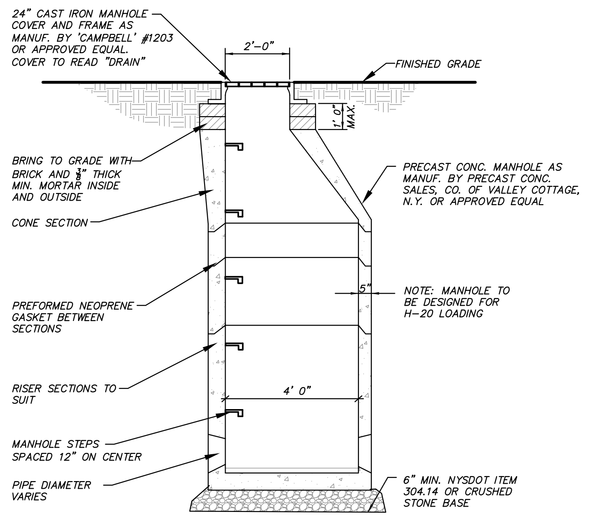
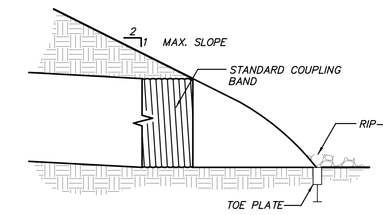
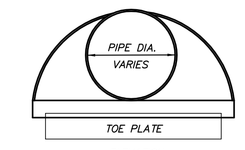


DRAINAGE MANHOLE DETAIL

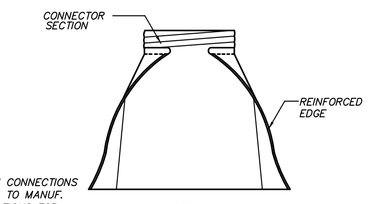
(N.T.S.)



SECTION



ELEVATION

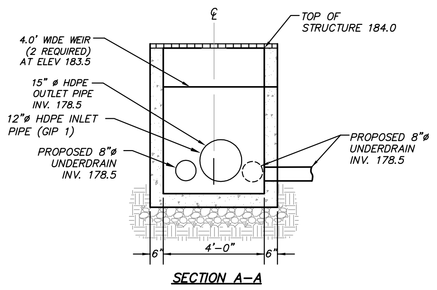


PLAN

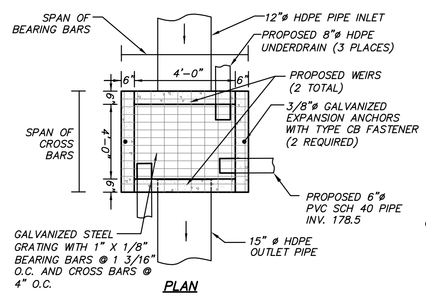
NOTE:
END SECTION CONNECTIONS TO CONFORM TO MANUF. RECOMMENDATIONS FOR VARIOUS PIPE SIZES

END SECTION DETAIL

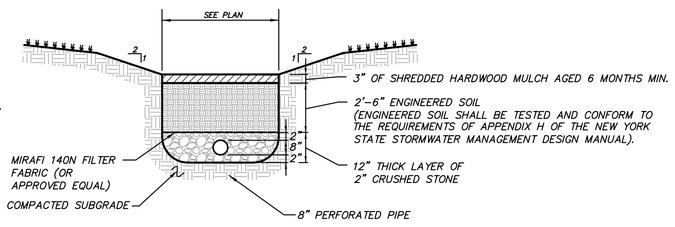
(N.T.S.)



SECTION A-A

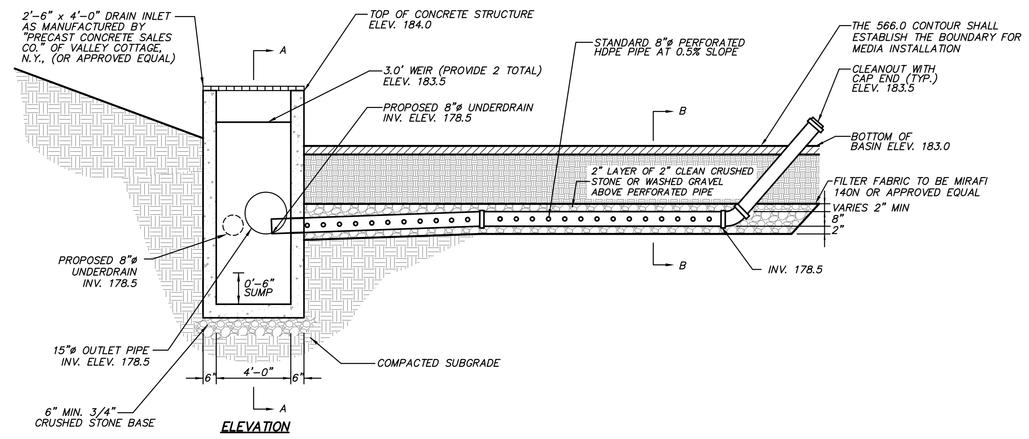


PLAN



* NOTE: MULCH SHALL BE SHREDDED HARDWOOD AGED MINIMUM 6 MONTHS.

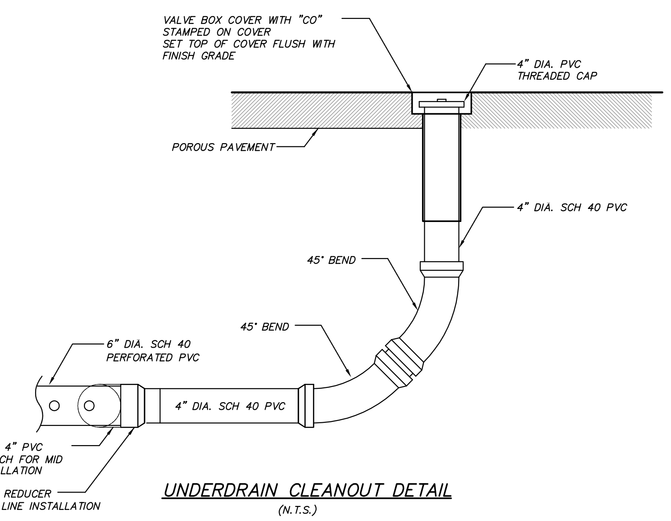
SECTION B-B



ELEVATION

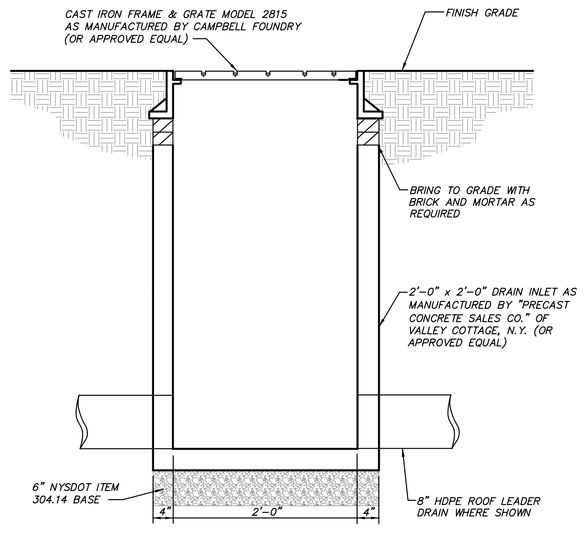
GIP 1 – BIORETENTION FILTER OUTLET STRUCTURE DETAIL (NYSDEC DESIGN F-5)

(N.T.S.)



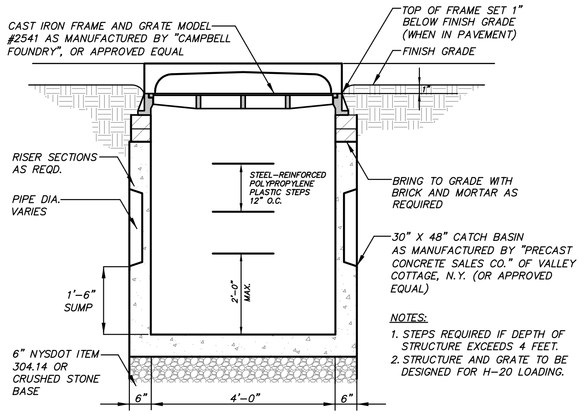
UNDERDRAIN CLEANOUT DETAIL

(N.T.S.)



YARD DRAIN/DRAIN INLET DETAIL (TO BE DESIGNED FOR H-20 LOADING)

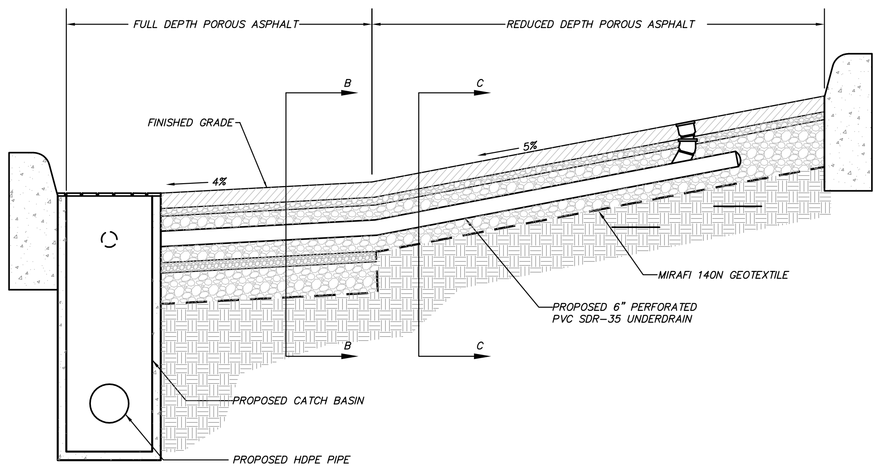
(N.T.S.)



NOTES:
1. STEPS REQUIRED IF DEPTH OF STRUCTURE EXCEEDS 4 FEET.
2. STRUCTURE AND GRATE TO BE DESIGNED FOR H-20 LOADING.

CATCH BASIN DETAIL

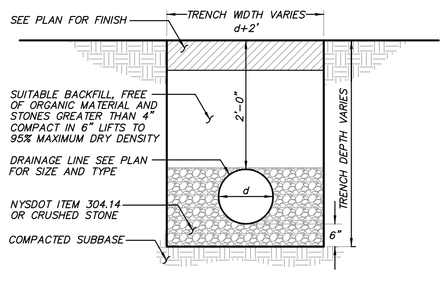
(N.T.S.)



POROUS ASPHALT PARKING LOT CROSS SECTION

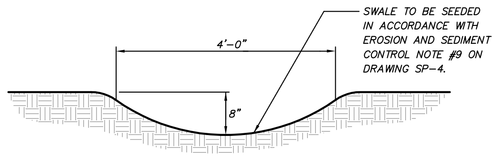
REFER TO PLAN VIEW FOR CROSS SECTION LOCATION

(N.T.S.)



DRAINAGE LINE TRENCH DETAIL

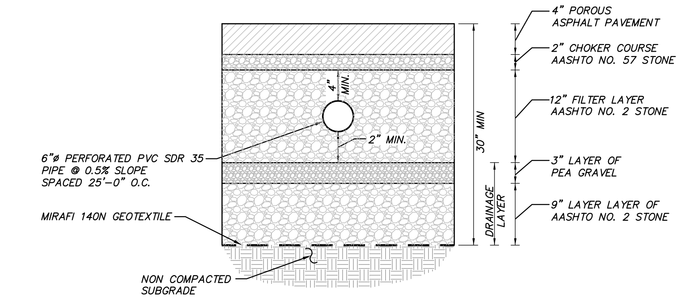
(N.T.S.)



GRASS SWALE DETAIL

(N.T.S.)

GRASS SWALE AND TYPICAL DRAINAGE SWALE TO BE LINED WITH CURLEX I AS MANUFACTURED BY "AMERICAN EXCELSIOR COMPANY" OR APPROVED EQUAL.

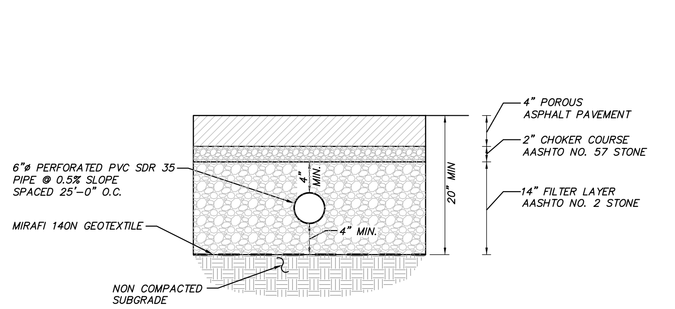


NYSDEC CONSTRUCTION GUIDELINES:

1. THE SUBGRADE CANNOT BE OVERLY COMPACTED WITH THE INCLUSION OF FINE PARTICULATES.
2. EXTREMELY HIGH OR LOW TEMPERATURES SHOULD BE AVOIDED DURING CONSTRUCTION OF PERVIOUS ASPHALT PAVEMENTS.
3. AREAS FOR POROUS PAVEMENT SYSTEMS SHALL BE CLEARLY MARKED BEFORE ANY SITE WORK BEGINS TO AVOID SOIL DISTURBANCE AND COMPACTION DURING CONSTRUCTION.
4. PERVIOUS PAVEMENT AND OTHER INFILTRATION PRACTICES SHOULD BE INSTALLED TOWARD THE END OF THE CONSTRUCTION PERIOD. UPSTREAM CONSTRUCTION SHALL BE COMPLETED AND STABILIZED BEFORE CONNECTION TO POROUS PAVEMENT SYSTEM. A DENSE AND VIGOROUS VEGETATIVE COVER SHALL BE ESTABLISHED OVER ANY CONTRIBUTING PERVIOUS DRAINAGE AREAS BEFORE RUNOFF CAN BE ACCEPTED INTO THE FACILITY.
5. SUBSURFACE AREA SHOULD BE EXCAVATED TO PROPOSED DEPTH. EXISTING SUBGRADE SHALL NOT BE COMPACTED OR SUBJECT TO EXCESSIVE CONSTRUCTION EQUIPMENT PRIOR TO PLACEMENT OF GEOTEXTILE AND STONE BED. WHERE EROSION OF SUBGRADE HAS CAUSED ACCUMULATION OF FINE MATERIALS AND/OR SURFACE PONDING, THIS MATERIAL SHALL BE REMOVED WITH LIGHT EQUIPMENT AND THE UNDERLYING SOILS SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES WITH A YORK RAKE OR EQUIVALENT AND LIGHT TRACTOR.
6. PLACE GEOTEXTILE AND RECHARGE BED AGGREGATE IMMEDIATELY AFTER ENGINEER'S APPROVAL OF SUBGRADE PREPARATION TO PREVENT ACCUMULATION OF DEBRIS OR SEDIMENT. PREVENT RUNOFF AND SEDIMENT FROM ENTERING THE STORAGE BED DURING THE PLACEMENT OF THE GEOTEXTILE AND AGGREGATE BED.
7. PLACE GEOTEXTILE IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDATIONS. ADJACENT STRIPS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF 16 INCHES. FABRIC SHALL BE SECURED AT LEAST 4 FEET OUTSIDE OF BED. THIS EDGE STRIP SHOULD REMAIN IN PLACE UNTIL ALL BARE SOILS CONTIGUOUS TO BEDS ARE STABILIZED AND VEGETATED.
8. AS THE SITE IS FULLY STABILIZED, EXCESS GEOTEXTILE CAN BE CUT BACK TO THE EDGE OF THE BED.
9. INSTALL AGGREGATE COURSE IN LIFTS OF 6-8 INCHES. KEEP EQUIPMENT MOVEMENT OVER STORAGE BED SUBGRADES TO A MINIMUM. INSTALL AGGREGATE TO GRADES INDICATED ON THE DRAWINGS.

FULL DEPTH POROUS ASPHALT PAVEMENT DETAIL SECTION

(N.T.S.)



NYSDEC CONSTRUCTION GUIDELINES:

1. THE SUBGRADE CANNOT BE OVERLY COMPACTED WITH THE INCLUSION OF FINE PARTICULATES.
2. EXTREMELY HIGH OR LOW TEMPERATURES SHOULD BE AVOIDED DURING CONSTRUCTION OF PERVIOUS ASPHALT PAVEMENTS.
3. AREAS FOR POROUS PAVEMENT SYSTEMS SHALL BE CLEARLY MARKED BEFORE ANY SITE WORK BEGINS TO AVOID SOIL DISTURBANCE AND COMPACTION DURING CONSTRUCTION.
4. PERVIOUS PAVEMENT AND OTHER INFILTRATION PRACTICES SHOULD BE INSTALLED TOWARD THE END OF THE CONSTRUCTION PERIOD. UPSTREAM CONSTRUCTION SHALL BE COMPLETED AND STABILIZED BEFORE CONNECTION TO POROUS PAVEMENT SYSTEM. A DENSE AND VIGOROUS VEGETATIVE COVER SHALL BE ESTABLISHED OVER ANY CONTRIBUTING PERVIOUS DRAINAGE AREAS BEFORE RUNOFF CAN BE ACCEPTED INTO THE FACILITY.
5. SUBSURFACE AREA SHOULD BE EXCAVATED TO PROPOSED DEPTH. EXISTING SUBGRADE SHALL NOT BE COMPACTED OR SUBJECT TO EXCESSIVE CONSTRUCTION EQUIPMENT PRIOR TO PLACEMENT OF GEOTEXTILE. WHERE EROSION OF SUBGRADE HAS CAUSED ACCUMULATION OF FINE MATERIALS AND/OR SURFACE PONDING, THIS MATERIAL SHALL BE REMOVED WITH LIGHT EQUIPMENT AND THE UNDERLYING SOILS SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES WITH A YORK RAKE OR EQUIVALENT AND LIGHT TRACTOR.
6. PLACE GEOTEXTILE AND FILTER LAYER AGGREGATE IMMEDIATELY AFTER ENGINEER'S APPROVAL OF SUBGRADE PREPARATION TO PREVENT ACCUMULATION OF DEBRIS OR SEDIMENT.
7. PLACE GEOTEXTILE IN ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDATIONS. ADJACENT STRIPS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF 16 INCHES. FABRIC SHALL BE SECURED AT LEAST 4 FEET OUTSIDE OF BED. THIS EDGE STRIP SHOULD REMAIN IN PLACE UNTIL ALL BARE SOILS CONTIGUOUS TO BEDS ARE STABILIZED AND VEGETATED.
8. AS THE SITE IS FULLY STABILIZED, EXCESS GEOTEXTILE CAN BE CUT BACK TO THE EDGE OF THE BED.

REDUCED DEPTH POROUS ASPHALT PAVEMENT DETAIL SECTION

(N.T.S.)

EROSION & SEDIMENT CONTROL NOTES:

1. The owner's field representative (O.F.R.) will be responsible for the implementation and maintenance of erosion and sediment control measures on this site prior to and during construction.
2. All construction activities involving the removal or disposition of soil are to be provided with appropriate protective measures to minimize erosion and contain sediment disposition within. Minimum soil erosion and sediment control measures shall be implemented as shown on the plans and shall be installed in accordance with "New York Standards and Specifications For Erosion and Sediment Control," latest edition.
3. Wherever feasible, natural vegetation should be retained and protected. Disturbance shall be minimized in the areas required to perform construction. No more than 5 acres of unprotected soil shall be exposed at any one time.
4. When land is exposed during development, the exposure shall be kept to the shortest practical period of time. In the areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the current soil disturbance activity ceased. Disturbance shall be minimized to the areas required to perform construction.
5. Silt fence shall be installed as shown on the plans prior to beginning any clearing, grubbing or earthwork.
6. All topsoil to be stripped from the area being developed shall be stockpiled and immediately seeded for temporary stabilization. Ryegrass (annual or perennial) at a rate of 30 lbs. per acre shall be used for temporary seeding in spring, summer or early fall. 'Aristook' Winter Rye (cereal rye) shall be used for temporary seeding in late fall and winter.
7. Any disturbed areas not subject to further disturbance or construction traffic, permanent or temporary, shall have soil stabilization measures initiated for permanent vegetation cover in combination with a suitable mulch within 1 business day of final grading. All seeded areas to receive a minimum 4" topsoil (from stockpile area) and be seeded and mulched as follows:
   - Seed mixture to be planted between March 21 and May 20, or between August 15 and October 15 or as directed by project representative at a rate of 100 pounds per acre in the following proportions:

Kentucky Bluegrass	20%
Creeping Red Fescue	40%
Perennial Ryegrass	20%
Annual Ryegrass	20%

   - Mulch: Salt hay or small grain straw applied at a rate of 90 lbs./1000 S.F. or 2 tons/acre, to be applied and anchored according to "New York Standards and Specification For Erosion and Sediment Control," latest edition.
8. Grass seed mix may be applied by either mechanical or hydroseeding methods. Seeding shall be performed in accordance with the current edition of the "NYSDOT Standard Specification, Construction and Materials, Section 610-3.02, Method No. 1". Hydroseeding shall be performed using materials and methods as approved by the site engineer.
9. Cut or fill slopes steeper than 2:1 shall be stabilized immediately after grading with Curlex I Single Net Erosion Control Blanket, or approved equal.
10. Paved roadways shall be kept clean at all times.
11. The site shall at all times be graded and maintained such that all stormwater runoff is diverted to soil erosion and sediment control facilities.
12. All storm drainage outlets shall be stabilized, as required, before the discharge points become operational.
13. Stormwater from disturbed areas must be passed through erosion control barriers before discharge beyond disturbed areas or discharged into other drainage systems.
14. Erosion and sediment control measures shall be inspected and maintained on a daily basis by the O.F.R. to insure that channels, temporary and permanent ditches and pipes are clear of debris, that embankments and berms have not been breached and that all straw bales and silt fences are intact. Any failure of erosion and sediment control measures shall be immediately repaired by the contractor and inspected for approval by the O.F.R. and/or site engineer.
15. Dust shall be controlled by sprinkling or other approved methods as necessary, or as directed by the O.F.R.
16. Cut and fills shall not endanger adjoining property, nor divert water onto the property of others.
17. All fills shall be placed and compacted in 6" lifts to provide stability of material and to prevent settlement.
18. The O.F.R. shall inspect downstream conditions for evidence of sedimentation on a weekly basis and after rainstorms.
19. As warranted by field conditions, special additional erosion and sediment control measures, as specified by the site engineer and/or the Village Engineer shall be installed by the contractor.
20. Erosion and sediment control measures shall remain in place until all disturbed areas are suitably stabilized.

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

INSITE
ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Garrett Place
Carmel, NY 10512
(845) 225-9690
(845) 225-9717 fax
www.insite-eng.com

PROJECT:
ARTIS SENIOR LIVING OF TARRYTOWN
153 WHITE PLAINS ROAD, VILLAGE OF TARRYTOWN, WESTCHESTER COUNTY, NEW YORK

DRAWING:
DETAILS

PROJECT NUMBER	17200.100	PROJECT MANAGER	R.D.W.
DATE	1-28-19	DRAWN BY	A.K.M
SCALE	AS NOTED	CHECKED	

DRAWING NO. D-4
SHEET 12/12

Z:\E\17200\005\CADD Drawing Files\# Site Plan Drawings\08 ST-4.dwg, 2/5/2019 7:49:39 PM, jhobbs, 1:1