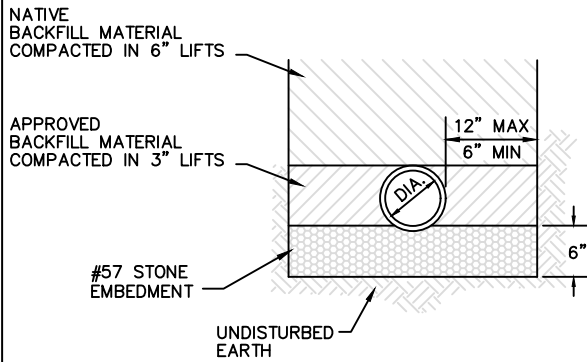
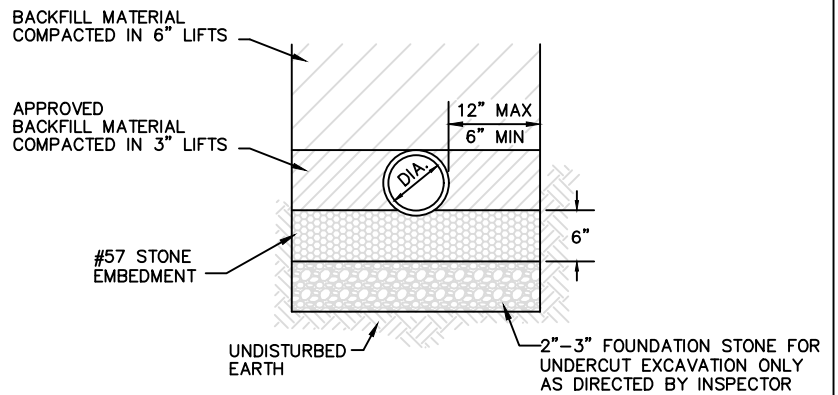


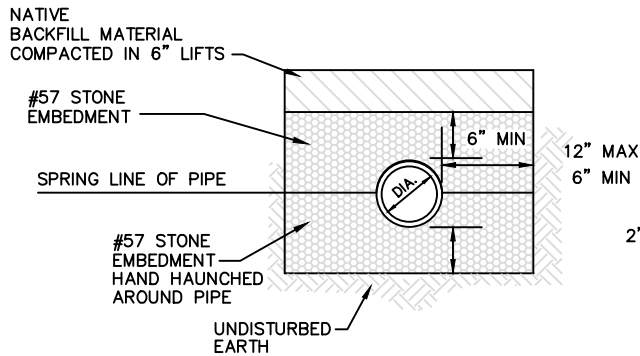


STANDARD EXCAVATION

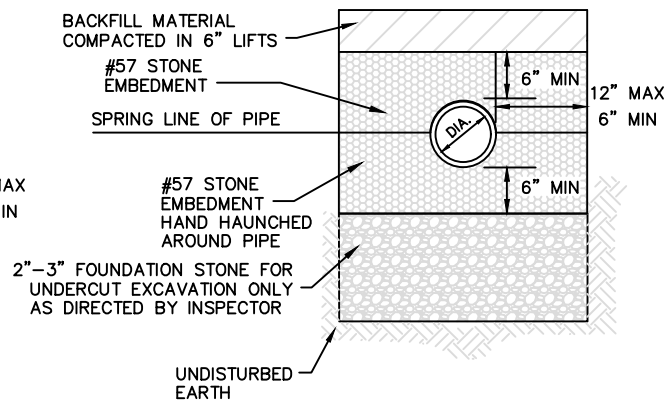


UNDERCUT EXCAVATION
IN UNSTABLE SOILS TYPES

DUCTILE IRON GRAVITY SEWER



STANDARD EXCAVATION



UNDERCUT EXCAVATION
IN UNSTABLE SOILS TYPES

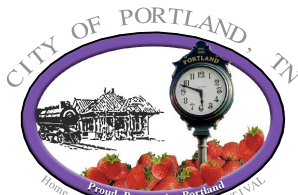
PIPE IN WET OR UNSTABLE CONDITIONS ALL PIPE TYPES (AS DIRECTED BY INSPECTOR)

TYPICAL GRAVITY SEWER TRENCHING DETAILS

NOT TO SCALE

NOTES:

1. CONSTRUCTION OF TRENCHES SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL SAFETY AND HEALTH REGULATIONS WHICH HAVE JURISDICTION AT THE PROJECT SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE APPLICABLE REGULATIONS AND FOLLOW THEM ACCORDINGLY.



CITY OF PORTLAND
DEPARTMENT OF UTILITIES – SEWER
STANDARD SEWER DETAILS

REVISION NO: 1
DATE: 06/01/2021

WW-01