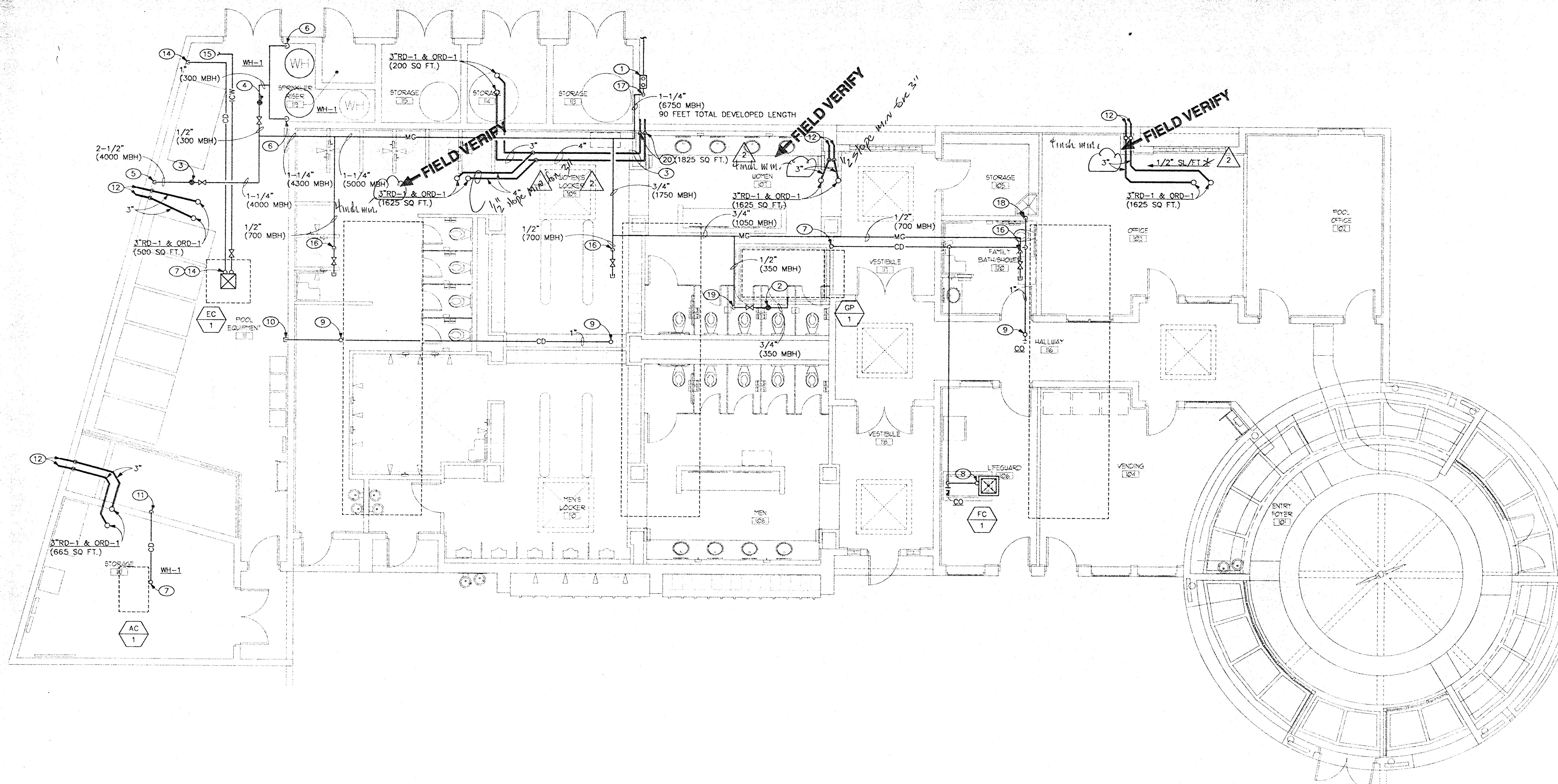


DATE: JUL 07 09:53:34 2000 PLOT: dno\_karck 8830 (HP-CL/2) - Version 1.5



**GENERAL NOTES**

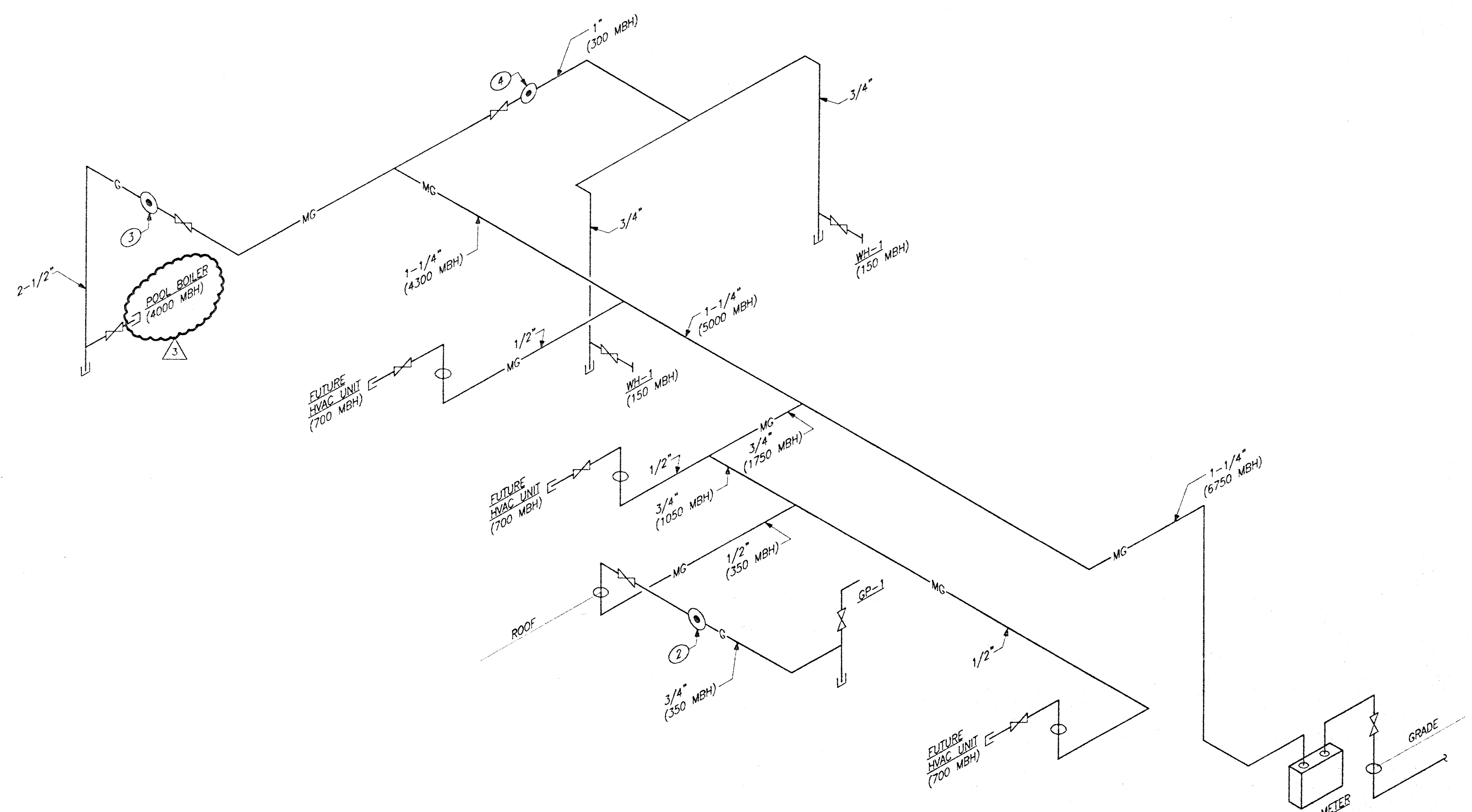
1. ALL DRAINAGE PIPING 4" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT.
2. ALL DRAINAGE PIPING LARGER THAN 4" SHALL BE SLOPED AT 1/8" PER FOOT.
3. ALL CONDENSATE DRAIN PIPING SHALL BE SLOPED 1/8" PER FOOT.
4. ALL STORM DRAINAGE PIPING SHALL BE SLOPED AT 1/8" PER FOOT UNLESS NOTED OTHERWISE.

**SHEET NOTES**

1. GAS SERVICE METER AND REGULATOR SHALL BE PROVIDED BY SOUTHWEST GAS CORPORATION. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND FEES REQUIRED FOR THE INSTALLATION OF THE SERVICE AND METER. GAS METER SHALL BE CAPABLE OF 6750 MBH.
2. PROVIDE GAS REGULATOR, SP5 INLET, 3" WC OUTLET (350 MBH). ROUTE GAS VENT UP THRU ROOF. SEAL ROOF PENETRATION WEATHERTIGHT. PROVIDE GOOSENECK VENT. TOTAL DEVELOPED LENGTH 65 FEET.
3. PROVIDE GAS REGULATOR, SP5 INLET, 3" WC OUTLET (4000 MBH). ROUTE GAS VENT UP THRU ROOF. SEAL ROOF PENETRATION WEATHERTIGHT. PROVIDE GOOSENECK VENT. TOTAL DEVELOPED LENGTH 20 FEET.
4. PROVIDE GAS REGULATOR, SP5 INLET, 3" WC OUTLET (300 MBH). ROUTE GAS VENT UP THRU ROOF. SEAL ROOF PENETRATION WEATHERTIGHT. PROVIDE GOOSENECK VENT. TOTAL DEVELOPED LENGTH 20 FEET.
5. ROUTE 2-1/2" GAS PIPE DOWN TO POOL BOILER (4,000,000 BTUH). PROVIDE SHUT-OFF VALVE AND DIRT LEG. PROVIDE FULL SIZE CONNECTION TO POOL HEATER.
6. ROUTE 3/4" GAS PIPE DOWN TO WATER HEATER (150,000 BTUH EACH). PROVIDE SHUT-OFF VALVE AND DIRT LEG. PROVIDE FULL SIZE CONNECTION TO WATER HEATER.
7. 3/4" CONDENSATE DRAIN WITH P-TRAP AND AIR VENT ABOVE ROOF. ROUTE CONDENSATE DRAIN DOWN THRU ROOF. PROVIDE SHEETMETAL RAINSKIRT AND SEAL PENETRATION WEATHERTIGHT. PROVIDE CAPPED TEE'S AT ALL CHANGES IN DIRECTION FOR CLEAN OUT.
8. 3/4" CONDENSATE DRAIN WITH P-TRAP AND AIR VENT ABOVE CEILING. PROVIDE CAPPED TEE'S AT ALL CHANGES IN DIRECTION FOR CLEAN OUT.
9. ROUTE 1" CONDENSATE DRAIN PIPE UP THRU ROOF. CAP PIPING 6" ABOVE ROOF FOR FUTURE HVAC EQUIPMENT. PROVIDE SHEETMETAL RAINSKIRT AND SEAL PENETRATION WEATHERTIGHT.
10. CAP 1-1/4" CONDENSATE DRAIN LINE BELOW ROOF FOR FUTURE HVAC EQUIPMENT.
11. ROUTE 3/4" CONDENSATE DRAIN DOWN ALONG WALL AND SPILL TO SUMP PIT DRAIN.
12. ROUTE 3" STORM DRAIN AND OVERFLOW STORM DRAIN PIPE DOWN IN WALL. TERMINATE THRU WALL 12" MAXIMUM ABOVE GRADE TO SPLASH BLOCK. GENERAL CONTRACTOR TO PROVIDE SPLASH BLOCK.
13. 1/2" INDUSTRIAL COLD WATER (ICW) RISE UP THRU ROOF. PROVIDE SHEETMETAL RAINSKIRT AND SEAL PENETRATION WEATHERTIGHT.
14. ROUTE 3/4" CONDENSATE DRAIN PIPE DOWN ALONG WALL AND TERMINATE TO FLOORSINK.
15. 1/2" INDUSTRIAL COLD WATER (ICW) PIPE BELOW ROOF. REFER TO SHEET P2.02 FOR CONTINUATION.
16. ROUTE 1/2" MEDIUM PRESSURE GAS PIPE UP THRU ROOF FOR FUTURE HVAC EQUIPMENT (700,000 BTUH). PROVIDE STUB-UP AND CAP ABOVE ROOF. PROVIDE SHEETMETAL RAINSKIRT AND SEAL PENETRATION WEATHERTIGHT.
17. ROUTE 1-1/4" MEDIUM PRESSURE GAS PIPE THRU WALL AND BELOW ROOF.
18. ROUTE 1-1/4" CONDENSATE DRAIN PIPE DOWN IN WALL. TERMINATE 6" ABOVE SERVICE SINK WITH ELBOW TURNED DOWN.
19. ROUTE 1/2" MEDIUM PRESSURE GAS PIPE UP THRU ROOF. PROVIDE SHEETMETAL RAINSKIRT & SEAL PENETRATION WEATHERTIGHT.
20. ROUTE 4" STORM DRAIN AND OVERFLOW STORM DRAIN PIPE DOWN IN WALL. TERMINATE THRU WALL 12" MAXIMUM ABOVE GRADE TO SPLASH BLOCK. GENERAL CONTRACTOR TO PROVIDE SPLASH BLOCK.

**GAS AND CONDENSATE DRAIN PIPING PLAN**

SCALE: 3/16" = 1' - 0"



**TABLE 11-2**  
Sizing of Horizontal Rainwater Piping

Size of Pipe, Inches	Flow at 1/4" Slope, gpm	Maximum Allowable Horizontal Projected Roof Areas Square Feet at Various Rainfall Rates					
		17/8"	2 1/8"	3 1/8"	4 1/8"	5 1/8"	6 1/8"
3	34	3288	1644	1096	822	657	548
4	78	7520	3760	2508	1880	1504	1253
5	139	13,360	6680	4453	3340	2672	2227
6	232	21,480	10,740	7133	5350	4280	3566
8	478	46,880	23,440	15,300	11,500	9200	7670
10	860	82,800	41,400	27,600	20,700	16,560	13,800
12	1384	133,200	66,600	44,400	33,300	26,650	22,200
15	2473	238,000	119,000	79,333	59,500	47,600	39,650

Size of Pipe, Inches	Flow at 1/4" Slope, gpm	Maximum Allowable Horizontal Projected Roof Areas Square Feet at Various Rainfall Rates					
		17/8"	2 1/8"	3 1/8"	4 1/8"	5 1/8"	6 1/8"
3	48	4640	2320	1546	1160	928	773
4	110	10,600	5300	3533	2650	2120	1766
5	196	18,880	9440	6293	4720	3776	3146
6	314	30,200	15,100	10,066	7550	6040	5013
8	627	60,200	30,100	20,133	15,100	12,080	10,066
10	1214	116,800	58,400	38,933	29,200	23,350	19,450
12	1953	188,000	94,000	62,667	47,000	37,600	31,350
15	3401	336,000	168,000	112,000	84,000	67,200	56,000

Notes:  
1. The sizing data for horizontal piping is based on the piping flowing full.  
2. For rainfall rates other than those listed, determine the allowable roof area by dividing the area given in this table by the ratio of the rainfall rate to the listed rainfall rate.

PLANS APPROVED  
ARCHITECTURAL  
Building & Safety Dept.  
City of Las Vegas, Nevada  
JCC JUL 31 2000  
Does Not Include Structural, Electrical, Plumbing/Mechanical or Oil-Gas Improvements. Make No Change Without Approval Plan is Not a Permit to Violate Any Ordinance.

PLANS APPROVED  
PLUMBING/MECHANICAL  
Building & Safety Dept.  
City of Las Vegas, Nevada  
BY AUG 01 2000  
Does Not Include Architectural, Electrical Structural or Oil-Gas Improvements. Make No Change Without Approval Plan is Not a Permit to Violate Any Ordinance.

DATE: 07-27-99  
Project No. 990333-02  
Scale: 3/16" = 1'-0"  
Drawn By: KKK

REVISIONS:  
1. 5/17/00 BUILDING COMMENTS  
2. 11/17/00 PLAN CHECK COMMENTS

500 PILOT ROAD • SUITE A • LAS VEGAS, NEVADA 89119 • PHONE (702) 263-7111 • FAX (702) 263-8111

SUMMERLIN ARBORS PARK  
POOL AND POOL BUILDING

GAS, CONDENSATE AND ROOF DRAINAGE PIPING PLAN  
AND GAS PIPING RISER DIAGRAM

LUCCHESI GALATI

**GAS PIPING DIAGRAM**

NO SCALE