STORMWATER POLLUTION PREVENTION PLAN GENERAL NOTES:

1. EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, SECTIONS 104, 570, 575 AND 980 TO 986.
3. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATION COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL.
4. SOIL WASHED, DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHTS-OF-WAY WILL BE REMOVED IMMEDIATELY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFF SITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
6. SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL NOTE NUMBER 2 (ABOVE).
7. THE SITE SHALL ALWAYS BE GRADED AND MAINTAINED SUCH THAT STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
8. AREAS USED FOR THE CONTRACTOR'S STAGING, INCLUDING BUT NOT LIMITED TO, TEMPORARY STORAGE OF STOCKPILED MATERIALS (E.G. CRUSHED STONE, QUARRY PROCESS STONE, SELECT FILL, EXCAVATED MATERIALS, ETC.), SHALL BE ENTIRELY PROTECTED BY A SILT FENCE ALONG THE LOW ELEVATION SIDE TO CONTROL SEDIMENT RUNOFF.
9. THE CONTRACTOR'S MEANS AND METHODS OF GROUNDWATER DEWATERING SHALL COMPLY WITH REGULATORY REQUIREMENTS FOR THE TEMPORARY DIVERSION OF GROUNDWATER AND ITS DISCHARGE, INCLUDING FDEP CHAPTER 62-621 "GENERAL PERMIT FOR THE DISCHARGE OF PRODUCED GROUNDWATER FROM ANY NON-CONTAMINATED SITE ACTIVITY".

DUST CONTROL

1. AREAS OF CLEARING AND EMBANKMENT AS WELL AS CONSTRUCTION HAUL ROADS SHALL BE TREATED AND MAINTAINED IN SUCH A MANNER AS TO MINIMIZE ANY DUST GENERATION.
2. CALCIUM CHLORIDE MAY BE APPLIED TO UNPAVED ROADWAY AREAS, ONLY, SUBJECT TO THE ENGINEER'S APPROVAL AND CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS, SECTION 102-5, LATEST EDITION.

PROPOSED CONSTRUCTION

THIS PROJECT SHALL CONSIST OF THE CONSTRUCTION OF NEW STRUCTURES AND THE PROTECTION/RELOCATION OF EXISTING STRUCTURES. THE CONSTRUCTION SHOULD PROCEED IN THE FOLLOWING MANNER:

1. INSTALLATION OF SEDIMENT AND EROSION CONTROL DEVICES THAT CAN BE PLACED PRIOR TO ANY MAJOR SOIL DISTURBANCES.
2. CLEAR AND REMOVE EXISTING VEGETATION IN THOSE AREAS WHERE NECESSARY. REMAINING VEGETATION IS TO BE PROPERLY PROTECTED AND TO REMAIN IN ITS NATURAL STATE.
3. IMMEDIATE INSTALLATION OF REMAINING SEDIMENT AND EROSION CONTROL DEVICES.
4. INITIATE CONSTRUCTION
5. UPON COMPLETION OF CONSTRUCTION ACTIVITIES, PROVIDE RESTORATION, FINE GRADE REMAINDER OF SITE.
6. REMOVAL OF APPROPRIATE TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES.

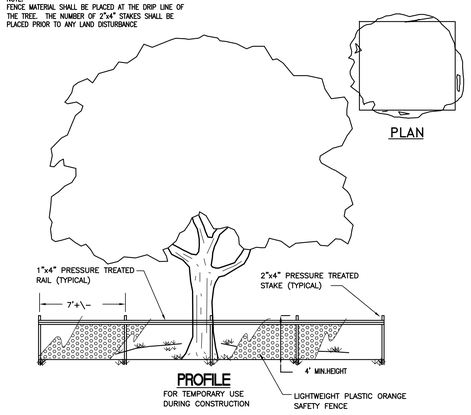
EROSION AND SEDIMENTATION CONTROL NOTES

1. SILT FENCE SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR, WITH ENDS OF ADJACENT FENCES TIGHTLY ABUTTING ONE ANOTHER PRIOR TO EARTHWORK OPERATIONS.
2. THE SILT FENCE BARRIER SHALL BE ENTRENCHED AND BACK FILLED. A TRENCH SHALL BE EXCAVATED THE LENGTH OF THE PROPOSED BARRIER TO A MINIMUM DEPTH OF 6 INCHES. THE EXCAVATED SOIL SHALL CONFORM TO THE GROUND LEVEL ON THE DOWNHILL SIDE AND SHALL BE BUILT UP TO 4 INCHES AGAINST THE UPHILL SIDE OF THE BARRIER.
3. SILT FENCE BARRIERS SHALL BE SECURELY ANCHORED.
4. SILT FENCE BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS, BUT NOT BEFORE THE UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED.
5. SILT FENCE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
6. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE, END RUNS AND UNDERCUTTING BENEATH FENCE.
7. NECESSARY REPAIRS TO SILT FENCE BARRIERS OR REPLACEMENT OF FENCE SHALL BE ACCOMPLISHED PROMPTLY.
8. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE BARRIER.
9. SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

TREE PROTECTION NOTES:

1. DURING DEVELOPMENT ACTIVITIES, PROTECTED TREES SHALL BE PROTECTED FROM ACTIVITIES WHICH MAY INJURE OR KILL THEM.
2. THE ENTIRE DRIP LINE OF THE TREE SHALL BE PRESERVED IN A NATURAL STATE OR PROVIDED WITH PERVIOUS LANDSCAPING. WHERE THIS IS IMPRACTICAL, A WAIVER MAY BE GRANTED; HOWEVER, IN NO CASE SHALL MORE THAN FIFTY (50) PERCENT OF THE DRIP LINE BE COVERED WITH IMPERMEABLE MATERIALS. AT LEAST FIFTY (50) PERCENT OF THE AREA WITHIN THE DRIP LINE AND THE AREA WITHIN FIVE (5) FEET OF THE TRUNK SHALL BE PRESERVED IN A NATURAL STATE OR PROVIDED WITH PERVIOUS LANDSCAPING. WITHIN FIVE (5) FEET OF THE TRUNK, THE SOIL SHALL BE MAINTAINED AT ITS ORIGINAL GRADE WITH NO TRENCHING OR CUTTING OF ROOTS. BEYOND FIVE (5) FEET OF THE TREE TRUNK AND WITHIN THE DRIP LINE, A LIGHT FILL OF POROUS GRAVELLY MATERIAL UP TO SIX (6) INCHES DEEP MAY BE ADDED BUT NO GRADE LOWERING SHALL OCCUR. TO ACCOMPLISH DEEPER FILLING, A DRAINAGE SYSTEM SHALL BE INSTALLED WITHIN THE AREA DEFINED IN A DRIP LINE OF THE TREE AND A DRYWALL SHALL BE CONSTRUCTED AT A DISTANCE AT LEAST FIVE (5) FEET FROM THE TRUNK OF THE TREE BEFORE GRAVEL AND POROUS FILL ARE ADDED.
3. WITHIN THE DRIP LINE, THERE SHALL BE NO STORAGE OF FILL OR COMPACTION OF THE SOIL AS FROM HEAVY EQUIPMENT, OR ANY SPILLING, STORAGE OR DISPOSAL OF CONCRETE, MORTAR, PAINT, SOLVENTS, CHEMICALS, OR OTHER POTENTIALLY HARMFUL SUBSTANCES.
4. ALL TREES TO BE PROTECTED SHALL BE PROTECTED BY MEANS OF A PHYSICAL BARRIER WHICH WILL LIMIT ACCESS TO SAID TREE. SAID PROTECTIVE BARRIER SHALL BE COMPOSED OF WOOD OR OTHER SUITABLE MATERIALS WHICH ASSURE COMPLIANCE WITH THE INTENT OF THIS ORDINANCE. SAID PROTECTIVE BARRIERS, WHERE REQUIRED, SHALL REMAIN UNTIL SUCH TIME AS CONSTRUCTION IS COMPLETE. A MINIMUM OF ONE HUNDRED (100) PERCENT OF THE AREA WITHIN THE DRIP LINE SHALL BE SO PROTECTED UNLESS A WAIVER IS GRANTED. ALSO, DURING CONSTRUCTION, NO ATTACHMENTS OR WIRES SHALL BE ATTACHED TO ANY PROTECTED TREE. BARRIERS WILL BE REQUIRED FOR ALL TREES BEING PROTECTED EXCEPT IN THE FOLLOWING CASES:
   A. ROAD RIGHT-OF-WAYS, UTILITY EASEMENTS, ETC. THESE AREAS MAY BE RIBBED BY PLACING STAKES A MAXIMUM OF FIFTY (50) FEET APART AND TAPING RIBBON, PLASTIC TAPE, ROPE, ETC., FROM STAKE TO STAKE ALONG THE OUTSIDE PERIMETERS OF SUCH AREAS TO BE CLEARED.
   B. LARGE PROPERTY AREAS SEPARATE FROM THE CONSTRUCTION OR LAND CLEARING AREA INTO WHICH NO EQUIPMENT WILL VENTURE MAY ALSO BE RIBBONED OFF.

NOTE:
FENCE MATERIAL SHALL BE PLACED AT THE DRIP LINE OF THE TREE. THE NUMBER OF 2"x4" STAKES SHALL BE PLACED PRIOR TO ANY LAND DISTURBANCE



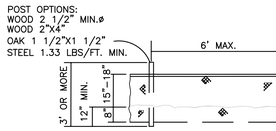
D4 CD101 TREE PROTECTION BARRICADE DETAIL
N.T.S.

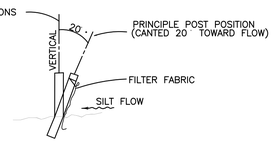
NPDES:

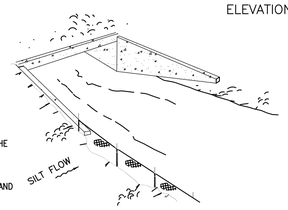
1. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR CONTROL OF ALL EROSION AND SEDIMENTATION.
2. THE CONTRACTOR SHALL SUBMIT THE NPDES NOI TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION FOR USE OF THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL ACT AS THE "OPERATOR" FOR THE PERMIT AND ABIDE BY ALL REQUIREMENTS THEREOF, INCLUDING DEVELOPMENT OF A STORMWATER POLLUTION PREVENTION PLAN FOR THE PROJECT AND PERFORMANCE OF REQUIRED INSPECTIONS BY A CERTIFIED INSPECTOR.
3. THE CONTRACTOR SHALL INSTALL PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MAINTAIN THROUGHOUT CONSTRUCTION THOSE SEDIMENT AND EROSION CONTROL FEATURES DEPICTED IN THE CONTRACT DOCUMENTS AND AS REQUIRED FOR COMPLIANCE WITH THE NPDES GENERIC PERMIT.

NWFWMD REQUIRED NOTES:

1. NO WORK SHALL COMMENCE UNTIL THE NWFWMD ERP PERMIT HAS BEEN RECEIVED.
2. A COPY OF THE NWFWMD ERP PERMIT WILL BE KEPT ON SITE AT ALL TIMES.
3. THE CONTRACTOR IS REQUIRED TO REVIEW THE COMPLETE PERMIT PRIOR TO CONSTRUCTION COMMENCEMENT.
4. A 8.5x11 WEATHER RESISTANT SIGN, INCLUDING THE PERMIT NUMBER SHALL BE PLACED ON THE PROPERTY FACING THE ROAD.
5. THE ENGINEER OF RECORD, KENNETH C. HORNE, SHALL BE RESPONSIBLE FOR MONITORING CONSTRUCTION, ENSURING THAT THE NOTICE OF COMMENCEMENT IS FILED WITH THE NWFWMD AND THAT THE AS-BUILT CERTIFICATION IS PROVIDED WHEN THE PROJECT IS COMPLETED.

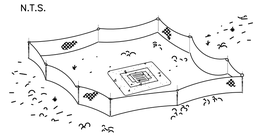




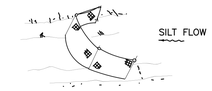


TYPE III SILT FENCE

N.T.S.

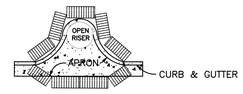


TYPE III SILT FENCE
PROTECTION AROUND DITCH BOTTOM INLETS.

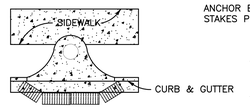


SILT FENCE APPLICATIONS

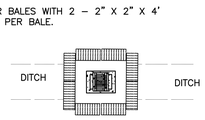
N.T.S.
DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.



PARTIAL INLET

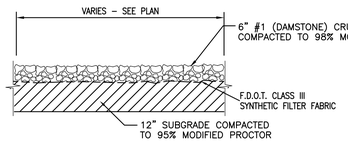


COMPLETED INLET

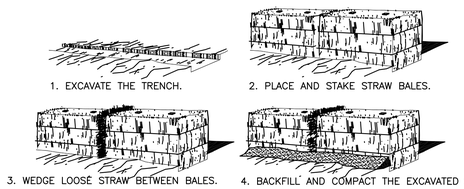


DITCH BOTTOM INLET

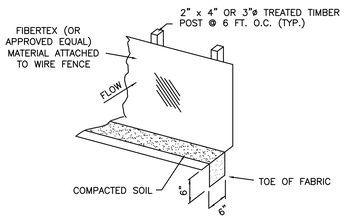
B7 PROTECTION AROUND INLETS OR SMALLER STRUCTURES
N.T.S.



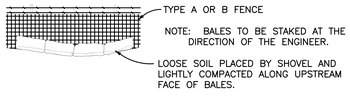
D5 CD101 CONSTRUCTION ENTRANCE DETAIL
N.T.S.



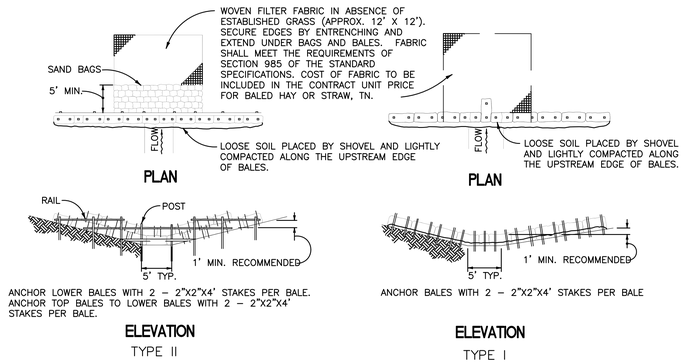
D7 STRAW BALE BARRIER DETAIL
N.T.S.



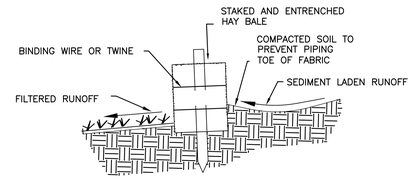
F1 CD101 SILT FENCE DETAIL
N.T.S.



F3 BALES BACKED BY FENCE
N.T.S.



F5 BARRIER FOR UNPAVED DITCHES
N.T.S.



E8 DETAIL OF PROPERLY INSTALLED HAY BALE
N.T.S.

FINAL SUBMISSION / FULLY SPRINKLERED

Revisions:	Date

CONSULTANTS:

CIVIL:
KENNETH HORNE & ASSOCIATES
7201 NORTH 9TH AVENUE, STE. 6
PENSACOLA, FLORIDA 32504
PH: (850) 471-9005
FX: (850) 471-0093

LANDSCAPE ARCHITECT:
CSA GROUP, INC.
6300 PICCADILLY SQUARE DRIVE
MOBILE, ALABAMA 36609
PH: (251) 344-4023
FX: (251) 344-4052

COMM/IDS:
SCHMIDT CONSULTING GROUP, INC.
40 S. PALAFOX PLACE, STE. 300
PENSACOLA, FLORIDA 32502
PH: (850) 438-0050
FX: (850) 432-8631

SURVEYORS:
KCI TECHNOLOGIES, INC.
10401 HIGHLAND MANOR DRIVE, SUITE 120
TAMPA, FLORIDA 33610
PH: (813) 740-2300

KENNETH C. HORNE LICENSE No. 40149 STATE OF FLORIDA PROFESSIONAL ENGINEER
3/20/13
KHA FL. CERT. #8268

ARCHITECT/ENGINEERS:

BES DESIGN/BUILD
BES DESIGN/BUILD, LLC
766 Middle St, Fairhope, AL 36532
Phone: 251.990.5778 Fax: 251.990.3716

Drawing Title: STORMWATER POLLUTIOIN PREVENTION DETAILS
Approved Project Director:
Project Title: PANAMA CITY OUTPATIENT CLINIC VA GULF COAST HEALTH CARE
Location: PANAMA CITY, FLORIDA
Date: MARCH 2013
Checked: KCH
Drawn: LRR
Project Number: 520-326
Building Number: -
Drawing Number: CD501
Dwg. 2 of 21

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231