



NOTES:

- 1). ALL W-BEAMS ARE 13'-6 1/2" IN LENGTH.
- 2). PLACE GUARDRAIL DELINEATORS AT THE INTERVALS SPECIFIED IN THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 3). POSTS 1 THROUGH 6 ARE TO BE TYPE 31 LONG, WOOD BREAKAWAY POSTS. POST 7 IS TO BE A W6x9 STEEL POST.
- 4). THE RAIL SHALL BE ATTACHED AT POSTS 1 THROUGH 6 WITH A 5/8" x 22" GUARDRAIL BOLT, STEEL WASHER, AND RECESS NUT.
- 5). CULVERT HEADWALL SHALL NOT EXTEND MORE THAN 2" ABOVE GRADE.
- 6). THERE SHALL BE A MINIMUM OF 8" FROM THE BACK OF POST TO THE CULVERT WINGWALLS.



DELAWARE
DEPARTMENT OF TRANSPORTATION

GUARDRAIL OVER CULVERTS, TYPE 1-31

STANDARD NO. B-3 (2013) SHT. 1 OF 3

APPROVED

SIGNATURE ON FILE
CHIEF ENGINEER 02/14/2014
DATE

RECOMMENDED

SIGNATURE ON FILE
DESIGN ENGINEER 01/14/2014
DATE