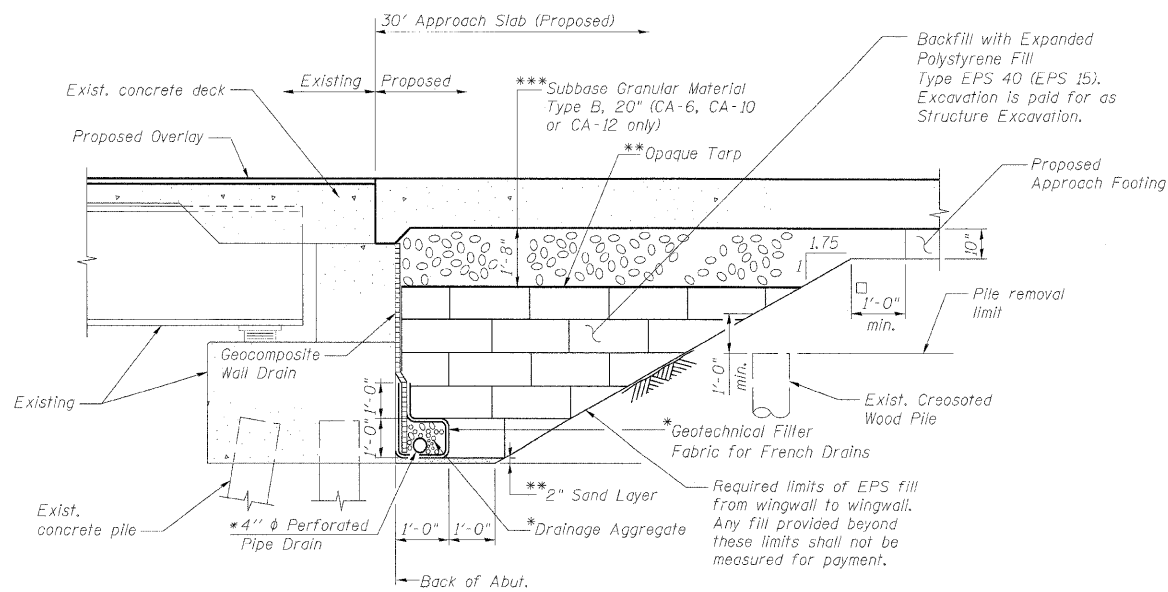


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ABUTMENT STABILIZATION DETAIL

(Horiz. dim. @ Rt. L's)

* Included in the cost of Pipe Underdrains for Structures.

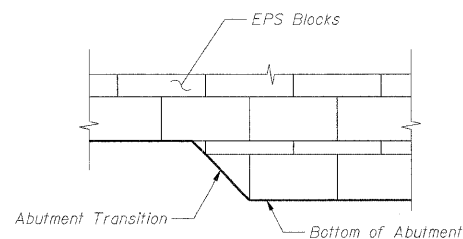
** Included in the cost of Expanded Polystyrene Fill.

*** Included in the cost of Concrete Superstructure. See Approach Slab Details.

All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0" from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 60110).

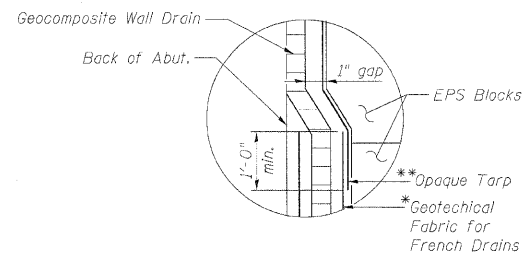
Existing approach slabs are supported on creosoted wood piles. The piles shall be removed down a minimum of 1'-0" below the limits of structure excavation. Cost included in Structure Excavation.

- Limit the depth of the EPS fill to maintain 1'-0" min. berm from the Proposed Approach Footing to EPS fill cut at the prescribed slope of 1.75:1. This may result in the bottom of the EPS fill being at a higher elevation than the bottom of the abutment. However, it is more important that the sleeper slab not be founded on top of the compressible EPS blocks and that the EPS blocks be placed at a minimum slope of 1.75:1 than it is that the blocks are placed all the way down to the bottom of the abutment.



**EPS BLOCK ORIENTATION
AT ABUTMENT TRANSITION DETAIL**

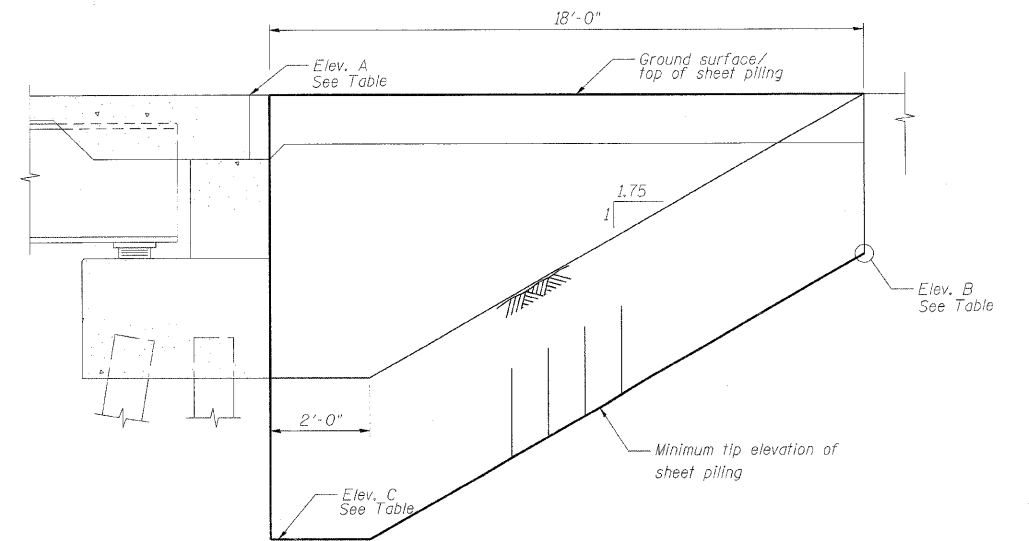
(Located at Steps in Abutment footing)



DETAIL A

BILL OF MATERIAL

Item	Unit	Total
Structure Excavation	Cu. Yd.	367
Temporary Sheet Piling	Sq. Ft.	497
Geocomposite Wall Drain	Sq. Yd.	124
Pipe Underdrains for Structures 4"	Foot	157
Expanded Polystyrene Fill	Cu. Yd.	240



TEMPORARY SHEET PILING

(Horiz. dim. @ Rt. L's)

SHEET PILING ELEVATION TABLE

Abutment	Elev. A	Elev. B	Elev. C	Min. Section Modulus Req'd. (in ² /ft.)	Min. Embedment (ft.)
North	764.47	755.77	746.64	6.8	8.7
South	765.11	756.42	747.26	6.8	8.7

DESIGNED	MFB
CHECKED	KWS
DRAWN	RMG
CHECKED	KWS

**ABUTMENT STABILIZATION DETAILS
STRUCTURE NO. 022-0112**

benesch

alfred benesch & company
Engineers • Surveyors • Planners
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-665-0450 Job No. 10050

SHEET NO. 14	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	290	22(1, 1-1, 2&3)RS-7	DUPAGE	546	487
28 SHEETS	CONTRACT NO. 60G51				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		