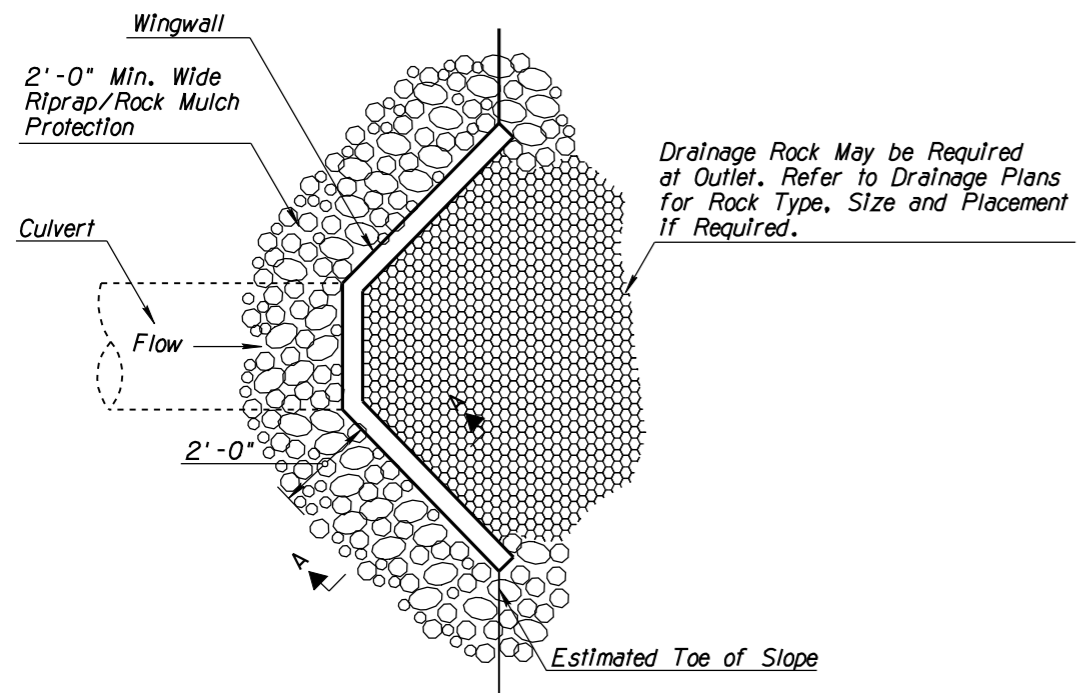
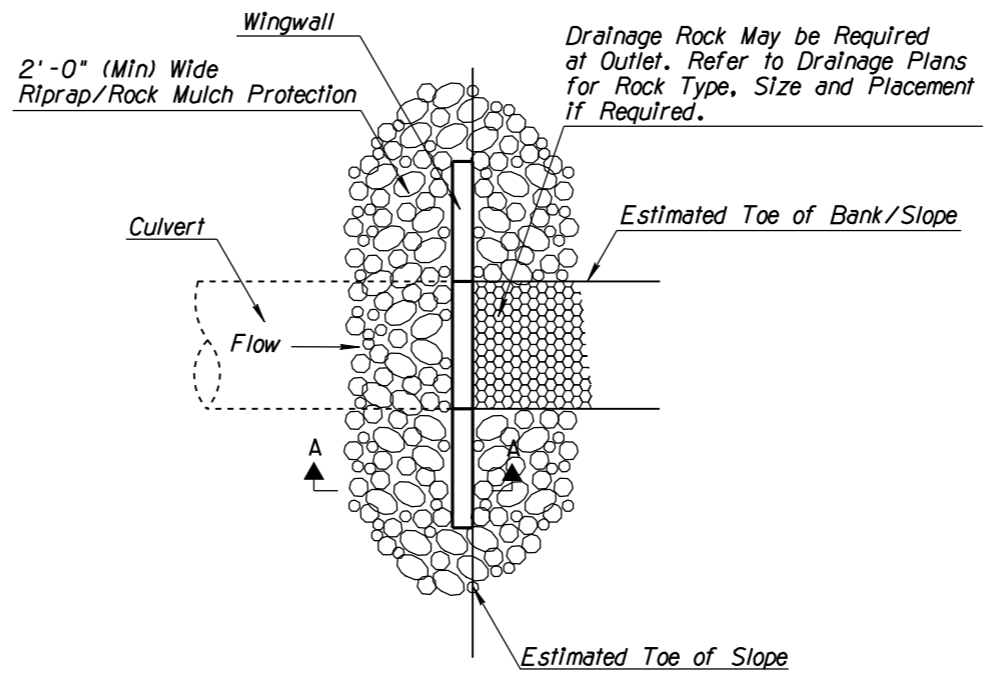


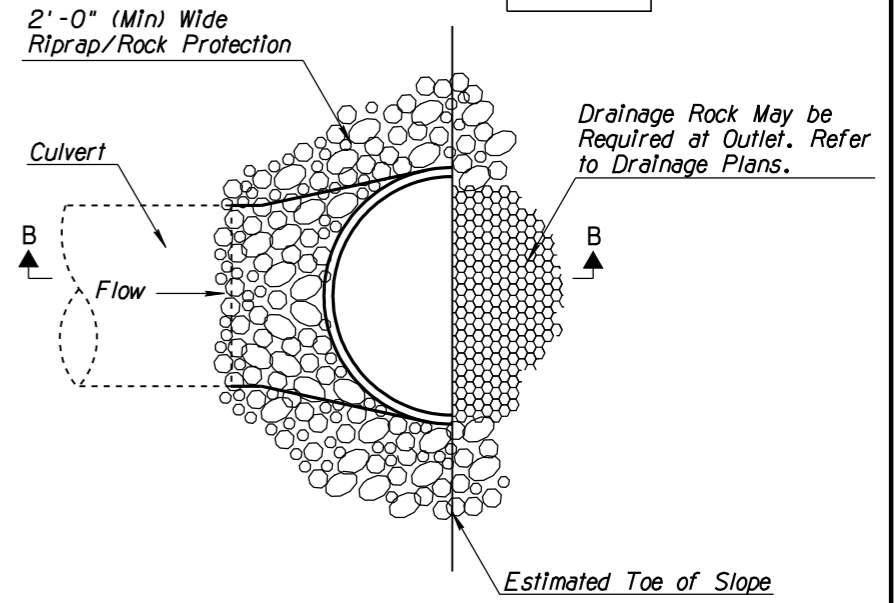
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	AS BUILT
9	ARIZ.				



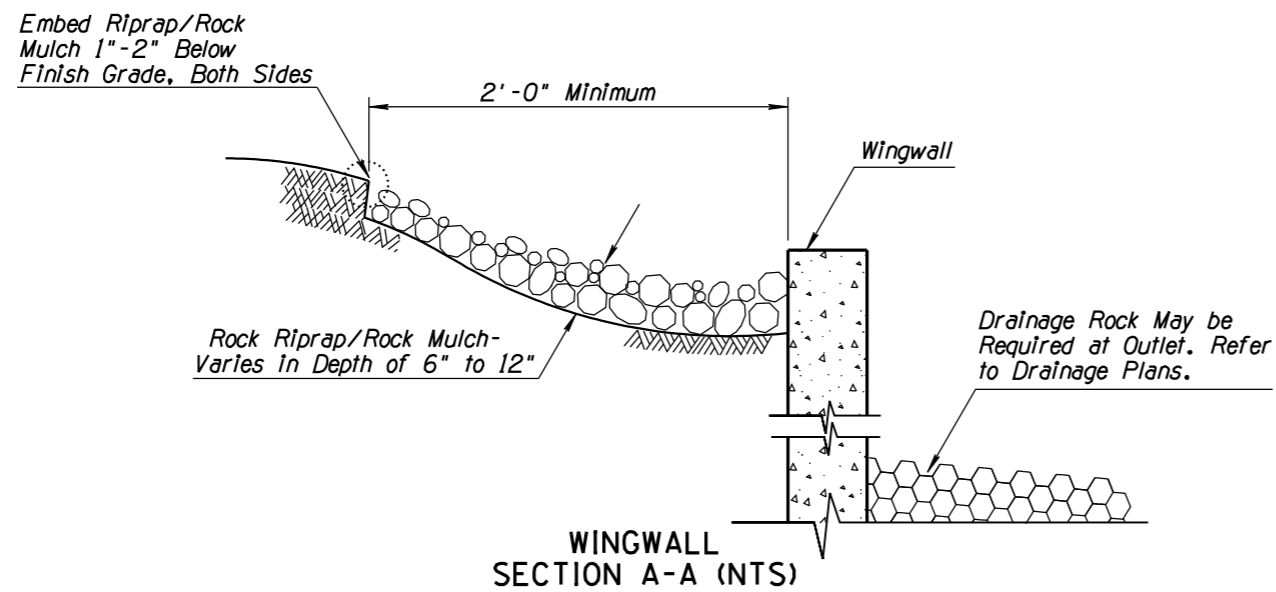
ANGLED HEADWALL
PLAN VIEW (NTS)



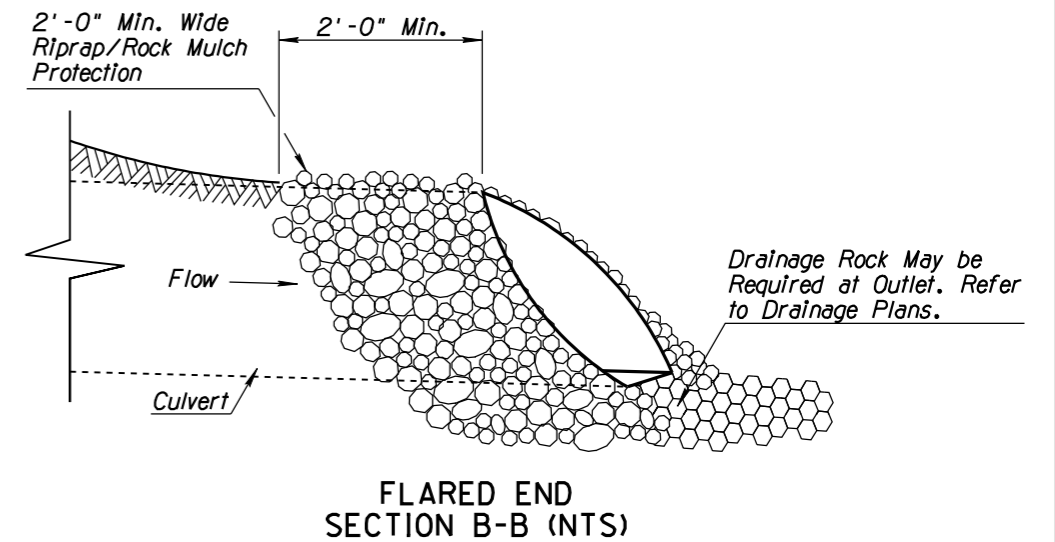
FLUSH HEADWALL
PLAN VIEW (NTS)



FLARED END
PLAN VIEW (NTS)



WINGWALL
SECTION A-A (NTS)



FLARED END
SECTION B-B (NTS)

NOTES:

1. Rock Riprap/Rock Mulch shall be angular shaped, crushed rock materials.
2. Rock Riprap/Rock Mulch within the traffic Clear Zone shall conform to the requirements of Section 810-2.03 Sieve Size Gradation A and/or Gradation C, and Section 913 of the Standard Specifications.
3. Embed rock within traffic recovery area/clear zone into the finished grade so that any portion of the rock above the grade will be less than 4" in height.
4. The installation and maintenance of Rock Protection BMPs shall not negatively impact traffic safety, nor the designed function of roadway or bridge drainage facilities. Rock Protection BMPs shall be installed and maintained to carry the stormwater of at least 2-year, 24-hour events.
5. Field adjust and correct Rock Protection BMP immediately if it is causing flooding, erosion, and/or affecting roadway safety.
6. The Rock Protection BMP's pay/bid item shall include all materials used for this BMP: all ground preparation, furnishing, installing, maintaining as well as returning the area to an acceptable condition as approved by the Engineer.

DETAIL ES2

ROCK PROTECTION FOR INLETS,
OUTLETS AND HEADWALL TRANSITION

DESIGN	NAME	DATE	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION ROADSIDE DEVELOPMENT SECTION STORMWATER QUALITY PROTECTION & EROSION/SEDIMENT CONTROL DETAILS
DESIGN	TAO ZI FONG	5-2011	
DRAWN	HAN MENG	5-2011	
DRAWN	TAO ZI FONG	5-2011	
DRAWN	HAN MENG	5-2011	
CHECKED	E LEROY BRADY	5-2011	
TEAM LEADER	E LEROY BRADY	5-2011	
ROUTE	MP	LOCATION	
TRACS NO.			SHEET OF
			OF

NO. 1 | DESCRIPTION OF REVISION | DATE | MADE BY