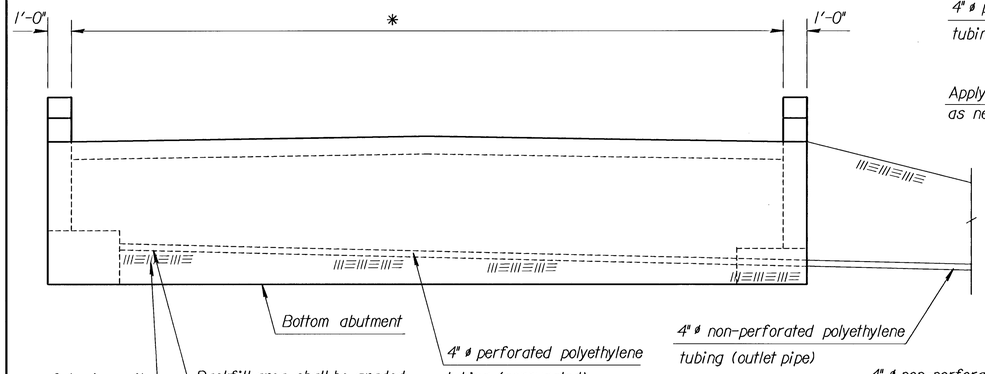
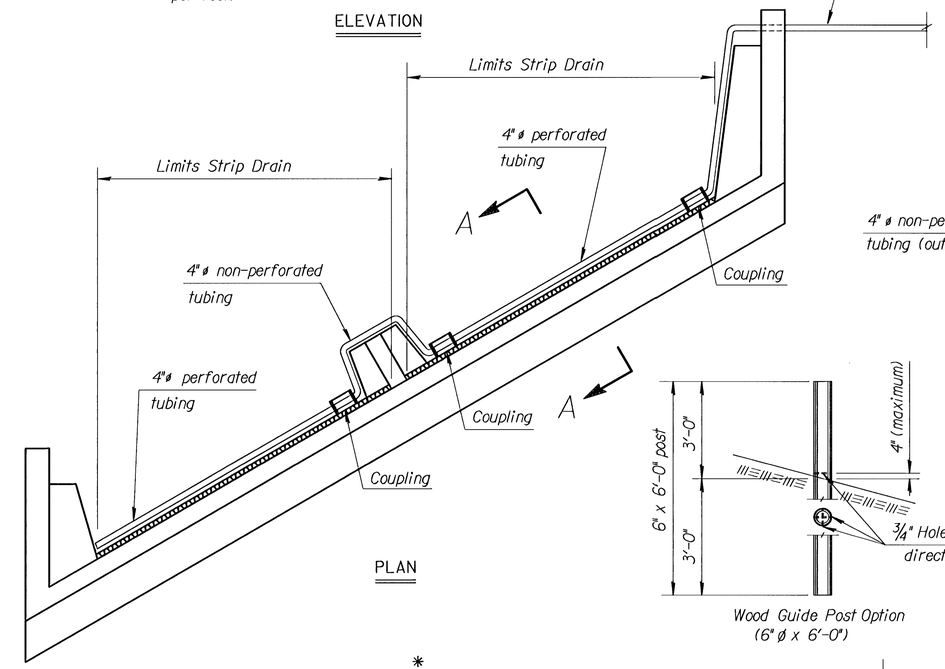
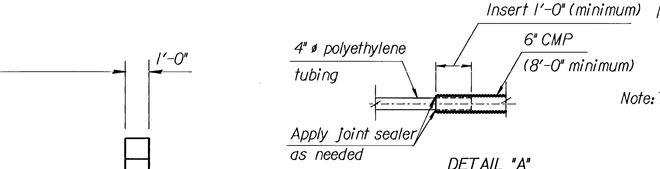
FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	96085	1998	11	23



ELEVATION



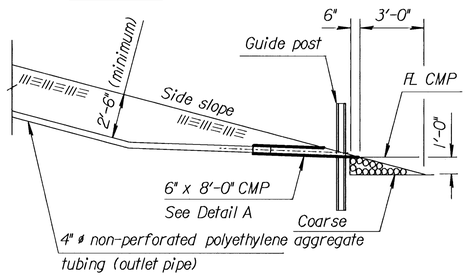
PLAN

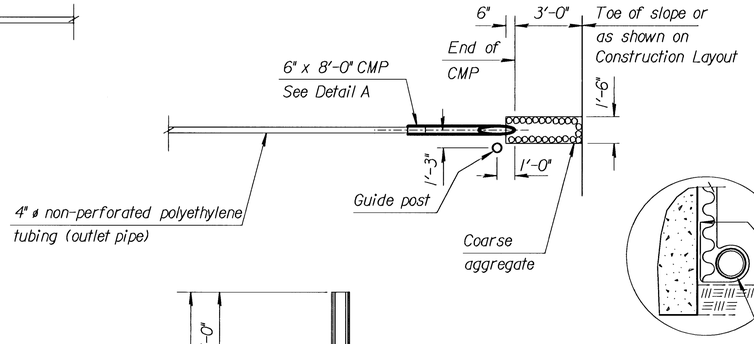


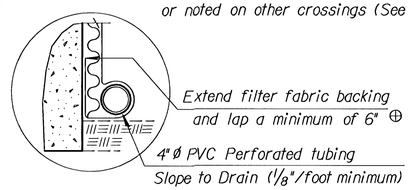
Note: Place the CMP flowline 1'-0" above ditch flowline, toe of sideslope, or as shown on the Construction Layout.

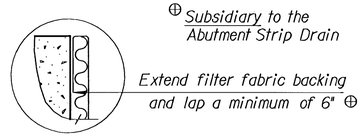
Note: The 1'-0" lap and Joint sealer may be replaced by a reducing coupler at the Junction of the CMP and the 4" round polyethylene tubing.

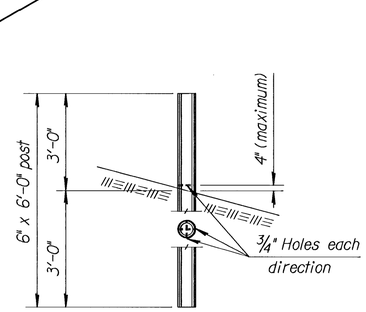
DETAIL "A"



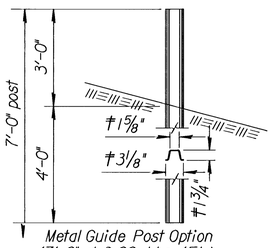






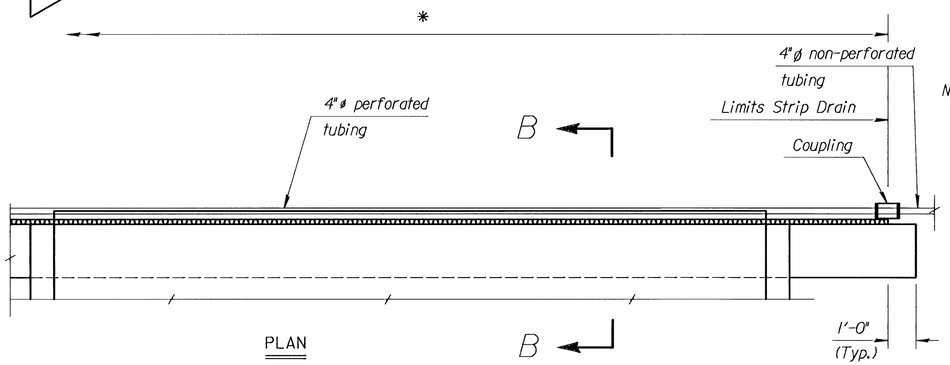


Wood Guide Post Option
(6" ø x 6'-0")



Metal Guide Post Option
(7'-0" at 3.00 Lbs./Ft.)
Flanged channel

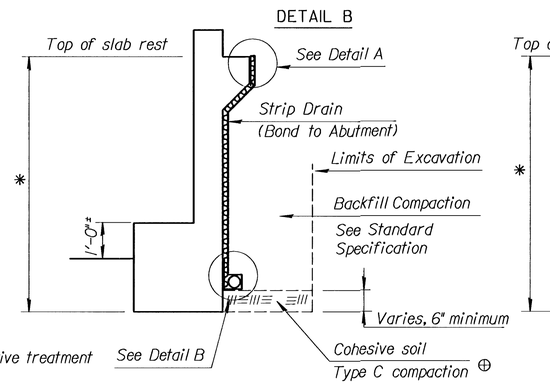
† Nominal dimension.



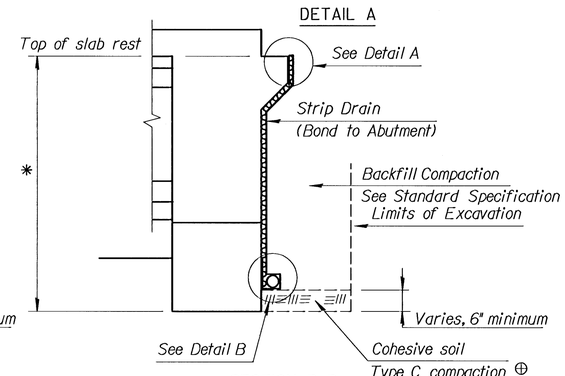
PLAN

GUIDE POST

Note: Wood guide posts shall be given a preservative treatment as provided in the KDOT Specifications.
Reflectorized material will be applied to the post by the State.
The top 18" of the posts shall be given 2 coats of aluminum paint and the top 12" of the post shall be given one coat of International Orange Enamel paint.
Only one type of preservative treatment may be used on a project.
Metal guide posts shall meet the requirements of the KDOT Specifications.
Metal post shall have a galvanized or baked enamel coating and the upper 12" of each post shall receive a coat of International Orange Enamel paint.



SECTION A-A



SECTION B-B

*Limits of Bridge Backwall Protection System (by Bridge Contractor)

GENERAL NOTES

ABUTMENT STRIP DRAIN: The Bridge Contractor shall excavate to the limits shown ~~on the Bridge Excavation sheet~~, grade the bottom of the backfill area, place the strip drain, and place the perforated pipe, the outlet pipe, the CMP, and the backfill. Guide post and coarse aggregate are subsidiary to this bid item. Guide post and coarse aggregate are not required if the CMP empties onto riprap.

BRIDGE BACKWALL PROTECTION SYSTEM: Apply a Bridge Backwall Protective System to the approach side of the abutments and the wings in accordance with KDOT Specifications and the manufacturer's recommendations. Cover the abutments and wings to the limits shown on the details. Prior to backfilling, repair any damage done to the system at no charge to the state.

Perforated pipe shall be placed next to the strip drain. Outside the limits of the strip drain, non-perforated pipe shall be used. Care shall be taken to enclose the perforated pipe with the extension of the filter fabric.

Compaction shall be required at abutments. See KDOT Specifications.

The Abutment Strip Drain material shall meet the requirements of KDOT Specifications.

Perforated pipe and non-perforated outlet pipe shall be corrugated polyethylene tubing and shall meet the requirements of KDOT Specifications.

The CMP end section shall be fitted with a 1/4" galvanized mesh screen to prevent the entrance of rodents. The Joint between the outlet pipe and end section shall be sealed with a Joint sealer. Coarse aggregate shall be placed at the outlet end as shown.

The bottom surface of the excavated area shall be graded to drain and backfilled with a cohesive type soil. The soil should be a silty clay or clay under the Kansas Classification System with a minimum plasticity index of 20. The material shall be compacted to conform to Type C compaction.

The outlet pipe shall be placed on the downstream side of structures over streams and as shown or noted on other crossings (See Construction Layout sheet).

SUMMARY OF QUANTITIES		
Abutment Strip Drain	48	Sq. Yds.
Bridge Backwall Protection System	56	Sq. Yds.
Items Subsidiary to Strip Drain		
4"ø Perforated Pipe	86	Lin. Ft.
4"ø Outlet Pipe	60	Lin. Ft.
6"ø CMP	16	Lin. Ft.

NO.	DATE	REVISIONS	BY	APP'D
5	6-10-96	Limits of Bridge Backwall Protection	LRR	KFH
4	2-24-94	Bridge Backwall Protection Sys.	LRR	KFH
3	2-10-93	Compaction becomes subsidiary	LRR	KFH

KANSAS DEPARTMENT OF TRANSPORTATION

ABUTMENT STRIP DRAIN

~~BRI02A~~

FHWA APPROVAL	3-16-94	APP'D	KENNETH F. HURST
DESIGNED	DETAILED GFK	QUANTITIES	TRACED
DESIGN CK.	DETAIL CK. LRR	QUAN.CK.	TRACE CK.

Plotted By : $$USERNAME$$ Std.Base File : /usr2/stand/us/br102a
Plot File : $$$$$$$$$$$$$$DGNSPEC$$$$$$$$$$$$$$ Server File : /usr2/
Plot Date : $$$$$$SYTIME$$$$$$ Server : witch
View= PLOT1