

ARAPAHOE COMMUNITY COLLEGE

MAIN BUILDING

VENTILATION INCREASE AND TESTING, ADJUSTING, AND BALANCING.

M248

DRAWING LIST

- | | | | |
|-----|------------------------------|-----|----------------------------------|
| H-1 | HVAC SCHEDULES | H-6 | THIRD FLR. HVAC PLAN |
| H-2 | GARDEN FLR. HVAC PLAN — WEST | H-7 | FOURTH FLR. HVAC PLAN |
| H-3 | GARDEN FLR. HVAC PLAN — EAST | H-8 | MECHANICAL EQUIP. ROOM HVAC PLAN |
| H-4 | MAIN FLR. HVAC PLAN — WEST | E-1 | ELEC. LEGEND, SCHD., ONE—LINE |
| H-5 | MAIN FLR. HVAC PLAN — EAST | E-2 | ELEC. GROUND AND PENTHOUSE PLANS |

EXIST. VARIABLE AIR VOLUME UNIT SCHD.

EXIST. VARIABLE AIR VOLUME UNIT SCHD.

EXIST. VARIABLE AIR VOLUME UNIT SCHD.

FAN NO.	CEM	S.P.	H.P.	ELECT	MER	NO	CONTROL	REMARKS
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FAN NO.	CFM	S.P.	H.P.	ELECT	MFR.	NO.	CONTROL	REMARKS
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SYMBOL	MFR	MODEL	SERVICE	CFM @ 5.200"	REMARKS
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CONSULTING ENGINEERS
7430 EAST CALEY AVENUE,
SUITE 240
ENGLEWOOD, COLORADO 80111
(303) 779-1222
FAX: (303) 694-9144

VENTILATION INCREASE AND TESTING, ADJUSTING, AND BALANCING

NO.	DATE	ISSUE
1	1/19/02	011119 3010

DRAWN: CVM

DRAWN: GVM
DESIGNED: GVM
CHECKED: DCS
CLIENT JOB NO.: M-245
DATE: 04-01-93
FILE NAME: 93003

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

GORDON, GUMESON AND ASSOCIATES, INC.

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GGA # 93003 DATE

ARAPAHOE COMMUNITY COLLEGE

MAIN BUILDING

VENTILATION INCREASE AND
TESTING, ADJUSTING, AND
BALANCING

ISSUE RECORD

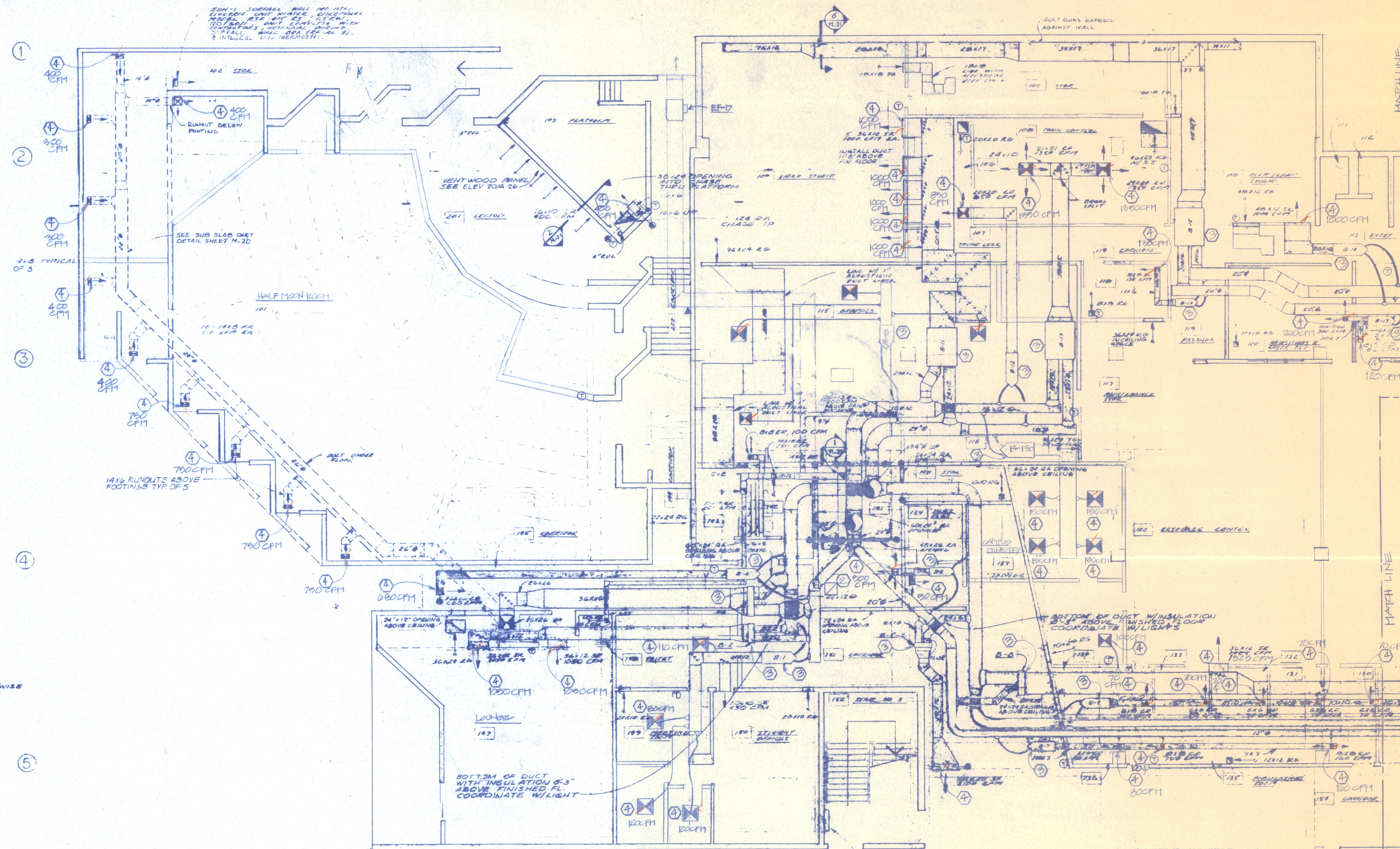
NO.	DATE	ISSUE
1	4/10/93	OWNER REVIEW
2	4/14/93	DATE REVIEW
3	3/25/94	RE-DIG

DRAWN: GYM
DESIGNED: GYM
CHECKED: DCS
CLIENT JOB NO.: H240
DATE: 04-01-93
FILE NAME: 93003

SHEET TITLE
GARDEN FLR. PLAN - WEST

SHEET NUMBER

W-2



GENERAL NOTES FOR NEW WORK

- THIS DRAWING HAS BEEN PREPARED BASED UPON INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, GORDON, GUMESON, AND ASSOCIATES, INC. HAS NOT THOROUGHLY VERIFIED THE ACCURACY OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THIS DRAWING AS A RESULT.
- REPAIR ALL DISTURBED EXISTING DUCTWORK AND INSULATION TO LIKE-NEW CONDITION.
- ALL MATERIALS AND EQUIPMENT SHOWN ARE EXISTING UNLESS NOTED OTHERWISE.
- EXISTING DRAWINGS BY OTHERS WERE USED TO SHOW EXISTING CONDITIONS, INCLUDING LOCATION, SIZE, AND TYPE OF EXISTING MATERIAL. VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO START OF CONSTRUCTION.
- HAZARDOUS MATERIALS MAY EXIST AT THIS PROJECT. COORDINATE ALL DISTURBANCES OF EXISTING EQUIPMENT AND MATERIALS WITH OWNER. DO NOT PROCEED WITH ANY WORK THAT DISTURBS EXISTING CONDITIONS WITHOUT PRIOR AUTHORIZATION FROM OWNER. IF HAZARDOUS MATERIAL IS ENCOUNTERED, STOP WORK AND NOTIFY OWNER. DO NOT PROCEED AGAIN WITHOUT AUTHORIZATION FROM OWNER.
- BALANCE VAV BOXES AND AIR DEVICES TO MAXIMUM AVAILABLE CFM BASED ON RESULTS OF SUPPLY AND RETURN FAN FINAL BALANCE. BALANCE IN PROPORTION TO SPECIFIED CFMS.

NEW WORK NOTES

- NOT USED
- ADD NEW REFRIGERATED LAYIN TYPE RETURN AIR VAV BOXES. BALANCE 1000 CFM TO EACH ROOM.
- BALANCE EXISTING VAV BOX TO NOTE 6.
- BALANCE EXISTING AIR DEVICES TO NOTE 6.

GARDEN FLOOR PLAN - WEST - MECHANICAL
SCALE: 1/8" = 1'-0"



PARTIAL GARDEN FLOOR PLAN MECH
SCALE: 1/8" = 1'-0"

PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTE: SUPPLY DUCTS SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS. RETURN AIR DUCTS WITH INSULATION SHALL BE 6" MIN ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE. VAV BOXES TO SUPPLY, RETURN, M.I.E. LOCATE IN ACCORDANCE WITH ELECTRICAL LIGHTING PLANS. VAV BOXES TO SUPPLY, RETURN, M.I.E. LOCATE IN ACCORDANCE WITH ELECTRICAL LIGHTING PLANS. VAV BOXES TO SUPPLY, RETURN, M.I.E. LOCATE IN ACCORDANCE WITH ELECTRICAL LIGHTING PLANS. VAV BOXES TO SUPPLY, RETURN, M.I.E. LOCATE IN ACCORDANCE WITH ELECTRICAL LIGHTING PLANS.

NOTE:
 1. ALL SUPPLY DUCTS SIZE SHOWN
 ARE INSIDE CLEAR DIMENSIONS
 BOTTOM OF DUCTS WITH INSULATION
 SHALL BE 8'-6" MIN ABOVE FINISHED FLOOR
 COORDINATE ALL OUTWORK & RAISED FLOOR OF
 ROOMS 226 & 229 WITH FLOOR FRAMING

**GORDON,
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 AND
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 INC.**

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**ARAPAHOE
 COMMUNITY
 COLLEGE**

**MAIN
 BUILDING**

VENTILATION INCREASE AND
 TESTING, ADJUSTING, AND
 BALANCING

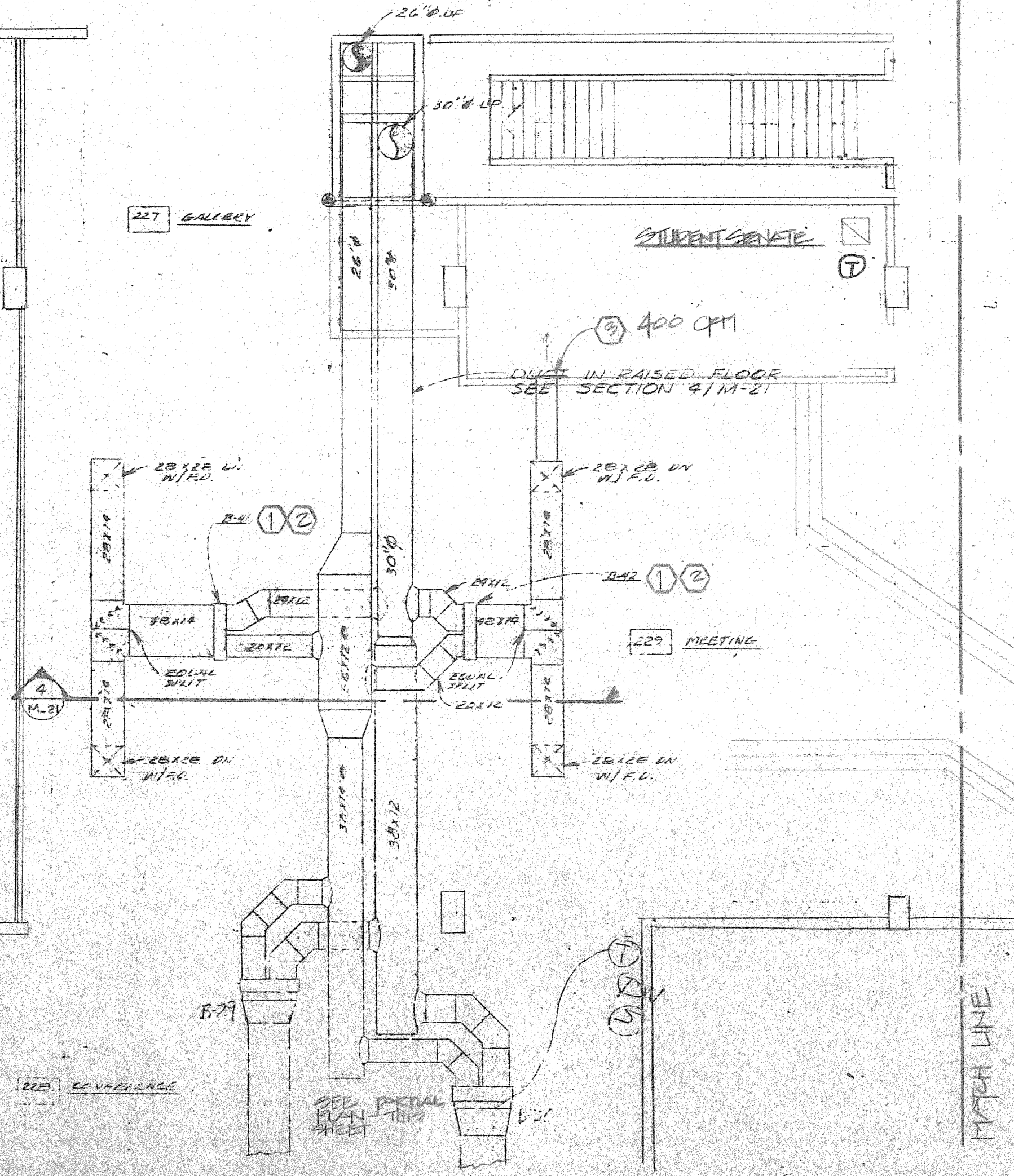
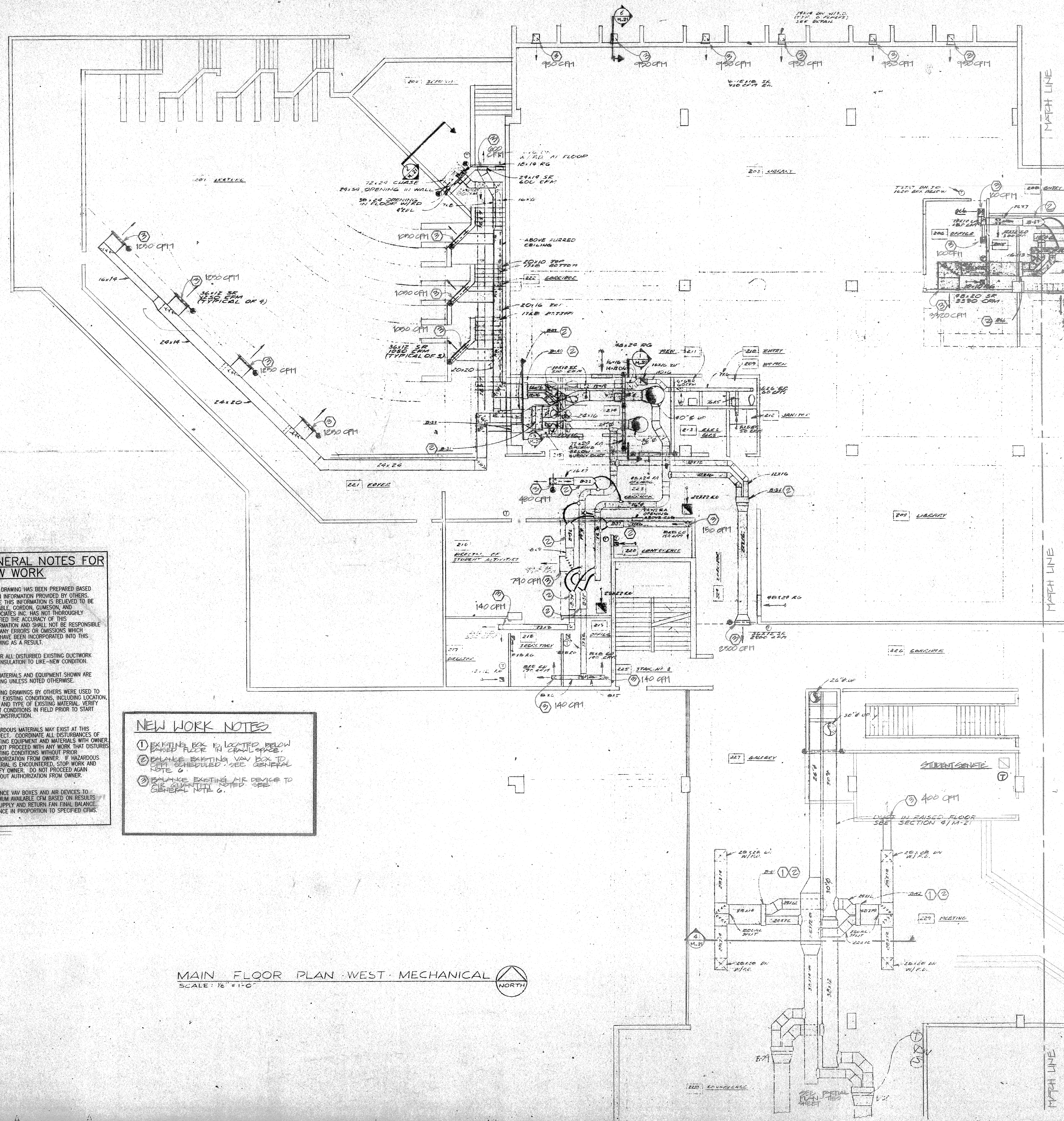
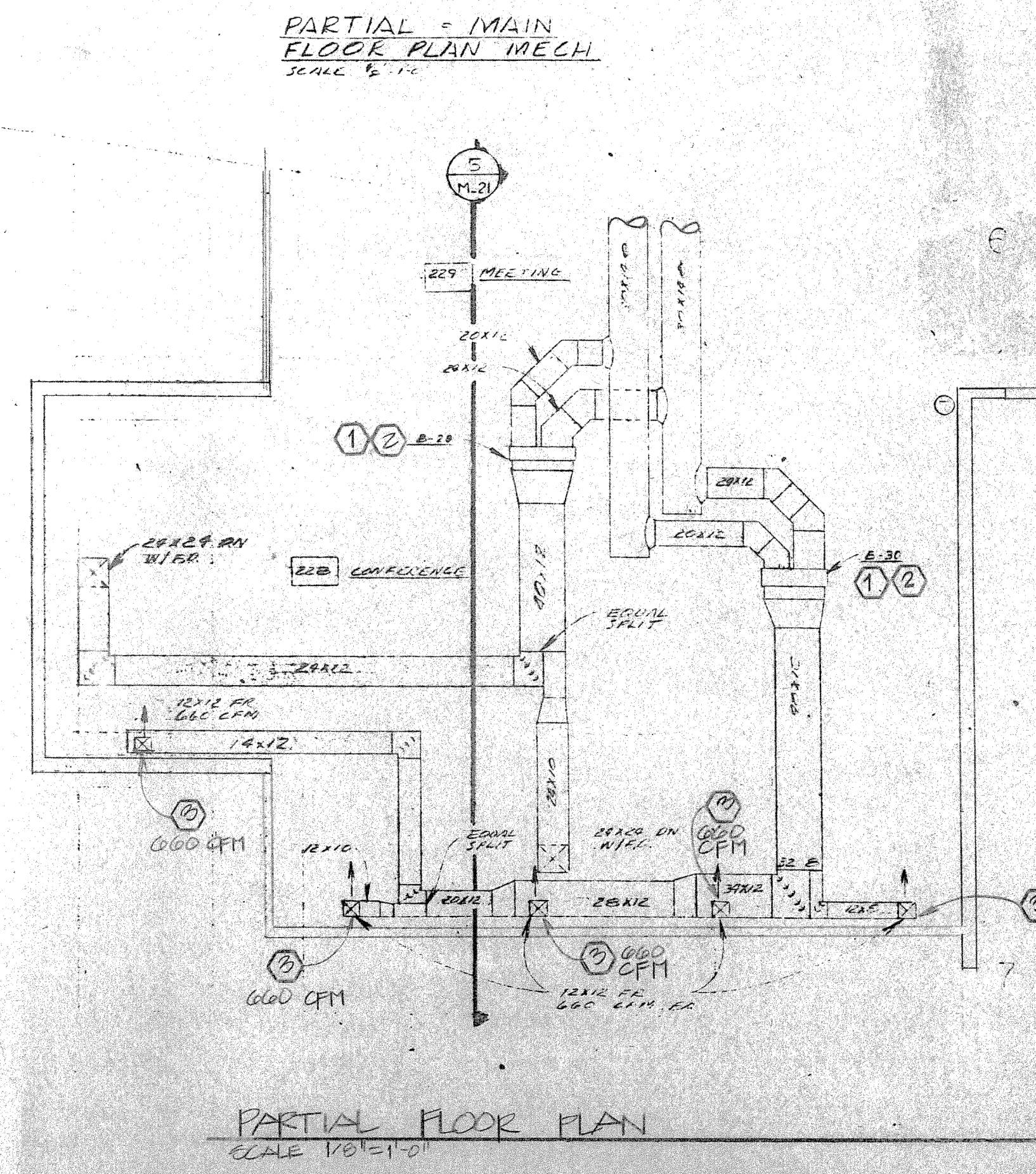
**GENERAL NOTES FOR
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2. REPAIR ALL DISTURBED EXISTING DUCTWORK AND INSULATION TO LIKE-NEW CONDITION.
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6. BALANCE VAV BOXES AND AIR DEVICES TO MAXIMUM AVAILABLE CFM BASED ON RESULTS OF SUPPLY AND RETURN FAN FLOW BALANCE. BALANCE IN PROPORTION TO SPECIFIED CFMS.

NEW WORK NOTES

1. EXISTING BOX IS LOCATED BELOW RAISED FLOOR IN CRAWLSPACE.
2. BALANCE EXISTING VAV BOX TO ROOM 6. REQUIRED VAV BOX GENERAL NOTE 6.
3. BALANCE EXISTING AIR DEVICE TO GENERAL NOTE 6.

MAIN FLOOR PLAN - WEST - MECHANICAL
 SCALE: 1/8" = 1'-0"



ISSUE RECORD

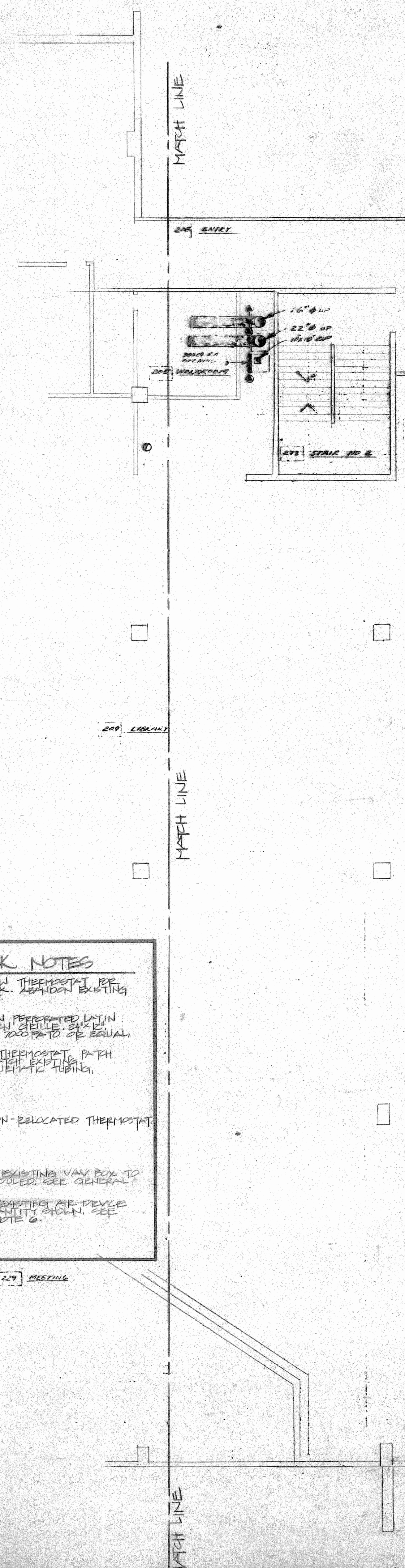
NO.	DATE	ISSUE
1	1/8/93	OWNER REVIEW
2	1/14/93	STATE REVIEW
3	3/23/94	REVIEW

DRAWN: GYM
 DESIGNED: GYM
 CHECKED: DCS
 CLIENT JOB NO.: ME48
 DATE: 04-01-93
 FILE NAME: 93003

SHEET TITLE
MAIN FLOOR PLAN - WEST

SHEET NUMBER
H-4

NOTE:
1. ALL SUPPLY DUCTS SIZE SHOWN
ARE PLUS 0.25 CLEAR DIMENSIONS
2. BOTTOM OF DUCTS WITH INSULATION
SHALL BE 8'-6" MIN. 28'4" FINISHED FLOOR

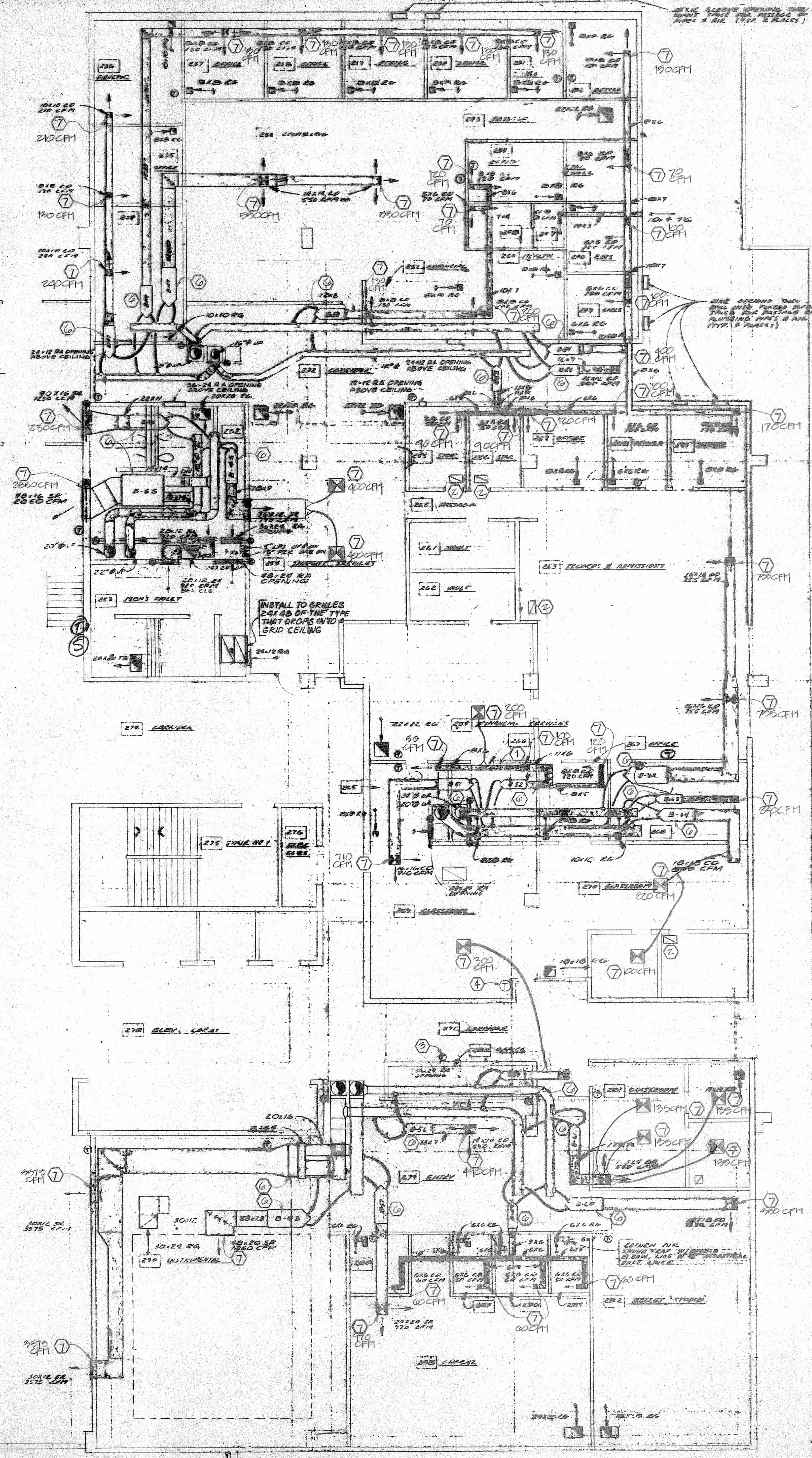


GENERAL NOTES FOR NEW WORK

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NEW WORK NOTES

1. PROVIDE NEW THERMOSTAT, SEE EXISTING FOR LOCATION EXISTING THERMOSTAT.
2. PROVIDE NEW PRESETTED LATIN METALLIC THERMOSTAT, SEE EXISTING FOR LOCATION.
3. RELOCATE THERMOSTAT PATH, EXISTING FROM FLOOR TO CEILING.
4. NEW LOCATION - RELOCATED THERMOSTAT.
5. NOT USED.
6. BALANCE EXISTING VAV BOX TO NOTE 6.
7. BALANCE EXISTING AIR DEVICE TO AIR QUANTITY SHOWN, SEE GENERAL NOTE 6.



MAIN FLOOR PLAN - EAST MECHANICAL
SCALE: 1/8" = 1'-0"

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GGA # 93003 DATE

ARAPAHOE COMMUNITY COLLEGE

MAIN BUILDING

VENTILATION INCREASE AND TESTING, ADJUSTING, AND BALANCING

NO.	DATE	ISSUE
1	4/10/93	CHANGE REVIEW
2	4/14/93	DATE REVIEW
3	8/23/94	REVIEW

DRAWN: GVM
DESIGNED: GVM
CHECKED: DCS
CLIENT JOB NO.: H-5
DATE: 04-01-93
FILE NAME: 93003

SHEET TITLE
MAIN FLOOR PLAN - EAS

SHEET NUMBER
H-5

NOTE:
1. ALL SUPPLY DUCTS SHALL BE 6" MIN. INSULATED UNLESS NOTED OTHERWISE.
2. BOTTOM OF DUCTS, WITH INSULATION SHALL BE 6" MIN. ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.

GENERAL NOTES FOR NEW WORK

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NEW WORK NOTES

- EXISTING EXHAUST FAN TO BE REPLACED WITH 1/2 HP, 115V, 1/2" DIA. EXHAUST FAN.
- EXISTING EXHAUST FAN TO BE REPLACED WITH 1/2 HP, 115V, 1/2" DIA. EXHAUST FAN.

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VENTILATION INCREASE AND TESTING, ADJUSTING, AND BALANCING

ISSUE RECORD

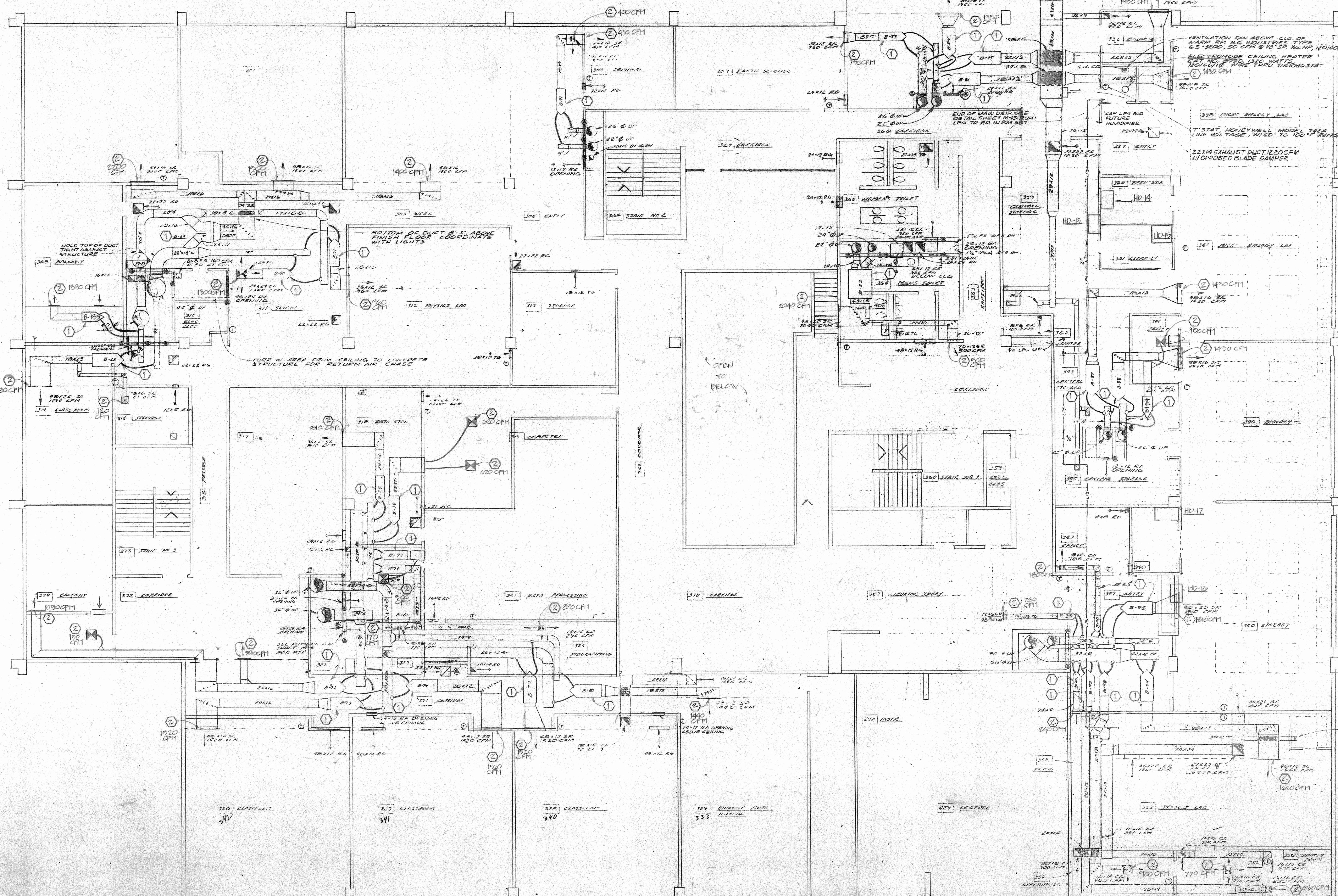
NO.	DATE	ISSUE
1	4/8/93	CHANGE REVIEW
2	8/25/94	CHANGE REVIEW

DRAWN: GVM
DESIGNED: GVM
CHECKED: DCS
CLIENT JOB NO.: H242
DATE: 04-01-93
FILE NAME: 93003

SHEET TITLE
THIRD FLOOR PLAN

SHEET NUMBER

H-6



THIRD FLOOR PLAN - MECHANICAL
SCALE: 1/8" = 1'-0"

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ISSUE RECORD		
NO.	DATE	ISSUE
1	4/8/93	OWNER REVIEW
2	4/16/93	STATE REVIEW
3	3/28/94	REPID

DRAWN: GVM
DESIGNED: GVM
CHECKED: DCS
CLIENT JOB NO.: M248
DATE: 04-01-93
FILE NAME: 93003

SHEET TITLE
FOURTH FLOOR PLAN

SHEET NUMBER

H-7

NEW YORK NOTE

- ① BALANCE EXISTING VIAL
BOX TO QM SCHEDULE
SEE GENERAL NOTE 6
- ② BALANCE EXISTING AIR
DEVICE TO AIR
QUANTITY CHAIN, SE
GENERAL NOTE 6.

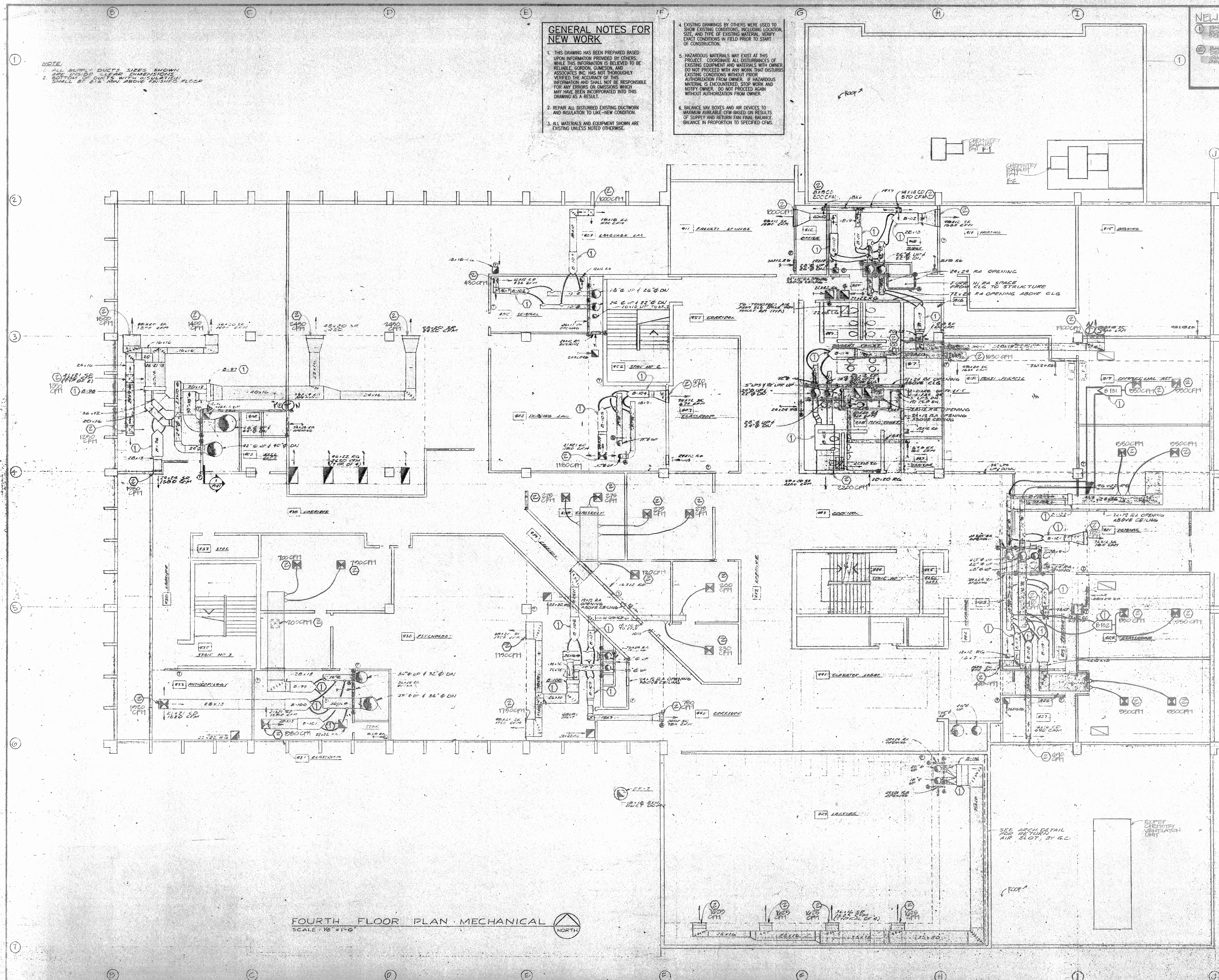
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2. REPAIR ALL DISTURBED EXISTING DUCTWORK AND INSULATION TO LIKE-NEW CONDITION.
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6. BALANCE VIB BOXES AND AIR DEVICES TO MAXIMUM AVAILABLE CFM BASED ON RESULTS OF TESTS AND FIELD PAID MEASUREMENTS. BALANCE IN PROPORTION TO SPECIFIED CFMS.

NOTE:

1. ALL SUPPLY DUCTS SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
2. BOTTOM OF DUCTS WITH INSULATION SHALL BE 2'-6" MIN ABOVE FINISHED FLOOR.



FOURTH FLOOR PLAN - MECHANICAL

GORDON, GUMESON AND ASSOCIATES, INC.

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- NEW WORK NOTES**
1. REMOVE EXISTING HODS & DUCTS IN MECH. ROOM & REPAIR EXISTING EXHAUST DUCTS.
 2. REMOVE EXISTING EXHAUST DUCTS IN MECH. ROOM & REPAIR EXISTING EXHAUST DUCTS.
 3. REMOVE EXISTING EXHAUST DUCTS IN MECH. ROOM & REPAIR EXISTING EXHAUST DUCTS.
 4. REMOVE EXISTING EXHAUST DUCTS IN MECH. ROOM & REPAIR EXISTING EXHAUST DUCTS.
 5. NOT USED
 6. REMOVE EXISTING EXHAUST DUCTS IN MECH. ROOM & REPAIR EXISTING EXHAUST DUCTS.

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 3. ALL MATERIALS AND EQUIPMENT SHOWN ARE EXISTING UNLESS NOTED OTHERWISE.
 4. EXISTING DRAWINGS BY OTHERS WERE USED TO SHOW EXISTING CONDITIONS, INCLUDING LOCATION, SIZE, AND TYPE OF EXISTING MATERIAL. VERIFY EXISTING CONDITIONS IN FIELD PRIOR TO START OF CONSTRUCTION.
 5. HAZARDOUS MATERIALS MAY EXIST AT THIS PROJECT. COORDINATE ALL DISTURBANCES OF EXISTING EQUIPMENT AND MATERIALS WITH OWNER. DO NOT PROCEED WITH ANY WORK THAT DISTURBS EXISTING CONDITIONS WITHOUT PRIOR AUTHORIZATION FROM OWNER. IF HAZARDOUS MATERIAL IS ENCOUNTERED, STOP WORK AND NOTIFY OWNER. DO NOT PROCEED AGAIN WITHOUT AUTHORIZATION FROM OWNER.
 6. BALANCE VAV BOXES AND AIR DEVICES TO MAXIMUM AVAILABLE CFM BASED ON RESULTS OF SUPPLY AND RETURN FAN FINAL BALANCE. BALANCE IN PROPORTION TO SPECIFIED CFMS.

ARAPAHOE COMMUNITY COLLEGE

MAIN BUILDING

VENTILATION INCREASE AND TESTING, ADJUSTING, AND BALANCING

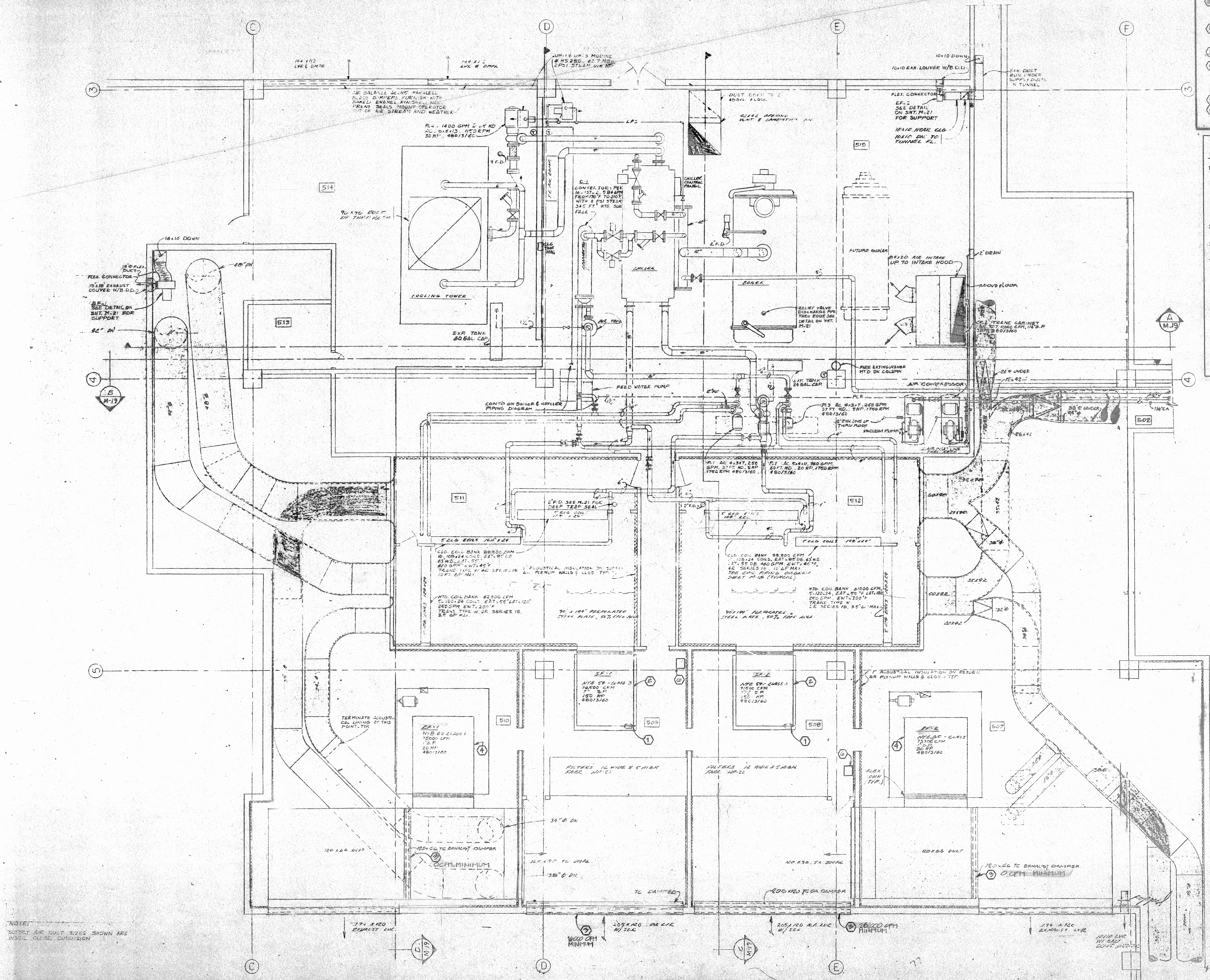
ISSUE RECORD

NO.	DATE	ISSUE
1	4/8/93	OWNER REVIEW
2	4/16/93	STATE REVIEW
3	3/20/94	REVIEW

DRAWN: GVM
DESIGNED: GVM
CHECKED: DCS
CLIENT JOB NO.: H-240
DATE: 04-01-93
FILE NAME: 93003

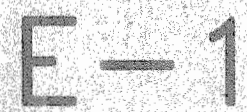
SHEET TITLE
MECHANICAL EQUIPMENT ROOM (PENTHOUSE)
SHEET NUMBER

H-8



NOTES:
SIZES ARE DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSION

MECHANICAL EQUIPMENT ROOM PLAN
SCALE: 1/4\"/>



GORDON, GUMESON AND ASSOCIATES, INC.

CONSULTING ENGINEERS
7430 EAST CALEY AVENUE,
SUITE 240
ENGLEWOOD, COLORADO 80111
(303) 779-1222
FAX: (303) 694-9144

GGA # 93003 DATE

ARAPAHOE COMMUNITY COLLEGE

MAIN BUILDING

VENTILATION INCREASE AND
TESTING, ADJUSTING, AND
BALANCING

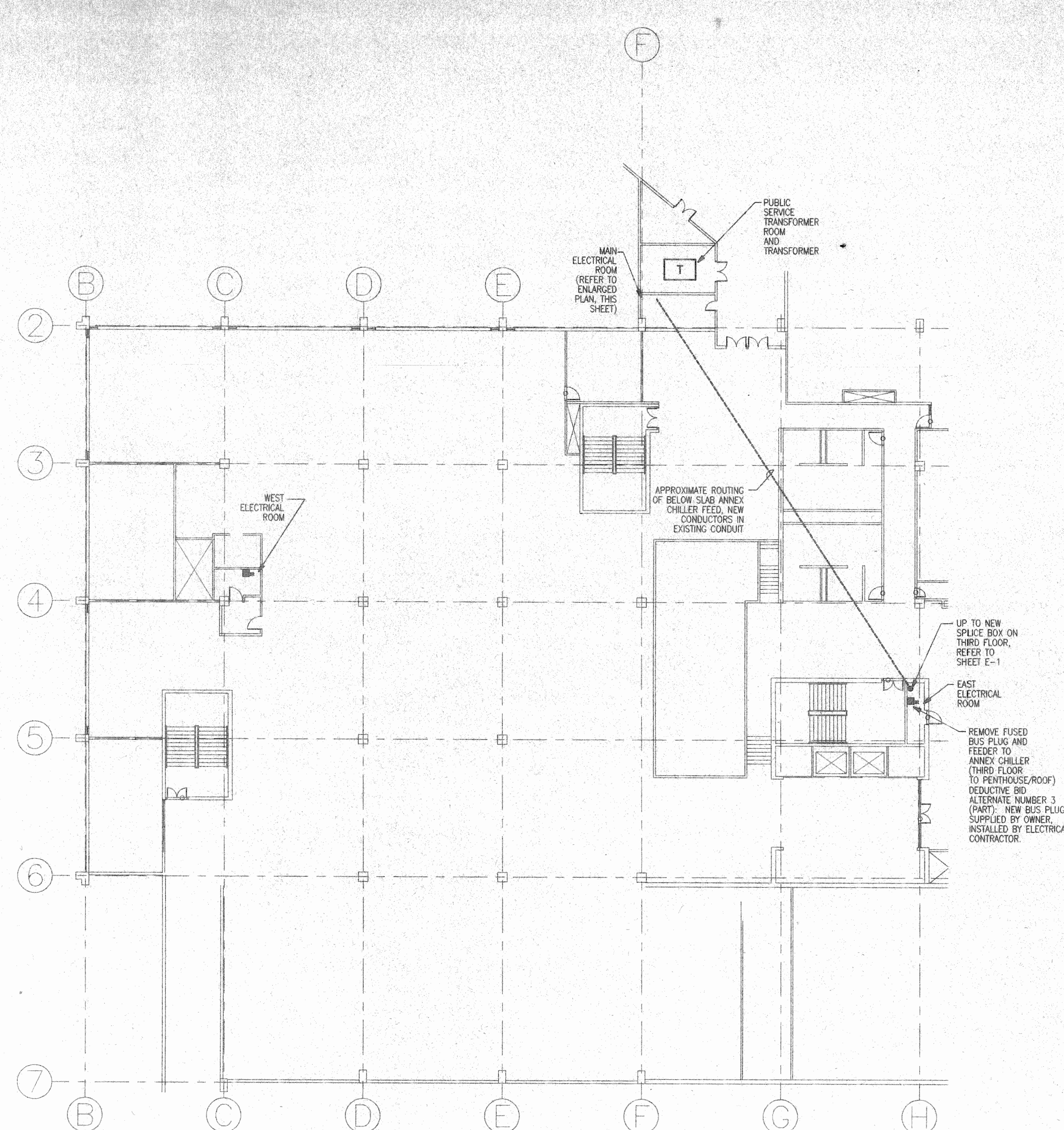
ISSUE RECORD

NO.	DATE	ISSUE
1	4/8/93	OWNER REVIEW
2	4/8/93	STATE REVIEW
3	8/9/93	REBID
4	3/25/94	SECOND REBID

DRAWN: TOB
DESIGNED: TOB
CHECKED: LAS
CLIENT JOB NO.: M248
DATE: 3/25/94
FILE NAME: 93003 - FLREPNL.VWF

SHEET TITLE
ELECTRICAL
PLANS-
GROUND AND
PENTHOUSE/ROOF
SHEET NUMBER

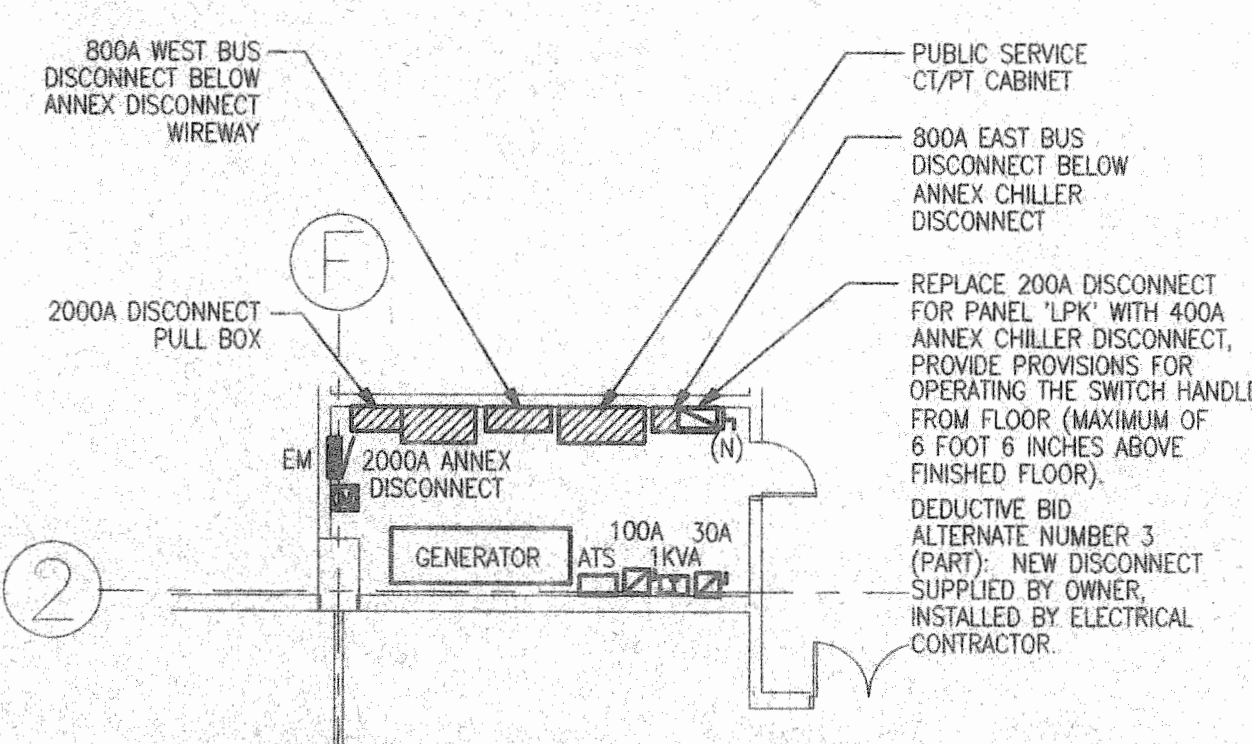
E-2



PARTIAL GROUND FLOOR
SCALE: 1/16" = 1'-0"

GENERAL NOTES

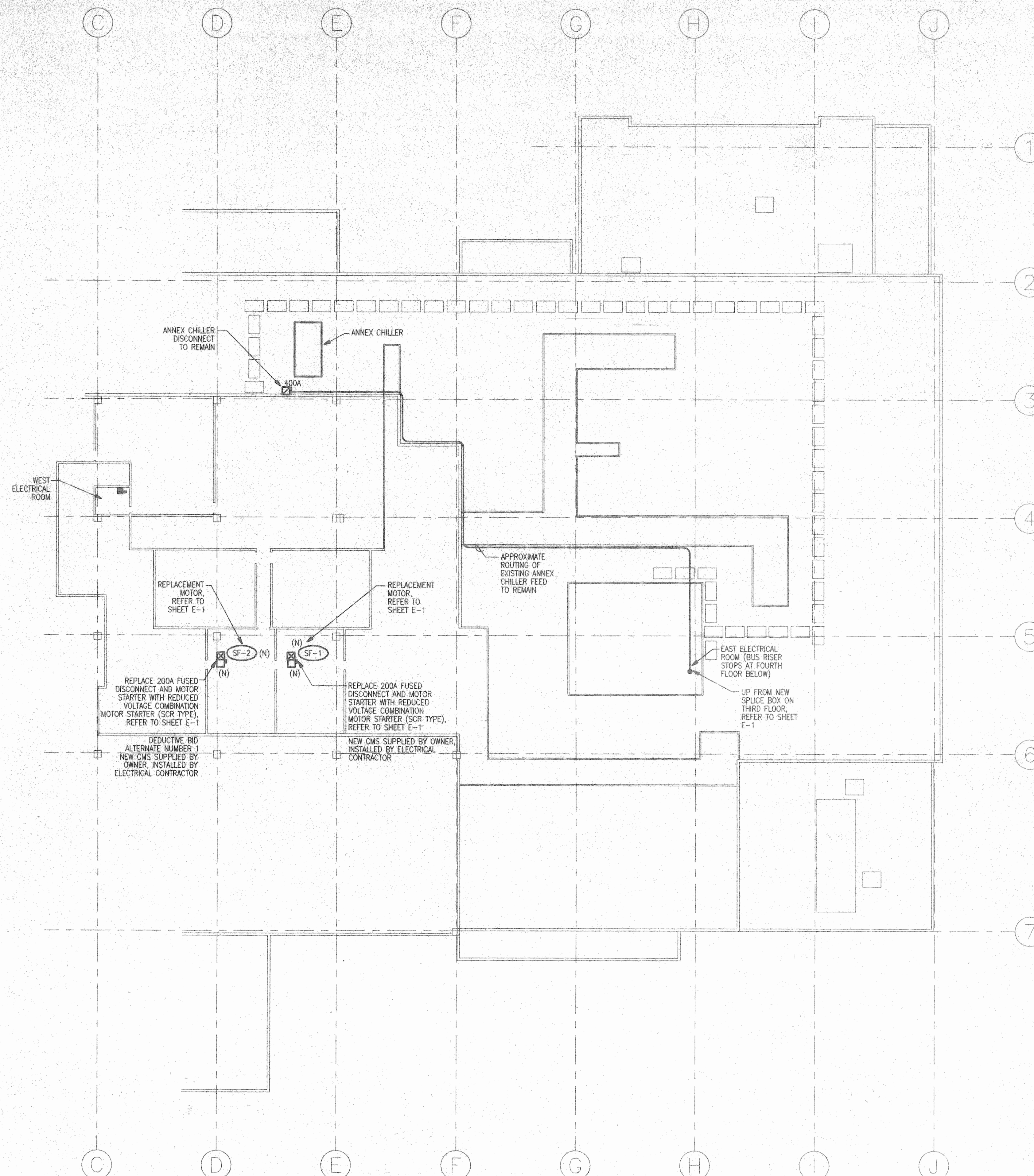
1. ALL ITEMS ARE EXISTING UNLESS NOTED OTHERWISE.



ENLARGED MAIN ELECTRICAL ROOM
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. ALL ITEMS ARE EXISTING UNLESS NOTED OTHERWISE.



PARTIAL PENTHOUSE/ROOF PLAN
SCALE: 1/16" = 1'-0"

GENERAL NOTES

1. ALL ITEMS ARE EXISTING UNLESS NOTED OTHERWISE.