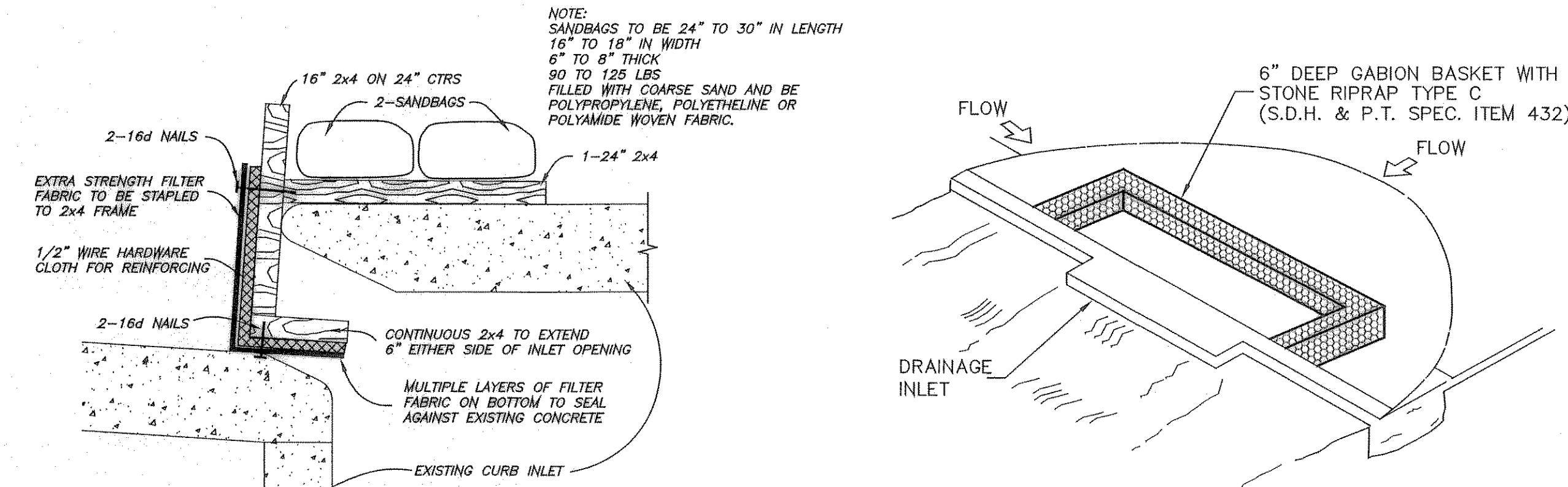
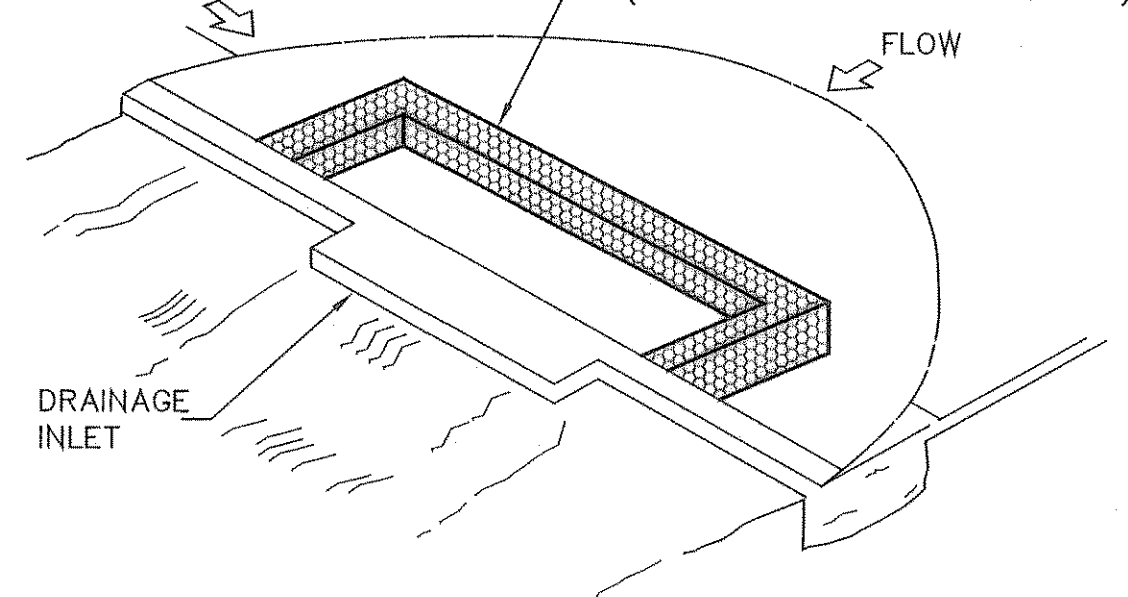


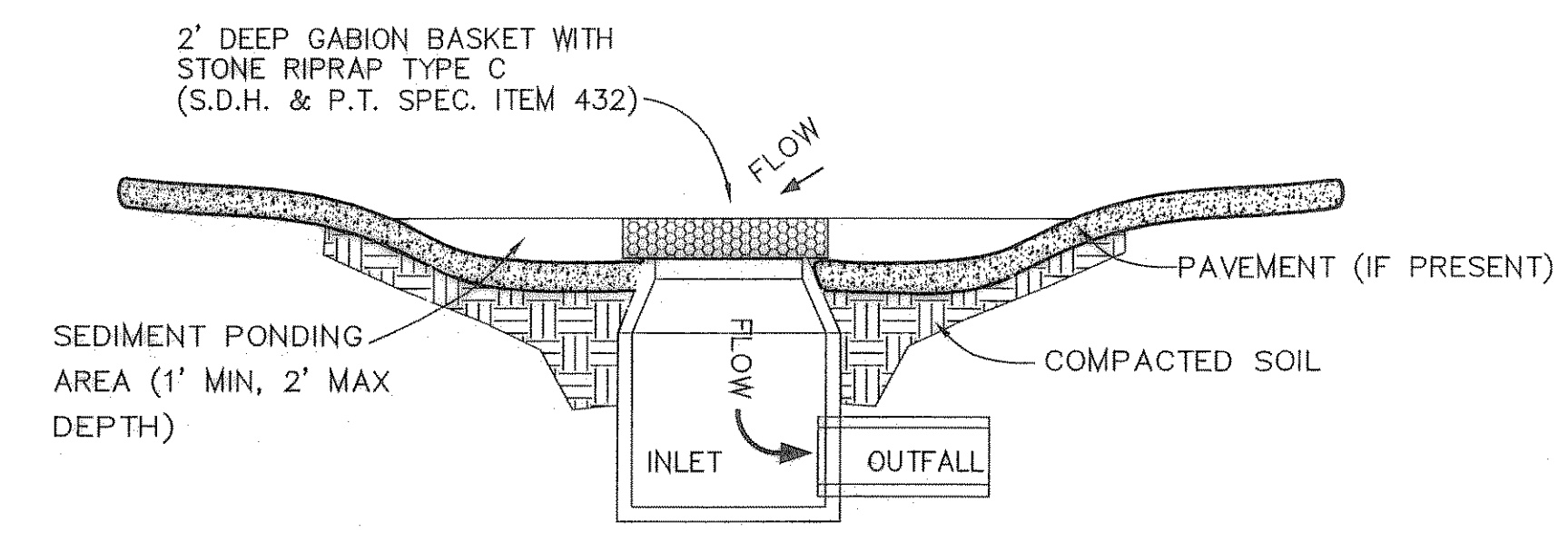
# EROSION CONTROL PLAN



CURB INLET PROTECTION ON GRADE  
NOT TO SCALE



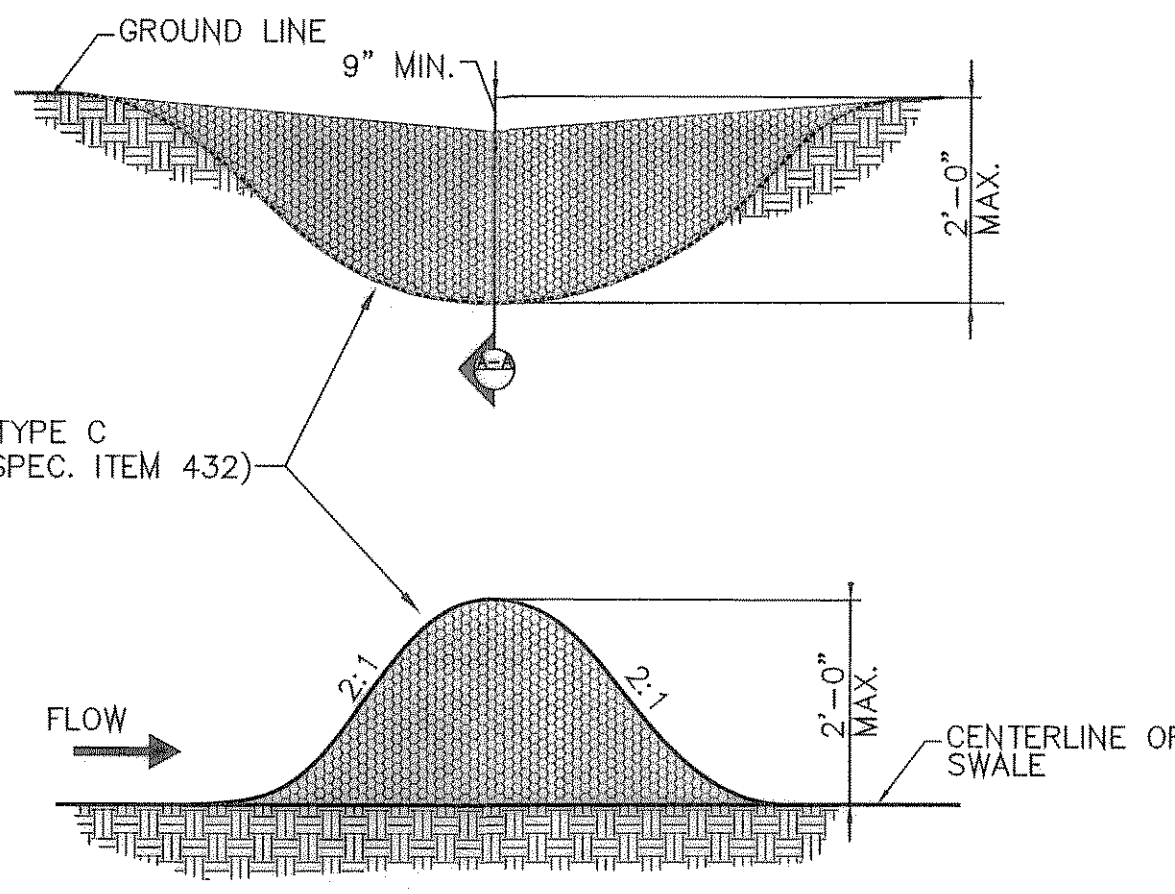
LOW POINT CURB INLET SEDIMENT FILTER  
N.T.S.



SEDIMENT POND @ CURB INLETS & AREA DRAINS  
NOT TO SCALE

Solid Waste Management	
<p><b>DESCRIPTION</b> Large volumes of solid waste are often generated at construction sites including: packaging, pallets, wood waste, concrete waste, soil, electrical wiring, cuttings, and a variety of other materials. The solid waste management practice lists techniques to minimize the potential of storm water contamination from solid waste through appropriate storage and disposal practices.</p> <p><b>PRIMARY USE</b> These practices should be a part of all construction practices. By limiting the trash and debris on site, storm water quality is improved along with reduced clean up requirements at the completion of the project.</p> <p><b>APPLICATIONS</b> The solid waste management practice for construction sites is based on proper storage and disposal practices by construction workers and supervisors. Key elements of the program are education and modification of improper disposal habits. Cooperation and vigilance is required on the part of supervisors and workers to ensure that the recommendations and procedures are followed. Following are the recommendations and procedures and recommended procedures:</p> <ul style="list-style-type: none"> <li>Targeted Solid Waste Materials                     <ul style="list-style-type: none"> <li>Paper and cardboard containers</li> <li>Plastic packaging</li> <li>Styrofoam packing and forms</li> <li>Insulation materials (non-hazardous)</li> <li>Wood pallets</li> <li>Wood cuttings</li> <li>Pipes and electrical cuttings</li> <li>Concrete, brick, and masonry waste</li> <li>Shingle cuttings and waste</li> <li>Roofing for</li> <li>Steel (cuttings, nails, rust residue)</li> <li>System board cuttings and waste</li> <li>Sheathing cuttings and waste</li> <li>Miscellaneous cuttings and waste</li> <li>Food waste</li> <li>Demolition waste</li> </ul> </li> </ul> <p><b>Storage Procedures</b></p> <ul style="list-style-type: none"> <li>Whenever possible, minimize production of solid waste materials.</li> <li>Designate a foreman or supervisor to oversee and enforce proper solid waste procedures.</li> <li>Instruct construction workers in proper solid waste procedures.</li> <li>Segregate potentially hazardous waste from non-hazardous construction site debris.</li> <li>Keep solid waste materials under cover in either a closed dumpster or other enclosed trash container that limits contact with rain and runoff.</li> <li>Store waste materials away from drainage ditches, swales and catch basins.</li> <li>Do not allow trash containers to overflow.</li> <li>Do not allow waste materials to accumulate on the ground.</li> <li>Prohibit littering by workers and visitors.</li> <li>Police area daily for litter and debris.</li> <li>Enforce solid waste handling and storage procedures.</li> </ul> <p><b>Disposal Procedures</b></p> <ul style="list-style-type: none"> <li>If feasible, segregate recyclable wastes from non-recyclable waste materials and dispose of properly.</li> <li>General construction debris may be hauled to a licensed construction debris landfill (typically less expensive than a sanitary landfill).</li> <li>Use waste facilities approved by local jurisdiction.</li> <li>Runoff which comes into contact with ungrouted waste shall be directed into structural or detrit treatment such as silt fence to remove debris.</li> </ul> <p><b>Education</b></p> <ul style="list-style-type: none"> <li>Educate all workers on solid waste storage and disposal procedures.</li> <li>Instruct workers in identification of solid waste and hazardous waste.</li> <li>Have regular meetings to discuss and reinforce disposal procedures (incorporate in regular safety seminars).</li> <li>Clearly mark on all solid waste containers which materials are acceptable.</li> </ul> <p><b>Quality Control</b></p> <ul style="list-style-type: none"> <li>Foreman and/or construction supervisor shall monitor on-site solid waste storage and disposal procedures.</li> <li>Discipline workers who repeatedly violate procedures.</li> </ul> <p><b>Requirements</b></p> <ul style="list-style-type: none"> <li>Job-site waste handling and disposal education and awareness program.</li> <li>Commitment by management to implement and enforce Solid Waste Management Program.</li> <li>Compliance by workers.</li> <li>Sufficient and appropriate waste storage containers.</li> <li>Timely removal of stored solid waste materials.</li> <li>Prohibit modest cost impact for additional waste storage containers.</li> <li>Minimal overall cost impact.</li> </ul> <p><b>LIMITATIONS</b> Only address non-hazardous solid waste. One part of a comprehensive construction site management program.</p>	<p><b>Applications</b> Perimeter Control Slope Protection Sediment Trapping Channel Protection Temporary Stabilization Permanent Stabilization Waste Management Housekeeping Practices</p> <p><b>Targeted Constituents</b></p> <ul style="list-style-type: none"> <li>Sediment</li> <li>Nutrients</li> <li>Toxic Materials</li> <li>Oil &amp; Grease</li> <li>Floatable Materials</li> <li>Other Construction Wastes</li> </ul> <p><b>Implementation Requirements</b></p> <ul style="list-style-type: none"> <li>Capital Costs</li> <li>Maintenance</li> <li>Training</li> <li>Suitability for Slopes &gt; 5%</li> </ul> <p><b>Legend</b></p> <ul style="list-style-type: none"> <li>Significant Impact</li> <li>Medium Impact</li> <li>Low Impact</li> <li>Unknown or Questionable Impact</li> </ul> <p>W-1</p>

Silt Fence	
<p><b>DESCRIPTION</b> A silt fence consists of geotextile fabric supported by poultry netting or other backing stretched between wooden or metal posts with the lower edge of the fabric securely embedded in the soil. The fence is typically located downstream of disturbed areas to intercept runoff in the form of sheet flow. Silt fence provides both filtration and time for sedimentation to reduce sediment and it reduces the velocity of the runoff. Properly designed silt fence is economical since it can be re-located during construction and re-used on other projects.</p> <p><b>PRIMARY USE</b> Silt fence is normally used as perimeter control located downstream of disturbed areas. It is only feasible for non-concentrated, sheet flow conditions.</p> <p><b>APPLICATIONS</b> Silt fence is an economical means to treat overland, non-concentrated flows for all types of projects. Silt fences are used as perimeter control devices for both site developments and linear (roadway) type projects. They are most effective with coarse to silty soil types. Due to the potential of clogging, silt fence should not be used with clay soil types.</p> <p>In order to reduce the length of silt fence, it should be placed adjacent to the down slope side of the construction activities.</p> <p>elevation (along a contour line) where possible.</p> <ul style="list-style-type: none"> <li>Maximum slope adjacent to the fence is 1:1</li> <li>Maximum distance of flow to silt fence should be 200 feet or less.</li> <li>Maximum concentrated flow to silt fence shall be 1 CFS per 20 feet of fence.</li> <li>If 50% or less of soil, by weight, passes the U.S. Standard sieve No. 200, select the equivalent opening size (E.O.S.) to retain 85% of the soil.</li> <li>Maximum equivalent opening size shall be 70 (#70 sieve).</li> <li>Minimum equivalent opening size shall be 100 (#100 sieve).</li> <li>If 80% or more of soil, by weight, passes the U.S. Standard sieve No. 200, silt fences shall not be used due to potential clogging.</li> <li>Sufficient room for the operation of sediment removal equipment shall be provided between the silt fence and other obstructions in order to properly maintain the fence.</li> <li>The ends of the fence shall be turned upstream to prevent bypass of stormwater.</li> </ul> <p><b>LIMITATIONS</b> Minor ponding will likely occur at the upstream side of the silt fence resulting in minor localized flooding.</p> <p>Fences which are constructed in swales or low areas subject to concentrated flow may be concentrated overtopping resulting in failure of the filter fence. Silt fences subject to areas of concentrated flow (waterways with flows &gt; 1 cfs) are not acceptable.</p> <p>Silt fence can interfere with construction operations, therefore planning of access routes onto the site is critical.</p> <p>Silt fence can fail structurally under heavy storm flows, creating maintenance problems and reducing the effectiveness of the system.</p> <p><b>MAINTENANCE REQUIREMENTS</b> Inspections should be made on a weekly basis, especially after large storm events. If the fabric becomes clogged, it should be cleaned or if necessary, replaced.</p> <p>Sediment should be removed when it reaches approximately one-half the height of the fence.</p>	<p><b>Applications</b> Perimeter Control Slope Protection Sediment Trapping Channel Protection Temporary Stabilization Permanent Stabilization Waste Management Housekeeping Practices</p> <p><b>Targeted Constituents</b></p> <ul style="list-style-type: none"> <li>Sediment</li> <li>Nutrients</li> <li>Toxic Materials</li> <li>Oil &amp; Grease</li> <li>Floatable Materials</li> <li>Other Construction Wastes</li> </ul> <p><b>Implementation Requirements</b></p> <ul style="list-style-type: none"> <li>Capital Costs</li> <li>Maintenance</li> <li>Training</li> <li>Suitability for Slopes &gt; 5%</li> </ul> <p><b>Legend</b></p> <ul style="list-style-type: none"> <li>Significant Impact</li> <li>Medium Impact</li> <li>Low Impact</li> <li>Unknown or Questionable Impact</li> </ul> <p>Fe=0.75 S-1</p>



Inlet Protection	
<p><b>DESCRIPTION</b> Inlet protection consists of a variety of methods of intercepting sediment of low point inlets through the use of stone, filter fabric and other materials. This is normally located at the inlet, providing either detention or filtration to reduce sediment and floatable materials in storm water.</p> <p><b>PRIMARY USE</b> Inlet protection is normally used as a secondary defense in site erosion control due to the limited effectiveness and applicability of the techniques. It is normally used in developments that include new inlets or roads with new curb inlets or during major repairs to existing roadways. Inlet protection has limited use in developed areas due to the potential for flooding, traffic safety and pedestrian safety and maintenance problems. Inlet protection can reduce sediment in storm sewer systems by serving as a back up system in the controls or by reducing sediment loads from controls with limited effectiveness such as straw bale dikes.</p> <p><b>APPLICATIONS</b> Different variations are used for different conditions as follows:</p> <ul style="list-style-type: none"> <li>Filter barrier protection (similar to a silt fence barrier around the inlet) is appropriate when the drainage area is less than five (5) acres. This type of protection is not applicable in paved areas. (See details, Section 9)</li> <li>Bedrock and gravel (crushed stone, recycled concrete is also appropriate) protection is used when flows exceed 0.5 cfs and it is necessary to allow for overtopping to prevent flooding. (See sketch at top of this section.)</li> <li>Wire mesh and gravel protection (crushed stone, recycled concrete is also appropriate) is used when flows exceed 0.5 cfs and construction traffic may occur over the inlet. This form of protection may be used with both curb and drop inlets. (See details Section 9)</li> <li>Excavated impoundment protection around a drop inlet may be used for protection against sediment entering a storm drain system. With this method, it is necessary to install weep holes to allow the impoundment to drain completely. The impoundment shall be equal to 1800 to 3600 cubic feet per acre of contributing drainage area relating the inlet for full effectiveness. Smaller volumes can be used for reduced effectiveness. (See details Section 9).</li> </ul> <p>Filter fabric protection shall be designed and maintained in a manner similar to silt fence.</p> <ul style="list-style-type: none"> <li>Maximum depth of flow shall be (8) eight inches or less depending on velocity and pedestrian traffic.</li> <li>Passive drainage is critical in the design of inlet protection. If overflow is not provided for the inlet, flow which exceeds the capacity of the inlet protection system shall be routed through established swales, streets or other underpasses to minimize damage due to ponding and to provide for public safety.</li> </ul> <p><b>LIMITATIONS</b> Inlet protection shall be designed and maintained in a manner similar to silt fence.</p> <p>Inlet protection is only viable at low point inlets, inlets which are on a slope cannot be effectively protected because storm water will flow the inlet and continue downstream, causing an overtop condition of inlets beyond.</p> <p><b>MAINTENANCE REQUIREMENTS</b> Inspections should be made on a weekly basis, especially after large (&gt;15 inches) storm events. When all fence is used and the fabric becomes clogged, it should be cleaned or if necessary, replaced. Also, sediment should be removed when it reaches approximately one-half the height of the fence. If a pump is used, sediment should be removed when the volume of the basin is reduced by 50%.</p> <p>For systems using stone filters, when the stone filter becomes clogged with sediment, the stones must be pulled away from the inlet and cleaned or replaced. Since clearing of gravel at a construction site may be difficult, an alternative approach would be to use the clogged stone as fill material and put new stone around the inlet.</p>	<p><b>Applications</b> Perimeter Control Slope Protection Sediment Trapping Channel Protection Temporary Stabilization Permanent Stabilization Waste Management Housekeeping Practices</p> <p><b>Targeted Constituents</b></p> <ul style="list-style-type: none"> <li>Sediment</li> <li>Nutrients</li> <li>Toxic Materials</li> <li>Oil &amp; Grease</li> <li>Floatable Materials</li> <li>Other Construction Wastes</li> </ul> <p><b>Implementation Requirements</b></p> <ul style="list-style-type: none"> <li>Capital Costs</li> <li>Maintenance</li> <li>Training</li> <li>Suitability for Slopes &gt; 5%</li> </ul> <p><b>Legend</b></p> <ul style="list-style-type: none"> <li>Significant Impact</li> <li>Medium Impact</li> <li>Low Impact</li> <li>Unknown or Questionable Impact</li> </ul> <p>Fe=0.67-0.75 S-4</p>

Stabilized Construction Entrance	
<p><b>DESCRIPTION</b> A stabilized construction entrance consists of a pad consisting of gravel, crushed stone, recycled concrete or other rock like material on top of geotextile filter cloth to facilitate the wash down and removal of sediment and other debris from construction equipment prior to exiting the construction site. For added effectiveness, a wash rock area can be incorporated into the design to further reduce sediment trapping. For long term projects, catch guards or other type of permanent rock system can be used in conjunction with a wash rock. This device addresses the problem of silt and mud deposition in roadways used for construction site access.</p> <p><b>PRIMARY USE</b> Stabilized construction entrances are used primarily for sites in which significant truck traffic occurs on a daily basis. It reduces the need to remove sediment from streets. If used properly, it also directs the majority of traffic to a stable location, reducing the number and quantity of disturbed areas on the site and providing protection for other structural controls through traffic control.</p> <p><b>APPLICATIONS</b> Stabilized construction entrances are a required part of the erosion control plan for all site developments larger than 5 acres and a recommended practice for all construction sites. It is not suitable for long, linear projects. If possible, small entrances should be incorporated into small lot construction due to the large percentage of disturbed area on the site and the high potential for off-site flooding of silt and mud.</p> <p><b>DESIGN CRITERIA</b></p> <ul style="list-style-type: none"> <li>Stabilized construction entrances are to be constructed such that drainage across the entrance is directed to a controlled, stabilized outlet on site with provisions for storage, proper filtration and removal of wash water.</li> <li>The entrance must be properly graded so that storm water is not allowed to leave the site and enter roadways.</li> <li>Minimum width of entrance shall be 15 feet, but in no case shall the width be less than that of the entry way to be used.</li> <li>Minimum depth of entrance shall be 12 inches for the entire length of the entrance.</li> <li>Minimum dimensions for entrances of road areas less than 1 acre shall be an average lot depth of 100 feet with a minimum entrance width of 15 feet and a minimum entrance depth of 20 feet.</li> <li>No crushed concrete allowed - 3" to 5" rock required.</li> </ul> <p><b>LIMITATIONS</b> Selection of the construction entrance location is critical in that to be effective, it must be used exclusively.</p> <p>Stabilized entrances are rather expensive considering that it must be installed in combination with one or more other sediment control techniques, but it may be cost effective compared to labor intensive street cleaning.</p> <p><b>MAINTENANCE REQUIREMENTS</b> Inspections should be made on a regular basis and after large storm events in order to ascertain whether or not sediment and pollution are being effectively detained on site. When sediment has substantially clogged the void area between the rocks, the aggregate must be washed down or replaced.</p> <p>Periodic re-grading and top dressing with additional stone must be done to keep the efficiency of the entrance from diminishing.</p>	<p><b>Applications</b> Perimeter Control Slope Protection Sediment Trapping Channel Protection Temporary Stabilization Permanent Stabilization Waste Management Housekeeping Practices</p> <p><b>Targeted Constituents</b></p> <ul style="list-style-type: none"> <li>Sediment</li> <li>Nutrients</li> <li>Toxic Materials</li> <li>Oil &amp; Grease</li> <li>Floatable Materials</li> <li>Other Construction Wastes</li> </ul> <p><b>Implementation Requirements</b></p> <ul style="list-style-type: none"> <li>Capital Costs</li> <li>Maintenance</li> <li>Training</li> <li>Suitability for Slopes &gt; 5%</li> </ul> <p><b>Legend</b></p> <ul style="list-style-type: none"> <li>Significant Impact</li> <li>Medium Impact</li> <li>Low Impact</li> <li>Unknown or Questionable Impact</li> </ul> <p>Fe=N/A S-9</p>

Concrete Waste Management	
<p><b>DESCRIPTION</b> Concrete waste of construction sites comes in two forms: 1) excess fresh concrete mix including truck and equipment washings, and 2) concrete dust and concrete debris resulting from demolition. Both forms have the potential to impact water quality through storm water runoff contact with the waste.</p> <p><b>PRIMARY USE</b> Concrete waste is present at most construction sites. This BMP should be utilized at sites in which concrete waste is present.</p> <p><b>APPLICATIONS</b> A number of water quality parameters can be affected by introduction of concrete - especially fresh concrete. Concrete affects the pH of runoff, causing significant chemical changes in water bodies and harming aquatic life. Suspended solids in the form of both cement and aggregate dust are also generated from both fresh and demolished concrete waste.</p> <p><b>Current Unacceptable Waste Concrete Disposal Practices</b></p> <ul style="list-style-type: none"> <li>Dumping in vacant areas on the job-site.</li> <li>Illegal dumping off-site.</li> <li>Dumping into ditches or drainage facilities.</li> </ul> <p><b>Recommended Disposal Practices</b></p> <ul style="list-style-type: none"> <li>Never dump waste concrete haphazardly or without property owners knowledge and consent.</li> <li>Treat runoff from storage areas through the use of structural controls as required.</li> </ul> <p><b>Educators</b></p> <ul style="list-style-type: none"> <li>Drivers and equipment operators should be instructed on concrete disposal and equipment washing practices (see above).</li> <li>Supervisors must be made aware of the potential environmental consequences of improperly handled concrete waste.</li> </ul> <p><b>Refrainment</b></p> <ul style="list-style-type: none"> <li>The construction site manager or foreman must ensure that employees and pre-mix companies follow proper procedures for concrete disposal and equipment washing.</li> <li>Employees violating disposal or equipment cleaning directives must be re-educated or disciplined if necessary.</li> </ul> <p><b>Demolition Practices</b></p> <ul style="list-style-type: none"> <li>Weather weather and wind direction to ensure concrete dust is not entering drainage structures and surface waters.</li> <li>Where appropriate, contain sediment traps or other types of sediment detention devices downstream of demolition activities.</li> </ul> <p><b>Requirements</b></p> <ul style="list-style-type: none"> <li>Use pre-determined disposal sites for waste concrete.</li> <li>And/or pre-determined truck and equipment washing areas.</li> <li>Assign pre-determined truck and equipment washing areas.</li> <li>Educate drivers and operators on proper disposal and equipment cleaning procedures.</li> </ul> <p><b>Educators</b></p> <ul style="list-style-type: none"> <li>Minimal cost impact for training and monitoring.</li> <li>Concrete disposal cost depends on availability and distance to suitable disposal areas.</li> <li>Additional costs involved in equipment washing could be significant.</li> </ul> <p><b>LIMITATIONS</b> This concrete waste management program is one part of a comprehensive construction site waste management program.</p>	<p><b>Applications</b> Perimeter Control Slope Protection Sediment Trapping Channel Protection Temporary Stabilization Permanent Stabilization Waste Management Housekeeping Practices</p> <p><b>Targeted Constituents</b></p> <ul style="list-style-type: none"> <li>Sediment</li> <li>Nutrients</li> <li>Toxic Materials</li> <li>Oil &amp; Grease</li> <li>Floatable Materials</li> <li>Other Construction Wastes</li> </ul> <p><b>Implementation Requirements</b></p> <ul style="list-style-type: none"> <li>Capital Costs</li> <li>Maintenance</li> <li>Training</li> <li>Suitability for Slopes &gt; 5%</li> </ul> <p><b>Legend</b></p> <ul style="list-style-type: none"> <li>Significant Impact</li> <li>Medium Impact</li> <li>Low Impact</li> <li>Unknown or Questionable Impact</li> </ul> <p>W-3</p>

ALLOWABLE NON-STORM WATER DISCHARGES	
<p>DISCHARGES FROM FIRE FIGHTING ACTIVITIES.</p> <p>FIRE HYDRANT FLUSHINGS.</p> <p>WATER USED TO WASH VEHICLES OR CONTROL DUST.</p> <p>POTABLE WATER SOURCES (INCLUDING WATERLINE FLUSHINGS CONTAINING LESS THAN 1000 GALLONS).</p> <p>UNCONTAMINATED GROUND WATER (INCLUDING DOWNGRADE GROUNDWATER INFILTRATION).</p> <p>FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH PROCESS MATERIALS SUCH AS SOLVENTS.</p> <p>SPRINGS, RIPARIAN HABITATS, WETLANDS AND UNCONTAMINATED GROUNDWATER.</p> <p>IRRIGATION WATER.</p> <p>EXTERIOR BUILDING WASH DOWN WITHOUT DETERGENTS.</p> <p>PAVEMENT WASHERS WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS ALL SPILL MATERIAL HAS BEEN REMOVED) AND WHERE DETERGENTS ARE NOT USED.</p> <p>AIR CONDITIONING CONDENSATE.</p> <p>HEAVILY CHLORINATED WATER (2.5 MG/L OR GREATER FREE CHLORINE) RESULTING FROM WATER LINE STERILIZATION SHALL BE DIRECTED UNDER PERMIT TO THE SANITARY SEWER UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL APPLY TO THE ENGINEERING DEPARTMENT FOR A SANITARY SEWER DISCHARGE PERMIT AFTER THE MANDATORY CHLORINE RETENTION TIME (USUALLY 24 HOURS). THE HEAVILY CHLORINATED WATER MAY BE DISCHARGED TO THE SANITARY SEWER, BEGINNING TWO WORKING DAYS AFTER PERMIT ACQUISITION.</p>	<p><b>Legend</b></p> <ul style="list-style-type: none"> <li>Silt Fence</li> <li>Limits of Construction</li> <li>Property Boundary</li> <li>Elevation Contours</li> <li>Building Foot Print</li> <li>Covered Trash</li> <li>Direction of Storm Water</li> <li>Runoff Flow</li> <li>Covered Storage</li> <li>Vegetated/Preserved Buffer Strip</li> <li>Concrete Wash Area</li> <li>Inlet Protection</li> <li>North Arrow</li> <li>Stabilized Construction Entrance</li> <li>Rock</li> <li>Daily Mulch</li> <li>Swale</li> <li>Other (Specify)</li> <li>Erosion Mat</li> </ul>

RECORD DRAWING	
<p>This is to certify that changes and corrections have been made to conform to the contractor's record of this project.</p> <p>Signed: <i>J. Glenn</i> Date: 5/26/10 Glenn Engineering Corporation</p>	

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Final Plans for Bidding and Construction

Professional Engineer  
Mike Glenn  
35009

**Rockwall**  
INDEPENDENT SCHOOL DISTRICT

TENNIS COMPLEX AT WILKERSON SANDERS STADIUM ROCKWALL, TEXAS

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ISSUE: 07/30/2009

Revisions:

1	08/06/09	CITY REVISIONS
2	08/11/09	CITY REVISIONS

Sheet Title:  
**SWPPP DETAILS**

**CG 1.04**

Aug 11, 2009 - 4:08pm User: HP Administrator C:\ROCK\BID\OUTLET\2008 ADDITIONS\BID SET\2008 TENNIS CENTER\BIDSET\2008WILKERSON-SANDERS-REV111 TENNIS.dwg