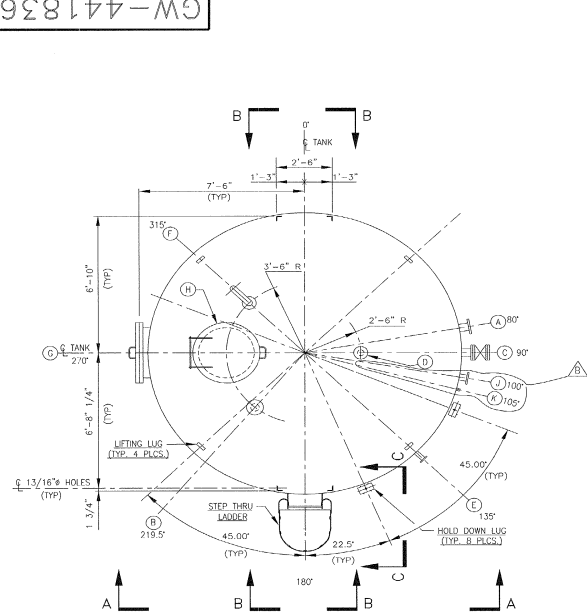
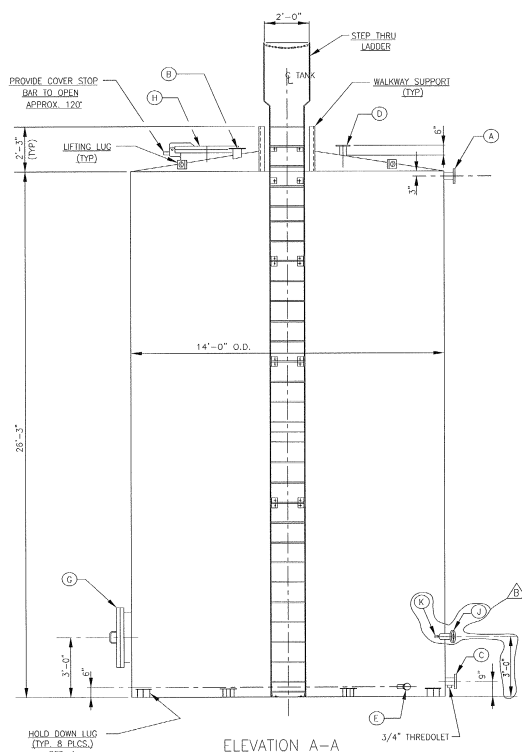
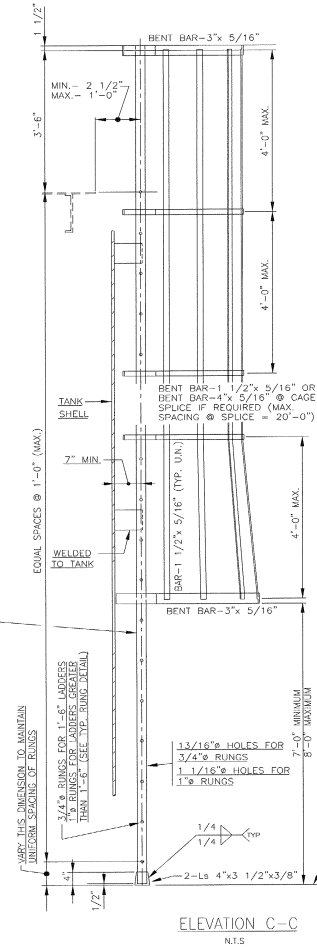


**HOLD DOWN LUG
DETAIL - 1**
SCALE: NONE



FOR BALL SIZE SEE GENERAL NOTE #7
GRIND EDGES SMOOTH TO THE HAND



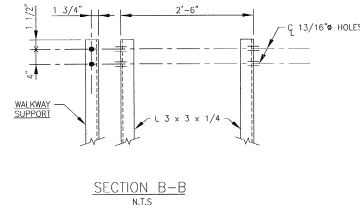
ELEVATION C-C
N.T.S.

AMMONIA SULFATE TANK - (STAINLESS STEEL)
(1-REQUIRED)

NOZZLE SCHEDULE									
MARK	RECD	SIZE	RATING	FACING	TYPE	REMARKS			
A	1	4"	150#	R.F.	S.O.	OVERFLOW			
B	1	4"	150#	R.F.	S.O.	OUTLET			
C	1	4"	150#	R.F.	S.O.	INLET			
D	1	3"	150#	R.F.	S.O.	DRAW			
E	1	3"	150#	R.F.	S.O.	VENT			
F	1	3"	150#	R.F.	S.O.	SIDE MANWAY WITH COVER			
G	1	3"	150#	R.F.	S.O.	TYP MANWAY WITH COVER			
H	1	3"	150#	R.F.	S.O.	LEVEL TRANSMITTER			
I	1	3"	150#	R.F.	S.O.	THERMOMETER			

DESIGN

- 1) PRODUCT- AMMONIA SULFATE
- 2) PRODUCT SPECIFIC GRAVITY- 1.24
- 3) PRODUCT MAX. INLET TEMPERATURE- 120° F
- 4) PRODUCT TEMPERATURE IN TANK- TO BE MAINTAINED @ 70° F.
- 5) NOMINAL TANK CAPACITY- 30,000 GAL.
- 6) DESIGN TANK FOR SEISMIC ZONE 1 & 85 MPH WIND LOAD
- 7) OPERATING CONDITIONS- OUTSIDE IN COKE PLANT @ ATMOSPHERIC PRESSURE & AMBIENT TEMPERATURE
- 8) TESTING- HYDROSTATICALLY SHOT TESTED FULL OF WATER PLUS 5 PSIG
- 9) TANK DESCRIPTION- FLAT BOTTOM, CONE TOP, VERTICAL, CYLINDRICAL WALLS
- 10) MATERIAL OF CONSTRUCTION - STAINLESS STEEL 316L
- 11) DESIGN CODES- ALL LATEST APPLICABLE ASTM CODES (INCLUDING ASTM D-2583 & D-3299) & LATEST INDUSTRY STANDARDS
- 12) ROOF- NON SKID SURFACE CAPABLE OF SUPPORTING A MAN'S WEIGHT
- 13) INNER SURFACE SHALL BE FREE OF CRACKS & CRAZING
- 14) NOZZLES SHALL BE ANSI STANDARD FLANGE WITH 150# DRILLING WITH BOLT HOLES STRADDLING THE TANK CENTERLINE
- 15) EACH TANK SHALL BE FURNISHED WITH A NAMEPLATE
- 16) TANK VENDOR'S INSPECTION REPORTS, TEST WORK DATA, ETC. SHALL BE MADE AVAILABLE FOR U.S. STEEL'S REVIEW
- 17) STEEL- ALL STEEL SHALL BE GALVANIZED CARBON STEEL ASTM A-36
- 18) MANWAY GASKETS ARE TO BE 1/8" THICK CARLOCK 3400 OR EQUAL
- 19) FINAL DESIGN BY VENDOR. THE VENDOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR THE STRUCTURAL DESIGN OF EACH TANK.
- U.S. REPRESENTATIVE TO WITNESS HYDRO TEST.



SECTION B-B
N.T.S.

**GARY COKE OPERATIONS
WASTEWATER TREATMENT PLANT
AMMONIA SULFATE TANK (TANK No. 1)
TANK ARRANGEMENT**

U.S. Steel Group, A Unit of USX Corporation
Gary Works

PREPARED BY	DATE	CHECKED BY	DATE	SCALE
DJP	03/03/97	INITIALS	___/___/97	3/8" = 1'-0"

DRAWN BY: DJP
DESIGNED BY:
CHECKED BY:
APPROVED BY:
APPROVED BY:

03/03/97
FILE SPEC: GW441836
ENGINEERED BY
R.T. PATTERSON CO., INC.
ENGINEERS & CONSULTANTS
PITTSBURGH PA. & HIGHLAND IN. &
EVANSVILLE IN. & CLEVELAND OH. &



REV.	DESCRIPTION	DATE	BY	CHK.	JOB NO.
2					
1					
0					
D					
C					
B					
A	ISSUED FOR CONSTRUCTION	11/2/98	RTD/NF	EF	

GW-441836