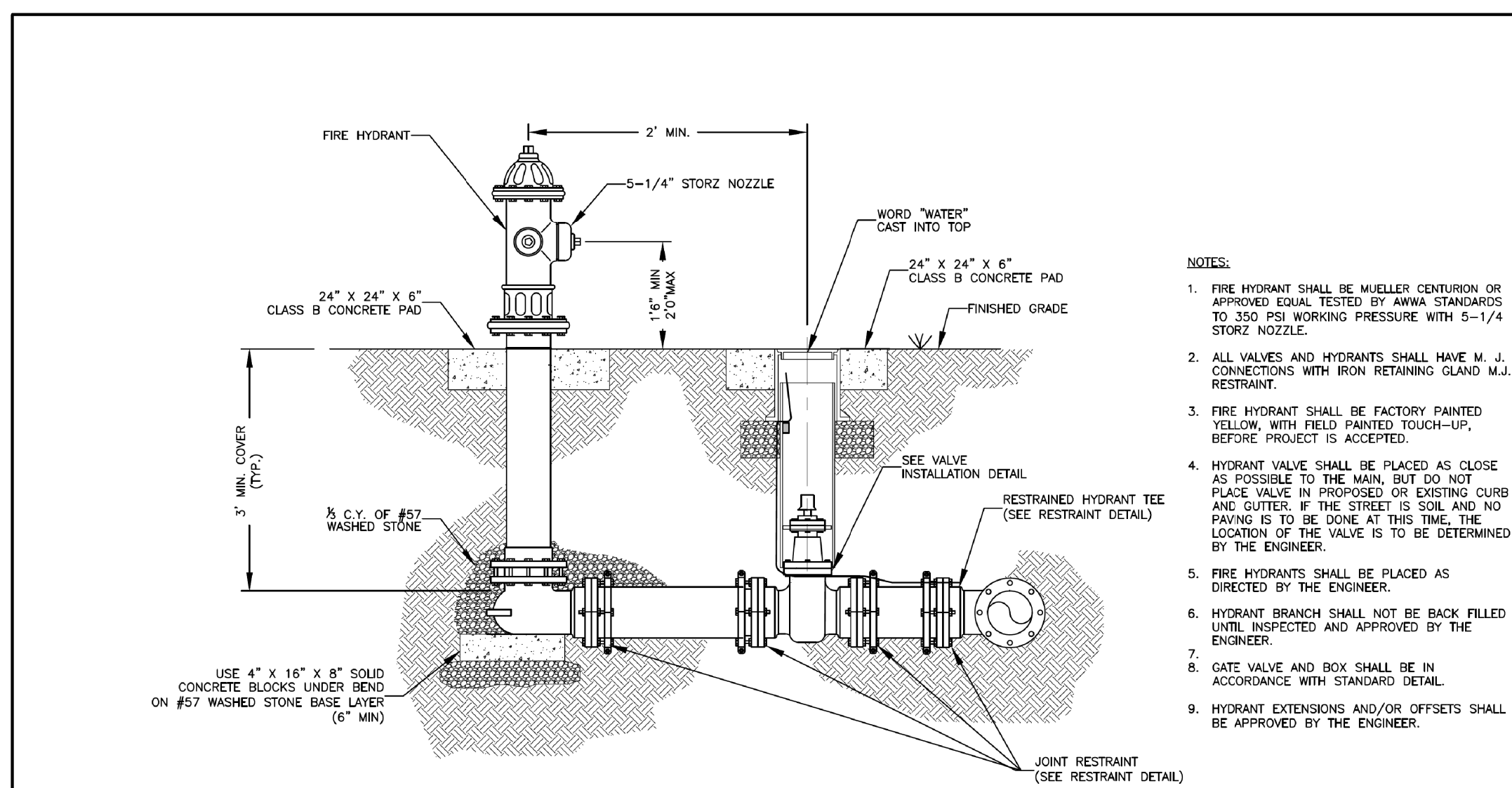


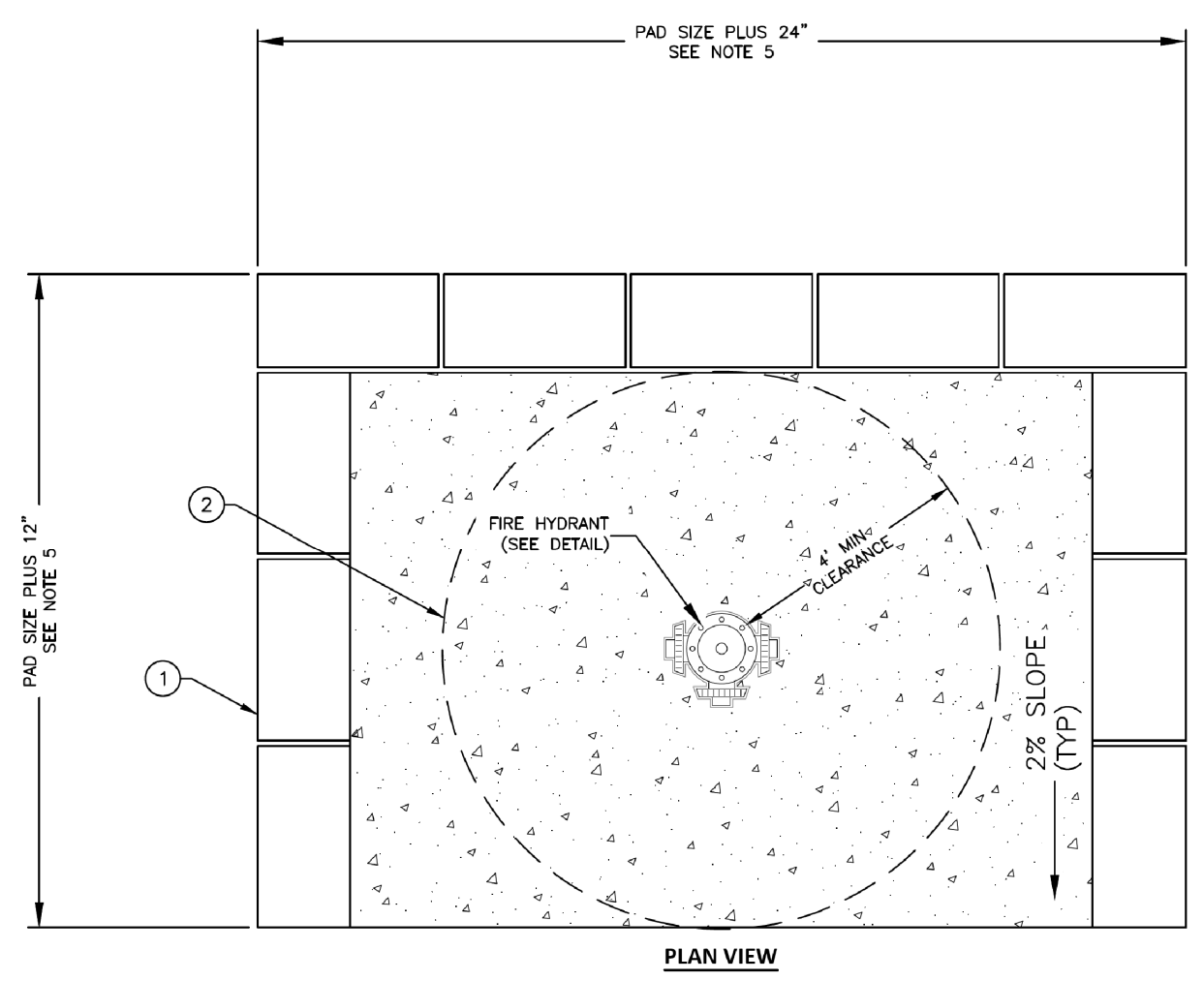
# OWNER TYPICAL DETAILS



**12 FIRE HYDRANT STANDARD INSTALLATION**  
 WD-4 NOT TO SCALE 04/04/18

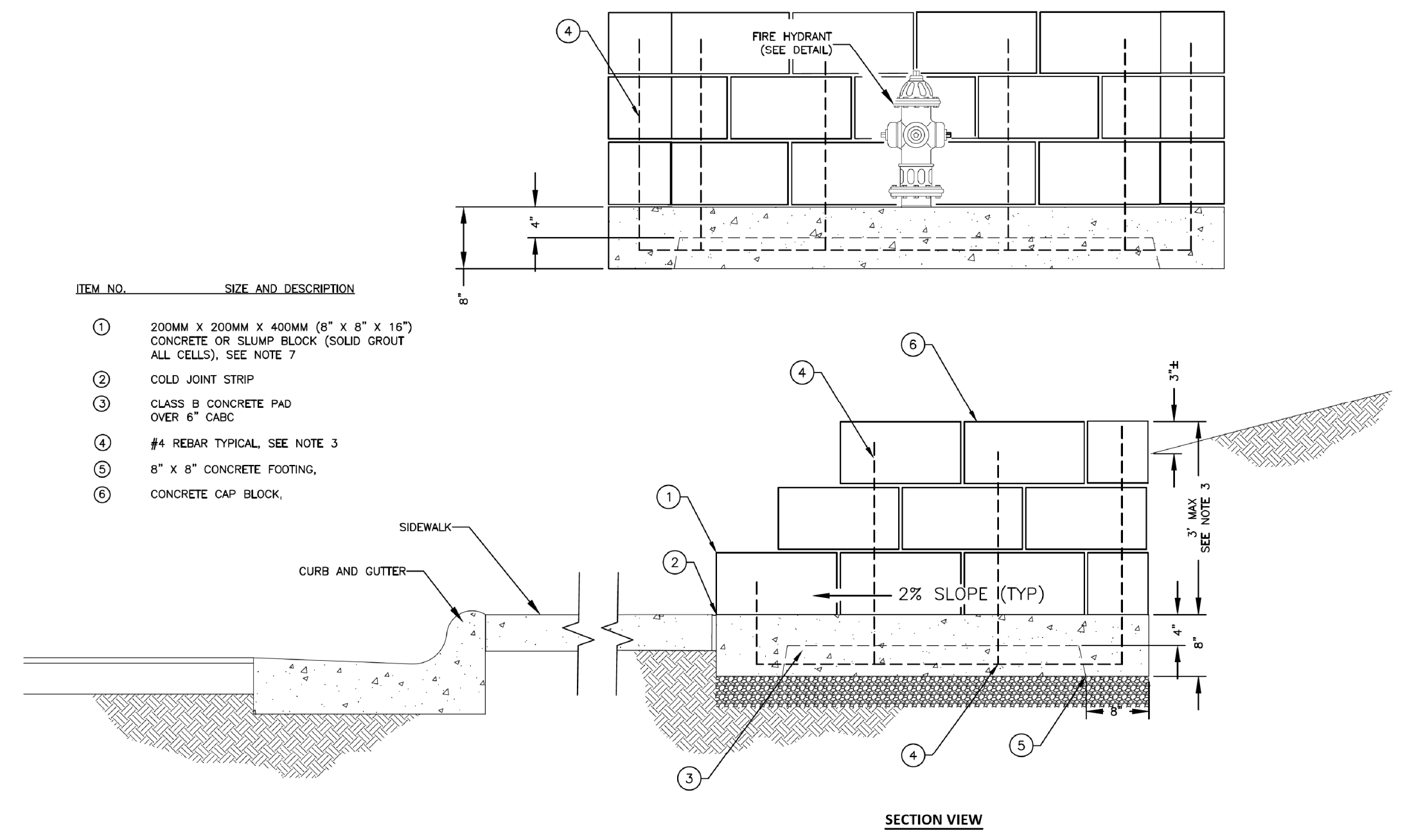
- NOTES:**
1. FIRE HYDRANT SHALL BE MUELLER CENTURION OR APPROVED EQUAL TESTED BY AWWA STANDARDS TO 350 PSI WORKING PRESSURE WITH 5-1/4 STORZ NOZZLE.
  2. ALL VALVES AND HYDRANTS SHALL HAVE M. J. CONNECTIONS WITH IRON RETAINING GLAND M.J. RESTRAINT.
  3. FIRE HYDRANT SHALL BE FACTORY PAINTED YELLOW, WITH FIELD PAINTED TOUCH-UP, BEFORE PROJECT IS ACCEPTED.
  4. HYDRANT VALVE SHALL BE PLACED AS CLOSE AS POSSIBLE TO THE MAIN, BUT DO NOT PLACE VALVE IN PROPOSED OR EXISTING CURB AND GUTTER. IF THE STREET IS SOIL AND NO PAVING IS TO BE DONE AT THIS TIME, THE LOCATION OF THE VALVE IS TO BE DETERMINED BY THE ENGINEER.
  5. FIRE HYDRANTS SHALL BE PLACED AS DIRECTED BY THE ENGINEER.
  6. HYDRANT BRANCH SHALL NOT BE BACK FILLED UNTIL INSPECTED AND APPROVED BY THE ENGINEER.
  7. GATE VALVE AND BOX SHALL BE IN ACCORDANCE WITH STANDARD DETAIL.
  8. HYDRANT EXTENSIONS AND/OR OFFSETS SHALL BE APPROVED BY THE ENGINEER.

- NOTES:**
1. RETAINING WALLS FOR USE IN CONJUNCTION WITH THE INSTALLATION OF FIRE HYDRANTS SHALL BE INSTALLED WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
  2. FIGURES SHOWN REPRESENT MINIMUMS ONLY. ALL RETAINING WALLS ABOVE 4' SHALL BE DESIGNED BY THE ENGINEER OF WORK AND PERMITTED BY THE AGENCY OF JURISDICTION.
  3. VERTICAL BARS TO BE INSTALLED AT 16" ON CENTER. INSTALL MINIMUM 1-BAR IN THE CENTER OF THE FOOTING FOR WALL.
  4. PAD SIZE TO MATCH SIZE OF PAD REQUIRED FOR FIRE HYDRANT TO BE INSTALLED.
  5. GRAVITY WALL MAY BE INSTALLED ONLY WITH PRIOR APPROVAL OF SUBMITTAL FOR INSTALLATION.
  6. AN EASEMENT MAY BE REQUIRED DEPENDING ON THE LOCATION OF THE WALL.



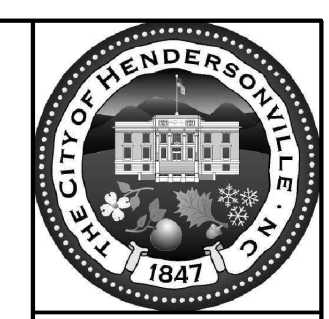
**13 FIRE HYDRANT DITCH INSTALLATION**  
 WD-4 NOT TO SCALE 04/04/18

- NOTES:**
1. SEE FIRE HYDRANT STANDARD INSTALLATION DETAIL FOR ADDITIONAL REQUIREMENTS.
  2. ALL VALVES AND HYDRANTS SHALL HAVE M. J. CONNECTIONS WITH IRON RETAINING GLAND M.J. RESTRAINT.
  3. FIRE HYDRANT OFFSET CONNECTOR SHALL BE PLACED AS APPROVED BY THE ENGINEER.
  4. OFFSET CONNECTOR SHALL NOT BE BACK FILLED UNTIL INSPECTED AND APPROVED BY ENGINEER.



**14 FIRE HYDRANT SLOPE INSTALLATION**  
 WD-4 NOT TO SCALE 04/04/18

- ITEM NO. SIZE AND DESCRIPTION**
1. 200MM X 200MM X 400MM (8" X 8" X 16") CONCRETE OR SLUMP BLOCK (SOLID GROUT ALL CELLS), SEE NOTE 7
  2. COLD JOINT STRIP
  3. CLASS B CONCRETE PAD OVER 6" CAB
  4. #4 REBAR TYPICAL SEE NOTE 3
  5. 8" X 8" CONCRETE FOOTING.
  6. CONCRETE CAP BLOCK.



**CITY OF HENDERSONVILLE, NC**  
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 www.hendersonville.org

**CITY OF HENDERSONVILLE STANDARD WATER DETAILS**  
 CITY OF HENDERSONVILLE  
 HENDERSON COUNTY, NORTH CAROLINA

NO.	DATE	BY	DESCRIPTION

DATE: MARCH 23, 2018  
 DRAWN BY: MJP  
 PROJECT NO.:

**WD-4**