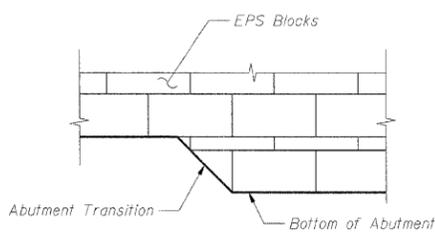
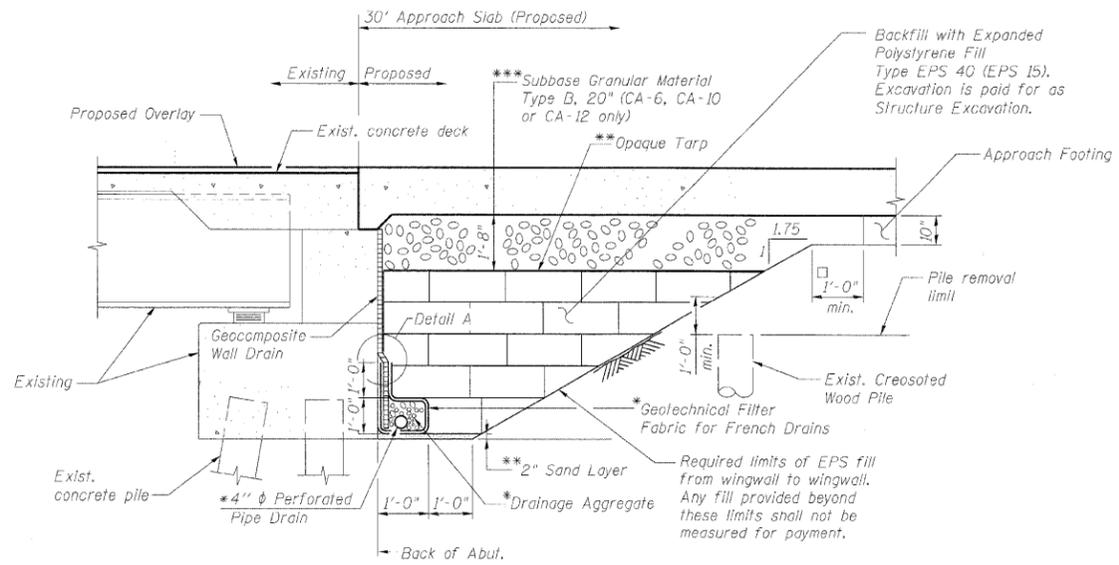
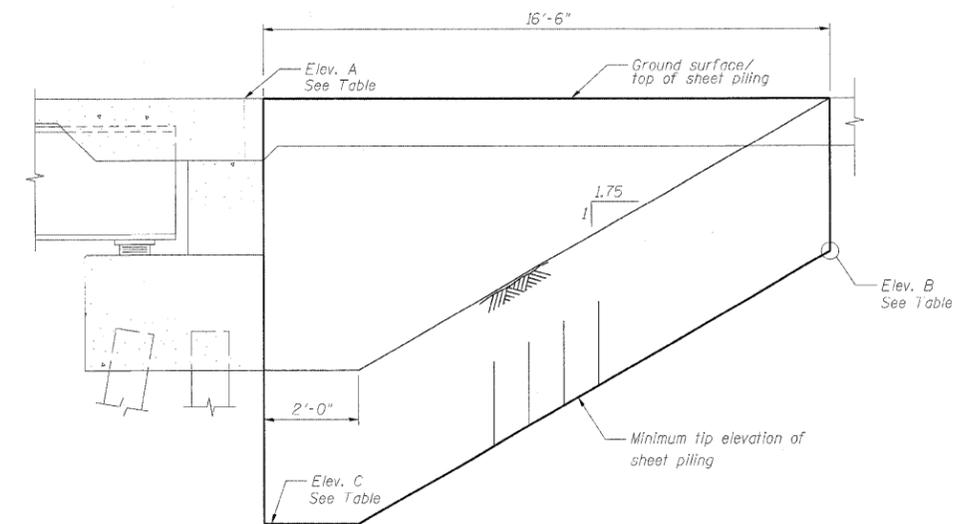


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**EPS BLOCK ORIENTATION  
AT ABUTMENT TRANSITION DETAIL**  
(Located at Steps in Abutment Footing)

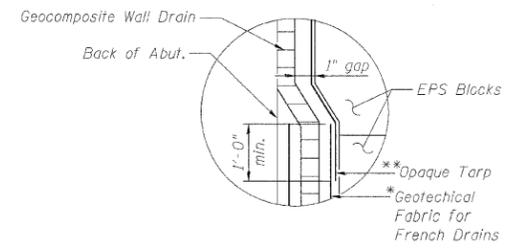


**TEMPORARY SHEET PILING**  
(Horiz. dim. @ Rt. L's)

SHEET PILING ELEVATION TABLE					
Abutment	Elev. A	Elev. B	Elev. C	Min. Section Modulus Req'd. (in. <sup>3</sup> /ft.)	Min. Embedment (ft.)
North	764.04	756.44	748.25	4.7	7.6
South	764.56	756.96	748.71	4.7	7.6

**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.



**DETAIL A**

**BILL OF MATERIAL**

Item	Unit	Total
Structure Excavation	Cu. Yd.	273
Temporary Sheet Piling	Sq. Ft.	401
Geocomposite Wall Drain	Sq. Yd.	97
Pipe Underdrains for Structures 4"	Foot	130
Expanded Polystyrene Fill	Cu. Yd.	175

DESIGNED	MFB
CHECKED	KWS
DRAWN	RMG
CHECKED	KWS

**ABUTMENT STABILIZATION DETAILS  
STRUCTURE NO. 022-0111**

**benesch**

alfred benesch & company  
Engineers • Surveyors • Planners  
205 North Michigan Avenue, Suite 2400  
Chicago, Illinois 60601  
312-555-0490 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	459
28 SHEETS	CONTRACT NO. 60G51				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

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