

CONSTRUCTION NOTES:

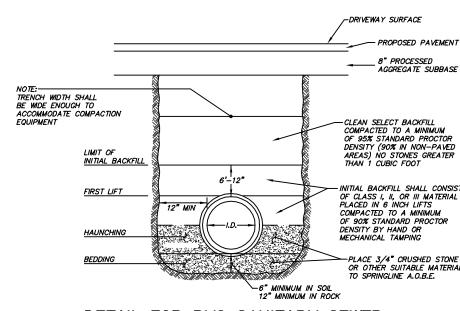
- 1. In accordance with Connecticut Public Act 87-71 and Connecticut General Statutes (CGS) Sections 16-345 through 16-359, the contractor shall verify the depth and location of all utilities prior to commencing construction, and shall contact "Call Before You Dig, Inc." at 1.800.922.4455, 48 hours prior to commencing
- 2. The locations of subsurface structures and utilities as depicted hereon indicate only that the structures exist, and no responsibility is assumed by the engineer or surveyor for the accuracy of the locations shown.
- 3. All construction shall comply with applicable sections of the State of Connecticut, Local, and International Building codes, and those criteria shall take precedent over these plans.
- 4. A Street Opening Permit is required for all work within the City of Stamford Right-of-Way.
- 5. All work within the City of Stamford Right-of-Way shall be constructed to City of Stamford requirements, the State of Connecticut Basic Building Code, and the
- Connecticut Guidelines for Soil Erosion and Sedimentation Control. 6. The City of Stamford Engineering Bureau shall be notified three days prior to the
- commencement of any construction within the City of Stamford Right-of-Way. 7. The contractor shall be responsible for coordinating and maintain traffic flow on
- all surrounding streets throughout the project.
- 8. Trees within the City of Stamford Right-of-Way, designated to be removed, shall be posted in accordance with the Tree Ordinance.
- 9. Construction shall be inspected by a professional engineer as the work progresses.
- 10. Any changes to the plan without the prior approval of the design engineer is
- 11. Certification will be required by a professional engineer licensed in the State of Connecticut that work has been completed in compliance with the approved drawinas.
- 12. A Final Location Plan will be required by a professional land surveyor licensed in the State of Connecticut.
- 13. Sedimentation and erosion controls shall be maintained and repaired as necessary throughout construction until the site is stabilized.
- 14. There shall be no dumping of construction debris and/or excess excavated material into or in proximity to any wetland areas.
- 15. All excavated material shall be stockpiled and contained on—site within silt fencing. The contractor shall be responsible for the removal of all excess material excavated during construction.
- 16. Excess material excavated during construction shall be disposed of legally off
- 17. Existing utilities in conflict with the proposed development as depicted on this plan shall be relocated as directed by the appropriate utility company and/or the owner. The contractor shall excavate test pits as required to verify the location and depth of utilities where conflicts may exist.
- 18. All PVC pipe shall conform to ASTM D-3034 "standard specification for type PSM-Poly Vinyl Chloride (PVC) sewer pipe and fitting", or engineer approved equivalent (SDR-35).
- 19. All corrugated polyethylene pipe (CPP) shall be HDPE, N−12, smooth interior pipe as manufactured by Advanced Drainage Systems, Inc., or engineer approved equivalent, and it shall comply with AASHTO M294-94 Type S (smooth inner liner).
- 20. All drainage and sewer conduits shall have $2-\frac{1}{2}$ minimum cover or be encased in concrete.
- 21. Bedding and backfill material shall conform to ASTM D2321 specification "standard recommended practice for underground installations of flexible thermoplastic sewer pipe (PVC)".
- 22. Where a soft foundation is encountered during construction of storm or sanitary sewers, the contractor shall remove the unsuitable material and replace it with other material approved by the engineer.
- 23. The certifying engineer may direct a change in the location of the drainage and sanitary sewer structures to meet field conditions.
- 24. All catch basin to manhole connections shall be sloped at a minimum of 2% or as otherwise noted.
- 25. Curbed roadway catch basins, frames, grates, and sumps shall be Type "C" 45" x 56" as manufactured by Eastern Precast Co., Inc., or engineer approved equivalent. Catch basins shall have 2-foot minimum sumps and 'bell' type traps
- 26. Curbless roadway catch basins, frames, grates, and sumps shall be Type "CL" 45" x 56" as manufactured by Eastern Precast Co., Inc., or engineer approved equivalent. Catch basins shall have 2-foot minimum sumps and 'bell' type traps over outlet pipes.
- 27. Storm drain manhole sumps and risers shall be 48" diameter as manufactured by Eastern Precast Co., Inc., or engineer approved equivalent. Frames and rims located in the City of Stamford right-of-way shall be pattern no. 1027 as manufactured by Campbell Foundry Co., Inc., or engineer approved equivalent, and shall have "Stamford CONN" cast on cover.
- 28. Precast concrete cone sections shall be eccentric cones, and flat slab tops are to have eccentric openings. Eccentric cone sections shall be used when the vertical distance between the manhole frame and the top of the highest pipe is six (6) feet or greater. Otherwise, flat slab tops shall be used. Aluminum manhole steps (drop form type) shall be provided in all manholes at 12 inch intervals. Each step shall be capable of supporting a minimum load of 1,000 pounds. Wall joints shall be "0-ring" rubber gasket types with the interior and exterior joint faces sealed with waterproof non-shrink grout.
- 29. The contractor shall provide all the equipment, tools, labor and materials necessary to satisfactorily clean and remove all visible obstructions, dirt, sand, sludge, roots, gravel, stones, etc., from the designated sewers, drains
- 30. All existing manhole frames, catch basin grates, and utility structures designated to remain shall be adjusted to finished grade as required. Contractor shall coordinate all utility work with each appropriate utility company.
- 31. Granite block or other decorative stone or brick, depressed curb, driveway apron, and curbing within the City of Stamford Right-of-Way shall require a waiver from the City of Stamford Engineering Bureau.
- 32. Processed aggregate shall be in accordance with the City of Stamford standards and/or Connecticut State Highway Specifications.
- 33. Re-grading, filling, and other alterations to the site shall be restricted to the minimum level necessary to complete the project as shown on the approved

SEDIMENTATION AND EROSION CONTROL NOTES:

- 1. Temporary soil and erosion control measures, inclusive of filter barriers, water breaks, check dams, and anti-tracking areas, shall remain in place for as long as necessary to permanently stabilize developed areas.
- 2. Erosion and sediment control devices shall be installed in their proper sequence. No clearing or grading may be done in any area until the erosion control devices for that area, as shown on the plan, are in place and functional.
- 3. Natural vegetation shall be maintained and protected where practical.
- 4. No changes of this soil erosion and sediment control plan may be made without prior approval of the supervising engineer.
- 5. Land disturbance is to be kept to a minimum. Re-establishment and/or stabilization of disturbed areas shall be scheduled as soon as practical.
- 6. Erosion controls shall be monitored periodically to verify that they are maintained in effective working order. If, during construction, additional control measures are necessary, they shall be installed by that contractor.
- 7. Sediment or debris shall be removed from the drainage pipes and structures as it accumulates during construction. It shall be disposed of in a manner which is consistent with the intent of this plan.
- 8. The contractor may provide alternate means of sediment control, but he may not eliminate placement of protection in the areas indicated hereon.
- 9. Sediment fencing shall be installed where required prior to commencing construction. Fencing shall be Propex Silt Stop (TM) as manufactured by Amoco, or engineer approved equivalent.
- 10. The contractor shall re-grade, topsoil, and seed all disturbed areas immediately after construction has been completed.
- 11. All designated trees shall be protected during the construction period, except those designated to be removed. Tree protection shall be in accordance with generally accepted standards. (Refer to the Connecticut Guidelines for Soil
- 12. Additional protection measures shall be implemented should site conditions

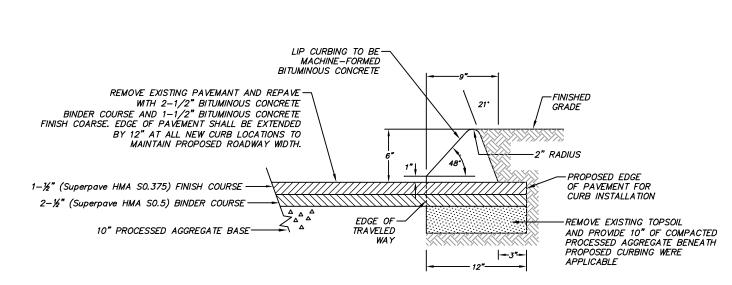
Erosion and Sediment Control (2002) for details and specifications).

13. Refer to Connecticut Guidelines for Soil Erosion and Sediment Control (2002) for additional details and specifications.

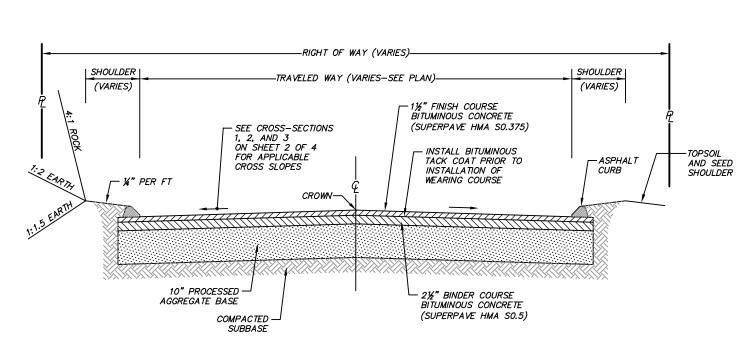


DETAIL FOR PVC SANITARY SEWER <u>AND PVC/CPP STORM DRAIN INSTALLATION</u>

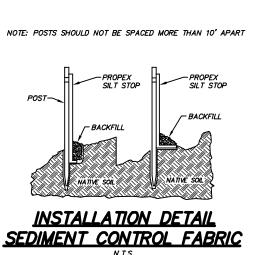
1. REFER TO ASTM D2321 (STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY—FLOW APPLICATIONS) FOR TRENCHING SPECIFICATIONS.



NEW BITUMINOUS CONCRETE CURB INSTALLATION DETAIL



TYPICAL ROADWAY SECTION



REMOVE TOPSOIL AND REPLACE -

-2" ASPHAT BINDER COURSE

-4" PROCESSED

ANTI-TRACKING PAD DETAIL

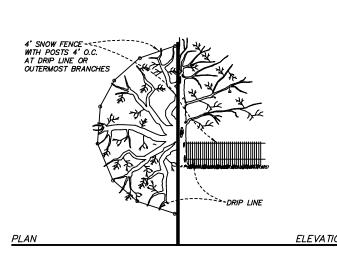
CRUSHED STONE TO SURFACE

CURTAIN DRAIN DETAIL

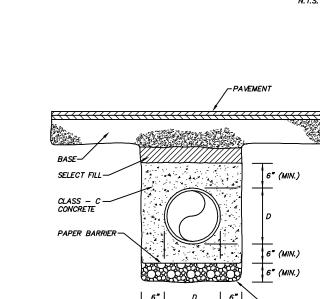
PAVEMENT

10" PROCESSED-

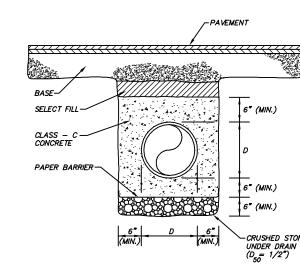
CRUSHED -STONE AS REQUIRED



TREE PROTECTION

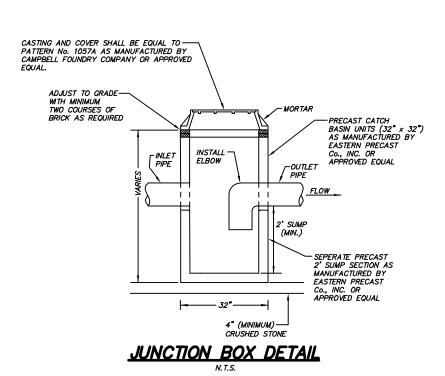


MANUFACTURED BY
ATLANTIC CONSTRUCTION
FABRICS, INC.
OR ENGINEER APPROVED

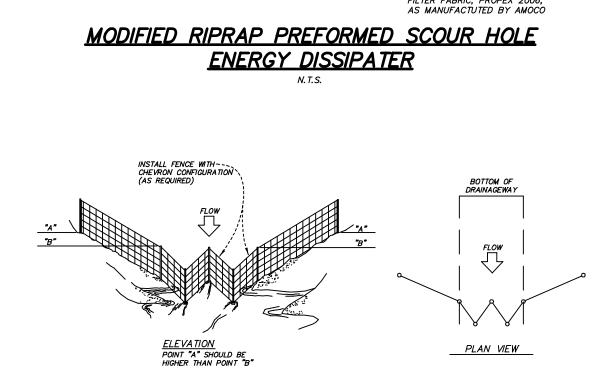


CATCH BASIN SILTSACK DETAIL

CONCRETE CASING DETAIL



JUNCTION BOX SHALL HAVE A MINIMUM SUMP OF 2 FEE AS MEASURED FROM THE LOWEST PIPE INVERT ELEVATION TO THE INTERIOR BOTTOM OF THE STRUCTURE. CONTRACTOR SHALL PURCHASE AND INSTALL A SEPARATE SUMP SECTION. NO OUTLET OR INLET PIPES SHALL PENETRATE THE BOTTOM SUMP SECTION.



-1V:3H SIDE SLOPE

PLAN VIEW

SECTION A-A

MODIFIED RIPRAP

GRADATION TABLE

STONE SIZE % OF MASS

LESS THAN 1"

-12" MODIFIED RIPRAF

-GEOTEXTILE (SEPARATION)

└-6" GRANULAR FILL

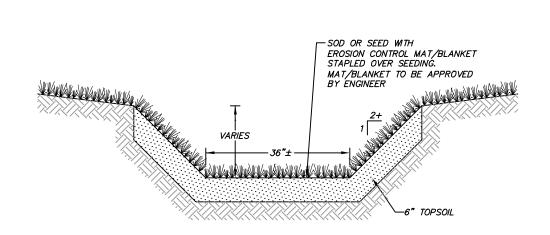
24" OUTLET-

24" OUTLET

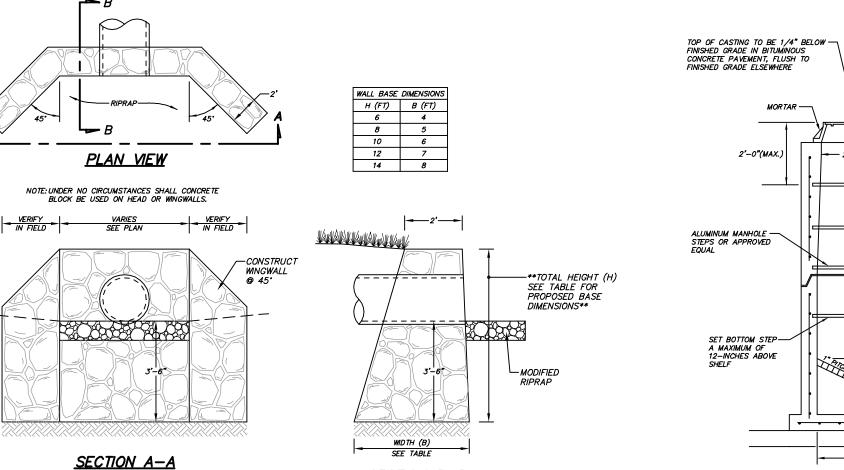
FLOW

FLOW

CHEVRON CONFIGURATION SILT FENCE



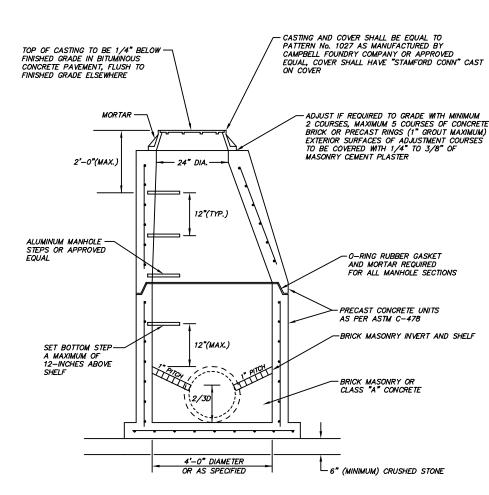
GRASS SWALE DETAIL



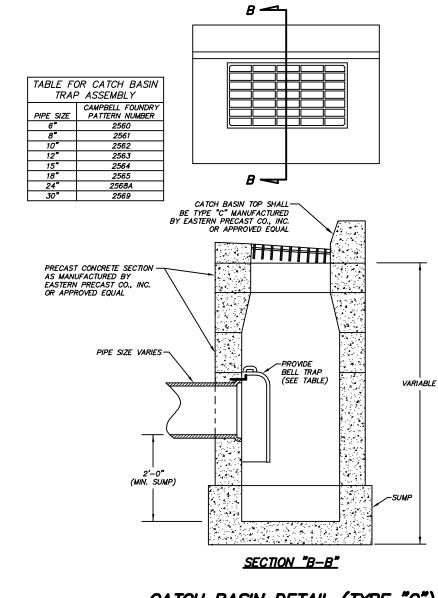
SECTION B-B

PERFORATED

STONE MASONRY END/HEAD WALL



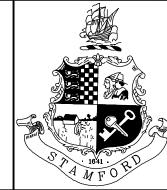
STORM DRAIN MANHOLE DETAIL



CATCH BASIN DETAIL (TYPE "C")

D'ANDREA SURVEYING & ENGINEERING, PC

- CIVIL ENGINEERS
- LAND SURVEYORS
- LAND PLANNERS
- P.O. BOX 549 SIX NEIL LANE RIVERSIDE, CONNECTICUT 06878 (203) 637-1779 (203) 637-1770 (FAX)
- SEAL 2 2/9/18 ADDRESS ENGINEERING COMMENTS, RESUBMIT TO EPB 1 9/7/17 RESPOND TO EPB & ENGINEERING COMMENTS 0 4/14/17 SUBMIT TO EPB NO. DATE DESCRIPTION **REVISIONS** FILE NO.



CITY OF STAMFORD CONN.

BUREAU OF ENGINEERING DEPARTMENT OF PUBLIC WORKS

| TIT | DATE _2/9/18 | DRAWN BY | DATE _4/14/17_ | VEYED BY D'ANDREA |
|-----|------------------|-------------|-------------------|-----------------------|
| | DATE _2/9/18_ | CHECKED BY | DATE _2/9/18_ | GIGNED BY D'ANDREA |
| DE | DATE | INSP. SUPV. | DATE | S. SUPV. |
| | | | | |

ENGINEER: JOSHUA K. HANNANT, CT. PE No. 26852

MILL ROAD ROADWAY & DRAINAGE **IMPROVEMENTS** ESCRIPTION

NOTES & DETAILS

PROJECT NO. SHEET NO.

SCALE: 1" = 20'