

APPENDIX D

SOIL BORING LOGS / CORE LOGS



Sterling Environmental Engineering, P.C.

Page 1 of 1**Boring ID:** **MW-1S**Project Name/No. Troy Belting 2011-31Location: Watervliet, NYDrilling Contractor/Personnel: Aquifer Drilling & Testing, Inc./Roger Buley, Marty Bachner (Assistant)Drilling Equip./Method: CME 550Inspector: Nathan SchaferSampling Method: 2.0' Split SpoonSize/Type of Bit: 2' L, 2.0" I, SS. SamElevation/Ground Surface: 32.38'Start/Finish Date: 4/17/12-4/17/12Depth to Groundwater (date): 2.02'Well Type: Monitoring Well

Depth (ft.)	Sample No.	Blow Count & Recovery (ft.)	PID (Bkgd/Reading)	Geologic Description	Comments:
0.0					
1.0	S-1	4-3-4-4 1.3'	0.0/0.0	Dark brown silt with fine sand; some clay; some gravel (1.5" in diameter); little roots; dry	No odors or staining.
2.0					
3.0	S-2	5-4-6-14 1.1'	0.0/0.0	Gray clay; some weathered angular shale; trace silt; moist	
4.0					
5.0	S-3	31-50/0.2 0.9'	0.0/0.0	Dark brown silt, some fine sand coarsening into gray weathered angular shale (1.5" in diameter); dry	End of Boring @ 4.7' Split Spoon Refusal @ 4.7' Begin 3 7/8" diameter air rotary roller bit at 4.7-5.5' See Core Log for MW-1S
6.0					
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Proportions: Trace = 0 - 10% Little = 10 - 20% Some = 20 - 35% And = 35 - 50%



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Page 1 of 1

Boring ID: MW-1D

Project Name/No. Troy Belting 2011-31

Location: Watervliet, NY

Drilling Contractor/Personnel: SJB Services, Inc./Tom Farrell and Jason Langdon (Assistant)

Drilling Equip./Method: CME 550

Inspector: Mark Williams

Sampling Method: 2.0' Split Spoon

Size/Type of Bit: 2' L, 2.0" I, SS. Sam

Elevation/Ground Surface: 32.48'

Start/Finish Date: 4/17/12-4/17/12

Depth to Groundwater (date): 2.02'

Well Type: Monitoring Well

Depth (ft.)	Sample No.	Blow Count & Recovery (ft.)	PID (Bkgd/Reading)	Geologic Description	Comments:
0.0 — 1.0 — 2.0 — 3.0 — 4.0 — 5.0 — 6.0 — 7.0 — 8.0 — 9.0 — 10.0 — 11.0 — 12.0 — 13.0 — 14.0 — 15.0 — 16.0 — 17.0 — 18.0 — 19.0 — 20.0 —					<p>*Roller bit auger drilled to bedrock where rock coring began.</p> <p>*No soil samples were collected for lab analysis</p> <p>*See Boring Log for MW-1S for Soil Description</p>

Proportions: Trace = 0 - 10% Little = 10 - 20% Some = 20 - 35% And = 35 - 50%

Boring ID: **MW-2S**

Project Name/No. Troy Belting 2011-31

Location: Watervliet, NY

Drilling Contractor/Personnel: Aquifer Drilling & Testing, Inc./Roger Buley, Marty Bachner (Assistant)

Drilling Equip./Method: CME 550

Inspector: Nathan Schafer

Sampling Method: 2.0' Split Spoon

Size/Type of Bit: 2' L, 2.0" I, SS. Sam

Elevation/Ground Surface: 33.26'

Start/Finish Date: 4/18/12-4/18/12

Depth to Groundwater (date): 7.17'

Well Type: Monitoring Well

Depth (ft.)	Sample No.	Blow Count & Recovery (ft.)	PID (Bkgd/Reading)	Geologic Description	Comments:
0.0				0.0-0.5' Asphalt	
1.0	S-1	5-4-3-3 1.5'	0.0/14.0	0.5-0.75' Dark gray sub-base stone; 1" in diameter 0.75-2.0 Dark brown gravel; some clay; moist	
2.0					
3.0	S-2	5-5-6-6 1.0'	0.0/17.0	Dark gray clay with brown silt; some gravel 1.5" in diameter; roots; moist	Solvent odors, no soil staining
4.0					
5.0	S-3	8-10-9-11 1.2'	0.0/55.0		
6.0					
7.0	S-4	15-29-25-50/0.4	0.0/86.0	Gray weathered shale, 1.0" in diameter	Solvent odors, no soil staining
8.0					
9.0	S-5	50/0.4, 50/0.1	0.0/64.0	Gray clay with gray weathered shale, 1.0" diameter	
10.0				End of Boring @ 8.5'	Split Spoon Refusal @ 8.5'
11.0					Begin 3 7/8" diameter air rotary roller bit at 8.5-10.5' bgs, then begin coring through shale
12.0					Sample (S-04) collected for lab analysis at 4.0-8.0'
13.0					See Core Log for MW-2S
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Proportions: Trace = 0 - 10% Little = 10 - 20% Some = 20 - 35% And = 35 - 50%



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Page 1 of 1Boring ID: **MW-3S**Project Name/No. Troy Belting 2011-31Location: Watervliet, NYDrilling Contractor/Personnel: Aquifer Drilling & Testing, Inc./Roger Buley, Marty Bachner (Assistant)Drilling Equip./Method: CME 550Inspector: Nathan SchaferSampling Method: 2.0' Split SpoonSize/Type of Bit: 2' L, 2.0" I, SS. SamElevation/Ground Surface: 32.18'Start/Finish Date: 4/19/12-4/19/12Depth to Groundwater (date): N/AWell Type: Monitoring Well

Depth (ft.)	Sample No.	Blow Count & Recovery (ft.)	PID (Bkgd/Reading)	Geologic Description	Comments:
0.0					
1.0	S-1	4-5-7-9 1.0'	0.0/0.0	Dark brown fine sand with silt; some roots; trace angular shale fragments up to 1" diameter; dry	No odors or staining.
2.0					
3.0	S-2	12-15-44-55/0.1 1.0'	0.0/0.0	Gray weathered shale; 1" in diameter; dry	
4.0					
5.0				End of Boring @ 4.0'	
6.0					Split Spoon Refusal @ 4.0'
7.0					Begin 3 7/8" diameter air rotary roller bit at 4.0-5.0'
8.0					
9.0					See Core Log for MW-3S
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Proportions: Trace = 0 - 10% Little = 10 - 20% Some = 20 - 35% And = 35 - 50%

Boring ID: MW-4S

Project Name/No. <u>Troy Belting 2011-31</u>	Location: <u>Watervliet, NY</u>
Drilling Contractor/Personnel: <u>Aquifer Drilling & Testing, Inc./Roger Buley, Marty Bachner (Assistant)</u>	
Drilling Equip./Method: <u>CME 550</u>	Inspector: <u>Nathan Schafer</u>
Sampling Method: <u>2.0' Split Spoon</u>	Size/Type of Bit: <u>2' L, 2.0" I, SS. Sam</u>
Elevation/Ground Surface: <u>30.82'</u>	Start/Finish Date: <u>12/11/12-12/11/1</u>
Depth to Groundwater (date): <u>5.52'</u>	Well Type: <u>Monitoring Well</u>

Depth (ft.)	Sample No.	Blow Count & Recovery (ft.)	PID (Bkgd/Reading)	Geologic Description	Comments:
0.0					
1.0	S-1	6-7-12-7 1.0'	0.0/0.6	Dark brown silt and fine sand; some gravel; trace roots; moist	No odors or soil staining
2.0					
3.0	S-2	4-5-5-5 0.5'	0.0/0.0	Dark brown fine sand and some gravel; trace angular shale fragments up to 1" diameter; moist	
4.0					
5.0	S-3	50/5 No Recovery	0.0/0.0		
6.0				End of Boring @ 5.5'	Split Spoon Refusal @ 5.5'
7.0					Begin 3 7/8" diameter air rotary roller bit at 5.5-18.0' bgs (Black Shale)
8.0					See Core Log for MW-4S
9.0					
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Proportions: Trace = 0 - 10% Little = 10 - 20% Some = 20 - 35% And = 35 - 50%



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Page 1 of 1

Boring ID: **MW-4D**

Project Name/No. Troy Belting 2011-31

Location: Watervliet, NY

Drilling Contractor/Personnel: SJB Drilling Services / Tom Farrell, Jason Langden (Assistant)

Drilling Equip./Method: CME 550

Inspector: Mark Williams

Sampling Method: 2.0' Split Spoon

Size/Type of Bit: 2' L, 2.0" I, SS. Sam

Elevation/Ground Surface: 30.62'

Start/Finish Date: 12/10/12-12/11/1

Depth to Groundwater (date): N/A

Well Type: Monitoring Well

Depth (ft.)	Sample No.	Blow Count & Recovery (ft.)	PID (Bkgd/Reading)	Geologic Description	Comments:
0.0					
1.0					
2.0					
3.0					
4.0					
5.0					
6.0					
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

*Roller bit auger drilled to bedrock where rock coring began.
*No soil samples were collected for lab analysis
*See Boring Log for MW-4S for Soil Description

Proportions: Trace = 0 - 10% Little = 10 - 20% Some = 20 - 35% And = 35 - 50%

Boring ID: MW-5S

Project Name/No. <u>Troy Belting 2011-31</u>	Location: <u>Watervliet, NY</u>
Drilling Contractor/Personnel: <u>Aquifer Drilling & Testing, Inc./Roger Buley, Marty Bachner (Assistant)</u>	
Drilling Equip./Method: <u>CME 550</u>	Inspector: <u>Nathan Schafer</u>
Sampling Method: <u>2.0' Split Spoon</u>	Size/Type of Bit: <u>2' L, 2.0" I, SS. Sam</u>
Elevation/Ground Surface: <u>33.69'</u>	Start/Finish Date: <u>12/11/12-12/11/1</u>
Depth to Groundwater (date): <u>N/A</u>	Well Type: <u>Monitoring Well</u>

Depth (ft.)	Sample No.	Blow Count & Recovery (ft.)	PID (Bkgd/Reading)	Geologic Description	Comments:
0.0					
1.0	S-1	6-6-6-6 15"	0.4/0.4	Dark brown silt and clay; some gravel; trace roots; moist	Solvent Odor 2.0'-5.5'
2.0					
3.0	S-2	4-5-5-5 9.0"	0.1/246.0	Gray silt and clay; trace roots; moist	
4.0					
5.0	S-3	5-50/4 10"	0.4/225.0		
6.0				End of Boring @ 5.5'	Split Spoon Refusal @ 5.5'
7.0					Begin 3 7/8" diameter air rotary roller bit at 5.5-18.0' bgs (Black Shale)
8.0					See Core Log for MW-5S
9.0					
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Proportions: Trace = 0 - 10% Little = 10 - 20% Some = 20 - 35% And = 35 - 50%

Boring ID: MW-6S

Project Name/No. <u>Troy Belting 2011-31</u>	Location: <u>Watervliet, NY</u>
Drilling Contractor/Personnel: <u>SJB Drilling Services / Tom Farrell, Jason Langden (Assistant)</u>	
Drilling Equip./Method: <u>CME 550</u>	Inspector: <u>Mark Williams</u>
Sampling Method: <u>2.0' Split Spoon</u>	Size/Type of Bit: <u>2' L, 2.0" I, SS. Sam</u>
Elevation/Ground Surface: <u>29.99'</u>	Start/Finish Date: <u>12/11/12-12/11/1</u>
Depth to Groundwater (date): <u>N/A</u>	Well Type: <u>Monitoring Well</u>

Depth (ft.)	Sample No.	Blow Count & Recovery (ft.)	PID (Bkgd/Reading)	Geologic Description	Comments:
0.0					
1.0	S-1	1-2-1-2 1.0'	0.4/0.4	Dark brown silt and clay; some gravel; trace roots; moist	No odors or staining
2.0					
3.0	S-2	1-3-2-1 1.5'	0.1/246.0	Gray silt and clay; trace roots; moist	No odors or staining
4.0					
5.0				End of Boring @ 4.0'	Split Spoon Refusal @ 4.0'
6.0					Begin 3 7/8" diameter air rotary roller bit at 4.0-5.0' bgs then rock coring 5.0-21.50' bgs(Black Shale) See Core Log for MW-5S
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Proportions: Trace = 0 - 10% Little = 10 - 20% Some = 20 - 35% And = 35 - 50%

Boring ID: MW-6D

Project Name/No. Troy Belting 2011-31 Location: Watervliet, NY
 Drilling Contractor/Personnel: SJB Drilling Services / Tom Farrell, Jason Langden (Assistant)
 Drilling Equip./Method: CME 550 Inspector: Mark Williams
 Sampling Method: 2.0' Split Spoon Size/Type of Bit: 2' L, 2.0" I, SS. Sam
 Elevation/Ground Surface: 29.92' Start/Finish Date: 12/11/12-12/11/1
 Depth to Groundwater (date): N/A Well Type: Monitoring Well

Depth (ft.)	Sample No.	Blow Count & Recovery (ft.)	PID (Bkgd/Reading)	Geologic Description	Comments:
0.0					
1.0					
2.0					
3.0					
4.0					
5.0					
6.0					
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

*Roller bit auger drilled to bedrock where rock coring began.
 *No soil samples were collected for lab analysis
 *See Boring Log for MW-6D' for Soil Description

Boring ID: **MW-6D'**

Project Name/No. Troy Belting 2011-31 Location: Watervliet, NY
 Drilling Contractor/Personnel: SJB Drilling Services / TomFarrell, Jason Langden (Assistant)
 Drilling Equip./Method: CME 550 Inspector: Joseph Spaulding
 Sampling Method: 2.0' Split Spoon Size/Type of Bit: 2' L, 2.0" I, SS. Sam
 Elevation/Ground Surface: 29.80 Start/Finish Date: 9/8/15-9/18/15
 Depth to Groundwater (date): N/A Well Type: Monitoring Well

Depth (ft.)	Sample No.	Blow Count & Recovery (ft.)	PID (Bkgd/Reading)	Geologic Description	Comments:
0.0				0.0-0.5' Asphalt	
1.0	S-1	1-2-1-1 0.8'	0.0/0.0	Dark Brown Silt with some Clay; some Gravel and Black Shale Fragments; loose; moist. Black Shale fragments at 4.0' bgs Gray, weathered shale	No odors or staining
2.0					
3.0	S-2	1-1-1-1 1.0'	0.0/0.1		
4.0					
5.0	S-3	50/0.3 0.3'	0.0/1.0		
6.0				End of Boring @ 6.0'	
7.0					Split Spoon Refusal @ 5.8'
8.0					Auger Refusal @ 6.0
9.0					
10.0					Begin roller bit augering at 6.0-55.0' bgs (Black Shale)
11.0					See Core Log for MW-6D'
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Proportions: Trace = 0 - 10% Little = 10 - 20% Some = 20 - 35% And = 35 - 50%

Boring ID: MW-7S

Project Name/No. Troy Belting 2011-31

Location: Watervliet, NY

Drilling Contractor/Personnel: SJB Drilling Services / TomFarrell, Stew Brodell (Assistant)

Drilling Equip./Method: CME 550 Rig

Inspector: Joseph Spaulding

Sampling Method: Split Spoon Auger

Size/Type of Bit: 2' L, 2.0" ID SS Sampler

Elevation/Ground Surface: 29.85

Start/Finish Date: 9/14/2015

Depth to Groundwater (date): N/A

Well Type: 2" Monitoring Well

Depth (ft.)	Sample No.	Blow Count & Recovery (ft.)	PID (Bkgd/Reading)	Geologic Description	Comments:
0.0				0.0-0.5' Asphalt	
1.0	S-1	15-3-2 1.25'	0.0/0.0	Dark Brown to Black Clayey Silt; Trace Fine Gravel; moist; loose.	No odors or staining
2.0					
3.0	S-2	1-4-2-5 1.15'	0.0/0.1	Dark Brown to Brown Clayey Silt with some Fine to Medium Gravel; brick pieces; (fill); moist; loose.	
4.0					S.S. refusal at 4.2' bgs Auger refusal at 5.2' bgs Begin roller bit augering of 5.2'-20.8' bgs (Black Shale) See Core Log for MW-7S
5.0	S-3	50/0.2 -0.1'	0.0/0.0		
6.0				End of Boring @ 5.2'	
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Boring ID: **MW-7D**

Project Name/No. Troy Belting 2011-31

Location: Watervliet, NY

Drilling Contractor/Personnel: SJB Drilling Services/ TomFarrell, Stew Brodell (Assistant)

Drilling Equip./Method: CME 550 Rig

Inspector: Joseph Spaulding

Sampling Method: 2.0' Split Spoon Sampler 2" ID

Size/Type of Bit: 2' L, 2.0" ID SS

Elevation/Ground Surface: 29.88

Start/Finish Date: 9-15-15/9-17-15

Depth to Groundwater (date): N/A

Well Type: 2" PVC

Depth (ft.)	Sample No.	Blow Count & Recovery (ft.)	PID (Bkgd/Reading)	Geologic Description	Comments:
0.0				0.0-0.5' Asphalt	
1.0	S-1	1-2-1-4 0.3'	0.0/0/0	Black to Dark Brown Clayey Silt with some Medium to Fine Gravel; slightly moist; loose.	No odors or staining
2.0					
3.0	S-2	1-4-5-7 0.4'	0.0/0.1		
4.0					
5.0	S-3	50/0.1 ≤0.1'	0.0/0.0		
6.0				End of Boring @ 4.8'	SS refusal @ 4.1' bgs
7.0					Auger refusal @ 4-8' bgs
8.0					Begin roller bit augering of 4.8'-40.5' bgs (Black Shale)
9.0					See Core Log for MW-7D
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Boring ID: MW-8S

Project Name/No. <u>Troy Belting 2011-31</u>	Location: <u>Watervliet, NY</u>
Drilling Contractor/Personnel: <u>SJB Drilling Services / TomFarrell, Jason Langdon (Assistant)</u>	
Drilling Equip./Method: <u>CME 550</u>	Inspector: <u>Mark Williams</u>
Sampling Method: <u>2.0' Split Spoon</u>	Size/Type of Bit: <u>2' L, 2.0" I, SS. Sam</u>
Elevation/Ground Surface: <u>30.38'</u>	Start/Finish Date: <u>12/11/12-12/11/1</u>
Depth to Groundwater (date): <u>N/A</u>	Well Type: <u>Monitoring Well</u>

Depth (ft.)	Sample No.	Blow Count & Recovery (ft.)	PID (Bkgd/Reading)	Geologic Description	Comments:
0.0					
1.0	S-1	6-6-6-6 15"	0.0/0.0	Dark brown silt and clay; some gravel; trace roots; moist	No solvent odors or soil staining
2.0					
3.0	S-2	4-5-5-5 9.0"	0.0/0.0	Gray silt and clay; trace roots; moist	
4.0	S-3	50/0.3	0.0/0.0	Grey weathered shale; trace silt and clay; moist	Split Spoon Refusal @ 4.3' Begin 3 7/8" diameter air rotary roller bit at 4.3-18.0' bgs (Black Shale) See Core Log for MW-8S
5.0				End of Boring @ 4.3'	
6.0					
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Proportions: Trace = 0 - 10% Little = 10 - 20% Some = 20 - 35% And = 35 - 50%



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Page 1 of 1

Boring ID: MW-8D

Project Name/No. Troy Belting 2011-31

Location: Watervliet, NY

Drilling Contractor/Personnel: SJB Drilling Services / Tom Farrell, Jason Langdon (Assistant)

Drilling Equip./Method: CME 550

Inspector: Mark Williams

Sampling Method: 2.0' Split Spoon

Size/Type of Bit: 2' L, 2.0" I, SS. Sam

Elevation/Ground Surface: 30.56'

Start/Finish Date: 12/11/12-12/11/1

Depth to Groundwater (date): N/A

Well Type: Monitoring Well

Depth (ft.)	Sample No.	Blow Count & Recovery (ft.)	PID (Bkgd/Reading)	Geologic Description	Comments:
0.0					
1.0					
2.0					
3.0					
4.0					
5.0					
6.0					
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

*Roller bit auger drilled to bedrock where rock coring began.
*No soil samples were collected for lab analysis
*See Boring Log for MW-8S for Soil Description

Proportions: Trace = 0 - 10% Little = 10 - 20% Some = 20 - 35% And = 35 - 50%



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Page 1 of 1

Boring ID: **MW-9S**

Project Name/No. Troy Belting 2011-31

Location: Watervliet, NY

Drilling Contractor/Personnel: SJB Drilling Services / Tom Farrell, Jason Langden (Assistant)

Drilling Equip./Method: CME 550

Inspector: Mark Williams

Sampling Method: 2.0' Split Spoon

Size/Type of Bit: 2' L, 2.0" I, SS. Sam

Elevation/Ground Surface: 32.13'

Start/Finish Date: 12/11/12-12/11/1

Depth to Groundwater (date): N/A

Well Type: Monitoring Well

Depth (ft.)	Sample No.	Blow Count & Recovery (ft.)	PID (Bkgd/Reading)	Geologic Description	Comments:
0.0					
1.0					*No boring log recorded, Roller bit auger drilled to top of bedrock at 7.5' bgs *No VOC headspace measurements, no soil samples collected for laboratory analysis
2.0					
3.0					
4.0					
5.0					
6.0					
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Proportions: Trace = 0 - 10% Little = 10 - 20% Some = 20 - 35% And = 35 - 50%

Boring ID: MW-10D

Project Name/No. <u>Troy Belting 2011-31</u>	Location: <u>Watervliet, NY</u>
Drilling Contractor/Personnel: <u>SJB Drilling Services / TomFarrell, Stew Brodell (Assistant)</u>	
Drilling Equip./Method: <u>CME 550 Auger</u>	Inspector: <u>Joseph Spaulding</u>
Sampling Method: <u>Split Spoon Auger</u>	Size/Type of Bit: <u>2' L, 2.0" ID SS Sampler</u>
Elevation/Ground Surface: <u>33.18</u>	Start/Finish Date: <u>9/10/2015</u>
Depth to Groundwater (date): <u>N/A</u>	Well Type: <u>2" Monitoring Well</u>

Depth (ft.)	Sample No.	Recovery (ft.)	PID (Bkgd/Reading)	Geologic Description	Comments:
0.0				0.0-0.5' Asphalt	
1.0	S-1	6-16-27-35 1.0'	0.0/0.2	1.0'-1.5': Light Brown Silty Sand with some Fine Gravel; Dry; Loose 1.5'-2.0': Black weathered Shale fragments; Dry; Loose	No odors or staining
3.0	S-2	38-50/0.3 0.3	0.0/0.4	Black weathered Shale fragments; dry; loose.	
4.0				End Boring @ 4.0'	
5.0					SS refusal @ ~3.3' bgs
6.0					Auger refusal @ 4.0' bgs
7.0					Begin roller bit augering at 4.0'-40.5' bgs (Black Shale)
8.0					
9.0					See Core Log for MW-10D
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Proportions: Trace = 0 - 10% Little = 10 - 20% Some = 20 - 35% And = 35 - 50%



Sterling Environmental Engineering, P.C.

Page 1 of 1**Boring ID:** **MW-11S**Project Name/No. Troy Belting 2011-31Location: Watervliet, NYDrilling Contractor/Personnel: SJB Drilling Services / TomFarrell, Stew Brodell (Assistant)Drilling Equip./Method: CME 550 RigInspector: Joseph SpauldingSampling Method: Split Spoon AugerSize/Type of Bit: 2' L, 2.0" ID SS SamplerElevation/Ground Surface: 35.30'Start/Finish Date: 11-9-15/11-9-15Depth to Groundwater (date): N/AWell Type: 2" Monitoring Well

Depth (ft.)	Sample No.	Blow Count & Recovery (ft.)	PID (Bkgd/Reading)	Geologic Description	Comments:
0.0				0.0-0.5' Asphalt	
1.0	S-1	2-3-5-8 0.5'	0.0/0.0	Brown to Dark Brown Clayey Silt; little fine sand; little fine to medium gravel; dry; loose to medium dense.	No odors or staining
2.0					
3.0	S-2	4-4-12-15 1.5'	0.0/0.0		
4.0					
5.0	S-3	13-18-15-50/0.3 1.8'	0.0/0.0	Dark Brown Clayey Silt; little fine sand; little fine to medium gravel; 0.25" pieces of black shale; dry; medium dense to loose.	Split Spoon refusal at 5.8' and auger refusal at 6.0' Begin Coring Black Shale at 6.0'-21.0' See Core Log for MW-11S
6.0					
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Proportions: Trace = 0 - 10% Little = 10 - 20% Some = 20 - 35% And = 35 - 50%

CORE LOG

Boring No. MW-1S

Project Name:	<u>Troy Belting – Additional Environmental Investigation</u>	Project No.:	<u>2011-31</u>
Client Name:	<u>Nixon Peabody, LLP</u>	Date:	<u>4/17/2012</u>
Location:	<u>70 Cohoes Road, Watervliet, NY 12189</u>	Logged By:	<u>NJS</u>
Weather/Temp.:	<u>Sunny, Breezy, 60°F</u>	Checked By:	<u>EMD</u>

Drilling Co.:	<u>SJB Services, Inc.</u>	Depth:	<u>19' (from grade)</u> <u>CME 550 – 4 1/4"</u>
Driller:	<u>Tom Farrell, Jason Langden (Assistant)</u>	Equipment:	<u>OD H.S. Auger</u>
Date Started:	<u>4/17/2012</u>	Surface Elev.:	<u>32.38'</u>
Date Completed:	<u>4/17/2012</u>	Core Dia.:	<u>2.5"</u>

Depth (ft.)	DESCRIPTIVE LOG (rock type, color, grain size, texture, bedding, minerals, remarks)	Run No.	Core Rec. Run Length	% Recovery	RQD
5	5.5-6' gray, weathered SHALE	1	0.3/0.5	60	0
6					
7		2	3/3	100	61
8					
9					
10	6-19' gray, fractured SHALE	3	0.5/0.5	100	0
11		4	4.5/5	90	69
12					
13					
14					
15		5	4.9/5	98	41
16					
17					
18					
19					
	End of boring = 19'				

CORE LOG

Boring No. MW-2S

Project Name:	<u>Troy Belting – Additional Environmental Investigation</u>	Project No.:	<u>2011-31</u>
Client Name:	<u>Nixon Peabody, LLP</u>	Date:	<u>4/18/2012</u>
Location:	<u>70 Cohoes Road, Watervliet, NY 12189</u>	Logged By:	<u>NJS</u>
Weather/Temp.:	<u>Overcast, Breezy, 37°F</u>	Checked By:	<u>EMD</u>

Drilling Co.:	<u>SJB Services, Inc.</u>	Depth:	<u>20' (from grade)</u> <u>CME 550 – 4 1/4"</u>
Driller:	<u>Tom Farrell, Jason Langden (Assistant)</u>	Equipment:	<u>OD H.S. Auger</u>
Date Started:	<u>4/18/2012</u>	Surface Elev.:	<u>33.29'</u>
Date Completed:	<u>4/18/2012</u>	Core Dia.:	<u>2.5"</u>

Depth (ft.)	DESCRIPTIVE LOG (rock type, color, grain size, texture, bedding, minerals, remarks)	Run No.	Core Rec. Run Length	% Recovery	RQD
10	8.5-20.0' gray, fractured SHALE	1	0.6/1	60	86
11					
12					
13		2	4.8/5	96	87
14					
15					
16					
17					
18		3	4/4	100	56
19					
20	End of boring = 20.0'				

CORE LOG

Boring No. MW-3S

Project Name:	<u>Troy Belting – Additional Environmental Investigation</u>	Project No.:	<u>2011-31</u>
Client Name:	<u>Nixon Peabody, LLP</u>	Date:	<u>4/19/2012</u>
Location:	<u>70 Cohoes Road, Watervliet, NY 12189</u>	Logged By:	<u>NJS</u>
Weather/Temp.:	<u>Overcast, Breezy, 35°F</u>	Checked By:	<u>EMD</u>

Drilling Co.:	<u>SJB Services, Inc.</u>	Depth:	<u>17' (from grade)</u> <u>CME 550 – 4 1/4"</u>
Driller:	<u>Tom Farrell, Jason Langden (Assistant)</u>	Equipment:	<u>OD H.S. Auger</u>
Date Started:	<u>4/19/2012</u>	Surface Elev.:	<u>32.18'</u>
Date Completed:	<u>4/19/2012</u>	Core Dia.:	<u>2.5"</u>

Depth (ft.)	DESCRIPTIVE LOG (rock type, color, grain size, texture, bedding, minerals, remarks)	Run No.	Core Rec. Run Length	% Recovery	RQD
5	5-17' gray, fractured SHALE	1	3/4	65	0
6					
7					
8					
9					
10		2	4.2/5	84	38
11					
12					
13					
14					
15	End of boring = 17'	3	3.5/3	117	83
16					
17					

CORE LOG

Boring No. MW-4S

Project Name:	<u>Troy Belting – Additional Environmental Investigation</u>	Project No.:	<u>2011-31</u>
Client Name:	<u>Nixon Peabody, LLP</u>	Date:	<u>4/19/2012</u>
Location:	<u>70 Cohoes Road, Watervliet, NY 12189</u>	Logged By:	<u>NJS</u>
Weather/Temp.:	<u>Overcast, Breezy, 35°F</u>	Checked By:	<u>EMD</u>

Drilling Co.:	<u>SJB Services, Inc.</u>	Depth:	<u>17' (from grade)</u> <u>CME 550 – 4 1/4"</u>
Driller:	<u>Tom Farrell, Jason Langden (Assistant)</u>	Equipment:	<u>OD H.S. Auger</u>
Date Started:	<u>4/19/2012</u>	Surface Elev.:	<u>30.18'</u>
Date Completed:	<u>4/19/2012</u>	Core Dia.:	<u>2.5"</u>

Depth (ft.)	DESCRIPTIVE LOG (rock type, color, grain size, texture, bedding, minerals, remarks)	Run No.	Core Rec. Run Length	% Recovery	RQD
5	5.5'-17' gray, fractured SHALE	1	3/4	65	0
6					
7					
8					
9					
10		2	4.2/5	84	38
11					
12					
13					
14					
15	End of boring = 18'	3	3.5/3	117	83
16					
17					

CORE LOG

Boring No. MW-5S

Project Name:	<u>Troy Belting – Additional Environmental Investigation</u>	Project No.:	<u>2011-31</u>
Client Name:	<u>Nixon Peabody, LLP</u>	Date:	<u>4/18/2012</u>
Location:	<u>70 Cohoes Road, Watervliet, NY 12189</u>	Logged By:	<u>NJS</u>
Weather/Temp.:	<u>Overcast, Breezy, 37°F</u>	Checked By:	<u>EMD</u>

Drilling Co.:	<u>SJB Services, Inc.</u>	Depth:	<u>20' (from grade)</u> <u>CME 550 – 4 1/4"</u>
Driller:	<u>Tom Farrell, Jason Langden (Assistant)</u>	Equipment:	<u>OD H.S. Auger</u>
Date Started:	<u>4/18/2012</u>	Surface Elev.:	<u>33.69'</u>
Date Completed:	<u>4/18/2012</u>	Core Dia.:	<u>2.5"</u>

Depth (ft.)	DESCRIPTIVE LOG (rock type, color, grain size, texture, bedding, minerals, remarks)	Run No.	Core Rec. Run Length	% Recovery	RQD
10	5.5-18.5' gray, fractured SHALE	1	1/1	100	86
11					
12					
13		2	4.8/5	96	50
14					
15					
16					
17					
18		3	4/4	100	75
19					
20	End of boring = 18.5'				

Boring No. MW-6D'

Project No.:	<u>2011-31</u>
Date:	<u>9-18-15</u>
Logged By:	<u>Joseph Spaulding</u>
Checked By:	<u>Mark Williams</u>

Depth:	70' (from grade)
Equipment:	CME 550 – 4¼"
Surface Elev.:	N/A
Core Dia.:	2.5"

[illegible]

CORE LOG

Boring No. MW-7S

Project Name:	<u>Troy Belting and Supply Company</u>	Project No.:	<u>2011-31</u>
Client Name:	<u>Nixon Peabody, LLP</u>	Date:	<u>9-14-15</u>
Location:	<u>70 Cohoes Road, Cohoes, NY</u>	Logged By:	<u>Joseph Spaulding</u>
Weather/Temp.:	<u>Overcase, Breezy, 65° F</u>	Checked By:	<u>Mark Williams</u>

Drilling Co.:	<u>SJB Services</u>	Depth:	<u>20.8' (from grade)</u>
Driller:	<u>Tom Farrell and Stew Brodell (Assistant)</u>	Equipment:	<u>CME 550 – 4¼” O.D. HS Auger</u>
Date Started:	<u>9-14-15</u>	Surface Elev.:	<u>N/A</u>
Date Completed:	<u>9-14-15</u>	Core Dia.:	<u>2.5”</u>

Formation	Depth	DESCRIPTIVE LOG (rock type, color, grain size, texture, bedding, minerals, remarks)	Run No.	Run Length / Core Rec. (ft.)	% Recovery	RQD
Normanskill Shale	6	6'-9': SHALE, Dark Gray to Black; highly fractured; evidence of brown iron staining (water movement+); no VOC headspace, no odors	1	3.0 / 3.0	100%	0% VPoor
	7					
	8					
	9	9'-10.5': SHALE; Dark Gray to Black; highly fractured; high angle fractures; iron staining in fractures; no VOC headspace 10.5'-11': SHALE; Dark Gray to Black; highly fractured; high angle fractures; iron staining in fracture zones	2	1.5 / 1.2	80%	0% VPoor
	10					
	11					
	12	11'-16': SHALE, Dark Gray to Black; highly fractured; lower angle fractures; no VOC headspace, no odors	4	5.0 / 4.8	96%	55% Fair
	13					
	14					
	15					
	16	16'-16.5': SHALE; Dark Gray to Black; highly fractured; mid-angle fractures; no VOC headspace, no odors 16.5'-20.8': Dark Gray to Black; less *very poor RQD (no pieces 4.0" or over); no VOC headspace, no odors	5	1.0 / 0.8	80%	33% Poor
	17					
	18					
	19					
	20					
		End Core @ 20.8'				

Boring No. MW-8S

Project No.:	<u>2011-31</u>
Date:	<u>12-11-14</u>
Logged By:	<u>Joseph Spaulding</u>
Checked By:	<u>Mark Williams</u>

Depth:	<u>20.8' (from grade)</u>
Equipment:	<u>CME 550 – 4¼"</u>
Surface Elev.:	<u>N/A</u>
Core Dia.:	<u>2.5"</u>

[illegible]

CORE LOG

Boring No. MW-9S

Project Name:	<u>Troy Belting and Supply Company</u>	Project No.:	<u>2011-31</u>
Client Name:	<u>Nixon Peabody, LLP</u>	Date:	<u>12-10-14</u>
Location:	<u>70 Cohoes Road, Cohoes, NY</u>	Logged By:	<u>Joseph Spaulding</u>
Weather/Temp.:	<u>Overcase, Breezy, 65° F</u>	Checked By:	<u>Mark Williams</u>

Drilling Co.:	<u>SJB Services</u>	Depth:	<u>20.8' (from grade)</u>
Driller:	<u>Tom Farrell and Stew Brodell (Assistant)</u>	Equipment:	<u>CME 550 – 4¼” O.D. HS Auger</u>
Date Started:	<u>9-14-15</u>	Surface Elev.:	<u>N/A</u>
Date Completed:	<u>9-14-15</u>	Core Dia.:	<u>2.5”</u>

Formation	Depth	DESCRIPTIVE LOG (rock type, color, grain size, texture, bedding, minerals, remarks)	Run No.	Run Length / Core Rec. (ft.)	% Recovery	RQD
Normanskill Shale	7.5	7.5'-10.5': SHALE, Dark Gray to Black; highly fractured; low to moderate angle fractures; no VOC headspace, no odors	1	3.0 / 3.0	100%	42% Poor
	8.5					
	9.5					
	10.5					
	11	10.5'-15.0': SHALE, Dark Gray to Black; highly fractured; lower angle fractures; no VOC headspace, no odors	2	5.0 / 4.8	96%	55% Fair
	12					
	13					
	14					
	15	15'-20.5': SHALE; Dark Gray to Black; highly fractured; mid-angle fractures; no VOC headspace, no odors	3	5.0 / 4.0	80%	75% Good
	16					
	17					
	18					
	19					
	20					
		End Core @ 20.5'				

Boring No. MW-11S

Project No.:	<u>2011-31</u>
Date:	<u>11-9-15</u>
Logged By:	<u>Joseph Spaulding</u>
Checked By:	<u>Mark Williams</u>

Depth:	21.0' (from grade)
Equipment:	CME 550 – 4¼”
Surface Elev.:	O.D. HS Auger
Core Dia.:	29.85
	2.5”

[illegible]

Bedrock Core Photograph Log



Photograph 1: Bedrock core of MW-6D' starting at 55.0' below ground surface in top left of photograph.



Photograph 2: Bedrock core of MW-6D' ending at 65.5' below ground surface in bottom right of photograph.



Photograph 3: Bedrock core of MW-6D' starting at 65.5' below ground surface in top left of photograph. Bottom of core also present at 70.5' below ground surface.



Photograph 4: Bedrock core of MW-6D' ending at 70.5' below ground surface in middle left of photograph.



Photograph 5: Bedrock core of MW-7S starting at 6.0' below ground surface in top left of the photograph.



Photograph 6: Bedrock core of MW-7S ending at 16.5' below ground surface in bottom of photograph.



Photograph 7: Bedrock core of MW-7S starting at 16.5' below ground surface in top left of the photograph. End of bedrock core is also shown at 21.5' below ground surface.



Photograph 8: Bedrock core of MW-7S at 17.0'-19.0' below ground surface.



Photograph 9: Bedrock core of MW-7D starting at 25.5' below ground surface in top left of photograph.



Photograph 10: Bedrock core of MW-7D ending at 35.5' below ground surface in top left of photograph.



Photograph 11: Bedrock core of MW-7D at 35.5' – 40.5' below ground surface.



Photograph 12: Bedrock core of MW-10D starting at 25.5' below ground surface in top left of photograph.



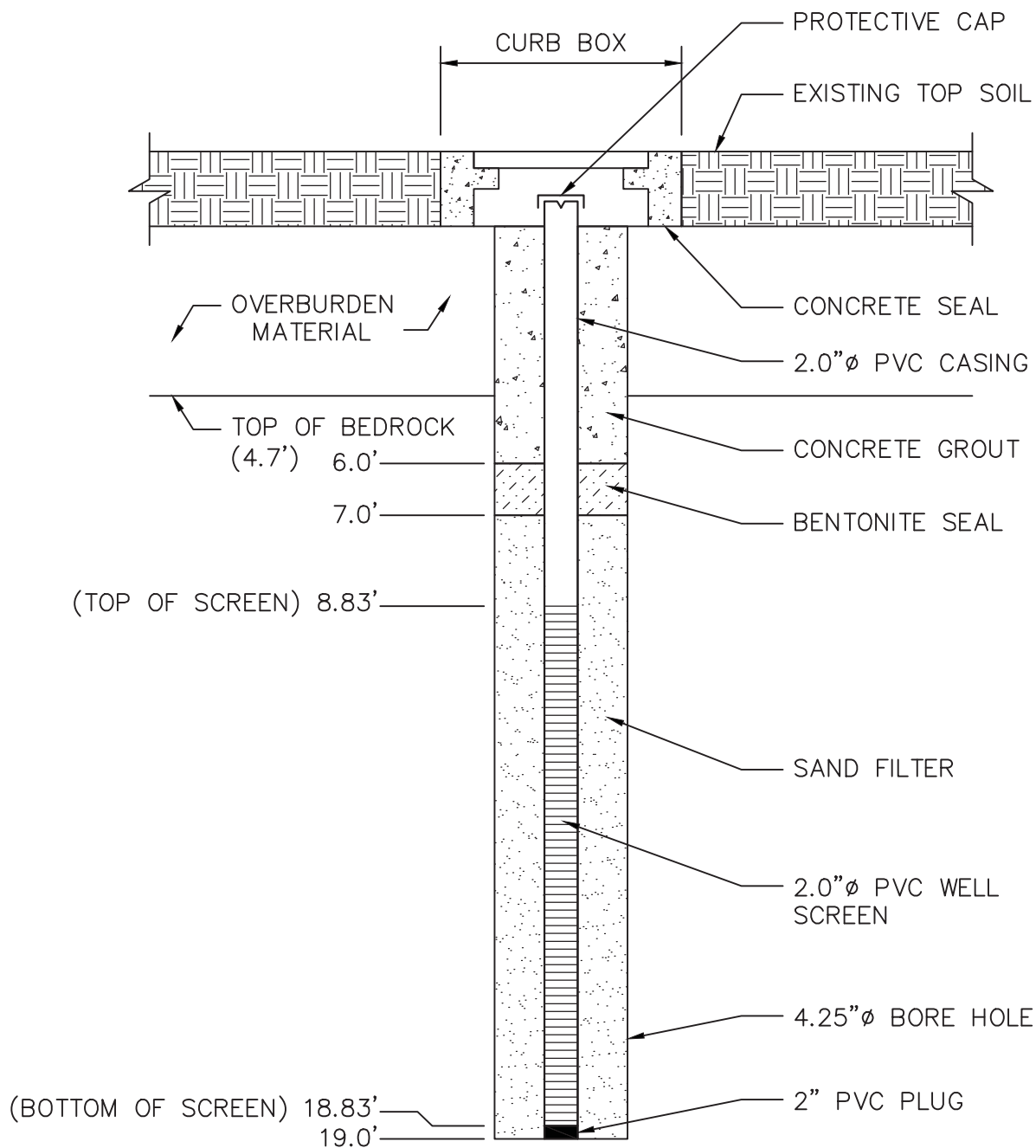
Photograph 13: Bedrock core of MW-10D ending at 35.5' below ground surface in bottom right of photograph.



Photograph 14: Bedrock core of MW-10D at 35.5' – 40.5' below ground surface.

APPENDIX E

MONITORING WELL CONSTRUCTION FORMS



STERLING

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24 Wade Road ♦ Latham, New York 12110

WELL COMPLETION DETAILS FOR MW-1S
TROY BELTING & SUPPLY CO.
 70 COHOES ROAD
 ONSITE MONITORING WELL INSTALLATION

TOWN OF COLONIE

ALBANY CO., N.Y.

PROJ. No.: 2011-31

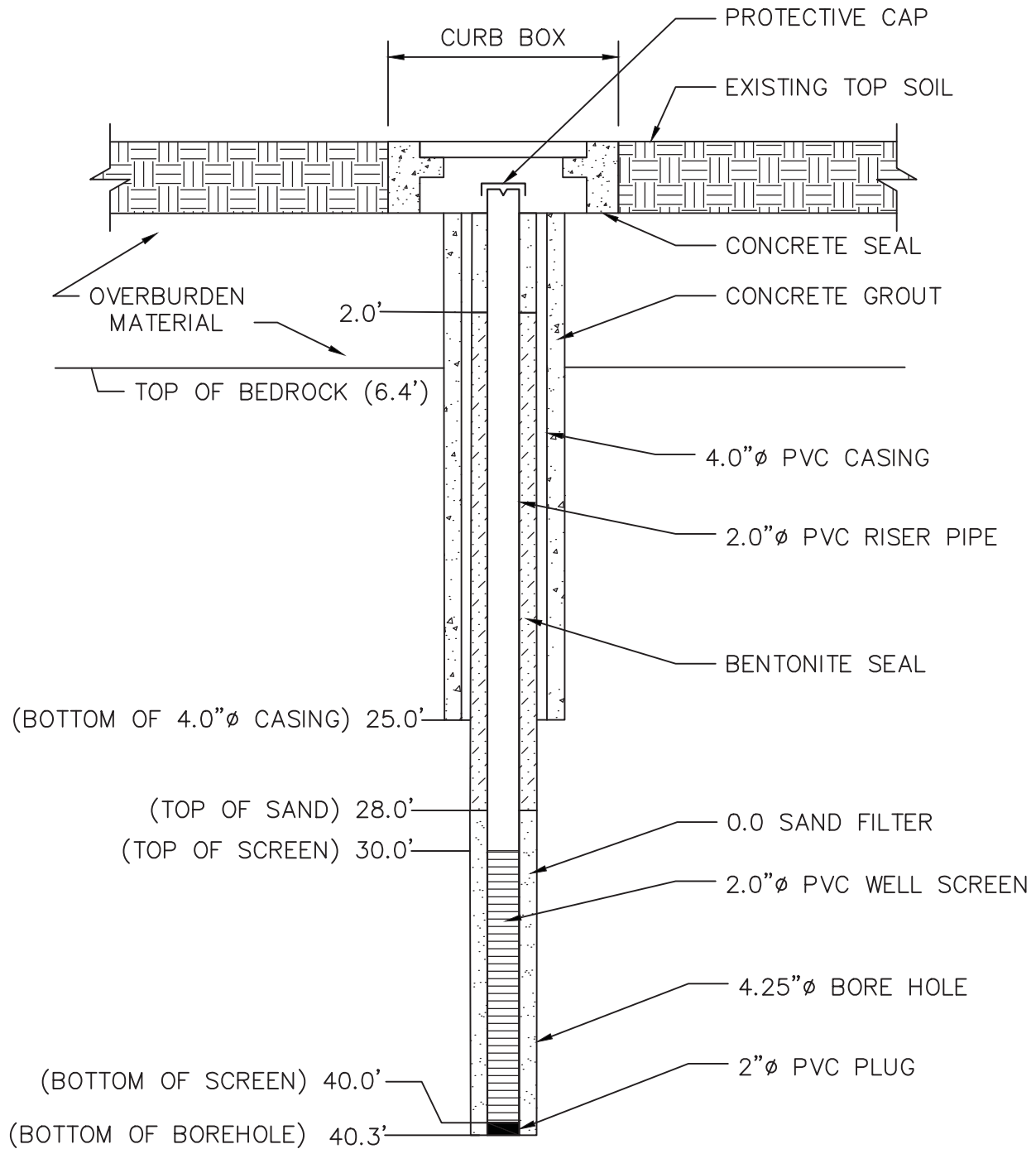
DATE:

4/27/12

SCALE:

N.T.S.

DWG. NO. 2011-31002



NOTE:

Ø=DIAMETER

STERLING

Sterling Environmental Engineering, P.C.

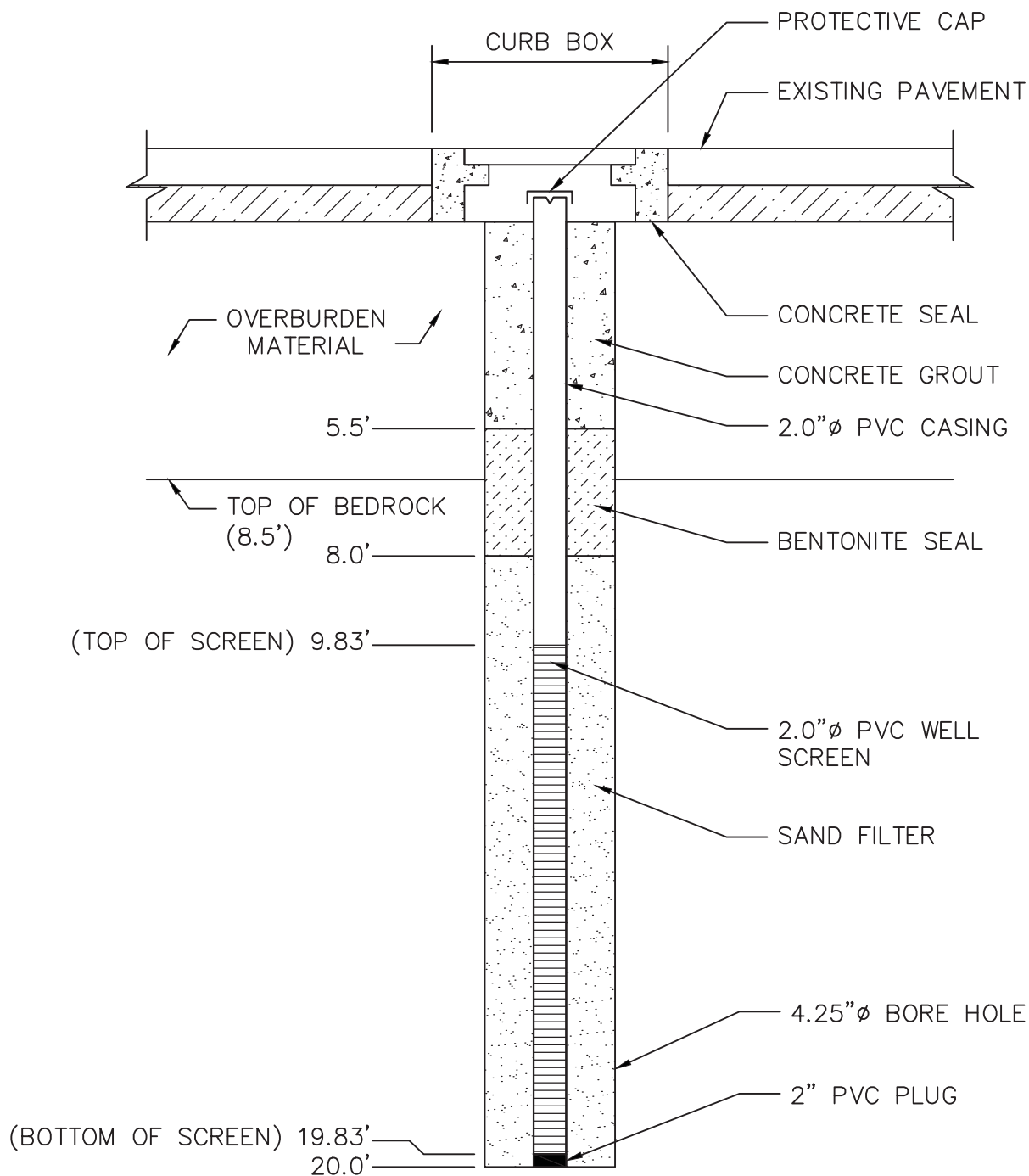
24 Wade Road ♦ Latham, New York 12110

WELL COMPLETION DETAILS FOR MW-1D
TROY BELTING & SUPPLY CO.
 70 COHOES ROAD
 ONSITE MONITORING WELL INSTALLATION

TOWN OF WATERVLIET

ALBANY CO., N.Y.

PROJ. No.: 2011-31 | DATE: 9/16/15 | SCALE: N.T.S. | DWG. NO. 2011-31004



STERLING

Sterling Environmental Engineering, P.C.

24 Wade Road ♦ Latham, New York 12110

WELL COMPLETION DETAILS FOR MW-2S
TROY BELTING & SUPPLY CO.
 70 COHOES ROAD
 ONSITE MONITORING WELL INSTALLATION

TOWN OF COLONIE

ALBANY CO., N.Y.

PROJ. No.: 2011-31

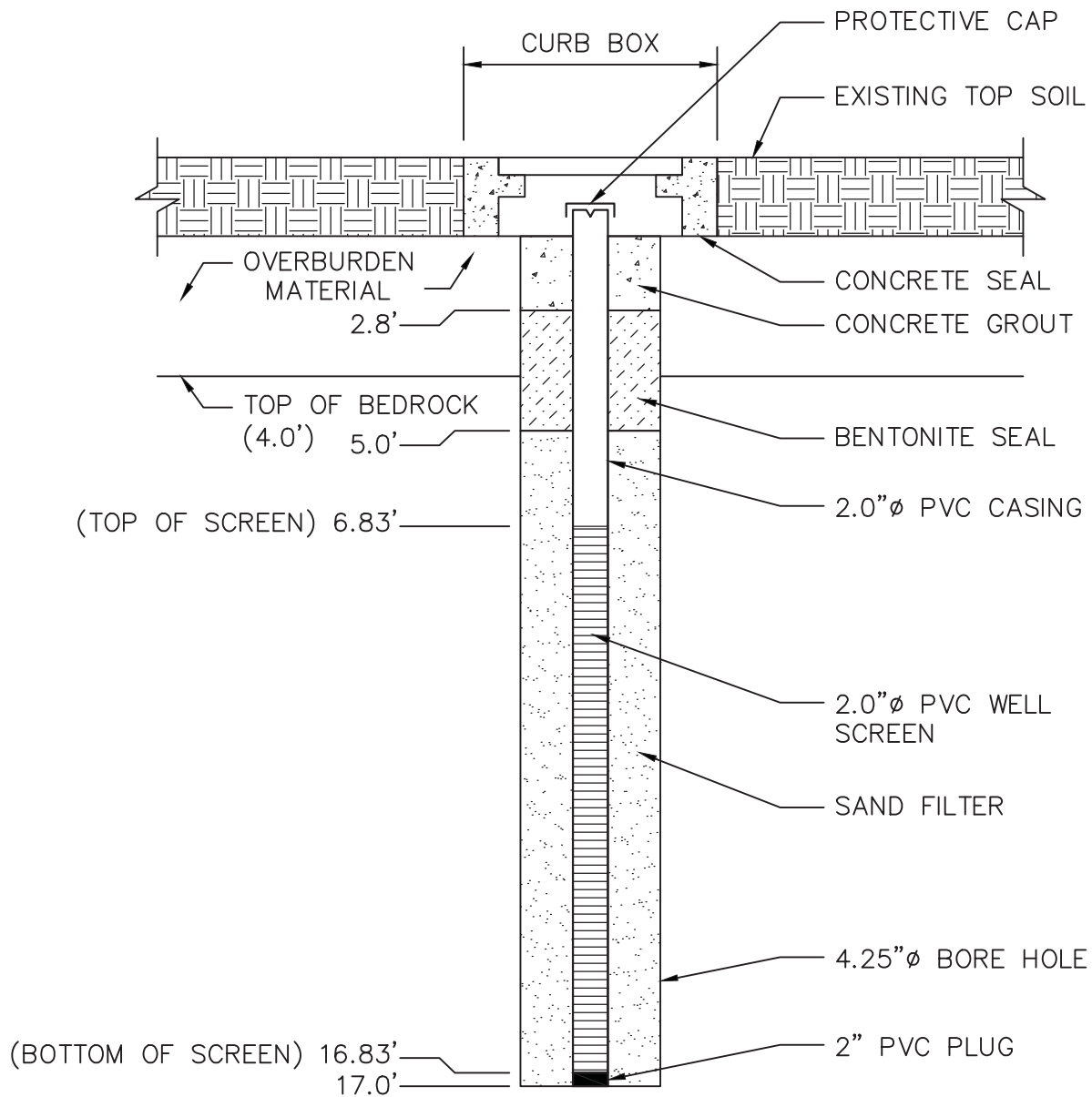
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4/27/12

SCALE:

N.T.S.

DWG. NO. 2011-31003



STERLING

Sterling Environmental Engineering, P.C.

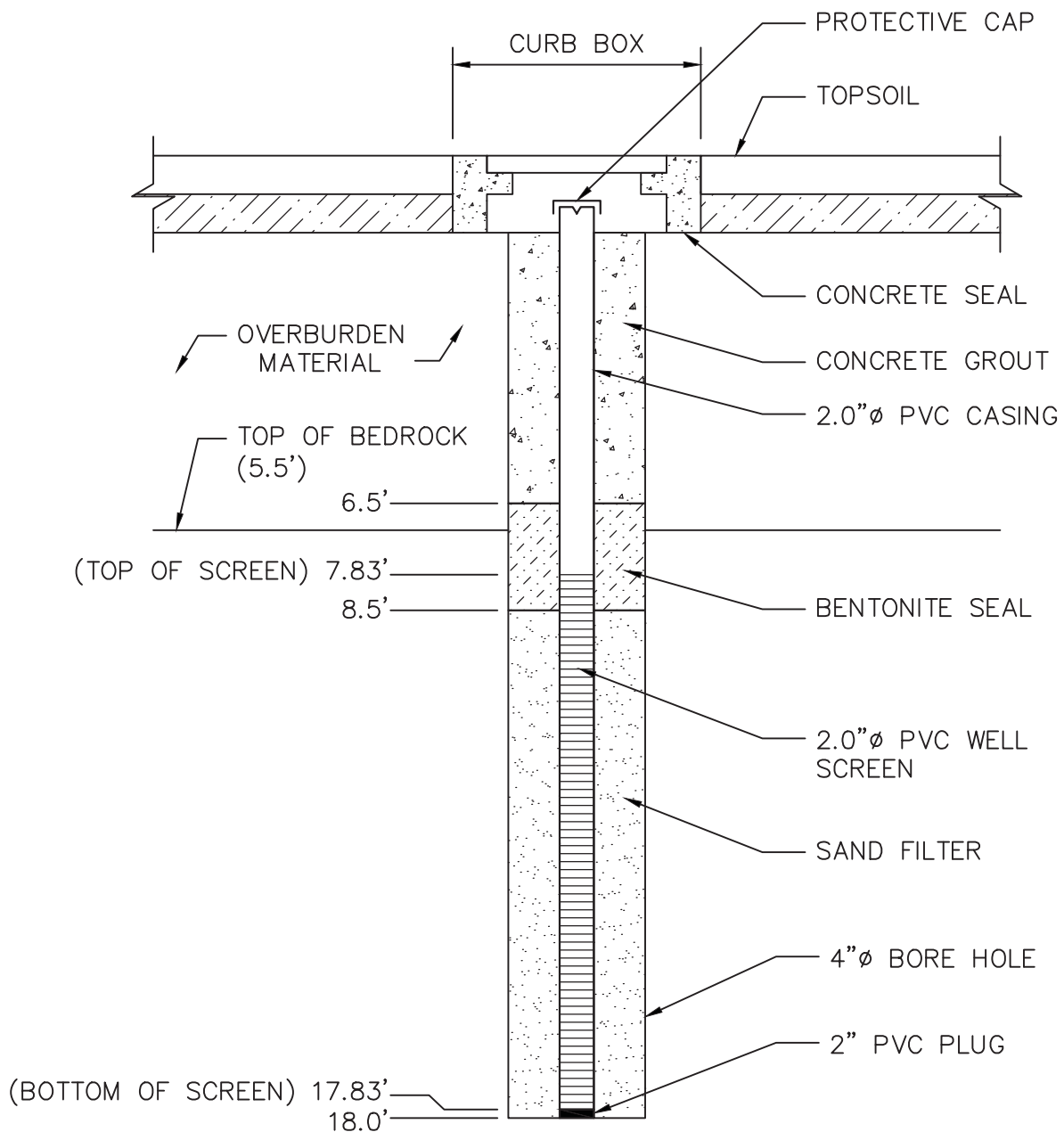
24 Wade Road ♦ Latham, New York 12110

WELL COMPLETION DETAILS FOR MW-3S
TROY BELTING & SUPPLY CO.
 70 COHOES ROAD
 ONSITE MONITORING WELL INSTALLATION

TOWN OF COLONIE

ALBANY CO., N.Y.

PROJ. No.: 2011-31 | DATE: 4/27/12 | SCALE: N.T.S. | DWG. NO. 2011-31004



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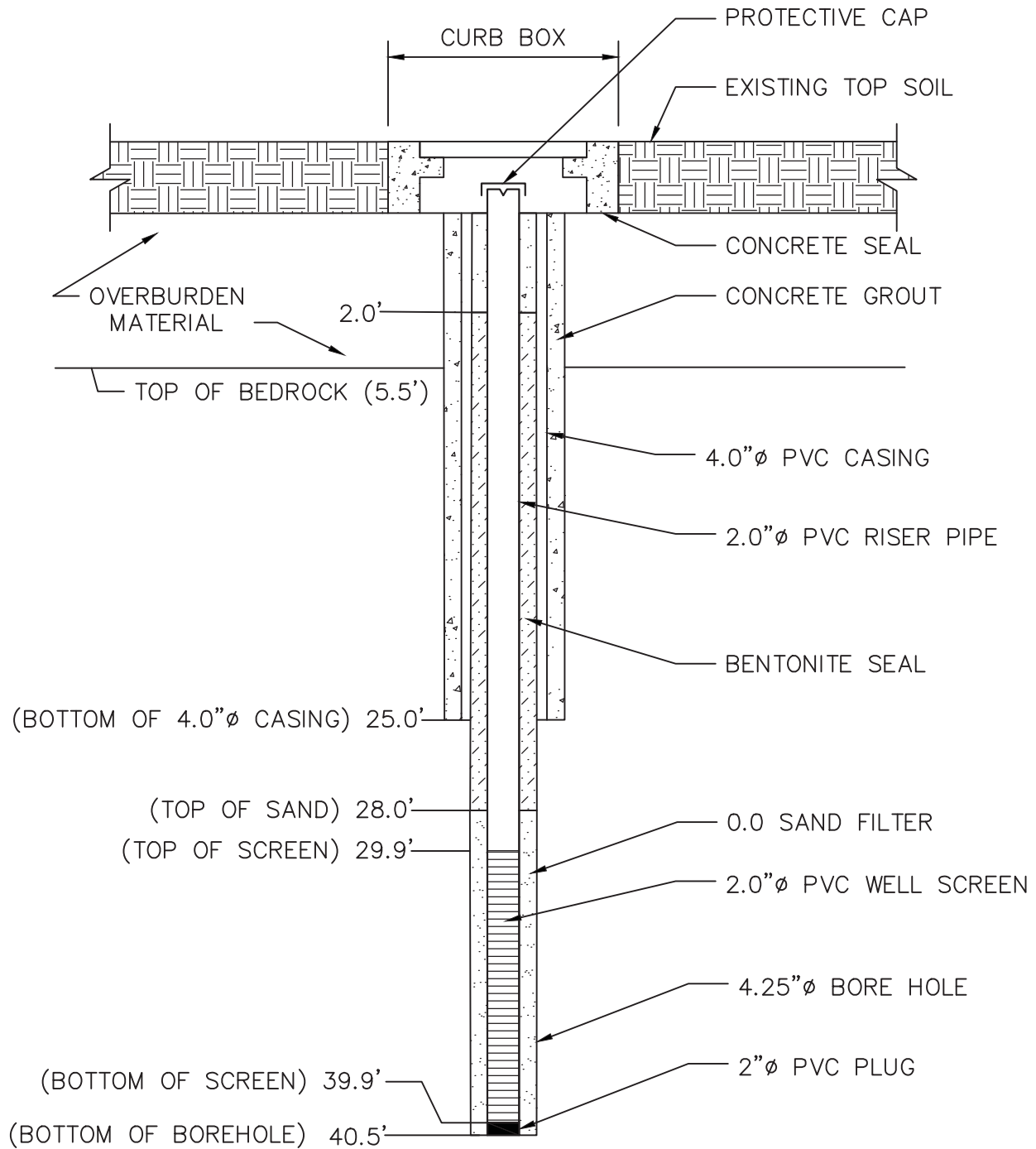
24 Wade Road ♦ Latham, New York 12110

WELL CONSTRUCTION DETAILS FOR MW-4S
ONSITE MONITORING WELL INSTALLATION
TROY BELTING & SUPPLY CO.
70 COHOES ROAD

TOWN OF COLONIE

ALBANY CO., N.Y.

PROJ. No.: 2011-31 | DATE: 1/2/13 | SCALE: N.T.S. | DWG. NO. 2011-31009



NOTE:

Ø=DIAMETER

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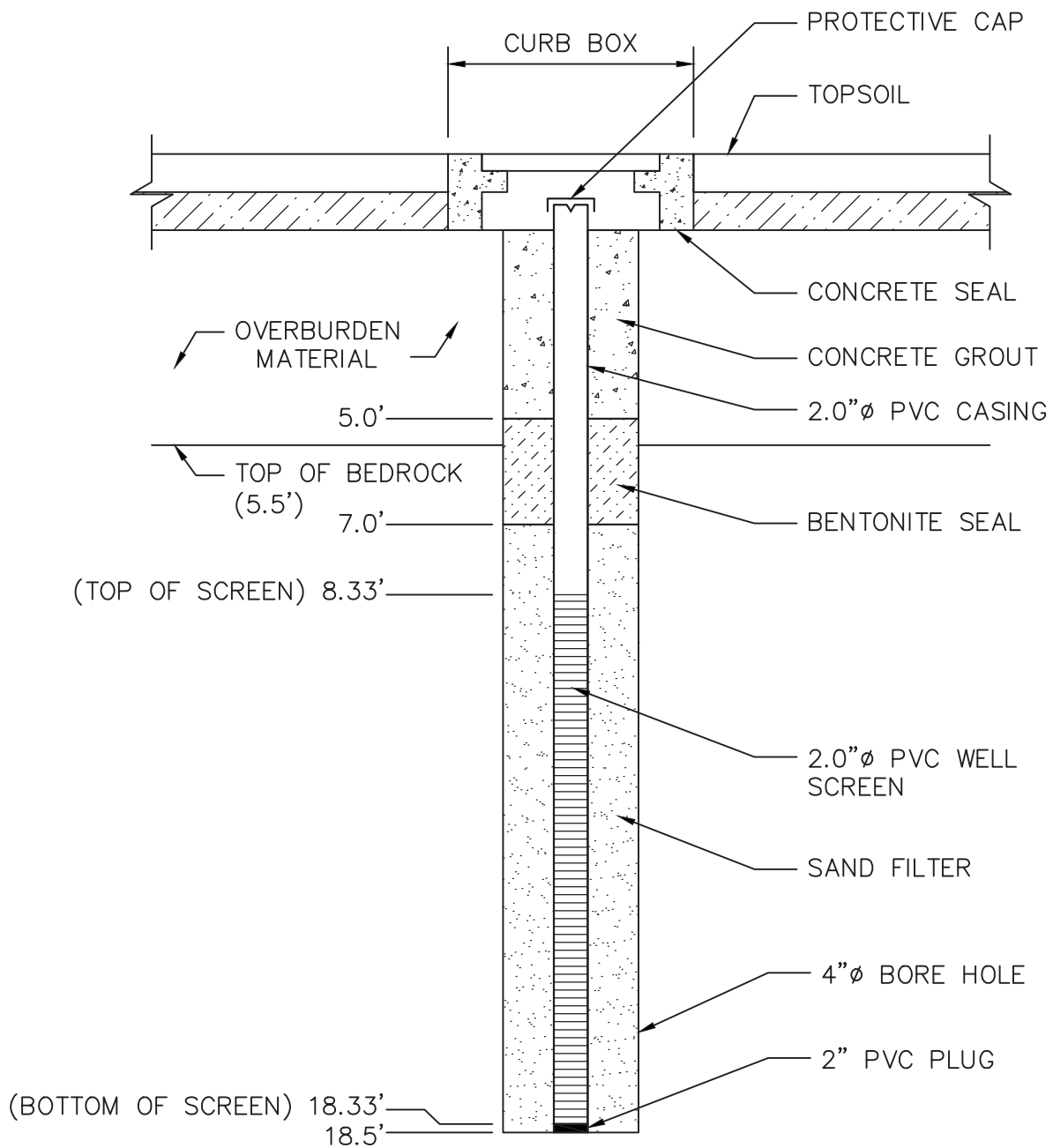
24 Wade Road ♦ Latham, New York 12110

WELL COMPLETION DETAILS FOR MW-4D
TROY BELTING & SUPPLY CO.
 70 COHOES ROAD
 ONSITE MONITORING WELL INSTALLATION

TOWN OF WATERVLIET

ALBANY CO., N.Y.

PROJ. No.: 2011-31 | DATE: 9/16/15 | SCALE: N.T.S. | DWG. NO. 2011-31004



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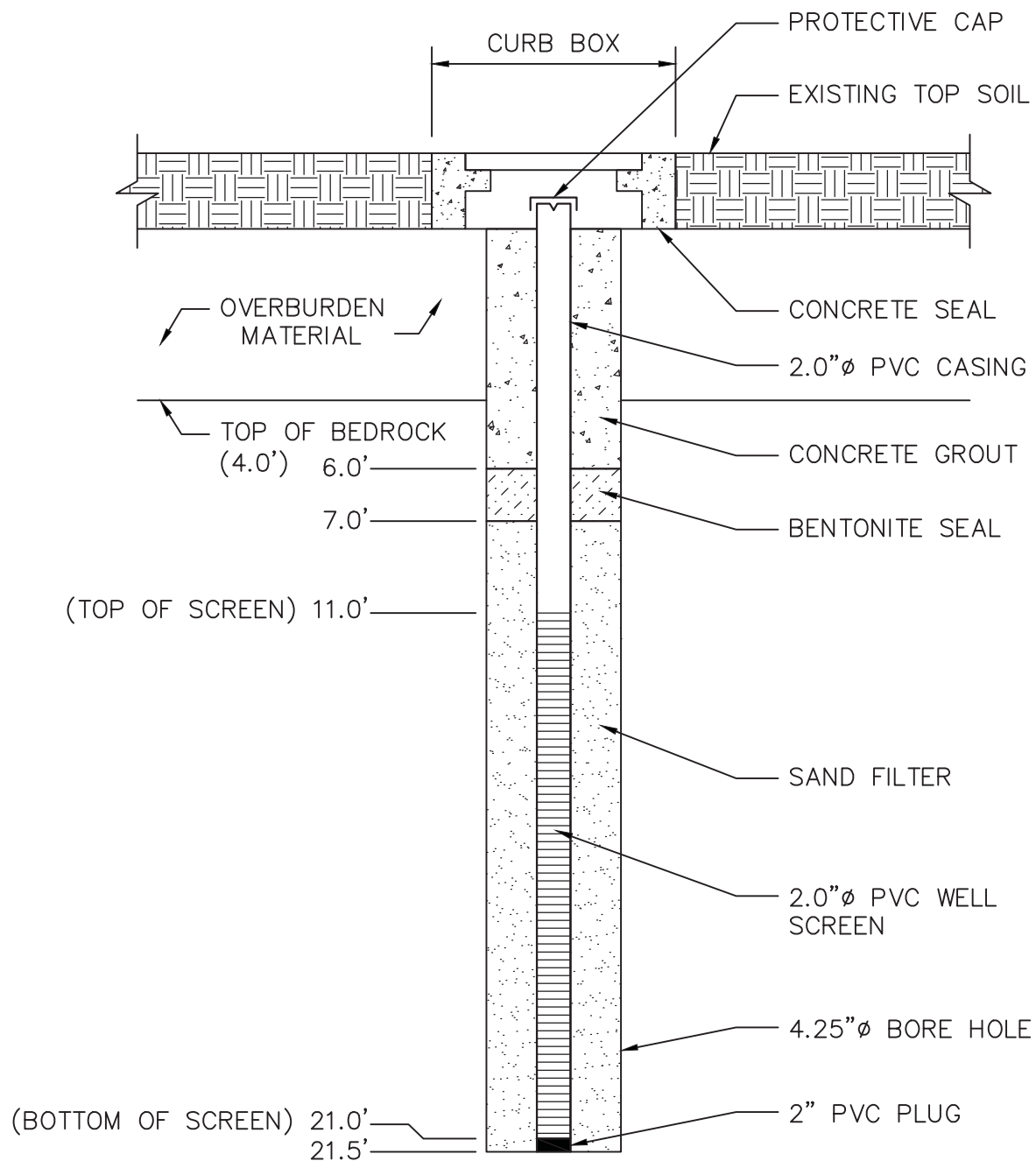
24 Wade Road ♦ Latham, New York 12110

WELL CONSTRUCTION DETAILS FOR MW-5S
ONSITE MONITORING WELL INSTALLATION
TROY BELTING & SUPPLY CO.
70 COHOES ROAD

TOWN OF COLONIE

ALBANY CO., N.Y.

PROJ. No.: 2011-31 | DATE: 1/2/13 | SCALE: N.T.S. | DWG. NO. 2011-31010



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WELL COMPLETION DETAILS FOR MW-6S
TROY BELTING & SUPPLY CO.
 70 COHOES ROAD
 ONSITE MONITORING WELL INSTALLATION

TOWN OF COLONIE

ALBANY CO., N.Y.

PROJ. No.: 2011-31

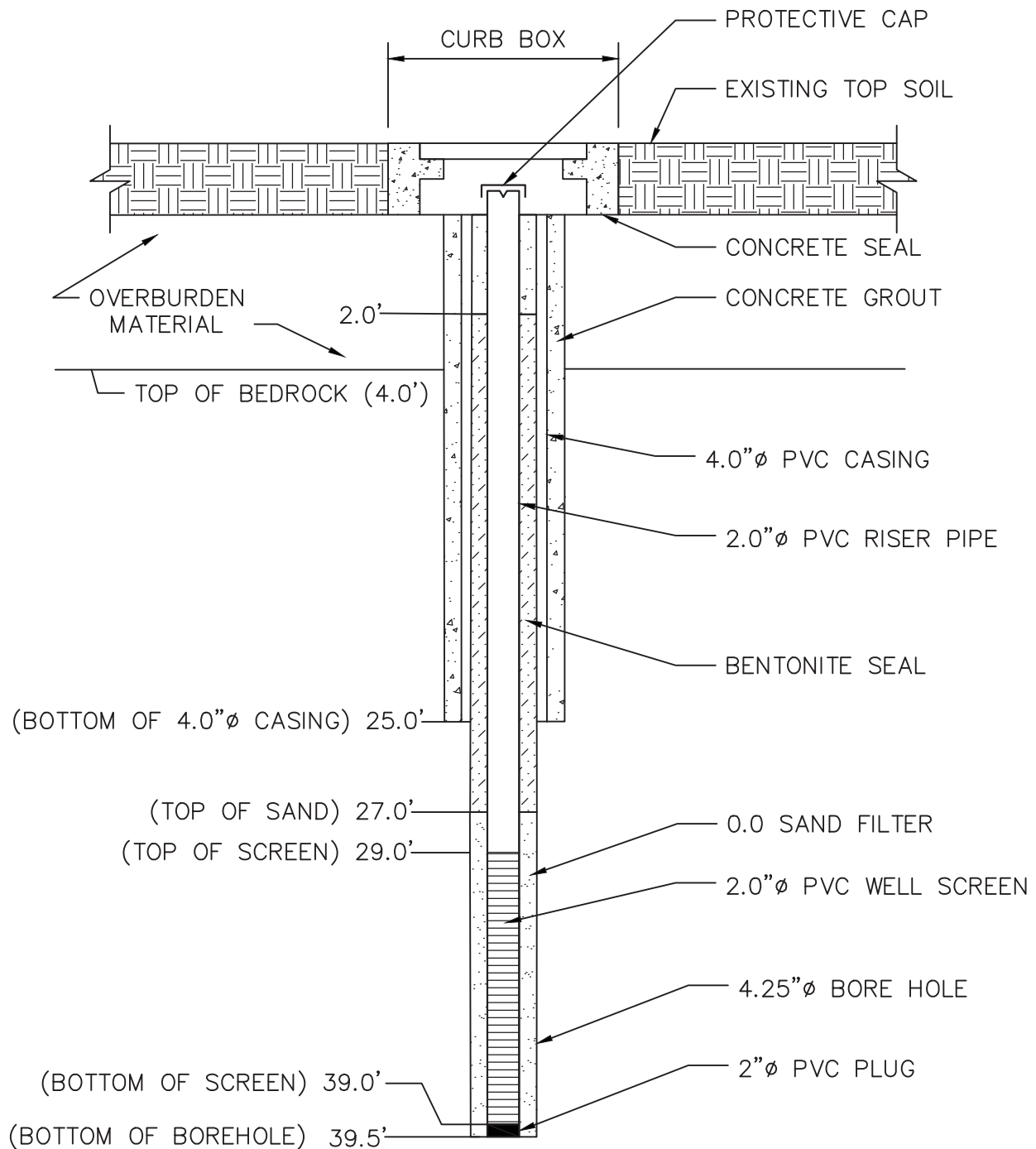
DATE:

4/27/12

SCALE:

N.T.S.

DWG. NO. 2011-31002



NOTE:

Ø=DIAMETER

STERLING

Sterling Environmental Engineering, P.C.

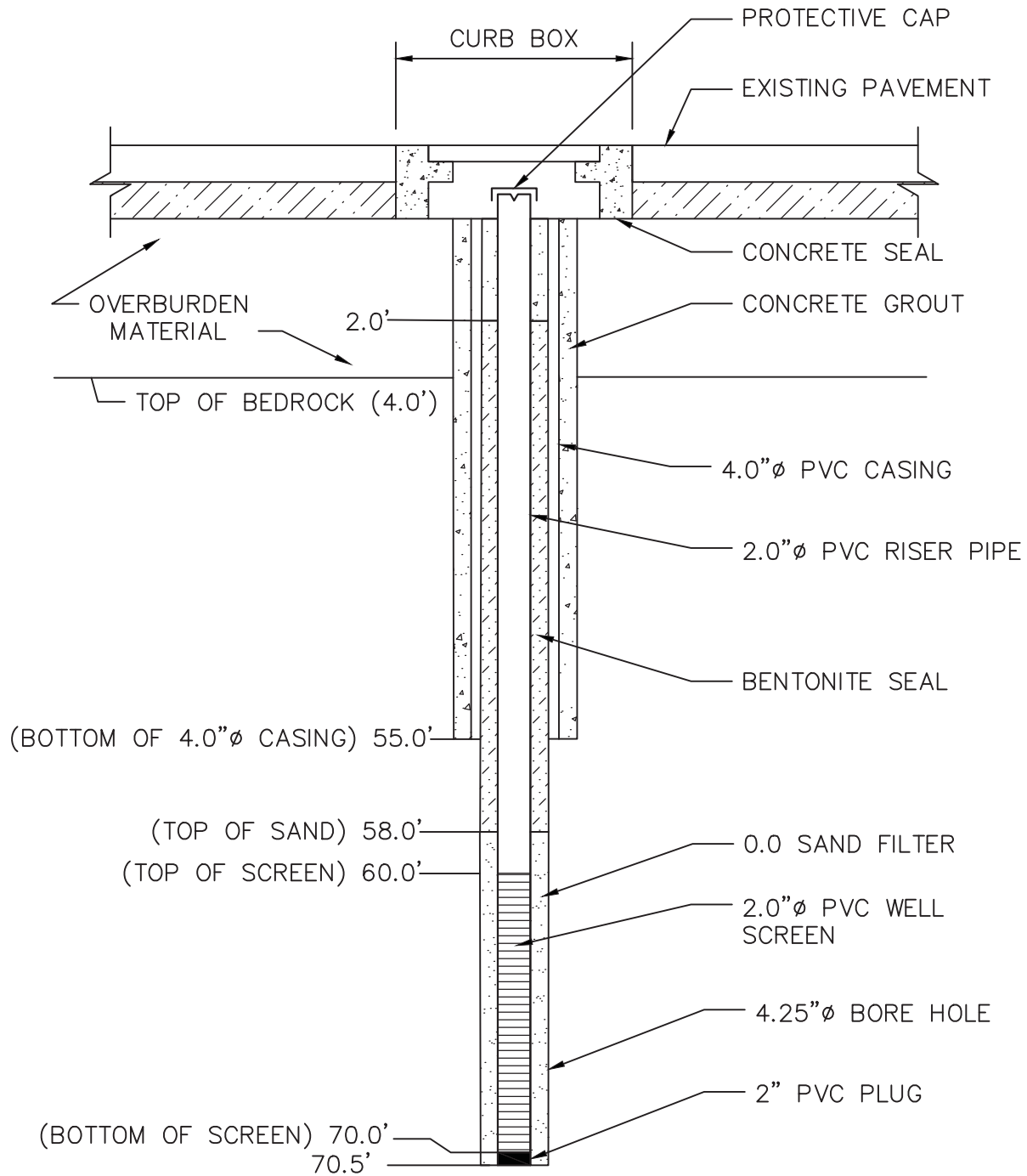
24 Wade Road ♦ Latham, New York 12110

WELL COMPLETION DETAILS FOR MW-6D
TROY BELTING & SUPPLY CO.
70 COHOES ROAD
ONSITE MONITORING WELL INSTALLATION

TOWN OF WATERVLIET

ALBANY CO., N.Y.

PROJ. No.: 2011-31 | DATE: 9/16/15 | SCALE: N.T.S. | DWG. NO. 2011-31004



NOTE:

Ø=DIAMETER

STERLING

Sterling Environmental Engineering, P.C.

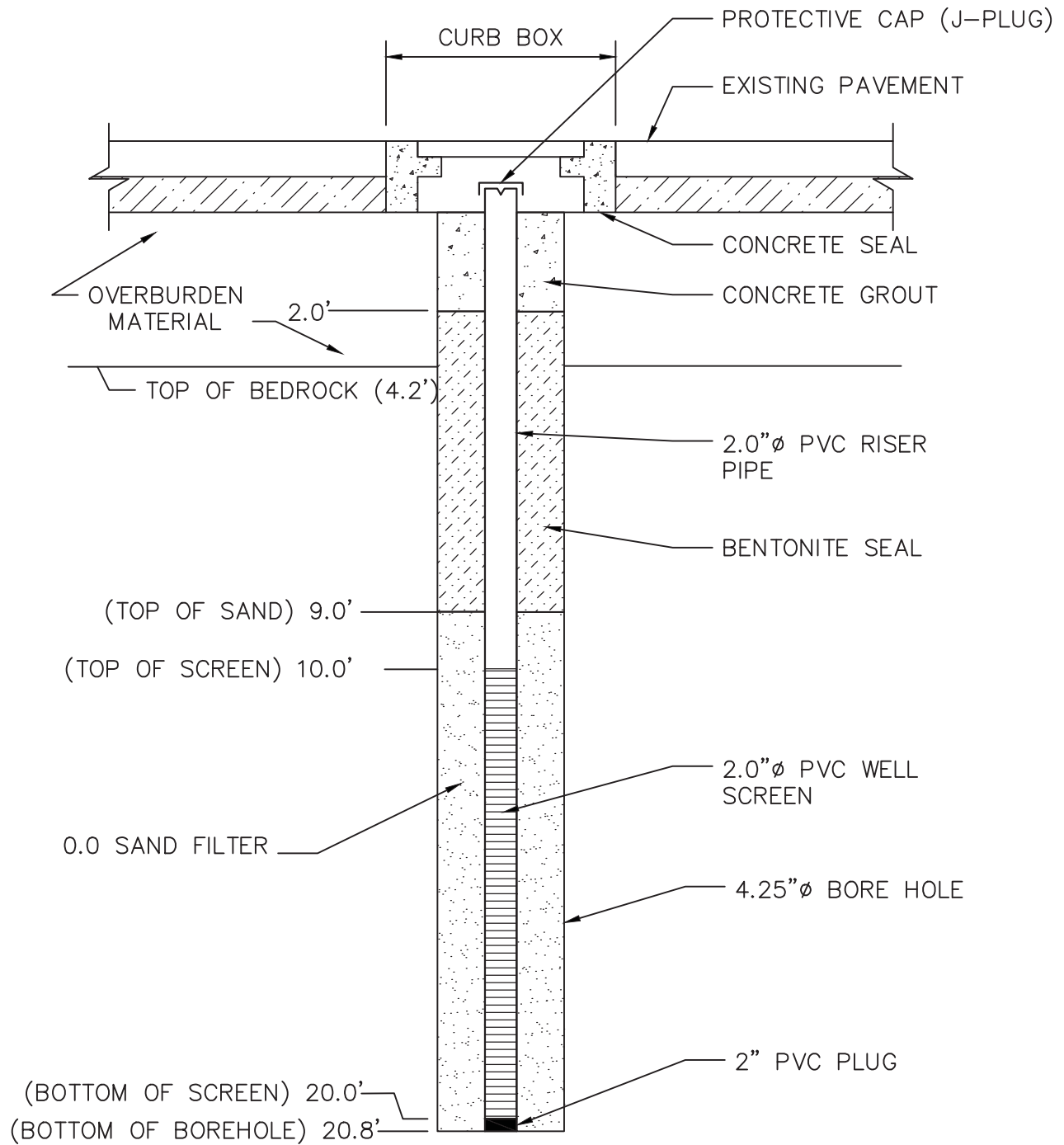
24 Wade Road ♦ Latham, New York 12110

WELL COMPLETION DETAILS FOR MW-6D'
TROY BELTING & SUPPLY CO.
 70 COHOES ROAD
 ONSITE MONITORING WELL INSTALLATION

TOWN OF WATERVLIET

ALBANY CO., N.Y.

PROJ. No.: 2011-31 | DATE: 9/18/15 | SCALE: N.T.S. | DWG. NO. 2011-31001



NOTE:

Ø = DIAMETER

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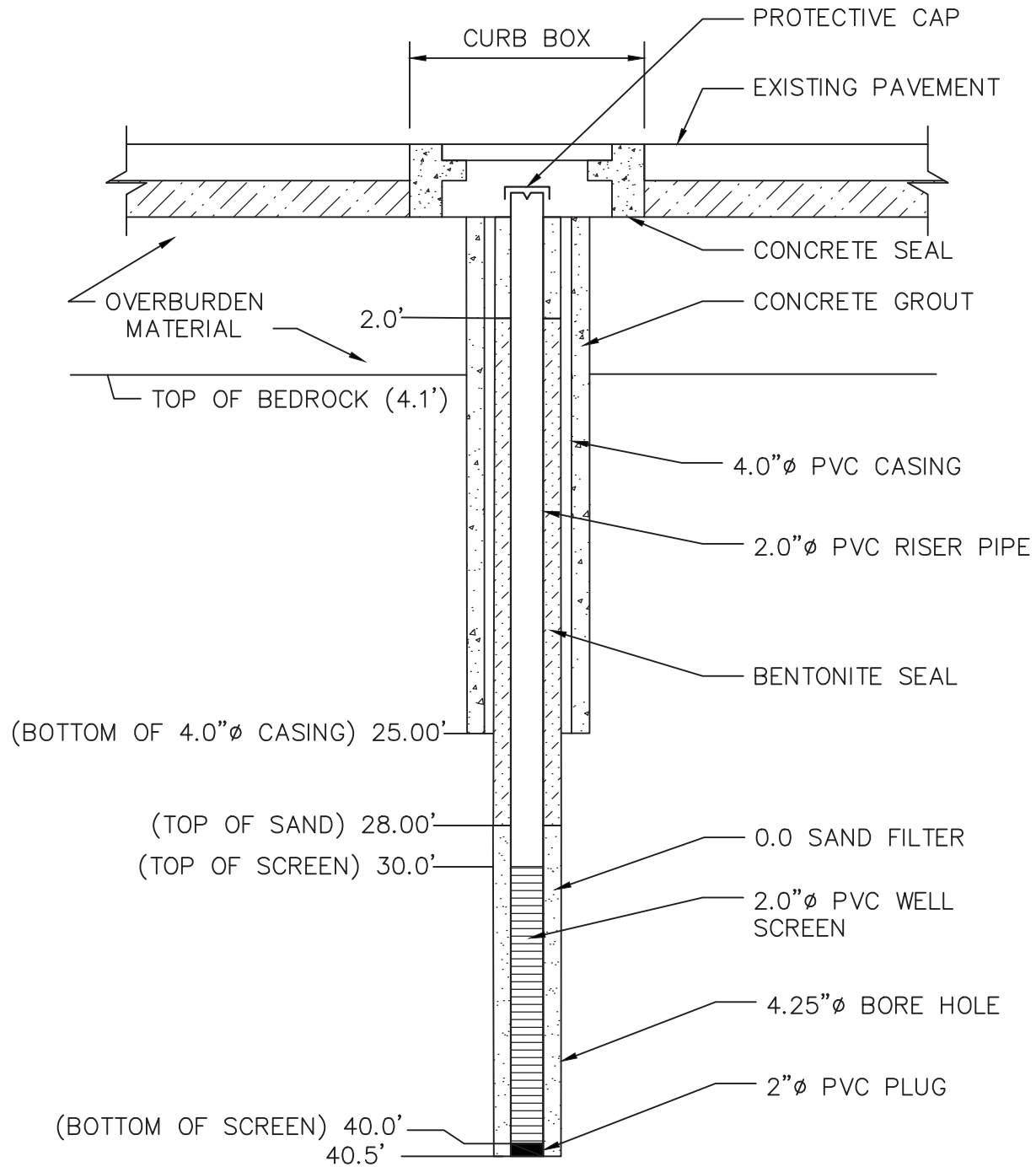
24 Wade Road ♦ Latham, New York 12110

WELL COMPLETION DETAILS FOR MW-7S
TROY BELTING & SUPPLY CO.
 70 COHOES ROAD
 ONSITE MONITORING WELL INSTALLATION

TOWN OF WATERVLIET

ALBANY CO., N.Y.

PROJ. No.: 2011-31 | DATE: 9/14/15 | SCALE: N.T.S. | DWG. NO. 2011-31002



NOTE:

Ø=DIAMETER

STERLING

Sterling Environmental Engineering, P.C.

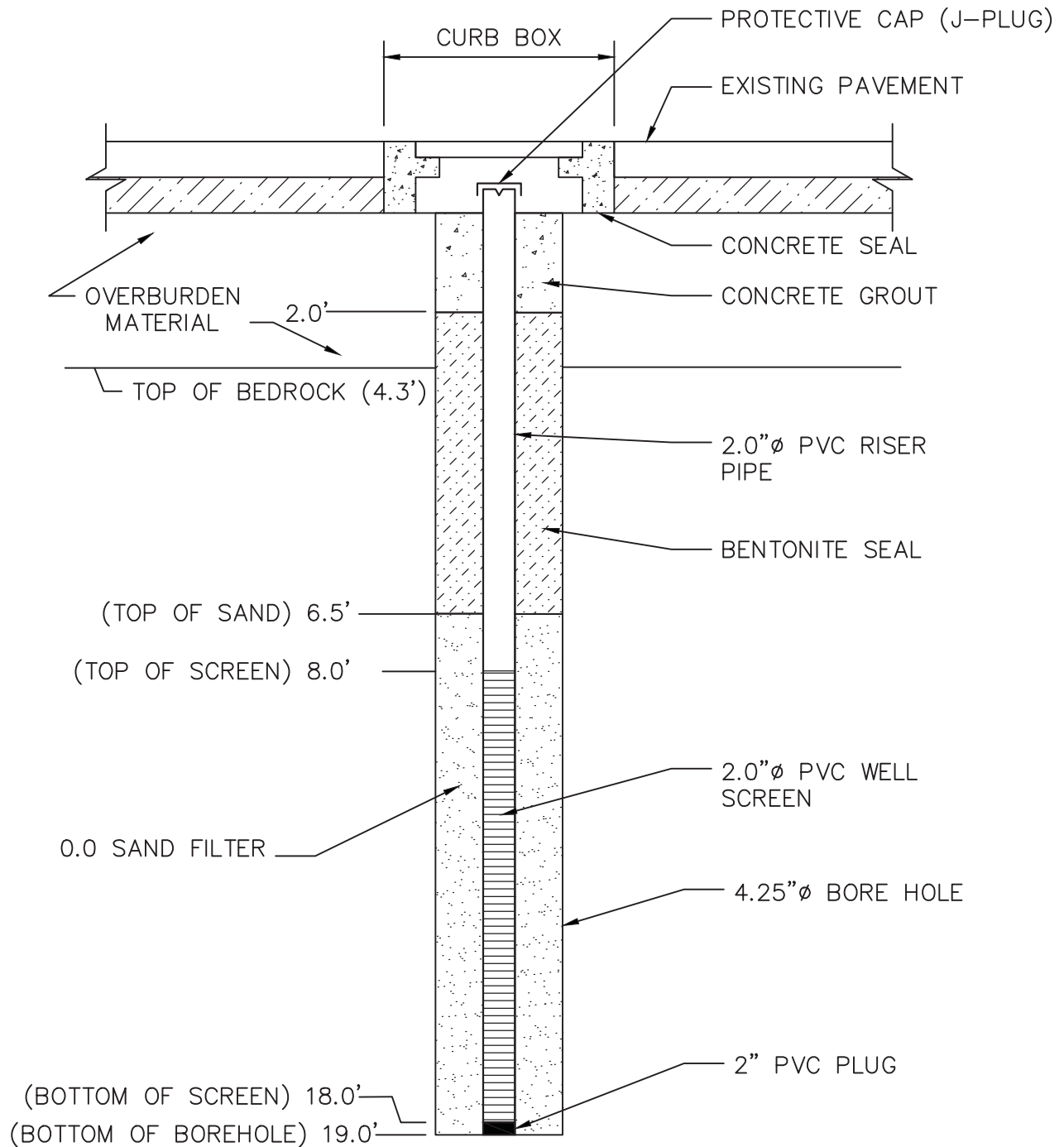
24 Wade Road ♦ Latham, New York 12110

WELL COMPLETION DETAILS FOR MW-7D
TROY BELTING & SUPPLY CO.
 70 COHOES ROAD
 ONSITE MONITORING WELL INSTALLATION

TOWN OF WATERVLIET

ALBANY CO., N.Y.

PROJ. No.: 2011-31 | DATE: 9/17/15 | SCALE: N.T.S. | DWG. NO. 2011-31003



NOTE:

ϕ = DIAMETER

STERLING

Sterling Environmental Engineering, P.C.

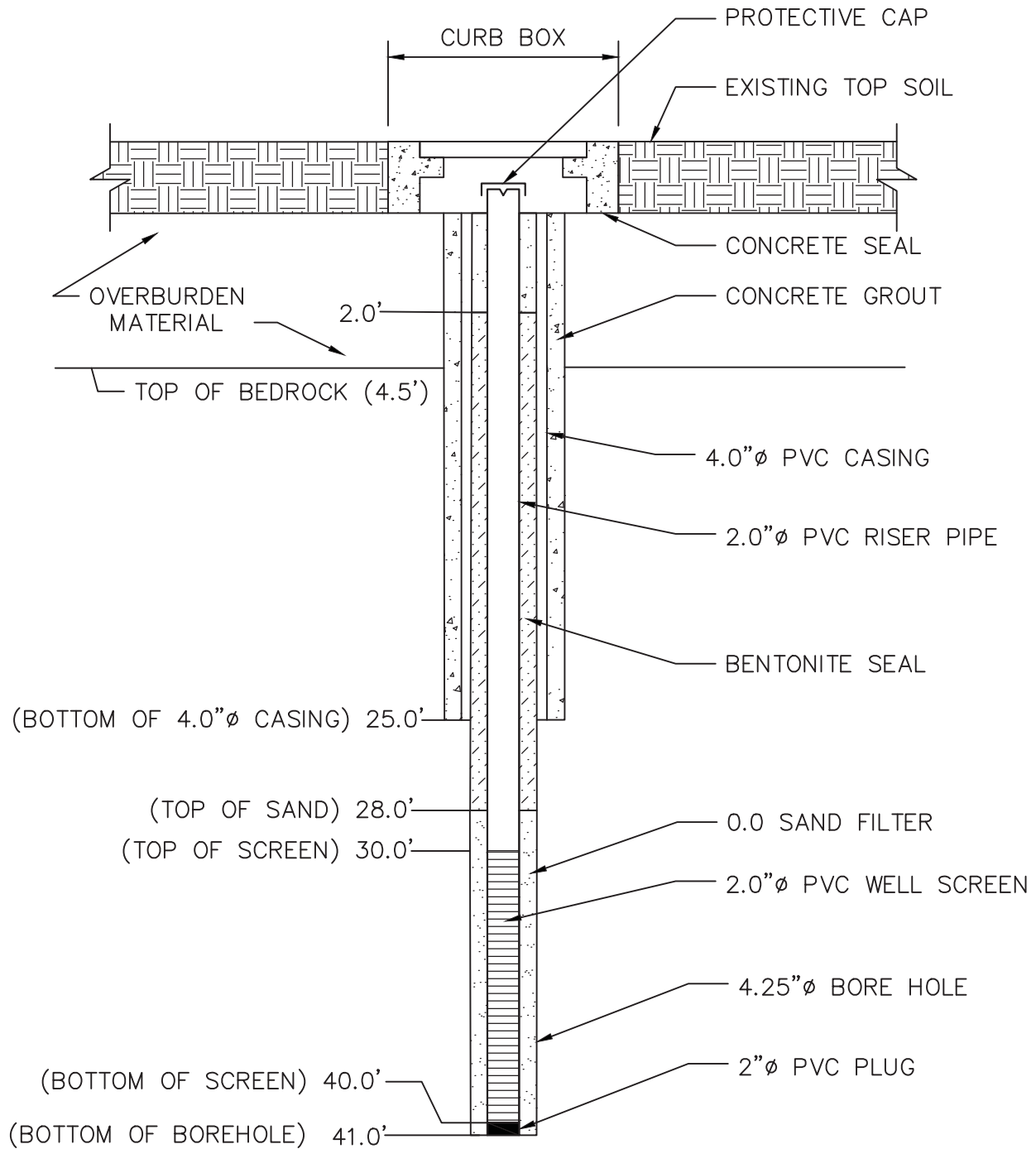
24 Wade Road ♦ Latham, New York 12110

WELL COMPLETION DETAILS FOR MW-8S
TROY BELTING & SUPPLY CO.
70 COHOES ROAD
ONSITE MONITORING WELL INSTALLATION

TOWN OF WATERVLIET

ALBANY CO., N.Y.

PROJ. No.: 2011-31 | DATE: 9/14/15 | SCALE: N.T.S. | DWG. NO. 2011-31002



NOTE:

Ø=DIAMETER

STERLING

Sterling Environmental Engineering, P.C.

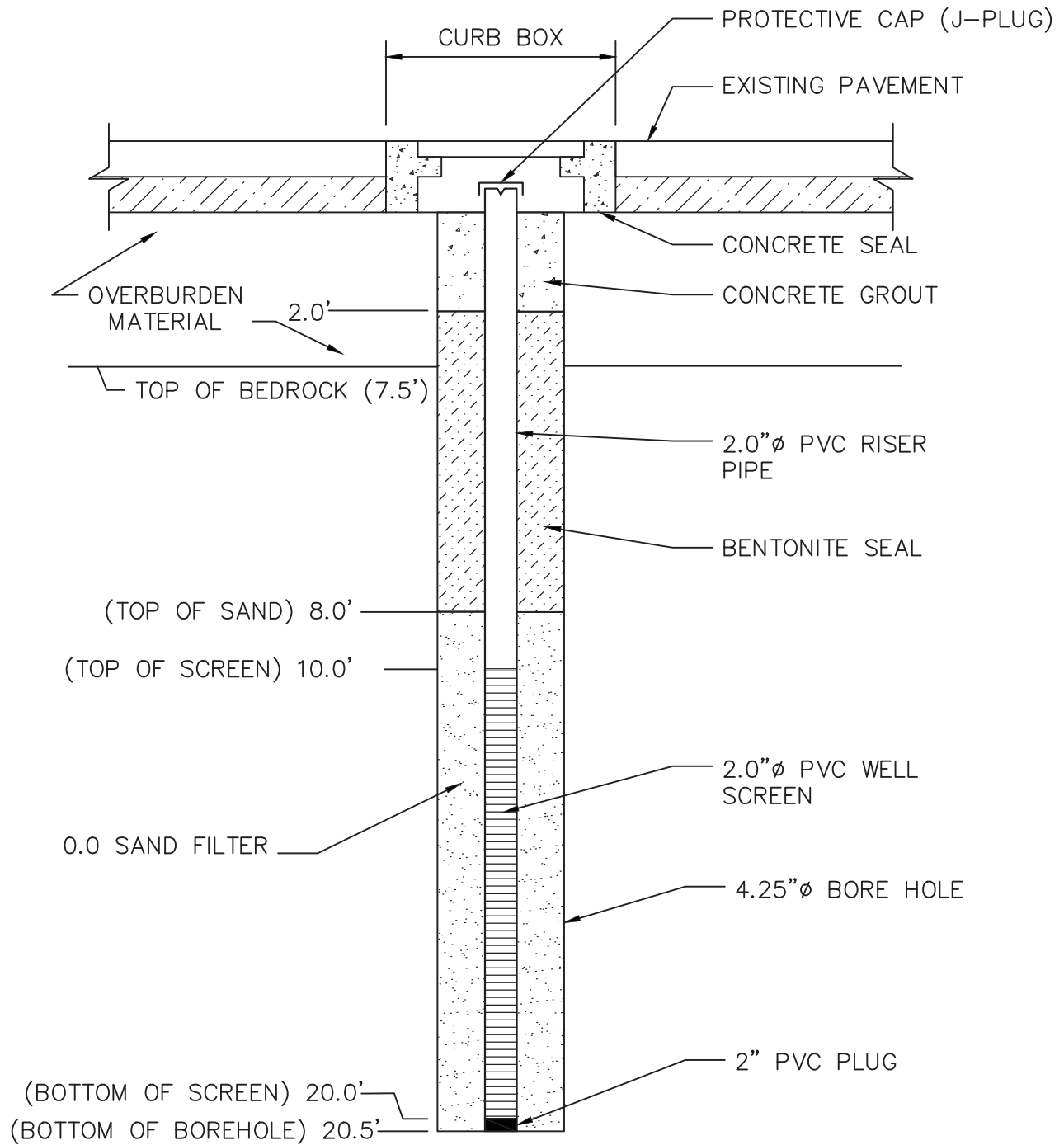
24 Wade Road ♦ Latham, New York 12110

WELL COMPLETION DETAILS FOR MW-8D
TROY BELTING & SUPPLY CO.
 70 COHOES ROAD
 ONSITE MONITORING WELL INSTALLATION

TOWN OF WATERVLIET

ALBANY CO., N.Y.

PROJ. No.: 2011-31 | DATE: 9/16/15 | SCALE: N.T.S. | DWG. NO. 2011-31004



NOTE:

Ø = DIAMETER

STERLING

Sterling Environmental Engineering, P.C.

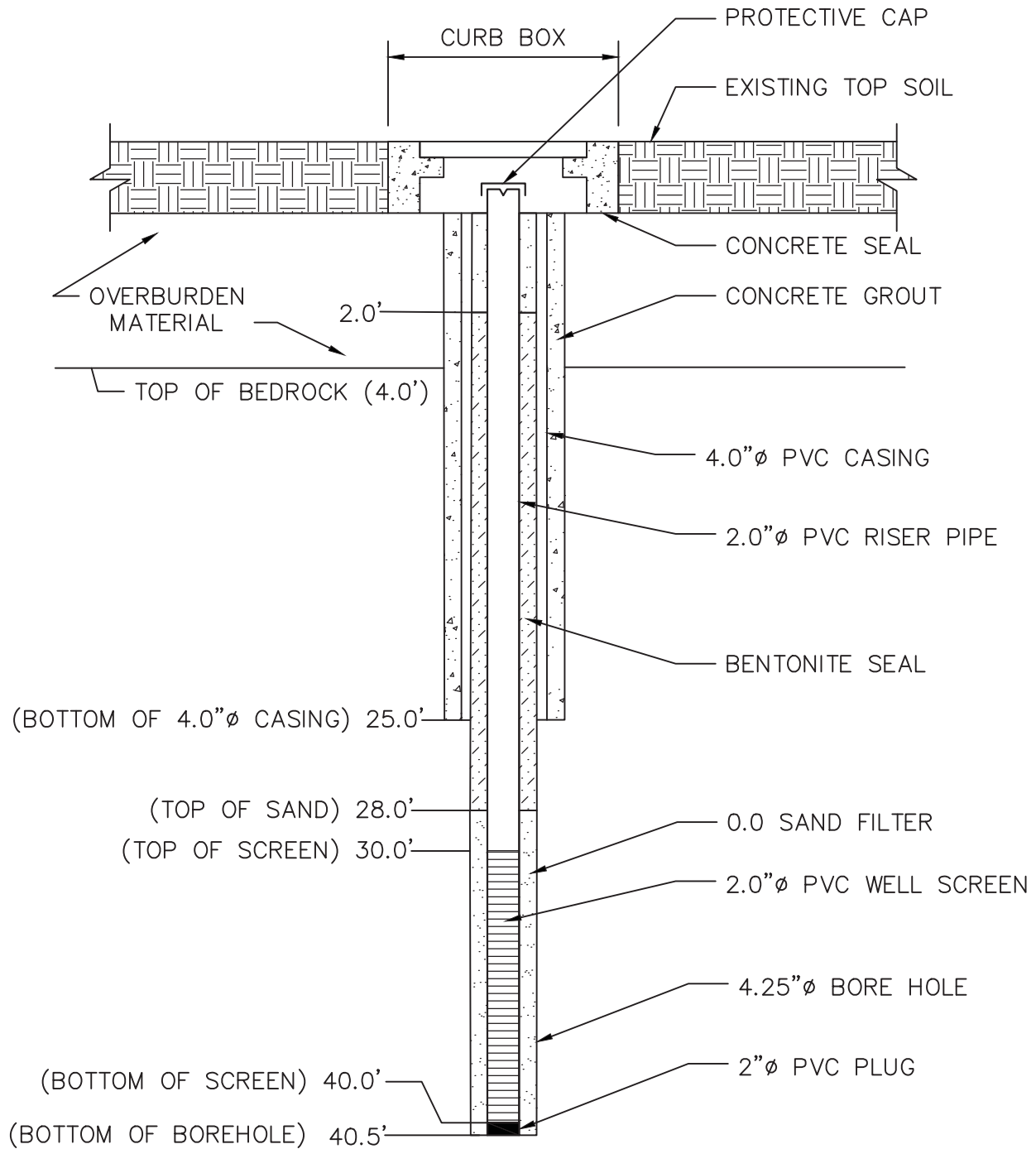
24 Wade Road ♦ Latham, New York 12110

WELL COMPLETION DETAILS FOR MW-9S
TROY BELTING & SUPPLY CO.
 70 COHOES ROAD
 ONSITE MONITORING WELL INSTALLATION

TOWN OF WATERVLIET

ALBANY CO., N.Y.

PROJ. No.: 2011-31 | DATE: 9/14/15 | SCALE: N.T.S. | DWG. NO. 2011-31002



NOTE:

Ø=DIAMETER

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Sterling Environmental Engineering, P.C.

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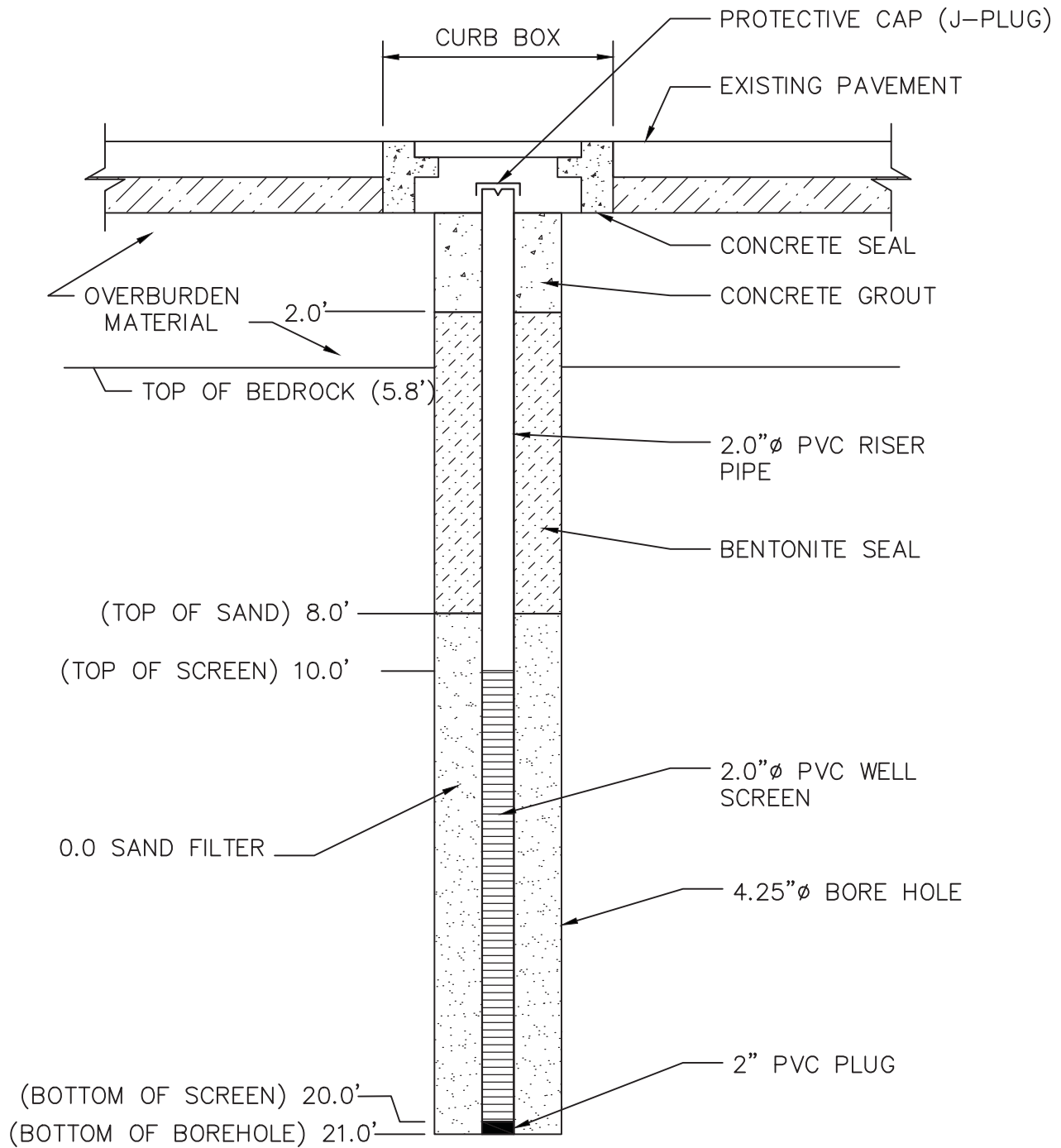
WELL COMPLETION DETAILS FOR MW-10D
TROY BELTING & SUPPLY CO.
 70 COHOES ROAD
 ONSITE MONITORING WELL INSTALLATION

TOWN OF WATERVLIET

ALBANY CO., N.Y.

PROJ. No.: 2011-31 | DATE: 9/16/15 | SCALE: N.T.S. | DWG. NO. 2011-31004

\\server02\shared\Drawings\2011-31- Troy Belting and Supply Co\2011-31003.WellCompletionDetail_MW-11S.dwg CAD 4/13/2016 11:58 AM



NOTE:

Ø = DIAMETER

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WELL COMPLETION DETAILS FOR MW-11S
TROY BELTING & SUPPLY CO.
70 COHOES ROAD
ONSITE MONITORING WELL INSTALLATION

TOWN OF WATERVLIET

ALBANY CO., N.Y.

PROJ. No.: 2011-31

DATE: 01/13/2016

SCALE:

N.T.S.

DWG. NO. 2011-31002

APPENDIX F

DATA USABILITY SUMMARY REPORTS
(PROVIDED ON CD)