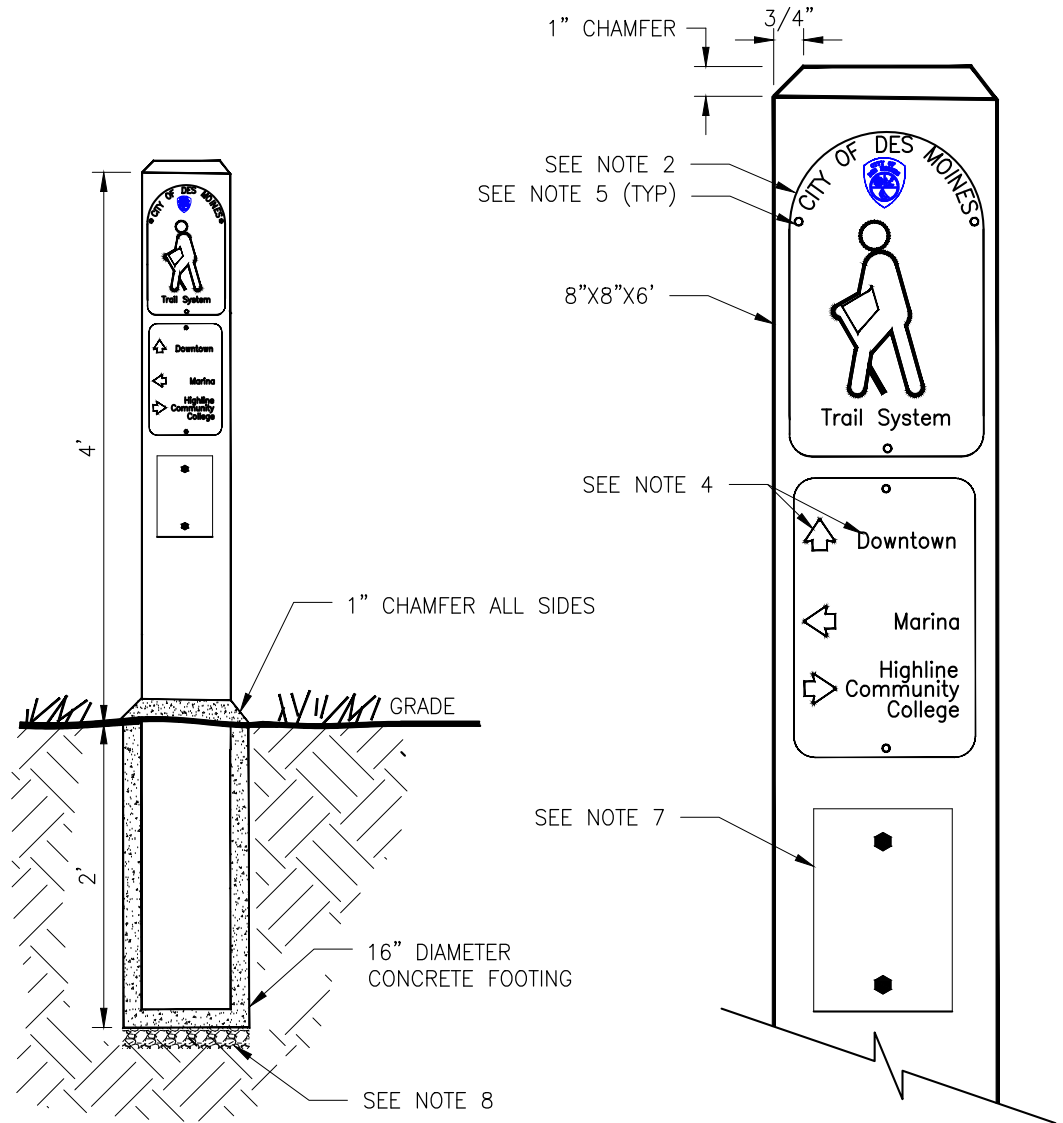


NOTES:

1. SEE DESIGN PLANS AND SPECIFICATIONS FOR TEXT AND SYMBOLS ON BOLLARD. SHOP DRAWINGS ARE REQUIRED FOR ALL SIGNS, AND MUST BE APPROVED BY THE CITY TRANSPORTATION ENGINEER.
2. ALL SYMBOLS, CITY OF DES MOINES LOGO, AND TEXT SHALL BE PAINTED OPAQUE WHITE UNLESS SPECIFIED OTHERWISE. USE HELVETICA FONT WITH 1/2" CAPS. TRANSITION STRAIGHT EDGE OF SIGN WITH 1-1/2" RADIUS TO A 10" RADIUS LOCATED AT THE TOP OF THE BOLLARD SIGN.
3. SIGN PLATES SHALL BE 1/8" THICK ALUMINUM LETTERED AND PAINTED AS SPECIFIED BY THE CITY. TIGER DRYLAC SERIES 49 SMOOTH, GLOSSY POLYESTER SYSTEM, POWDER COAT WITH RAC 5018 (BLUE) OR PERFORMANCE EQUIVALENT AND COLOR MATCH.
4. TRAIL NAMES AND ARROWS SHALL BE WHITE, WEATHER RESISTANT, PRESSURE SENSITIVE VINYL. USE 3M SCHOTCHAL #3470 OR EQUAL. USE HELVETICA FONT WITH 3/4" HIGH CAPITAL LETTERS.
5. MOUNT SIGNS TO TWO SIDES OF BOLLARD FACING TRAVEL DIRECTION. USE 5 3/4" x 1/8" STAINLESS STEEL ALLEN HEAD WOOD SCREWS AND WASHERS.
6. BOLLARD SHALL BE 6' (LONG) x 8" (WIDE) x 8" (THICK) AND SHALL BE PRESSURE TREATED IN ACCORDANCE WITH SECTION 9-09.3(4) OF THE WSDOT STANDARD SPECIFICATIONS. SET POST 2' DEEP BELOW GRADE. CONCRETE SHALL BE CLASS 3000. 1" CONCRETE CHAMFER ALL SIDES ABOVE GRADE.
7. A HIGH INTENSITY DELINEATOR SHALL BE ATTACHED TO ALL BOLLARDS THAT ARE LOCATED WITHIN THE CITY OF DES MOINES. USE 4" x 8" WHITE COLOR ONLY. INSTALL ON ALL SIDES WHICH ARE VISIBLE FROM TRAIL. FASTEN WITH STAINLESS STEEL LAG SCREWS.
8. INSTALL BASE COURSE OF 3/4" MINUS CRUSHED ROCK, 4" THICK BENEATH BOLLARD CONCRETE FOOTING AS SHOWN.
9. BOLLARDS SHALL NOT BE PLACED WITHIN 10 FEET OF THE EDGE-OF-TRAVELED WAY OF AN ADJACENT STREET.



NOT TO SCALE



CITY OF DES MOINES
PUBLIC WORKS DEPARTMENT

ENGINEERING SERVICES
21650 11TH AVENUE SOUTH
DES MOINES, IA 50319



DIRECTIONAL BOLLARDS

DM.E3.2

REVISED: 02/23