

#### <u> EROSION CONTROL SEQUENCE</u>

MEASURES SHALL BE TAKEN TO PREVENT SOIL EROSION DURING PROJECT CONSTRUCTION. ALL FRESHLY DISTURBED AREAS THAT WILL REMAIN DISTURBED FOR MORE THAN A PERIOD OF FOURTEEN (14) DAYS SHALL BE STABILIZED BY TEMPORARY SEEDING AS INDICATED ON THE TEMPORARY SEEDING SCHEDULE. DISTURBED AREAS SHALL BE MINIMAL IN SIZE AND SHALL NOT EXCEED THE APPROVED CLEARING AND GRADING LIMITS. THE FOLLOWING MEASURES SHALL BE IMPLEMENTED AS CONSTRUCTION PROGRESSES.

- A. PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, THE LIMITS OF CLEARING AND GRADING SHALL BE MARKED. FILTER FABRIC SEDIMENTATION BARRIERS (SILT FENCE) SHALL BE PLACED ALONG THE DOWNGRADE PERIMETER OF THE SITE AND ANY OTHER AREAS WHERE SILT FENCE IS INDICATED AS TO BE INSTALLED "PRIOR TO CONSTRUCTION" ON THE APPROVED PLANS. INSTALLATION IS TO BEGIN AT THE DOWNSTREAM PORTIONS OF THE SITE THEN WORKING UPSTREAM.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE BUILT IN THE AREAS SHOWN ON THE APPROVED PLANS AND WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PUBLIC THROUGHFARE. STABILIZED ENTRANCES SHALL BE BUILT IN ACCORDANCE WITH THE STABILIZED CONSTRUCTION ENTRANCE DETAIL.
- UPON COMPLETION OF CLEARING AND GRUBBING ACTIVITIES, TOPSOIL SHALL BE STRIPPED AND STOCKPILED FROM ALL AREAS TO BE DISTURBED. STOCKPILED TOPSOIL SHALL BE STABILIZED BY TEMPORARY SEEDING AND SURROUNDED WITH A PERIMETER SILT FENCE.
- D. TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMMENCING EARTH MOVING ACTIVITIES. THIS INCLUDES SEDIMENTATION TRAPS, TYPE "B" DIVERSION SWALES (WITH CHECK DAMS IF APPLICABLE) AND SILT FENCE IN AREAS NOT DESIGNATED TO BE GRADED. INSTALLATION SHALL BEGIN AT DOWNSTREAM PORTIONS OF THE SITE THEN WORKING UPSTREAM. INFILTRATION AND FILTERING PRACTICES, SUCH AS SAND FILTERS AND BIORETENTION PONDS SHALL NOT HAVE INFILTRATION AND FILTER MEDIA INSTALLED UNTILL ALL TRIBUTARY AREAS HAVE BEEN SUBSTANTIALLY STABILIZED.
- IMMEDIATELY AFTER COMPLETION OF ROUGH GRADING, REMAINING TEMPORARY EROSION CONTROL SHALL BE INSTALLED AS SPECIFIED ON THE APPROVED PLANS. THIS INCLUDES ANY REMAINING SILT FENCE AND TYPE "A" DIVERSION SWALES (WITH CHECK DAMS IF APPLICABLE). AREAS NOT REQUIRING FURTHER EARTHWORK SHALL BE FINE GRADED, TOPSOILED, AND STABILIZED AS EARLY AS POSSIBLE.
- ANY PROPOSED STORM DRAINAGE SHALL BE INSTALLED AND INCORPORATED INTO EROSION CONTROL AS SPECIFIED ON THE APPROVED PLANS. STORM DRAINAGE COMPONENTS SHALL BE PROTECTED FROM SILTATION AS
- G. UPON COMPLETION OF CONSTRUCTION ACTIVITES, REMAINING AREAS SHALL BE FINE GRADED, TOPSOILED, AND STABILIZED. PERMANENT VEGETATION AND LANDSCAPING SHALL BE ESTABILISHED
- TEMPORARY EROSION CONTROL DEVICES SHALL BE REMOVED ONCE UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED. REMOVAL OF TEMPORARY EROSION CONTROL DEVICES SHALL BEGIN WITH THE MOST UPSTREAM PORTIONS OF THE SITE THEN WORKING DOWNSTREAM.
- ALL NEWLY SEEDED VEGETATIVE COVER SHALL BE MAINTAINED. WASHOUTS OR POORLY GROWING AREAS SHALL BE CORRECTED AS THEY OCCUR.

# <u>GENERAL EROSION CONTROL NOTES</u>

- FILTER FABRIC IS TO BE MIRAFI 140 AS MANUFACTURED BY THE CELANESE CORPORATION OR APPROVED EQUAL.
- WHEREVER FEASIBLE, NATURAL VEGETATION SHOULD BE RETAINED AND PROTECTED. ONLY THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHALL BE KEPT TO THE SHORTEST PRACTICAL
- . ALL WORK SHALL BE IN ACCORDANCE WITH ALL OF THE ATTACHED DRAWINGS.

#### <u>MAINTENANCE REQUIREMENTS</u>

- 1. THE MAINTENANCE OF EROSION CONTROL DEVICES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE JOB SUPERINTENDENT WILL MONITOR THE CONDITION OF ALL THE DEVICES, CLEAN AND REPLACE STRUCTURES AS CLIMATIC CONDITIONS REQUIRE, THE DEVELOPER WILL ALSO BE SUBJECT TO THE DIRECTIVE OF THE DESIGN ENGINEER AND TOWN REPRESENTATIVES TO INCLUDE TOWN ENGINEER, HIGHWAY SUPERINTENDENT AND BUILDING
- 2. GENERAL CONTRACTOR AND ALL CONTRACTORS SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE APPROVED PLANS AND MAY BE SUBJECT TO ADDITIONAL EROSION CONTROL REQUIREMENTS AS CONDITIONS MAY
- ARISE IN THE FIELD OR AS DIRECTED BY THE DESIGN ENGINEER. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES IN ACCORDANCE WITH THE APPROVED PLANS. MANUFACTURER'S RECOMMENDATIONS, AS DIRECTED BY THE DESIGN ENGINEER AND TOWN REPRESENTATIVES
- INCLUDING TOWN ENGINEER, HIGHWAY SUPERINTENDENT AND BUILDING INSPECTOR. NO EROSION CONTROL STRUCTURES SHALL BE REMOVED UNTIL ALL WORK UPSTREAM THEREFROM HAS BEEN
- COMPLETED. INCLUDING STABILIZATION AND APPROVED BY THE DESIGN ENGINEER AND TOWN REPRESENTATIVES. CONSTRUCTION ACTIVITIES TO BE LIMITED TO THE PERIOD OF 7:00 AM TO 7:00 PM.
- ALL CONSTRUCTION EQUIPMENT SHALL HAVE PROPERLY SIZED MAINTAINED MUFFLERS ALL CONSTRUCTION EQUIPMENT SHALL BE TURNED OFF WHEN NOT IN USE.

#### <u>SLOPE STABILIZATION, SEEDING METHOD & MULCHING</u>

SLOPES SHALL BE HYDROSEEDED WITH THE MIXTURES AND RATES INDICATED IN THE PERMANENT SEEDING MIXTURE SCHEDULE. STRAW OR HAY MULCH SHALL BE APPLIED AT A RATE OF 2000 LBS/ACRE. STRAW OR HAY MUI CH SHALL BE ANCHORED WITH BIOD-Mesh60 NETTING AS MANUFACTURED BY ROLANKA INTERNATIONAL

GENTLE SLOPES AND FLAT AREAS

- AREAS SHALL BE SEEDED BY HYDROSEEDING OR BROADCASTING WITH THE MIXTURES AND RATES INDICATED ON THE PERMANENT SEEDING MIXTURE AND RATES INDICATED ON THE PERMANENT SEEDING MIXTURE SCHEDULE. HYDROSEEDED AREAS SHALL BE MULCHED WITH A WOOD FIBER MULCH APPLIED AT A RATE OF 500 LBS/ACRES. BROADCAST AREAS SHALL BE MULCHED WITH HAY OR STRAW AT A RATE OF 2000 LBS/ACRE. AREAS SEEDED

OR APPROVED EQUIVALENT. NETTING TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS,

BY BROADCASTING SHALL BE LIGHTLY RAKED AND PACKED PRIOR TO PLACING MULCH.

## STREAMS, DRAINAGE SWALES AND EMBANKMENTS

- ALL CONSTRUCTION ACTIVITIES IN OR EXISTING AROUND DRAINAGE SWALES OR WETLANDS ARE TO BE PROVIDED WITH TEMPORARY EROSIION CONTROL STRUCTURES AS SHOWN IN DETAIL, LOCATED IMMEDIATELY DOWNSTREAM FROM SUCH ACTIVITY. THESE STRUCTURES ARE TO BE IN PLACE AS SHOWN PRIOR TO THE START OF ANY
- UPSTREAM CONSTRUCTION ACTIVITY. CONSTRUCTION EQUIPMENT SHALL NOT UNNECESSARILY CROSS LIVE STREAMS OR DRAINAGE SWALES EXCEPT BY MEANS OF BRIDGES AND CULVERTS OR OTHER APPROVED METHODS.
- ALL EMBANKMENTS TO BE GRADED AND SEEDED IMMEDIATELY UPON BEING LAID BACK. STABILIZATION OF THE SWALES WILL INCLUDE SEEDING AND STRAW MULCH ON SLOPES LESS THAN 5% AND
- JUTE NETTING OR EQUAL ON SLOPES EXCEEDING 5%. TOPSOIL AND/OR EARTH STOCKPILE SHALL BE LOCATED OUTSIDE OF EXISTING DRAINAGE SWALES, WETLANDS
- AND ADJACENT AREAS. SILT FENCE WILL BE PLACED ALONG THE TOE OF THE PILES AND PILES SHALL RECEIVE

# SOIL RESTORATION NOTE:

TO INCREASE INFILTRATION OF STORM WATER AND IMPROVE DIRECT GROUNDWATER RECHARGE FROM RAIN EVENTS, SOIL RESTORATION PRACTICES, AS OUTLINED IN CHAPTER 5.1.6 OF THE NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL, SHOULD BE APPLIED TO THE SITE. AERATION AND DEEP RIPPING PROCEDURES SHALL BE AS DESCRIBED IN APPENDIX 8 OF SWPPP, AND SHALL BE APPLIED TO ALL FLAT TO MODERATELY SLOPED AREAS OF SOIL DISTURBANCE WHICH ARE PROPOSED TO REMAIN PERVIOUS.

## SEEDBED PREPARATION & AMENDMENTS

## MODERATE TO STEEP SLOPES AND LOW MAINTENANCE AREAS

-SCARIFY SOIL TO DEPTH OF 4" TO 6" IF COMPACTED.

-REMOVED LARGE STONES AND STUMPS ALLOWING ROCKS, ROOTS CLODS AND OTHER NATURAL DEBRIS TO REMAIN.

-ROUGHEN SLOPE FACES BY MAKING GROVES 2"-3" DEEP, PERPENDICULAR TO THE SLOPE WITH DISK OR YORK RAKE.

-LIME AS REQUIRED TO ACHIEVE A pH OF 6.0. -FERTILIZE AT A RATE OF 600 LBS/ACRE OF 5-10-10 FERTILIZER OR

AS RECOMMENDED BY SOIL TESTS.

-INCORPORATE LIME AND FERTILIZER INTO TOP 4" OF SOIL BY ROUGHENING. GENERAL RECREATION AREAS AND LAWNS

-PLACE TOPSOIL TO A MINIMUM DEPTH OF 4"

-SCARIFY SOIL TO A DEPTH OF 4"-6" IF COMPACTED -REMOVE ALL STONES OVER 1" IN DIAMETER, STICKS AND FOREIGN MATTER FROM THE SURFACE.

-LIME AS REQUIRED TO ACHIEVE A pH OF 6.5. -FERTILIZE AT A RATE OF 850 LBS/ACRE OF 5-10-10 OR EQUIVALENT

FERTILIZER OR AS RECOMMENDED BY SOIL TESTS. -INCORPORATE LIME AND FERTILIZER INTO TOP 2"-4" OF TOPSOIL. -SMOOTH AND FIRM THE SEEDBED.

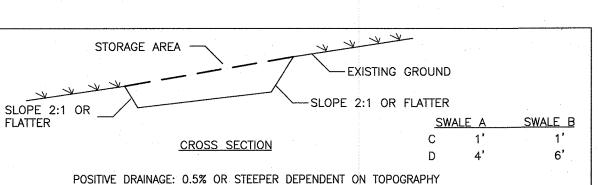
## TEMPORARY SEEDING SPECIFICATIONS

-SCARIFY SOILS IF COMPACTED -LIME TO pH OF 6.0 IF REQUIRED

-FERTILIZE WITH 600 LBS/ACRE 5-10-10 FERTILIZER IF REQ.. -SEED WITH SPECIES AND RATE SHOWN BELOW -MULCH WITH HAY OR STRAW AT A RATE OF 2000 LBS/ACRE ANCHOR MULCH WITH NETTING OF WOOD FIBER OR JUTE IF STEEP SLOPE OR HIGH POTENTIAL FOR EROSION.

RYEGRASS (ANNUAL OR PERENNIAL) (USE WINTER RYE IF SEEDING IN OCT./NOV.)

APPLICATION RATE 30 LBS/ACRE (0.7 LBS/1000 SF)



 $\overline{\phantom{a}}$ 

PLAN VIEW

# CONSTRUCTION SPECIFICATIONS

- 1. ALL TEMPORARY SWALES SHALL HAVE UNINTERUPTED POSITIVE GRADE TO AN OUTLET. 2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT
- 3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
- 4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER
- 5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
- 6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.

OUTLET AS REQUIRED

SEE ITEM 8 BELOW.

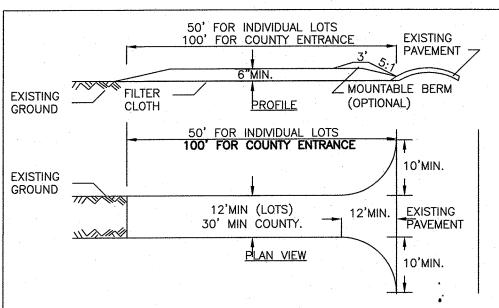
7. ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE. 8. STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

TREATMENT	GRADE	A(5 AC. OR LESS)	B(5 AC -10AC)
1	0.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSION
.3	5.1-8.0%	SEED WITH JUTE OR EXCELSIOR, SOL	LINED WITH 4-8" RIP-RAP OR RECYCLED CONCRETE EQUIVALE
4	8.1-20.%	LINED WITH 4-8" RIP-RAP	ENGINEERED DESIGN

9. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

TEMPORARY SWALE

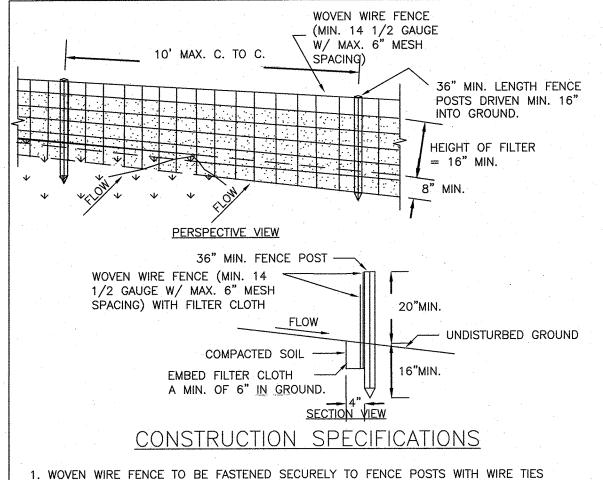


# CONSTRUCTION SPECIFICATIONS

- 1. STONE SIZE USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT. 2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES. 4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- 5. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING
- 6. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CON-STRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY
- 8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH

U.S. DEPARTMENT OF AGRICULTURE	
NATURAL RESOURCES CONSERVATION SERVICE	
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION	
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE	

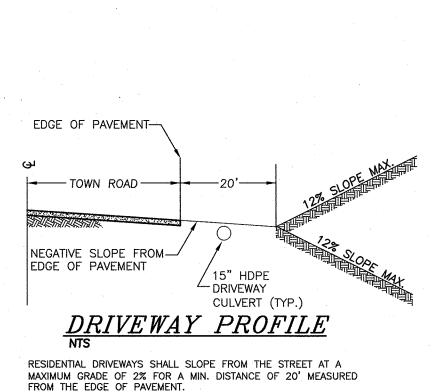
STABILIZED CONSTRUCTION **ENTRANCE** 

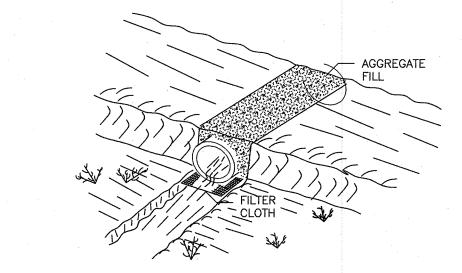


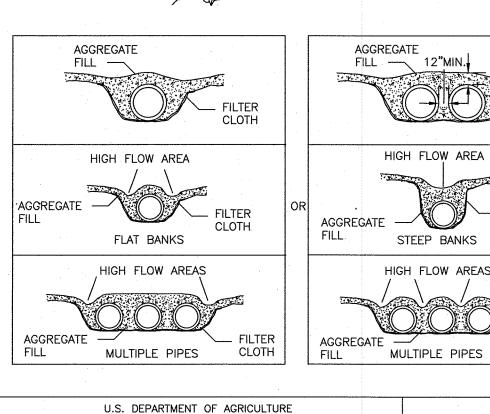
- OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD. 2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE
- FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-
- LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
- 4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

SILT FENCE







NATURAL RESOURCES CONSERVATION SERVICE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

APPLICATION RATE

APPLICATION RATE

85-114 LBS/ACRE

26-35 LBS/ACRE

19-26 LBS/ACRE

114-143 LBS/ACRE

105-138 LBS/ACRE

25-37 LBS/ACRE

60-91 LBS/ACRE

25-39 LBS/ACRE

26-33 LBS/ACRE

35-44 LBS/ACRE

8 LBS/ACRE

5 LBS/ACRE

20 LBS/ACRE

PERMANENT SEEDING MIXTURES

GENERAL RECREATION AREAS AND LAWNS

EMPIRE BIRDSFOOT TREFOIL

65% KENTUCKY BLUEGRASS BLEND

20% PERENNIAL RYEGRASS

15% PERENNIAL RYEGRASS

20% KENTUCKY BLUEGRASS BLEND

80% SHADE TOLERANT KENTUCKY

80% SHADE TOLERANT KENTUCKY

BLUEGRASS BLEND

BLUEGRASS BLEND

20% PERENNIAL RYEGRASS

70% ROUGH BLUEGRASS

.

15% FINE FESCUE

65% FINE FESCUE

TALL FESCUE

MODERATE TO STEEP SLOPES AND LOW MAINTENANCE AREAS

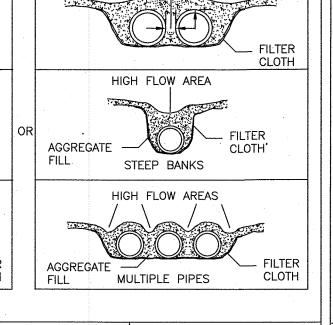
SUNNY SITES (WELL, MODERATELY WELL AND SOMEWHAT POORLY

SUNNY DROUGHTY SITES (SOMEWHAT EXCESSIVELY TO EXCESSIVELY

SHADY DRY SITES (WELL TO SOMEWHAT POORLY DRAINED SOILS)

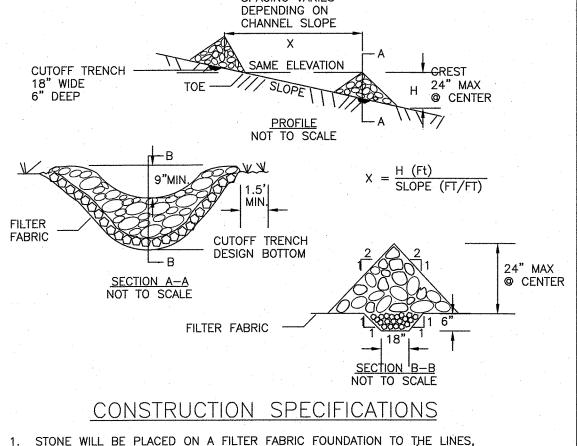
SHADY WET SITES (SOMEWHAT POOR TO POORLY DRAINED SOILS)

DRAINED SOILS)



EMPORARY ACCESS

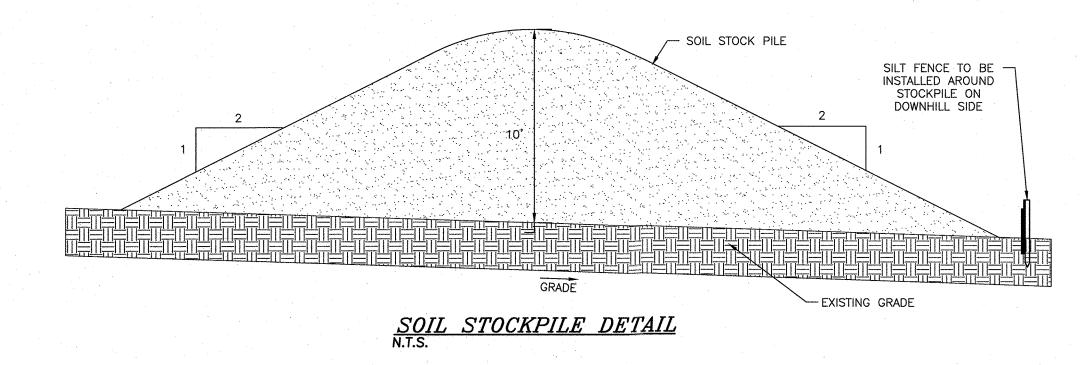
CULVERT

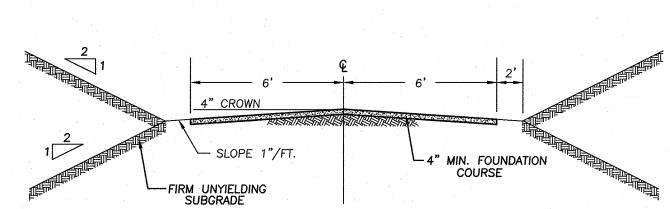


- GRADES AND LOCATIONS SHOWN IN THE PLAN. 2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE
- EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
- PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

MAXIMUM DRAINAGE AREA 2 ACRES. U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

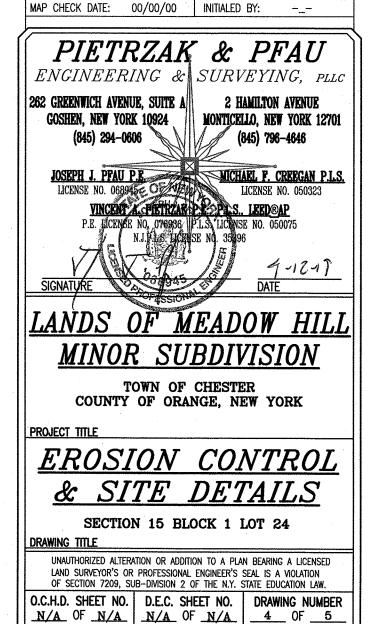
CHECK DAM NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE





DRIVEWAY CROSS SECTION

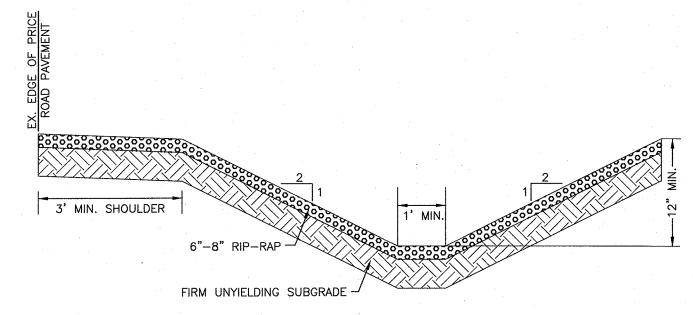
RESERVED FOR TOWN OF CHESTER PLANNING BOARD APPROVAL



CAD REFERENCE | PROJECT NUMBER 18121-WORK-4-11-19 18121.01

4-12-19 UPDATE PLAN AS PER WL CONST. SOILS TESTS JJP

)—10—18 SKETCH PLAN PREPARATION DATE



ROAD SWALE DETAIL

		SOIL TEST RESULTS &	& SEPTIC SYSTEM DE	SIGN	
LOT #	DEEP TEST PIT #1 RESULTS	DEEP TEST PIT #2 RESULTS	WITNESSED DEEP TEST PIT RESULTS	PERC RATE	SEPTIC SYSTEM DESIGN
1	0"-10" TOPSOIL 10"-34" LIGHT BROWN SILTY LOAM WITH LARGE STONES 34"-72" SANDY LOAM WITH LARGE STONES SEEPAGE @ 68" NO BEDROCK	0"-8" TOPSOIL 8"-36" LIGHT BROWN SILTY LOAM WITH GRAVEL 36"-76" SANDY LOAM WITH GRAVEL  SEEPAGE @ 74" NO BEDROCK		PT1: 5 MIN. DEPTH: 24" PT2: 4 MIN. DEPTH: 24"	ELJEN SEPTIC DESIGNED FOR:  4 BEDROOM MAXIMUM (Q = 475 GAL/DAY)  REQUIRED: 66 L.F. TOTAL  DESIGNED: 4 LATERALS @ 20', 80 L.F. TOTAL  SEPTIC TANK SIZE: 1,250 GALLONS
2	0"-10" TOPSOIL 10"-42" LIGHT BROWN SILTY LOAM WITH GRAVEL AND LARGE STONES 42"-70" SAND WITH TRACE GRAVEL NO MOTTLING, NO BEDROCK, NO GROUNDWATER	0"-8" TOPSOIL 8"-36" LIGHT BROWN SILTY LOAM WITH LARGE STONES 36"-70" COARSE SAND WITH PEA GRAVEL NO MOTTLING, NO BEDROCK, NO GROUNDWATER		PT1: 5 MIN. DEPTH: 24" PT2: 5 MIN. DEPTH: 24"	ELJEN SEPTIC DESIGNED FOR:  4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 66 L.F. TOTAL DESIGNED: 4 LATERALS @ 20', 80 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS
3	0"-8" TOPSOIL 6"-50" LIGHT BROWN SILTY LOAM WITH LARGE STONES 50"-72" COARSE SAND NO MOTTLING, NO BEDROCK, NO GROUNDWATER	0"-6" TOPSOIL 6"-46" LIGHT BROWN SILTY LOAM WITH GRAVEL AND LARGE STONES 46"-68" COARSE SAND WITH SOME LARGE STONES NO MOTTLING, NO BEDROCK, NO GROUNDWATER		PT1: 8 MIN. DEPTH: 24" PT2: 8 MIN. DEPTH: 24"	ELJEN SEPTIC DESIGNED FOR: 4 BEDROOM MAXIMUM (Q = 475 GAL/DAY) REQUIRED: 88 L.F. TOTAL DESIGNED: 4 LATERALS @ 28', 112 L.F. TOTAL SEPTIC TANK SIZE: 1,250 GALLONS

SOIL TESTING AND SEPTIC SYSTEM DESIGN NOTES:

1. PERCOLATION TESTS WERE PERFORMED BY PIETRZAK & PFAU, PLLC ON 4-11-19.

- PERCOLATION TESTS WERE PERFORMED AT A DEPTH OF 24" UNLESS NOTED OTHERWISE. DEEP TEST PITS WERE WITNESSED BY PIETRZAK & PFAU, PLLC ON 4-11-19.
- SEPTIC SYSTEM DESIGN BASED ON 110 GALLONS PER BEDROOM PER DAY. SEPTIC SYSTEM DESIGN FOR 4 BEDROOM MAXIMUM DWELLING UNLESS NOTED OTHERWISE.
- ALL SEPTIC SYSTEM DESIGNS INCLUDE 35 GALLONS PER DAY OF BACKWASH FOR THE OPTIONAL WATER
- SOFTENER, MAKING A TOTAL DISCHARGE OF 475 GALLONS PER DAY. SURFACE WATER DIVERSION SWALES ARE REQUIRED ON ALL LOTS.

#### GENERAL NOTES - SEWAGE SYSTEMS

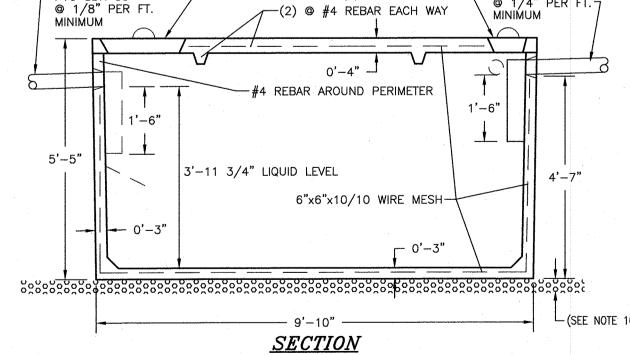
- 1. SEPTIC SYSTEMS TO CONFORM TO THE MINIMUM REQUIREMENTS OF THE N.Y.S. HEALTH DEPARTMENT STANDARDS/CODES FOR INDIVIDUAL DISPOSAL SYSTEMS, APPENDIX 75-A, AND THE AUTHORITY HAVING JURISDICTION.
- . THE SANITARY FACILITIES ON THESE PLANS SHALL BE INSPECTED FOR COMPLIANCE, WITH THE APPROVED PLANS, AT THE TIME OF CONSTRUCTION. BY A LICENSED PROFESSIONAL ENGINEER. WRITTEN CERTIFICATION TO THAT EFFECT SHALL BE SUBMITTED TO THE COUNTY HEALTH DEPARTMENT AND THE LOCAL BUILDING CODE ENFORCEMENT OFFICER PRIOR TO OCCUPANCY, AND SHALL INDICATE THAT ANY JOINTS HAVE BEEN SEALED AND TESTED FOR WATER TIGHTNESS AND THAT THE TANK IS INSTALLED IN ACCORDANCE WITH APPENDIX 75-A AND THE MANUFACTURERS INSTRUCTIONS
- 3. SEPTIC FIELDS AND WELLS SHALL NOT BE RELOCATED 4. ALL PERCOLATION TESTS TAKEN AT 24" - 30" UNLESS OTHERWISE NOTED.
- 5. SEPTIC SYSTEM DESIGNS ARE BASED ON THE SLOWEST PERCOLATION RATE
- FOUND WITHIN THE AREA OF THE SYSTEM. 6. LAUNDRY WASTE IS TO BE DISCHARGED INTO THE SEPTIC SYSTEM. 7. HOUSE SEWER AND SEWER RUNS SHALL NOT EXCEED 75' BETWEEN POINTS OF POSSIBLE CLEANOUT. AT LEAST ONE CLEANOUT IS TO BE PROVIDED. BENDS ARE TO BE AVOIDED BUT WHERE REQUIRED AN ADDITIONAL CLEANOUT SHALL BE
- 8. THE MAXIMUM LENGTH OF ABSORPTION LINES USED IN CONJUNCTION WITH
- GRAVITY DISTRIBUTION SHALL BE 60 FEET. 9. FOOTING DRAINS ARE NOT TO DISCHARGE INTO THE SEPTIC SYSTEM. FOOTING
- DRAINS ARE TO RUN TO DAYLIGHT WITH RODENT SCREEN. 10. UNLESS OTHERWISE INDICATED ON THESE PLANS, INDIVIDUAL SEPTIC TANKS ARE NOT DESIGNED TO ACCOMMODATE GARBAGE GRINDERS.
- . TRENCHES SHALL NOT BE CONSTRUCTED IN WET SOILS 12. SIDES AND BOTTOM OF TRENCHES SHALL BE RAKED IMMEDIATELY PRIOR TO
- PLACING SAND. 13. THE END OF ALL DISTRIBUTOR PIPES SHALL BE PLUGGED. 14. HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE TILE FIELD EXCEPT FOR THE ACTUAL CONSTRUCTION OF THE FIELD. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE AREA OF THE PROPOSED FIELD BEFORE, DURING AND AFTER CONSTRUCTION. EXTREME CARE MUST BE TAKEN DURING THE ACTUAL CONSTRUCTION SO AS TO AVOID ANY
- UNDUE COMPACTION THAT COULD RESULT IN A CHANGE OF THE ABSORPTION CAPACITY OF THE SOIL ON WHICH THE DESIGN WAS BASED. 15. THERE IS NO REGRADING ALLOWED IN THE AREA OF THE ABSORPTION FIELD. 16. NO SWIMMING POOLS, DRIVEWAYS, OR STRUCTURES WHICH MAY COMPACT THE
- 17. THIS SYSTEM WAS NOT DESIGNED TO ACCOMMODATE GARBAGE GRINDERS, OR "JACUZZI" TYPE SPA TUBS OVER 100 GALLONS. AS SUCH, THESE ITEMS SHALL NOT BE INSTALLED UNLESS THE SDS IS REDESIGNED TO ACCOUNT FOR THEM AND REAPPROVED BY THE ORANGE COUNTY DEPARTMENT OF HEALTH.

SOIL SHALL BE LOCATED OVER ANY PORTION OF THE ABSORPTION FIELD

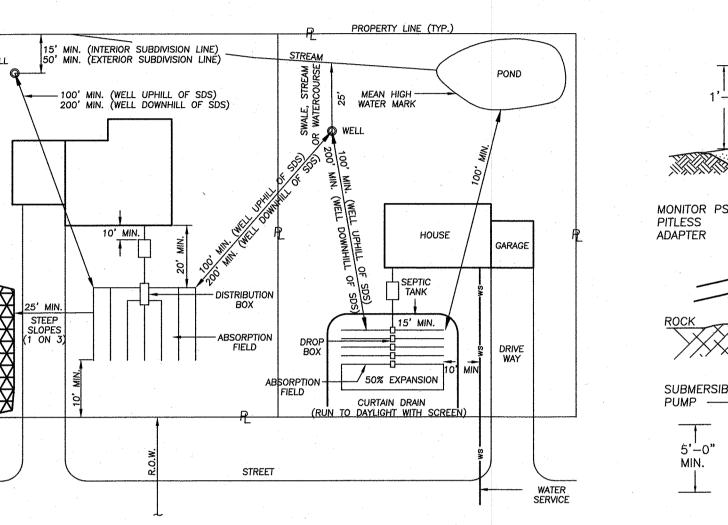
18. THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK. (OR ANY PUMPING OR DOSING CHAMBER) TO THE HOUSE, ALLOWING SEPTIC GASES TO DISCHARGE THROUGH THE STACK VENT.

## GENERAL NOTES - WATER SYSTEMS

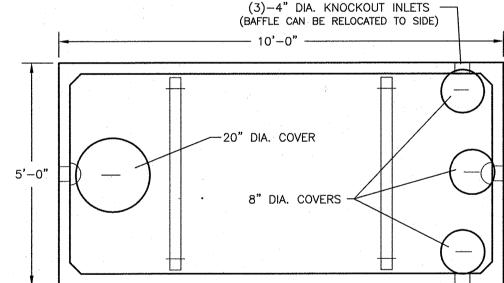
- 1. WELL CONSTRUCTION SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE N.Y.S. HEALTH DEPARTMENT STANDARDS. 2. TREATMENT FOR HARDNESS SHOULD BE CONSIDERED ONLY IF EXCESSIVE HARDNESS IS FOUND (GREATER THAN 150 MG/L).
- 3. THE DESIGN AND LOCATION OF SANITARY FACILITIES (WATER AND SEWER SYSTEMS) SHALL NOT BE CHANGED.
- 4. FOOTING DRAINS WITHIN 25 FEET OF A WELL MUST BE WATERTIGHT. 5. WELLS ARE TO BE INSTALLED 100 FEET FROM ANY SEPTIC SYSTEM, AND 200
- FEET FROM ANY SEPTIC SYSTEM UPHILL FROM THE WELL
- WELL CASING IS TO BE INSTALLED 10 FEET INTO IMPERVIOUS BEDROCK. NEW YORK STATE SANITARY CODE, PART 5, APPENDIX 5-B REQUIRES A 50% INCREASE IN SEPARATION DISTANCES OR 50' MINIMUM WELL CASING IF AQUIFER WATER ENTERS THE WELL LESS THAN 50' BELOW GRADE.



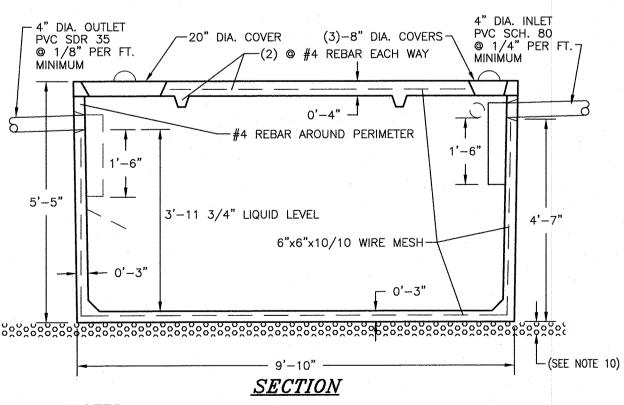
- BUILDING SEWER TO BE SCHEDULE 80 PVC.
- FROM BUILDING FOUNDATION.
- SEPTIC TANK TO BE COVERED WITH EARTH TO A MINIMUM DEPTH
- PRECAST CONCRETE TO REACH 4000 PSI STRENGTH @ 28 DAYS.
- BASE CEMENT.
- INLET AND OUTLET JOINTS TO BE SEALED WITH PORTLAND
- WOODARD'S CONCRETE PRODUCTS, INC. MODEL ST1250 OR EQUAL.
- 10. 3" MINIMUM OF SAND, PEA GRAVEL OR TRENCH AGGREGATE FOR BEDDING. 11. SEPTIC TANKS SHOULD BE INSPECTED PERIODICALLY AND PUMPED



TYPICAL SEPARATION DISTANCE REQUIREMENTS

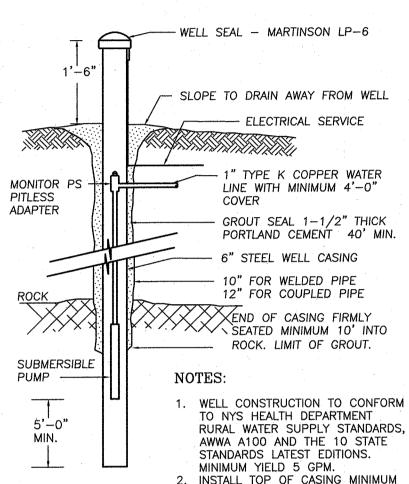






- SEPTIC TANK TO BE INSTALLED A MINIMUM OF TEN (10) FEET
- LOCATION STAKE TO BE SET IN GROUND DIRECTLY ABOVE THE
- OF 6" AND A MAXIMUM DEPTH OF 12".
- TANK CONSTRUCTION JOINTS TO BE SEALED WITH BUTYL RUBBER
- INLET INVERT TO BE 3" HIGHER THAN OUTLET INVERT.
- PRECAST CONCRETE SEPTIC TANK TO BE AS MANUFACTURED BY

1,250 GALLON SEPTIC TANK DETAIL



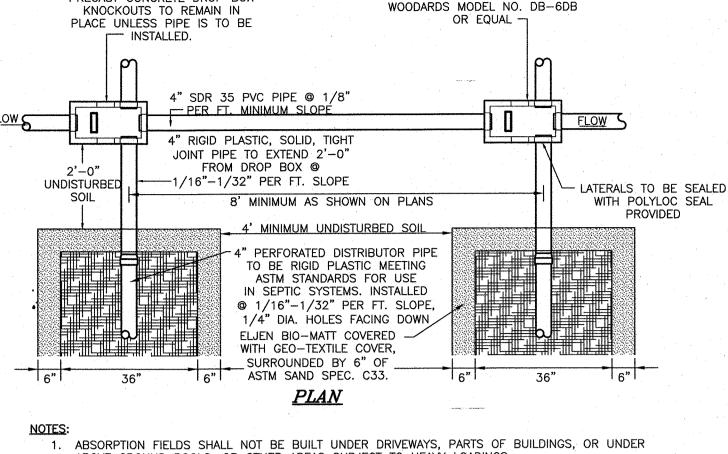
-GAS DEFLECTOR

(DEFLECTOR ON OUTLET ONLY)

2. INSTALL TOP OF CASING MINIMUM 24" ABOVE THE 100 YEAR FLOOD ANTICIPATED DEPTHS OF WELL CASINGS ARE 40' AND THROUGH BEDROCK. 4. DIAMETER OF DRILL HOLES TO BE 10"-12" THROUGH OVERBURDEN, AND 6" THROUGH ROCK. 5. IF WATER IS ENCOUNTERED AT DEPTH OF LESS THAN 50 FEET,

THE MINIMUM CASING AND

REQUIREMENT SHALL BE 50 FEET.



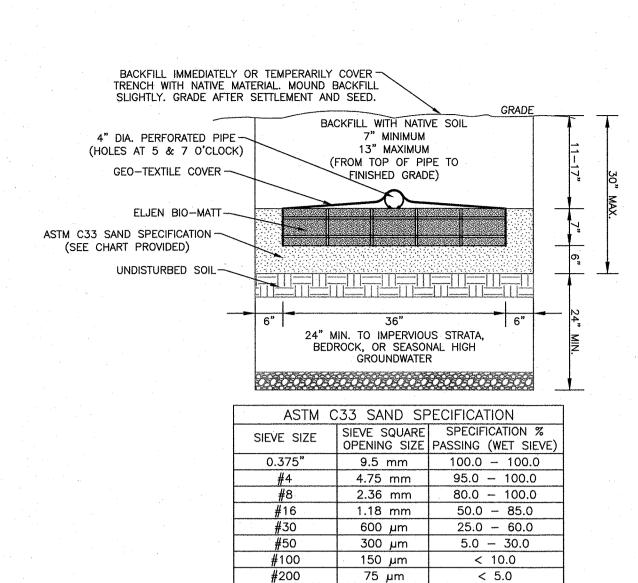
PRECAST CONCRETE DROP BOX

ABOVE GROUND POOLS, OR OTHER AREAS SUBJECT TO HEAVY LOADINGS. THE SAND BEDDING SHALL BE COVERED WITH THE GEOTEXTILE FABRIC PROVIDED WITH EACH UNIT

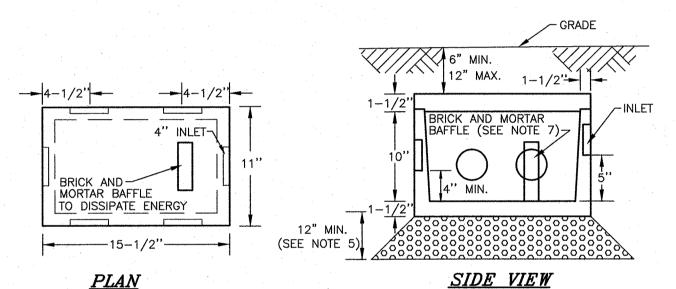
- TRENCHES SHALL NOT BE CONSTRUCTED IN WET SOIL SIDES AND BOTTOM OF TRENCH SHALL BE RAKED IMMEDIATELY PRIOR TO PLACING SAND. THE END OF ALL DISTRIBUTOR PIPES SHALL BE PLUGGED. HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE FIELD EXCEPT FOR ACTUAL CONSTRUCTION OF TEH FIELD. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION
- EQUIPMENT IN THE AREA OF THE PROPOSED FIELD, BEFORE OR AFTER CONSTRUCTION. DISTRIBUTION LATERALS SHALL BE SLOPED AT 1/16"-1/32" PER FOOT. ABSORPTION TRENCH BOTTOM TO BE SET LEVEL. 9. DISTRIBUTION LATERALS ARE TO BE SET WITH PERFORATIONS FACING DOWN.

PRECAST CONCRETE DROP BOX

ELJEN IN-DRAIN SYSTEM DROP BOX/ABSORPTION TRENCH DETAIL



ELJEN IN-DRAIN CROSS SECTION DETAIL



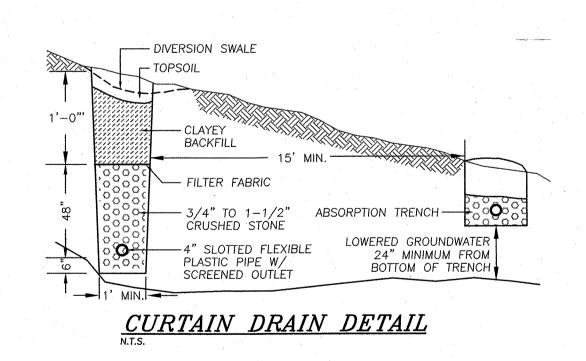
1. DROP BOX TO BE AS MANUFACTURED BY WOODARD'S CONCRETE PRODUCTS, INC. MODEL NO. DB-6DB OR APPROVED EQUAL.

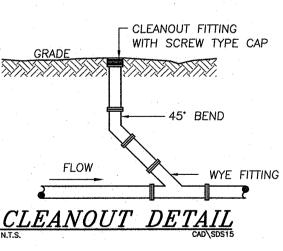
2. CONCRETE TO TEST 4,000 PSI AT 28 DAYS.

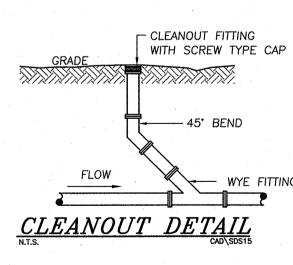
3. ALL OUTLETS NOT USED SHALL REMAIN PLUGGED. 4. BOX TO BE INSTALLED WITH A MIN. 6" AND MAX. 12" EARTH COVER. 5. BOX TO BE INSTALLED ON 12" MIN OF SAND, PEA GRAVEL, OR TRENCH AGGREGATE. 6. PIPE JOINTS TO BE SEALED WITH POLYLOK SEAL OR EQUAL.

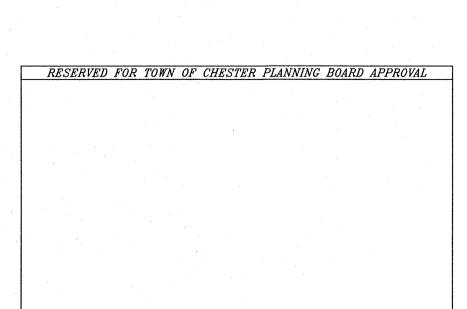
5-OUTLET DROP BOX DETAIL

7. BRICK AND MORTAR BAFFLE TO BE INSTALLED IN THE CENTER, FOUR (4) INCHES FROM











4-12-19 UPDATE PLAN AS PER WL CONST. SOILS TESTS

10-10-18 SKETCH PLAN PREPARATION DATE



BEFORE YOU DIG, DRILL OR BLAST!

-CALL TOLL FREE 1-800-962-7962 -NY INDUSTRIAL CODE RULE 753 REQUIRES NO LESS THAN TWO WORKING DAYS NOTICE, BUT NOT MORE THAN TEN DAYS NOTICE. -UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NYS EDUCATION LAW. -THIS DRAWING IS ONE IN A SET OF DRAWINGS AND IS

INCOMPLETE AND INVALID WHEN IT IS SEPARATED FROM THE SET.

EVERY 2-3 YEARS.