

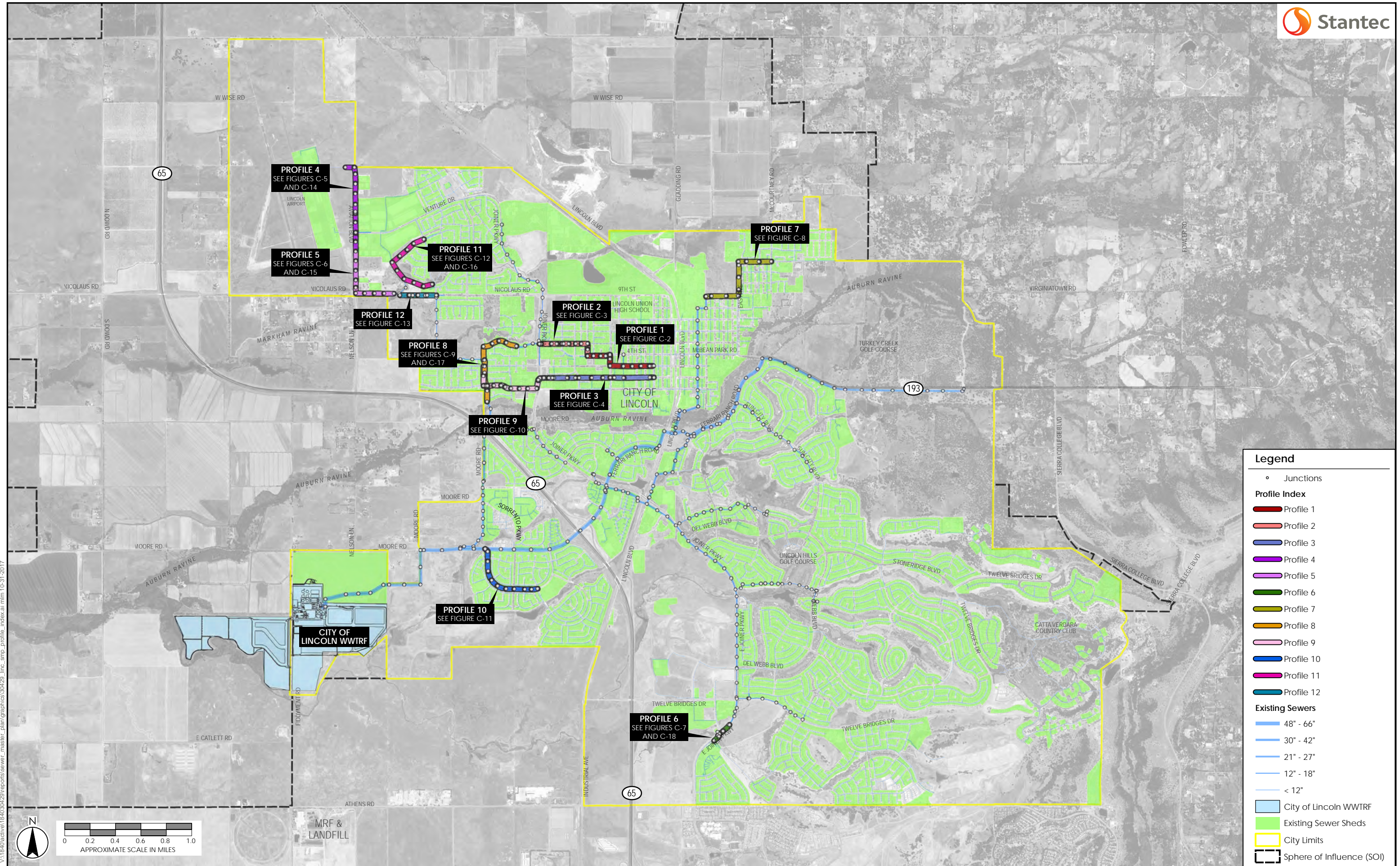
Appendix C HGL PROFILES

CITY OF LINCOLN – WASTEWATER COLLECTION SYSTEM MASTER PLAN

Appendix C HGL Profiles
May 16, 2018

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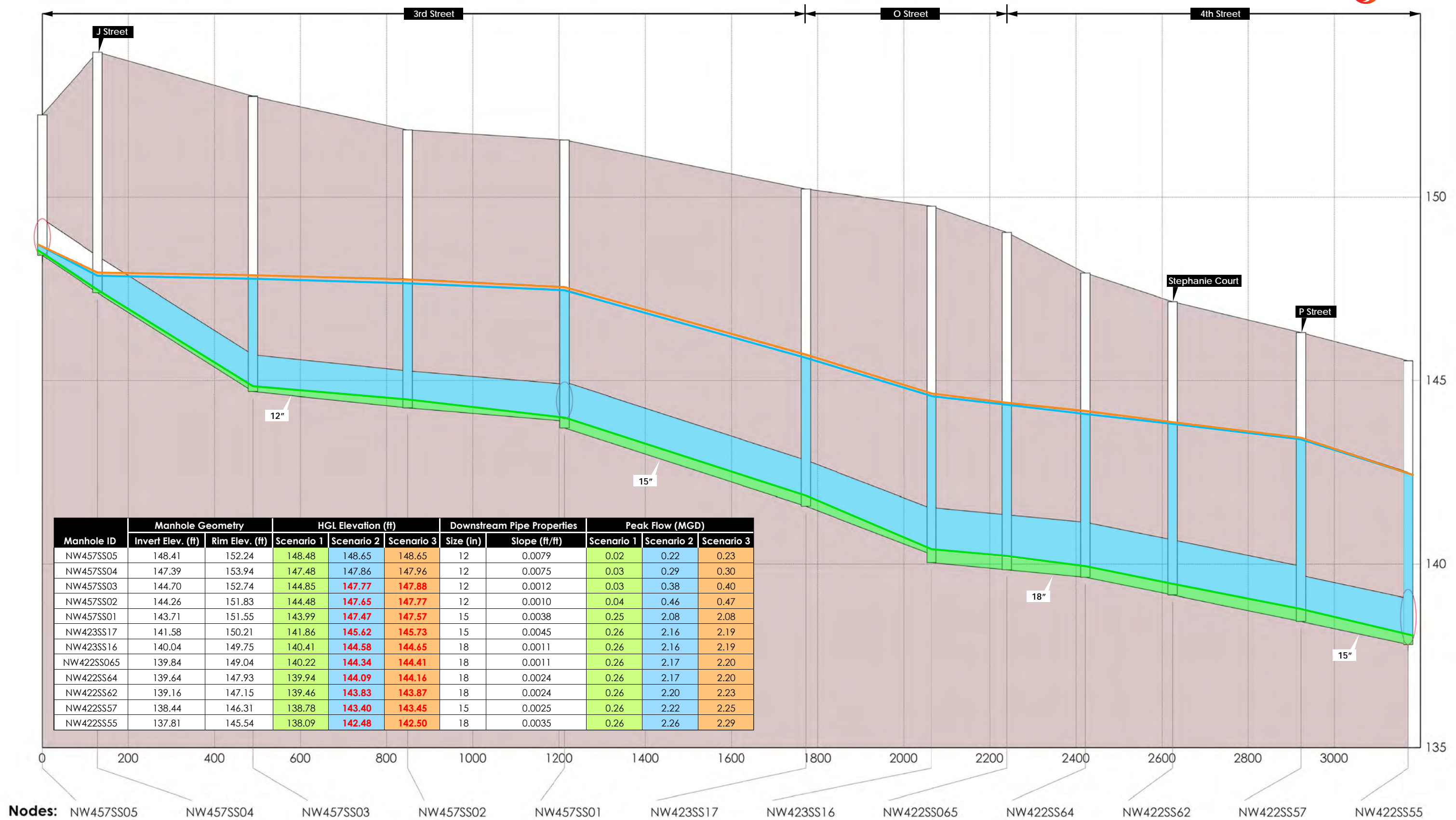
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Legend

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- 30" - 42"
- 21" - 27"
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- < 12"
- City of Lincoln WWTRF
- Existing Sewer Sheds
- City Limits
- Sphere of Influence (SOI)

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Manhole ID	Manhole Geometry		HGL Elevation (ft)			Downstream Pipe Properties		Peak Flow (MGD)		
	Invert Elev. (ft)	Rim Elev. (ft)	Scenario 1	Scenario 2	Scenario 3	Size (in)	Slope (ft/ft)	Scenario 1	Scenario 2	Scenario 3
NW457SS05	148.41	152.24	148.48	148.65	148.65	12	0.0079	0.02	0.22	0.23
NW457SS04	147.39	153.94	147.48	147.86	147.96	12	0.0075	0.03	0.29	0.30
NW457SS03	144.70	152.74	144.85	147.77	147.88	12	0.0012	0.03	0.38	0.40
NW457SS02	144.26	151.83	144.48	147.65	147.77	12	0.0010	0.04	0.46	0.47
NW457SS01	143.71	151.55	143.99	147.47	147.57	15	0.0038	0.25	2.08	2.08
NW423SS17	141.58	150.21	141.86	145.62	145.73	15	0.0045	0.26	2.16	2.19
NW423SS16	140.04	149.75	140.41	144.58	144.65	18	0.0011	0.26	2.16	2.19
NW422SS065	139.84	149.04	140.22	144.34	144.41	18	0.0011	0.26	2.17	2.20
NW422SS64	139.64	147.93	139.94	144.09	144.16	18	0.0024	0.26	2.17	2.20
NW422SS62	139.16	147.15	139.46	143.83	143.87	18	0.0024	0.26	2.20	2.23
NW422SS57	138.44	146.31	138.78	143.40	143.45	15	0.0025	0.26	2.22	2.25
NW422SS55	137.81	145.54	138.09	142.48	142.50	18	0.0035	0.26	2.26	2.29

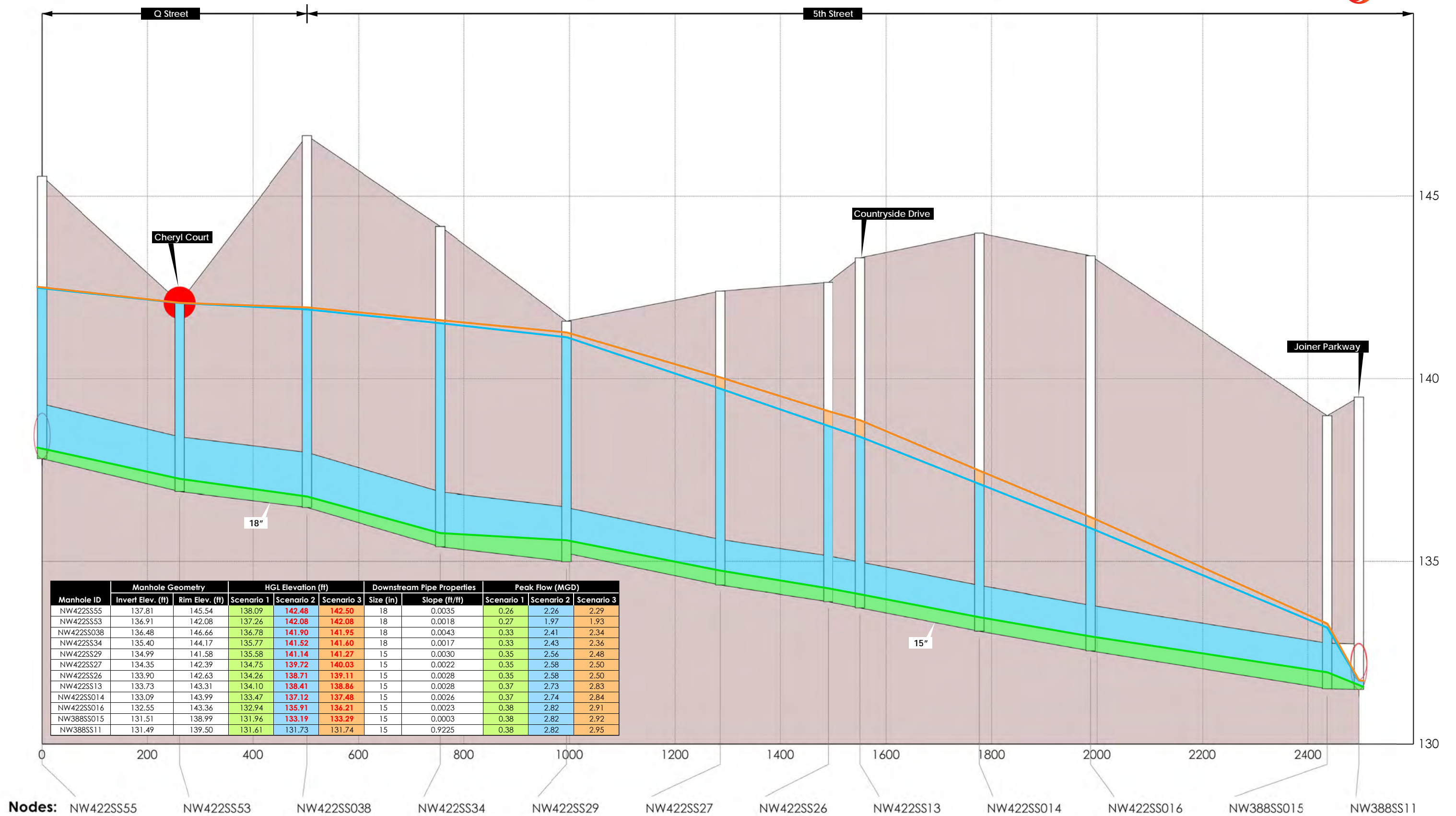
Nodes: NW457SS05 NW457SS04 NW457SS03 NW457SS02 NW457SS01 NW423SS17 NW423SS16 NW422SS065 NW422SS64 NW422SS62 NW422SS57 NW422SS55

LEGEND

Table	Profile		Table	Profile
XXX.XX		Scenario 1 - Existing Dry Weather Flow	XXX.XX	
XXX.XX		Scenario 2 - Existing Wet Weather Flow		Red Indicates Level of Service (LOS) Failures
				Scenario 3 - Buildout Of Existing Sewersheds

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Manhole ID	Manhole Geometry		HGL Elevation (ft)			Downstream Pipe Properties		Peak Flow (MGD)		
	Invert Elev. (ft)	Rim Elev. (ft)	Scenario 1	Scenario 2	Scenario 3	Size (in)	Slope (ft/ft)	Scenario 1	Scenario 2	Scenario 3
NW422SS55	137.81	145.54	138.09	142.48	142.50	18	0.0035	0.26	2.26	2.29
NW422SS53	136.91	142.08	137.26	142.08	142.08	18	0.0018	0.27	1.97	1.93
NW422SS038	136.48	146.66	136.78	141.90	141.95	18	0.0043	0.33	2.41	2.34
NW422SS34	135.40	144.17	135.77	141.52	141.60	18	0.0017	0.33	2.43	2.36
NW422SS29	134.99	141.58	135.58	141.14	141.27	15	0.0030	0.35	2.56	2.48
NW422SS27	134.35	142.39	134.75	139.72	140.03	15	0.0022	0.35	2.58	2.50
NW422SS26	133.90	142.63	134.26	138.71	139.11	15	0.0028	0.35	2.58	2.50
NW422SS13	133.73	143.31	134.10	138.41	138.86	15	0.0028	0.37	2.73	2.83
NW422SS014	133.09	143.99	133.47	137.12	137.48	15	0.0026	0.37	2.74	2.84
NW422SS016	132.55	143.36	132.94	135.91	136.21	15	0.0023	0.38	2.82	2.91
NW388SS015	131.51	138.99	131.96	133.19	133.29	15	0.0003	0.38	2.82	2.92
NW388SS11	131.49	139.50	131.61	131.73	131.74	15	0.9225	0.38	2.82	2.95

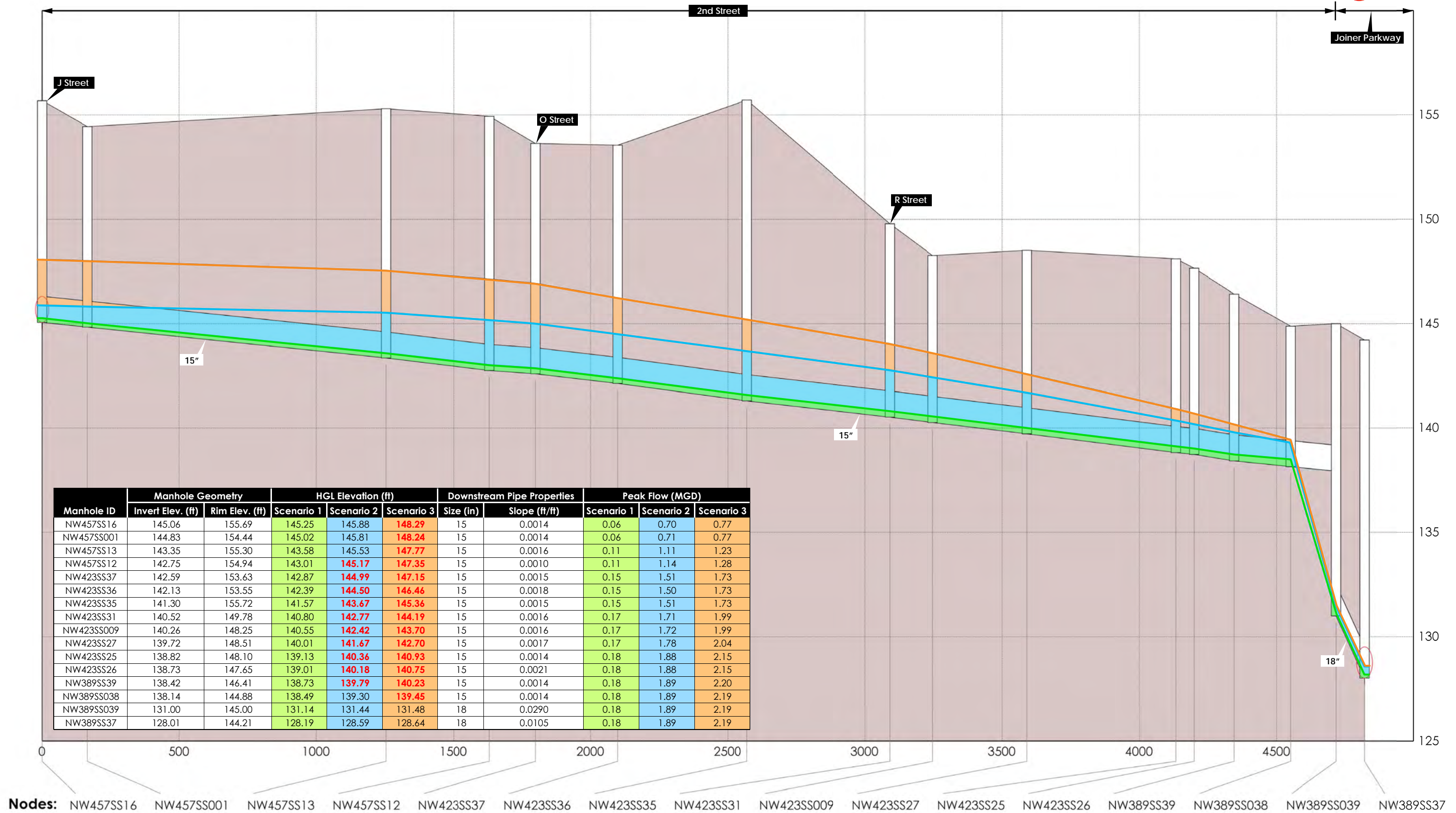
Nodes: NW422SS55 NW422SS53 NW422SS038 NW422SS34 NW422SS29 NW422SS27 NW422SS26 NW422SS13 NW422SS014 NW422SS016 NW388SS015 NW388SS11

LEGEND

Table	Profile	Scenario 1 - Existing Dry Weather Flow	Table	Profile	Scenario 3 - Buildout Of Existing Sewersheds
XXX.XX			XXX.XX		
XXX.XX					Red Indicates Level of Service (LOS) Failures

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Manhole ID	Manhole Geometry		HGL Elevation (ft)			Downstream Pipe Properties		Peak Flow (MGD)		
	Invert Elev. (ft)	Rim Elev. (ft)	Scenario 1	Scenario 2	Scenario 3	Size (in)	Slope (ft/ft)	Scenario 1	Scenario 2	Scenario 3
NW457SS16	145.06	155.69	145.25	145.88	148.29	15	0.0014	0.06	0.70	0.77
NW457SS001	144.83	154.44	145.02	145.81	148.24	15	0.0014	0.06	0.71	0.77
NW457SS13	143.35	155.30	143.58	145.53	147.77	15	0.0016	0.11	1.11	1.23
NW457SS12	142.75	154.94	143.01	145.17	147.35	15	0.0010	0.11	1.14	1.28
NW423SS37	142.59	153.63	142.87	144.99	147.15	15	0.0015	0.15	1.51	1.73
NW423SS36	142.13	153.55	142.39	144.50	146.46	15	0.0018	0.15	1.50	1.73
NW423SS35	141.30	155.72	141.57	143.67	145.36	15	0.0015	0.15	1.51	1.73
NW423SS31	140.52	149.78	140.80	142.77	144.19	15	0.0016	0.17	1.71	1.99
NW423SS009	140.26	148.25	140.55	142.42	143.70	15	0.0016	0.17	1.72	1.99
NW423SS27	139.72	148.51	140.01	141.67	142.70	15	0.0017	0.17	1.78	2.04
NW423SS25	138.82	148.10	139.13	140.36	140.93	15	0.0014	0.18	1.88	2.15
NW423SS26	138.73	147.65	139.01	140.18	140.75	15	0.0021	0.18	1.88	2.15
NW389SS39	138.42	146.41	138.73	139.79	140.23	15	0.0014	0.18	1.89	2.20
NW389SS038	138.14	144.88	138.49	139.30	139.45	15	0.0014	0.18	1.89	2.19
NW389SS039	131.00	145.00	131.14	131.44	131.48	18	0.0290	0.18	1.89	2.19
NW389SS37	128.01	144.21	128.19	128.59	128.64	18	0.0105	0.18	1.89	2.19

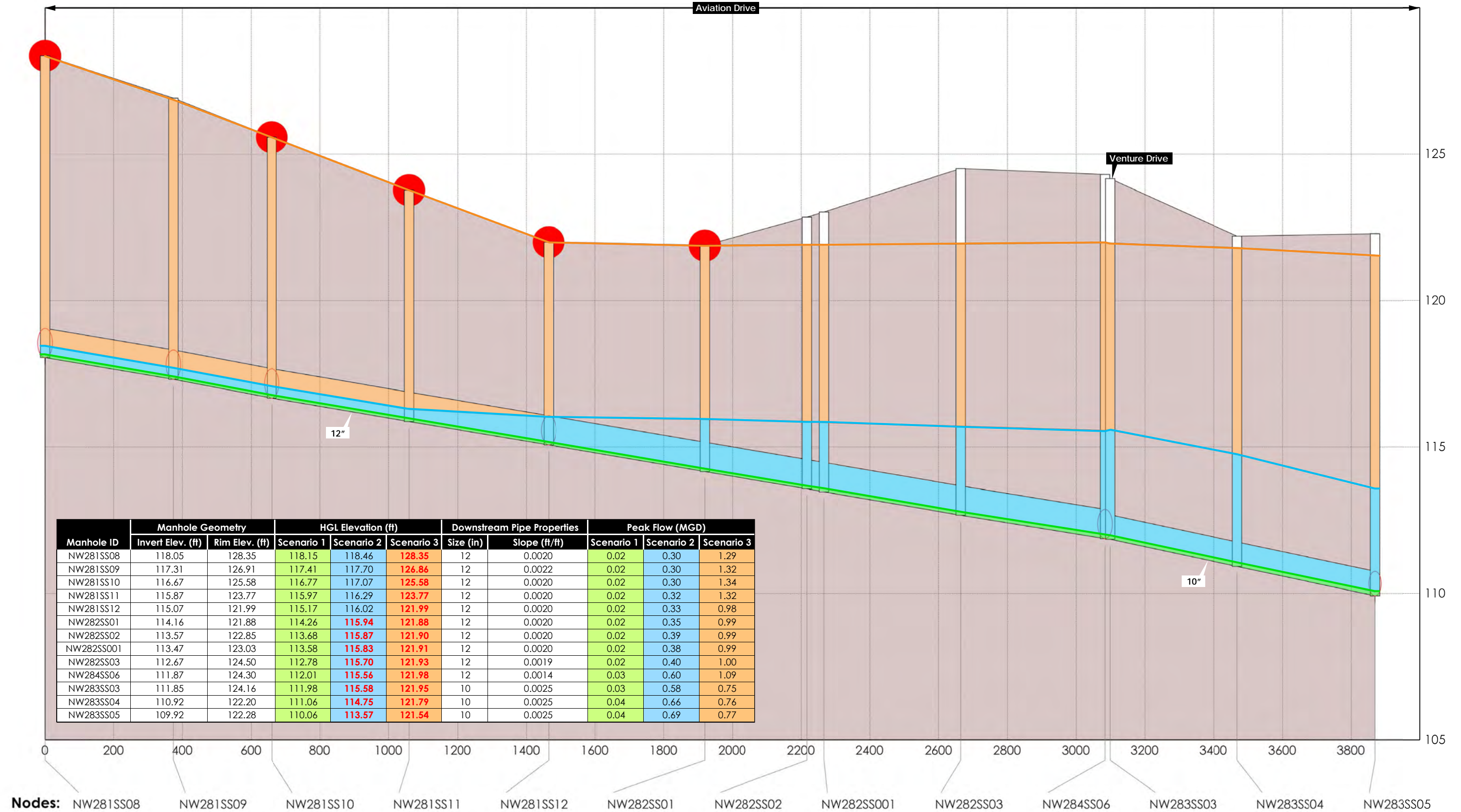
Nodes: NW457SS16 NW457SS001 NW457SS13 NW457SS12 NW423SS37 NW423SS36 NW423SS35 NW423SS31 NW423SS009 NW423SS27 NW423SS25 NW423SS26 NW389SS39 NW389SS038 NW389SS039 NW389SS37

LEGEND

Table	Profile	Scenario 1 - Existing Dry Weather Flow	Table	Profile	Scenario 3 - Buildout Of Existing Sewersheds
XXX.XX	Green Line		XXX.XX	Orange Line	
XXX.XX	Blue Line	Scenario 2 - Existing Wet Weather Flow			Red Indicates Level of Service (LOS) Failures

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Manhole ID	Manhole Geometry		HGL Elevation (ft)			Downstream Pipe Properties		Peak Flow (MGD)		
	Invert Elev. (ft)	Rim Elev. (ft)	Scenario 1	Scenario 2	Scenario 3	Size (in)	Slope (ft/ft)	Scenario 1	Scenario 2	Scenario 3
NW281SS08	118.05	128.35	118.15	118.46	128.35	12	0.0020	0.02	0.30	1.29
NW281SS09	117.31	126.91	117.41	117.70	126.86	12	0.0022	0.02	0.30	1.32
NW281SS10	116.67	125.58	116.77	117.07	125.58	12	0.0020	0.02	0.30	1.34
NW281SS11	115.87	123.77	115.97	116.29	123.77	12	0.0020	0.02	0.32	1.32
NW281SS12	115.07	121.99	115.17	116.02	121.99	12	0.0020	0.02	0.33	0.98
NW282SS01	114.16	121.88	114.26	115.94	121.88	12	0.0020	0.02	0.35	0.99
NW282SS02	113.57	122.85	113.68	115.87	121.90	12	0.0020	0.02	0.39	0.99
NW282SS001	113.47	123.03	113.58	115.83	121.91	12	0.0020	0.02	0.38	0.99
NW282SS03	112.67	124.50	112.78	115.70	121.93	12	0.0019	0.02	0.40	1.00
NW284SS06	111.87	124.30	112.01	115.56	121.98	12	0.0014	0.03	0.60	1.09
NW283SS03	111.85	124.16	111.98	115.58	121.95	10	0.0025	0.03	0.58	0.75
NW283SS04	110.92	122.20	111.06	114.75	121.79	10	0.0025	0.04	0.66	0.76
NW283SS05	109.92	122.28	110.06	113.57	121.54	10	0.0025	0.04	0.69	0.77

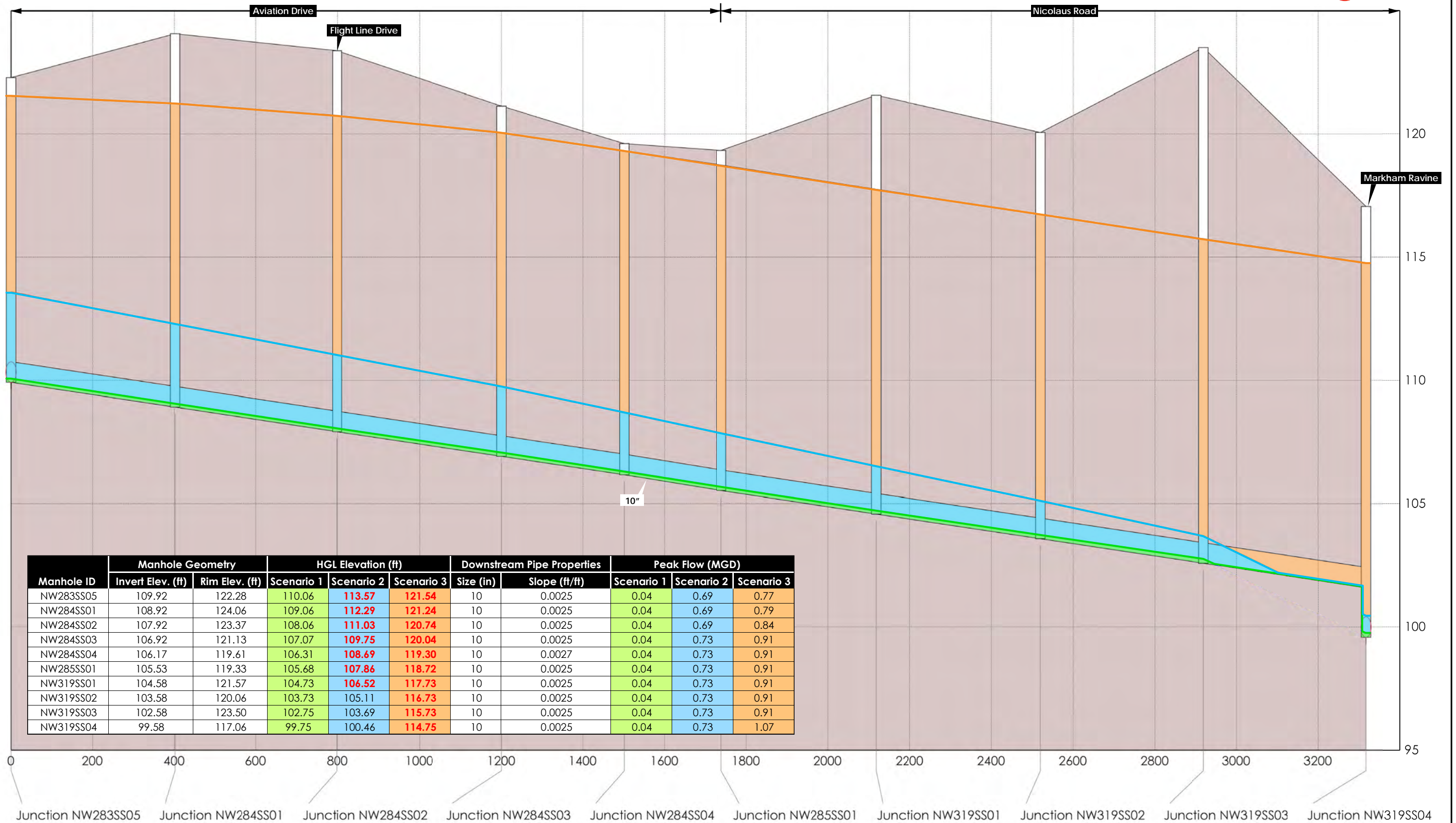
Nodes: NW281SS08 NW281SS09 NW281SS10 NW281SS11 NW281SS12 NW282SS01 NW282SS02 NW282SS001 NW282SS03 NW284SS06 NW283SS03 NW283SS04 NW283SS05

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Table	Profile	Scenario 1 - Existing Dry Weather Flow	Table	Profile	Scenario 3 - Buildout Of Existing Sewersheds
XXX.XX	—		XXX.XX	—	
XXX.XX	—			—	
					Red Indicates Level of Service (LOS) Failures

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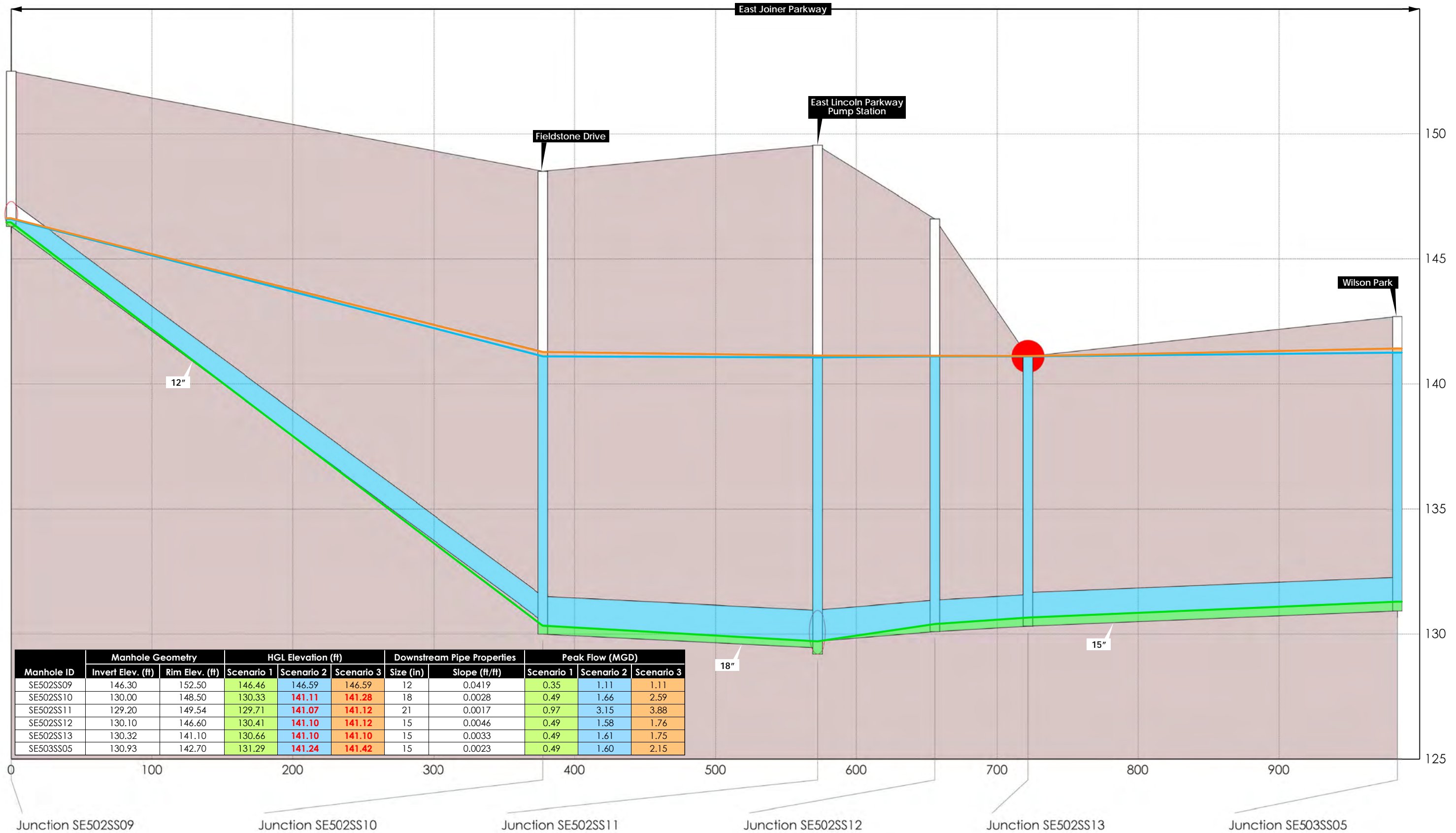


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Table	Profile	Table	Profile
XXX.XX	Scenario 1 - Existing Dry Weather Flow	XXX.XX	Scenario 3 - Buildout Of Existing Sewersheds
XXX.XX	Scenario 2 - Existing Wet Weather Flow		Red Indicates Level of Service (LOS) Failures

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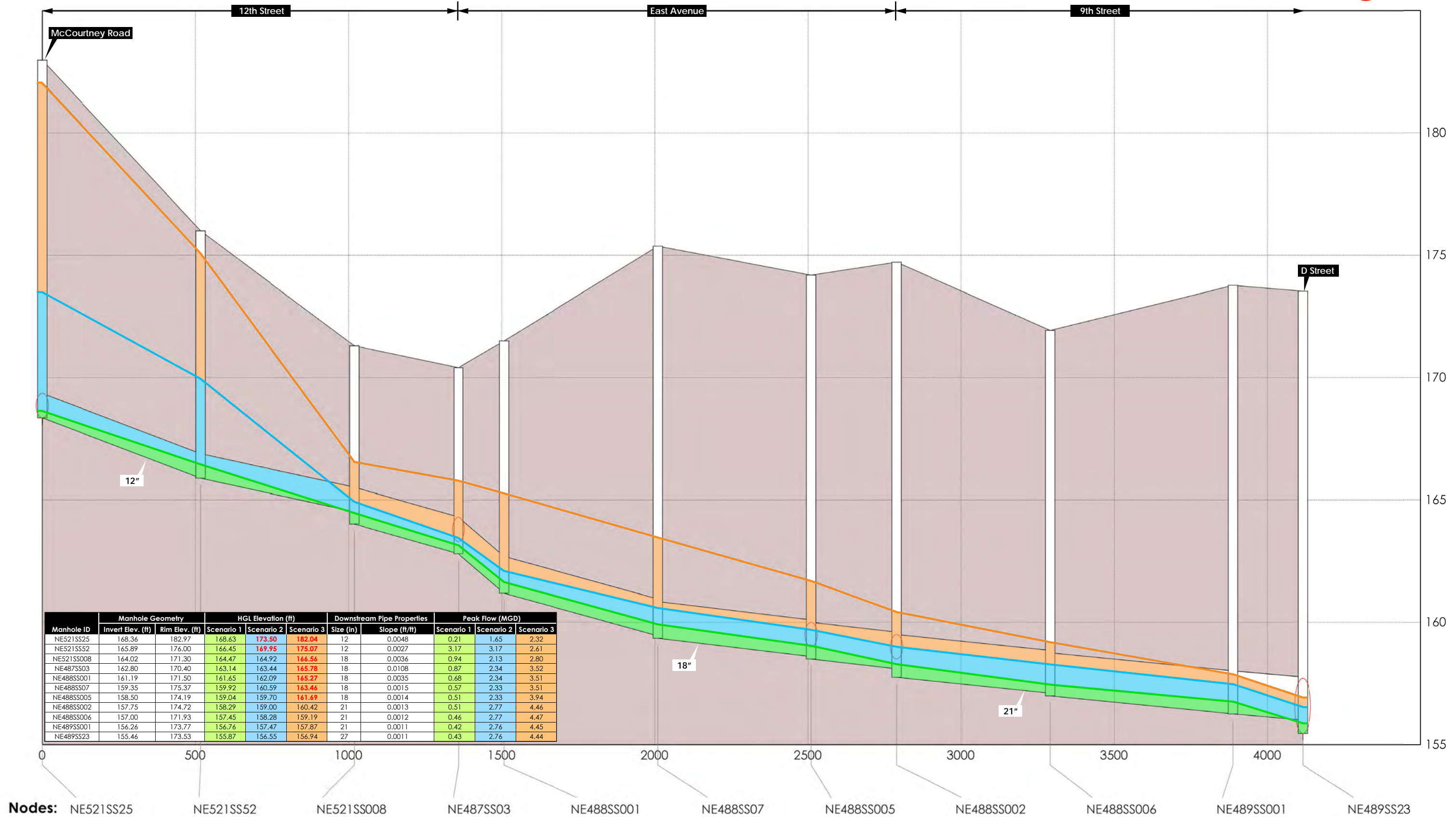
Manhole ID	Manhole Geometry		HGL Elevation (ft)			Downstream Pipe Properties		Peak Flow (MGD)		
	Invert Elev. (ft)	Rim Elev. (ft)	Scenario 1	Scenario 2	Scenario 3	Size (in)	Slope (ft/ft)	Scenario 1	Scenario 2	Scenario 3
SE502SS09	146.30	152.50	146.46	146.59	146.59	12	0.0419	0.35	1.11	1.11
SE502SS10	130.00	148.50	130.33	141.11	141.28	18	0.0028	0.49	1.66	2.59
SE502SS11	129.20	149.54	129.71	141.07	141.12	21	0.0017	0.97	3.15	3.88
SE502SS12	130.10	146.60	130.41	141.10	141.12	15	0.0046	0.49	1.58	1.76
SE502SS13	130.32	141.10	130.66	141.10	141.10	15	0.0033	0.49	1.61	1.75
SE503SS05	130.93	142.70	131.29	141.24	141.42	15	0.0023	0.49	1.60	2.15

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Table	Profile	Scenario 1 - Existing Dry Weather Flow	Table	Profile	Scenario 3 - Buildout Of Existing Sewersheds
XXX.XX	—		XXX.XX	—	
XXX.XX	—			—	
					Red Indicates Level of Service (LOS) Failures

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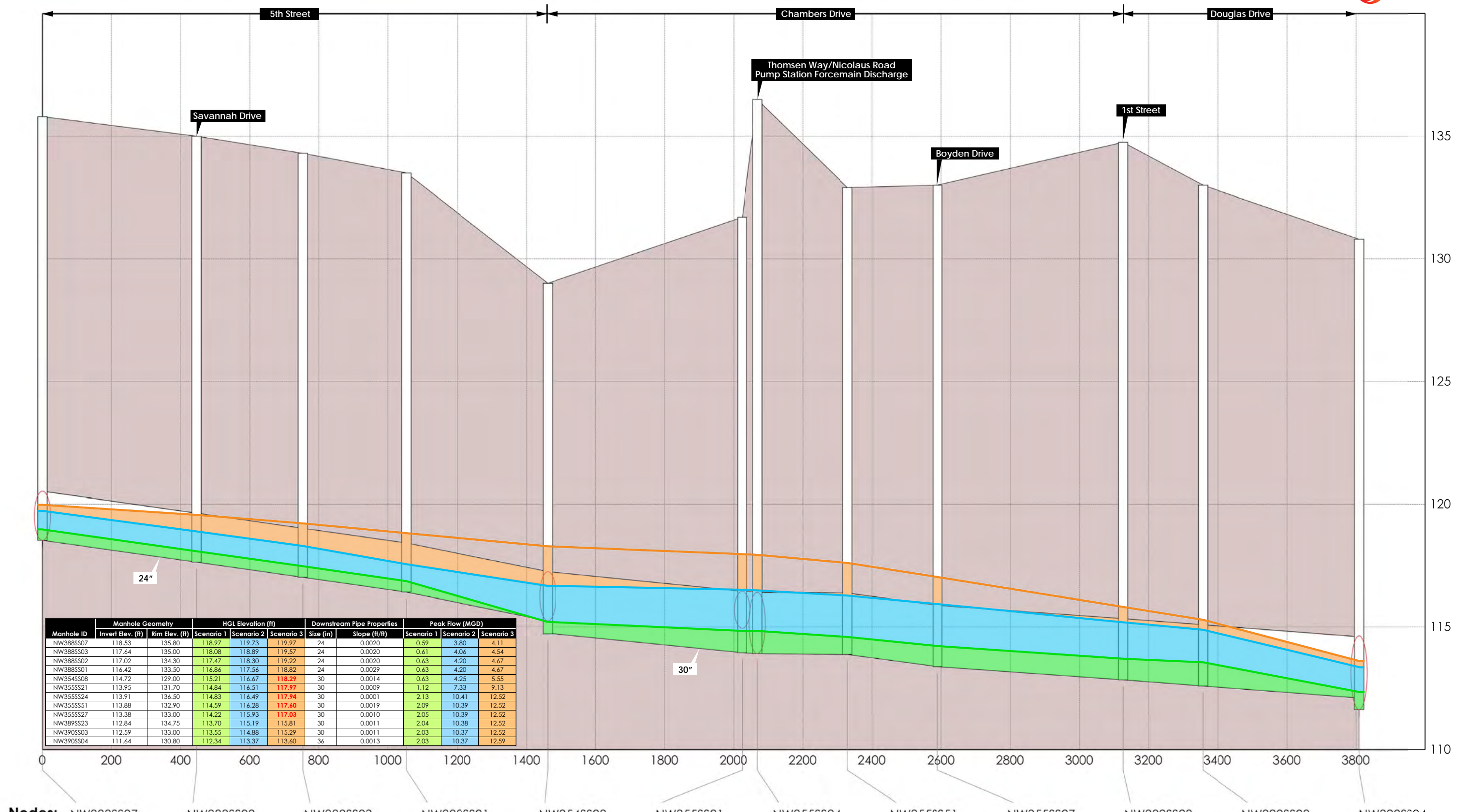
Manhole ID	Manhole Geometry		HGL Elevation (ft)			Downstream Pipe Properties		Peak Flow (MGD)		
	Invert Elev. (ft)	Rim Elev. (ft)	Scenario 1	Scenario 2	Scenario 3	Size (in)	Slope (ft/ft)	Scenario 1	Scenario 2	Scenario 3
NE521SS25	168.36	182.97	168.63	173.50	182.04	12	0.0048	0.21	1.65	2.32
NE521SS52	165.89	176.00	166.45	169.95	175.07	12	0.0027	3.17	3.17	2.61
NE521SS008	164.02	171.30	164.47	164.92	166.56	18	0.0036	0.94	2.13	2.80
NE487SS03	162.80	170.40	163.14	163.44	165.78	18	0.0108	0.87	2.34	3.52
NE488SS001	161.19	171.50	161.65	162.09	165.27	18	0.0035	0.68	2.34	3.51
NE488SS007	159.35	175.37	159.92	160.59	163.46	18	0.0015	0.57	2.33	3.51
NE488SS005	158.50	174.19	159.04	159.70	161.69	18	0.0014	0.51	2.33	3.94
NE488SS002	157.75	174.72	158.29	159.00	160.42	21	0.0013	0.51	2.77	4.46
NE488SS006	157.00	171.93	157.45	158.28	159.19	21	0.0012	0.46	2.77	4.47
NE489SS001	156.26	173.77	156.76	157.47	157.87	21	0.0011	0.42	2.76	4.45
NE489SS23	155.46	173.53	155.87	156.55	156.94	27	0.0011	0.43	2.76	4.44

Nodes: NE521SS25 NE521SS52 NE521SS008 NE487SS03 NE488SS001 NE488SS007 NE488SS005 NE488SS002 NE488SS006 NE489SS001 NE489SS23

LEGEND

Table	Profile	Table	Profile
XXX.XX	Scenario 1 - Existing Dry Weather Flow	XXX.XX	Scenario 3 - Buildout Of Existing Sewersheds
XXX.XX	Scenario 2 - Existing Wet Weather Flow		Red Indicates Level of Service (LOS) Failures

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Manhole ID	Manhole Geometry		HGL Elevation (ft)			Downstream Pipe Properties		Peak Flow (MGD)		
	Invert Elev. (ft)	Rim Elev. (ft)	Scenario 1	Scenario 2	Scenario 3	Size (in)	Slope (ft/ft)	Scenario 1	Scenario 2	Scenario 3
NW388SS07	118.53	135.80	118.97	119.73	119.97	24	0.0020	0.59	3.80	4.11
NW388SS03	117.64	135.00	118.08	118.89	119.57	24	0.0020	0.61	4.06	4.54
NW388SS02	117.02	134.30	117.47	118.30	119.22	24	0.0020	0.63	4.20	4.67
NW388SS01	116.42	133.50	116.86	117.56	118.82	24	0.0029	0.63	4.20	4.67
NW354SS08	114.72	129.00	115.21	116.67	118.29	30	0.0014	0.63	4.25	5.55
NW355SS21	113.95	131.70	114.84	116.51	117.97	30	0.0009	1.12	7.33	9.13
NW355SS24	113.91	136.50	114.83	116.49	117.94	30	0.0001	2.13	10.41	12.52
NW355SS51	113.88	132.90	114.59	116.28	117.60	30	0.0019	2.09	10.39	12.52
NW355SS27	113.38	133.00	114.22	115.93	117.03	30	0.0010	2.05	10.39	12.52
NW389SS23	112.84	134.75	113.70	115.19	115.81	30	0.0011	2.04	10.38	12.52
NW390SS03	112.59	133.00	113.55	114.88	115.29	30	0.0011	2.03	10.37	12.52
NW390SS04	111.64	130.80	112.34	113.37	113.60	36	0.0013	2.03	10.37	12.59

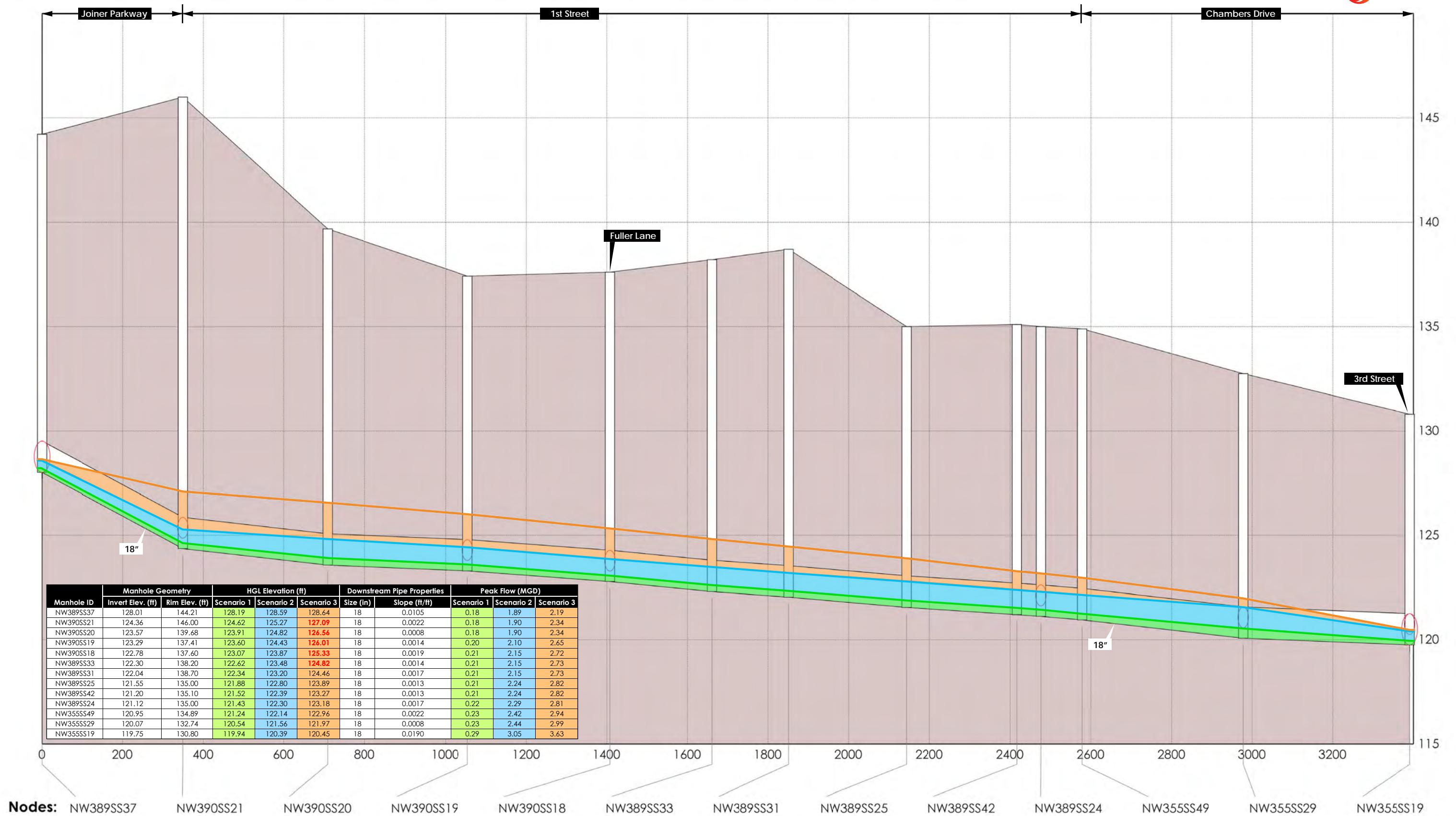
Nodes: NW388SS07 NW388SS03 NW388SS02 NW388SS01 NW354SS08 NW355SS21 NW355SS24 NW355SS51 NW355SS27 NW389SS23 NW390SS03 NW390SS04

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Table	Profile	Table	Profile
XXX.XX	Scenario 1 - Existing Dry Weather Flow	XXX.XX	Scenario 3 - Buildout Of Existing Sewersheds
XXX.XX	Scenario 2 - Existing Wet Weather Flow		Red Indicates Level of Service (LOS) Failures

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Manhole ID	Manhole Geometry		HGL Elevation (ft)			Downstream Pipe Properties		Peak Flow (MGD)		
	Invert Elev. (ft)	Rim Elev. (ft)	Scenario 1	Scenario 2	Scenario 3	Size (in)	Slope (ft/ft)	Scenario 1	Scenario 2	Scenario 3
NW389SS37	128.01	144.21	128.19	128.59	128.64	18	0.0105	0.18	1.89	2.19
NW390SS21	124.36	146.00	124.62	125.27	127.09	18	0.0022	0.18	1.90	2.34
NW390SS20	123.57	139.68	123.91	124.82	126.56	18	0.0008	0.18	1.90	2.34
NW390SS19	123.29	137.41	123.60	124.43	126.01	18	0.0014	0.20	2.10	2.65
NW390SS18	122.78	137.60	123.07	123.87	125.33	18	0.0019	0.21	2.15	2.72
NW389SS33	122.30	138.20	122.62	123.48	124.82	18	0.0014	0.21	2.15	2.73
NW389SS31	122.04	138.70	122.34	123.20	124.46	18	0.0017	0.21	2.15	2.73
NW389SS25	121.55	135.00	121.88	122.80	123.89	18	0.0013	0.21	2.24	2.82
NW389SS42	121.20	135.10	121.52	122.39	123.27	18	0.0013	0.21	2.24	2.82
NW389SS24	121.12	135.00	121.43	122.30	123.18	18	0.0017	0.22	2.29	2.81
NW355SS49	120.95	134.89	121.24	122.14	122.96	18	0.0022	0.23	2.42	2.94
NW355SS29	120.07	132.74	120.54	121.56	121.97	18	0.0008	0.23	2.44	2.99
NW355SS19	119.75	130.80	119.94	120.39	120.45	18	0.0190	0.29	3.05	3.63

Nodes: NW389SS37 NW390SS21 NW390SS20 NW390SS19 NW390SS18 NW389SS33 NW389SS31 NW389SS25 NW389SS42 NW389SS24 NW355SS49 NW355SS29 NW355SS19

LEGEND

Table	Profile	Table	Profile
XXX.XX		XXX.XX	
XXX.XX			
	Scenario 1 - Existing Dry Weather Flow		Scenario 3 - Buildout Of Existing Sewersheds
	Scenario 2 - Existing Wet Weather Flow		Red Indicates Level of Service (LOS) Failures

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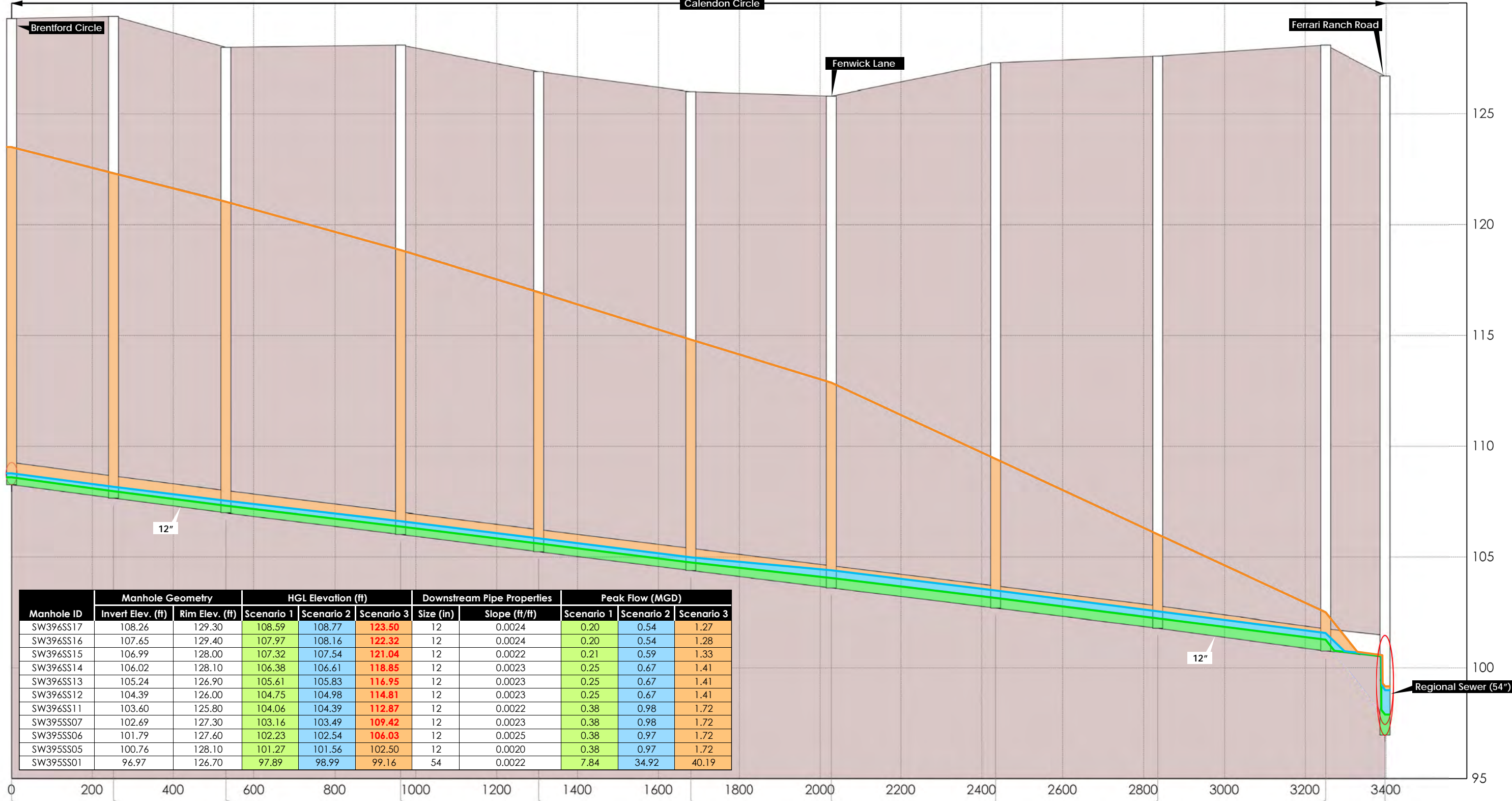


Calendon Circle

Brentford Circle

Fenwick Lane

Ferrari Ranch Road



Manhole ID	Manhole Geometry		HGL Elevation (ft)			Downstream Pipe Properties		Peak Flow (MGD)		
	Invert Elev. (ft)	Rim Elev. (ft)	Scenario 1	Scenario 2	Scenario 3	Size (in)	Slope (ft/ft)	Scenario 1	Scenario 2	Scenario 3
SW396SS17	108.26	129.30	108.59	108.77	123.50	12	0.0024	0.20	0.54	1.27
SW396SS16	107.65	129.40	107.97	108.16	122.32	12	0.0024	0.20	0.54	1.28
SW396SS15	106.99	128.00	107.32	107.54	121.04	12	0.0022	0.21	0.59	1.33
SW396SS14	106.02	128.10	106.38	106.61	118.85	12	0.0023	0.25	0.67	1.41
SW396SS13	105.24	126.90	105.61	105.83	116.95	12	0.0023	0.25	0.67	1.41
SW396SS12	104.39	126.00	104.75	104.98	114.81	12	0.0023	0.25	0.67	1.41
SW396SS11	103.60	125.80	104.06	104.39	112.87	12	0.0022	0.38	0.98	1.72
SW395SS07	102.69	127.30	103.16	103.49	109.42	12	0.0023	0.38	0.98	1.72
SW395SS06	101.79	127.60	102.23	102.54	106.03	12	0.0025	0.38	0.97	1.72
SW395SS05	100.76	128.10	101.27	101.56	102.50	12	0.0020	0.38	0.97	1.72
SW395SS01	96.97	126.70	97.89	98.99	99.16	54	0.0022	7.84	34.92	40.19

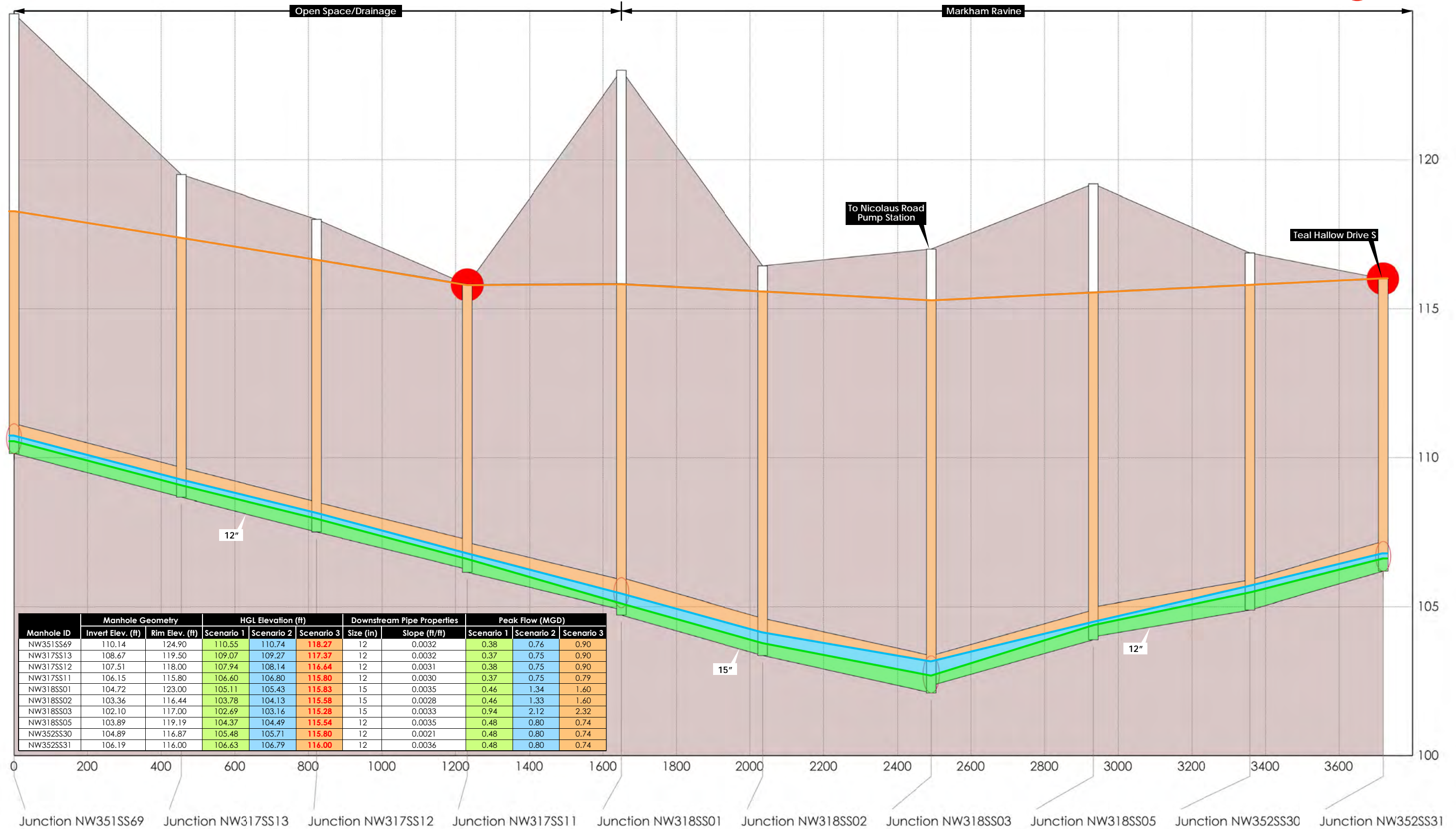
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LEGEND

Table	Profile	Scenario 1 - Existing Dry Weather Flow	Table	Profile	Scenario 3 - Buildout Of Existing Sewersheds
XXX.XX			XXX.XX		
XXX.XX					Red Indicates Level of Service (LOS) Failures

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Manhole ID	Manhole Geometry		HGL Elevation (ft)			Downstream Pipe Properties		Peak Flow (MGD)		
	Invert Elev. (ft)	Rim Elev. (ft)	Scenario 1	Scenario 2	Scenario 3	Size (in)	Slope (ft/ft)	Scenario 1	Scenario 2	Scenario 3
NW351SS69	110.14	124.90	110.55	110.74	118.27	12	0.0032	0.38	0.76	0.90
NW317SS13	108.67	119.50	109.07	109.27	117.37	12	0.0032	0.37	0.75	0.90
NW317SS12	107.51	118.00	107.94	108.14	116.64	12	0.0031	0.38	0.75	0.90
NW317SS11	106.15	115.80	106.60	106.80	115.80	12	0.0030	0.37	0.75	0.79
NW318SS01	104.72	123.00	105.11	105.43	115.83	15	0.0035	0.46	1.34	1.60
NW318SS02	103.36	116.44	103.78	104.13	115.58	15	0.0028	0.46	1.33	1.60
NW318SS03	102.10	117.00	102.69	103.16	115.28	15	0.0033	0.94	2.12	2.32
NW318SS05	103.89	119.19	104.37	104.49	115.54	12	0.0035	0.48	0.80	0.74
NW352SS30	104.89	116.87	105.48	105.71	115.80	12	0.0021	0.48	0.80	0.74
NW352SS31	106.19	116.00	106.63	106.79	116.00	12	0.0036	0.48	0.80	0.74

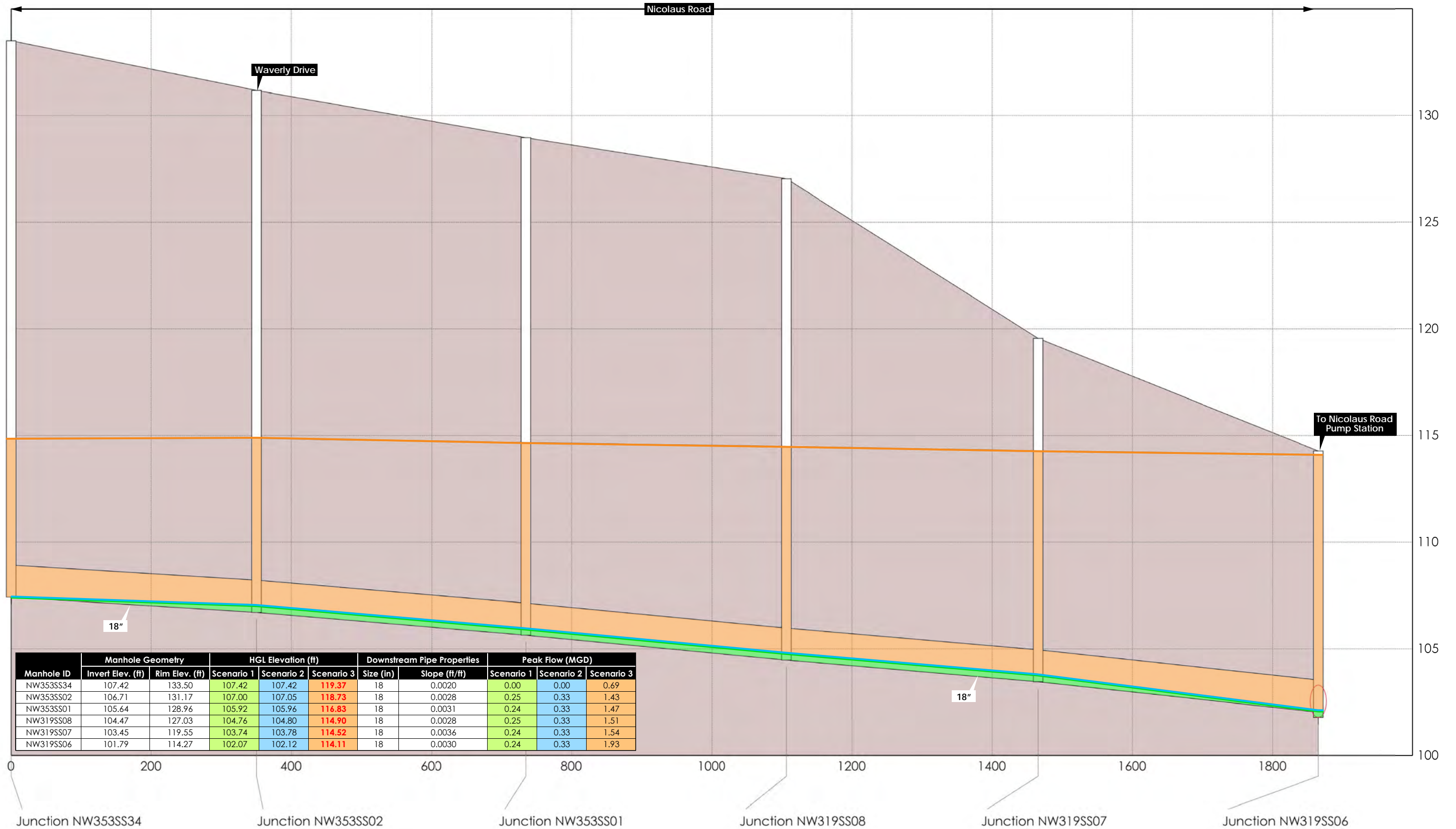
Junction NW351SS69 Junction NW317SS13 Junction NW317SS12 Junction NW317SS11 Junction NW318SS01 Junction NW318SS02 Junction NW318SS03 Junction NW318SS05 Junction NW352SS30 Junction NW352SS31

LEGEND

Table	Profile	Table	Profile
XXX.XX		XXX.XX	
XXX.XX			
	Scenario 1 - Existing Dry Weather Flow		Scenario 3 - Buildout Of Existing Sewersheds
	Scenario 2 - Existing Wet Weather Flow		Red Indicates Level of Service (LOS) Failures

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Manhole ID	Manhole Geometry		HGL Elevation (ft)			Downstream Pipe Properties		Peak Flow (MGD)		
	Invert Elev. (ft)	Rim Elev. (ft)	Scenario 1	Scenario 2	Scenario 3	Size (in)	Slope (ft/ft)	Scenario 1	Scenario 2	Scenario 3
NW353SS34	107.42	133.50	107.42	107.42	119.37	18	0.0020	0.00	0.00	0.69
NW353SS02	106.71	131.17	107.00	107.05	118.73	18	0.0028	0.25	0.33	1.43
NW353SS01	105.64	128.96	105.92	105.96	116.83	18	0.0031	0.24	0.33	1.47
NW319SS08	104.47	127.03	104.76	104.80	114.90	18	0.0028	0.25	0.33	1.51
NW319SS07	103.45	119.55	103.74	103.78	114.52	18	0.0036	0.24	0.33	1.54
NW319SS06	101.79	114.27	102.07	102.12	114.11	18	0.0030	0.24	0.33	1.93

Junction NW353SS34 01/01/2017 12:05AM Junction NW353SS02 01/08/2017 10:00PM Junction NW353SS01 01/08/2017 10:00PM Junction NW319SS08 01/08/2017 10:00PM Junction NW319SS07 Junction NW319SS06

LEGEND

Table	Profile	Scenario 1 - Existing Dry Weather Flow	Table	Profile	Scenario 3 - Buildout Of Existing Sewersheds
XXX.XX			XXX.XX		
XXX.XX		Scenario 2 - Existing Wet Weather Flow			Red Indicates Level of Service (LOS) Failures

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Aviation Drive

Venture Drive

12"

10"

Manhole ID	Manhole Geometry		Scenario 3		Downstream Pipe Properties		Scenario 3	
	Invert Elev. (ft)	Rim Elev. (ft)	Scenario 3	Scenario 3/ Improvements	Size (in)	Slope (ft/ft)	Scenario 3	Scenario 3/ Improvements
NW281SS08	118.05	128.35	128.35	128.35	12	0.0020	1.29	1.29
NW281SS09	117.31	126.91	126.86	126.85	12	0.0022	1.32	1.32
NW281SS10	116.67	125.58	125.58	125.58	12	0.0020	1.34	1.34
NW281SS11	115.87	123.77	123.77	123.77	12	0.0020	1.32	1.32
NW281SS12	115.07	121.99	121.99	121.99	12	0.0020	0.98	0.98
NW282SS01	114.16	121.88	121.88	121.88	12	0.0020	0.99	0.98
NW282SS02	113.57	122.85	121.90	121.83	12	0.0020	0.99	0.99
NW282SS001	113.47	123.03	121.91	121.81	12	0.0020	0.99	0.99
NW282SS03	112.67	124.50	121.93	121.72	12	0.0019	1.00	0.99
NW284SS06	111.87	124.30	121.98	121.62	12	0.0014	1.09	0.89
NW283SS03	111.85	124.16	121.95	121.63	10	0.0025	0.75	0.74
NW283SS04	110.92	122.20	121.79	120.82	10	0.0025	0.76	0.75
NW283SS05	109.92	122.28	121.54	119.66	10	0.0025	0.77	0.76

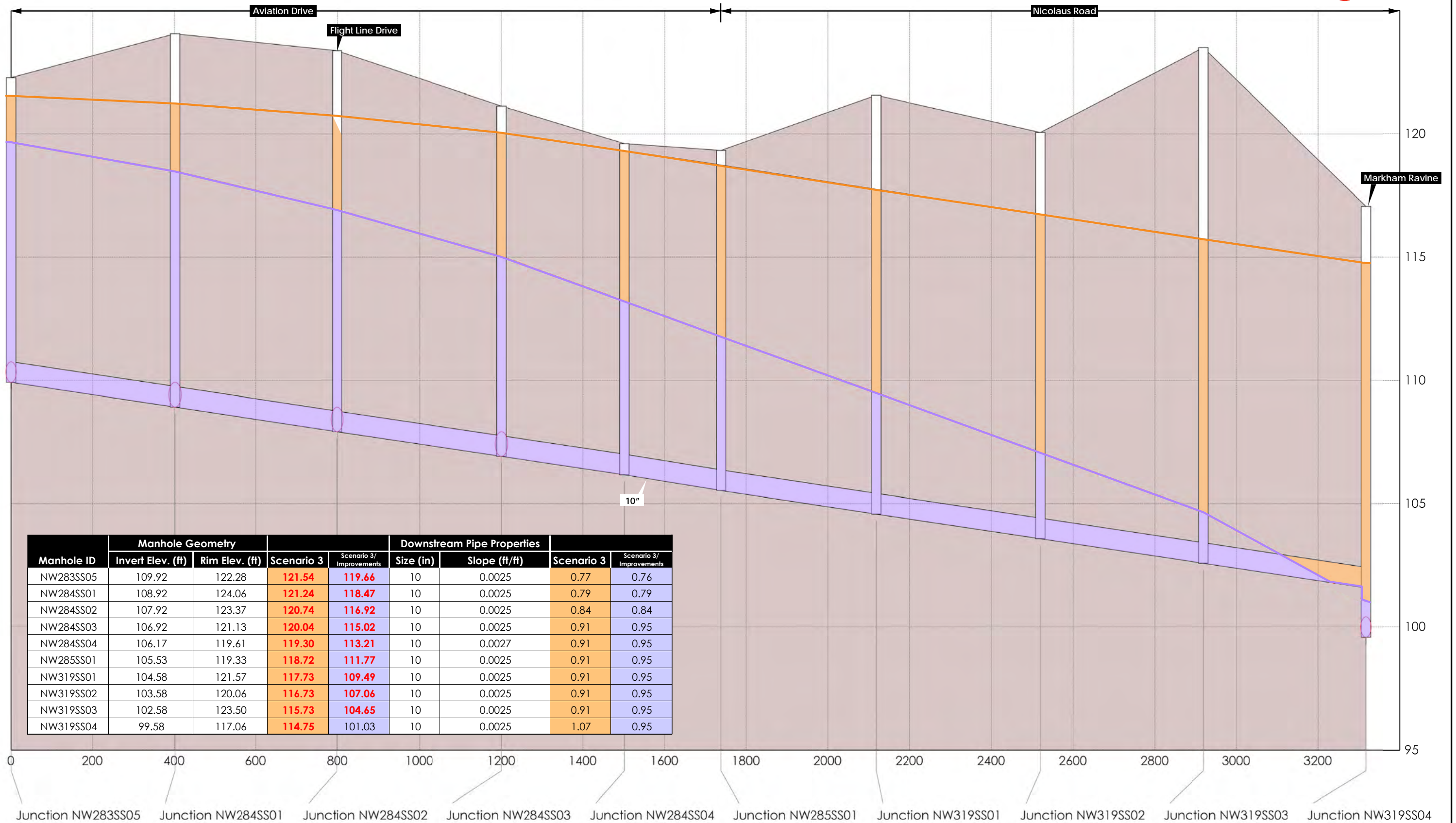
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LEGEND

Table	Profile	Table	Profile
XXX.XX	Scenario 3 - Buildout Of Existing Sewersheds with NRPS Capacity Improvements	XXX.XX	Scenario 3 - Buildout Of Existing Sewersheds
			Red Indicates Level of Service (LOS) Failures

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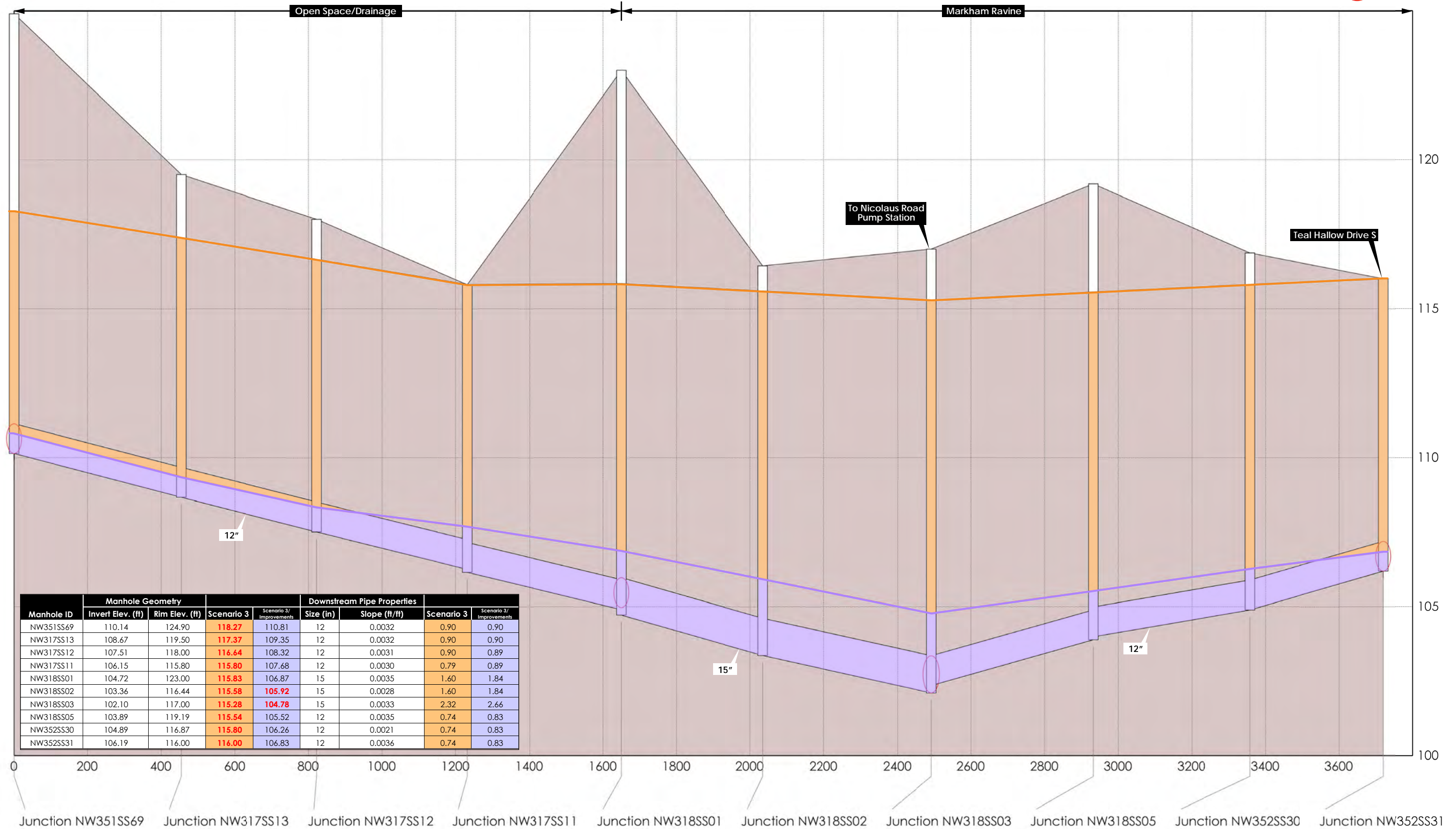
Manhole ID	Manhole Geometry		Scenario 3		Downstream Pipe Properties		Scenario 3	
	Invert Elev. (ft)	Rim Elev. (ft)	Scenario 3	Scenario 3/ Improvements	Size (in)	Slope (ft/ft)	Scenario 3	Scenario 3/ Improvements
NW283SS05	109.92	122.28	121.54	119.66	10	0.0025	0.77	0.76
NW284SS01	108.92	124.06	121.24	118.47	10	0.0025	0.79	0.79
NW284SS02	107.92	123.37	120.74	116.92	10	0.0025	0.84	0.84
NW284SS03	106.92	121.13	120.04	115.02	10	0.0025	0.91	0.95
NW284SS04	106.17	119.61	119.30	113.21	10	0.0027	0.91	0.95
NW285SS01	105.53	119.33	118.72	111.77	10	0.0025	0.91	0.95
NW319SS01	104.58	121.57	117.73	109.49	10	0.0025	0.91	0.95
NW319SS02	103.58	120.06	116.73	107.06	10	0.0025	0.91	0.95
NW319SS03	102.58	123.50	115.73	104.65	10	0.0025	0.91	0.95
NW319SS04	99.58	117.06	114.75	101.03	10	0.0025	1.07	0.95

LEGEND

Table	Profile	Scenario 3 - Buildout Of Existing Sewersheds with NRPS Capacity Improvements	Table	Profile	Scenario 3 - Buildout Of Existing Sewersheds
XXX.XX			XXX.XX		
					Red Indicates Level of Service (LOS) Failures

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Manhole ID	Manhole Geometry		Scenario 3		Downstream Pipe Properties		Scenario 3	
	Invert Elev. (ft)	Rim Elev. (ft)	Scenario 3	Scenario 3/Improvements	Size (in)	Slope (ft/ft)	Scenario 3	Scenario 3/Improvements
NW351SS69	110.14	124.90	118.27	110.81	12	0.0032	0.90	0.90
NW317SS13	108.67	119.50	117.37	109.35	12	0.0032	0.90	0.90
NW317SS12	107.51	118.00	116.64	108.32	12	0.0031	0.90	0.89
NW317SS11	106.15	115.80	115.80	107.68	12	0.0030	0.79	0.89
NW318SS01	104.72	123.00	115.83	106.87	15	0.0035	1.60	1.84
NW318SS02	103.36	116.44	115.58	105.92	15	0.0028	1.60	1.84
NW318SS03	102.10	117.00	115.28	104.78	15	0.0033	2.32	2.66
NW318SS05	103.89	119.19	115.54	105.52	12	0.0035	0.74	0.83
NW352SS30	104.89	116.87	115.80	106.26	12	0.0021	0.74	0.83
NW352SS31	106.19	116.00	116.00	106.83	12	0.0036	0.74	0.83

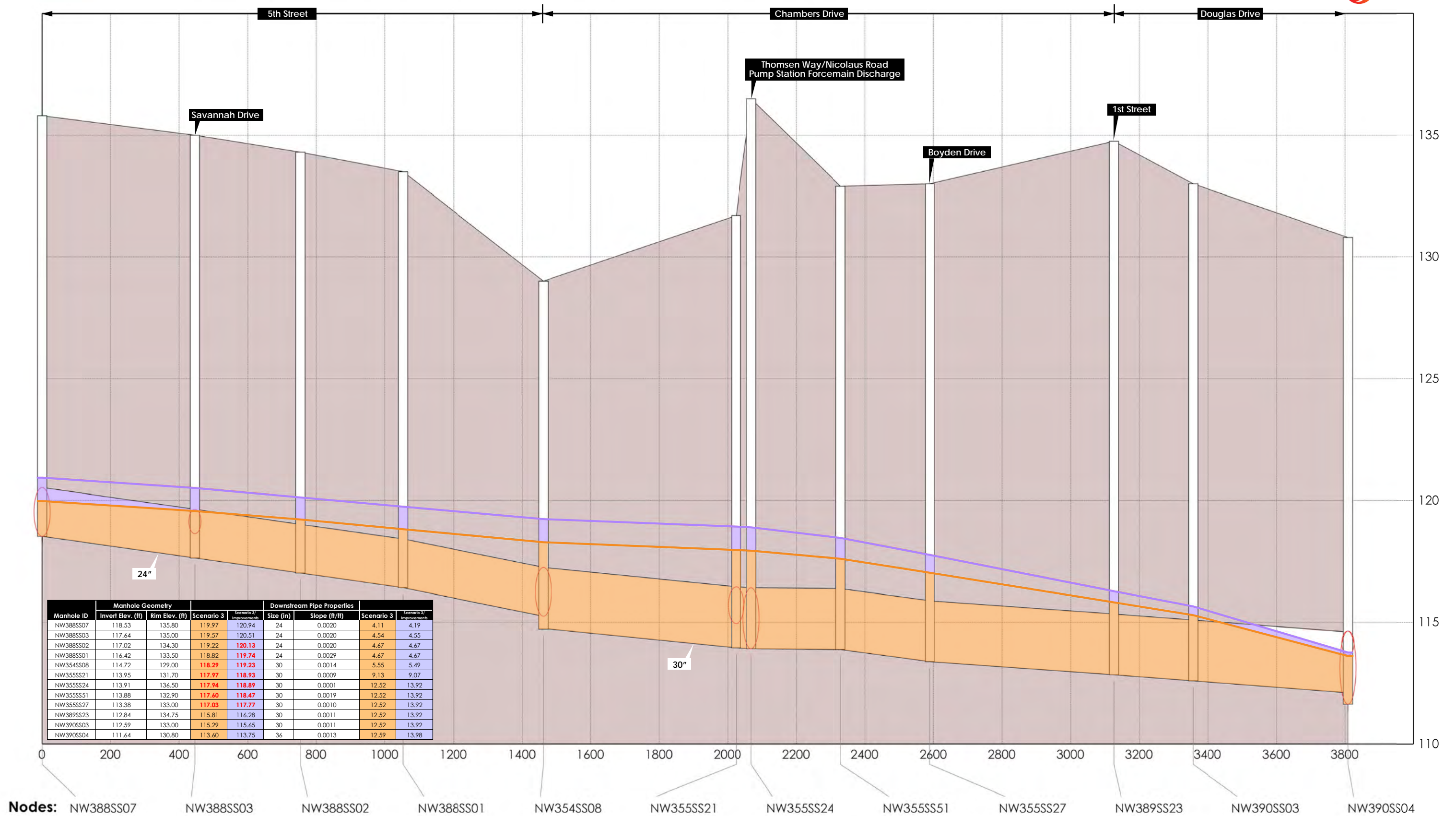
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Table	Profile	Scenario 3 - Buildout Of Existing Sewersheds with NRPS Capacity Improvements	Table	Profile	Scenario 3 - Buildout Of Existing Sewersheds
XXX.XX	—		XXX.XX	—	

Red Indicates Level of Service (LOS) Failures

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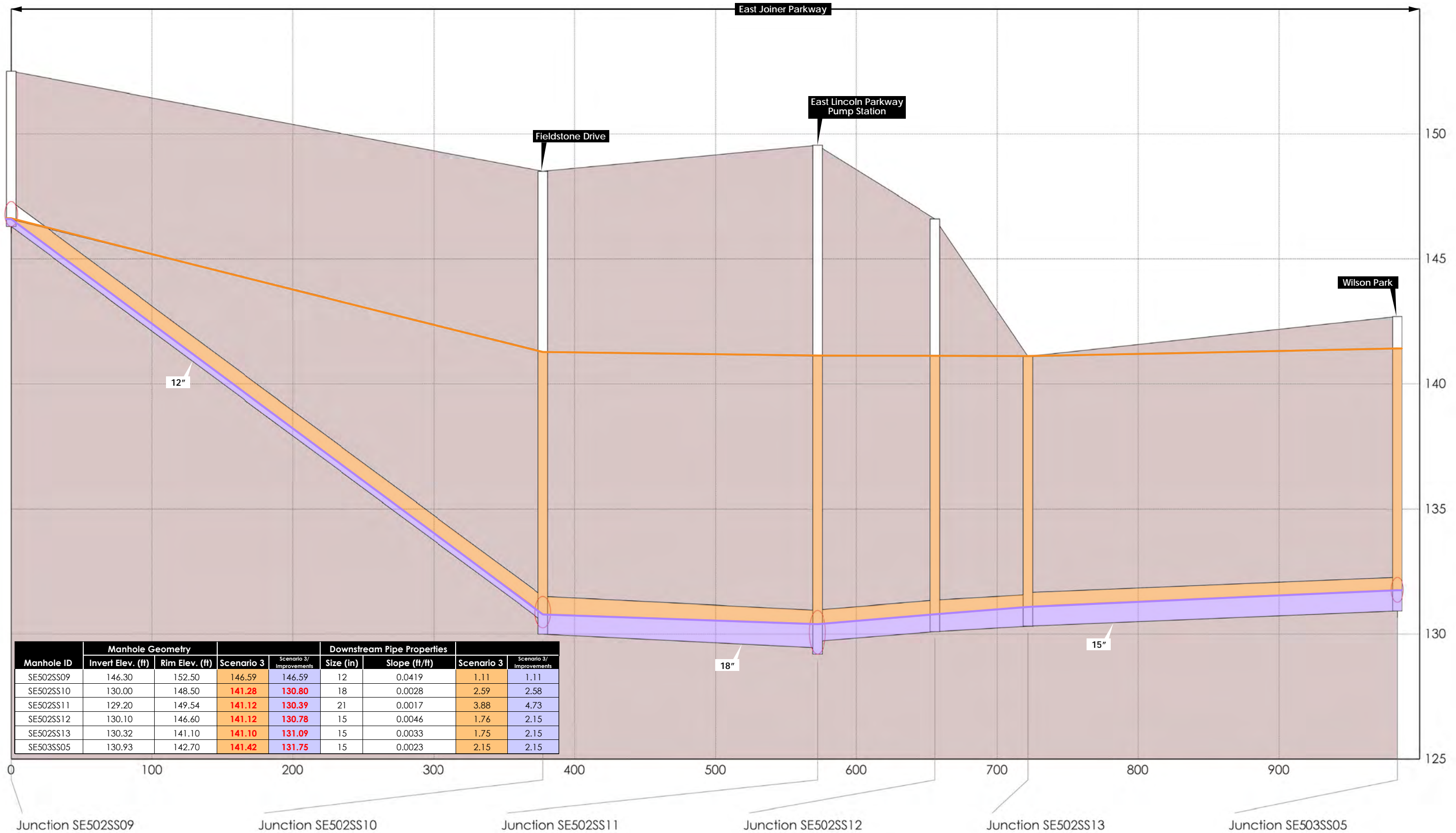


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Table	Profile	Table	Profile
XXX.XX	Scenario 3 - Buildout Of Existing Sewersheds with NRPS Capacity Improvements	XXX.XX	Scenario 3 - Buildout Of Existing Sewersheds
			Red Indicates Level of Service (LOS) Failures

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Manhole ID	Manhole Geometry		Scenario 3		Downstream Pipe Properties		Scenario 3	
	Invert Elev. (ft)	Rim Elev. (ft)	Scenario 3	Scenario 3/ Improvements	Size (in)	Slope (ft/ft)	Scenario 3	Scenario 3/ Improvements
SE502SS09	146.30	152.50	146.59	146.59	12	0.0419	1.11	1.11
SE502SS10	130.00	148.50	141.28	130.80	18	0.0028	2.59	2.58
SE502SS11	129.20	149.54	141.12	130.39	21	0.0017	3.88	4.73
SE502SS12	130.10	146.60	141.12	130.78	15	0.0046	1.76	2.15
SE502SS13	130.32	141.10	141.10	131.09	15	0.0033	1.75	2.15
SE503SS05	130.93	142.70	141.42	131.75	15	0.0023	2.15	2.15

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Table	Profile	Table	Profile
XXX.XX	Scenario 3 - Buildout Of Existing Sewersheds with NRPS Capacity Improvements	XXX.XX	Scenario 3 - Buildout Of Existing Sewersheds
			Red Indicates Level of Service (LOS) Failures

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