



NO.	BY	CHK	APP	DATE	REVISION DESCRIPTION

DATE	REG. NO.

CLIENT	BID	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED

Scale	Date	Drawn	Checked	Approved
NONE	2/10/05	JDPetrick		

Scale	Date	Drawn	Checked	Approved
NONE	2/10/05	JDPetrick		

Scale	Date	Drawn	Checked	Approved
NONE	2/10/05	JDPetrick		

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A FULL REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

BARRE PROJECT NO. 23/31-286-E002
CLIENT PROJECT NO. NASHWAUK, MINNESOTA
FIGURE NO. 13-3
DWG. NO. MF-007
REV. NO. A

IRON ORE PROCESSING PLANT
WATER USE FLOW SHEET
STEEL MAKING, TSC AND HSM

MINNESOTA STEEL INDUSTRIES
HIBBING, MINNESOTA

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NOTE:
 FLOWS SHOWN ARE FOR NORMAL OPERATING CONDITIONS.

LEGEND:

- FRESH OR FILTERED WATER
- DEMINERALIZED WATER
- DIRECT COOLING WATER
- INDIRECT COOLING WATER
- LAMINAR FLOW WATER

LEGEND:

- FLUME
- SKIMMER
- LONGITUDINAL SCALE PIT (2-CELLS)
- TO PROCESS WATER SLUMP
- INDOOR FLOORS DRAINAGE
- MAN HOLE W/ OIL SEPARATION SYSTEM
- TAILINGS THICKENER MF-003