

LESSONS LEARNED:

SANITARY SEWER PROJECT CONVERTED TO PTGBM



- Steve Matheny, P.E.
- Logan Clay Products, LLC
- Daniel DiLegge
- DVM Utilities, Inc.



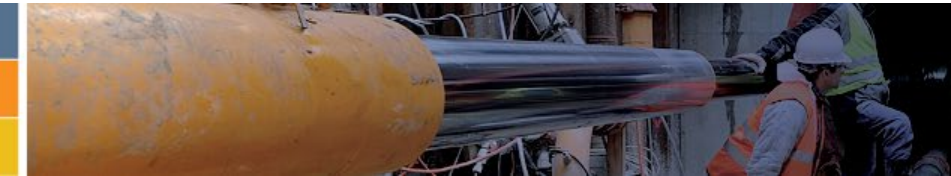
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City of Burton Sanitary Sewer project



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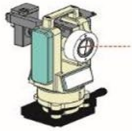
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First Step in a 2 or a 3-Step PTM

Theodolite & Camera

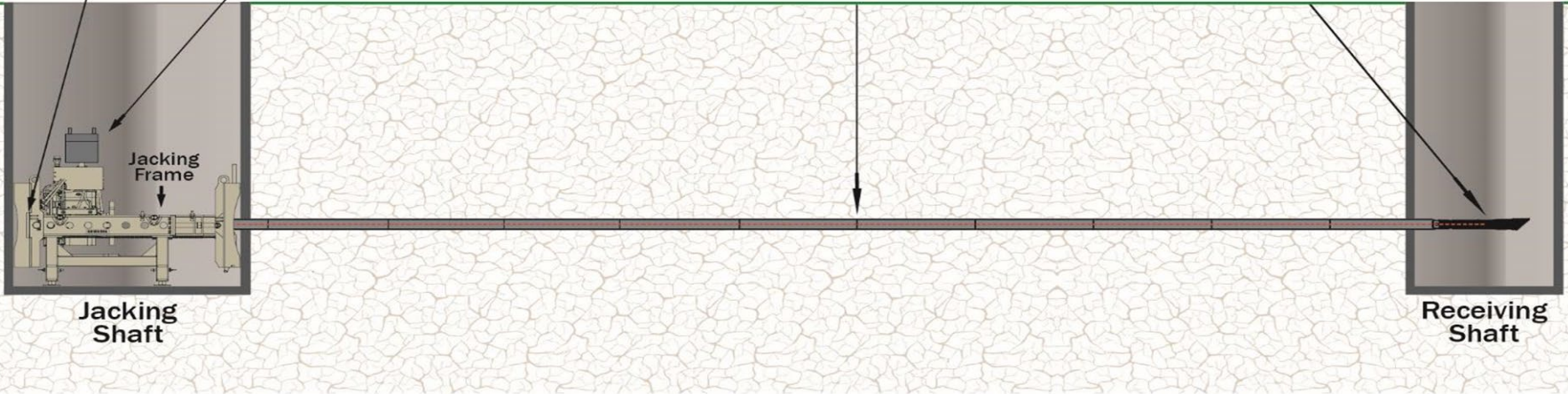


Monitor/Computer



Pilot Tubes & Target Site Path

Illuminated LED Target



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Pilot Tubes/ LED Guidance



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PTM Guidance System



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GBM Guidance System



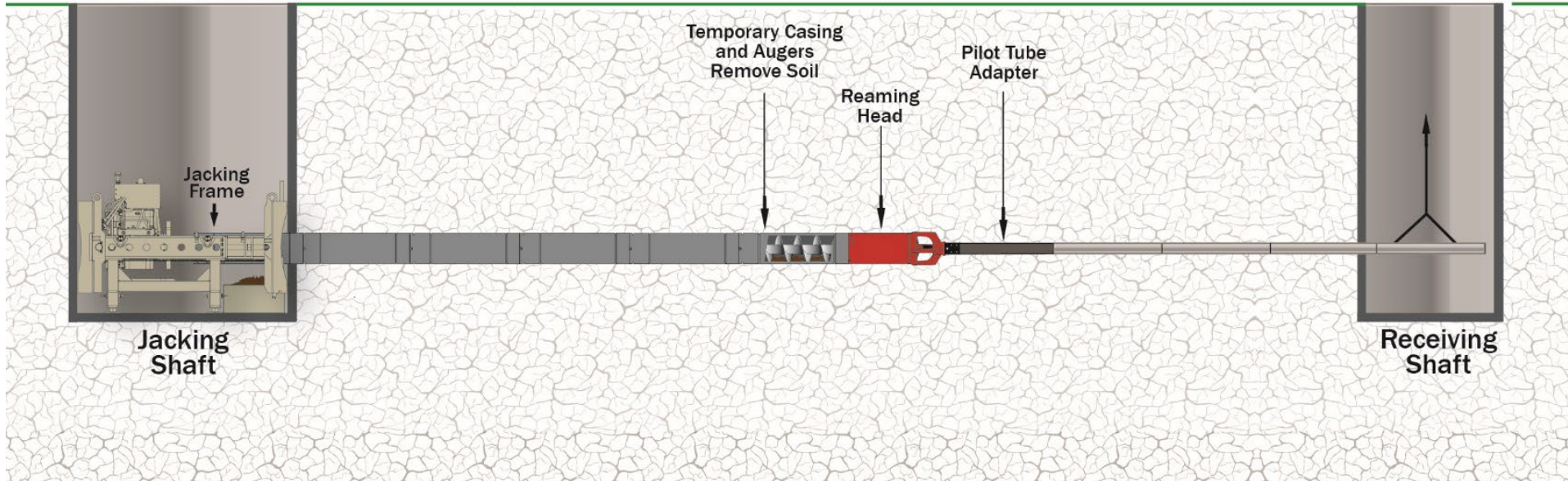
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Second Step in a 3-Step PTM



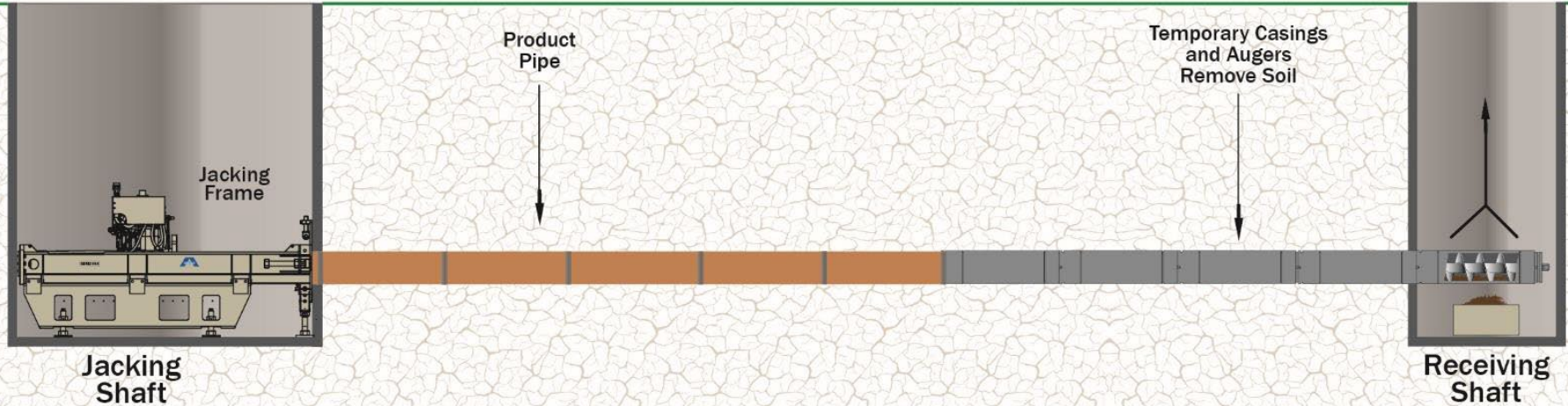
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Final Step in a 3-Step PTM



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GBM 3-Step Process

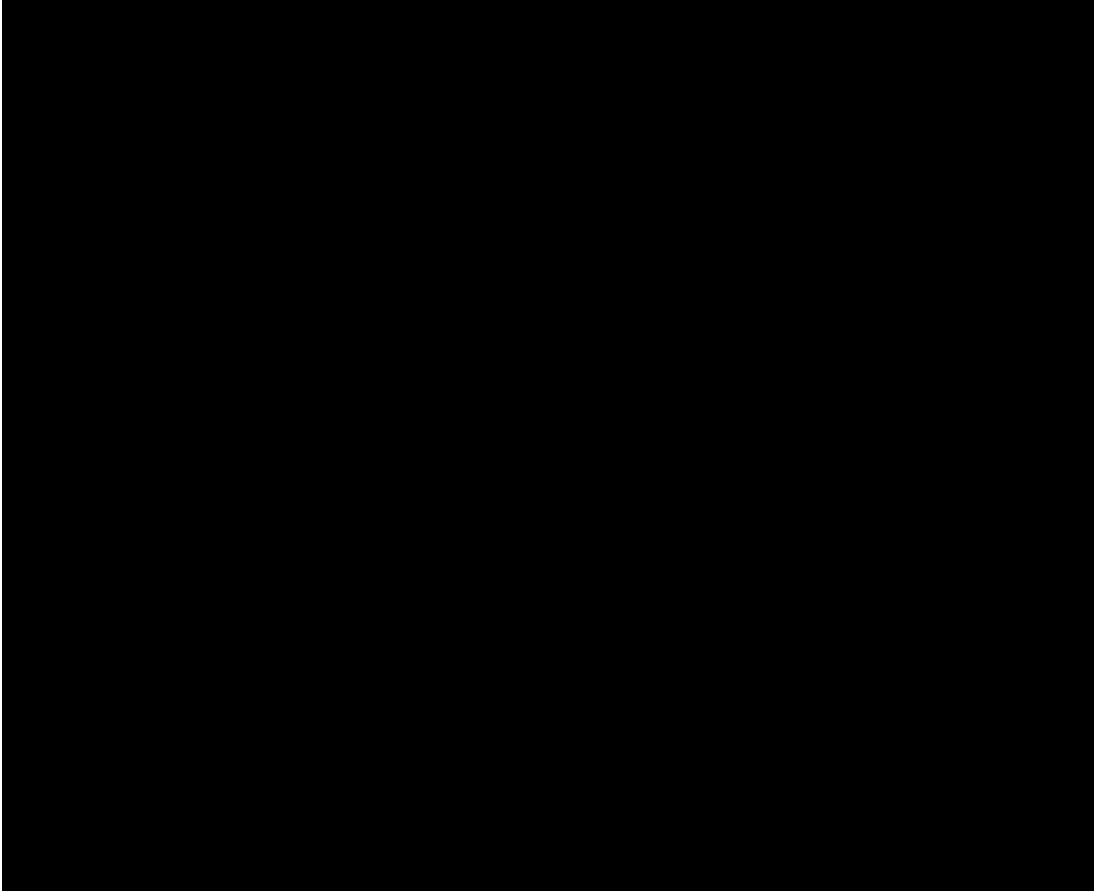


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Project Specifics



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Best Laid Plans



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Installing the 8" NO-DIG



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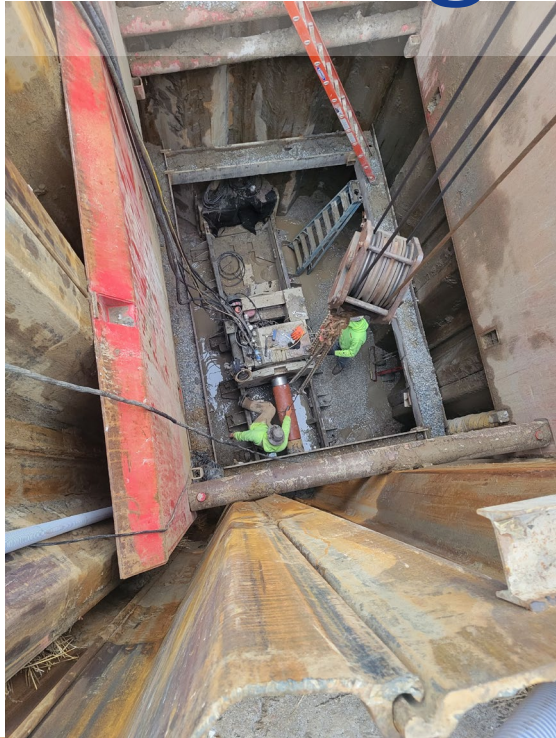
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Large Shaft – Soft Soils



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Cycled Out the Pipe



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Finished Maintenanceholes



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Completed Sanitary Sewer



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Questions?



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Thank You



Steve Matheny, P.E. F.ASCE

Dan DiLegge, DVM Utilities



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