

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.

COAL-TAR MEMBRANE PROTECTIVE COAT: The Bridge Contractor shall coat the earth side of the wingwalls and the abutment backwalls to the limits shown with a coal-tar membrane protective coat in accordance with the KDOT Specifications. This work shall be completed by the Contractor immediately after the abutment concrete has cured and prior to backfilling. Any damage done to the Coal-Tar Membrane shall be repaired at no extra cost 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).

* Subsidiary to the Abutment Strip Drain

Extend filter fabric backing and lap a minimum of 6"

4" PVC Perforated tubing
Slope to Drain (1/8"/foot minimum)

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

DETAIL "A"

4" polyethylene tubing
Apply joint sealer as needed
6" CMP (8'-0" minimum)
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.
Guide post
Side slope
Coarse aggregate
6" x 8'-0" CMP See Detail A
4" non-perforated polyethylene tubing (outlet pipe)

6" x 8'-0" CMP See Detail A
End of CMP
Toe of slope or as shown on Construction Layout
Guide post
Coarse aggregate
4" non-perforated polyethylene tubing (outlet pipe)

7'-0" post
4'-0"
3'-0"
1 1/8"
1 3/8"
1 1/4"
Metal Guide Post Option (7'-0" at 3.00 Lbs./Ft.)
Flanged channel
† Nominal dimension.
3/4" Holes each direction
4" (maximum)
6" x 6'-0" post
3'-0"
3'-0"

Wood Guide Post Option (6" x 6'-0")

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.

DETAIL B
Top of slab rest
Strip Drain (Bond to Abutment)
Limits of Excavation
Backfill Compaction See Standard Specification
Varies, 6" minimum
Cohesive soil Type C compaction
See Detail B

SECTION A-A
* Limits of Coal-Tar Membrane Protective Coat (by Bridge Contractor)

SUMMARY OF QUANTITIES	
Abutment Strip Drain	150 Sq. Yds.
Coal-Tar Membrane Protective Coat	200 Sq. Yds.
Items Subsidiary to Strip Drain	
4" Perforated Pipe	155 Lin. Ft.
4" Outlet Pipe	70 Lin. Ft.
6" CMP	16 Lin. Ft.

DETAIL A
Top of slab rest
Strip Drain (Bond to Abutment)
Backfill Compaction See Standard Specification Limits of Excavation
Varies, 6" minimum
Cohesive soil Type C compaction
See Detail B

SECTION B-B

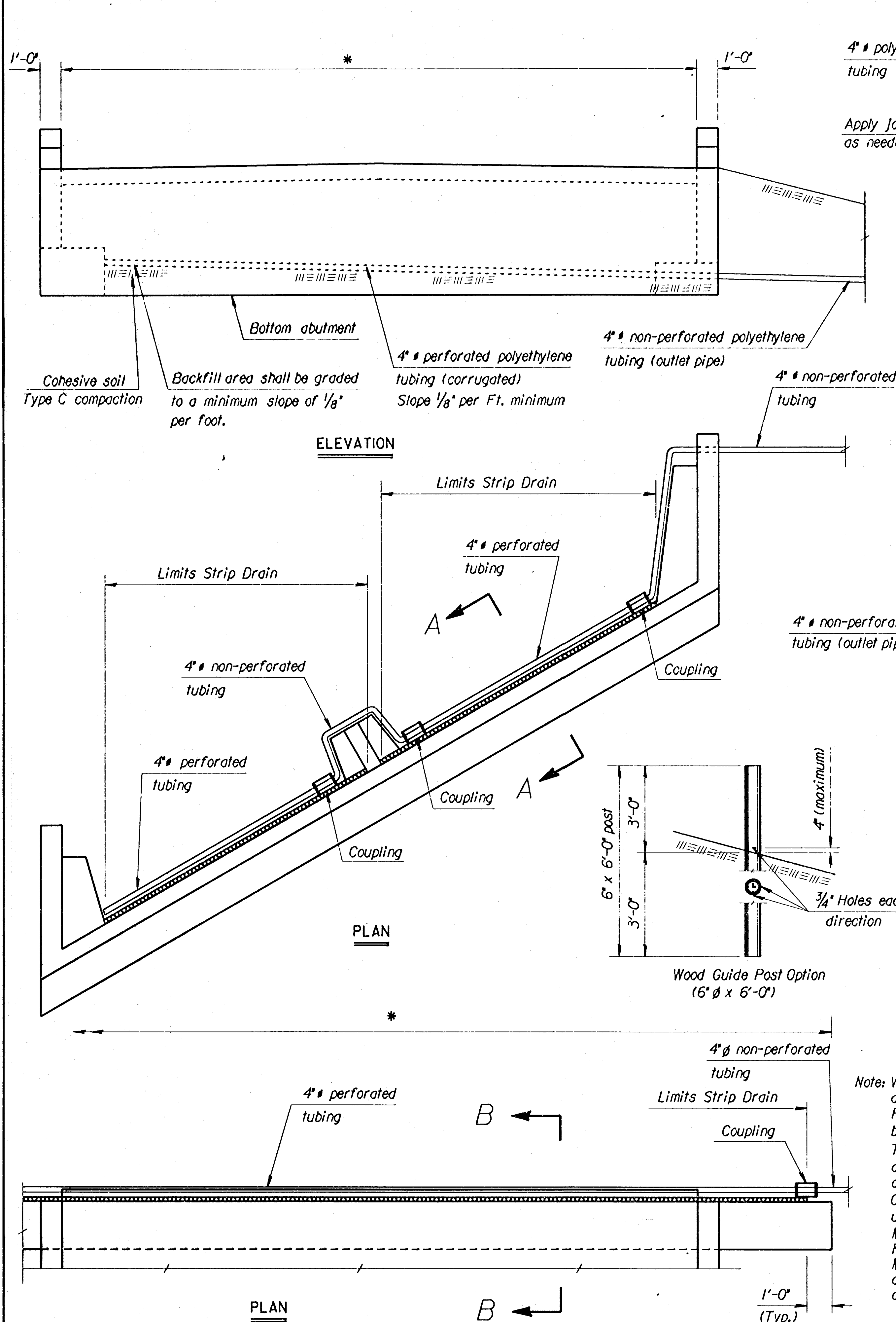
NO.	DATE	REVISIONS	BY	APP'D
2	2-14-92	Expanded strip drain & CTM	LRR	KFH
1	4-6-90	Add Steel Guide Post Option	LRR	KFH

KANSAS DEPARTMENT OF TRANSPORTATION

ABUTMENT STRIP DRAIN

STD. NO. 102

DESIGNED	3-10-92	APP'D	KENNETH F. HURST
DESIGN CK.	DETAIL CK.	GFI QUANTITIES	TRACED
		LRR QUAN. CK.	TRACE CK.



DATE	DATE	DATE	DATE	DATE	DATE
DESIGN	DESIGN	DESIGN	DESIGN	DESIGN	DESIGN
DETAIL	DETAIL	DETAIL	DETAIL	DETAIL	DETAIL
QUANTITIES	QUANTITIES	QUANTITIES	QUANTITIES	QUANTITIES	QUANTITIES
TRACING	TRACING	TRACING	TRACING	TRACING	TRACING

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Plotted : 23-MAR-1992 08:59	