



**Request for Bid
Group 1 CIPP Addendum No. 2 to
RFB No. 401712.71.0403
April 11, 2019**



The following information encompasses Addendum No. 2 for the above referenced RFB. Bidders shall fully consider and acknowledge this Addendum in the preparation and submittal of its formal Bid. Failure to do so may result in the rejection of the Bid.

Section 1 – Technical Specifications updated with addition of the CIPP Pipe Bid Schedule

All other conditions and requirements remain unchanged.

**Section 1
Technical Specifications updated with addition of the CIPP Pipe Bid Schedule**

Group 1 Rehab Project - CIPP Pipe Bid Schedule

Pipe ID	Sheet	US MH [Approx. Depth (ft.)]	DS MH [Approx. Depth (ft.)]	Diameter (in.)	Material	Approx. Repair Length (ft)	Approx. Repair Depth (ft)	Approx. # of Taps	Repair Method	Notes
WS011383S	ND05	WS011383 [8.4]	WS011382 [14.1]	10	Vitrified Clay Pipe	See Notes	12.0	2	Point Repair Only	Tap replacement @ 162' from 1383 for 10'
WS010207S	NE03	WS010207 [5.6]	WS010200 [11.5]	8	Concrete Pipe (non- reinforced)	295	8.6	6	CIPP	Point repair @ 34' from 0207 for 20', point repair at 118' from 0207 for 10', point repair @ 205' from 0207 for 10'.
WS010208S	NE03	WS010208 [11.0]	WS010207 [5.6]	8	Concrete Pipe (non- reinforced)	See Notes	8.3	16	Point Repair Only	Point repair @ 111' from 0208 for 10', point repair @ 150' from 0208 for 10', tap replacement at 274' from 0208 for 10'
WS010204.01S	NF03	WS010204.01 [4.9]	WS010204 [6.6]	8	Concrete Pipe (non- reinforced)	400	5.7	13	CIPP	Point repair @ 155' from 0204.01 for 10', point repair at 306' from 0204.01 for 10'
WS011070.02S	NF03	WS011070.02 [14.1]	WS011070.01 [16.8]	8	Vitrified Clay Pipe	See Notes	15.5	1	Point Repair Only	Point repair @ 95' from 1070.01 for 20'
WS011078S	NG06	WS011078 [6.9]	WS011077 [9.0]	8	Concrete Pipe (non- reinforced)	348	8.6	0	CIPP	
WS012217S	NG10	WS012217 [7.1]	WS012216 [8.2]	8	Concrete Pipe (non- reinforced)	See Notes	7.6	18	Point Repair Only	Point repair @ 50' from 2216 for 10', point repair @ 343' from 2216 for 10'
WS010374S	NH03	WS010374 [7.4]	WS010271 [12.7]	8	Concrete Pipe (non- reinforced)	284	10.0	7	CIPP	
WS011046S	NH04	WS011046 [8.9]	WS011045 [9.3]	8	Concrete Pipe (non- reinforced)	See Notes	9.1	4	Point Repair Only	Point repair @ 19' from 1046 for 10', point repair @ 149' from 1046 for 10'
WS011185S	NH06	WS011185 [13.2]	WS011184 [11.0]	8	Vitrified Clay Pipe	191	12.1	3	CIPP	Point repair @ 152' from 1185 for 10'
WS011203.02S	NH07	WS011203.02 [6.9]	WS011203 [10.3]	8	Concrete Pipe (non- reinforced)	See Notes	11.5	7	Point Repair Only	Point repair @ 253' from 2103.02 for 10'
WS011205S	NH07	WS011205 [9.0]	WS011204 [9.2]	8	Concrete Pipe (non- reinforced)	See Notes	9.4	4	Point Repair Only	Point repair @ 188' from 1204 for 10'
WS012214S	NH09	WS012214 [6.4]	WS012213 [7.3]	8	Concrete Pipe (non- reinforced)	See Notes	7.0	10	Point Repair Only	Point repair @ 112' from 2213 for 10'

Group 1 Rehab Project - CIPP Pipe Bid Schedule

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WS010118.13S	NI02	WS010118.13 [8.4]	WS010118.08 [-.]	12	Vitrified Clay Pipe	755	9.4	0	CIPP	Point repair @ 28' from 0118.13 for 10'
WS010369S	NI02	WS010369 [-.]	WS010265 [6.2]	8	Vitrified Clay Pipe	295	6.2	0	CIPP	Point repair @ 146' from 0265 for 10', point repair @ 168' from 0265 for 10'
WS010266S	NI03	WS010266 [8.9]	WS010265 [6.2]	8	Vitrified Clay Pipe	128	7.6	5	CIPP	Point repair @ 25' from 0266 for 10', point repair @ 52' from 0266 for 20'
WS010267S	NI03	WS010267 [8.4]	WS010266 [8.9]	8	Vitrified Clay Pipe	429	8.7	11	CIPP	Point repair @ 234' from 0267 for 10'
WS010268S	NI03	WS010268 [10.7]	WS010267 [8.4]	8	Vitrified Clay Pipe	230	9.6	5	CIPP	
WS010271S	NI03	WS010271 [12.7]	WS010268 [10.7]	8	Vitrified Clay Pipe	103	11.6	0	CIPP	
WS01098S	NI05	WS01098 [1.7]	WS01097 [8.5]	8	Vitrified Clay Pipe	337	5.1	11	CIPP	
WS011106.01S	NI05	WS011106.01 [8.7]	WS011106 [7.6]	8	Vitrified Clay Pipe	396	8.2	5	CIPP	Point repair @ 15' from 1106.01 for 10', point repair @ 114' from 1106.01 for 10'
WS011097S	NI06	WS011097 [8.5]	WS011090 [10.5]	8	Vitrified Clay Pipe	233	10.0	0	CIPP	Point repair @ 7' from 1097 for 10'
WS011222S	NI07	WS011222 [6.4]	WS011221 [6.2]	8	Concrete Pipe (non-reinforced)	See Notes	5.8	3	Point Repair Only	Point repair @ 32' from 1222 for 10'
WS011241.01S	NI08	WS011241.01 [11.5]	WS011241 [17.1]	12	Concrete Pipe (non-reinforced)	411	11.6	3	CIPP	
WS012199S	NI09	WS012199 [7.4]	WS012198 [12.4]	8	Concrete Pipe (non-reinforced)	166	9.9	3	CIPP	
WS012206.03S	NI10	WS012206.03 [14.0]	WS012206 [16.8]	15	Vitrified Clay Pipe	396	15.3	0	CIPP	
FS022686S	NJ02	FS022686 [5.8]	FS022685 [4.1]	12	Vitrified Clay Pipe	See Notes	5.2	2	Point Repair Only	Point repair @ 35' from 2686 for 15', point repair @ 261' from 2686 for 10', point repair @ 123' from 2685 for 10', point repair @ 323' from 2685 for 10'
WS010363.09S	NJ02	WS010363.09 [6.8]	WS010363.04 [6.3]	10	Vitrified Clay Pipe	208	6.5	7	CIPP	Point repair @ 6' from 0363.09 for 10'
FS022725S	NI03	FS022725 [-.]	FS022724 [8.4]	6	Vitrified Clay Pipe	See Notes	8.2	3	Point Repair Only	Point repair @ 337' from 2725 for 10'

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WS011114S	NI04	WS011114 [-.]	WS011113 [8.8]	8	Vitrified Clay Pipe	353	8.9	12	CIPP	Point repair @ 210' from 1113 for 10'
WS011096S	NI05	WS011096 [9.4]	WS011095 [8.6]	8	Vitrified Clay Pipe	313	9.0	0	CIPP	Point repair @ 174' from 1095 for 10'; point repair @ 272' from 1095 for 10'
WS011218S	NI07	WS011218 [15.1]	WS011217 [13.1]	8	Concrete Pipe (non- reinforced)	See Notes	13.6	3	Point Repair Only	Point repair @ 74' from 1218 for 10'
WS011267S	NI09	WS011267 [8.8]	WS011266 [8.2]	8	CIPP	See Notes	9.1	4	Point Repair Only	Tap replacement @ 24' from 1267 for 10'
FS022694S	NK02	FS022694 [3.3]	FS022693 [8.8]	10	Vitrified Clay Pipe	See Notes	7.1	11	Point Repair Only	Point repair @ 591' from 2693 for 10'
WS010363.10S	NK02	WS010363.10 [5.8]	WS010363.09 [6.8]	10	Vitrified Clay Pipe	See Notes	6.3	12	Point Repair Only	Point repair @ 11' from 0363.10 for 10'
WS010363.12S	NK02	WS010363.12 [-.]	WS010363.11 [4.5]	8	Vitrified Clay Pipe	352	4.4	9	CIPP	Point repair @ 266' from 0363.12 for 10'; point repair at 25' from 0363.11 for 10'
WS010365.02S	NK02	WS010365.02 [2.1]	WS010365.01 [4.2]	8	Vitrified Clay Pipe	419	3.2	8	CIPP	Point repair @ 352' from 0365.01 for 10'
FS022698S	NK03	FS022698 [6.9]	FS022697 [-.]	8	Vitrified Clay Pipe	421	6.9	10	CIPP	Point repair @ 285' from 2698 for 10'; point repair @ 337' from 2698 for 10'
FS022724S	NK03	FS022724 [8.4]	FS022723 [4.0]	8	Vitrified Clay Pipe	See Notes	6.3	0	Point Repair Only	Point repair @ 120' from 2724 for 10'
WS011341S	NK04	WS011341 [9.8]	WS011340 [9.0]	8	Vitrified Clay Pipe	See Notes	8.9	18	Point Repair Only	Tap replacement @ 377' from 1341 for 10'
WS011371S	NK05	WS011371 [8.0]	WS011370 [12.5]	8	Vitrified Clay Pipe	402	10.2	9	CIPP	Tap replacement @ 254' from 1371 for 10'
WS011249.03S	NK08	WS011249.03 [Dead End]	WS011249.02 [7.1]	6	Concrete Pipe (non- reinforced)	See Notes	6.9	0	Point Repair Only	Point repair @ 145' from 1249.02 for 10'
FS022682S	NL02	FS022682 [3.2]	FS022683.01 [-.]	8	Concrete Pipe (non- reinforced)	115	3.4	0	CIPP	Point repair @ 70' from 2682 for 10'
FS022683.01S	NL02	FS022683.01 [-.]	FS022683 [3.7]	8	Concrete Pipe (non- reinforced)	54	3.7	0	CIPP	Point repair @ 23' from 2683.01 for 10'
FS022690S	NL02	FS022690 [Cleanout]	FS022681 [3.9]	6	Vitrified Clay Pipe	See Notes	6.5	5	Point Repair Only	Point repair @ 42' from 2681 for 10'; point repair @ 102' from 2681 for 10'
FS022693S	NL02	FS022693 [8.8]	FS022673 [6.2]	10	Vitrified Clay Pipe	835	7.7	17	CIPP	Point repair @ 522' from 2693 for 10'

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FS022696.01S	NL03	FS022696.01 [4.0]	FS022696 [8.9]	10	Vitrified Clay Pipe	See Notes	6.5	3	Point Repair Only	Point repair at 170' from 2696.01 for 10'
FS022696S	NL03	FS022696 [8.9]	FS022674 [6.2]	10	Vitrified Clay Pipe	831	7.7	15	CIPP	Tap replacement @ 47' from 2696 for 10'
FS022701S	NL03	FS022701 [8.7]	FS022675 [6.5]	10	Vitrified Clay Pipe	See Notes	7.7	6	Point Repair Only	Point repair @ 165' from 2701 for 10', tap replacement @ 384' from 2701 for 10'
FS022703S	NL03	FS022703 [4.1]	FS022702 [4.3]	10	Vitrified Clay Pipe	See Notes	4.6	0	Point Repair Only	Point repair @ 2' from 2703 for 10', point repair @ 19' from 2703 for 10'
FS022721.02S	NL03	FS022721.02 [-.1]	FS022721.01 [4.6]	8	Vitrified Clay Pipe	See Notes	4.2	0	Point Repair Only	Point repair @ 33' from 2721.01 for 10'
FS022721.06S	NL03	FS022721.06 [-.1]	FS022721.05 [-.1]	6	Vitrified Clay Pipe	See Notes	4.2	1	Point Repair Only	Point repair @ 225' from 2721.06 for 10'
FS022721S	NL03	FS022721 [4.5]	FS022677.01 [7.7]	8	Vitrified Clay Pipe	301	6.1	9	CIPP	Point repair @ 253' from 2721 for 10'
FS022729S	NL03	FS022729 [5.5]	FS022721.03 [-.1]	8	Vitrified Clay Pipe	See Notes	4.3	0	Point Repair Only	Point repair @ 171' from 2729 for 10', point repair @ 226' from 2729 for 10'
FS022743S	NL04	FS022743 [4.0]	FS022740 [4.7]	8	Vitrified Clay Pipe	See Notes	4.7	7	Point Repair Only	Tap replacement @ 327' from 2740 for 10', point repair @ 819' from 2740 for 10'
WS011346S	NL04	WS011346 [8.5]	WS011345 [8.0]	8	Vitrified Clay Pipe	495	7.7	18	CIPP	Tap replacement @ 160' from 1346 for 10', point repair @ 210' from 1346 for 10'
WS011274.02S	NL09	WS011274.02 [6.7]	WS011274.01 [7.3]	8	Concrete Pipe (non- reinforced)	187	7.2	2	CIPP	
FS022502S	NM02	FS022502 [7.4]	FS022501 [-.1]	24	Vitrified Clay Pipe	556	7.4	19	CIPP	
FS022672S	NM02	FS022672 [-.1]	FS022671 [-.1]	12	Cast Iron Pipe	See Notes	7.2	2	Point Repair Only	Point repair @ 73' from 2672 for 10'
FS022678.01S	NM03	FS022678.01 [3.9]	FS022678 [10.1]	8	Vitrified Clay Pipe	454	7.0	1	CIPP	
WS011337S	NM04	WS011337 [8.6]	WS011327 [6.3]	8	Vitrified Clay Pipe	See Notes	7.2	15	Point Repair Only	Tap replacement @ 311' from 1337 for 10'
FS021687S	NN01	FS021687 [-.1]	FS021686 [15.4]	8	Vitrified Clay Pipe	See Notes	15.6	0	Point Repair Only	Point repair @ 120' from 1686 for 10'
WS010502.01S	NN03	WS010502.01 [-.1]	WS010502 [8.4]	27	Vitrified Clay Pipe	107	8.9	1	CIPP	Point repair @ 101' from 0502 for 20'
WS010504.02S	NN03	WS010504.02 [7.8]	WS010504.01 [8.6]	24	Vitrified Clay Pipe	5	8.2	0	CIPP	

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WS010505S	NN03	WS010505 [9.0]	WS010504.01 [8.6]	24	Vitrified Clay Pipe	388	8.9	3	CIPP	Point repair @ 182' from 0505 for 10'
WS010539S	NO02	WS010539 [9.1]	WS010507 [10.8]	8	Vitrified Clay Pipe	See Notes	10.0	1	Point Repair Only	Point repair @ 147' from 0539 for 10'
WS010508.02S	NP02	WS010508.02 [-.1]	WS010508.03 [-.1]	24	Vitrified Clay Pipe	60	11.7	0	CIPP	
WS010508.03S	NP02	WS010508.03 [-.1]	WS010508 [9.6]	24	Vitrified Clay Pipe	55	12.0	0	CIPP	
WS010508S	NP02	WS010508 [9.6]	WS010507 [10.8]	24	Vitrified Clay Pipe	166	10.4	0	CIPP	
WS010511S	NQ02	WS010511 [9.9]	WS010510 [9.5]	24	Vitrified Clay Pipe	See Notes	10.1	9	Point Repair Only	Point repair @ 65' from 0511 for 15'
FS045254.01S	SB16	FS045254.01 [8.3]	FS045254 [8.3]	10	Vitrified Clay Pipe	456	8.4	11	CIPP	
FS045254.03S	SB16	FS045254.03 [Dead End]	FS045254 [8.3]	10	Vitrified Clay Pipe	112	8.3	2	CIPP	
FS045254S	SB16	FS045254 [8.3]	FS045253 [8.6]	10	Vitrified Clay Pipe	465	8.5	5	CIPP	
FS045601.02S	SB17	FS045601.02 [9.8]	FS045601.01 [6.4]	6	Vitrified Clay Pipe	See Notes	8.6	2	Point Repair Only	Point repair @ 18' from 5601.02 for 10', point repair @ 80' from 5601.02 for 10'
FS045131.03S	SB18	FS045131.03 [-.1]	FS045131 [8.1]	10	Vitrified Clay Pipe	See Notes	8.3	0	Point Repair Only	Point repair @ 106' from 5131 for 20'
FS045131S	SB18	FS045131 [8.1]	FS045130.01 [9.2]	10	Vitrified Clay Pipe	351	9.5	8	CIPP	
FS045130.06S	SC17	FS045130.06 [Dead End]	FS045130.05 [6.2]	6	Vitrified Clay Pipe	See Notes	6.5	4	Point Repair Only	Point repair @ 160' from 5130.05 for 10'
FS045444S	SC17	FS045444 [16.7]	FS045442 [13.7]	8	Polyvinyl Chloride	317	15.4	3	CIPP	
FS045445S	SC17	FS045445 [7.8]	FS045444 [16.7]	8	Vitrified Clay Pipe	585	12.6	7	CIPP	Tap replacement @ 115' from 5444 for 15', point repair @ 96' from 5445 for 10', point repair @ 143' from 5445 for 10' point repair @ 273' from 5445 for 10'
FS045534S	SC17	FS045534 [9.1]	FS045444 [16.7]	10	Vitrified Clay Pipe	549	13.2	6	CIPP	Point repair @ 202' from 5444 for 10', point repair @ 20' from 5534 for 10'
FS045210S	SC18	FS045210 [6.5]	FS045209 [5.7]	8	Vitrified Clay Pipe	320	6.2	8	CIPP	Point repair @ 58' from 5210 for 10', point repair @ 249' from 5210 for 10'
NN021434S	SD16	NN021434 [-.1]	NN021434.01 [Not Specified]	6	Vitrified Clay Pipe	See Notes	2.6	1	Point Repair Only	Point repair @ 5' from 1434.01 for 20'

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NN021420S	SD17	NN021420 [12.4]	NN021421 [9.4]	8	Vitrified Clay Pipe	376	11.0	0	CIPP	
NN021421S	SD17	NN021421 [9.4]	FS045534 [9.1]	8	Vitrified Clay Pipe	354	9.5	2	CIPP	Point repair @ 191' from 1421 for 10'
FS045677S	SD18	FS045677 [9.3]	FS045137 [10.7]	8	Vitrified Clay Pipe	796	10.0	37	CIPP	Tap replacement @ 534' from 5677 for 10'
NN021411.01S	SE17	NN021411.01 [-]	NN021411 [4.1]	6	Vitrified Clay Pipe	See Notes	4.2	0	Point Repair Only	Point repair @ 82' from 1411 for 10', point repair @ 105' from 1411 for 10'
FS045368S	SE18	FS045368 [5.5]	FS045367 [10.4]	6	Vitrified Clay Pipe	See Notes	8.1	4	Point Repair Only	Point repair @ 53' from 5368 for 10'
FS045640S	SE19	FS045640 [7.7]	FS045635 [7.1]	8	Polyvinyl Chloride Pipe	265	7.6	3	CIPP	
NN021409S	SF17	NN021409 [12.0]	NN021408 [12.1]	8	Vitrified Clay Pipe	644	12.1	6	CIPP	Point repair @ 240' from 1409 for 10'
NN021429S	SF18	NN021429 [8.8]	NN021428.01 [3.3]	8	Vitrified Clay Pipe	293	5.9	12	CIPP	
NN021430S	SF18	NN021430 [7.7]	NN021429 [8.8]	8	Vitrified Clay Pipe	574	4.5	9	CIPP	Point repair 2' 4' from 1429 for 10', point repair @ 174' from 1429 for 10'
NN020740S	SF19	NN020740 [4.5]	NN020739.01 [9.7]	8	Vitrified Clay Pipe	See Notes	4.5	1	Point Repair Only	Point repair @ 83' from 0740 for 10'
NN020720S	SG16	NN020720 [7.2]	NN020719 [8.4]	8	Vitrified Clay Pipe	346	6.5	14	CIPP	Point repair @ 336' from 0720 for 10'
NN020765S	SG16	NN020765 [Dead End]	NN020764 [10.6]	8	Vitrified Clay Pipe	247	10.4	6	CIPP	
NN020710S	SG17	NN020710 [11.9]	NN020709 [9.2]	8	Vitrified Clay Pipe	289	10.9	4	CIPP	
NN021090S	SG17	NN021090 [9.4]	NN021085 [7.0]	8	Vitrified Clay Pipe	154	6.0	0	CIPP	Point repair @ 12' from 1085 for 15'
NN021428.01S	SG18	NN021428.01 [3.3]	NN021428 [3.5]	8	Vitrified Clay Pipe	377	3.5	12	CIPP	
NN020577S	SH17	NN020577 [9.7]	NN020576.01 [10.7]	8	Vitrified Clay Pipe	94	10.0	0	CIPP	
NN020578S	SH17	NN020578 [7.7]	NN020577 [9.7]	8	Vitrified Clay Pipe	153	9.0	1	CIPP	
NN020582S	SH17	NN020582 [6.7]	NN020578 [7.7]	8	Vitrified Clay Pipe	61	7.3	0	CIPP	
NN020708S	SH17	NN020708 [10.5]	NN020576 [11.0]	8	Vitrified Clay Pipe	574	8.7	7	CIPP	

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NN020709S	SH17	NN020709 [9.2]	NN020708 [10.5]	8	Vitrified Clay Pipe	308	8.5	9	CIPP	
NN020767.01S	SH17	NN020767.01 [9.5]	NN020767 [7.0]	8	Concrete Pipe (non- reinforced)	157	8.3	0	CIPP	
NN020767S	SH17	NN020767 [7.0]	NN020766 [6.2]	8	Vitrified Clay Pipe	338	7.9	2	CIPP	
NN020768S	SH17	NN020768 [10.4]	NN020767.01 [9.5]	8	Concrete Pipe (non- reinforced)	271	10.0	0	CIPP	
NN021085S	SH17	NN021084 [1.7]	NN021085 [7.0]	8	Vitrified Clay Pipe	471	4.1	2	CIPP	
NN020733S	SH18	NN020733 [12.8]	NN020732 [5.0]	10	Vitrified Clay Pipe	269	8.6	0	CIPP	Point repair @ 216' from 0733 for 10'
NN020734S	SH18	NN020734 [10.9]	NN020733 [12.8]	10	Concrete Pipe (non- reinforced)	602	10.5	4	CIPP	Point repair @ 336' from 0733 for 10'
NN020911S	SH18	NN020911 [9.6]	NN020910 [4.8]	8	Concrete Pipe (non- reinforced)	189	7.2	4	CIPP	
NN020940S	SH18	NN020940 [17.1]	NN020939 [9.5]	15	Vitrified Clay Pipe	284	12.4	0	CIPP	
NN021083S	SH18	NN021083 [9.6]	NN020733 [12.8]	8	Vitrified Clay Pipe	452	8.7	11	CIPP	Point repair @ 306' from 1083 for 10'
NN020518S	SI16	NN020518 [6.9]	NN020517 [7.4]	18	Vitrified Clay Pipe	368	7.2	0	CIPP	
NN020602S	SI16	NN020602 [6.5]	NN020518 [6.9]	8	Vitrified Clay Pipe	97	6.0	1	CIPP	
NN020603S	SI16	NN020603 [9.7]	NN020602 [6.5]	8	Vitrified Clay Pipe	328	7.4	3	CIPP	
NN020574S	SI17	NN020574 [7.4]	NN020573 [7.2]	15	Vitrified Clay Pipe	291	7.2	2	CIPP	
NN020575.01S	SI17	NN020575.01 [5.9]	NN020575 [7.2]	8	Vitrified Clay Pipe	228	6.5	0	CIPP	
NN020575S	SI17	NN020575 [7.2]	NN020574 [7.4]	15	Vitrified Clay Pipe	38	7.1	0	CIPP	
NN020576.01S	SI17	NN020576.01 [10.7]	NN020576 [11.0]	8	Vitrified Clay Pipe	319	11.0	2	CIPP	

Group 1 Rehab Project - CIPP Pipe Bid Schedule

Pipe ID	Sheet	US MH [Approx. Depth (ft.)]	DS MH [Approx. Depth (ft.)]	Diameter (in.)	Material	Approx. Repair Length (ft)	Approx. Repair Depth (ft)	Approx. # of Taps	Repair Method	Notes
NN020576S	SI17	NN020576 [11.0]	NN020575 [7.2]	8	Concrete Pipe (non-reinforced)	492	9.0	0	CIPP	Point repair @ 251' from 0576 for 10'
NN020766S	SI17	NN020766 [6.2]	NN020575.01 [5.9]	8	Vitrified Clay Pipe	172	6.1	1	CIPP	
NN021082S	SI17	NN021082 [Dead End]	NN021081 [10.4]	8	Vitrified Clay Pipe	233	10.3	1	CIPP	
NN020590S	SI18	NN020590 [8.8]	NN020589 [7.3]	15	Vitrified Clay Pipe	293	9.2	0	CIPP	
NN020782S	SI18	NN020782 [10.4]	NN020781 [8.9]	8	Vitrified Clay Pipe	See Notes	11.1	12	Point Repair Only	Tap replacement @ 71' from 0782 for 10', tap replacement @ 139' from 0782 for 10', tap replacement @ 189' from 0782 for 10', tap replacement @ 335' from 0782 for 10', point repair @ 362' from 0782 for 10'
NN020545S	SI16	NN020545 [6.6]	NN020544 [7.7]	8	Concrete Pipe (non-reinforced)	341	7.0	1	CIPP	Point repair @ 129' from 0545 for 10', point repair @ 253' from 0545 for 10'
NN020567.01S	SI16	NN020567.01 [5.2]	NN020567 [5.5]	15	Vitrified Clay Pipe	325	5.4	1	CIPP	
NN020570S	SI16	NN020570 [5.3]	NN020567.01 [5.2]	15	Vitrified Clay Pipe	315	5.3	2	CIPP	
NN020572S	SI17	NN020572 [6.3]	NN020570 [5.3]	15	Concrete Pipe (non-reinforced)	427	7.3	0	CIPP	
NN020573S	SI17	NN020573 [7.2]	NN020572 [6.3]	15	Vitrified Clay Pipe	476	6.7	0	CIPP	
NN020829S-1	SI18	NN020829 [5.7]	NN020586.04 [8.6]	8	Concrete Pipe (non-reinforced)	See Notes	7.8	0	Point Repair Only	Point repair @ 36' from 0586.04 for 10'
NN021048S	SI18	NN021048 [7.5]	NN020828 [6.1]	8	Concrete Pipe (non-reinforced)	201	7.0	0	CIPP	
NN020890.01S	SI19	NN020890.01 [10.8]	NN020650 [14.2]	6	Vitrified Clay Pipe	See Notes	11.9	5	Point Repair Only	Point repair @ 3' from 0650 for 10'
NN020893S	SI19	NN020893 [-.]	NN020890.01 [10.8]	6	Vitrified Clay Pipe	See Notes	11.1	0	Point Repair Only	Point repair @ 1' from 0890.01 for 10'

Group 1 Rehab Project - CIPP Pipe Bid Schedule

Pipe ID	Sheet	US MH [Approx. Depth (ft.)]	DS MH [Approx. Depth (ft.)]	Diameter (in.)	Material	Approx. Repair Length (ft)	Approx. Repair Depth (ft)	Approx. # of Taps	Repair Method	Notes
NN020898S	SL19	NN020898 [9.5]	NN020874 [10.2]	8	Concrete Pipe (non-reinforced)	See Notes	8.4	0	Point Repair Only	Point repair @ 105' from 0898 for 10'
NN022359S	SK12	NN022359 [10.4]	NN022358 [8.7]	8	Concrete Pipe (non-reinforced)	251	9.7	3	CIPP	Point repair @ 77' from 2359 for 10', point repair @ 122' from 2359 for 10'
NN022358S	SK13	NN022358 [8.7]	NN022356 [5.2]	8	Concrete Pipe (non-reinforced)	504	7.0	14	CIPP	Point repair @ 293' from 2356 for 10'
NN020989S	SK16	NN020989 [4.4]	NN020539.04 [4.2]	10	Concrete Pipe (non-reinforced)	106	4.0	1	CIPP	
NN020990S	SK16	NN020990 [4.6]	NN020990.01 [4.0]	8	Concrete Pipe (non-reinforced)	465	4.5	0	CIPP	
NN020843S	SK18	NN020843 [Dead End]	NN020842 [8.6]	8	Vitrified Clay Pipe	343	9.0	1	CIPP	Point repair @ 132' from 0842 for 10', tap replacement @ 272' from 0842 for 10'
NN020882S	SK19	NN020882 [-.-]	NN020881 [9.5]	8	Vitrified Clay Pipe	338	9.5	1	CIPP	Tap replacement @ 252' from 0881 for 10'
NN023150S	SL08	NN023150 [9.0]	NN023149 [6.4]	8	Vitrified Clay Pipe	292	7.7	0	CIPP	Point repair @ 192' from 3150 for 10', point repair @ 241' from 3150 for 10', point repair @ 291' from 3150 for 10'
NN022365S	SL12	NN022365 [Dead End]	NN022359 [10.4]	8	Concrete Pipe (non-reinforced)	326	10.5	4	CIPP	
NN022308.04S	SL13	NN022308.04 [5.9]	NN022308.02 [6.0]	8	Concrete Pipe (non-reinforced)	See Notes	6.1	2	Point Repair Only	Point repair @ 121' from 2308.04 for 10'
NN022371S	SL13	NN022371 [Dead End]	NN022370 [8.5]	8	Vitrified Clay Pipe	196	8.6	3	CIPP	
NN022546S	SL13	NN022546 [9.0]	NN022356 [5.2]	8	Vitrified Clay Pipe	306	7.2	8	CIPP	Point repair @ 15' from 2546 for 10'
NN020537S	SL15	NN020537 [6.2]	NN020536 [-.-]	24	Vitrified Clay Pipe	415	5.0	0	CIPP	Point repair @ 73' from 0537 for 10'
NN020698S	SL15	NN020698 [6.4]	NN020697 [7.3]	8	Vitrified Clay Pipe	380	7.0	12	CIPP	

Group 1 Rehab Project - CIPP Pipe Bid Schedule

Pipe ID	Sheet	US MH [Approx. Depth (ft.)]	DS MH [Approx. Depth (ft.)]	Diameter (in.)	Material	Approx. Repair Length (ft)	Approx. Repair Depth (ft)	Approx. # of Taps	Repair Method	Notes
NN021656S	SL15	NN021656 [5.6]	NN021595 [5.3]	8	Concrete Pipe (non-reinforced)	382	5.1	0	CIPP	
NN021596S	SL16	NN021596 [5.0]	NN021595 [5.3]	8	Concrete Pipe (non-reinforced)	55	4.5	0	CIPP	
NN020685S	SL17	NN020685 [10.0]	NN020684 [8.4]	8	Vitrified Clay Pipe	See Notes	10.5	0	Point Repair Only	Point repair @ 43' from 0684 for 10'
NN020982S	SL17	NN020982 [6.0]	NN020916 [Dead End]	8	Concrete Pipe (non-reinforced)	184	7.3	1	CIPP	
NN020983S	SL17	NN020983 [12.0]	NN020982 [6.0]	8	Concrete Pipe (non-reinforced)	203	10.0	0	CIPP	
NN020661S	SL19	NN020661 [4.5]	NN020640 [8.6]	8	Concrete Pipe (non-reinforced)	209	8.7	0	CIPP	
NN022495S	SM11	NN022495 [Dead End]	NN022494 [7.1]	8	Concrete Pipe (non-reinforced)	181	7.1	6	CIPP	
NN022741S	SM11	NN022741 [8.9]	NN022740 [10.1]	8	Vitrified Clay Pipe	541	9.5	9	CIPP	
NN022303S	SM12	NN022303 [7.4]	NN022302 [6.8]	8	Concrete Pipe (non-reinforced)	348	7.3	14	CIPP	
NN022304S	SM12	NN022304 [Dead End]	NN022303 [7.4]	8	Concrete Pipe (non-reinforced)	278	7.7	12	CIPP	
NN022401S	SM12	NN022401 [7.2]	NN022400 [10.2]	8	Concrete Pipe (non-reinforced)	See Notes	7.2	1	Point Repair Only	Point repair @ 12' from 2400 for 10'
NN022460S	SM12	NN022460 [8.8]	NN022459 [8.1]	8	Concrete Pipe (non-reinforced)	446	8.5	22	CIPP	
NN022555S	SM12	NN022555 [7.3]	NN022301 [6.4]	8	Concrete Pipe (non-reinforced)	349	7.0	12	CIPP	

Group 1 Rehab Project - CIPP Pipe Bid Schedule

Pipe ID	Sheet	US MH [Approx. Depth (ft)]	DS MH [Approx. Depth (ft)]	Diameter (in.)	Material	Approx. Repair Length (ft)	Approx. Repair Depth (ft)	Approx. # of Taps	Repair Method	Notes
NN022301S	SM13	NN022301 [6.4]	NN02148.02 [5.4]	10	Vitrified Clay Pipe	244	6.0	9	CIPP	
NN022302S	SM13	NN022302 [6.8]	NN022301 [6.4]	8	Vitrified Clay Pipe	275	6.6	5	CIPP	
NN022370S	SM13	NN022370 [8.5]	NN022302 [6.8]	8	Vitrified Clay Pipe	263	7.7	4	CIPP	
NN022459S	SM13	NN022459 [8.1]	NN022370 [8.5]	8	Concrete Pipe (non- reinforced)	152	8.4	5	CIPP	Point repair @ 144' from 2370 for 10'
NN022671S	SM13	NN022671 [7.6]	NN022302 [6.8]	8	Concrete Pipe (non- reinforced)	352	7.3	10	CIPP	
NN022674S	SM13	NN022674 [4.5]	NN022301 [6.4]	8	Concrete Pipe (non- reinforced)	413	5.3	10	CIPP	Point repair @ 237' from 2301 for 10'
NN020159S	SM14	NN020159 [10.5]	NN020158 [10.7]	36	Fiberglass Reinforced Pipe	257	9.5	0	CIPP	
NN020193.01S	SM14	NN020193.01 [13.1]	NN020193 [-]	10	Concrete Pipe (non- reinforced)	191	9.7	0	CIPP	
NN022611S	SM14	NN022611 [-]	NN020193.01 [13.1]	10	Concrete Pipe (non- reinforced)	287	11.0	0	CIPP	
NN022612S	SM14	NN022612 [-]	NN022611 [-]	10	Concrete Pipe (non- reinforced)	423	10.0	0	CIPP	
NN021628.01S	SM16	NN021628.01 [-]	NN021628 [3.7]	8	Concrete Pipe (non- reinforced)	42	4.0	2	CIPP	Point repair @ 92' from 1628 for 10'
NN021629S	SM16	NN021629 [2.9]	NN021628 [3.7]	8	Concrete Pipe (non- reinforced)	94	3.6	0	CIPP	
NN020619S	SM17	NN020619 [9.2]	NN020618 [15.1]	10	Vitrified Clay Pipe	440	12.1	1	CIPP	
NN020620S	SM17	NN020620 [11.0]	NN020619 [9.2]	10	Vitrified Clay Pipe	239	9.9	0	CIPP	Point repair @ 72' from 0620 for 10'

Group 1 Rehab Project - CIPP Pipe Bid Schedule

Pipe ID	Sheet	US MH [Approx. Depth (ft)]	DS MH [Approx. Depth (ft)]	Diameter (in.)	Material	Approx. Repair Length (ft)	Approx. Repair Depth (ft)	Approx. # of Taps	Repair Method	Notes
NN020671S	SM17	NN020671 [Dead End]	NN020668 [10.1]	8	Concrete Pipe (non-reinforced)	386	10.0	1	CIPP	Point repair @ 42' from 0668 for 10'
NN021962S	SM17	NN021962 [9.8]	NN021961 [13.0]	8	Vitrified Clay Pipe	See Notes	11.4	8	Point Repair Only	Point repair @ 127' from 1962 for 10'
NN020623S	SM18	NN020623 [-]	NN020622 [-]	10	Vitrified Clay Pipe	598	12.0	0	CIPP	
NN020624S	SM18	NN020624 [11.0]	NN020623 [-]	10	Vitrified Clay Pipe	35	11.5	0	CIPP	
NN020625S	SM18	NN020625 [14.9]	NN020624 [11.0]	10	Vitrified Clay Pipe	401	12.0	0	CIPP	
NN020640S	SM19	NN020640 [8.6]	NN020639 [9.7]	8	Concrete Pipe (non-reinforced)	466	8.8	0	CIPP	
NN021021S	SM19	NN021021 [14.2]	NN020641 [9.8]	8	Concrete Pipe (non-reinforced)	901	12.1	0	CIPP	Tap replacement @ 109' from 1021 for 10', point repair @ 442' from 1021 for 10'
NN023141S	SN08	NN023141 [7.5]	NN023140 [-]	15	Vitrified Clay Pipe	338	7.5	5	CIPP	
NN023142S	SN08	NN023142 [7.7]	NN023141 [7.5]	15	Vitrified Clay Pipe	See Notes	7.6	1	Point Repair Only	Point repair @ 11' from 3142 for 10'
NN022740S	SN11	NN022740 [10.1]	NN022397 [16.0]	8	Vitrified Clay Pipe	260	12.6	4	CIPP	
NN020184S	SN12	NN020184 [5.8]	NN020183 [7.3]	27	Vitrified Clay Pipe	421	5.9	0	CIPP	
NN020189S	SN13	NN020189 [15.8]	NN020188 [11.7]	24	Vitrified Clay Pipe	482	12.3	0	CIPP	
NN022653S	SN13	NN022653 [7.3]	NN020186.01 [5.6]	8	Concrete Pipe (non-reinforced)	429	6.6	15	CIPP	Point repair @ 360' from 2653 for 20'
NN022613S	SN15	NN022613 [13.0]	NN022612 [-]	10	Concrete Pipe (non-reinforced)	388	13.3	0	CIPP	
NN021512S	SN16	NN021512 [20.2]	NN021511 [15.5]	8	Concrete Pipe (non-reinforced)	138	18.1	0	CIPP	Point repair @ 129' from 1511 for 10'
NN021891S	SN17	NN021891 [9.2]	NN021890 [9.5]	8	Vitrified Clay Pipe	See Notes	9.9	4	Point Repair Only	Point repair @ 110' from 1891 for 10'

Group 1 Rehab Project - CIPP Pipe Bid Schedule

Pipe ID	Sheet	US MH [Approx. Depth (ft)]	DS MH [Approx. Depth (ft)]	Diameter (in.)	Material	Approx. Repair Length (ft)	Approx. Repair Depth (ft)	Approx. # of Taps	Repair Method	Notes
NN021905S	SN17	NN021905 [12.8]	NN021891.01 [9.3]	8	Vitrified Clay Pipe	See Notes	11.5	2	Point Repair Only	Point repair @ 143' from 1905 for 10'
NN021950S	SN17	NN021950 [7.7]	NN021905 [12.8]	8	Concrete Pipe (non- reinforced)	448	10.0	17	CIPP	Point repair @ 58' from 1950 for 15', point repair @ 297' from 1950 for 10'
NN021960.01S	SN17	NN021960.01 [7.2]	NN021960 [8.2]	8	Concrete Pipe (non- reinforced)	298	7.8	9	CIPP	
NN021960S	SN17	NN021960 [8.2]	NN021900 [6.8]	8	Vitrified Clay Pipe	See Notes	7.5	6	CIPP	Point repair @ 228' from 1960 for 10'
NN022031S	SN17	NN022031 [11.8]	NN021890 [9.5]	8	Vitrified Clay Pipe	See Notes	10.8	4	Point Repair Only	Point repair @ 53' from 2031 for 10'
NN020643S	SN19	NN020643 [8.5]	NN020631 [11.9]	8	Concrete Pipe (non- reinforced)	451	9.9	2	CIPP	
NN021055S	SN19	NN021055 [18.5]	NN020634 [12.2]	10	Vitrified Clay Pipe	498	15.2	2	CIPP	Tap replacement @ 362' from 0634 for 10'
NN023315S	SO08	NN023315 [6.4]	NN023314 [5.0]	8	Concrete Pipe (non- reinforced)	See Notes	5.7	2	Point Repair Only	Point repair @ 6' from 3314 for 10', point repair @ 64' from 3315 for 15'
NN023398S	SO09	NN023398 [8.6]	NN023397 [9.4]	8	Concrete Pipe (non- reinforced)	305	9.0	0	CIPP	Point repair @ 71' from 3397 for 10'
NN020143S	SO11	NN020143 [12.3]	NN020141 [16.8]	36	Reinforced Concrete Pipe	128	13.2	0	CIPP	
NN021843S	SO18	NN021843 [5.2]	NN021842 [4.8]	8	Concrete Pipe (non- reinforced)	See Notes	5.1	2	Point Repair Only	Point repair @ 107' from 1843 for 10'
NN023180S	SP07	NN023180 [9.7]	NN023179 [8.8]	8	Concrete Pipe (non- reinforced)	394	9.3	0	CIPP	Point repair @ 25' from 3179 for 10', point repair @ 230' from 3179 for 10'
NN023178S	SP08	NN023178 [8.6]	NN023177 [-]	8	Concrete Pipe (non- reinforced)	See Notes	8.6	0	Point Repair Only	Point repair @ 109' from 3177 for 10'
NN023130.01S	SP09	NN023130.01 [8.6]	NN023132 [10.1]	8	Vitrified Clay Pipe	42	9.2	0	CIPP	Point repair @ 35' from 3132 for 10'

Group 1 Rehab Project - CIPP Pipe Bid Schedule

Pipe ID	Sheet	US MH [Approx. Depth (ft.)]	DS MH [Approx. Depth (ft.)]	Diameter (in.)	Material	Approx. Repair Length (ft)	Approx. Repair Depth (ft)	Approx. # of Taps	Repair Method	Notes
NN023235S	SP09	NN023235 [8.9]	NN023195 [10.0]	6	Vitrified Clay Pipe	See Notes	9.5	0	Point Repair Only	Point repair @ 108' from 3195 for 10', point repair @ 204' from 3195 for 10', point repair @ 258' from 3195 for 10'
NN020137S	SP11	NN020137 [16.5]	NN020136 [15.1]	36	Reinforced Concrete Pipe	269	16.3	0	CIPP	
NN020138S	SP11	NN020138 [10.8]	NN020137 [16.5]	36	Reinforced Concrete Pipe	255	13.9	0	CIPP	
NN022426S	SP12	NN022426 [13.6]	NN022425 [-]	8	Concrete Pipe (non- reinforced)	185	12.6	0	CIPP	
NN021529.01S	SP16	NN021529.01 [7.7]	NN021529 [7.4]	8	Concrete Pipe (non- reinforced)	18	7.6	1	CIPP	
NN021529S	SP16	NN021529 [7.4]	NN021528 [9.7]	8	Concrete Pipe (non- reinforced)	373	8.8	1	CIPP	Point repair @ 6' from 1529 for 10'
NN010746S	SQ01	NN010746 [6.2]	NN010745 [-]	6	Vitrified Clay Pipe	See Notes	6.3	2	Point Repair Only	Point repair @ 87' from 0746 for 10'
NN023633S	SQ02	NN023633 [8.3]	NN023629 [6.6]	8	Concrete Pipe	398	7.5	1	CIPP	Tap replacement @ 19' from 3629 for 15'
NN023326S	SQ09	NN023326 [10.1]	NN023325 [9.8]	8	Vitrified Clay Pipe	507	10.1	13	CIPP	Point repair @ 260' from 3325 for 10', point repair @ 366' from 3325 for 10', point repair @ 403' from 3325 for 10', point repair @ 427' from 3325 for 20'
NN021534S	SQ15	NN021534 [9.3]	NN021533 [9.1]	8	Concrete Pipe (non- reinforced)	196	9.5	0	CIPP	
NN021530S	SQ16	NN021530 [7.1]	NN021529.01 [7.7]	8	Concrete Pipe (non- reinforced)	466	7.4	0	CIPP	Point repair @ 1' from 1530 for 10'
NN021531S	SQ16	NN021531 [7.1]	NN021530 [7.1]	8	Concrete Pipe (non- reinforced)	198	7.2	0	CIPP	
NN021532S	SQ16	NN021532 [14.4]	NN021531 [7.1]	8	Concrete Pipe (non- reinforced)	228	10.8	0	CIPP	

Group 1 Rehab Project - CIPP Pipe Bid Schedule

Pipe ID	Sheet	US MH [Approx. Depth (ft.)]	DS MH [Approx. Depth (ft.)]	Diameter (in.)	Material	Approx. Repair Length (ft)	Approx. Repair Depth (ft)	Approx. # of Taps	Repair Method	Notes
NN021657S	SQ16	NN021657 [9.5]	NN021647 [6.6]	8	Concrete Pipe (non-reinforced)	440	8.3	5	CIPP	
NN021809S	SQ19	NN021809 [19.5]	NN021808 [19.1]	12	Vitrified Clay Pipe	See Notes	19.4	2	Point Repair Only	Point repair @ 77' from 1809 for 10'
NN010732S	SR01	NN010732 [14.1]	NN010731 [12.6]	8	Vitrified Clay Pipe	362	13.4	4	CIPP	
NN010735S	SR01	NN010735 [Dead End]	NN010721 [9.7]	6	Vitrified Clay Pipe	See Notes	9.9	3	Point Repair Only	Point repair @ 100' from 0721 for 10', point repair @ 141' from 0721 for 10', point repair @ 199' from 0721 for 20'
NN023668S	SS02	NN023668 [6.1]	NN023667 [6.5]	6	Vitrified Clay Pipe	See Notes	6.3	0	Point Repair Only	Point repair @ 147' from 3668 for 20'
NN023537S	SS03	NN023537 [7.7]	NN023536 [7.4]	8	Concrete Pipe	See Notes	7.6	1	Point Repair Only	Point repair @ 76' from 3537 for 10', point repair @ 267' from 3537 for 10', point repair @ 48' from 3536 for 10'
NN023782S	SS03	NN023782 [Dead End]	NN023660 [13.9]	8	Vitrified Clay Pipe	See Notes	13.9	1	Point Repair Only	Point repair @ 50' from 3660 for 10'
NN023943S	SS07	NN023943 [7.6]	NN023942 [6.1]	10	Concrete Pipe (non-reinforced)	197	6.9	0	CIPP	
NN010747S	ST02	NN010747 [5.4]	NN010717 [16.0]	8	Vitrified Clay Pipe	721	10.8	13	CIPP	
NN010754S	ST02	NN010754 [Dead End]	NN010747 [5.4]	6	Concrete Pipe (non-reinforced)	See Notes	5.5	8	Point Repair Only	Point repair @ 141' from 0747 for 20', point repair @ 206' from 0747 for 20'
NN023755S	ST04	NN023755 [-.-]	NN023540 [12.2]	8	Concrete Pipe (non-reinforced) and VCP	386	12.1	4	CIPP	Point repair @ 338' from 3755 for 10'
NN023961S	ST07	NN023961 [Dead End]	NN023960 [7.2]	8	Concrete Pipe (non-reinforced)	See Notes	7.2	6	Point Repair Only	Point repair @ 101' from 3960 for 10'
NN024024S	ST07	NN024024 [Dead End]	NN024023 [5.9]	8	Concrete Pipe (non-reinforced)	See Notes	5.9	0	Point Repair Only	Point repair @ 35' from 4023 for 10'
NN024059.01S	ST07	NN024059.01 [4.2]	NN024059 [4.3]	10	Vitrified Clay Pipe	147	4.4	0	CIPP	

Group 1 Rehab Project - CIPP Pipe Bid Schedule

Pipe ID	Sheet	US MH [Approx. Depth (ft)]	DS MH [Approx. Depth (ft)]	Diameter (in.)	Material	Approx. Repair Length (ft)	Approx. Repair Depth (ft)	Approx. # of Taps	Repair Method	Notes
NN010104S	SU01	NN010104 [16.3]	NN010103 [8.0]	18	Vitrified Clay Pipe	493	12.5	1	CIPP	Point repair @ 19' from 0104 for 10'
NN023606S	SU05	NN023606 [8.1]	NN023605 [9.8]	10	Concrete Pipe	374	9.0	2	CIPP	
NN024059S	SU07	NN024059 [4.3]	NN023938 [15.6]	12	Vitrified Clay Pipe	See Notes	9.9	0	Point Repair Only	Point repair @ 3' from 4059 for 20'