

**MATERIALS:**

THIS PRODUCT IS DESIGNED TO WITHSTAND LOADING IN NON-DELIBERATE AND INCIDENTAL TRAFFIC AND ARE NOT TO BE INSTALLED IN THE ROADWAY. METER BOXES SHALL BE BLACK AND CONSTRUCTED OF MODIFIED POLYETHYLENE MATERIAL FOR MAXIMUM DURABILITY AND CORROSION RESISTANCE. THE BLACK MATERIALS IS FOR MAXIMUM ULTRAVIOLET PROTECTION. THE BLACK MATERIAL SHALL BE UNIFORM THROUGHOUT THE METER BOX FOR MAXIMUM LONGEVITY AND NOT HAVE A FOAMING AGENT THAT CREATES AIR POCKETS WITHIN THE PLASTIC WALL.

**VERTICAL AND LATERAL LOAD RATING:**

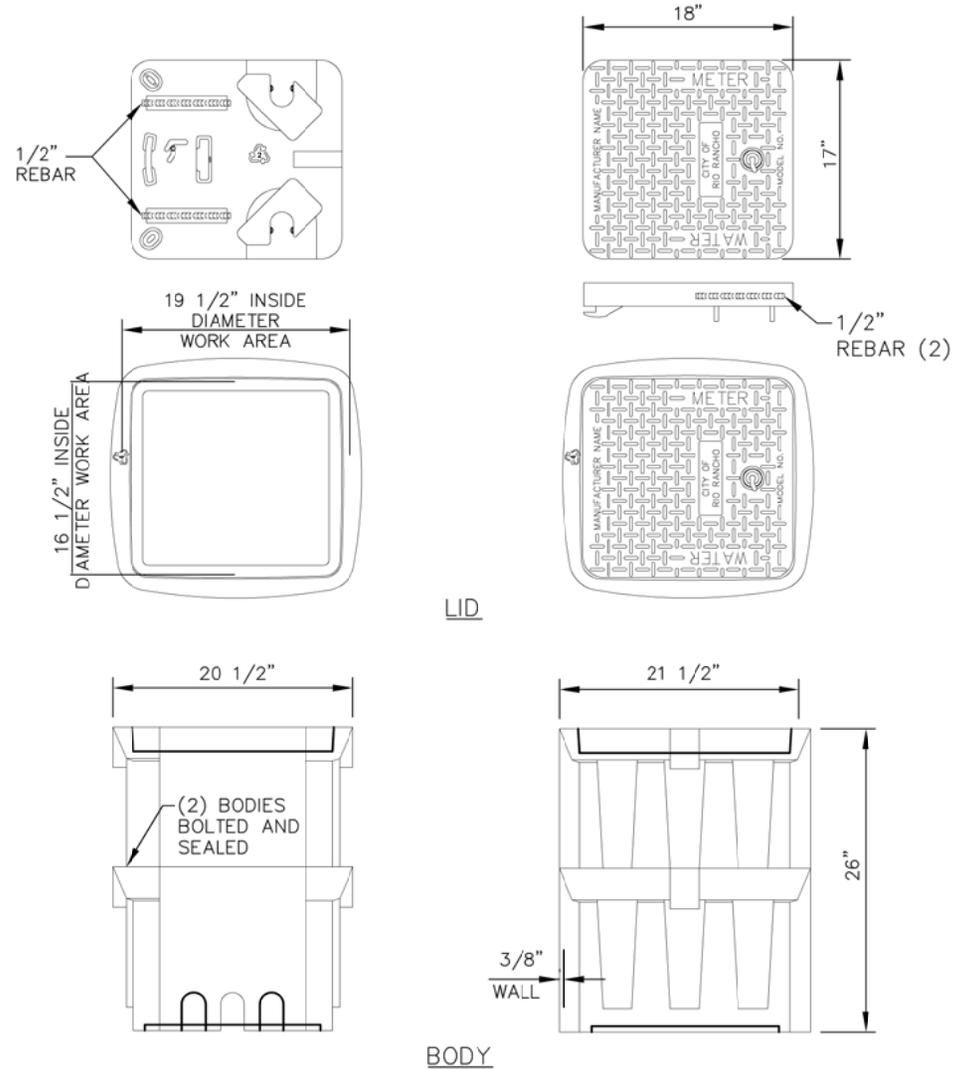
- COMPLIANT WITH AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, DESIGN LOAD OF H-10; AMERICAN SOCIETY FOR TESTING AND MATERIALS STANDARD C857-95, DESIGN LOAD OF A-8, 8,000 LBS, TRANSFERRED THROUGH A 10" BY 10" STEEL PLATE CENTERED IN THE COVER AND BODY.
- COMPLIANT WITH AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, DESIGN LOAD OF H-20; AMERICAN SOCIETY FOR TESTING AND MATERIALS STANDARD C857-95, DESIGN LOAD OF A-16, 16,000 LBS, TRANSFERRED THROUGH A 10" BY 20" STEEL PLATE CENTERED IN THE COVER AND BODY.
- THIS PRODUCT IS DESIGNED TO WITHSTAND H-10 AND H-20 LOADING IN NON-DELIBERATE OR INCIDENTAL TRAFFIC AREAS. NOT INTENDED TO BE INSTALLED IN ROADWAYS.

**POLYMER AMR/AMI LID WITH REBAR:**

- THE POLYMER LID SHALL BE SOLID THROUGH WITH TWO 1/2" REBAR MOLDED IN THE LID FOR LOCATABILITY.
- THE POLYMER LID SHALL HAVE A MOLDED KEY HOLE AND MOLDED LOCK OPTIONS UNDERNEATH LID FOR PLACEMENT OF OPTIONAL SECURITY LOCKING MECHANISM.
- THE POLYMER LID SHALL SEAT SECURELY AND EVENLY INSIDE THE METER BOX AND SHALL NOT OVERLAP THE TOP EDGE OF THE METER BOX.
- THE POLYMER LID SHALL HAVE TWO MOLDED SLIDE MOUNT BRACKETS FOR PLACEMENT OF AUTOMATIC METER READING/AUTOMATIC METER INFRASTRUCTURE DEVICE.
- THE POLYMER LID SHALL HAVE MOLDED TREAD-PATTERN FOR SKID RESISTANCE-TREAD DIMENSIONS SHALL BE 0.188" BY 0.938" BY 0.150" DEEP.
- THE POLYMER LID SHALL HAVE "WATER METER" MOLDED INTO THE LID-FONT SHALL BE STANDARD COMPUTER-NUMERICAL-CONTROL FONT WITH 1" CHARACTERS BY 0.150" DEEP.
- THE POLYMER LID SHALL RETROFIT EXISTING CONCRETE METER BOXES WITH SIMILAR DIMENSIONS AND BE ABLE TO ADJUST IN THE FIELD.
- THE POLYMER LID SHALL BE RECYCLED WITH A MINIMUM OF 50% POST CONSUMER RECYCLED AND 50% POST INDUSTRIAL/PRE-CONSUMER RECYCLED CONTENT-VERIFIED WITH A LEED PRODUCT CERTIFICATION MARKING.

**POLYMER BODY:**

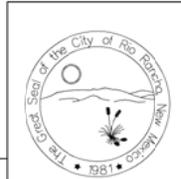
- THE POLYMER BODY SHALL BE BLACK AND HAVE A MINIMUM 3/8" WALL THICKNESS.
- THE TWO POLYMER BODIES SHALL BE BOLTED AND SEALED TO FORM ONE UNIT AT 26" DEEP.
- THE POLYMER BODY SHALL HAVE A MINIMUM INSIDE WORKING AREA OF 19-1/2" BY 16-1/2".
- THE POLYMER BODY SHALL HAVE CRUSH RESISTANT RIBBING ALONG THE OUTSIDE OF THE BOX.
- THE POLYMER BODY SHALL HAVE A FLANGE AROUND THE LID OPENING TO HELP PREVENT SETTLING AND AIDE IN THE ADJUSTMENT TO GRADE.
- THE POLYMER BODY SHALL HAVE ONE PIPE SLOT CUT OUT ON ONE END AND TWO ON OTHER SIDE OF THE BODY THAT MEASURE 3" BY 4".
- THE POLYMER BODY SHALL BE RECYCLED WITH A MINIMUM OF 35% POST INDUSTRIAL/PRE-CONSUMER RECYCLED CONTENT-VERIFIED WITH A LEED PRODUCT CERTIFICATION MARKING.



**GENERAL CONSTRUCTION NOTES:**

1. CONTRACTOR BID JOBS. METER BOXES TO BE SET BY THE CITY OF RIO RANCHO UNLESS OTHERWISE NOTED.
2. DIMENSIONS ± 1/8", UNLESS NOTED OTHERWISE.
3. WALL THICKNESS 3/8" ± 5%
4. SNAP LOCK POCKET WILL RECEIVE AUTOMATIC METER READING/AUTOMATIC METER INFRASTRUCTURE DEVICE ENCODER/RECIEVER/TRANSMITTER.

DATE MODIFIED: OCTOBER 2019



**City of Rio Rancho  
Department of Public Works**

**WATER METER BOX AND LID  
METER SIZE 1" AND SMALLER**

DWG. NO. W-13 APRIL 22, 2016