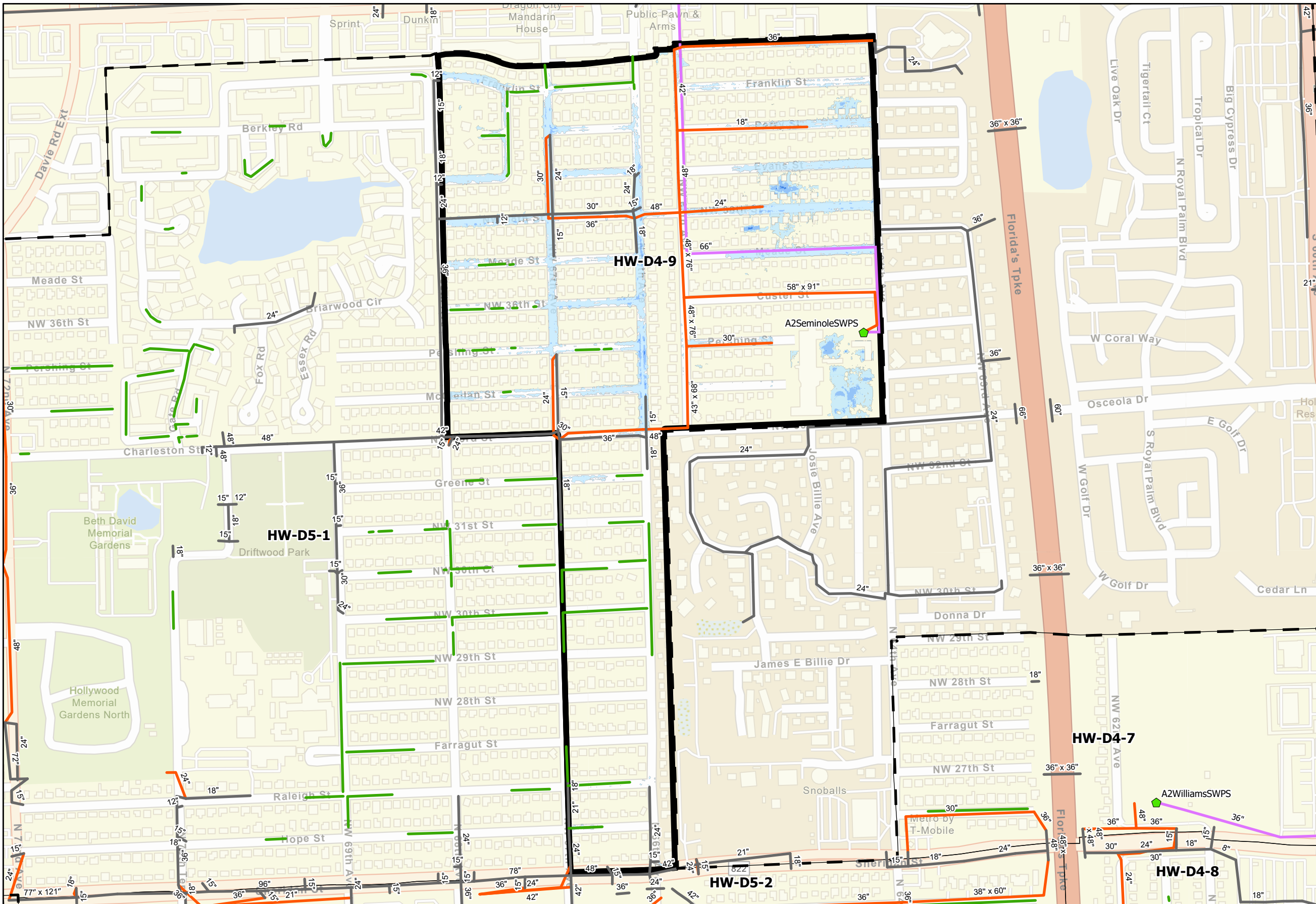




- Legend
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Alt 2 SWPS
 - Alt 2 Injection Wells
 - Existing Gravity Pipes
 - Existing Forcemains
 - Alt 2 Exfiltration Pipe
 - Alt 2 Gravity Pipes
 - Alt 2 Forcemains
 - Alt 2 Detention Pond

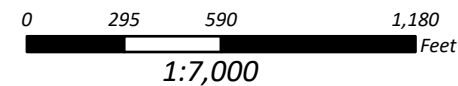
5-Year ALT 2 Storm Flood

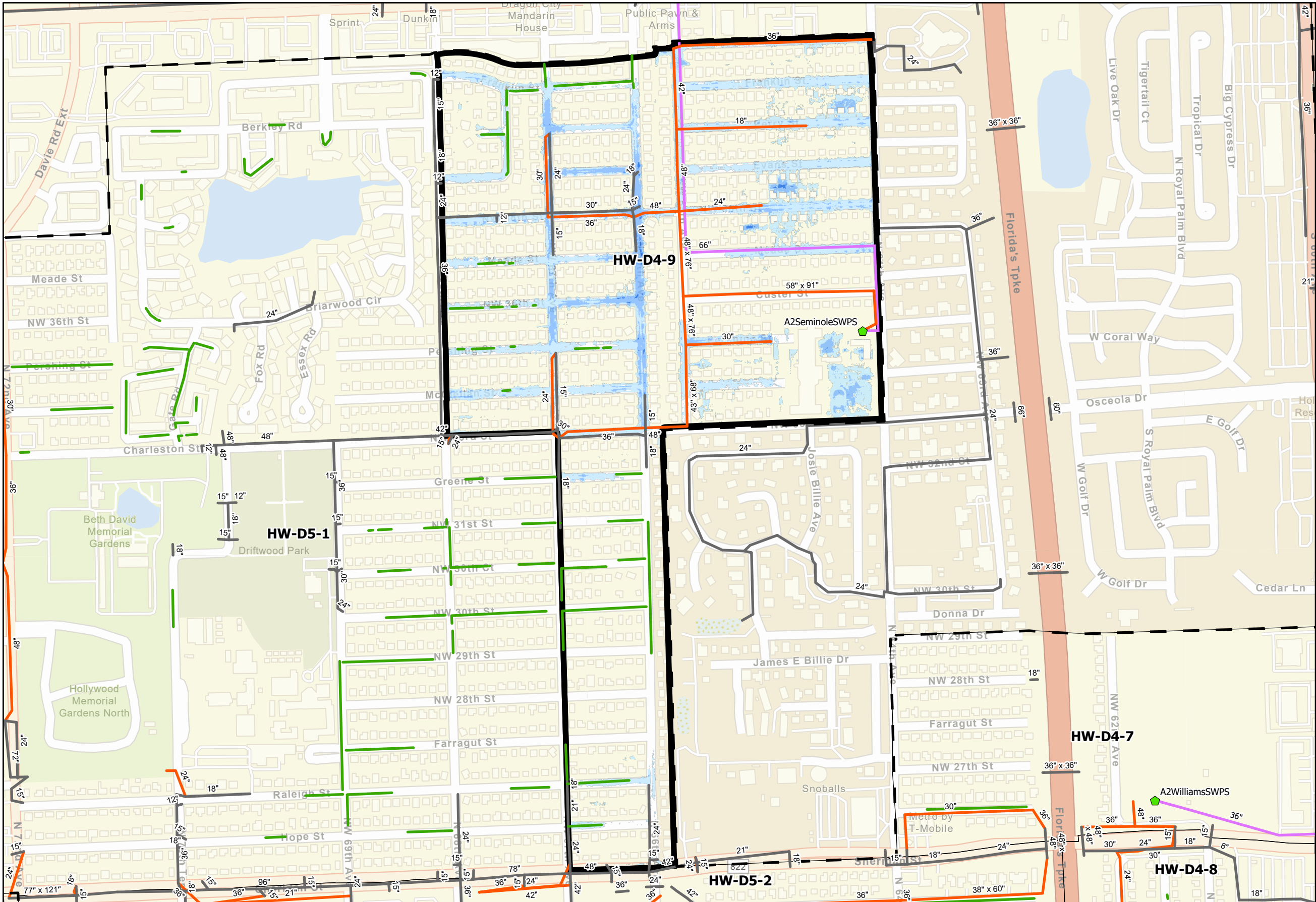
- Feet
- <= 0 ft.
 - 0 - 0.5
 - 0.5 - 1
 - 1 - 1.5
 - > 1.5 ft.



Predicted Flooding Reduction and Proposed ALT 2
CIP for 5-year Design Storm in CIP Area
Driftwood

City of Hollywood Stormwater Master Plan
HW-D4-9_ALT2-5
2/28/2023





			CONCEPTUAL CAPITAL COST ESTIMATE					D4_9 Driftwood	
								Alternative 1	
PUMP STATIONS WITH FORCE MAINS									
ITEM #	Master Sheet Index	DIAMETER (INCHES)	DESCRIPTION		TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0001	13	24	FM- Force Main Collector		Circular	LF	\$ 167.00	0	\$ -
0002	14	36	FM- Force Main Collector		Circular	LF	\$ 242.00	0	\$ -
0003	15	42	FM- Force Main Collector		Circular	LF	\$ 336.00	0	\$ -
0004	16	48	FM- Force Main Collector		Circular	LF	\$ 612.00	0	\$ -
0005	17	54	FM- Force Main Collector		Circular	LF	\$ 982.00	0	\$ -
0006	18	60	FM- Force Main Collector		Circular	LF	\$ 1,149.00	29,000	\$ 33,321,000
0007	19	66	FM- Force Main Collector		Circular	LF	\$ 1,329.00	0	\$ -
0008	20	72	FM- Force Main Collector		Circular	LF	\$ 1,473.00	0	\$ -
0009	225	24	FMO- Force Main Offline		Circular	LF	\$ 353.00	0	\$ -
0010	11		IWI-Injection Wells-Inline			EA	\$ 65,000.00	0	\$ -
0011	12		IWO-Injection Wells- Offline			EA	\$ 75,000.00	0	\$ -
0012	6	PS-Storm Drainage Pump Stations < 166 cfs			I	EA	\$ 2,400,000.00	0	\$ -
0013	7	PS-Storm Drainage Pump Stations < 166-246 cfs			II	EA	\$ 3,500,000.00	1	\$ 3,500,000
0014	8	PS-Storm Drainage Pump Stations < 246-328 cfs			III	EA	\$ 4,900,000.00	0	\$ -
0015	9	PS-Storm Drainage Pump Stations< 328-410 cfs			IV	EA	\$ 6,750,000.00	0	\$ -
0016	54	PS-CS22 Storm Drainage Pump Stations 600CFS				EA	\$ 8,000,000.00	0	\$ -
NN SUBTOTAL								\$	36,821,000
EXFILTRATION WITH GRAVITY MAINS								D4_9 Driftwood	
ITEM #	Master Sheet Index	DIAMETER (INCHES)	WIDTH(INCHES)	DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0020	21	15		GM-Gravity Main Collector	Circular	LF	\$ 40.00	0	\$ -
0021	22	18		GM-Gravity Main Collector	Circular	LF	\$ 45.00	0	\$ -
0023	23	24		GM-Gravity Main Collector	Circular	LF	\$ 48.00	1,275	\$ 61,200
0024	24	30		GM-Gravity Main Collector	Circular	LF	\$ 52.00	875	\$ 45,500
0026	25	36		GM-Gravity Main Collector	Circular	LF	\$ 80.00	1,005	\$ 80,400
0028	26	42		GM-Gravity Main Collector	Circular	LF	\$ 115.00	1,215	\$ 139,725
0029	27	48		GM-Gravity Main Collector	Circular	LF	\$ 125.00	990	\$ 123,750
0030	28	54		GM-Gravity Main Collector	Circular	LF	\$ 150.00	0	\$ -
0031	29	60		GM-Gravity Main Collector	Circular	LF	\$ 220.00	0	\$ -
0032	30	66		GM-Gravity Main Collector	Circular	LF	\$ 428.00	0	\$ -
0033	31	72		GM-Gravity Main Collector	Circular	LF	\$ 485.00	0	\$ -
0035	32	29	45	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 205.00	0	\$ -
0036	33	32	49	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 215.00	0	\$ -
0037	34	34	53	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 225.00	0	\$ -
0038	35	38	60	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 235.00	0	\$ -
0039	36	43	68	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 370.00	1,540	\$ 569,800
0040	37	48	76	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 400.00	280	\$ 112,000
0041	38	53	83	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 432.00	515	\$ 222,480
0042	39	58	91	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 320.00	1,067	\$ 341,440
0043	40	63	98	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 410.00	0	\$ -
0044	41	68	106	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 460.00	1,455	\$ 669,300
0045	42	72	113	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 570.00	0	\$ -
0046	43	82	128	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 650.00	0	\$ -
0048	44	72	120	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0072	45	72	72	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0049	46	84	120	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 750.00	0	\$ -
0050	47	96	96	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 850.00	0	\$ -
0051	48			GBP-Gravity Backflow Pipe <36"		Ea	\$ 35,000.00	0	\$ -
0052	49			GBP-Gravity Backflow Pipe >36"		Ea	\$ 70,000.00	0	\$ -
0053	5			GW-Gravity Wells		EA	\$ 105,000.00	0	\$ -
0054	4	48		ET-Exfiltration Trench		LF	\$ 250.00	4,362	\$ 1,090,500
0056	50			Weir Box CS		EA	\$ 7,500.00	0	\$ -
0057	53			CS-22 Remod		EA	\$ 200,000.00	0	\$ -
0058	55			SW-04 Remod		EA	\$ 150,000.00	0	\$ -
0055				Gravity Structures-Inlets		EA	\$ 30,000.00	179	\$ 5,384,750
0059	56			Ditch Improvement		LF	\$ 50.00	0	\$ -
0091	57			Swale/Ditch Headwall		Ea	\$ 10,000.00	0	\$ -
0090	10			Exfil End Weir		Ea	\$ 5,000.00	0	\$ -
0092	51			Ret/Det Pond		CUY	\$ 355.00	0	\$ -
								#N/A	
								#N/A	
GRAVITY MAIN SUBTOTAL								#N/A	\$ 8,840,845
0060		Pavement Restoration including Pavement Marking (Full Road)				LF	\$ 270.00	43,579	\$ 11,766,330
CONSTRUCTION COST SUBTOTAL								\$	57,428,175
GENERAL CONDITIONS								D4_9 Driftwood	
0061		Mobilization				LS	4%	\$ 57,428,175	\$ 2,297,127
0062		Insurance and General Conditions				LS	2%	\$ 57,428,175	\$ 1,148,564
0063		Permits/Fees				LS	2%	\$ 57,428,175	\$ 1,148,564
0064		Maintenance of Traffic				LS	3%	\$ 57,428,175	\$ 1,722,845
0065		Engineering Design & CA Oversight Costs				LS	15%	\$ 57,428,175	\$ 8,614,226
0066		Construction Engineering Inspection Costs				LS	4%	\$ 57,428,175	\$ 2,297,127
0067		OCI Management Cost				LS	15%	\$ 57,428,175	\$ 8,614,226
0068		Project Contingency Costs				LS	30%	\$ 57,428,175	\$ 17,228,453
Land acquisition									
NS SUBTOTAL									\$ 43,071,131
TOTAL								\$	100,499,306

		CONCEPTUAL CAPITAL COST ESTIMATE						D4_9 Driftwood			
PUMP STATIONS WITH FORCE MAINS										Alternative 2	
ITEM #	Master Sheet Index	DIAMETER (INCHES)			DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL	
0001	13	24			FM- Force Main Collector	Circular	LF	\$ 167.00	0	\$ -	
0002	14	36			FM- Force Main Collector	Circular	LF	\$ 242.00	0	\$ -	
0003	15	42			FM- Force Main Collector	Circular	LF	\$ 336.00	0	\$ -	
0004	16	48			FM- Force Main Collector	Circular	LF	\$ 612.00	0	\$ -	
0005	17	54			FM- Force Main Collector	Circular	LF	\$ 982.00	0	\$ -	
0006	18	60			FM- Force Main Collector	Circular	LF	\$ 1,149.00	0	\$ -	
0007	19	66			FM- Force Main Collector	Circular	LF	\$ 1,329.00	14,500	\$ 19,270,500	
0008	20	72			FM- Force Main Collector	Circular	LF	\$ 1,473.00	0	\$ -	
0009	225	24			FMO- Force Main Offline	Circular	LF	\$ 353.00	0	\$ -	
0010	11				IWI-Injection Wells-Inline	EA	\$ 65,000.00	0	\$ -		
0011	12				IWO-Injection Wells -Offline	EA	\$ 75,000.00	0	\$ -		
0012	6	PS-Storm Drainage Pump Stations < 166 cfs			I	EA	\$ 2,400,000.00	1	\$ 2,400,000		
0013	7	PS-Storm Drainage Pump Stations < 166-246 cfs			II	EA	\$ 3,500,000.00	0	\$ -		
0014	8	PS-Storm Drainage Pump Stations < 246-328 cfs			III	EA	\$ 4,900,000.00	0	\$ -		
0015	9	PS-Storm Drainage Pump Stations< 328-410 cfs			IV	EA	\$ 6,750,000.00	0	\$ -		
0016	54	PS-CS22 Storm Drainage Pump Stations 600CFS			EA	\$ 8,000,000.00	0	\$ -			
IN SUBTOTAL										\$ 21,670,500	
EXFILTRATION WITH GRAVITY MAINS										D4_9 Driftwood	
ITEM #	Master Sheet Index	DIAMETER (INCHES)	Width(INCHES)			DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0022	22	21				GM-Gravity Main Collector	Circular	LF	\$ 45.00	0	\$ -
0021	21	18				GM-Gravity Main Collector	Circular	LF	\$ 45.00	785	\$ 35,325
0023	23	24				GM-Gravity Main Collector	Circular	LF	\$ 48.00	1,110	\$ 53,280
0024	24	30				GM-Gravity Main Collector	Circular	LF	\$ 52.00	1,005	\$ 52,260
0026	25	36				GM-Gravity Main Collector	Circular	LF	\$ 80.00	2,260	\$ 180,800
0028	26	42				GM-Gravity Main Collector	Circular	LF	\$ 115.00	490	\$ 56,350
0029	27	48				GM-Gravity Main Collector	Circular	LF	\$ 125.00	927	\$ 115,875
0030	28	54				GM-Gravity Main Collector	Circular	LF	\$ 150.00	0	\$ -
0031	29	60				GM-Gravity Main Collector	Circular	LF	\$ 220.00	0	\$ -
0032	30	66				GM-Gravity Main Collector	Circular	LF	\$ 428.00	0	\$ -
0033	31	72				GM-Gravity Main Collector	Circular	LF	\$ 485.00	0	\$ -
0035	32	29	45			GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 205.00	0	\$ -
0036	33	32	49			GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 215.00	0	\$ -
0037	34	34	53			GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 225.00	0	\$ -
0038	35	38	60			GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 235.00	0	\$ -
0039	36	43	68			GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 370.00	620	\$ 229,400
0040	37	48	76			GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 400.00	810	\$ 324,000
0041	38	53	83			GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 432.00	0	\$ -
0042	39	58	91			GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 320.00	1,455	\$ 465,600
0043	40	63	98			GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 410.00	0	\$ -
0044	41	68	106			GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 460.00	0	\$ -
0045	42	72	113			GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 570.00	0	\$ -
0046	43	82	128			GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 650.00	0	\$ -
0048	44	72	120			GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0072	45	72	72			GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0049	46	72	96			GM-Gravity Main Collector	Rectangle Closed	LF	\$ 750.00	0	\$ -
0050	47	96	96			GM-Gravity Main Collector	Rectangle Closed	LF	\$ 850.00	0	\$ -
0051	48					GBP-Gravity Backflow Pipe <36"	Ea	\$ 35,000.00	0	\$ -	
0052	49					GBP-Gravity Backflow Pipe >36"	Ea	\$ 70,000.00	0	\$ -	
0053	5					GW-Gravity Wells	EA	\$ 105,000.00	0	\$ -	
0054	4	48				ET-Exfiltration Trench	LF	\$ 250.00	5,225	\$ 1,306,250	
0055	50					Weir Box CS	EA	\$ 30,000.00	0	\$ -	
0057	53					CS-22 Remod	EA	\$ 525,000.00	0	\$ -	
0058	55					SW-04 Remod	EA	\$ 150,000.00	0	\$ -	
0056						Gravity Structures-Inlets	EA	\$ 7,500.00	151	\$ 1,135,438	
0059	56					Ditch Improvement	LF	\$ 50.00	0	\$ -	
0091	57					Swale/Ditch Headwall	Ea	\$ 10,000.00	0	\$ -	
0090	10					Exfil End Weir	Ea	\$ 5,000.00	0	\$ -	
0092	51					Ret/Det Pond	CUY	\$ 355.00	0	\$ -	
								#N/A	#VALUE!	#VALUE!	
								#N/A	#VALUE!	#VALUE!	
								#N/A	#VALUE!	#VALUE!	
GRAVITY MAIN SUBTOTAL										\$ 3,954,578	
0060		Pavement Restoration including Pavement Marking (Full Road)					LF	\$ 270.00	29,187	\$ 7,880,490	
CONSTRUCTION COST SUBTOTAL										\$ 33,505,568	
GENERAL CONDITIONS										D4_9 Driftwood	
0061		Mobilization					LS	4%	\$ 33,505,568	\$ 1,340,223	
0062		Insurance and General Conditions					LS	2%	\$ 33,505,568	\$ 670,111	
0063		Permits/Fees					LS	2%	\$ 33,505,568	\$ 670,111	
0064		Maintenance of Traffic					LS	3%	\$ 33,505,568	\$ 1,005,167	
0065		Engineering Design & CA Oversight Costs					LS	15%	\$ 33,505,568	\$ 5,025,835	
0066		Construction Engineering Inspection Costs					LS	4%	\$ 33,505,568	\$ 1,340,223	
0067		OCI Management Cost					LS	15%	\$ 33,505,568	\$ 5,025,835	
0068		Project Contingency Costs					LS	30%	\$ 33,505,568	\$ 10,051,670	
NS SUBTOTAL										\$ 25,129,176	
TOTAL										\$ 58,634,743	

3.2.2.5 CIP Area HW-D6-6 (Hollywood Gardens West / 441 Corridor South)

Root Causes of Flooding

This CIP area is characterized by mostly built-out, high impervious, mixed commercial and residential land use and has an insufficient and undersized existing drainage system (other than the US 441/SR 7 FDOT system) and some minor Johnson Street exfiltration. The entire basin is at a high elevation (so additional exfiltration will work well). Flooding is primarily a result of the flat terrain and lack of movement of ponded water during rainfall events.

Alternative 1

Proposed CIP:

- New gravity collection systems and inlets in CIP neighborhoods to the FDOT system along SR-441.
- New 5,810 l.f. of exfiltration systems in neighborhoods.

Summary of Locations Not Meeting ALT 1 LOS:

1. Structures Flooded pre-7, post-0.

Summary of Offsite Issues Affecting CIP Area:

1. None.

Alternative 2

Proposed CIP:

- New gravity collection systems and inlets in the CIP area neighborhoods to the FDOT system along SR-441.
- New 2,965 l.f. of exfiltration systems in neighborhoods.

Summary of Locations Not Meeting ALT 2 LOS:

1. Structures Flooded pre-7, post-0.

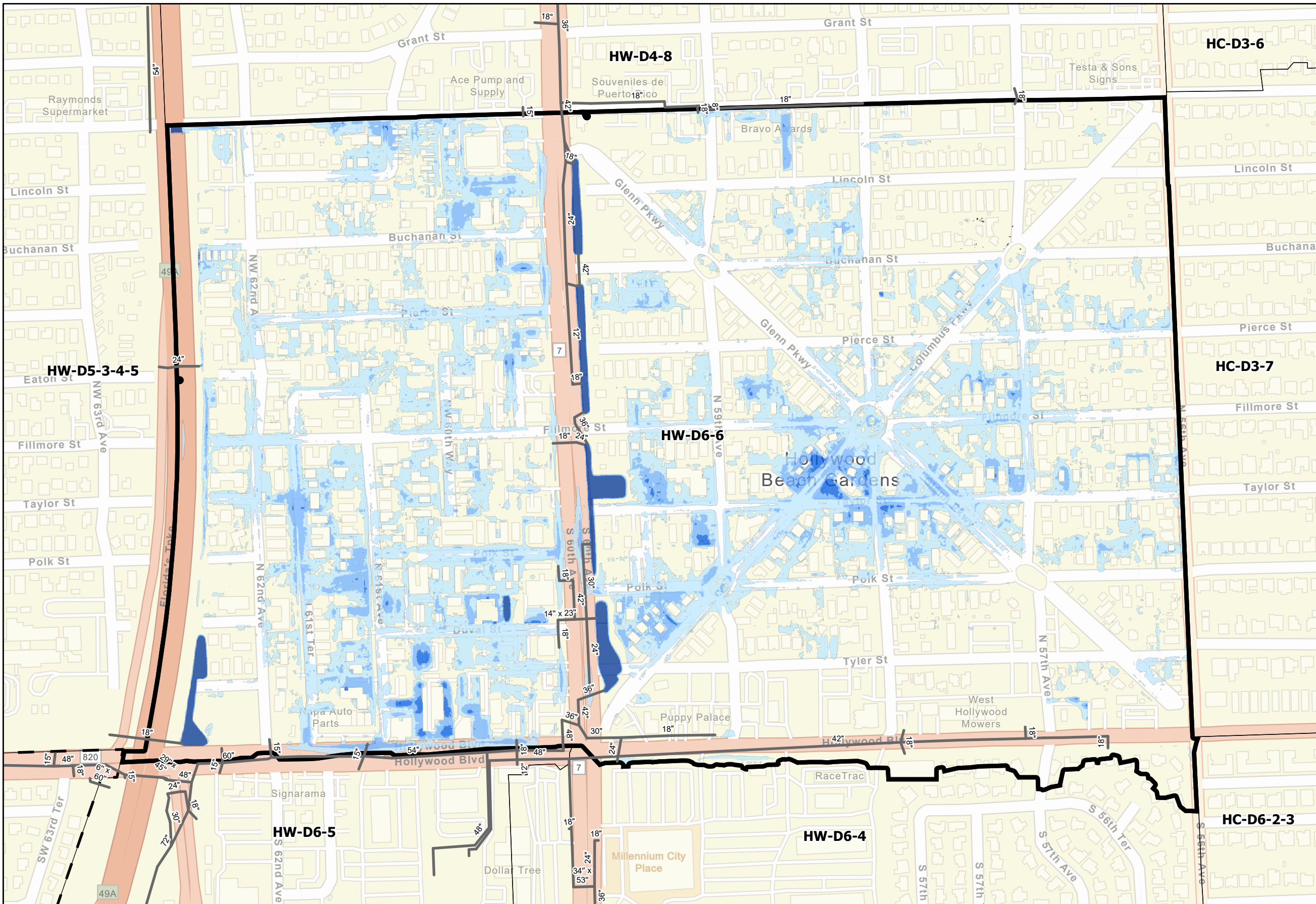
Summary of Offsite Issues Affecting CIP Area:

1. None.

HW-D6-6 Pre-Post CIP Flood Inundation Maps

The following figures provide the predicted existing conditions flooding for the 5- and 10-year storm in the CIP Area and the predicted flood reduction for these storms under the Alternatives 1 and 2 CIP:

- **Figure HW-D6-6-EC_5 - Current Conditions Flooding in CIP Area 5-year Design Storm**
- **Figure HW-D6-6-EC_10 - Current Conditions Flooding in CIP Area 10-year Design Storm**
- **Figure HW-D6-6-CIP_ALT1_5 - Predicted Flooding Reduction and Proposed ALT1 CIP for 5-year Design Storm**



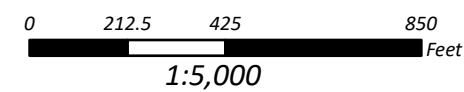
Legend

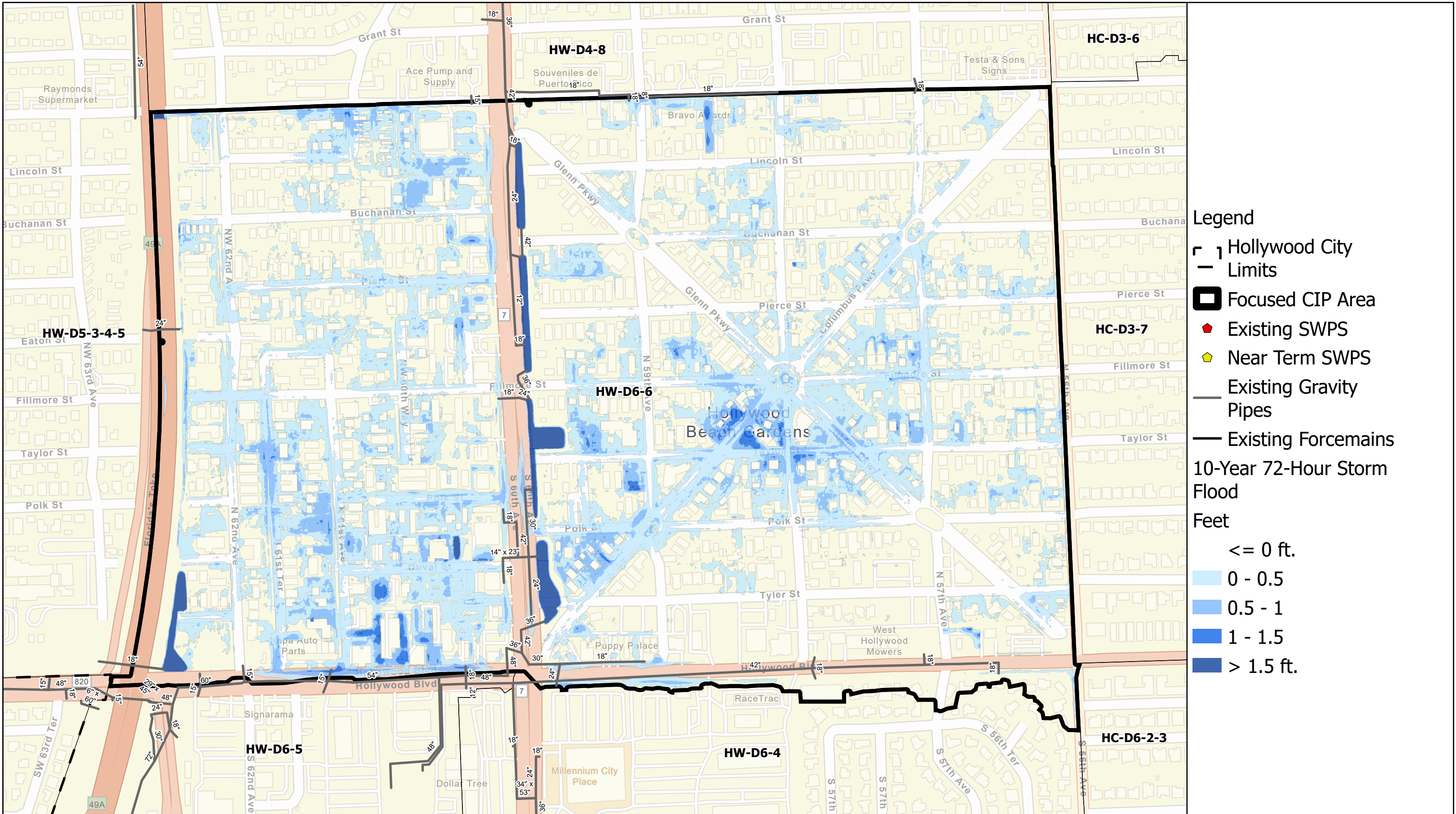
- Hollywood City Limits
- Focused CIP Area
- Existing SWPS
- Near Term SWPS
- Existing Gravity Pipes
- Existing Forcemains
- 5-Year 24-Hour Storm Flood Feet**
- <= 0 ft.
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.



Current Conditions Flooding in CIP Area Hollywood Gardens West / 441 Corridor South 5-year Design Storm

City of Hollywood Stormwater Master Plan
HW-D6-6_EC-5
2/28/2023

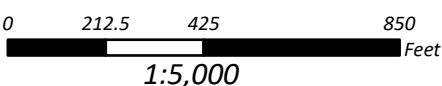


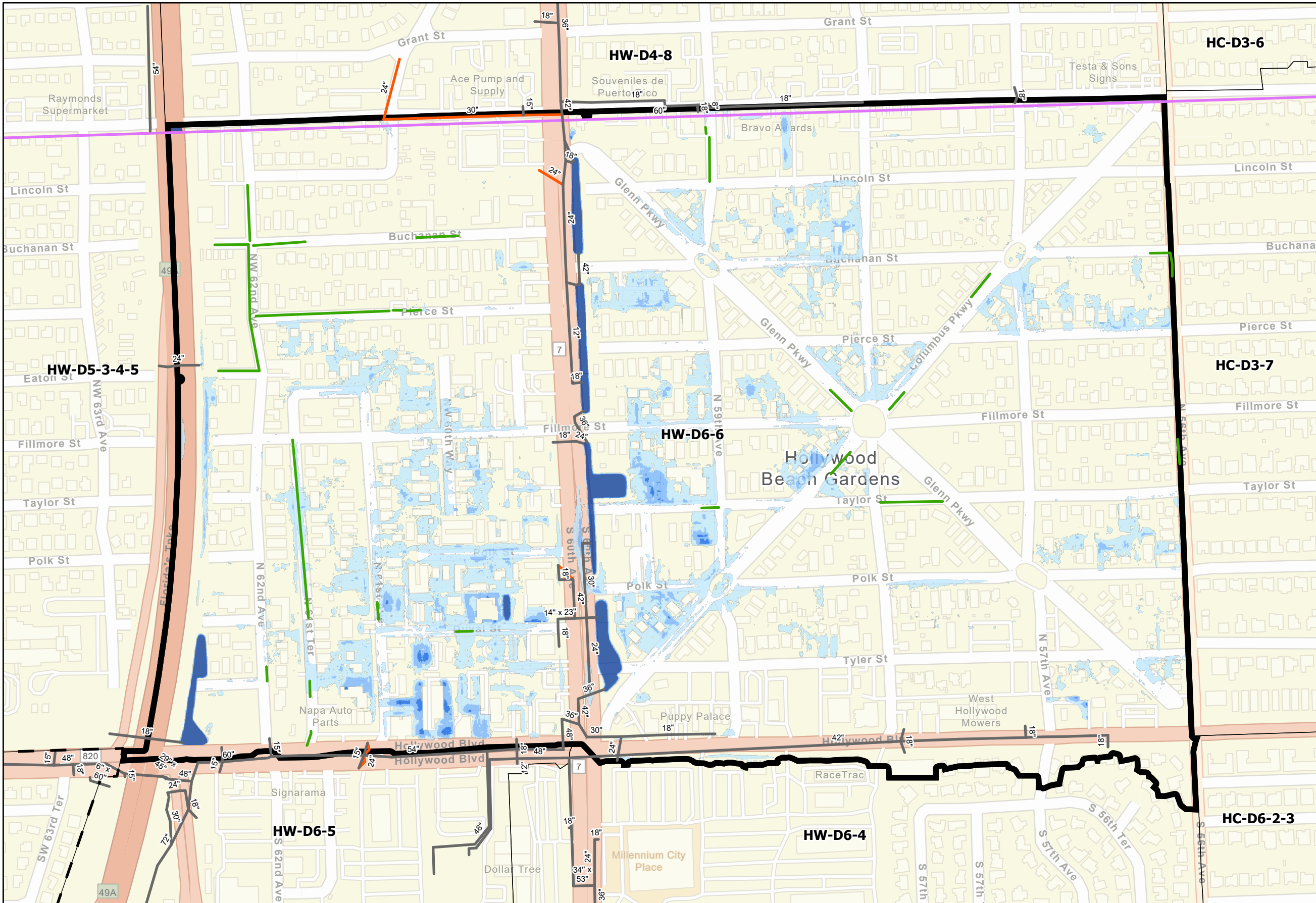


- Legend**
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Existing Gravity Pipes
 - Existing Forcemains
 - 10-Year 72-Hour Storm Flood Feet
 - <= 0 ft.
 - 0 - 0.5
 - 0.5 - 1
 - 1 - 1.5
 - > 1.5 ft.



Current Conditions Flooding in CIP Area
Hollywood Gardens West / 441 Corridor South
10-year Design Storm

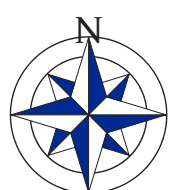




- Legend
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Alt 1 SWPS
 - Alt 1 Injection Wells
 - Existing Gravity Pipes
 - Existing Forcemains
 - Alt 1 Exfiltration Pipes
 - Alt 1 Gravity Pipes
 - Alt 1 Forcemains
 - Alt 1 Detention Pond

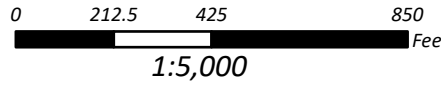
5-Year ALT 1 Storm Flood Feet

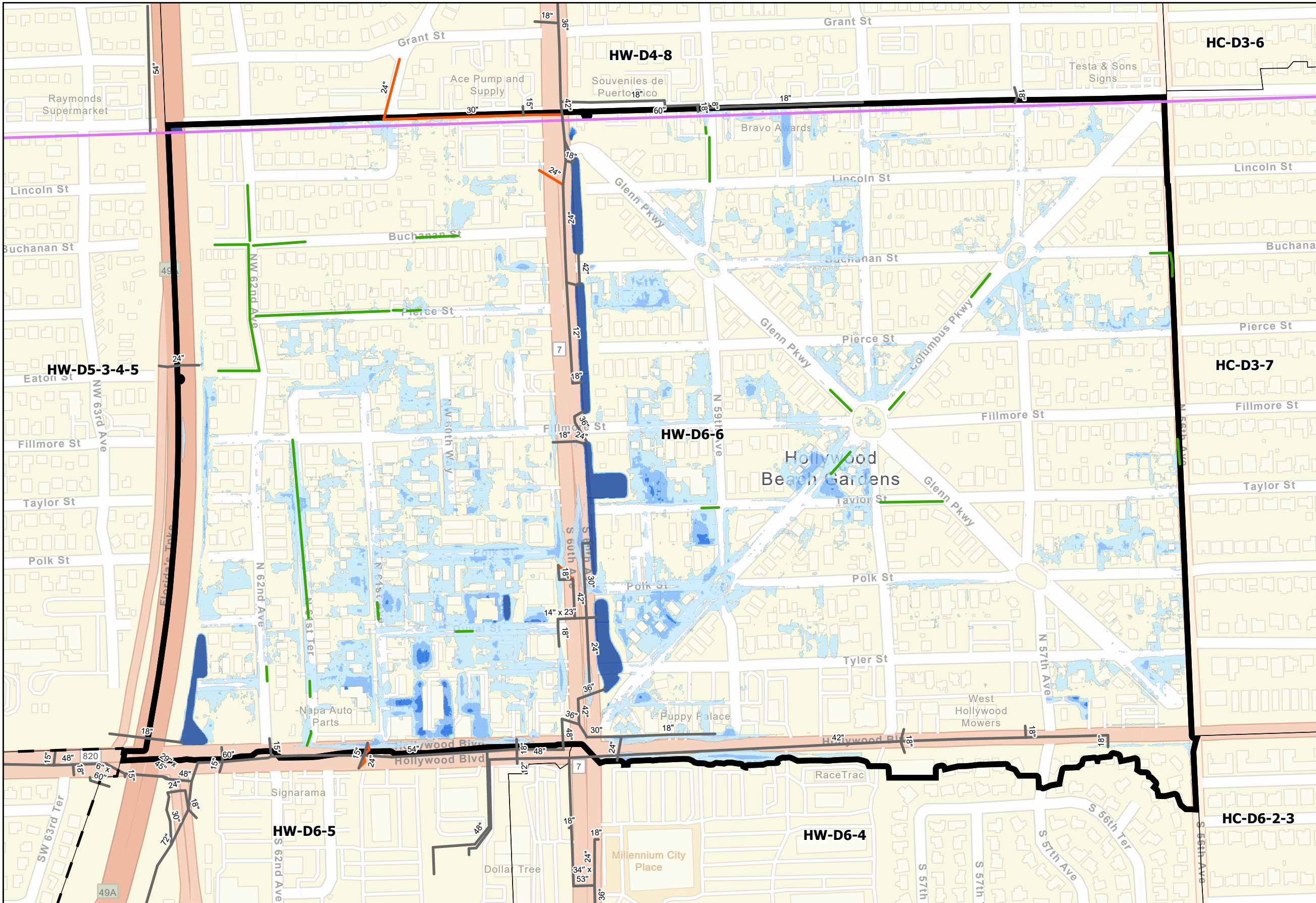
- <= 0 ft.
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.



Predicted Flooding Reduction and Proposed ALT 1
CIP for 5-year Design Storm in CIP Area
Hollywood Gardens West / 441 Corridor South

City of Hollywood Stormwater Master Plan
HW-D6-6_ALT1-5
2/28/2023





- Legend
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Alt 1 SWPS
 - Alt 1 Injection Wells
 - Existing Gravity Pipes
 - Existing Force mains
 - Alt 1 Exfiltration Pipes
 - Alt 1 Gravity Pipes
 - Alt 1 Force mains
 - Alt 1 Detention Pond

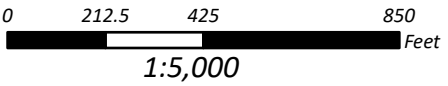
10-Year ALT 1 Storm Flood Feet

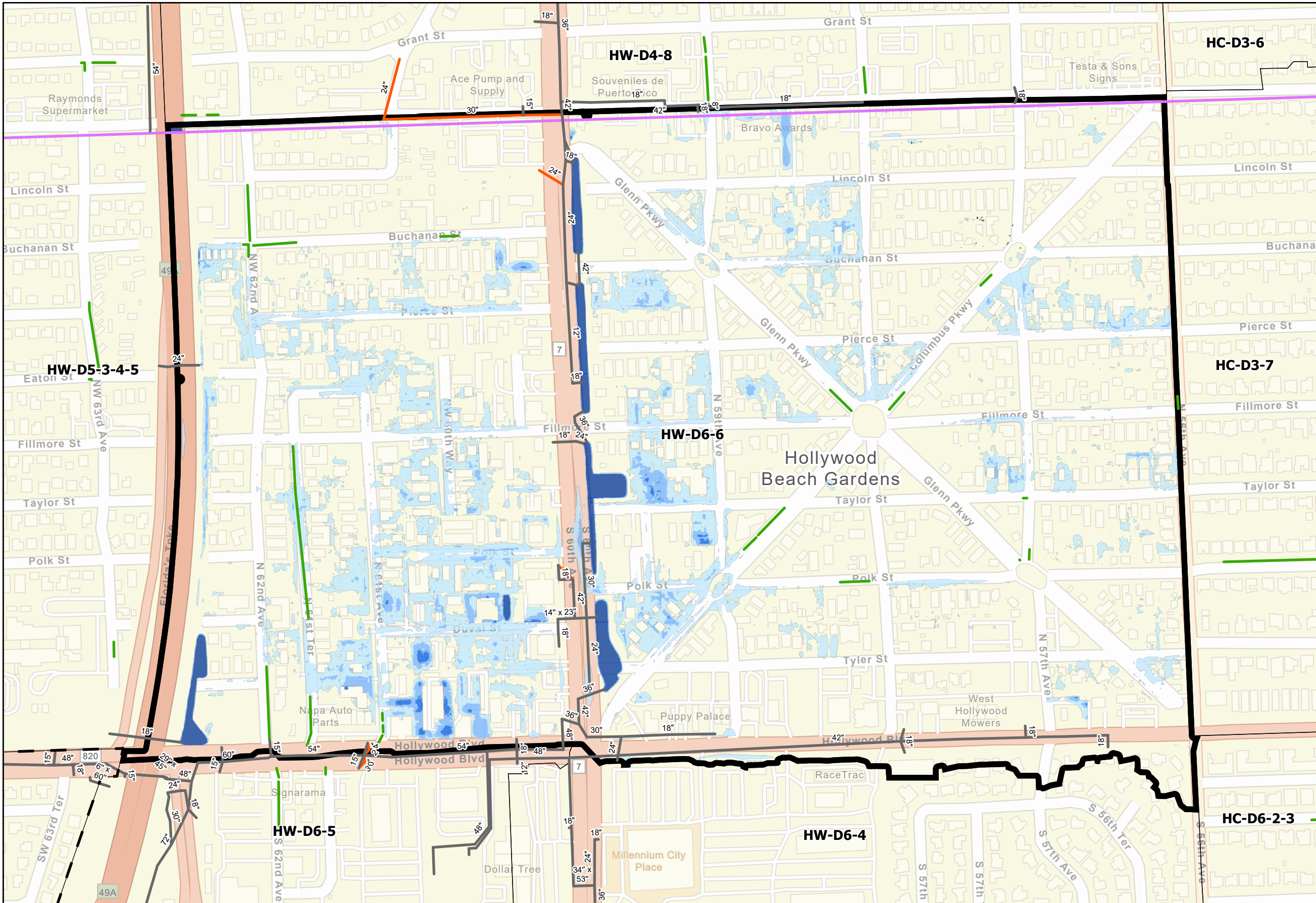
- <= 0 ft.
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.



Predicted Flooding Reduction and Proposed ALT 1
CIP for 10-year Design Storm in CIP Area
Hollywood Gardens West / 441 Corridor South

City of Hollywood Stormwater Master Plan
HW-D6-6_ALT1-10
2/28/2023

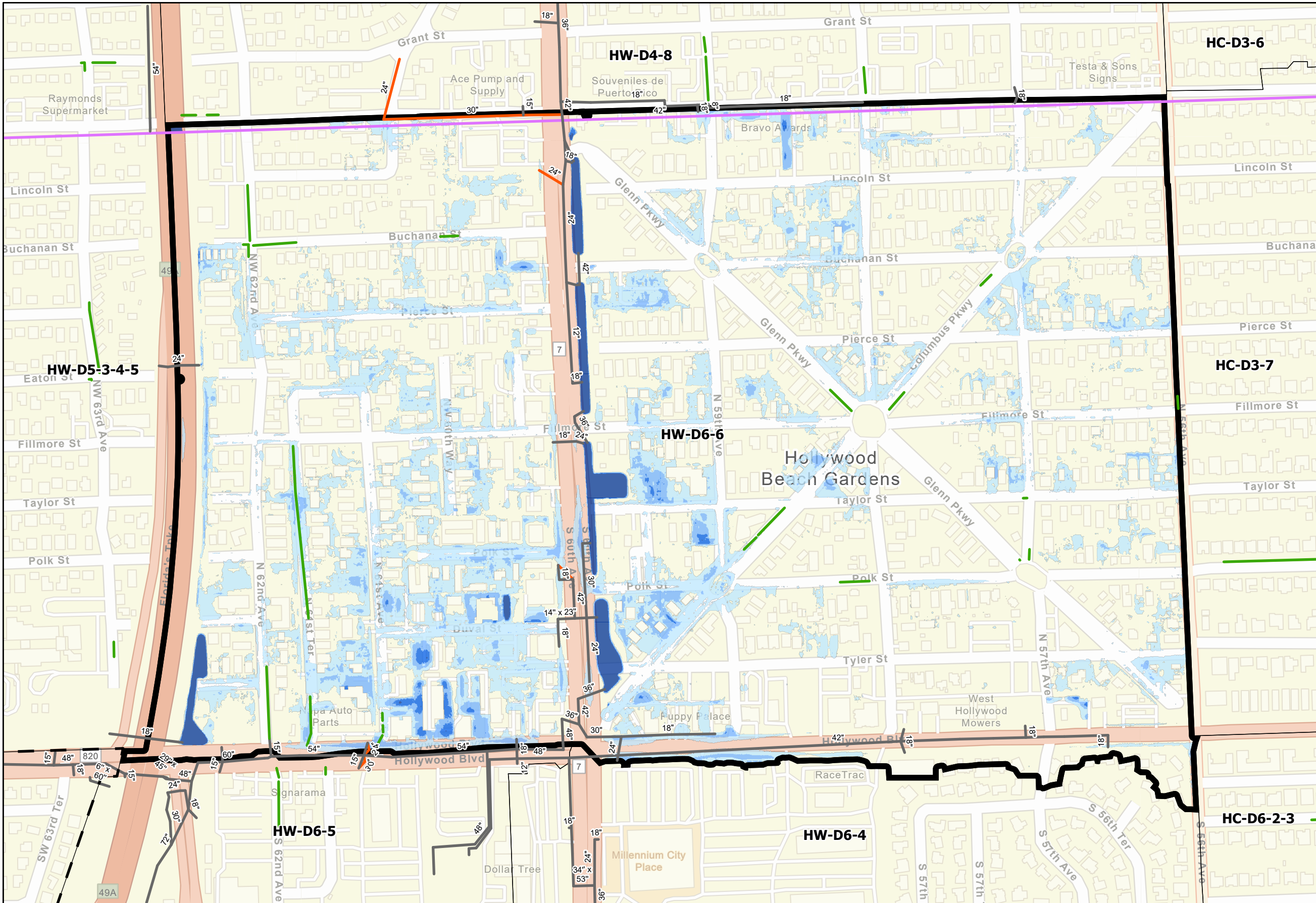




- Legend
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Alt 2 SWPS
 - Alt 2 Injection Wells
 - Existing Gravity Pipes
 - Existing Forcemains
 - Alt 2 Exfiltration Pipe
 - Alt 2 Gravity Pipes
 - Alt 2 Forcemains
 - Alt 2 Detention Pond

5-Year ALT 2 Storm Flood Feet

- <= 0 ft.
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.



- Legend**
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Alt 2 SWPS
 - Alt 2 Injection Wells
 - Existing Gravity Pipes
 - Existing Forcemains
 - Alt 2 Exfiltration Pipe
 - Alt 2 Gravity Pipes
 - Alt 2 Forcemains
 - Alt 2 Detention Pond

10-Year ALT 2 Storm Flood

- Feet**
- <= 0 ft.
 - 0 - 0.5
 - 0.5 - 1
 - 1 - 1.5
 - > 1.5 ft.

			CONCEPTUAL CAPITAL COST ESTIMATE					441 Corridor South and Hollywood Gardens West	
								Alternative 1	
PUMP STATIONS WITH FORCE MAINS									
ITEM #	Master Sheet Index	DIAMETER (INCHES)	DESCRIPTION		TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0001	13	24	FM- Force Main Collector		Circular	LF	\$ 167.00	0	\$ -
0002	14	36	FM- Force Main Collector		Circular	LF	\$ 242.00	0	\$ -
0003	15	42	FM- Force Main Collector		Circular	LF	\$ 336.00	0	\$ -
0004	16	48	FM- Force Main Collector		Circular	LF	\$ 612.00	0	\$ -
0005	17	54	FM- Force Main Collector		Circular	LF	\$ 982.00	0	\$ -
0006	18	60	FM- Force Main Collector		Circular	LF	\$ 1,149.00	0	\$ -
0007	19	66	FM- Force Main Collector		Circular	LF	\$ 1,329.00	0	\$ -
0008	20	72	FM- Force Main Collector		Circular	LF	\$ 1,473.00	0	\$ -
0009	225	24	FMO- Force Main Offline		Circular	LF	\$ 353.00	0	\$ -
0010	11		IWI-Injection Wells-Inline			EA	\$ 65,000.00	0	\$ -
0011	12		IWO-Injection Wells -Offline			EA	\$ 75,000.00	0	\$ -
0012	6	PS-Storm Drainage Pump Stations < 166 cfs			I	EA	\$ 2,400,000.00	0	\$ -
0013	7	PS-Storm Drainage Pump Stations < 166-246 cfs			II	EA	\$ 3,500,000.00	0	\$ -
0014	8	PS-Storm Drainage Pump Stations < 246-328 cfs			III	EA	\$ 4,900,000.00	0	\$ -
0015	9	PS-Storm Drainage Pump Stations< 328-410 cfs			IV	EA	\$ 6,750,000.00	0	\$ -
0016	54	PS-CS22 Storm Drainage Pump Stations 600CFS				EA	\$ 8,000,000.00	0	\$ -
NIN SUBTOTAL									\$ -
EXFILTRATION WITH GRAVITY MAINS								ridor South and Hollywood Gardes	
ITEM #	Master Sheet Index	DIAMETER (INCHES)	Width(INCHES)	DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0020	21	15		GM-Gravity Main Collector	Circular	LF	\$ 40.00	0	\$ -
0021	22	18		GM-Gravity Main Collector	Circular	LF	\$ 45.00	0	\$ -
0023	23	24		GM-Gravity Main Collector	Circular	LF	\$ 48.00	300	\$ 14,400
0024	24	30		GM-Gravity Main Collector	Circular	LF	\$ 52.00	0	\$ -
0026	25	36		GM-Gravity Main Collector	Circular	LF	\$ 80.00	0	\$ -
0028	26	42		GM-Gravity Main Collector	Circular	LF	\$ 115.00	0	\$ -
0029	27	48		GM-Gravity Main Collector	Circular	LF	\$ 125.00	0	\$ -
0030	28	54		GM-Gravity Main Collector	Circular	LF	\$ 150.00	0	\$ -
0031	29	60		GM-Gravity Main Collector	Circular	LF	\$ 220.00	0	\$ -
0032	30	66		GM-Gravity Main Collector	Circular	LF	\$ 428.00	0	\$ -
0033	31	72		GM-Gravity Main Collector	Circular	LF	\$ 485.00	0	\$ -
0035	32	29	45	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 205.00	0	\$ -
0036	33	32	49	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 215.00	0	\$ -
0037	34	34	53	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 225.00	0	\$ -
0038	35	38	60	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 235.00	0	\$ -
0039	36	43	68	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 370.00	0	\$ -
0040	37	48	76	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 400.00	0	\$ -
0041	38	53	83	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 432.00	0	\$ -
0042	39	58	91	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 320.00	0	\$ -
0043	40	63	98	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 410.00	0	\$ -
0044	41	68	106	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 460.00	0	\$ -
0045	42	72	113	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 570.00	0	\$ -
0046	43	82	128	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 650.00	0	\$ -
0048	44	72	120	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0072	45	72	72	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0049	46	84	120	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 750.00	0	\$ -
0050	47	96	96	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 850.00	0	\$ -
0051	48					Ea	\$ 35,000.00	0	\$ -
0052	49					Ea	\$ 70,000.00	0	\$ -
0053	5					EA	\$ 105,000.00	0	\$ -
0054	4	48	ET-Exfiltration Trench			LF	\$ 250.00	5,811	\$ 1,452,750
0056	50	Weir Box CS				EA	\$ 7,500.00	0	\$ -
0057	53	CS-22 Remod				EA	\$ 200,000.00	0	\$ -
0058	55	SW-04 Remod				EA	\$ 150,000.00	0	\$ -
0055		Gravity Structures-Inlets				EA	\$ 30,000.00	51	\$ 1,527,750
0059	56	Ditch Improvement				LF	\$ 50.00	0	\$ -
0091	57	Swale/Ditch Headwall				Ea	\$ 10,000.00	0	\$ -
0090	10	Exfil_End Weir				Ea	\$ 5,000.00	0	\$ -
0092	51	Ret/Det Pond				CUY	\$ 355.00	0	\$ -
							#N/A		
							#N/A		
GRAVITY MAIN SUBTOTAL							#N/A		\$ 2,994,900
0060		Pavement Restoration including Pavement Marking (Full Road)				LF	\$ 270.00	6,111	\$ 1,649,970
CONSTRUCTION COST SUBTOTAL									\$ 4,644,870
GENERAL CONDITIONS								ridor South and Hollywood Gardes	
0061		Mobilization				LS	4%	\$ 4,644,870	\$ 185,795
0062		Insurance and General Conditions				LS	2%	\$ 4,644,870	\$ 92,897
0063		Permits/Fees				LS	2%	\$ 4,644,870	\$ 92,897
0064		Maintenance of Traffic				LS	3%	\$ 4,644,870	\$ 139,346
0065		Engineering Design & CA Oversight Costs				LS	15%	\$ 4,644,870	\$ 696,731
0066		Construction Engineering Inspection Costs				LS	4%	\$ 4,644,870	\$ 185,795
0067		OCI Management Cost				LS	15%	\$ 4,644,870	\$ 696,731
0068		Project Contingency Costs				LS	30%	\$ 4,644,870	\$ 1,393,461
Land acquisition									
NS SUBTOTAL									\$ 3,483,653
TOTAL									\$ 8,128,523

		CONCEPTUAL CAPITAL COST ESTIMATE						441 Corridor South and Hollywood Gardens West		
								Alternative 2		
PUMP STATIONS WITH FORCE MAINS										
ITEM #	Master Sheet Index	DIAMETER (INCHES)		DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL	
0001	13	24		FM- Force Main Collector	Circular	LF	\$ 167.00	0	\$ -	
0002	14	36		FM- Force Main Collector	Circular	LF	\$ 242.00	0	\$ -	
0003	15	42		FM- Force Main Collector	Circular	LF	\$ 336.00	0	\$ -	
0004	16	48		FM- Force Main Collector	Circular	LF	\$ 612.00	0	\$ -	
0005	17	54		FM- Force Main Collector	Circular	LF	\$ 982.00	0	\$ -	
0006	18	60		FM- Force Main Collector	Circular	LF	\$ 1,149.00	0	\$ -	
0007	19	66		FM- Force Main Collector	Circular	LF	\$ 1,329.00	0	\$ -	
0008	20	72		FM- Force Main Collector	Circular	LF	\$ 1,473.00	0	\$ -	
0009	225	24		FMO- Force Main Offline	Circular	LF	\$ 353.00	0	\$ -	
0010	11			IWI-Injection Wells-Inline		EA	\$ 65,000.00	0	\$ -	
0011	12			IWO-Injection Wells -Offline		EA	\$ 75,000.00	0	\$ -	
0012	6	PS-Storm Drainage Pump Stations < 166 cfs			I	EA	\$ 2,400,000.00	0	\$ -	
0013	7	PS-Storm Drainage Pump Stations < 166-246 cfs			II	EA	\$ 3,500,000.00	0	\$ -	
0014	8	PS-Storm Drainage Pump Stations < 246-328 cfs			III	EA	\$ 4,900,000.00	0	\$ -	
0015	9	PS-Storm Drainage Pump Stations< 328-410 cfs			IV	EA	\$ 6,750,000.00	0	\$ -	
0016	54	PS-CS22 Storm Drainage Pump Stations 600CFS				EA	\$ 8,000,000.00	0	\$ -	
NN SUBTOTAL									\$ -	
EXFILTRATION WITH GRAVITY MAINS								Corridor South and Hollywood Gardens		
ITEM #	Master Sheet Index	DIAMETER (INCHES)		Width(INCHES)	DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0022	22	21			GM-Gravity Main Collector	Circular	LF	\$ 45.00	0	\$ -
0021	21	18			GM-Gravity Main Collector	Circular	LF	\$ 45.00	0	\$ -
0023	23	24			GM-Gravity Main Collector	Circular	LF	\$ 48.00	300	\$ 14,400
0024	24	30			GM-Gravity Main Collector	Circular	LF	\$ 52.00	0	\$ -
0026	25	36			GM-Gravity Main Collector	Circular	LF	\$ 80.00	0	\$ -
0028	26	42			GM-Gravity Main Collector	Circular	LF	\$ 115.00	0	\$ -
0029	27	48			GM-Gravity Main Collector	Circular	LF	\$ 125.00	0	\$ -
0030	28	54			GM-Gravity Main Collector	Circular	LF	\$ 150.00	0	\$ -
0031	29	60			GM-Gravity Main Collector	Circular	LF	\$ 220.00	0	\$ -
0032	30	66			GM-Gravity Main Collector	Circular	LF	\$ 428.00	0	\$ -
0033	31	72			GM-Gravity Main Collector	Circular	LF	\$ 485.00	0	\$ -
0035	32	29	45		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 205.00	0	\$ -
0036	33	32	49		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 215.00	0	\$ -
0037	34	34	53		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 225.00	0	\$ -
0038	35	38	60		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 235.00	0	\$ -
0039	36	43	68		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 370.00	0	\$ -
0040	37	48	76		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 400.00	0	\$ -
0041	38	53	83		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 432.00	0	\$ -
0042	39	58	91		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 320.00	0	\$ -
0043	40	63	98		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 410.00	0	\$ -
0044	41	68	106		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 460.00	0	\$ -
0045	42	72	113		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 570.00	0	\$ -
0046	43	82	128		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 650.00	0	\$ -
0048	44	72	120		GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0072	45	72	72		GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0049	46	72	96		GM-Gravity Main Collector	Rectangle Closed	LF	\$ 750.00	0	\$ -
0050	47	96	96		GM-Gravity Main Collector	Rectangle Closed	LF	\$ 850.00	0	\$ -
0051	48				GBP-Gravity Backflow Pipe <36"		Ea	\$ 35,000.00	0	\$ -
0052	49				GBP-Gravity Backflow Pipe >36"		EA	\$ 70,000.00	0	\$ -
0053	5				GW-Gravity Wells		EA	\$ 105,000.00	0	\$ -
0054	4	48			ET-Exfiltration Trench		LF	\$ 250.00	2,965	\$ 741,250
0055	50				Weir Box CS		EA	\$ 30,000.00	0	\$ -
0057	53				CS-22 Remod		EA	\$ 525,000.00	0	\$ -
0058	55				SW-04 Remod		EA	\$ 150,000.00	0	\$ -
0056					Gravity Structures-Inlets		EA	\$ 7,500.00	27	\$ 204,063
0059	56				Ditch Improvement		LF	\$ 50.00	0	\$ -
0091	57				Swale/Ditch Headwall		Ea	\$ 10,000.00	0	\$ -
0090	10				Exfil. End Weir		Ea	\$ 5,000.00	0	\$ -
0092	51				Ret/Det Pond		CUY	\$ 355.00	0	\$ -
							#N/A	#VALUE!	#VALUE!	
							#N/A	#VALUE!	#VALUE!	
							#N/A	#VALUE!	#VALUE!	
GRAVITY MAIN SUBTOTAL									\$ 959,713	
0060		Pavement Restoration including Pavement Marking (Full Road)				LF	\$ 270.00	3,265	\$ 881,550	
CONSTRUCTION COST SUBTOTAL									\$ 1,841,263	
GENERAL CONDITIONS								Corridor South and Hollywood Gardens		
0061		Mobilization				LS	4%	\$ 1,841,263	\$ 73,651	
0062		Insurance and General Conditions				LS	2%	\$ 1,841,263	\$ 36,825	
0063		Permits/Fees				LS	2%	\$ 1,841,263	\$ 36,825	
0064		Maintenance of Traffic				LS	3%	\$ 1,841,263	\$ 55,238	
0065		Engineering Design & CA Oversight Costs				LS	15%	\$ 1,841,263	\$ 276,189	
0066		Construction Engineering Inspection Costs				LS	4%	\$ 1,841,263	\$ 73,651	
0067		OCI Management Cost				LS	15%	\$ 1,841,263	\$ 276,189	
0068		Project Contingency Costs				LS	30%	\$ 1,841,263	\$ 552,379	
NS SUBTOTAL									\$ 1,380,947	
TOTAL									\$ 3,222,207	

- **Figure HW-D6-6-CIP_ALT1_10 - Predicted Flooding Reduction and Proposed ALT1 CIP for 10-year Design Storm**
- **Figure HW-D6-6-CIP_ALT2_5 - Predicted Flooding Reduction and Proposed ALT2 CIP for 5-year Design Storm**
- **Figure HW-D6-6-CIP_ALT2_10 - Predicted Flooding Reduction and Proposed ALT2 CIP for 10-year Design Storm**
- **Table HW-D6-6_ALT1 – Planning Budget for Alternative 1 Proposed CIP**
- **Table HW-D6-6_ALT2 – Planning Budget for Alternative 2 Proposed CIP**

3.2.2.6 CIP Area HW-D6-5 (Beverly Park)

Root Causes of Flooding

This CIP area is characterized by mostly built-out, high impervious, mixed commercial and residential land use and has an insufficient and undersized existing drainage system. The area is bounded to the west by the Florida Turnpike and SR 441/SR 7 to the east and is partially served by their respective systems. Topography slopes from east to west and there are several low spots where flooding collects and only infiltrates until dissipation.

Alternative 1

Proposed CIP:

- New GaitherCC SWPS Type I at 150 cfs total pumping into the improved storage in the Orangebrook GC (see Section 3.2.2.12 CIP Area HC-D6-1 - Parkeast South) via twin 16,000 l.f. 60-inch FMs, located at an easement in the 6291 Funston St parcel.
- New gravity collection systems and inlets in CIP neighborhoods.
- New 38,416 l.f. of exfiltration systems in neighborhoods.

Summary of Locations Not Meeting ALT 1 LOS:

1. Structures Flooded pre-199, post-38.

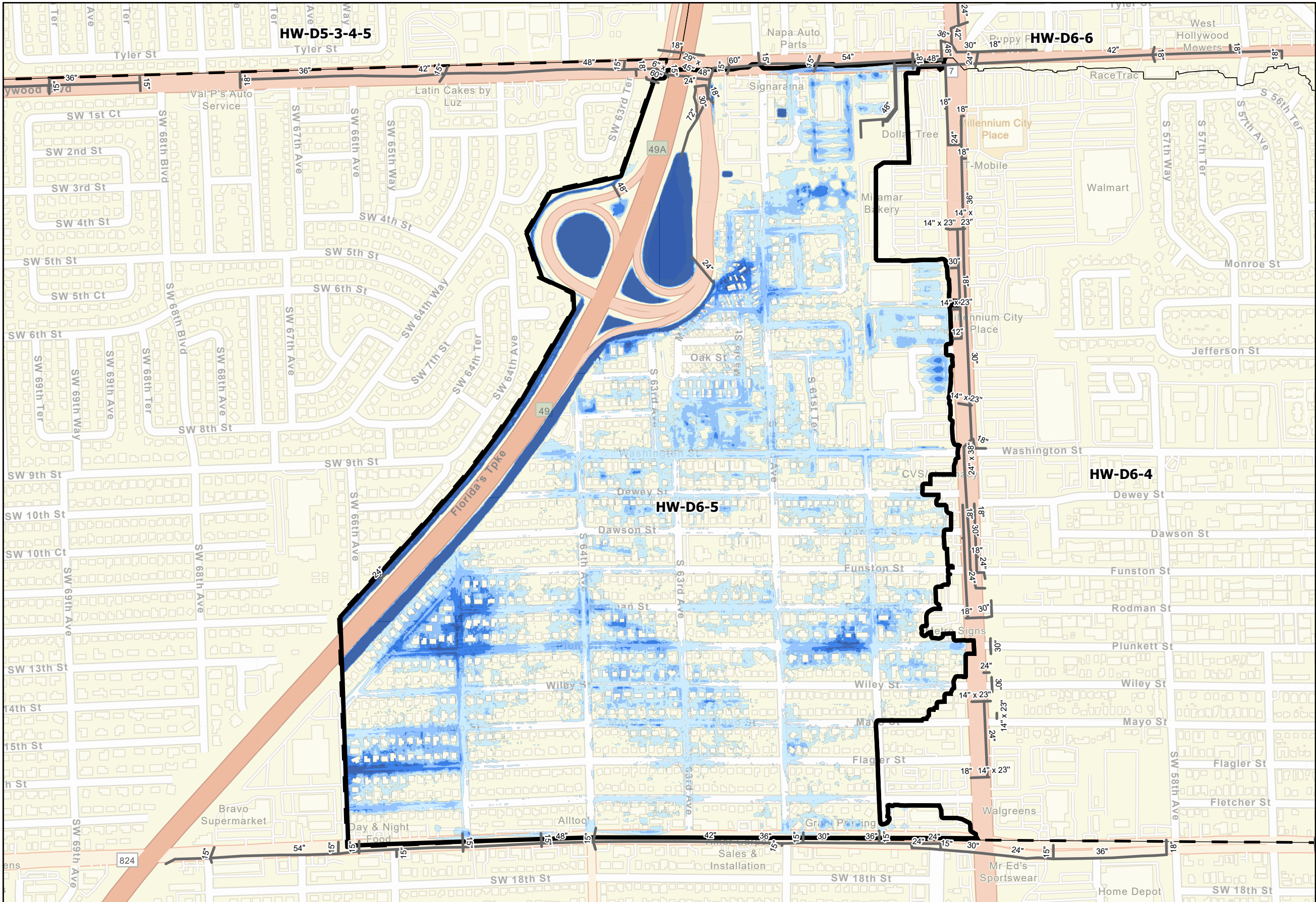
Summary of Offsite Issues Affecting CIP Area:

1. None.

Alternative 2

Proposed CIP:

- New Fletcher63 SWPS Type I at 100 cfs total pumping into the improved storage in the Orangebrook GC (see Section 3.2.2.12 CIP Area HC-D6-1 - Parkeast South) via a 14,800 l.f. of 48-inch FM, located in the empty lot in an easement on the corner of Fletcher St and S 63rd Ave parcel.
- New gravity collection systems and inlets in the CIP area neighborhoods.
- New 14,591 l.f. of exfiltration systems in the neighborhoods.

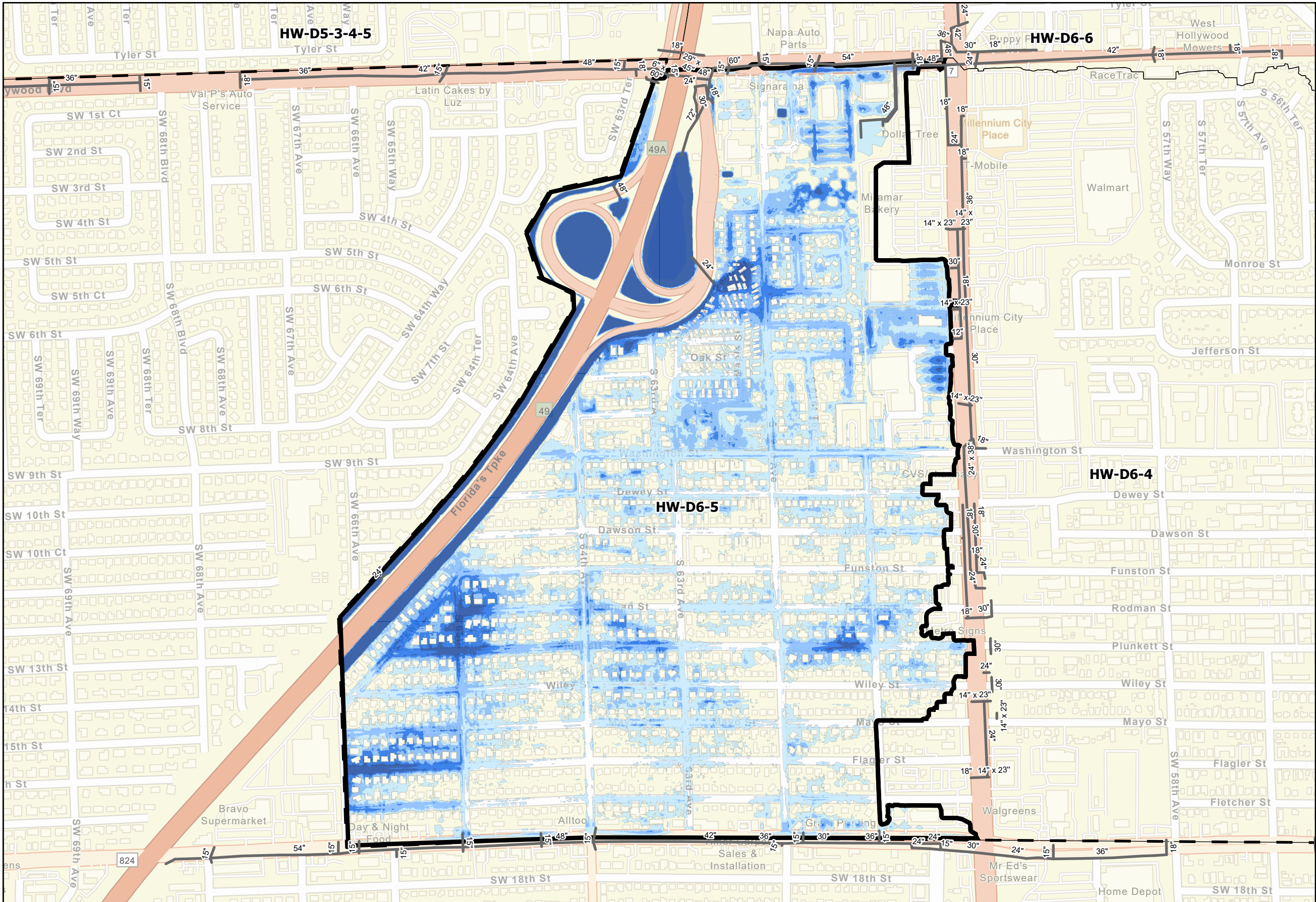


Legend

- Hollywood City Limits
- Focused CIP Area
- Existing SWPS
- Near Term SWPS
- Existing Gravity Pipes
- Existing Forcemains

5-Year 24-Hour Storm Flood Feet

- <= 0 ft.
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.

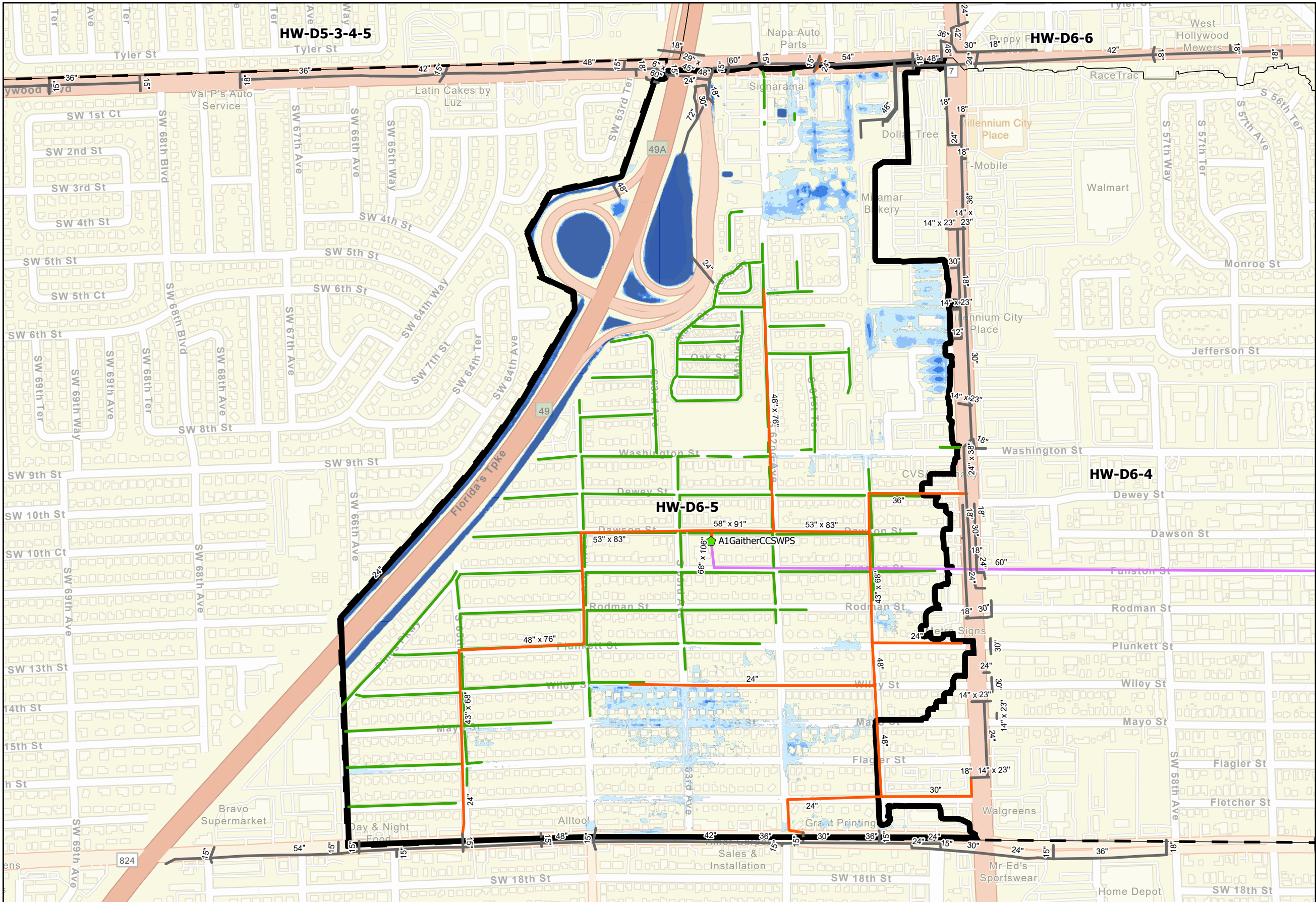


Legend

- Hollywood City Limits
- Focused CIP Area
- Existing SWPS
- Near Term SWPS
- Existing Gravity Pipes
- Existing Forcemains

10-Year 72-Hour Storm Flood Feet

- <= 0 ft.
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.



- Legend
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Alt 1 SWPS
 - Alt 1 Injection Wells
 - Existing Gravity Pipes
 - Existing Forcemains
 - Alt 1 Exfiltration Pipes
 - Alt 1 Gravity Pipes
 - Alt 1 Forcemains
 - Alt 1 Detention Pond

5-Year ALT 1 Storm Flood Feet

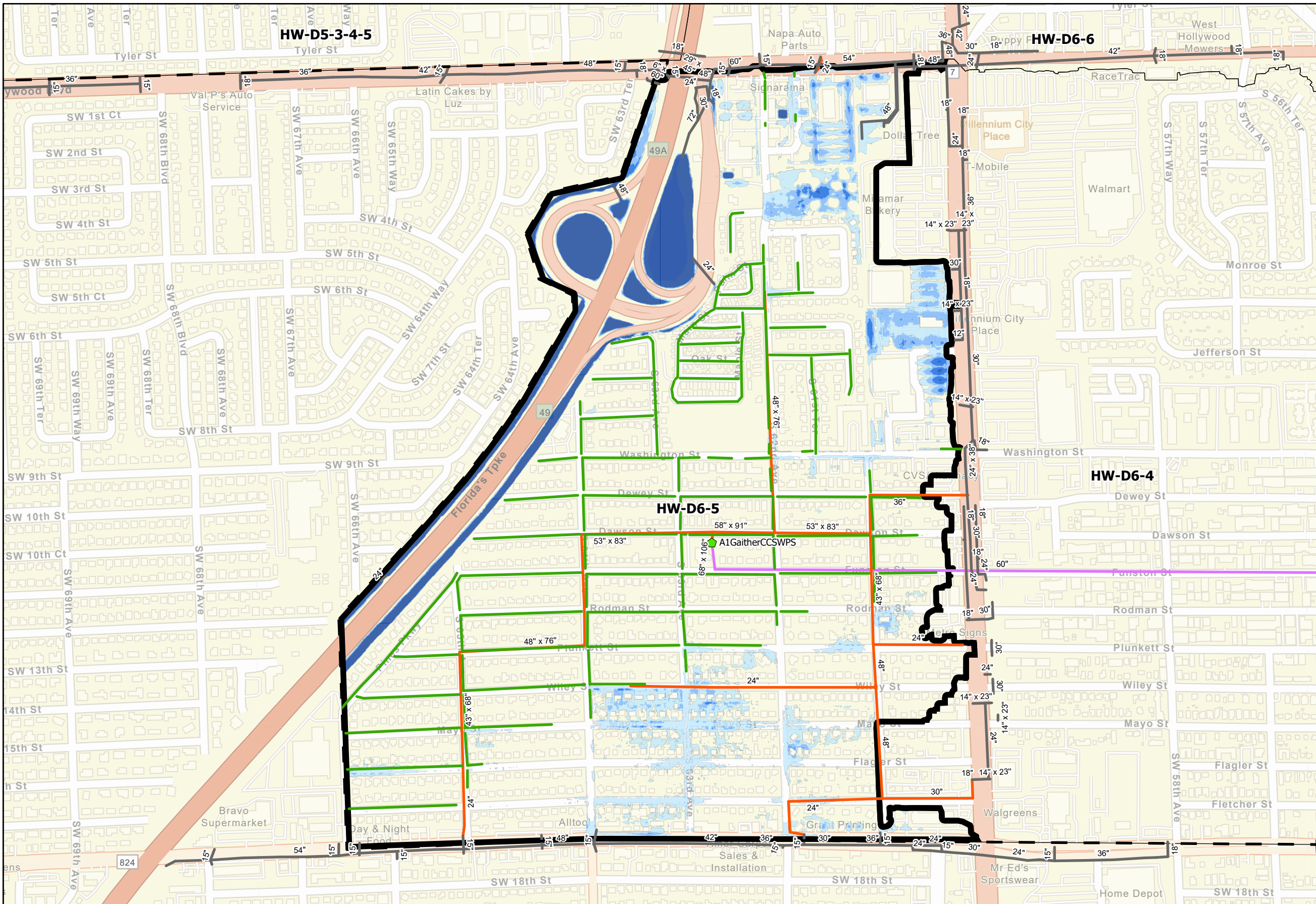
<= 0 ft.

0 - 0.5

0.5 - 1

1 - 1.5

> 1.5 ft.

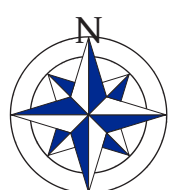


Legend

- Hollywood City Limits
- Focused CIP Area
- Existing SWPS
- Near Term SWPS
- Alt 1 SWPS
- Alt 1 Injection Wells
- Existing Gravity Pipes
- Existing Forcemains
- Alt 1 Exfiltration Pipes
- Alt 1 Gravity Pipes
- Alt 1 Forcemains
- Alt 1 Detention Pond

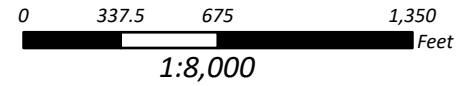
10-Year ALT 1 Storm Flood Feet

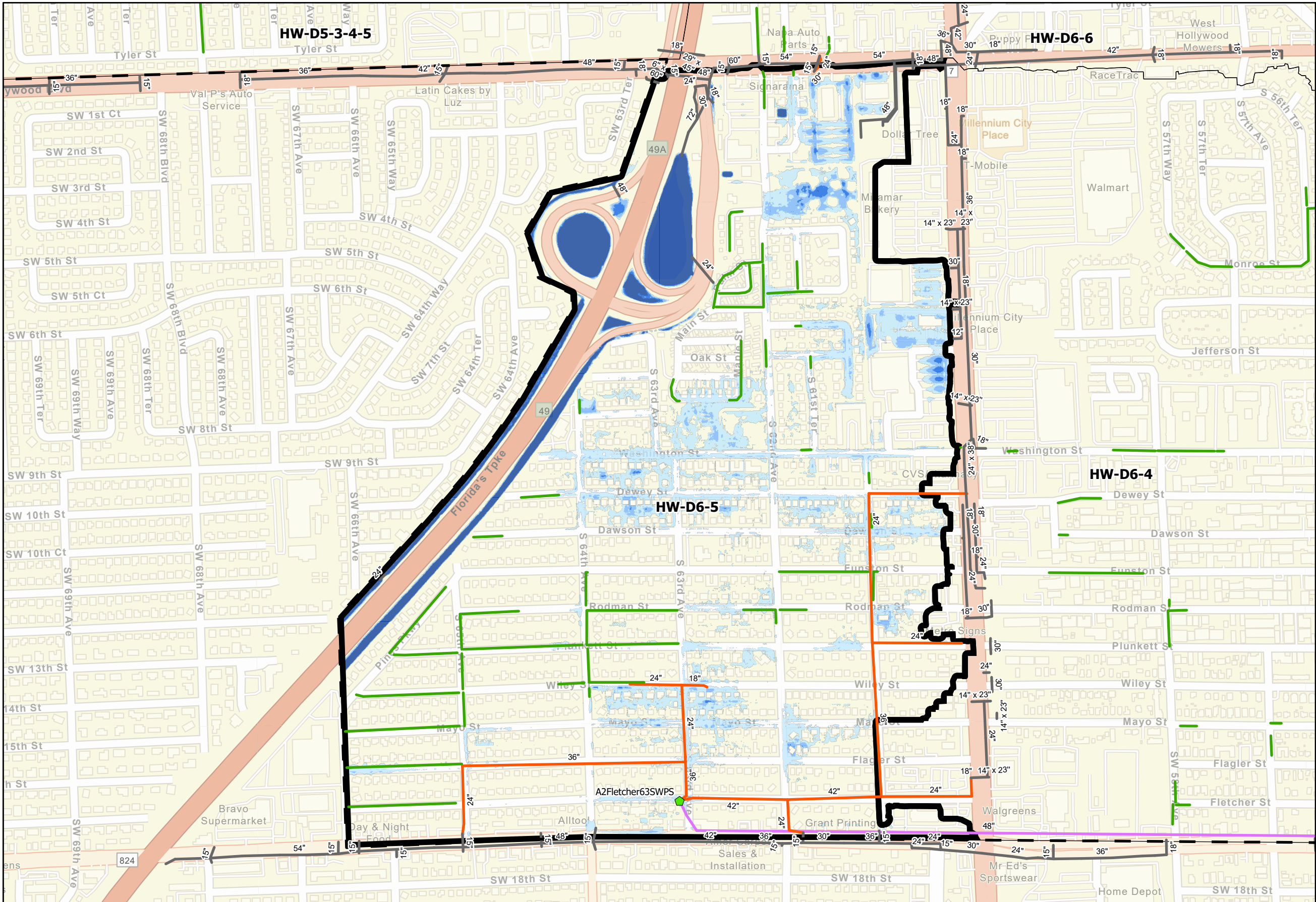
- <= 0 ft.
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.



Predicted Flooding Reduction and Proposed ALT 1 CIP for 10-year Design Storm in CIP Area
Beverly Park

City of Hollywood Stormwater Master Plan
HW-D6-5_ALT1-10
2/28/2023





- Legend
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Alt 2 SWPS
 - Alt 2 Injection Wells
 - Existing Gravity Pipes
 - Existing Forcemains
 - Alt 2 Exfiltration Pipe
 - Alt 2 Gravity Pipes
 - Alt 2 Forcemains
 - Alt 2 Detention Pond

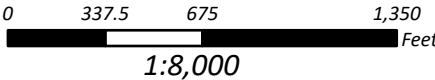
5-Year ALT 2 Storm Flood

- Feet
- <= 0 ft.
 - 0 - 0.5
 - 0.5 - 1
 - 1 - 1.5
 - > 1.5 ft.



Predicted Flooding Reduction and Proposed ALT 2
CIP for 5-year Design Storm in CIP Area
Beverly Park

City of Hollywood Stormwater Master Plan
HW-D6-5_ALT2-5
2/28/2023



			CONCEPTUAL CAPITAL COST ESTIMATE					D6_5 Beverly Park		
PUMP STATIONS WITH FORCE MAINS									Alternative 1	
ITEM #	Master Sheet Index	DIAMETER (INCHES)	DESCRIPTION		TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL	
0001	13	24	FM- Force Main Collector		Circular	LF	\$ 167.00	0	\$ -	
0002	14	36	FM- Force Main Collector		Circular	LF	\$ 242.00	0	\$ -	
0003	15	42	FM- Force Main Collector		Circular	LF	\$ 336.00	0	\$ -	
0004	16	48	FM- Force Main Collector		Circular	LF	\$ 612.00	0	\$ -	
0005	17	54	FM- Force Main Collector		Circular	LF	\$ 982.00	0	\$ -	
0006	18	60	FM- Force Main Collector		Circular	LF	\$ 1,149.00	32,000	\$ 36,768,000	
0007	19	66	FM- Force Main Collector		Circular	LF	\$ 1,329.00	0	\$ -	
0008	20	72	FM- Force Main Collector		Circular	LF	\$ 1,473.00	0	\$ -	
0009	225	24	FMO- Force Main Offline		Circular	LF	\$ 353.00	0	\$ -	
0010	11		IWI-Injection Wells-Inline		EA	\$ 65,000.00	0	\$ -		
0011	12		IWO-Injection Wells -Offline		EA	\$ 75,000.00	0	\$ -		
0012	6	PS-Storm Drainage Pump Stations < 166 cfs			I	EA	\$ 2,400,000.00	1	\$ 2,400,000	
0013	7	PS-Storm Drainage Pump Stations < 166-246 cfs			II	EA	\$ 3,500,000.00	0	\$ -	
0014	8	PS-Storm Drainage Pump Stations < 246-328 cfs			III	EA	\$ 4,900,000.00	0	\$ -	
0015	9	PS-Storm Drainage Pump Stations< 328-410 cfs			IV	EA	\$ 6,750,000.00	0	\$ -	
0016	54	PS-CS22 Storm Drainage Pump Stations 600CFS			EA	\$ 8,000,000.00	0	\$ -		
NN SUBTOTAL									\$ 39,168,000	
EXFILTRATION WITH GRAVITY MAINS									D6_5 Beverly Park	
ITEM #	Master Sheet Index	DIAMETER (INCHES)	Width(INCHES)	DESCRIPTION		TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0020	21	15		GM-Gravity Main Collector		Circular	LF	\$ 40.00	0	\$ -
0021	22	18		GM-Gravity Main Collector		Circular	LF	\$ 45.00	0	\$ -
0023	23	24		GM-Gravity Main Collector		Circular	LF	\$ 48.00	3,780	\$ 181,440
0024	24	30		GM-Gravity Main Collector		Circular	LF	\$ 52.00	750	\$ 39,000
0026	25	36		GM-Gravity Main Collector		Circular	LF	\$ 80.00	945	\$ 75,600
0028	26	42		GM-Gravity Main Collector		Circular	LF	\$ 115.00	0	\$ -
0029	27	48		GM-Gravity Main Collector		Circular	LF	\$ 125.00	1,070	\$ 133,750
0030	28	54		GM-Gravity Main Collector		Circular	LF	\$ 150.00	0	\$ -
0031	29	60		GM-Gravity Main Collector		Circular	LF	\$ 220.00	0	\$ -
0032	30	66		GM-Gravity Main Collector		Circular	LF	\$ 428.00	0	\$ -
0033	31	72		GM-Gravity Main Collector		Circular	LF	\$ 485.00	0	\$ -
0035	32	29	45	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 205.00	0	\$ -
0036	33	32	49	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 215.00	0	\$ -
0037	34	34	53	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 225.00	0	\$ -
0038	35	38	60	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 235.00	0	\$ -
0039	36	43	68	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 370.00	1,565	\$ 579,050
0040	37	48	76	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 400.00	2,790	\$ 1,116,000
0041	38	53	83	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 432.00	2,075	\$ 896,400
0042	39	58	91	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 320.00	425	\$ 136,000
0043	40	63	98	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 410.00	0	\$ -
0044	41	68	106	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 460.00	150	\$ 69,000
0045	42	72	113	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 570.00	0	\$ -
0046	43	82	128	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 650.00	0	\$ -
0048	44	72	120	GM-Gravity Main Collector		Rectangle Closed	LF	\$ 570.00	0	\$ -
0072	45	72	72	GM-Gravity Main Collector		Rectangle Closed	LF	\$ 570.00	0	\$ -
0049	46	84	120	GM-Gravity Main Collector		Rectangle Closed	LF	\$ 750.00	0	\$ -
0050	47	96	96	GM-Gravity Main Collector		Rectangle Closed	LF	\$ 850.00	0	\$ -
0051	48				GBP-Gravity Backflow Pipe <36"	Ea	\$ 35,000.00	0	\$ -	
0052	49				GBP-Gravity Backflow Pipe >36"	Ea	\$ 70,000.00	0	\$ -	
0053	5				GW-Gravity Wells	EA	\$ 105,000.00	0	\$ -	
0054	4	48	ET-Exfiltration Trench			LF	\$ 250.00	38,615	\$ 9,653,750	
0056	50				Weir Box CS	EA	\$ 7,500.00	0	\$ -	
0057	53				CS-22 Remod	EA	\$ 200,000.00	0	\$ -	
0058	55				SW-04 Remod	EA	\$ 150,000.00	0	\$ -	
0055					Gravity Structures-Inlets	EA	\$ 30,000.00	499	\$ 14,961,250	
0059	56				Ditch Improvement	LF	\$ 50.00	0	\$ -	
0091	57				Swale/Ditch Headwall	Ea	\$ 10,000.00	0	\$ -	
0090	10				Exfil_End Weir	Ea	\$ 5,000.00	0	\$ -	
0092	51				Ret/Det Pond	CUY	\$ 355.00	0	\$ -	
							#N/A			
							#N/A			
GRAVITY MAIN SUBTOTAL							#N/A		\$ 27,841,240	
0060		Pavement Restoration including Pavement Marking (Full Road)				LF	\$ 270.00	84,165	\$ 22,724,550	
CONSTRUCTION COST SUBTOTAL									\$ 89,733,790	
GENERAL CONDITIONS									D6_5 Beverly Park	
0061		Mobilization				LS	4%	\$ 89,733,790	\$ 3,589,352	
0062		Insurance and General Conditions				LS	2%	\$ 89,733,790	\$ 1,794,676	
0063		Permits/Fees				LS	2%	\$ 89,733,790	\$ 1,794,676	
0064		Maintenance of Traffic				LS	3%	\$ 89,733,790	\$ 2,692,014	
0065		Engineering Design & CA Oversight Costs				LS	15%	\$ 89,733,790	\$ 13,460,069	
0066		Construction Engineering Inspection Costs				LS	4%	\$ 89,733,790	\$ 3,589,352	
0067		OCI Management Cost				LS	15%	\$ 89,733,790	\$ 13,460,069	
0068		Project Contingency Costs				LS	30%	\$ 89,733,790	\$ 26,920,137	
Land acquisition										
NS SUBTOTAL									\$ 67,300,343	
TOTAL									\$ 157,034,133	

		CONCEPTUAL CAPITAL COST ESTIMATE							D6_5 Beverly Park			
PUMP STATIONS WITH FORCE MAINS											Alternative 2	
ITEM #	Master Sheet Index	DIAMETER (INCHES)			DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL		
0001	13	24			FM- Force Main Collector	Circular	LF	\$ 167.00	0	\$ -		
0002	14	36			FM- Force Main Collector	Circular	LF	\$ 242.00	0	\$ -		
0003	15	42			FM- Force Main Collector	Circular	LF	\$ 336.00	0	\$ -		
0004	16	48			FM- Force Main Collector	Circular	LF	\$ 612.00	14,800	\$ 9,057,600		
0005	17	54			FM- Force Main Collector	Circular	LF	\$ 982.00	0	\$ -		
0006	18	60			FM- Force Main Collector	Circular	LF	\$ 1,149.00	0	\$ -		
0007	19	66			FM- Force Main Collector	Circular	LF	\$ 1,329.00	0	\$ -		
0008	20	72			FM- Force Main Collector	Circular	LF	\$ 1,473.00	0	\$ -		
0009	225	24			FMO- Force Main Offline	Circular	LF	\$ 353.00	0	\$ -		
0010	11				IWI-Injection Wells-Inline		EA	\$ 65,000.00	0	\$ -		
0011	12				IWO-Injection Wells -Offline		EA	\$ 75,000.00	0	\$ -		
0012	6	PS-Storm Drainage Pump Stations < 166 cfs				I	EA	\$ 2,400,000.00	1	\$ 2,400,000		
0013	7	PS-Storm Drainage Pump Stations < 166-246 cfs				II	EA	\$ 3,500,000.00	0	\$ -		
0014	8	PS-Storm Drainage Pump Stations < 246-328 cfs				III	EA	\$ 4,900,000.00	0	\$ -		
0015	9	PS-Storm Drainage Pump Stations< 328-410 cfs				IV	EA	\$ 6,750,000.00	0	\$ -		
0016	54	PS-CS22 Storm Drainage Pump Stations 600CFS					EA	\$ 8,000,000.00	0	\$ -		
IN SUBTOTAL										\$ 11,457,600		
EXFILTRATION WITH GRAVITY MAINS											D6_5 Beverly Park	
ITEM #	Master Sheet Index	DIAMETER (INCHES)	Width(INCHES)	DESCRIPTION		TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL		
0022	22	21			GM-Gravity Main Collector	Circular	LF	\$ 45.00	0	\$ -		
0021	21	18			GM-Gravity Main Collector	Circular	LF	\$ 45.00	200	\$ 9,000		
0023	23	24			GM-Gravity Main Collector	Circular	LF	\$ 48.00	4,740	\$ 227,520		
0024	24	30			GM-Gravity Main Collector	Circular	LF	\$ 52.00	50	\$ 2,600		
0026	25	36			GM-Gravity Main Collector	Circular	LF	\$ 80.00	2,920	\$ 233,600		
0028	26	42			GM-Gravity Main Collector	Circular	LF	\$ 115.00	1,400	\$ 161,000		
0029	27	48			GM-Gravity Main Collector	Circular	LF	\$ 125.00	0	\$ -		
0030	28	54			GM-Gravity Main Collector	Circular	LF	\$ 150.00	0	\$ -		
0031	29	60			GM-Gravity Main Collector	Circular	LF	\$ 220.00	0	\$ -		
0032	30	66			GM-Gravity Main Collector	Circular	LF	\$ 428.00	0	\$ -		
0033	31	72			GM-Gravity Main Collector	Circular	LF	\$ 485.00	0	\$ -		
0035	32	29	45		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 205.00	0	\$ -		
0036	33	32	49		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 215.00	0	\$ -		
0037	34	34	53		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 225.00	0	\$ -		
0038	35	38	60		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 235.00	0	\$ -		
0039	36	43	68		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 370.00	0	\$ -		
0040	37	48	76		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 400.00	0	\$ -		
0041	38	53	83		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 432.00	0	\$ -		
0042	39	58	91		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 320.00	0	\$ -		
0043	40	63	98		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 410.00	0	\$ -		
0044	41	68	106		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 460.00	0	\$ -		
0045	42	72	113		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 570.00	0	\$ -		
0046	43	82	128		GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 650.00	0	\$ -		
0048	44	72	120		GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -		
0072	45	72	72		GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -		
0049	46	72	96		GM-Gravity Main Collector	Rectangle Closed	LF	\$ 750.00	0	\$ -		
0050	47	96	96		GM-Gravity Main Collector	Rectangle Closed	LF	\$ 850.00	0	\$ -		
0051	48					GBP-Gravity Backflow Pipe <36"	Ea	\$ 35,000.00	0	\$ -		
0052	49					GBP-Gravity Backflow Pipe >36"	Ea	\$ 70,000.00	0	\$ -		
0053	5					GW-Gravity Wells	EA	\$ 105,000.00	0	\$ -		
0054	4	48					ET-Exfiltration Trench	LF	\$ 250.00	14,591	\$ 3,647,750	
0055	50					Weir Box CS	EA	\$ 30,000.00	0	\$ -		
0057	53					CS-22 Remod	EA	\$ 525,000.00	0	\$ -		
0058	55					SW-04 Remod	EA	\$ 150,000.00	0	\$ -		
0056						Gravity Structures-Inlets	EA	\$ 7,500.00	229	\$ 1,715,813		
0059	56					Ditch Improvement	LF	\$ 50.00	0	\$ -		
0091	57					Swale/Ditch Headwall	Ea	\$ 10,000.00	0	\$ -		
0090	10					Exfil End Weir	Ea	\$ 5,000.00	0	\$ -		
0092	51					Ret/Det Pond	CUY	\$ 355.00	0	\$ -		
							#N/A	#VALUE!	#VALUE!			
							#N/A	#VALUE!	#VALUE!			
							#N/A	#VALUE!	#VALUE!			
GRAVITY MAIN SUBTOTAL									\$ 5,997,283			
0060		Pavement Restoration including Pavement Marking (Full Road)					LF	\$ 270.00	38,701	\$ 10,449,270		
CONSTRUCTION COST SUBTOTAL										\$ 27,904,153		
GENERAL CONDITIONS											D6_5 Beverly Park	
0061		Mobilization					LS	4%	\$ 27,904,153	\$ 1,116,166		
0062		Insurance and General Conditions					LS	2%	\$ 27,904,153	\$ 558,083		
0063		Permits/Fees					LS	2%	\$ 27,904,153	\$ 558,083		
0064		Maintenance of Traffic					LS	3%	\$ 27,904,153	\$ 837,125		
0065		Engineering Design & CA Oversight Costs					LS	15%	\$ 27,904,153	\$ 4,185,623		
0066		Construction Engineering Inspection Costs					LS	4%	\$ 27,904,153	\$ 1,116,166		
0067		OCI Management Cost					LS	15%	\$ 27,904,153	\$ 4,185,623		
0068		Project Contingency Costs					LS	30%	\$ 27,904,153	\$ 8,371,246		
NS SUBTOTAL										\$ 20,928,114		
TOTAL										\$ 48,832,267		

Summary of Locations Not Meeting ALT 2 LOS:

1. Structures Flooded pre-199, post-101.

Summary of Offsite Issues Affecting CIP Area:

1. None.

HW-D6-5 Pre-Post CIP Flood Inundation Maps

The following figures provide the predicted existing conditions flooding for the 5- and 10-year storm in the CIP Area and the predicted flood reduction for these storms under the Alternatives 1 and 2 CIP:

- **Figure HW-D6-5-EC_5 - Current Conditions Flooding in CIP Area 5-year Design Storm**
- **Figure HW-D6-5-EC_10 - Current Conditions Flooding in CIP Area 10-year Design Storm**
- **Figure HW-D6-5-CIP_ALT1_5 - Predicted Flooding Reduction and Proposed ALT1 CIP for 5-year Design Storm**
- **Figure HW-D6-5-CIP_ALT1_10 - Predicted Flooding Reduction and Proposed ALT1 CIP for 10-year Design Storm**
- **Figure HW-D6-5-CIP_ALT2_5 - Predicted Flooding Reduction and Proposed ALT2 CIP for 5-year Design Storm**
- **Figure HW-D6-5-CIP_ALT2_10 - Predicted Flooding Reduction and Proposed ALT2 CIP for 10-year Design Storm**
- **Table HW-D6-5_ALT1 – Planning Budget for Alternative 1 Proposed CIP**
- **Table HW-D6-5_ALT2 – Planning Budget for Alternative 2 Proposed CIP**

3.2.2.7 CIP Area HW-D6-4 (Lawn Acres / Washington Park)

Root Causes of Flooding

This CIP area is characterized by mostly built-out, high impervious, primarily industrial and commercial land use and has an insufficient and undersized existing drainage system consisting of sporadic exfiltration systems. The ground surface is generally high and flat and water tends to pond and not move away from the area. The FDOT and private systems are working well for their portions of the service area.

Alternative 1

Proposed CIP:

- New 9,283 l.f. of exfiltration systems in neighborhoods.

Summary of Locations Not Meeting ALT 1 LOS:

1. Structures Flooded pre-14, post-9.

2. FDOT Pembroke Rd flooding at S 57th Ave. to be addressed by FDOT.
3. Low private parking lot in Hidden Court apartment complex will flood.

Summary of Offsite Issues Affecting CIP Area:

1. None.

Alternative 2

Summary of Alternative 2 LOS CIP:

- New 5,614 l.f. of exfiltration systems in neighborhoods.

Summary of Locations Not Meeting ALT 2 LOS:

1. Structures Flooded pre-14, post-12.
2. FDOT Pembroke Rd flooding at S 57th Ave. to be addressed by FDOT.
3. Low parking lot in private apartment complex Hidden Court will flood.

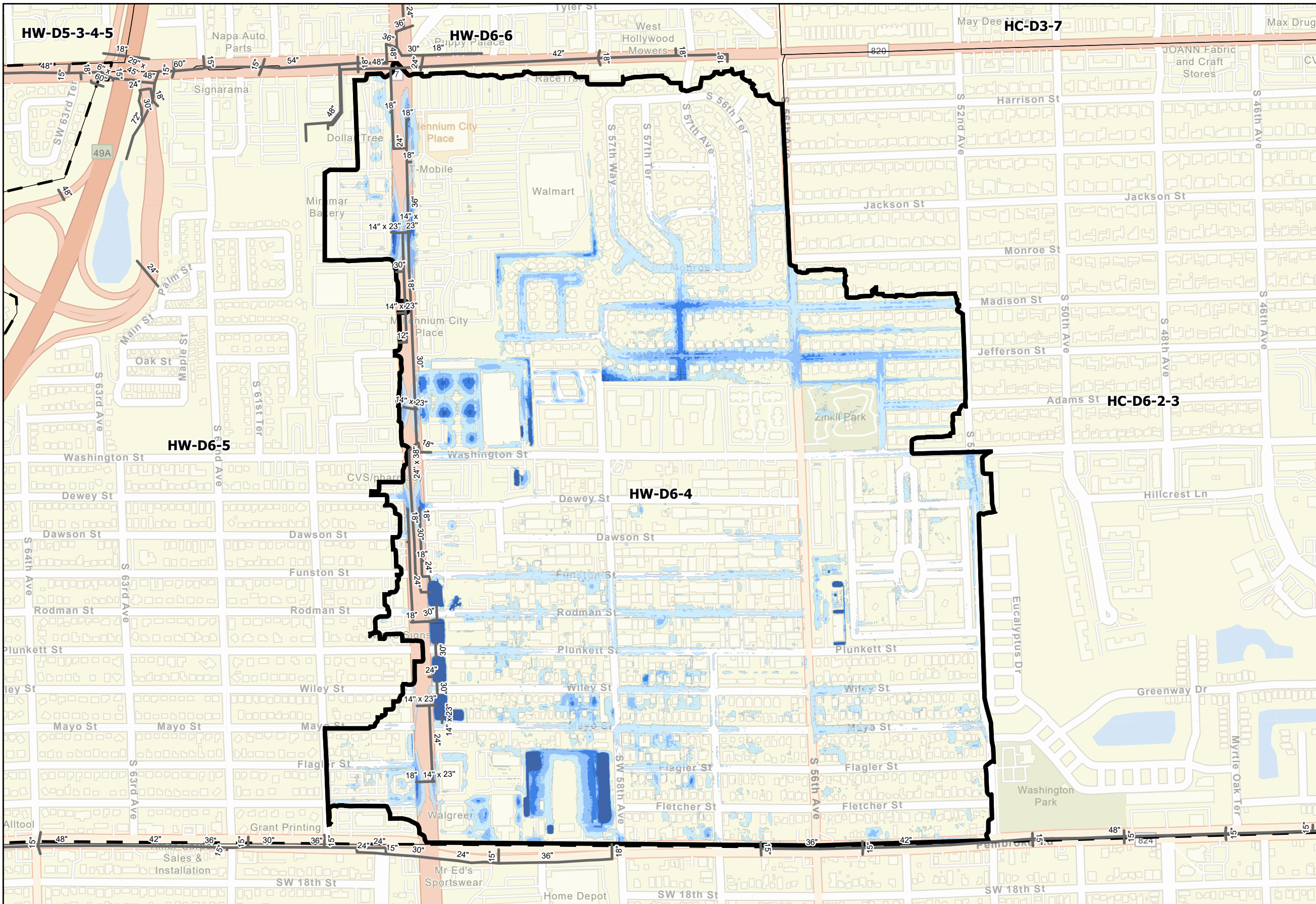
Summary of Offsite Issues Affecting CIP Area:

1. None.

HW-D6-4 Pre-Post CIP Flood Inundation Maps

The following figures provide the predicted existing conditions flooding for the 5- and 10-year storm in the CIP Area and the predicted flood reduction for these storms under the Alternatives 1 and 2 CIP:

- **Figure HW-D6-4-EC_5 - Current Conditions Flooding in CIP Area 5-year Design Storm**
- **Figure HW-D6-4-EC_10 - Current Conditions Flooding in CIP Area 10-year Design Storm**
- **Figure HW-D6-4-CIP_ALT1_5 - Predicted Flooding Reduction and Proposed ALT1 CIP for 5-year Design Storm**
- **Figure HW-D6-4-CIP_ALT1_10 - Predicted Flooding Reduction and Proposed ALT1 CIP for 10-year Design Storm**
- **Figure HW-D6-4-CIP_ALT2_5 - Predicted Flooding Reduction and Proposed ALT2 CIP for 5-year Design Storm**
- **Figure HW-D6-4-CIP_ALT2_10 - Predicted Flooding Reduction and Proposed ALT2 CIP for 10-year Design Storm**
- **Table HW-D6-4_ALT1 - Planning Budget for Alternative 1 Proposed CIP**
- **Table HW-D6-4_ALT2 - Planning Budget for Alternative 2 Proposed CIP**



Legend

- Hollywood City Limits
- Focused CIP Area
- Existing SWPS
- Near Term SWPS
- Existing Gravity Pipes
- Existing Forcemains

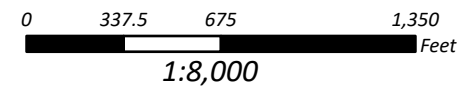
5-Year 24-Hour Storm Flood Feet

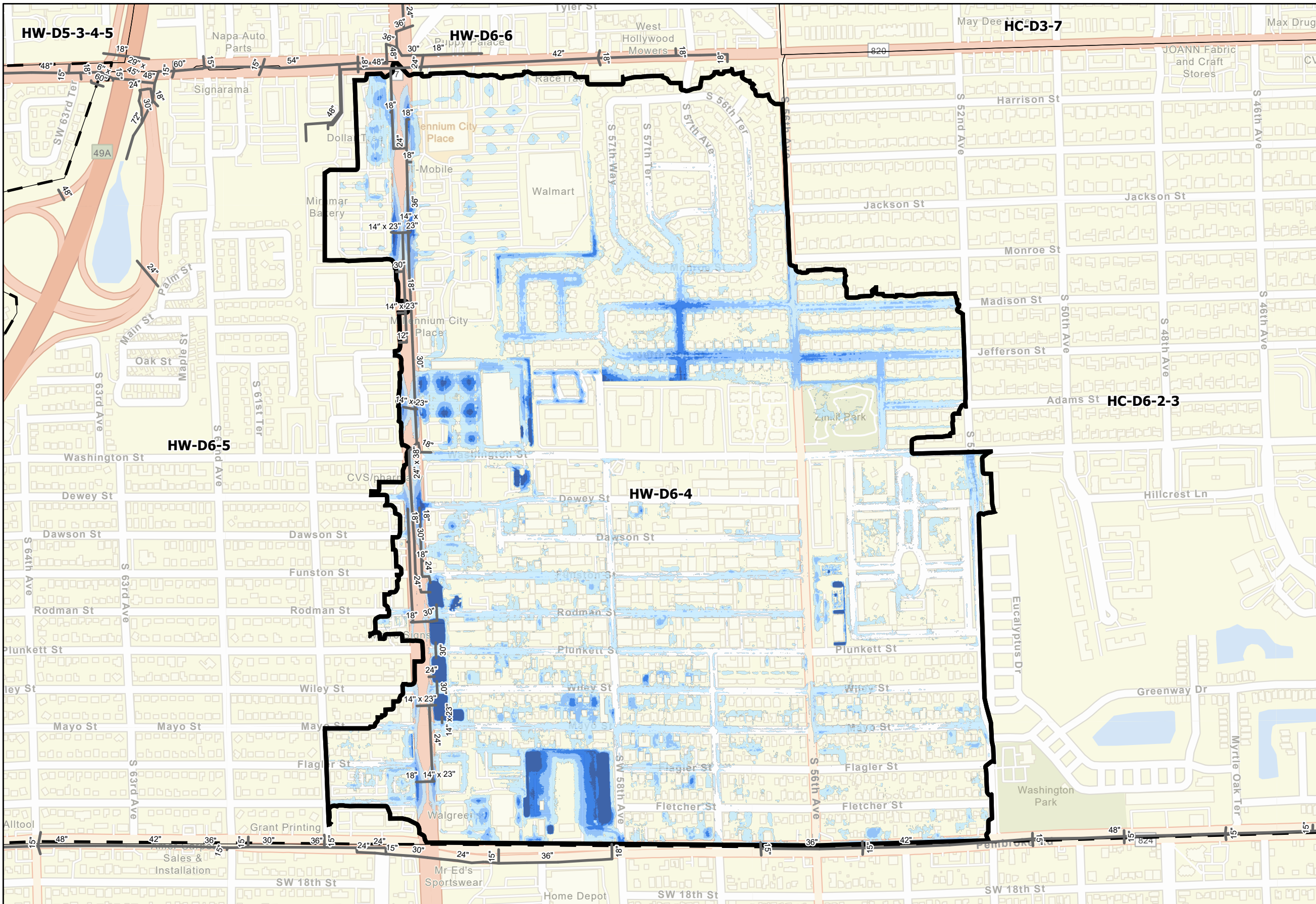
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	0 - 0.5
	0.5 - 1
	1 - 1.5
	> 1.5 ft.



Current Conditions Flooding in CIP Area
Lawn Acres / Washington Park
5-year Design Storm

City of Hollywood Stormwater Master Plan
HW-D6-4_EC-5
2/28/2023





Legend

- Hollywood City Limits
- Focused CIP Area
- Existing SWPS
- Near Term SWPS
- Existing Gravity Pipes
- Existing Forcemains

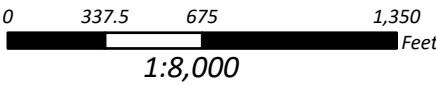
10-Year 72-Hour Storm Flood Feet

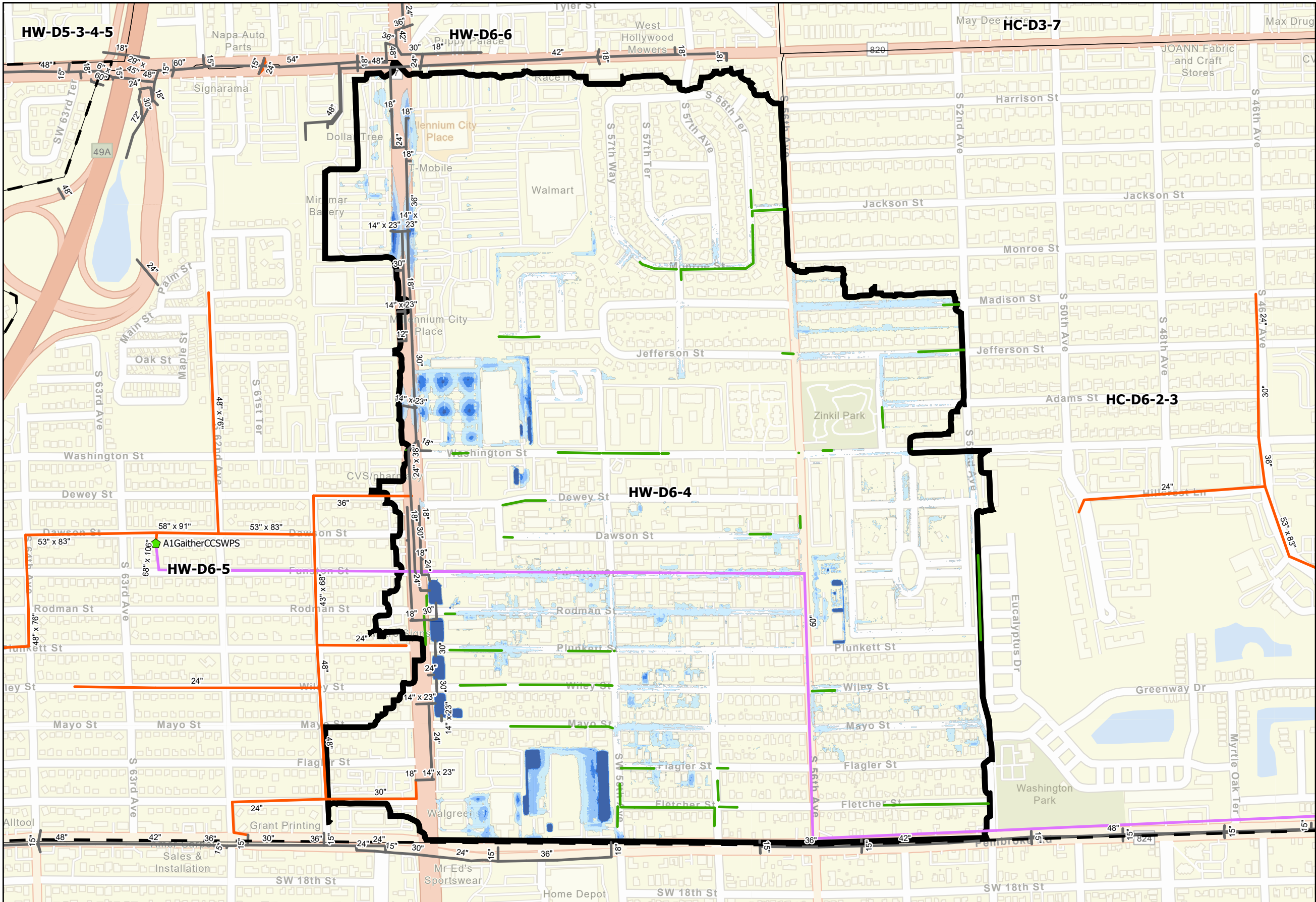
- <= 0 ft.
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.



Current Conditions Flooding in CIP Area
 Lawn Acres / Washington Park
 10-year Design Storm

City of Hollywood Stormwater Master Plan
 HW-D6-4_EC-10
 2/28/2023





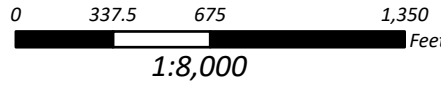
- Legend
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Alt 1 SWPS
 - Alt 1 Injection Wells
 - Existing Gravity Pipes
 - Existing Forcemains
 - Alt 1 Exfiltration Pipes
 - Alt 1 Gravity Pipes
 - Alt 1 Forcemains
 - Alt 1 Detention Pond

5-Year ALT 1 Storm Flood Feet

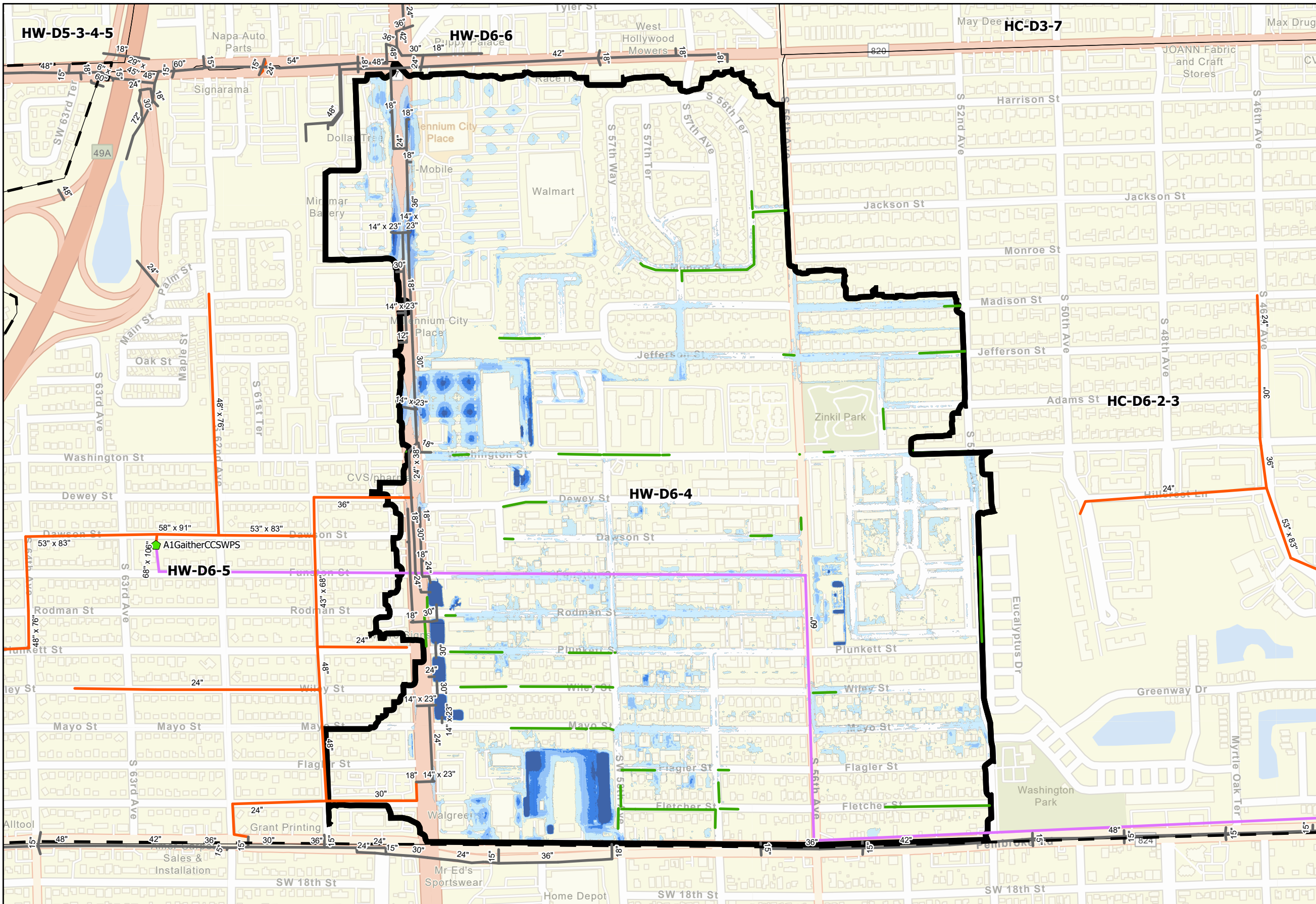
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- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.



Predicted Flooding Reduction and Proposed ALT 1
CIP for 5-year Design Storm in CIP Area
Lawn Acres / Washington Park



City of Hollywood Stormwater Master Plan
HW-D6-4_ALT1-5
2/28/2023



Legend

- Hollywood City Limits
- Focused CIP Area
- Existing SWPS
- Near Term SWPS
- Alt 1 SWPS
- Alt 1 Injection Wells
- Existing Gravity Pipes
- Existing Forcemains
- Alt 1 Exfiltration Pipes
- Alt 1 Gravity Pipes
- Alt 1 Forcemains
- Alt 1 Detention Pond

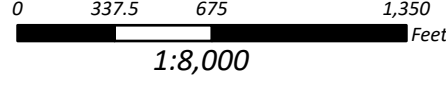
10-Year ALT 1 Storm Flood Feet

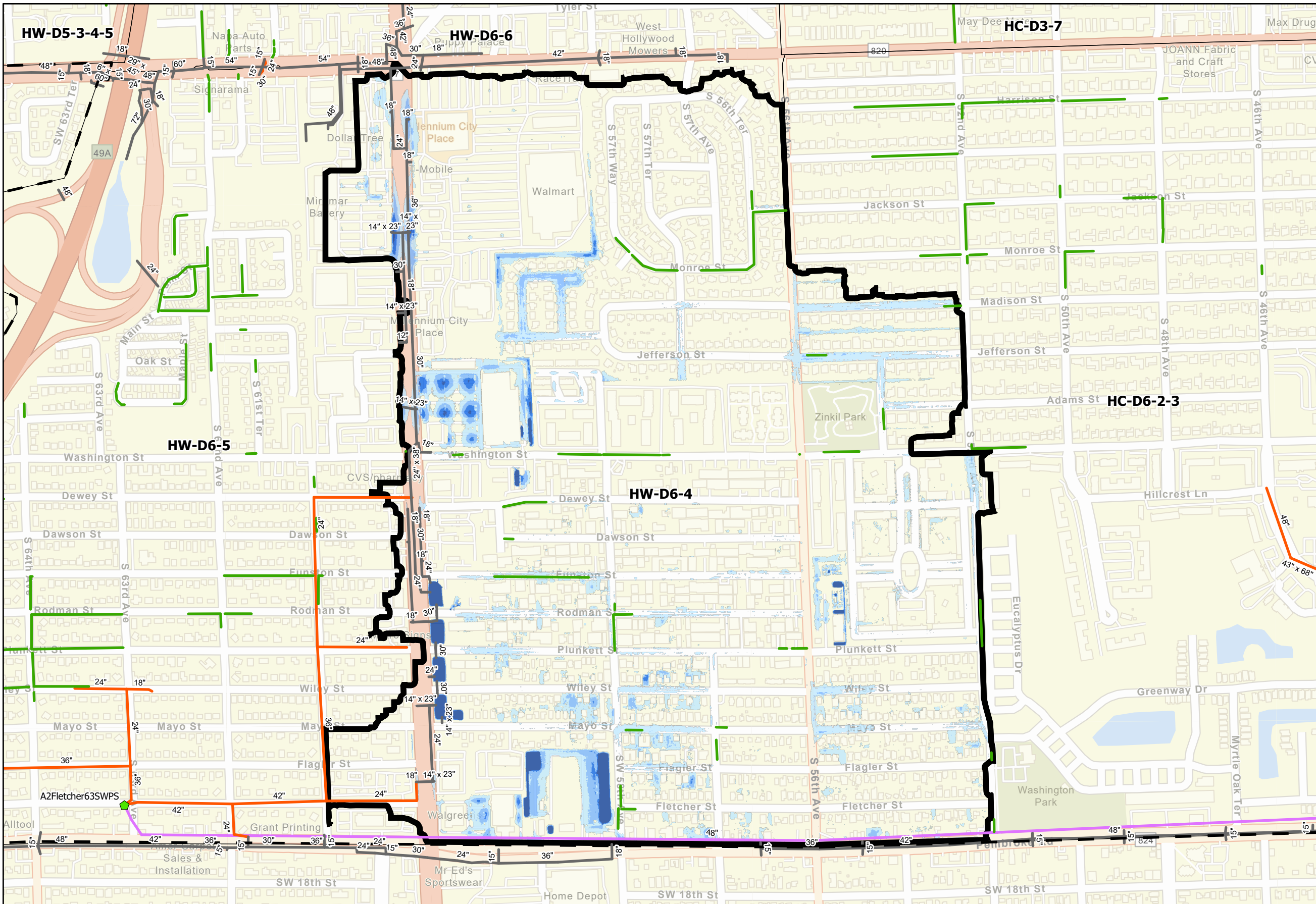
- <= 0 ft.
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.



Predicted Flooding Reduction and Proposed ALT 1
CIP for 10-year Design Storm in CIP Area
Lawn Acres / Washington Park

City of Hollywood Stormwater Master Plan
HW-D6-4_ALT1-10
2/28/2023





Legend

- Hollywood City Limits
- Focused CIP Area
- Existing SWPS
- Near Term SWPS
- Alt 2 SWPS
- Alt 2 Injection Wells
- Existing Gravity Pipes
- Existing Forcemains
- Alt 2 Exfiltration Pipe
- Alt 2 Gravity Pipes
- Alt 2 Forcemains
- Alt 2 Detention Pond

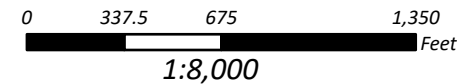
5-Year ALT 2 Storm Flood Feet

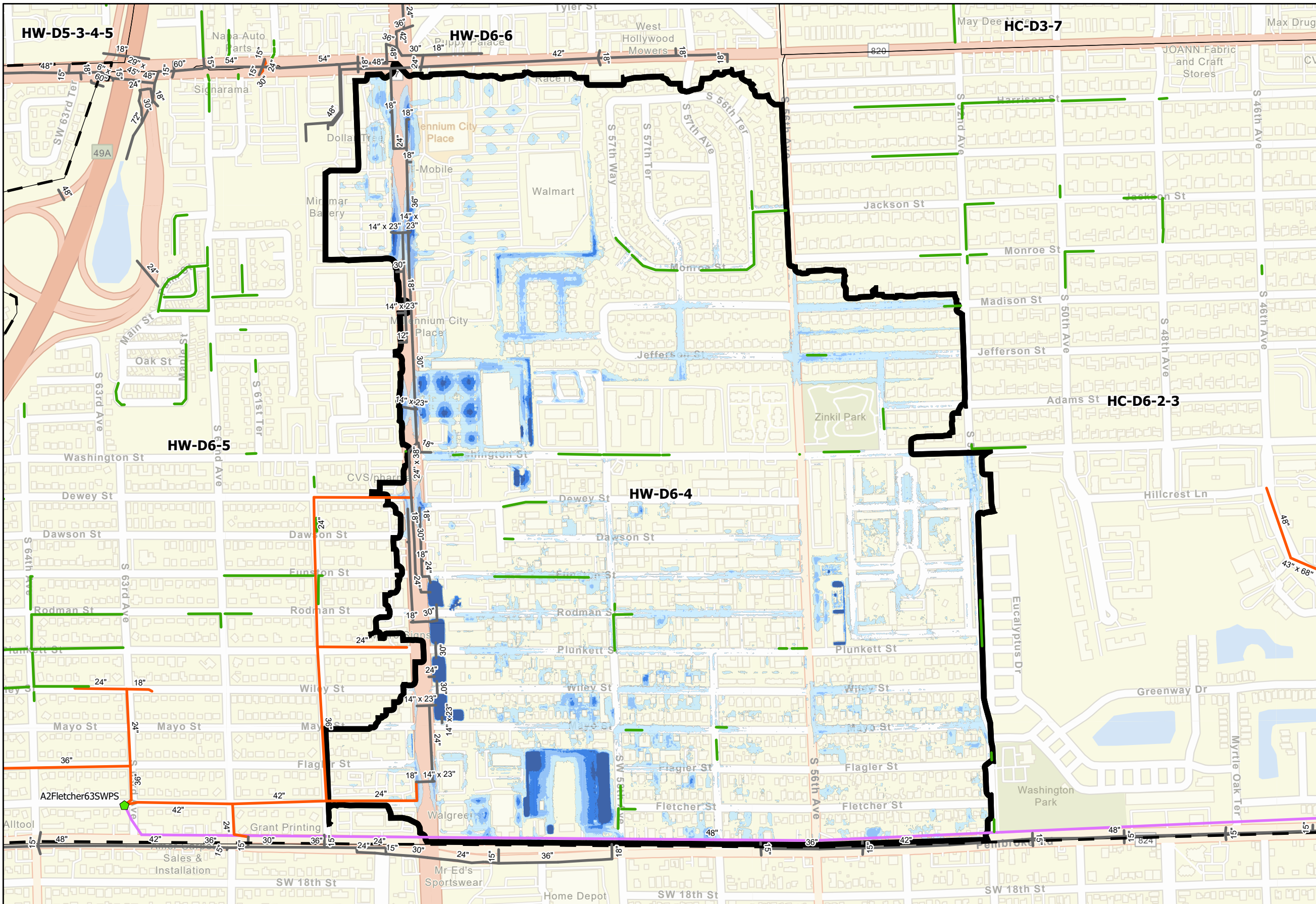
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- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.



Predicted Flooding Reduction and Proposed ALT 2
CIP for 5-year Design Storm in CIP Area
Lawn Acres / Washington Park

City of Hollywood Stormwater Master Plan
HW-D6-4_ALT2-5
2/28/2023





Legend

- Hollywood City Limits
- Focused CIP Area
- Existing SWPS
- Near Term SWPS
- Alt 2 SWPS
- Alt 2 Injection Wells
- Existing Gravity Pipes
- Existing Forcemains
- Alt 2 Exfiltration Pipe
- Alt 2 Gravity Pipes
- Alt 2 Forcemains
- Alt 2 Detention Pond

10-Year ALT 2 Storm Flood

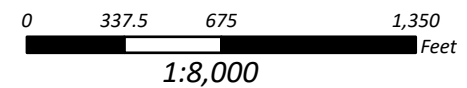
Feet

- <= 0 ft.
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.



Predicted Flooding Reduction and Proposed ALT 2 CIP for 10-year Design Storm in CIP Area Lawn Acres / Washington Park

City of Hollywood Stormwater Master Plan
HW-D6-4_ALT2-10
2/28/2023



			CONCEPTUAL CAPITAL COST ESTIMATE					D6_4 Washington Park		
									Alternative 1	
PUMP STATIONS WITH FORCE MAINS										
ITEM #	Master Sheet Index	DIAMETER (INCHES)	DESCRIPTION		TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL	
0001	13	24	FM- Force Main Collector		Circular	LF	\$ 167.00	0	\$	-
0002	14	36	FM- Force Main Collector		Circular	LF	\$ 242.00	0	\$	-
0003	15	42	FM- Force Main Collector		Circular	LF	\$ 336.00	0	\$	-
0004	16	48	FM- Force Main Collector		Circular	LF	\$ 612.00	0	\$	-
0005	17	54	FM- Force Main Collector		Circular	LF	\$ 982.00	0	\$	-
0006	18	60	FM- Force Main Collector		Circular	LF	\$ 1,149.00	0	\$	-
0007	19	66	FM- Force Main Collector		Circular	LF	\$ 1,329.00	0	\$	-
0008	20	72	FM- Force Main Collector		Circular	LF	\$ 1,473.00	0	\$	-
0009	225	24	FMO- Force Main Offline		Circular	LF	\$ 353.00	0	\$	-
0010	11		IWI-Injection Wells-Inline			EA	\$ 65,000.00	0	\$	-
0011	12		IWO-Injection Wells- Offline			EA	\$ 75,000.00	0	\$	-
0012	6	PS-Storm Drainage Pump Stations < 166 cfs			I	EA	\$ 2,400,000.00	0	\$	-
0013	7	PS-Storm Drainage Pump Stations < 166-246 cfs			II	EA	\$ 3,500,000.00	0	\$	-
0014	8	PS-Storm Drainage Pump Stations < 246-328 cfs			III	EA	\$ 4,900,000.00	0	\$	-
0015	9	PS-Storm Drainage Pump Stations< 328-410 cfs			IV	EA	\$ 6,750,000.00	0	\$	-
0016	54	PS-CS22 Storm Drainage Pump Stations 600CFS				EA	\$ 8,000,000.00	0	\$	-
NN SUBTOTAL										\$ -
EXFILTRATION WITH GRAVITY MAINS									D6_4 Washington Park	
ITEM #	Master Sheet Index	DIAMETER (INCHES)	WIDTH(INCHES)	DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL	
0020	21	15		GM-Gravity Main Collector	Circular	LF	\$ 40.00	0	\$	-
0021	22	18		GM-Gravity Main Collector	Circular	LF	\$ 45.00	0	\$	-
0023	23	24		GM-Gravity Main Collector	Circular	LF	\$ 48.00	0	\$	-
0024	24	30		GM-Gravity Main Collector	Circular	LF	\$ 52.00	0	\$	-
0026	25	36		GM-Gravity Main Collector	Circular	LF	\$ 80.00	0	\$	-
0028	26	42		GM-Gravity Main Collector	Circular	LF	\$ 115.00	0	\$	-
0029	27	48		GM-Gravity Main Collector	Circular	LF	\$ 125.00	0	\$	-
0030	28	54		GM-Gravity Main Collector	Circular	LF	\$ 150.00	0	\$	-
0031	29	60		GM-Gravity Main Collector	Circular	LF	\$ 220.00	0	\$	-
0032	30	66		GM-Gravity Main Collector	Circular	LF	\$ 428.00	0	\$	-
0033	31	72		GM-Gravity Main Collector	Circular	LF	\$ 485.00	0	\$	-
0035	32	29	45	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 205.00	0	\$	-
0036	33	32	49	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 215.00	0	\$	-
0037	34	34	53	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 225.00	0	\$	-
0038	35	38	60	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 235.00	0	\$	-
0039	36	43	68	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 370.00	0	\$	-
0040	37	48	76	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 400.00	0	\$	-
0041	38	53	83	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 432.00	0	\$	-
0042	39	58	91	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 320.00	0	\$	-
0043	40	63	98	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 410.00	0	\$	-
0044	41	68	106	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 460.00	0	\$	-
0045	42	72	113	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 570.00	0	\$	-
0046	43	82	128	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 650.00	0	\$	-
0048	44	72	120	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$	-
0072	45	72	72	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$	-
0049	46	84	120	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 750.00	0	\$	-
0050	47	96	96	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 850.00	0	\$	-
0051	48	GBP-Gravity Backflow Pipe <36"			Ea	\$ 35,000.00	0	\$	\$	-
0052	49	GBP-Gravity Backflow Pipe >36"			Ea	\$ 70,000.00	0	\$	\$	-
0053	5	GW-Gravity Wells			EA	\$ 105,000.00	0	\$	\$	-
0054	4	48	ET-Exfiltration Trench			LF	\$ 250.00	9,283	\$	2,320,750
0056	50	Weir Box CS			EA	\$ 7,500.00	0	\$	\$	-
0057	53	CS-22 Remod			EA	\$ 200,000.00	0	\$	\$	-
0058	55	SW-04 Remod			EA	\$ 150,000.00	0	\$	\$	-
0055		Gravity Structures-Inlets			EA	\$ 30,000.00	77	\$	\$	2,320,750
0059	56	Ditch Improvement			LF	\$ 50.00	0	\$	\$	-
0091	57	Swale/Ditch Headwall			Ea	\$ 10,000.00	0	\$	\$	-
0090	10	Exfil End Weir			Ea	\$ 5,000.00	0	\$	\$	-
0092	51	Ret/Det Pond			CUY	\$ 355.00	0	\$	\$	-
									#N/A	
									#N/A	
GRAVITY MAIN SUBTOTAL									#N/A	\$ 4,641,500
0060		Pavement Restoration including Pavement Marking (Full Road)				LF	\$ 270.00	9,283	\$	2,506,410
CONSTRUCTION COST SUBTOTAL										\$ 7,147,910
GENERAL CONDITIONS									D6_4 Washington Park	
0061		Mobilization				LS	4%	\$ 7,147,910	\$	285,916
0062		Insurance and General Conditions				LS	2%	\$ 7,147,910	\$	142,958
0063		Permits/Fees				LS	2%	\$ 7,147,910	\$	142,958
0064		Maintenance of Traffic				LS	3%	\$ 7,147,910	\$	214,437
0065		Engineering Design & CA Oversight Costs				LS	15%	\$ 7,147,910	\$	1,072,187
0066		Construction Engineering Inspection Costs				LS	4%	\$ 7,147,910	\$	285,916
0067		OCI Management Cost				LS	15%	\$ 7,147,910	\$	1,072,187
0068		Project Contingency Costs				LS	30%	\$ 7,147,910	\$	2,144,373
Land acquisition										
NS SUBTOTAL										\$ 5,360,933
TOTAL										\$ 12,508,843

		CONCEPTUAL CAPITAL COST ESTIMATE						D6_4 Washington Park	
								Alternative 2	
PUMP STATIONS WITH FORCE MAINS									
ITEM #	Master Sheet Index	DIAMETER (INCHES)		DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0001	13	24		FM- Force Main Collector	Circular	LF	\$ 167.00	0	\$ -
0002	14	36		FM- Force Main Collector	Circular	LF	\$ 242.00	0	\$ -
0003	15	42		FM- Force Main Collector	Circular	LF	\$ 336.00	0	\$ -
0004	16	48		FM- Force Main Collector	Circular	LF	\$ 612.00	0	\$ -
0005	17	54		FM- Force Main Collector	Circular	LF	\$ 982.00	0	\$ -
0006	18	60		FM- Force Main Collector	Circular	LF	\$ 1,149.00	0	\$ -
0007	19	66		FM- Force Main Collector	Circular	LF	\$ 1,329.00	0	\$ -
0008	20	72		FM- Force Main Collector	Circular	LF	\$ 1,473.00	0	\$ -
0009	225	24		FMO- Force Main Offline	Circular	LF	\$ 353.00	0	\$ -
0010	11			IWI-Injection Wells-Inline		EA	\$ 65,000.00	0	\$ -
0011	12			IWO-Injection Wells -Offline		EA	\$ 75,000.00	0	\$ -
0012	6	PS-Storm Drainage Pump Stations < 166 cfs			I	EA	\$ 2,400,000.00	0	\$ -
0013	7	PS-Storm Drainage Pump Stations < 166-246 cfs			II	EA	\$ 3,500,000.00	0	\$ -
0014	8	PS-Storm Drainage Pump Stations < 246-328 cfs			III	EA	\$ 4,900,000.00	0	\$ -
0015	9	PS-Storm Drainage Pump Stations< 328-410 cfs			IV	EA	\$ 6,750,000.00	0	\$ -
0016	54	PS-CS22 Storm Drainage Pump Stations 600CFS				EA	\$ 8,000,000.00	0	\$ -
IN SUBTOTAL									\$ -
EXFILTRATION WITH GRAVITY MAINS								D6_4 Washington Park	
ITEM #	Master Sheet Index	DIAMETER (INCHES)	Width(INCHES)	DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0022	22	21		GM-Gravity Main Collector	Circular	LF	\$ 45.00	0	\$ -
0021	21	18		GM-Gravity Main Collector	Circular	LF	\$ 45.00	0	\$ -
0023	23	24		GM-Gravity Main Collector	Circular	LF	\$ 48.00	0	\$ -
0024	24	30		GM-Gravity Main Collector	Circular	LF	\$ 52.00	0	\$ -
0026	25	36		GM-Gravity Main Collector	Circular	LF	\$ 80.00	0	\$ -
0028	26	42		GM-Gravity Main Collector	Circular	LF	\$ 115.00	0	\$ -
0029	27	48		GM-Gravity Main Collector	Circular	LF	\$ 125.00	0	\$ -
0030	28	54		GM-Gravity Main Collector	Circular	LF	\$ 150.00	0	\$ -
0031	29	60		GM-Gravity Main Collector	Circular	LF	\$ 220.00	0	\$ -
0032	30	66		GM-Gravity Main Collector	Circular	LF	\$ 428.00	0	\$ -
0033	31	72		GM-Gravity Main Collector	Circular	LF	\$ 485.00	0	\$ -
0035	32	29	45	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 205.00	0	\$ -
0036	33	32	49	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 215.00	0	\$ -
0037	34	34	53	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 225.00	0	\$ -
0038	35	38	60	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 235.00	0	\$ -
0039	36	43	68	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 370.00	0	\$ -
0040	37	48	76	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 400.00	0	\$ -
0041	38	53	83	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 432.00	0	\$ -
0042	39	58	91	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 320.00	0	\$ -
0043	40	63	98	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 410.00	0	\$ -
0044	41	68	106	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 460.00	0	\$ -
0045	42	72	113	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 570.00	0	\$ -
0046	43	82	128	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 650.00	0	\$ -
0048	44	72	120	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0072	45	72	72	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$ -
0049	46	72	96	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 750.00	0	\$ -
0050	47	96	96	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 850.00	0	\$ -
0051	48	GBP-Gravity Backflow Pipe <36"				Ea	\$ 35,000.00	0	\$ -
0052	49	GBP-Gravity Backflow Pipe >36"				Ea	\$ 70,000.00	0	\$ -
0053	5	GW-Gravity Wells				EA	\$ 105,000.00	0	\$ -
0054	4	48		ET-Exfiltration Trench		LF	\$ 250.00	5,614	\$ 1,403,500
0055	50	Weir Box CS				EA	\$ 30,000.00	0	\$ -
0057	53	CS-22 Remod				EA	\$ 525,000.00	0	\$ -
0058	55	SW-04 Remod				EA	\$ 150,000.00	0	\$ -
0056		Gravity Structures-Inlets				EA	\$ 7,500.00	47	\$ 350,875
0059	56	Ditch Improvement				LF	\$ 50.00	0	\$ -
0091	57	Swale/Ditch Headwall				Ea	\$ 10,000.00	0	\$ -
0090	10	Exfil End Weir				Ea	\$ 5,000.00	0	\$ -
0092	51	Ret/Det Pond				CUY	\$ 355.00	0	\$ -
							#N/A	#VALUE!	#VALUE!
							#N/A	#VALUE!	#VALUE!
							#N/A	#VALUE!	#VALUE!
GRAVITY MAIN SUBTOTAL									\$ 1,754,375
0060		Pavement Restoration including Pavement Marking (Full Road)				LF	\$ 270.00	5,614	\$ 1,515,780
CONSTRUCTION COST SUBTOTAL									\$ 3,270,155
GENERAL CONDITIONS								D6_4 Washington Park	
0061		Mobilization				LS	4%	\$ 3,270,155	\$ 130,806
0062		Insurance and General Conditions				LS	2%	\$ 3,270,155	\$ 65,403
0063		Permits/Fees				LS	2%	\$ 3,270,155	\$ 65,403
0064		Maintenance of Traffic				LS	3%	\$ 3,270,155	\$ 98,105
0065		Engineering Design & CA Oversight Costs				LS	15%	\$ 3,270,155	\$ 490,523
0066		Construction Engineering Inspection Costs				LS	4%	\$ 3,270,155	\$ 130,806
0067		OCI Management Cost				LS	15%	\$ 3,270,155	\$ 490,523
0068		Project Contingency Costs				LS	30%	\$ 3,270,155	\$ 981,047
NS SUBTOTAL									\$ 2,452,616
TOTAL									\$ 5,722,771

3.2.2.8 CIP Area HW-D4-8 (441 Corridor Central / Hollywood Gardens West)

Root Causes of Flooding

This CIP area is characterized by mostly built-out, high impervious, residential land use. The FDOT systems are performing well. The central and south part of the sub basin is the highest point and flooding collects in the NW corner low spot.

Alternative 1

Proposed CIP:

- New gravity collection systems and inlets in CIP neighborhoods.
- New 29,980 l.f. of exfiltration systems in neighborhoods.

Summary of Locations Not Meeting ALT 1 LOS:

1. Structures Flooded pre-21, post-3.

Summary of Offsite Issues Affecting CIP Area:

1. None.

Alternative 2

Proposed CIP:

- New SWPS WilliamsPk Type I at 25 cfs total pumping northeast into Oak Lake via 5,700 l.f. of 36-inch FM, located in an easement within the SW corner of John Williams Park pumping out of the improved natural detention area in the park (see Section 3.2.2.2 CIP Area HW-D5-2 Driftwood).
- New 2 acre detention area in the John Williams Park existing depressional storage area with a bottom EL of 1 NAVD from approximate existing average EL 2 NAVD land surface.
- New gravity collection systems and inlets in the CIP area neighborhoods.
- One new 24-inch connection to the Turnpike ditch north of Sheridan Street.
- New 16,445 l.f. of exfiltration systems in neighborhoods.

Summary of Locations Not Meeting ALT 2 LOS:

1. Structures Flooded pre-21, post-12.

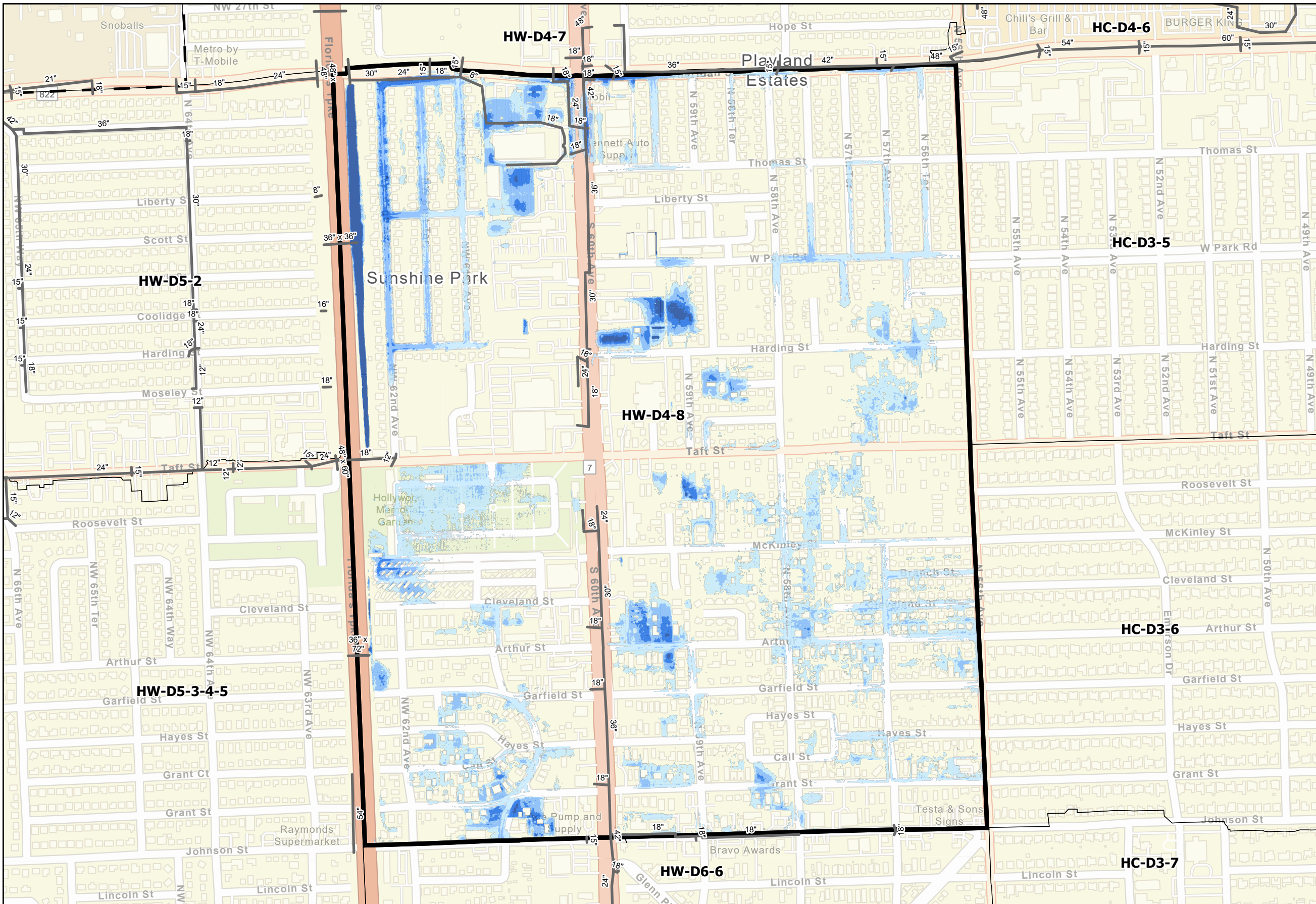
Summary of Offsite Issues Affecting CIP Area:

1. None.

HW-D4-8 Pre-Post CIP Flood Inundation Maps

The following figures provide the predicted existing conditions flooding for the 5- and 10-year storm in the CIP Area and the predicted flood reduction for these storms under the Alternatives 1 and 2 CIP:

- **Figure HW-D4-8-EC_5 - Current Conditions Flooding in CIP Area 5-year Design Storm**

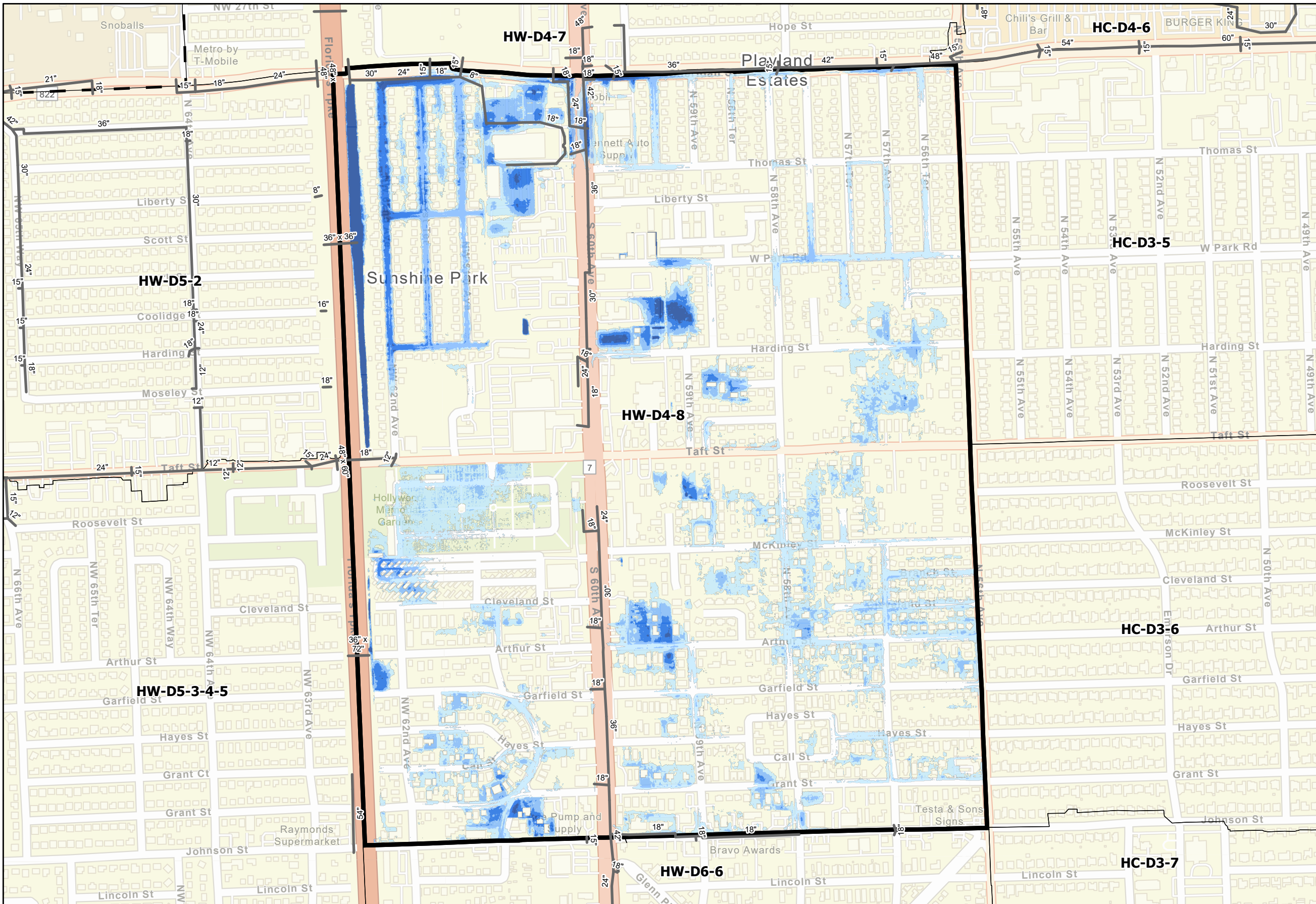


Legend

- Hollywood City Limits
- Focused CIP Area
- Existing SWPS
- Near Term SWPS
- Existing Gravity Pipes
- Existing Forcemains

5-Year 24-Hour Storm Flood Feet

- <= 0 ft.
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.



Legend

- Hollywood City Limits
- Focused CIP Area
- Existing SWPS
- Near Term SWPS
- Existing Gravity Pipes
- Existing Forcemains

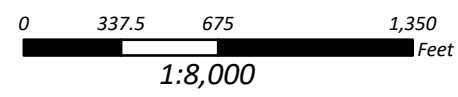
10-Year 72-Hour Storm Flood Feet

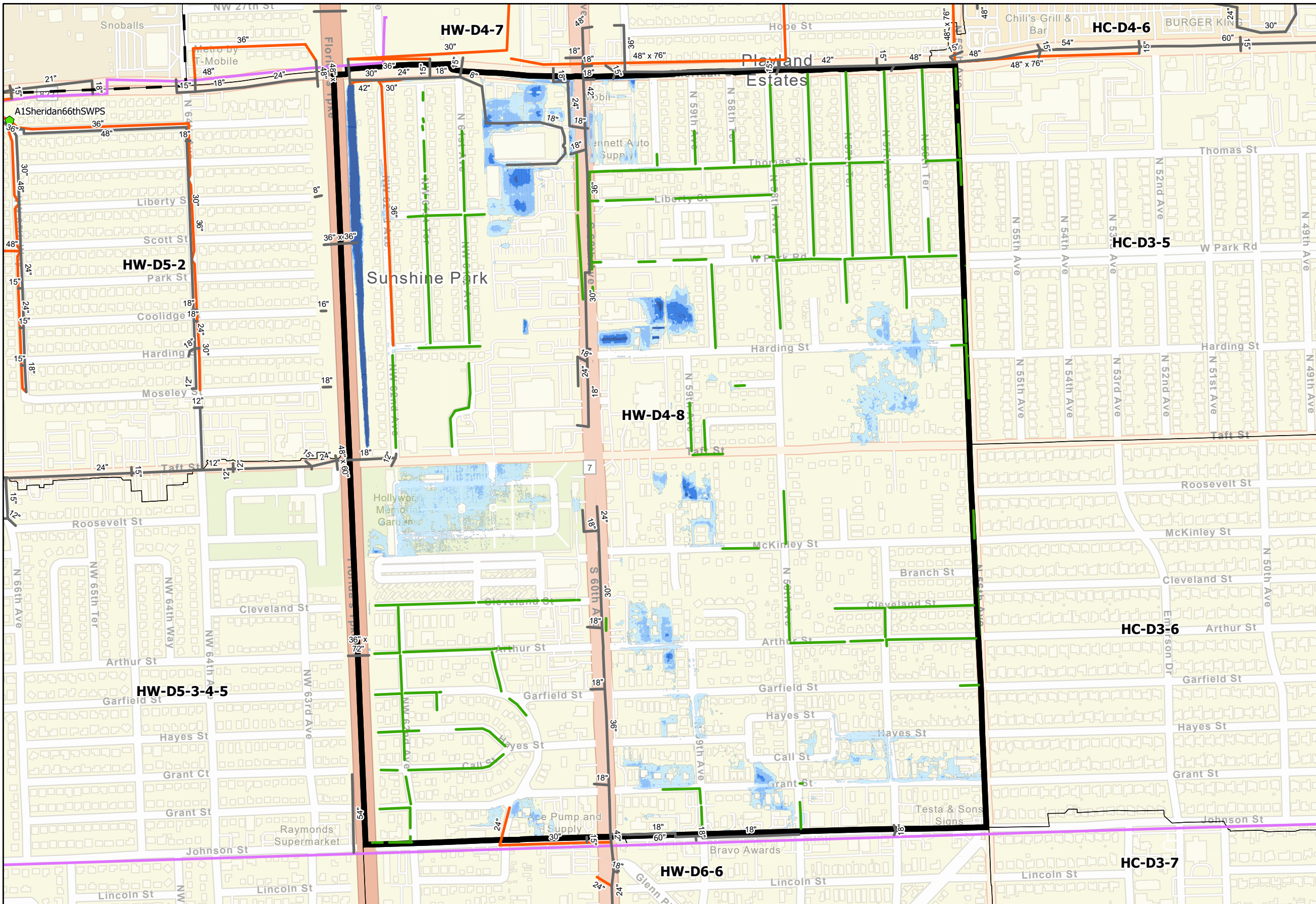
- <= 0 ft.
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.



Current Conditions Flooding in CIP Area
 441 Cooridor Central / Hollywood Gardens West
 10-year Design Storm

City of Hollywood Stormwater Master Plan
 HW-D4-8_EC-10
 2/28/2023

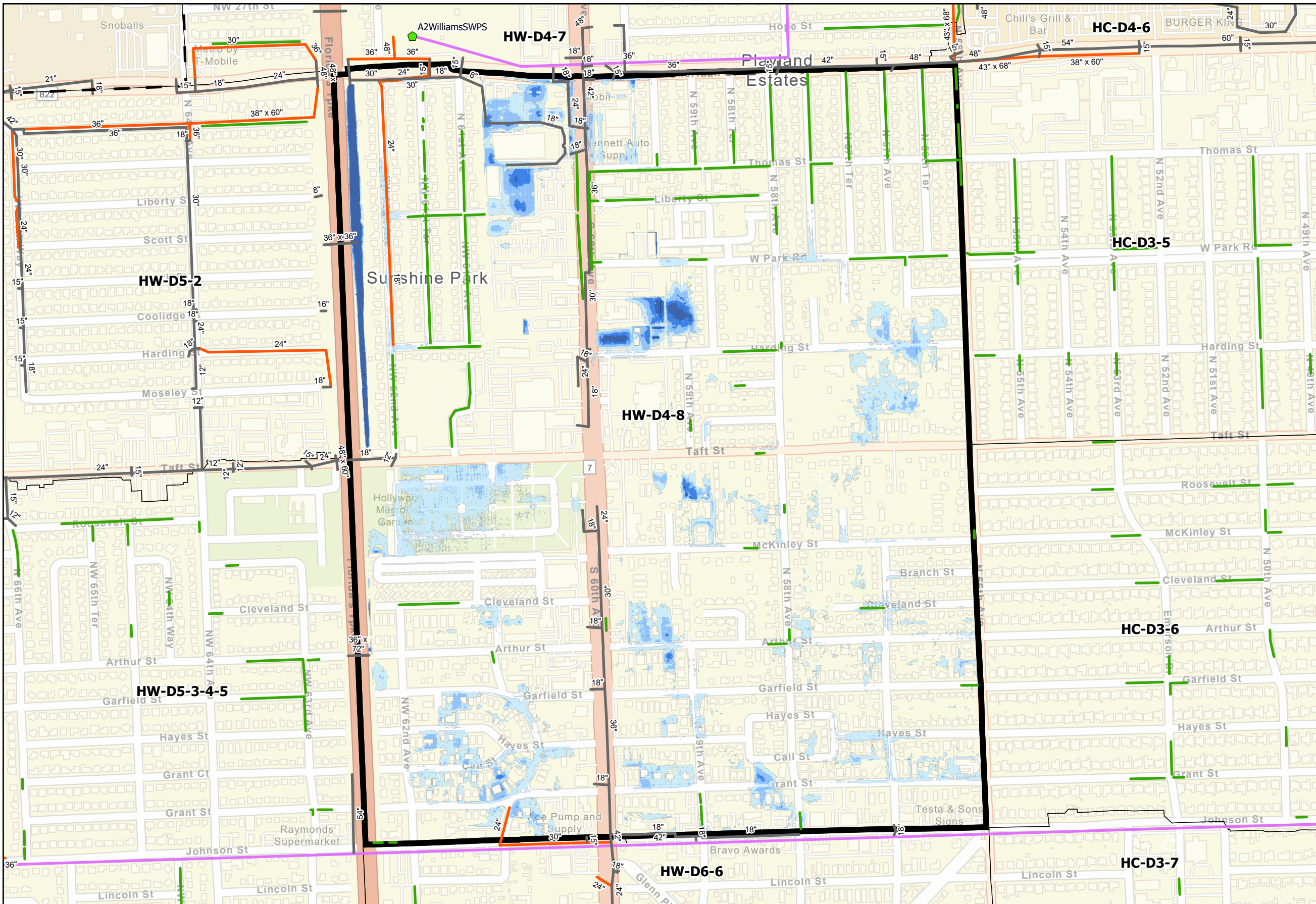




- Legend**
- Hollywood City Limits
 - Focused CIP Area
 - Existing SWPS
 - Near Term SWPS
 - Alt 1 SWPS
 - Alt 1 Injection Wells
 - Existing Gravity Pipes
 - Existing Forcemains
 - Alt 1 Exfiltration Pipes
 - Alt 1 Gravity Pipes
 - Alt 1 Forcemains
 - Alt 1 Detention Pond

5-Year ALT 1 Storm Flood

- Feet**
- <= 0 ft.
 - 0 - 0.5
 - 0.5 - 1
 - 1 - 1.5
 - > 1.5 ft.

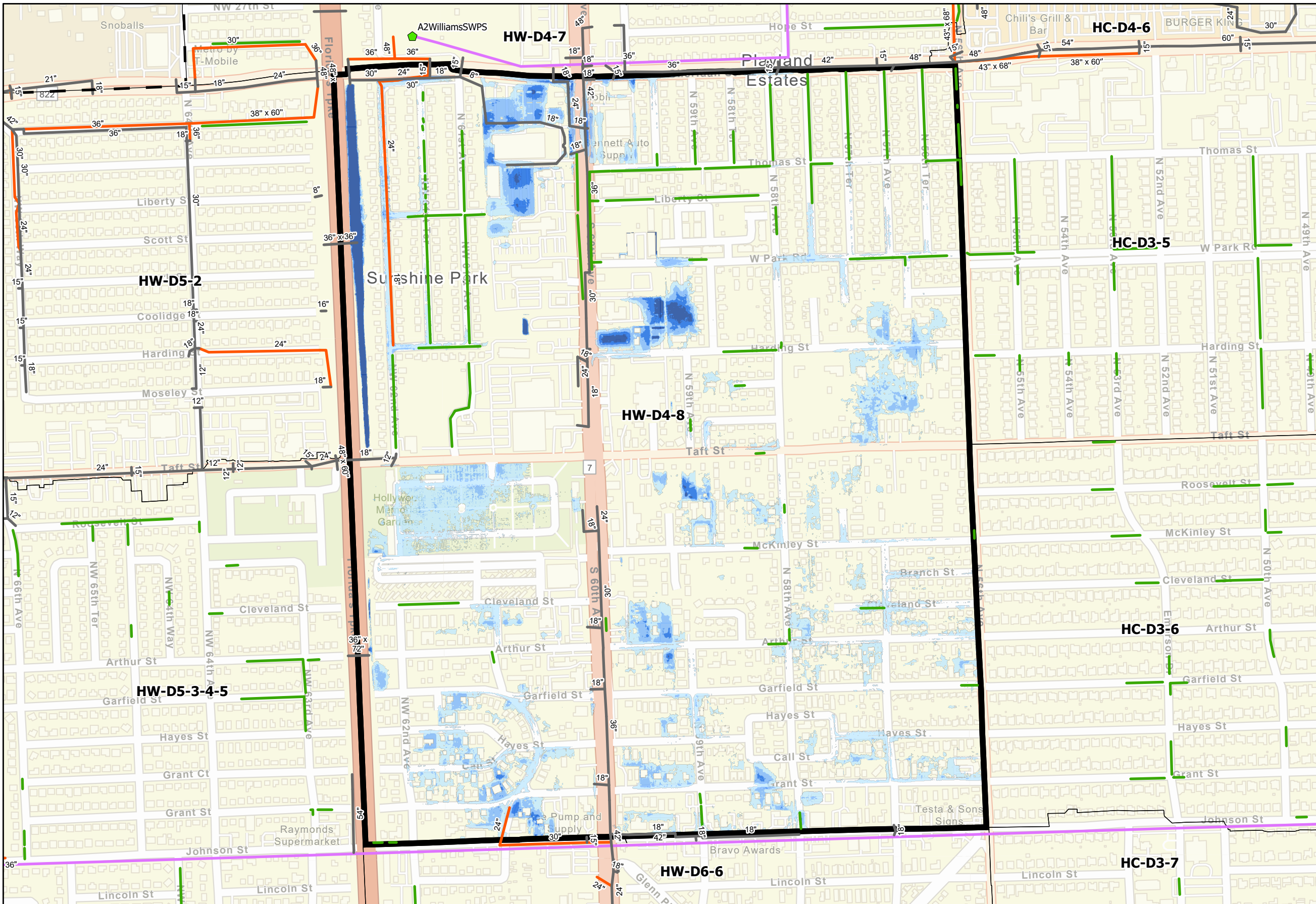


Legend

- Hollywood City Limits
- Focused CIP Area
- Existing SWPS
- Near Term SWPS
- Alt 2 SWPS
- Alt 2 Injection Wells
- Existing Gravity Pipes
- Existing Forcemains
- Alt 2 Exfiltration Pipe
- Alt 2 Gravity Pipes
- Alt 2 Forcemains
- Alt 2 Detention Pond

5-Year ALT 2 Storm Flood Feet

- <= 0 ft.
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.



Legend

- Hollywood City Limits
- Focused CIP Area
- Existing SWPS
- Near Term SWPS
- Alt 2 SWPS
- Alt 2 Injection Wells
- Existing Gravity Pipes
- Existing Forcemains
- Alt 2 Exfiltration Pipe
- Alt 2 Gravity Pipes
- Alt 2 Forcemains
- Alt 2 Detention Pond

10-Year ALT 2 Storm Flood Feet

- <= 0 ft.
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.

			CONCEPTUAL CAPITAL COST ESTIMATE						D4_8 441 Corridor Central and Hollywood Gardens West	
									Alternative 1	
PUMP STATIONS WITH FORCE MAINS										
ITEM #	Master Sheet Index	DIAMETER (INCHES)	DESCRIPTION		TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL	
0001	13	24	FM- Force Main Collector		Circular	LF	\$ 167.00	0	\$	-
0002	14	36	FM- Force Main Collector		Circular	LF	\$ 242.00	0	\$	-
0003	15	42	FM- Force Main Collector		Circular	LF	\$ 336.00	0	\$	-
0004	16	48	FM- Force Main Collector		Circular	LF	\$ 612.00	0	\$	-
0005	17	54	FM- Force Main Collector		Circular	LF	\$ 982.00	0	\$	-
0006	18	60	FM- Force Main Collector		Circular	LF	\$ 1,149.00	0	\$	-
0007	19	66	FM- Force Main Collector		Circular	LF	\$ 1,329.00	0	\$	-
0008	20	72	FM- Force Main Collector		Circular	LF	\$ 1,473.00	0	\$	-
0009	225	24	FMO- Force Main Offline		Circular	LF	\$ 353.00	0	\$	-
0010	11		IWI-Injection Wells-Inline			EA	\$ 65,000.00	0	\$	-
0011	12		IWO-Injection Wells- Offline			EA	\$ 75,000.00	0	\$	-
0012	6	PS-Storm Drainage Pump Stations < 166 cfs			I	EA	\$ 2,400,000.00	0	\$	-
0013	7	PS-Storm Drainage Pump Stations < 166-246 cfs			II	EA	\$ 3,500,000.00	0	\$	-
0014	8	PS-Storm Drainage Pump Stations < 246-328 cfs			III	EA	\$ 4,900,000.00	0	\$	-
0015	9	PS-Storm Drainage Pump Stations< 328-410 cfs			IV	EA	\$ 6,750,000.00	0	\$	-
0016	54	PS-CS22 Storm Drainage Pump Stations 600CFS				EA	\$ 8,000,000.00	0	\$	-
NN SUBTOTAL										\$ -
EXFILTRATION WITH GRAVITY MAINS									Corridor Central and Hollywood Gardens West	
ITEM #	Master Sheet Index	DIAMETER (INCHES)	WIDTH(INCHES)	DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL	
0020	21	15		GM-Gravity Main Collector	Circular	LF	\$ 40.00	0	\$	-
0021	22	18		GM-Gravity Main Collector	Circular	LF	\$ 45.00	0	\$	-
0023	23	24		GM-Gravity Main Collector	Circular	LF	\$ 48.00	270	\$	12,960
0024	24	30		GM-Gravity Main Collector	Circular	LF	\$ 52.00	945	\$	49,140
0026	25	36		GM-Gravity Main Collector	Circular	LF	\$ 80.00	1,960	\$	156,800
0028	26	42		GM-Gravity Main Collector	Circular	LF	\$ 115.00	200	\$	23,000
0029	27	48		GM-Gravity Main Collector	Circular	LF	\$ 125.00	0	\$	-
0030	28	54		GM-Gravity Main Collector	Circular	LF	\$ 150.00	0	\$	-
0031	29	60		GM-Gravity Main Collector	Circular	LF	\$ 220.00	0	\$	-
0032	30	66		GM-Gravity Main Collector	Circular	LF	\$ 428.00	0	\$	-
0033	31	72		GM-Gravity Main Collector	Circular	LF	\$ 485.00	0	\$	-
0035	32	29	45	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 205.00	0	\$	-
0036	33	32	49	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 215.00	0	\$	-
0037	34	34	53	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 225.00	0	\$	-
0038	35	38	60	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 235.00	0	\$	-
0039	36	43	68	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 370.00	0	\$	-
0040	37	48	76	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 400.00	0	\$	-
0041	38	53	83	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 432.00	0	\$	-
0042	39	58	91	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 320.00	0	\$	-
0043	40	63	98	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 410.00	0	\$	-
0044	41	68	106	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 460.00	0	\$	-
0045	42	72	113	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 570.00	0	\$	-
0046	43	82	128	GM-Gravity Main Collector	Horizontal Ellipse	LF	\$ 650.00	0	\$	-
0048	44	72	120	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$	-
0072	45	72	72	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 570.00	0	\$	-
0049	46	84	120	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 750.00	0	\$	-
0050	47	96	96	GM-Gravity Main Collector	Rectangle Closed	LF	\$ 850.00	0	\$	-
0051	48	GBP-Gravity Backflow Pipe <36"				Ea	\$ 35,000.00	0	\$	-
0052	49	GBP-Gravity Backflow Pipe >36"				Ea	\$ 70,000.00	0	\$	-
0053	5	GW-Gravity Wells				EA	\$ 105,000.00	0	\$	-
0054	4	48	ET-Exfiltration Trench			LF	\$ 250.00	29,979	\$	7,494,750
0056	50	Weir Box CS				EA	\$ 7,500.00	0	\$	-
0057	53	CS-22 Remod				EA	\$ 200,000.00	0	\$	-
0058	55	SW-04 Remod				EA	\$ 150,000.00	0	\$	-
0055		Gravity Structures-Inlets				EA	\$ 30,000.00	278	\$	8,338,500
0059	56	Ditch Improvement				LF	\$ 50.00	0	\$	-
0091	57	Swale/Ditch Headwall				Ea	\$ 10,000.00	0	\$	-
0090	10	Exfil End Weir				Ea	\$ 5,000.00	0	\$	-
0092	51	Ret/Det Pond				CUY	\$ 355.00	0	\$	-
									#N/A	
									#N/A	
GRAVITY MAIN SUBTOTAL									#N/A	\$ 16,075,150
0060		Pavement Restoration including Pavement Marking (Full Road)				LF	\$ 270.00	33,354	\$	9,005,580
CONSTRUCTION COST SUBTOTAL										\$ 25,080,730
GENERAL CONDITIONS									Corridor Central and Hollywood Gardens West	
0061		Mobilization				LS	4%	\$ 25,080,730	\$	1,003,229
0062		Insurance and General Conditions				LS	2%	\$ 25,080,730	\$	501,615
0063		Permits/Fees				LS	2%	\$ 25,080,730	\$	501,615
0064		Maintenance of Traffic				LS	3%	\$ 25,080,730	\$	752,422
0065		Engineering Design & CA Oversight Costs				LS	15%	\$ 25,080,730	\$	3,762,110
0066		Construction Engineering Inspection Costs				LS	4%	\$ 25,080,730	\$	1,003,229
0067		OCI Management Cost				LS	15%	\$ 25,080,730	\$	3,762,110
0068		Project Contingency Costs				LS	30%	\$ 25,080,730	\$	7,524,219
Land acquisition										
NS SUBTOTAL										\$ 18,810,548
TOTAL										\$ 43,891,278

		CONCEPTUAL CAPITAL COST ESTIMATE							D4_8 441 Corridor Central and Hollywood Gardens West	
Alternative 2										
PUMP STATIONS WITH FORCE MAINS										
ITEM #	Master Sheet Index	DIAMETER (INCHES)			DESCRIPTION	TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0001	13	24			FM- Force Main Collector	Circular	LF	\$ 167.00	0	\$ -
0002	14	36			FM- Force Main Collector	Circular	LF	\$ 242.00	5,700	\$ 1,379,400
0003	15	42			FM- Force Main Collector	Circular	LF	\$ 336.00	0	\$ -
0004	16	48			FM- Force Main Collector	Circular	LF	\$ 612.00	0	\$ -
0005	17	54			FM- Force Main Collector	Circular	LF	\$ 982.00	0	\$ -
0006	18	60			FM- Force Main Collector	Circular	LF	\$ 1,149.00	0	\$ -
0007	19	66			FM- Force Main Collector	Circular	LF	\$ 1,329.00	0	\$ -
0008	20	72			FM- Force Main Collector	Circular	LF	\$ 1,473.00	0	\$ -
0009	225	24			FMO- Force Main Offline	Circular	LF	\$ 353.00	0	\$ -
0010	11				IWI-Injection Wells-Inline		EA	\$ 65,000.00	0	\$ -
0011	12				IWO-Injection Wells -Offline		EA	\$ 75,000.00	0	\$ -
0012	6	PS-Storm Drainage Pump Stations < 166 cfs			I	EA	\$ 2,400,000.00	1	\$ 2,400,000	
0013	7	PS-Storm Drainage Pump Stations < 166-246 cfs			II	EA	\$ 3,500,000.00	0	\$ -	
0014	8	PS-Storm Drainage Pump Stations < 246-328 cfs			III	EA	\$ 4,900,000.00	0	\$ -	
0015	9	PS-Storm Drainage Pump Stations< 328-410 cfs			IV	EA	\$ 6,750,000.00	0	\$ -	
0016	54	PS-CS22 Storm Drainage Pump Stations 600CFS				EA	\$ 8,000,000.00	0	\$ -	
IN SUBTOTAL										\$ 3,779,400
EXFILTRATION WITH GRAVITY MAINS										Corridor Central and Hollywood Gardens West
ITEM #	Master Sheet Index	DIAMETER (INCHES)	Width(INCHES)	DESCRIPTION		TYPE	UNIT	UNIT COST	QUANTITIES	SUBTOTAL
0022	22	21		GM-Gravity Main Collector		Circular	LF	\$ 45.00	0	\$ -
0021	21	18		GM-Gravity Main Collector		Circular	LF	\$ 45.00	910	\$ 40,950
0023	23	24		GM-Gravity Main Collector		Circular	LF	\$ 48.00	1,320	\$ 63,360
0024	24	30		GM-Gravity Main Collector		Circular	LF	\$ 52.00	1,245	\$ 64,740
0026	25	36		GM-Gravity Main Collector		Circular	LF	\$ 80.00	0	\$ -
0028	26	42		GM-Gravity Main Collector		Circular	LF	\$ 115.00	0	\$ -
0029	27	48		GM-Gravity Main Collector		Circular	LF	\$ 125.00	0	\$ -
0030	28	54		GM-Gravity Main Collector		Circular	LF	\$ 150.00	0	\$ -
0031	29	60		GM-Gravity Main Collector		Circular	LF	\$ 220.00	0	\$ -
0032	30	66		GM-Gravity Main Collector		Circular	LF	\$ 428.00	0	\$ -
0033	31	72		GM-Gravity Main Collector		Circular	LF	\$ 485.00	0	\$ -
0035	32	29	45	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 205.00	0	\$ -
0036	33	32	49	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 215.00	0	\$ -
0037	34	34	53	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 225.00	0	\$ -
0038	35	38	60	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 235.00	0	\$ -
0039	36	43	68	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 370.00	0	\$ -
0040	37	48	76	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 400.00	0	\$ -
0041	38	53	83	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 432.00	0	\$ -
0042	39	58	91	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 320.00	0	\$ -
0043	40	63	98	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 410.00	0	\$ -
0044	41	68	106	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 460.00	0	\$ -
0045	42	72	113	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 570.00	0	\$ -
0046	43	82	128	GM-Gravity Main Collector		Horizontal Ellipse	LF	\$ 650.00	0	\$ -
0048	44	72	120	GM-Gravity Main Collector		Rectangle Closed	LF	\$ 570.00	0	\$ -
0072	45	72	72	GM-Gravity Main Collector		Rectangle Closed	LF	\$ 570.00	0	\$ -
0049	46	72	96	GM-Gravity Main Collector		Rectangle Closed	LF	\$ 750.00	0	\$ -
0050	47	96	96	GM-Gravity Main Collector		Rectangle Closed	LF	\$ 850.00	0	\$ -
0051	48			GBP-Gravity Backflow Pipe <36"		Ea	\$ 35,000.00	0	\$ -	
0052	49			GBP-Gravity Backflow Pipe >36"		Ea	\$ 70,000.00	0	\$ -	
0053	5			GW-Gravity Wells		EA	\$ 105,000.00	0	\$ -	
0054	4	48		ET-Exfiltration Trench		LF	\$ 250.00	16,445	\$ 4,111,250	
0055	50			Weir Box CS		EA	\$ 30,000.00	0	\$ -	
0057	53			CS-22 Remod		EA	\$ 525,000.00	0	\$ -	
0058	55			SW-04 Remod		EA	\$ 150,000.00	0	\$ -	
0056				Gravity Structures-Inlets		EA	\$ 7,500.00	177	\$ 1,330,500	
0059	56			Ditch Improvement		LF	\$ 50.00	0	\$ -	
0091	57			Swale/Ditch Headwall		Ea	\$ 10,000.00	0	\$ -	
0090	10			Exfil End Weir		Ea	\$ 5,000.00	0	\$ -	
0092	51			Ret/Det Pond		CUY	\$ 355.00	0	\$ -	
							#N/A	#VALUE!	#VALUE!	
							#N/A	#VALUE!	#VALUE!	
							#N/A	#VALUE!	#VALUE!	
GRAVITY MAIN SUBTOTAL									\$ 5,610,800	
0060		Pavement Restoration including Pavement Marking (Full Road)					LF	\$ 270.00	25,620	\$ 6,917,400
CONSTRUCTION COST SUBTOTAL										\$ 16,307,600
GENERAL CONDITIONS										Corridor Central and Hollywood Gardens West
0061		Mobilization					LS	4%	\$ 16,307,600	\$ 652,304
0062		Insurance and General Conditions					LS	2%	\$ 16,307,600	\$ 326,152
0063		Permits/Fees					LS	2%	\$ 16,307,600	\$ 326,152
0064		Maintenance of Traffic					LS	3%	\$ 16,307,600	\$ 489,228
0065		Engineering Design & CA Oversight Costs					LS	15%	\$ 16,307,600	\$ 2,446,140
0066		Construction Engineering Inspection Costs					LS	4%	\$ 16,307,600	\$ 652,304
0067		OCI Management Cost					LS	15%	\$ 16,307,600	\$ 2,446,140
0068		Project Contingency Costs					LS	30%	\$ 16,307,600	\$ 4,892,280
NS SUBTOTAL										\$ 12,230,700
TOTAL										\$ 28,538,300

- **Figure HW-D4-8-EC_10 - Current Conditions Flooding in CIP Area 10-year Design Storm**
- **Figure HW-D4-8-CIP_ALT1_5 - Predicted Flooding Reduction and Proposed ALT1 CIP for 5-year Design Storm**
- **Figure HW-D4-8-CIP_ALT1_10 - Predicted Flooding Reduction and Proposed ALT1 CIP for 10-year Design Storm**
- **Figure HW-D4-8-CIP_ALT2_5 - Predicted Flooding Reduction and Proposed ALT2 CIP for 5-year Design Storm**
- **Figure HW-D4-8-CIP_ALT2_10 - Predicted Flooding Reduction and Proposed ALT2 CIP for 10-year Design Storm**
- **Table HW-D4-8_ALT1 – Planning Budget for Alternative 1 Proposed CIP**
- **Table HW-D4-8_ALT2 – Planning Budget for Alternative 2 Proposed CIP**

3.2.2.9 CIP Area HW-D4-7 (Playland / 441 Corridor North)

Root Causes of Flooding

This CIP area is characterized by mostly residential land use and has a series of ponds with no positive outfalls that fill quickly during storms. The area topography is low and once the ponds fill, the movement of water equalizes and flooding occurs.

Alternative 1

Proposed CIP:

- New gravity collection systems and inlets in CIP neighborhoods connecting to Playland Estates Lake.
- New weir box structure top of grate at EL 4 NAVD out of Playland Estates Lake into Emerald Hill Country Club Pond (west end of C-10 stub).
- New twin 48-inch culverts under W 56th Ave. connecting Oak Lake to Emerald Hills Country Club Pond (west end of C-10 stub).
- Three new 24-inch gravity connections to the Turnpike ditches to the west from the neighborhood.
- New 7,100 l.f. of exfiltration systems in neighborhoods.
- Note: this LOS relies on the CS-22 structure pre-storm pumping concept (See section 3.2.3.3 CIP Area HC-D4-6 Emerald Hills).

Summary of Locations Not Meeting ALT 1 LOS:

1. Structures Flooded pre-45, post-17.

Summary of Offsite Issues Affecting CIP Area:

1. Historic flows into the City from the northern boundaries with Seminole Reservation near Griffin Road.
2. Playland from the north from Seminole reservation estimated 52 cfs in a 5 yr storm.

Alternative 2

Proposed CIP:

- New gravity collection systems and inlets in CIP area neighborhoods connecting to Playland Estates Lake.
- New weir box structure top of grate at EL 4 NAVD out of Playland Estates Lake into Emerald Hill Country Club Pond (at west end of C-10 spur).
- New twin 48-inch culverts under W 56th Ave. connecting Oak Lake to Emerald Hills Country Club Pond (west end of C-10 spur).
- One new 24-inch gravity connections to Turnpike ditch to the west from neighborhood.
- New 7,100 l.f. of exfiltration systems in neighborhoods.

Summary of Locations Not Meeting ALT 2 LOS:

1. Structures Flooded pre-45, post-31.

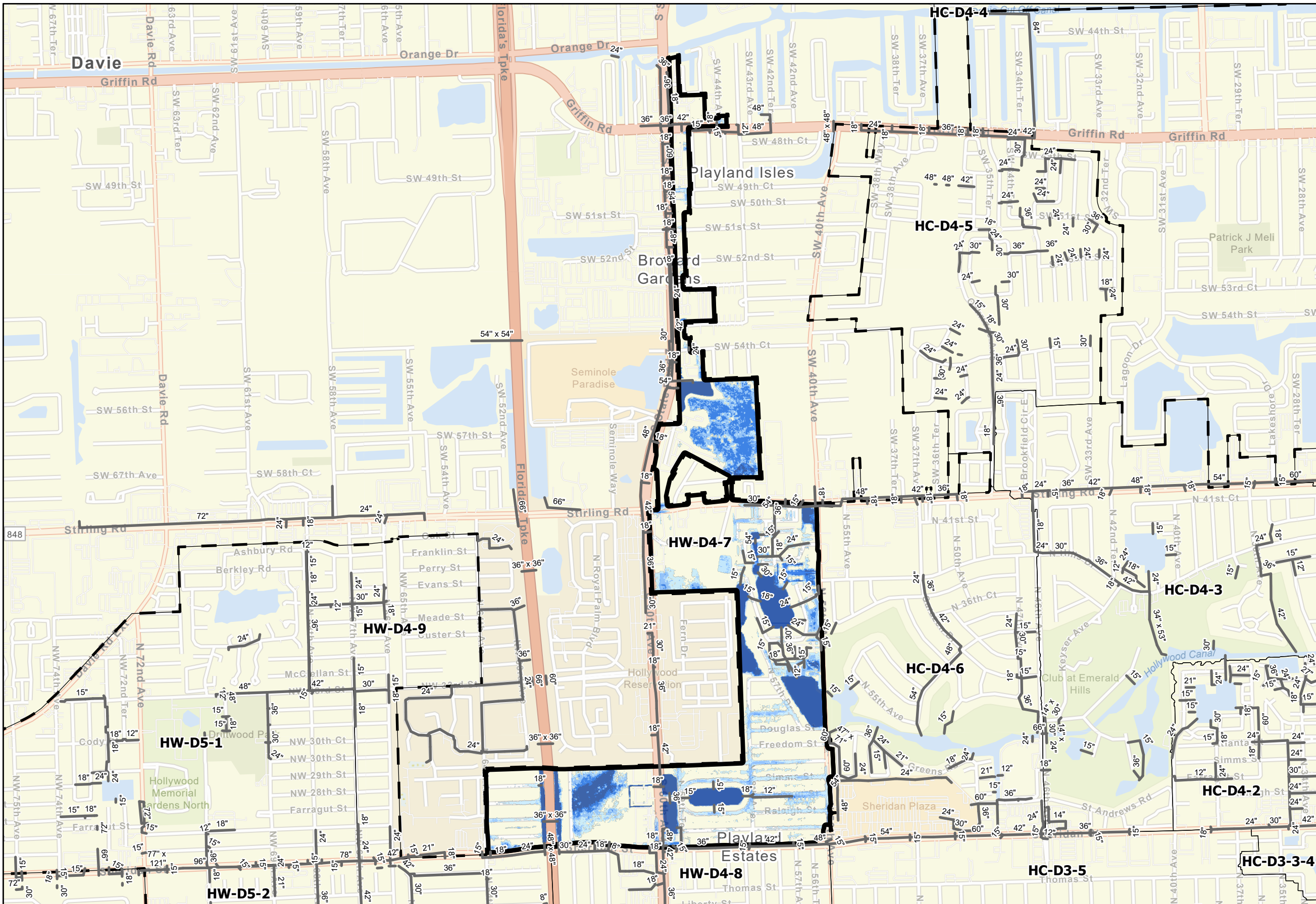
Summary of Offsite Issues Affecting CIP Area:

1. Historic flows into the City in the northern boundaries with Seminole Reservation near Griffin Road.
2. Into Playland from the north from Seminole reservation estimated 52 cfs in a 5 yr storm.

HW-D4-7 Pre-Post CIP Flood Inundation Maps

The following figures provide the predicted existing conditions flooding for the 5- and 10-year storm in the CIP Area and the predicted flood reduction for these storms under the Alternatives 1 and 2 CIP:

- **Figure HW-D4-7-EC_5 - Current Conditions Flooding in CIP Area 5-year Design Storm**
- **Figure HW-D4-7-EC_10 - Current Conditions Flooding in CIP Area 10-year Design Storm**
- **Figure HW-D4-7-CIP_ALT1_5 - Predicted Flooding Reduction and Proposed ALT1 CIP for 5-year Design Storm**
- **Figure HW-D4-7-CIP_ALT1_10 - Predicted Flooding Reduction and Proposed ALT1 CIP for 10-year Design Storm**



Legend

- Hollywood City Limits
- Focused CIP Area
- Existing SWPS
- Near Term SWPS
- Existing Gravity Pipes
- Existing Forcemains

5-Year 24-Hour Storm Flood Feet

- <= 0 ft.
- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- > 1.5 ft.