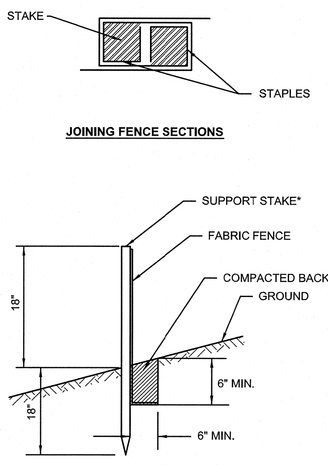
LOCATION OF UNDERGROUND UTILITIES

1. CONTRACTOR CANNOT RELY ON AVAILABLE VA AS-BUILT DRAWINGS TO IDENTIFY ALL EXISTING UNDERGROUND UTILITIES. PRIOR TO ANY EXCAVATION, CONTRACTOR IS REQUIRED TO MAKE SURE THAT THE LOCATION OF ALL UNDERGROUND UTILITIES IN EXCAVATION SITES IS ACCURATELY DESIGNATED. CONTRACTOR SHALL PROVIDE A COMPREHENSIVE REPORT ON ALL UNDERGROUND UTILITIES, WHICH MUST INCLUDE SURVEY GROUND MARKS LAID OUT AND AN ILLUSTRATION OF JOB-SITE SHOWING UNDERGROUND UTILITIES. THE UTILITY LOCATION & COORDINATION UNIFORM CODE OR OTHER MUST BE USED FOR THE GROUND MARKS AND ILLUSTRATIONS. DAMAGE TO UNDERGROUND UTILITIES AS A RESULT OF CONTRACTOR'S EXCAVATION ACTIVITY SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

2. IT MAY BE NECESSARY FOR CONTRACTOR TO EMPLOY THE SERVICES OF A SUBSURFACE UTILITY ENGINEERING FIRM TO CONDUCT SURVEYS TO LOCATE ALL UNDERGROUND UTILITIES IN AREA TO BE EXCAVATED. SUCH SURVEYS MIGHT UTILIZE GEOPHYSICAL PROSPECTING TECHNIQUES AND ELECTROMAGNETICS. IN SOME CIRCUMSTANCES THESE CONVENTIONAL METHODS DO NOT PRECISE LOCATE THE UTILITIES, IN WHICH CASE THE FOLLOWING ADDITIONAL MEANS MAY BE UTILIZED: TVB VIDEO PIPE INSPECTION, GROUND PENETRATING RADAR (FOR NON-METALLICS), AND VACUUM EXCAVATION.



* Stakes spaced @ 8' maximum. Use 2" x 2" wood or equivalent steel stakes.

Filter Fabric Fence must be placed at level existing grade. Both ends of the barrier must be extended at least 8 feet up slope at 45 degrees to the main barrier alignment.

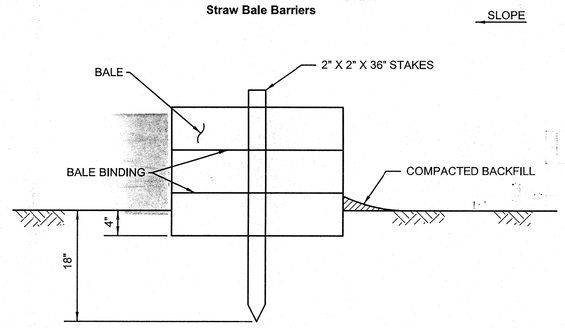
Sediment must be removed when accumulations reach 1/2 the above ground height of the fence.

Any section of Filter Fabric Fence which has been undermined or topped must be immediately replaced with a Rock Filter Outlet.

2 C-101 STANDARD SILT FENCE DETAIL

SCALE: N.T.S.

STANDARD CONSTRUCTION DETAIL #17
Straw Bale Barriers



Straw Bale Barriers should not be used for more than 3 months.

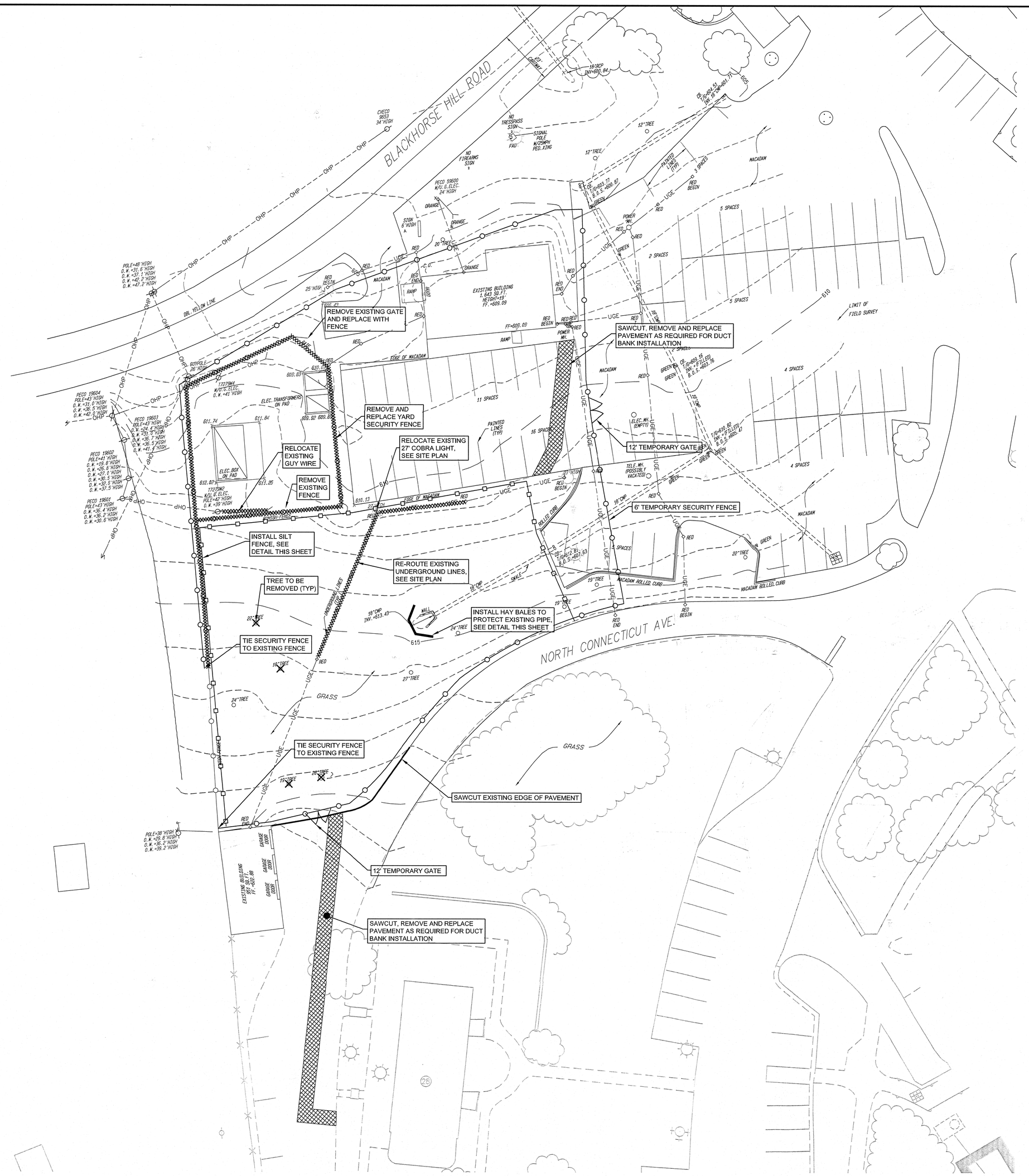
Straw Bale Barriers shall be placed at existing level grade. Both ends of the barrier shall be extended at least 8 feet up slope at 45 degrees to the main barrier alignment.

Sediment Shall be removed when accumulations reach 1/3 the above ground height of the barrier.

Any section of Straw Bale Barrier which has been undermined or topped shall be immediately replaced with a Rock Filter Outlet.

3 C-101 STANDARD STRAW HAY BALE DETAIL

SCALE: N.T.S.



1 C-101 EXISTING CONDITIONS + DEMOLITION PLAN

SCALE: 1" = 20'

DEMOLITION NOTES

1. PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR IS RESPONSIBLE TO VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED FROM ALL REGULATORY AUTHORITIES AND SHALL BE THOROUGHLY FAMILIAR WITH CONDITIONS OF SAID PERMITS AND INSPECTION REQUIREMENTS.
2. CONTRACTOR SHALL SUBMIT DEMOLITION SCHEDULE TO OWNER PRIOR TO PROCEEDING WITH DEMOLITION ACTIVITIES.
3. CONDUCT SITE DEMOLITION OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION.
4. ALL PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING UNLESS OTHERWISE SPECIFICALLY EXEMPTED BY THESE PLANS.
5. REMOVE WASTE MATERIALS AND UNSUITABLE AND EXCESS TOPSOIL FROM PROPERTY AND DISPOSE OF OFF-SITE IN A LEGAL MANNER. (PERMIT REQUIRED FOR OFF-SITE DISPOSAL)
6. LOCATE EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES IN AREAS OF WORK. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING DEMOLITION OPERATION.
7. SHOULD UNCHARTED, OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING DEMOLITION, CONSULT PROJECT COTR AND UTILITY OWNER FOR IMMEDIATE ACTION.
8. DEMOLISH AND COMPLETELY REMOVE FROM SITE MATERIAL INDICATED ON PLAN OR NOTED "TO BE REMOVED".
9. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS CREATED BY THE DEMOLITION OPERATION.
10. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EXISTING CONDITIONS OR BETTER.
11. CONTRACTOR SHALL MAINTAIN POSITIVE STORM DRAINAGE DURING CONSTRUCTION TO INSURE NO DAMAGE TO ADJACENT PROPERTIES OCCURS DURING STORM EVENTS.
12. CONTRACTOR TO REMOVE ALL VISIBLE OR REASONABLY IDENTIFIABLE MATERIAL, EQUIPMENT, ETC. FROM THE SITE IF NOT NEEDED FOR NEW CONSTRUCTION.
13. THE CONTRACTOR IS CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, PREVIOUS DESIGN DOCUMENTS, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF EXISTING UTILITIES MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
14. ALL DEMOLITION AND CONSTRUCTION SHALL COMPLY WITH APPLICABLE BUILDING CODES AND LOCAL RESTRICTIONS. THE CONTRACTOR MUST COMPLY WITH ALL OF THE CONTRACTOR REGISTRATION REQUIREMENTS OF ALL GOVERNING AUTHORITIES.
15. PRIOR TO THE COMMENCEMENT OF DEMOLITION, THE CONTRACTOR WILL COORDINATE HIS ACTIVITIES WITH ALL UTILITY COMPANIES SERVING THIS AREA. THE CONTRACTOR IS TO COORDINATE FULLY WITH THE UTILITY COMPANIES ON THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO DEMOLITION, CONSTRUCTION, AND EXCAVATION.
16. MINIMUM DEPTH FOR REMOVAL OF ALL OBJECTS SHALL BE THREE (3) FEET BELOW GRADE. THE CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OF ALL WASTE MATERIAL.
17. ALL PAVING REMOVAL AND DEMOLITION SHALL BE PERFORMED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER OR OWNER.
18. RELOCATION OR REMOVAL OF OVERHEAD OR UNDERGROUND UTILITIES SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY.
19. *CONTRACTOR SHALL REMOVE ALL EXISTING LIGHT POLES IN THE DEMOLITION AREA AT THE OWNERS* DIRECTION. CONTRACTOR TO COORDINATE WORK WITH UTILITY PROVIDER.
20. ALL PROPOSED PAVEMENT CUTS SHALL BE SAW CUT ONLY.
21. CONTRACTOR SHALL PROVIDE A MINIMUM OF 72 HOURS ADVANCE NOTICE TO THE OWNER PRIOR TO STARTING DEMOLITION ACTIVITIES.
22. CONTRACTOR SHALL VERIFY AND PROTECT ALL PUBLIC UTILITIES. ANY WORK ASSOCIATED WITH SAID UTILITIES TO BE COORDINATED WITH APPROPRIATE UTILITY COMPANY.
23. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE OWNER AND COTR ANY DISCREPANCIES FOUND BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTIONS PRIOR TO PROCEEDING.
24. THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHT-OF-WAYS, PUBLIC OR PRIVATE, PRIOR TO WORKING IN THESE AREAS.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL INSIDE OR OUTSIDE THE CONSTRUCTION LIMITS.
29. CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC ARE PROTECTED FROM INJURY.
30. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION AND CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEEDURES, AND SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK AND THE ACTS OR OMMISIONS SUB-CONTRACTORS.
31. CONTRACTOR SHALL COORDINATE REMOVAL/RELOCATION OF UTILITIES WITH APPROPRIATE COMPANIES PRIOR TO BEGINNING OF CONSTRUCTION.

EROSION CONTROL NOTES

1. GENERAL
ALL EROSION AND SILTATION CONTROL METHODS SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION. IN ADDITION TO PROPOSED EROSION CONTROL MEASURES, THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL EXISTING EROSION CONTROL MEASURES AS WELL AS THE MAINTENANCE OF THESE MEASURES. DURING CONSTRUCTION, DENUDED AREAS SHALL BE COVERED BY MULCHES SUCH AS STRAW, HAY AND FILTER FABRIC. [ALL STORM SEWER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS OR HAY BALES.] THESE SHALL BE MAINTAINED AND MODIFIED DURING THE CONSTRUCTION PROCESS TO MINIMIZE DOWNSTREAM SILTATION. WHEN CONSTRUCTION IS COMPLETED, DETENTION AREAS WILL BE RESHAPED, CLEANED OF SILT, MUD AND DEBRIS, AND RE-SODDED TO PROPERLY DETAIN THE INTENDED STORM QUANTITIES.

2. PROTECTION AND STABILIZATION OF ON-SITE SOIL STOCKPILES:
FILL MATERIAL STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS, WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES MAY BE REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY UNSTOCKPILES MATERIAL REMAIN MORE THAN THIRTY (30) CALENDAR DAYS AFTER SUBSTANTIAL PROJECT COMPLETION.

3. PROTECTION OF EXISTING STORM SEWER SYSTEMS:
DURING CONSTRUCTION, ALL STORM SEWER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONE, ETC. SAID SEDIMENT TRAPS SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS, AND MUST BE APPROVED BY THE COTR BEFORE INSTALLATION.

4. SEDIMENT BASINS AND TRAPS, SEDIMENT TRAPPING MEASURES:
PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED OR, IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTER, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE WEEK OF INSTALLATION.

5. ALL SWALES, DITCHES AND CHANNELS:
CHANNELS LEADING FROM THE SITE SHALL BE SODDED WITH TALL FESCUE WITHIN THREE (3) DAYS OF EXCAVATION.

6. THE CONSTRUCTION OF UNDERGROUND UTILITY CONSTRUCTION:
UNDERGROUND UTILITY LINES AND OTHER STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
A. NO MORE THAN 500 LINEAR FEET OF TRENCH SHALL BE OPEN AT ANY ONE TIME;
B. WHEREVER CONSISTENT WITH SAFETY AND SPACE CONSIDERATION, EXCAVATED MATERIAL SHALL BE CAST TO THE UPHILL SIDE OF TRENCHES. TRENCH MATERIAL SHALL NOT BE CAST INTO OR ONTO THE SLOPE OF ANY STREAM, CHANNEL, ROAD, DITCH OR WATERWAY.

7. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE MAINTAINED:
THESE DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND WILL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.

GENERAL NOTES

1. EXISTING ROADWAYS MAY HAVE A CONCRETE BASE. CONTRACTOR ATTENTION IS DRAWN TO ALL EXCAVATION IS UNCLASSIFIED AND ROADWAY CUTS MAY REQUIRE REMOVAL AND REPLACEMENT OF CONCRETE BASE. REMOVAL AND REPLACEMENT WILL BE PROVIDED AT NO ADDITIONAL COST.

10 0' 10 20 40

SCALE: 1" = 20'

100% CONSTRUCTION DOCUMENTS

Revisions	Date

ENGINEERS/ARCHITECT:

APOGEE Consulting Group, PA
Raleigh, NC
Indianapolis, IN
Atlanta, GA
Columbia, MD
(919) 856-7420
www.acg-pa.com
Apogee Project # 2010 228

WALDON STUDIO ARCHITECTS & PLANNERS, PC
6325 Woodside Court, Suite 310
Columbia, Maryland 21046
Tel 410.290.9680 Fax 410.290.5777
www.waldonstudio.com

WSP · SELLS
Transportation & Infrastructure

Professional Stamp/Seal
COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
DONALD ALLEN SEVER
ENGINEER
No. 35538-E

Drawing Title	EXISTING CONDITIONS & DEMOLITION PLAN AND CONSTRUCTION DETAILS
Project Title	COATESVILLE - VA MEDICAL CENTER A/E INSTALL EMERGENCY GENERATOR
Date	9/23/11
Project No.	542-11-104
Drawn	DSK
Building Number	---
DRAWING No.	C-101
Checked	TMG
Location	COATESVILLE, PENNSYLVANIA
Dwg. 1 Of 3	

VA

N:_2010\7510008\CAD\Construction Documents\10008-Layout.dwg, C-101, 11/11/2011 10:34:58 AM, mgreeson, LandDesign, Inc.