



SPECIFICATIONS: ASTM A449-14 TYPE 1

ROUND BAR: YIELD STRENGTH-1" AND LESS 92 KSI MIN
 YIELD STRENGTH->1" AND 1 1/2" INCL. 81 KSI MIN
 YIELD STRENGTH->1 1/2" AND 3" INCL. 58 KSI MIN
 TENSILE STRENGTH-1" AND LESS 120 KSI MIN
 TENSILE STRENGTH->1" AND 1 1/2" INCL. 105 KSI MIN
 TENSILE STRENGTH->1 1/2" AND 3" INCL. 90 KSI MIN
 ELONGATION-2"-14% MIN.
 REDUCTION AREA- 35% MIN.

GALVANIZE: ASTM-A153, CLASS C

NUTS: ASTM A563-GR DH, ANSI B18.2.2

THREADS: UNIFIED NATIONAL COARSE
 ANSI B1.1 CLASS 2A
 THREADS ARE ROLLED OR CUT.

WASHERS: ASTM F-436

| | | | | FLAT HOOK BOLT GR A449 | | |
|-----------|-------------|------|----|------------------------|---------------|-----------------|
| | | | | REVISION: A | P.O. COMPANY: | DRAWN BY: JEP |
| | | | | DATE: | P.O. NUMBER: | CHECKED BY: AJS |
| | | | | CONTRACTOR: | | |
| | | | | J. H. Botts LLC | | |
| | | | | DWG. NO. | | |
| A | FOR RELEASE | | | | | |
| REV # | DESCRIPTION | DATE | BY | | | |
| REVISIONS | | | | | | |
| | | | | 1 of 1 | | |