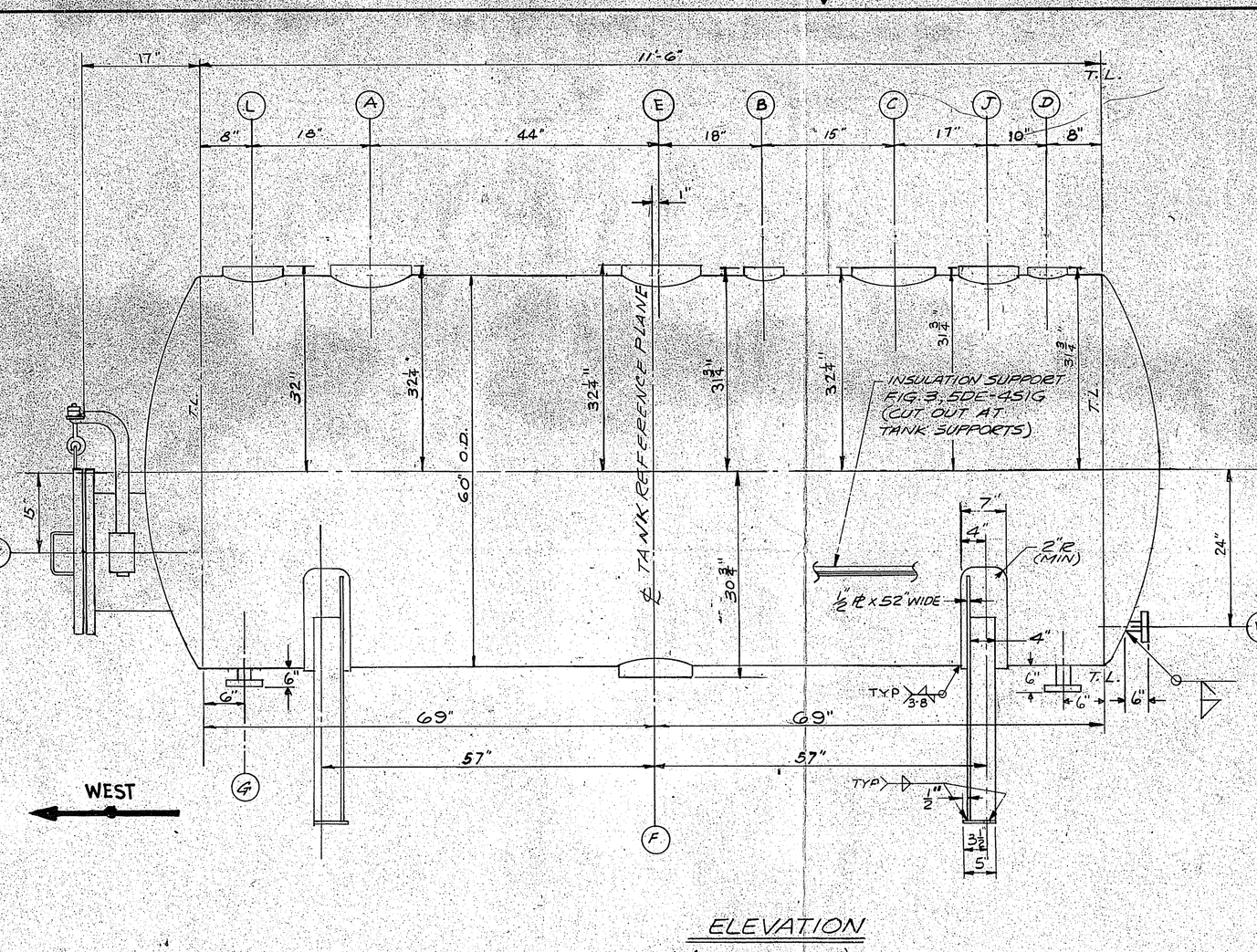
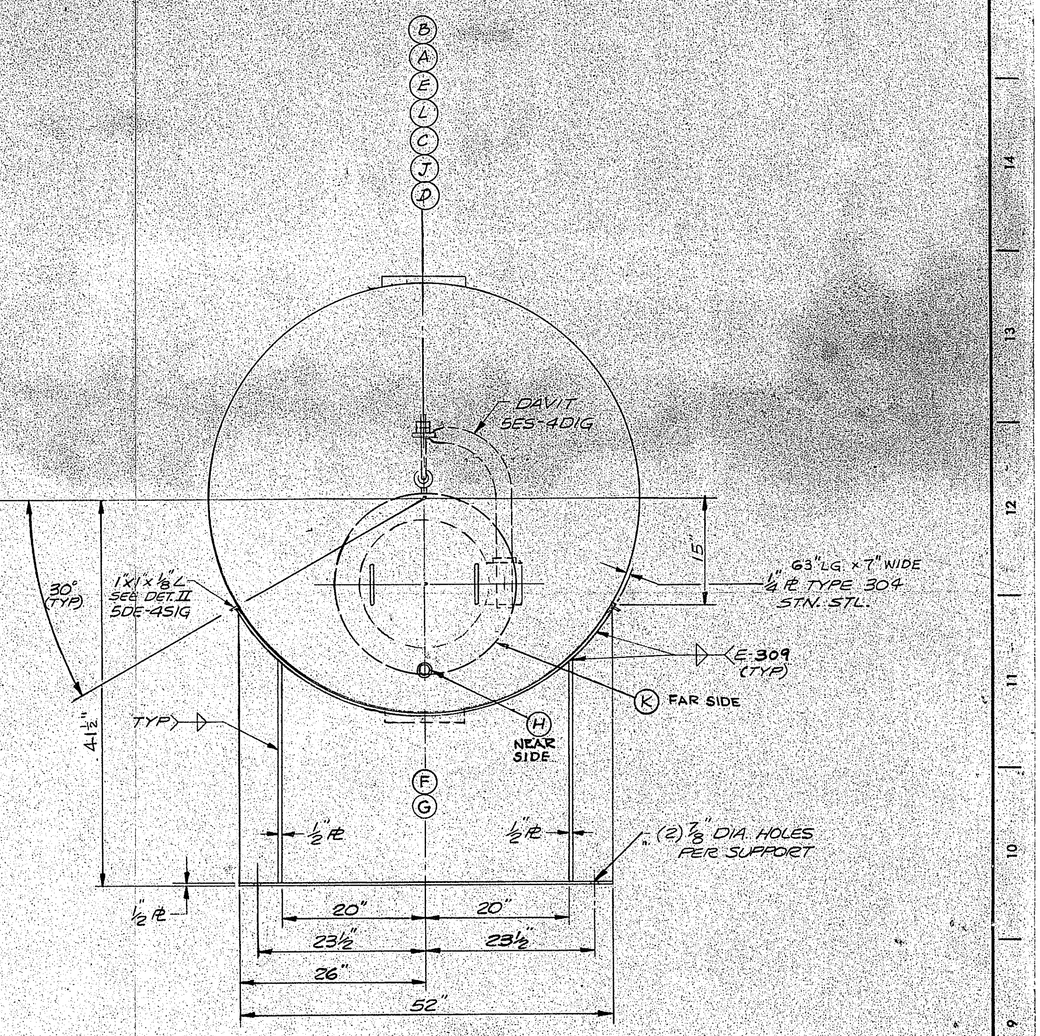
HERCULES

## VESSEL SPECIFICATIONS

| | | | | | |
|---|---|---|---|---|---|
| REFERENCE | 1 | PLANT HANOVER | EQUIP. NAME | SCRUBBER TANK (PURE DMT) | |
| | 2 | AREA No. | EQUIP. No. | T-4515 | |
| | 3 | BLDG. CRYSTALLIZATION No. | No. UNITS | ONE | |
| | 4 | ORDER VENDOR | B.P.F. No. | | |
| PROCESS AND GENERAL INFORMATION | 5 | MATERIAL IN VESSEL PURE DMT | WATER WT. 8.34 LB./GAL. | | |
| | 6 | CAPACITY OPERATING GALS. DESIGN GALS. | TOTAL VOL. 1,775 GALS. | | |
| | 7 | AGITATION NO | | | |
| | 8 | USE SCRUBBER TANK | HORIZONTAL YES | VERTICAL NO | |
| | 9 | HEATED NO COOLED NO JACKET NO COIL NO | OTHER NONE | | |
| | 10 | PRESSURE & TEMPERATURE: SHELL: | JACKET OR COIL: | | |
| | 11 | DESIGN 0 PSIG AT 200 °F | PSIG AT °F | | |
| | 12 | OPERATING ATMOS PSIG AT 150 °F | PSIG AT °F | | |
| | 13 | TEST HYDROSTATIC FULL OF WATER HOLD 2 HOURS | PSIG HOLD 2 HOURS | | |
| | 14 | CORROSION ALLOWANCE NONE | | | |
| | 15 | CONSTRUCTION CODE 5CS-3T1 | STAMPING NONE | | |
| | 16 | INSPECTION: HERCULES YES NATIONAL BOARD NO | OTHER VENDOR | | |
| | 17 | X-RAY INSPECTION NO | FILM INSPECTION: HERCULES NO | NATIONAL BOARD NO | |
| | 18 | THERMAL TREATMENT NO | | | |
| | 19 | PASSIVATION: INSIDE NO | OUTSIDE NO | | |
| | 20 | CLEANING 5CS-3T1 PAINTING 5CS-3T1 | CARBON STL. PARTS - ONE COAT OF SHOP PRIMER PER 11CS-661 | | |
| | 21 | WEIGHTS: EMPTY 3,900 LBS. FILLED WITH WATER 18,700 LBS. | EXTERNAL LOADING: 1,500 LBS. (INSUL. & JETS) | | |
| | 22 | FILLED WITH CONTENTS — LBS. | TOTAL MAXIMUM LOAD 20,200 LBS. | | |
| SHELL | 23 | MATERIAL STAINLESS STEEL, ASME SA-240, TYPE 304 | | | |
| | 24 | DIAMETER 60" O.D. THICKNESS ¼" | LENGTH STRAIGHT SHELL 11'-6" | | |
| | 25 | SEAMS: WELDED ELECTRIC | JOINT TYPE DOUBLE BUTT EFFICIENCY — | | |
| HEAD | 26 | | LEFT END | RIGHT END | |
| | 27 | MATERIAL | STN. STEEL, ASME SA-240, TYPE 304 | STN. STEEL, ASME SA-240, TYPE 304 | |
| | 28 | TYPE | STD. F. & D. | ST'D. F. & D. | |
| | 29 | BOLTED OR WELDED | ELECTRIC | ELECTRIC | |
| | 30 | THICKNESS | ¼" NOM. | ¼" NOM. | |
| NOZZLES | 31 | MATERIAL STN. STEEL, ASME SA-312, TP 304 | THICKNESS SEE NOZZLE DATA | | |
| | 32 | TYPE PADS WITH B | AMER. STD. FLGS. | | |
| | 33 | MANHOLE YES (18") | | | |
| GASKETS | 34 | FOR TEST J.M. #60, 1/16" THICK | | | |
| | 35 | FOR COMPLETED CONNS. SUPPLY NEW FLEXITALLIC, STYLE "CG" 316 SS | | | |
| JACKETS | 36 | MATERIAL | DIAMETER | THICKNESS | |
| | 37 | TYPE HEAD | | THICKNESS | |
| | 38 | | | | |
| COILS | 39 | MATERIAL | PIPE DIAMETER | THICKNESS | |
| | 40 | TYPE | LIN. FT. | SQ. FT. SURFACE | |
| | 41 | | | | |
| SUPPORTS | 42 | LUGS NO LEGS NO SKIRT NO SADDLES YES OTHER NONE | | | |
| BOLTING | 43 | | INTERIOR | EXTERIOR | |
| | 44 | BOLTS OR BOLT STUDS | NONE | HEX. HD. BOLTS - HVY. PATT. (GALV) | |
| | 45 | MATERIAL | NONE | ALLOY STL. ASME - SA-193 - GR. B7 | |
| | 46 | NUTS: TYPE AND MATERIAL | NONE | HEX. NUTS - HVY. PATT. GALV, CAR. STL. ASME SA-194 GR. 2 OR 2H | |
| MISCEL. | 47 | INSULATION BY OTHERS | | THICKNESS 1½" | |
| | 48 | ALL GASKET SURFACES TO BE 125 RMS FINISH OR SMOOTHER | | | |




ELEVATION
(LOOKING NORTH)




END VIEW
(LOOKING WEST)

### NOZZLE DATA

| NOZZLE | SIZE | USE | DWG. No. | NOZZLE | SIZE | USE | DWG. No. |
|---|---|---|---|---|---|---|---|
| A | 12" | JET INLET | ① | L | G" | JET INLET | ② |
| B | 2" | INLET-MOTHER LIQUOR | ② | M | 1" | DRAIN | 150# FLGD. |
| C | 12" | VAPOR OUTLET | ② | | | | |
| D | 3" | VENT COND. INLET | ② | | | | |
| E | 12" | JET INLET | ① | | | | |
| F | 8" | OUTLET | ② | | | | |
| G | 1" | THERMOWELL | 150# FLGD. | | | | |
| ▲ H | 1" | SAMPLE | 150# FLGD. | | | | |
| J | 4" | LIQ. LEVEL | ② | | | | |
| ✱ K | 18" | MANHOLE | 026-1027 5SCOS-1WE | | | | |

✱ WITH DAVIT - 5ES-4DIG
▲ WITH PLUG
① 026 - 2026 - 53017 - 1WE
② 026 - 2026 - 53018 - 1WE

1"=1'-0" 0 3" 6" 9" 1' 2' 3' 4' 5' 6'
GRAPHIC SCALES

| NO. | DATE | JOB NO. | DESCRIPTION | RVS'D. | CK'D. | APP'D |
|---|---|---|---|---|---|---|
| 3 | 8/4/00 | | REVISE STUDDING OUTLETS | LSM. | | JSQ |
| 2 | 5/24/72 | 026035 | ELEV. FOR Ⓔ WAS 31⅜" NOZZ. DIM. Ⓑ TO Ⓒ WAS 18" & Ⓒ TO Ⓙ WAS 16" CONST. DOES NOT L.I. STUB GOES TO PAD - RELOCATED R&H | W.H.B. | K A N | HJ U |
| 1 | 5-3-72 | 026035 | GENERAL CHECKING REVISIONS | LHS | AAA. | HJ |
| 0 | 3-4-72 | 026035 | | GT | RJP | |
| A | 12-1-71 | 26035 | FOR BIDDING | H.D.G. | | |

REVISIONS

| NO. | DATE | JOB NO. | DESCRIPTION | RVS'D. | CK'D. | APP'D |
|---|---|---|---|---|---|---|

REVISIONS

| NO. | DATE | JOB NO. | DESCRIPTION | RVS'D. | CK'D. | APP'D |
|---|---|---|---|---|---|---|

REVISIONS

| TITLE | PLANT | ACCOUNT | CLASSIFICATION | FILE CODE |
|---|---|---|---|---|
| VENDOR'S DWG. | | | BPF 22459 | |
| PAINT SPEC'S. | | | 11CS-661 | |
| DAVIT | | | 5ES-4DIG | |
| MANHOLE | 026 | 2027 | 53005 | 1WE |
| INSULATION SUPPORTS | | | 5DE-451G | |
| FABRICATION SPECS. | | | 5CS-371 | |

REFERENCE DRAWINGS

| TITLE | PLANT | ACCOUNT | CLASSIFICATION | FILE CODE |
|---|---|---|---|---|

REFERENCE DRAWINGS

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VPF NO.: 39092WN
EQUIPMENT NO.: T-4515R
PROJECT NO.: 147-9440
P.O. NO.:
APPROVED BY: S. QUERY
SHEET NO.:
ACCT. NO.: 2030
DATE: #103835 08/09/00

B 0433-W | 026035
MICRO FILM NUMBER | JOB NUMBER

| | | DATE |
|---|---|---|
| SCALE | 1" = 1'-0" | |
| DRAWN | N.D. GARRETT | 12-1-71 |
| CHECKED | R. G. Pehrman | 3-4-72 |
| APPROVED | W. D. Hagen | 3-4-72 |
| APPROVED | [illegible] | 3-7-72 |
| APPROVED | N. D. Garrett | 3-13-72 |
| APPROVED | H. G. Schuler | 3-13-72 |
| APPROVED | P.J. Seeley | 3-14-72 |
| APPROVED | [illegible] | 3-14-72 |
| APPROVED | | |

HERCULES INCORPORATED
PLANT HANOVER
BUILDING CRYSTALLIZATION AREA
T.P.A. PRODUCTION LINE
SCRUBBER TANK (PURE DMT) T-4515
ASSEMBLY & DETAILS

DRAWING NUMBER

| PLANT | ACCOUNT | CLASSIFICATION | FILE CODE | REV. |
|---|---|---|---|---|
| 026 | 2030 | 52071 | 5WE | 3 |

MICRO FILM REV. NO.