



NOTES:

- THE MANHOLE BASE LINER SHALL BE A FIBERGLASS REINFORCED PLASTIC (FRP) OR POLYPROPYLENE (PP) BASE LINER SYSTEM PER THE ENGINEERING SPECIFICATIONS. FOR PRIVATE MANHOLES, CONCRETE CHANNELS WILL BE ALLOWED.
- USE 18" ECCENTRIC CONE AND 2' BASE FOR SHALLOW MANHOLE APPLICATION.
- IF PP BASE LINER IS UTILIZED, A MINIMUM SLOPE OF 0.06' IS ACCEPTABLE ACROSS THE INVERT CHANNEL. THE FRP BASE LINER SHALL REQUIRE THE DISTRICT STANDARD MINIMUM SLOPE OF 0.1' ACROSS THE INVERT CHANNEL.
- 4. MARKER POSTS MAY BE REQUIRED IN EASEMENTS.
- ALL PICK HOLES SHALL BE GROUTED ON THE INSIDE AND OUTSIDE OF MANHOLE.
- MANHOLE LID SHALL BE ORIENTED PER THE DISTRICT'S DIRECTION.

PRECAST SHALLOW MANHOLE W/ BASE LINER

NOT TO

DETAIL APPROVALS

EDITOR TMC

MANAGER SJD

NORTHSHORE UTILITY DISTRICT

2023 STANDARD SEWER DETAILS



LAST UPDATED FEBRUARY 2020