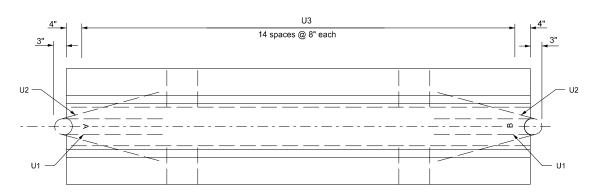
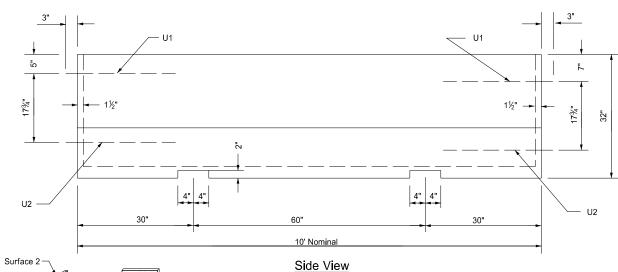
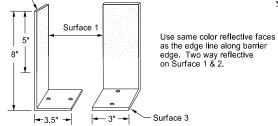
# PORTABLE PRECAST CONCRETE MEDIAN BARRIER (TEMPORARY USAGE)



# Plan View





Barrier Marker Detail

Marker Body Use high impact, weatherable engineering

inermo-piastic material comorning to the	ermo-piastic material conforming to the following.		
Property	Result	ASTM Test Method	
Thickness (min)	.090"		
Tensile strength (min psi) @ yield	5,500	D638	
Impact strength @ -20°F (ft-lbs/in of notch)	3.2	D256 Method A	
Impact strength @ 73°F (ft-lbs/in of notch)	14.0	D256 Method A	
Flexural strength, PSI ¼" @ 73°F	8,000	D790	
Flexural modulus, PSI ¼" @ 73°F	300,000	D790	
Elongation @ yield	30%	D638	

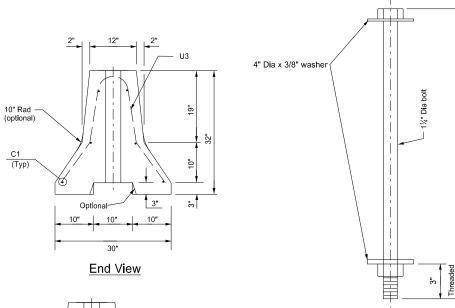
# Reflective Tape

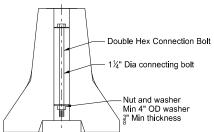
Use retroreflective, acrylic microprism material with acrylic backing, 3" wide, providing the following minimum optical performance with an observation angle of 0.1' measured in candlepower for the reflector:

· ·	
Entrance Angle	Specific Intensity
Yellow - 4"	136
White - 4"	200

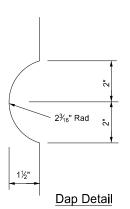
Use factory applied solid butyl rubber 1/8" thick, 2" wide on 21/4" wide release paper on surface 3

to temporarily mount markers to portable concrete barrier.

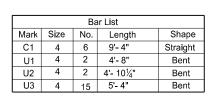


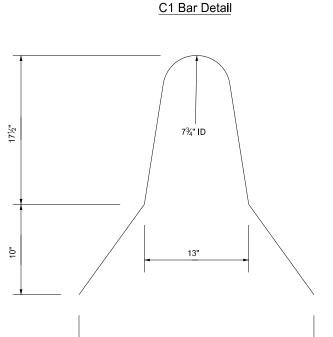


Connecting Bolt Detail (One per 10 Ft section)



**Bolt Connection Detail** 



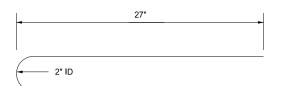


9'- 4"

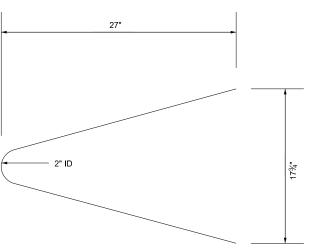
# U3 Bar Detail

## Notes:

- Galvanize all exposed hardware as per ASTM A153, except for the loop inserts.
- 2. Use AAE-3 Concrete.
- Provide steel in accordance with Section 612 of NDDOT Standard Specifications.
- 4. Imprint barrier ends A and B as shown with 4 inch letters. Field match A end with B end.
- 5. Place barrier markers at the center of the barrier at 20' centers.
- 6. Connect barrier sections with 1 1/4" Dia A-307 double hex connecting bolt. Maintain bottom nut and washer connection for duration of barrier installation.
- 7. Place barrier to minimize openings between individual sections.



U1 Bar Detail



U2 Bar Detail

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION			
07-20-12			
	REVISIONS		
DATE	CHANGE		
	Updated to active voice New Design Engr PE Stamp		

This document was originally issued and sealed by Kirk J Hoff, Registration Number PE-4683,

on 11/1/19 and the original document is stored at the North Dakota Department of Transportation