

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50

(January 13, 2021)

Accessible Pedestrian Signal (APS) Pushbuttons

When required in the Contract, APS Pushbuttons shall be provided. Each accessible pedestrian signal (APS) shall be a complete APS pushbutton system at each pedestrian pushbutton location shown in the Plans. Equipment shall be one of the following systems:

1. Campbell Company: Guardian Accessible Pedestrian Station; Part Number: 501-0811T/512
2. Novax / Pelco Products: IntelliCross Intelligent Pedestrian System APS; Part Number: SE-2901-P30 9x15
3. Polara EZ Comm Navigator 4-Wire (EN4); Part Number: EN43TN1-B

Only one brand of equipment shall be used for the entire Contract.

Each pushbutton station shall include the following:

1. Flat dark green colored housing.
2. High contrast pushbutton arrow (dark on a light background or light on a dark background). White on silver or silver on white are not acceptable as high contrast.
3. Integral 9" x 15" R10-3e Sign. Braille shall not be included. Adaptor plates shall be included if required to accommodate the sign.
4. Appropriate interface unit for installation in associated pedestrian display:
 - a. Campbell: Signal Power Interface (SPI) Unit
 - b. Novax/Pelco: Power Interface Module (PIM)
 - c. Polara: Ped Head Control Unit for 4 Wire Navigator (PHCU4W) Module
5. Percussive tone / rapid tick walk indication.
6. Voice messages, as specified below, pre-installed. Voice shall be male.
7. Interconnect cable for installation between pushbutton station and pedestrian display interface unit. Unless otherwise specified in the Contract, cable shall be provided by the pushbutton manufacturer. Cable may be standard four conductor cable meeting the requirements of Standard Specification 9-29.3(2)B if it meets the pushbutton manufacturers requirements.

The following shall be provided at each intersection:

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30

1. One USB flash drive with copies of all voice message audio files for that intersection, placed in the traffic signal cabinet drawer or drawing envelope. A separate flash drive is required for each intersection.
2. One USB cable of the appropriate type (A to A, A to B, male/female, etc.), placed in the traffic signal cabinet drawer or drawing envelope.

Any other equipment or software required by the manufacturer for setup, operation, and maintenance of the pushbutton stations shall be provided.

Dual button adaptor brackets are required for all installations with two APS pushbuttons on the same Type PPB, Type PS, or Type I Signal Standard. Where dual button adaptor brackets or extension brackets are required, they shall be obtained from the same manufacturer as the pushbutton station. Brackets and extensions from other manufacturers shall not be used.

APS Speech Messages

Speech messages shall be provided in the following format:

- "Wait."
- "Wait to cross ____ (A) ____ at ____ (B) ____."
- "Walk sign is on to cross ____ (A) ____."

The following table lists the entries for (A) and (B) above, as well as quantities for button and arrow orientations:

*** \$\$1\$\$ ***

Order forms shall be completed by the Contractor using the information presented above.