

APPENDIX 10K
WATER METERS – SMALL

DESCRIPTION

INDEX

DRAWING #

10K-1

NEW SERVICE – RESIDENTIAL WITH SINGLE CHECK OUTLET

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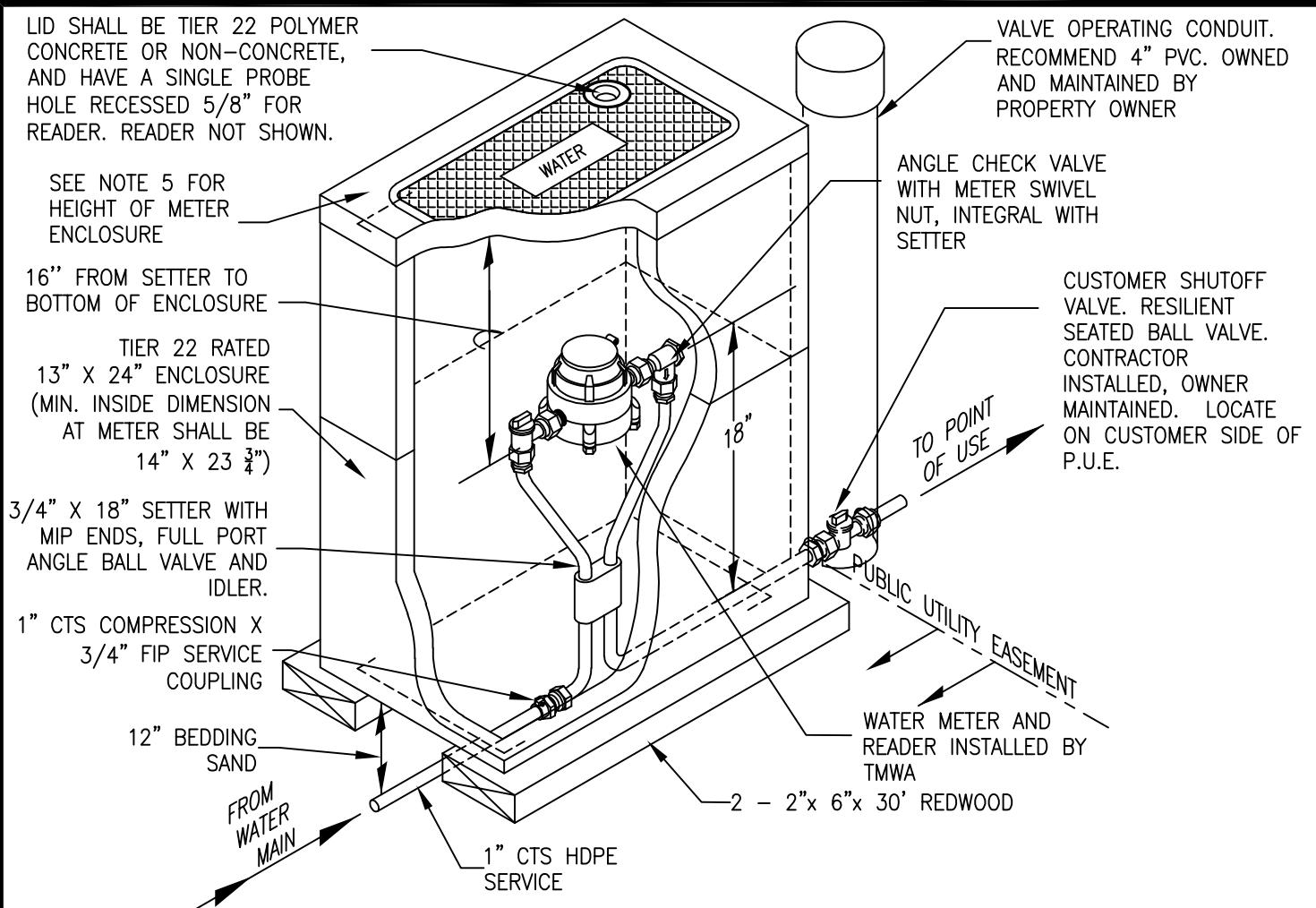
TRAFFIC RATED WATER METER ENCLOSURES

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DATE	APPENDIX 10K WATER METERS - SMALL INDEX	DRAWING NUMBER
6/2004		10K-1
REV		
5/2024		



NOTES:

1. COVER SHALL BE HUBBELL, JENSEN PRECAST, OLDCASTLE, OR CHANNEL AND HAVE: ANSI/SCTE 77 TIER 22 RATING (SEE NOTE 4) AND PROBE HOLE RECESSED 5/8" TO ALLOW FOR FLUSH MOUNT OF READER
2. THERMAL EXPANSION PROTECTION IS REQUIRED IN ANY DOMESTIC WATER SUPPLY SYSTEM. REFERENCE: UNIFORM PLUMBING CODE.
3. METER AND READER SUPPLIED AND INSTALLED BY TMWA.
4. FOR NON-DELIBERATE TRAFFIC AREAS USE 13" X 24" ANSI/SCTE 77 TIER 22 BOX AND COVER. FOR DELIBERATE TRAFFIC AREAS USE 13" X 24" ENCLOSURE APPROVED FOR TRAFFIC RATED H/20 LOADING AND REMOTE READER ENCLOSURE. SEE DETAIL 10K-17 AND 10K-19.
5. TOP OF METER ENCLOSURE SHALL BE SET 0.2 FEET ABOVE HIGHEST FINISHED GRADE SURROUNDING ENCLOSURE WITHIN LANDSCAPED AREAS, AND SHALL BE SET FLUSH WITH SURROUNDING FINISH GRADE IN PAVED AREAS. ENCLOSURE MAY BE ONE PIECE 24" IN HEIGHT OR BE 12" ENCLOSURE WITH A 12" RISER.
6. ENCLOSURE TO BE BACKFILLED WITH WATER PIPE BEDDING SAND ONLY, SEE SECTION 5, TRENCH BEDDING & BACKFILL.
7. 4' X 4' INSULATING BLANKET TO BE INSTALLED ABOVE METER AND BELOW READER.
8. UPON AUTHORITY APPROVAL 18" SETTER MAY BE REPLACED WITH TALLER SETTERS.
9. CONTRACTOR TO INSTALL IDLER WITH ALL SETTERS.
10. CONTRACTOR TO INSTALL SOLID PLUG IN PROBE HOLE OF LID.
11. ALL COMPONENTS IN CONTACT WITH WATER SHALL BE NSF-61 CERTIFIED.

LID SHALL BE TIER 22 POLYMER CONCRETE OR NON-CONCRETE, AND HAVE A SINGLE PROBE HOLE RECESSED 5/8" FOR READER. READER NOT SHOWN.

SEE NOTE 5 FOR HEIGHT OF METER ENCLOSURE

16" FROM SETTER TO BOTTOM OF ENCLOSURE

TIER 22 RATED 13" X 24" ENCLOSURE (MIN. INSIDE DIMENSION AT METER SHALL BE 14" X 23 $\frac{3}{4}$ ')

1" X 18" SETTER WITH MIP ENDS, FULL PORT ANGLE BALL VALVE AND IDLER.

1-1/4" CTS COMPRESSION X 1" FIP SERVICE COUPLING

12" BEDDING SAND

FROM WATER MAIN

VALVE OPERATING CONDUIT. RECOMMEND 4" PVC. OWNED AND MAINTAINED BY PROPERTY OWNER

ANGLE CHECK VALVE WITH METER SWIVEL NUT, INTEGRAL WITH SETTER

CUSTOMER SHUTOFF VALVE. RESILIENT SEATED BALL VALVE. CONTRACTOR INSTALLED, OWNER MAINTAINED. LOCATE ON CUSTOMER SIDE OF P.U.E.

TO POINT OF USE

PUBLIC UTILITY EASEMENT

WATER METER AND READER INSTALLED BY TMWA

2 - 2'X6"X30" REDWOOD

1-1/4" CTS HDPE SERVICE PIPE

NOTES:

1. COVER SHALL BE HUBBELL, JENSEN PRECAST, OLDCASTLE, OR CHANNEL AND HAVE: ANSI/SCTE 77 TIER 22 RATING (SEE NOTE 4) AND PROBE HOLE RECESSED 5/8" TO ALLOW FOR FLUSH MOUNT READER
2. THERMAL EXPANSION PROTECTION IS REQUIRED IN ANY DOMESTIC WATER SUPPLY SYSTEM. REFERENCE: UNIFORM PLUMBING CODE.
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9. CONTRACTOR TO INSTALL IDLER WITH ALL SETTERS.
10. CONTRACTOR TO INSTALL SOLID PLUG IN PROBE HOLE OF LID.
11. ALL COMPONENTS IN CONTACT WITH WATER SHALL BE NSF-61 CERTIFIED.

LID SHALL BE TIER 22 POLYMER CONCRETE OR NON-CONCRETE, AND HAVE A SINGLE PROBE HOLE RECESSED 5/8" FOR READER. READER NOT SHOWN.

SEE NOTE 8

SEE NOTE 5 FOR HEIGHT OF METER ENCLOSURE

16" FROM SETTER TO BOTTOM OF ENCLOSURE

TIER 22 RATED 17" X 30" ENCLOSURE (MIN. INSIDE DIMENSION AT METER SHALL BE 31" X 18")

1-1/2" X 18" SETTER WITH FIP ENDS, FLANGE ANGLE BALL VALVE, FLANGE ANGLE CHECK OUTLET VALVE AND IDLER.

12" BEDDING SAND

FROM WATER MAIN

1 1/2" CTS HDPE SERVICE PIPE

1-1/2" CTS COMPRESSION X 1-1/2" MIP SERVICE COUPLING

WATER METER AND READER INSTALLED BY TMWA

CUSTOMER SHUTOFF VALVE. FULL PORT, RESILIENT SEATED BALL VALVE. CONTRACTOR INSTALLED, OWNER MAINTAINED. LOCATE ON CUSTOMER SIDE OF P.U.E.

TO POINT OF USE

PUBLIC UTILITY EASEMENT

2 - 2" x 6" x 36" REDWOOD

NOTES:

1. COVER SHALL BE HUBBELL, JENSEN PRECAST, OLDCASTLE, OR CHANNEL AND HAVE: ANSI/SCTE 77 TIER 22 RATING (SEE NOTE 4); WEIGHT OF LESS THAN 50 POUNDS (UNLESS APPROVED BY THE AUTHORITY); AND PROBE HOLE RECESSED 5/8" TO ALLOW FOR FLUSH MOUNT OF READER
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7. 4' X 4' INSULATING BLANKET TO BE INSTALLED ABOVE METER AND BELOW READER.
8. DISTANCE BETWEEN FLANGES SHALL BE 13.25".
9. UPON AUTHORITY APPROVAL 18" SETTER MAY BE REPLACED WITH TALLER SETTERS.
10. CONTRACTOR TO INSTALL IDLER WITH ALL SETTERS.
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DATE

6/2004

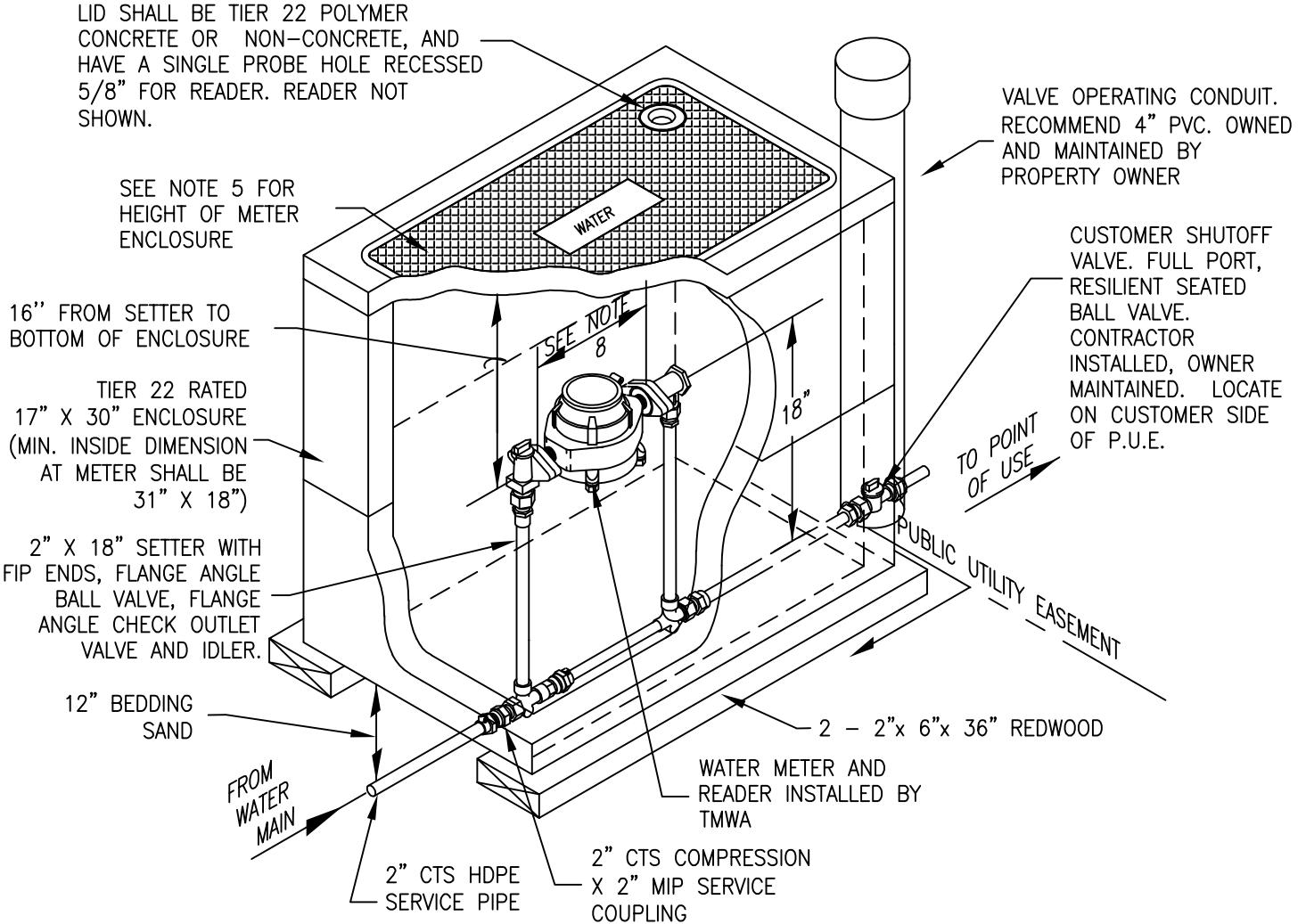
REV

5/2024

APPENDIX 10K
WATER METERS - SMALL
NEW RESIDENTIAL INSTALLATION
1-1/2" SINGLE SERVICE LINE
FOR 1-1/2" SETTER WITH ANGLE CHECK,
METER AND READER

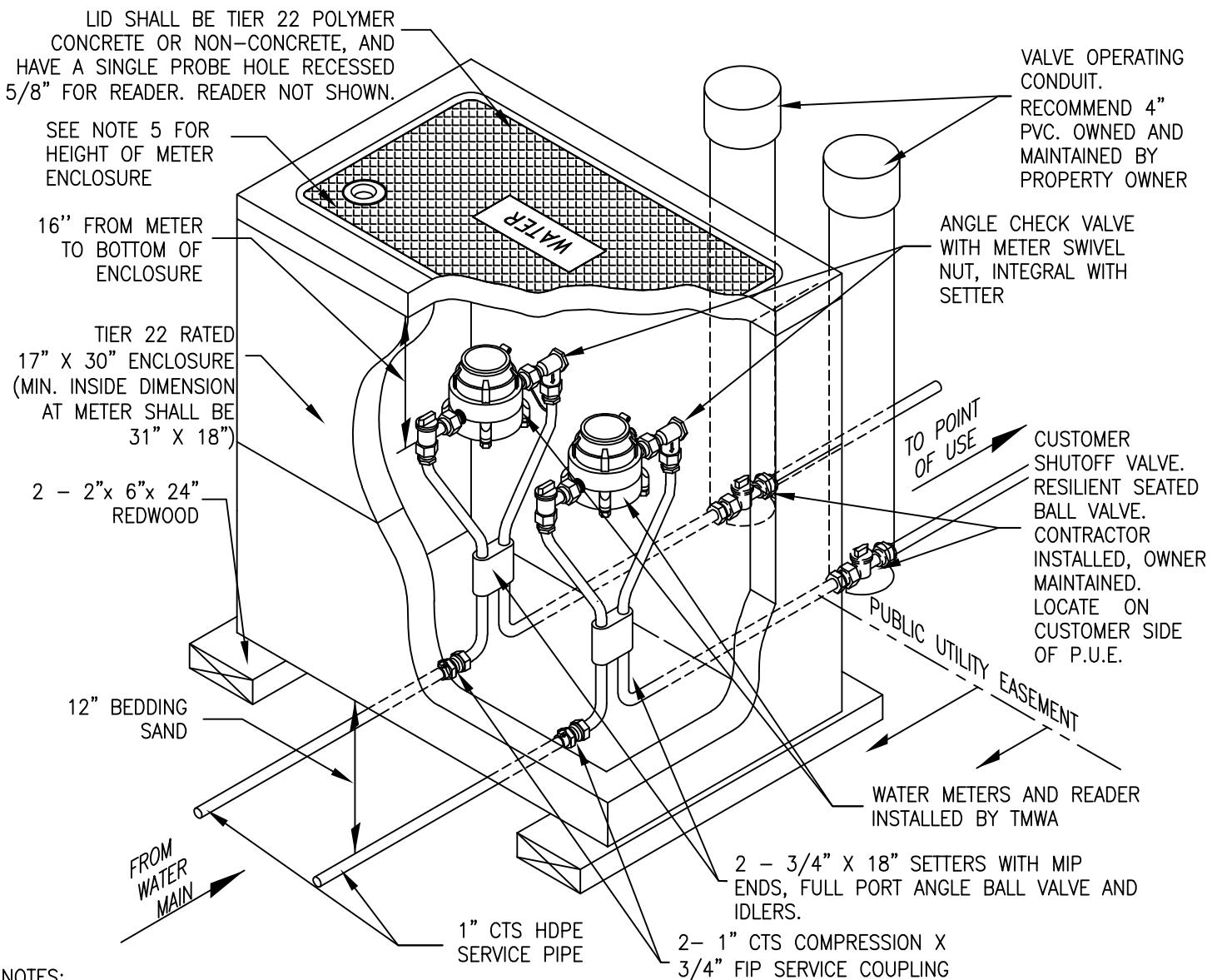
DRAWING NUMBER

10K-4



NOTES:

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7. 4' X 4' INSULATING BLANKET TO BE INSTALLED ABOVE METER AND BELOW READER.
8. DISTANCE BETWEEN FLANGES SHALL BE 17.25".
9. UPON AUTHORITY APPROVAL 18" SETTER MAY BE REPLACED WITH OTHER HEIGHTS.
10. CONTRACTOR SHALL INSTALL IDLER WITH ALL SETTERS.
11. CONTRACTOR TO INSTALL SOLID PLUG IN PROBE HOLE OF LID.
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NOTES:

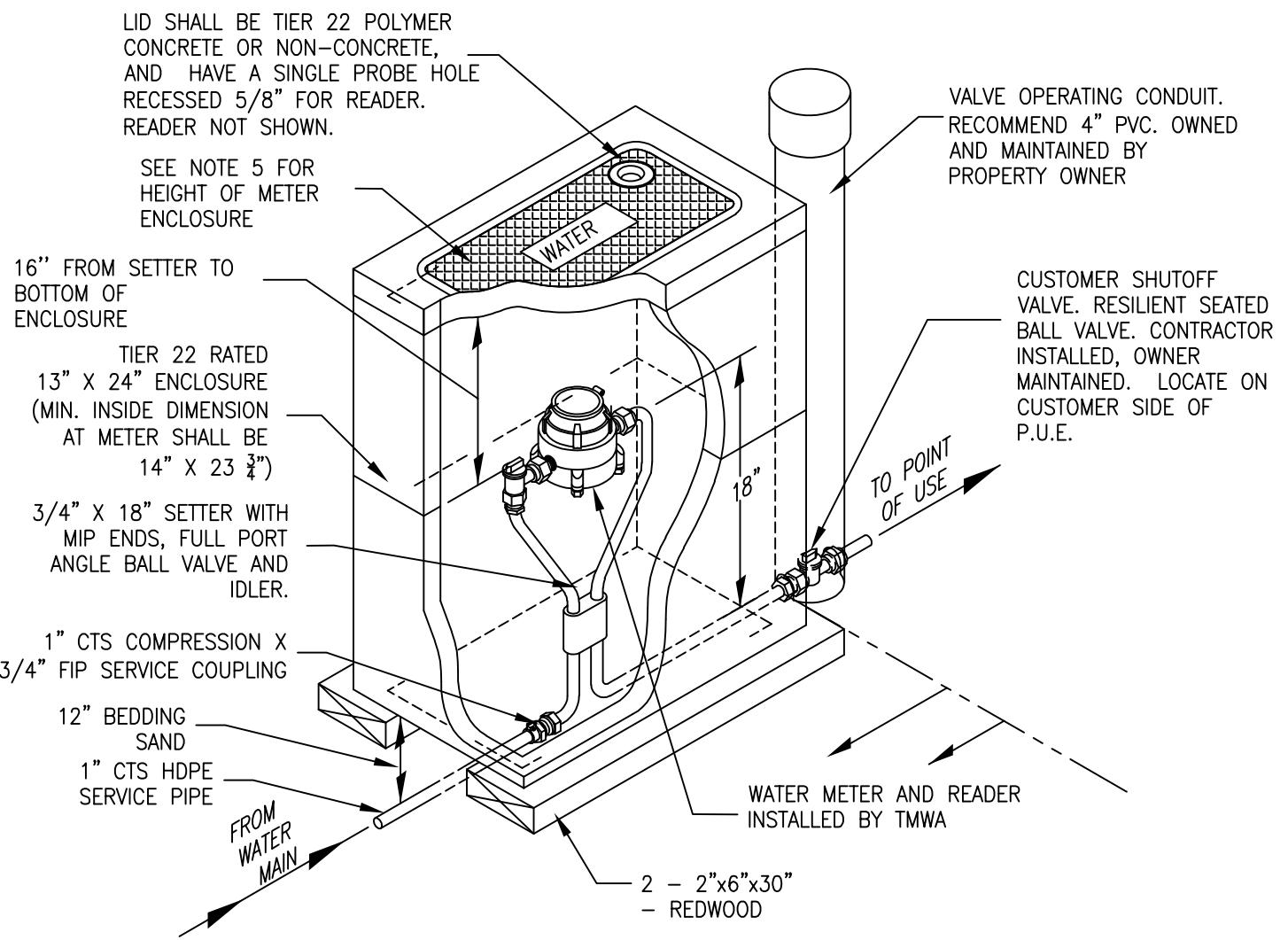
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DATE
6/2004
REV
5/2024

APPENDIX 10K
WATER METERS - SMALL
NEW RESIDENTIAL INSTALLATION
1" DUAL SERVICE LINE
FOR 3/4" SETTER ANGLE CHECK,
METER AND READER

DRAWING NUMBER
10K-6



NOTES:

1. COVER SHALL BE HUBBELL, JENSEN PRECAST, OLDCASTLE, OR CHANNELL AND HAVE: ANSI/SCTE 77 TIER 22 RATING (SEE NOTE 4) AND PROBE HOLE RECESSED 5/8" TO ALLOW FOR FLUSH MOUNT OF READER
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DATE

6/2004

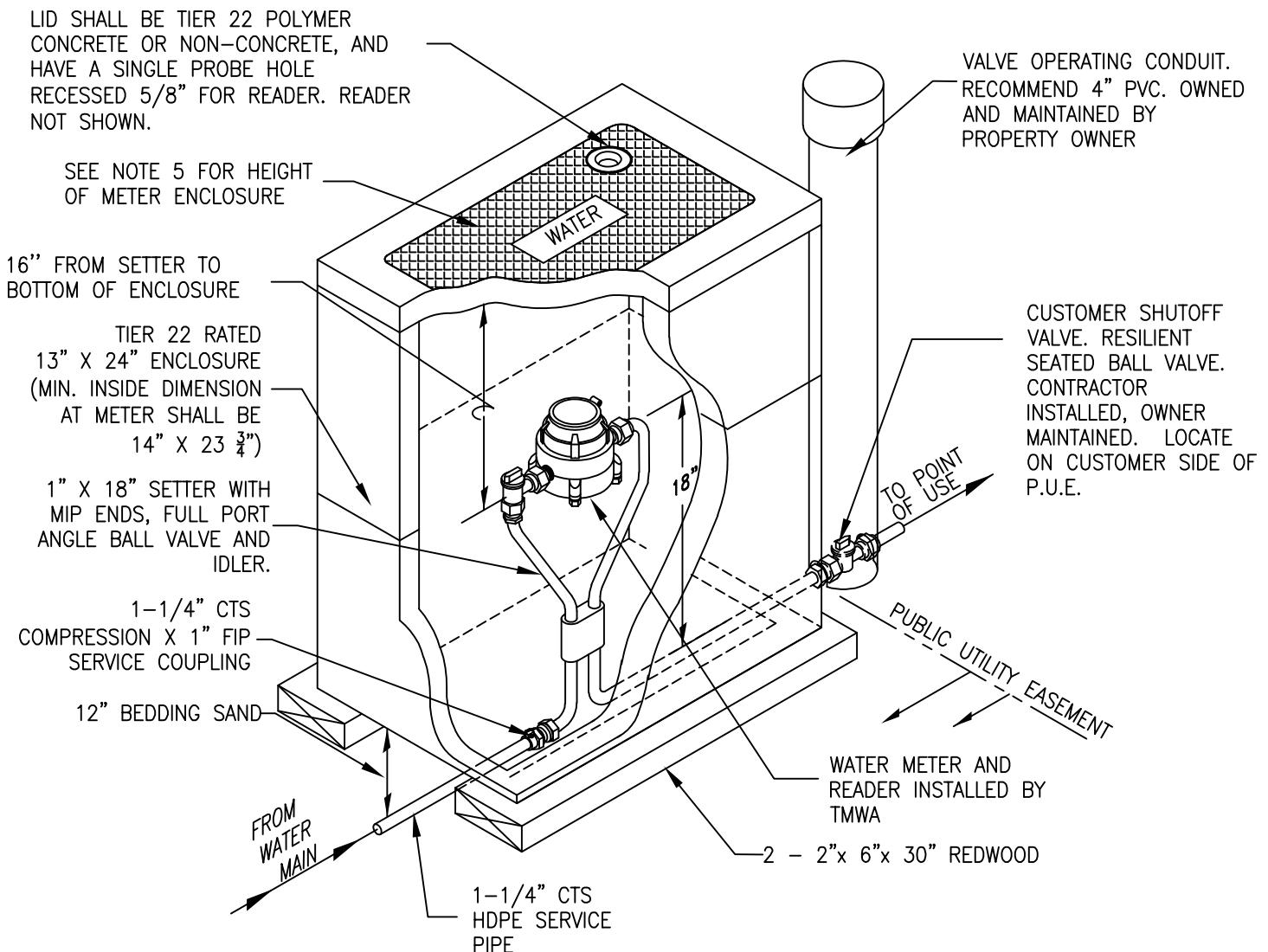
REV

5/2024

APPENDIX 10K
WATER METERS - SMALL
NEW COMMERCIAL INSTALLATION
1" SINGLE SERVICE LINE
FOR 3/4" SETTER, METER
AND READER

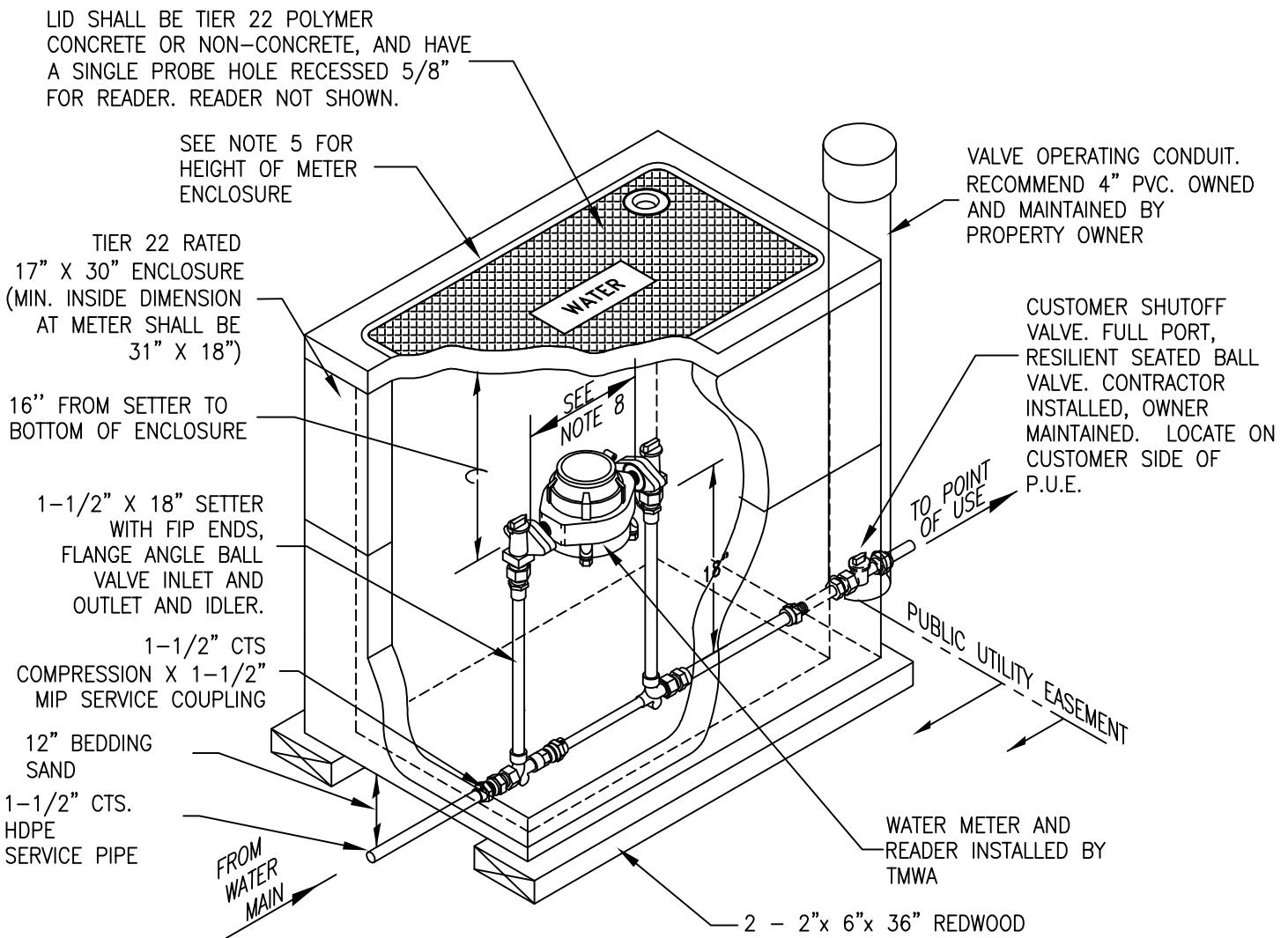
DRAWING NUMBER

10K-7



NOTES:

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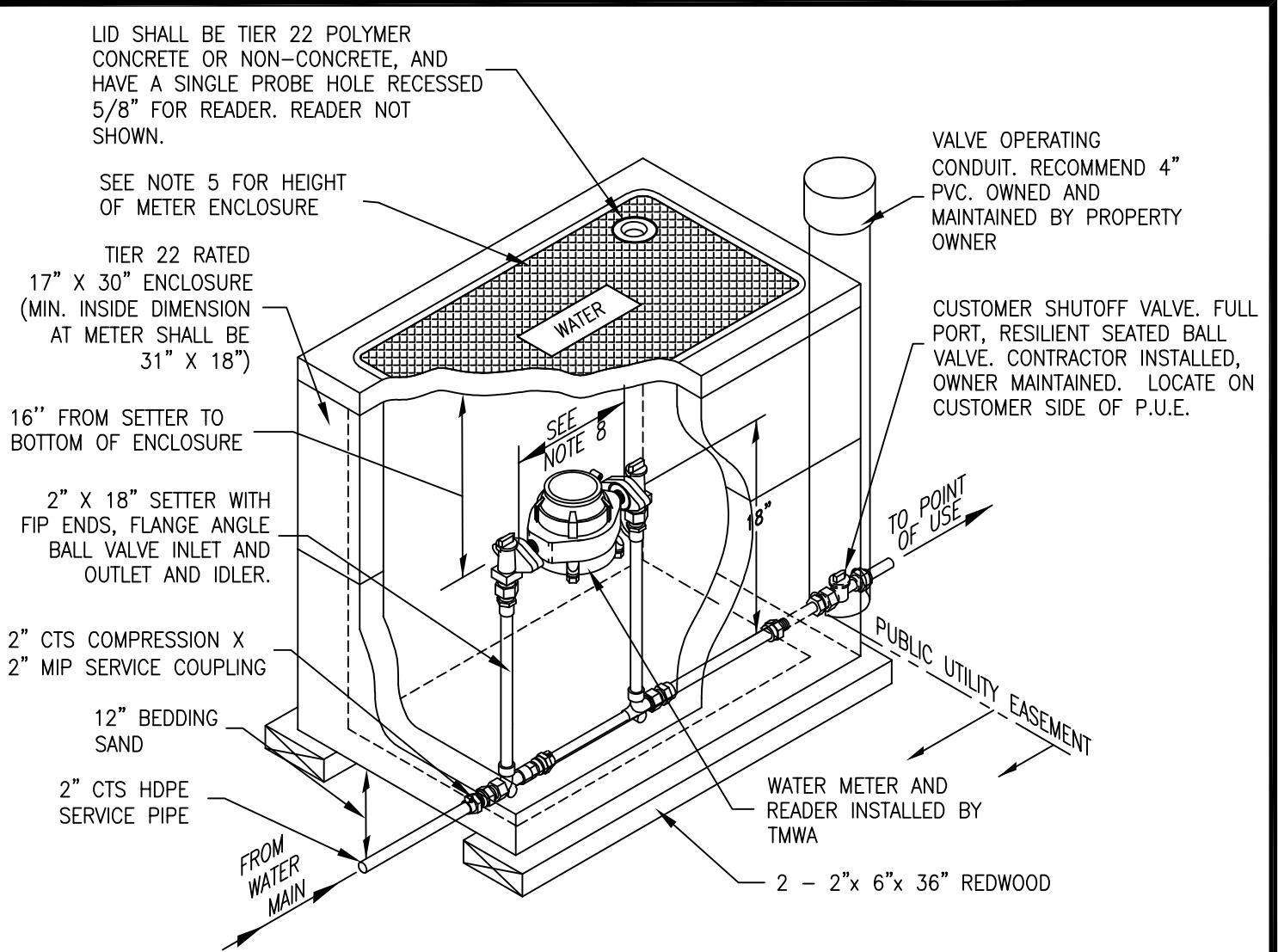


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DATE	APPENDIX 10K	DRAWING NUMBER
6/2004	WATER METERS - SMALL	
REV	NEW COMMERCIAL INSTALLATION	
5/2024	1-1/2" SINGLE SERVICE LINE FOR 1-1/2" SETTER, METER AND READER	10K-9

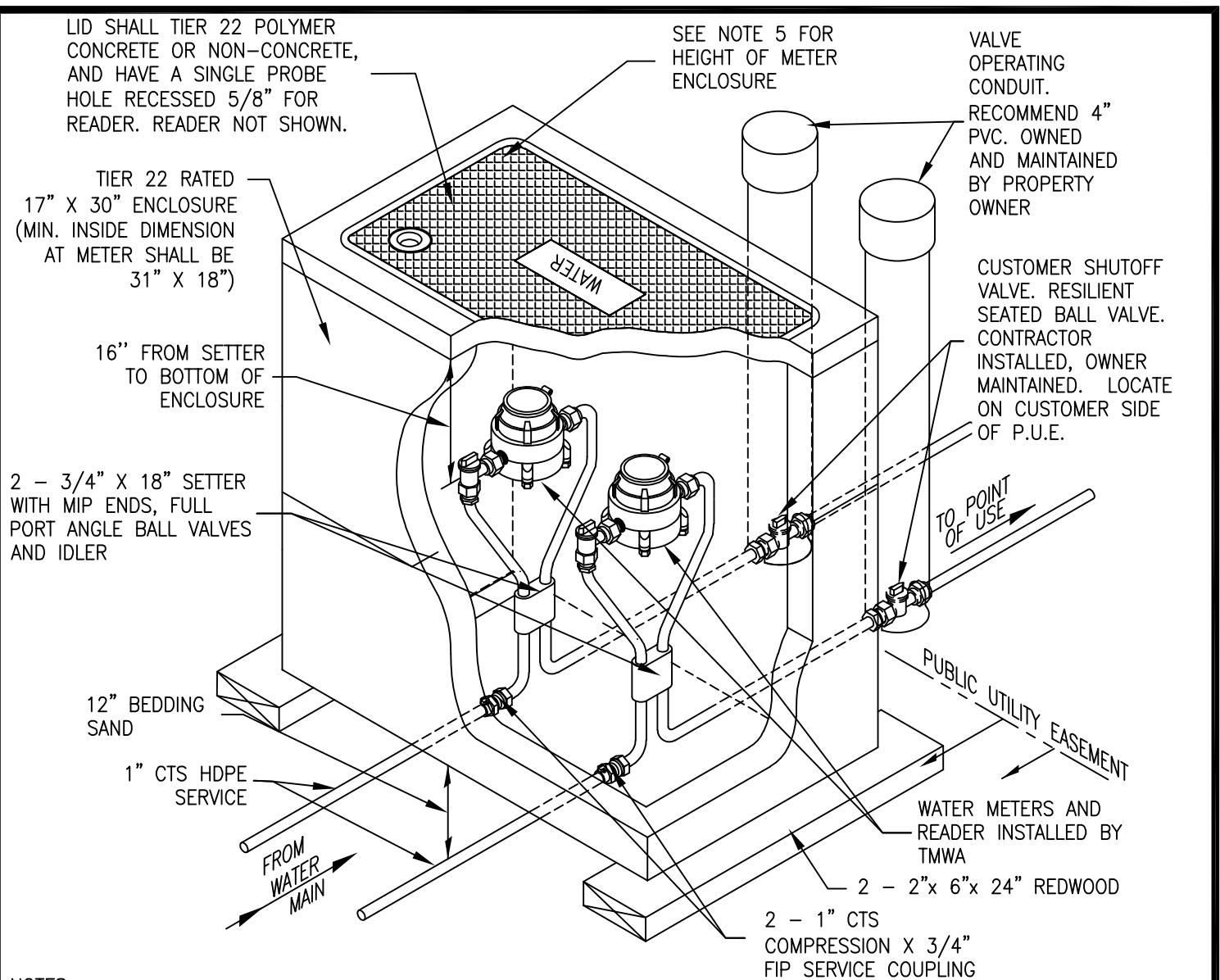


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DATE	APPENDIX 10K	DRAWING NUMBER
6/2004	WATER METERS - SMALL NEW COMMERCIAL INSTALLATION 2" SINGLE SERVICE LINE FOR 2" SETTER, METER AND READER	10K-10
REV		
5/2024		

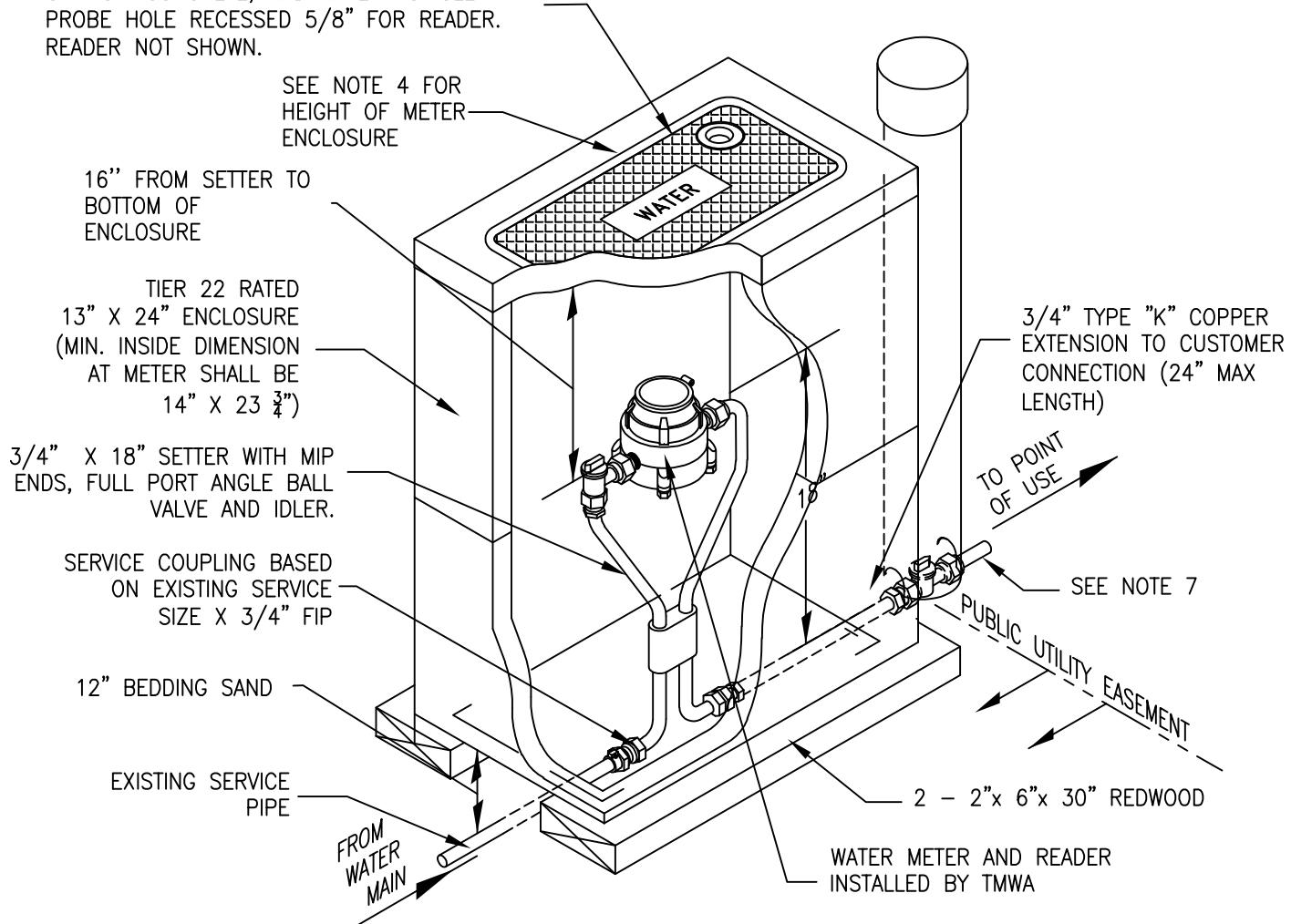


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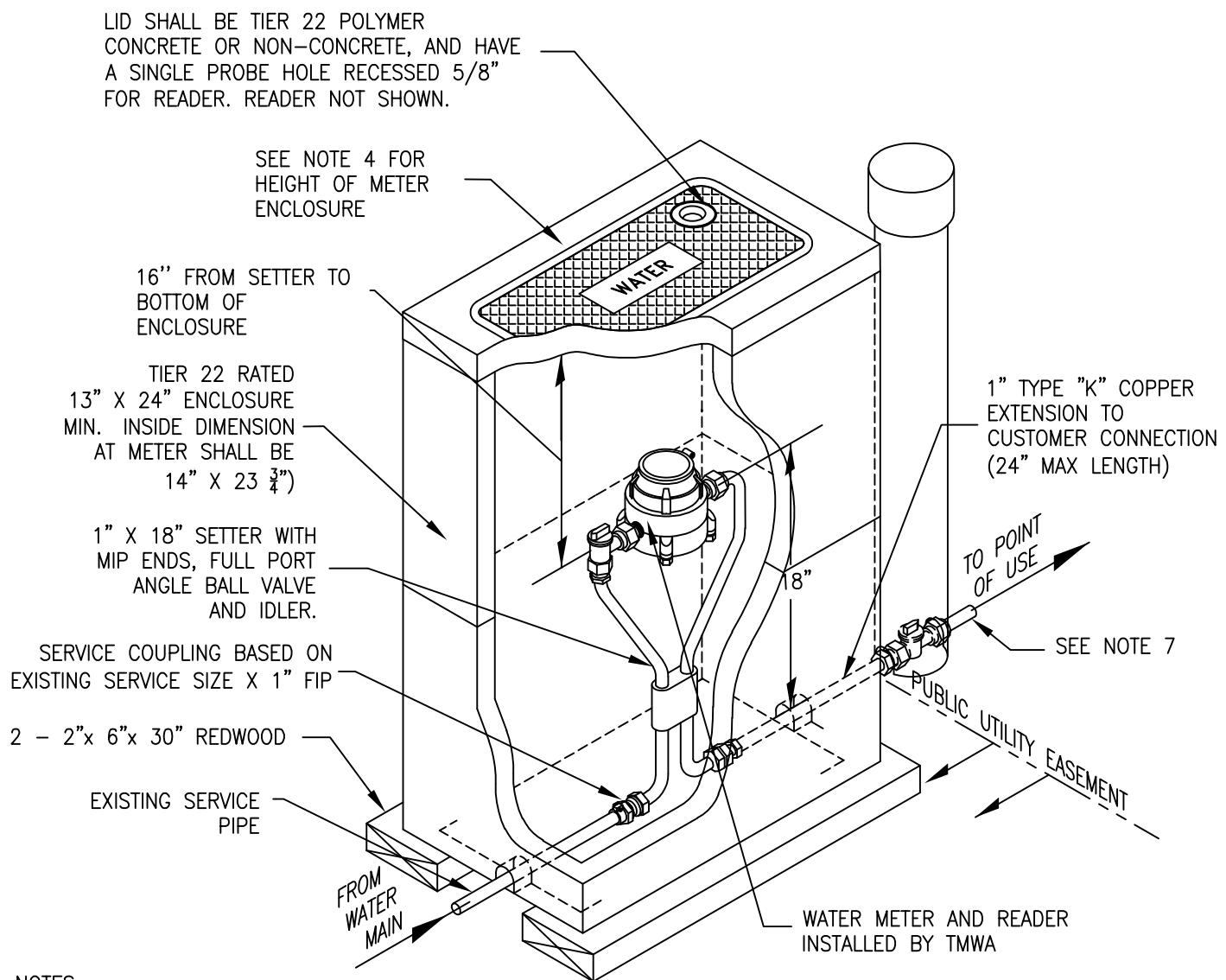
DATE	APPENDIX 10K WATER METERS - SMALL NEW COMMERCIAL INSTALLATION 1" DUAL SERVICE LINE FOR 3/4" SETTER, METER AND READER	DRAWING NUMBER
6/2004		
REV		
5/2024		
		10K-11

LID SHALL BE TIER 22 POLYMER CONCRETE OR NON-CONCRETE, AND HAVE A SINGLE PROBE HOLE RECESSED 5/8" FOR READER. READER NOT SHOWN.



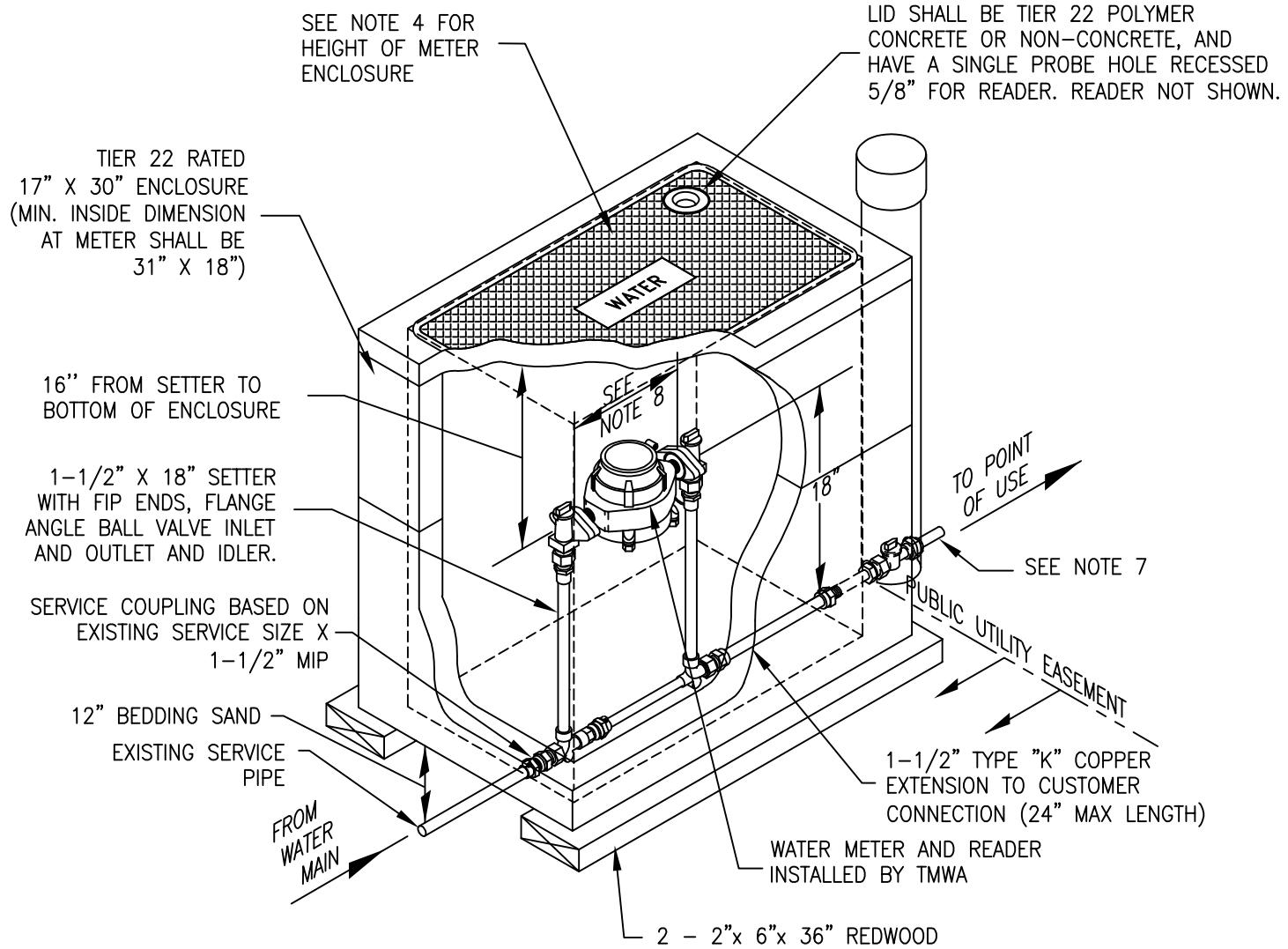
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1. COVER SHALL BE HUBBELL, JENSEN PRECAST, OLDCASTLE, OR CHANNEL AND HAVE: ANSI/SCTE 77 TIER 22 RATING (SEE NOTE 3) AND PROBE HOLE RECESSED 5/8" TO ALLOW FOR FLUSH MOUNT OF READER
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3. FOR NON-DELIBERATE TRAFFIC AREAS USE 13" X 24" ANSI/SCTE 77 TIER 22 BOX AND COVER. FOR DELIBERATE TRAFFIC AREAS USE 13" X 24" ENCLOSURE APPROVED FOR TRAFFIC RATED H/20 LOADING AND REMOTE READER ENCLOSURE. SEE DETAIL 10K-17 AND 10K-19.
4. TOP OF METER ENCLOSURE SHALL BE SET 0.2 FEET ABOVE HIGHEST FINISHED GRADE SURROUNDING ENCLOSURE WITHIN LANDSCAPED AREAS, AND SHALL BE SET FLUSH WITH SURROUNDING FINISH GRADE IN PAVED AREAS. ENCLOSURE MAY BE ONE PIECE 24" IN HEIGHT OR BE 12" ENCLOSURE WITH A 12" RISER.
5. ENCLOSURE TO BE BACKFILLED WITH WATER PIPE BEDDING SAND ONLY, SEE SECTION 5, TRENCH BEDDING & BACKFILL.
6. 4' X 4' INSULATING BLANKET TO BE INSTALLED ABOVE METER AND BELOW READER.
7. IF SERVICE LINE IS IRON PIPE, GALVANIZED OR BARE STEEL, INSTALL A DIELECTRIC UNION ON THE SETTER. USE A MALE ADAPTER TO CONNECT THE SERVICE LINE. COAT THE ADAPTER AND ONE FOOT OF SERVICE LINE WITH MASTIC.
8. UPON AUTHORITY APPROVAL 18" SETTER MAY BE REPLACED WITH TALLER SETTERS.
9. CONTRACTOR TO INSTALL IDLER WITH ALL SETTERS.
10. CONTRACTOR TO INSTALL SOLID PLUG IN PROBE HOLE OF LID.
11. ALL COMPONENTS IN CONTACT WITH WATER SHALL BE NSF-61 CERTIFIED.



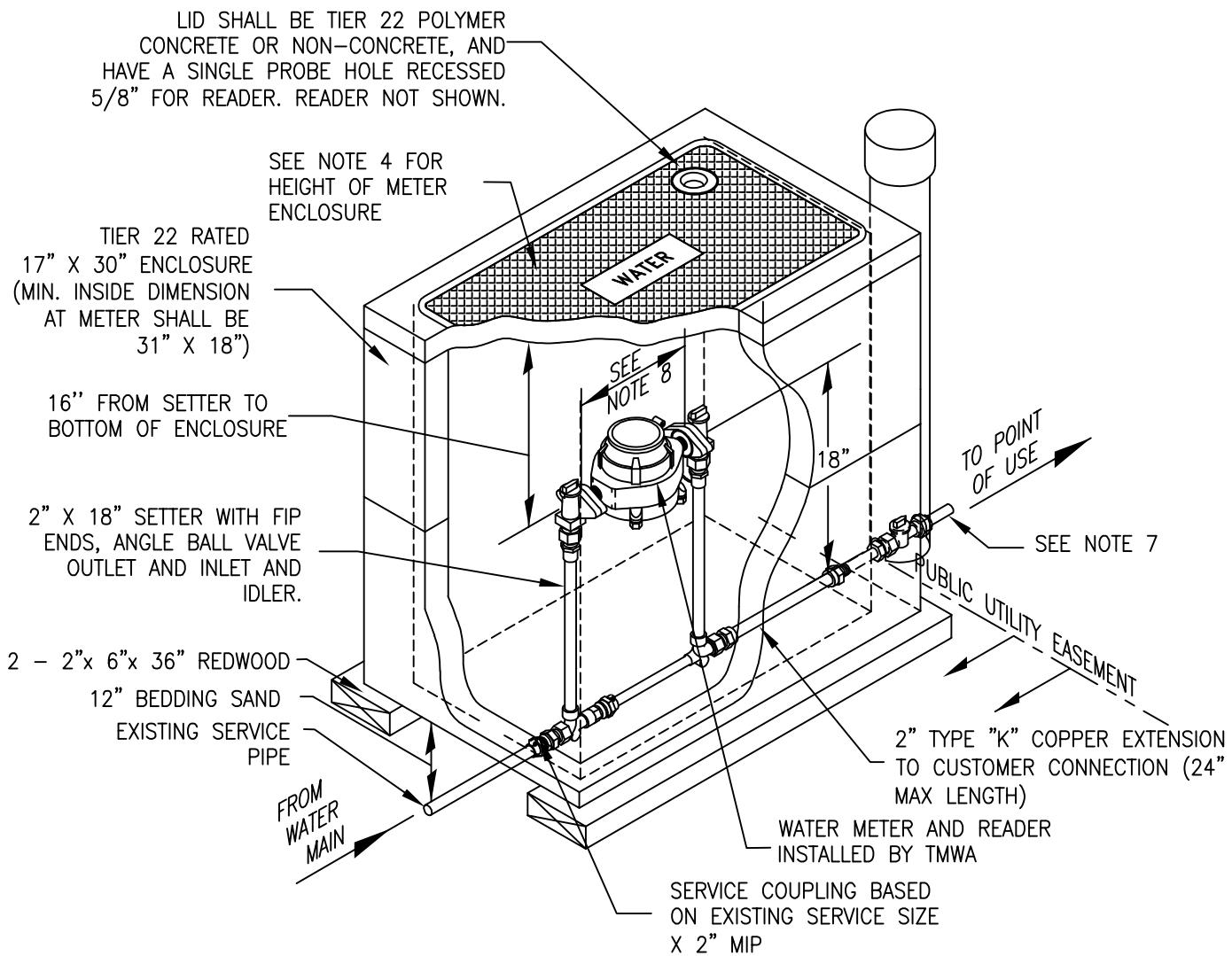
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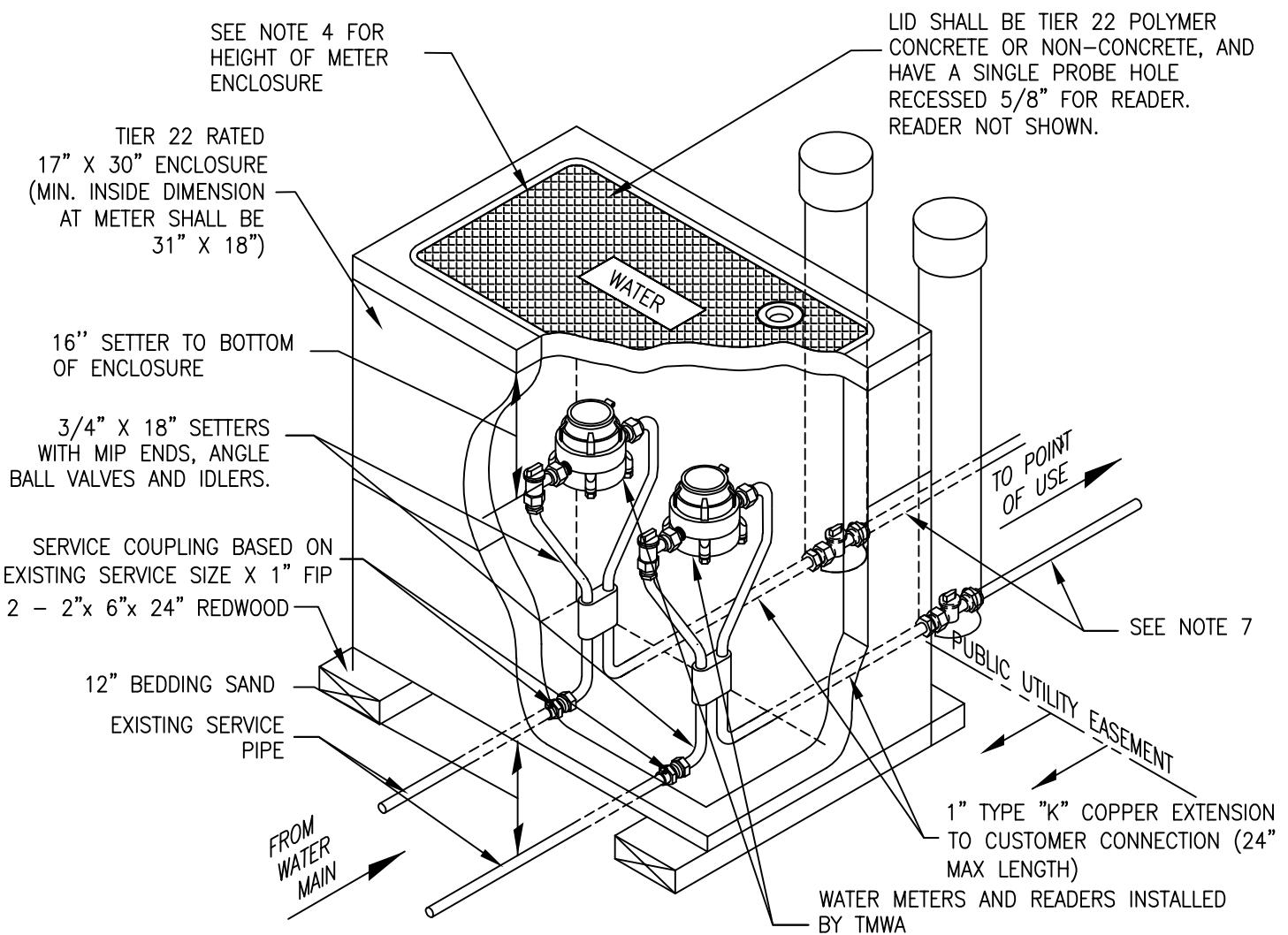
NOTES:

1. COVER SHALL BE HUBBELL, JENSEN PRECAST, OLDCASTLE, OR CHANNELL AND HAVE: ANSI/SCTE 77 TIER 22 RATING (SEE NOTE 3); WEIGHT OF LESS THAN 50 POUNDS (UNLESS APPROVED BY THE AUTHORITY); AND PROBE HOLE RECESSED 5/8" TO ALLOW FOR FLUSH MOUNT OF READER
2. METER AND READER SUPPLIED AND INSTALLED BY TMWA.
3. FOR NON-DELIBERATE TRAFFIC AREAS USE 17" X 30" ANSI/SCTE 77 TIER 22 BOX AND COVER. FOR DELIBERATE TRAFFIC AREAS USE 17" X 30" ENCLOSURE APPROVED FOR TRAFFIC RATED H/20 LOADING AND REMOTE READER ENCLOSURE. SEE DETAIL 10K-18 AND 10K-19.
4. TOP OF METER ENCLOSURE SHALL BE SET 0.2 FEET ABOVE HIGHEST FINISHED GRADE SURROUNDING ENCLOSURE WITHIN LANDSCAPED AREAS, AND SHALL BE SET FLUSH WITH SURROUNDING FINISH GRADE IN PAVED AREAS. ENCLOSURE MAY BE ONE PIECE 24" IN HEIGHT OR BE 12" ENCLOSURE WITH A 12" RISER.
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7. IF SERVICE LINE IS IRON PIPE, GALVANIZED OR BARE STEEL, INSTALL A DIELECTRIC UNION ON THE SETTER. USE A MAKE ADAPTER TO CONNECT THE SERVICE LINE. COAT THE ADAPTER AND ONE FOOT OF SERVICE LINE WITH MASTIC.
8. DISTANCE BETWEEN FLANGES SHALL BE 13.25".
9. UPON AUTHORITY APPROVAL 18" SETTER MAY BE REPLACED WITH TALLER SETTERS.
10. CONTRACTOR TO INSTALL IDLER WITH ALL SETTERS.
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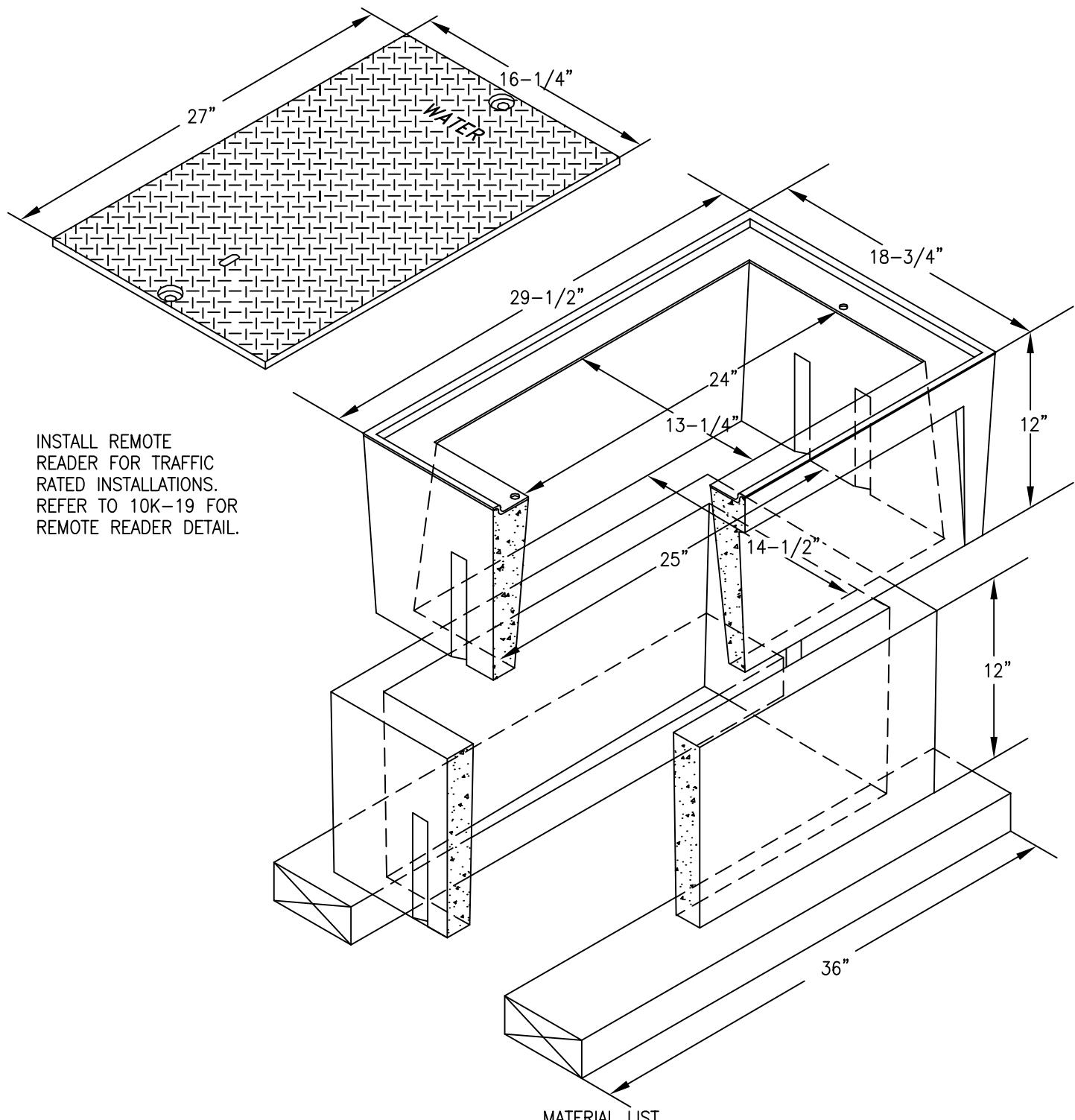
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7. IF SERVICE LINE IS IRON PIPE, GALVANIZED OR BARE STEEL, INSTALL A DIELECTRIC UNION ON THE SETTER. USE A MALE ADAPTER TO CONNECT THE SERVICE LINE. COAT THE ADAPTER AND ONE FOOT OF SERVICE LINE WITH MASTIC.
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9. UPON AUTHORITY APPROVAL 18" SETTER MAY BE REPLACED WITH TALLER SETTERS.
10. CONTRACTOR TO INSTALL IDLER WITH ALL SETTERS.
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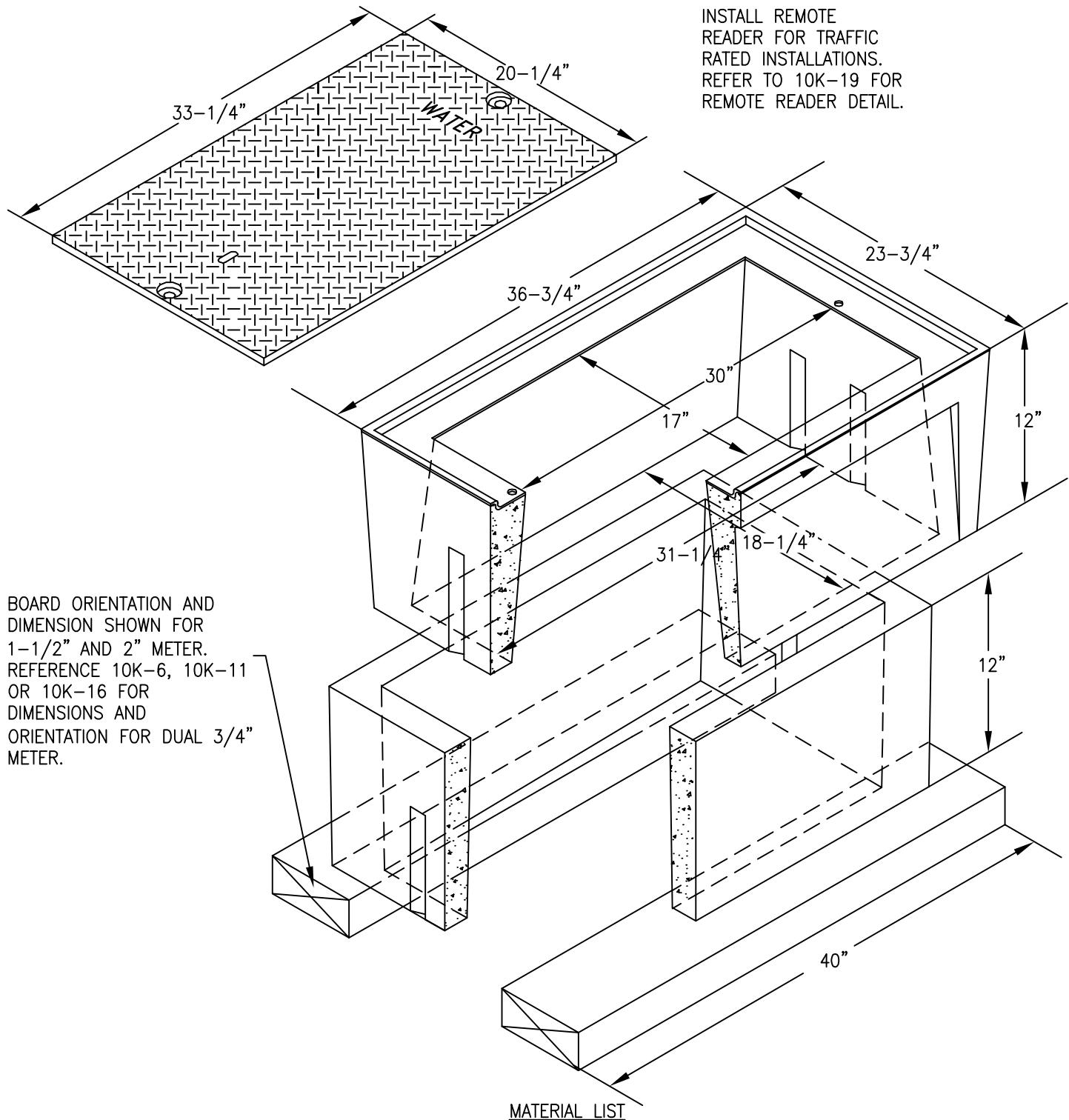
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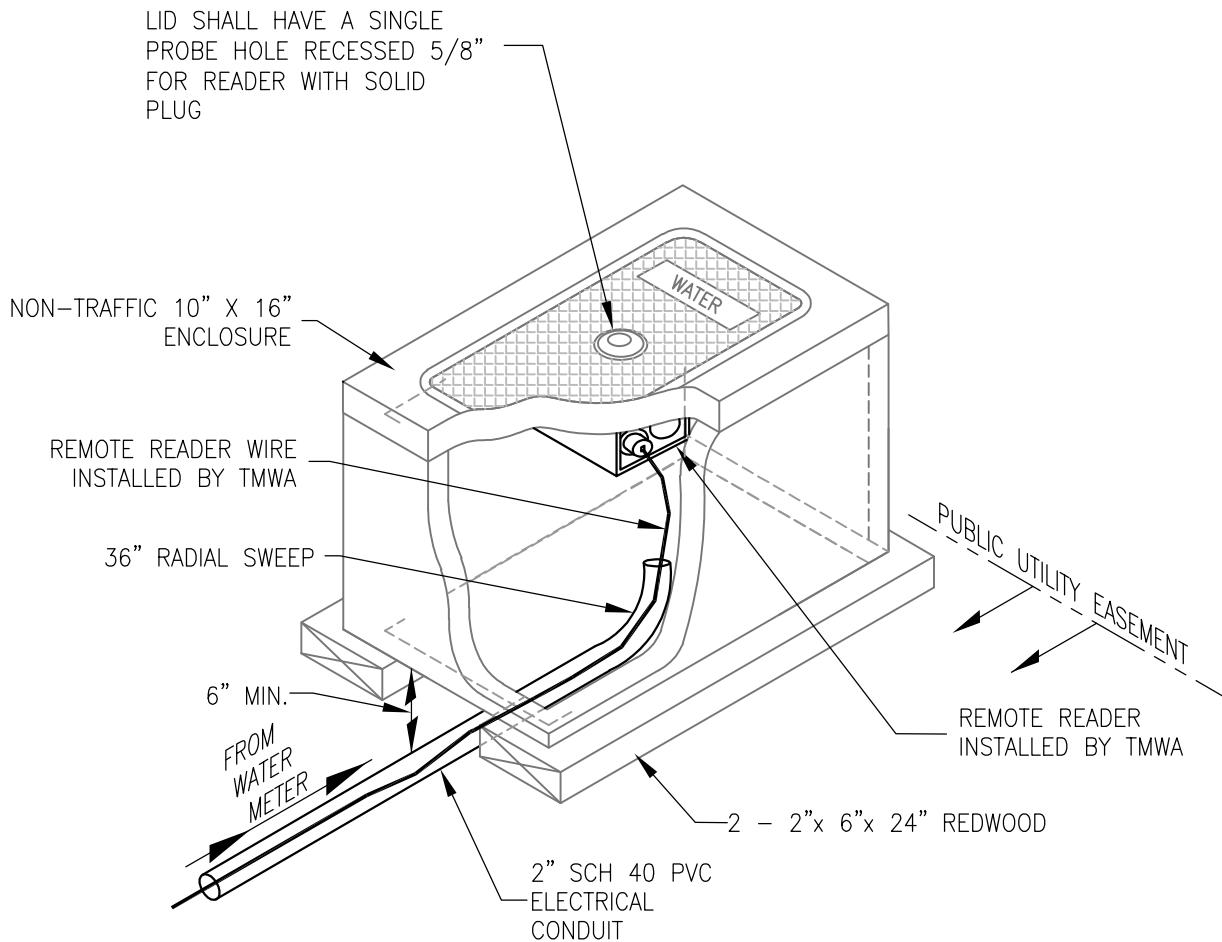


QTY. DESCRIPTION

- 1.0 ENCLOSURE 13X24 TRAFFIC H/20 RATED
- 1.0 COVER 13X24 TRAFFIC H/20 RATED - MARKED "WATER"
- 1.0 EXTENSION BOX13X24 TRAFFIC H/20 RATED
- 2.0 BOARD - REDWOOD 2" X 6" X 36"

MATERIAL LIST





NOTES:

1. COVER SHALL HAVE:
ANSI/SCTE 77 TIER 8 RATING AND
PROBE HOLE RECESSED 5/8" TO ALLOW FOR FLUSH MOUNT OF READER
2. SEE 10K-17 OR 10K-18 FOR TRAFFIC RATED BOX AND LID INSTALLATION.
3. REMOTE READER AND WIRE SUPPLIED AND INSTALLED BY TMWA.
4. ENCLOSURE SHALL BE LOCATED BEHIND CURB/SIDEWALK IN A LANDSCAPED AREA OR GREATER THAN 3-FEET AWAY FROM DRIVEWAY OR TRAFFIC AREA.
5. TOP OF METER ENCLOSURE SHALL BE SET 0.2 FEET ABOVE HIGHEST FINISHED GRADE SURROUNDING ENCLOSURE WITHIN LANDSCAPED AREAS, AND SHALL BE SET FLUSH WITH SURROUNDING FINISH GRADE IN PAVED AREAS.
6. ENCLOSURE TO BE BACKFILLED WITH WATER PIPE BEDDING SAND ONLY, SEE SECTION 5, TRENCH BEDDING & BACKFILL.
7. CONTRACTOR TO INSTALL 2" ELECTRICAL CONDUIT FROM METER ENCLOSURE TO REMOTE READER ENCLOSURE.
8. A TAPERED POLYETHYLENE PLUG WITH ATTACHMENT EYE SHALL BE USED TO TEMPORARILY PLUG CONDUIT ENDS. IF CONDUIT IS LONGER THAN 15' IN LENGTH, A PULL STRING SHALL BE INSTALLED WITHIN CONDUIT.