

NOTES

- ALL MANHOLES SHALL BE FOUR FOOT DIAMETER "RECAST CONCRETE WITH PAVED INVERTS AND BE EQUAL
 TO THOSE MANUFACTURED BY ECYPTIAN CONCRETE CO. OPENINGS AN ALL M.H.'S SHALL BE FOUR WAY.
- 2. MANHOLE CASTINGS SHALL BE NEENAH R-1772 WITH GASKETED TY."C" LID.
- 3. PVC SOUD—WALL SEWER PIPE FOR SEWER MAIN AND LATERALS SHALL BE MADE OF COMPOUNDS. CONFORMING TO ASTM D1784 IN ACCORDANCE WITH THE MATERIAL REQUIREMENTS OF ASTM D2034. PVC SEWER PIPE MUST MEET THE REQUIREMENTS OF AWAY C-900. PIPE SHALL HAVE BELL AND SHOOT JOINTS WITH RUBBER CASACITS MEETING THE REQUIREMENTS OF AWAY C-111. PVC SEWER PIPE SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS OF ASTM D2231.
- ALL PIPE JUINIS SHALL BE OF THE BELL AND SPIGOT TYPE AND CONFORM TO REQUIREMENTS OF ASTM D3212. GASKET MATERIAL TO CONFORM TO ASTM F477.
- SEWER LATERALS TO BE 4" DIA. SDR 26, MEETING ASTM D-3034 SPEC. W/ASTM F-477 JOINT, UNLESS LAFEMALS CROSS ABOVE WATER LINES THEN ASTM 20241, SHALL BE USED.
- ALL MATERIAL AND CONSTRUCTION METHODS TO RE IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS," 5TH EDITION.
- IN ALL CONSTRUCTION, A MINIMUM OF 18" VERTICAL AND 10' HORIZONTAL CLEARANCE MUST BE MAINTAINED BETWEEN WATER AND SEWER MAINS AND LATERALS IN ACCORDANCE WITH SECT. 41—2.016 AND 41—2.016.
- ALL FLEDIRIE GRANTY SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM 02321-88. ALL BEDDING, HAINDHING, AND NITHAL DACKRILL SHALL BE PLACED AT LEAST 6 INCHES OVER 71E TOP OF THE PIPE USING CLASS IN MATERIAL, CLASSIFED IN ACCORDANCE WITH ASTM 107271-89, SECTION 9 AND TABLE 1
- ALL TESTING TO BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS," 50: EDITION.
- THE CONTRACTOR SHALL BE PERMITTED TO USE INFILTRATION, EXPLITRATION, OR AIR TESTING IN ACCORDANCE WITH ARTICLE 31-1.11a OF THE STANDARD SPECIFICATIONS.
- 11. DEFLECTION TESTING SHALL BE IN ACCORDANCE WITH ARTICLE 31-1,118(4) OF THE STANDARD SPECIFICATIONS
- ALL MANHOLES SHALL BE TESTED FOR WATERTIGHTINESS IN ACCORDANCE WITH ASTM C989-94 OR ASTM C1244-93.

WATER NOTES

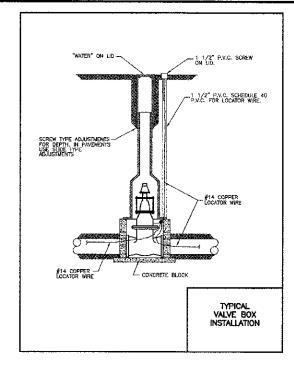
SANITARY SEWER NOTES

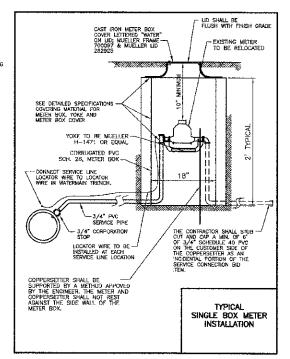
- ALL PVC PIPE SHALL BE SDR 21, AND BEAR THE SEAL OF APPROVAL AND CONFORM TO ASTM D-2241.
 ALL JOINTS SHALL MEET THE REQUIREMENTS OF ASTM F477 AND ASTM D-3139.
- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL COMPLY WITH THE "STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS," 5TH EDITION.
- 3. DEPTH OF COVER SHALL BE A MINIMUM OF 36" UNLESS OTHERWISE NOTE
- 4. FLUSH HYDRAYIS SHALL HAVE TWO 2 1/2" HOSE NOZZLES AND SHALL MEET ALL APPLICABLE PARTS OF ASS/ARMAR CSG2 STANDARD. THE HYDRAYIS SHALL BE MUFFLER BENNED, SUPER CENTURION WODEL NO. A-422 OF APPROVED COULT FOR 6" WAITER MAINS AND LARGEH AND MODEL NO. A-422 OF APPROVED EQUAL FOR 4" WAITER MAINS. ALL ILLUSH HYDRAYIS SHALL DE INSTALLED WITH A 4" AUXILIARY VALVE FOR 4" WAITER MAINS AND A 5" AUXILIARY VALVE FOR 6" AND LARGER WAITER MAINS.
- 5. UNDERGROUND LOCATION WIRE TO BE INSTALLED IN THE SAME TRENCH AS WATER LINE.
- WATER MAINS SHALL BE SEPARATED FROM SEPTIC TANKS, DISPOSAL FIELDS, AND SEEPAGE BEDS A MINIMUM OF 25 FEET.
- 7. ALL PIPE FITTINGS SHALL BE DUCTLE IRON, SHALL COMPLY WITH ANSI/AWWA 0110/A21.20 AND SHALL USE STANLESS STEEL NUTS AND BOLTS. WHERE A CHANGE IN DIRECTION OF THE PIPE OCCURS, RESTRAINT DEVICES EQUAL TO FRAM IRON'S MEGA LUGS SHALL BE INSTALLED. THE RESTRAINT DEVICE SHALL BE THAT RECOMMENDED FOR THE PROPER PUC CLASSIFICATION OF PIPE.
- WATER MAINS SHALL BE SERRARTED FROM SANITARY SEWER WAINS A MINIMUM OF 10' HORIZONTAL AND 18"
 VERTICAL AND SHALL BE INSTALLED AS DETAILED IN STRANDARD DRAWINGS 18—24 IN THE "STANDARD
 SPECIFICATIONS FOR WATER & SEWER AND CONSTRUCTION IN ILLINONS," SHE BETTON, LOCATIONS AND
 ELEVATIONS OF SEWER LATERALS IS NOT PRESENTER KNOWN, ONTWINCHOR SHALL GRAWBE LICOTROM,
 ELEVATION, AND/OR CASE WATER MAIN PER THE STANDARD DRAWINGS WHEN LATERALS ARE ENCOUNTERED.
- INTERCONNECTIONS SHALL CONSIST OF MAKING A PRESSURE TAP ON THE EXISTING WATER MAIN WITH A TAPPING SLEEVE AND A TAPPING VALVE. TAPPING SLEEVE AND ALL BOLTS AND NUTS SHALL BE STANLESS STEFL.
- GATE VALVES SHALL HAVE A NON-RISING STEN AND A 2 INCH SQUARE WRENCH NUT. VALVE BOXES SHALL BE TWO OR THREE PIECE AND HEIGHT ADJUSTABLE.
- 10. FIRE AYDRANTS SHALL BE 3-WAY MUELLER "SUPER CENTURION" MODE.

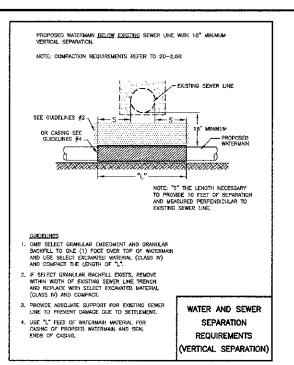
 # A-423 OR APPROVED EQUAL WITH ACKLANY VALVE AND A MINIMUM OF 3.5 FEET BURY. ALL FIRE HYDRANY (FAIDS SHALL BE A MINIMUM OF 6" IN DIAMETER FOR MARINE MANDS 6" IN DIAMETER OR GERAFER.
- 11. ALE NUTS AND BOLTS FOR CATE VALVES & FIRE HYDRANTS SHALL BE STAINLESS STEEL

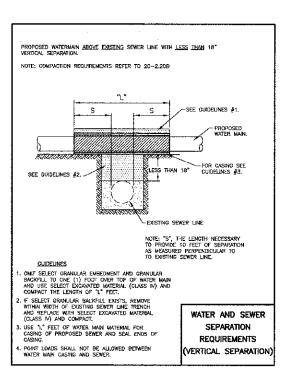
GENERAL NOT

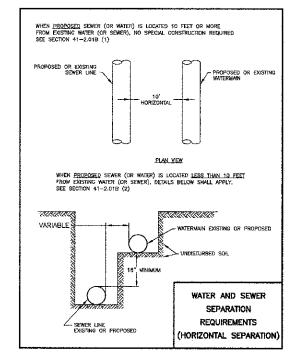
- UNDERGROUND STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE, SURVEYS AND RECORDS AND, TICKETORE, THER LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. THE VERFICATION OF THE LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE PESPONSIBILITY OF THE CONTRACTOR.
- WATER AND SEWER CROSSINGS UNDER STREET AREAS AND DRIVEWAYS SHALL BE BACKFILLED WITH TRENCH WATERMAIN, AND COMPACIED TO BOX DENSITY.
- 3. CONTRACTOR SHALL CONTACT JULLIE. OPERATOR AT 1-800-892-0123 FOR MARKING OF EXISTING UNDERGROUND UTILITIES. JULLIE SHOULD BE CONTACTED A MINIMUM OF 96 HOURS IN ADVANCE OF CONSTRUCTION, CONTRACTOR SHALL MEET ALL REQUIREMENTS FOR CROSSING OF ANY EXISTING UTILITIES.

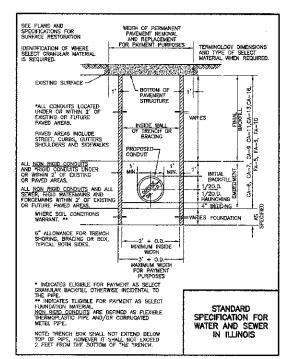


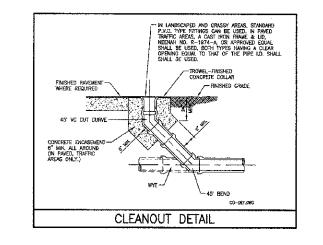


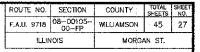












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