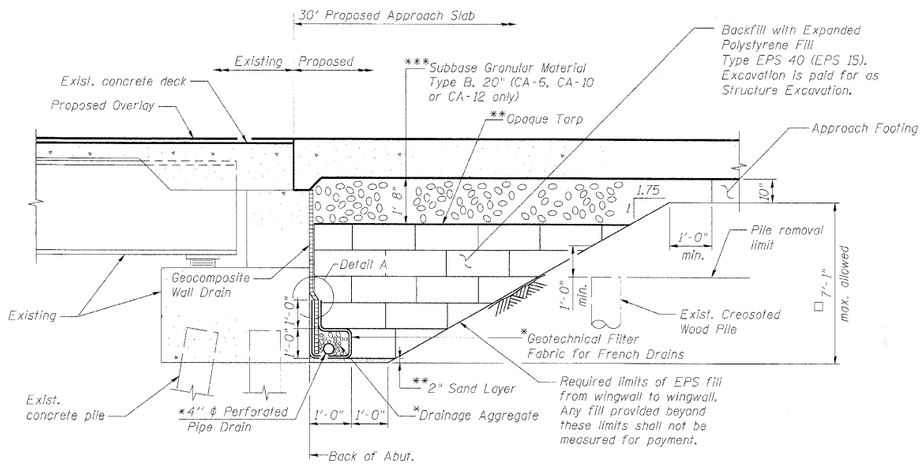
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ABUTMENT STABILIZATION DETAIL

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

* Included in the cost of Pipe Underdrains for Structures.

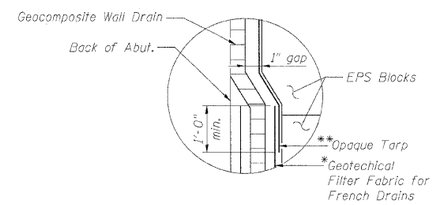
** Included in the cost of Expanded Polystyrene Fill.

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

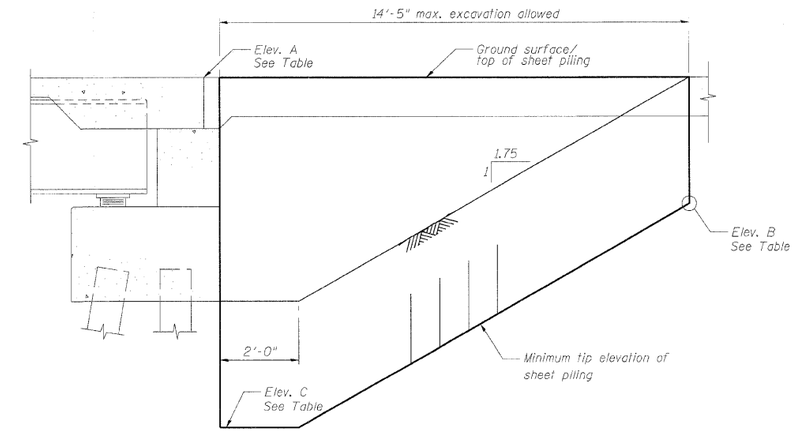
All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0" from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

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.

☐ Max. allowed EPS fill depth to maintain 1'-0" min. berm from Proposed Approach Footing to EPS fill cut. If abutment exceeds this height, only install fill down to the max. allowed depth.



DETAIL A



TEMPORARY SHEET PILING

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

SHEET PILING ELEVATION TABLE

Abutment	Elev. A	Elev. B	Elev. C	Min. Section Modulus Req'd. ($in.^3/ft.$)	Min. Embedment (ft.)
North	748.28	742.08	734.99	3.3	6.3
South	753.57	747.37	740.28	3.3	6.3

BILL OF MATERIAL

Item	Unit	Total
Structure Excavation	Cu. Yd.	488
Temporary Sheet Piling	Sq. Ft.	296
Geocomposite Wall Drain	Sq. Yd.	189
Pipe Underdrains for Structures 4"	Foot	252
Expanded Polystyrene Fill	Cu. Yd.	303

DESIGNED -	MFB
CHECKED -	KWS
DRAWN -	RMG
CHECKED -	KWS

benesch

alfred benesch & company
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205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10050

ABUTMENT STABILIZATION DETAILS
STRUCTURE NO. 022-0137

SHEET NO. 14	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
32 SHEETS	290/355	22(1, 1-1, 2&3)RS-7	DUPAGE	546	427
			CONTRACT NO. 60G51		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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