

- 8.5 MINIMUM COVER: ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 5.5 FEET AND A MAXIMUM OF 10' (UNLESS APPROVED BY THE CITY ENGINEER) MEASURED FROM PROPOSED FINISHED GROUND LINE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THIS MINIMUM DEPTH OF COVER.
- 8.6 GATE VALVES: THE CONTRACTOR SHALL FURNISH AND INSTALL RESILIENT WEDGE GATE VALVES CONFORMING TO (AWWA C-515) AND SHALL BE MUELLER WATEROUS, CLOW OR APPROVED EQUAL VALVES TO BE INSTALLED IN A VALVE VAULT AS SHOWN ON THE PLANS. ALL NUTS AND BOLTS ON VALVE ARE TO BE STAINLESS STEEL. MEG-A-LUGS SHALL BE USED, INTERIOR OF VALVE SHALL BE COATED WITH A RESINOUS OR POLYMERIC COATING CONFORMING TO AWWA C-550. REFER TO THE CITY DETAIL STANDARD NO. 6.01 FOR DETAILED INFORMATION ON VALVES.
- 8.7 THRUST RESTRAINT: REINFORCED CONCRETE BLOCKS AND "MEGA-LUG" JOINT RESTRAINTS SHALL BE USED FOR THRUST RESTRAINT ON ALL FITTINGS. USE OF PRECAST THRUST BLOCKS SHALL BE LIMITED TO FIRE HYDRANT INSTALLATIONS (AS NOTED ON THE TYPICAL HYDRANT DETAIL DRAWING) AND FOR PIPE DIAMETERS SMALLER THAN 12-INCH. AS NOTED ON THE TYPICAL DETAIL DRAWINGS, REFER TO THE CITY DETAIL STANDARDS NO. 6.09 AND 6.10 FOR DETAILED INFORMATION ON THRUST BLOCKS AND RESTRAINED JOINTS.
- 8.8 POLYETHYLENE ENCASEMENT TUBING: THE CONTRACTOR SHALL FURNISH AND INSTALL POLYETHYLENE ENCASEMENT TUBING FOR ALL DUCTILE IRON PIPE. POLYETHYLENE ENCASEMENT TUBING SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH ANSI A21.5 (AWWA C-105), SHALL BE CLASS "C" POLYETHYLENE MATERIAL, AND SHALL BE INSTALLED EITHER BY "METHOD A" OR "METHOD B" AS LISTED IN ANSI A21.5. THE POLYETHYLENE ENCASEMENT TUBING SHALL BE BLUE IN COLOR UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SECURE THE TUBING ALONG THE LENGTH OF THE WATERMAIN AT EVERY 3FT ALONG THE PIPE BARREL AND AT JOINTS AS NOTED. NOTE THAT WHEN LIFTING THE POLYETHYLENE ENCASED PIPE WITH A BACKHOE, USE FABRIC TYPE "SLING" OR PADDED CABLE TO PROTECT THE POLYETHYLENE. CAREFUL ATTENTION SHALL BE TAKEN WHEN MOUNTING TABBING MACHINES TO PROTECT THE TUBING FOR SERVICE CONNECTIONS. FOLLOW THE RECOMMENDED GUIDELINES FOR SERVICE TAPS IN THE ANSI STANDARD.
- 8.9 SERVICE PIPE AND FITTINGS: WATER SERVICE PIPE INSTALLED FOR HOUSE SERVICES SHALL BE MINIMUM 1-INCH DIAMETER COPPER PIPE, TYPE "K" CONFORMING TO LATEST REQUIREMENTS OF THE ILLINOIS PLUMBING CODE. FITTINGS SHALL BE BRONZE AND OF THE COMPRESSION TYPE. COPPER PIPE SHALL BE ONE PIECE FROM THE TAP TO THE CURB BOX.
- 8.10 CORPORATION AND CURB STOPS: WATER SERVICE STOPS SHALL BE OF BRASS, AND OF THE TYPE THAT IS STANDARD WITH THE CITY DETAIL 6.02 ALL CORP AND CURB STOPS SHALL BE STAMPED WITH "NL".
- 8.11 TAPPING VALVE AND SLEEVE: TAPPING VALVES AND SLEEVES SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE SIZE SHOWN ON THE PLANS. TAPPING VALVES SHALL CONFORM TO AWWA SPECIFICATION C-515, RESILIENT WEDGE GATE VALVES. TAPPING VALVES AND SLEEVES SHALL BE INSTALLED IN PRECAST CONCRETE VAULTS OF THE SIZE AND TYPE SHOWN ON THE PLAN. ALL TAPPING TEES SHALL BE STAINLESS STEEL. REFER TO THE CITY DETAIL STANDARD NO. 6.07 FOR DETAILED INFORMATION ON PRESSURE CONNECTIONS.
- 8.12 SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL WATERMAIN AND APPURTENANCES TO BE PROVIDED AND APPROVED BY THE CITY ENGINEER OR THEIR REPRESENTATIVE PRIOR TO DELIVERY OF MATERIALS TO THE CONSTRUCTION SITE. SUBMITTALS WILL INCLUDE CATALOGUE DATA, WEIGHTS, ASSEMBLY DRAWINGS, COATINGS INFORMATION, AFFIDAVITS OF COMPLIANCE, AND RECORDS OF THE TESTING REQUIREMENTS AS SET FORTH IN THE APPLICABLE AWWA STANDARD FOR THE MATERIAL BEING PROVIDED.
- 8.13 LEAKAGE TESTING AND DISINFECTING: ALL WATER MAINS SHALL BE TESTED FOR LEAKAGE UNDER PRESSURE AND BE DISINFECTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND TO THE SATISFACTION OF THE CITY OF BATAVIA WATER DEPARTMENT. A CITY REPRESENTATIVE SHALL BE PRESENT DURING TESTING.

## 9. RESTORATION AND LANDSCAPING

- 9.1 ALL EXCAVATED MATERIALS FOR CURBS OR WALKS IS TO BE REMOVED FROM SITE. THIS SPOIL MAY NOT TO BE USED AS BACKFILL.
- 9.2 CUT EDGE OF EXCAVATION AWAY TO ALLOW FOR PROPER COMPACTION.

- 9.3 BACKFILL ALL OVER-DUG OR EXCAVATED AREAS WITH PULVERIZED TOPSOIL, EITHER MANUALLY OR MECHANICALLY. (SOURCE TO BE APPROVED BY CITY ENGINEER OR ENGINEER'S REPRESENTATIVE)
- 9.4 COMPACT PULVERIZED TOPSOIL IN 4" TO 6" LIFTS TO MINIMIZE SETTLEMENT UNLESS OTHERWISE NOTED BY THE ENGINEER.
- 9.5 MANUALLY FEATHER PULVERIZED TOPSOIL INTO EXISTING GRADES OR NO GREATER THAN 4:1, APPROXIMATELY 2' TO 4' FEET IN FRONT OF AND BEHIND NEW CURBS, WALKS OR BOTH SIDE OF EXCAVATION FOR PUBLIC IMPROVEMENTS OR AS DIRECTED BY CITY ENGINEER OR THEIR DESIGNEE IN ORDER TO CREATE A SMOOTH, CONSISTENT AND MAINTAINABLE SURFACE. (NOTE: ON LARGER PROJECTS THIS MAY BE DONE MECHANICALLY. IN ALL CASES WHERE WORK IS ADJACENT TO EXISTING TURF, FINISH WORK MUST BE MANUALLY RAKED.)
- 9.6 SEED BLENDS (PLEASE PROVIDE TAG FROM BAG TO CITY REPRESENTATIVE):  
 A) LOW SALT IMPACT AREAS:  
 50% EQUAL QUANTITIES OF 2 VARIETIES OF IMPROVED KENTUCKY BLUE GRASS (98/85)  
 50% EQUAL QUANTITIES OF 2 VARIETIES OF TURF TYPE PERENNIAL RYE GRASS (98/90)  
 B) HIGH SALT IMPACT AREAS (I.E. RIGHT OF WAY / PARKWAY):  
 USE CLASS 1A SALT TOLERANT "I.D.O.T." BLEND WITH 1/2 RATE OF LOW SALT IMPACT AREA BLEND
- 9.7 SEED TO BE INSTALLED AT THE RATE LISTED IN SECTION 250 OF THE IDOT SPEC BOOK. EITHER MECHANICALLY OR MANUALLY. SEED TO BE RAKED IN OR LIGHTLY COVERED IN A METHOD APPROVED BY CITY ENGINEER OR ENGINEER'S DESIGNEE FROM APRIL 1 TO JUNE 15 AND AUGUST 1 TO NOVEMBER 1
- 9.8 WITHIN 24 HRS. SEEDED AREAS TO BE COVERED PER THE IDOT SPEC 251 UNLESS THE SLOPE IS GREATER THAN 3:1, WHICH IT MUST BE COVERED THE SAME DAY. BLANKET TO USE BIODEGRADABLE STAPLES. THE LONGEVITY OF THE EROSION CONTROL BLANKET PRODUCT TAKE INTO CONSIDERATION THE SITE CONDITIONS AND REQUIRED DEGREE OF STABILIZATION. FOR RESIDENTIAL PARKWAY AREAS OR AS DIRECTED BY THE CITY ENGINEER, EROSION CONTROL BLANKET SHALL BE "ULTRA-SHORT TERM" SUCH THAT THE BLANKET AND NETTING WILL DECOMPOSE WITHIN 3 MONTHS.
- 9.9 IMMEDIATELY UPON COMPLETION OF STRAW PLACEMENT A LIGHT COVERING OF ADHESIVE TREATED HYDROMULCH TO BE INSTALLED TO HOLD STRAW IN PLACE.
- 9.10 ALL MATERIALS, WORK METHOD, EQUIPMENT AND SCHEDULING OF WORK TO BE APPROVED BY CITY ENGINEER OR THEIR DESIGNEE PRIOR TO COMMENCEMENT OF LANDSCAPE RESTORATION WORK.

## 10. EROSION AND SEDIMENT CONTROL CONSTRUCTION

- 10.1 UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE LATEST EDITION OF THE ILLINOIS URBAN MANUAL.
- 10.2 THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- 10.3 A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- 10.4 PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE KDSWCD.
- 10.5 THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE

KDSWCD.

- 10.6 DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURES IS PROHIBITED.
- 10.7 IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS OF IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.
- 10.8 ALL AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE MUST BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS OR ONCE EVERY 14 CALANDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.25 INCHES OR GREATER OR EQUIVALENT SNOWFALL.
- 10.9 IN AREAS WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS OF COMPLETION. IN AREAS WHERE WORK HAS TEMPORARILY CEASED FOR 14 DAYS OR MORE, TEMPORARY STABILIZATION SHALL OCCUR BY THE 14TH DAY AFTER WORK HAS CEASED.
- 10.10 THE DEVELOPER IS RESPONSIBLE FOR SUPPLYING THE CITY OF BATAVIA WITH WEEKLY SOIL EROSION REPORTS.
- 10.11 DUST CONTROL: PROVISIONS SHALL BE MADE TO HAVE THE PUBLIC STREETS SWEEPED WITH A MECHANICAL SWEEPER ON A WEEKLY BASIS, UNLESS REQUIRED DAILY BY THE CITY ENGINEER OR THEIR DESIGNEE. IN ADDITION, THE SITE DUST SHALL BE KEPT TO A MINIMUM BY SPRAYING THE SITE DOWN DAILY WITH WATER TO BE PROVIDED BY THE CONTRACTOR. A METER FOR THE WATER MUST BE OBTAINED FROM THE WATER DIVISION AT PUBLIC WORKS.



**CITY OF BATAVIA**  
**PUBLIC WORKS**

**ENGINEERING DIVISION**  
**STANDARD SPECIFICATIONS**

**SHEET:**  
**DATE:**

**DATE:** 07/13/2020  
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