

GENERAL NOTES

ALL TOPSOIL SHALL BE STRIPPED AND STOCKPILED AT THE DIRECTION OF THE OWNER. TOPSOIL SHALL BE RE-SPREAD AT THE DIRECTION OF THE OWNER.

EXTREME CARE SHALL BE EXERCISED AND SEDIMENT PROTECTION SHALL BE INSTALLED AND MAINTAINED AROUND THE PERIMETER OF THE SITE SO THAT NO SOIL LADEN RUNOFF SHALL LEAVE THE SITE. THE CONTRACTOR SHALL REMOVE ACCUMULATED SEDIMENT FROM THE DETENTION BASIN AND RE-ESTABLISH ORIGINAL DESIGN GRADES UPON COMPLETION OF THE PROJECT AND AFTER ESTABLISHED VEGETATION OF THE SITE.

ALL WORK SHALL BE DONE UNDER THE SUPERVISION OF THE BUTLER COUNTY ENGINEER AND THE AUTHORITY HAVING RESPONSIBILITY FOR UTILITIES IN THE AREA AND IN ACCORDANCE WITH THE RULES AND REGULATIONS FOR SUBDIVISION.

ALL CONSTRUCTION WORK SHALL BE IN ACCORDANCE WITH THE OHIO DEPARTMENT OF TRANSPORTATION "CONSTRUCTION AND MATERIAL SPECIFICATION" OR BUTLER COUNTY REQUIREMENTS AND STANDARDS FOR SUBDIVISION. WHEN IN CONFLICT, THE COUNTY REQUIREMENTS SHALL

SANITARY SEWER MATERIALS AND INSTALLATION AS PER BUTLER COUNTY WATER AND SEWER DEPARTMENT SPECIFICATIONS, USING SECTION 3110 FOR PVC, SDR-35 & SDR-26 PIPE; SECTION 3140 FOR ABS OR PVC COMPOSITE PIPE; SECTION 3410 FOR MANHOLES.

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

ALL SANITARY SEWER LATERALS SHALL NOT EXCEED A DEPTH BELOW FINISHED GRADE OF 12 FEET OR 4 FEET BELOW A PROPOSED BASEMENT FLOOR ELEVATION AT THE END OF THE LATERAL, UNLESS SPECIFICALLY AUTHORIZED BY THE COUNTY.

SANITARY SEWER LATERALS SHALL BE EXTENDED TO AT LEAST TEN (10) FEET BEYOND THE PROPERTY/RIGHT-OF-WAY LINE OR TO THE EDGE OF THE EASEMENT, WHICH EVER IS GREATER.

WATERMAIN MATERIALS, VALVES, FIRE HYDRANTS, FITTINGS AND APPURTENANCES, AND INSTALLATION AS PER BUTLER COUNTY WATER AND SEWER DEPARTMENT SPECIFICATIONS USING CLASS 53 DUCTILE IRON AS PER AWWA C-151 WITH A MINIMUM 4.0' COVER.

WATER MAIN SHALL HAVE 10' HORIZONTAL, & 18" VERTICAL SEPARATION (OUTSIDE EDGE TO EDGE) WITH ALL OTHER PIPE.

INLETS DESIGNATED AS CB-3 AND CB-3A ARE STATE OF OHIO DEPARTMENT OF TRANSPORTATION STANDARDS. INLETS DESIGNATED AS CB-3 MODIFIED (CB-3M) OR CB-3A MODIFIED (CB-3M) ARE BUTLER COUNTY STANDARDS AVAILABLE AT THE BUTLER COUNTY ENGINEERS OFFICE.

ALL MANHOLES GREATER THAN 4.0' DEPTH SHALL BE PROVIDED WITH STEPS. ALL CATCH BASINS GREATER THAN 4.0' DEPTH SHALL BE PROVIDED WITH

ALL SUMP PUMP DRAINS ARE TO BE TIED INTO CATCH BASINS, STORM MANHOLES, STORM SEWERS, DRAINAGE SWALES, OR PARALLEL COLLECTION LINES. NO SUMP PUMP DRAIN WILL OUTLET TO STREET.

THE CONTRACTOR SHALL RECOMPACT ALL AREAS OF DISTURBED FILL TO 98% COMPACTION. BUTLER COUNTY INSPECTOR REQUIRES VERIFICATION FROM GEOTECHNICAL ENGINEER.

ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH STATE OF OHIO SPECIFICATIONS, ITEM 659.

THE CONTRACTOR SHALL SEED AND MULCH DISTURBED GRASS AREAS WITH: 3 LBS. WHEAT OR RYE PER 1000 SQ. FT. 10 LBS. 12-12-12 FERTILIZER PER 1000 SQ. FT.

2 OR 3 BALES OF STRAW PER 1000 SQ. FT. THE CONTRACTOR SHALL ALSO PROVIDE OTHER EROSION CONTROL MEASURES AS MAY BE REQUIRED BY BUTLER COUNTY ENGINEER DURING THE CONSTRUCTION PHASE

ALL DOWNSPOUT LINES SHALL BE ON SPLASHBLOCKS AND MAY NOT BE CONNECTED TO THE STREET.

SEEDING - SPECIFICATIONS AT DETENTION BASIN: RED FESCUE 1 LB. PER 1000 SQ. FT. KENTUCKY BLUEGRASS 1/2 LB. PER 1000 SQ. FT. PERENNIAL RYEGRASS 1/2 LB. PER 1000 SQ. FT. FERTILIZER: 12 - 12 - 12

MULCH - 3 BALES OF STRAW PER 1000 SQ. FT. MULCH TIE DOWN: LIQUID ASPHALT (R.C 🗆 70, 25 OR 800) 40 GALS. PER 1000 SQ. YDS. OR PLASTIC MULCH NETTING, STAPLED IN PLACE. SOD (IF REQUIRED): TO BE STAKED IN PLACE.

BUTLER COUNTY WATER AND SEWER DEPARTMENT DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE RELOCATION, REPAIR OR REPLACEMENT OF ANY OTHER UTILITY INSTALLED WITHIN FIVE (5) FEET OF THE CENTERLINE OF ANY SANITARY MAIN SEWER OR WATER MAIN.

PRIVATE DRIVEWAYS, PARKING LOTS, EARTHEN BERMS, AND OTHER PAVED AREAS OR STRUCTURES SHOULD NOT BE CONSTRUCTED OVER PRIVATE WATER OR SEWER SERVICE LINES WITHIN THE PUBLIC ROAD RIGHT OF WAY OR WITHIN EASEMENT AREAS FOR THE PUBLIC UTILITIES. SHOULD THIS OCCUR, THE PROPERTY OWNER WILL BE HELD RESPONSIBLE FOR THE PROTECTION AND REPAIR OF AND FOR PROVIDING ACCESS TO ANY CURB STOPS, METER PITS, MANHOLES, CLEANOUTS, ETC., INSTALLED IN CONJUNCTION WITH THESE PRIVATE SERVICE LINES AND FOR ANY DAMAGE OR RESTORATION OF THE PAVED SURFACES OR STRUCTURES THAT MAY RESULT FROM THE FUTURE OPERATION, MAINTENANCE, REPAIR OR REPLACEMENT OF SAID SERVICE LINES AND APPURTENANCES.

WATER SERVICES TO SINGLE FAMILY LOTS ARE 3/4". ALL WATER SERVICES ARE TO BE INSTALLED TO THE PROPOSED WATER METERS (GENERALLY LOCATED BEYOND 15' UTILITY EASEMENT)

ALL WATER MAIN VALVES TO HAVE A MINIMUM DEPTH OF 2.5' AND A MAXIMUM OF 4.0' FROM PROPOSED GRADE TO THE TOP OF THE VALVE OPERATING NUT.

SANITARY SEWER LATERALS WHICH SHALL INCLUDE ALL PIPE AND APPURTENANCES FROM THE BUILDING TO THE PUBLIC SEWER MAIN AND THE CONNECTION TO THE PUBLIC SEWER MAIN SHALL BE CONSIDERED PRIVATE AND THE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN. THE CONNECTION TO THE SEWER INCLUDES ANY PIPING THAT EXTENDS OUT FROM THE MAIN BARREL OF THE SEWER MAIN.

SANITARY SEWER TO BE TIED INTO BUTLER COUNTY SYSTEM.

ALL EXISTING BUILDINGS AND STRUCTURES TO BE REMOVED.

WATER TO BE INSTALLED AND CONNECTED TO BUTLER COUNTY SYSTEM.

ELECTRIC TO BE SUPPLIED BY DUKE ENERGY.

ALL STREETS AND IMPROVEMENTS TO BE ACCORDING TO BUTLER COUNTY STANDARDS AND SPECIFICATIONS.

ALL LOTS HAVE 30' MIN FRONT YARD SETBACK UNLESS OTHERWISE NOTED.

BEST MANAGEMENT PRACTICES SHALL BE USED TO CONTROL SOIL EROSION.

DEVELOPER TO COMPLY WITH OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION

NO DRIVEWAY ACCESS TO McCAULY ROAD SHALL BE ALLOWED FOR LOTS 154,

ALL WATER MAIN, SANITARY SEWER, AND STORM SEWERS, INCLUDING THE DETENTION BASIN WITHIN THIS PROPOSED DEVELOPMENT WILL BE PUBLIC AND DEDICATED TO THE APPROPRIATE GOVERNING AUTHORITY.

NO SIDEWALKS WILL BE CONSTRUCTED IN SECTION 8 TO MATCH THE EXISTING SURROUNDING RESIDENTIAL SUBDIVISION. A VARIANCE WILL BE REQUESTED FROM BUTLER COUNTY PLANNING COMMISSION AND WEST CHESTER TOWNSHIP.

TEST REPORTS WILL BE SUBMITTED FOR LOTS 167 & 168 TO BUTLER COUNTY SWDC PRIOR TO FINAL PLAT APPROVAL.

THE EXISTING POND ON LOTS 167 & 168 WILL BE FILLED IN. COMPACTION

THE CONTRACTOR SHALL INSURE THAT ALL REQUIRED NOTICES ARE GIVEN AND ALL PERMITS ARE ACQUIRED BEFORE THE COMMENCEMENT OF WORK.

COMPACTION TESTING OF EMBANKMENT, GRANULAR BACKFILL, AND/OR SUBGRADE SHALL BE DONE BY AN INDEPENDENT QUALIFIED TESTING LABORATORY UNDER A CONTRACT WITH THE CONTRACTOR. EMBANKMENT SHALL MEET TESTING AS SPECIFIED IN ODOT ITEM 203.12 AND UTILITY TRENCH BACKFILL AS SPECIFIED IN ODOT ITEM 603.08.

ALL BUILDINGS TO BE SERVED BY THE PUBLIC SEWER SYSTEM SHALL BE CONSTRUCTED SO AS TO PROVIDE A MINIMUM OF FOUR FEET (4') OF VERTICAL SEPARATION BETWEEN THE PUBLIC SANITARY SEWER, AT THE POINT OF CONNECTION, AND THE LOWEST BUILDING LEVEL SERVED BY A GRAVITY SEWER CONNECTION. IN ADDITION, SAID BUILDING LEVEL SHALL BE AT LEAST ONE FOOT (1') ABOVE THE LOWEST POINT OF FREE-OVERFLOW (NON-SEALED MANHOLE COVER) UPSTREAM OF ANY TREATMENT FACILITY OR WASTEWATER PUMPING FACILITY THAT RECEIVES THE DISCHARGE FROM SAID BUILDING. SAID MINIMUM SERVICE LEVELS SHALL BE RECORDED ON THE "AS-BUILT" PLANS FOR THE DEVELOPMENT WHICH WILL BE KEPT ON FILE IN THE OFFICE OF THE BUTLER COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES.

LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY GROUND CONDITIONS AND EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION.

THE UTILITIES SHOWN ARE FOR CONTRACTOR'S CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE OWNER ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

BUTLER COUNTY WILL NOT BE RESPONSIBLE FOR ANY PAVEMENT OR STORM SEWER REPAIRS RESULTING FROM WATER MAIN REPAIRS. BUTLER COUNTY ALSO WILL NOT BE RESPONSIBLE FOR ADJUSTING VALVES, FIRE HYDRANTS, METER PITS, ETC. AS A RESULT OF GRADE CHANGES. THE GRANTOR SHALL BE RESPONSIBLE FOR THE PROPER ADJUSTMENT OF VALVES, FIRE HYDRANTS, METER PITS, ETC., TO THE SATISFACTION OF BUTLER COUNTY, DUE TO GRADE CHANGES, PAVING, REPAVING, ETC., INITIATED BY THE GRANTOR.

MATERIAL SPECIFICATIONS

ALL STORM SEWERS SHALL MEET THE MATERIAL AND INSTALLATION REQUIREMENTS OF ODOT ITEM #603 TYPE B CONDUITS, WITH POST CONSTRUCTION TESTING AS DEFINED BELOW.

ALL SEWER PIPE SHALL BE ADS N-12 (707.33) OR APPROVED EQUAL, UNLESS OTHERWISE SHOWN ON THE PLANS.

DEFLECTION TESTING FOR STORM SEWERS AND CULVERTS

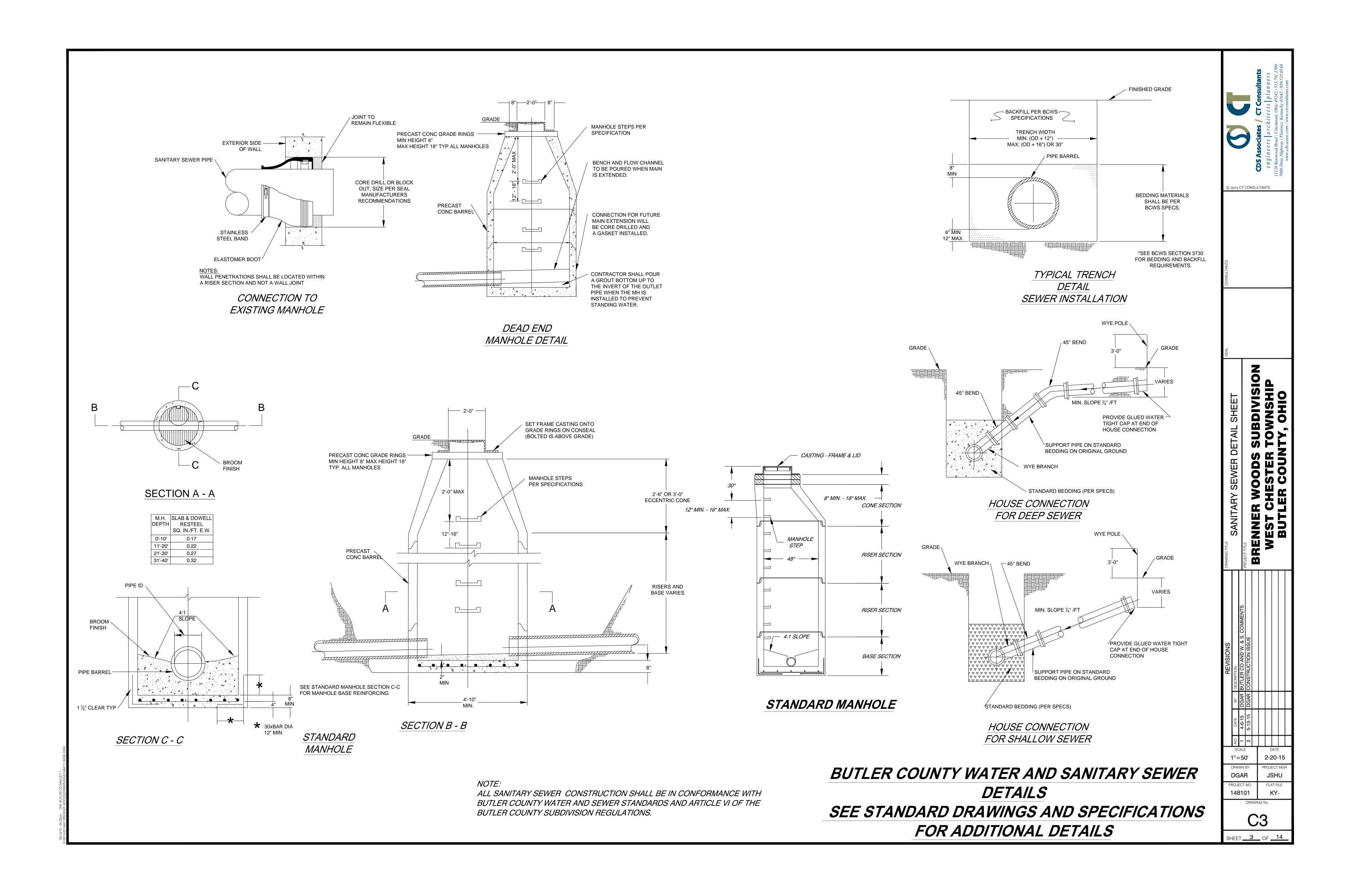
15% OF ALL STORM SEWERS SHALL BE TESTED FOR DEFLECTION WITHIN 30 DAYS 15 AFTER THEY ARE COMPLETE. THE OWNER OR HIS DESIGNATED REPRESENTATIVE WILL DETERMINE WHAT 15% WILL BE TESTED. IF ANY STORM SEWER IN THE ORIGINAL 15% IS FOUND OUT OF COMPLIANCE, DEFLECTION TESTS WILL BE REQUIRED ON 100% OF THE REMAINING STORM SEWER. A VERTICAL RING DEFLECTION GREATER THAN 5% WILL NOT BE ALLOWED. THIS DEFLECTION IS DEFINED AS 5% REDUCTION IN THE VERTICAL BASE OR AVERAGE INSIDE DIAMETER. THE METHOD OF TESTING SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. IF RIGID BALLS OR MANDRELS ARE USED TO TEST PIPE DEFLECTION, NO MECHANICAL PULLING DEVICES SHALL BE USED. THE DEFLECTION TEST MAY BE CONDUCTED WITH A NINE PRONG MANDREL, A BALL OR A CYLINDER OR ANOTHER MANNER ACCEPTABLE TO THE OWNER OR HIS DESIGNATED REPRESENTATIVE. THE TESTING WILL BE ACCOMPLISHED FROM MANHOLE TO MANHOLE OR CATCH BASIN TO CATCH BASIN, FOLLOWING COMPLETE FLUSHING OF THE LINE. THE CONTRACTOR SHALL FURNISH ALL EQUIPMENT REQUIRED TO COMPLETE THE DEFLECTION TESTING. THE DEFLECTION TEST SHALL BE WITNESSED BY THE OWNER OR HIS DESIGNATED REPRESENTATIVE. ANY SECTION OF PIPE THAT FAILS TO MEET THE AFOREMENTIONED REQUIREMENTS SHALL BE REROUNDED BY A PROCEDURE ACCEPTABLE TO THE COUNTY OR BE EXCAVATED AND EITHER RELAYED OR REPLACED, AND RETESTED UNTIL THE REQUIREMENTS ARE MET.

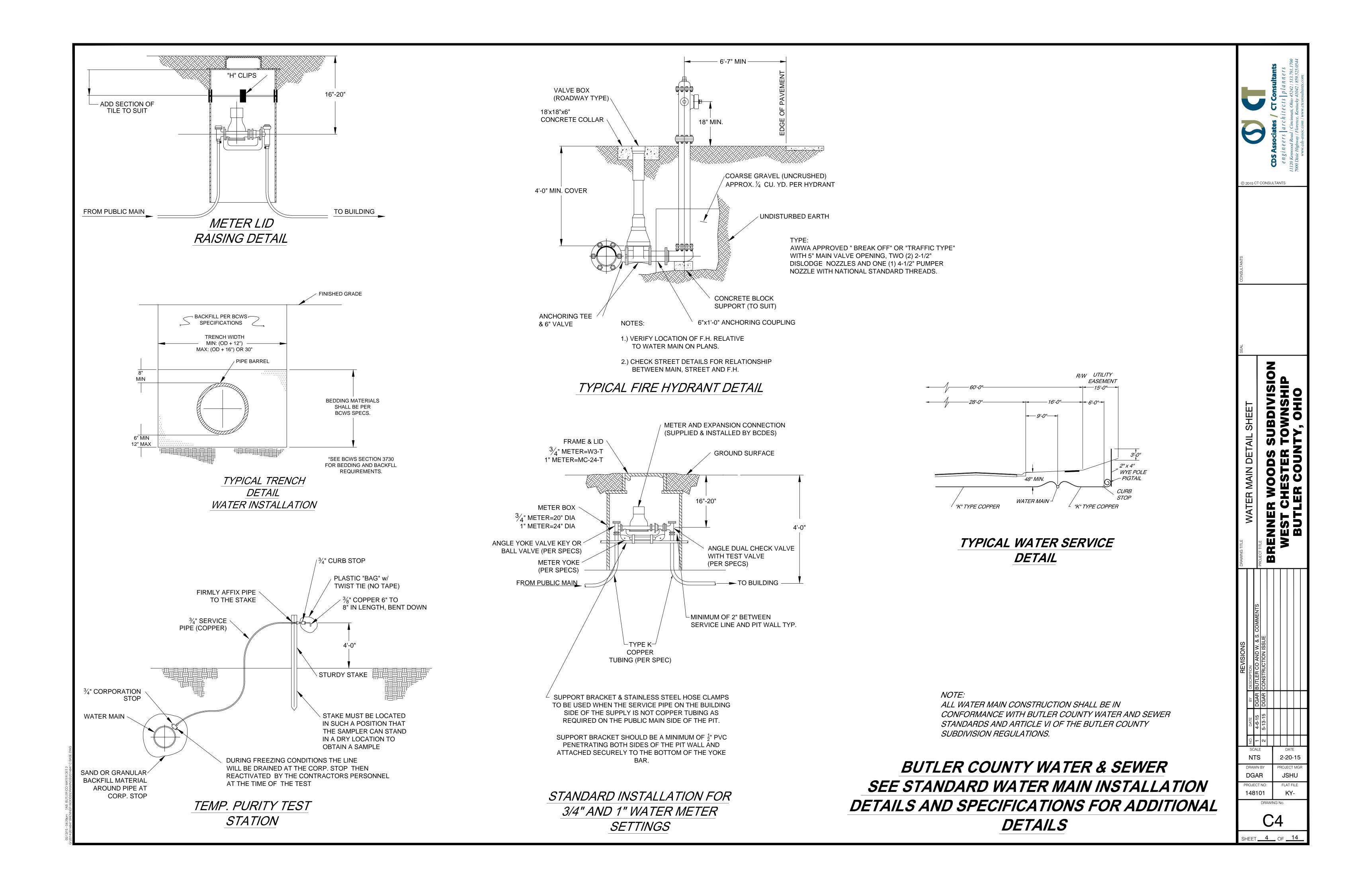
WATER MAIN PIPE SHALL BE DUCTILE IRON, CLASS 53.

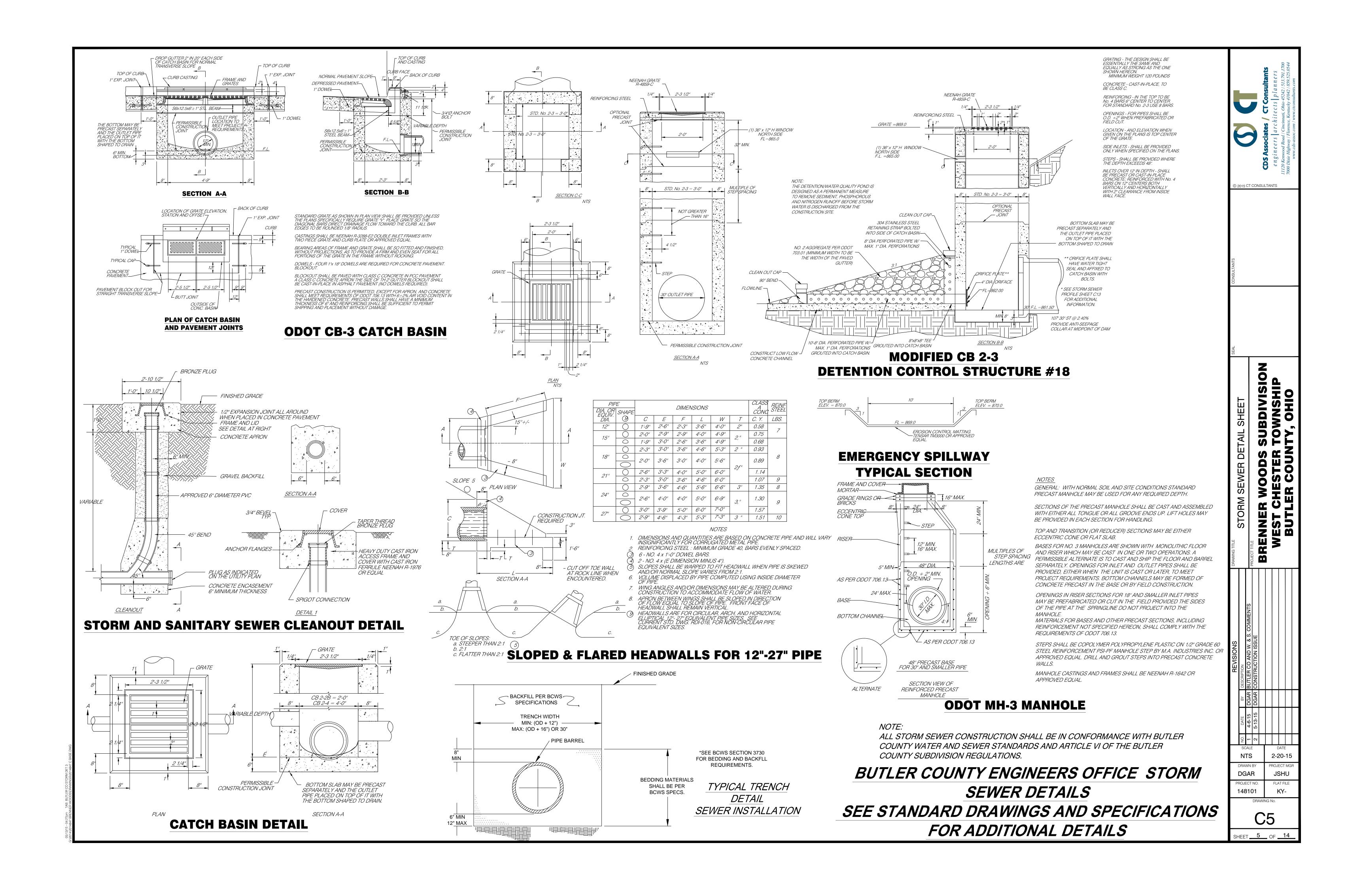
SANITARY SEWER PIPE SHALL BE PVC SDR-35 (16' MAX DEPTH) OR SDR-26 (16'-25').

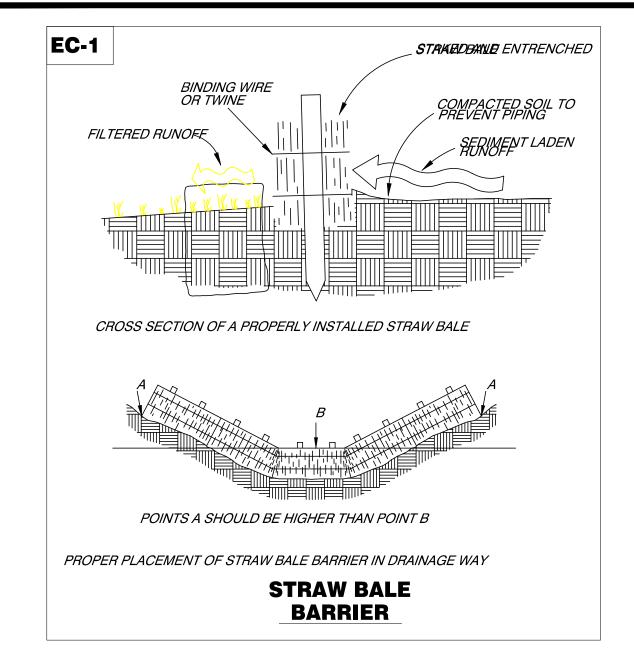
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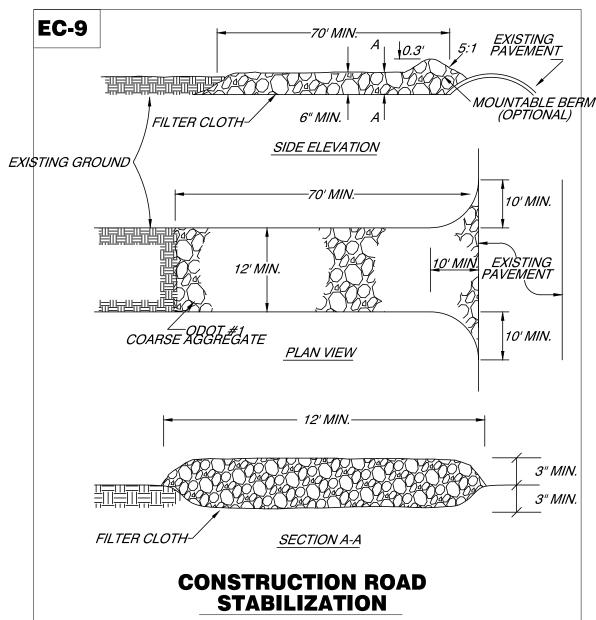
BENNINGTON DRIVE

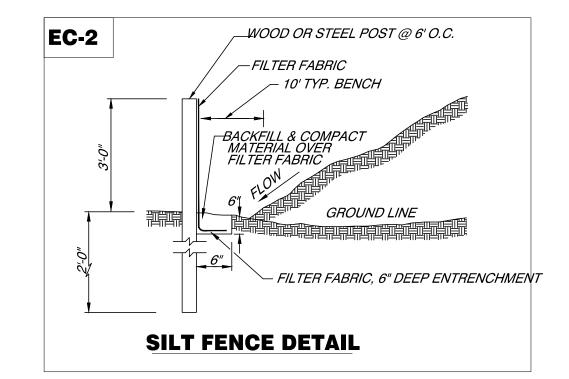


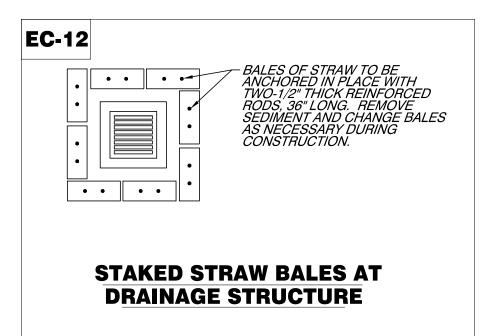












CONSTRUCTION SEQUENCE

- 1. CLEARING AND GRUBBING FOR THOSE AREAS NECESSARY FOR THE INSTALLATION OF EROSION AND SEDIMENT PERIMETER CONTROL MEASURES.
- 2. INSTALL EROSION AND SEDIMENT CONTROL MEASURES.
- 3. GRADING AND STRIPPING OF THE REMAINING AREAS OF THE DEVELOPMENT
- 4. INSTALL STORMWATER MANAGEMENT SYSTEMS. 5. TEMPORARY VEGETATIVE STABILIZATION OF EROSION AND SEDIMENT
- CONTROL MEASURES. 6. GRADING OF ROADS, STREETS, OR PARKING AREAS, ETC.
- 7. INSTALLATION OF ALL UTILITIES.
- 8. SITE CONSTRUCTION.
- 9. FINAL GRADING, STABILIZATION, AND LANDSCAPING.
- 10. REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES.

GENERAL NOTES

THE INSTALLATION OF THE SPECIFIED WATER MANAGEMENT AND SEDIMENT CONTROL MEASURES SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS CONTAINED IN WATER "WATER MANAGEMENT AND SEDIMENT CONTROL FOR URBANIZING AREAS" ON FILE WITH THE OFFICE OF THE COUNTY SOIL AND WATER CONSERVATION SERVICE UNLESS OTHERWISE SPECIFIED HEREIN. A COPY OF THE "WATER MANAGEMENT AND SEDIMENT CONTROL FOR URBANIZING AREAS" HANDBOOK MAY BE OBTAINED FROM THE BUTLER COUNTY BOARD OF COMMISSIONERS.

THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION AND SEDIMENTATION DEVICES AS SHOWN AND REQUIRED BY THESE PLANS. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT ON SITE SHALL BE CONSTRUCTED AS A FIRST STEP IN GRADING AND BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE. EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS SHALL BE SEEDED AND MULCHED WITHIN SEVEN (7) DAYS OF COMPLETION OF INSTALLATION.

EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT IN ANY OFF-SITE DRAINAGE COURSE, WHETHER NATURAL OR MAN-MADE.

ALL EARTH CHANGES SHALL BE CONSTRUCTED AND COMPLETED IN A MANNER WHICH SHALL LIMIT THE EXPOSED AREA OF ANY DISTURBED LAND FOR THE SHORTEST PERIOD OF TIME.

CLEARING AND STRIPPING ARE TO BE LIMITED TO AREAS IN WHICH CONSTRUCTION WILL PROCEED TO COMPLETION. AREAS NOT TO BE IMPROVED PRESENTLY ARE TO REMAIN UNDISTURBED.

DISTURBED SOILS SHALL BE STABILIZED AS QUICKLY AS PRACTICABLE WITH TEMPORARY VEGETATION AND/OR MULCHING TO PROTECT EXPOSED CRITICAL AREAS DURING DEVELOPMENT.

THE PERMANENT FINAL VEGETATION AND STRUCTURAL EROSION CONTROL AND DRAINAGE MEASURES SHALL BE INSTALLED AS SOON AS PRACTICAL IN THE DEVELOPMENT.

THE CONTRACTOR SHALL MAKE DAILY INSPECTIONS OF THE SITE TO INSURE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES, AND WILL IMMEDIATELY MAKE NECESSARY REPAIRS.

PERMANENT SOIL STABILIZATION SHALL BE INSTALLED ON DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. APPLICATION PRACTICES INCLUDE VEGETATIVE ESTABLISHMENT, MULCHING, AND THE EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED, SOIL STABILIZATION MEASURES SHOULD BE SELECTED TO BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND ESTIMATED TIME OF USE.

TEMPORARY SOIL STABILIZATION SHALL BE ESTABLISHED ON ANY DENUDED AREAS WHICH WILL NOT BE REGRADED FOR LONGER THAN THIRTY (30) DAYS. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS AFTER ROUGH GRADING.

A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED AFTER FINAL GRADING. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED WHICH IS MATURE ENOUGH TO CONTROL SOIL EROSION AND TO SURVIVE SEVERE WEATHER CONDITIONS.

UPON COMPLETION OF PERMANENT STABILIZATION OF THE SITE. THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT IN THE BOTTOM OF THE DETENTION BASIN AND RE-ESTABLISHED THE ORIGINAL DESIGN GRADES FOR THE BASIN. ACCUMULATED SEDIMENT SHALL BE REMOVED PERIODICALLY DURING CONSTRUCTION AS REQUIRED BY BUTLER COUNTY SOIL AND WATER.

ALL CONSTRUCTION TRAFFIC SHALL ENTER AND LEAVE BY THE DESIGNATED ENTRANCE. THIS ENTRANCE SHALL BE CONSTRUCTED OF CRUSHED STONE TO HELP FREE TIRES OF SOIL WHEN LEAVING SITE. THE CONTRACTOR SHALL INSTRUCT ALL VEHICLES TO CLEAN AND PROMPTLY REMOVE SOIL, MISCELLANEOUS DEBRIS, OR OTHER MATERIALS SPILLED, DUMPED OR OTHERWISE DEPOSITED ON PUBLIC STREETS, HIGHWAYS, SIDEWALKS OR OTHER PUBLIC THOROUGHFARES DURING TRANSIT TO AND FROM SITE.

ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND REPAIRED AT THE END OF EACH WORKING DAY AND, IN ADDITION, AFTER EACH STORM, SEEDED AREAS SHALL BE REPAIRED, RESEEDED AND MULCHED AS SOON AS POSSIBLE AFTER BEING DAMAGED.

ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUCH MAINTENANCE UNTIL THE FINAL INSPECTION BY THE HAMILTON COUNTY BOARD OF COMMISSIONERS.

ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DISPOSED OF WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED AS DETERMINED BY THE BUTLER COUNTY SOIL AND WATER DEPARTMENT. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED FURTHER EROSION AND SEDIMENTATION.

SAFETY FENCE

PLASTIC (POLYETHYLENE) FENCE:

COLOR "INTERNATIONAL" ORANGE ASTM D638. AVERAGE 2000 LBS. TENSILE YIELD:

PER 4 FT. WIDTH ASTM D638, AVERAGE 2900 LBS. STRENGTH PER 4 FT. WIDTH

ELONGATION AT BREAK (%) GREATER THAN 100%

CHEMICAL RESISTANCE INERT TO MOST CHEMICAL AND ACIDS

CONSTRUCTION

SAFETY FENCES SHALL BE INSTALLED PRIOR TO EROSION AND SEDIMENTATION CONTROL MEASURES BECOMING ACCESSIBLE.

THE WEB SHALL BE SECURED TO A CONVENTIONAL METAL "T" OR "U" POST DRIVEN INTO THE GROUND TO A MINIMUM DEPTH OF 18" INCHES: POSTS SHALL BE SPACED AT 6-FOOT CENTERS.

SAFETY FENCE SHALL BE CHECKED REGULARLY FOR WEATHER-RELATED OR OTHER DAMAGE. ANY NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY.

STRAW BALE PLACEMENT NOTES EC-1 SHEET (OVERLAND) FLOW APPLICATIONS

- 1. BALES SHALL BE PLACED IN A SINGLE ROW, LENGTH ON THE CONTOUR, WITH BOTH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.
- 2. ALL BALES SHALL BE EITHER WIRE BOUND OR STRING TIED. STRAW BALES SHALL BE INSTALLED SO THAT THE BINDINGS ARE ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES TO PREVENT DETERIORATION OF THE
- 3. THE BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED THE WIDTH OF ONE (1) BALE AND THE LENGTH OF THE PROPOSED BARRIER TO MINIMUM DEPTH OF FOUR (4) INCHES. AFTER THE BALES ARE STAKED AND CHINKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE BARRIER. BACKFILL SOIL SHALL CONFORM TO THE GROUND LEVEL ON THE DOWNHILL SIDE AND SHALL BE BUILT UP TO FOUR (4) INCHES AGAINST THE UPHILL SIDE OF THE BARRIER
- 4. EACH BALE SHALL BE SECURELY ANCHORED BY AT LEAST TWO (2) STAKES OR REBARS DRIVEN THROUGH THE BALE.
- 5. THE GAPS BETWEEN THE BALES SHALL BE CHINKED (FILLED BY WEDGING) WITH LOOSE STRAW TO PREVENT RUNOFF LEAKAGE BETWEEN BALES.

CHANNEL FLOW APPLICATIONS

1. BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE, ORIENTED PERPENDICULAR TO THE CONTOUR, WITH ADJACENT BALES TIGHTLY ABUTTING ONE

2. SEE STEPS 2 THROUGH 6 FOR SHEET FLOW APPLICATIONS.

- 3. THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELEVATION THAN THE TOP OF THE LOWEST MIDDLE BALE (SEE EC-1).
- *MAINTENANCE* 1. INSPECTIONS SHALL BE WEEKLY AND AFTER EVERY RAINFALL THAT EXCEEDS 0.5 INCHES IN 24 HOURS.
- 2. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS, AND THE UNDERCUTTING OF BARRIERS BY RUNOFF.
- 3. SEDIMENT DEPOSITS MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION HAS REACHED APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- 4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STRAW BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE

STORM DRAIN (STRAW BALE) **EC-12 INLET PROTECTION NOTES**

EXISTING GRADE, PREPARED, AND SEEDED.

CONSTRUCTION SPECIFICATIONS

- 1. BALES SHALL BE EITHER WIRE BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.
- 2. BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET (SEE EC-14) WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.
- 3. THE INLET PROTECTION SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED AROUND THE INLET THE WIDTH OF A BALE TO A MINIMUM DEPTH OF FOUR (4) INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED
- SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE STRAW BALES. 4. EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO (2) STAKES OR REBARS DRIVEN THROUGH THE BALE.
- 5. LOOSE STRAW SHALL BE WEDGED BETWEEN BALES TO PREVENT RUNOFF FROM ENTERING BETWEEN BALES.

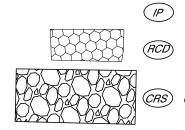
MAINTENANCE

1. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND THE NECESSARY REPAIRS MADE.

- 2. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP.
- 3. STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

EROSION AND SEDIMENT CONTROL LEGEND

—O—— (SF) SILT FENCE



INLET PROTECTION FOR DRAINAGE STRUCTURES

(RCD) ROCK CHECK DAM



CRS) CONSTRUCT ROAD STABILIZATION



(RCP) ROCK CHANNEL PROTECTION (TIP) TEMPORARY STONE INLET PROTECTION



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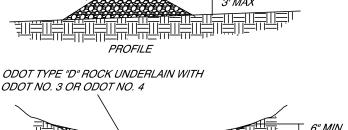
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DRAWING No



EC-9 CONSTRUCTION ROAD STABILIZATION

A 6 INCH COURSE OF ODOT NO. 1 AGGREGATE SHALL BE APPLIED IMMEDIATELY AFTER GRADING. FILTER FABRIC MAY BE APPLIED TO THE ROADBED FOR ADDITIONAL STABILITY IN ACCORDANCE WITH FABRIC MANUFACTURER'S SPECIFICATIONS.

VEGETATION:

ALL ROADSIDE DITCHES, CUTS, FILLS, AND DISTURBED AREAS ADJACENT TO PARKING AREAS AND ROADS SHALL BE STABILIZED WITH APPROPRIATE SEEDING ACCORDING TO THE APPLICABLE STANDARDS AND SPECIFICATIONS CALLED FOR ON THE PLANS.

MAINTENANCE:

BOTH TEMPORARY AND PERMANENT ROADS AND PARKING AREAS MAY REQUIRE PERIODIC TOP DRESSING WITH NEW GRAVEL. SEEDED AREAS ADJACENT TO THE ROADS AND PARKING AREAS SHOULD BE CHECKED PERIODICALLY TO ENSURE THAT A VIGOROUS STAND OF VEGETATION IS MAINTAINED. ROADSIDE DITCHES AND OTHER DRAINAGE STRUCTURES SHOULD BE CHECKED REGULARLY TO ENSURE THAT THEY DO NOT BECOME CLOGGED WITH SILT OR OTHER DEBRIS.

EC-2 SILT FENCE PLACEMENT NOTES

FOR SHEET OR OVERLAND FLOW ONLY

1. THE HEIGHT OF THE SILT FENCE SHALL NOT EXCEED THIRTY-SIX (36)

2. BURLAP OR STANDARD STRENGTH FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL TO AVOID JOINTS. A SIX- INCH LAP IS REQUIRED AT A POST FOR ALL NECESSARY JOINTS.

3. STAKES FOR SILT FENCES SHALL BE FOUR (4) INCH DIAMETER WOOD OR 1.33 LBS./LIN. FT. STEEL WITH A MINIMUM LENGTH OF FIVE FEET.

4. MAXIMUM POST SPACING SHALL BE TEN (10) FEET WHEN WIRE SUPPORT FENCE IS USED AND A MAXIMUM OF SIX (6) FEET WHEN NO WIRE SUPPORT IS USED.

5. A FOUR-INCH BY FOUR-INCH (4" X 4") TRENCH ALONG THE LINE OF STAKES AND UPSLOPE FROM THE BARRIER.

6. WHEN STANDARD STRENGTH FABRIC IS USED WITH STANDARD POST

SPACING, A WIRE SUPPORT FENCE SHALL BE USED AND MUST BE EXTENDED INTO THE TRENCH A MINIMUM OF TWO (2) INCHES. 7. WHEN EXTRA-STRENGTH FABRIC IS USED IN CONJUNCTION WITH CLOSER

POST SPACING, THE FABRIC CAN BE STAPLED DIRECTLY TO THE POSTS WITH

EIGHT (8) INCHES OF FABRIC EXTENDING INTO THE TRENCH. 8. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER MATERIAL (SEE EC-2).

ODOT TYPE "D" ROCK UNDERLAIN WITH ODOT NO. 3 OR ODOT NO. 4 SECTION

ROCK CHECK DAM

