



- NOTE:
- FABRICATION SHOP TO BE REFERRED TO AS SUBCONTRACTOR. MACTEC-ERS TO BE REFERRED TO AS CONTRACTOR.
 - SUBCONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR NECESSARY FOR FABRICATION OF COLUMN UNLESS NOTED ON DRAWING.
 - WORK SHALL BE PERFORMED BY "CERTIFIED WELDERS".
 - FABRICATE COLUMN TO PROVIDE WATER TIGHT JOINTS WHEN FULLY ASSEMBLED. SUBCONTRACTOR SHALL HYDROSTATICALLY TEST COLUMNS AT 100 PSI AND PROVIDE WATER SOURCE AT THAT PRESSURE. CONTRACTOR WILL PROVIDE NECESSARY PIPE FITTINGS FOR TEST AND BE PRESENT DURING TESTING.
 - SUBCONTRACTOR SHALL DELIVER COMPLETED COLUMN TO CONTRACTOR'S PROJECT SITE LOCATED IN WEST RIFLE, COLORADO. CONTRACTOR WILL PROVIDE MEANS FOR UNLOADING COLUMN.
 - PAINTING: ALL SURFACES TO BE PAINTED SHALL BE BUFFED BY WIRE BRUSH METHOD OR EQUIVALENT PRIOR TO PRIMING. APPLY ONE COAT OF RED OXIDE PRIMER. APPLY TWO COATS OF GRAY ENAMEL PAINT.
 - EXCESS REMAINING PERFORATED METAL FROM PURCHASED SHEETS SHALL BE PROVIDED TO CONTRACTOR.

COLUMN DATA									
CAPACITY (GALS.)	COMPLETE COLUMN ONLY	ZVI CHAMBER TOTAL		VOLUMES (G.F.)		WEIGHTS (LBS.)		TOTAL COLUMN	TOTAL COLUMN
		IRON	WATER	IRON	WATER	IRON	WATER		
106	70.5	14.14	4.72	9.42	4480	2286	588	1608	

- COMPLETE COLUMN CAPACITY AND TOTAL VOLUME INCLUDES UPPER AND LOWER CHAMBER.

- MATERIAL SPECIFICATION**
- ALL FLANGES: CLASS 150
 - 2'-0" PIPE: CARBON STEEL, STANDARD WEIGHT, (0.375 WALL THICKNESS.)
 - 4" THREADED OUTLET: "BONNEY WELDOLETS" OR EQUIVALENT. SAMPLE SOURCE: BONNER PIPE AND SUPPLY.
 - 5/32" DIAMETER PERFORATED METAL: 5/32" DIAMETER HOLES, 3/16" STAGGERED CENTERS 33 HOLES PER SQUARE INCH, 63% OPEN AREA 16 GAUGE PLATE.
 - 3/4" DIAMETER PERFORATED METAL: 3/4" DIAMETER HOLES, 1" STAGGERED CENTERS 1.1 HOLES PER SQUARE INCH, 51% OPEN AREA 1/4" THICK PLATE.
 - GASKET KITS: TO PROVIDE WATER TIGHT APPLICATION: BOLTS W/NUTS AND FLAT WASHERS.

REVISION NO.		DATE		DESCRIPTION	
U.S. DEPARTMENT OF ENERGY					
GRAND JUNCTION OFFICE, COLORADO					
NEW RIFLE SITE					
25 GPM-TREATMENT FACILITY					
ZVI 24 INCH DIAMETER STEEL COLUMN					
PROJECT LOCATION		APPROVALS		DATE	
WEST RIFLE, COLORADO		C.J. WHITNEY		12/01	
		M.W. MADRIL		12/01	
		M.W. MADRIL		12/01	
		K.E. KARP		12/01	
		S.J. MARUTZKY		12/01	
		N.R.			
PROJECT NO.		PROJECT NO.		DATE	
UGW-511-0017-25-006		U01439-R00-M04-D+		7 OF 7	