

STANDARD CONSTRUCTION DETAILS

EROSION CONTROL

REVISED - JANUARY 2018



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EROSION CONTROL

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1. All operators and/or contractors shall conform to the terms and conditions of the Texas Commission on Environmental Quality (TCEQ), TPDES General Permit No. TXR 150000 Issued and Dated March 5, 2003.
2. The Notice of Intent (NOI), as required by the General Permit, must be properly displayed on site at all times by each operator.
3. All releases of the reportable quantities of hazardous substances shall be reported immediately to the facility operator, EPA, and TCEQ.
4. Qualified operator personnel must inspect the site at least once every 14 days and 24 hours after a storm event at 0.5 inches or greater. As an alternative, an inspection can be conducted once every seven (7) calendar days on a defined day. A decision on which method to use must be decided before work begins and must be followed throughout the project.
5. Modifications to the Storm Water Pollution Prevention Plan shall be implemented and be in-place within a Seven calendar day period.
6. If any contractor sees a violation by an operator or another contractor, that operator or contractor in violation shall be notified as well as the facility operator.
7. Erosion control shall be installed prior to grading.
8. Accumulated silt deposits shall be removed from silt fences and hay bale dikes when silt depth reaches six inches or capacity has been reduced by 50%, whichever occurs first. Removal of silt deposits by the contractor shall be incidental to the performance of the contract and a separate bid item shall not be included.
9. The contractor shall add or delete erosion protection at the request and direction of the Operator of the city.
10. After installation of pavement, final lot benching and general cleanup, the paving Contractor shall establish grass groundcover in all street parkways, lot, and all other disturbed areas. Sodding shall be done as specified by Section 202.5 and seeding as specified by Section 200.6 of the October 2004 or Latest edition of NCTCOG Standard Specification.
11. It shall be the contractor's responsibility to control and limit silt and sediment leaving the site. Specifically, the contractor shall protect all public streets, alleys, streams, and storm drainage systems from erosion deposits.
12. It shall be the contractor's responsibility to provide a dumpster (or equal) to collect solid waste materials during construction.
13. A drainage area map will be included with the Storm Sewer Pollution Prevention Plan.
14. It is anticipated that the following non-storm water discharges will be associated with this project. These discharges are authorized through the construction general permit.
 - A. Fire hydrant flushing
 - B. Discharge from Firefighting activities
 - C. Potable water sources including waterline flushing
 - D. Water used to control dust
 - E. Uncontaminated ground water
 - F. Air Conditioning condensate
 - G. Vehicle, external building and pavement wash water where detergent and soaps are not used and where spills of toxic or hazardous materials have not occurred and the purpose is to remove mud, dirt or dust.
15. Construction waste disposal containers shall be provided on the site for disposal of all non-hazardous construction waste materials. The containers shall be hauled to landfill by the Contractor.
16. All hazardous materials shall be handled and disposed of by the Contractor in accordance with Federal, State and Local regulations.



**STORM WATER POLLUTION
PREVENTION PLAN NOTES**

STANDARD CONSTRUCTION DETAILS
EROSION CONTROL

DATE:
JULY 2003

REV DATE:
AUG. 2006

SHEET :
SD-EC01

1. Posts which support the silt fence shall be installed on a slight angle toward the anticipated runoff source. The post must be embedded a minimum of 18 inches.
2. The toe of the silt fence shall be trenched in with a spade or mechanical trencher, so that the downslope face of the trench is flat and perpendicular to the line of flow. Where fence cannot be trenched in (e.g. pavement), weight fabric flap with washed gravel on the uphill side to prevent flow under fence.
3. The trench must be a minimum of 6 inches deep and 6 inches wide to allow for the silt fence fabric to be laid in the ground and backfilled with compacted material.
4. Silt fence shall be securely fastened to each support post or to woven wire, which is in turn attached to the support post. There shall be a 6 inch double overlap, securely fastened where ends of fabric meet.
5. Inspection shall be made daily or after each rainfall. Repair or replacement shall be made promptly as needed.
6. Silt fence shall be removed when the site is completely stabilized so as not to block or impede storm flow or drainage.
7. Accumulated silt shall be removed when it reached a depth of 3 inches. The silt shall be disposed of at an approved site and in such a manner as to not contribute to additional siltation.



SILT FENCE
NOTES

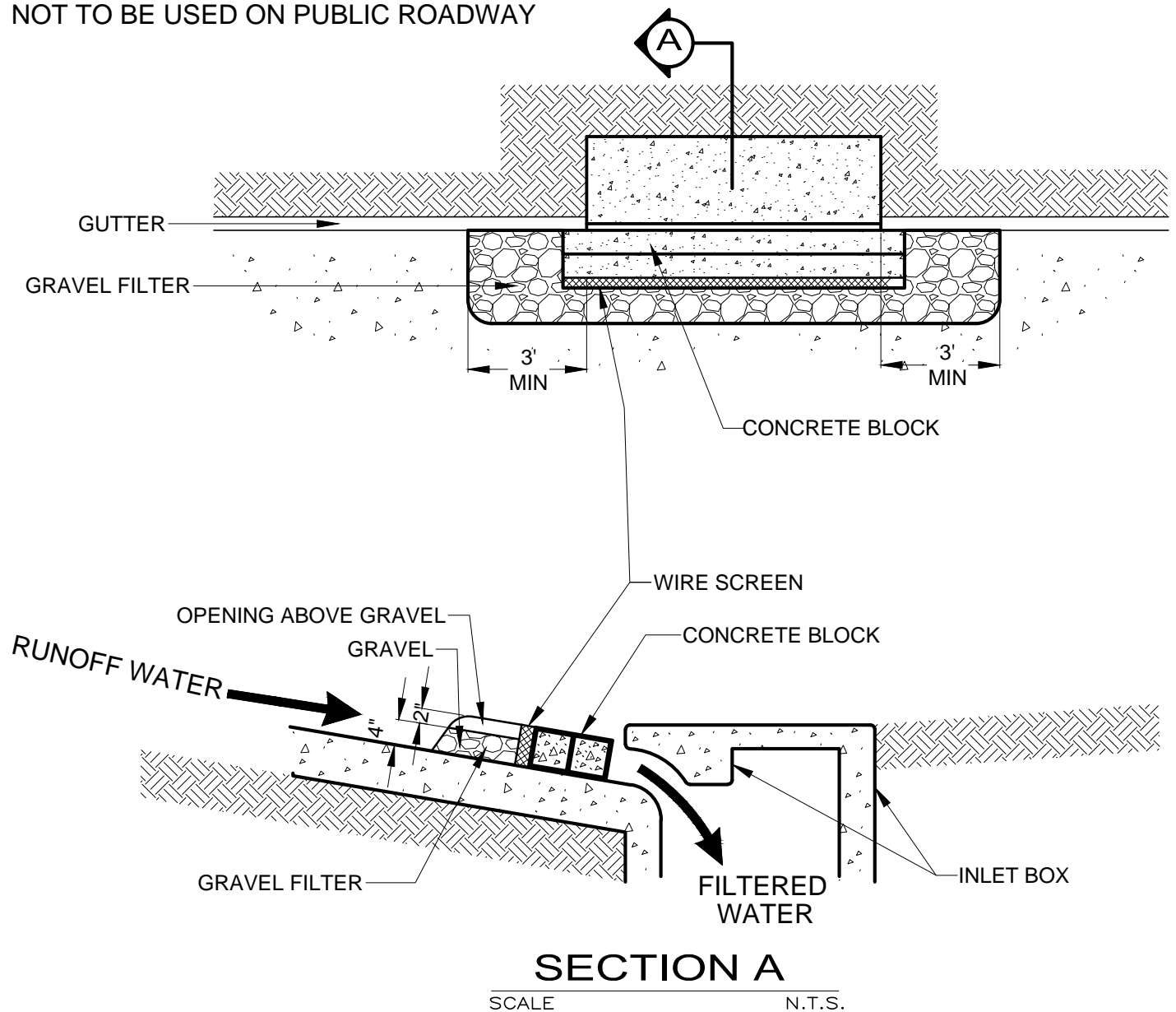
STANDARD CONSTRUCTION DETAILS
EROSION CONTROL

DATE:
JULY 2003

REV DATE:
AUG. 2006

SHEET :
SD-EC02

NOTE :
 NOT TO BE USED ON PUBLIC ROADWAY



SEDIMENT BARRIER AT INLETS

*P2 INLET FILTERS REQUIRED WHEN STREET IS OPEN TO VEHICULAR TRAFFIC.
 SEDIMENT BARRIERS NOT ALLOWED ON OPEN THOROUGHFARES.



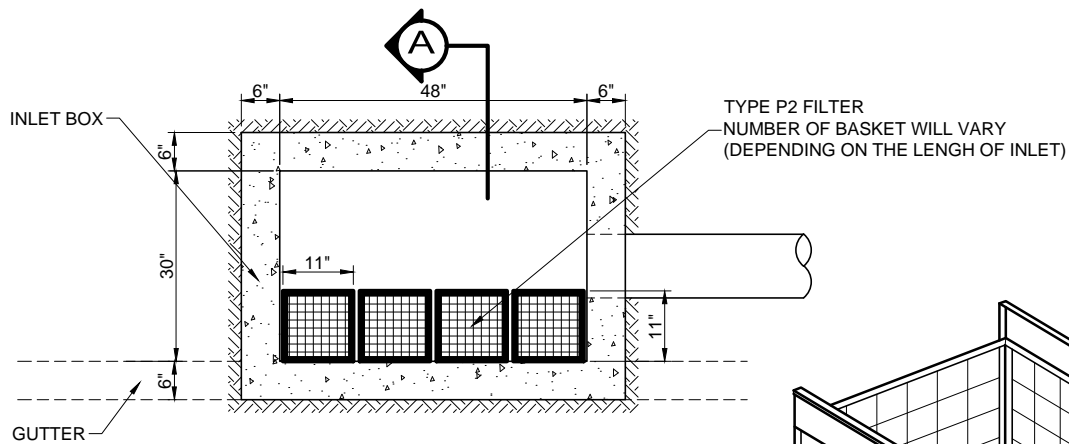
SEDIMENT BARRIER AT INLETS
 (AFTER PAVEMENT
 CONSTRUCTION)

STANDARD CONSTRUCTION DETAILS
 EROSION CONTROL

DATE:
 MAY 2005

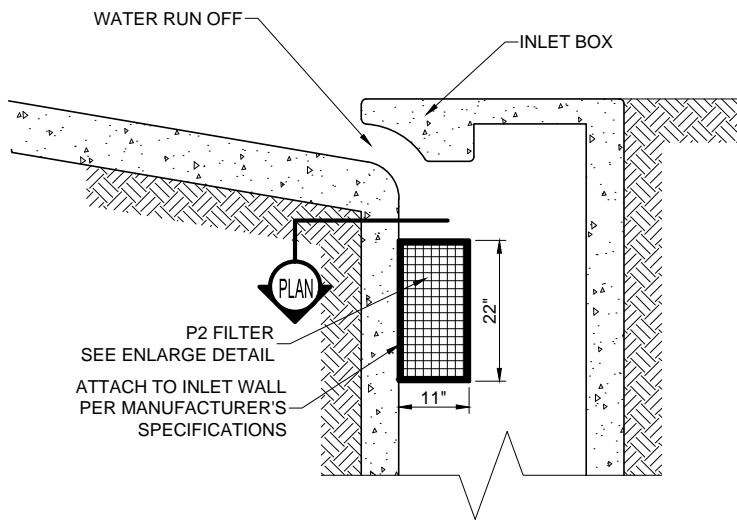
REV DATE:
 AUG. 2006

SHEET :
 SD-EC03



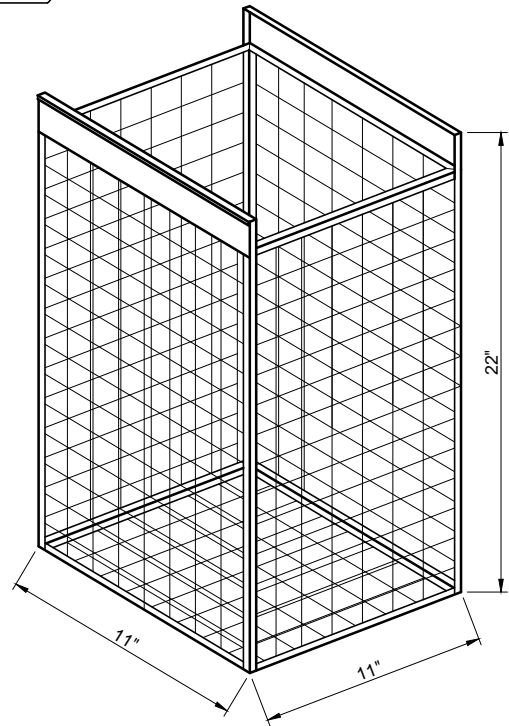
PLAN

SCALE N.T.S.



SECTION A

SCALE N.T.S.



ENLARGED DETAIL

SCALE N.T.S.

SPECIFICATION :
 INSERT CHAMBER
 WIDTH 11"
 LENGTH 11"
 HEIGHT 22"
 FILTRATION SURFACE AREA 6.3sf.

P-2 INLET FILTERS AFTER PAVEMENT CONSTRUCTION

*P2 INLET FILTERS REQUIRED WHEN STREET IS OPEN TO VEHICULAR TRAFFIC.

FOR PRODUCT DETAIL CALL SNEIDER at 214-707-6956.

NOTE :

1. BASKETS SHALL BE LINED WITH FILTER FABRIC AND CLEANED/MAINTAINED BY CONTRACTOR ON A REGULAR BASIS.
2. P2 FILTERS ARE TO BE REMOVED BY CONTRACTOR WITH ALL EROSION CONTROL (BMPs) AT COMPLETION OF PROJECT.



TYPE P-2 INLET FILTERS
 AFTER PAVEMENT
 CONSTRUCTION

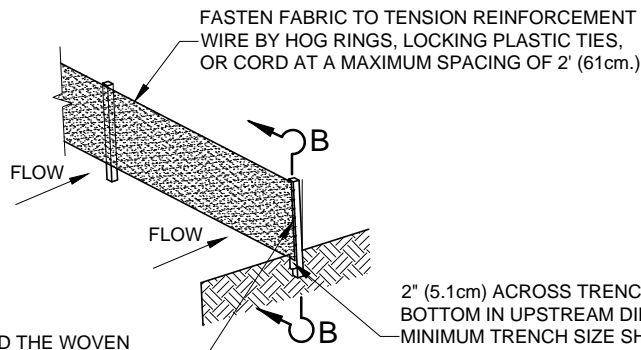
STANDARD CONSTRUCTION DETAILS
 EROSION CONTROL

DATE:
MAY 2005

REV DATE:
MAY 2013

SHEET :
SD-EC04

4' (1.2 m) MIN. STEEL OR WOOD POSTS SPACED AT 5' (1.8 m) TO 8' (2.4 m) SOFTWOOD POSTS SHALL BE 3" (7.6 cm) MIN. IN. DIA. OR NOMINAL 2"x4" (5.1 cm x 10.2 cm). HARDWOOD POSTS SHALL HAVE A MIN. CROSS SECTION OF 1.5"x1.5" (3.8 cm x 3.8 cm).

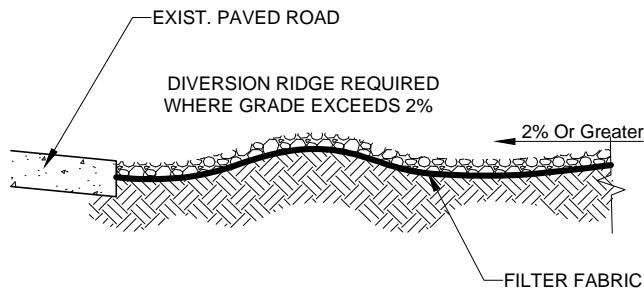
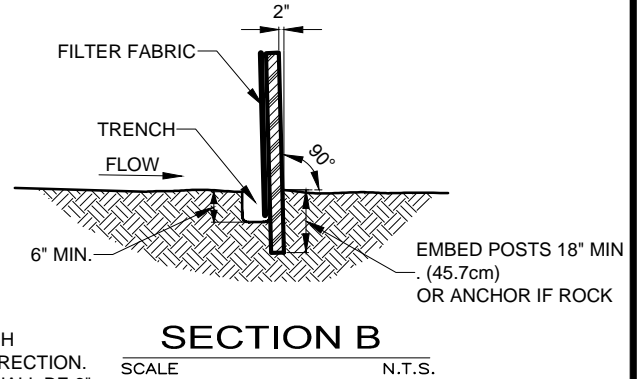


ATTACHED THE WOVEN FABRIC USING EVENLY SPACED STAPLES OR LOCKING PLASTIC TIES FOR WOODEN POSTS AT A MAX. SPACING OF 6" (15.2cm). USE LOCKING PLASTIC TIES OR SEWN VERTICAL POCKETS FOR STEEL POSTS AT SAME SPACING.

SILT FENCE

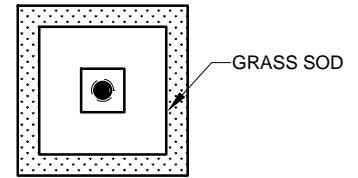
2" (5.1cm) ACROSS TRENCH BOTTOM IN UPSTREAM DIRECTION. MINIMUM TRENCH SIZE SHALL BE 6" (15.2cm) SQUARE. BACKFILL AND HAND TAMP.

(SEE NOTES CITY OF ALLEN SPECIFICATIONS SD-EC02)

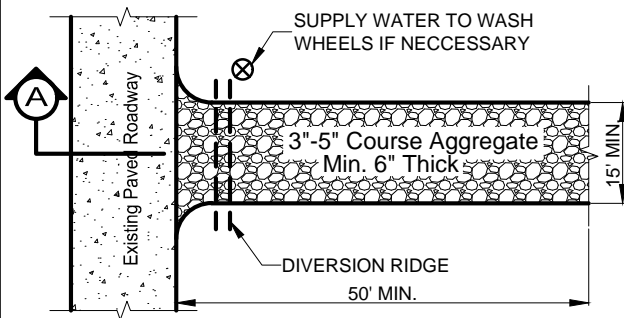


SECTION A

SCALE N.T.S.

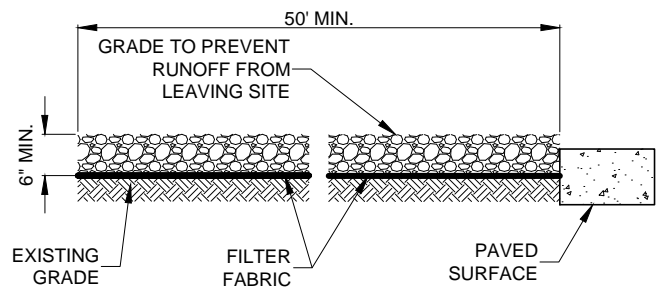


DROP INLET PROTECTION (TYP)



PLAN

SCALE N.T.S.



TEMPORARY STONE CONSTRUCTION ENTRANCE / EXIT

* STORM WATER PLAN APPLICABLE FOR ALL CIVIL ENGINEERING CONSTRUCTION



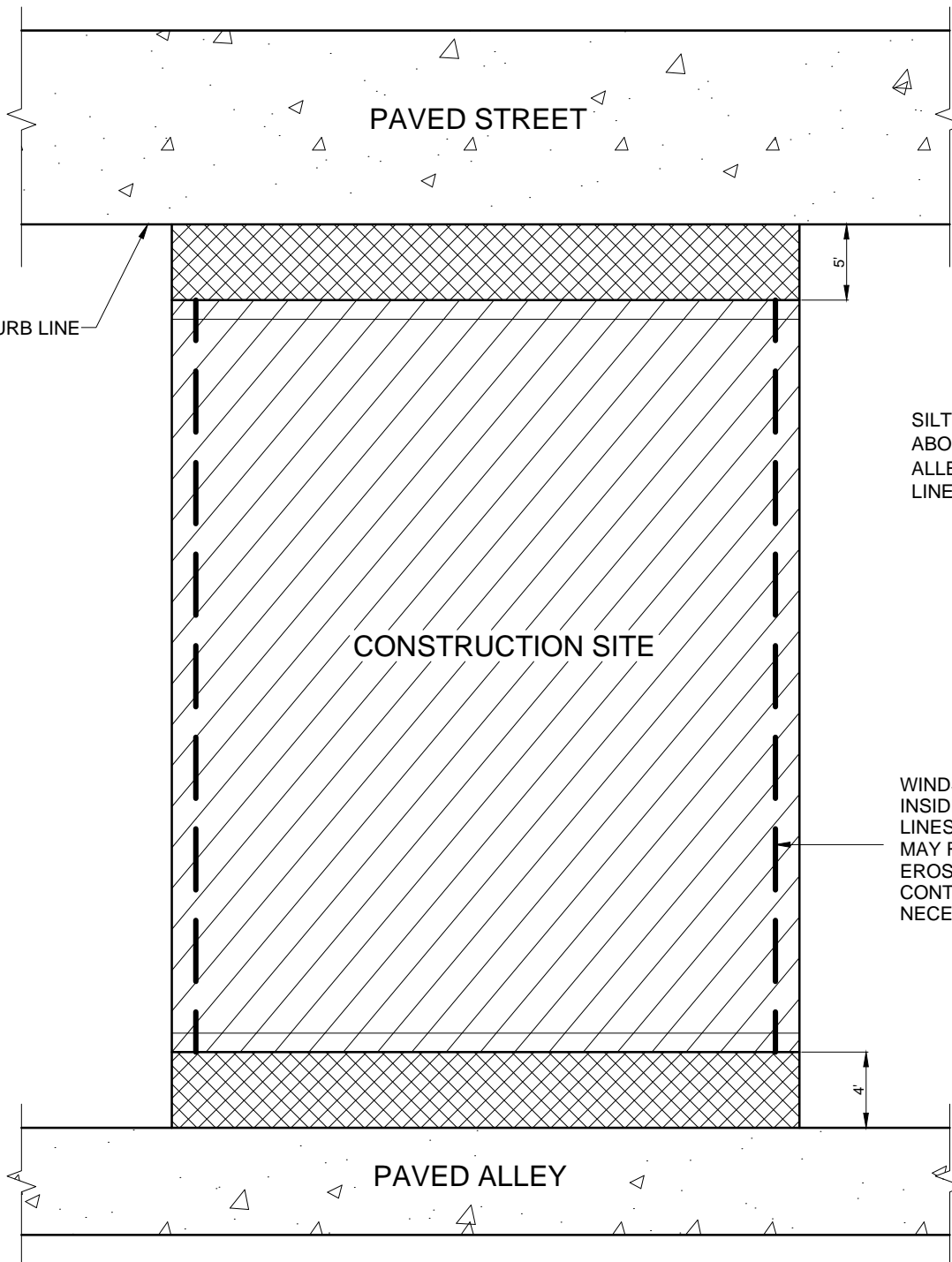
STORM WATER POLLUTION PLAN DETAILS

STANDARD CONSTRUCTION DETAILS
EROSION CONTROL

DATE:
MAY 2005

REV DATE:
AUG. 2006

SHEET :
SD-EC05



BACK OF CURB LINE

SILT FENCE TO BE ON OR ABOUT THE STREET'S AND ALLEY'S RIGHT OF WAY LINES AS REQUIRED

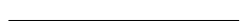
WINDSCREEN TO BE ON THE INSIDE OF BOTH SIDE PROPERTY LINES. THE BUILDING INSPECTOR MAY REQUIRE ADDITIONAL EROSION CONTROL AND/OR TRASH CONTAINMENT MEASURES IF NECESSARY.



CURLEX OR EQUAL GROUND COVER



4' HIGH WINDSCREEN FENCE



2' HIGH SILT FENCE (WHERE REQUIRED BY SLOPE CONDITIONS)



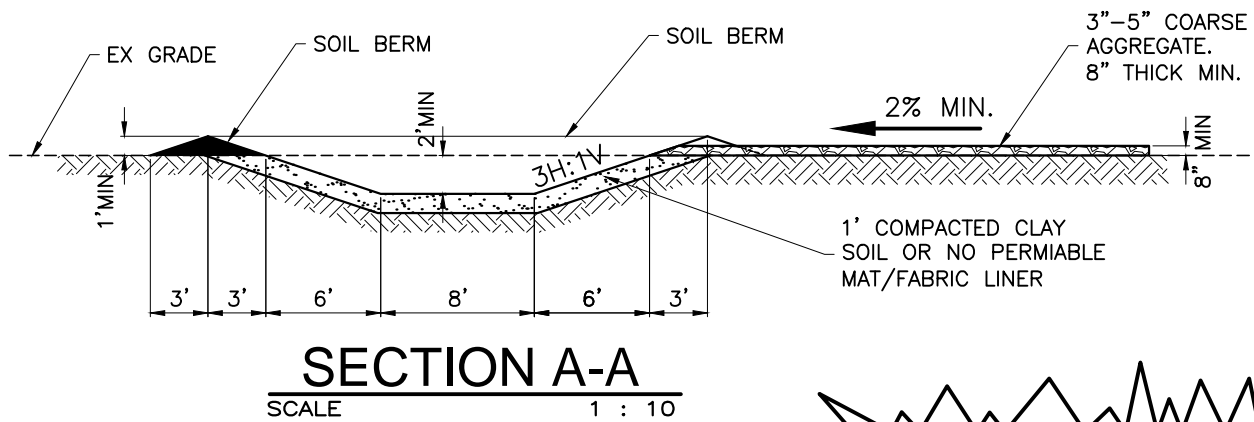
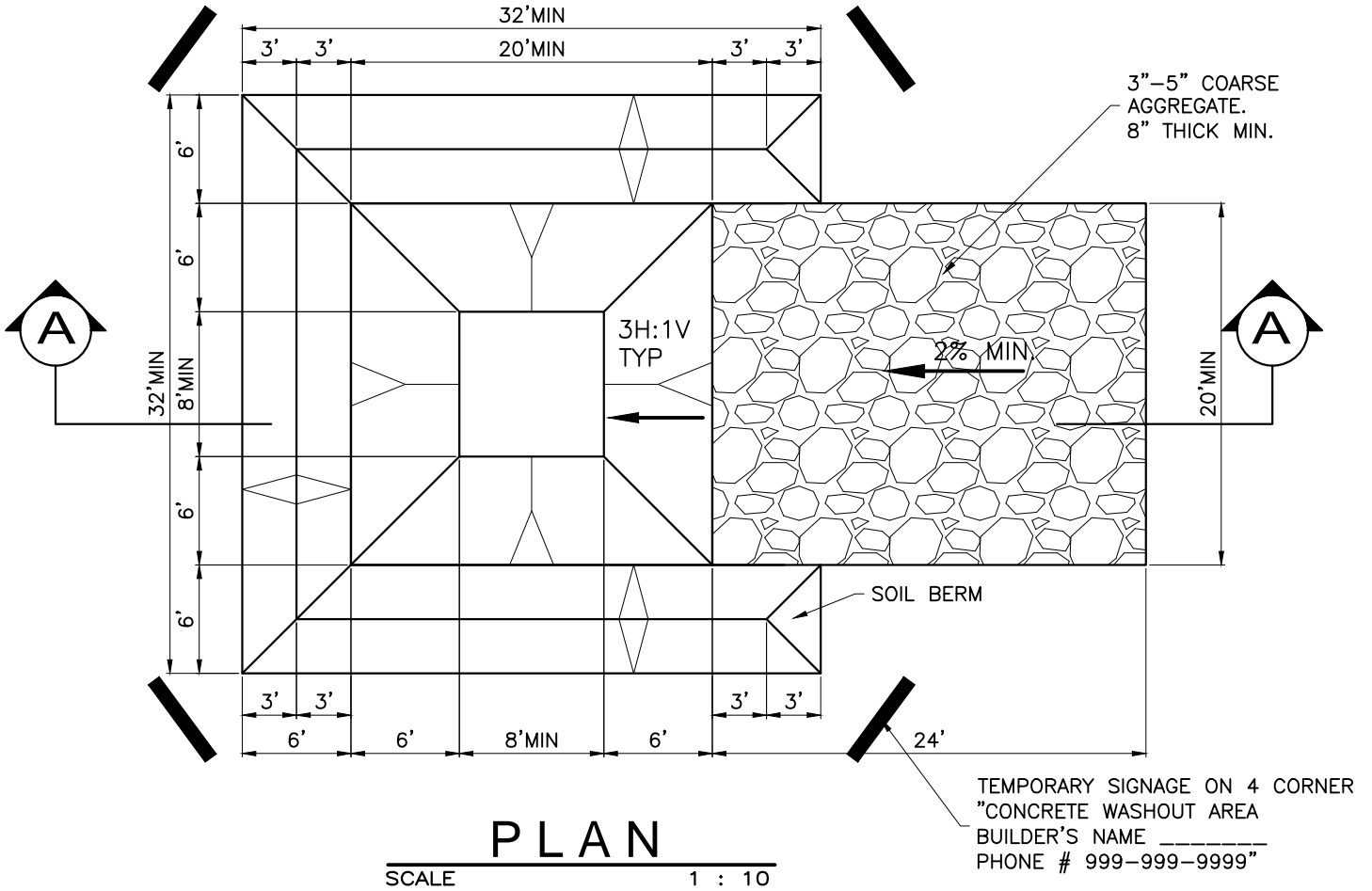
DEBRIS CONTAINMENT FOR RESIDENTIAL & COMMERCIAL LOTS

STANDARD CONSTRUCTION DETAILS EROSION CONTROL

DATE: APRIL 2003

REV DATE: AUG. 2006

SHEET : SD-EC06



SEE NOTES AT
SHEET SD-EC08



COMMERCIAL/RESIDENTIAL
CONCRETE WASHOUT PIT

STANDARD CONSTRUCTION DETAILS
EROSION CONTROL

DATE:
JAN 2018

REV DATE:

SHEET :
SD-EC07

Section 1: Definitions

1. Best Management Practices (BMP's) means schedules of activities of practices, maintenance procedures, structural controls, local ordinance, and other management practices to prevent or reduce the discharge of pollutants.
2. Responsible Party means the contractor, developer, subcontractor, concrete supply companies, and property owner that is working under the sites SW3P permit.
3. Construction Site means a subdivision, building lot, private property, easement, or city ROW, where a responsible party is performing any construction activity.

Section 2: Notes:

1. The responsible party shall direct all concrete truck drivers to the designated washout area for a construction site.
2. The concrete washout pit will be centrally located on a construction site, which is owned by the responsible party or responsible party has written permission to use for the above purpose.
3. When work is complete, the washout pit shall be cleaned up/disposed of in a legal manner and the site restored to existing/planned condition.
4. When a washout pit is filled with no more than 2' of material, the responsible party shall dispose of the material in a legal manner. At no time shall the responsible party fill the washout pit above the 1' berm surrounding the three sides of the pit.
5. Overflow of the wash-down water/concrete shall be discharged in an area protected by one or more sediment removal BMP's and shall be done in a manner that does not violate the City of Allen's stormwater ordinance.
6. Washout pits shall not be placed closer than 100 feet from a creek, stream, swale, pond, detention basin, or inlet without written approval from the city engineer.
7. The responsible party will follow all TCEQ and EPA requirements.

Section 3: Non-Compliance

1. Any responsible party not following the above requirements will receive a written violation in accordance with the city's stormwater ordinance.



COMMERCIAL/RESIDENTIAL CONCRETE WASHOUT PIT NOTES

STANDARD CONSTRUCTION DETAILS
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DATE:
JAN 2018

REV DATE:

SHEET :
SD-EC08