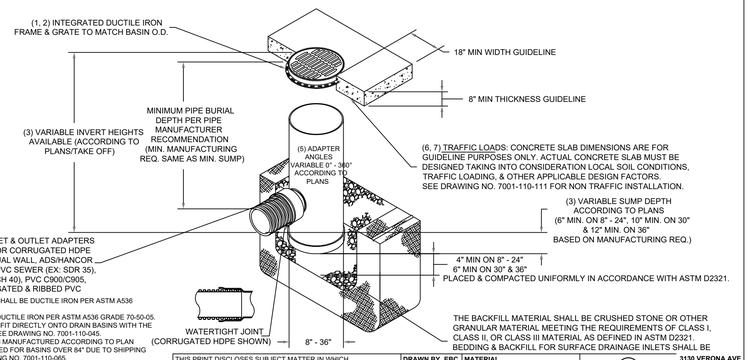
## NYLOPLAST DRAIN BASIN WITH STANDARD GRATE




1 - 8" - 30" STANDARD GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. 8" & 10" STANDARD GRATES FIT DIRECTLY ONTO DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 36").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
6 - 12" - 30" STANDARD GRATES SHALL MEET H-20 LOAD RATING.
7 - 8" & 10" STANDARD GRATES ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY; NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST. ©2011 NYLOPLAST DWG SIZE

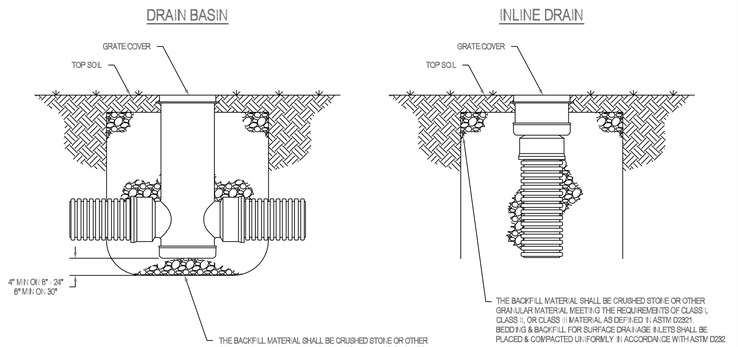
| | | | |
|---|---|---|---|
| DRAWN BY | EBC | MATERIAL | |
| DATE | 1-23-06 | | |
| REVISED BY | NMH | PROJECT NO./NAME | |
| DATE | 06-12-19 | | |
| A | | SCALE 1:40 | SHEET 1 OF 1 |

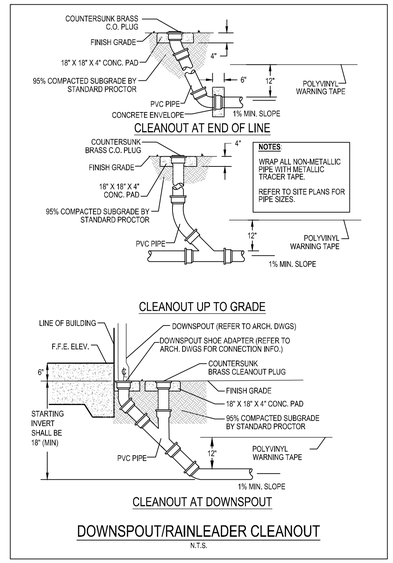
Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: DRAIN BASIN WITH STANDARD GRATE QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-144 REV J

## NON TRAFFIC INSTALLATION




## DOWNSPOUT/RAINLEADER CLEANOUT

N.T.S.

## CLASSES OF EMBEDMENT AND BACKFILL MATERIALS

| AASHTO M145 [1] (ASA A10.17) CLASS DESCRIPTION | | ASTM D2487 [2] DESCRIPTION | | AASHTO M43 [3] DESIGNATION | AASHTO T99 [4] METHOD | SIEVE SIZE | ASTM D2487 [2] (ASA A10.17) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | PERCENTAGE PASSING SIEVE SIZES | | | ATTERBERG LIMITS | | COEFFICIENTS | |
| | | | | | | | 1 1/2 in. (40mm) | 3/8" (9.5mm) | No. 4 (4.75mm) | NO. 200 (0.075mm) | LL | PI | Cu | Cc |
| I [5] | GRAVELS AND SANDS, ANGULAR | N/A | ANGULAR-GRAINED ROCK, OR RAPID, CRUSHED GRAVEL, OR CRUSHED SLAG, OR COARSE SAND WITH LITTLE OR NO FINES | N/A | N/A | | 100% | <30% | <10% | <3% | NON PLASTIC | | N/A | |
| II | CLEAN, COARSE-GRAINED SOILS | GW | WELL-GRADED GRAVEL, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES | 5, 6 | #57, 67 | #4, #8 | 100% | | | <50% AT HIGHEST FRACTION* | <20% | NON PLASTIC | >4 | 1 to 3 |
| | | GP | POORLY-GRADED GRAVEL, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES | | | | | | | | | | 4 - >1 or >6 | |
| | | SW | WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES | | | | | | | <50% AT HIGHEST FRACTION* | | | >6 | 1 to 3 |
| | | SP [6] | POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES | | | | | | | | | | >6 | >1 or <3 |
| | COARSE-GRAINED SOILS, SOIL-ROCK MIX, CLOSE TO WITHIN | GW-GC | WELL-GRADED GRAVEL-SAND MIXTURES WITH CLAY BINDER | N/A | | | 100% | | VARIES | 5% TO 12% | NON PLASTIC | | SAME AS FOR GW, GP, SW, AND SP | |
| | | GP-GC | POORLY-GRADED GRAVEL-SAND MIXTURES WITH CLAY BINDER | | | | | | | | | | | |
| II | COARSE-GRAINED SOILS WITH FINES | GM | SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES | GRAVEL & SAND WITH SILTY FINES | A-2-4, A-2-5, A-2-6, A-2-7, A-4, A-5, A-6, A-7-5, A-7-6 | 90% STD MAX. DENSITY, RETAINED ON #200 SIEVE | 100% | | | >50% PASSING #200 | >40% AT HIGHEST FRACTION* | 10-20% | >4 OR <+W LINE | |
| | | GC | CLAYEY GRAVELS, GRAVEL-CLAY MIXTURES | | | | | | | | | | >4 OR <+W LINE | |
| | | SM | SILTY SANDS, SAND-SILT MIXTURES | | | | | | | | | | >4 OR <+W LINE | |
| | | SC | CLAYEY SANDS, SAND-CLAY MIXTURES | | | | | | | | | | >4 OR <+W LINE | |
| III | INORGANIC FINE-GRAINED SOILS | ML | INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY | SILTY OR CLAY GRAVEL AND SAND | | | 100% | | | >50% PASSING #200 | <40% | 20-30% | >4 OR <+W LINE | N/A |
| | | CL | INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY, SANDY, OR SILTY CLAYS, LEAN CLAYS | | | | | | | | <40% | 30-40% | >7 & >+W LINE | |
| III | INORGANIC FINE-GRAINED SOILS | ML | INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY | | | | 100% | | | >50% PASSING #200 | <40% | 20-30% | >4 or <+W LINE | N/A |
| | | CL | INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY, SANDY, OR SILTY CLAYS, LEAN CLAYS | | | | | | | | <40% | 30-40% | >7 & >+W LINE | |
| IV [6] | INORGANIC FINE-GRAINED SOILS | MH | INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS, ELASTIC SILTS | N/A | A3, A7 | | 100% | | | >50% PASSING #200 | >40% | 40-60% | <+W LINE | N/A |
| | | CH | INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS | N/A | | | | | | | | | <+W LINE | |
| | | CL | INORGANIC SILTS AND CLAYS OF LOW PLASTICITY | N/A | | | | | | | >40 | 60-80 | <+W OR <+W LINE | |
| | ORGANIC SOILS OF HIGH COMPRESSIBILITY | OH | ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS | N/A | | | 100% | | | 100% | >40 | 60-80 | <+W LINE | N/A |
| | | PT | PEAT AND OTHER HIGHLY ORGANIC SOILS | N/A | | | | | | | | | | |

NOTES:
1. REFER TO ASTM D2487 / D2488 FOR MORE COMPLETE SOIL DESCRIPTIONS.
2. CLASS I SIEVE SIZES ALLOW FOR A GRADATION MADE UP FROM TWO PREVIOUS VERSIONS OF D2487 / D2488 TO WHICH SPECIFYING AGENCIES MAY REFER. THE