

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.  
Precast alternate is not allowed.

The sides of the box culvert and back face of wingwalls shall be waterproofed according to Article 503.18 of the Standard Specifications for Road and Bridge Construction. Cost is included with Concrete Box Culverts.

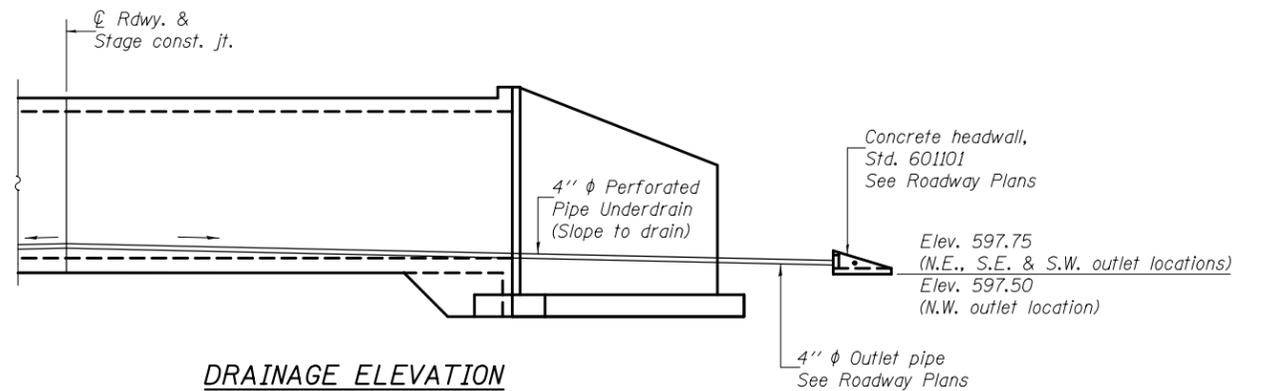
The top of the bottom slab shall be given a final finish by brushing except the surface shall not be divided by grooves. See Article 424.06 of the Standard Specifications for Road and Bridge Construction. Cost shall be included with Concrete Box Culverts.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	352
Removal of Existing Structures No. 3	Each	1
Reinforcement Bars, Epoxy Coated	Pound	51880
Bar Splicers	Each	70
Temporary Soil Retention System	Sq. Ft.	250
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	353
Geocomposite Wall Drain	Sq. Yd.	306
Pipe Underdrains for Structures 4"	Foot	329
Rock Fill	Cu. Yd.	416
Membrane Waterproofing	Sq. Ft.	2316

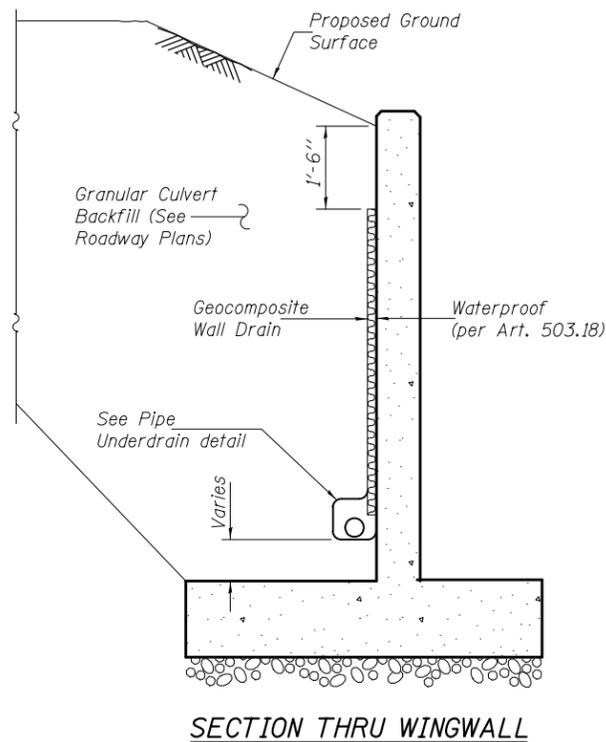
**INDEX OF SHEETS**

- 1 General Plan and Elevation
- 2 General Data and Drainage Details
- 3 Stage Construction & Temporary Soil Retention System Details
- 4 Rock Fill Details & Removal Details
- 5-7 Culvert Details
- 8 Bar Splicer Assembly & Mechanical Splicer Details
- 9 Soil Boring Logs

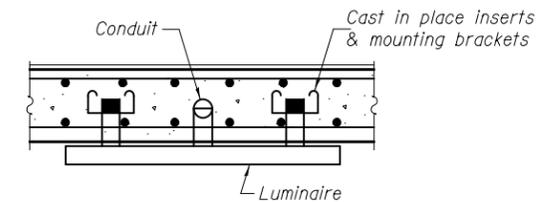


**DRAINAGE ELEVATION**

Geocomposite wall drain and granular culvert backfill not shown. See Section thru Barrel.

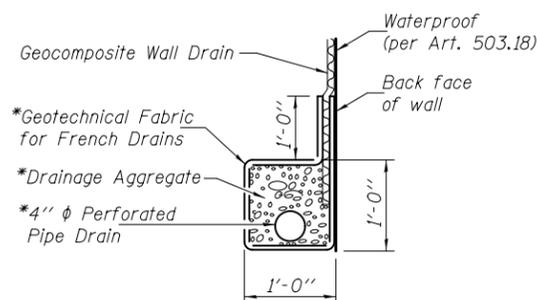


**SECTION THRU WINGWALL**



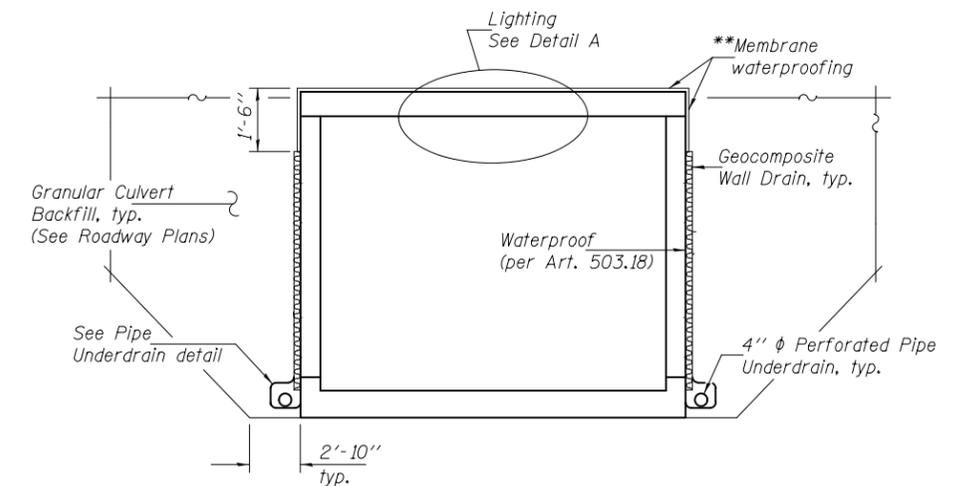
**DETAIL A**

See Lighting Plan for location and details of luminaire, conduit, inserts and mounting brackets.



**PIPE UNDERDRAIN DETAIL**

\*Cost included with Pipe Underdrains for Structures, 4"



**SECTION THRU BARREL**

\*\*The Membrane Waterproofing shall be Butyl Rubber Membrane. The protective cover may be either asphalt plank or asphaltic panels. See Article 580 of the Standard Specifications.

DESIGNED - PEC/ADY	EXAMINED - <i>Joanne F. [Signature]</i> ACTING ENGINEER OF BRIDGE DESIGN	DATE - OCTOBER 4, 2013	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL DATA &amp; DRAINAGE DETAILS STRUCTURE NO. 046-2552</b>	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED - ADY/PG	PASSED - <i>Carl [Signature]</i> ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED			57	(140)BR, BR-1 & I(1)	KANKAKEE	183	121	
DRAWN - h.t. duong		REVISED			CONTRACT NO. 66750					
CHECKED - ADY/PG					ILLINOIS FED. AID PROJECT					