



ALUMINUM GRATING  
 MIN. UNIFORM SAFE LOAD  
 300 # 1 S.F.

MAX. DEFLECTION = 1/160 SPAN  
 MAX. ALLOWABLE FIBER STRESS = 12,000 PSI  
 TYPE B-3 : H.J. THELEN BRONZE CO. (ZELIEONOPLE, PA)  
 WASHINGTON ALUMINUM CO. (BALTIMORE MD)  
 OR EQUAL.

NOTES:

1. ALL ALUMINUM SURFACES THAT ARE IN CONTACT WITH CONCRETE SHALL BE PAINTED WITH TWO (2) COATS OF HEAVY BITUMASTIC PAINT
2. METHODS OF ANCHORING GRATING ASSEMBLY TO MANHOLE WALL VIA ANCHOR BOLTS SHALL BE UNACCEPTABLE.
3. GALVANIZED STEEL GRATING AND / OR SUPPORTS SHALL BE UNACCEPTABLE.



**CHESTER ENGINEERS**  
 Chester Engineers  
 260 Airside Drive, Moon Twp., PA 15108-2793  
 (412)809-6600 FAX(412)809-6611  
 www.chester-engineers.com

Drawing  
 2-31A

SCALE: NONE	DATE: 12/06
SHEET: 2 OF 2	STD. NO. 2-31A

McCANDLESS TOWNSHIP SEWER AUTHORITY  
 ALLEGHENY COUNTY, PENNSYLVANIA  
 PRECAST CONCRETE MANHOLE  
 FOR DEEP SEWER INSTALLATIONS  
 (GREATER THAN 25 FEET DEEP)