ABBREVIATIONS

ANCHOR BOLT

ABOVE FINISHED FLOOR **APPROXIMATELY**

BLOCKING BLOCK BLW **BELOW**

BEAM

CHILLED WATER SUPPLY CHILLED WATER RETURN

CENTERLINE CEILING

CLEAR **CONCRETE MASONARY UNIT**

COL COLUMN CONC CONCRETE **CONDENSATE** CONNECTION **CONTINUOUS**

DIAG DWG DIAGONAL **DRAWINGS** EACH

ELEVATION ELEVATION EQUIPMENT EQUIPMENT EXHAUST

FLANGE FROM **FACE OF MASONRY FLOOR JOIST**

FINISHED

FLOOR FOOT GAUGE **GALVANIZED GYPSUM DRYWALL**

GALLONS PER MINUTE HORIZONTAL **HORSEPOWER**

HIGH STRENGTH STEEL POUNDS (WEIGHT) LONG LEG HORIZONTA

LONG LEG VERTICAL MANF **MANUFACTURER**

MAX **MAXIMUM MINIMUM** METAL MTL MACHINE BOLT NEW NOM **NOMINAL**

NTS NOT TO SCALE OC ON CENTER OD - O.D. OUTSIDE DIAMETER OVRHD **OVERHEAD**

POINT OF CONNECTION POUNDS PER SQUARE INCH REFERENCE REINFORCING STEEL

REQUIREMENTS SMOKE DETECTOR SHEET SIM SIMILAR SOV SHUT-OFF VALVE

SPEC **SPECIFICATIONS** STAG **STAGGER** STD **STANDARD** STL STEEL

TOTALLY ENCLOSED FAN COOLED MOTOR TOP OF STEEL

TUBE SECTION (TYP) TYPICAL UNDERGROUND UGND

U.N.O. **UNLESS OTHERWISE NOTED** VERT. **VERTICAL**

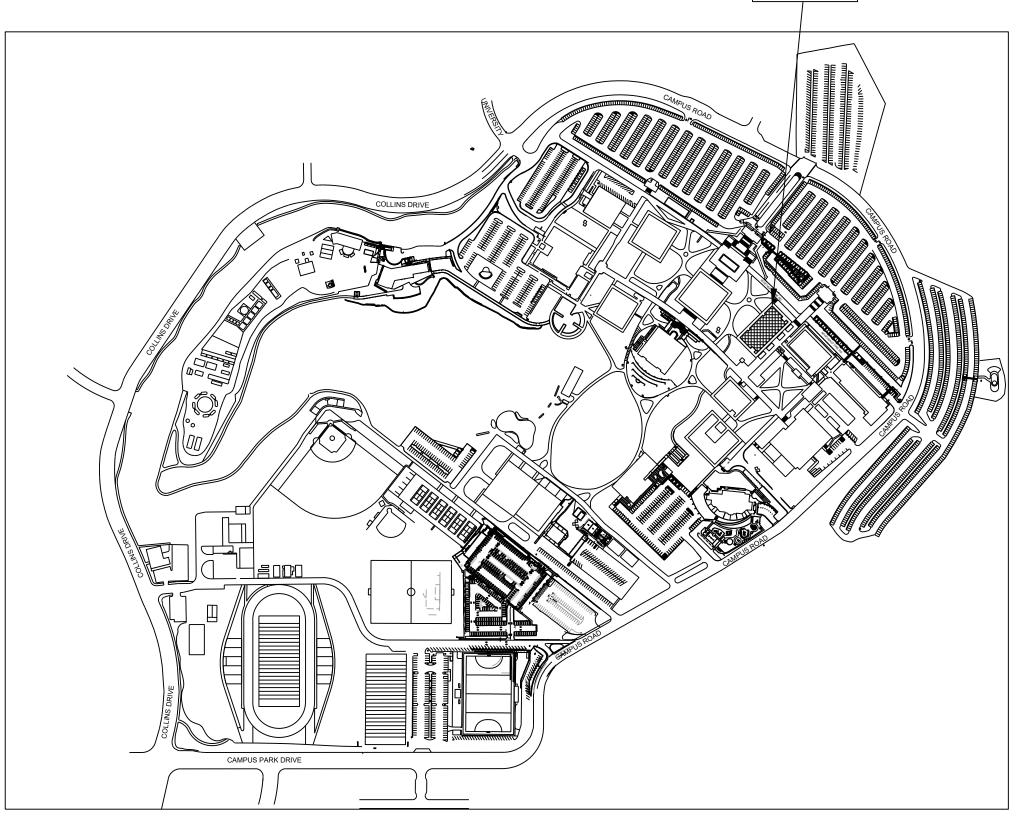
W OR WF WIDE FLANGE SHAPE WATER COLUMN W/O WITHOUT

MOORPARK COLLEGE PHYSICAL SCIENCE BUILDING CHILLER REPLACEMENT

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITEC APP: 03-122447 INC: **REVIEWED FOR** SS 🗹 FLS 🗹 ACS 🗌



AREA OF CONSTRUCTION PHYSICAL SCIENCE BUILDING P.S.B.



APPLICABLE CODES

APPLICABLE CODES AS OF JAN. 1ST, 2020

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

2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 CCR

2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR

2019 CALIFORNIA ELECTRIC CODE (CEC), PART 3, TITLE 24 CCR

2019 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR

2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR

2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR

2019 CALIFORNIA REFERENCED STANDARDS CODE (CRSC), PART 11, PART 12, TITLE 24 CCR

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

PARTIAL LIST OF APPLICABLE NFPA STANDARDS

805 378-1454 jsinutko@vcccd.edu

NFPA 90A STANDARD FOR THE INSTALLATION OF AIR CONDITIONING SYSTEMS 2021 EDITION

OWNER CONTACT

DIRECTOR OF FACILITIES, MAINTENANCE, AND OPERATIONS JOHN SINUTKO 7075 CAMPUS DRIVE, MOORPARK CA. 93021

CONSULTANTS

MECHANICAL ENGINEER AND ENGINEER OF RECORD **HUGH MCTERNAN** 838 E. Front St. Ventura Ca. 93001 805 653-1722 hugh@aegroupme.com

LARRY HAUER 2250 E. MAIN ST. VENTURA, CA. 93003 805 653-1743 Irhauer@earthlink.net

SHEET INDEX (# OF PAGES TOTAL= 9)

TITLE SHEET & CAMPUS MAP MECHANICAL SCHEDULE & NOTES CHILLER DEMOLITION PLAN

CHILLER PLAN

MECHANICAL & STRUCTURAL DETAILS

CHILLER PRODUCT INFORMATION CONDUIT DETAILS & CUT SHEETS

ENERGY NOTES ENERGY NOTES

EARTHQUAKE DESIGN DATA [2019 CBC 1603A.1.5] SITE COORDINATES: 34.2996142 °N, -119.19674 °W 2. SEISMIC IMPORTANCE FACTOR 3. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS

4. SITE CLASS 5. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS

GEOTECHNICAL INFORMATION [2019 CBC 1603A.1.6]

1. ALLOWABLE SOIL BEARING PRESSURE = 1000 PSF W/ 1/3 INCREASE

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CHANGE CHANGE DOCUMENTS (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA) AS REQUIRED BY SECTION 4-338, PART

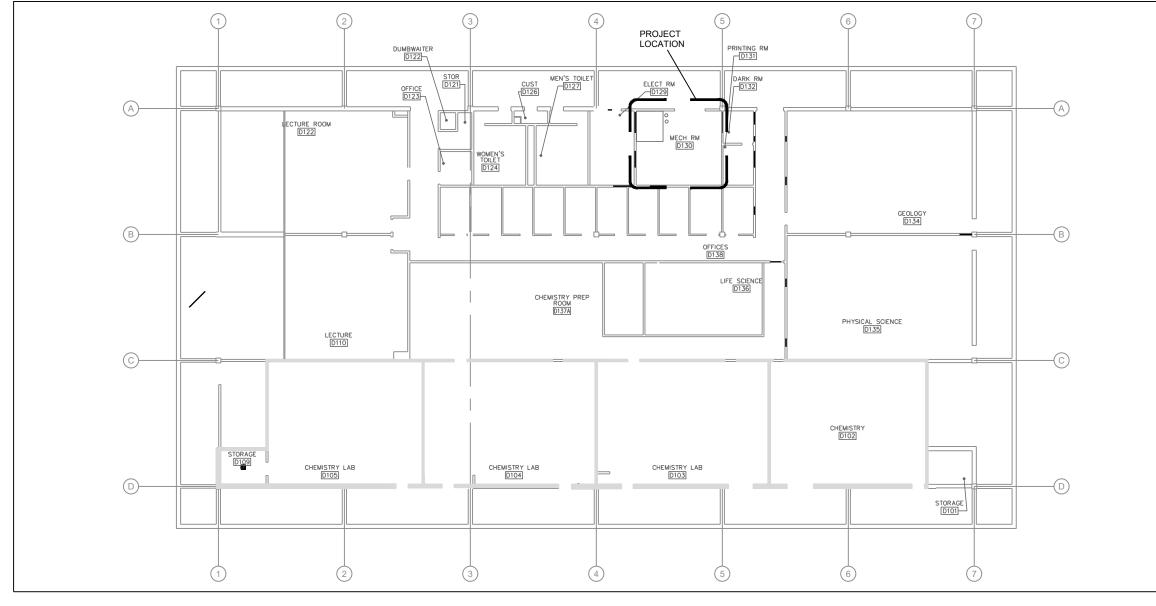
A CLASS 3 DSA CERTIFIED INSPECTOR SHALL BE EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)

A DSA ACCEPTED LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24 CALIFORNIA CODE OF REGULATIONS (CCR). SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OF NON-COMPLING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN FINISHED WORK WILL NOT COMPLY WITH TITLE 24 CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR SEPARATE SET OF PLANS AND SPECS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

REF. SEC. 4-317(c) CALIF. BUILDING STANDARDS ADMIN. CODE (PART1, TITLE

CAMPUS MAP



BUILDING FIRST FLOOR PLAN

The California Energy Code Section 10-103 requires Acceptance Testing on all newly installed lighting controls, mechanical systems, envelopes, and process equipment after installation and before project completion. An Acceptance Test is a functional performance test to help ensure that newly installed equipment is operating an in compliance with the Energy Code.

Lighting controls acceptance tests must be performed by a certified lighting controls Acceptance Test Technician (ATT)

Mechanical system acceptance tests must be performed by a certified mechanical ATT for projects submitted on or after October

Envelope and process equipment acceptance tests shall be performed by the installing contractor, engineer/architect of record or the owner's agent.

A listing of certified ATT can be found at: https:/energy.ca.gov/programs-and-topics/programs/acceptancetest-technician-certification-provider-program/acceptance.

The Acceptance Testing procedures must be repeated, and deficiencies must be corrected by the builder or installing contractor until the construction/installation of the specified systems conform and pass the required acceptance criteria.

Project inspectors will collect the forms to confirm that the required Acceptance Tests have been completed

SCOPE OF WORK PHYSICAL SCIENCE BUILDING

1, TITLE 24 CCR.

1. DEMO EXISTING WATER COOLED CHILLER, BUFFER

TANK, PUMPS, AND CONCRETE SLAB

2. INSTALL NEW CHILLER, BUFFER TANK, PUMPS, PIPING,

AND CONCRETE SLAB 3. RECONNECT TO EXISTING BUILDING PIPING,

ELECTRICAL AND CONTROLS. 4. COMMISSION SYSTEM

BUILDING INFORMATION

ORIGINAL OSA APPLICATION # 35424 FULL CERTIFICATE 2/5/1976* **CONSTRUCTION DATE - 1966**

REMODEL DSA APPLICATION # 03-102075 #1-CERTIFICATE 8/19/2003 CONSTRUCTION DATE - 1999

HVAC RETROFIT PROJECT DSA APPLICATION # 03-114324 #1 CERTIFICATION 6/5/2013

CONSTRUCTION DATE - 2012-2013 OCCUPANCY - A3/B OCCUPANCY GROUP - C **BUILDING TYPE V-ONE HOUR**

BUILDING HAS HAD VARIOUS NAMES - CLASSROOM -LABORATORY BUILDING, MATH/ SCIENCE, PHYSICAL SCIENCE



AE Group 838 East Front Street (805) 653-1722



DEPARTMENT OF

BACK CHECK SUBMITTAL

MECHANICAL NOTES

1. SCOPE OF WORK: FURNISH AND INSTALL ALL EQUIPMENT AND CONTROLS SHOWN ON THE ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS AND DESCRIBED IN THESE NOTES, THE BOOK SPECIFICATIONS AND THE CONTRACT DOCUMENTS. WORK INCLUDES BUT IS NOT LIMITED TO: DEMOLITION OF EXISTING CHILLER; INSTALLATION OF NEW CHILLER, PUMPS, BUFFER TANK, HYDRONIC PIPING, AND CONTROLS. STARTUP AND COMMISSIONING OF NEW COMPLETE MECHANICAL AND CONTROL SYSTEMS AS DESCRIBED IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL FURNISH AND INSTALL, MAKE OPERABLE, AND TEST ALL SYSTEMS AND MECHANICAL EQUIPMENT SHOWN ON THE PLANS AND DESCRIBED IN THE SPECIFICATIONS AND CONTRACT DOCUMENTS. IN CONNECTION THEREWITH, CONTRACTOR SHALL ALSO FURNISH AND INSTALL ALL NECESSARY DEVICES, HARDWARE, AND SYSTEMS REQUIRED TO MAKE SAID EQUIPMENT PROPERLY AND SAFELY OPERABLE, INCLUDING BUT NOT LIMITED TO. MOUNTING HARDWARE, INSULATION, PIPING, AND CONTROL SYSTEMS.

2. EXAMINATION OF SITE AND CONTRACT DOCUMENTS. EACH BIDDER SHALL, AT ITS SOLE COST AND EXPENSE, INSPECT THE SITE OF THE PROPOSED WORK TO BECOME FULLY ACQUAINTED WITH CONDITIONS RELATING TO THE WORK AND TO FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS ATTENDING THE EXECUTION OF THE WORK UNDER THE CONTRACT DOCUMENTS AND COST THEREOF. BIDDERS SHALL THOROUGHLY REVIEW AND BE FAMILIAR WITH THE CONTRACT DOCUMENTS, INCLUDING WITHOUT LIMITATION, THE SPECIFICATIONS AND THE DRAWINGS. THE FAILURE OR OMISSION OF ANY BIDDER TO RECEIVE OR EXAMINE ANY OF THE CONTRACT DOCUMENTS, FORMS, INSTRUMENTS, ADDENDA, OR OTHER DOCUMENTS OR TO INSPECT THE SITE SHALL NOT RELIEVE SUCH BIDDER FROM ANY OBLIGATIONS WITH RESPECT TO THE BID PROPOSAL, THE CONTRACT OR THE WORK REQUIRED UNDER THE CONTRACT DOCUMENTS. THE OWNER ASSUMES NO RESPONSIBILITY OR LIABILITY TO ANY BIDDER FOR, NOR SHALL THE OWNER BE BOUND BY, ANY UNDERSTANDINGS, REPRESENTATIONS OR AGREEMENTS OF THE OWNER'S AGENTS, EMPLOYEES OR OFFICERS CONCERNING THE CONTRACT DOCUMENTS OR THE WORK MADE PRIOR TO EXECUTION OF THE CONTRACT. THE SUBMISSION OF A BID PROPOSAL SHALL BE DEEMED PRIMA FACIE EVIDENCE OF THE BIDDER'S FULL COMPLIANCE WITH THE REQUIREMENTS OF THIS SECTION.

3. INTERPRETATION OF DRAWINGS. SPECIFICATIONS OR CONTRACT DOCUMENTS. IF ANY BIDDER IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE DRAWINGS, THE SPECIFICATIONS OR OTHER PORTIONS OF THE CONTRACT DOCUMENTS: FINDS DISCREPANCIES, ERRORS OR OMISSIONS THEREIN; OR FINDS VARIANCES IN ANY OF THI CONTRACT DOCUMENTS WITH APPLICABLE RULES, REGULATIONS, ORDINANCES AND/OR LAWS, A WRITTEN REQUEST FOR AN INTERPRETATION OR CORRECTION THEREOF MAY BE SUBMITTED TO THE ENGINEER. IT IS THE SOLE AND EXCLUSIVE RESPONSIBILITY OF THE BIDDER TO SUBMIT SUCH REQUEST IN SUFFICIENT TIME FOR THE PREPARATION OF A RESPONSE THERETO AND DELIVERY OF SUCH RESPONSE TO ALL BIDDERS PRIOR TO THE SCHEDULED CLOSING FOR RECEIPT OF BID PROPOSALS. ANY REQUEST OF ANY BIDDER PURSUANT TO THE FOREGOING SENTENCE THAT IS MADE LESS THAN SEVEN DAYS PRIOR TO THE SCHEDULED CLOSING DATE FOR THE RECEIPT OF BID PROPOSALS SHALL BE DEEMED UNTIMELY, ANY INTERPRETATION OR CORRECTION OF THE CONTRACT DOCUMENTS WILL BE MADE ONLY BY WRITTEN ADDENDUM DULY ISSUED BY THE OWNER OR THE ENGINEER. A COPY OF ANY SUCH ADDENDUM WILL BE MAILED OR OTHERWISE DELIVERED TO EACH BIDDER RECEIVING A SET OF THE CONTRACT DOCUMENTS. NO PERSON IS AUTHORIZED TO RENDER AN ORAL INTERPRETATION OR CORRECTION OF ANY PORTION OF THE CONTRACT DOCUMENTS TO ANY BIDDER, AND NO BIDDER IS AUTHORIZED TO RELY ON ANY SUCH ORAL INTERPRETATION OR CORRECTION.

4. DIMENSIONS. ALL DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE. ALL DIMENSIONS SHALL BE VERIFIED IN THE FIELD. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN ARCHITECTURAL AND ENGINEERING DRAWINGS BEFORE PROCEEDING WITH WORK. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON WORKING DRAWINGS. ALL SIZES OF EQUIPMENT AND MATERIALS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER.

5. CODES AND STANDARDS: ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE 2019 CALIFORNIA PLUMBING CODE, THE 2019 CALIFORNIA MECHANICAL CODE, THE 2019 CALIFORNIA BUILDING CODE, THE STATE OF CALIFORNIA, THE LOCAL JURISDICTION, AND STANDARD CONSTRUCTION PRACTICES. ALL MECHANICAL EQUIPMENT SHALL BE IN STRICT ACCORDANCE WITH THE EQUIPMENT SCHEDULE, AND SHALL BE NEW AND FREE FROM DEFECTS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES, AND SHALL OBTAIN APPROVED INSPECTIONS FOR ALL WORK AS REQUIRED BY OWNER, AND LOCAL JURISDICTION. CONTRACTOR SHALL MAINTAIN IN EFFECT ALL INSURANCE REQUIRED BY STATE LAWS, LOCAL JURISDICTION, AND THE OWNER. WHERE CONFLICT OR VARIATION EXISTS AMONGST CODES, SPECIFICATIONS, OR DRAWINGS, THE MOST STRINGENT SHALL GOVERN. NOTHING IN THESE PLANS AND SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO APPLICABLE CODES.

6. SUBMITTALS REQUIRED: PRIOR TO ORDERING EQUIPMENT AND MATERIALS, CONTRACTOR SHALL FURNISH TO ENGINEER / OWNER SUBMITTALS AND SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIALS PROPOSED FOR USE IN THIS PROJECT. ORDERING OF EQUIPMENT AND MATERIALS SHALL ONLY PROCEED AFTER SATISFACTORY REVIEW OF ALL SUBMITTALS BY CONTRACTOR / ENGINEER / DISTRICT. COPIES OF ALL OWNER'S MANUALS, WARRANTIES AND OTHER WRITTEN INFORMATION REGARDING SYSTEMS SHALL BE PRESENTED TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT.

7. CONSTRUCTION OBSERVATION: IN ADDITION TO THE REQUIREMENT FOR OBTAINING INSPECTIONS BY THE LOCAL JURISDICTION, CONTRACTOR SHALL NOTIFY ENGINEER AT APPROPRIATE TIMES DURING THE CONSTRUCTION PROCESS SO THAT ENGINEER CAN VISIT SITE TO BECOME GENERALLY FAMILIAR WITH THE PROGRESS AND QUALITY OF CONTRACTOR'S WORK AND TO DETERMINE IF THE WORK IS PROCEEDING IN GENERAL ACCORDANCE WITH THE CONTRACT DOCUMENTS.

8. UNIT LOCATIONS: EQUIPMENT AND SYSTEM LOCATIONS SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL STRUCTURAL MEMBERS AND EXISTING CONDITIONS IN THE FIELD TO AVOID INTERFERENCE. ANY SIGNIFICANT DEVIATIONS FROM THE PLANS SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER. ALLOW CLEARANCE FOR PIPING. ALL CLEARANCES REQUIRED BY UNIT MANUFACTURER SHALL BE MAINTAINED. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH CODES AND THE RECOMMENDED INSTALLATION PROCEDURES PUBLISHED BY THE MANUFACTURER.

9. CHILLED WATER PIPING SHALL BE US MANUFACTURED SCHEDULE 40 STEEL PIPE WITH WELDED OR GROOVED FITTINGS. VALVES SHALL BE STOCKHAM OR EQUAL. PIPING 1-1/2" & SMALLER SHALL BE INSULATED WITH 1" FIBERGLASS WITH ALL SERVICE JACKET. CHILLED WATER PIPING 2" & LARGER SHALL BE COVERED WITH 2" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET INSULATION & FITTING COVERS.

10. TEST NEW PIPING FOR CHILLED WATER PIPING @ SYSTEM PRESSURE FOR 24 HRS.

11. EQUIPMENT DRAINS SHALL TERMINATE AT FLOOR SINK. DRAINS SHALL BE TYPE L COPPER WITH WROT COPPER FITTINGS AND SOLDERED JOINTS. VALVES SHALL BE NIBCO S-585 FULL PORT BALL VALVES.

12. WAFER STYLE BUTTERFLY VALVES SHALL BE NIBCO MODEL LD 200.

13. ALL MECHANICAL SYSTEMS SHALL BE CLEARLY & PERMANENTLY LABELED. LABEL SHALL DETAIL THE AREA SERVED & UNIT TAG.

14. CLEANUP: EVERY DAY, AND AFTER ALL WORK HAS BEEN COMPLETED, CONTRACTOR SHALL CLEAN ENTIRE JOB-SITE OF ALL DEBRIS ASSOCIATED WITH MECHANICAL SYSTEMS. EXPOSED PARTS WHICH ARE TO BE PAINTED SHALL BE THOROUGHLY CLEANED READY FOR PAINTING.

15. CORRECTION OF WORK: THE CONTRACTOR SHALL PROMPTLY CORRECT ALL WORK THE OWNER FINDS DEFECTIVE OR FAILING TO CONFORM TO THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BEAR ALL COSTS REQUIRED BY THE CONTRACT DOCUMENTS. IF ANY OF THE WORK IS FOUND TO BE DEFECTIVE OR NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL CORRECT IT PROMPTLY AFTER RECEIPT OF A WRITTEN NOTICE FROM THE OWNER TO DO SO.

16. AS-BUILT DRAWINGS SHALL BE GIVEN TO THE OWNER PRIOR TO ACCEPTANCE OF THE PROJECT. INCLUDED IN THE AS-BUILTS SHALL BE DOCUMENTATION AND TWO COPIES OF THE PRINTED SHEETS AND PLANS ON MAGNETIC MEDIA.

17. WIRING: ALL WIRING SHALL BE PERFORMED IN ACCORDANCE WITH CEC REQTS. ALL WIRING SHALL BE IN CONDUIT. ALL INTERIOR LOW VOLTAGE AND CONTROL WIRING SHALL BE IN WIREMOLD. EXPOSED CONDUIT SHALL BE INSTALLED IN A SQUARE, PLUMB, AND LEVEL MANNER WITH THOUGHT GIVEN TO THE FINAL APPEARANCES. PROVIDE TO ENGINEER SHOP DRAWING FOR CONTROL TRANSFORMER CONFIGURATIONS DETAILING CIRCUITS TO BE USED, LOAD CALCULATIONS, WIRE SIZES, AND LOCATIONS. WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CALIFORNIA ELECTRICAL CODE AND ELECTRICAL SPECIFICATIONS. ALL TRANSFORMERS SHALL BE PROTECTED BY PROPERLY SIZED CIRCUIT BREAKER OR FUSE(S). ALL TRANSFORMERS SHALL HAVE RESETABLE BREAKER ON THE LOAD SIDE. ALL LOW VOLTAGE CONTROL & COMMUNICATIONS WIRING SHALL BE DONE ACCORDING TO MANUFACTURERS INSTALLATION MANUAL. PROVIDE SUBMITTALS ON WIRE AND ENCLOSURES.

18. ALL EXTERIOR PIPING SUPPORTS, FITTINGS, BOLTS & NUTS SHALL BE GALVANIZED TYPE.

GREEN BUILDING NOTES

AMOUNTS RECYCLED.

1. GENERAL CONTRACTOR SHALL ESTABLISH A CONSTRUCTION WASTE MANAGEMENT PLAN FOR THE DIVERTED MATERIALS, OR MEET LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT. WASTE MANAGEMENT PLAN SHALL:

A.) IDENTIFY THE MATERIALS TO BE DIVERTED FROM DISPOSAL BY EFFICIENT USAGE, RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.

B.) DETERMINE IF MATERIAL WILL BE SORTED ON-SITE OR MIXEDC.) IDENTIFY DIVERSION FACILITIES WHERE MATERIALS COLLECTED WILL BE

TAKEN.

D.) SPECIFY THE AMOUNT OF MATERIALS DIVERTED WHICH SHALL BE CALCULATED BY WEIGHT OR VOLUME, BUT NOT BOTH.

2. RECYCLE WASTE MATERIAL BEING REMOVED FROM SITE TO THE GREATEST EXTENT POSSIBLE. RECORD ALL AMOUNTS DISPOSED AND ALL

3. COVERING OF DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT DURING CONSTRUCTION: AT THE TIME OF ROUGH INSTALLATION, OR DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM. PER THE 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE, C.G.B.S.C., SECTION 5.504.3.

4. ALL REFRIGERANTS SHALL BE DEALT WITH PER US EPA REQUIREMENTS.

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR ALTERING, PATCHING, AND REPAIRING OF EXISTING ADJACENT MATERIALS DISTURBED BY MECHANICAL EQUIPMENT REPLACEMENT, INCLUDING BUT NOT LIMITED TO INTERIOR PLASTER AND/OR GYP BOARD & TRIM, FLOOR & CEILING FINISHES. ALL DISTURBED AREAS SHALL BE FINISHED TO MATCH THE EXISTING CONDITION.

2. CUTTING, BORING SAWCUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED ON THE DRAWINGS OR ACCEPTED BY THE LOCAL JURISDICTION.

3. ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR.

4. CONCRETE SLAB POUR SHALL BE INSPECTED AND TEST CYLINDERS TAKEN AND TESTED.

5. SPECIAL INSPECTION REQUIRED FOR POST-INSTALLED ANCHORS PER ICC ESR.

6. UNLESS OTHERWISE NOTED ALL POST-INSTALLED ANCHOR EMBEDMENT IS EFFECTIVE.

CONTROL NOTES

RECONNECT TO THE EXISTING AUTOMATED LOGIC CONTROL SYSTEM.
 CONNECT (N) PUMP VFD'S TO CONTROLS. BACNET CONNECTION TO CHILLER
 TEST ALL OPERATIONS INCLUDING COOLNG TOWER CONTROL.
 CONTROL CONDENSER WATER THREE WAY VALVE TO MAINTAIN A MINIMUM OF 65 F RETURN TO CONDENSER.

ELECTRICAL NOTES

- 1. ALL WORK SHALL BE PERFORMED BY STATE OF CALIFORNIA LICENSED JOURNEYMEN. REVIEW EXISTING CONDITIONS PRIOR TO BEGINNING WORK. DISCONNECT EXISTING CHILLER AND PUMPS FROM EXISTING ELECTRICAL SERVICE AND MAKE SAFE. EXISTING BREAKERS WILL BE RE-USED.
- 2. BEFORE ENERGIZING SYSTEM TEST TO VERIFY SYSTEM IS FREE FROM SHORT CIRCUITS AND GROUNDS. VERIFY CIRCUIT BREAKER IS MOUNTED CORRECTLY AND WIRES LANDED PROPERLY. EXISTING BREAKERS WILL BE RE-USED.
- 3. RELOCATE AND EXTEND EXISTING ELECTRICAL INSTALLATION TO ACCOMMODATE NEW EQUIPMENT. SUPPORT ALL NEW ELECTRICAL CONDUIT AND BOXES PER CEC & OSHPD OPM 0052 & 0063 REQUIREMENTS.
- 4. CONDUIT SHALL BE ELECTRICAL METALLIC TUBING CUT SQUARE AND REAMMED, WITH COMPRESSION FITTINGS. PROVIDE ALL NEEDED CONDELETS, BOXES, CONNECTORS, SUPPORT FITTINGS, AND ANCHORS FOR A COMPLETE INSTALLATION. PROVIDE BUSHINGS ON CONDUIT OVER 1".
- 5. WIRE SHALL BE STRANDED, RATED FOR 600 VOLTS, 75 DEG. C. NO SPLICES. INSTALL NEW WIRE FROM BREAKER TO CHILLER AND VFD'S. PROVIDE INSULATED GROUND CONDUCTOR SIZED PER CEC REQUIREMENTS. WIRE SHALL BE BLACK, RED, BLUE AND WHITE FOR THE 208V 3 PHASE CIRCUITS.
- 7. INSTALL VFD ON SUPPORT (8/M4). LABEL VFD'S CIRCUIT BREAKERS WITH PERMANENT PLATE.

APP: 03-122447 INC: REVIEWED FOR SS ☑ FLS ☑ ACS □ DATE: 09/09/2022

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITEC

AGENCY APPROVAL

DEVICE WIRE SIZES MCA CONDUIT SIZE **CHILLER CIRCUIT 1** 3/0 W/ #4 GRD 130 130 CHILLER CIRCUIT 1 3/0 W/ #4 GRD 35 VFD CONDENSER PUMP 3- #8 W/ # 8 GRD VFD CHILLED PUMP 3- #10 W/ #10 GRD 22

EXISTING ELECTRICAL SERVICES HAVE BEEN INVESTIGATED AND FOUND TO HAVE THE CAPACITY TO SERVE THE NEW EQUIPMENT. THERE IS NO INCREASE IN ELECTRICAL LOAD ON THE BUILDING'S ELECTRICAL SYSTEM.

ACCESSORIES

TAG	DESCRIPTION	SERVICE	MAKE MODEL	CONNECTIONS	NOTES	ANCHORAGE DETAIL
	BUTTERFLY VALVE	CHILLED & CONDENSER WATER	NIBCO OR STOCKHAM		INSTALL AT LOCATION SHOWN ON PLANS	NA
X	BALL VALVE	CHILLED & CONDENSER WATER	NIBCO OR STOCKHAM	SOLDER/THREADED	INSTALL AT LOCATION SHOWN ON PLANS	NA
(BT)	BUFFER TANK	CHILLED WATER	HANSON WK-975-B AMERICAN WHEATLY	+ 1 L/ ((10LD	ASME 260 GALLONS BAFFLED, R-16 FOAM INSULATION ANCHOR TO RESIST SEISMIC MOTION. WEIGHT 2710 LBS.	1/M4
ET 1	EXPANSION TANK	CHILLED WATER	AMTROL 15V-PD	3/4" NPT	ANCHOR TO RESIST SEISMIC MOTION. WEIGHT 105 LBS.	6/M4
(CT)	POT FEEDER TANK	CHILLED WATER	JL WINGERT DB-5HD	3/4" NPT	FLUSH SYSTEM AND PROVIDE ONE YEAR CHEMICAL TREATMENT SERVICE 50 LBS	3/M4
FV 1	FILL VALVE	CHILLED WATER	BELL & GOSSETT MODEL F8-TU	1/2" UNION/ SWEAT	PRESSURE REGULATOR/FILL VALVE	NA
ST 1	STRAINER	CHILLED & CONDENSER WATER	NIBCO CLASS 125 Y STRAINER	4" FLANGED 67 LBS	WITH STAINLESS STEEL 20 MESH SCREEN WITH 1" FULL PORT VALVE ON BLOWDOWN PIPE BLOWDOWN TO FLOOR SINK	NA

CHILLER SCHEDULE

OITILL		' L L																		
TAG	MANF. & MODEL	EER	IPLV (ARI)	CAPACITY (TON:	S) EVAPOR	RATOR		CON	NDENSE	:R			ELECTRIC	CAL DATA		UNIT OPER.	SCROLL	OPTIONS		ANCHORAGE DETAIL
					EWT	LWT	FLOWRATE P.D. FT.	EW	T LW1	FLOWRATE	P.D. FT.	VOLTAGE	PHASE	MCA	MOCP	WEIGHT	COMPRESSORS		DUAL POINT POWER CONNECTIONS W/ CIRCUIT BREAKERS	2/M4
CH	QUANTECH	16.2	21.2	93	55	45	300 14	85	95	278	14	208	3	130	150	5648 LBS	2		SUCTION INSULATION , SUCTION SERVICE VALVE	
1	QWC3100TSE					•						208	3	130	150				BACNET COMMUNICATION	

PUMP SCHEDULE

TAG	SERVICE MANF. & MODEL	HP	ELEC	GPM @ HEAD	WEIGHT	VF DRIVE	ANCHORAGE DETAIL
P-1	CHILLED GRUNDFOS	5	208/3/60	300 @ 40 FT	215 LBS	ABB ACH 550-VCR-017A-2	4/M4
	WATER NBS 030-070-4P						
P-2	CONDENSER GRUNDFOS	7.5	208/3/60	278 @ 55 FT	382 LBS	ABB ACH 550-VCR-024A-2	4/M4
	WATER NBS 025-095-4P						

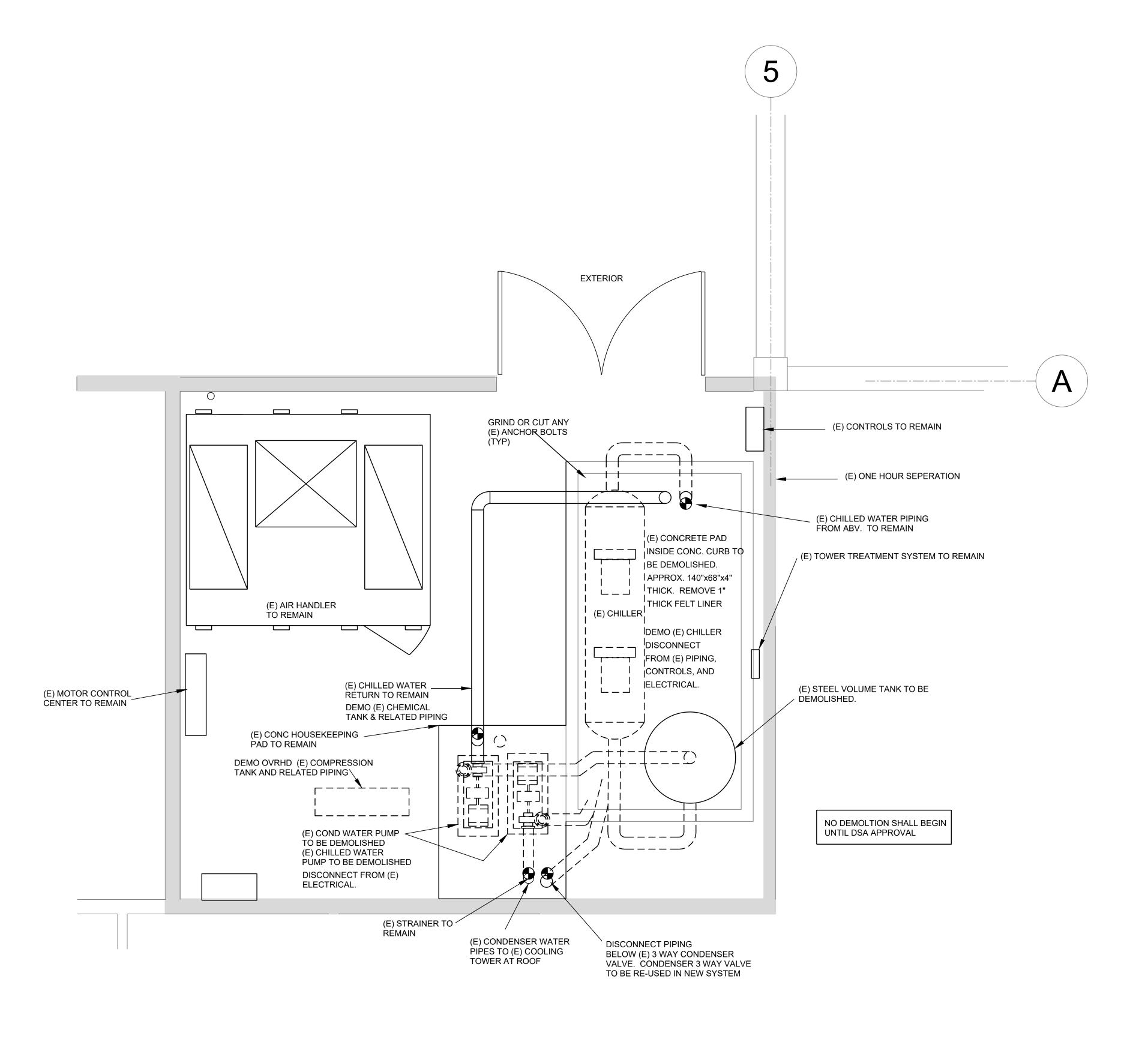






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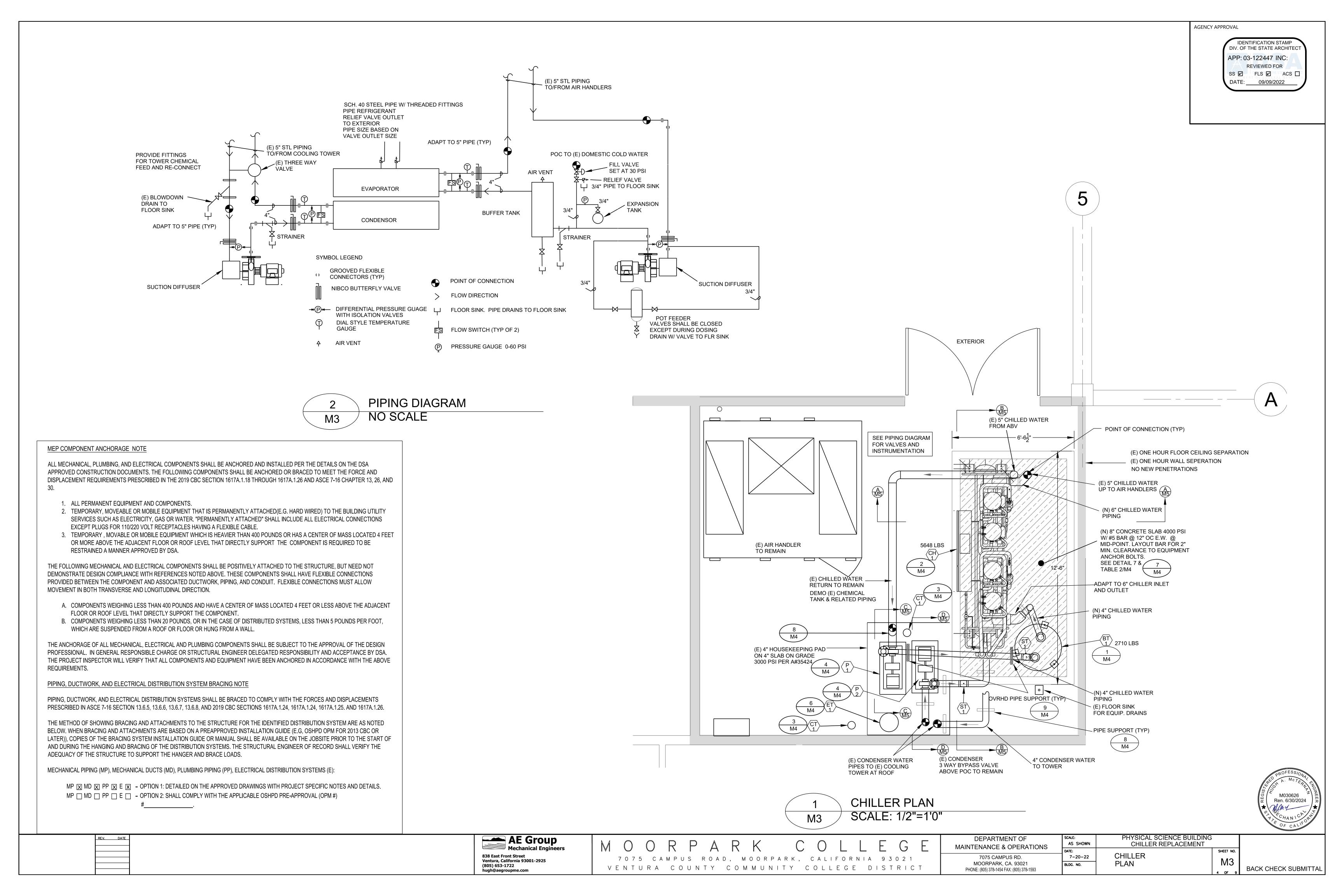


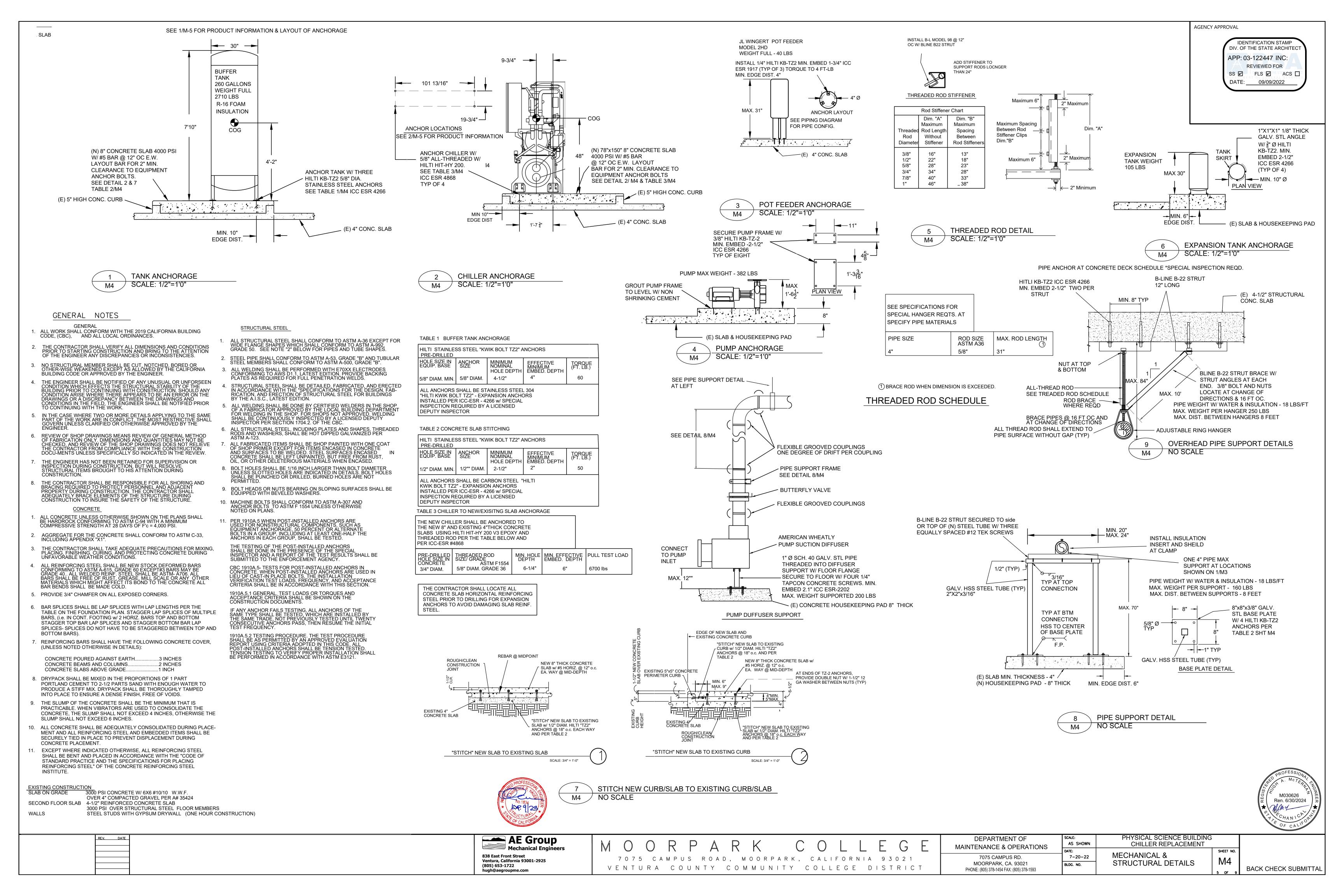


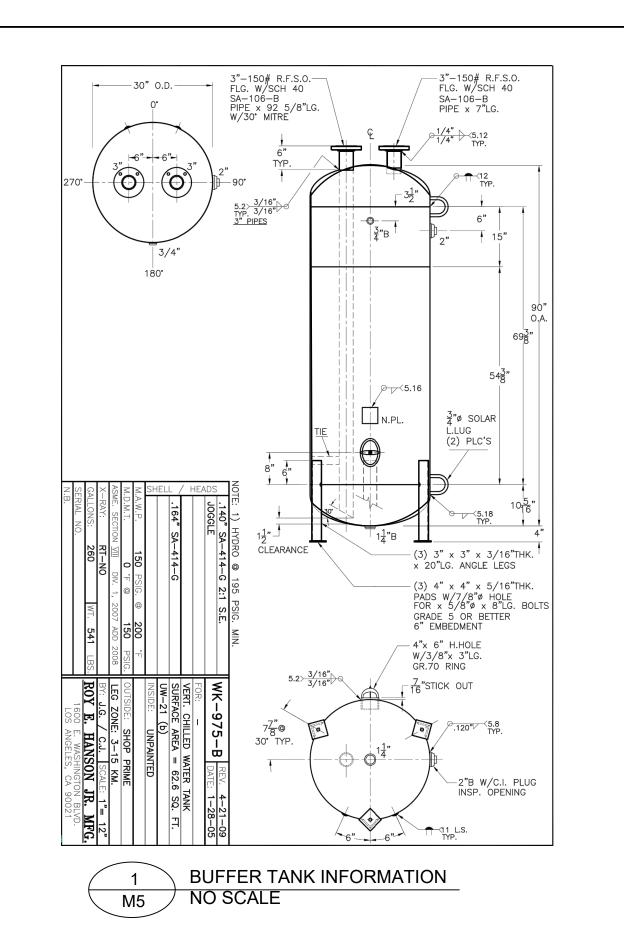
1 CHILLER DEMOLITION PLAN
M2 SCALE: 1/2"=1'0"



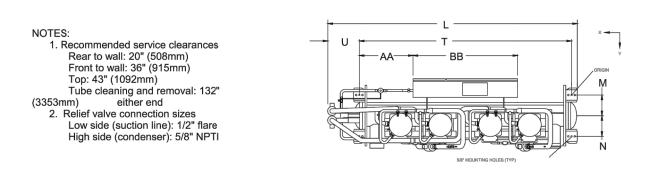
AE Group	IMOORPARK COLIFGE	DEPARTMENT OF MAINTENANCE & OPERATIONS	SCALE: AS SHOWN	PHYSICAL SCIENCE BUILDING CHILLER REPLACEMENT	
Mechanical Engineers 838 East Front Street Ventura, California 93001-2925 (805) 653-1722 hugh@aegroupme.com	7075 CAMPUS ROAD, MOORPARK, CALIFORNIA 93021 VENTURA COUNTY COMMUNITY COLLEGE DISTRICT	7075 CAMPUS RD.	DATE: 7-20-22 BLDG. NO.	CHILLER	M2 S OF 9 BACK CHECK SUBMITTAL
			•		

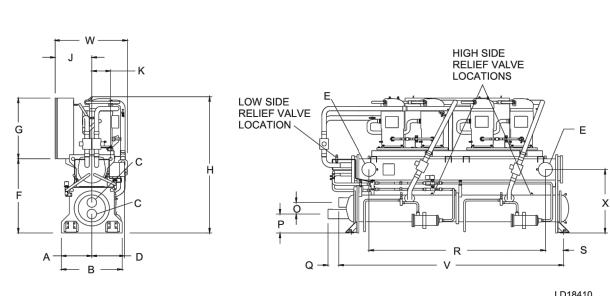






Unit Dimensions - Four Compressor (Cont'd)

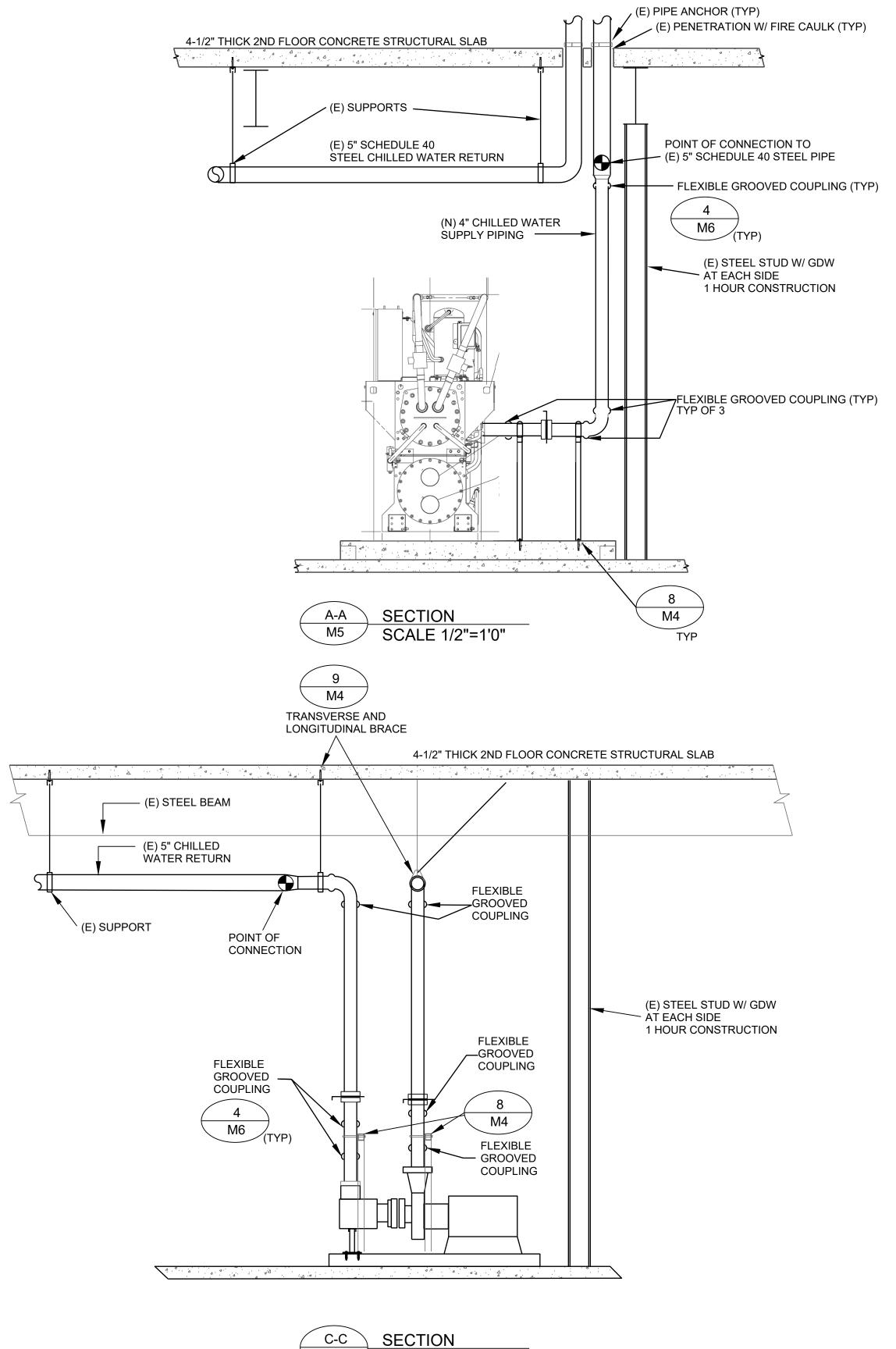




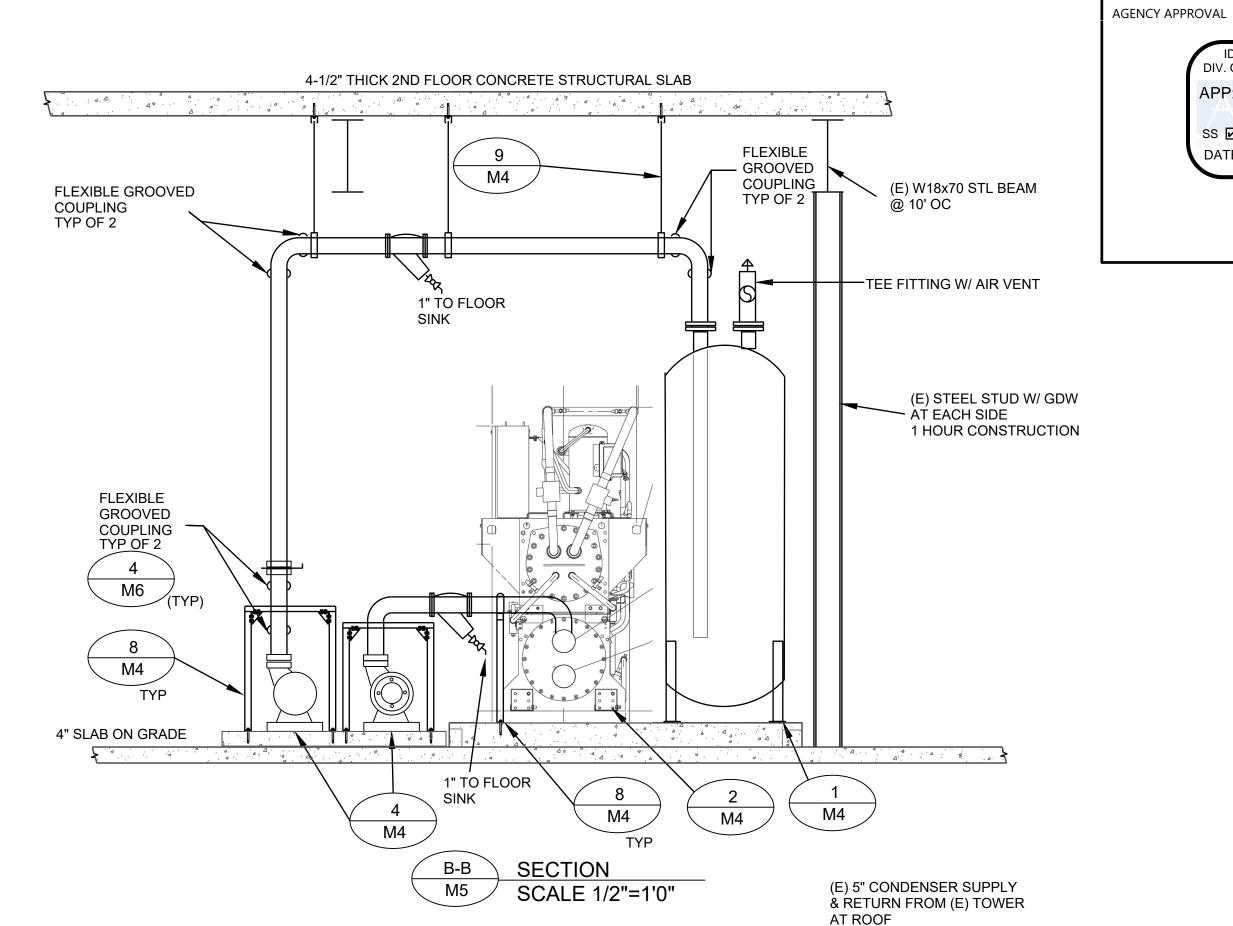
Unit Dimensions - Four Compressor

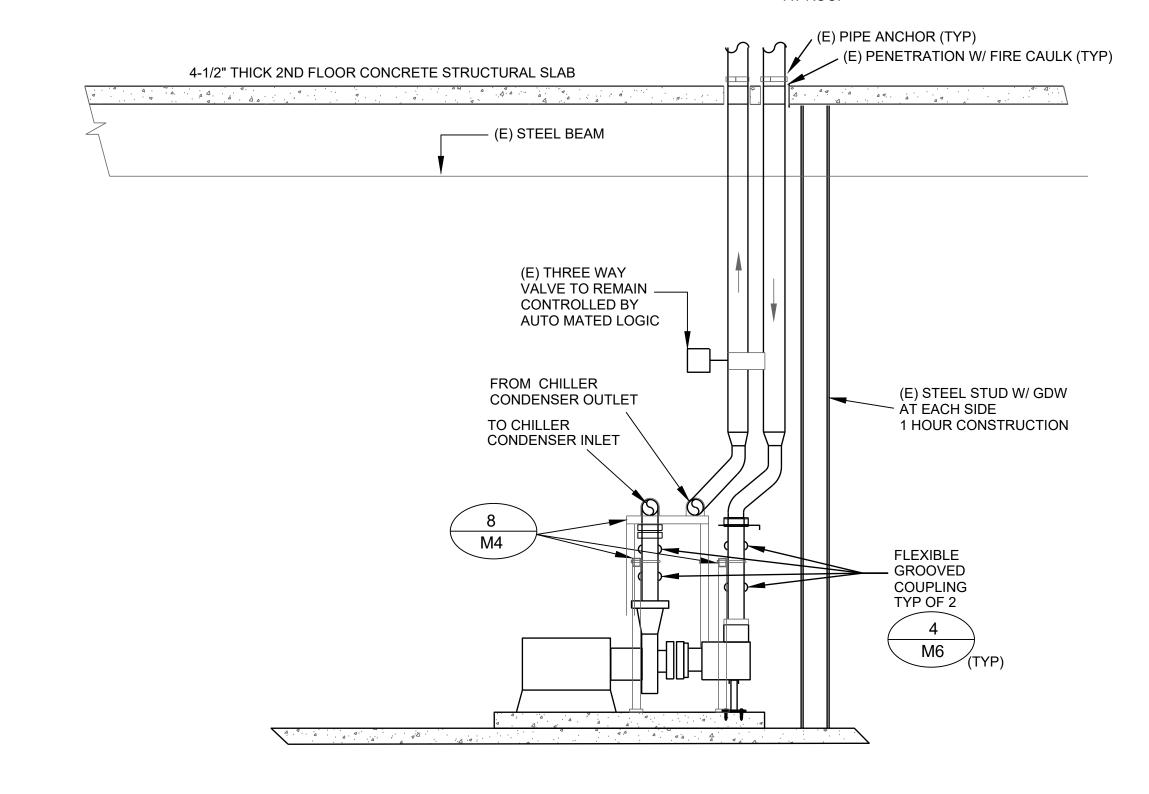
				•					
			STA	ANDARD EF	FICIENCY (ŝE)			
YCWL	0056SE	0064SE	0074SE	0084SE	0094SE	0104SE	0118SE	0132SE	0157SE
W	34 5/8	34 5/8	33 13/16	33 13/16	33 13/16	33 13/16	33 13/16	33 13/16	34 13/16
Н	64 15/32	64 15/32	68 29/32	68 29/32	72 9/32	71 25/32	71 25/32	74 1/2	76 17/32
H*	_	_	70 1/2	70 1/2	_	73 1/2	73 1/2	_	_
H**	_	_	70 1/2	70 1/2	_	73 1/2	75	75	_
L	119 5/8	119 5/8	125 15/16	125 15/16	125 15/16	124 1/8	124 1/8	123 5/16	143 7/16
Α	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	14 1/2	15
В	29	29	29	29	29	29	29	29	30
С	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	5 9/16	5 9/16
D	15 17/32	15 17/32	15 17/32	15 17/32	11 25/32	15 17/32	15 17/32	16 1/32	16 1/32
Е	6 5/8	6 5/8	6 5/8	6 5/8	6 5/8	6 5/8	6 5/8	8 5/8	8 5/8
F	35 15/32	35 15/32	35 15/32	35 15/32	35 15/32	38 1/2	38 1/2	40	41
G	29	29	29	29	29	29	29	29	29
J	17 11/16	17 11/16	17 11/16	17 11/16	17 11/16	17 11/16	17 11/16	17 11/16	17 11/16
K	8 15/16	8 15/16	8 15/16	8 15/16	12 1/4	12 1/4	12 1/4	12 3/4	17 25/32
М	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	10 3/8
N	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	10 3/8
0	5 1/2	5 1/2	5 1/2	7 1/8	7 1/8	7 1/8	7 1/8	8 1/8	8 5/8
Р	9 1/8	9 1/8	9 1/8	8 3/8	8 3/8	8 3/8	8 3/8	7 7/8	8 1/2
Q	5 1/8	5 1/8	5 1/8	5 1/8	5 1/8	5 1/8	5 1/8	5 7/32	5 3/16
R	84 1/2	84 1/2	84 1/2	84 1/2	85	85	85	83	102
S	8 21/32	8 21/32	8 21/32	8 21/32	8 13/32	8 13/32	8 13/32	9 13/32	11 29/32
Т	101 13/16	101 13/16	101 13/16	101 13/16	101 13/16	101 13/16	101 13/16	101 13/16	125 13/16
U	15 1/16	15 1/16	21 3/8	21 3/8	21 3/8	19 9/16	19 9/16	18 3/4	14 7/8
V	107 25/32	107 25/32	107 25/32	107 25/32	107 25/32	107 25/32	107 25/32	108 7/32	132 23/32
Χ	30 3/8	30 3/8	30 3/8	30 3/8	32	32	32	33 1/4	36 1/4
AA	25 29/32	25 29/32	25 29/32	25 29/32	25 29/32	25 29/32	25 29/32	25 29/32	35 17/32
BB	50	50	50	50	50	50	50	50	50

CHILLER PRODUCT INFORMATION NO SCALE













IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITEC

REVIEWED FOR SS ☑ FLS ☑ ACS □

APP: 03-122447 INC:

DATE: 09/09/2022

AE Group

Mechanical Engineers 838 East Front Street Ventura, California 93001-2925 (805) 653-1722 hugh@aegroupme.com

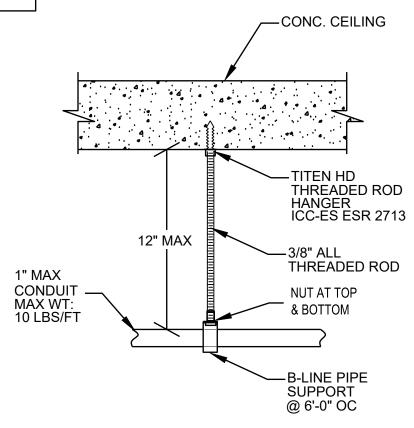
7075 CAMPUS ROAD, MOORPARK, CALIFORNIA 93021 VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

DEPARTMENT OF AS SHOWN MAINTENANCE & OPERATIONS 7-20-22 7075 CAMPUS RD. MOORPARK, CA. 93021 PHONE: (805) 378-1454 FAX: (805) 378-1593

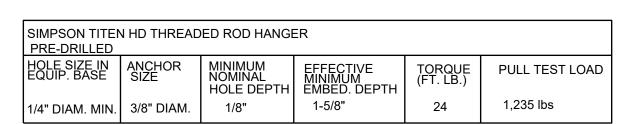
PHYSICAL SCIENCE BUILDING CHILLER REPLACEMENT CHILLER PRODUCT INFORMATION

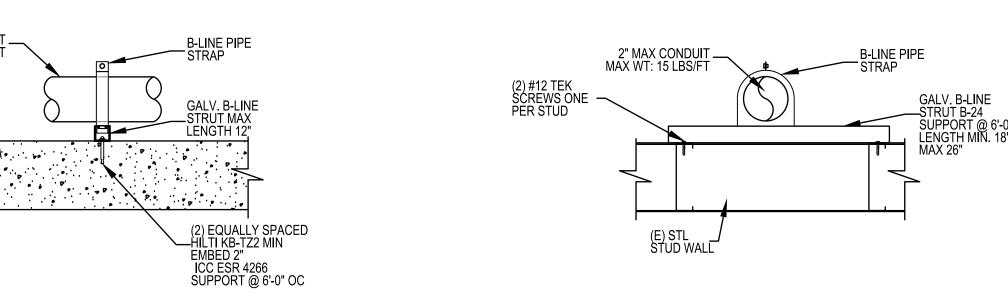
BACK CHECK SUBMITTAL

THE CONTRACTOR SHALL LOCATE ALL CONCRETE SLAB HORIZONTAL REINFORCING STEEL PRIOR TO DRILLING FOR EXPANSION ANCHORS TO AVOID DAMAGING SLAB REINF. STEEL.



CONDUIT CEILING SUPPORT





ictaulic







NO SCALE

M6





³/₄ – 12"/DN20 – DN300 sizes 14 – 24"/DN350 – DN600 sizes

1.0 PRODUCT DESCRIPTION

Available Sizes

• ¾ – 24"/DN20 – DN600 Maximum Working Pressure

- Accommodates pressures ranging from full vacuum (29.9 in Hg/760 mm Hg) up to 1000 psi/6894 kPa.
- Working pressure dependent on material, wall thickness and size of pipe.

Application

- Joins standard roll grooved and cut grooved pipe, as well as grooved fittings, valves and accessories.
- Provides a flexible pipe joint which allows for expansion, contraction and deflection.
 Operating temperature dependent upon gasket and/or seal selection see Section 3.0.
- Exclusively for use with pipe and Victaulic products which feature ends formed with the Victaulic OGS groove profile (See section 7.0 for Reference Materials).

Pipe Material

• For use with stainless steel pipe, refer to Victaulic <u>publication 17.09</u> for pressure ratings and end loads.

Carbon steel.

2.0 CERTIFICATION/LISTINGS



NOTE
See <u>publication 02.06</u>: Victaulic Potable Water Approvals ANSI/NSF for potable water approvals if applicable.

ALWAYS REFER TO ANY NOTIFICATIONS AT THE END OF THIS DOCUMENT REGARDING PRODUCT INSTALLATION, MAINTENANCE OR SUPPORT.

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3.0 MATERIAL SPECIFICATIONS

(E) 4" CONC. SLAB-

Housing: Ductile iron conforming to ASTM A536, Grade 65-45-12. Ductile iron conforming to ASTM A395, Grade 65-45-15, is available upon special request.

CONDUIT FLOOR SUPPORT

Housing Coating: (specify choice)

- Standard: Orange enamel.Optional: Hot dipped galvanized and others.
- Optional: Contact Victaulic with your requirements for other coatings.

Gasket: (specify choice¹)

☐ Grade "E" EPDM

- EPDM (Green stripe color code). Temperature range –30°F to +230°F/–34°C to +110°C. May be specified for cold and hot water service within the specified temperature range plus a variety of dilute acids, oil-free air and many chemical services. UL Classified in accordance with ANSI/NSF 61 for cold +73°F/+23°C and hot +180°F/+82°C potable water service and ANSI/NSF 372. NOT COMPATIBLE FOR PETROLEUM SERVICES OR STEAM SERVICES.
- ☐ Grade "T" Nitrile
- Nitrile (Orange stripe color code). Temperature range -20°F to +180°F/-29°C to +82°C. May be specified for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Not compatible for hot water services over +150°F/+66°C or for hot dry air over +140°F/+60°C.
- □ Others
- For alternate gasket selection, reference <u>publication 05.01</u>: Victaulic Seal Selection Guide Elastomeric Seal
- Construction.
- Services listed are General Service Guidelines only. It should be noted that there are services for which these gaskets are not compatible. Reference should always be made to the latest <u>Victaulic Seal Selection Guide</u> for specific gasket service guidelines and for a listing of services which are not compatible.

Bolts/Nuts: (specify choice²)

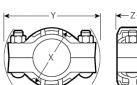
Optional bolts/nuts are available in imperial size only.

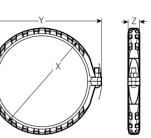
- Standard: Carbon steel oval neck track bolts meeting the mechanical property requirements of ASTM A449 (imperial) and ISO 898-1 Class 9.8 (M10-M16) Class 8.8 (M20 and greater). Carbon steel hex nuts meeting the mechanical property requirements of ASTM A563 Grade B (imperial heavy hex nuts) and ASTM A563M Class 9 (metric hex nuts). Track bolts and hex nuts are zinc electroplated per ASTM B633 ZN/FE5, finish Type III (imperial) or Type II (metric)
- Optional: Stainless steel oval neck track bolts meeting the mechanical property requirements of ASTM F593, Group 2 (316 stainless steel), condition CW. Stainless steel heavy hex nuts meeting the mechanical property requirements of ASTM F594, Group 2 (316 stainless steel), condition CW, with galling reducing coating.

victaulic.com 4.0 DIMEN

Style 77

4.0 DIMENSIONS





 ¾ - 12"/DN20 - DN300 sizes
 14 - 24"/DN350 - DN600 sizes

 Pipe End
 Deflection from

S	ize	Separation ³	Cento	erline ³		Bolt/Nut		Weig		
Nominal	Actual Outside Diameter	er Allowable Per Cplg.		Pipe	Qty.	Size	x	Y	z	Appr (Eac
inches DN	inches mm	inches mm	Degrees	inches/ft. mm/m		inches	inches mm	inches mm	inches mm	lb kg
³¼ DN20	1.050 26.7	0-0.06 0-1.6	3°–24′	0.72 60	2	3% x 2	2.13 54	4.00 102	1.75 44	1.
1 DN25	1.315 33.7	0–0.06 0–1.6	2°–43′	0.57 48	2	3% x 2	2.38 61	4.12 105	1.75 44	1.2
1¼ DN32	1.660 42.2	0-0.06 0-1.6	2°-10′	0.45 38	2	½ x 2½	2.65 67	5.00 127	1.88 48	2.0
1½ DN40	1.900 48.3	0-0.06 0-1.6	1°–56′	0.40 33	2	½ x 2½	3.13 79	5.38 137	1.88 48	2. 1.
2 DN50	2.375 60.3	0-0.06 0-1.6	1º-31′	0.32 26	2	½ x 2½	3.63 92	5.88 149	1.88 48	2.0 1
	2.664 57.0	0-0.06 0-1.6	1°–34′	0.33 27	2	½ x 2½	3.43 87	5.73 146	1.90 48	3.0 1.4
21/2	2.875 73.0	0-0.06 0-1.6	1°–15′	0.26 22	2	½ x 2¾	4.25 108	6.50 165	1.88 48	3. ²
DN65	3.000 76.1	0-0.06 0-1.6	1°–12′	0.26 22	2	½ x 2¾	4.38 111	6.63 168	1.88 48	3.: 1.:
3 DN80	3.500 88.9	0-0.06 0-1.6	1°–2′	0.22 18	2	½ x 2¾	5.00 127	7.13 181	1.88 48	3.7 1.7
3½ DN90	4.000 101.6	0–0.06 0–1.6	0°–54′	0.19 16	2	% x 3¼	5.63 143	8.25 210	1.88 48	5.6 2.5
4 DN100	4.500 114.3	0-0.13 0-3.2	1°–36′	0.34 28	2	5/8 x 31/4	6.13 156	8.88 226	2.13 54	6.7 3.0
	4.250 108.0	0-0.13 0-3.2	1°–41′	0.35 29	2	16 x 82.5	6.00 152	8.63 219	2.13 54	11. 5.0
5	5.563 141.3	0-0.13 0-3.2	1º–18′	0.27 23	2	2- ³ / ₄ x 4 ¹ / ₄	7.75 197	10.65 270	2.13 54	10. 4.8

Allowable Pipe End Separation and Deflection figures show the maximum nominal range of movement available at each joint for standard **roll** grooved pipe. Figures for standard **cut** grooved pipe may be doubled. These figures are maximums; for design and installation purposes these figures should be reduced by: 50% for ¾ – 3 ½"/DN20 – DN90; 25% for 4"/DN100 and larger.

Metric thread size bolts are available (color coded gold) for all coupling sizes upon request. Contact Victaulic for details.

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4 FLEXIBLE COUPLING CUT SHEET

M6 NO SCALE

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SHEET NO.

AGENCY APPROVAL

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REVIEWED FOR

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APP: 03-122447 INC:

DATE: 09/09/2022

AE Group
Mechanical Engineers

838 East Front Street
Ventura, California 93001-2925
(805) 653-1722
hugh@aegroupme.com

MOORPARK, CALIFORNIA 93021
VENTURA COUNTY COMMUNITY COLLEGE DISTRICT

DEPARTMENT OF

MAINTENANCE & OPERATIONS

7075 CAMPUS RD.

MOORPARK, CA. 93021
PHONE: (805) 378-1454 FAX: (805) 378-1593

SCALE: PH'
AS SHOWN

DATE:
7-20-22 CONDUI
BLDG. NO. & CUT S

PHYSICAL SCIENCE BUILDING
CHILLER REPLACEMENT
CONDUIT DETAIL
& CUT SHEETS

BACK CHECK SUBMITTAL

REV. DATE

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DIV. OF THE STATE ARCHITECT

APP: 03-122447 INC:

REVIEWED FOR
SS FLS ACS
DATE: 09/09/2022

ate of california 1echanical Systems			STATE OF CALIFORNIA Mechanical Systems			STATE OF CALIFORNIA Mechanical Systems		
CC-MCH-E		CALIFORNIA ENERGY COMMISSION	NRCC-MCH-E		CALIFORNIA ENERGY COMMISSION	NRCC-MCH-E		CALIFORNIA ENERGY COM
ITIFICATE OF COMPLIANCE	anical systems that are within the scene of the normit applic	NRCC-MCH-E	CERTIFICATE OF COMPLIANCE Project Name: Moorpark College Physical Science Building C	Chiller Penlacement Penert Page	NRCC-MCH-E	CERTIFICATE OF COMPLIANCE Moorpork College Physical Science Building Cl	hiller Penlacement Penert Page	NF (B
h outlined in <u>§140.4</u> , or <u>§141.0(b)2</u> for alterations.	ianical systems that are within the scope of the permit applica	ation and are demonstrating compliance using the prescriptive		7075 Campus Road Date Prepared:	(Page 2 of 7) 7/21/2022	Project Name: Moorpark College Physical Science Building Cl Project Address: 7	7075 Campus Road Date Prepared:	(P
	Science Building Chiller Replacement Report Page:	(Page 1 of 7)						
ect Address:	7075 Campus Road Date Prepared:	7/21/2022	C. COMPLIANCE RESULTS			G. PUMPS		
GENERAL INFORMATION			Table C will indicate if the project data input into the compliance document	nt is compliant with mechanical requirements. This table is	not editable by the user. If this table says "DOES	This table is used to demonstrate compliance with Prescriptive hydronic syst	tem requirements found in §140.4(k) applicable to pumps	s < 5hp.
Project Location (city)	Moorpark 04 Total Conditioned Flo	por Area 0	NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D.,)., or the table indicated as not compliant for guidance.		01 02 03 04 0	05 06	07 08
Climate Zone	9 05 Total Unconditioned	Floor Area 0	01 02 03 04 System	05 06 0	08 09	Name or Item	Controls per <u>§140.4</u>	THE A.
Occupancy Types Within Project:	06 # of Stories (Habitab		System Summary AND Dumps AND Fearnminers AND Controls	AND Ventilation AND Terminal Box AND Distril	bution AND Cooling Towers	I I Equipment Type I QtV I HP I	ble Flow Hydronic Heat Pump Isolation VS	SD on Pumps > 5HP Differential
Office (B)			§110.1, S140.4(k) S140.4(c) §110.2,	1 \$120.1		CHW Primary chilled water 1 5 NA: <=3 co	ontrol valves NA: No hydronic heat pump NA: Not se	1074-4001-000
Hotel/ Motel Guest Rooms (R-1) ☐ School High-Rise Residential (R-2/R-3) ☐ Reloc	ol (E)	See Table J	\$110.2, \$140.4(e) \$120.2, \$140.4(f)	§140.4(d) §140	<u></u>		ontrol valves NA: No hydronic heat pump NA: Not se	
Thigh this Residential (N 2/N 3)	Stable class blag (L)	See lable 3	(See Table F) (See Table G) (See Table H) (See Table I	I) (See Table J) (See Table K) (See T	able L) (See Table M)	LL FAN SYSTEMS & AIR ECONOMIZERS		
PROJECT SCOPE			Yes AND Yes AND AND	AND AND AND	AND COMPLIES	H. FAN SYSTEMS & AIR ECONOMIZERS This section does not apply to this project		
	are within the scope of the permit application and are demo	nstrating compliance using the prescriptive path outlined in	Mandatory Measures Complia	ance (See Table Q for Details)	COMPLIES	This section does not apply to this project.		
1 <u>0.4</u> , or <u>§141.0(b)2</u> for alterations.	02	03	D. EXCEPTIONAL CONDITIONS			I. SYSTEM CONTROLS		
Air System(s)	Wet System Components	Dry System Components	This table is auto-filled with uneditable comments because of selections ma	nade or data entered in tables throughout the form.		This section does not apply to this project.		
☐ Heating Air System	☐ Water Economizer	☐ Air Economizer				L VENTUATION AND INDOOR AIR CHALITY		
☐ Cooling Air System	⊠ Pumps	☐ Electric Resistance Heat	E. ADDITIONAL REMARKS			J. VENTILATION AND INDOOR AIR QUALITY This section does not apply to this project.		
Mechanical Controls	☐ System Piping	☐ Fan Systems	This table includes remarks made by the permit applicant to the Authority	Having Jurisdiction.		This section does not apply to this project.		
Mechanical Controls (existing to remain, altered	d Cooling Towers	☐ Ductwork (existing to remain, altered or new)	F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)			K. TERMINAL BOX CONTROLS		
or new)	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	☐ Ventilation	This table is used to demonstrate compliance for mechanical equipment wi	vith mandatory reauirements found in 6110.1, and 6110.2	(a) and prescriptive requirements found in 8140 4(a)	This section does not apply to this project.		
	Boilers	Zonal Systems/ Terminal Boxes	\$140.4(b) and \$140.4(k) or \$141.0(b)2 for alterations.	did <u>Silve</u>		L DISTRIBUTION (BUSTMORY 12/2003)		
		, , , , , , , , , , , , , , , , , , , ,	Chiller Efficiency and Controls			L. DISTRIBUTION (DUCTWORK and PIPING)		
			01 02 03 04	05 06 07	08 09 10	This section does not apply to this project.		
			I I Fallinment Ivne I 5 , I	ler Efficiency "Path B" Rated Minimum Efficienc	' I loolation Tomomometume	M. COOLING TOWERS		
			Tag Equipment Type (tons) Exce	ception per <u>§140.4(i)</u> Efficiencies Required per <u>§110</u>	Unit Isolation Temperature Reset	This section does not apply to this project.		
			Air Cooled:	16.2 >=9.700 EER	EER NA: <=500,00			
			I I I I I I I I I I I I I I I I I I I	No Exception Taken 21.1 >=15.800 IPLV	Yes Btu/h (41.67 tons)			
			operated 1500TNOTES. Chilled water plants shall not have more than 200 tone provide					
			¹ FOOTNOTES: Chilled water plants shall not have more than 300 tons provi	naea by air-coolea chillers. Exceptions may apply per fact2	412]/]140.4(]).			
								Danistantian Danidan
stration Number:	Registration Date/Time:	Registration Provider: Energysoft	Registration Number:	Registration Date/Time:	Registration Provider: Energysoft	Registration Number:	Registration Date/Time:	Registration Provider:
	empliance Report Version: 2019.1.003	Registration Provider: Energysoft Report Generated: 2022-07-21 10:48:32	Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003	Registration Provider: Energysoft Report Generated: 2022-07-21 10:48:32	Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003	
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A Building Energy Efficiency Standards - 2019 Nonresidential Co	empliance Report Version: 2019.1.003		CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003	-	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003	
Building Energy Efficiency Standards - 2019 Nonresidential Co	empliance Report Version: 2019.1.003	Report Generated: 2022-07-21 10:48:32		Report Version: 2019.1.003	Report Generated: 2022-07-21 10:48:32		Report Version: 2019.1.003	Report Generated: 2022-07-2
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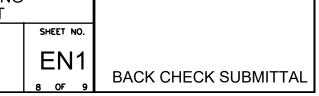








PHYSICAL SCIENCE BUILDING CHILLER REPLACEMENT ENERGY NOTES



NRCC-MCH-E	O'ALII O'ATA	ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
Project Name: Moorpark College Physical Science Building Chil		(Page 7 of 7
Project Address: 70	175 Campus Road Date Prepared:	7/21/2022
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT		
I certify that this Certificate of Compliance documentation is accurate	e and complete.	
Documentation Author Name: Jose Sanchez	Documentation Author Signature:	
Company:	Signature Date:	
AE Group Mechanical Engineers, Inc.	2022-07-21	
Address: 838 East Front Street	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip: Ventura CA 93003	Phone: 8056531722	
plans and specifications submitted to the enforcement agency for approval with this 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be inspections. I understand that a completed signed copy of this Certificate of Compliance	made available with the building permit(s) issued for the building, and made available to the enforcement ance is required to be included with the documentation the builder provides to the building owner at occurrence in the building owner at occ	agency for all applicable
Responsible Designer Name: Hugh Mcternan	Responsible Designer Signature:	
Company:	Date Signed: 2022-07-21	
AE Group Mechanical Engineers, Inc.		
• •	License: M030626	
AE Group Mechanical Engineers, Inc. Address:		
AE Group Mechanical Engineers, Inc. Address: 838 E Front Street City/State/Zip:	M030626 Phone: 805-653-1722	tion Provider: Energysoft

Schema Version: rev 20200601

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT

APP: 03-122447 INC:

REVIEWED FOR

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AE Group Mechanical Engineers	M	ĺ	0	(C	R		P		A		K		(-)	=			E	G	E
838 East Front Street Ventura, California 93001-2925 (805) 653-1722	V	7 F 1	0 7 N T	5 U F	C A			S U N						R K · Y								0 2 1 R I (
hugh@aegroupme.com	V	_ '	N 1	0 1	` ^	C	O	0 11	'	1) V	IVI	0 1	 '	C	0 1	- L	 G L	-	י ט	5 1	11 1	ا ر