

VESSEL NO. C-4201 COMB WITH _____
 NAME MOP DRYING COLUMN

SHEET 1 OF 3

DIAMETER 3'-0" & _____ FT-IN MM
 VERT HT 26'-2" SKIRT FT-IN MM
 HORIZ LENGTH FT-IN MM
 OPER TEMP: TOP 5(50) BOTT 75(167) DRUM _____ °C(°F)
 MAX TEMP: TOP BOTT DRUM _____
 OPER PRESS _____ OR 57 mm Hg ABS PSIG KG/CM²
 MAX OPER PRESS _____ OR _____ mm Hg ABS PSIG KG/CM²
 CORROSION ALLOW: SHELL 1/32 DECK _____ IN MM

NOTE 12 DES TEMP 149 (300) °C(°F)
 DES PRESS 16 VAC FULL VACUUM PSIG KG/CM²
 HEADS: ELLIP DISHED CONE FLAT
 CODE: API-ASME ASME OTHER: D-211; D-251

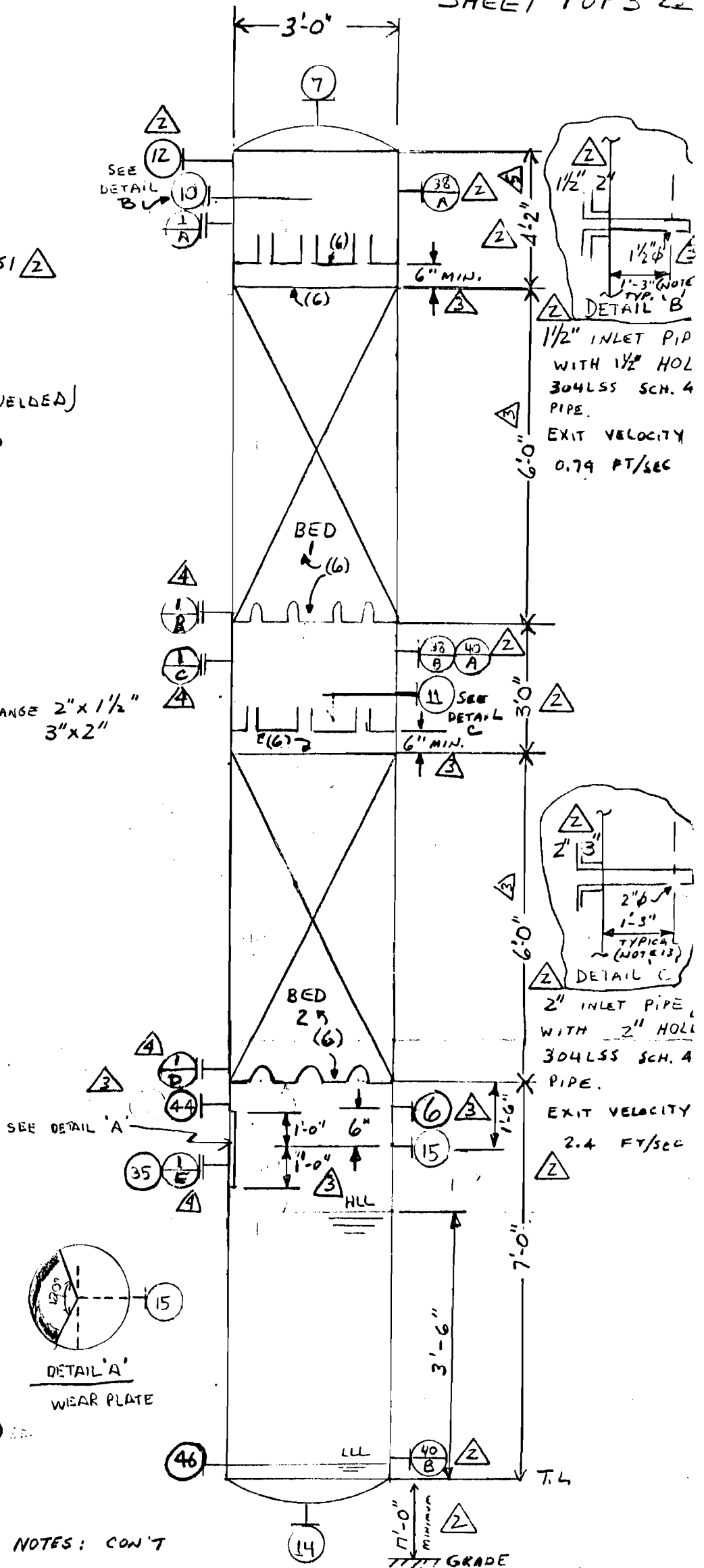
STRESS RELIEVED: YES _____ CODE _____
 RADIOGRAPHED: YES SPOT MIN CODE ASME
 EARTHQUAKE: WIND _____ MPH KM/HR EXCLUDING CA

MATL: SHELL 304LSS LINER THK 3/16 MIN IN MM
 INSULATION: CONSERV'N PROTECT'N NONE
 DECK MATL: C STL ALLOY 304 OR 304L (IF WELDED)

NOZZLES: SERIES ISO # RF CPLGS: RATING NONE ALLOWED

ITEM NO.	NO. REQD	SIZE IN/IN	SERVICE & SYMBOL
1	5	20	MANHOLE
2			MANHOLE
3			
4			
5			HANDHOLE
6	1	3	SPARE (FEED) w/ COVER
7	1	12	VAPOR OUTLET TO E-4203
8			VENT
9			TO VACUUM EQUIPMENT
10	1	2	REFLUX IN FROM P-4202 REDUCING FLANGE 2"x 1 1/2"
11	1	3	FEED FROM P-4146 REDUCING FLANGE 3"x 2"
12	1	1 1/2	FEED FROM NITROGEN INTERLOCK
13			FEED FROM
14	1	8	TO (REBOILER) (REB. PUMP) P-4201 A/B
15	1	12	FROM REBOILER
16			EQUALIZING LINE WITH
17			BOTTOM OUTLET TO
18			LIQUID OUTLET TO
19			DRAFF TO
20			RETURN FROM
21			DRAFF TO
22			RETURN FROM
23			DRAFF TO
24			RETURN FROM
25			REFLUX DRAFF TO
26			REFLUX IN, FROM
27			REFLUX DRAFF TO
28			REFLUX IN, FROM
29			PROCESS STEAM
30			STEAM OUT (SO)
31			DRAIN
32			SAMPLE CONN. (S), COOLER (SC)
33			SAFETY VALVE (SV)
34			SAFETY VALVE (PVS) (VSV)
35	1	2	UTILITY CONNECTION
36			PRESSURE INDICATOR (PI)
37			PRESSURE CONTROLLER (P C)
38	2	1 1/2	PRESSURE TAP (PT)
39			
40	2	1 1/2	TEMPERATURE INDICATOR (TI)
41			TEMPERATURE CONTROLLER (T C)
42			TEMPERATURE RECORDER (TR)
43			TEMPERATURE WELL (TW)
44	1	1 1/2	LEVEL TAP/PRESSURE TAP
45			GAUGE GLASS (LG)
46	1	3	EXTERNAL LEVELLIC/LAN/LAL (PAR MOUNTED)
47			INTERNAL LEVEL
48			LEVEL ALARM (LA)
49			
50			

FLANGED NOZZLES ARE NUMBERED 1-50. FOR COUPLING ADD 50 TO NOZZLE NO.



- NOTES: 1 - SHOW OPERATING LIQUID LEVELS AND LOCATION OF ALL CRITICAL CONNECTIONS.
 2 - SHOW DESIRED TANGENT LINE TO GRADE DIMENSION (MIN OR MAX) AND SPECIFY SKIRT "TO-SUIT" IF NECESSARY.
 3 - ALL PRESSURES ARE GAUGE UNLESS OTHERWISE SPECIFIED.
 4 - SMALL COUPLINGS PERMITTED BY SOME SPECS.
 5 - INDICATE SPECIFIC GRAVITY OF LIQUIDS AT OPERATING TEMPERATURE.

- NOTES: CONT
 6 - SEE SHEET 2 & 3 OF 3 FOR PACKING AND INTERNALS DESIGN DATA
 7 THRU 11 - DELETED
 12 - VESSEL WILL BE STEAMED OUT AT 1210°C (2500°F)
 13 - FEED NOZZLES #10 & #11 INSERTS TO BE COMPATIBLE WITH DISTRIBUTORS SELECTED.
 14 - SPEC. GRAV. TOP @ 102°F = 0.863, BOT @ 167°F = 0.865

REV NO.	DESCRIPTION	DRN	PROC ENG	JOB ENG	APPD	APPD	DATE
1	REVISED AS NOTED DIAMETER & MANHOLES		RJ				4/12/84
2	REVISED AS NOTED		RJ				5/22/84
3	APPROVED FOR DESIGN						3/29/84
4	FOR APPROVAL		RTB				11/14/83
5	FOR COMMENTS						
6	REVISED AS NOTED VERT. HT & DIMENSION TOP BED TO T.L.		RJ				4/12/84

THE LUMMUS COMPANY

JOB NO. 2858 CUST NO. _____
 TITLE 7-HYDROXY PLANT NO. 4
 CUST FMC AT BALTIMORE, MD.

PROCESS VESSEL SKETCH

VESSEL NO. C-4201 DWG NO. _____