1. UNLESS OTHERWISE INDICATED ON THE PROJECT PLANS, TYPE I MANHOLE SHALL BE CONSTRUCTED.

2. CONCRETE SHALL BE CLASS 560-C-3250 PER SECTION 201 OF THE STANDARD SPECIFICATIONS.

3. DIMENSIONS
   - H = 4'-0". (SUBJECT TO THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY INCREASE "H" PROVIDED THE MINIMUM REQUIREMENTS OF "M" AND "P" ARE MET.)
   - L = 4'-0". (SUBJECT TO THE APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY INCREASE "L" OR CHANGE THE LOCATION OF THE STATION POINT IN ORDER TO MEET PIPE ENDS OR OTHER FIELD CONDITION.)
   - P = AS INDICATED HEREIN. (SUBJECT TO THE APPROVAL OF THE ENGINEER, "P" MAY BE INCREASED TO NOT LESS THAN 6-INCHES WHEN A LARGER VALUE OF "P" WOULD CAUSE "M" TO BE LESS THAN 3'-0".)
   - R = 3'-0"
   - T = 8" FOR H ≤ 8’-0"; T = 10" WHEN H > 8’-0"
   - N = SEE PROJECT PLANS
   - A = SEE PROJECT PLANS

4. REINFORCEMENT SHALL CONFORM TO SECTION 201 OF THE STANDARD SPECIFICATIONS AND AS SHOWN HEREIN.

5. A STEEL TROWEL SURFACE SHALL BE PROVIDED FOR THE CONCRETE FLOOR OF THE STRUCTURE AND TO THE INSIDE CONCRETE WALLS FROM THE INVERT TO THE SPRING LINE.

6. CONCRETE FOR THE STRUCTURE SHALL BE PLACED IN ONE CONTINUOUS OPERATION, EXCEPT THAT THE CONTRACTOR MAY, AT HIS OPTION, PLACE AT THE SPRING LINE A CONSTRUCTION JOINT WITH A 2-INCH BY 4-INCH HORIZONTAL KEYWAY.

7. WHERE LATERALS ENTER ON BOTH SIDES OF THE STRUCTURE, THEY SHALL BE DESIGNATED ON THE PROJECT PLANS AS RIGHT OR LEFT, FACING IN THE DIRECTION OF STATIONING.


9. INSTALL STEPS CONFORMING TO STANDARD PLAN S-34B.

10. RINGS, REDUCER, PIPE AND PIPE SEAL FOR MANHOLE SHAFT SHALL CONFORM TO STANDARD PLAN S-587.

11. INSTALL MANHOLE FRAME AND COVER CONFORMING TO STANDARD PLAN S-281.

12. PLACE PIPES AS INDICATED ON THE PROJECT PLANS. UNLESS OTHERWISE DETAILED ON THE PROJECT PLANS, THE PIPE CENTERLINE SHALL INTERSECT THE MIDPOINT OF THE INSIDE FACE OF THE INDICATED MANHOLE WALL. THE PIPE MAY BE CUT AND TRIMMED AT A SLOPE NECESSARY TO INSURE MINIMUM 3 INCH PIPE EMERGENCE, ALL AROUND, WITHIN THE MANHOLE WALL, AND 3 INCH RADIUS OF ROUNDING OF STRUCTURE CONCRETE, ALL AROUND, ADJACENT TO PIPE ENDS. A MONOLITHIC CONNECTION PER STANDARD PLAN S-551 SHALL BE USED TO JOIN THE PIPE TO THE MANHOLE WHICHEVER ANGLE "A" IS LESS THAN 70 DEGREES OR GREATER THAN 110 DEGREES. THE OPTIONAL USE OF A MONOLITHIC CONNECTION IN ANY CASE IS PERMITTED. MONOLITHIC CONNECTIONS MAY BE EXTENDED UP TO 4 FEET IN LENGTH TO AVOID CUTTING STANDARD LENGTHS OF PIPE.