

**MT. SAN JACINTO COMMUNITY COLLEGE DISTRICT**  
**ADDENDUM NO. 2**  
**BID NO. 2019-016**  
**GEOTECHNICAL ENGINEERING CONSULTING SERVICES FOR**  
**5000 SEAT STADIUM AND BUILDINGS AT**  
**MENIFEE VALLEY CAMPUS**

February 25, 2019

Owner: Mt. San Jacinto Community College District  
1499 N. State Street  
San Jacinto, CA 92583

RECEIPT OF THE ADDENDUM MUST BE ACKNOWLEDGED

## Questions

- Q1. Do you want us to include a Phase 1 ESA in our scope?  
A1. List as an add alt.
- Q2. What is the purpose of boran testing? Is it for landscape amendment determination?  
A2. Yes
- Q3. Do you want a fee estimate for geotechnical observation during earthwork and special inspection during construction? If so, can you provide an example schedule so we can all have a basis for our estimates?  
A3. No
- Q4. How many meetings do you anticipate between the geotechnical investigation and construction?  
A4. No construction services at this time.
- Q5. What kind of gas do you want the borings tested for?  
A5. No gas; soil and rock
- Q6. The RFP requires a fire ant study. We have checked with local entomologists and none of them have performed this. Please confirm this is a requirement and provide the survey standard for this study (ASTM or?)  
A6. No fire ant testing
- Q7. What is the specific scope of development that needs to be addressed in the requested geotechnical engineering report?  
A7. Site investigation and soil testing
- Q8. How many buildings will there be, and what size (total square feet and type of construction) are planned?  
A8. Design is not complete
- Q9. Are grandstands (total square feet) to be construction that need to be addressed in the requested geotechnical engineering report?  
A9. Design investigation only; answer is no.
- Q10. Our question concerns the confirmation if this is strictly a geotechnical report requested as the RFP does into some detail about materials testing and requests information about that. Is strictly a geotechnical report requested?  
A10. Geotech/soil testing
- Q11. On exhibit C billing rate form, consultants proposed all inclusive not to exceed fee, we believe it is the total consultants fee for geotechnical investigations and report excluding our fees during construction, and the hourly rate asked for will be used for our services during construction. Is this right?  
A11. No construction services in this RFP.

Q12. Can the proposal only include soils investigations without construction services nor foundation engineering?

A12. Yes

Q13. What are the depths of the perc tests?

A13. There must be precedents (from recent construction/projects), so please refer to those for depths for the perc tests. The geo report will have to be submitted and reviewed by CGS and meet the requirements of note 48, see attached.

Q14. Section 2 described scope to include “red fire ant testing” – no local experience with this testing. Can you elaborate on what’s exactly needed for this?

A14. No fire ant testing.

Q15. Section 2 describes scope to include “geotechnical observation and testing during construction and/or modernization for various school facility sites” – would it be fair to assume that this is not required as part of this RFP?

A15. Yes

Q16. Section 5 describes scope relevant to construction phase, would it be fair to assume that this is not required as part of this RFP and will be part of construction phase?

A16. Yes

Q17. DVBE – since this is a limited design phase/investigation, can this be waived for future construction phase?

A17. Yes

Q18. Exhibit C – we assume this to include only cost for the design phase/investigation (cost for materials testing and inspection to be provided in this future once project drawings/specs and construction schedule along with DSA 103 are available). Please confirm.

A18. Yes, just design phase investigation.



## California Geological Survey - Note 48

### Checklist for the Review of Engineering Geology and Seismology Reports for California Public Schools, Hospitals, and Essential Services Buildings October 2013

Note 48 is used by the California Geological Survey (CGS) to review the geology, seismology, and geologic hazards evaluated in reports that are prepared under California Code of Regulations (CCR), Title 24, California Building Code (2013 CBC). CCR Title 24 applies to California Public Schools, Hospitals, Skilled Nursing Facilities, and Essential Services Buildings. The Building Official for public schools is the Division of the State Architect (DSA). Hospitals and Skilled Nursing Facilities in California are under the jurisdiction of the Office of Statewide Health Planning & Development (OSHPD). The California Geological Survey serves as an advisor under contract with these two state agencies.

Project Name: \_\_\_\_\_ Location: \_\_\_\_\_

OSHPD or DSA File #: \_\_\_\_\_ Reviewed By: \_\_\_\_\_

Date Reviewed: \_\_\_\_\_ California Certified Engineering Geologist #: \_\_\_\_\_

Checklist Item or Topic Within Consulting Report	Adequately Described; Satisfactory	Additional Information Needed
NA = not applicable NR = not addressed by consultant and therefore not reviewed at this time		

#### Project Location

1. Site Location Map, Street Address, County Name: Correctly plot site on a 7½-minute USGS quadrangle base-map.		
2. Plot Plan with Exploration Data and Building Footprint: One boring or exploration shaft per 5000 ft <sup>2</sup> , with minimum of two for any one building. Exploratory trench locations.		
3. Site Coordinates: Latitude & Longitude		

#### Engineering Geology/Site Characterization

4. Regional Geology and Regional Fault Maps: Concise page-sized illustrations with site plotted.		
5. Geologic Map of Site: Detailed (large-scale) geologic map with proper symbols and geologic legend.		
6. Subsurface Geology: Engineering geologic description summarized from boreholes or trench logs. Summarize ground water conditions.		
7. Geologic Cross Sections: Two or more detailed geologic sections with pertinent foundations and site grading.		
8. Active Faulting & Coseismic Deformation Across Site: Show proposed structures in relation to Alquist-Priolo Earthquake Fault Zones and/or any potential fault rupture hazard identified from the Safety Element of the local agency (city or county); show location of fault investigation trenches, 50-foot setbacks perpendicular from fault plane and proposed building footprints.		
9. Geologic Hazard Zones (Liquefaction & Landslides): (If applicable) Show proposed structures in relation to CGS official map showing zones of required investigation for liquefaction and landslide, and/or any pertinent geologic hazard map from the Safety Element of the local agency (city or county).		
10. Geotechnical Testing of Representative Samples: Broad suite of appropriate geotechnical tests.		
11. Consideration of Geology in Geotechnical Engineering Recommendations: Discuss engineering geologic aspects of excavation/grading/fill activities, foundation and support of structures. Include geologic and geotechnical inspections and problems anticipated during grading. Special design and construction provisions for bearing capacity failure and/or footings or foundations founded on weak or expansive soils. Consideration of seismic compression of fills; cut/fill differential settlement.		

#### Seismology & Calculation of Earthquake Ground Motion

12. Evaluation of Historical Seismicity: Prepare a short description of how historical earthquakes have affected the site.		
13. Classify the Geologic Subgrade (Site Class): ASCE 7, Chapter 20.		
14. General Procedure Ground Motion Analysis: Follows CBC §1613A.5. Report parameters $S_S$ , $S_1$ , $S_{DS}$ and $S_{D1}$ . Recommended method for establishing map values found at: <a href="http://geohazards.usgs.gov/designmaps/us/application.php">http://geohazards.usgs.gov/designmaps/us/application.php</a> .		
15. Seismic Design Category: Report if $S_1 > 0.75$		
16. Site-Specific Ground Motion Analysis: (If applicable) Required where Seismic Design Category is E or F (CBC §1616A.1.3), and where required by ASCE 7 §11.4.7. See requirements in CBC §1803A.6. CGS suggests a table showing: (a) 2%-in-50-years probabilistic spectrum, (b) risk coefficients (if using ASCE 7 §21.2.1.1, Method 1), (c) probabilistic $MCE_R$ , (d) 84% deterministic spectrum, (e) deterministic lower limit, (f) site-specific $MCE_R$ , (ASCE 7 §21.2.3), (g) 80% of map-based General Response Spectrum, (h) design response spectrum (ASCE 7 §21.3). Also provide $S_{DS}$ and $S_{D1}$ values per ASCE 7 §21.4.		



<b>Checklist Item or Topic Within Consulting Report</b>		<b>Adequately Described; Satisfactory</b>	<b>Additional Information Needed</b>
NA = not applicable NR = not addressed by consultant and therefore not reviewed at this time			
17. <b>Deaggregated Seismic Source Parameters:</b> <i>(If applicable)</i> If needed for liquefaction, slope stability analysis or for earthquake record selection, provide controlling magnitude (M) and fault distance (R). Might be either deterministic or deaggregate for modal M and R.			
18. <b>Time Histories of Earthquake Ground Motion:</b> <i>(If applicable)</i> Identify target spectra (MCE or design); justify selected earthquake records; scale to target to meet ASCE 7 §16.1.3 or §17.3 and CBC §1616A.1.32; and show initial and scaled time histories and response spectra.			

### Liquefaction/Seismic Settlement Analysis

19. <b>Geologic Setting for Occurrence of Liquefaction:</b> Perform screening analysis to identify where the following conditions apply: ♦ depth of highest historical ground water surface <50 ft. ♦ low-density, non-plastic alluvium, typically SPT ( $N_1$ ) <sub>60</sub> <30.			
20. <b>Seismic Settlement Calculations:</b> <i>(If applicable)</i> Evaluate both saturated and unsaturated layers of the entire soil column, based on several detailed geologic cross sections. Provide calculations (no estimates), including all input parameters. Evaluate liquefaction using highest historical ground water elevation. Evaluate using $PGA_M$ (CBC §1803A.5.12), and calculate liquefaction settlement for each layer where $FS < 1.3$ (CGS SP117A).			
21. <b>Other Liquefaction Effects:</b> <i>(If applicable)</i> Bearing capacity failure and/or lateral spread.			
22. <b>Mitigation Options for Liquefaction:</b> <i>(If applicable)</i> Discuss effectiveness of options to mitigate liquefaction effects. Acceptance criteria for ground-improvement schemes.			

### Slope Stability Analysis

23. <b>Geologic Setting for Occurrence of Landslides:</b> Characterize the potential for landsliding both on and off-site affecting proposed project.			
24. <b>Determination of Static And Dynamic Strength Parameters:</b> <i>(If applicable)</i> Conduct appropriate laboratory tests to determine material strength for both static and dynamic conditions.			
25. <b>Determination of Pseudo-Static Coefficient (<math>K_{eq}</math>):</b> <i>(If applicable)</i> Recommended procedure available from <a href="http://www.conservation.ca.gov/cgs/shzp/webdocs/Documents/sp117.pdf">http://www.conservation.ca.gov/cgs/shzp/webdocs/Documents/sp117.pdf</a> . Recommend using design-level ground motion based on geometric mean and without risk coefficient (ie, $(PGA_M)/1.5$ ), or discuss with CGS.			
26. <b>Identify Critical Slip Surfaces for Static and Dynamic Analyses:</b> <i>(If applicable)</i> Failure surfaces should be modeled to include existing slip surfaces, discontinuities, geologic structure and stratigraphy; include appropriate ground water conditions.			
27. <b>Dynamic Site Conditions:</b> <i>(If applicable)</i> Site response analysis and topographic effects should be considered, if appropriate.			
28. <b>Mitigation Options for Landsliding/Other Slope Failure:</b> <i>(If applicable)</i> Discuss effectiveness of options to mitigate landsliding/slope failure effects. Acceptance criteria for ground-improvement schemes.			

### Other Geologic Hazards or Adverse Site Conditions

These exceptional geologic hazards do not occur statewide; however, they may be pertinent to a particular site. Where these conditions exist relevant information should be communicated to the design team.

29. <b>Expansive Soils</b>			
30. <b>Corrosive/Reactive Geochemistry of Geologic Subgrade:</b> soluble sulfates and corrosive soils.			
31. <b>Conditional Geologic Assessment:</b> Including but not limited to - <b>A. Hazardous materials</b> methane gas, hydrogen-sulfide gas, tar seeps; <b>B. Volcanic eruption</b> ; <b>C. Flooding</b> Riverine (FEMA FIRMs or local zoning for 100-year flood); see CBC §1612A. Also consider alluvial fan & dam inundation. Is the site elevated or protected from the hazard; <b>D. Tsunami and seiche inundation</b> ; <b>E. Radon-222 gas</b> ; <b>F. Naturally occurring asbestos</b> in geologic formations associated with serpentine; refer to CGS SP 124; <b>G. Hydrocollapse</b> of alluvial fan soils due to anthropic use of water; <b>H. Regional subsidence</b> ; <b>I. Clays and cyclic softening</b> .			

### Report Documentation

32. <b>Geology, Seismology, and Geotechnical References</b>			
33. <b>Certified Engineering Geologist:</b> (CBC §1803A.1)			
34. <b>Registered Geotechnical Engineer:</b> (CBC §1803A.1)			

**UTILITY NOTE:**  
ALL UNDERGROUND UTILITY LINES SHOWN ON THIS PLAN ARE PER RECORD INFORMATION FURNISHED BY THE RESPECTIVE UTILITY COMPANIES AND MT. SAN JACINTO COLLEGE MAINTENANCE DEPARTMENT. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 TO VERIFY THE UTILITIES ON SITE BEFORE COMMENCING CONSTRUCTION. THE RECORD INFORMATION WAS AUGMENTED BY GROUND PENETRATING SONAR AND OTHER NON-INVASIVE METHODS, PERFORMED BY UNDERGROUND SOLUTIONS, INC.  
EXISTING UTILITIES HAVE BEEN IDENTIFIED AND LOCATED ON THE PLANS BASED ON THE BEST INFORMATION AVAILABLE. IF NO INFORMATION WAS PROVIDED REGARDING THE DEPTH OF ANY EXISTING UTILITY AND NO POTHOLES WERE PERFORMED, THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING EXPLORATORY EXCAVATIONS (POTHOLES) ALONG THE ALIGNMENT OF THE PROJECT TO CONFIRM LOCATION OF THE EXISTING UTILITIES AND TO ESTABLISH CONNECTION REQUIREMENTS TO EXISTING LINES. THE CONTRACTOR SHALL FIELD SURVEY THE ELEVATION AND LOCATION OF UTILITIES, INCLUDING TIE-IN POINTS, AND PROVIDE THE INFORMATION TO THE DISTRICT'S INSPECTOR A MINIMUM OF TWO WEEKS AHEAD OF CONSTRUCTION TO PERMIT DESIGN REVISIONS SHOULD A CONFLICT ARISE.

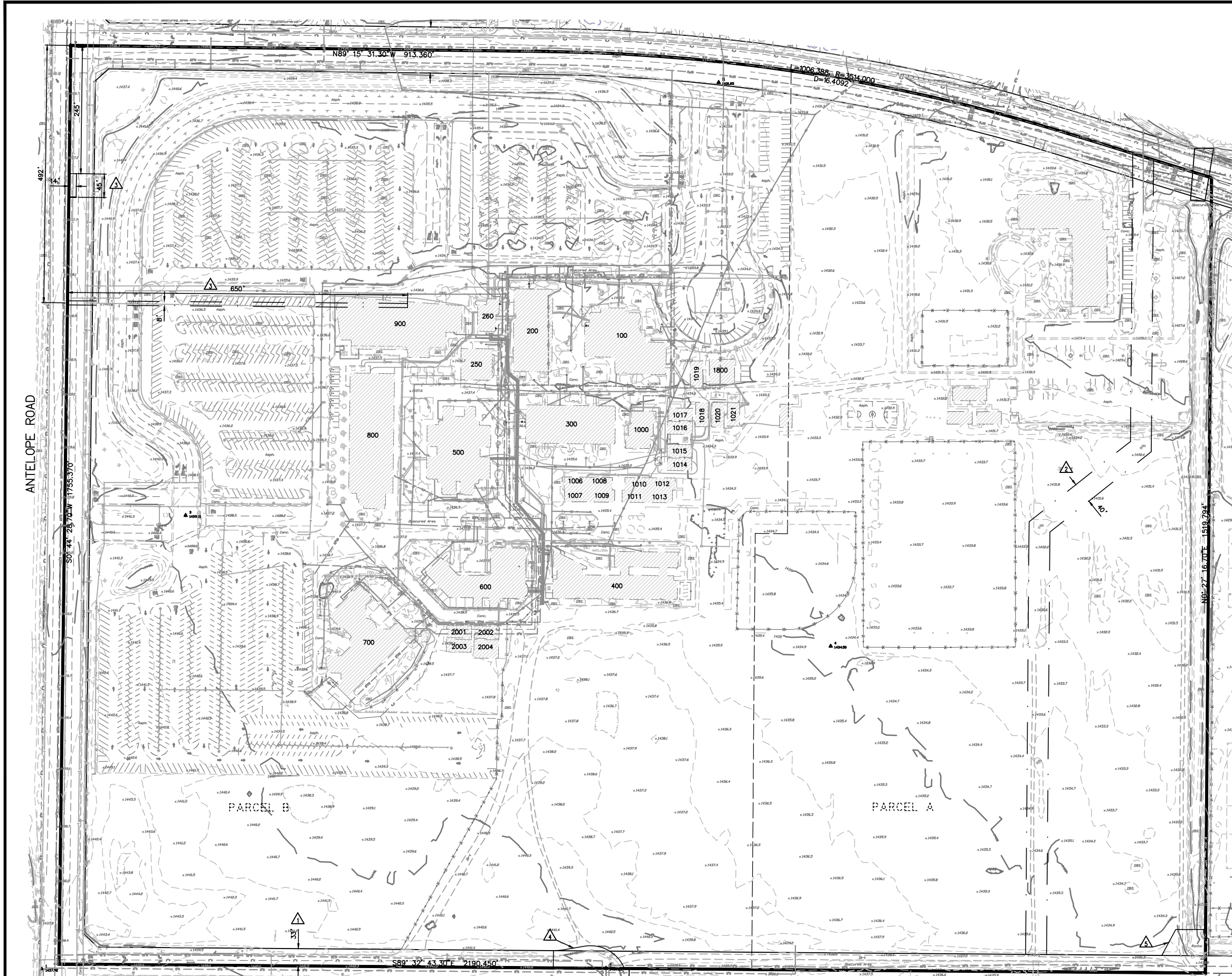
EASEMENT TABLE	
NO.	DESCRIPTION
1	EASEMENT LINE DESCRIBED IN BOOK 146, PAGES 1 THROUGH 26 OF PARCEL MAPS AS SHOWN ON PARCEL MAP 21838 FOR ROAD AND INCIDENTAL PURPOSES
2	EASEMENT LINE DESCRIBED IN INSTRUMENT NO. 1990-101618, REC. 3-21-1990 FOR SEWAGE PIPELINE AND COLLECTION FACILITIES PURPOSES IN FAVOR OF EASTERN MUNICIPAL WATER DISTRICT
3	EASEMENT LINE DESCRIBED IN INSTRUMENT NO. 1990-123450, REC. 4-6-1990 FOR RIGHT OF WAY TO CONSTRUCT, USE, MAINTAIN, OPERATE, ALTER, ADD TO, REPAIR, REPLACE, RECONSTRUCT, INSPECT AND REMOVE AT ANY TIME FROM TIME TO TIME UNDERGROUND ELECTRICAL SUPPLY SYSTEMS AND COMMUNICATION SYSTEMS PURPOSES IN FAVOR OF SOUTHERN CALIFORNIA EDISON COMPANY
4	EASEMENT LINE DESCRIBED IN INSTRUMENT NO. 2001-112001, REC. 3-20-2001 FOR PUBLIC ROAD AND DRAINAGE PURPOSES IN FAVOR OF COUNTY OF RIVERSIDE
5	EASEMENT LINE DESCRIBED IN INSTRUMENT NO. 2008-293053, REC. 3-30-2008 FOR DRAINAGE PURPOSES IN FAVOR OF COUNTY OF RIVERSIDE

**SOURCE OF TOPOGRAPHY:**  
PROJECT CONTROL AND AERIAL TARGETS ESTABLISHED BY COZAD AND FOX, INC. 6/6/2016  
AERIAL PHOTOGRAMMETRIC SURVEY PERFORM BY INLAND AERIAL SURVEYS, INC. 4/1/2016  
FIELD AND POT HOLE SURVEY PERFORM BY COZAD AND FOX, INC. 6/9/2016

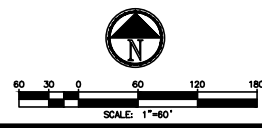
**BASIS OF BEARINGS:**  
THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, ZONE 6, BASED LOCALLY ON CONTINUOUS OPERATING REFERENCE STATION (CORS) "LFP" AND "BULL" MARKS (2011) (EPOCH 2010.00). ALL BEARINGS AND DISTANCES SHOWN ON THIS SURVEY ARE GRID. GROUND DISTANCES MAY BE OBTAINED BY DIVIDING THE GRID DISTANCE BY THE COMBINED SCALE FACTOR OF 0.9999812. CALCULATIONS ARE MADE AT OPR18SE WITH COORDINATES N 2190052.8705 E 6283127.8405  
GRID DISTANCE/0.9999812 = GROUND DISTANCE  
OR  
GRID DISTANCE = 1.00001147013 = GROUND DISTANCE

**BENCHMARK:**  
THE BENCHMARK USED IS PER RIVERSIDE COUNTY, DESIGNATION "M-9-83" IN THE INTERSECTION OF OLIVE STREET AND WINCHESTER BOULEVARD, A 1" IRON PIPE IN A CAP WELL MONUMENT MARKED "COUNTY SURVEYOR"  
ELEVATION = 1469.018' (NAVD 88)

- ADDITIONAL LEGEND ITEMS**  
THESE STANDARD SYMBOLS WILL BE FOUND IN THE DRAWINGS.
- WATER METER
  - WATER VALVE
  - W/APP
  - FIRE HYDRANT
  - BLUOFF
  - TELEPHONE MANHOLE
  - TELEPHONE RISER
  - UTILITY BOX
  - SEWER MANHOLE
  - STORM DRAIN MANHOLE
  - ELECTRIC MANHOLE
  - TOP OF GRAVE
  - DETECTOR CHECK VAULT
  - SEWER CLEAN OUT
  - MAIL BOX
  - POST INDICATOR VALVE
  - FIRE DEPARTMENT CONNECTION
  - CHANGING PROTECTION TEST HAND HOLE
  - LOCATOR WIRE HAND HOLE
  - BACKFLOW DEVICE
  - TELEPHONE/ COMMUNICATIONS
  - FM FORCE MAIN
  - VON VORON
  - SOE SOUTHERN CALIFORNIA EDISON
  - REC RECLAIMED
  - EPF EFFLUENT
  - ACP ARBESTOS CLAY PIPE
  - W WATER LINE
  - AW ABANDONED
  - TOR TOP OF CATCH BASIN
  - TOP OF GRAVE
  - BFD BACKFLOW DEVICE



**COPYRIGHT NOTE**  
THE USE OF THESE PLANS AND SPECIFICATION SHALL BE LIMITED TO THE SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS SPECIFICALLY LIMITED TO SUCH USE. REPRODUCTION, PUBLICATION, OR RE-USE BY ANY METHOD, IN WHOLE OR IN PART WITHOUT THE EXPRESS CONSENT OF COZAD AND FOX, INC. IS PROHIBITED. THE TITLE OF THE PLANS AND SPECIFICATIONS SHALL REMAIN IN COZAD AND FOX, INC. WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS. © 2007 COZAD & FOX, INC.



**BOUNDARY, TOPO, AND UTILITY DRAW**  
**MT. SAN JACINTO COLLEGE**  
28237 La Piedra Rd.  
Menifee CA 92584

Sheet No. **1**  
OF 1 SHTS  
DATE **7/12/16**





The new stadium facility, support building with parking lot will be placed in this area.