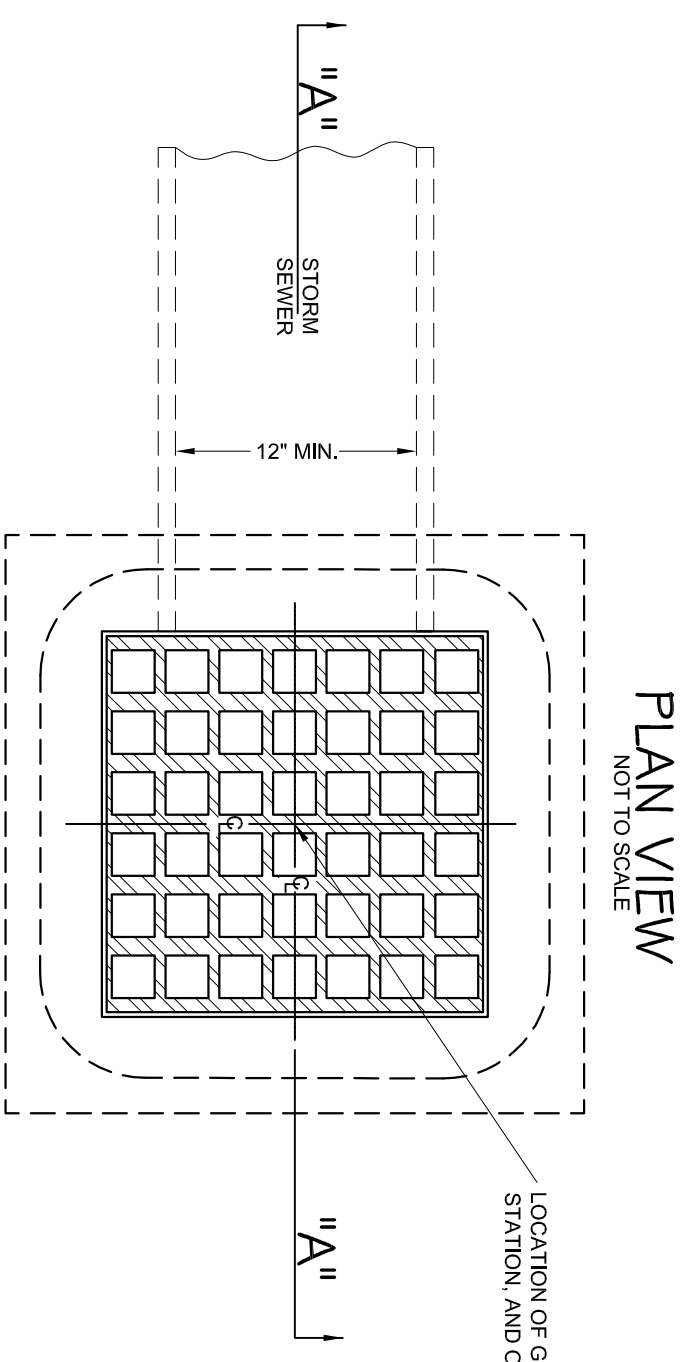
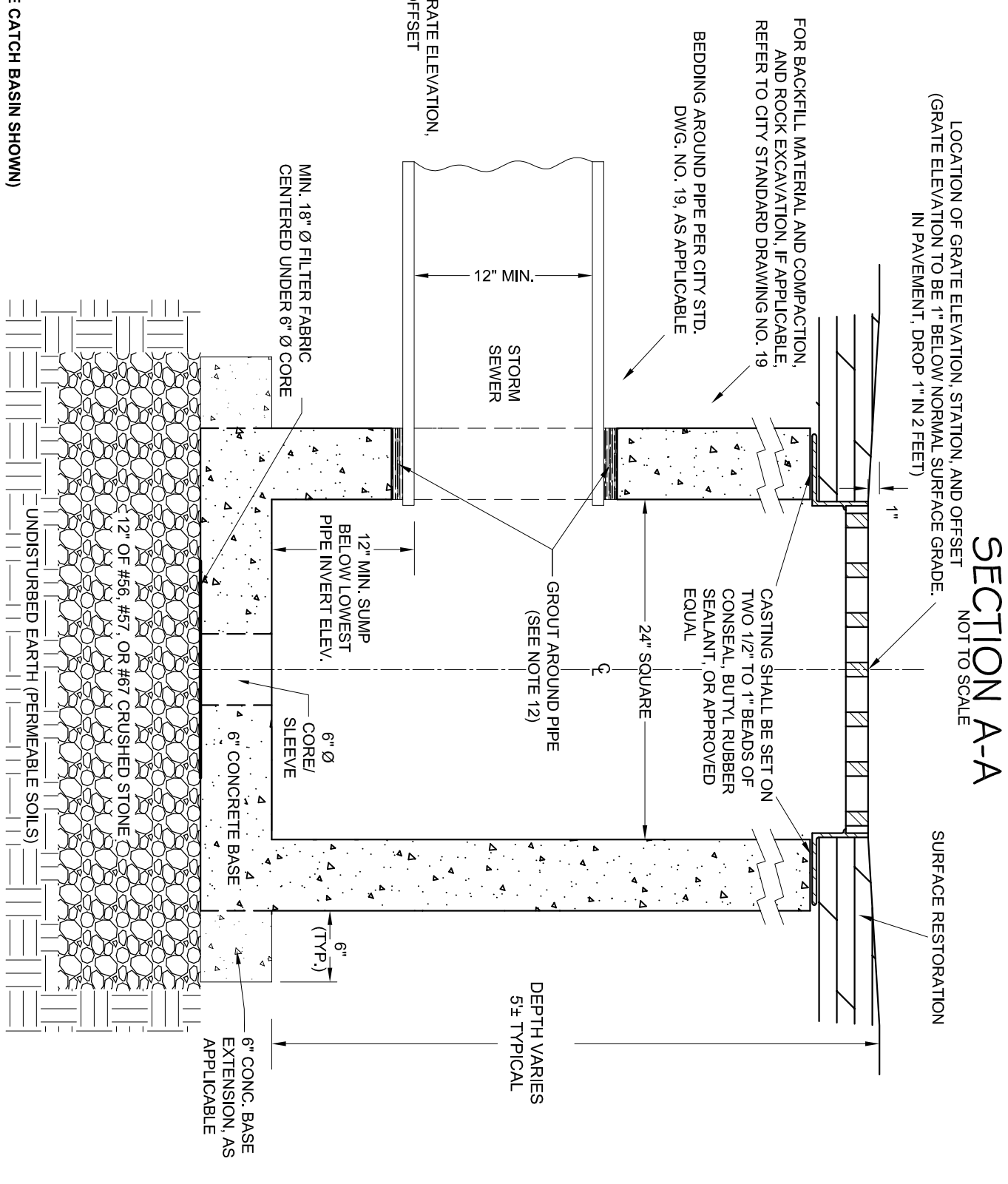


- NOTES:**
1. THESE STRUCTURES ARE ONLY TO BE USED AS DIRECTED BY THE CITY ENGINEER TO ASSIST IN PROVIDING POST-CONSTRUCTION STORM WATER QUALITY TREATMENT IN ACCORDANCE WITH APPLICABLE NPDES PERMIT REQUIREMENTS. THEY ARE BEST UTILIZED AS SUPPLEMENTAL POST-CONSTRUCTION STORM WATER QUALITY TREATMENT TO PROMOTE GROUND INFILTRATION, THE CAPTURE OF LARGER DEBRIS, AND THE OVERALL REDUCTION OF RUNOFF AND POLLUTANTS THROUGH THE STORM SEWER SYSTEM. THESE STRUCTURES SHOULD ONLY BE USED WHEN UNDERLYING SOILS ARE KNOWN TO HAVE MODERATELY RAPID PERMEABILITY OR BETTER.
  2. ALL WORK SHALL CONFORM TO ODOT ITEM 604 EXCEPT AS OTHERWISE NOTED HEREIN.
  3. A 12" MINIMUM SUMP SHALL BE PROVIDED BELOW THE LOWEST STORM SEWER INVERT AND THE BOTTOM OF THE CATCH BASIN.
  4. A 6" DIAMETER CORE OR SLEEVE SHALL BE CENTERED IN THE BASE OF THE CATCH BASIN.
  5. A MINIMUM 18" DIAMETER PIECE OF FILTER FABRIC (ODOT 712.09 TYPE A, B, C, OR D) SHALL BE PLACED UNDER THE BASE OF THE CATCH BASIN BELOW THE 6" CORE/SLEEVE.
  6. THE CATCH BASIN SHALL SIT ON A 12"-THICK LAYER OF #56, #57, OR #67 CRUSHED STONE.
  7. PRECAST CONCRETE OR BRICK CATCH BASINS ARE ALLOWED AS NOTED HEREIN.
  8. ALL CONCRETE SHALL CONFORM TO ODOT ITEM 499 CLASS C (4000 psi).
  9. IF THE CATCH BASIN WILL BE USED IN A TRAFFIC-BEARING APPLICATION, THE PRECAST CONCRETE PORTION OF AN ODOT 2-2B CATCH BASIN MAY BE USED. HOWEVER, THE INLET FRAME AND GRATE AS SPECIFIED HEREIN SHALL BE USED IN LIEU OF THE ODOT 2-2 "LAY-IN" GRATE. ALL ANNULAR SPACE REMAINING BETWEEN THE BOTTOM OF THE INLET FRAME AND THE TOP OF THE PRECAST SECTION SHALL BE FILLED WITH CEMENT GROUT OR CLASS 'C' CONCRETE. IF THE CATCH BASIN WILL BE USED IN A NON-TRAFFIC-BEARING APPLICATION, AN ODOT 2-2 CATCH BASIN MAY BE USED WITH THE STANDARD "LAY-IN" GRATE.
  10. THE EXCAVATED AREA AROUND THE CATCH BASIN SHALL BE BACKFILLED WITH ODOT ITEM 703.11, TYPE 1 (304, 411, OR 617) COMPACTED IN 8" LIFTS. NO FOUNDRY SAND OR SLAG PERMITTED.
  11. WHERE CATCH BASIN WILL BE LOCATED WITHIN CROSSWALK AT ADA RAMP, OR IN DESIGNATED BIKE LANE, CASTING SHALL BE EAST JORDAN IRON WORKS (EJW) 5250 INLET WITH V-5622080 ADA GRATE OR NEENAH R-3405-A INLET WITH TYPE 'L' GRATE, OR EQUAL APPROVED BY CITY ENGINEER. AS APPLICABLE, GRATE SHALL BE ORIENTED SUCH THAT THE LONG OPENINGS ARE PERPENDICULAR TO NORMAL DIRECTION OF BICYCLE TRAFFIC FLOW. IN OTHER LOCATIONS, CASTING SHALL BE EJW 5250 OR NEENAH R-3405 INLET AND STANDARD GRATE MAY BE USED. IN ALL LOCATIONS, GRATE MUST INCLUDE "ECO-SENSITIVE" MARKINGS SUCH AS: "DUMP NO WASTE; DRAINS TO STREAM" AND AN AQUATIC LIFE LOGO. THE LETTERING AND LOGO SHALL BE RAISED OR RECESSED AND INTEGRAL WITH THE CASTING. ALTERNATE NOTATION OR LOGO IS SUBJECT TO THE CITY ENGINEER'S APPROVAL. CASTINGS TO BE CAST OF GRAY IRON IN COMPLIANCE WITH ASTM A-48 CLASS 35 AND AASHTO M306.
  12. ALL OPENINGS AND KNOCKOUTS FOR INLET AND OUTLET PIPING SHALL BE FASHIONED NEATLY. ALL ANNULAR SPACE SHALL BE FILLED WITH CEMENT GROUT, BRICK AND MORTAR, OR CLASS 'C' CONCRETE.
  13. KNOCK-OUT PANELS ARE NOT ALLOWED UNLESS PRE-APPROVED BY THE CITY ENGINEER.
  14. ODOT REFERENCES ARE FROM THE CURRENT ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS. ANY DISCREPANCIES SHALL BE SUBJECT TO THE CITY ENGINEER'S DISCRETION.



**PLAN VIEW**  
NOT TO SCALE

- BRICK CATCH BASINS ARE ACCEPTABLE AND SHALL BE CONSTRUCTED PER THIS DRAWING AND THE FOLLOWING SPECIFICATIONS:**
1. PROVIDE CLAY BRICK (ASTM C-32-93) WALLS WITH FULL MORTAR (ASTM C-91 & C-150, AIR-ENTRAINED PORTLAND CEMENT) JOINTS. CONCRETE & CEMENT BLOCKS/BRICKS ARE PROHIBITED FOR NEW OR RECONSTRUCTED BASINS.
  2. THE CATCH BASIN SHALL HAVE A CONCRETE BASE (MINIMUM 6" THICKNESS) EXTENDING 6" BEYOND OUTSIDE OF FOUR WALLS OF CATCH BASIN.
  3. EVERY SEVENTH COURSE MUST BE A STRETCHER COURSE.
  4. WALL SHALL BE MINIMUM 8" THICK.
  5. PLASTER OUTSIDE WALLS WITH 1/2" NON-SHRINK MORTAR; INSIDE JOINTS MUST BE NEATLY STRUCK AND CLOSED.
- PRECAST CONCRETE CATCH BASINS ARE ACCEPTABLE AND SHALL BE CONSTRUCTED PER THIS DRAWING AND THE FOLLOWING SPECIFICATIONS:**
1. THE PRECAST UNIT SHALL CONFORM TO ODOT ITEM 706.13.
  2. PRECAST WALLS AND BOTTOM SHALL HAVE A MINIMUM THICKNESS OF 6".
  3. A 6" CONCRETE BASE EXTENSION IS REQUIRED ON ALL FOUR SIDES WHEN DEPTH (TOP OF GRATE TO LOWEST PIPE INVERT) EXCEEDS 6 FEET.
  4. STACKED PRECAST SECTIONS MUST HAVE A TONGUE/GROOVE JOINT AND A BUTYL SEALANT.
  5. SHOP DRAWING OF THE PRECAST UNIT SHALL BE SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.



**SECTION A-A**  
NOT TO SCALE

(PRECAST CONCRETE CATCH BASIN SHOWN)

OFFICE OF THE CITY ENGINEER

CANTON, OHIO

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APPROVED DATE: MAR. 2012

APPROVED BY: CDB, RMB, SLH

DRAWING FILE NAME: ce\_05.dwg

**REVISIONS**

DESCRIPTION	DATE	BY
DRAWING NAME CHANGE	8/16/2017	RMB

**STANDARD DRAWING NO. 5**  
**SQUARE-TOP INFILTRATION**  
**CATCH BASIN**