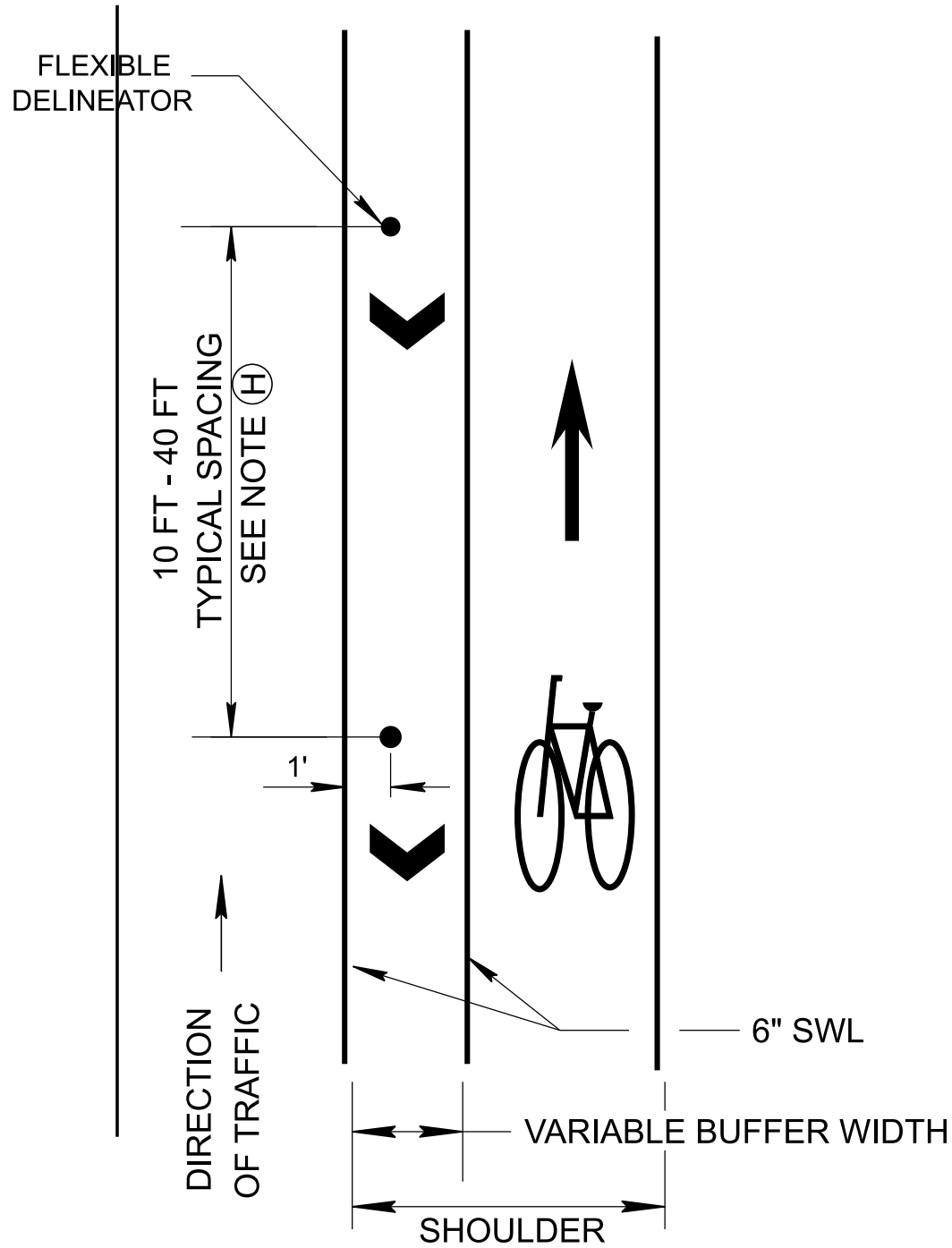
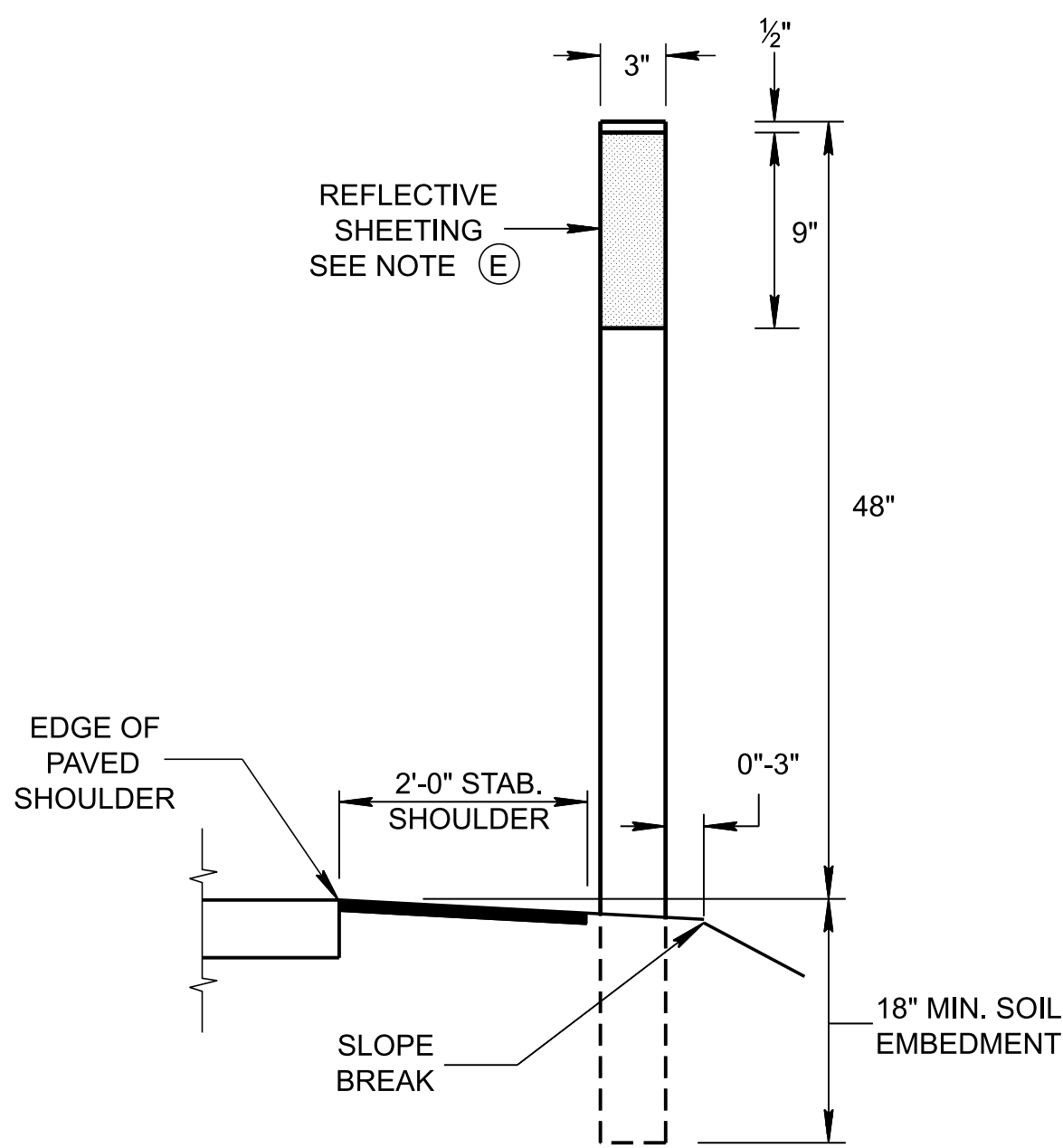


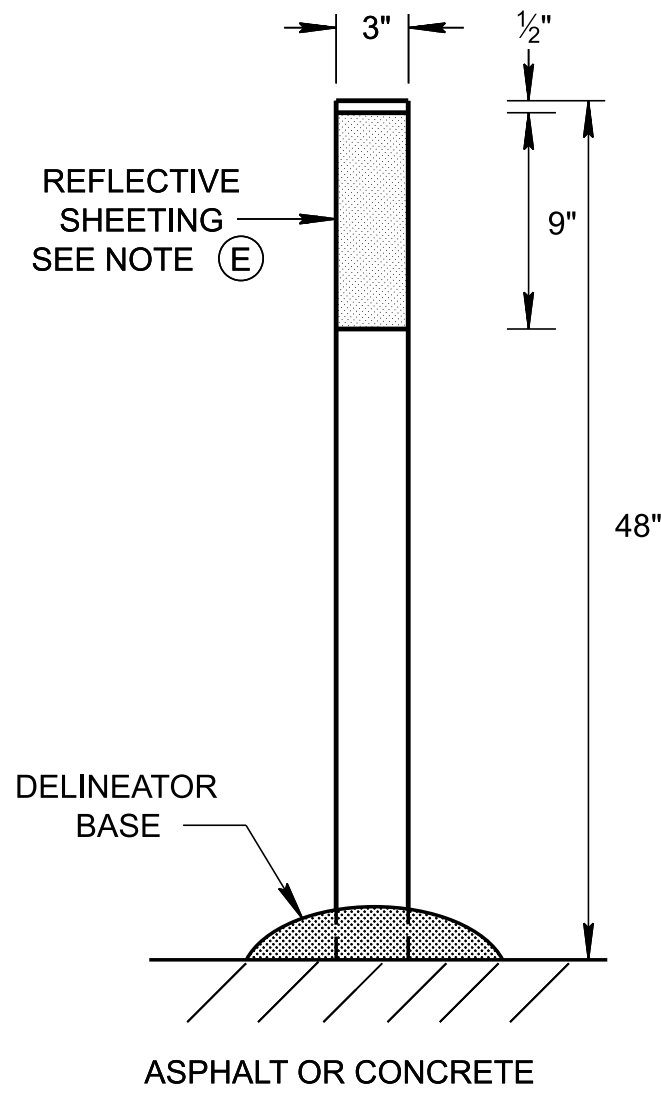
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OPTIONAL DELINEATOR PLACEMENT
FOR BICYCLE TO VEHICLE SEPARATION



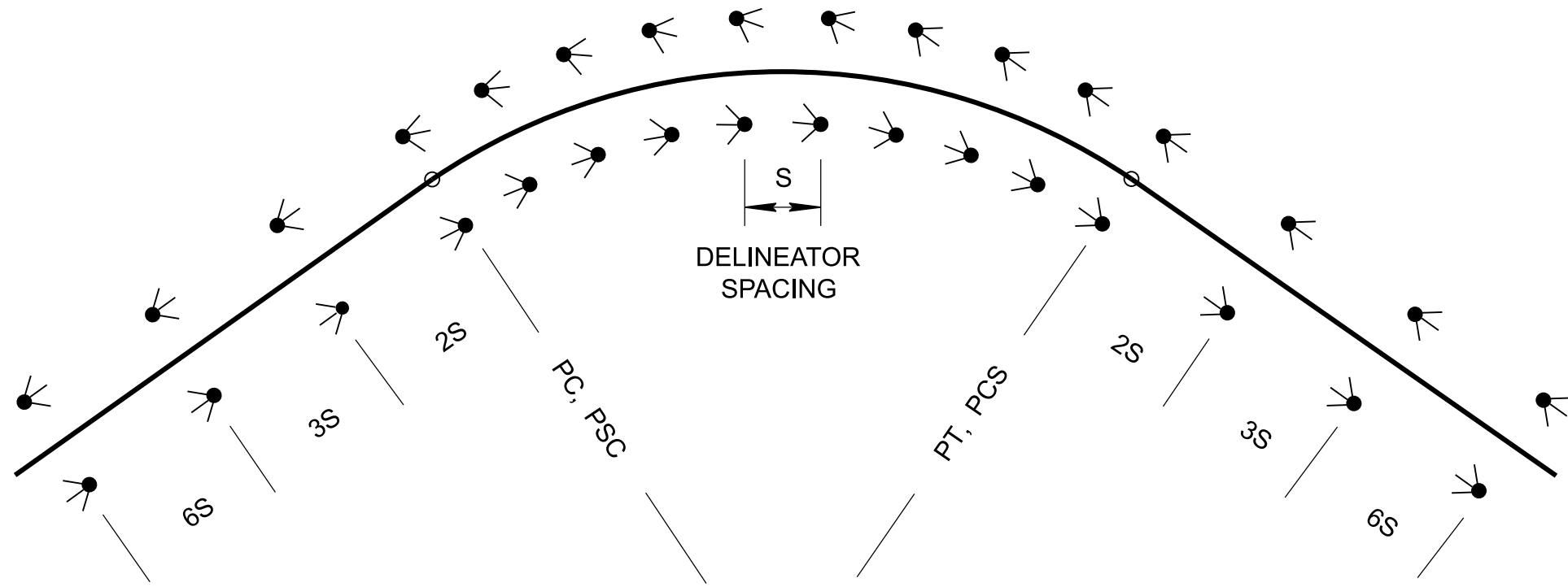
GROUND MOUNTED
FLEXIBLE TUBULAR DELINEATOR



SURFACE MOUNTED
FLEXIBLE TUBULAR DELINEATOR

SEE NOTE ①

TABLE			
DELINEATOR SPACING ON HORIZONTAL CURVE			
RADIUS (FT)	SPACING (FT)	RADIUS (FT)	SPACING (FT)
50	20	600	70
100	25	700	75
200	40	800	80
300	50	900	85
500	65	1000	90



DELINEATOR SPACING DETAIL
ON A HORIZONTAL CURVE

- NOTES: 1. SPACING(S) FOR SPECIFIC RADII MAY BE INTERPOLATED FROM TABLE.
2. THE MINIMUM SPACING SHOULD BE 20 FEET.
3. THE SPACING ON CURVES SHOULD NOT EXCEED 300 FEET.
4. IN ADVANCE OF OR BEYOND A CURVE, AND PROCEEDING AWAY FROM THE END OF THE CURVE, THE SPACING OF THE FIRST DELINEATOR IS 2S, THE SECOND 3S, AND THE THIRD 6S, BUT NOT TO EXCEED 300 FEET.
5. S REFERS TO THE DELINEATOR SPACING FOR SPECIFIC RADII COMPUTED FROM THE FORMULA $S=3\sqrt{R-50}$.
6. THE DISTANCE FOR S SHOWN IN THE TABLE ABOVE WERE ROUNDED TO THE NEAREST 5 FEET.

GENERAL NOTES

- (A) THE REFLECTIVE SHEETING SHALL MEET THE REQUIREMENTS OF AASHTO M268, TYPE B OR HIGHER RETROREFLECTION PERFORMANCE LEVEL.
- (B) THE REFLECTIVE SHEETING STRIP ON THE DELINEATORS SHALL BE MIN. 9 INCHES IN LENGTH AND SUFFICIENT WIDTH TO PROVIDE A MIN. 3 INCHES WIDE PROFILE FACING APPROACHING TRAFFIC. THE VARIATIONS IN REFLECTIVE SHEETING DIMENSION SHOULD NOT EXCEED $\pm 10\%$.
- (C) THE CONTRACTOR SHALL SELECT MATERIAL FROM THE DEPARTMENT'S QPL.
- (D) THE COLOR OF DELINEATORS SHALL COMPLY WITH THE COLOR OF EDGE LINES STIPULATED IN SECTIONS 3A.03 AND 3B.09 IN COMPLIANCE WITH SECTION 3G.03 OF THE MUTCD.
- (E) THE COLOR OF THE REFLECTIVE SHEETING SHALL CONFORM TO THE COLOR OF THE DELINEATOR POST.
- (F) PAYMENT FOR GROUND MOUNTED FLEXIBLE DELINEATORS WILL BE MADE AS FOLLOWS ITEM NO'S.:
713-02.14, FLEXIBLE DELINEATOR (WHITE), PER EACH.
713-02.15, FLEXIBLE DELINEATOR (YELLOW), PER EACH.
713-02.16, FLEXIBLE TYPE II, OBJECT MARKER, PER EACH.
713-02.33, FLEXIBLE DELINEATOR (RED), PER EACH.
- (G) PAYMENT FOR SURFACE MOUNTED FLEXIBLE DELINEATORS WILL BE MADE AS FOLLOWS ITEM NO.:
713-02.30, FLEXIBLE TUBULAR DELINEATOR, PER EACH.
- (H) **FLEXIBLE DELINEATOR SPACING:-**
FOR BICYCLE TO VEHICLE SEPARATION, THE FLEXIBLE DELINEATOR POST SHALL BE SPACED FROM 10 FEET TO 40 FEET OR DIRECTED BY THE REGIONAL TRAFFIC ENGINEER.
GROUND MOUNTED DELINEATOR SHALL BE SPACED 240 FEET APART ON TANGENT. SEE TABLE A FOR DELINEATOR SPACING ON A HORIZONTAL CURVE. REFER TO STANDARD DRAWING T-S-11 FOR ADDITIONAL INFORMATION.
- (I) SURFACE MOUNTED FLEXIBLE DELINEATORS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
- (J) ONLY PRODUCTS LISTED ON THE DEPARTMENT'S QPL SHALL BE USED.

REV. 06-15-2021: ADDED FLEXIBLE DELINEATOR MOUNTING DETAILS AND NOTES FOR GUARDRAILS, CABLE BARRIER AND CONCRETE MEDIAN BARRIERS.

REV. 10-29-2021: ADDED DELINEATOR SPACING DETAIL, TABLE AND NOTES FOR CURVE. REVISED GENERAL NOTE (H). GUARDRAIL, CABLE BARRIER AND CONCRETE MEDIAN BARRIER DELINEATOR MOUNTING DETAILS AND NOTES WERE REMOVED.

REV. 01-24-25: UPDATED TYPICAL DETAILS TO CONFORM WITH MUTCD 11TH EDITION.