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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 WE 1 -WE 2 tennessee Start date/time: Width: Height: Material: Location code: Weather: 8/17/2017 18 18 **RCP** Additional info: Direction: Length surveyed: Surveyed by: Hal Helton **UPSTREAM** 87.0 At 87.0 ft AMH - Manhole MH on main line At 86.4 ft STOP - Inspection stopped 10.0 ft 20.0 ft 30.0 ft At 49.4 ft 12/. CL - Crack Longitudinal Category: Structural 40.0 ft 50.0 ft 60.0 ft 70.0 ft 80.0 ft At 0.0 ft MWL - Water Level At 0.0 ft AMH - Manhole CB WE1

At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I440 I 440 WE3-WE2 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 8/25/2017 24 24 **RCP** Length surveyed: Surveyed by: Additional info: Hal Helton Downstream 577.4 At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 At 0.0 ft 0.0 ft AMH - Manhole WE3 At 0.0 ft MWL - Water Level 100.0 ft 200.0 ft Juction box 300.0 ft At 351.7 ft 1/3 H - Hole Category: Structural possible point repair? √ Mt 355.8 ft 12/4 B - Broken Category: Structural possible repair? 400.0 ft 500.0 ft At 577.4 ft AMH - Manhole MH# WE2

At 577.4 ft
STOP - Inspection stopped

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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville !440 I 440 WE2-WE4 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 8/25/2017 18 18 **RCP** Additional info: Length surveyed: Surveyed by: Hal Helton Downstream 273.3 ψ At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 At 0.0 ft AMH - Manhole MH# WE2 At 0.0 ft MWL - Water Level 100.0 ft

WE4

√ At 273.3 ft AMH - Manhole MH# WE4

At 273.3 ft
STOP - Inspection stopped

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I440 I 440 WE6-WE7 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 8/28/2017 24 24 **RCP** Direction: Length surveyed: Surveyed by: Additional info: Hal Helton **UPSTREAM** 701.9 WE64 At 701.9 ft STOP - Inspection stopped 0.0 ft ↑ At 701.9 ft AMH - Manhole WE 6 100.0 ft 200.0 ft 300.0 ft At 351.9 ft MGO - General Observation JB3 At 308.7 ft 1/5 CM - Crack Multiple 400.0 ft Category: Structural 500.0 ft At 119.2 ft 9/3 CM - Crack Multiple Category: Structural At 116.8 ft 12/. 600.0 ft Category: Structural At 0.0 ft MWL - Water Level At 0.0 ft AMH - Manhole 700.0 ft MH# WE7

At 0.0 ft
START AGAINST FLOW - Start Inspection Against the Flow

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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 WE 7-WE 8 I 440 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 8/28/2017 24 24 **RCP** Length surveyed: Surveyed by: Additional info: Hal Helton Downstream 756.0 ψ At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 At 0.0 ft AMH - Manhole MH# WE7 √ MWL - Water Level 100.0 ft 200.0 ft 300.0 ft Connection not on map 400.0 ft 500.0 ft

At 756.0 ft AMH - Manhole MH# WE 8

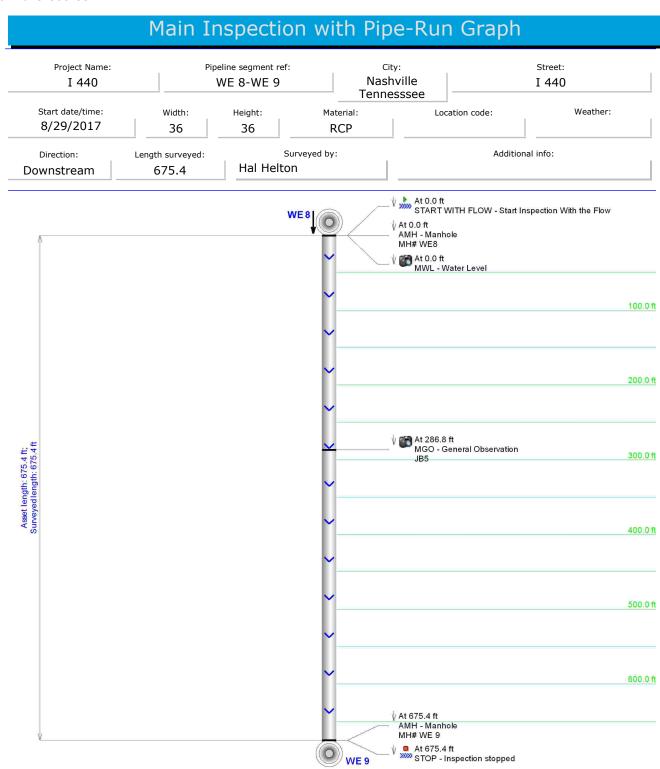
At 756.0 ft
STOP - Inspection stopped

600.0 ft

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 WE 11-WE 10 I 440 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 8/30/2017 60 60 **RCP** Length surveyed: Surveyed by: Additional info: Hal Helton 376.6 Downstream At 0.0 ft START WITH FLOW - Start Inspection With the Flow At 0.0 ft AMH - Manhole MH# WE 11 0.0 ft At 0.0 ft MWL - Water Level At 21.9 ft 5/. IR - Infil Runner Category: O&M At 30.7 ft 5/. IR - Infil Runner Category: O&M 100.0 ft 200.0 ft √ 🚮 At 318.4 ft 5/. IR - Infil Runner Category: O&M At 327.4 ft 5/8 IR - Infil Runner 300.0 ft Category: O&M At 335.8 ft 7/. IR - Infil Runner Category: O&M √ 🚮 At 350.9 ft 8/. IR - Infil Runner Category: O&M √ Mark At 367.9 ft 4/5 IG - Infil Gusher Category: O&M WE 10 √ At 376.6 ft AMH - Manhole MH# WE 10

1

At 376.7 ft
STOP - Inspection stopped

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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 400 I 440 JB 6-WE 11 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 8/30/2017 66 66 **RCP** Surveyed by: Additional info: Direction: Length surveyed: Hal Helton **UPSTREAM** 406.8 At 406.8 ft STOP - Inspection stopped JB 64 At 406.8 ft AMH - Manhole 100.0 ft 200.0 ft 300.0 ft

WE 11

At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

At 0.0 ft MWL - Water Level

At 0.0 ft

AMH - Manhole

MH# WE 11

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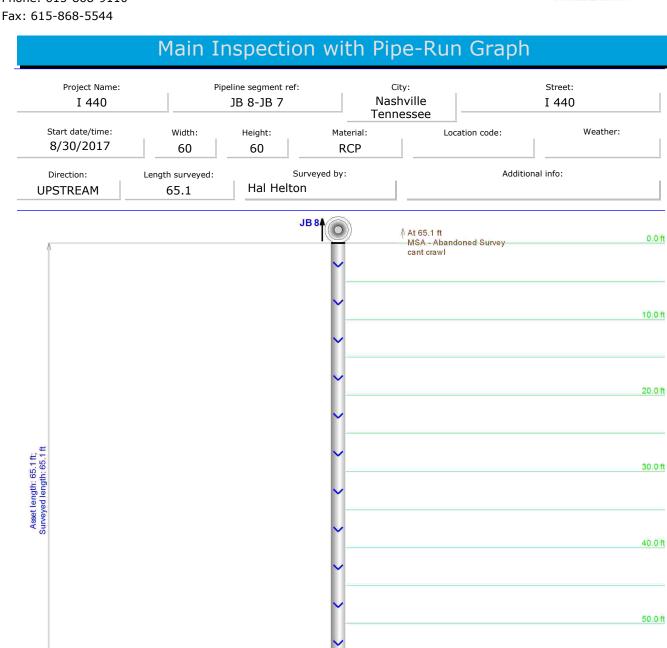
Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: JB7-JB 6 Nasville I 440 I 440 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 8/30/2017 60 60 **RCP** Surveyed by: Additional info: Direction: Length surveyed: Hal Helton **UPSTREAM** 279.0 At 279.0 ft STOP - Inspection stopped JB74 At 279.0 ft AMH - Manhole 100.0 ft 200.0 ft At 0.0 ft MWL - Water Level At 0.0 ft AMH - Manhole

JB 6

At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

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*** At 0.0 ft *** START AGAINST FLOW - Start Inspection Against the Flow

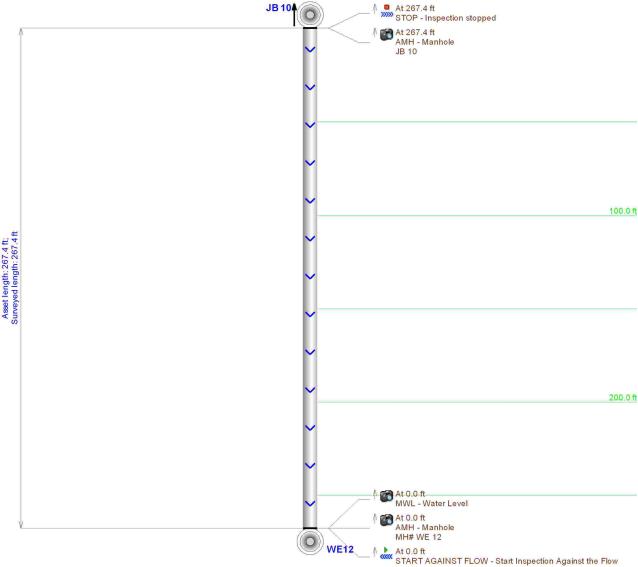
At 0.0 ft MWL - Water Level

At 0.0 ft
AMH - N
JB 7

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I440 I 440 JB 10-WE12 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 8/30/2017 24 24 **RCP** Surveyed by: Additional info: Direction: Length surveyed: Hal Helton 267.4 **UPSTREAM**



of

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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I440 I 440 GW1-JB GW1 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/7/2017 60 60 **RCP** Additional info: Direction: Length surveyed: Surveyed by: Hal Helton **UPSTREAM** 397.1 At 397.1 ft STOP - Inspection stopped At 397.1 ft AMH - Manhole JBGW1 At 397.1 ft MGO - General Observation JB GW1 100.0 ft 200.0 ft 300.0 ft

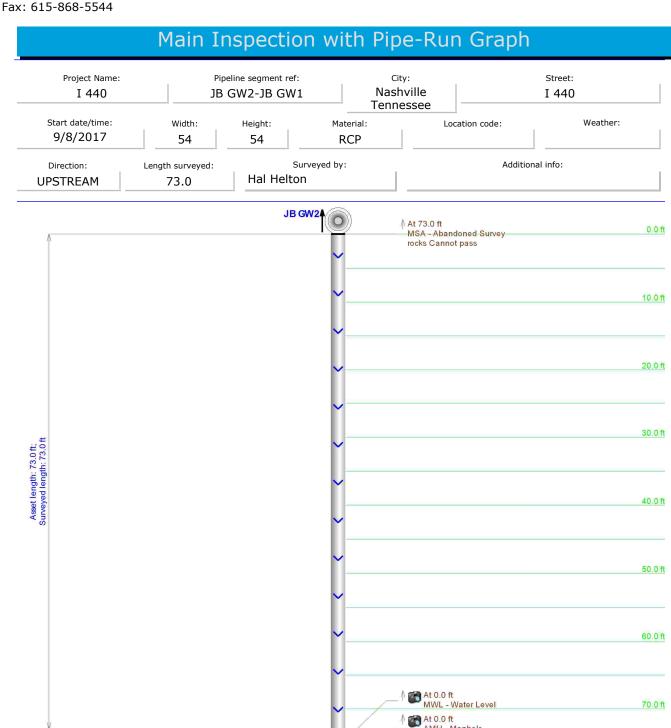
JB GW1 At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

At 0.0 ft MWL - Water Level At 0.0 ft AMH - Manhole

of

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JB GW1 At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

JB GW1

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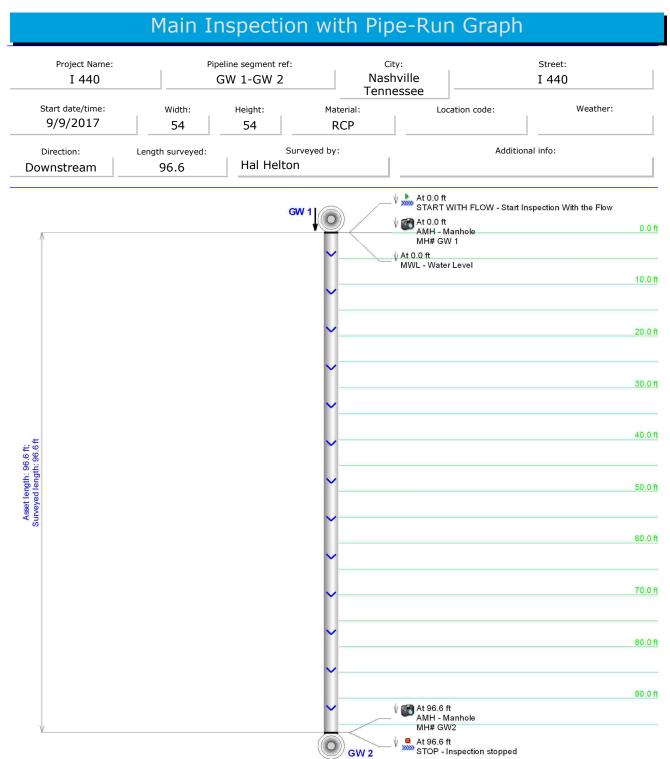


Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I440 I 440 JB GW2-JBGW2 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/8/2017 54 54 **RCP** Additional info: Direction: Length surveyed: Surveyed by: Hal Helton 449.2 **UPSTREAM** JB GW2 At 449.2 ft STOP - Inspection stopped At 449.2 ft AMH - Manhole JB GW2

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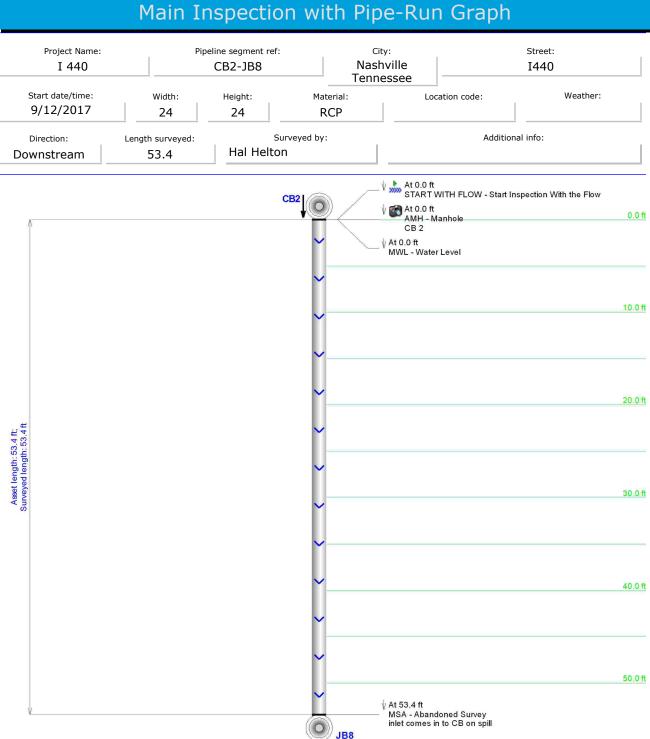
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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 CB 3-JB 7 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/12/2017 18 18 **RCP** Additional info: Length surveyed: Surveyed by: Hal Helton Downstream 60.8 ψ At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 At 0.0 ft 0.0 ft AMH - Manhole CB 3 At 0.0 ft MWL - Water Level 10.0 ft 20.0 ft 30.0 ft 40.0 ft

At 60.8 ft AMH - Manhole

At 60.8 ft
STOP - Inspection stopped

50.0 ft

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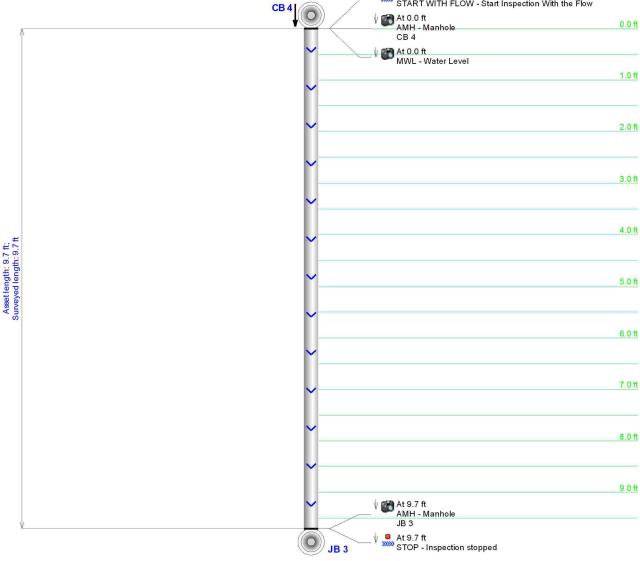


Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 JB 8-JB 7_1 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/12/2017 60 60 **RCP** Direction: Length surveyed: Surveyed by: Additional info: Hal Helton **UPSTREAM** 417.3 **JB84** At 417,3 ft STOP - Inspection stopped At 417.3 ft AMH - Manhole 100.0 ft At 275.1 ft MGO - General Observation Junction Box not on map....275 feet upstream of JB 7 200.0 ft 300.0 ft ↑ At 0.0 ft 400.0 ft MWL - Water Level At 0.0 ft AMH - Manhole JB 8 At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashvillle I 440 I 440 CB 4-JB 3 Tennssee Start date/time: Width: Height: Material: Location code: Weather: 9/13/2017 24 24 **RCP** Additional info: Length surveyed: Surveyed by: Hal Helton Downstream 9.7 ψ At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 At 0.0 ft 0.0 ft AMH - Manhole CB 4 At 0.0 ft MWL - Water Level 1.0 ft



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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 JB 13 -JB 12 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/13/2017 24 24 **RCP** Additional info: Length surveyed: Surveyed by: Hal Helton Downstream 261.0 ψ At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 At 0.0 ft AMH - Manhole JB 13 At 0.0 ft MWL - Water Level

At 261.0 ft AMH - Manhole JB12

At 261.0 ft
STOP - Inspection stopped

100.0 ft

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 JB 22-JB 21 I 440 Tennesse Start date/time: Width: Height: Material: Location code: Weather: 9/13/2017 65 40 **RCP** Length surveyed: Surveyed by: Additional info: Hal Helton Downstream 510.7 At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 At 0.0 ft 0.0 ft AMH - Manhole JB 22 At 0.0 ft MWL - Water Level 100.0 ft 200.0 ft At 298.6 ft MGO - General Observation Possible repair At 310.2 ft 11/1 300.0 ft B - Broken Category: Structural Reinforcement visible At 319.2 ft 4/7 B - Broken Category: Structural 400.0 ft

JB 21

Large obstacles in pipe concrete and stone

√ MSA - Abandoned Survey

of

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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 JB 23-JB 22 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/13/2017 54 54 **RCP** Surveyed by: Additional info: Direction: Length surveyed: Hal Helton **UPSTREAM** 174.0 At 174.0 ft STOP - Inspection stopped JB 234 At 174.0 ft AMH - Manhole JB 23 100.0 ft

JB 22

At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

At 0.0 ft MWL - Water Level At 0.0 ft

AMH - Manhole JB 22

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 JB 24-JB 23 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/14/2017 54 54 **RCP** Surveyed by: Additional info: Direction: Length surveyed: Hal Helton **UPSTREAM** 199.6 At 199.6 ft STOP - Inspection stopped JB 244 0.0 ft At 199.6 ft AMH - Manhole JB 24 100.0 ft At 0.0 ft MWL - Water Level

JB 23

At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

At 0.0 ft AMH - Manhole JB 23

of

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 JB 25-JB 24 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/14/2017 54 54 **RCP** Direction: Length surveyed: Surveyed by: Additional info: Hal Helton **UPSTREAM** 101.3 JB 254 At 101,3 ft STOP - Inspection stopped 0.0 ft At 101.3 ft AMH - Manhole 10.0 ft 20.0 ft 30.0 ft 40.0 ft 50.0 ft 60.0 ft 70.0 ft 80.0 ft 90.0 ft At 0.0 ft MWL - Water Level At 0.0 ft AMH - Manhole 100.0 ft

JB 24

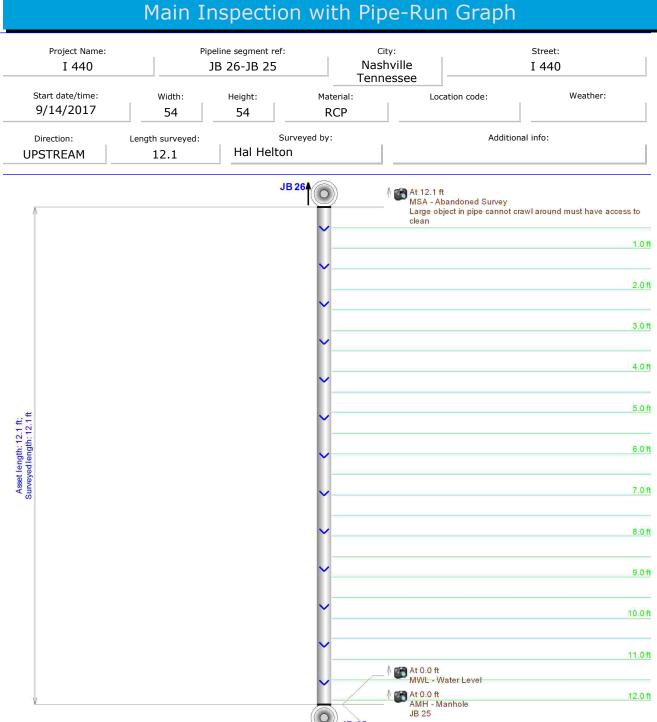
JB 24

At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

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Main Inspection with Ding-Pun Graph



At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

of

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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 JB 34-CB 7 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/14/2017 30 30 **RCP** Surveyed by: Additional info: Direction: Length surveyed: Hal Helton **UPSTREAM** 61.1 At 61.2 ft STOP - Inspection stopped JB 344 At 61.1 ft AMH - Manhole JB 34 10.0 ft 20.0 ft 30.0 ft

CB7

At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

At 0.0 ft MWL - Water Level

At 0.<mark>0 ft</mark> AMH - Manhole

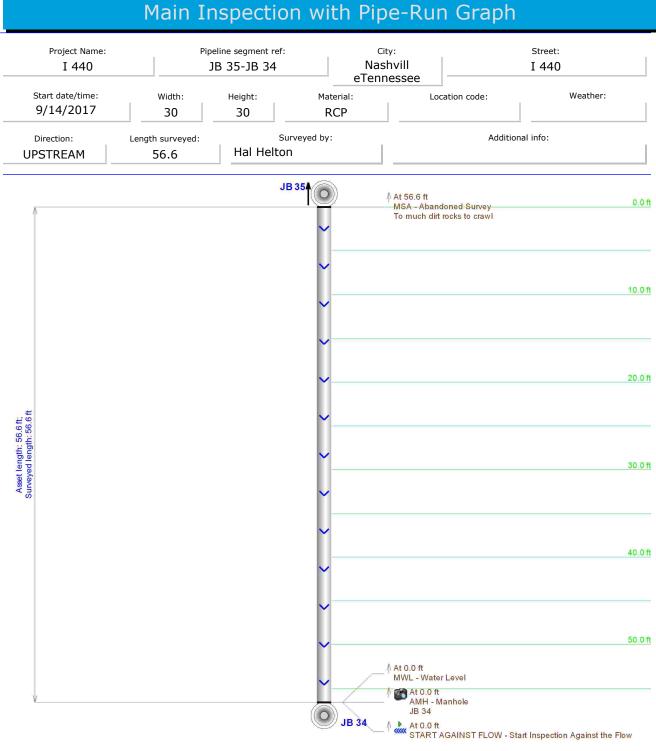
40.0 ft

50.0 ft

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Fax: 615-868-5544

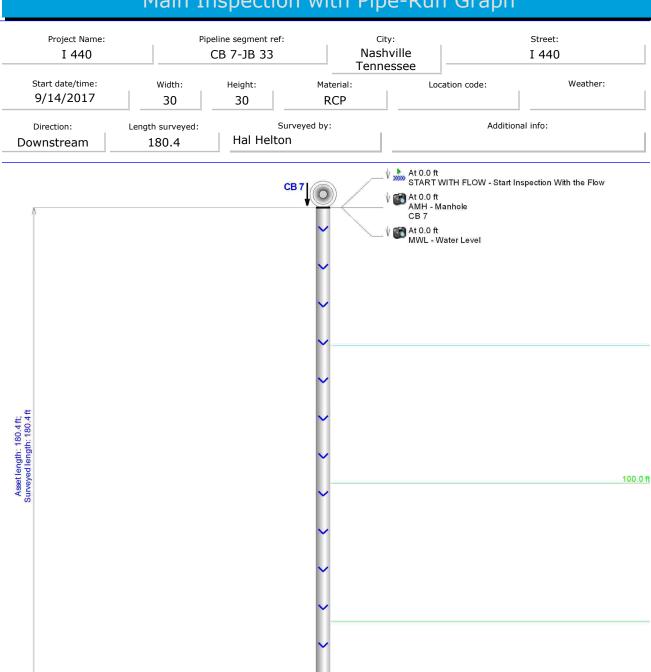


of

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Main Inspection with Pipe-Run Graph



JB 33

MSA - Abandoned Survey Large Objects in pipe...Rocks , stone Cannot pass needs heavy cleaned

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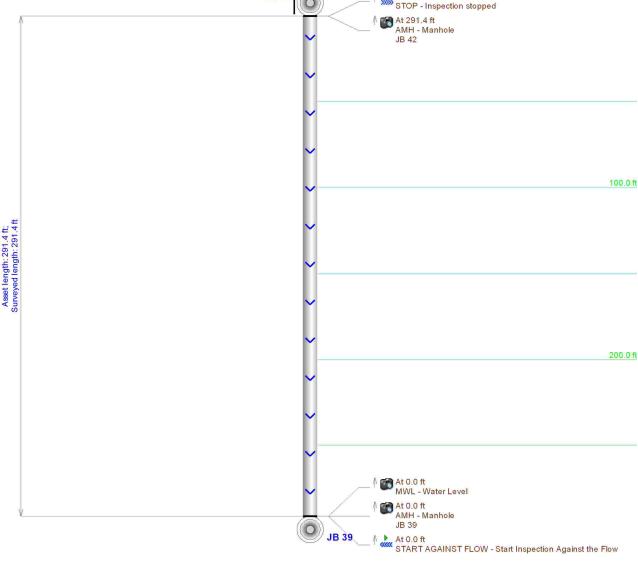
Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 JB 39-HB 1 I 440 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/15/2017 54 54 **RCP** Direction: Length surveyed: Surveyed by: Additional info: Hal Helton **UPSTREAM** 127.0 JB 394 At 127.0 ft STOP - Inspection stopped 0.0 ft At 127.0 ft AMH - Manhole 10.0 ft 20.0 ft At 101.6 ft MGO - General Observation Found catch basin not on the map....named CB11 30.0 ft 40.0 ft 50.0 ft 60.0 ft 70.0 ft 80.0 ft 90.0 ft 100.0 ft 110.0 ft At 0.0 ft MWL - Water Level 120.0 ft At 0.0 ft AMH - Manhole MH # HB 1

At 0.0 ft
START AGAINST FLOW - Start Inspection Against the Flow

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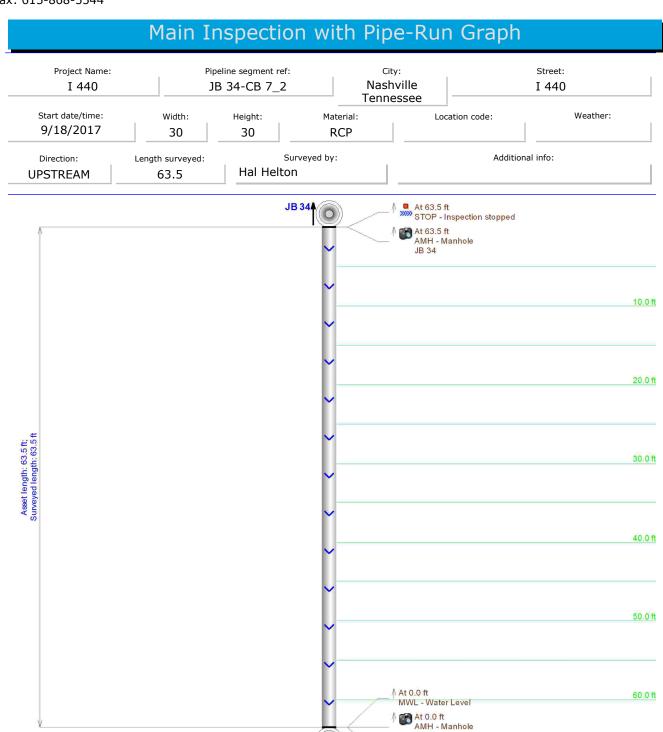


Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 JB 42-JB 39 Tnnessee Start date/time: Width: Height: Material: Location code: Weather: 9/15/2017 48 48 **RCP** Surveyed by: Additional info: Direction: Length surveyed: Hal Helton 291.4 **UPSTREAM** At 291.4 ft STOP - Inspection stopped JB 424



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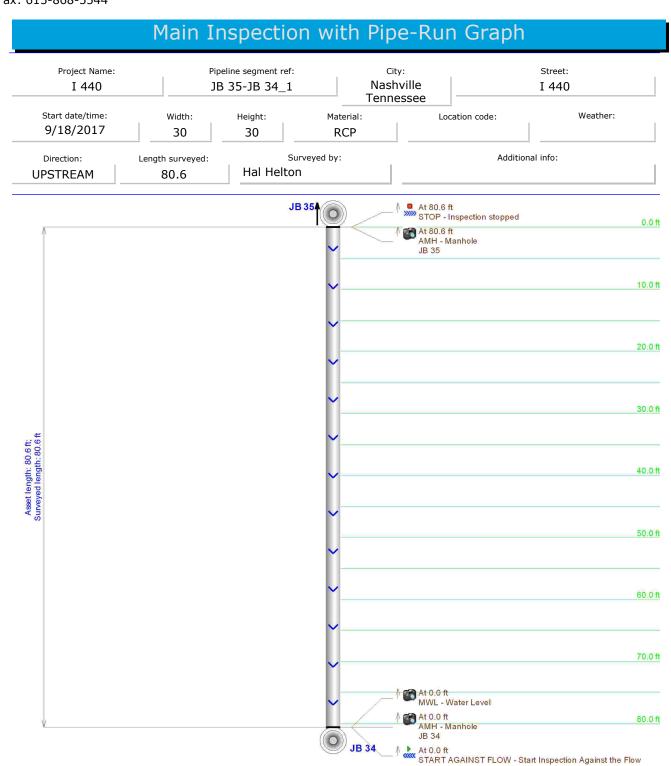


CB7

At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

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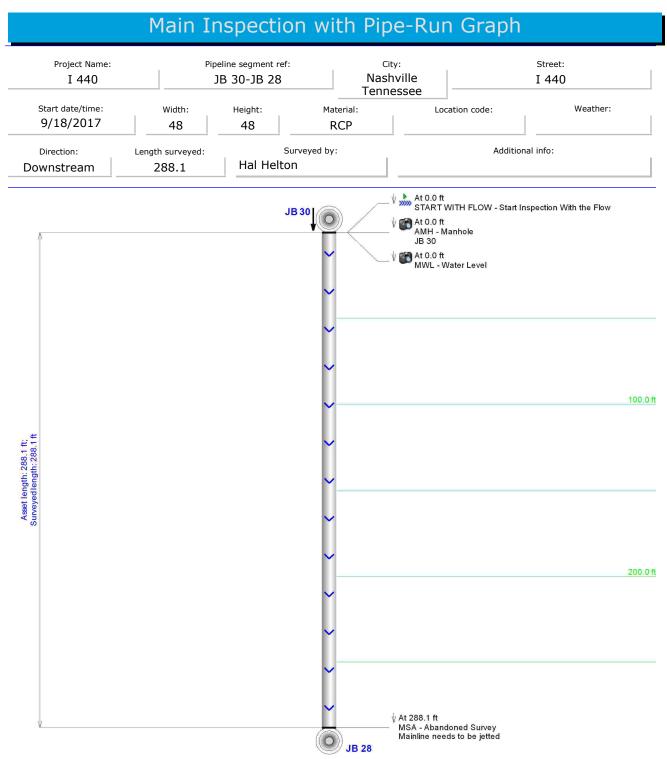




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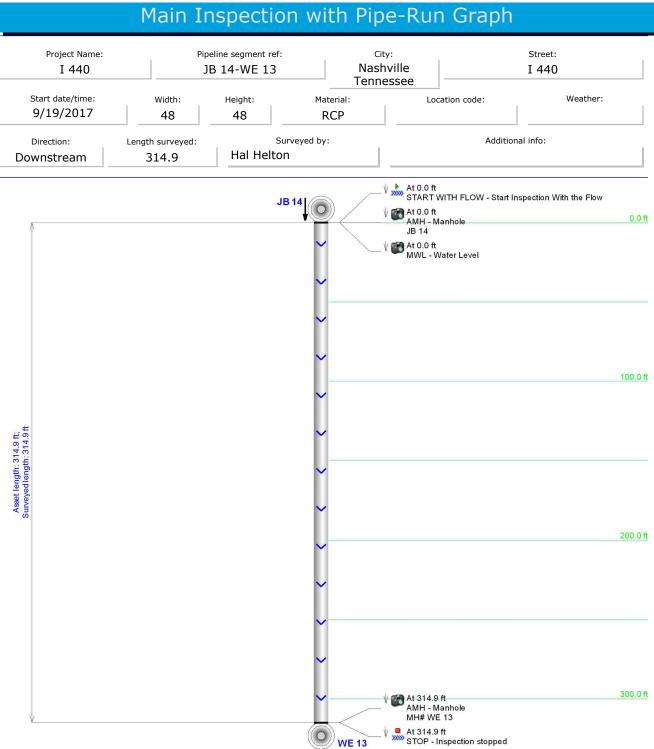
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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 WE 13-JB 11 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/19/2017 54 54 **RCP** Additional info: Length surveyed: Surveyed by: Hal Helton Downstream 328.8 ψ At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 At 0.0 ft AMH - Manhole MH # WE 13 At 0.0 ft MWL - Water Level 100.0 ft

At 328.8 ft AMH - Manhole JB11

At 328.8 ft
STOP - Inspection stopped

200.0 ft

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 JB 12-WE 13 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/19/2017 24 24 **RCP** Direction: Length surveyed: Surveyed by: Additional info: Hal Helton **UPSTREAM** 11.6 At 11.6 ft STOP - Inspection stopped JB 124 0.0 ft At 11.6 ft AMH - Manhole JB 12 1.0 ft 2.0 ft 3.0 ft 4.0 ft 5.0 ft 6.0 ft 7.0 ft 8.0 ft 9.0 ft 10.0 ft At 0.0 ft MWL - Water Level 11.0 ft At 0.0 ft AMH - Manhole

WE 13

At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

MH # WE 13

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 CB 8-CB 9 tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/19/2017 24 24 **RCP** Length surveyed: Surveyed by: Additional info: Hal Helton Downstream 60.3 At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 At 0.0 ft AMH - Manhole CB 8 At 0.0 ft MWL - Water Level 10.0 ft 20.0 ft 30.0 ft 40.0 ft 50.0 ft JB not on map...Flat top concrete At 60.3 ft AMH - Manhole 60.0 ft CB9

At 60.3 ft
STOP - Inspection stopped

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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 CB 9-JB 36 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/19/2017 30 30 **RCP** Length surveyed: Surveyed by: Additional info: Hal Helton Downstream 159.7 ψ At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 AMH - Manhole CB 9 √ MWL - Water Level 10.0 ft 20.0 ft 30.0 ft 40.0 ft 50.0 ft 60.0 ft 70.0 ft

√ 🝘 At 159.7 ft AMH - Manhole JB 36

At 159.7 ft
STOP - Inspection stopped

80.0 ft

90.0 ft

100.0 ft

110.0 ft

120.0 ft

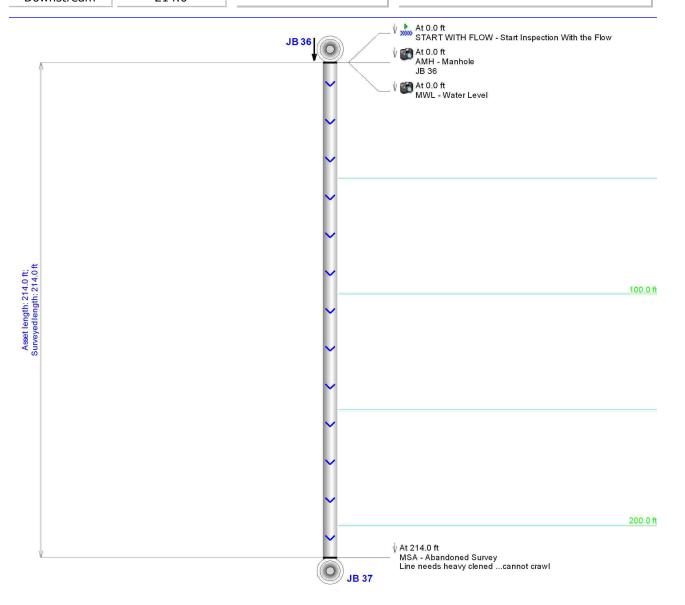
130.0 ft

140.0 ft

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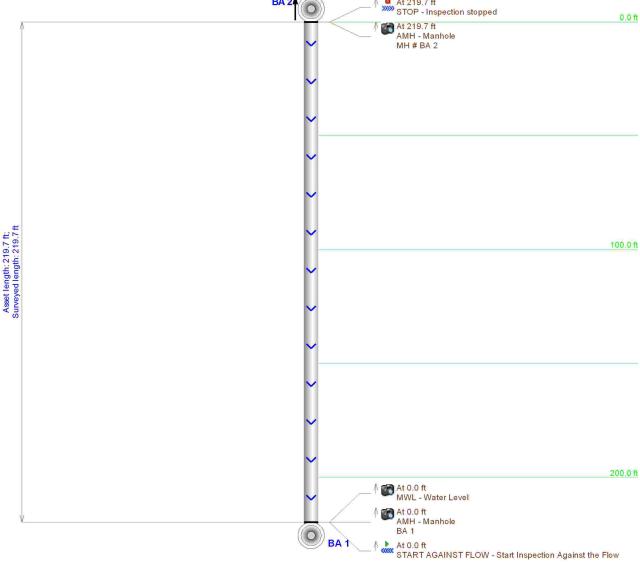
Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 JB 36-JB 37 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/19/2017 30 30 **RCP** Additional info: Length surveyed: Surveyed by: Hal Helton Downstream 214.0



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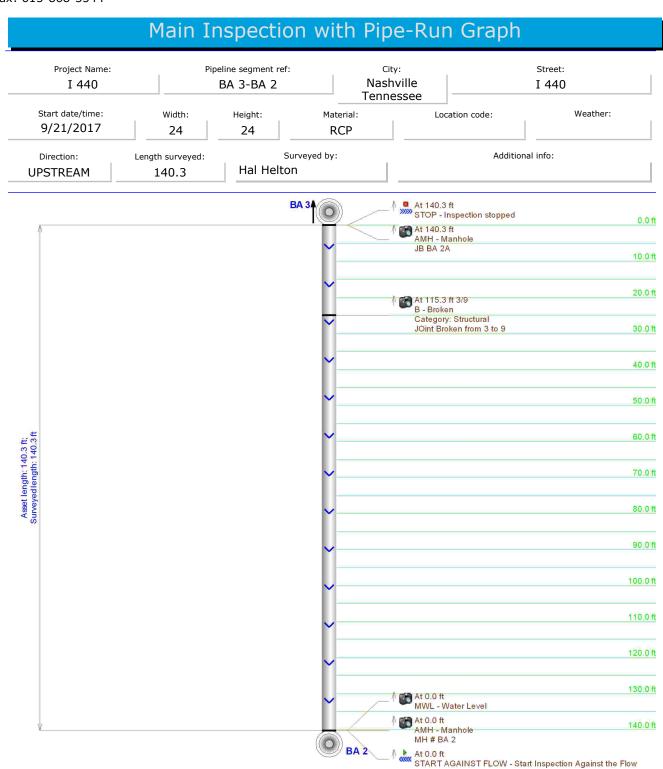
Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 BA 2-BA 1 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/21/2017 24 24 **RCP** Surveyed by: Additional info: Direction: Length surveyed: Hal Helton **UPSTREAM** 219.7 At 219.7 ft STOP - Inspection stopped 0.0 ft



of

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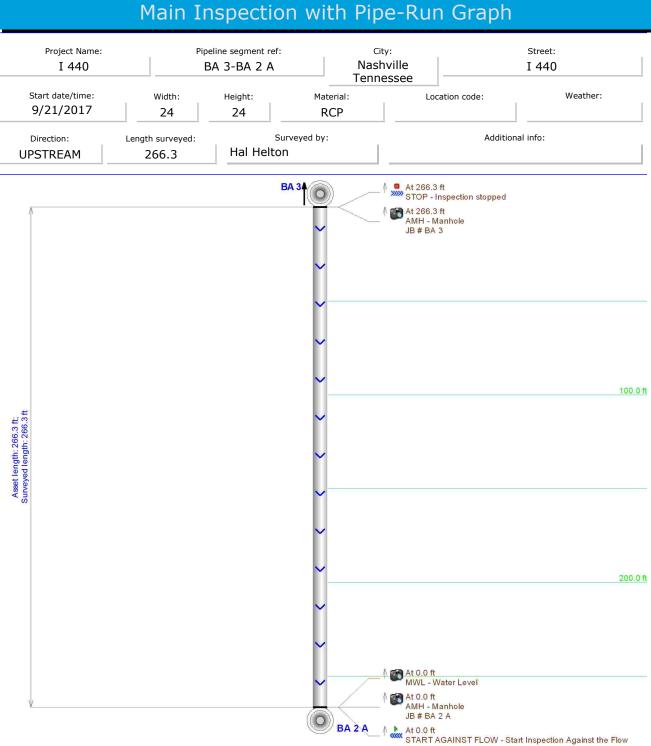




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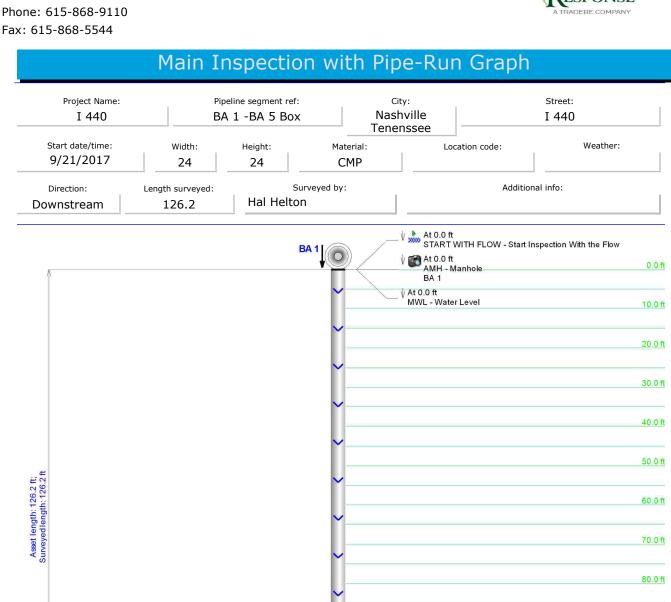


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BA 5 Box

√ At 126.2 ft MSA - Abandoned Survey Will resume in the A.M. permitted time is ending

90.0 ft

100.0 ft

110.0 ft

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50.0 ft

60.0 ft

70.0 ft

80.0 ft

90.0 ft

100.0 ft

110.0 ft

120.0 ft

130.0 ft

Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: NashvilleTennesse I 440 I 440 BA 1-BA 6 Start date/time: Width: Height: Material: Location code: Weather: 9/22/2017 18 18 **RCP** Direction: Length surveyed: Surveyed by: Additional info: Hal Helton **UPSTREAM** 138.4 At 138.4 ft STOP - Inspection stopped At 138.4 ft AMH - Manhole 10.0 ft 20.0 ft 30.0 ft 40.0 ft

At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

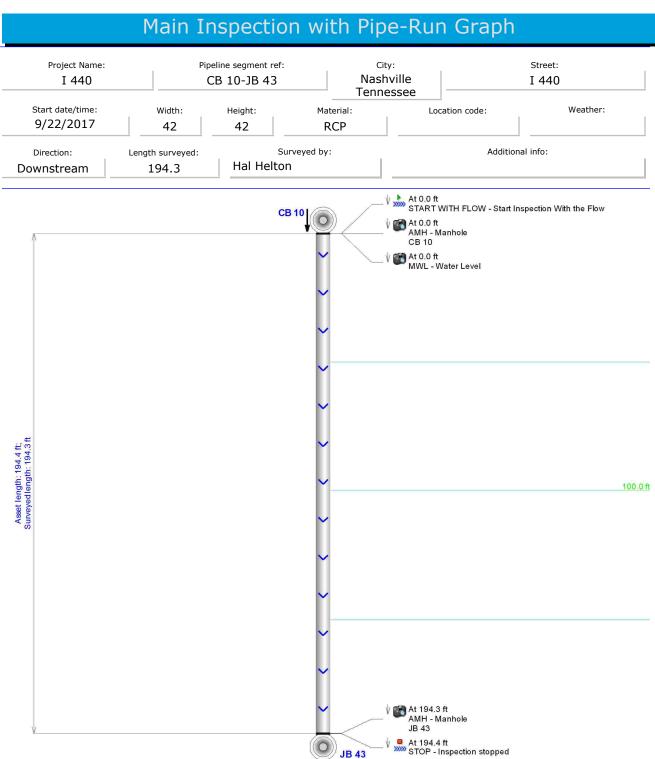
At 0.0 ft MWL - Water Level

At 0.0 ft AMH - Manhole

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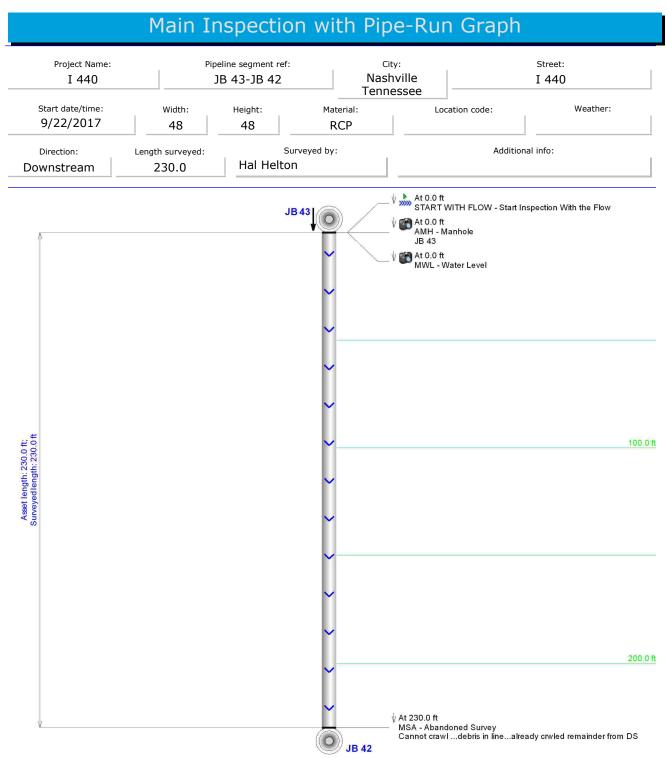
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Fax: 615-868-5544



of

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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: NashvilleTennesse I 440 I 440 CB 9-JB 43 Start date/time: Width: Height: Material: Location code: Weather: 9/27/2017 36 36 **RCP** Length surveyed: Surveyed by: Additional info: Hal Helton Downstream 145.2 At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 √ (At 0.0 ft AMH - Manhole CB 9 √ 📻 At 0.0 ft MWL - Water Level 10.0 ft 20.0 ft 30.0 ft 40.0 ft 50.0 ft 60.0 ft 70.0 ft 80.0 ft 90.0 ft

JB 43

√ At 145.2 ft

AMH - Manhole JB 43

At 145.2 ft STOP - Inspection stopped

100.0 ft

110.0 ft

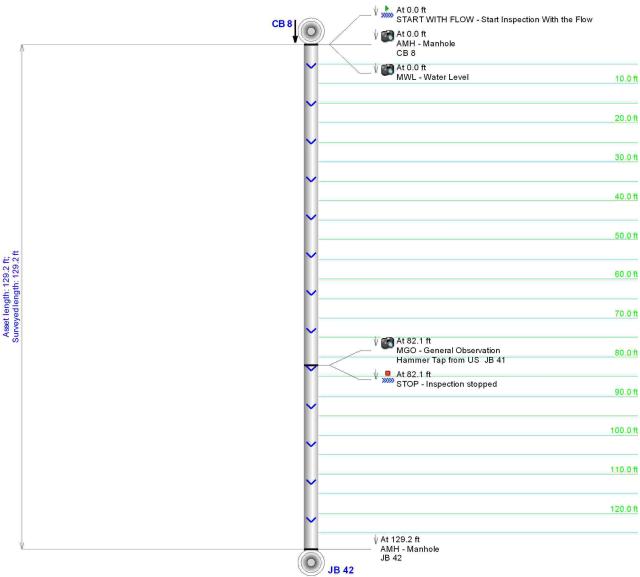
120.0 ft

130.0 ft

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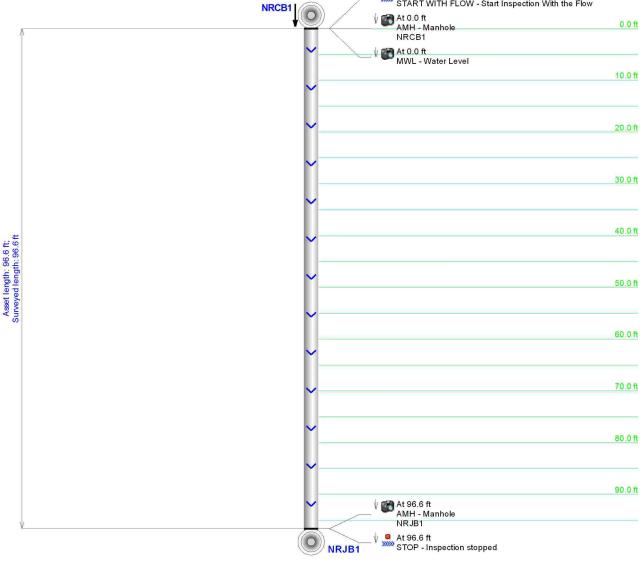
Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 CB 8-JB 42 I 440 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/27/2017 36 36 **RCP** Length surveyed: Surveyed by: Additional info: Hal Helton Downstream 129.2



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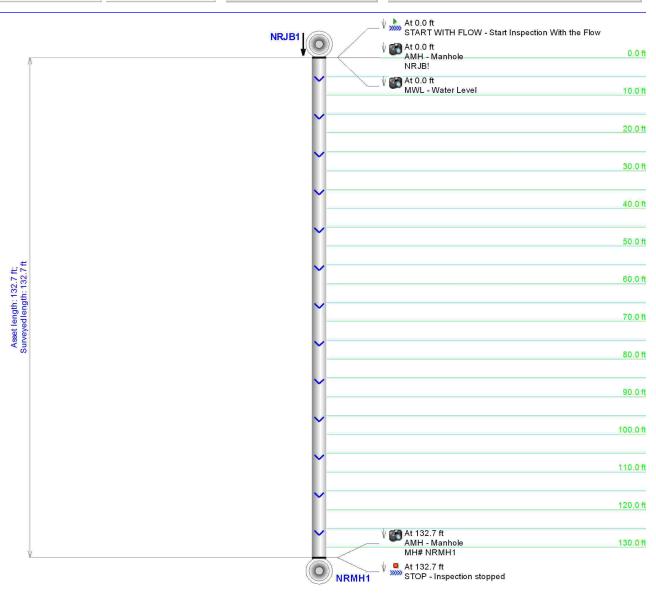
Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 NRCB1-NRJB1 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/27/2017 24 24 **RCP** Additional info: Length surveyed: Surveyed by: Hal Helton Downstream 96.6 ψ At 0.0 ft START WITH FLOW - Start Inspection With the Flow At 0.0 ft 0.0 ft AMH - Manhole NRCB1 At 0.0 ft MWL - Water Level



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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I440 I 440 NRJB1-NRMH1 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/27/2017 30 30 **RCP** Length surveyed: Surveyed by: Additional info: Hal Helton Downstream 132.7



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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I440 I 440 NRMH1-NRCB3 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/27/2017 36 36 **RCP** Additional info: Length surveyed: Surveyed by: Hal Helton 509.4 Downstream ψ At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 √ (At 0.0 ft 0.0 ft AMH - Manhole MH# NRMH1 At 0.0 ft MWL - Water Level 100.0 ft 200.0 ft 300.0 ft 400.0 ft At 509.4 ft AMH - Manhole NRCB 3 500.0 ft

NRCB3

At 509.4 ft
STOP - Inspection stopped

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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I440 I 440 NRCB 2-NRJB 1 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/28/2017 18 18 **RCP** Length surveyed: Surveyed by: Additional info: Hal Helton Downstream 114.7 At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 At 0.0 ft 0.0 ft AMH - Manhole NRCB2 At 0.0 ft MWL - Water Level 10.0 ft 20.0 ft 30.0 ft 40.0 ft 50.0 ft 60.0 ft 70.0 ft 80.0 ft Category: Structural 90.0 ft

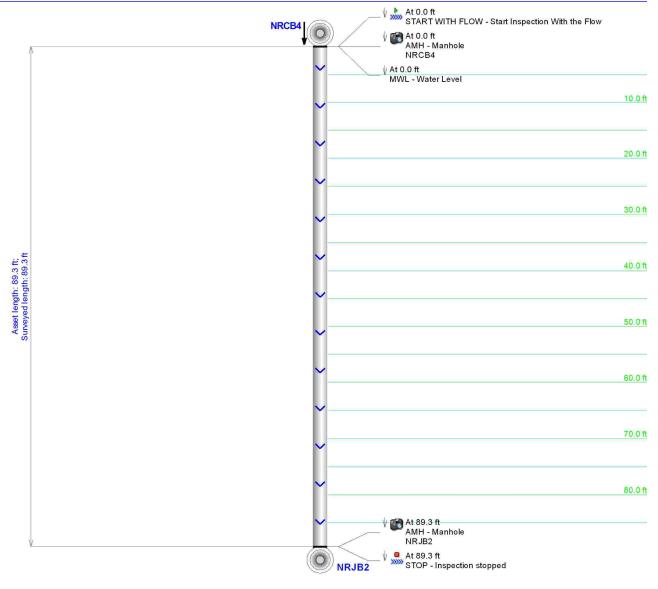
NRJB 1

√ At 114.7 ft MSA - Abandoned Survey Large stone in pipe cannot pass 100.0 ft

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I440 I 440 NRCB4-NRJB2 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/28/2017 18 18 **RCP** Additional info: Length surveyed: Surveyed by: Hal Helton Downstream 89.3



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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I440 I 440 NRJB2-NRJB3 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/28/2017 48 24 **RCP** Additional info: Length surveyed: Surveyed by: Hal Helton Downstream 99.6 ψ At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 √ (At 0.0 ft 0.0 ft AMH - Manhole NRJB2 At 0.0 ft MWL - Water Level 10.0 ft 20.0 ft 30.0 ft 40.0 ft 50.0 ft 60.0 ft 70.0 ft 80.0 ft

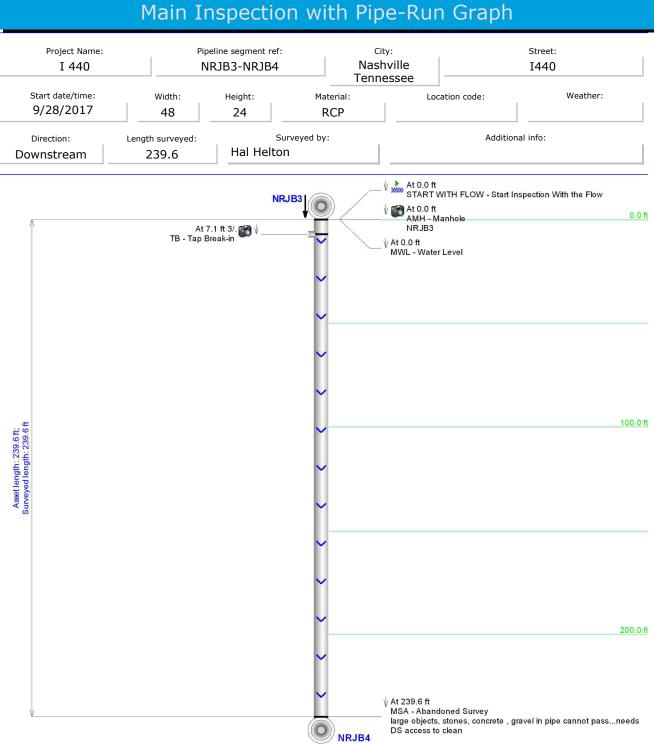
At 99.6 ft AMH - Manhole NRJB3

At 99.6 ft
STOP - Inspection stopped

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of

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I440 I 440 NRCB5-NRMH2 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/29/2017 24 24 **RCP** Additional info: Length surveyed: Surveyed by: Hal Helton Downstream 62.0 ψ At 0.0 ft START WITH FLOW - Start Inspection With the Flow At 0.0 ft 0.0 ft AMH - Manhole NRCB5 At 0.0 ft MWL - Water Level 10.0 ft 20.0 ft 30.0 ft 40.0 ft 50.0 ft At 62.0 ft AMH - Manhole 60.0 ft

NRMH2

NRMH2

At 62.0 ft
STOP - Inspection stopped

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I440 I 440 NRMH2-NRJB5 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/29/2017 42 42 **RCP** Length surveyed: Surveyed by: Additional info: Hal Helton Downstream 47.1 At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 At 0.0 ft AMH - Manhole NRMH2 At 0.0 ft MWL - Water Level 10.0 ft 20.0 ft Category: O&M Appears that communication cables are punched through 42" 0 ft Storm water line 40.0 ft At 47.1 ft AMH - Manhole NRJB5

NRJB5

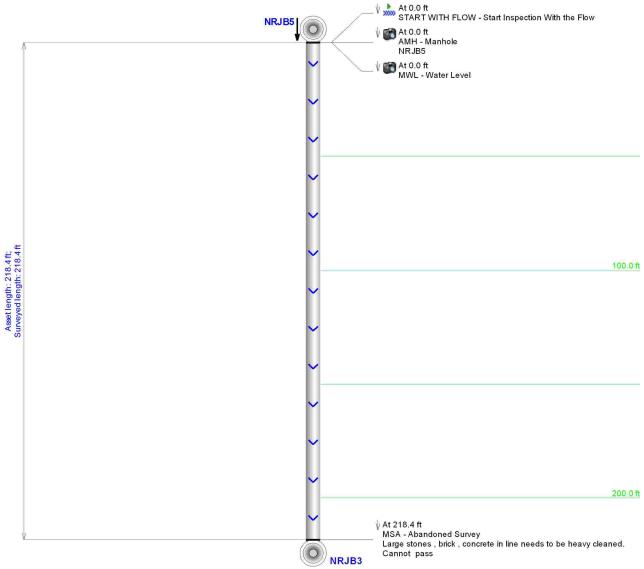
At 47.1 ft
STOP - Inspection stopped

of

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I440 I 440 NRJB5-NRJB3 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 9/29/2017 42 42 **RCP** Additional info: Length surveyed: Surveyed by: Hal Helton Downstream 218.4



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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 WDCB1-JB 21 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/3/2017 18 18 **RCP** Additional info: Direction: Length surveyed: Surveyed by: Hal Helton Downstream 57.0 ψ At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 At 0.0 ft 0.0 ft AMH - Manhole WDCB1 At 0.0 ft MWL - Water Level 10.0 ft 20.0 ft 30.0 ft 40.0 ft 50.0 ft At 57.0 ft AMH - Manhole

JB 21

JB 21

At 57.0 ft
STOP - Inspection stopped

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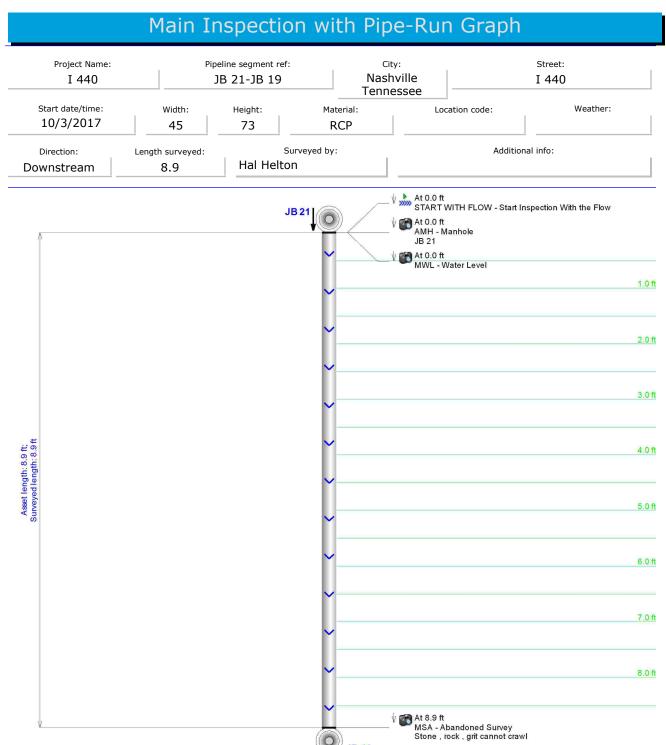
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JB 19

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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville i 440 I 440 cb5-jb 32 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/3/2017 24 24 **RCP** Additional info: Direction: Length surveyed: Surveyed by: Hal Helton Downstream 68.6 ψ At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 At 0.0 ft 0.0 ft AMH - Manhole cb5 MWL - Water Level 10.0 ft 20.0 ft 30.0 ft

At 68.6 ft AMH - Manhole JB 32

At 68.6 ft
STOP - Inspection stopped

40.0 ft

50.0 ft

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: NAshville I 440 I 440 jb 32-unknown 1 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/3/2017 48 48 **RCP** Additional info: Direction: Length surveyed: Surveyed by: Hal Helton Downstream 3.4 At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 At 0.0 ft AMH - Manhole JB 32 At 0.0 ft MWL - Water Level 1.0 ft 2.0 ft 3.0 ft √ Mt 3.4 ft 3/4 OBZ - Obstacle Other Category: O&M Appearsto have large rock penetrating through pipe wall

unknown 1

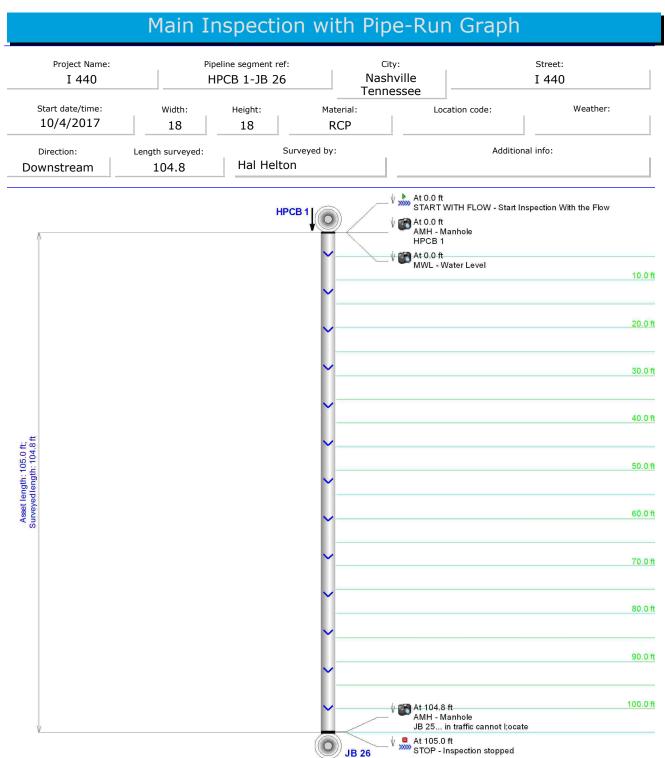
At 3.4 ft
MSA - Abandoned Survey

large rock in side of pipe

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of

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashvilloe I 440 I 440 FACB1-MAIN 1 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/4/2017 18 18 **RCP** Additional info: Direction: Length surveyed: Surveyed by: Hal Helton Downstream 33.4 ψ At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 √ (At 0.0 ft AMH - Manhole FACB1 0.0 ft At 0.0 ft MWL - Water Level 10.0 ft 20.0 ft 30.0 ft

MAIN 1

At 33.4 ft
AMH - Manhole
main1

At 33.4 ft
STOP - Inspection stopped

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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 FACB5-FACB6 Tennesee Start date/time: Width: Height: Material: Location code: Weather: 10/4/2017 54 54 **RCP** Additional info: Direction: Length surveyed: Surveyed by: Hal Helton 350.7 Downstream ψ At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 At 0.0 ft 0.0 ft AMH - Manhole FACB5 At 0.0 ft MWL - Water Level 100.0 ft

FACB6

At 350.7 ft AMH - Manhole FACB6

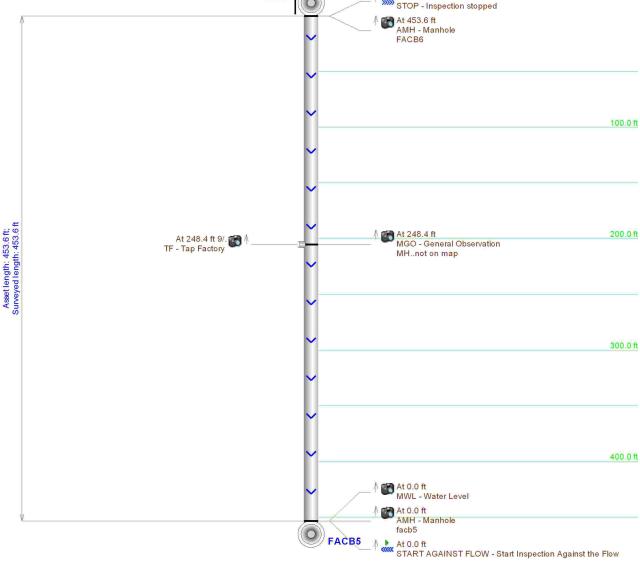
At 350.7 ft
STOP - Inspection stopped

200.0 ft

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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 FACB6-FACB5 I 440 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/6/2017 54 54 **RCP** Direction: Length surveyed: Surveyed by: Additional info: Hal Helton **UPSTREAM** 453.6 FACB6 At 453,6 ft STOP - Inspection stopped At 453.6 ft AMH - Manhole FACB6



of

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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 FACB6-FACB8 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/6/2017 54 54 **RCP** Surveyed by: Additional info: Direction: Length surveyed: Hal Helton 250.6 **UPSTREAM** FACB6 At 250.6 ft MSA - Abandoned Survey 0.0 ft Ran out of permitted time 100.0 ft

FACB8

At 0.0 ft
START AGAINST FLOW - Start Inspection Against the Flow

At 0.0 ft MWL - Water Level

At 0.0 ft FACB6

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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I440 I 440 FACB8-FACB6 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/9/2017 54 54 **RCP** Direction: Length surveyed: Surveyed by: Additional info: Hal Helton **UPSTREAM** 438.5 FACB8 At 438.5 ft MSA - Abandoned Survey Out of permitted time At 408.1 ft 3/. TB - Tap Break-in At 370.6 ft 9/. TB - Tap Break-in At 340.4 ft 3/. TB - Tap Break-in 100.0 ft 200.0 ft

FACB6

1

At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

At 0.0 ft MWL - Water Level At 0.0 ft AMH - Manhole FACB6

300.0 ft

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 FACB8-FACB6 B Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/11/2017 54 54 **RCP** Direction: Length surveyed: Surveyed by: Additional info: Hal Helton **UPSTREAM** 596.3 FACB8 At 596,3 ft STOP - Inspection stopped At 596.3 ft AMH - Manhole FACB8 100.0 ft At 408.2 ft 3/. TB - Tap Break-in 200.0 ft 300.0 ft 400.0 ft 500.0 ft At 0.0 ft MWL - Water Level At 0.0 ft AMH - Manhole

FACB6 B At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

FACB6

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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 NRJB4-FACB8 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/11/2017 54 54 **RCP** Surveyed by: Additional info: Direction: Length surveyed: Hal Helton **UPSTREAM** 53.4 NRJB4 At 53.4 ft STOP - Inspection stopped 0.0 ft At 53.4 ft AMH - Manhole NRJB4 10.0 ft 20.0 ft 30.0 ft 40.0 ft 50.0 ft At 0.0 ft MWL - Water Level

FACB8

At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

At 0.0 ft AMH - Manhole FACB8

of

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Fax: 615-868-5544

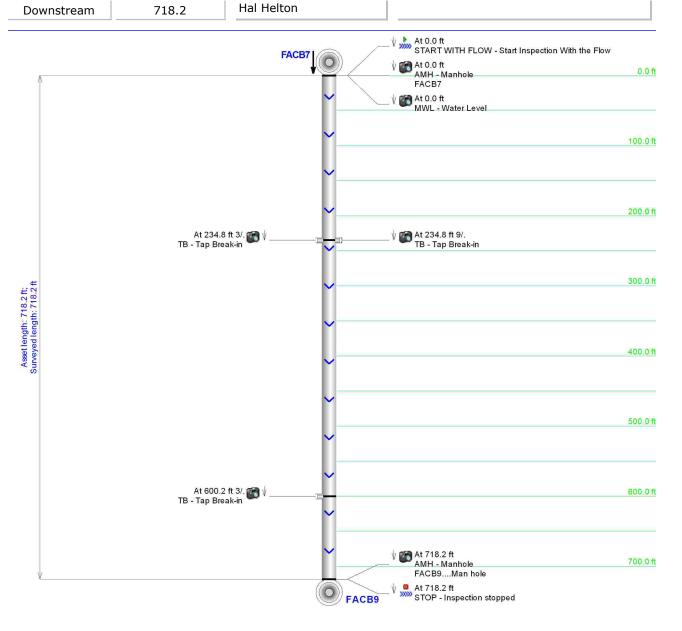


FACB9

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 FACB7-FACB9_1 I 440 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/12/2017 54 54 **RCP** Direction: Length surveyed: Surveyed by: Additional info:



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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 FACB9-FAMH1 I 440 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/12/2017 54 54 **RCP** Length surveyed: Surveyed by: Additional info: Hal Helton 125.1 Downstream At 0.0 ft START WITH FLOW - Start Inspection With the Flow At 0.0 ft AMH - Manhole FACB9 At 0.0 ft MWL - Water Level 10.0 ft 20.0 ft 30.0 ft 40.0 ft 50.0 ft 60.0 ft 70.0 ft 80.0 ft

FAMH1

Appear to have I beamhammered through pipe near bridge 0.0 ft

At 125.1 ft 7/11
OBI - Obstacle Intruding Thru Wall

Category: O&M

MSA - Abandoned Survey I beam through pipe

At 125.1 ft 7/11 H - Hole Category: Structural I beam through pipe

V At 125.1 ft

90.0 ft

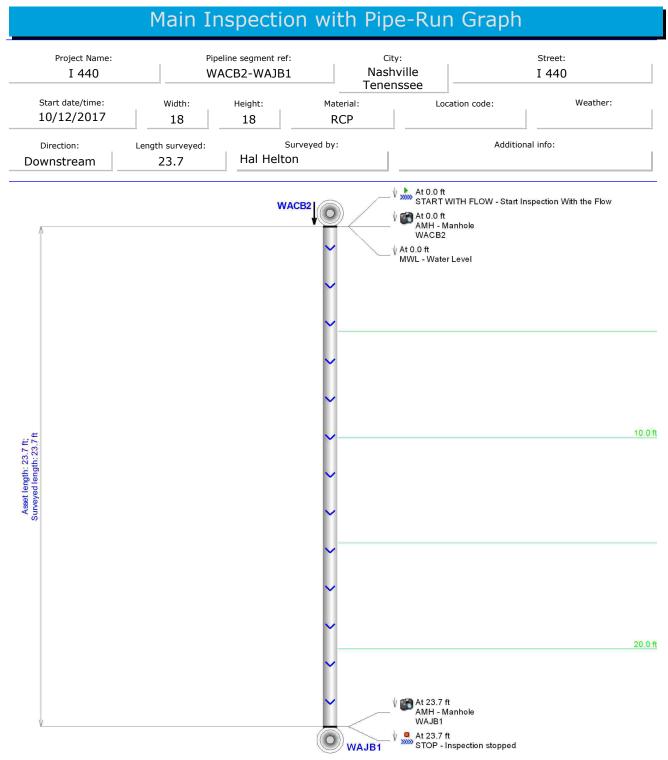
100.0 ft

110.0 ft

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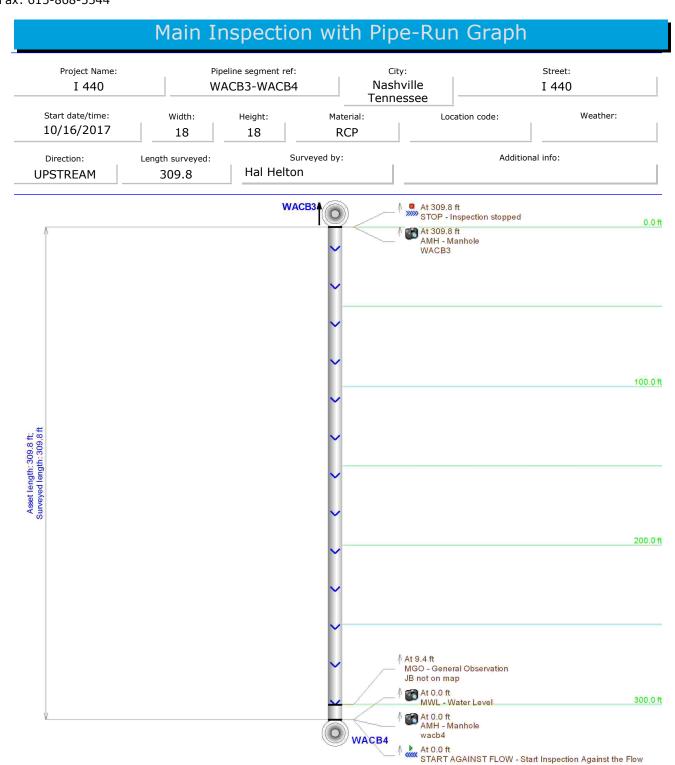
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of

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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 WAJB2-WACB3 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/16/2017 18 18 **RCP** Surveyed by: Additional info: Direction: Length surveyed: Hal Helton **UPSTREAM** 202.2 At 202.2 ft STOP - Inspection stopped WAJB2 At 202.2 ft AMH - Manhole WAJB2 100.0 ft At 0.0 ft MWL - Water Level At 0.0 ft AMH - Manhole 200.0 ft

WACB3

At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

WACB3

of

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 WAJB2-WAJB3 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/16/2017 18 18 **RCP** Direction: Length surveyed: Surveyed by: Additional info: Hal Helton 100.5 **UPSTREAM** WAJB2 At 100,5 ft STOP - Inspection stopped At 100.5 ft AMH - Manhole WAJB3 10.0 ft 20.0 ft 30.0 ft 40.0 ft 50.0 ft 60.0 ft 70.0 ft 80.0 ft 90.0 ft At 0.0 ft MWL - Water Level At 0.0 ft AMH - Manhole 100.0 ft

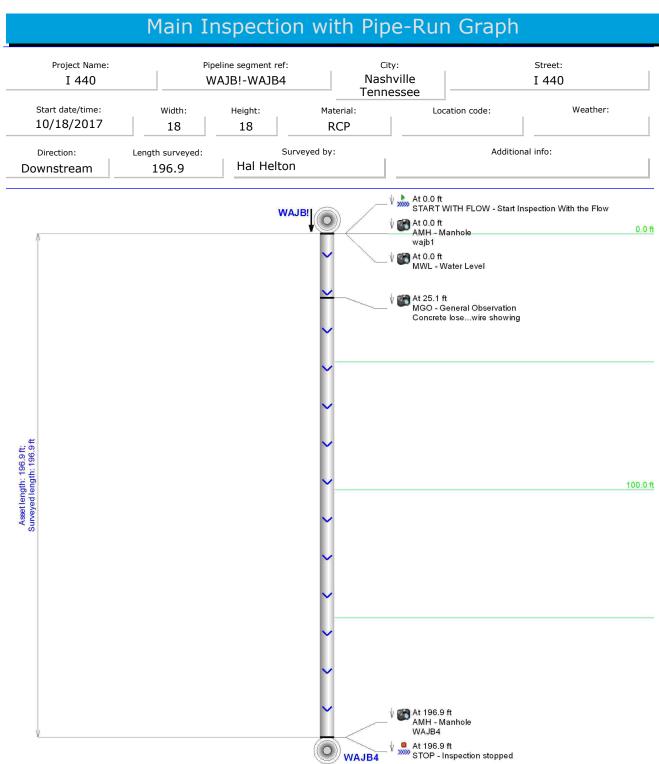
At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

wajb2

First Response, A Tradebe Company

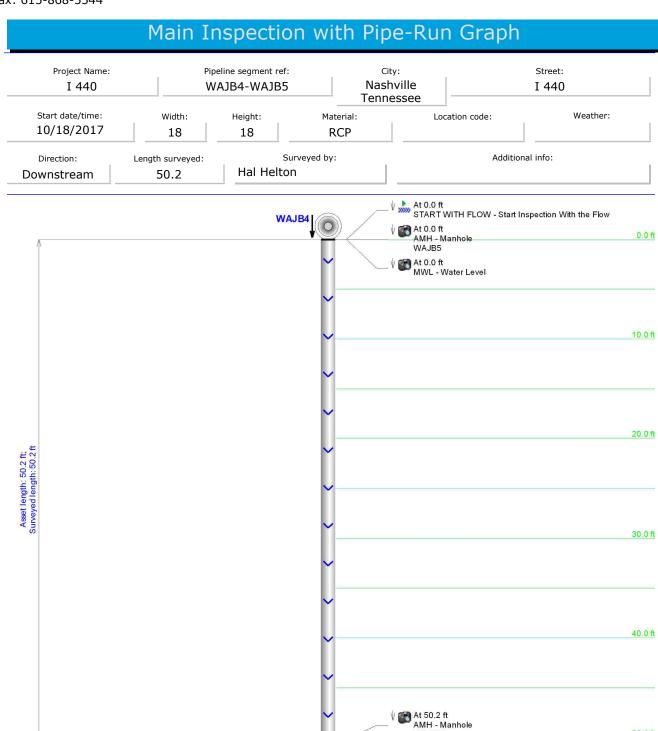
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WAJB5

WAJB5

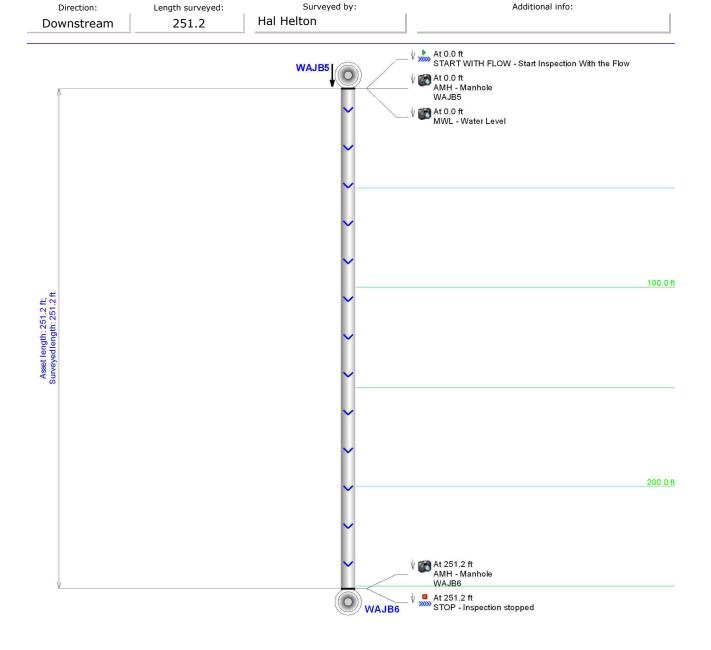
At 50.2 ft
STOP - Inspection stopped

50.0 ft

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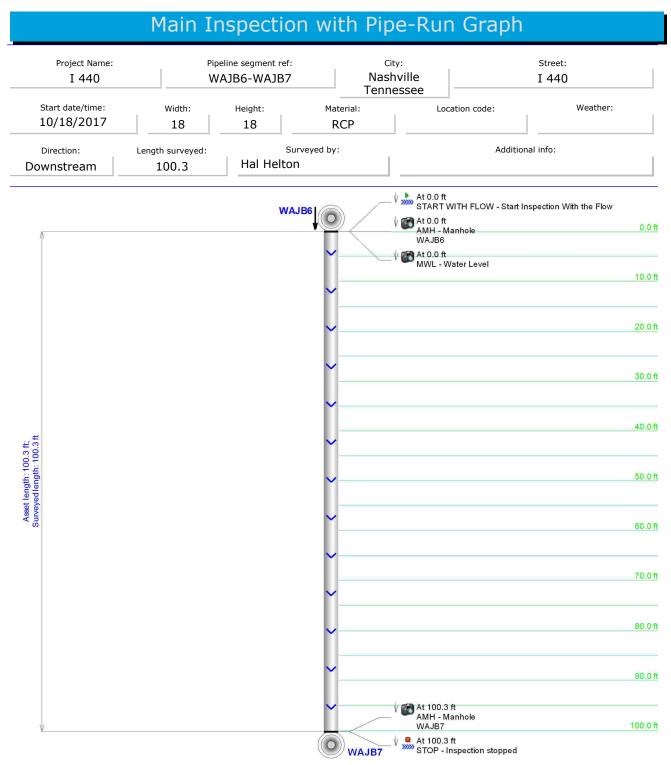


Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Naswhvilloe I 440 I 440 WAJB5-WAJB6 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/18/2017 18 18 **RCP**



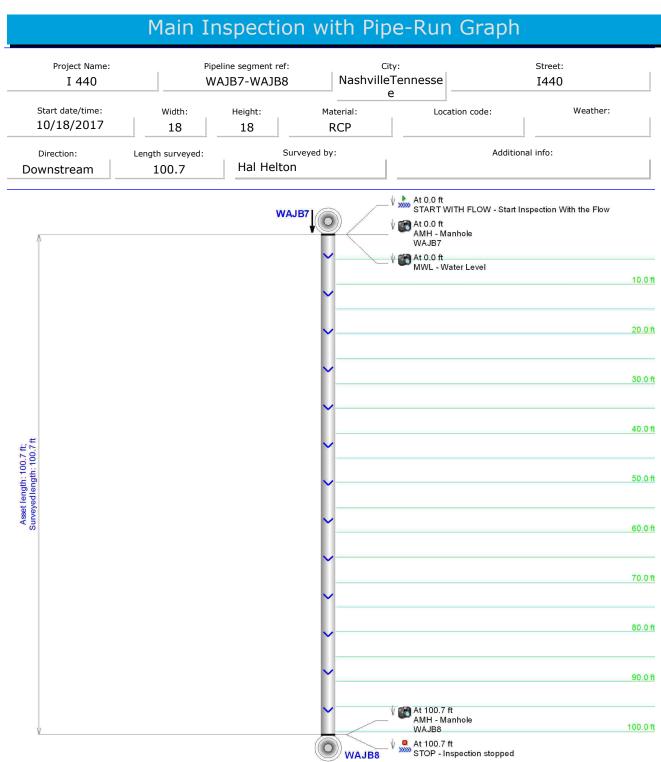
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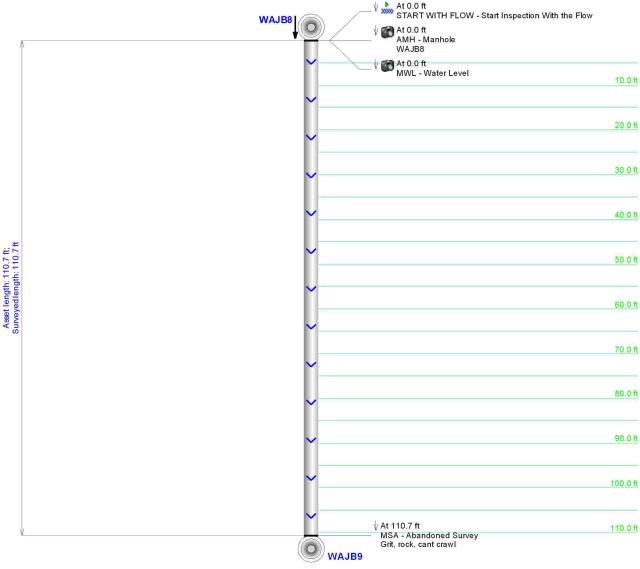




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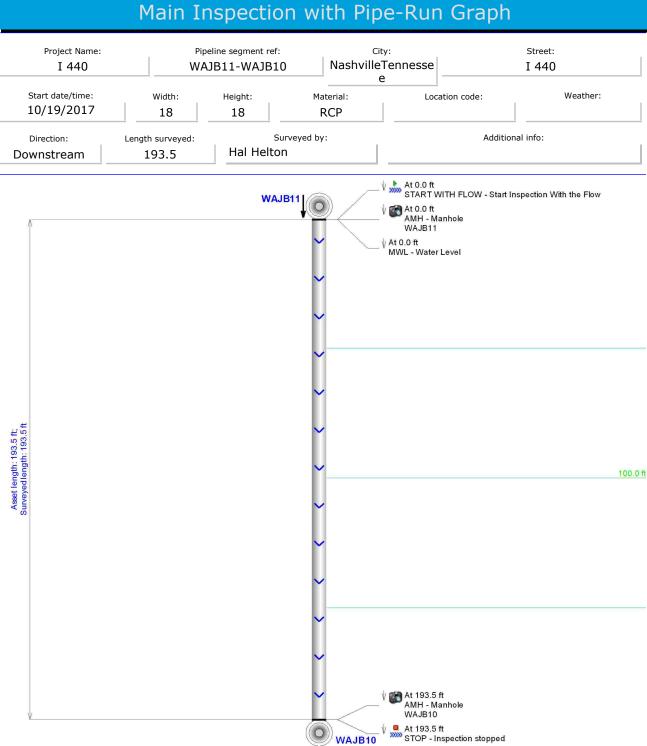


Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 WAJB8-WAJB9 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/19/2017 18 18 **RCP** Additional info: Length surveyed: Surveyed by: Hal Helton Downstream 110.7 At 0.0 ft



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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 BACB1-GWJB6 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/20/2017 30 30 **RCP** Length surveyed: Surveyed by: Additional info: Hal Helton Downstream 14.6 At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 √ (At 0.0 ft AMH - Manhole BACB1 √ 📻 At 0.0 ft MWL - Water Level 1.0 ft 2.0 ft 3.0 ft 4.0 ft 5.0 ft 6.0 ft 7.0 ft 8.0 ft 9.0 ft

GWJB6

At 14.6 ft AMH - Manhole

At 14.6 ft STOP - Inspection stopped

GWJB6

10.0 ft

11.0 ft

12.0 ft

13.0 ft

14.0 ft

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30.0 ft

40.0 ft

50.0 ft

60.0 ft

70.0 ft

80.0 ft

90.0 ft

Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: NashvilleTennesse I 440 I 440 BACB3A-BAJB1A_1 Start date/time: Width: Height: Material: Location code: Weather: 10/20/2017 30 30 **RCP** Additional info: Length surveyed: Surveyed by: Hal Helton Downstream 96.2 ψ At 0.0 ft START WITH FLOW - Start Inspection With the Flow At 0.0 ft 0.0 ft AMH - Manhole BACB3A At 0.0 ft MWL - Water Level 10.0 ft 20.0 ft

BAJB1A

At 96.2 ft AMH - Manhole BAJB1A

At 96.2 ft
STOP - Inspection stopped

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Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 BAJB1A-BAJB2A Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/20/2017 42 42 **RCP** Additional info: Length surveyed: Surveyed by: Hal Helton Downstream 77.1 ψ At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 At 0.0 ft 0.0 ft AMH - Manhole BAJB1A At 0.0 ft MWL - Water Level 10.0 ft 20.0 ft 30.0 ft 40.0 ft 50.0 ft

BAJB2A

√ At 77.1 ft MSA - Abandoned Survey Ou tof time per permit 60.0 ft

70.0 ft

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100.0 ft

200.0 ft

300.0 ft

Fax: 615-868-5544 Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 WE 11-WE 10_1 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/24/2017 60 60 **RCP** Length surveyed: Surveyed by: Additional info: Hal Helton 379.2 Downstream ψ At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 √ (At 0.0 ft 0.0 ft AMH - Manhole WE 11 At 0.0 ft MWL - Water Level

At 253.3 ft

MGO - General Observation

JB not on map

At 379.2 ft AMH - Manhole WE10...concrete vault

At 379.3 ft
STOP - Inspection stopped

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 JB5-WE9 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/25/2017 42 42 **RCP** Surveyed by: Additional info: Direction: Length surveyed: Hal Helton **UPSTREAM** 387.2 JB54 At 387.2 ft STOP - Inspection stopped At 387.2 ft AMH - Manhole JB5 100.0 ft 200.0 ft 300.0 ft At 0.0 ft MWL - Water Level At 0.0 ft AMH - Manhole

At 0.0 ft START AGAINST FLOW - Start Inspection Against the Flow

we 9

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 WE14-JB15 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/26/2017 18 18 **RCP** Additional info: Direction: Length surveyed: Surveyed by: Hal Helton Downstream 451.5 ψ At 0.0 ft START WITH FLOW - Start Inspection With the Flow 0 At 0.0 ft 0.0 ft AMH - Manhole WE14 At 0.0 ft MWL - Water Level 100.0 ft 200.0 ft 300.0 ft 400.0 ft At 451.5 ft AMH - Manhole

JB15

JB15

At 451.5 ft STOP - Inspection stopped

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Main Inspection with Pipe-Run Graph Project Name: Pipeline segment ref: City: Street: Nashville I 440 I 440 JB15-JB16 Tennessee Start date/time: Width: Height: Material: Location code: Weather: 10/26/2017 30 30 **RCP** Additional info: Direction: Length surveyed: Surveyed by:

