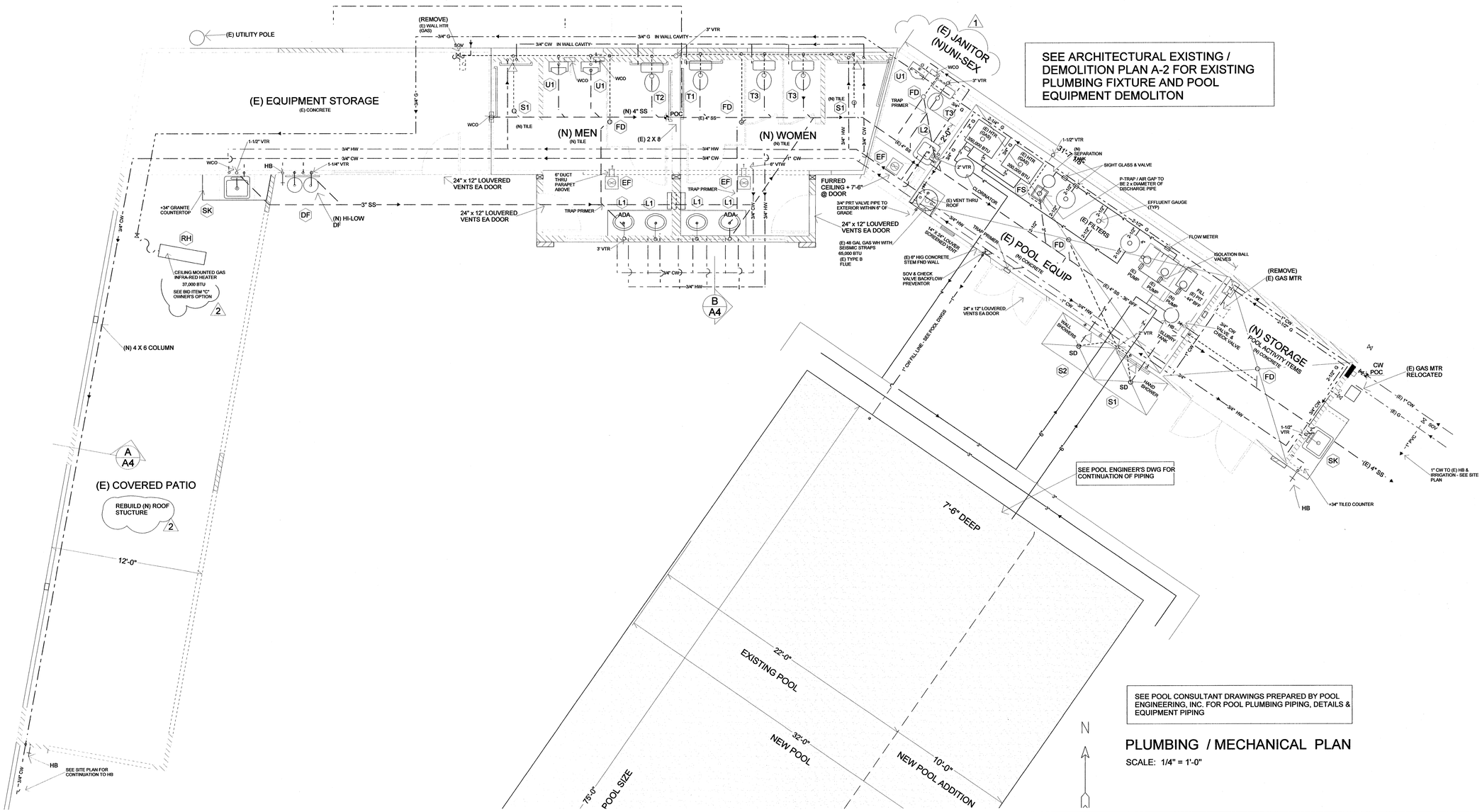

PLUMBING / MECHANICAL PLAN

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

COMBUSTION AIR REQUIREMENTS

PROVIDE COMBUSTION AIR IN ACCORDANCE WITH CMC 701.4.1: EACH OPENING WITH ONE 12" OF THE TOP CEILING AND ONE OPENING WITHIN 12" OF FLOOR @ 1 SQ IN PER 4,000 BTU/HR.

POOL EQUIPMENT ROOM	(GAS INPUT)
POOL HEATER	350,000 BTU
POOL HEATER	350,000 BTU
WATER HEATER	65,000 BTU
TOTAL:	765,000 BTU / 4,000 = 192 SQ IN EACH

PROVIDED: TOP - (1) 14" x 24" MTL SCREENED LOUVER = 336 SQ IN x .75 % = 252 SQ IN > 192 SQ IN
BOT: (2) 24" X 12" MTL SCREENED LOUVERS IN DOORS = 576 SQ IN x .75 = 432 SQ IN > 192 SC

POOL EQUIPMENT STORAGE
CMC 701.1 50 CF ROOM / 1000 BTU/HR
WALL FURNACE (E) 35,000 BTU / 1,000 = 35 x 50 CF = 1,750 CF
ROOM VOLUMN: 9.25 X 25 X 8 = 1,850 CF > 1,750 CF

RESTROOM VENTILATION REQUIREMENTS

PROVIDE MECHANICAL VENTILATION FAN(S) IN EACH RESTROOM PER CBC TABLE 4-4 AT RATE OF 70- CF / TOILET OR URINAL

FAN SIZE REQUIRED: 3 x 70 CFM = 210 CFM
ROOM VOLUMN: 145 SF X 8' = 1,160 CF
AIR CHANGE PER HR = 210 CFM X 60 = 12,600 CF / 1,160 = 10 / HR (NO REQUIREMENT)

FAN: INSTALL PANASONIC FV-30VQ3 EXHAUST FAN 290 CFM CONNECT TO OCCUPANCY SWITCH.

PLUMBING NOTES

1. DISCONNECT AND REMOVE ALL EXISTING WASTE, VENT AND WATER PIPING ABOVE GRADE AND CAP ANY ABANDONED PIPING BELOW GRADE.
2. NATURAL GAS PIPING: USE BLACK SCH 40 t & cAS IRON pIPE, 150# MALLABLE FITTINGS. VALVE - MILWAUKEE GAS COCK BA-100
3. WASTE (W) SANITARY SEWER (SS) & VENT PIPING: ABOVE GRADE USE NO HUB CAST IRON PIPE OR ABS & FITTINGS O/R DWV COPPER. BELOW GRADE USE DWV PIPE & FITTINGS.

   HOT WATER (HW) AND COLD WATER (CW) PIPE: USE TYPE "L" COPPER, 95/5 SOLDER. VALVES: USE 1/2 - 2" MILWAUKEE BA-150 BALL VALVE AND 2-1/2" & LARGER MILWAUKEE 115 GATE VALVE.
4. HOT WATER PIPE INSULATION: USE 1" FIBERGLAS INSULATION PER TITLE 24 ENERGY STANDARDS.
5. PROVIDE AND INSTALL MISC. ASSESSORIES FOR EACH FIXTURE FOR COMPLETE INSTALLATION, INCLUDING ANGLE STOPS. SUPPLY BRADED FLEX HOSE, P-TRAPS & FITTINGS, WAX SEALS & WC FLOOR FLANGES, CLEANOUTS AND WALL OR FLOOR COVER PLATES.
6. HOSE BIBBS: INSTALL HOSE BIBBS USING VACUUM BREAKER / BACKFLOW PREVENTION TYPE.
7. SHOWER AND LAVATORIES SHALL BE PROVIDED WITH HOT AND COLD WATER (110 DEGREE FAHRENHEIT MAXIMUM TEMPERATURE.
8. LAVATORIES TO BE EQUIPPED WITH SINGLE-SERVICE SOAP, TOWEL DISPENSERS AND HOT & COLD WATER.
9. FLOOR DRAINS TO BE EQUIPPED WITH PROVISION FOR TRAP PRIMER FITTING AT LAVATORY DRAIN WITH SUPPLY PIPE TO FLOOR DRAIN.
10. WATER HAMMER DEVICE SHALL BE INSTALLED AT EACH FIXTURE HAVING QUICK-ACTING VALVES AS CLOSE AS POSSIBLE TO THE FIXTURE.

MECHANICAL NOTES

1. PROVIDE AND INSTALL EXHAUST FANS. PROVIDE AND INSTALL GAS RADIANT HEATERS - SEE BID ITEM NOTE.

EF-1 EXHAUST FAN
PANASONIC FV-30VQ3, 290 CFM, 2.0 SONES, 120V, RECESSED, 6" DIA MTL DUCT THRU PARAPET WITH WALL CAP, AND THRU ROOF WITH ROOF CAP. CONNECT TO OCCUPANCY SENSOR SWITCH.

EF-2 PANASONIC FV-311VQ5, 110 CFM, .05 SONES, 120V, RECESSED, 4" DIA MTL DUCT THRU ROOF WITH ROOF CAP. CONNECT TO OCCUPANCY SENSOR SWITCH.

LEGEND

—SS—	UNDERSLAB SANITARY WASTE
—W—	ABOVE SLAB SANITARY WASTE
-V-	VENT
—CW—	COLD WATER
—HW—	HOT WATER
—G—	GAS (NATURAL)
(E)	EXISTING
(N)	NEW
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
CW	COLD WATER
HW	HOT WATER
FD	FLOOR DRAIN
TP	TRAP PRIMER
G	GAS
SA	SHOCK ABSORBER
AD	ACCESS DOOR
FS	FLOOR SINK
EF	EXHAUST FAN

RH RADIANT HEATER

RADIANT HEATER, CEILING PENDANT MOUNT, GAS 37,000 BTU, TO BE SELECTED BY OWNER. SEE BID ALTERNATE NOTE "A' SHEET A-3.

PLUMBING FIXTURE SCHEDULE

NO.	FIXTURE	BRANCH WASTE	BRANCH VENT	BRANCH CW	BRANCH HW	MANUF.	MODEL	MOUNT	COLOR	FAUCETS / TRIM	REMARKS
T1	TOILET ADA - RH	4"	2"	1/2"		KOHLER	K-3889-0 10" RI	FLOOR	WHITE	TRIP LEVER RIGHT	SEAT K-4731-GA 1.28 GPF
T2	TOILET-ADA-LH	4"	2"	1/2"		KOHLER	K-3889-RA-O 10" RI	FLOOR	WHITE	TRIP LEVER LEFT	SEAT K-4731-GA 1.28 GPF
T3	TOILET	4"	2"	1/2"		KOHLER	K-3575-O 12" RI	FLOOR	WHITE	TRIP LEVER LEFT	SEAT K-4731-GA 1.28 GPF
U1	URINAL-ADA 1 GPF	2"	1-1/2"	3/4"		KOHLER	K-5016-ET-O	WALL	WHITE	K-10673-CP	TOUCHLESS 1 GPF
L1	LAVATORY - ADA	1-1/2"	1-1/2"	1/2"	1/2"	KOHLER	K-2210-HW1	COUNTER	WHITE	K-7515-CP	TOUCHLESS
L2	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	KOHLER	K-2362-8	PEDESTAL		K-13491-4 BRUSHED NICKLE	K-8998 P-TRAP
SK	SINK - ADA	2"	1-1/2"	1/2"	1/2"	ELKAY	ELUH281610	UNDERMOUNT SS		LK7620CR	GAR711 STRAINER NO DISPOSAL
S1	SHOWER ADA	2"	2"	1/2"	1/2"	GROHE	27.242.000 ADA	WALL	24" ADJ BAR & 60" HEAD/HOSE	35.017.015 VALVE	MT507A/CPB DRAIN PRESSURE BALANCED
S2	SHOWER	2"	2"	1/2"	1/2"	GROHE	STANDARD	WALL	FIXED HEAD	35.017.015 VALVE	MT507A/CPB DRAIN PRESSURE BALANCED
DF	DRINKING FNT-ADA	1-1/4"	1-1/4"	3/8"		HAWS HI-LO	1011 HI-LO	WALL	6700.4 MT PLATE	COMPLETE COMPONENTS NO FILTER / COOLER	304 SS WALL PLATE REAR ACCESS REQD
FD	FLOOR DRAIN	2"	1-1/2"			MT. PLUMB.	MT507A/BRN	FLOOR		TRAP PRIMER WITH ACCESS DOOR	SUPPLY TUBING & TRAP NOT INCL
FS	FLOOR SINK	3"	2"			ZURN	FD2376-NH3	FLOOR			12" X 12" X 6"

IRRIGATION PIPING & CONTROLS: ADDITIONAL MODIFICAITONS OR EXTENSIONS OR (E) LANDSCAPE IRRIGATION PIPING AND CONTROLS SHALL BE BY OWNER'S SEPARATE CONTRACTOR

REVISIONS		BY
1	COUNTY HEALTH PLAN REVIEW	JDM 4/4/11
2	OWNER REVISIONS COVERED PATIO	JDM 5/24/11

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PLUMBING / MECHANICAL PLAN & NOTES

POOL HOUSE RESTROOM REMODEL & ADDITION
LOS RANCHITOS CABANA CLUB
1601 LA PRADERA DRIVE - CAMPBELL, CA 95008

DRAWN	JDM
DATE	02/06/2011
SCALE	AS NOTED
JOB NO.	2010.31
SHEET	P/M-1
OF	11 SHEETS

COUNTY ENIORNMENTAL HEALTH REVIEW 02/10/2011 (REVISION 04/04/2011)
CITY CAMPBELL PLAN REVIEW
OWNER REVISION 05/24/2011 - SUBMITTAL 7/21/11