

81-W-501	
COOLING TOWER PACKAGE	
VOLUME WATER FLOW RATE	5000 m3 (Each cells)

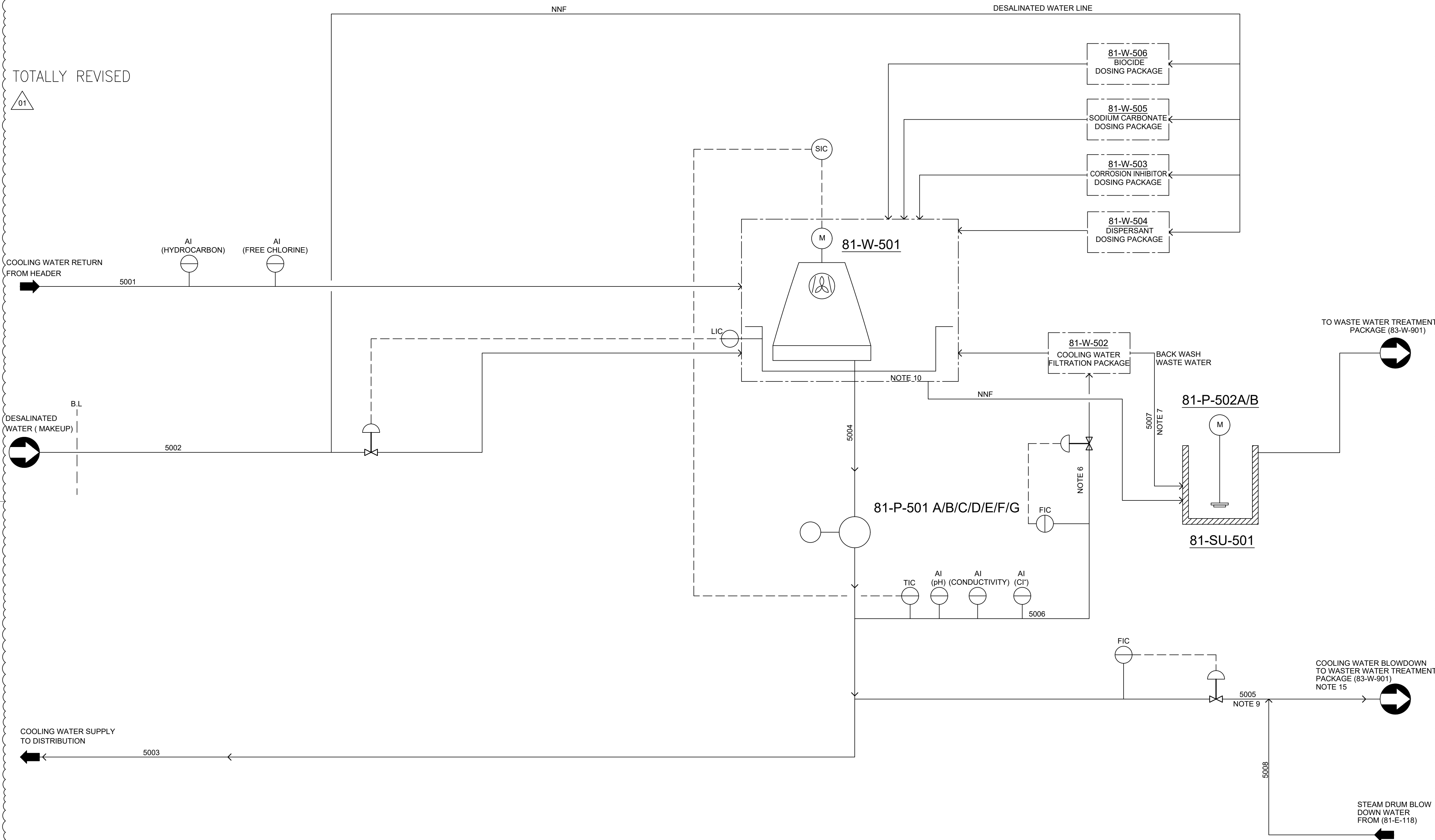
81-P-501 A/B/C/D/E/F/G	
COOLING WATER PUMPS	
CAPACITY (Nor/Rated)	5300/6360 m3/hr
MAX DIFFERENTIAL PRESSURE	5.44 Bar
NUMBER OF PUMPS	5+2

<u>81-W-502</u>
COOLING TOWER FILTRATION PACKAGE
<u>81-W-503</u>
CORROSION INHIBITOR DOSING PACKAGE

<u>81-W-506</u>
BIOCIDE DOSING PACKAGE
<u>81-W-504</u>
DISPERSANT DOSING PACKAGE

<u>81-W-505</u>
SODIUM CARBONATE DOSING PACKAGE
<u>81-SU-501</u>
BACK WASH WASTE WATER SUMP

<b>81-P-502 A/B</b>	
<b>BACK WASH WASTE WATER SUMP PUMP</b>	
<b>CAPACITY (Rated):</b>	<b>5 m3/hr</b>
<b>MAX DIFFERENTIAL PRESSURE:</b>	<b>2.1 Bar (NOTE 16)</b>






STREAM NO.	5001	5002	5003	5004	5005	5006	5007 (NOTE 7)	5008
TEMPERATURE, °C	47	25	37	37	37	37	37	60
PRESSURE, Barg	3.5	5.5	5.5	0.31	5.5	5.5	2	4.5
TOTAL MASS FLOW, kg/h	2.5E+07	532430	2.5E+07	2.6E+07	74882	1248029	520	2900
DENSITY, kg/m3	990.7	1007.5	998.4	998.3	998.4	998.4	998.3	983
VISCOSITY, Cp	0.57	0.89	0.69	0.69	0.69	0.69	0.69	0.46

REFERENCE DRAWINGS	DWG. NUMBER

**Note :**

1. DELETED.
2. DELETED.
3. DELETED.
4. DELETED.
5. 7 ELECTRICAL PUMPS ARE CONSIDERED FOR COOLING WATER PUMPS, (5 DUTY PUMPS + 2 SPARE PUMPS).
6. REQUIRED CONTROL FLOW VALVE SHALL BE CONSIDERED BY FILTRATION PACKAGE VENDOR.
7. STREAM PRESSURE AND BACK WASH FLOW RATE ARE PRELIMINARY AND WILL BE FINALIZED BY VENDOR DURING DETAILED DESIGN.
8. DELETED.
9. DELETED.
10. 6 (5+1) COOLING WATER CELLS CONSIDERED.
11. DELETED.
12. DELETED.
13. DELETED.
14. DELETED.
15. THE LOCATION OF PACKAGE 83-W-901 WILL BE CHECKED AND FINALIZED DURING DETAILED DESIGN ENGINEERING PHASE AS PER CONTRACT.
16. WILL BE FINALIZED LATER

Legend :

01	ISSUED FOR APPROVAL	20-Sep-2025	A.HOSEINGOD	M.JAMSHIDI	M.H.ESHRAGH	
00	ISSUED FOR COMMENT	18-Dec-2024	M.FALAH	M.JAMSHIDI	E.SHAFAGHAT	
REV.	PURPOSE OF ISSUE	ISSUE DATE	PREPARE	CHECKED	APPROVED	
OWNER:		MC:		CONTRACTOR/CONSULTANT:		
						

PROJECT TITLE:

PROPANE DEHYDROGENATION (PDH) PROJECT

DOCUMENT TITLE:

PFD for Cooling Tower System

DOC NO.:	PROJ.CODE	Sec.	PHASE	DEP.	DOC. TYPE	SERIAL NO.

SCALE: 1:100	SIZE: A3	SHEET NO.: 1 OF 1	REVISION: 01	CLASS: 1
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