

TEL: 800.725.0571

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CONSULTANT

PROFESSIONAL STAMP:



PROJECT:

LOUISE WILBOURN YARBROUGH HORTICULTURE & Z PLANT SCIENCE **INSTITUTE** 

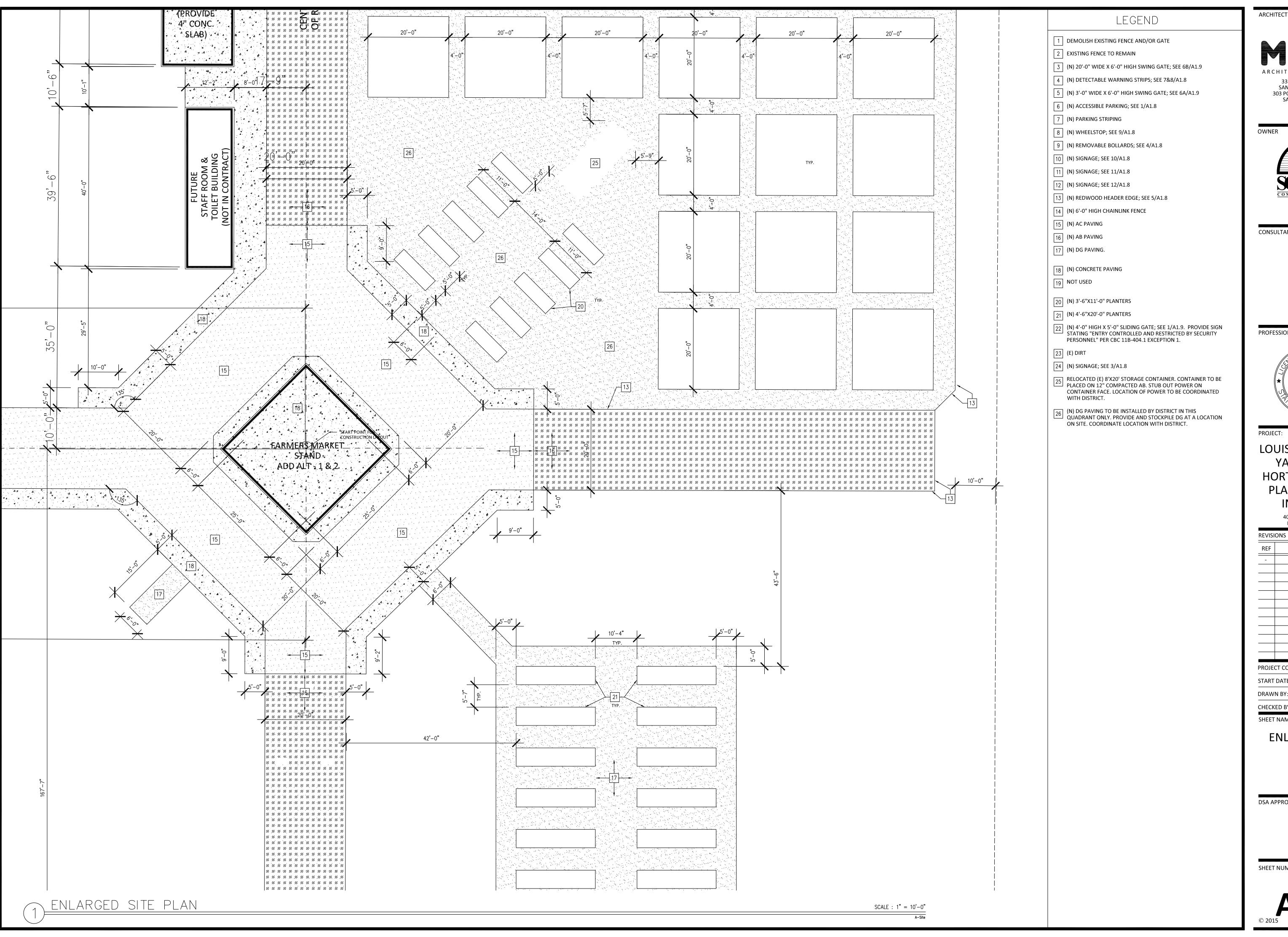
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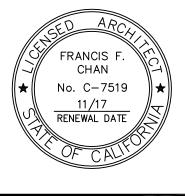
333 1ST STREET, SUITE C SAN FRANCISCO, CA 94105 303 POTRERO STREET, SUITE 7B SANTA CRUZ, CA 95060

TEL: 800.725.0571



CONSULTANT

PROFESSIONAL STAMP:



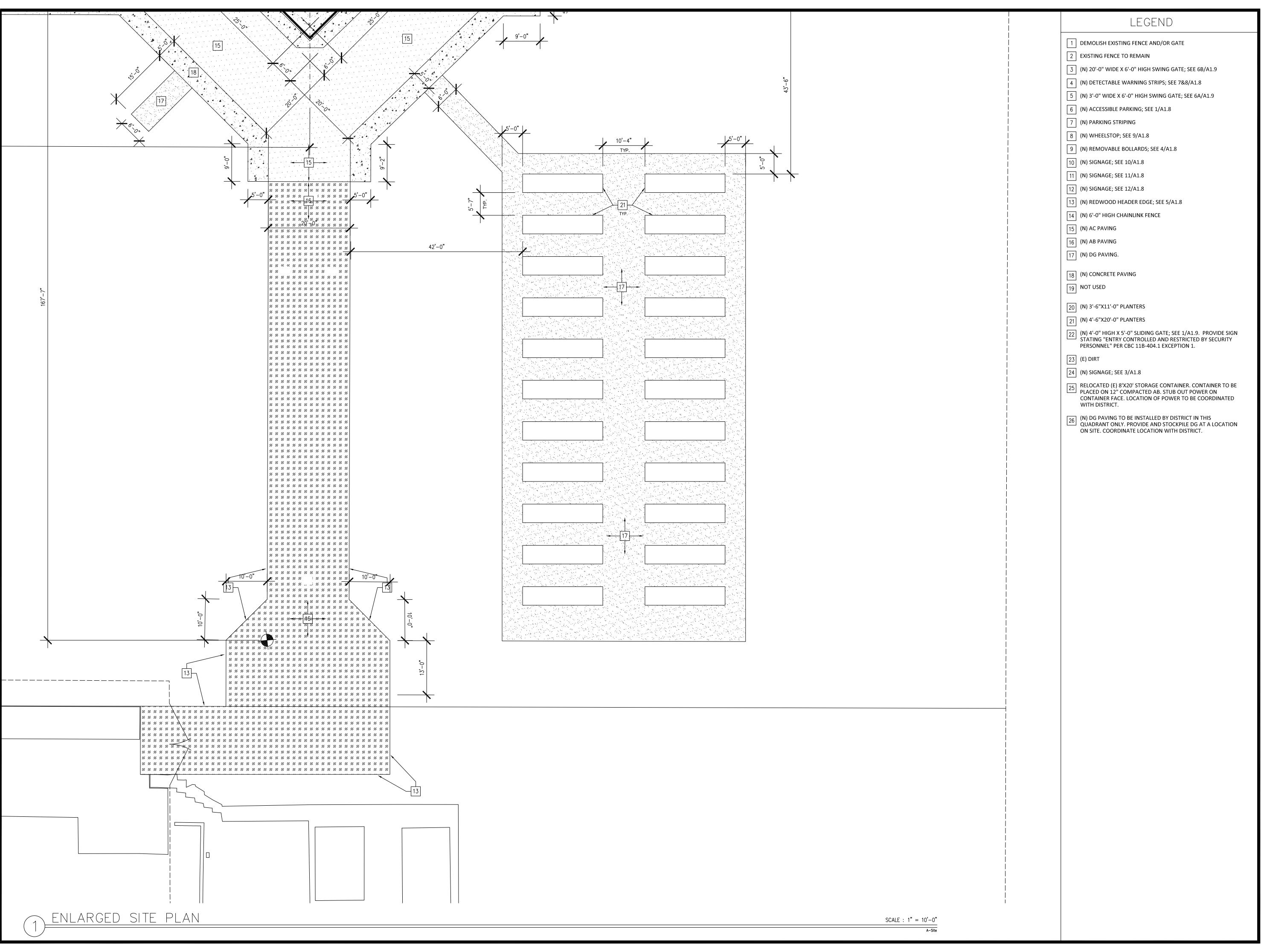
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> 4000 Suisun Valley Rd, Fairfield, CA 94534

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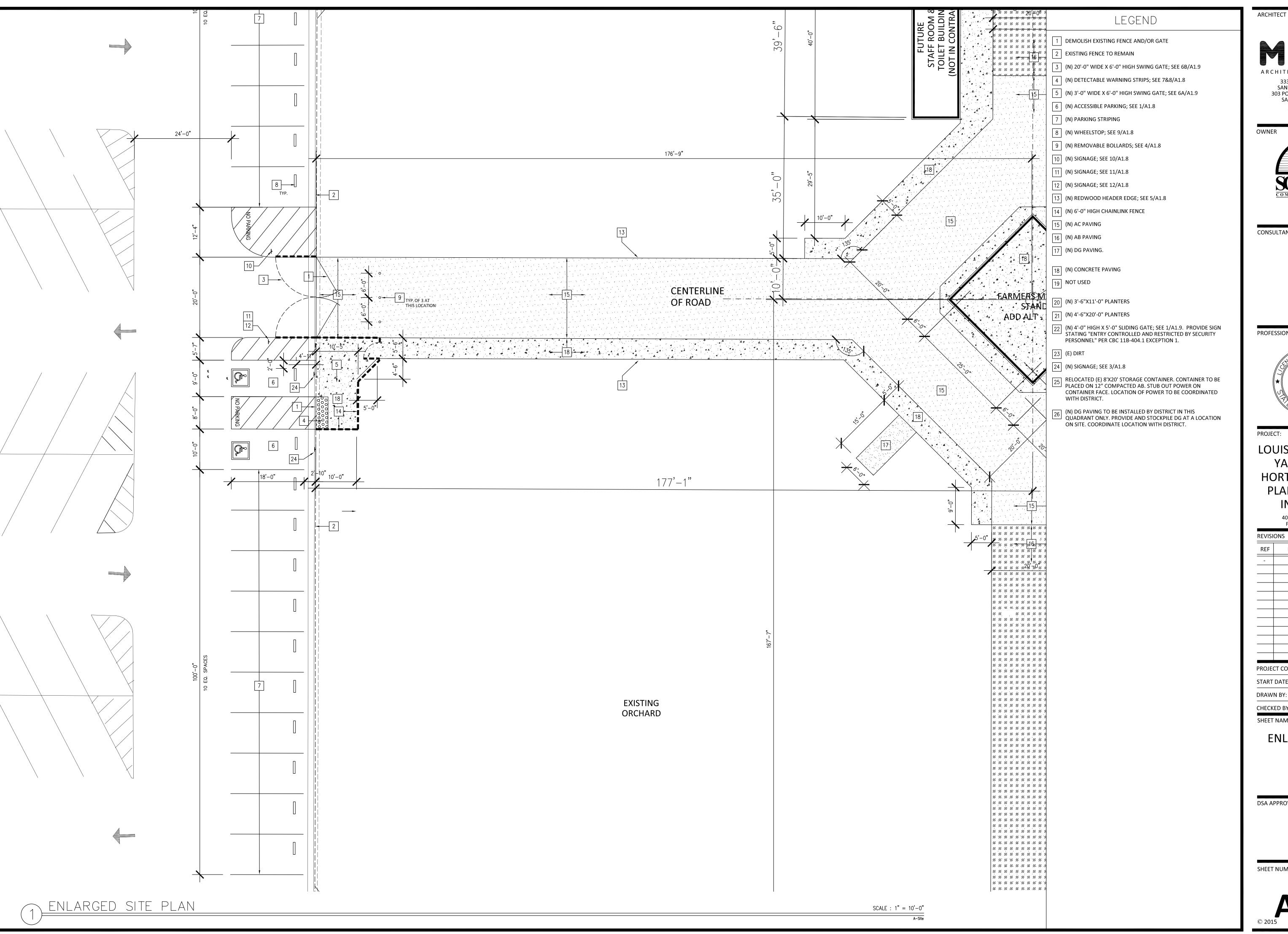
PROJECT:

LOUISE WILBOURN YARBROUGH HORTICULTURE & Z PLANT SCIENCE

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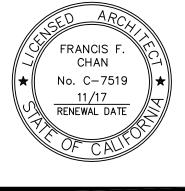
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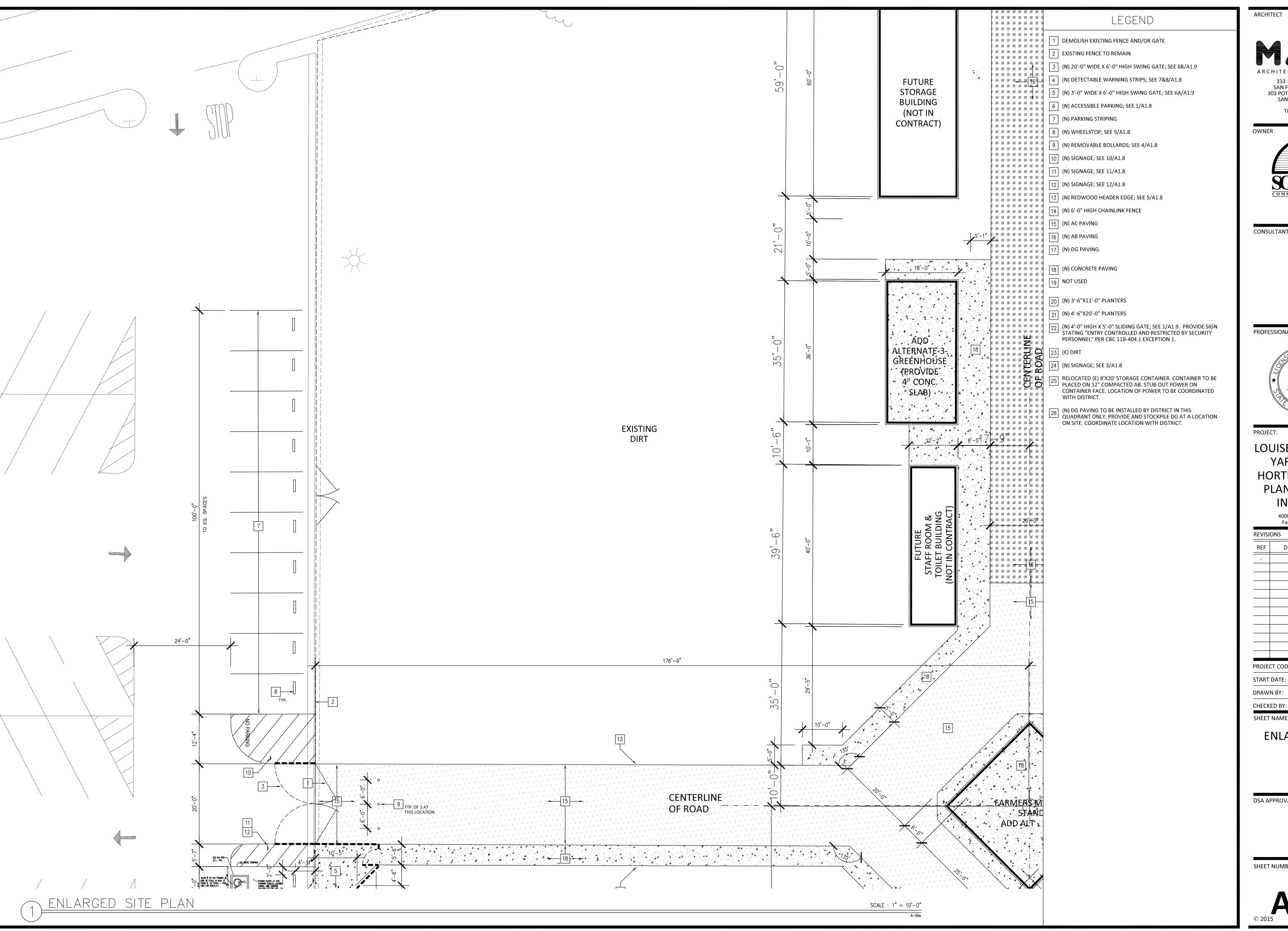
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4000 Suisun Valley Rd, Fairfield, CA 94534

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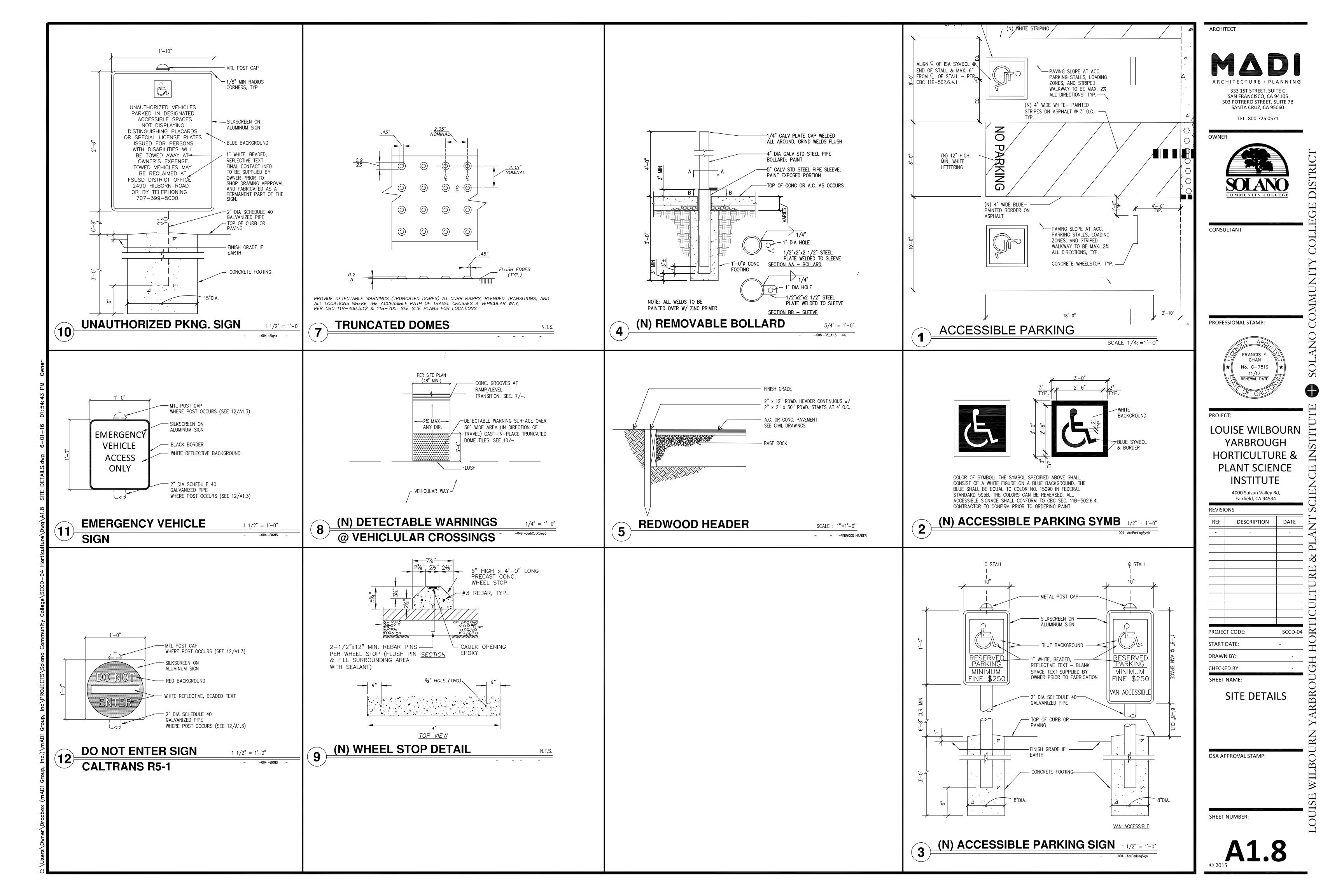
LOUISE WILBOURN YARBROUGH HORTICULTURE & Z PLANT SCIENCE INSTITUTE

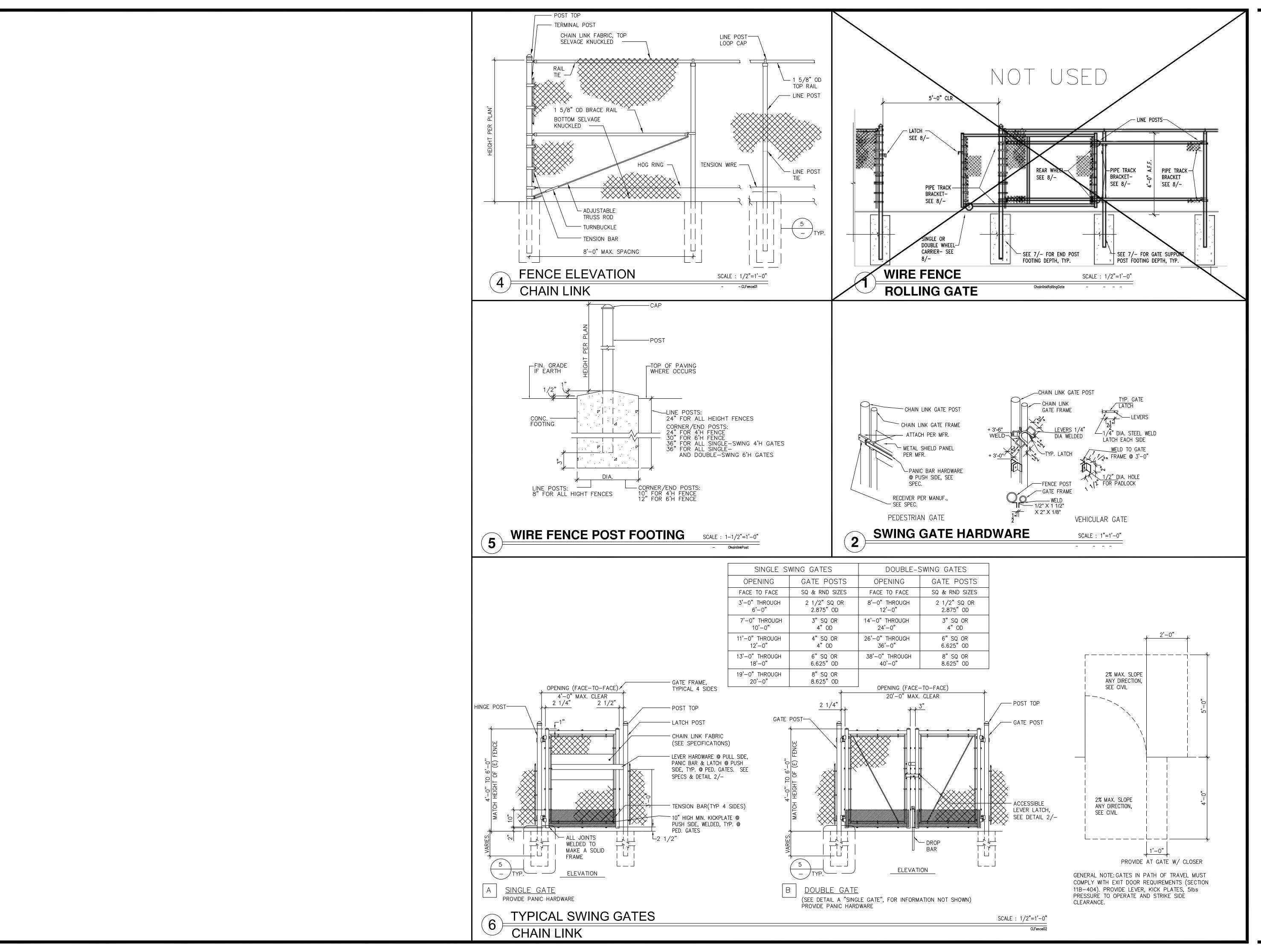
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333 1ST STREET, SUITE C SAN FRANCISCO, CA 94105 303 POTRERO STREET, SUITE 7B SANTA CRUZ, CA 95060



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CONSULTANT

PROFESSIONAL STAMP:



PROJECT: LOUISE WILBOURN YARBROUGH HORTICULTURE & Z PLANT SCIENCE INSTITUTE

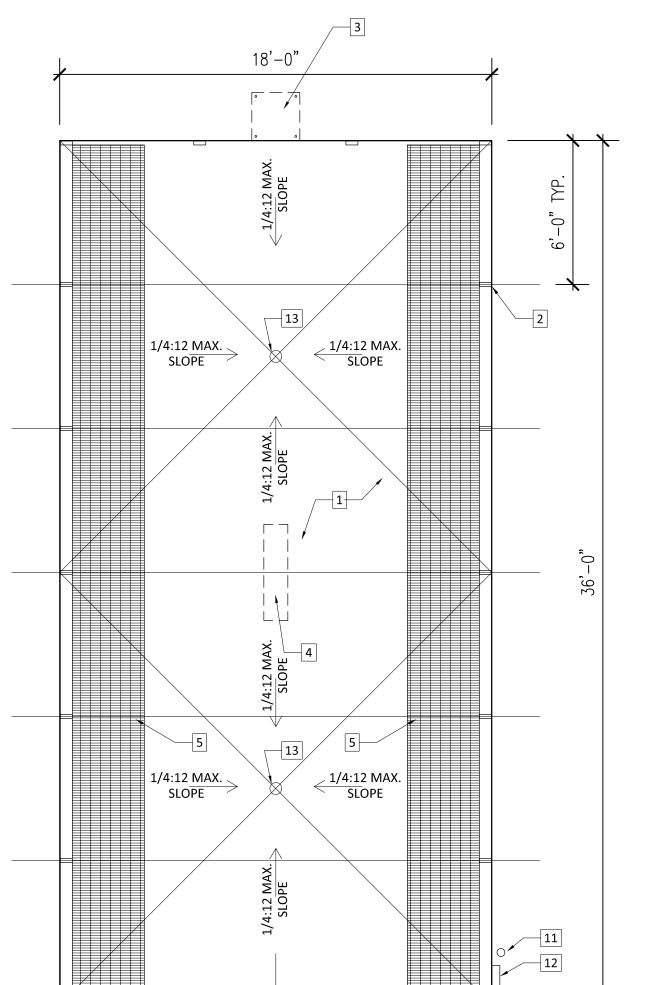
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**DETAILS** 

DSA APPROVAL STAMP:





LEGEND

- 4" THICK CONCRETE FLOOR SLAB & FOOTINGS. SLOPE TO DRAIN, 1/4:12 MAX.
- GALVANIZED STEEL BLDG. FRAME, TYP. ROLL-FORMED. ALL FASTENER HOLES PRE-DRILLED PRIOR TO GALVANIZATION. EVAPORATIVE COOLER, 3/4 HP, W/ THRU-WALL LOUVERED
- VENT & SUPPORT LEGS BY MFR. 4 60,000 BTU GAS HEATER, ABOVE. HANGER HARDWARE BY MFR.
- 3'-0" WIDE, FULL-LENGTH BUILT-IN METAL SHELF W/ EXPANDED 5 METAL SURFACE, TYP.
- 6 LOUVERED THRU-WALL VENT W/ 12" DIA. AIRFLOW FAN, TYP. 3'-0" X 6'-8" DOOR W/ GLAZED LITES & LOCKING ACCESSIBLE
- 8 MOTORIZED RIDGE VENT ASSEMBLY, FULL LENGTH OF BLDG.
- GLAZED WALL PANELS, TYP. 6mm DUAL-WALL POLYCARB
  PANELS, UV CONTROL @ EXTERIOR, CONDENSATION CONTROL @ INTERIOR.
- 10 ANOD. ALUMINUM EXTRUSIONS @ ALL PANEL JOINTS, TYP.
- APPROX. LOCATION OF NEW GAS CONNECTION, SEE SITEWORK DRAWINGS
- 12 APPROX. LOCATION OF NEW ELECTRICAL CONNECTION & PANEL, SEE SITEWORK DRAWINGS
- NEW AREA DRAIN BY SITE CONTRACTOR, CONNECT TO SITE SEWER LINE, SEE SITEWORK DRAWINGS

333 1ST STREET, SUITE C SAN FRANCISCO, CA 94105 303 POTRERO STREET, SUITE 7B SANTA CRUZ, CA 95060

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ARCHITECT



CONSULTANT

PROFESSIONAL STAMP:



LOUISE WILBOURN HORTICULTURE & PLANT SCIENCE INSTITUTE

4000 Suisun Valley Rd, Fairfield, CA 94534 REVISIONS DESCRIPTION

SCCD-04 PROJECT CODE: START DATE: DRAWN BY:

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ADD ALTERNATEGREENHOUSE PLANS

AND ELEVATIONS AND ELEVATIONS 🔀 ADD ALTERNATE-3

DSA APPROVAL STAMP:

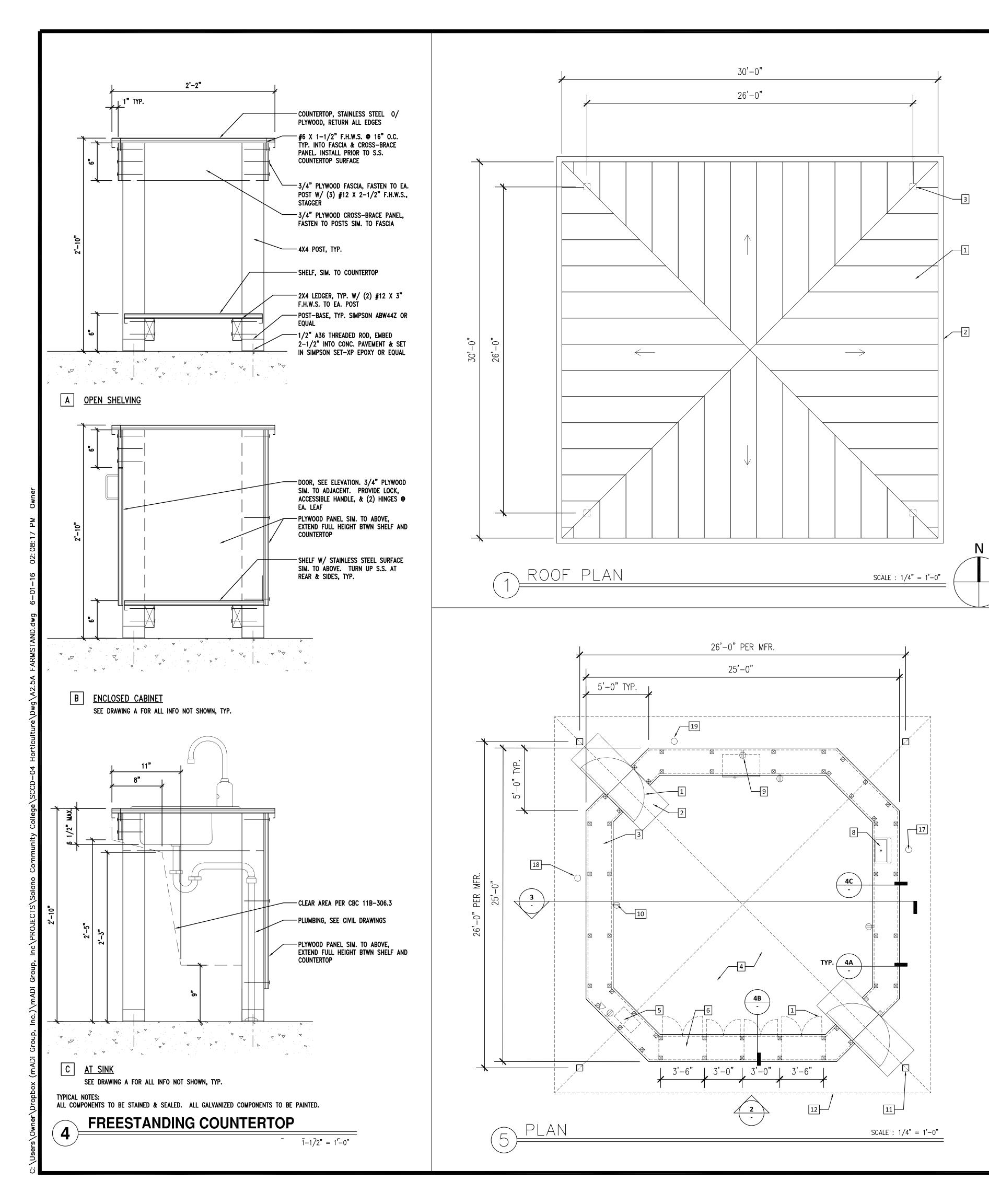
ADD ALTERNATE 3

SCOPE OF WORK INCLUDES GREEN HOUSE BUILDING, PAD PREPARATION, COMPACTION, CONCRETE SLAB, FOUNDATION AND HOOK UP OF ALL UTILITIES. ANY SUBSTITUTION OF THE PRODUCT MUST BE APPROVED BY THE DISTRICT AND ITS REPRESENTATIVES. SUBSTITUTION REQUESTS WILL BE EVALUATED TO SEE

OF THE NEW PRODUCT IS AN EQUAL TO THE ONE RECOMMENDED IN THESE CONTRACT DOCUMENTS

GENERAL NOTES

- L. THESE DRAWINGS ARE TO SHOW DESIGN INTENT ONLY. BUILDING MFR. TO PROVIDE FINAL CONSTRUCTION DRAWINGS TO ARCHITECT
- . UTILITY LINES WITHIN 5' OF BUILDING FOOTPRINT ARE TO BE INSTALLED BY BUILDING CONTRACTOR, IN COORDINATION WITH SITE CONTRACTOR.
- 3. FIRE ALARM SYSTEM WITHIN BUILDING TO BE INSTALLED BY SITE CONTRACTOR, IN COORDINATION WITH BUILDING MFR. 4. BUILDING TO COMPLY WITH ALL APPLICABLE PROVISIONS OF THE
- 2013 CALIFORNIA BUILDING CODE. BUILDING FOUNDATION TO BE CAST-IN-PLACE CONCRETE SLAB AND FOOTINGS, BY BUILDING CONTRACTOR.
- BUILDING PAD TO BE PROVIDED BY SITE CONTRACTOR PER BUILDING MFR'S REQUIREMENTS.



# **ADD ALTERNATE 1**

SCOPE OF WORK INCLUDES GREEN HOUSE BUILDING, PAD PREPARATION, COMPACTION, CONCRETE SLAB, FOUNDATION AND HOOK UP OF ALL UTILITIES. SEE **DETAILS 1,2 AND 3 OF THIS SHEET AND CIVIL AND** ARCHITECTURAL DRAWINGS PROVIDED WITH THIS CONSTRUCTION DOCUMENT SET. ANY SUBSTITUTION OF THE PRODUCT MUST BE APPROVED BY THE DISTRICT AND ITS REPRESENTATIVES. SUBSTITUTION REQUESTS WILL BE EVALUATED TO SEE OF THE NEW PRODUCT IS AN EQUAL TO THE ONE RECOMMENDED IN THESE CONTRACT DOCUMENTS

# **ADD ALTERNATE 2**

SCOPE OF WORK INCLUDES THE CONSTRUCTION OF CABINETRY AND COUNTERTOPS AS SHOWN IN DETAILS 3,4 AND 5 OF THIS SHEET. SCOPE OF WORK INCLUDES HOOK UP OF ALL UTILITIES. PROVIDE SHOP DRAWINGS FOR CABINETRY PRIOR TO CONSTRUCTION.

# 7 CASEWORK, BY GENERAL CONTRACTOR

ROOF" FINISH.

- 1. THESE DRAWINGS ARE TO SHOW DESIGN INTENT ONLY. BUILDING
- 2. UTILITY LINES WITHIN 5' OF BUILDING FOOTPRINT ARE TO BE INSTALLED BY BUILDING CONTRACTOR, IN COORDINATION WITH SITE
- CONTRACTOR, IN COORDINATION WITH BUILDING MFR. 4. BUILDING TO COMPLY WITH ALL APPLICABLE PROVISIONS OF THE
- 6. BUILDING PAD TO BE PROVIDED BY SITE CONTRACTOR PER BUILDING
- MFR'S REQUIREMENTS. SITE CONTRACTOR.

REFER TO MANUFACTURER DRAWINGS FOR STRUCTURE PROVIDED WITH THIS **BID SET** 

# GENERAL NOTES

LEGEND

SUPPORT POST, TYP. PER MFR. SQUARE HSS STEEL TUBE W/CAST-IN-PLACE CONCRETE FOOTING. ALL SURFACES PAINTED.

EAVE BEAM, HSS STEEL TUBE SIM. TO ROOF STRUCTURE. ALL SURFACES PAINTED

6 CEILING FAN, SUSPEND FROM HIGH POINT OF ROOF FRAMING. CONCEAL ELECTRICAL CONDUIT INSIDE STEEL FRAMING.

4 WELDED OR CONCEALED BOLTED CONNECTIONS. ALL SURFACES

2 TYP. PROVIDE DOWNSPOUT TO GRADE AT EACH POST

¬ STANDING SEAM METAL ROOFING SYSTEM, TYP. 24 GA. MIN. "COOL

GALV. SHEET METAL GUTTER, FINISH TO MATCH ROOFING PANELS,

ROOF STRUCTURE PER MFR, TYP. HSS STEEL TUBES THROUGHOUT, W/

- MFR. TO PROVIDE FINAL DRAWINGS TO ARCHITECT, FOR DSA REVIEW
- 3. FIRE ALARM SYSTEM WITHIN BUILDING TO BE INSTALLED BY SITE
- 2013 CALIFORNIA BUILDING CODE. 5. BUILDING FLOOR/FOUNDATION SYSTEM TO BE CAST-IN-PLACE
- CONCRETE FOOTINGS, BY BUILDING CONTRACTOR.
- 7. PAVEMENT UNDER AND ADJACENT TO BUILDING TO BE PROVIDED BY

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LOUISE WILBOURN YARBROUGH

HORTICULTURE & Z PLANT SCIENCE

AND ELEVATIONS ADD ALTERNATES

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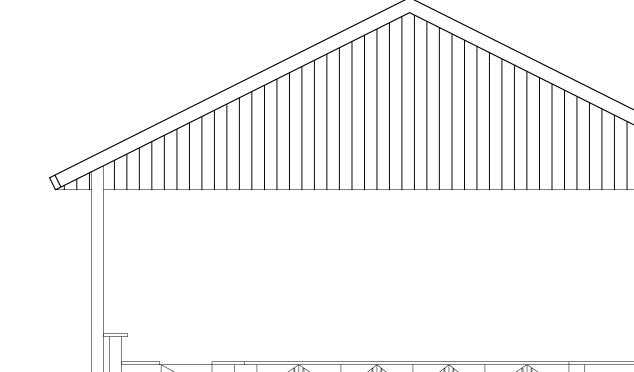
**INSTITUTE** 4000 Suisun Valley Rd, Fairfield, CA 94534 START DATE: CHECKED BY: SHEET NAME: FARM STAND PLANS ₩ 1 & 2

SCALE : 1/4" = 1'-0"

SCALE : 1/4" = 1'-0"

SOUTH ELEVATION





## GENERAL NOTES:

- MOUNTING HEIGHT IS TO THE CENTER OF EQUIPMENT, U.O.N. MOUNTING HEIGHTS OF SUSPENDED LIGHT FIXTURES ARE TO THE BOTTOM OF THE FIXTURE.
- RECEPTACLES AND DEVICES INSTALLED ABOVE COUNTER SHALL HAVE THE BOTTOM OF COVER PLATE AT APPROX 2-INCHES ABOVE COUNTER OR
- 3. CAP ALL EMPTY CONDUITS FOR FUTURE USE WATERTIGHT WITH MANUFACTURERS END CAP, WITH PULL STRING ATTACHED.
- 4. SEAL ALL EXTERIOR WALL PENETRATIONS WATERTIGHT WITH SILICONE GROUT.
- 5. SEAL ALL WALL AND CEILING PENETRATIONS WITH GROUT. WHERE CONDUITS PENETRATE FIRE RATED BARRIERS, SEAL PENETRATIONS WITH FIRE RATED COMPOUND TO MATCH OR EXCEED BARRIER RATING.
- 6. PENETRATIONS OF FIRE RATED ASSEMBLIES SHALL BE SEALED AS REQUIRED BY CBC.
- 1. ALL CONDUITS AND BOXES ON THE EXTERIOR SHALL BE PAINTED TO MATCH THE ADJACENT FINISH.
- 8. WHERE FIRE RATED CONSTRUCTION IS REQUIRED (REFER TO ARCHITECTURAL DRAWINGS), DO NOT LOCATE ELECTRICAL OUTLET BOXES BACK-TO-BACK. PROVIDE MINIMUM 24" HORIZONTAL SEPARATION BETWEEN OUTLET BOXES PER CBC.
- 9. FIRE STOPPING SHALL BE PROVIDED WHERE PENETRATING ITEMS PASS ENTIRELY THROUGH BOTH PENETRATIVE MEMBRANES OF BEARING WALLS REQUIRED TO HAVE A FIRE-RESISTIVE RATING AND WALLS REQUIRING PROTECTED OPENINGS. FIRE STOPPING SHALL ALSO BE PROVIDED AT PENETRATIONS OF FIRE RESISTIVE FLOORS AND FLOORS WHICH ARE PART OF A CEILING-FLOOR ASSEMBLY. FIRE-STOPPING SHALL HAVE AN "F" AND/OR "T" RATING AS DETERMINED BY TESTS CONDUCTED IN ACCORDANCE WITH CBC STD. 43-6.
- 10. JUNCTION BOXES, CABINETS, EQUIPMENT ENCLOSURES, SWITCHES, PANELS, ETC. INSTALLED OUTDOORS, OR IN WET OR DAMP LOCATIONS, SHALL BE RATED NEMA-3R FOR OUTDOOR ENVIRONMENTS. PROVIDE MINIMUM 1/4" AIR GAP BETWEEN ENCLOSURE AND WALL SURFACE. PROVIDE GALVANIZED METAL CHANNELS FOR MOUNTING ENCLOSURE ONTO WALL AS REQUIRED.
- 11. ALL BOXES FOR LIGHT SWITCHES SHALL HAVE CIRCUIT ID HANDWRITTEN (WITH PERMANENT FELT PEN) ON THE BACK INSIDE OF THE BOX.
- 12. ALL RECEPTACLES SHALL HAVE CIRCUIT ID ON THE COVERPLATE. USE TYPEWRITTEN "CLEAR TAPE". CLEAN SURFACE BEFORE ADHESIVE TAPE IS APPLIED. SAMPLE, "HA-11".
- 13. ALL WIRING SHALL BE IN CONDUIT, ALL CIRCUITS SHALL BE CONCEALED EXCEPT THAT ON EXISTING SURFACE AND IN DRY LOCATIONS WHERE NECESSARY AND ACCEPTABLE TO THE ARCHITECT, SURFACE METAL RACEWAY (SMR) CAN BE USED, WIREMOLD OR EQUAL. 1/2" CONDUIT WITH LESS THAN 5#12 WIRES SHALL CORRESPOND TO A V200 RACEWAY, OTHERWISE USE V500; 3/4" CONDUIT SHALL CORRESPOND TO A VIOO; I" CONDUIT SHALL CORRESPOND TO A V2000; 1-1/4" CONDUIT SHALL CORRESPOND TO A Y2400BC. SMR SHALL BE IVORY COLOR AND SHALL BE SECURED TO SURFACES WITH 2 HOLE STRAPS. PROVIDE ALL FITTINGS, ADAPTERS, COUPLINGS, BOXES, ETC. AS REQUIRED FOR A COMPLETE SYSTEM. PROVIDE MATCHING SURFACE OUTLET BOX. PAINT TO MATCH ADJACENT FINISH.
- 14. DEVICE AND EQUIPMENT HEIGHTS SHALL BE COORDINATED WITH ARCHITECTURAL PLANS AND ELEVATIONS. CONFLICTS SHALL BE ADDRESSED TO THE ARCHITECT PRIOR TO ROUGH-IN.
- 15. COORDINATE EXACT LOCATION OF EXTERIOR WALL LIGHT FIXTURES, SPEAKERS, ETC. WITH ARCHITECTURAL ELEVATIONS.
- 16. ELECTRICAL CIRCUITS TO AC UNITS SHALL COME UP INSIDE OF AC CURBS, UNLESS
- 17. IN CERTAIN ROOMS, CIRCUITING AND DEVICES/EQUIPMENT IN ONE ROOM ARE INDICATED TO BE SIMILAR TO ANOTHER ROOM'S. PROVIDE ALL SUCH CONDUIT. WIRING DEVICES, AND EQUIPMENT TO BE THE SAME AS THE OTHER ROOM INDICATED. MAKE NECESSARY MINOR ADJUSTMENTS FOR SIMILAR ROOMS THAT ARE OPPOSITE HAND, FLIP-FLOPPED, MIRRORED, OR MINOR WALL DIFFERENCES. THE FOLLOWING ITEMS ARE NOT INCLUDED IN THIS SIMILAR LAYOUT AND ARE SPECIFIC TO EACH ROOM, UNLESS SPECIFICALLY NOTED OTHERWISE.
- AIR CONDITIONING AND MECHANICAL EQUIPMENT CONNECTIONS.
- EQUIPMENT THAT IS N.I.E.S. BUT REQUIRE ELECTRICAL
- LAYOUT OF THE CABLE SUPPORT SYSTEM (CABLE HOOKS OR CABLE
- 18. NOT USED
- 19. FOR CONDUITS ROUTED BELOW FOOTING AT ELECTRICAL ROOMS, COORDINATE

### EXISTING CONDITIONS:

- DEVICES / EQUIPMENT AND CIRCUITING SHOWN AS EXISTING AND/OR EXISTING TO BE REMOVED ARE BASED ON REVIEW OF EXISTING AVAILABLE DOCUMENTS AND VISUAL FIELD VERIFICATION. SUCH INFORMATION MAY NOT BE ACCURATE PRIOR TO DEMOLITION AND CONSTRUCTION, CONTRACTOR SHALL FIELD YERIFY EXISTING CONDITIONS TO DETERMINE ACCURACY. WHERE EXISTING CONDITIONS DO NOT REFLECT THE INFORMATION SHOWN ON THE PLANS, AND WHERE CONTRACTOR'S INVESTIGATION CANNOT DETERMINE THE PROPER ADJUSTMENTS NEEDED TO MEET THE INTENT OF THE DESIGN, CONTRACTOR SHALL INFORM ARCHITECT.
- 2. EXISTING CIRCUITS AND HOMERUNS WERE BASED ON EXISTING
- REMOVED EQUIPMENT SHALL MAINTAIN CIRCUIT CONTINUITY FOR DEVICES / EQUIPMENT CONNECTED TO THE SAME CIRCUIT. EXTEND AND/OR REPOUTE THE EXISTING CIRCUITS AS NEEDED.
- 4. REVISE EXISTING PANEL SCHEDULES TO REFLECT THE NEWLY CONNECTED LOADS AND SPARE CIRCUITS.
- 5. DO NOT REUSE ANY REMOVED MATERIALS SUCH AS CONDUIT, WIRING, AND BOXES.
- 6. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL YERIFY AND DOCUMENT WITH THE OWNER THE PROPER FUNCTION AND PHYSICAL APPEARANCE OF EXISTING ELECTRICAL EQUIPMENT (DEVICES, LIGHTING, RECEPTACLES, ETC.) IN THE ROOM AND THE AREA OF WORK UNDER THIS CONTRACTOR. IF AFTER CONSTRUCTION ANY EXISTING EQUIPMENT IS DAMAGED OR DOES NOT FUNCTION PROPERLY, THE CONTRACTOR SHALL REPAIR OR REPLACE THE EQUIPMENT IN-KIND FOR PROPER FUNCTION AND APPEARANCE.

# COMPONENT ANCHORAGE NOTE:

ALL ELECTRICAL COMPONENTS SHALL BE ANCHORED & INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAILS IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 6 AND 13.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED)
- TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. 3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY

THE ATTACHMENT OF THE FOLLOWING ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED CONDUIT.

- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT
- 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.

FOR THOSE ELEMENTS THAT DO NOT REQUIRED DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS & EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

# ELECTRICAL

# DISTRIBUTION SYSTEM BRACING NOTE:

ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.8, 13.6.1, 13.6.5.6, AND 2013 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM #) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

TERMINAL CABINET SCHEDULE								
DEGLONATION	SIZE			MOUNTING		11 <del>-</del> 644 1		
DESIGNATION	Z	#	Ω	SURFACE	RFACE FLUSH NEMA-1		NEMA-3R	
FATC-H	14"	24"	6"					
9ТС-Н	14"	24"	6"					

- 1. ALL TERMINAL CABINETS SHALL BE NEMA-1 WITH HINGED DOORS, CYLINDER TYPE LOCKS, & 3/4" PLYWOOD BACKBOARD, U.O.N.
- 2. PROVIDE TERMINAL BLOCKS, TYPE AS REQUIRED.
- A. SIEMENS #66MI-50 WITH 89B STAND-OFF. MAKE FULL USE OF BRIDGE CLIPS.
- B. BUCHANAN #0525 SERIES. PROVIDE CHANNEL CLAMPS, CHANNEL AND END SECTIONS.

## ABBREVIATIONS & DESIGNATIONS

EXISTING FIRE ALARM FIRE ALARM SIGNAL BOOSTER PANEL FABP FACP FIRE ALARM CONTROL PANEL FATC FIRE ALARM TERMINAL CABINET GND GROUND EMPTY CONDIT WITH PULL CORD MTC CONDUIT WITH WIRING AS INDICATED OR AS REQUIRED (N) NIES NOT IN ELECTRICAL SECTION OF THESE PLANS AND SPECIFICATIONS STC SIGNAL TERMINAL CABINET UNLESS OTHERWISE NOTED UON WEATHERPROOF FIRE ALARM VISUAL DEVICE SUBSCRIPTS-

NUMBER INDICATES LIGHT INTENSITY

# POWER AND SIGNAL SYSTEMS DURING CONSTRUCTION

- POWER AND SIGNAL SYSTEMS: SYSTEMS SHUT-DOWNS SHALL BE COORDINATED WITH THE OWNER. SYSTEMS DOWN TIME SHALL OCCUR ONLY ON THE WEEKENDS AND DURING "OFF" HOURS. THE WEEKEND SHALL BE DEFINED AS FROM 5:00 PM FRIDAY TO THE NEXT 6:00 AM MONDAY. "OFF" HOURS SHALL BE DEFINED AS FROM 5:00 PM EVENING TO 6:00 AM THE NEXT MORNING. NORMAL BUSINESS HOURS SHALL BE DEFINED AS 6:00 AM MONDAY TO 5:00 PM FRIDAY WITHIN THE SAME WEEK. DURING BUSINESS HOURS, POWER SHALL BE PROVIDED AND SIGNAL SYSTEMS SHALL BE OPERATIONAL TO THE CAMPUS.
- 2. SIGNAL SYSTEMS SHALL INCLUDE TELECOR INTERCOM, PAGING, CLOCK SYSTEM, ADEMCO INTRUSION, DATA, VOIP TELEPHONE, TELEVISION, AND HARRINGTO FIRE
- 3. THROUGHOUT CONSTRUCTION, THE ELECTRICAL AND SIGNAL SYSTEMS SHALL REMAIN IN OPERATION.
- 4. SIGNAL SYSTEMS: PROVIDE DEVICES AS SHOWN ON THE DRAWINGS AND ALL NECESSARY EQUIPMENT INCLUDING HARDWARE, WIRING AND PROGRAMMING FOR A COMPLETE AND OPERATIONAL SYSTEM PER SCHOOL DISTRICT REQUIREMENTS. COORDINATE WITH SCHOOL DISTRICT FOR SYSTEM OPERATIONS PRIOR TO BID. TEST SYSTEM TO COMPLY WITH MANUFACTURER'S OPERATION REQUIREMENTS. DEVICES AND EQUIPMENT ADDITIONS SHALL NOT YOID THE EXISTING EQUIPMENT WARRANTY.
- 5. LOCAL FIRE AUTHORITY SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF FIRE ALARM SHUT DOWN.

## ELECTRICAL SYMBOLS LIST

CONDUIT CONCEALED IN CEILING OR WALL.

----- CONDUIT CONCEALED BELOW FLOOR OR GRADE.

HOMERUN TO RESPECTIVE PANEL OR TERMINAL INDICATES 1#12 (GREEN) GROUND WIRE; OTHER SIZES AS INDICATED.

BRANCH CIRCUIT WITHOUT FURTHER DESIGNATION IS A 2#12 WIRE CIRCUIT. NOTE: 

PULL-BOX WITH GROUND ROD, SEE DETAIL-B/E4.1A.

PANELBOARD, SEE SCHEDULE.

TERMINAL CABINET BACKBOARD. 

15 AMP DOUBLE DUPLEX RECEPTACLE MOUNT IN IDF.

FIRE ALARM END OF LINE DEVICE.

FIRE ALARM EXTERIOR HORN.

FIRE ALARM HORN/STROBE, +80", 15cd, 15cd U.O.N. ADDRESSABLE 135° F CEILING HEAT DETECTOR, FIXED TEMPERATURE WITH R-O-R.

FIRE ALARM ADDRESSABLE 190° F ATTIC HEAT DETECTOR.

ADDRESSABLE PHOTO-ELECTRIC CEILING SMOKE DETECTOR

FIRE ALARM CONTROL PANEL

FIRE ALARM BOOSTER PANEL FIRE ALARM TERMINAL CABINET.

MONITOR MODULE.

CONTROL MODULE TRANSFORMER

SINGLE DATA OUTLET WITH WIRELESS ACCESS PANEL, WALL MOUNTED, +9'-O".

H2 DATA OUTLET WITH 2 PORTS, +18".

TELEPHONE HANDSET, WALL MOUNTED, +48". MATCH EXISTING SYSTEM.

INTERMEDIATE DISTRIBUTION FRAME.

# OPEN WIRED LOW YOLTAGE CABLE WIRING NOTES:

(APPLICABLE TO LY SIGNAL SYSTEM WITHIN BUILDINGS.)

- 1. CABLE HOOKS SHALL ONLY BE USED WHERE SHOWN ON THE PLANS FOR OPEN WIRED LOW YOLTAGE CABLING IN DRY LOCATIONS INSTALLED ABOYE ACCESSIBLE T-BAR CEILINGS. ONLY LOW YOLTAGE LIMITED ENERGY CLASS-2 AND CLASS-3 SYSTEMS SHALL BE OPEN WIRED. ALL OTHER SYSTEM CLASSES SHALL BE ROUTED IN CONDUIT. OPEN WIRED CABLING SHALL BE RATED FOR THE ENVIROMENT THEY ARE INSTALLED. A GENERAL PURPOSE RATING, SUCH AS "CM" CAN BE USED ABOVE CEILINGS. IN PLENUM SPACES USED PLENUM RATED CABLES, & FOR RISER LOCATIONS USE RISER RATED CABLES.
- 2. SYSTEM SEPARATION:
- A. DATA AND TELEPHONE CABLES SHALL SHARE ONE SET OF CABLE HOOKS. B. ALL OTHER SIGNAL CABLING SHALL SHARE THE OTHER SET OF CABLE HOOKS.
- 3. CABLE HOOKS USED TO SUPPORT OPEN WIRED CABLES SHALL BE AS FOLLOWS:
- A. B-LINE #BCH32 (2", MAX 10 4-PR UTP CABLES)
- B. B-LINE #BCH64 (4", MAX 280 4-PR UTP CABLES). C. B-LINE #BCH21 ( 1 5/16", MAX. 30 4-PR UTP CABLES).
- DO NOT FILL TO MORE THAN 15% CAPACITY, CABLE HOOKS TO BE PRE-GALYANIZED STEEL, 1.5" WIDE WITH ROUNDED EDGES, STATIC CAPACITY OF 30 lbs. CABLE HOOKS SHALL BE EASILY ACCESSIBLE AND BE APPROXIMATELY 12 TO 24 INCHES ABOVE
- 4. STUB 3/4" CONDUIT FROM DEVICE BOX TO WITHIN 24" OF CABLE HOOKS, FOR DATA AND TELEPHONE OUTLETS STUB I" CONDUIT. CABLE HOOKS MAY BE USED INSTEAD OF CONDUIT ABOYE ACCESSIBLE CEILINGS.
- 5. SUPPORT CABLE HOOKS AT 48" ON CENTER. SECURE TO WALL STUDS ABOVE CEILING OR SUSPEND WITH MINIMUM 1/2" STEEL RODS. PROVIDE ALL NECESSARY FASTENERS, RODS, HANGERS, BLACKETS, ETC., AS NEEDED.
- 6. WHERE CABLES MUST PASS ABOVE CEILINGS THAT ARE NOT ACCESSIBLE OR ARE NOT T-BAR CEILINGS, THE CABLING SHALL BE ROUTED IN CONDUIT(S). PROVIDE CONDUIT TO SPAN THE SPACE THAT IS NOT ACCESSIBLE AND BETWEEN CABLE HOOK SYSTEMS.
- 1. CABLES THAT PASS THROUGH FIRE RATED WALLS, SEISMIC JOINTS, SOUND WALLS, COVERED (SHEETROCK, PLYWOOD) WALLS, ETC. SHALL PASS THRU IN CONDUIT SLEEVES. PROVIDE FIRE SEALANT FOR FIRE RATED WALLS TO MAINTAIN RATING.

#### 8. CONDUIT EQUIVALENTS:

CEILING.

(1) 2" J-HOOK = (1) 4" CONDUIT.(1) 4" J-HOOK = (2) 4" CONDUITS.

(1) 1 5/16" J-HOOK = (1) 2" CONDUIT.

9. LENGTH OF EACH J-HOOK SHALL NOT EXCEED 12" IN LENGTH.

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HARRY A. YEE & ASSOCIATES, INC.

ELECTRICAL ENGINEER

4920 FREEPORT

BOULEVARD

SUITE D

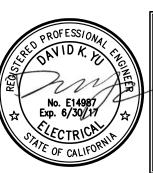
SACRAMENTO

AX: 916.454.41

HYA Job #1612A

CALIFORNIA 95822 TEL: 916.454.5319

CONSULTANT



PROFESSIONAL STAMP:

PROJECT: HORTICULTURE & PLANT SCIENCE INSTITUTE PHASE II: Z **MODULAR** BUILDINGS

4000 Suisun Valley Rd, Fairfield, CA 94534 REVISIONS DESCRIPTION DATE DSA SUBMITTAL 3/7/16

SCCD-04 PROJECT CODE: START DATE:

HW-DB

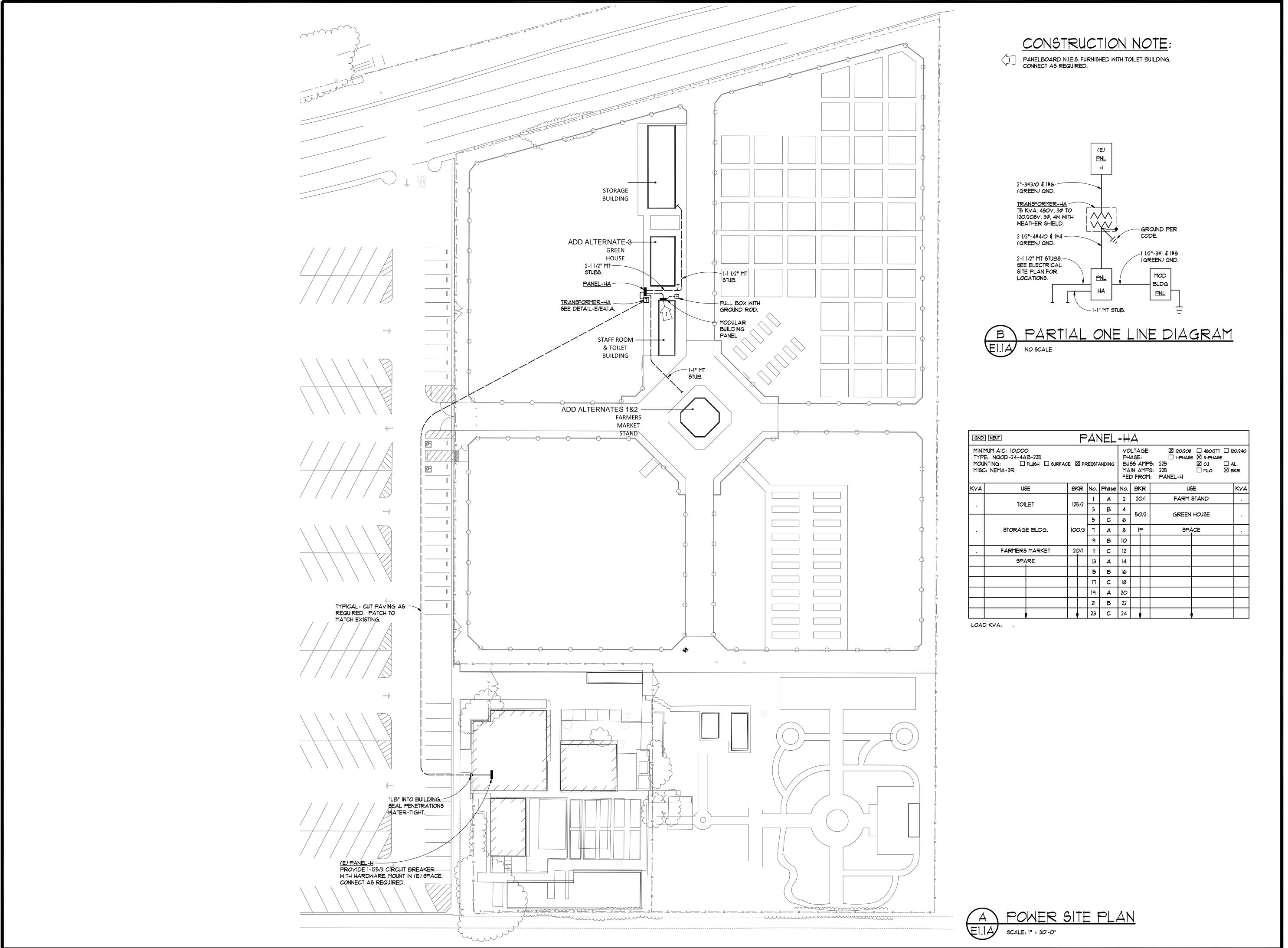
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CHECKED BY: SHEET NAME:

DRAWN BY:

**ELECTRICAL** SYMBOLS LIST SCHEDULE, & NOTES

DSA APPROVAL STAMP:



ARCHITECTURE + PLANNING

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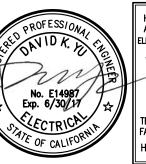
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PROFESSIONAL STAMP:

HORTICULTURE & LOUIS PLANT SCIENCE INSTITUTE PHASE II: MODULAR BUILDINGS

4000 Suisun Valley Rd,

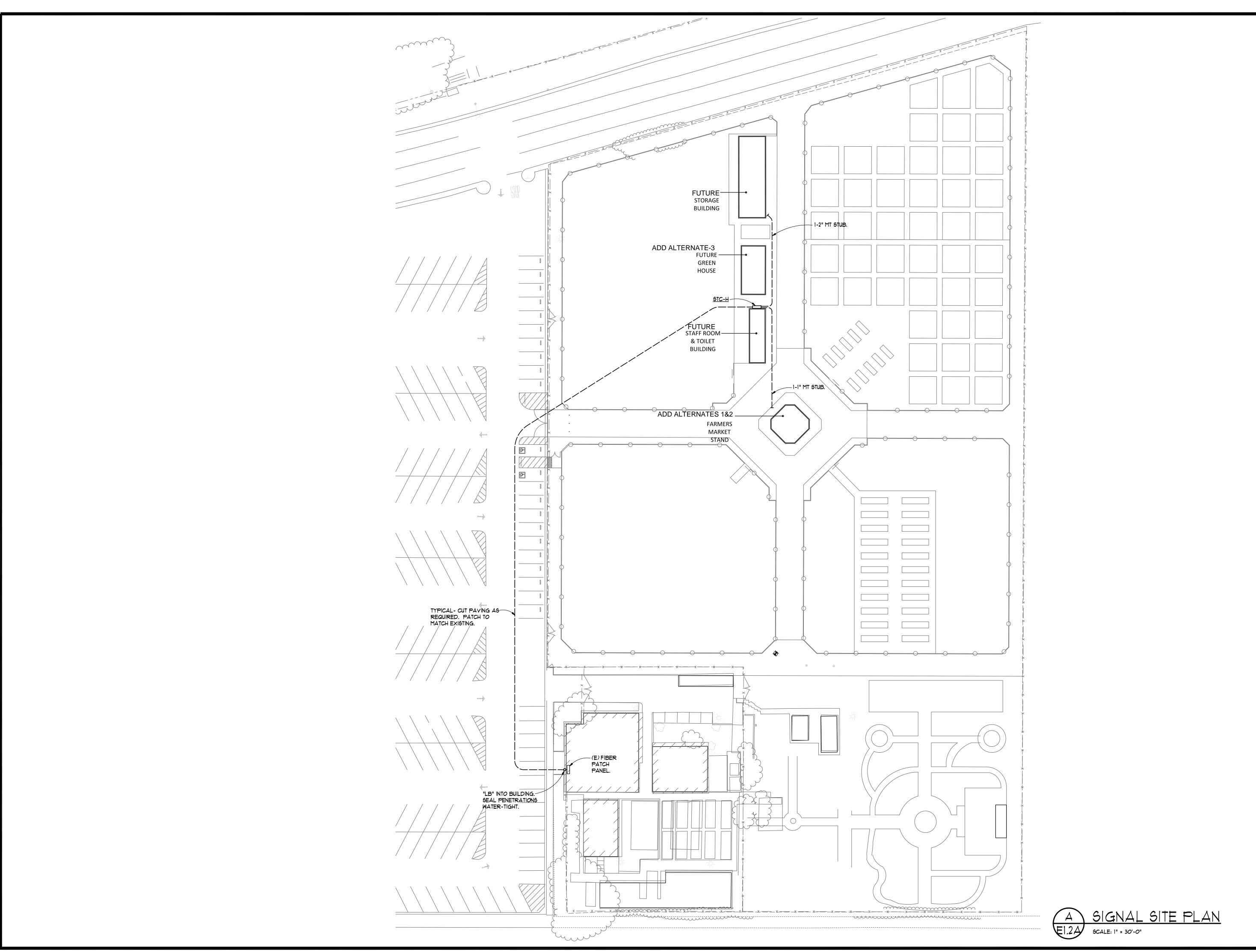
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SITE PLAN

**POWER** 

DSA APPROVAL STAMP:

E1.1A



ARCHITECTURE + PLANNING

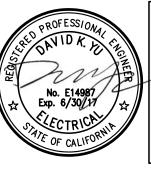
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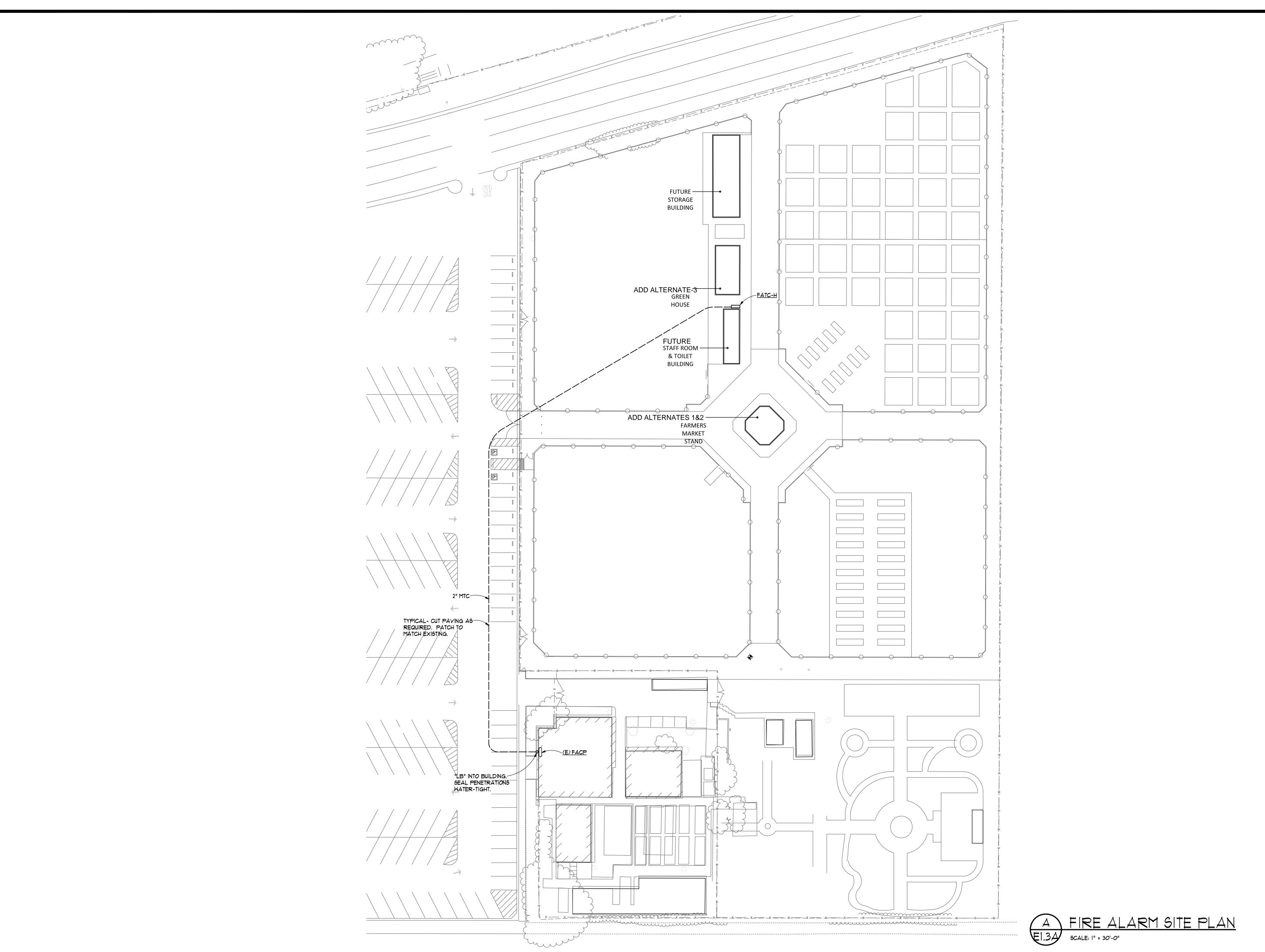
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SIGNAL SITE PLAN

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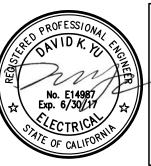
333 1ST STREET, SUITE C SAN FRANCISCO, CA 94105 303 POTRERO STREET, SUITE 7B SANTA CRUZ, CA 95060



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PROFESSIONAL STAMP:

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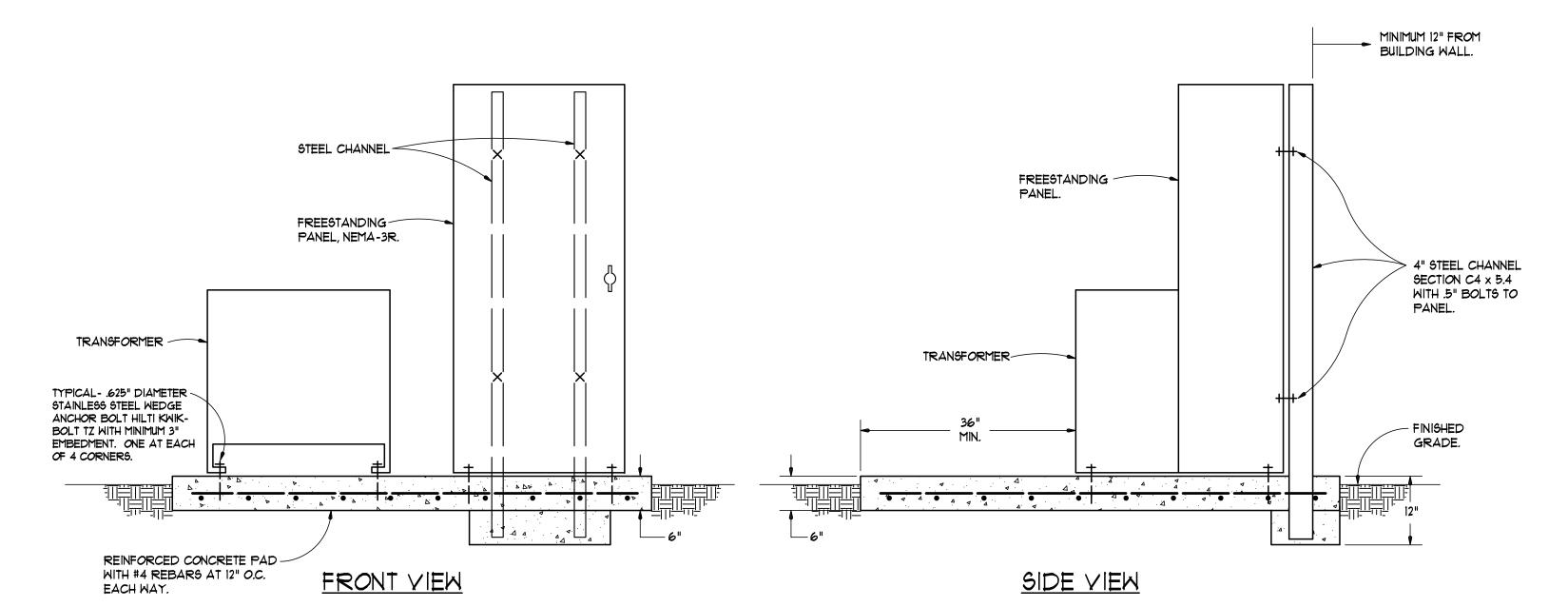
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FIRE ALARM SITE PLAN

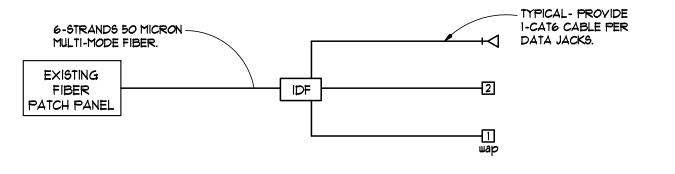
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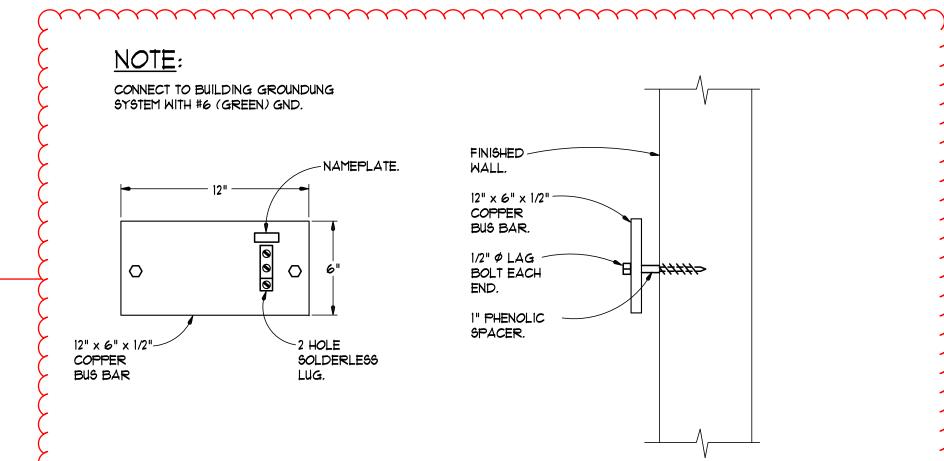
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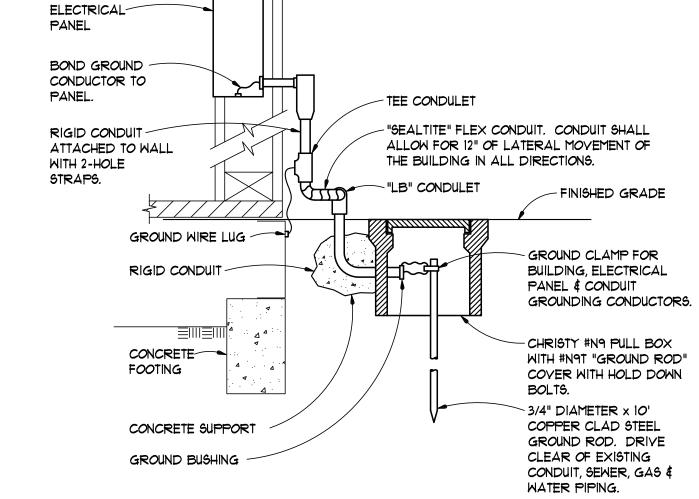




DATA/TELEPHONE RISER DIAGRAM
E4.14 NO SCALE







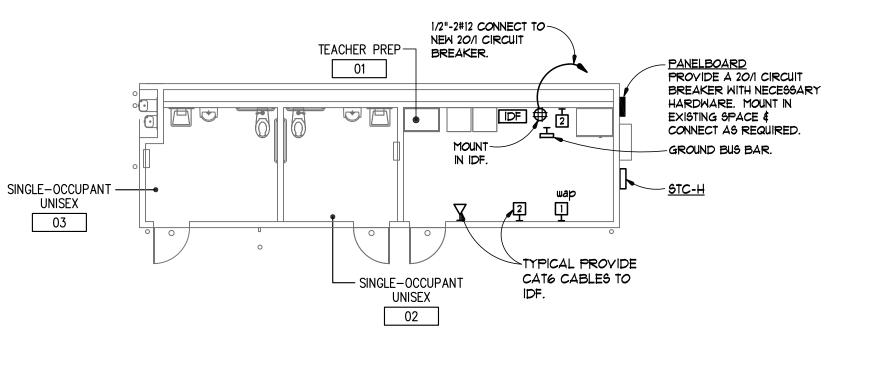
### NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250-94.

#### 2. BOND THE GROUND ROD TO METAL WATER PIPE, IF AVAILABLE.

- 3. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (CEC 250-81) IN ADDITION TO THE DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FEET INTO THE SOIL IF AVAILABLE (CEC 250-81 AND 250-83).
- 4. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN, SEPARATED AT LEAST 6'-O", UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. FORWARD TEST RESULTS TO ENGINEER.





RESTROOM
SIGNAL FLOOR PLAN
E4.1A SCALE: 1/8" = 1'-0"

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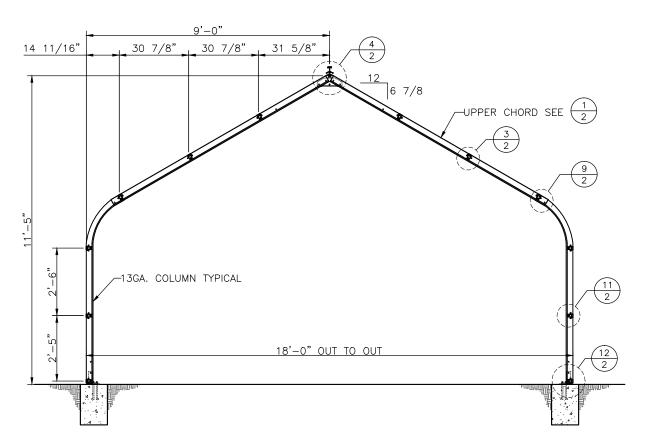
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SIGNAL FLOOR PLANS

DSA APPROVAL STAMP:

SHEET NUMBER:

**E4.1**A



TYPICAL SECTION

TYPICAL ENDWAL

SCALE: 3/8" = 1"

3/16"ø CABLE "X" BRACING FROM TOP OF COL. TO BOT. OF ADJACENT COL. TYP. EA. COL. LINE @ EA. END. TYP. SPACING o/c, 00 0 3/16"ø GABLE BRACING CABLE FROM ENDWALL COLUMN TO THE FIRST TRUSS CHEVRON SPLICE -PURLINS SEE ( 2 18'-0" BAY

#### TYPICAL PLAN VIEW

# 1/2" SQ. TUBE END WALL UPRIGHT 6'-0" 6'-0" $-GIRTS \left( \frac{2}{2} \right)$

#### **BUILDING SPECIFICATIONS:**

THIS STRUCTURE HAS BEEN DESIGNED AND DETAILED FOR THE LOADS AND CONDITIONS SHOWN ON THESE DRAWINGS. ANY ALTERATIONS TO THE STRUCTURAL SYSTEM OR REMOVAL OF ANY COMPONENT PARTS OR THE ADDITION OF OTHER CONSTRUCTION MATERIALS OR LOADS MUST BE DONE UNDER THE ADVICE AND DIRECTION OF A REGISTERED ARCHITECT, CIVIL OR STRUCTURAL ENGINEER. CONLEY'S MANUFACTURING & SALES WILL ASSUME NO RESPONSIBILITY FOR ANY LOADS NOT INDICATED.

THIS METAL BUILDING IS DESIGNED WITH CONLEY'S MANUFACTURING 1. ALL CONSTRUCTION TO COMPLY WITH THE LATEST EDITION OF THE & SALES DESIGN PRACTICES WHICH ARE BASED ON PERTINENT PROCEDURES AND RECOMMENDATIONS OF THE FOLLOWING ORGANIZATIONS AND CODES, AND ARE ACCEPTED PRACTICES IN THE LOW RISE METAL AND AGRICULTURAL BUILDING INDUSTRY.

AMERICAN INSTITUTE OF STEEL CONSTRUCTION: "STEEL CONSTRUCTION MANUAL" 13TH EDITION. 2005 A.I.S.C. (M.B.M.A.) "SERVICEABILITY" STANDARDS WILL BE

AMERICAN IRON AND STEEL INSTITUTE: 2007 EDITION: NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.

INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS: "CALIFORNIA BUILDING CODE" 2013 EDITION

AMERICAN WEIDING SOCIETY: "STRUCTURAL WELDING CODE" A.W.S D1.1-10

USED FOR THIS DESIGN.

METAL BUILDING MANUFACTURER'S ASSOCIATION: "METAL BUILDING SYSTEMS MANUAL" 2006

### **ADD ALTERNATE-3**

PROVIDE CONLEY'S OR EQUAL

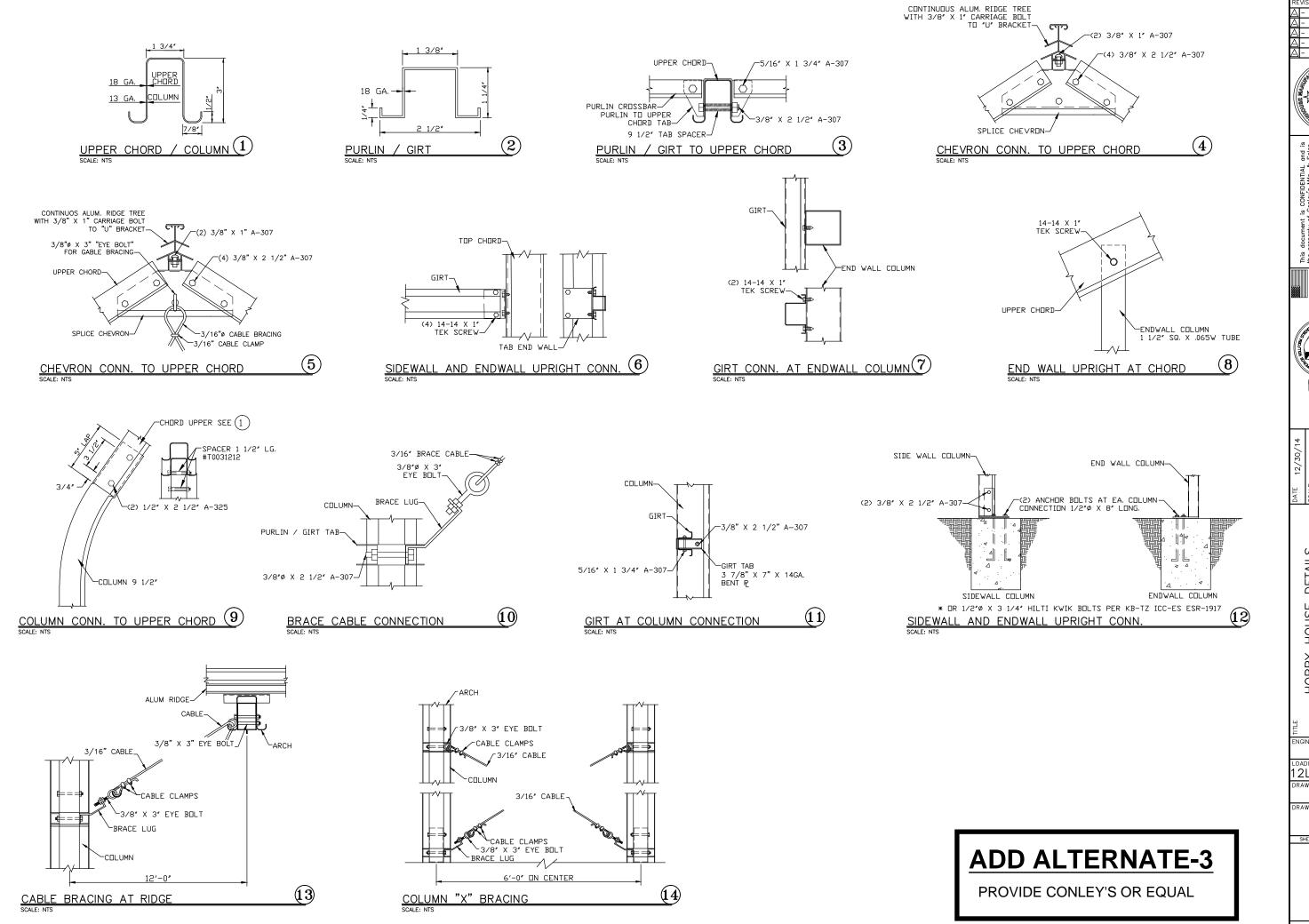
#### **CONCRETE NOTES:**

- 1. ALL CONCRETE SHALL WITHSTAND 2500 LBS. PER SQUARE INCH ULTIMATE COMPRESSIVE STRESS AT 28 DAYS.
- CONTRACTOR SHALL INFORM CONLEY'S MANUFACTURING & SALES OF ANY DISCREPANCIES, OMISSIONS, OR ERRORS ON THE PLANS BEFORE BEGINNING CONSTRUCTION, OTHERWISE, IT SHALL BE DONE AS INTENDED BY THE ENGINEER.
- 3. THE ENGINEER AND/OR CONLEY'S MANUFACTURING & SALES ASSUMES NO RESPONSIBILITY FOR CONSTRUCTION SUPERVISION OR DEVIATION FROM THESE PLANS WITHOUT PRIOR WRITTEN APPROVAL.
- 4. ALL CONSTRUCTION SHALL COMPLY WITH THE C.B.C. LATEST EDITION AS AMENDED BY THE LOCAL AGENCY HAVING JURISDICTION.
- 5. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS ON DRAWINGS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- 6. ANY ENGINEERING DESIGN PROVIDED BY OTHERS MUST BE SUBMITTED FOR REVIEW AND SHALL BEAR THE STAMP AND SIGNATURE OF A REGISTERED ENGINEER.
- 7. ALL PLUMBING, ELECTRICAL OR MISCELLANEOUS STUB OUT SHALL BE A MINIMUM OF NINE (9) INCHES CLEAR OF THE OUTSIDE CONCRETE IN ORDER TO CLEAR THE WALLS.
- 8. FOOTINGS SHALL BE CENTERED ON THE CENTERLINE OF THE COLUMN ABOVE UNLESS OTHERWISE NOTED.
- 9. ALL FOOTINGS SHALL BEAR AGAINST FIRM NATURAL UNDISTURBED SOIL OR CERTIFIED COMPACTED FILL. SOIL BEARING PRESSURE EQUAL
- 10. THE MINIMUM REQUIREMENTS AND LOCAL FROST LINE REQUIREMENTS MAY SUPERSEDE THE DESIGN CALL OUTS. CONTACT THE LOCAL BUILDING DEPARTMENT FOR MINIMUM DEPTH REQUIREMENTS.
- \* BUILDINGS WITH SNOW LOADS ARE DESIGNED AS HEATED BUILDINGS

#### STEEL NOTES:

- C.B.C. AND A.I.S.C.
- 2. ALL MACHINE BOLTS TO COMPLY WITH A.S.T.M. A-307\*. HOLES SHALL BE BOLT DIAMETER PLUS 1/16". (\* UNLESS OTHERWISE
- 3. ALL HOT ROLLED OR COLD ROLLED SHEETS AND STRIPS USED IN THE FABRICATION OF COLD FORMED STRUCTURAL MEMBERS SHALL HAVE A MINIMUM YIELD STRENGTH OF 55 K.S.I.
- 4. LIGHT GAGE COLD FORMED STRUCTURAL STEEL MEMBERS SHALL CONFORM TO A.S.T.M. SPEC. A-500 GRADE "D" (Fy=50 K.S.I.), UNLESS OTHERWISE NOTED.
- 5. ALL STRUCTURAL STEEL MEMBERS SHALL BE GALVANIZED.
- 6. ROUND TUBES SHALL CONFORM TO A.S.T.M. SPEC. A-500 GRADE "C" (Fv=46K.S.I.).
- 7. CABLES SHALL BE OF AIRCRAFT TYPE CABLE WITH THE FOLLOWING BREAKING STRENGTHS:  $1/8^{\circ}\phi = 1,700$  LBS.,  $3/16^{\circ}\phi = 4,200$  LBS., 1/4"ø = 7.000 LBS.

This the GOOTHE MANUFACTURING & HOUSE  $\overline{\mathsf{A}}$  $\overline{\mathbf{m}}$ 오 œ  $\times$ œ 2LL-100-C FM-01 SHEET 1 OF 2



DETAILS HOUSE НОВВУ LOADING 12LL—100—C FM-02 SHEET 2 OF 2

	MODICI ORATED MITO AND THE EXAMINE EET ORAT DOX TO	(O 10 DE 010	JJL5	
	Note: References are to the 2	013 edition of the	California	Building Code (CBC) unless otherwise noted.
	TEST OR SPECIAL INSPECTION	TYPE	PERED PA	
<b>M</b>	SOILS			
	1. GENERAL:	Table 1705A.	6	
X	a. Verify that:  • site has been prepared properly prior to placement of controlled fill and/or excavations for foundations,  • foundation excavations are extended to proper depth and have reached proper material, and  • materials below footings are adequate to achieve the design bearing capacity.	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. Use PI in lieu of GE if there is no GE for the site specific project.
-	2. COMPACTED FILLS:	Table 1705A.	6	
X	a. Perform qualification testing of fill materials.	Test	Lab*	* Under the supervision of the geotechnical engineer.
X	b. Verify use of proper materials and inspect lift thicknesses, placement, and compaction during placement of fill.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. Use PI in lieu of GE if there is no GE for the site specific project.
X	c. Test compaction of fill.	Test	Lab*	* Under the supervision of the geotechnical engineer.
-	4. CAST-IN-PLACE DEEP FOUNDATIONS (PIE	RS):	Table 17	05A.7
Х	a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. Use PI in lieu of GE if there is no GE for the site specific project.
X	b. Verify locations of piers.	Continuous	PI	
X	<ul> <li>c. Confirm pier diameters, plumbness, bell diameters (if applicable), lengths, and embedment into bedrock (if applicable).</li> <li>Record concrete or grout volumes.</li> </ul>	Continuous	GE*	* By geotechnical engineer or his or her qualified representative. Use PI in lieu of GE if there is no GE for the site specific project.
X	d. Confirm adequate end strata bearing capacity.	Test	Lab*	* Under the supervision of the geotechnical engineer.
X	e. Concrete piers.	Provide tests an	id inspection	ns per CONCRETE section below.
	CONCRETE	Table 1705A.3	****	
59	7. CAST IN PLACE CONCRETE			
	Material Verification and Testing:			
X	a Verify use of required design mix	Periodic	SI & PI*	* To be performed by batch-plant special inspector and project inspector.

Lab ASTM C172, ASTM C31.

Test Lab ACI 318 Section 5.6 and 1905A.1.2 (1913.3.1<sup>+</sup>). ASTM C39.

X	e. Batch plant inspection	Continuous	SI	1705A.3.2; If approved by DSA, batch plant inspection may be reduced to periodic if plant complies with 1705A.3.3, Item 1, and requires first batch inspection, weighmaster, and batch tickets.			
X	g. Inspect placement of formwork, reinforcing steel, embedded items and concrete. Inspect curing and form removal.	Continuous	P!*	* May be performed by a special inspector when specifically approved by DSA.			
+ MASONRY TMS 402-11/ACI 530-11/ASCE 5-11 Table 1.19.3							
k s	STEEL	Table 1705A.2.	1				
•	17. STRUCTURAL STEEL AND COLD-FORMED STEEL USED FOR STRUCTURAL PURPOSES						
	Material Verification:						
¥	a. Verify that all materials are appropriately marked and that:  • Mill certificates indicate material properties that comply with	Periodic	*	* By special inspector when performed off-site; by project inspector for steel shipped directly to			

X	requirements,  • Material sizes, types and grades comply with requirements.	Periodic	*	project site without welding or fabrication.
X	b. Test unidentified materials	Test	Lab	2203A.1 (2203.1 <sup>+</sup> ). ASTM A370.
X	c. Examine seam welds of structural tubes and pipes	Periodic	SI*	* DSA IR 17-3.
	Inspection:			
X	<ul> <li>d. Verify member locations, bracing and all details constructed in the field.</li> </ul>	Continuous	PI	
X	Verify stiffener locations, connection tab locations and all construction details fabricated in the shop.	Periodic	SI	
-	18. HIGH STRENGTH BOLTS:			
	Material Verification of High-Strength Bolts, Nuts, and Washe	rs:		
X	Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA approved documents.	Periodic	SI	DSA IR 17-9
X	<b>b.</b> Test high-strength bolts, nuts and washers.	Test	Lab	2213A.1 (2212.6.1 <sup>+</sup> ). ASTM F606, A370. DSA IR 17-8
	Inspection of High-Strength Bolt Installation:	WANTE -		
X	c. Bearing-type ("snug tight") connections.	Periodic	SI*	DSA IR 17-9
	19. WELDING:			DSA IR 17-3, AWS D1.1 and AWS D1.8 (AWS D1.3 for cold formed steel).
	Verification of Materials, Equipment, Welders, etc:			
X	a. Verify weld filler material identification markings per AWS     designation listed on the DSA approved documents and the WPS.	Periodic	SI	
X	<ul> <li>b. Verify weld filler material manufacturer's certificate of compliance.</li> </ul>	Periodic	SI	
X	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.
-	19.1 SHOP WELDING:			
X	a. Inspect groove, multi-pass, and fillet welds > 5/16"	Continuous	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
X	b. Inspect single-pass fillet welds ≤ 5/16"	Periodic	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.

*****		٠.	CONTRACTOR OF THE PROPERTY OF
1	Soils testing and Inspection:	Geotechnical	Verified Report - Form DSA-293

2 All Structural Testing: Laboratory Verified Report - Form DSA-291

**c.** Perform slump, temperature, and (where required)

air content tests.

Inspection:

X d. Test concrete (compression).

3 Concrete Batch Plant Inspection: Special Inspection Verified Report - Form DSA-292 4 HS Bolt Installation Inspection: Special Inspection Verified Report - Form DSA-292

KEY to Columns

+ WOOD

+ OTHER

1 Type -	2 Performed By -
Continuous – Indicates that a continuous special inspection is required	GE – Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or he authorized representative
Periodic - Indicates that a periodic special inspection is required	Lab – Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA laboratory Evaluation and Acceptance (LEA) Program. See section 4-335, 2013 CCR Title 24, Part 1.
Test - Indicates that a test is required	PI – Indicates that the special inspection is to be performed by the project inspector
	SI – Indicates that the special inspection is to be performed by a special inspector

### Shelter Options

	Available Options								
Clarita - Carla			Eave Height				"V" plugs		
Shelter Style				, , , , , , , , , , , , , , , , , , , ,	Recessed Anchor	Roof	for bird		
	Length	Width	Min.	Max.	Bolts./Footings	Downspouts	control.		
20' Meramec	30¹, 42¹		7'	12'	Y/N	Y/N	Y/N		
30' Meramec	42', 54'		7'	12'	Y/N	Y/N	Y/N		
16' Navajo			7'	12'	Y/N	Y/N	Y/N		
20' Navajo			7'	12'	Y/N	Y/N	Y/N		
24' Navajo			7'	12'	Y/N	Y/N	Y/N		
30' Navajo			7'	12'	Y/N	Y/N	Y/N		
36' Navajo			7'	12'	Y/N	Y/N	Y/N		
40' Navajo			7'	12'	Y/N	Y/N	Y/N		
Illini	13' to 58' in 9' increments.	10', 16'	7'-6"	12'	Y/N	Y/N	Y/N		
7' Shawnee	9'-8" to 55'-8" in 7'-8" increments.		7'-6"	12'	Y/N	Y/N	Y/N		

DEAD AND LIVE LOAD (L)	ESCRIPTION	DESIGN VALUES
S PSF	DEAD AND LIVE LOADS	1
ALLOWABLE SOIL PRESSURE	ROOF LIVE LOAD (Lr)	20 PSF
DL	ROOF DEAD LOAD (D)	5 PSF
DL-Lr	ALLOWABLE SOIL PRESSURE	W.C.E. W.
DL+SNOW LOAD	DL	1000 PSF
ROOF SNOW LOAD   Pay   22 PSF   SOUND SNOW LOAD   Pay   20 PSF   20 PSF   3NOW EXPOSURE FACTOR (Ce)   1.1	DL+Lr	1000 PSF
SCOUND SNOWLOAD (Pg)   22 PSF	DL+SNOW	1000 PSF
SLOPED ROOF SNOW LOAD (Ps)   20 PSF	ROOF SNOW LOAD	
SNOW EXPOSURE FACTOR (Ce)   1.1	GROUND SNOW LOAD (Pg)	22 PSF
SNOW IMPORTANCE FACTOR (I)	SLOPED ROOF SNOW LOAD (Ps)	20 PSF
THERMAL FACTOR (CI)	SNOW EXPOSURE FACTOR (Ce)	1.1
FLOOD DESIGN  FLOOD HAZARD AREA  NO  WIND DESIGN  ULTIMATE DESIGN WIND SPEED (Vult)  WIND EXPOSURE FACTOR  TOPOGRAPHIC FACTOR (Kzt)  ASCE 7-10 WIND ANALYSIS METHOD  CHAPTER 27 DIRECTIONAL PROCEDURE  VELOCITY PRESSURE EXPOSURE COEFFICIENT (Kz)  NET PRESSURE COEFFICIENT  WIND DIRECTIONALITY FACTOR (Kd)  WIND VELOCITY PRESSURE (qh)  31.3 PSF  SEISMIC DESIGN  ASCE 7-10 ANALYSIS PROCEDURE  SEISMIC DESIGN  ASCE 7-10 ANALYSIS PROCEDURE  SEISMIC DESIGN CATEGORY  E  SEISMIC IMPORTANCE FACTOR  1.0  SITE CLASS  D  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE  ACCELERATION AT SHORT PERIOD (Ss)  SHORT PERIOD SITE COEFFICIENT (Fa)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE  ACCELERATION AT SHORT PERIOD (Ss)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE  ACCELERATION AT 1 SECOND PERIOD (S·)  1.5  DESIGN, 5% DAMPED, SPECTRAL RESPONSE  ACCELERATION AT 1 SECOND PERIOD (S·)  1.5  DESIGN, 5% DAMPED, SPECTRAL RESPONSE  ACCELERATION AT 1 SECOND PERIOD (S·)  1.5  DESIGN, 5% DAMPED, SPECTRAL RESPONSE  ACCELERATION AT 1 SECOND PERIOD (S·)  1.5  DESIGN, 5% DAMPED, SPECTRAL RESPONSE  ACCELERATION AT 1 SECOND PERIOD (S·)  1.5	SNOW IMPORTANCE FACTOR (I)	1.0
FLOOD HAZARD AREA  WIND DESIGN  ULTIMATE DESIGN WIND SPEED (Vult)  WIND EXPOSURE FACTOR  TOPOGRAPHIC FACTOR (Kzt)  ASCE 7-10 WIND ANALYSIS METHOD  CHAPTER 27 DIRECTIONAL PROCEDURE  VELOCITY PRESSURE EXPOSURE COEFFICIENT (Kz)  WIND DIRECTIONALITY FACTOR (Kd)  WIND VELOCITY PRESSURE (qh)  ASCE 7-10 ANALYSIS PROCEDURE  SEISMIC DESIGN  ASCE 7-10 ANALYSIS PROCEDURE  SEISMIC DESIGN  ASCE 7-10 ANALYSIS PROCEDURE  SEISMIC MPORTANCE FACTOR  SITE CLASS  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sa)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sa)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sa)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sa)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sa)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sa)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sa)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sa)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Si)  1.3  LONG PERIOD SITE COEFFICIENT (FV)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Si)  1.3	THERMAL FACTOR (Ct)	1.2
WIND DESIGN  ULTIMATE DESIGN WIND SPEED (Vult)  UND EXPOSURE FACTOR  TOPOGRAPHIC FACTOR (Kzt)  ASCE 7-10 WIND ANALYSIS METHOD  VELOCITY PRESSURE EXPOSURE COEFFICIENT (Kzt)  NET PRESSURE COEFFICIENT  WIND DIRECTIONALITY FACTOR (Kdt)  WIND DIRECTIONALITY FACTOR (Kdt)  WIND VELOCITY PRESSURE (qht)  SEISMIC DESIGN  ASCE 7-10 ANALYSIS PROCEDURE  SEISMIC DESIGN CATEGORY  SEISMIC MPORTANCE FACTOR  SITE CLASS  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Scs)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Scs)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Scs)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Scs)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Scs)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Scs)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Scs)  1.3  LONG PERIOD SITE COEFFICIENT (FV)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Scs)  1.3	FLOOD DESIGN	
ULTIMATE DESIGN WIND SPEED (Vuit)	FLOOD HAZARD AREA	NO
ULTIMATE DESIGN WIND SPEED (Vuit)  WIND EXPOSURE FACTOR  TOPOGRAPHIC FACTOR (Kzt)  1.0  ASCE 7-10 WIND ANALYSIS METHOD  VELOCITY PRESSURE EXPOSURE COEFFICIENT (Kz)  NET PRESSURE COEFFICIENT  WIND DIRECTIONALITY FACTOR (Kd)  WIND VELOCITY PRESSURE (qh)  31.3 PSF  SEISMIC DESIGN  ASCE 7-10 ANALYSIS PROCEDURE  SEISMIC DESIGN  ASCE 7-10 ANALYSIS PROCEDURE  SEISMIC DESIGN CATEGORY  E  SEISMIC IMPORTANCE FACTOR  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE  ACCELERATION AT SHORT PERIOD (Sa)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE  ACCELERATION AT SHORT PERIOD (Sac)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE  ACCELERATION AT SHORT PERIOD (Sac)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE  ACCELERATION AT SHORT PERIOD (Sac)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE  ACCELERATION AT SHORT PERIOD (Sac)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE  ACCELERATION AT SHORT PERIOD (Sac)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE  ACCELERATION AT SECOND PERIOD (Sac)  1.3  LONG PERIOD SITE COEFFICIENT (FV)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE  ACCELERATION AT 1 SECOND PERIOD (Sac)  1.3	WIND DESIGN	
WIND EXPOSURE FACTOR  TOPOGRAPHIC FACTOR ( <i>Kzt</i> )  1.0  ASCE 7-10 WIND ANALYSIS METHOD  CHAPTER 27 DIRECTIONAL PROCEDURE  VELOCITY PRESSURE EXPOSURE COEFFICIENT ( <i>Kz</i> )  NET PRESSURE COEFFICIENT  WIND DIRECTIONALITY FACTOR ( <i>Kd</i> )  WIND VELOCITY PRESSURE (qh)  31.3 PSF  SEISMIC DESIGN  ASCE 7-10 ANALYSIS PROCEDURE  SEISMIC DESIGN CATEGORY  E  SEISMIC IMPORTANCE FACTOR  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sa)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sa)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sa)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sa)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sa)  LONG PERIOD SITE COEFFICIENT (Fv)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (So)  1.3  LONG PERIOD SITE COEFFICIENT (Fv)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Sor)  1.3	VICTOR CONTROL OF THE	130 MPH
TOPOGRAPHIC FACTOR (Kzt)  ASCE 7-10 WIND ANALYSIS METHOD  CHAPTER 27 DIRECTIONAL PROCEDURE  VELOCITY PRESSURE EXPOSURE COEFFICIENT (Kz)  NET PRESSURE COEFFICIENT  WIND DIRECTIONALITY FACTOR (Kd)  WIND VELOCITY PRESSURE (qh)  SEISMIC DESIGN  ASCE 7-10 ANALYSIS PROCEDURE  SEISMIC DESIGN  ASCE 7-10 ANALYSIS PROCEDURE  SEISMIC DESIGN CATEGORY  E  SEISMIC IMPORTANCE FACTOR  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sa)  SHORT PERIOD SITE COEFFICIENT (Fa)  DESIGN MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sa)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sa)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sa)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SECOND PERIOD (Sa)  LONG PERIOD SITE COEFFICIENT (Fv)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Sa)  1.3		
ASCE 7-10 WIND ANALYSIS METHOD  VELOCITY PRESSURE EXPOSURE COEFFICIENT (Kz)  NET PRESSURE COEFFICIENT  WIND DIRECTIONALITY FACTOR (Kd)  WIND VELOCITY PRESSURE (qh)  SEISMIC DESIGN  ASCE 7-10 ANALYSIS PROCEDURE  SEISMIC DESIGN  ASCE 7-10 ANALYSIS PROCEDURE  SEISMIC DESIGN CATEGORY  SEISMIC IMPORTANCE FACTOR  SITE CLASS  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Ss)  SHORT PERIOD MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Scs)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Scs)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Scs)  LONG PERIOD SITE COEFFICIENT (Fv)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (So·)  1.3	. Lance was	
VELOCITY PRESSURE EXPOSURE COEFFICIENT (Kz)  NET PRESSURE COEFFICIENT  WIND DIRECTIONALITY FACTOR (Kd)  WIND VELOCITY PRESSURE (qh)  SEISMIC DESIGN  ASCE 7-10 ANALYSIS PROCEDURE  SEISMIC DESIGN CATEGORY  SEISMIC IMPORTANCE FACTOR  SITE CLASS  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (St)  LONG PERIOD SITE COEFFICIENT (FV)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (So1)  1.3	10.00.00.10.00.00.00.00.00	
NET PRESSURE COEFFICIENT  WIND DIRECTIONALITY FACTOR (Kd)  WIND VELOCITY PRESSURE (qh)  SEISMIC DESIGN  ASCE 7-10 ANALYSIS PROCEDURE  SEISMIC DESIGN CATEGORY  SEISMIC IMPORTANCE FACTOR  SITE CLASS  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (So)  DESIGN MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (So)  LONG PERIOD SITE COEFFICIENT (Fv)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (So)  LONG PERIOD SITE COEFFICIENT (Fv)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Soi)  1.3	ASCE 7-10 WIND ANALYSIS METHOD	CHAPTER 27 DIRECTIONAL PROCEDURE
WIND DIRECTIONALITY FACTOR (kd)  WIND VELOCITY PRESSURE (qh)  SEISMIC DESIGN  ASCE 7-10 ANALYSIS PROCEDURE  SEISMIC DESIGN CATEGORY  SEISMIC IMPORTANCE FACTOR  SITE CLASS  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  DESIGN MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (S1)  LONG PERIOD SITE COEFFICIENT (Fv)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (S1)  LONG PERIOD SITE COEFFICIENT (Fv)  1.5	VELOCITY PRESSURE EXPOSURE COEFFICIENT (Kz)	0.85
WIND VELOCITY PRESSURE (qh)  SEISMIC DESIGN  ASCE 7-10 ANALYSIS PROCEDURE  SEISMIC DESIGN CATEGORY  SEISMIC IMPORTANCE FACTOR  SITE CLASS  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (So)  SHORT PERIOD SITE COEFFICIENT (Fa)  DESIGN MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  1.0  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (St)  LONG PERIOD SITE COEFFICIENT (Fv)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (St)  1.3	NET PRESSURE COEFFICIENT	VARIES, SEE CALCULATIONS
SEISMIC DESIGN  ASCE 7-10 ANALYSIS PROCEDURE SEISMIC DESIGN CATEGORY E SEISMIC IMPORTANCE FACTOR 1.0 SITE CLASS D MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Ss) SHORT PERIOD SITE COEFFICIENT (Fa) DESIGN MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos) 1.0  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos) 1.0  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Sc) 1.3  LONG PERIOD SITE COEFFICIENT (Fv) 1.5  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Sc) 1.3	WIND DIRECTIONALITY FACTOR (Kd)	0.85
ASCE 7-10 ANALYSIS PROCEDURE  SEISMIC DESIGN CATEGORY  E  SEISMIC IMPORTANCE FACTOR  SITE CLASS  D  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Ss)  SHORT PERIOD SITE COEFFICIENT (Fa)  DESIGN MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  1.0  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  1.0  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Sr)  LONG PERIOD SITE COEFFICIENT (Fv)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Sr)  1.3	WIND VELOCITY PRESSURE (qh)	31.3 PSF
SEISMIC IMPORTANCE FACTOR  SITE CLASS  D  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Ss)  SHORT PERIOD SITE COEFFICIENT (Fa)  DESIGN MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  1.0  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (St)  LONG PERIOD SITE COEFFICIENT (Fv)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Sot)  1.3	SEISMIC DESIGN	
SEISMIC IMPORTANCE FACTOR  SITE CLASS  D  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Ss)  SHORT PERIOD SITE COEFFICIENT (Fa)  DESIGN MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  1.0  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (St)  LONG PERIOD SITE COEFFICIENT (Fv)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Sot)  1.3	ASCE 7-10 ANALYSIS PROCEDURE	SECTION 12.8 EQUIVALENT LATERAL FORCE PROCEDURE
SITE CLASS  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Ss)  SHORT PERIOD SITE COEFFICIENT (Fa)  DESIGN MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sps)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (St)  LONG PERIOD SITE COEFFICIENT (Fv)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Spt)  1.3  LONG PERIOD SITE COEFFICIENT (Fv)  1.5  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Spt)  1.3		
MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Ss)  SHORT PERIOD SITE COEFFICIENT (Fa)  DESIGN MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sps)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (S1)  LONG PERIOD SITE COEFFICIENT (Fv)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Sps)  1.3  LONG PERIOD SITE COEFFICIENT (Fv)  1.5  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Sps)  1.3	SEISMIC IMPORTANCE FACTOR	1.0
ACCELERATION AT SHORT PERIOD (Ss)  SHORT PERIOD SITE COEFFICIENT (Fa)  DESIGN MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (SDS)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (St)  LONG PERIOD SITE COEFFICIENT (Fv)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (SD1)  1.3  1.3	SITE CLASS	D
DESIGN MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD (Sos)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (S1)  LONG PERIOD SITE COEFFICIENT (Fv)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Sb1)  1.3		
ACCELERATION AT SHORT PERIOD (SDS)  MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (S1)  LONG PERIOD SITE COEFFICIENT (FV)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (SD1)  1.3	SHORT PERIOD SITE COEFFICIENT (Fa)	1.0
ACCELERATION AT 1 SECOND PERIOD (S1)  LONG PERIOD SITE COEFFICIENT (Fv)  DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Sb1)  1.3		1.0
DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Sb1)  1.3		1.3
ACCELERATION AT 1 SECOND PERIOD (Sp1)	LONG PERIOD SITE COEFFICIENT (Fv)	1.5
HORIZONTAL OR VERTICAL IRREGULARITY TYPES NONE		1,3 yes
The second secon	HORIZONTAL OR VERTICAL IRREGULARITY TYPES	NONE

BU	ILDING DATA	
CONSTRUCTION CLASSIFICATION	TYPE II-B	_
OCCUPANCY CLASSIFICATION	A-2	
RISK CATEGORY	II	
NUMBER OF STORIES	1	

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☐ MT30.0 30' MERAMEC SHELTER DESIGN NOTES, EXAMPLE FORM DSA 103 ☐ MT30.1 30' MERAMEC SHELTER PLANS, SECTIONS AND DETAILS

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### **GENERAL NOTES**

SHELTER DESIGN A. THE STRUCTURAL DESIGN OF THE COMPONENTS AND CONNECTIONS OF THIS SHELTER ARE

REQUIRED EAVE HEIGHT FOR EACH SITE SHALL BE DETERMINED BY OWNER.

C. THIS SHELTER HAS BEEN DESIGNED AS AN OPEN STRUCTURE. THE ADDITION OF ANY ENCLOSURE DIRECTLY ATTACHED TO THE SHELTER, SUCH AS WALLS, INSECT MESH, OR SHADE SCREENS, SHALL BE PROHIBITED AS INCREASED WIND FORCES MAY RESULT.

DESIGN AND CONSTRUCTION STANDARDS A. THE DESIGN OF THIS STRUCTURE IS IN CONFORMANCE WITH THE FOLLOWING STANDARDS AND ALL PHASES OF

2013 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR) (2012 INTERNATIONAL BUILDING CODE WITH 2013 CALIFORNIA AMENDMENTS)

(2011 NATIONAL ELECTRICAL CODE WITH 2013 CALIFORNIA AMENDMENTS) 4. 2013 CALIFORNIA MECHANICAL CODE (CMC) ... ... (PART 4, TITLE 24, CCR)

(2012 UNIFORM PLUMBING CODE WITH 2013 CALIFORNIA AMENDMENTS) . (PART 6, TITLE 24, CCR)

. (PART 9, TITLE 24, CCR) (2012 INTERNATIONAL FIRE CODE WITH 2013 CALIFORNIA AMENDMENTS)

8. 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE .....(PART 11, TITLE 24, CCR)

11. NFPA 72 - 2013

A. CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY PART 1, TITLE 24, C.C.R.

A. THE FOUNDATION SHALL REST ON SOUND SOIL THAT IS FREE OF ORGANIC AND DELETERIOUS MATERIALS AND CAPABLE OF SUPPORTING 1000 PSF VERTICAL BEARING PRESSURE.

B. FOR LATERAL LOADING, THE FOUNDATION HAS BEEN DESIGNED TO THE MINIMUM LATERAL BEARING VALUE IN CBC

C. FOUNDATION DESIGN SHOWN IS BASED ON SOIL CONDITIONS GIVEN IN NOTES A AND B, ABOVE, OWNER SHALL VERIFY ACTUAL SOIL CONDITIONS AT EACH JOB SITE AND ANY REQUIRED ADJUSTMENTS TO THE FOOTING DESIGN SHALL BE DESIGNED BY OTHERS.

CONCRETE

GRADE 40 FOR #4 AND SMALLER BARS AND GRADE 60 FOR BARS LARGER THAN #4. MINIMUM CONCRETE CLEAR COVER FOR REINFORCING BARS SHALL BE 3".

D. A CONCRETE MIX DESIGN IN ACCORDANCE WITH CBC SECTION CHAPTER 19A SHALL BE PERFORMED AND STAMPED BY A CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA, THE CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD PRIOR TO CONSTRUCTION.

E. THE MIX DESIGN SHALL MEET THE CRITERIA HEREIN AND SHALL BE PROPER FOR LOCAL CONDITIONS INCLUDING, BUT NOT LIMITED TO, FREEZING AND THAWING EXPOSURE, CHEMICAL AND SALT EXPOSURE, AND SOIL CORROSIVITY WHERE SUCH PROBLEMS EXIST.

STRENGTH OF 7000 PSI AT 28 DAYS AND HAVING THE FOLLOWING CHARACTERISTICS: NO SHRINKAGE AFTER PLACEMENT OR EXPANSION AFTER SET (ASTM C1090), ONE DAY COMPRESSIVE STRENGTH OF AT LEAST 3000 PSI (ASTM C109) AND INITIAL SET TIME OF NOT LESS THAN 45 MINUTES (ASTM C191). PROVIDE "HI-FLOW GROUT" OR "DRY

A. STEEL PLATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36.

ALL STRUCTURAL STEEL SHALL BE IDENTIFIED BY MILL CERTIFICATE. HIGH STRENGTH BOLTS (HSB) SHALL BE GALVANIZED AND SHALL CONFORM TO THE REQUIRMENTS OF ASTM A325-N. HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION PLUS AN

WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY'S SPECIFICATION FOR THE MATERIAL BEING WELDED. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.

G. WELD ELECTRODES SHALL BE E70XX AND SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.8-6.3 FOR DEMAND CRITICAL WELDS.

STEEL FRAMING SHALL BE COATED WITH ANTI-GRAFFITI POLYESTER TGIC POWDER COAT FINISH MEETING AAMA

SHOP DRAWINGS OF ALL STRUCTURAL STEEL SHALL BE SUBMITTED TO HYYTINEN ENGINEERING FOR APPROVAL PRIOR TO FABRICATION.

ANCHOR BOLTS SHALL BE EQUAL TO THE BOLT DIAMETER PLUS 1/8". ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36 AND SHALL BE HOT DIP GALVANIZED.

A. INTERLOCKING SEAM ALUMINUM ROOF DECK SHALL BE ROLL FORMED FROM ALUMINUM ALLOY 3004-H151 AND

B. ALUMINUM ROOF DECK SHALL BE COATED WITH HEAT REFLECTIVE BASF ULTRA-COOL COATING OR APPROVED

C. EXTRUDED ALUMINUM RIDGE CAP SHALL BE FABRICATED FROM ALUMINUM ALLOY 6105-T5 AND SHALL CONFORM TO THE REQUIREMENTS SHOWN ON THE DRAWINGS.

D. EXTRUDED ALUMINUM FASCIA SHALL BE FABRICATED FROM ALUMINUM ALLOY 6063-T5. EXTRUDED ALUMINUM GUTTER SHAL BE FABRICATED FROM ALUMINUM ALLOY 6105-T5. ALUMINUM COMPONENTS SHALL CONFORM TO

THE REQUIREMENTS SHOWN ON THE DRAWINGS. TGIC POWDER COAT FINISH MEETING AAMA 2604-02 SPECIFICATIONS.

ATTACHING TO ALUMINUM SHALL BE 8-18 HEX WASHER HEAD (HWH) #2 POINT SCREWS. ALL SCREWS SHALL BE STAINLESS STEEL OR COATED WITH ZINC.

D. THE MANUFACTURER SHALL PROVIDE A SCREW CERTIFICATION LETTER STATING THAT SCREWS PROVIDED MATCH THE SIZE AND TYPE SPECIFIED HEREIN. THE CERTIFICATION LETTER SHALL BE SUBMITTED TO THE

SHOP FABRICATION AND FIELD ASSEMBLY A. ALL STRUCTURAL STEEL AND ALUMINUM COMPONENTS SHALL BE SHOP FABRICATED SO THAT FIELD ASSEMBLY OF CONNECTIONS CAN BE PERFORMED USING ONLY BOLTING AND SCREW PLACEMENT.

2, TITLE 24, C.C.R.) AND THE DIVISION OF THE STATE ARCHITECT.

A. AN AUTOMATIC FIRE PROTECTION SYSTEM MAY BE REQUIRED FOR THIS BUILDING DEPENDING ON SITE SPECIFIC

## NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

PER TITLE 24, PART 1, SECTION 4-316(e) OF THE CALIFORNIA CODE OF REGULATIONS. THIS NOTICE SHALL BE GIVEN TO DSA PRIOR TO THE APPROVAL OF PLANS AND SPECIFICATIONS.

IN GENERAL RESPONSIBLE CHARGE, UNLESS NOTED OTHERWISE

3. FOR THE SITE SPECIFIC PROJECT, ROGER HYYTINEN'S RESPONSIBILITY IS LIMITED TO THE PREPARATION OF PLANS AND SPECIFICATIONS FOR THE SHELTER(S) OF THIS PC

STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM ROGER HYYTINEN'S RESPONSIBILITY FOR THE SITE SPECIFIC PROJECT.

DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, APPROVAL OF INSPECTOR QUALIFICATIONS, STRUCTURAL OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF THE VERIFIED REPORT FOR COMPLETED WORK.

ROGER HYYTINEN WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE SHELTER(S) OF THIS PC WHICH ARISE DURING PLAN CHECK AND CONSTRUCTION.

IN THE EVENT THAT ROGER HYYTINEN IS REQUIRED TO PROVIDE STRUCTURAL OBSERVATION OF CONSTRUCTION, HE SHALL BE NOTIFIED IN WRITING PRIOR TO THIS REQUIREMENT BEING MADE, ALSO, HIS ANTICIPATED ADDITIONAL FEES FOR THIS ADDITIONAL WORK SHALL BE PAID IN ADVANCE, PRIOR TO ANY STRUCTURAL OBSERVATION OR CONSTRUCTION SERVICES BEING PERFORMED.

SUFFICIENT FOR EAVE HEIGHTS RANGING FROM 7' UP TO 12' TALL

CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING STANDARDS.

1. 2013 CALIFORNIA ADMINISTRATIVE CODE (CAC) ...... (PART 1, TITLE 24, CCR)

2013 CALIFORNIA ELECTRICAL CODE ...

(2012 UNIFORM MECHANICAL CODE WITH 2013 CALIFORNIA AMENDMENTS) 2013 CALIFORNIA PLUMBING CODE (CPC) ... .. (PART 5, TITLE 24, CCR)

2013 CALIFORNIA ENERGY CODE ... 2013 CALIFORNIA FIRE CODE (CFC) ...

9. 2013 CALIFORNIA REFERENCED STANDARDS CODE ......(PART 12, TITLE 24, CCR) 10. NFPA 13 - 2013

CONSTRUCTION CHANGES

IV. FOUNDATION

TABLE 1806A.2. THIS IS 100 PSF/FT LATERAL BEARING.

A. COMPRESSION STRENGTH OF ALL REINFORCED CONCRETE SHALL NOT BE LESS THAN 4000 PSI AT 28 DAYS. B. REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF MINIMUM ASTM A615

F. NON-SHRINK GROUT OR DRY PACK SHALL BE A PREMIXED, NONMETALLIC FORMULA WITH A MINIMUM COMPRESSIVE

PACK GROUT" BY EUCLID, OR AN APPROVED EQUAL.

B. HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500. GRADE B.

ADDITIONAL HALF TURN. E ALL HIGH STRENGTH BOLTS SHALL HAVE CERTIFICATION

H. ALL WELDING SHALL BE APPROVED BY AN AWS CERTIFIED INSPECTOR.

K. ALL BOLT HOLE DIAMETERS SHALL BE EQUAL TO THE BOLT DIAMETER PLUS 1/16" U.N.O. BOLT HOLES FOR

SHALL CONFORM TO THE DECK PROFILE SHOWN ON THE DRAWINGS.

E. EXTRUDED ALUMINUM RIDGE CAP, GUTTER, AND FASCIA SHALL BE COATED WITH ANTI-GRAFFITI POLYESTER

A. SCREWS SHALL BE HILTI KWIK-PRO SELF DRILLING SCREWS WITH BOND SEAL WASHERS PER ICC ESR-2196 OR

B. SCREWS ATTACHING TO STEEL SHALL BE 12-24 HEX WASHER HEAD (HWH) #5 POINT SCREWS. SCREWS

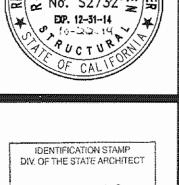
INSPECTOR OF RECORD PRIOR TO INSTALLATION.

A. THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PERFORM INSPECTION OF THE CONSTRUCTION OF THIS PC IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17A OF THE 2013 CALIFORNIA BUILDING CODE (PART

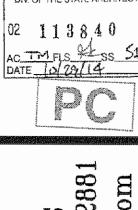
REQUIREMENTS. WHERE REQUIRED, THE AUTOMATIC FIRE PROTECTION SYSTEM SHALL BE DESIGNED BY OTHERS. B. THE DESIGN OF THIS SHELTER IS CAPABLE OF SUPPORTING THE WEIGHT OF A FIRE SPRINKLER SYSTEM (1.5 PSF). C. THE METAL ROOFING COMPLIES WITH FIRE CLASSIFICATION B. THIS SHELTER HAS NOT BEEN DESIGNED FOR PLACEMENT WITHIN ANY FIRE HAZARD SEVERITY ZONE.

FOR THE SITE SPECIFIC PROJECT, ROGER HYYTINEN IS NOT THE DESIGN PROFESSIONAL

ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL BE



1 Soger / 1/1



10/21/14 AS NOTED 44-14 DRAWING NO G.1

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ed landers, d'horris a barre e		MDIE	EODI	W DSA 103
	NOTE: THE EXAMPLE FORM DSA-103 SHOWN ON THIS SHE FUTURE PROJECT SPECIFIC FORM DSA-103'S. A FORM DS INCORPORATED INTO AND THE EXAMPLE FORM DSA-103	EET IS FOR ILL	USTRATI	ION PURPOSES ONLY TO ASSIST IN THE COMPLETION OF ETED FOR EACH APPLICATION THAT THIS PC IS BEING
	Note: References are to the 2	013 edition of the	California l	Building Code (CBC) unless otherwise noted.
/«	TEST OR SPECIAL INSPECTION	<b>TYP</b> É	PERCH	
***	SOILS	<del></del>	•	
	1. GENERAL:	Table 1705A.	6	
X	<ul> <li>a. Verify that:</li> <li>site has been prepared properly prior to placement of controlled fill and/or excavations for foundations,</li> <li>foundation excavations are extended to proper depth and have reached proper material, and</li> <li>materials below footings are adequate to achieve the design bearing capacity.</li> </ul>	Periodic	GE*	* By geotechnical engineer or his or her qualified representative. Use PI in lieu of GE if there is no GE for the site specific project.
44	2. COMPACTED FILLS:	Table 1705A.	<u> </u>	
X	a. Perform qualification testing of fill materials.	Test	Lab*	* Under the supervision of the geotechnical engineer.  * By geotechnical engineer or his or her qualified representative. Use PI in lieu of GE if there is no
X	b. Verify use of proper materials and inspect lift thicknesses, placement, and compaction during placement of fill.	Continuous	GE*	GE for the site specific project.
X	c. Test compaction of fill.	Test	Lab*	* Under the supervision of the geotechnical engineer.
-	CAST-IN-PLACE DEEP FOUNDATIONS (PIE     a. Inspect drilling operations and maintain complete and accurate		Table 170	* By geotechnical engineer or his or her qualified representative. Use PI in lieu of GE if there is no
X	records for each pier.	Continuous	GE*	GE for the site specific project.
X	b. Verify locations of piers.     c. Confirm pier diameters, plumbness, bell diameters (if applicable), lengths, and embedment into bedrock (if applicable).	Continuous	PI GE*	* By geotechnical engineer or his or her qualified representative. Use PI in lieu of GE if there is no GE for the site specific project.
X	Record concrete or grout volumes.  d. Confirm adequate end strata bearing capacity.	Test	Lab*	* Under the supervision of the geotechnical engineer.
X	e. Concrete piers.	Provide tests an	d inspection	ns per CONCRETE section below.
225	CONCRETE	Table 1705A.3		
-	7. CAST IN PLACE CONCRETE			
<b>X</b>	Material Verification and Testing:  a. Verify use of required design mix.	Periodic	SI & PI*	* To be performed by batch-plant special inspector and project inspector.
W.	c. Perform slump, temperature, and (where required)	Test	Lab	ASTM C172, ASTM C31.
X	air content tests.  d. Test concrete (compression).	Test	Lab	ACI 318 Section 5.6 and 1905A.1.2 (1913.3.1 <sup>+</sup> ). ASTM C39.
*7	Inspection:  e. Batch plant inspection	Continuous	SI	1705A.3.2; If approved by DSA, batch plant inspection may be reduced to periodic if plant complies with 1705A.3.3, Item 1, and requires first batch inspection, weighmaster, and batch tickets.
X	g. Inspect placement of formwork, reinforcing steel, embedded	Cantinuous	PI*	* May be performed by a special inspector when specifically approved by DSA.
X	items and concrete. Inspect curing and form removal.	Continuous		
	MASONRY			SCE 5-11 Table 1.19.3
PS.	STEEL	Table 1705A.2.		OTDUOTUDA I DUDDOOFO
-	17. STRUCTURAL STEEL AND COLD-FORMED Material Verification:	SIEELUSE	DFOR	STRUCTURAL PURPOSES
X	a. Verify that all materials are appropriately marked and that:     • Mill certificates indicate material properties that comply with requirements,	Periodic	*	* By special inspector when performed off-site; by project inspector for steel shipped directly to project site without welding or fabrication.
X	Material sizes, types and grades comply with requirements.      D. Test unidentified materials	Test	Lab	<b>2203A.1</b> (2203.1 <sup>+</sup> ). ASTM A370.
X	c. Examine seam welds of structural tubes and pipes	Periodic	SI*	* DSA IR 17-3.
X	d. Verify member locations, bracing and all details constructed in	Continuous	Pl	
	the field.  e. Verify stiffener locations, connection tab locations and all	Periodic	SI	
X	construction details fabricated in the shop.  18. HIGH STRENGTH BOLTS:	. 0,10010		<u> </u>
	Material Verification of High-Strength Bolts, Nuts, and Wash	ers:		
X	Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA approved documents.	Periodic	SI	DSA IR 17-9
X	b. Test high-strength bolts, nuts and washers.	Test	Lab	<b>2213A.1</b> (2212.6.1 <sup>+</sup> ). ASTM F606, A370. DSA IR 17-8
X	Inspection of High-Strength Bolt Installation:  c. Bearing-type ("snug tight") connections.	Periodic	SI*	DSA IR 17-9
1	19. WELDING:			DSA IR 17-3, AWS D1.1 and AWS D1.8 (AWS D1.3 for cold formed steel).
	Verification of Materials, Equipment, Welders, etc:		3-03-00-00-00-00-00-00-00-00-00-00-00-00	
X	<ul> <li>a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.</li> </ul>	Periodic	SI	

Periodic

Periodic

**SI** DSA IR 17-3.

Performed By -

Continuous SI Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.

Periodic SI Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.

GE - Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her

Lab - Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA

laboratory Evaluation and Acceptance (LEA) Program. See section 4-335, 2013 CCR Title 24, Part 1.

PI - Indicates that the special inspection is to be performed by the project inspector

SI - Indicates that the special inspection is to be performed by a special inspector

**b.** Verify weld filler material manufacturer's certificate of

1 Soils testing and Inspection: Geotechnical Verified Report - Form DSA-293

3 Concrete Batch Plant Inspection: Special Inspection Verified Report - Form DSA-292

4 HS Bolt Installation Inspection: Special Inspection Verified Report - Form DSA-292

2 All Structural Testing: Laboratory Verified Report - Form DSA-291

Continuous – Indicates that a continuous special inspection is required

Periodic – Indicates that a periodic special inspection is required

X c. Verify WPS, welder qualifications and equipment.

19.1 SHOP WELDING: **a.** Inspect groove, multi-pass, and fillet welds > 5/16"

X b. Inspect single-pass fillet welds ≤ 5/16

+ WOOD

+ OTHER

KEY to Columns

**Fest** – Indicates that a test is required

BUILDING DATA				
CONSTRUCTION CLASSIFICATION	TYPE II-B	****		
OCCUPANCY CLASSIFICATION	A-2			
RISK CATEGORY	11			
NUMBER OF STORIES	1			
MINIMUM SEISMIC SEPARATION	3"			
BUILDING AREA	900 SF			

2013 CBC PC STRUCTURAL DESIGN NOTES

DESCRIPTION

DL

DL+Lr

DL+SNOW

ROOF SNOW LOAD

GROUND SNOW LOAD (Pg)

THERMAL FACTOR (Ct)

FLOOD HAZARD AREA

WIND EXPOSURE FACTOR TOPOGRAPHIC FACTOR (Kzt)

FLOOD DESIGN

WIND DESIGN

SLOPED ROOF SNOW LOAD (Ps)

SNOW EXPOSURE FACTOR (Ce)

SNOW IMPORTANCE FACTOR (I)

ULTIMATE DESIGN WIND SPEED (Vult)

ASCE 7-10 WIND ANALYSIS METHOD

WIND DIRECTIONALITY FACTOR (Kd)

LATERAL FORCE RESISTING SYSTEM

SEISMIC RESPONSE COEFFICIENT (Cs)

RESPONSE MODIFICATION FACTOR (R)

SYSTEM OVERSTRENGTH FACTOR (Ωo)

ACCELERATION AT SHORT PERIOD (Ss)

SHORT PERIOD SITE COEFFICIENT (Fa)

ACCELERATION AT SHORT PERIOD (SDS)

LONG PERIOD SITE COEFFICIENT (Fv)

ACCELERATION AT 1 SECOND PERIOD (S1)

DESIGN, 5% DAMPED, SPECTRAL RESPONSE ACCELERATION AT 1 SECOND PERIOD (Sp1)

HORIZONTAL OR VERTICAL IRREGULARITY TYPES

DEFLECTION AMPLIFICATION FACTOR (Cd)

MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE

DESIGN MCE, 5% DAMPED, SPECTRAL RESPONSE

MAPPED MCE, 5% DAMPED, SPECTRAL RESPONSE

ASCE 7-10 ANALYSIS PROCEDURE

SEISMIC DESIGN CATEGORY

DESIGN BASE SHEAR (V)

SEISMIC IMPORTANCE FACTOR

NET PRESSURE COEFFICIENT

WIND VELOCITY PRESSURE (qh)

SEISMIC DESIGN

VELOCITY PRESSURE EXPOSURE COEFFICIENT (Kz)

DEAD AND LIVE LOADS

ROOF LIVE LOAD (Lr)

ROOF DEAD LOAD (D)

ALLOWABLE SOIL PRESSURE

**DESIGN VALUES** 

20 PSF

5 PSF

1000 PSF

1000 PSF

1000 PSF

22 PSF

20 PSF

1.1

1.0

1.2

NO

130 MPH

1.0

31.3 PSF

1305 #

0.29

1.875

1.5

NONE

CHAPTER 27 DIRECTIONAL PROCEDURE

STEEL ORDINARY MOMENT RESISTING FRAMES

SECTION 12.8 EQUIVALENT LATERAL FORCE PROCEDURE

VARIES, SEE CALCULATIONS

### NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

- PER TITLE 24, PART 1, SECTION 4-316(e) OF THE CALIFORNIA CODE OF REGULATIONS, THIS NOTICE SHALL BE GIVEN TO DSA PRIOR TO THE APPROVAL OF PLANS AND SPECIFICATIONS.
- FOR THE SITE SPECIFIC PROJECT, ROGER HYYTINEN IS NOT THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE, UNLESS OTHERWISE
- FOR THE SITE SPECIFIC PROJECT, ROGER HYYTINEN'S RESPONSIBILITY IS LIMITED TO THE PREPARATION OF PLANS AND SPECIFICATIONS FOR THE SHELTER(S) OF THIS PC ONLY.
- STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM ROGER HYYTINEN'S RESPONSIBILITY FOR THE SITE SPECIFIC PROJECT.
- ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL BE DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO, APPROVAL OF INSPECTOR QUALIFICATIONS, STRUCTURAL OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF THE VERIFIED REPORT FOR COMPLETED WORK.
- ROGER HYYTINEN WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE SHELTER(S) OF THIS PC WHICH ARISE DURING PLAN CHECK AND CONSTRUCTION.
- IN THE EVENT THAT ROGER HYYTINEN IS REQUIRED TO PROVIDE STRUCTURAL OBSERVATION OF CONSTRUCTION, HE SHALL BE NOTIFIED IN WRITING PRIOR TO THIS REQUIREMENT BEING MADE. ALSO, HIS ANTICIPATED ADDITIONAL FEES FOR THIS ADDITIONAL WORK SHALL BE PAID IN ADVANCE, PRIOR TO ANY STRUCTURAL OBSERVATION OR CONSTRUCTION SERVICES BEING PERFORMED.

#### **GENERAL NOTES**

- SHELTER DESIGN A. THE STRUCTURAL DESIGN OF THE COMPONENTS AND CONNECTIONS OF THIS SHELTER ARE SUFFICIENT FOR EAVE HEIGHTS RANGING FROM 7' UP TO 12' TALL.
- REQUIRED EAVE HEIGHT FOR EACH SITE SHALL BE DETERMINED BY OWNER. THIS SHELTER HAS BEEN DESIGNED AS AN OPEN STRUCTURE. THE ADDITION OF ANY ENCLOSURE DIRECTLY ATTACHED TO THE SHELTER, SUCH AS WALLS, INSECT MESH, OR SHADE SCREENS, SHALL BE PROHIBITED AS INCREASED WIND FORCES MAY RESULT.
- DESIGN AND CONSTRUCTION STANDARDS A. THE DESIGN OF THIS STRUCTURE IS IN CONFORMANCE WITH THE FOLLOWING STANDARDS AND ALL PHASES OF
  - CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING STANDARDS.
  - 1. 2013 CALIFORNIA ADMINISTRATIVE CODE (CAC) ...... (PART 1, TITLE 24, CCR) 2. 2013 CALIFORNIA BUILDING CODE (CBC), VOLUMES 1 AND 2 (PART 2, TITLE 24, CCR)
  - (2012 INTERNATIONAL BUILDING CODE WITH 2013 CALIFORNIA AMENDMENTS) 2013 CALIFORNIA ELECTRICAL CODE .... .. (PART 3, TITLE 24, CCR)
  - (2011 NATIONAL ELECTRICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)
  - 2013 CALIFORNIA MECHANICAL CODE (CMC) ... .. (PART 4, TITLE 24, CCR) (2012 UNIFORM MECHANICAL CODE WITH 2013 CALIFORNIA AMENDMENTS)
  - 2013 CALIFORNIA PLUMBING CODE (CPC) ... .. (PART 5, TITLE 24, CCR) (2012 UNIFORM PLUMBING CODE WITH 2013 CALIFORNIA AMENDMENTS)
  - 2013 CALIFORNIA ENERGY CODE .. .. (PART 6, TITLE 24, CCR) . (PART 9, TITLE 24, CCR) 2013 CALIFORNIA FIRE CODE (CFC) ..
  - (2012 INTERNATIONAL FIRE CODE WITH 2013 CALIFORNIA AMENDMENTS) 8. 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE ......(PART 11, TITLE 24, CCR) 9. 2013 CALIFORNIA REFERENCED STANDARDS CODE ...... (PART 12, TITLE 24, CCR) 10. NFPA 13 ~ 2013
- CONSTRUCTION CHANGES A. CHANGES TO THE APPROVED PLANS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR CONSTRUCTION
- CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY PART 1, TITLE 24, C.C.R. FOUNDATION
- A. THE FOUNDATION SHALL REST ON SOUND SOIL THAT IS FREE OF ORGANIC AND DELETERIOUS MATERIALS AND CAPABLE OF SUPPORTING 1000 PSF VERTICAL BEARING PRESSURE. FOR LATERAL LOADING, THE FOUNDATION HAS BEEN DESIGNED TO THE MINIMUM LATERAL BEARING VALUE IN CBC
- TABLE 1806A.2. THIS IS 100 PSF/FT LATERAL BEARING. FOUNDATION DESIGN SHOWN IS BASED ON SOIL CONDITIONS GIVEN IN NOTES A AND B, ABOVE. OWNER SHALL VERIFY ACTUAL SOIL CONDITIONS AT EACH JOB SITE AND ANY REQUIRED ADJUSTMENTS TO THE FOOTING DESIGN SHALL BE DESIGNED BY OTHERS.
- COMPRESSION STRENGTH OF ALL REINFORCED CONCRETE SHALL NOT BE LESS THAN 4000 PSI AT 28 DAYS. REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO THE REQUIREMENTS OF MINIMUM ASTM A615
- GRADE 40 FOR #4 AND SMALLER BARS AND GRADE 60 FOR BARS LARGER THAN #4. MINIMUM CONCRETE CLEAR COVER FOR REINFORCING BARS SHALL BE 3". D. A CONCRETE MIX DESIGN IN ACCORDANCE WITH CBC SECTION CHAPTER 19A SHALL BE PERFORMED AND STAMPED
- BY A CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA. THE CONCRETE MIX DESIGN SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD PRIOR TO CONSTRUCTION. THE MIX DESIGN SHALL MEET THE CRITERIA HEREIN AND SHALL BE PROPER FOR LOCAL CONDITIONS INCLUDING, BUT NOT LIMITED TO, FREEZING AND THAWING EXPOSURE, CHEMICAL AND SALT EXPOSURE, AND SOIL CORROSIVITY
- WHERE SUCH PROBLEMS EXIST. NON-SHRINK GROUT OR DRY PACK SHALL BE A PREMIXED, NONMETALLIC FORMULA WITH A MINIMUM COMPRESSIVE STRENGTH OF 7000 PSI AT 28 DAYS AND HAVING THE FOLLOWING CHARACTERISTICS: NO SHRINKAGE AFTER PLACEMENT OR EXPANSION AFTER SET (ASTM C1090), ONE DAY COMPRESSIVE STRENGTH OF AT LEAST 3000 PSI (ASTM C109) AND INITIAL SET TIME OF NOT LESS THAN 45 MINUTES (ASTM C191). PROVIDE "HI-FLOW GROUT" OR "DRY PACK GROUT" BY EUCLID, OR AN APPROVED EQUAL.

### STRUCTURAL STEEL

11. NFPA 72 - 2013

- A. STEEL PLATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36. HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500, GRADE B.
- ALL STRUCTURAL STEEL SHALL BE IDENTIFIED BY MILL CERTIFICATE. HIGH STRENGTH BOLTS (HSB) SHALL BE GALVANIZED AND SHALL CONFORM TO THE REQUIRMENTS OF ASTM A325-N. HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION PLUS AN
- ADDITIONAL HALF TURN, E. ALL HIGH STRENGTH BOLTS SHALL HAVE CERTIFICATION.
- WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY'S SPECIFICATION FOR THE MATERIAL BEING WELDED. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.
- WELD ELECTRODES SHALL BE E70XX AND SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.8-6.3 FOR ALL WELDING SHALL BE APPROVED BY AN AWS CERTIFIED INSPECTOR.
- STEEL FRAMING SHALL BE COATED WITH ANTI-GRAFFITI POLYESTER TGIC POWDER COAT FINISH MEETING AAMA SHOP DRAWINGS OF ALL STRUCTURAL STEEL SHALL BE SUBMITTED TO HYYTINEN ENGINEERING FOR APPROVAL
- K. ALL BOLT HOLE DIAMETERS SHALL BE EQUAL TO THE BOLT DIAMETER PLUS 1/16" U.N.O. BOLT HOLES FOR ANCHOR BOLTS SHALL BE EQUAL TO THE BOLT DIAMETER PLUS 1/8".
- L. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36 AND SHALL BE HOT DIP GALVANIZED.
- A. INTERLOCKING SEAM ALUMINUM ROOF DECK SHALL BE ROLL FORMED FROM ALUMINUM ALLOY 3004-H151 AND SHALL CONFORM TO THE DECK PROFILE SHOWN ON THE DRAWINGS.
- B. ALUMINUM ROOF DECK SHALL BE COATED WITH HEAT REFLECTIVE BASE ULTRA-COOL COATING OR APPROVED
- C. EXTRUDED ALUMINUM RIDGE CAP SHALL BE FABRICATED FROM ALUMINUM ALLOY 6105-T5 AND SHALL CONFORM
- TO THE REQUIREMENTS SHOWN ON THE DRAWINGS. EXTRUDED ALUMINUM FASCIA SHALL BE FABRICATED FROM ALUMINUM ALLOY 6063-T5. EXTRUDED ALUMINUM GUTTER SHAL BE FABRICATED FROM ALUMINUM ALLOY 6105-T5. ALUMINUM COMPONENTS SHALL CONFORM TO
- THE REQUIREMENTS SHOWN ON THE DRAWINGS. EXTRUDED ALUMINUM RIDGE CAP, GUTTER, AND FASCIA SHALL BE COATED WITH ANTI-GRAFFITI POLYESTER TGIC POWDER COAT FINISH MEETING AAMA 2604-02 SPECIFICATIONS.
- A. SCREWS SHALL BE HILTI KWIK-PRO SELF DRILLING SCREWS WITH BOND SEAL WASHERS PER ICC ESR-2196 OR
- SCREWS ATTACHING TO STEEL SHALL BE 12-24 HEX WASHER HEAD (HWH) #5 POINT SCREWS. SCREWS
- ATTACHING TO ALUMINUM SHALL BE 8-18 HEX WASHER HEAD (HWH) #2 POINT SCREWS.
- ALL SCREWS SHALL BE STAINLESS STEEL OR COATED WITH ZINC. D. THE MANUFACTURER SHALL PROVIDE A SCREW CERTIFICATION LETTER STATING THAT SCREWS PROVIDED
- MATCH THE SIZE AND TYPE SPECIFIED HEREIN. THE CERTIFICATION LETTER SHALL BE SUBMITTED TO THE INSPECTOR OF RECORD PRIOR TO INSTALLATION.
- SHOP FABRICATION AND FIELD ASSEMBLY A. ALL STRUCTURAL STEEL AND ALUMINUM COMPONENTS SHALL BE SHOP FABRICATED SO THAT FIELD ASSEMBLY OF CONNECTIONS CAN BE PERFORMED USING ONLY BOLTING AND SCREW PLACEMENT.
- THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PERFORM INSPECTION OF THE CONSTRUCTION OF THIS PC IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 17A OF THE 2013 CALIFORNIA BUILDING CODE (PART 2, TITLE 24, C.C.R.) AND THE DIVISION OF THE STATE ARCHITECT.
- A. AN AUTOMATIC FIRE PROTECTION SYSTEM MAY BE REQUIRED FOR THIS BUILDING DEPENDING ON SITE SPECIFIC REQUIREMENTS. WHERE REQUIRED, THE AUTOMATIC FIRE PROTECTION SYSTEM SHALL BE DESIGNED BY OTHERS.
- THE DESIGN OF THIS SHELTER IS CAPABLE OF SUPPORTING THE WEIGHT OF A FIRE SPRINKLER SYSTEM (1.5 PSF). C. THE METAL ROOFING COMPLIES WITH FIRE CLASSIFICATION B. THIS SHELTER HAS NOT BEEN DESIGNED FOR PLACEMENT WITHIN ANY FIRE HAZARD SEVERITY ZONE.

# SITE SPECIFIC OPTIONS

TO BE COMPLETED PRIOR TO PLAN CHECK SUBMITTAL.

QUANTITY OF SHELTERS OF THIS PC AT THIS SITE

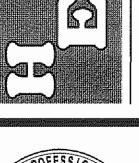
SHELTER EAVE HEIGHT (7'-6" MIN, 12' MAX)

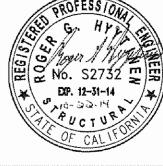
CONCRETE SLAB OR ASPHALT PAVING (BY OTHERS) OVER FOOTINGS? YES NO ROOF DOWNSPOUTS? YES NO ALUMINUM "V" PLUGS IN ROOF VOIDS FOR BIRD CONTROL? YES NO

# SHEET INDEX

- NT30.0 30' NAVAJO SHELTER DESIGN NOTES, EXAMPLE FORM DSA 103
- NT30.1 30' NAVAJO SHELTER PLANS AND ELEVATIONS
- NT30.2 30' NAVAJO SHELTER SECTIONS AND DETAILS

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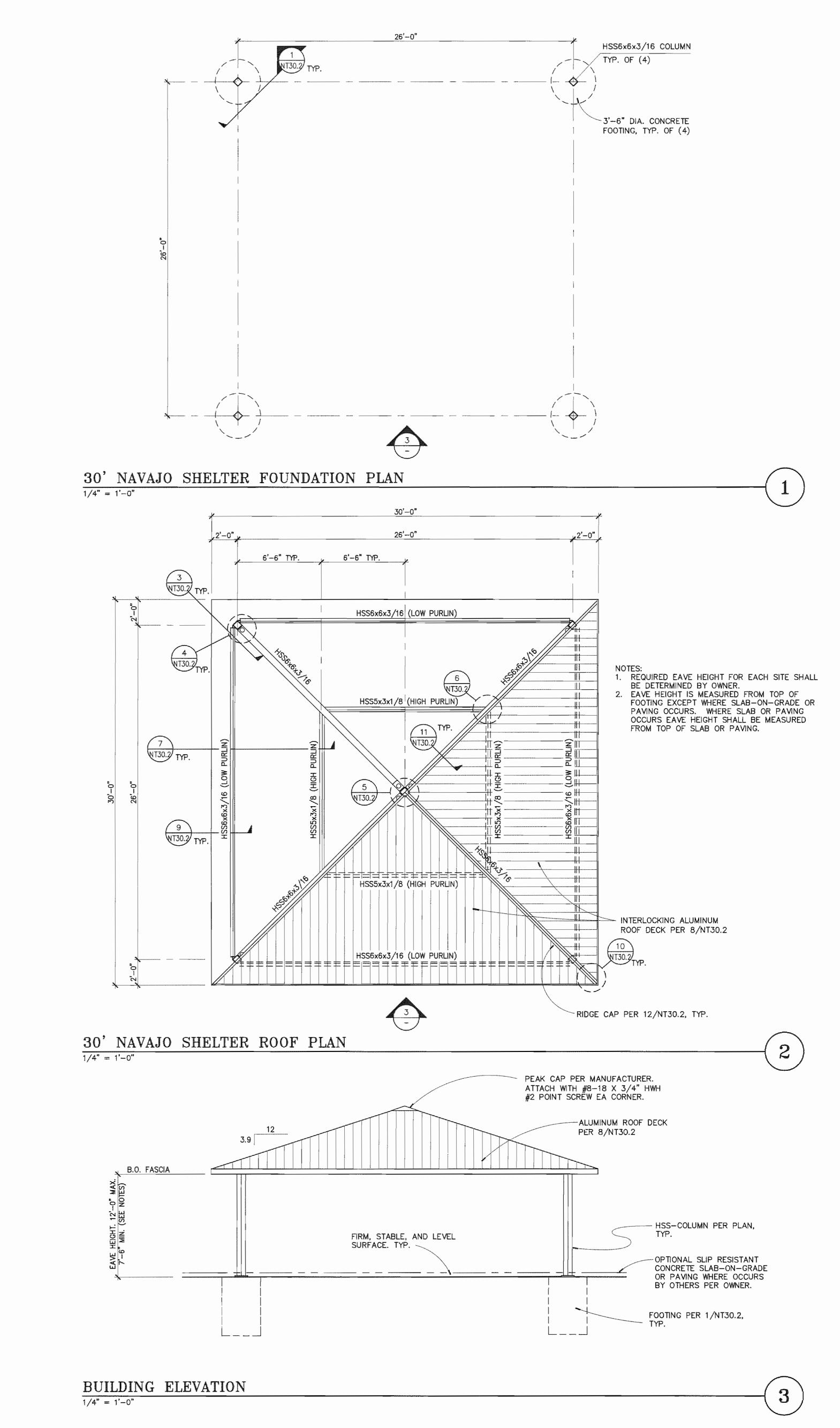


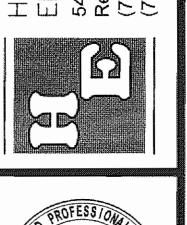
IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT 02 113840

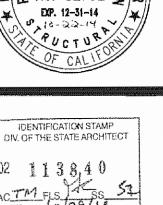
IAV. BU Dr

NVGI R.H.10/21/14 AS NOTED 44 - 14DRAWING NO.

NT30



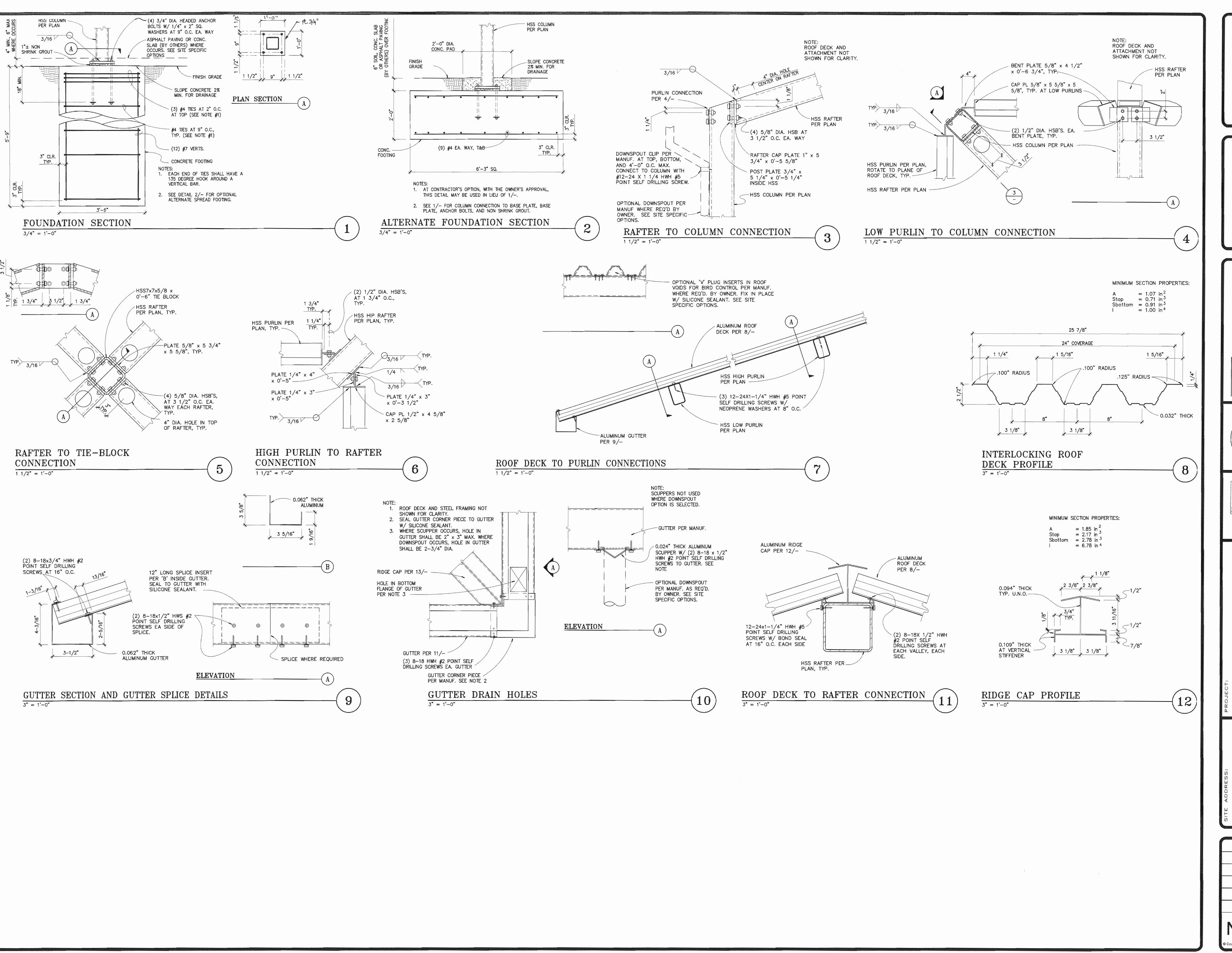


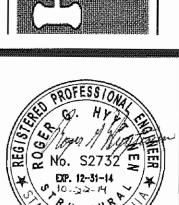


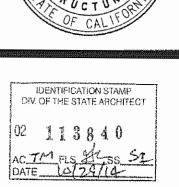
02 1138,40 ACTM FLS 7 SS ST DATE C0/29[14

30' NAVAJO SHELTERS
AMERICANA BUILDING PRODUCTS
#2 Industrial Dr. - Salem, IL 62881
(800)851-0865 www.americana.com

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NAVAJO SHELTERS

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