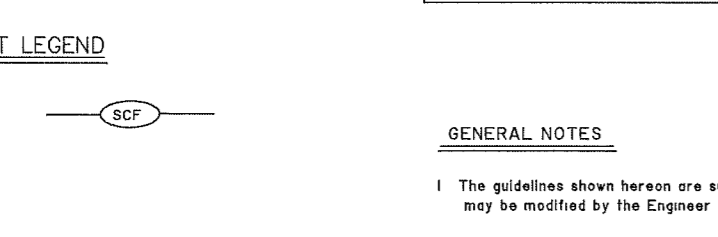
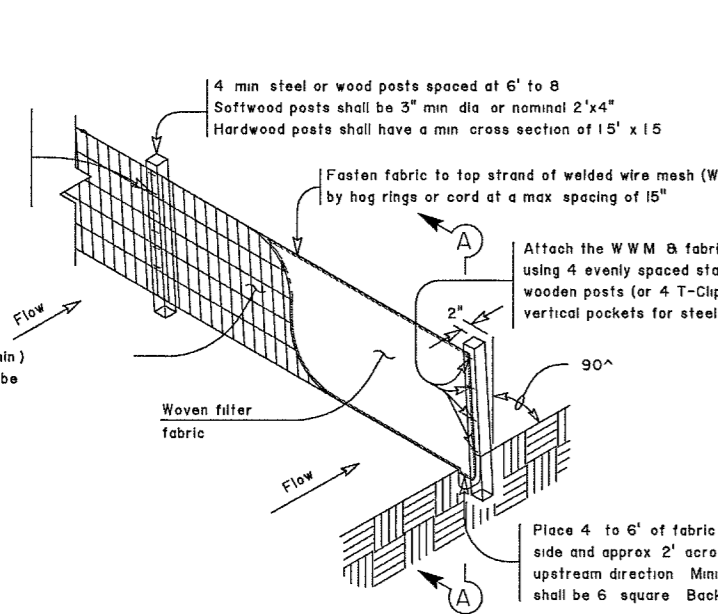


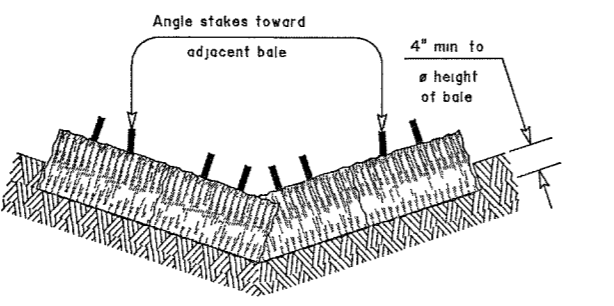
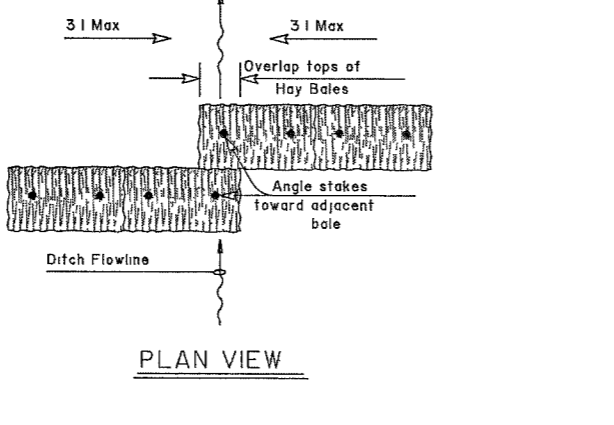
SEDIMENT CONTROL FENCE USAGE GUIDELINES
A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.
Sediment control fences should be sized to filter a maximum flow through rate of 100 GPM/FT. Sediment control fences are not recommended to control erosion from a drainage area larger than 2 acres.



GENERAL NOTES
1. The guidelines shown herein are suggestions only and may be modified by the Engineer.



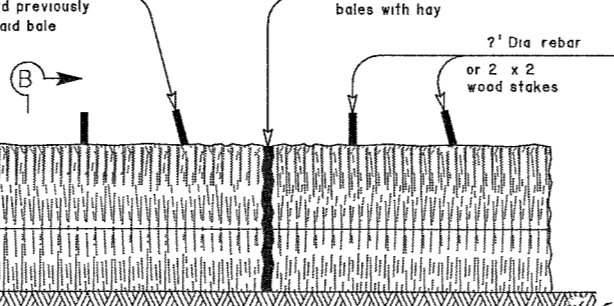
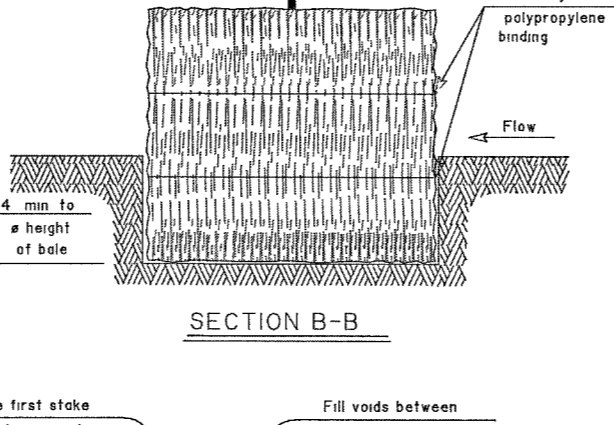
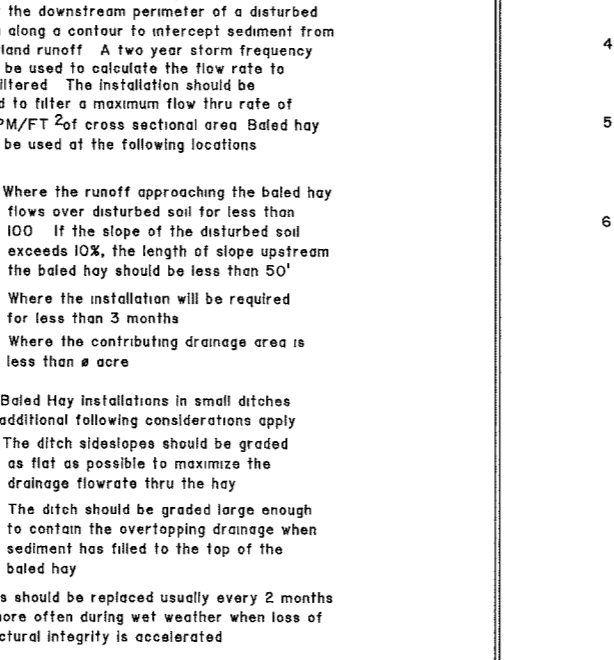
TEMPORARY SEDIMENT CONTROL FENCE



BALED HAY FOR EROSION CONTROL

GENERAL NOTES
1. Hay bales shall be a minimum of 50" in length and weigh a minimum of 500 lbs.
2. Hay bales shall be bound by either wire or nylon or polypropylene string. The bales shall be composed entirely of vegetable matter.
3. Hay bales shall be placed in a row with ends tightly abutting the adjacent bales. The bales shall be placed with bays parallel to the ground.
4. Hay bales shall be secured in place with 7 Dia rebar or 2" x 2" wood stakes driven through the bales. The first stake shall be angled forward the previously laid bale to tie the bales together.
5. The guidelines shown herein are suggestions only and may be modified by the Engineer.

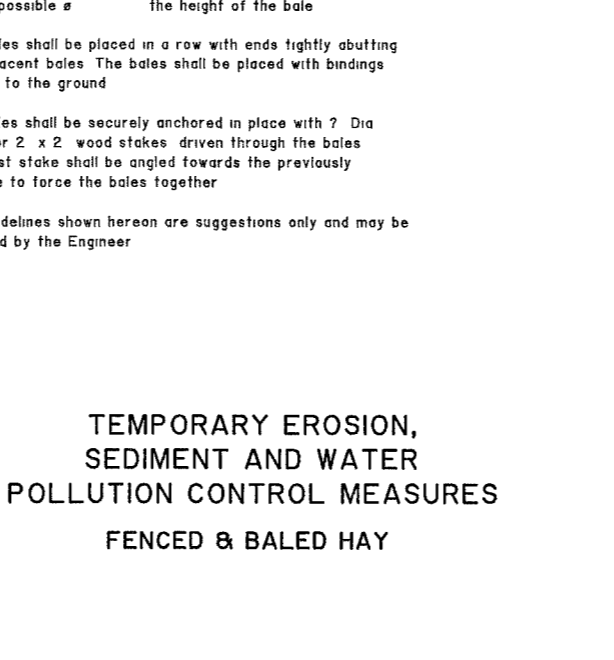
BALED HAY USAGE GUIDELINES
A Baled Hay installation may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A two year storm frequency may be used to calculate the flow rate to be filtered. The installation should be sized to filter a maximum flow through rate of 5 GPM/FT for cross sections area. Baled hay may be used at the following locations:
1. Where the runoff approaching the baled hay flows over disturbed soil for less than 100'. If the slope of the disturbed soil exceeds 10%, the length of slope upstream the baled hay should be less than 50'.
2. Where the installation will be required for less than 3 months.
3. Where the contributing drainage area is less than 4 acres.
For Baled Hay installations in small ditches the additional following considerations apply:
1. The ditch sideslopes should be graded to contain the overtopping drainage when sediment has filled to the top of the baled hay.
2. The ditch should be graded large enough to contain the overtopping drainage when sediment has filled to the top of the baled hay.
Bales should be replaced usually every 2 months or more often during wet weather when loss of structural integrity is considered.



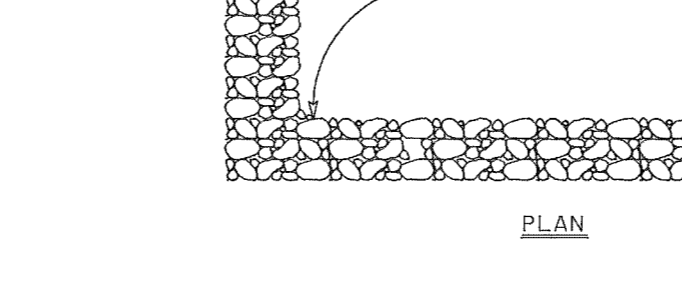
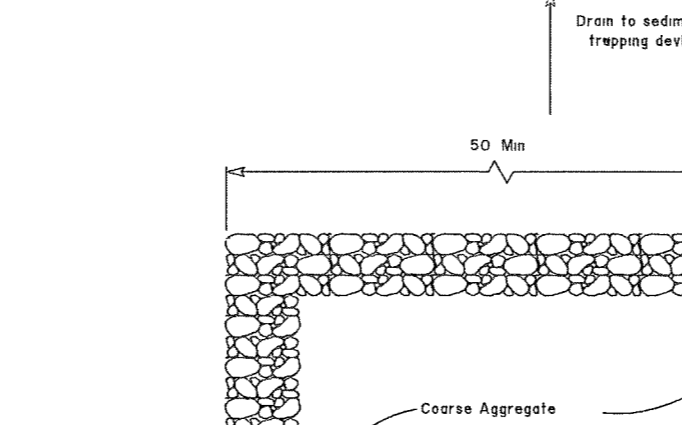
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES FENCED & BALED HAY

GENERAL NOTES
1. The length of the Type 1 construction exit shall be as indicated on the plans but not less than 50'.
2. The coarse aggregate should be open graded with a size of 1/2" to 6" and constructed as directed by the Engineer.
3. The approach transitions should be no steeper than 6:1 and constructed as directed by the Engineer.
4. The construction exit foundation course shall be flexible base bituminous concrete, portland cement concrete or other material as approved by the Engineer.
5. The construction exit shall be graded to allow drainage to a sediment trapping device.
6. The guidelines shown herein are suggestions only and may be modified by the Engineer.

CONSTRUCTION EXIT (TYPE 1)



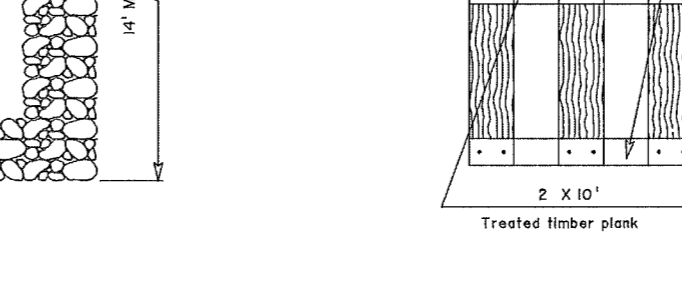
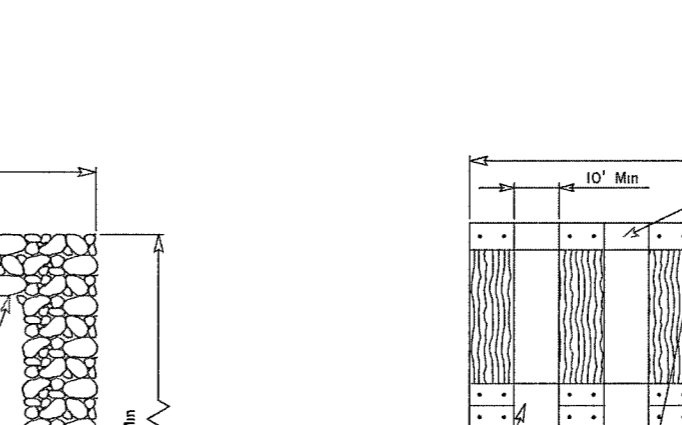
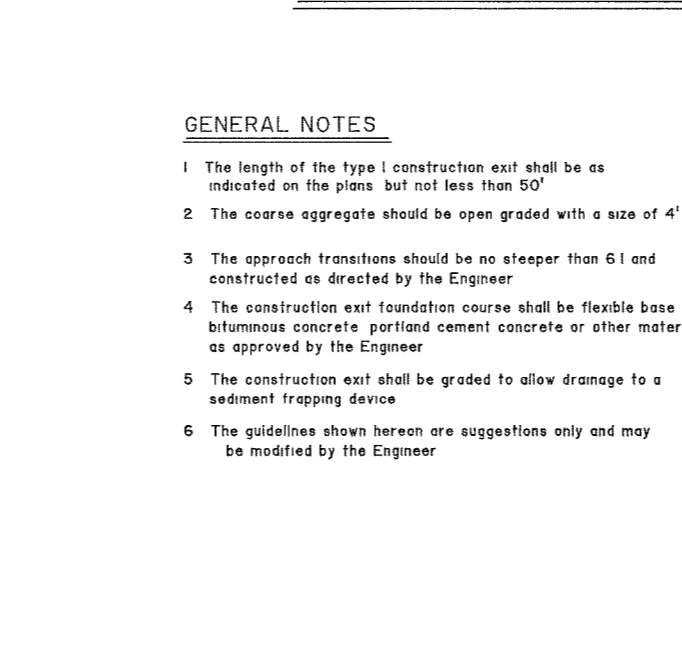
CONSTRUCTION EXIT (TYPE 2)



CONSTRUCTION EXIT (TYPE 1)

GENERAL NOTES
1. The length of the Type 2 construction exit shall be as indicated on the plans but not less than 50'.
2. The treated timber planks shall be attached to the retained fill with a 6" x 6" lag bolts. Other fasteners may be used as approved by the Engineer.
3. The treated timber planks shall be #2 grade and shall be free from large and loose knots.
4. The approach transitions shall be no steeper than 6:1 and constructed as directed by the Engineer.
5. The construction exit foundation course shall be flexible base bituminous concrete, portland cement concrete or other material as approved by the Engineer.
6. The construction exit shall be graded to allow drainage to a sediment trapping device.
7. The guidelines shown herein are suggestions only and may be modified by the Engineer.

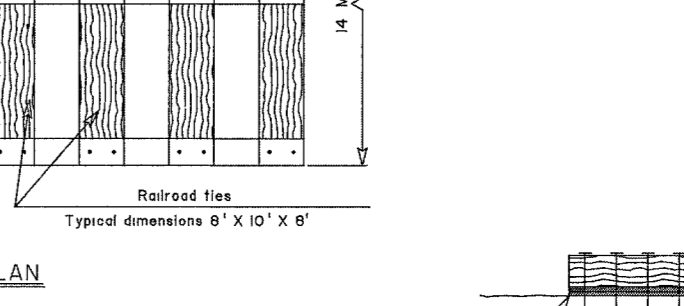
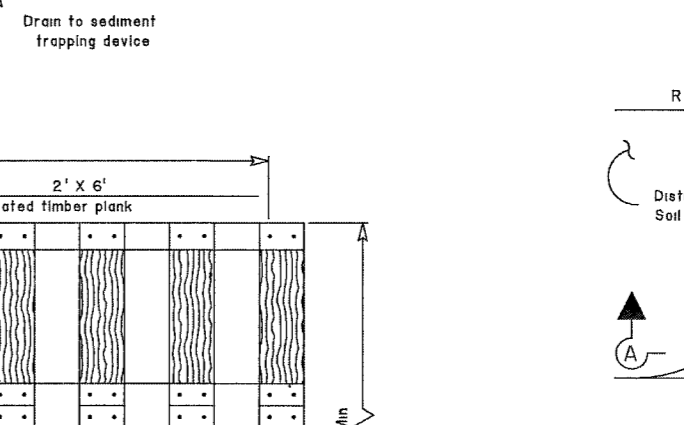
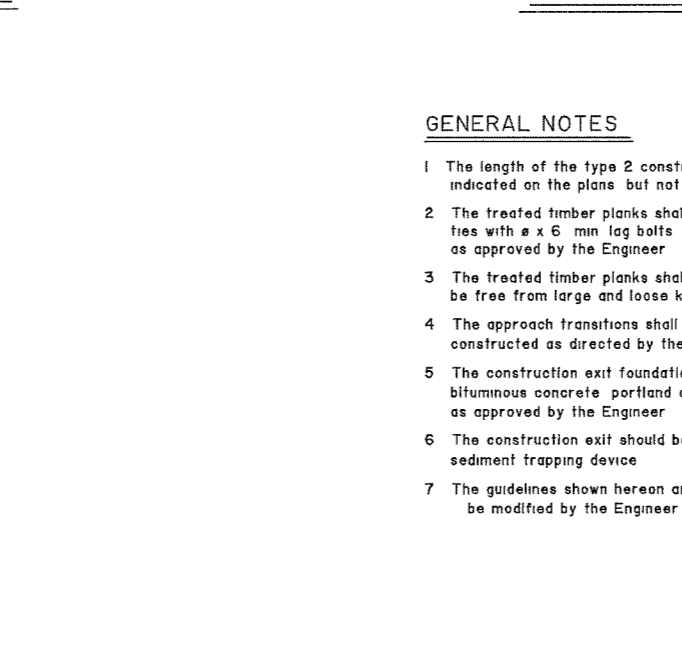
CONSTRUCTION EXIT (TYPE 2)



CONSTRUCTION EXIT (TYPE 1)

GENERAL NOTES
1. The length of the Type 3 construction exit shall be as shown on the plans or as directed by the Engineer.
2. The Type 3 construction exit may be constructed from open graded crushed stone with a size of two to four inches spread a min. of 4" thick to the limits shown on the plans.
3. The treated timber planks shall be #2 grade and shall be free from large and loose knots.
4. The guidelines shown herein are suggestions only and may be modified by the Engineer.

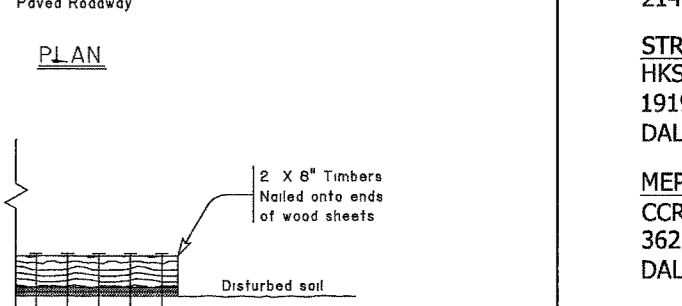
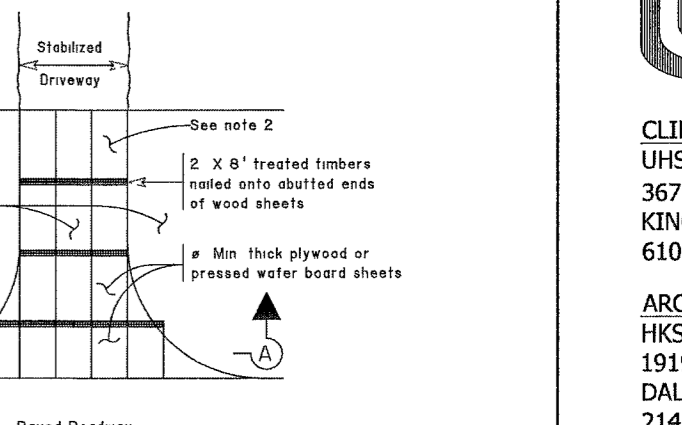
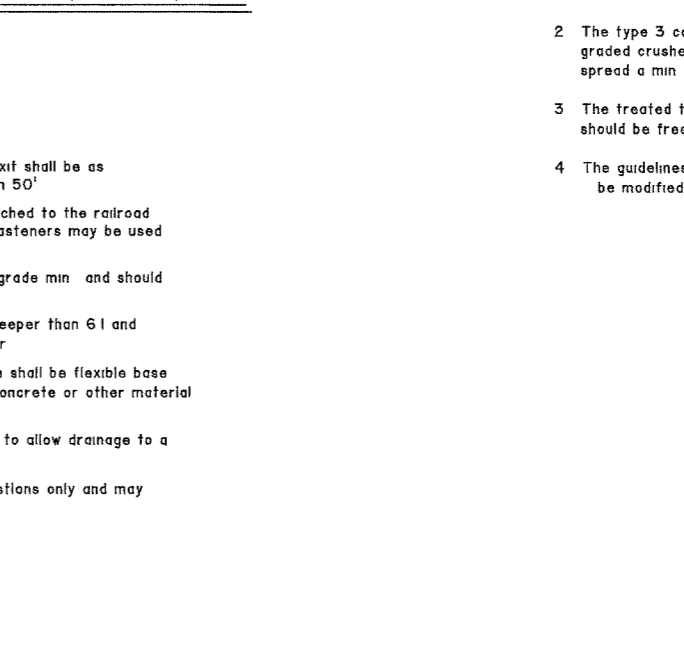
CONSTRUCTION EXIT (TYPE 3)



CONSTRUCTION EXIT (TYPE 1)

GENERAL NOTES
1. The length of the Type 3 construction exit shall be as shown on the plans or as directed by the Engineer.
2. The Type 3 construction exit may be constructed from open graded crushed stone with a size of two to four inches spread a min. of 4" thick to the limits shown on the plans.
3. The treated timber planks shall be #2 grade and shall be free from large and loose knots.
4. The guidelines shown herein are suggestions only and may be modified by the Engineer.

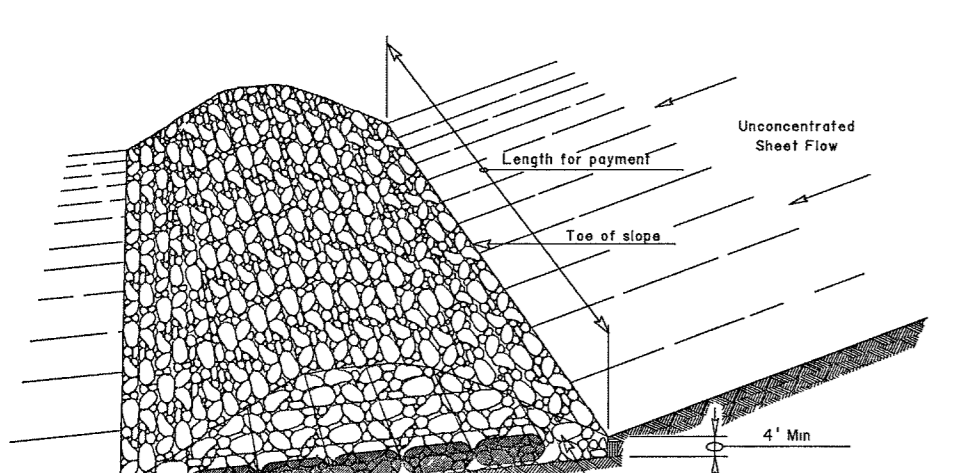
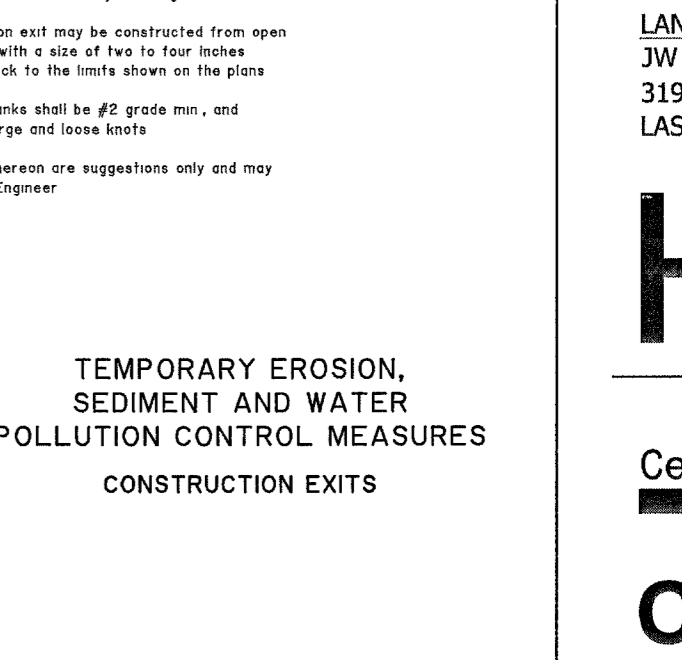
CONSTRUCTION EXIT (TYPE 3)



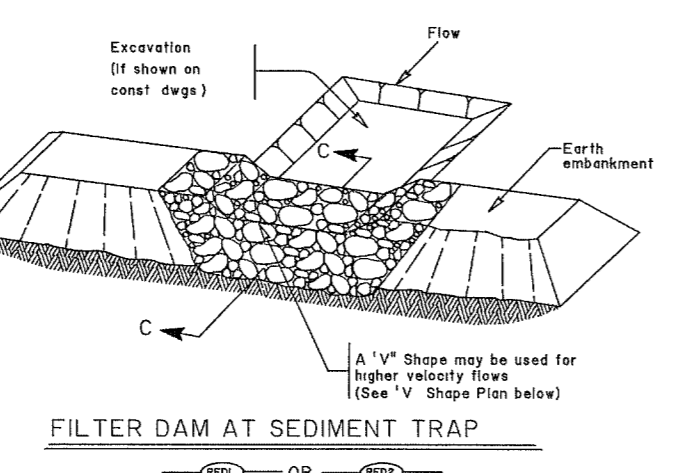
CONSTRUCTION EXIT (TYPE 1)

GENERAL NOTES
1. The length of the Type 3 construction exit shall be as shown on the plans or as directed by the Engineer.
2. The Type 3 construction exit may be constructed from open graded crushed stone with a size of two to four inches spread a min. of 4" thick to the limits shown on the plans.
3. The treated timber planks shall be #2 grade and shall be free from large and loose knots.
4. The guidelines shown herein are suggestions only and may be modified by the Engineer.

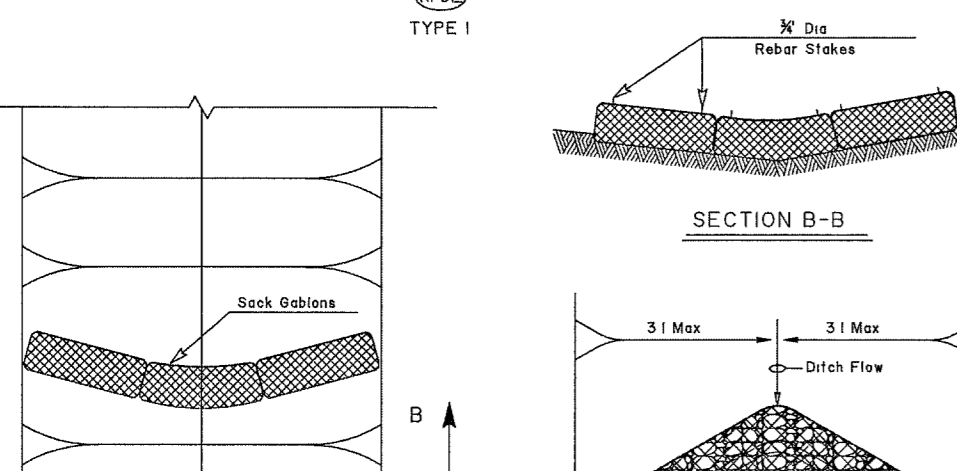
CONSTRUCTION EXIT (TYPE 3)



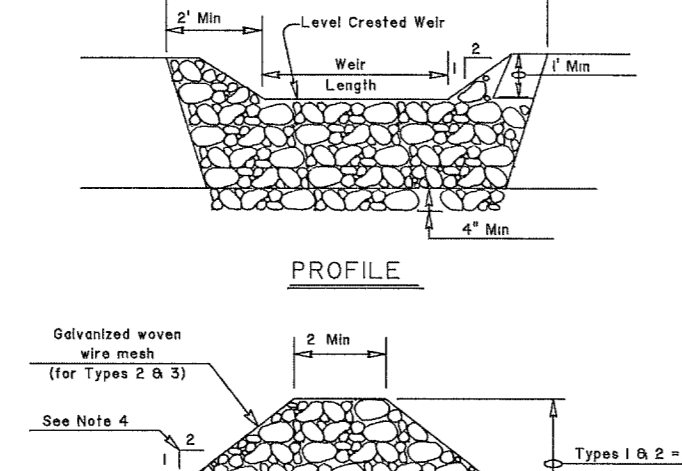
FILTER DAM AT SEDIMENT TRAP



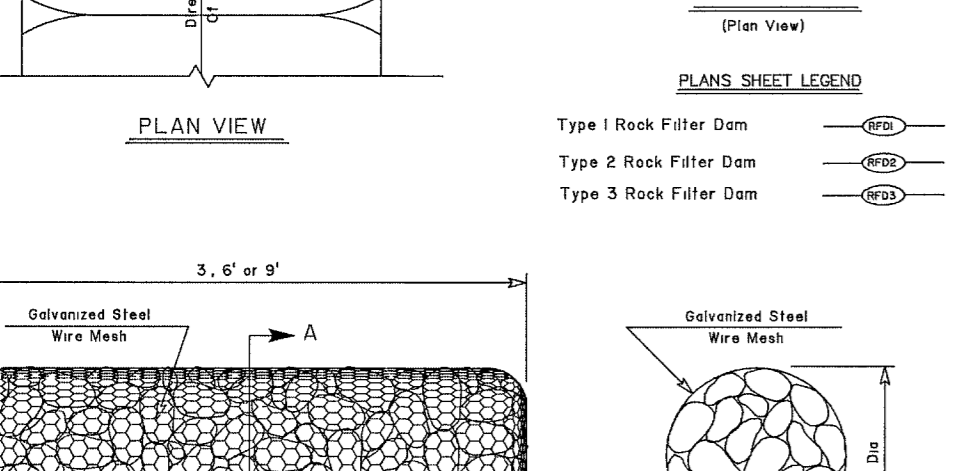
FILTER DAM AT CHANNEL SECTIONS



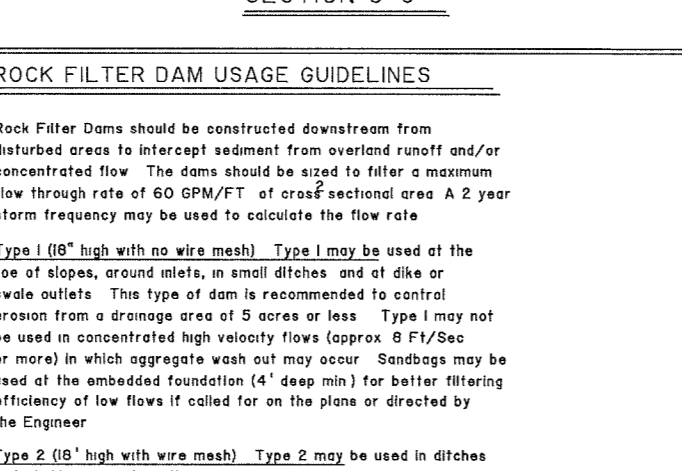
FILTER DAM AT TOE OF SLOPE



FILTER DAM AT CHANNEL SECTIONS



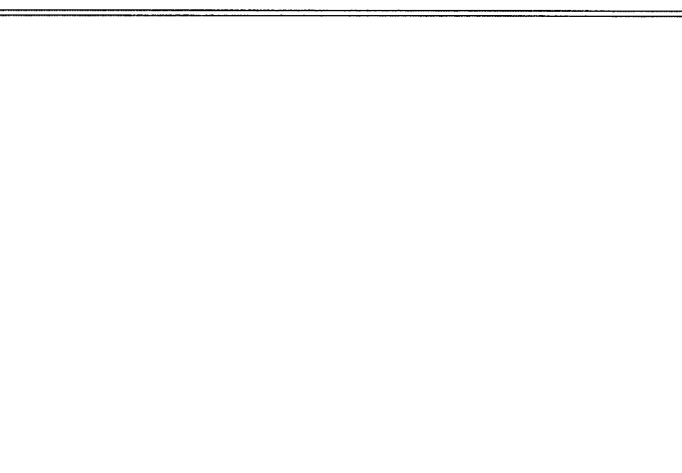
SECTION B-B



SECTION C-C

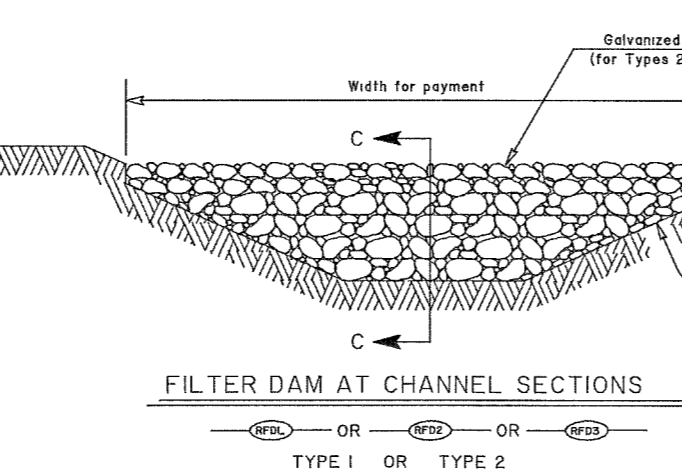


PLAN VIEW

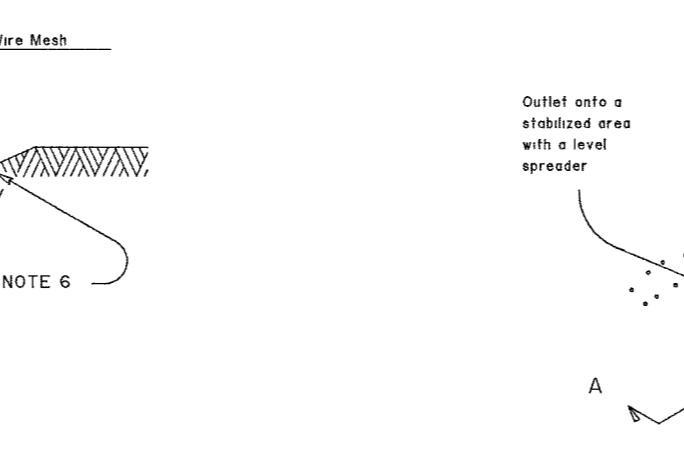


SECTION A-A

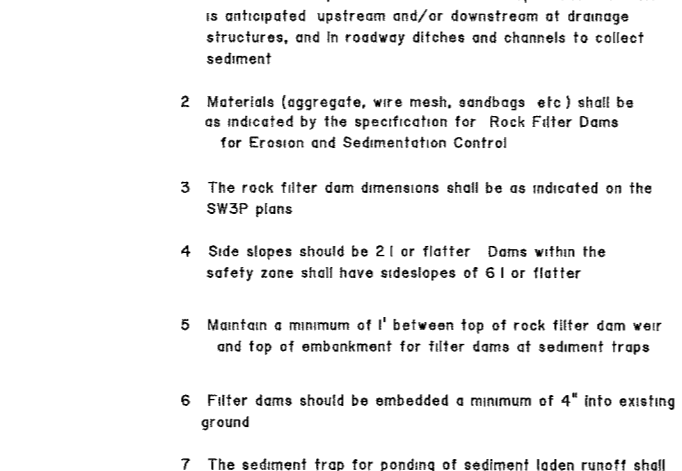
ROCK FILTER DAM USAGE GUIDELINES
Rock Filter Dams should be constructed downstream from disturbed areas to intercept sediment from overland runoff and/or concentrated flow. The dam should be sized to filter a maximum flow through rate of 60 GPM/FT of cross-sectional area. A 2 year storm frequency may be used to calculate the flow rate.
Type 1 (6" high with no wire mesh) Type 1 may be used at the toe of slopes, around inlets, in small ditches, and at dikes or levee outlets. This type of dam is recommended to control erosion from a drainage area of 2 acres or less. Type 1 may not be used in concentrated high velocity flow (topex 0.75 ft/sec or more) in which aggregate wash out may occur. Sandbags may be used at the embedded foundation (4" deep min) for better filtering efficiency of low flow if used for on the slope or directed by the Engineer.
Type 2 (12" high with wire mesh) Type 2 may be used in ditches and at dikes or levee outlets.
Type 3 (18" high with wire mesh) Type 3 may be used in stream flow and should be secured to the stream bed.
Type 4 (Sack gabions) Type 4 may be used in ditches and smaller channels to form an erosion control dam.



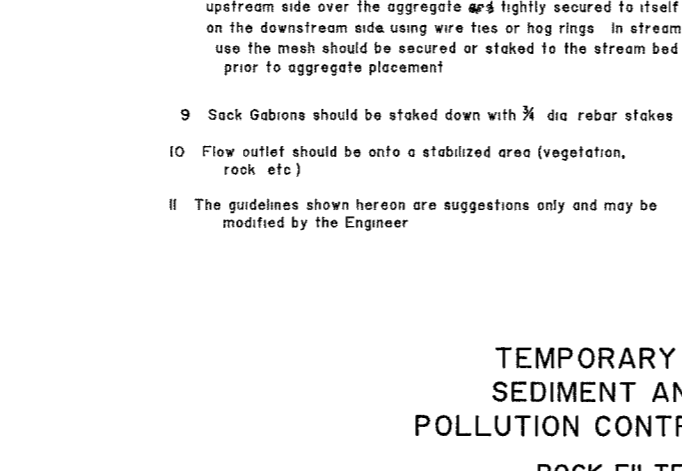
SEDIMENT BASIN AND/OR TRAP WITH PIPE OUTLET



DROP INLET SEDIMENT TRAP



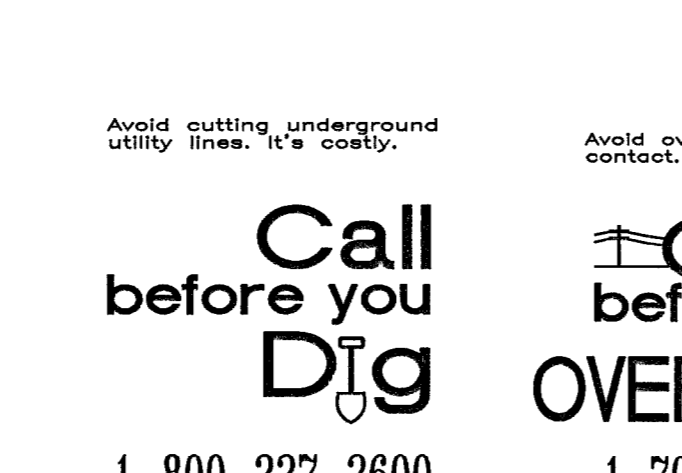
CURB INLET SEDIMENT TRAP



SEDIMENT TRAP WITH LEVEL STABILIZED OUTLET

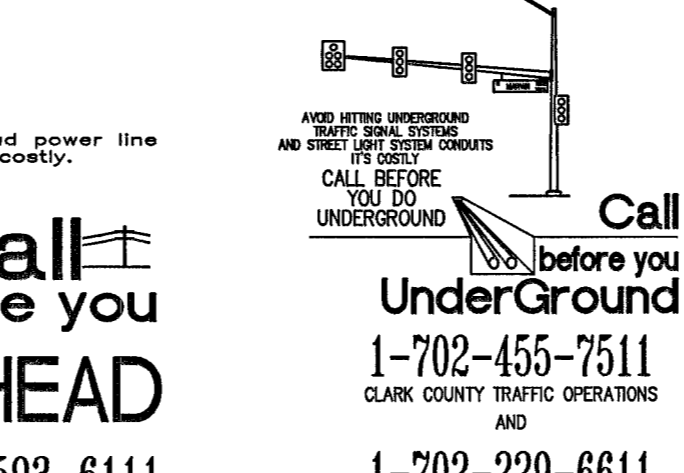


SEDIMENT TRAP WITH LEVEL STABILIZED OUTLET



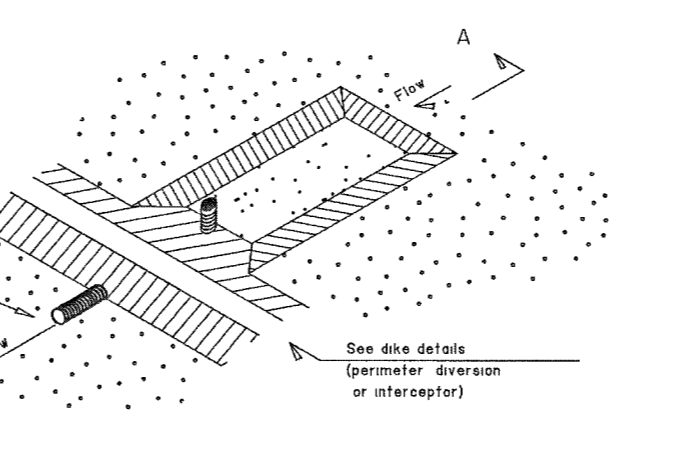
SEDIMENT TRAP WITH LEVEL STABILIZED OUTLET

SEDIMENT BASIN & TRAP USAGE GUIDELINES
A sediment basin and/or trap may be used to precipitate sediment out of runoff draining from an un stabilized area.
Basins: The drainage area for a sediment basin should not exceed 100 acres. The basin capacity shall be at least 1000 CF/Acre (10' over the drainage area).
The basin should have a 40 hour draw-down time with an emergency spillway. The spillway may be designed to pass the peak rate of runoff from a 25 year frequency storm. The 100 year storm should be investigated to consider possible flooding impacts.
Traps: The drainage area for a sediment trap should not exceed 5 acres. The trap capacity should be 1000 CF/Acre (10' over the drainage area).
Sediment traps should be placed in the following locations:
1. Within drainage ditches spaced at 500' on center.
2. Immediately preceding ditch inlets.
3. Just before the drainage enters a water course.
4. Just before the drainage leaves the right of way.
The trap inlet may either be through a perforated curb and pipe assembly (designed to achieve a 40 hour draw-down time or over a level stabilized area (vegetation, rock etc).
The trap should be cleaned when the capacity has been reduced by 4" or the sediment has accumulated to a depth of 1'.

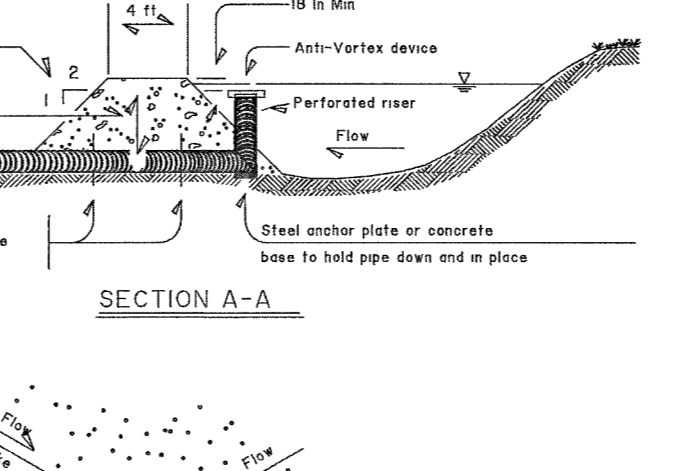


SEDIMENT TRAP WITH LEVEL STABILIZED OUTLET

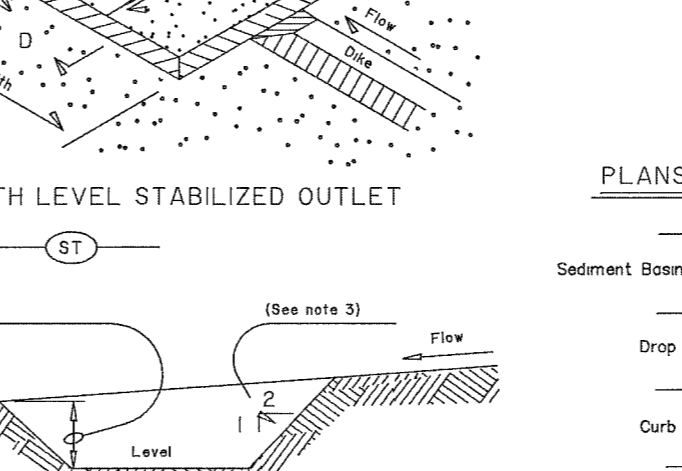
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES (EARTHWORK FOR EROSION CONTROL)



TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES (EARTHWORK FOR EROSION CONTROL)



TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES (EARTHWORK FOR EROSION CONTROL)

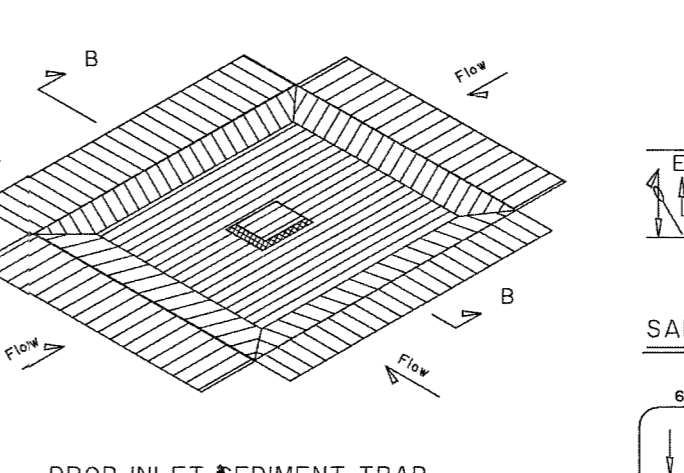


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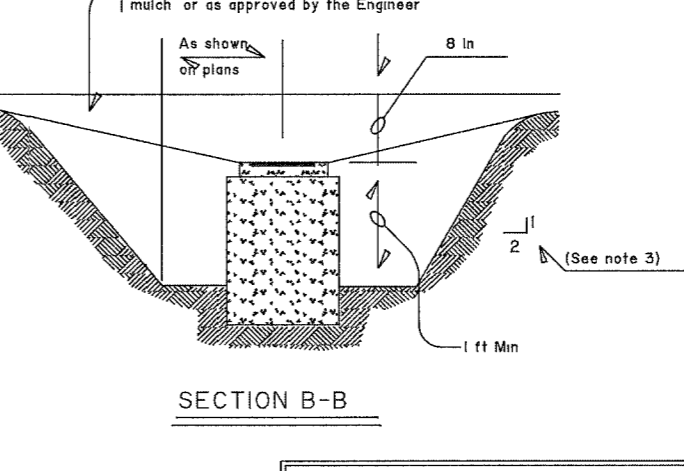


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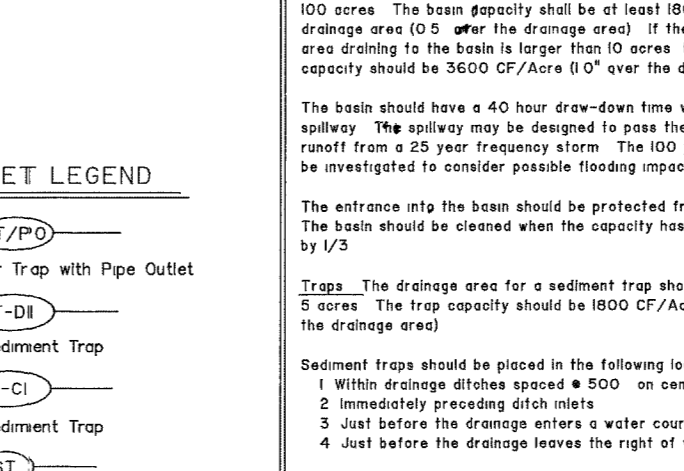
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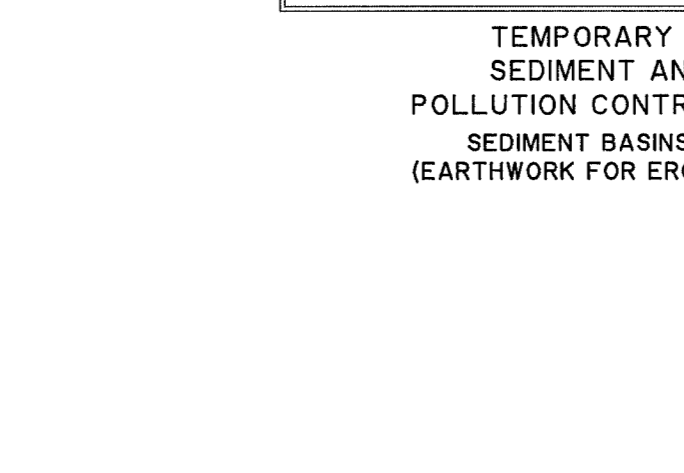
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES (EARTHWORK FOR EROSION CONTROL)



TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES (EARTHWORK FOR EROSION CONTROL)

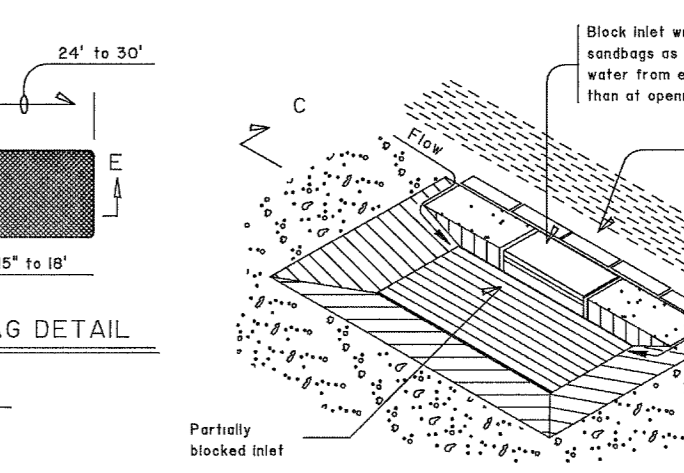


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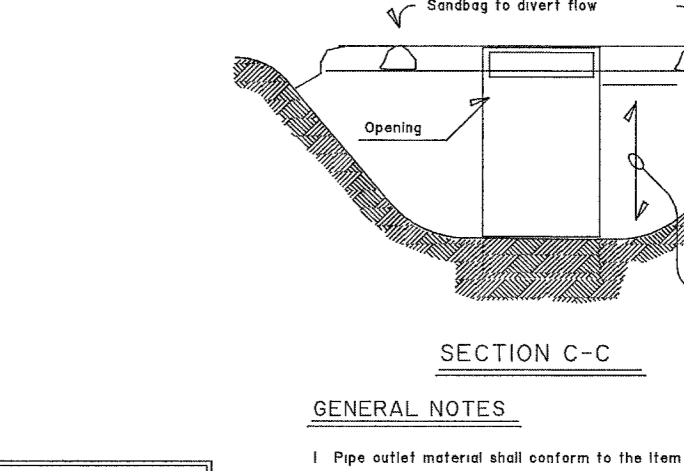


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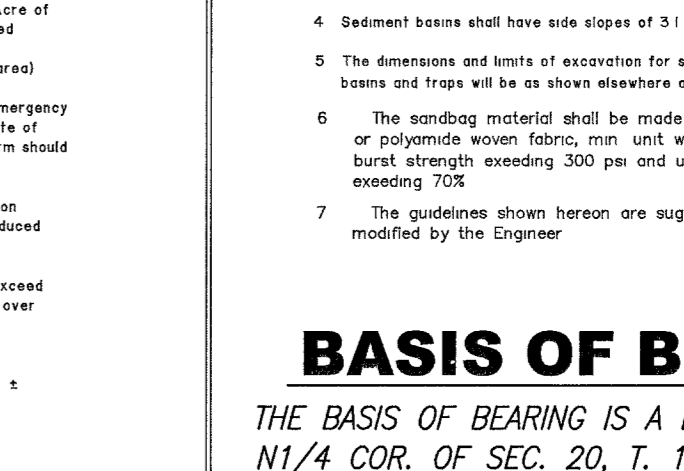
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES (EARTHWORK FOR EROSION CONTROL)



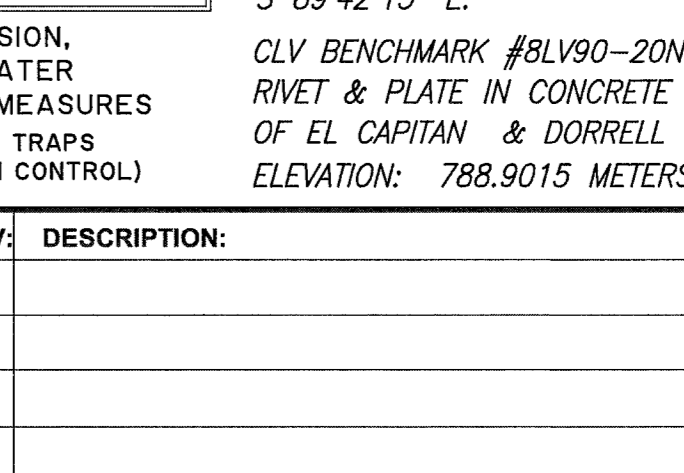
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES (EARTHWORK FOR EROSION CONTROL)



TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES (EARTHWORK FOR EROSION CONTROL)

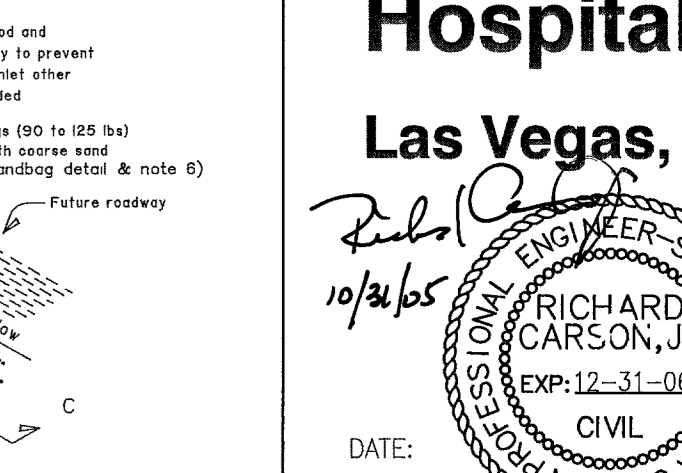


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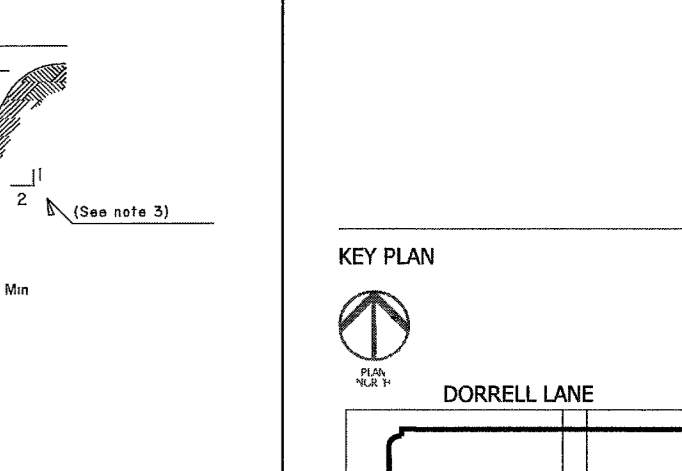


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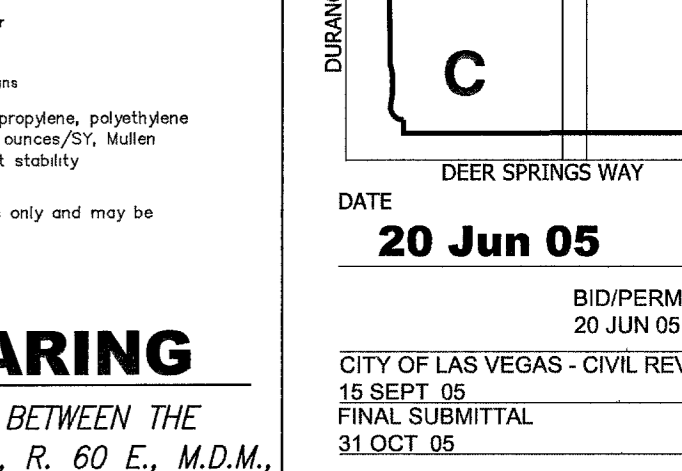
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES (EARTHWORK FOR EROSION CONTROL)



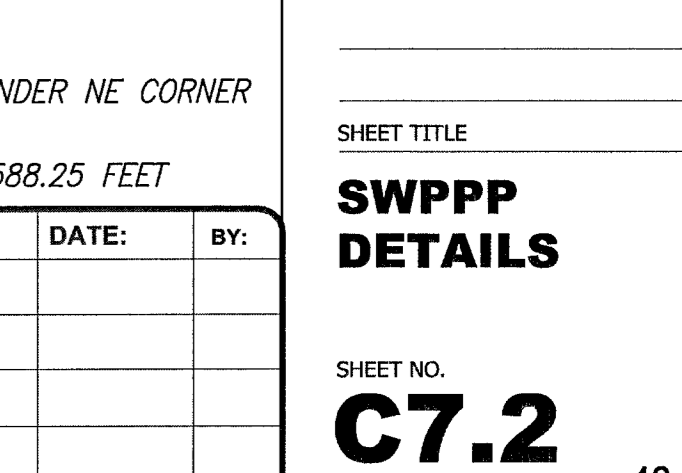
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES (EARTHWORK FOR EROSION CONTROL)



TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES (EARTHWORK FOR EROSION CONTROL)



TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES (EARTHWORK FOR EROSION CONTROL)



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TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES (EARTHWORK FOR EROSION CONTROL)

REV	DESCRIPTION	DATE	BY