

Summary:

ECI is required to design fourteen mast arm pole (MAP) foundations for the VTrans Williston-Essex STPG SGNL (46) project. This submittal package presents the designs for twelve of the fourteen mast arm poles. The following table outlines the locations, minimum diameters, and minimum lengths of the ten mast arm poles.

To simplify the installation process ECI has elected to apply five different design lengths to this group. This will limit the number of different rebar cages and casing lengths and allow for more efficient installation of the MAP Foundations. Foundation designs for the remaining two MAP foundations will be provided in a separate submittal. Refer to the cover page of each individual design for additional information.

VTrans MAP #	Location	Diameter	Design Length	Installation Length
MAP-1	VT 2A at Connor Way	3.5 ft	16 ft.	16 ft.
MAP-2	VT 15 at 289 EB on Ramp	3.5 ft	14 ft.	14 ft.
MAP-3	VT 15 at 289 EB on Ramp	3.5 ft	9 ft	9 ft
MAP-4	VT 15 at 289 WB off Ramp	3.5 ft	14 ft	14 ft
MAP-5	VT 15 at 289 WB on Ramp	3.5 ft	9 ft	9 ft
MAP-6	VT 15 at Billie Butler Dr.	4.5 ft	11 ft	11 ft
MAP-7	VT 15 at Billie Butler Dr.	3.5 ft	10 ft	12 ft
MAP-8	VT 15 at Billie Butler Dr.	3.5 ft	11 ft	12 ft
MAP-9	VT 15 at Billie Butler Dr.	3.5 ft	12 ft	12 ft
MAP-10	VT 15 at Essex Way	3.5 ft	11 ft	12 ft
MAP-11	VT 15 at Essex Way	3.5 ft	8 ft	9 ft
MAP-12	VT 15 at Essex Way	3.5 ft	12 ft	12 ft