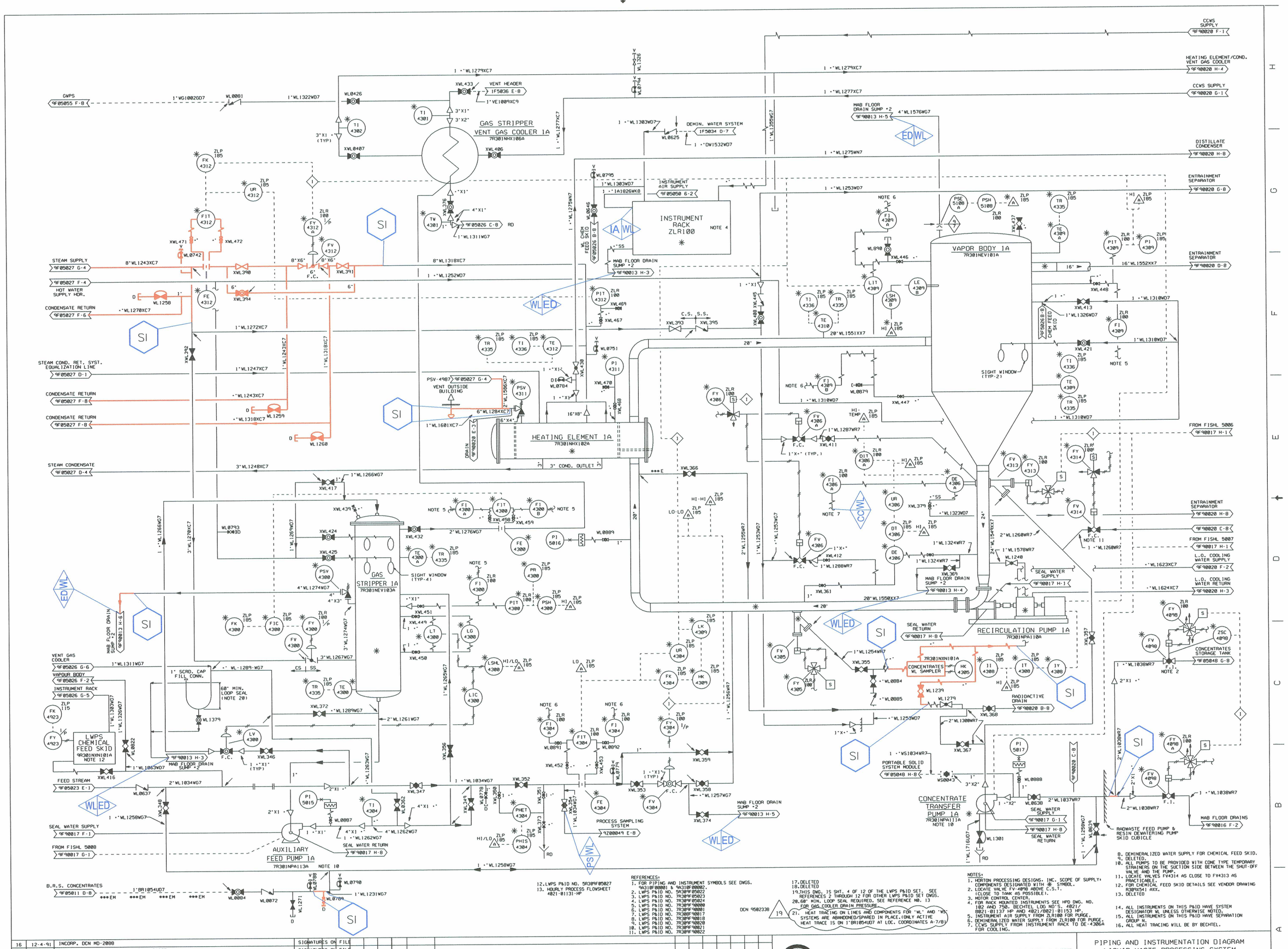

REFERENCES:
1. FOR PIPING AND INSTRUMENT SYMBOLS SEE DWGS. 9A310F00001 & 9A310F00002.
2. LWPS P&ID NO. 9R309F05022
3. LWPS P&ID NO. 7R309F05023
4. LWPS P&ID NO. 7R309F05024
5. LWPS P&ID NO. 7R309F90000
6. LWPS P&ID NO. 7R309F90001
7. LWPS P&ID NO. 7R309F90017
8. LWPS P&ID NO. 7R309F90018
9. LWPS P&ID NO. 7R309F90020
10. LWPS P&ID NO. 7R309F90021
11. LWPS P&ID NO. 7R309F90022
12. LWPS P&ID NO. 9R309F05027
13. HOURLY PROCESS FLOWSHEET 4021-01131-HP

17. DELETED
18. DELETED
19. THIS DWG. IS SHT. 4 OF 12 OF THE LWPS P&ID SET. SEE REFERENCES 2 THROUGH 12 FOR OTHER LWPS P&ID SET DWGS.
20. 60" MIN. LOOP SEAL REQUIRED. SEE REFERENCE NO. 13 FOR GAS COOLER DRAIN PRESSURE.

DCN 9502338 19
21. HEAT TRACING ON LINES AND COMPONENTS FOR "WL" AND "WS" SYSTEMS ARE ABANDONED/SPARED IN PLACE.(ONLY ACTIVE HEAT TRACE IS ON 1"BR1054UD7 AT LOC. COORDINATES A-7/8)

NOTES:
1. HORTON PROCESSING DESIGN, INC. SCOPE OF SUPPLY, COMPONENTS DESIGNATED WITH ✻ SYMBOL.
2. LOCATE VALVE FV-4098 ABOVE C.S.T. (CLOSE TO TANK AS POSSIBLE).
3. MOTOR CONTROL CENTER.
4. FOR RACK MOUNTED INSTRUMENTS SEE HPD DWG. NO. 102 AND 750. BECHTEL LOG NO'S. 4021/0021-01137 HP AND 4021/0021-01153 HP.
5. INSTRUMENT AIR SUPPLY FROM ZLR100 FOR PURGE.
6. DEMINERALIZED WATER SUPPLY FROM ZLR100 FOR PURGE.
7. CCWS SUPPLY FROM INSTRUMENT RACK TO DE-4306A FOR COOLING.
8. DEMINERALIZED WATER SUPPLY FOR CHEMICAL FEED SKID.
9. DELETED.
10. ALL PUMPS TO BE PROVIDED WITH CONE TYPE TEMPORARY STRAINERS ON THE SUCTION SIDE BETWEEN THE SHUT-OFF VALVE AND THE PUMP.
11. LOCATE VALVES FV4314 AS CLOSE TO FV4313 AS PRACTICABLE.
12. FOR CHEMICAL FEED SKID DETAILS SEE VENDOR DRAWING R309XX41 AXX.
13. DELETED
14. ALL INSTRUMENTS ON THIS P&ID HAVE SYSTEM DESIGNATOR WL UNLESS OTHERWISE NOTED.
15. ALL INSTRUMENTS ON THIS P&ID HAVE SEPARATION GROUP N.
16. ALL HEAT TRACING WILL BE BY BECHTEL.

NO.	ISSUE DATE	REVISION	BY	CKR	RE	DV	NA	SE	PE
16	12-4-91	INCORP. DCN MD-2008	SIGNATURES ON FILE						
15	5-3-91	INCORP. ECN'S 89-M-0125A & 89-M-0125F	SIGNATURES ON FILE						
14	8-31-90	INCORP. DCN MD-1136	SIGNATURES ON FILE						
13	7-10-90	INCORP. HDCN 2 (CCP 1-J-FST-05871 AND DCN MD-94	SIGNATURES ON FILE						
12	11-7-88	HL&P ASSUMES DESIGN CHANGE CONTROL & INCORP. HFCR BM01685	SIGNATURES ON FILE						
0-11	9-28-82	ISSUED FOR CONSTRUCTION	SIGNATURES ON FILE						

NO.	ISSUE DATE	REVISION	BY	CKR	RE	DV	NA	SE	PE
19		INCORP. DCN 9502338	KS						
18	3-4-93	INCORP. DCN MD-2665	SIGNATURES ON FILE						
17	1-14-92	INCORP. DCN MD-2231	SIGNATURES ON FILE						

HOUSTON LIGHTING & POWER COMPANY
SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION

PIPING AND INSTRUMENTATION DIAGRAM
LIQUID WASTE PROCESSING SYSTEM
WASTE EVAPORATOR PACKAGE

SCALE	DWG. NO.	REV.
NONE	7R309F05026 #1	19

PRIORITY 1 DC NO. D07092B 2 FJA162.191

LR BOUNDARY DRAWING NO.	REV.
LR-STP-WL-7R309F05026#1	0A

2300