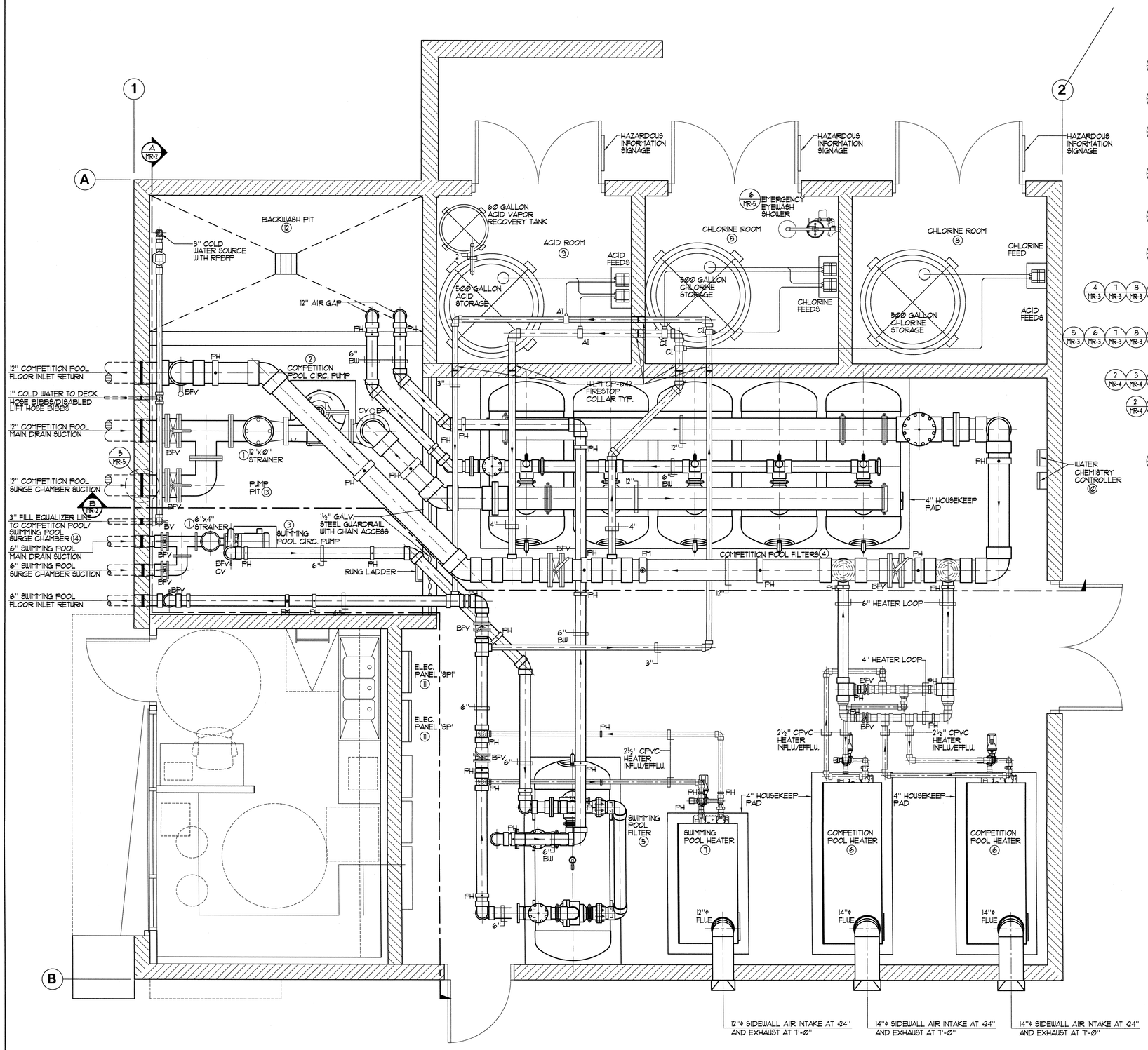

EQUIPMENT LIST

(1) COMPETITION POOL/SWIMMING POOL STRAINER(S): 'MER-MADE' F.O. SERIES FRP REDUCING BASKET STRAINER: ONE (1) 12"x10" AND ONE (1) 6"x4" STANDARD, WITH ACRYLIC LID AND TWO (2) STAINLESS STEEL STRAINERS EA. (150lbs.) TWO (2) TOTAL.

(3) MR-3 (2) MR-4 (2) COMPETITION POOL CIRCULATION PUMP: 'PACO' #0015-3 OR 4; 8"x10"x15" TYPE 'KPV' SPLIT CASE CENTRIFUGAL PUMP; 1150 RPM 460V, 3PH, 40HP; RATED AT 1810 GPM @ 60 FT. TDH; 90% EFFICIENT; PREMIUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. 'PACO', 'AURORA' OR EQUAL. (2300 lbs.)

(2) MR-4 (7) MR-5 (3) SWIMMING POOL CIRCULATION PUMP: 'PACO' #3035-7; 3"x4"x9½" TYPE 'LC' BRONZE FITTED, STAINLESS STEEL SHAFT END SUCTION PUMP; 1750 RPM 460V, 3PH; 7½HP; RATED AT 350 GPM @ 60 FT. TDH; 77% EFFICIENT; PREMIUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. 'PACO', 'AURORA' OR EQUAL. (300 lbs.)

(1) MR-3 (2) MR-4 (4) COMPETITION POOL FILTERS: 'EKO' SYSTEMS' #42-250-5 AUTOMATIC FILTER CONTROL (AFC) FULLY AUTOMATIC HI-RATE PERMANENT MEDIA FILTER WITH 125 SQ. FT. OF FILTER AREA RATED AT 1875 GPM AT 15 GPM/SQ. FT. COMPLETE WITH 12" FACE PIPING, 6" BACKWASH, SEISMIC ANCHORAGE. PROVIDE ALL UTILITIES, PIPING, VALVING, ETC. (6,516lbs EACH TANK) 'EKO', 'NEMATO', OR EQUAL. PROVIDE SIGNET MK-515 FLOSENSOR WITH DIGITAL READ-OUT.

(1) MR-3 (2) MR-4 (5) EXIST. SWIMMING POOL FILTER: 'EKO' SYSTEMS' #42-310-1 AUTOMATIC FILTER CONTROL (AFC) FULLY AUTOMATIC HI-RATE PERMANENT MEDIA FILTER WITH 25 SQ. FT. OF FILTER AREA RATED AT 465 GPM AT 15 GPM/SQ. FT. COMPLETE WITH 6" FACE PIPING, 6" BACKWASH, SEISMIC ANCHORAGE. PROVIDE ALL UTILITIES, PIPING, VALVING, ETC. (1,980lbs) 'EKO', 'NEMATO', OR EQUAL. PROVIDE SIGNET MK-515 FLOSENSOR WITH DIGITAL READ-OUT.

(2) MR-3 (2) MR-4 (6) COMPETITION POOL HEATER(S): 'LOCHINVAR' #CFN2071, 2,070,000 BTU INPUT, 2" GAS CONNECTION, 2½" WATER INFLUENT/EFFLUENT CONNECTIONS COPPER FIN II HEATER(S) AND 14"ϕ SIDEWALL INTAKE AND EXHAUST WITH CATEGORY IV DOUBLE WALL VENTING WITH DRAIN. TWO (2) TOTAL. PIPED IN TANDEM PER MANUFACTURER'S RECOMMENDATIONS. (1,400lbs. EA.)

(2) MR-3 (2) MR-4 (7) SWIMMING POOL HEATER(S): 'LOCHINVAR' #CFN144, 1,440,000 BTU INPUT, 2" GAS CONNECTION, 2½" WATER INFLUENT/EFFLUENT CONNECTIONS COPPER FIN II HEATER(S) AND 12"ϕ SIDEWALL INTAKE AND EXHAUST WITH CATEGORY IV DOUBLE WALL VENTING WITH DRAIN. ONE (1) TOTAL. PIPED PER MANUFACTURER'S RECOMMENDATIONS. (1,130lbs.)

(4) MR-3 (7) MR-3 (8) MR-3 (9) MR-3 (2) MR-4 (8) CHLORINE STORAGE/FEED SYSTEM(S): PROVIDE TWO (2) 'CHEM-TAINER' 500 GALLON #TC597IDC; DUAL STORAGE/CONTAINMENT TANK WITH LID SEISMICALLY RESTRAINED; (4,165lbs.) COMPLIES WITH FED. REG #40CFR-264-193. COMPETITION POOL FEED PUMPS SHALL BE 'LMI' #SD43-88P-K51; 288 GPD @ 150 PSI TWO (2) TOTAL. SWIMMING POOL FEED PUMP SHALL BE LMI #C121-3625I; 96 GPD @ 100 PSI WITH FRP SHELF BRACKETS. HARD PIPE TO POINT OF INJECTION.

(5) MR-3 (6) MR-3 (7) MR-3 (8) MR-3 (9) MR-3 (2) MR-4 (9) ACID STORAGE/FEED SYSTEM: PROVIDE 'CHEM-TAINER' 500 GALLON #TC597IDC; DUAL STORAGE/CONTAINMENT TANK WITH LID SEISMICALLY RESTRAINED; (4,165lbs.) COMPLIES WITH FED. REG #40CFR-264-193. FEED PUMP SHALL BE 'LMI' #SD43-88P-K51; 288 GPD @ 150 PSI WITH FRP SHELF BRACKETS. ONE (1) TOTAL. SWIMMING POOL FEED PUMP SHALL BE LMI #B121-3925I; 60 GPD @ 100 PSI; HARD PIPE TO POINT OF INJECTION. PROVIDE A COMPLETE ACID VAPOR RECOVERY SYSTEM.

(2) MR-4 (3) MR-4 (8) MR-4 (1-4) MR-5 (10) WATER CHEMISTRY CONTROLLER(S): PROVIDE TWO (2) DEDICATED ANALOG TELEPHONE LINE FOR 'IMPACT' CS-IMPACT-FILTER(B)-APR WATER CHEMISTRY CONTROLLER. PROVIDE COMPLETE SYSTEM CONTROL PACKAGE. TWO (2) TOTAL.

(2) MR-4 (4) MR-4 (5) MR-4 (11) ELECTRICAL: PROVIDE ALL ELECTRICAL WIRING, CONDUIT, PANEL(S), STARTER/DISCONNECT INTERCONNECT(S) ETC. AS REQUIRED FOR PROPER EQUIPMENT INSTALLATION PER MANUFACTURERS RECOMMENDATIONS AND SHOP DRAWINGS. COORDINATE ALL WORK WITH OTHER TRADES AS REQUIRED. REFER TO ELEC. PLANS FOR ALL ADDITIONAL INFO.

(12) BACKWASH PIT: 6'-6"x13'-0"x5'-0" DEEP WITH 8"ϕ P-TRAP OUTLET TO SEWER. PROVIDE WATERPROOFING PER SPECIFICATIONS. COORDINATE WITH STRUCTURAL AND PLUMBING PLANS.

(6) MR-4 (7) MR-4 (13) PUMP PIT: 13'-0"x12'-10"x5'-0" DEEP. PROVIDE RUNG LADDER ACCESS AND 1½"ϕ GALV. STEEL GUARDRAIL. PROVIDE FLOOR DRAIN TO WASTE. PROVIDE WATERPROOFING PER SPECIFICATIONS. RUNG LADDER TO BE 'NEXTEP' MUT354.

(1) MR-4 (14) COMPETITION POOL/SWIMMING POOL FILL SYSTEM: 3" 'CLA-VAL' FILL SYSTEM FROM DOMESTIC SOURCE PROTECTED WITH REDUCED PRESSURE BACKFLOW PREVENTOR. PROVIDE 'HYTROL' # 124-01AKX-3" VALVE WITH CFI-KX FLOAT CONTROL IN 8" PVC STILLING WELL IN SURGE CHAMBER.

HEATER/GAS PIPING INSTALLATION NOTE

'LOCHINVAR' GAS FIRED POOL HEATER(S) INSTALLED ON A GAS SUPPLY SYSTEM UTILIZING A 2 PSI OR 5 PSI SUPPLY. GAS PRESSURE SHALL REQUIRE A REGULATOR TO REDUCE THE SUPPLY PRESSURE. A PROPERLY SIZED AND INSTALLED LOCK-UP-TYPE HIGH GAS PRESSURE REGULATOR (HGPR) SHALL BE USED TO REDUCE THE GAS PRESSURE AT THE UNIT INLET TO A MAXIMUM OF 10.5" WATER COLUMN.

'LOCHINVAR' RECOMMENDS THAT ANY REQUIRED LINE LOCK-UP-TYPE HIGH GAS PRESSURE REGULATOR BE INSTALLED WITH A MINIMUM OF 8 FEET TO 10 FEET OF PIPE FROM ITS DISCHARGE TO THE UNIT'S GAS INLET. IF A STRAIGHT DISTANCE OF GAS PIPE IS NOT AVAILABLE THE ADDITION OF A VERTICAL 'U' IN THE GAS PIPING DOWN STREAM FROM THE 'HGPR' CAN BE USED TO ACHIEVE THE 8 FEET TO 10 FEET OF DISTANCE.

THREE PHASE MOTOR LOADS AT 460V

COMPETITION POOL CIRCULATION PUMP: 40 HP @ 460V.	=	52 AMPS
SWIMMING POOL CIRCULATION PUMP: 7½ HP @ 460V.	=	11 AMPS
TOTAL AMPS	=	63 AMPS

LEGEND

BV	=	BALL VALVE
BFV	=	BUTTERFLY VALVE
CV	=	CHECK VALVE
FM	=	FLOWMETER
AI	=	ACID INJECTION
CI	=	CHLORINE INJECTION
PH	=	PIPE HANGER (8 MR-5)
FD	=	FLOOR DRAIN

PROJECT NORTH

TRUE NORTH

(1) MECHANICAL ROOM LAYOUT PLAN ½"=1'-0"

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LICENSED ARCHITECT LEON J. FERRIS 6/29/09 STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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DATE APR 0 9 2009

FILE NUMBER: 41-C1

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College of San Mateo
Site Package
San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date

Revision	Description	Date
	DSA SUBMITTAL	19 SEPT 2008
	DSA FINAL	09 APRIL 2009

Job. No.	27082.30
Date	09 APRIL 2009
Drawn by	NFC
Checked by	SJF
Scale	1/2"=1'-0"

MECHANICAL ROOM LAYOUT PLAN

MR-1