

UNLESS OTHERWISE INDICATED OR SPECIFIED, PERFORM THE WORK IN CONFORMANCE WITH THE LATEST EDITIONS OF ALL APPLICABLE REGULATORY REQUIREMENTS, INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

1. CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24): 2022
2. CALIFORNIA BUILDING CODE (PART 2, TITLE 24): 2021 IBC WITH 2022 CA AMENDMENTS
3. CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24): 2020 NEC WITH 2022 CA AMENDMENTS
4. CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24): 2021 UMC WITH 2022 CA AMENDMENTS
5. CALIFORNIA PLUMBING CODE (PART 5, TITLE 24): 2021 UPC WITH 2022 CA AMENDMENTS
6. CALIFORNIA ENERGY CODE (PART 6, TITLE 24): 2022
7. CALIFORNIA FIRE CODE (PART 9, TITLE 24): 2021 IFC WITH 2022 CA AMENDMENTS
8. CALIFORNIA EXISTING BUILDING CODE (PART 10, TITLE 24): 2021 INTERNATIONAL EXISTING BUILDING CODE WITH 2022 CA AMENDMENTS
9. CALIFORNIA GREEN BUILDING STANDARDS CODE OR CAL GREEN (PART 11, TITLE 24): 2022
10. CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24): 2022
11. CALIFORNIA CODE OF REGULATIONS PUBLIC SAFETY (TITLE 19), STATE FIRE MARSHAL: CURRENT EDITION

AMERICANS WITH DISABILITIES ACT (A.D.A.) FEDERAL ACCESSIBILITY STANDARDS


FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

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

NONE

THESE DRAWINGS AND/OR SPECIFICATIONS AND/OR CALCULATIONS FOR THE ITEMS LISTED BELOW HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED PROFESSIONALS IN THE STATE OF CALIFORNIA. SUCH DRAWINGS AND/OR SPECIFICATIONS HAVE BEEN EXAMINED BY ME FOR DESIGN INTENT AND HAVE BEEN FOUND TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE-24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME.

THE LIST DRAWING INDEX HAVE BEEN COORDINATED WITH MY PLANS AND SPECIFICATIONS AND ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH I AM PROVIDING DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE. (FOR WHICH I HAVE BEEN DELEGATED RESPONSIBILITY FOR THIS PORTION OF THE WORK)

		02/18/2025
Signature of the Architect/Engineer		Date
EVAN EVERETT SARVER		
Print Name		
M40066		09/30/2026
License Number		Expiration Date

1. EXISTING UTILITIES SHALL BE LOCATED BY CONTRACTOR THROUGH THE CONTRACTOR PROVIDED UTILITY LOCATING SERVICE SUBCONTRACTOR. UTILITIES SHALL BE CLEARLY MARKED WITH NON-PERMANENT PAINT WITH DEPTH ESTIMATES PROVIDED BY THE LOCATING SUBCONTRACTOR.
2. CONTRACTOR SHALL POTHOLE A MINIMUM OF 10' IN ADVANCE OF ANY TRENCHING OR EXCAVATING OPERATIONS. POTHOLING SHALL LOCATE AND EXPOSE ANY AND ALL UTILITIES IN THE PATH OF TRENCHING OR EXCAVATING ACTIVITIES. POTHOLING SHALL BE BY VACUUM EXCAVATING EQUIPMENT OR HAND DIGGING. ALL UTILITIES ENCOUNTERED SHALL BE CLEARLY MARKED, AND HAND EXCAVATED TO PREVENT DAMAGE.
3. ALL UTILITIES LOCATED, WHETHER OR NOT SHOWN ON CONTRACT DRAWINGS ARE TO BE MARKED ON THE PROJECT RECORD DRAWINGS, AS TO SIZE AND SERVICE, WITH EITHER A REFERENCE TO STATION NUMBER OR REFERENCE TO PERMANENT SURFACE FEATURES, AND ELEVATIONS NOTED (REFERENCED TO SEA LEVEL). REGARDLESS OF OTHER REQUIREMENTS (OR LACK THEREOF) FOR AS-BUILT DRAWINGS, CONTRACTOR SHALL PROVIDE AS-BUILT, ELECTRONIC DOCUMENTATION OF ALL UTILITIES DISCOVERED OR EXPOSED, INDICATING LOCATION, SIZE, SERVICE AND ELEVATION, WHETHER SHOWN ON CONTRACT DOCUMENTS OR NOT.
4. ANY AND ALL RFI'S OR CLARIFICATIONS RELATED TO UNDERGROUND INTERFERENCES FOR ANY TRENCHING OR EXCAVATION ACTIVITIES SHALL INCLUDE ALL INFORMATION RELATING TO SIZE, SERVICE, LOCATION AND ELEVATION OF SUBJECT UNDERGROUND OBSTRUCTIONS, AND A PROPOSED SOLUTION.
5. THE COLLEGE AND CONTRACTOR ACKNOWLEDGE THAT THAT DURING THE COURSE OF EXCAVATION, IRRIGATION PIPING WILL LIKELY BE ACCIDENTALLY CUT OR IN SOME WAY BROKEN SEVERAL TIMES AND/OR IN SEVERAL PLACES. CONTRACTOR SHALL INCLUDE IN BASE BID MONIES TO ACCOMMODATE MATERIAL AND LABOR TO REPAIR THE IRRIGATION PIPING - ASSUME 1 BREAK PER 10 FEET OF TRENCH AT EACH TRENCH LOCATION. THIS INCLUDES:

- A. IMMEDIATELY CAPPING BROKEN SECTION OF PIPE (WHETHER ACTIVE OR INACTIVE) AND IMMEDIATELY NOTIFYING THE COLLEGE OF THE IRRIGATION PIPING INCIDENT.
 - B. CUTTING AND REPLACEMENT OF DAMAGED IRRIGATION PIPE.
 - C. REPAIR OF CONTROL WIRING.
 - D. REPAIR AND REPLACEMENT OF CONTROL VALVES.
 - E. PUMPING OF EXCESS WATER OR ANY POOLED WATER INTO THE NEAREST STORM DRAIN.
 - F. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INVENTORY AND ITEMIZE IRRIGATION PIPING REPAIRS THAT OCCUR WITHIN TWO WEEKS OF OCCURRENCE.
 - G. IN THE EVENT THAT WATER IS ALLOWED TO FLOW UNCHECKED FROM A BROKEN OR RUPTURED LINE FOR GREATER THAN 15 MINUTES, THE DISTRICT SHALL HAVE THE RIGHT TO HAVE THE LINE REPAIRED AND THE CONTRACTOR SHALL BE BILLED FOR THE REPAIR WORK.
6. PROVIDE LABOR, MATERIAL, EQUIPMENT AND SERVICES NECESSARY TO COMPLETE THE TRENCHING, BACKFILLING AND COMPACTING NECESSARY FOR THIS PROJECT. COMPLY WITH DISTRICT STANDARDS, SECTION 31 23.33 – TRENCHING, BACKFILLING AND COMPACTING. THE RELATIVE COMPACTION OF TAMPED BEDDING MATERIAL SHALL NOT BE LESS THAN 90%. THE RELATIVE COMPACTION OF THE INITIAL BACKFILL SHALL BE NOT LESS THAN 90%. THE RELATIVE COMPACTION OF BACKFILL SHALL BE NOT LESS THAN 95% WITHIN 2-1/2 FEET OF FINISHED PERMANENT SURFACE GRADE OR 1-1/2 FEET BELOW THE FINISHED SUBGRADE, WHICHEVER IS GREATER.
7. A GEOTECHNICAL TESTING AGENCY (BY DISTRICT) SHALL BE RESPONSIBLE FOR COMPACTION TESTING, MOISTURE CONTENT TESTING, AND FOR QUALITY CONTROL TESTING DURING THE FILL OPERATIONS. TEST RESULTS SHALL BE SUBMITTED TO THE PROJECT MANAGER. GEOTECHNICAL AGENCY SHALL REVIEW FILL MATERIALS WITH RESPECT TO COMPLIANCE OF DISTRICT STANDARDS.
8. COORDINATE WITH DISTRICT FOR LOCATION OF NATIVE SOILS, AND LAYDOWN AREAS FOR MATERIALS. CONTRACTOR SHALL OFF-HAUL SPOILS.
9. COORDINATE ALL CLOSURES & PATHWAY OBSTRUCTIONS OR BLOCKAGES WITH DISTRICT PRIOR TO PROCEEDING WITH WORK. ALL DISRUPTION TO CAMPUS ACTIVITIES SHALL BE COORDINATED WITH DISTRICT.

1. DSA HAS DETERMINED THAT THIS PROJECT IS EXEMPT FROM DSA REVIEW BASED ON IR A-22 APPENDIX ITEM 39 (IN-KIND REPLACEMENT OF WATER PIPING). THIS PROJECT IS CONSIDERED MAINTENANCE WORK.

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
G-0.0	COVER SHEET
M-0.1	MECHANICAL SYMBOLS & ABBREVIATIONS
M-1.1	MECHANICAL SITE PLAN
M-4.1	MECHANICAL ENLARGED SITE PLAN BUILDING 300 VAULT
M-4.2	MECHANICAL ENLARGED SITE PLAN BUILDING 1200 VAULT
M-5.1	MECHANICAL DETAILS

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**SOLANO COMMUNITY
COLLEGE DISTRICT**



SOLANO
COMMUNITY COLLEGE

4000 SUISUN VALLEY RD
FAIRFIELD, CA 94534

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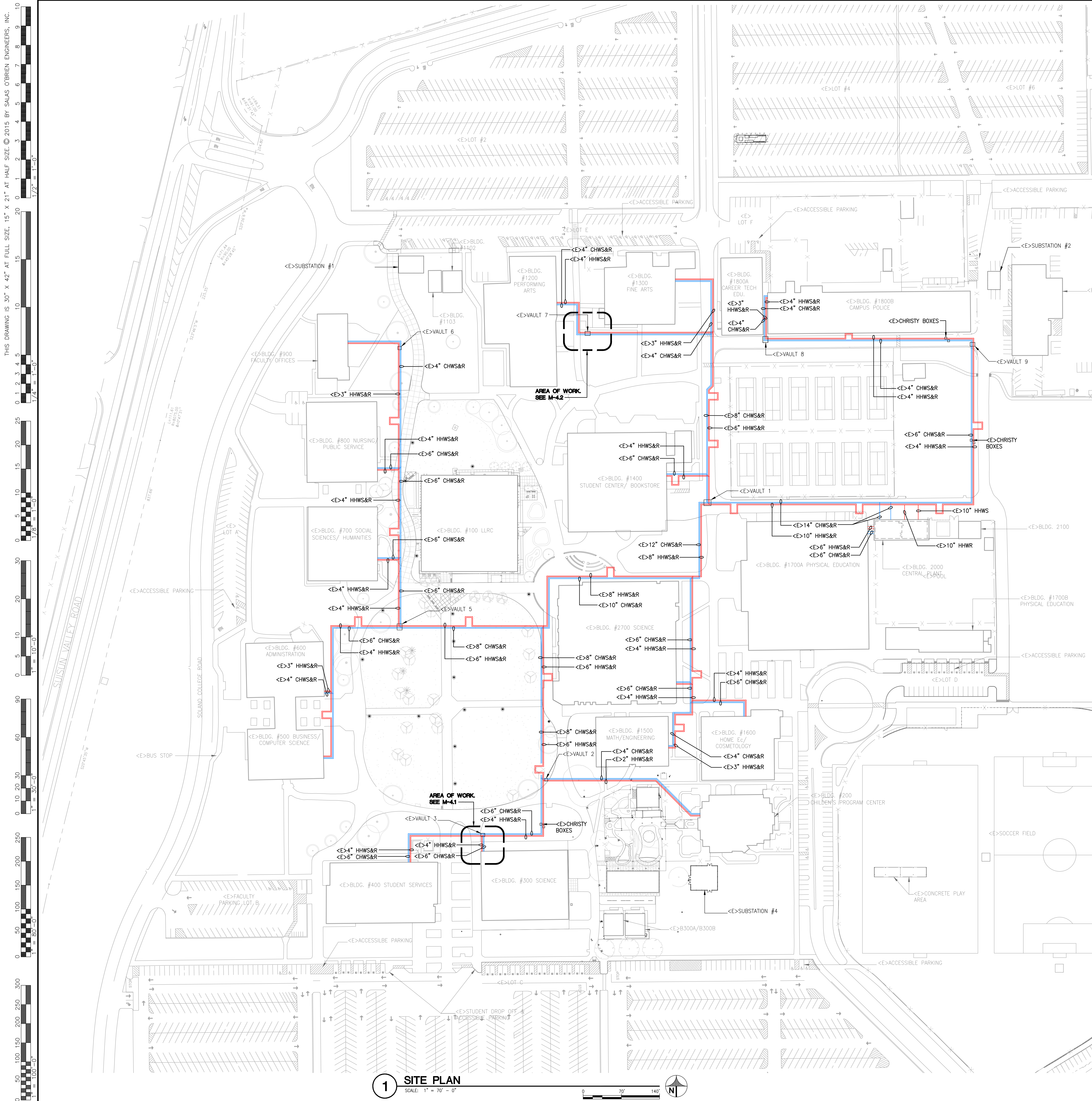
SOBE PROJECT NO:	2510-000
DATE:	02/24/
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	EL

SHEET TITLE
COVER SHEET

SCALE: AS NOTED
THIS DRAWING IS 30" X 42" AT FULL SIZE

G-0.0

SHEET OF -



1. SEE ENLARGED PLANS FOR AREAS OF WORK AND DEMO/NEW SCOPE OF WORK.
2. ALL WORK SHALL CONFORM WITH ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES.
3. ALL DIMENSIONS ARE APPROXIMATE. THE DRAWINGS ARE DIAGRAMMATIC TO THE EXTENT THAT ALL FITTINGS, OFFSETS, ETC. ARE NOT SHOWN. FIELD MEASUREMENTS ARE FOR THE GUIDANCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD FOR FABRICATION OF THE PIPING, PENETRATIONS, CONDUIT, WIRING, AND ALL COMPONENTS INTO A COMPLETE AND OPERABLE SYSTEM.
4. ALL WORK MUST BE SCHEDULED WITH THE PROJECT MANAGER TO MINIMIZE DISTURBANCE OF NORMAL ACTIVITIES. COORDINATE WORK WITH PROJECT MANAGER.
5. WHERE DISCREPANCIES OCCUR BETWEEN THE PLANS AND SPECIFICATIONS CONTRACTOR SHALL NOTIFY OWNER OF ANY DISCREPANCIES IN WRITING. ANY ADJUSTMENT OF THE CONTRACT DOCUMENTS WITHOUT A DETERMINATION BY THE OWNER SHALL BE AT THE CONTRACTOR'S OWN RISK AND EXPENSE. THE MOST STRINGENT REQUIREMENTS SHALL APPLY AS DETERMINED BY THE OWNER.
6. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
7. PRIOR TO SUBMITTING PROPOSAL, BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND SHALL HAVE REVIEWED THIS PROJECT AND BE FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
8. THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES/REQUIRED PATCHING, PLASTERING, PAINTING, HARDCAPE/LANDSCAPE REPAIR, REPAIR OF DAMAGED UTILITIES AND/OR OTHER REPAIR DUE TO THE INSTALLATION OF WORK UNDER THE TERMS OF THIS PROJECT. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED.
9. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING BUILDING CONDITIONS AND NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING OF ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENT AND EXISTING CONDITIONS.
10. THE CONTRACTOR SHALL, DURING THE COURSE OF CONSTRUCTION, PROTECT ADJACENT AREAS FROM DAMAGE, NOISE, CONSTRUCTION, AIRBORNE DUST AND FUMES AS A RESULT OF THE WORK.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL SUB-CONTRACTORS AND SHALL BE SOLELY RESPONSIBLE FOR AND HAVE CONTROL OVER CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES IN ACCORDANCE WITH THE GENERAL CONDITIONS OF THE CONTRACT.
12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE OWNER WITH A COMPLETE SET OF RECORD DRAWING, INCLUDING THE WORK OF ALL SUBCONTRACTORS.
13. ALL PRODUCTS AND MATERIALS USED ON THIS PROJECT SHALL BE FREE OF ASBESTOS.
14. NO PRODUCT WILL BE ACCEPTED ON THE JOB SITE WITHOUT PRIOR REVIEW BY THE OWNER. THE CONTRACTOR SHALL SUBMIT CATALOG SHEETS OF ALL FIXTURES, PIPING, VALVES AND ETC., FOR REVIEW.
15. ALL PRODUCT SUBSTITUTIONS SHALL HAVE PRIOR REVIEW BEFORE INSTALLATION. THE CONTRACTOR SHALL PAY ALL COSTS INCURRED FOR REVIEW, DESIGN AND INSTALLATION OF SUBSTITUTIONS. ACCEPTANCE OF SUBSTITUTIONS BY THE OWNER'S REPRESENTATIVE DOES NOT ALTER THE REVIEW REQUIREMENT.
16. THE INSTALLATION OF PIPING AND EQUIPMENT SHALL BE MADE IN SUCH A MANNER TO CLEAR BEAMS AND OBSTRUCTIONS. DO NOT CUT INTO OR REDUCE THE SIZE OF PLATES OR ANY LOAD CARRYING MEMBERS WITHOUT APPROVAL OF THE ARCHITECT AND ENGINEER OF RECORD. COORDINATE WITH WORK OF OTHERS TO PREVENT INTERFERENCE.
17. ALL LOCATIONS OF PIPING AND EQUIPMENT ARE SHOWN DIAGRAMMATICALLY TO THE EXTENT THAT ALL FITTINGS, OFFSETS, ETC. ARE NOT SHOWN. ADHERE TO LOCATIONS AS CLOSELY AS POSSIBLE. HOWEVER, RUNS OR SHAPE OF PIPING CAN VARY, AS REQUIRED TO MEET FOUNDATION, STRUCTURAL AND OTHER INTERFERENCES. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD FOR FABRICATION OF THE PIPING, PENETRATIONS, AND ALL COMPONENTS INTO A COMPLETE AND OPERABLE SYSTEM.
18. SUPPORT AND RESTRAIN PIPING PER CALIFORNIA MECHANICAL CODE AND ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. ALL SUPPORTING RODS, STRUT AND OTHER HARDWARE SHALL BE HOT DIPPED GALVANIZED UNLESS OTHERWISE SPECIFIED.
19. ALL SOLDER AND PLUMBING FIXTURES SHALL CONFORM TO NON LEAD STANDARDS.
20. ALL PIPING IN THIS CONTRACT SHALL BE LABELED ACCORDING TO ANSI A13.1, CHAPTER 13, CPC AND NFPA 99. FURNISH FLOW ARROWS INDICATING DIRECTION OF FLOW FOR LIQUID PHASE MATERIALS.
21. EXACT LOCATION OF EXISTING UTILITIES HAVE NOT BEEN INDEPENDENTLY VERIFIED. CONTRACTOR SHALL FIELD VERIFY ALL LOCATION POINTS AND LOCATIONS. VERIFICATION OF ADEQUATE FALL FOR WASTE LINE SHALL BE DONE PRIOR TO BEGINNING WORK OF THIS CONTRACT.
22. CONTRACTOR TO LEGALLY DISPOSE OF OR RECYCLE PROJECT DEBRIS.
23. ALL DEVICES & EQUIPMENT ARE NEW, UNLESS OTHERWISE NOTED.
24. SEAL ALL EXTERIOR PENETRATIONS WATER-TIGHT.
25. UNLESS OTHERWISE NOTED, ARRANGE, PAY FOR, COORDINATE AND PROVIDE ALL PERMITS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
26. WORK SHALL COMPLY WITH THE PROVISIONS OF CHAPTER 33 OF THE CBC & CFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION".

THE CONTRACTOR SHALL PROVIDE PRECONSTRUCTION DIGITAL PHOTOGRAPHS AND VIDEO RECORDINGS PRIOR TO COMMENCEMENT OF WORK ON THE SITE. BEFORE CONSTRUCTION MAY START, CONTRACTOR SHALL DOCUMENT ANY EXISTING CONDITIONS THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS (DAMAGED CONCRETE, WALLS, LANDSCAPE, ETC.). FAILURE TO DOCUMENT EXISTING DAMAGE WILL RESULT IN CONTRACTOR REPAIRS TO SURFACE TO MATCH ADJACENT AFTER CONSTRUCTION ACTIVITIES. ADDITIONAL PRECONSTRUCTION PHOTOGRAPHS/VIDEOS SHALL BE TAKEN AT LOCATIONS TO BE DESIGNATED BY THE OWNER'S REPRESENTATIVE.

CONTRACTOR SHALL MAKE A VIDEO RECORDING OF ALL PROPOSED ROUTINGS FOR INFRASTRUCTURE WORK, NOTING CONDITIONS OF EXISTING SURFACES AND ADJACENT IMPROVEMENTS. ONE COPY OF COMPLETE VIDEO SHALL BE TRANSMITTED TO THE OWNER'S REPRESENTATIVE.

CONSTRUCTION PHOTOGRAPHS


THE CONTRACTOR SHALL PROVIDE CONSTRUCTION PHOTOGRAPHS SHOWING THE PROGRESS OF THE WORK AND AS MAY BE DIRECTED BY THE OWNER'S REPRESENTATIVE. PHOTOGRAPHS/VIDEOS SHALL BE FORMATTED, IDENTIFIED, AND DELIVERED AS DESCRIBED ABOVE FOR DIGITAL PHOTOS AND VIDEOS. STARTING ONE MONTH AFTER THE DATE OF THE PRECONSTRUCTION PHOTOGRAPHS AND CONTINUING AS LONG AS THE WORK IS IN PROGRESS, APPROXIMATELY 40 MONTHLY PHOTOGRAPHS SHALL BE TAKEN, CATALOGED AND CROSS REFERENCED TO DRAWINGS/PLANS.

ANY WORK TO BE CONCEALED (BURIED, BEHIND WALLS, ABOVE CEILING, BELOW SLAB, ETC.) SHALL BE PHOTO DOCUMENTED AFTER ANY TESTING AND INSPECTION AND PRIOR TO CONCEALING TO CLEARLY INDICATE THE WORK. DOCUMENT ON PLANS THE LOCATION AND ORIENTATION FOR EACH PHOTO DOCUMENTING CONCEALED WORK.

FOR FINAL COMPLETION, DOCUMENT ALL PUNCH LIST ITEM COMPLETION BY PHOTOGRAPH OR VIDEO.

DELIVER CONSTRUCTION PHOTOGRAPHS AND VIDEOS WITHIN 10 DAYS OF CREATION. ALL PHOTOS AND VIDEOS SHALL BE OF SUFFICIENT QUALITY TO CLEARLY DEPICT WORK.

1. CONSTRUCTION IS INTENDED TO BE COMPLETED DURING THE SUMMER BREAK PERIOD TO LIMIT CAMPUS DISRUPTION. CONSTRUCTION IS AUTHORIZED TO COMMENCE MAY 23, 2025 AND PROJECT COMPLETION SHALL BE BY NO LATER THAN THE END OF AUGUST 6, 2025 (75 CALENDAR DAYS). LIQUIDATED DAMAGES AS DETERMINED BY OWNER (SEE DIV. OF C&I) WILL BE APPLIED FOR EACH DAY HEAT IS NOT AVAILABLE TO BUILDINGS AFFECTED BY THE PROJECT SCOPE.
2. COORDINATE WITH OWNER, CAMPUS FACILITIES, & CONSTRUCTION MANAGER PRIOR TO SHUT DOWN OF HEATING HOT WATER SYSTEM, CHILLED WATER SYSTEM, & MANIPULATION OF BUILDING/SITE ISOLATION VALVES.
3. WATER TREATMENT SERVICES FOR FLUSHING, DRAINING, AND TREATING THE HEATING HOT WATER SYSTEM SHALL COMMENCE AT LEAST 3 WEEKS PRIOR TO THE FINAL COMPLETION DATE (E.G. START BY NO LATER THAN JULY 16, 2025). DURATION OF THE PROJECT SHALL BE 10 WEEKS. THE PROJECT SHALL BE COMPLETED PRIOR TO THE SYSTEM REPAIRS SHALL BE MADE PRIOR TO THE FINAL COMPLETION DATE.



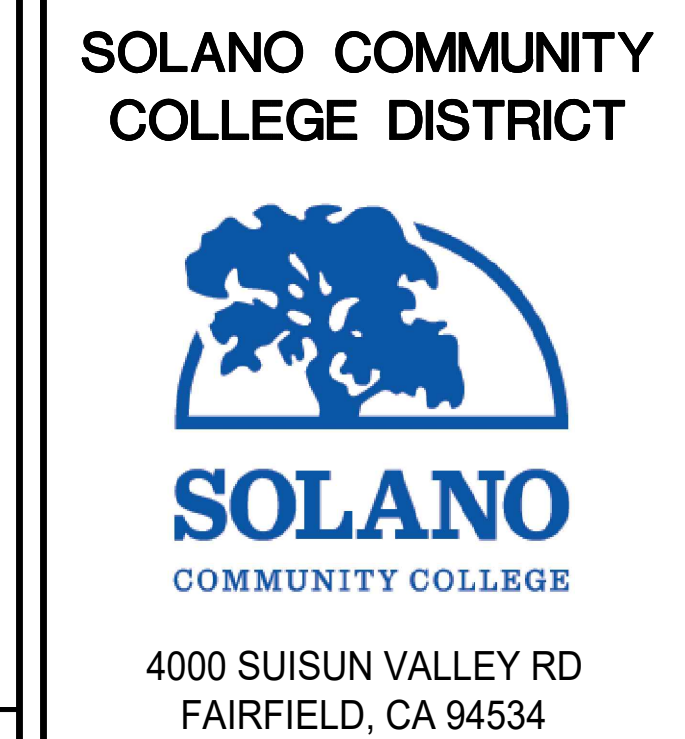
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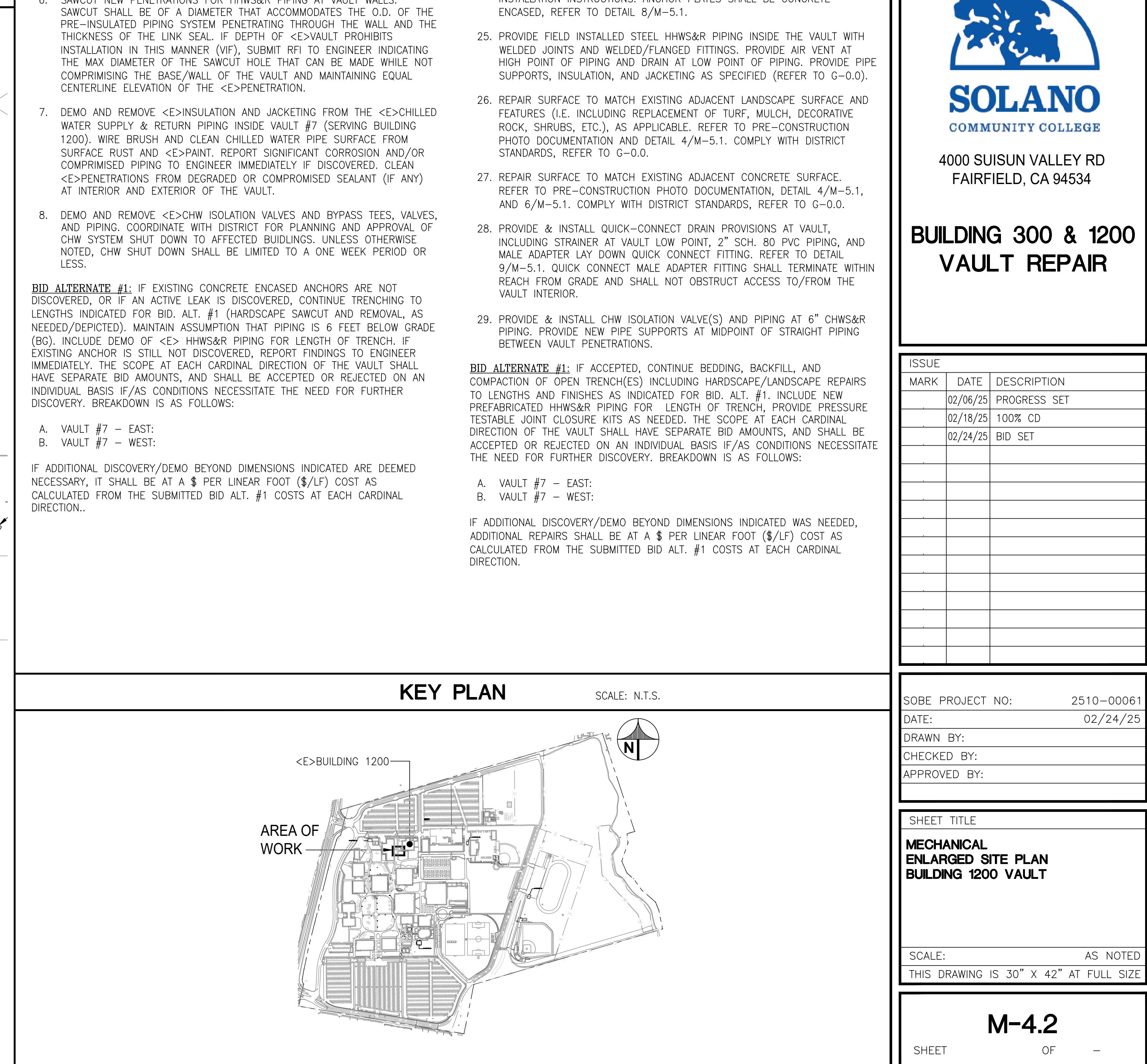
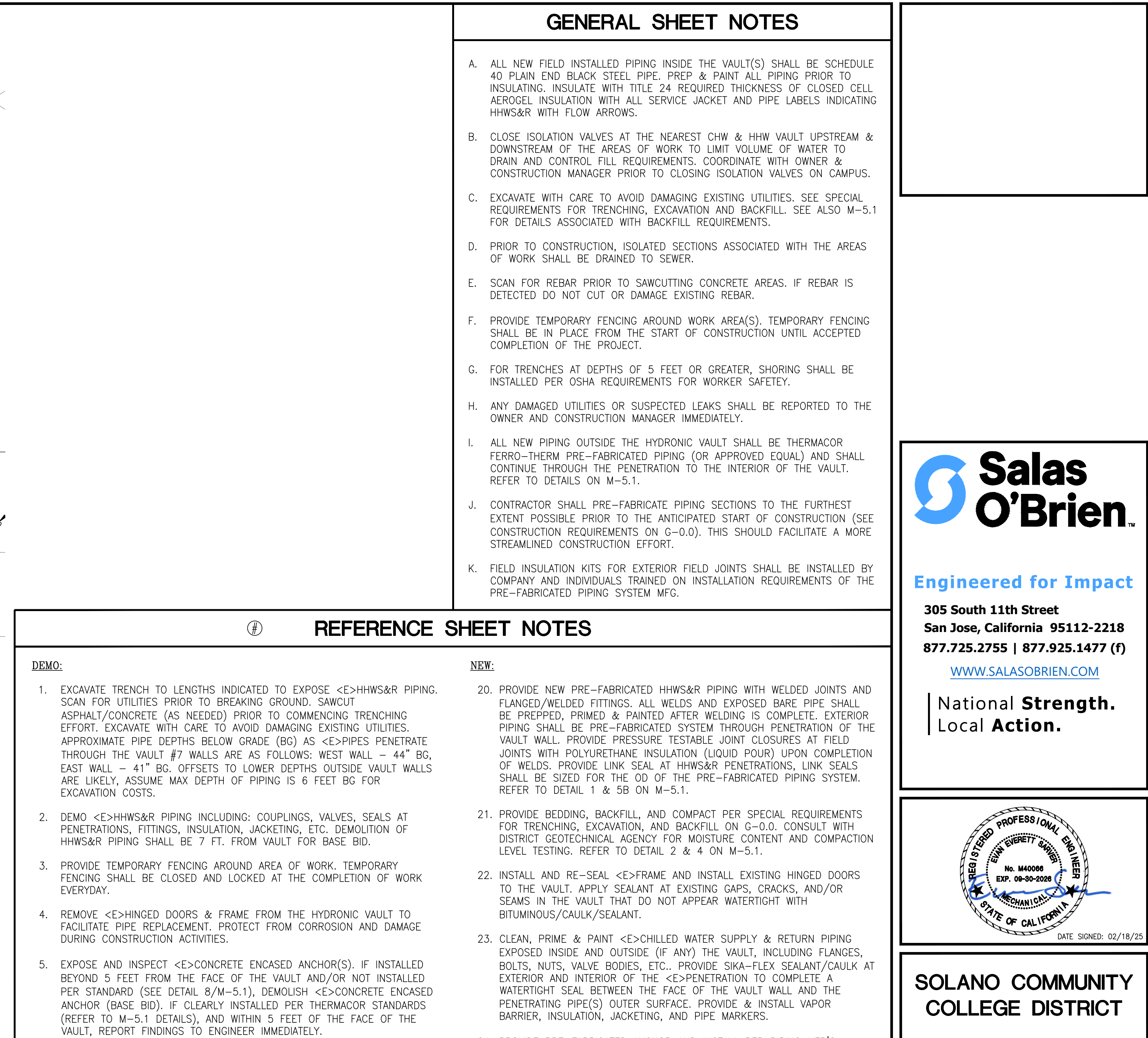
SHEET TITLE
MECHANICAL SITE PLAN

M-1.1

SHEET OF —



SHEET OF -



SHEET OF —