EROSION AND SEDIMENTATION CONTROL NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE NYSDEC WATER QUALITY CERTIFICATION AND/OR FRESH WATER WETLANDS AND/OR CORPS OF ENGINEERS PERMIT, IF APPLICABLE.
2. THE CONTRACTOR SHALL COMPLY WITH NYSDEC SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY (GP-0-10-001) AND THE STORMWATER POLLUTION PREVENTION PLAN ESTABLISHED FOR THE PROJECT.
3. UTILIZE CONSTRUCTION METHODS/TECHNIQUES, WHICH WILL LIMIT THE EXPOSED EARTHEN AREAS AND MINIMIZE THE EFFECT OF EARTH DISTURBANCE ACTIVITIES ON SOIL EROSION.
4. IN ACCORDANCE WITH THE NYSDEC SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITY (GP-0-10-001), THERE SHALL BE NOT MORE THAN FIVE (5) ACRES OF DISTURBED SOIL AT ANY ONE TIME WITHOUT PRIOR WRITTEN APPROVAL OF THE NYSDEC. PROVIDE TEMPORARY OR PERMANENT SOIL STABILIZATION FOR EACH STAGE OF THE PROJECT TO MEET THE DISTURBED SOIL LIMITS.
5. ALL SEDIMENTATION BARRIERS AND OTHER TEMPORARY OR PERMANENT MEASURES SHALL BE IN PLACE PRIOR TO THE START OF CONSTRUCTION. PLANS SHOW THE SUGGESTED MINIMUM MEASURES REQUIRED.
6. REMOVAL OF ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE COMPLETED AT THE APPROVAL OF THE OWNER AND ARCHITECT/ ENGINEER. THE COST OF REMOVING THESE MEASURES SHALL ALSO BE INCLUDED IN THE PRICE BID.
7. AREAS OF EROSION AND SEDIMENTATION CONTROL MEASURES DEFINED ON THE PLANS ARE NOT ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR UTILIZING EROSION AND SEDIMENTATION CONTROL TECHNIQUES IN ALL AREAS OF CONSTRUCTION WHERE DISTURBANCE TO EXISTING CONDITIONS IS REQUIRED. THESE TECHNIQUES SHALL MEET THE REQUIREMENTS OF THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, AND LOCAL GOVERNING SOIL AND WATER CONSERVATION AGENCY RECOMMENDATIONS.
8. FOR THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL PROTECT ALL WETLANDS, STORM SEWERS AND WATER COURSES FROM CONTAMINATION BY WATER BORNE SILTS, SEDIMENTS, FUELS, SOLVENTS, LUBRICANTS OR OTHER POLLUTANTS ORIGINATING FROM ANY WORK DONE ON, OR IN SUPPORT OF THIS PROJECT.
9. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT CONTAMINATION OF ANY WETLANDS OR WATERS BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS OR ANY OTHER POLLUTANTS ORIGINATING FROM ANY WORK DONE ON, OR IN SUPPORT OF THIS PROJECT.
10. DURING CONSTRUCTION NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO STORM SEWERS, DITCHES OR OTHER WATERS OF NEW YORK STATE, NOR SHALL WASHINGS FROM CONCRETE TRUCKS, MIXERS OR OTHER DEVICES BE ALLOWED TO ENTER ANY STORM SEWERS, DITCHES, WETLANDS OR WATER COURSES.
11. ALL DREDGED AND EXCAVATED MATERIAL SHALL BE DISPOSED OF ON AN UPLAND SITE AND BE SUITABLY STABILIZED SO THAT IT CANNOT REASONABLY RE-ENTER ANY WATER BODY OR WETLAND AREA.
12. ALL METHODS AND EQUIPMENT PROPOSED BY THE CONTRACTOR TO ACCOMPLISH THE WORK FOR EROSION AND POLLUTION CONTROL SHALL BE SUBJECT TO APPROVAL OF THE ARCHITECT/ENGINEER.
13. THE CONTRACTOR IS ADVISED THAT ACCESS THROUGH AND WITHIN THE PROJECT AREA WILL BE LIMITED TO AREAS SCHEDULED FOR DISTURBANCE. THE CONTRACTOR WILL NOT BE ALLOWED TO CONSTRUCT HAUL ROADS OR ACCESS ROUTES THROUGH UNDISTURBED AREAS UNLESS APPROVED BY THE ARCHITECT/ENGINEER.
14. THE CONTRACTOR SHALL BE REQUIRED TO TREAT TRAVELED AREAS TO CONTROL DUST. WATER SHALL BE APPLIED TO SUCH TRAVELED AREAS AS THE ARCHITECT/ENGINEER MAY DESIGNATE. THE NUMBER OF APPLICATIONS AND THE AMOUNT OF WATER SHALL BE BASED UPON FIELD AND WEATHER CONDITIONS AND AS ORDERED BY THE ARCHITECT/ENGINEER.
15. ALL AREAS OF SOIL DISTURBANCE RESULTING FROM THIS PROJECT WHICH WILL NOT BE SUBJECT TO FURTHER EARTHWORK OR CONSTRUCTION ACTIVITIES SHALL BE PERMANENTLY SEEDED TO ESTABLISH GRASS, AND MULCHED WITH HAY OR STRAW WITHIN ONE WEEK OF FINAL DISTURBANCE. MULCH SHALL BE MAINTAINED UNTIL A SUITABLE VEGETATIVE COVER IS ESTABLISHED.
16. CONTRACTOR STAGING AREAS AND CONSTRUCTION ENTRANCE LOCATIONS SHALL BE COORDINATED WITH THE OWNER PRIOR TO START OF CONSTRUCTION. STABILIZED CONSTRUCTION ENTRANCE(S), AS SHOWN ON THE PLANS OR AS OTHERWISE REQUIRED BY THE COUNTY DEPARTMENT OF TRANSPORTATION, SHALL BE PROVIDED. ALL DISTURBED AREAS SHALL BE RESTORED.
17. ALL DISTURBED AREAS NOT TO BE WORKED WITHIN 21 DAYS SHALL BE TEMPORARILY SEEDED WITHIN 14 DAYS.
18. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF ALL EROSION AND SEDIMENTATION CONTROL MEASURES THROUGHOUT THE PERIOD OF CONSTRUCTION AND UNTIL VEGETATION, OR OTHER MEANS OF SOIL STABILIZATION, IS ESTABLISHED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. REQUIRED MAINTENANCE INCLUDES, BUT IS NOT LIMITED TO, THE INSPECTION AND REPAIR OF ALL FACILITIES, THE REMOVAL OF ACCUMULATED SEDIMENT FROM STAKED STRAW BALES, SILT FENCES, AND SEDIMENT TRAPS, AND THE REPLACEMENT OF ANY MATERIALS OR MEASURES THAT MAY BE REQUIRED TO FACILITATE REVEGETATION OR THE CORRECT OPERATION OF THE MEASURES.
19. ALL CATCH BASINS/DRAINAGE INLETS SHALL HAVE INLET PROTECTION IN OR AROUND THEM TO PREVENT SEDIMENTATION FROM ENTERING THE STORM SYSTEM.
20. THE CONTRACTOR SHALL MAINTAIN SITE CONDITIONS WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS OR INTERFERE WITH THE OPERATION OF THE EXISTING FACILITY. THE CONTRACTOR SHALL KEEP CLEAN AND FREE ALL SIDEWALKS, STREETS, DRIVES, CART PATHS AND OTHER PAVEMENTS FROM DIRT, MUD, STONES AND OTHER HAULED MATERIALS AS A RESULT OF HIS WORK.

SEEDING PROCEDURES:

SEE MIX SHOULD BE GRADE A QUALITY, FRESH AND RECLEANED AND PROVEN TO PRODUCE SATISFACTORY GROWTH IN THE LOCALITY OF THE PROJECT.

SEED MIX: FRESH, CLEAN AND FROM CURRENT SEASON'S CROP, DELIVERED IN ORIGINAL PACKAGES, UNOPENED, AND BEARING GUARANTEED ANALYSIS. SEED SHALL MEET NEW YORK STATE STANDARDS OF GERMINATION AND PURITY.

COMPOSED OF THE FOLLOWING VARIETIES, MIXED TO THE SPECIFIED PROPORTIONS BY WEIGHT, AND TESTED TO MINIMUM PERCENTAGES OF PURITY AND GERMINATION. SHALL BE FREE OF: POA ANNUA, BENT GRASS, AND NOXIOUS WEED SEED SUCH AS CANADIAN THISTLE, COARSE FESCUE, EUROPEAN BINDWEED, JOHNSON GRASS AND LEAFY SPURGE. THE LANDSCAPE CONTRACTOR SHALL FURNISH TO THE ENGINEER A SIGNED STATEMENT CERTIFYING THAT THE SEED FURNISHED IS FROM A LOT THAT HAS BEEN TESTED BY A RECOGNIZED LABORATORY. SEED WHICH HAS BECOME WET, MOLDY OR IN ANY OTHER WAY DAMAGED IN TRANSIT OR STORAGE, WILL NOT BE ACCEPTED.

PERMANENT SEEDING:
PERMANENT SEED SPECIES: BLEND – MIX TYPE 'A' RATE: 5 TO 6 POUNDS PER 1,000 SF PROVIDSTATE-CERTIFIED (BLUE TAG) SEED OF GRASS SPECIES AND PERCENTAGES AS FOLLOWS: (ACCEPTABLE FOR ALL LAWN APPLICATIONS)

LAWN MIX COMMON NAMES	PERCENT BY WEIGHT	PERCENT PURITY	PERCENT GERMINATION
ADELPHI KENTUCKY BLUEGRASS	30%	90%	87%
BARON KENTUCKY BLUEGRASS	30%	90%	87%
PENNLAWN FESCUE	30%	90%	82%
PLEASURE PERENNIAL RYEGRASS	10%	90%	90%

TEMPORARY SEEDING:
IF SPRING, SUMMER OR EARLY FALL, SEED WITH PERENNIAL RYEGRASS AT 1 LB PER 1,000 SF.

IF LATE FALL OR EARLY WINTER, SEED WITH CERTIFIED "AROOSTOOK" WINTER RYE (CEREAL RYE) AT 2.5 LBS. PER 1,000 SF.

MULCH:
STRAW MULCH: CLEAN, MILDEW- AND SEED FREE OAT OR WHEAT STRAW WELL SEASONED BEFORE BALING, FREE FROM MATURE SEED BEARING STALKS OR ROOTS OF PROHIBITED OR NOXIOUS WEEDS.

HYDRO FIBER MULCH: SHALL BE A WOOD FIBER OR WOOD FIBER AND CELLULOSE MIXTURE, PROVIDING THE CELLULOSE CONTENT DOES NOT EXCEED 20% BY VOLUME AND IS THOROUGHLY MIXED WITH WOOD FIBER MULCH. APPLY LIQUID TACKIFIER UNIFORMLY AT THE RATE OF 60 GALLONS PER ACRE, TO KEEP STRAW MULCH IN PLACE.

EXAMPLES OF ACCEPTABLE MULCH ARE:
1. CONWEB HYDRO-MULCH 2000.
2. CONWEB HYDRO-MULCH 2500.
3. MAT'S SOIL GUARD.

TOPSOIL NOTES:

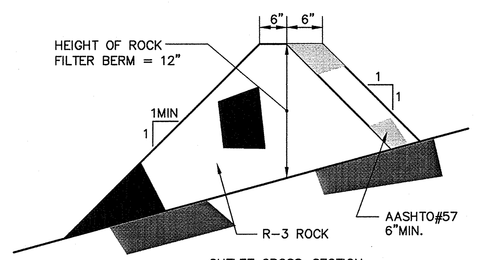
APPROVED TOPSOIL, OBTAINED FROM EXCAVATION AND GRADING WORK OR IF INSUFFICIENT MATERIAL (EITHER QUANTITY AND/OR QUALITY) IS AVAILABLE, IT SHALL BE IMPORTED. ALL TOPSOIL SHALL BE DEPTH AS INDICATED UNDER SPREADING TOPSOIL OF THIS SPECIFICATION.

TOPSOIL SHALL BE NATURAL, FRIABLE, FERTILE SOIL, CHARACTERISTIC OF PRODUCTIVE SOIL IN THE VICINITY, REASONABLY FREE OF STONES, CLAY LUMPS, ROOTS AND OTHER FOREIGN MATTER.

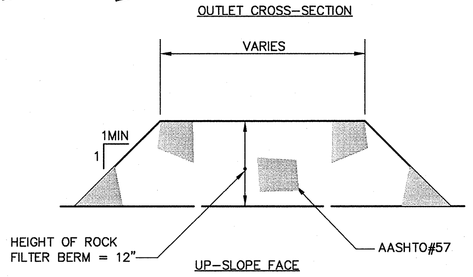
STORE TOPSOIL SEPARATELY FROM ALL OTHER EXCAVATED MATERIALS ON-SITE AND PRESERVE FOR REUSE OR REPLACE WITH IMPORTED TOPSOIL MEETING THE REQUIREMENTS OF DIVISION 31 SECTION "EARTH MOVING".

STOCKED OR FURNISHED TOPSOIL SHALL BE TESTED BY AN APPROVED SOIL-TESTING LABORATORY FOR DETERMINATION OF CORRECT LIME FERTILIZER ADDITIVES. SUBMIT MECHANICAL AND CHEMICAL ANALYSIS OF OFF-SITE TOPSOIL TO THE ENGINEER FOR APPROVAL PRIOR TO DELIVERY OF TOPSOIL TO THE SITE. IF MORE THAN ONE SOURCE WILL BE USED, PROVIDE AN ANALYSIS OF EACH SOURCE.

TOPSOIL SOURCE: IMPORTED TOPSOIL SHALL MEET THE REQUIREMENTS OF DIVISION 31 SECTION "EARTH MOVING". IMPORT TOPSOIL OR MANUFACTURED TOPSOIL FROM OFF-SITE SOURCES. OBTAIN TOPSOIL DISPLACED FROM NATURALLY WELL-DRAINED CONSTRUCTION OR MINING SITES WHERE TOPSOIL OCCURS AT LEAST 4 INCHES DEEP; DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS OR MARSHES.



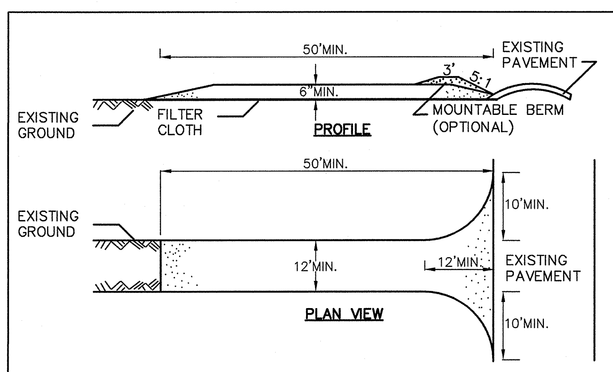
OUTLET CROSS-SECTION



UP-SLOPE FACE

SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE BERM. ANY SECTION OF ROCK FILTER BERM THAT HAS BEEN OVERTOPPED OR UNDERMINED SHOULD BE IMMEDIATELY REPLACED WITH R-4 ROCK AND AASHTO #57 STONE.

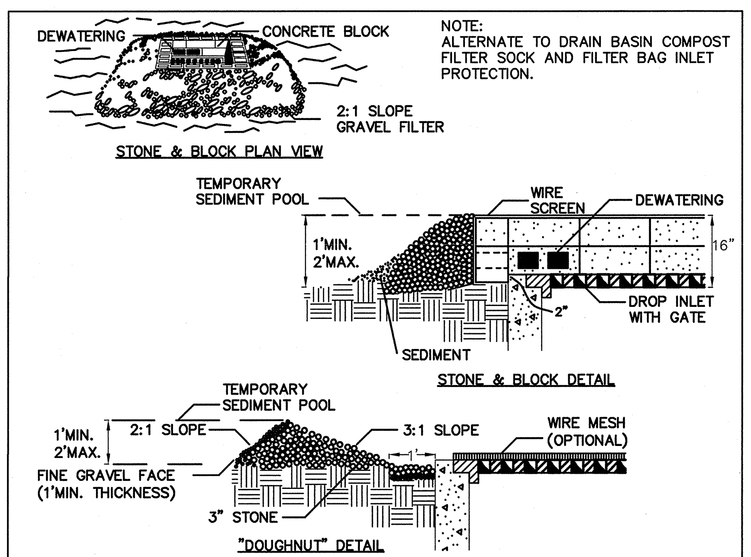
ROCK FILTER BERM
NTS



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 OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. 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 MUST BE REMOVED IMMEDIATELY.
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 RAIN.

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



NOTE:
ALTERNATE TO DRAIN BASIN COMPOST FILTER SOCK AND FILTER BAG INLET PROTECTION.

CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE	STONE & BLOCK DROP INLET PROTECTION

FULLY SPRINKLERED

Revisions:	Date

Architect/Engineer:
willow design
Architecture
SERVICE DISABLED VETERAN OWNED SMALL BUSINESS

consulting engineers
p.o. box 995, scranton, pa. 18501 570-342-3101
ceco associates inc

Seal: Anthony C. Bernardi 3/21/13
COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ANTHONY C. BERNARDI ENGINEER No. PE079024

Drawing Title: E&S DETAILS
Scale: NO SCALE
Issued For: Final Contract Documents
Project Title: Expand and Renovate Urgent Care Area - 15E at Castle Point
Building Number: 15
Checked: A.C.B.
Drawn: C.R.S.
Location: 100 Route 9D Castle Point, NY 12511
Date: March 22, 2013
Project No.: 13-01-04
Drawing No.: CE-501

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