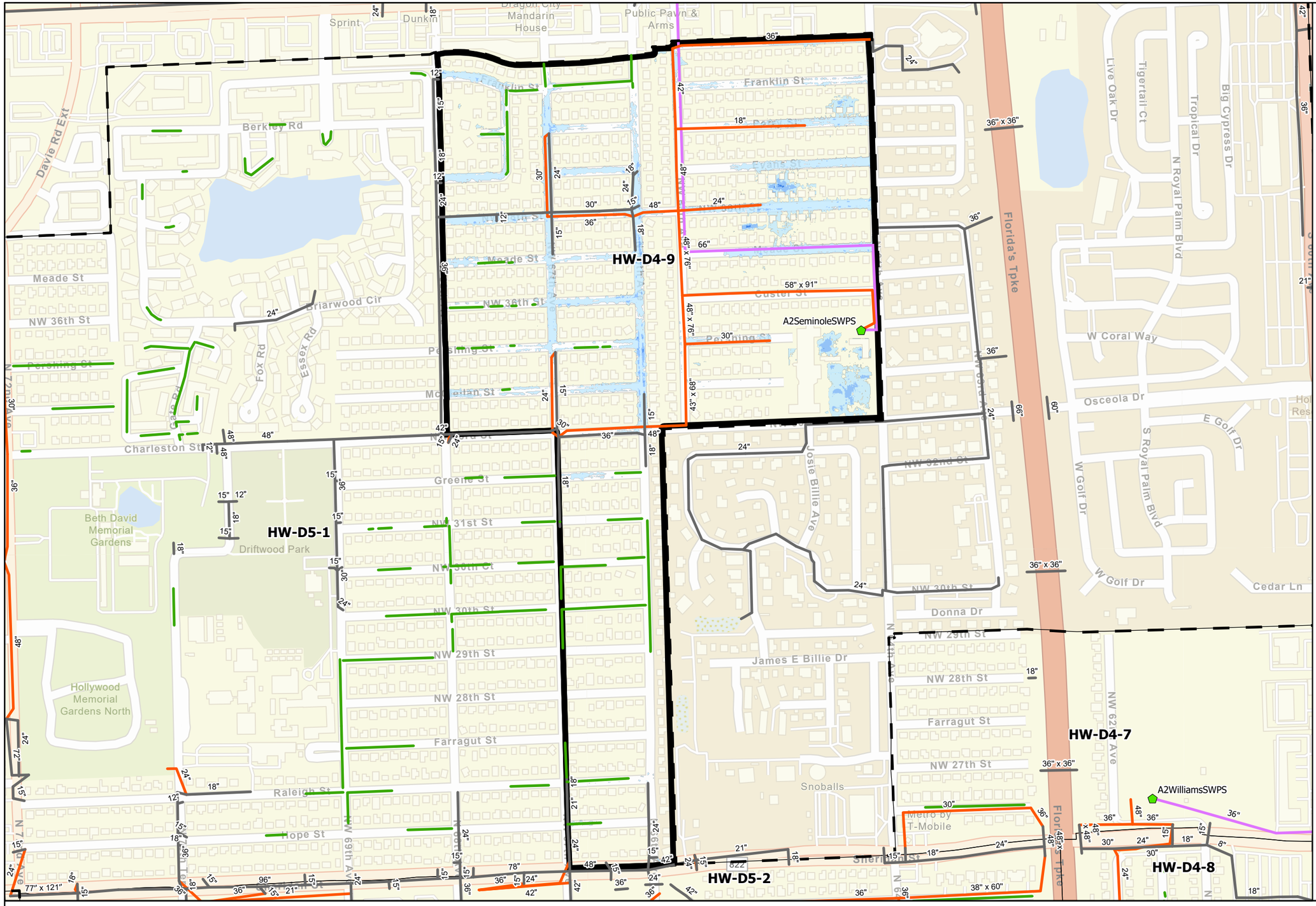

Predicted Flooding Reduction and Proposed ALT 2 CIP for 5-year Design Storm in CIP Area
Driftwood

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

0 295 590 1,180 Feet
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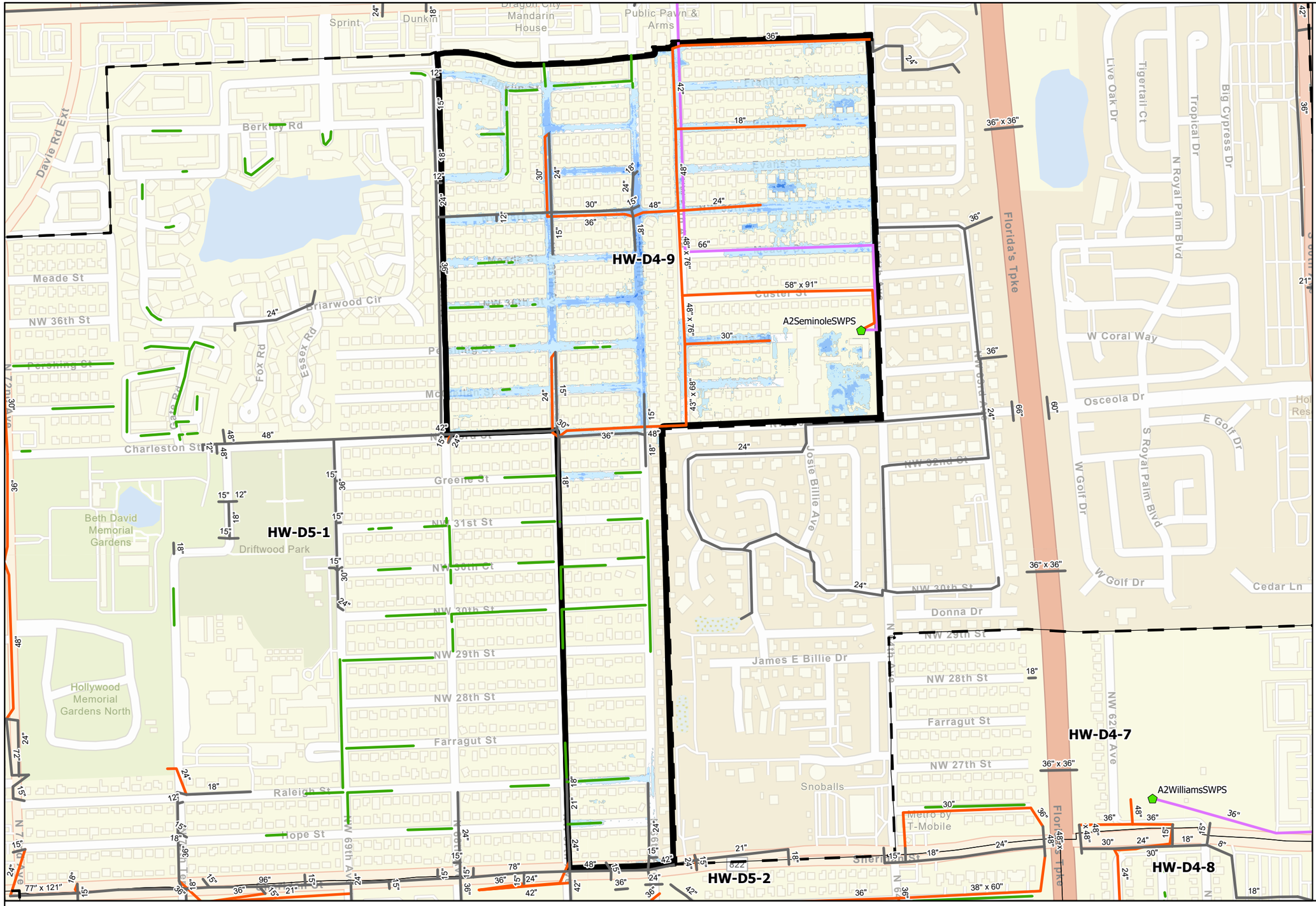

Predicted Flooding Reduction and Proposed ALT 2 CIP for 10-year Design Storm in CIP Area Driftwood

City of Hollywood Stormwater Master Plan

HW-D4-9_ALT2-10

2/28/2023

0 295 590 1,180 Feet

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		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	$ -
AIN 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	
								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	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.

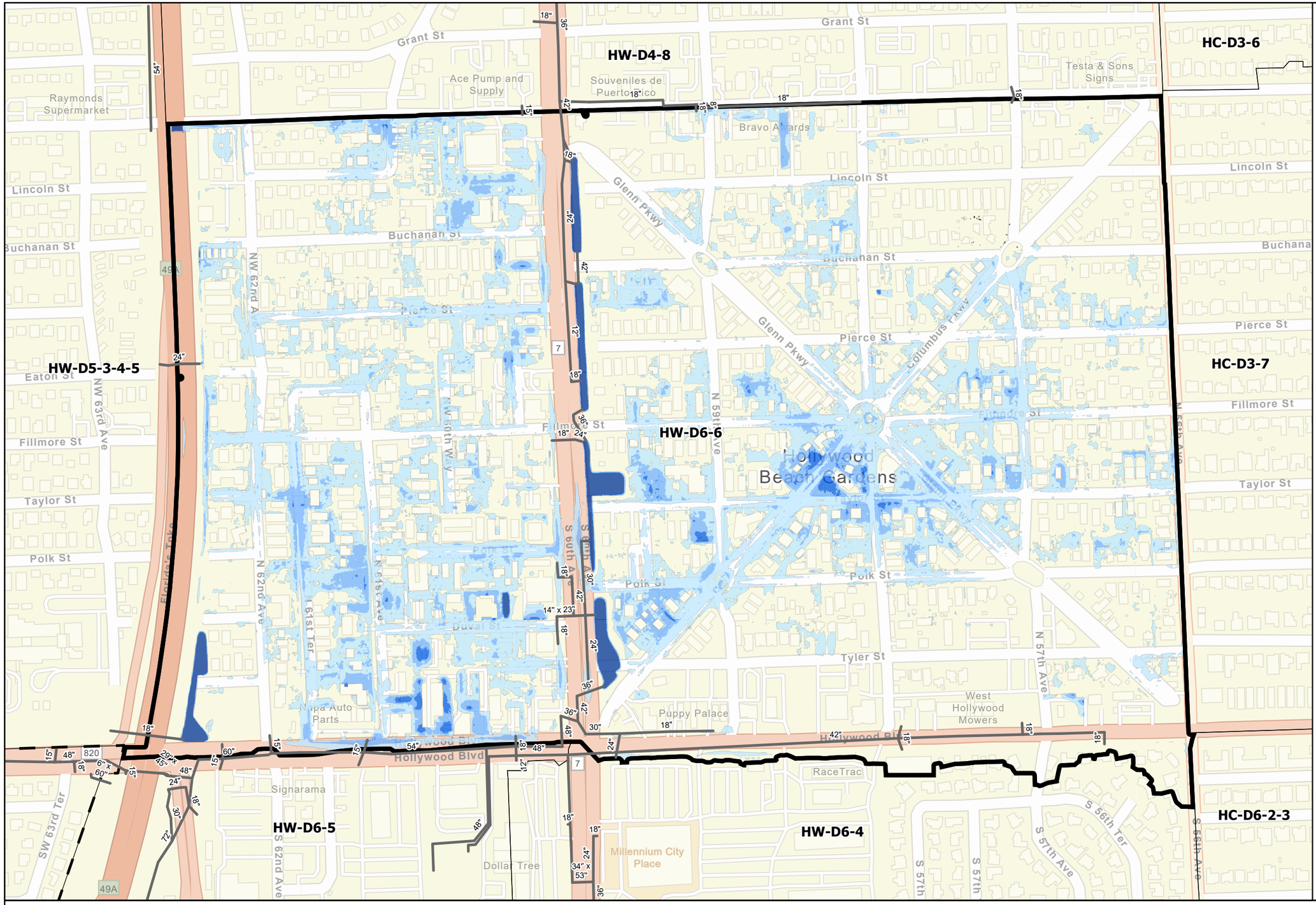
Summary of Offsite Issues Affecting CIP Area:

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**



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

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

0 212.5 425 850 Feet
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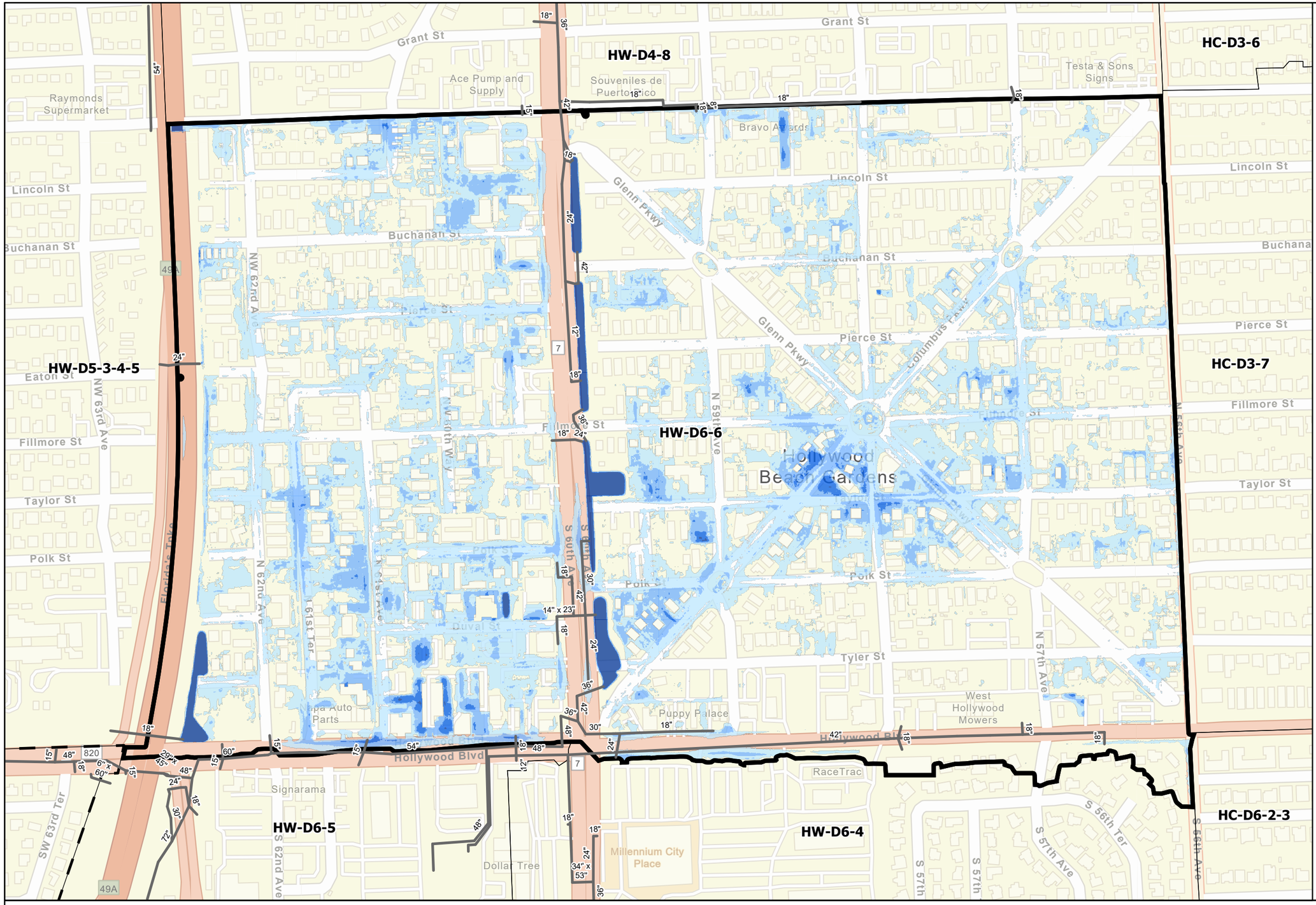

Legend

- 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 Cooridor South
10-year Design Storm

City of Hollywood Stormwater Master Plan

HW-D6-6_EC-10

2/28/2023

0 212.5 425 850 Feet

1:5,000

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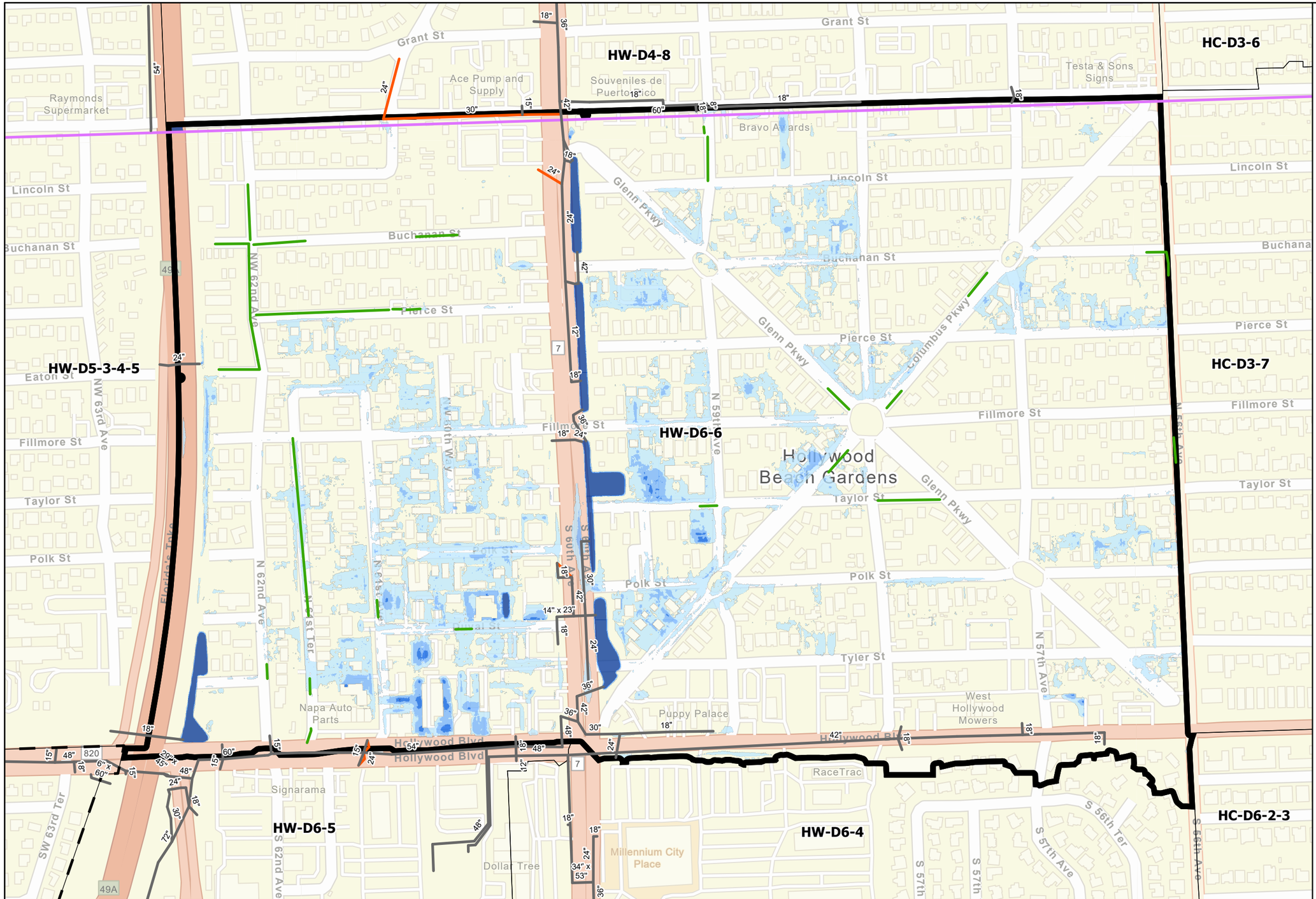

Legend

- 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 Cooridor South

0 212.5 425 850 Feet

1:5,000

City of Hollywood Stormwater Master Plan

HW-D6-6_ALT1-5

2/28/2023

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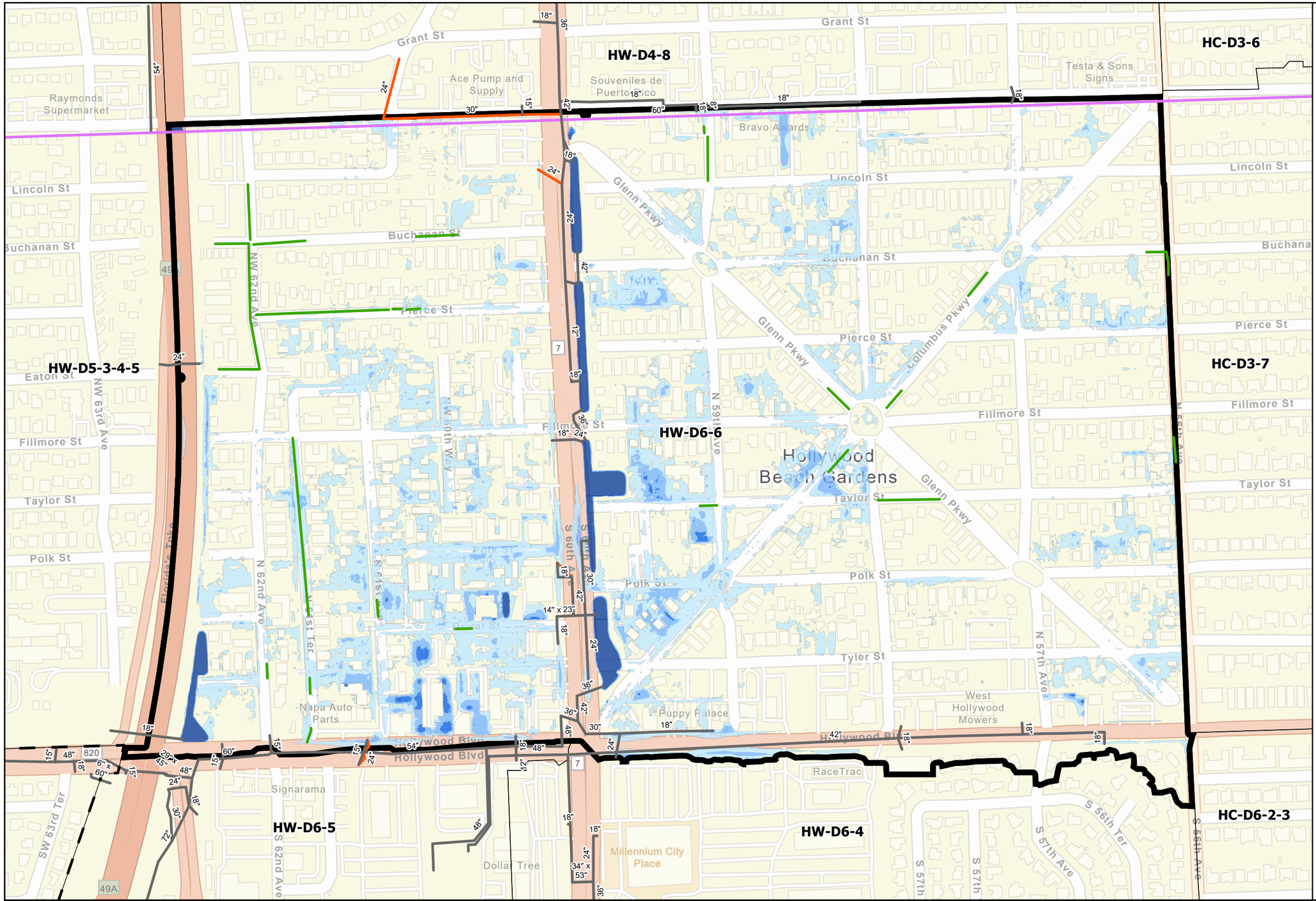

Predicted Flooding Reduction and Proposed ALT 1 CIP for 10-year Design Storm in CIP Area
Hollywood Gardens West / 441 Cooridor South

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

0 212.5 425 850 Feet
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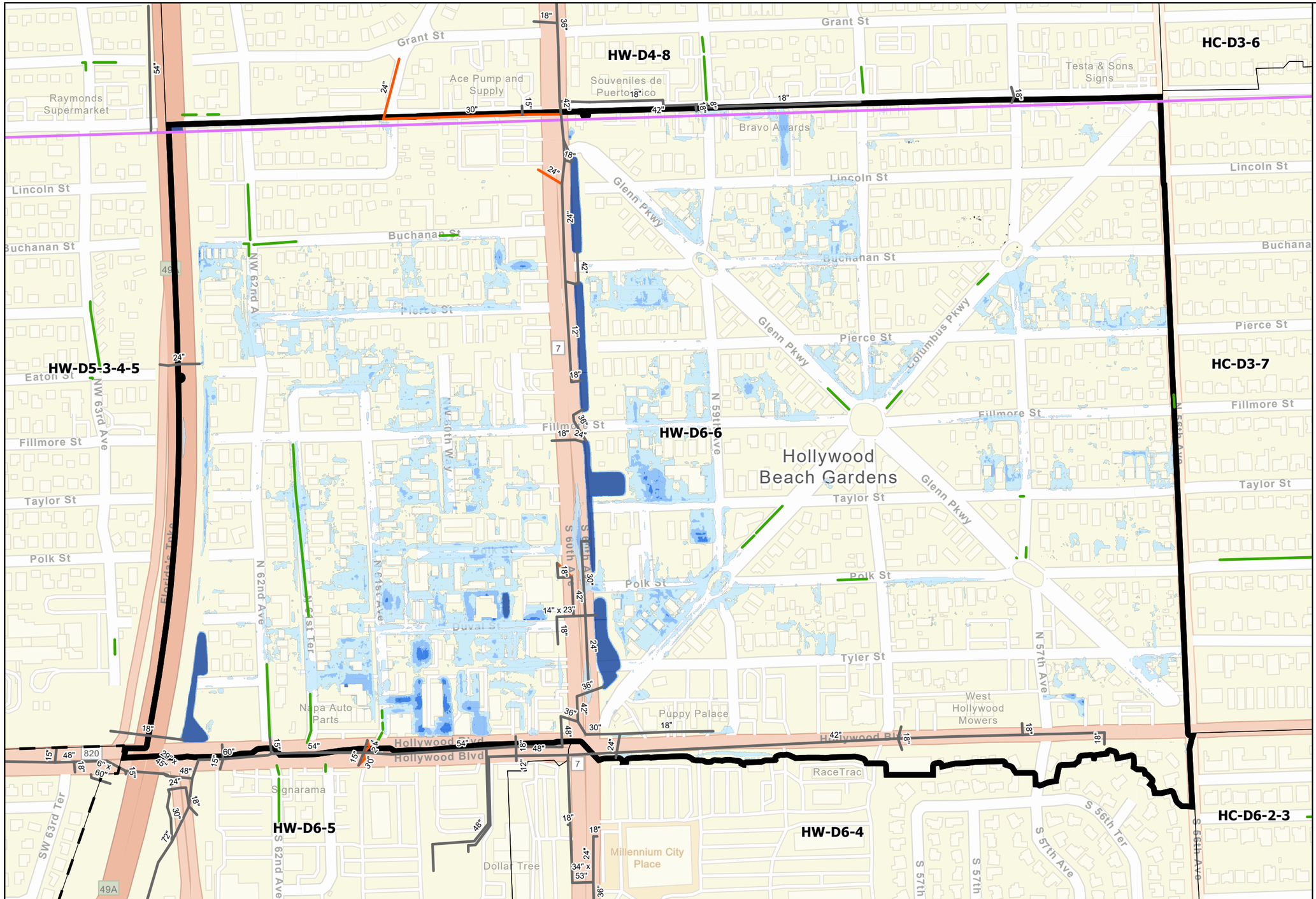

Legend

- 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.

CDM Smith

CITY OF Hollywood FLORIDA

Predicted Flooding Reduction and Proposed ALT 2 CIP for 5-year Design Storm in CIP Area Hollywood Gardens West / 441 Cooridor South

0 212.5 425 850 Feet

1:5,000

City of Hollywood Stormwater Master Plan

HW-D6-6_ALT2-5

2/28/2023

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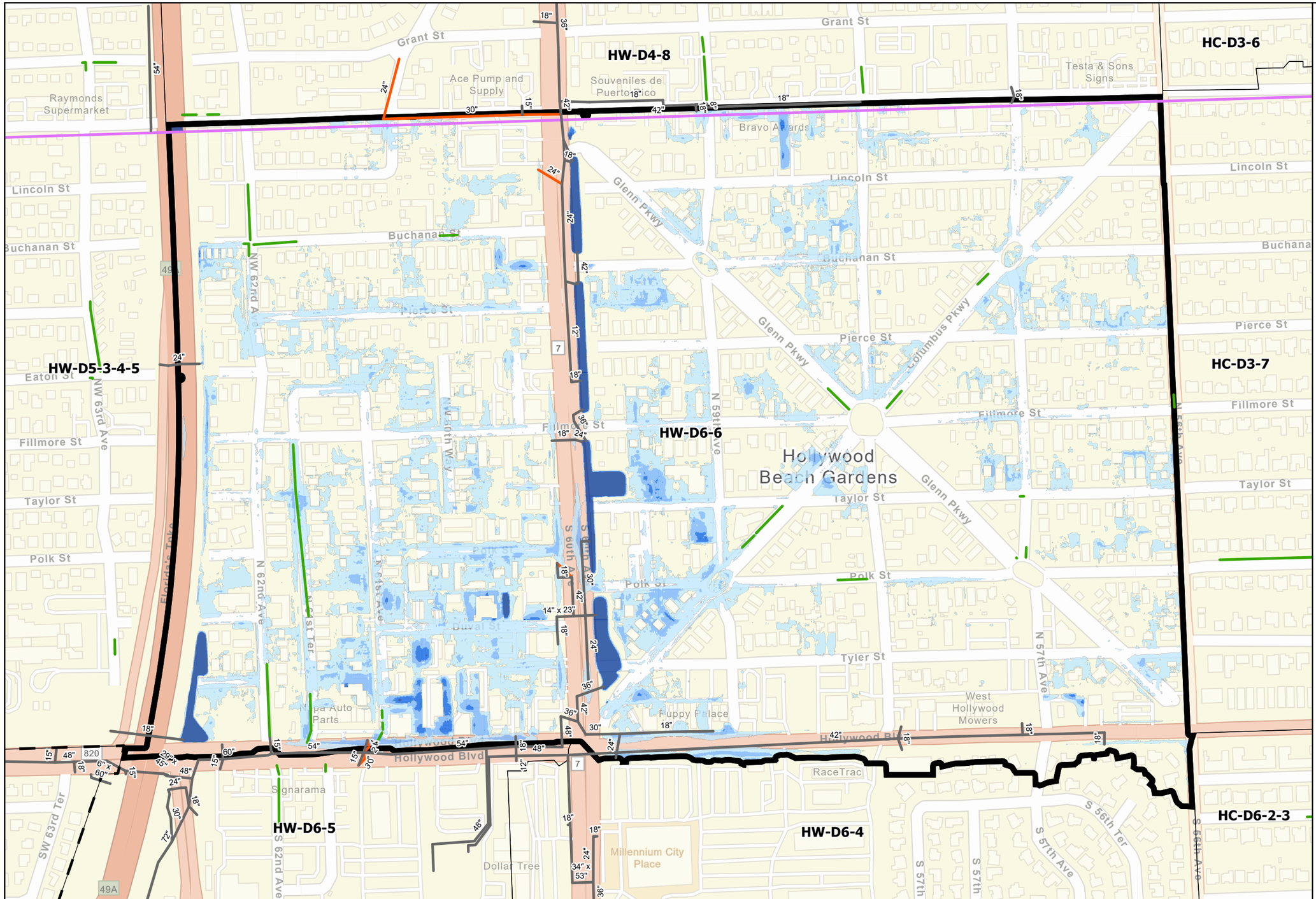

Legend

- 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.

CDM Smith

CITY OF Hollywood FLORIDA

Predicted Flooding Reduction and Proposed ALT 2 CIP for 10-year Design Storm in CIP Area Hollywood Gardens West / 441 Cooridor South

0 212.5 425 850 Feet

1:5,000

City of Hollywood Stormwater Master Plan

HW-D6-6_ALT2-10

2/28/2023

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		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	$ -
AIN SUBTOTAL									$ -
EXFILTRATION WITH GRAVITY MAINS								ridor South and Hollywood Garde	
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			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	5,811	$ 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 Garde	
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	$ -
IN SUBTOTAL									$ -
EXFILTRATION WITH GRAVITY MAINS								ridor South and Hollywood Garde	
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								ridor South and Hollywood Garde	
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									$ 3,222,209

- **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.

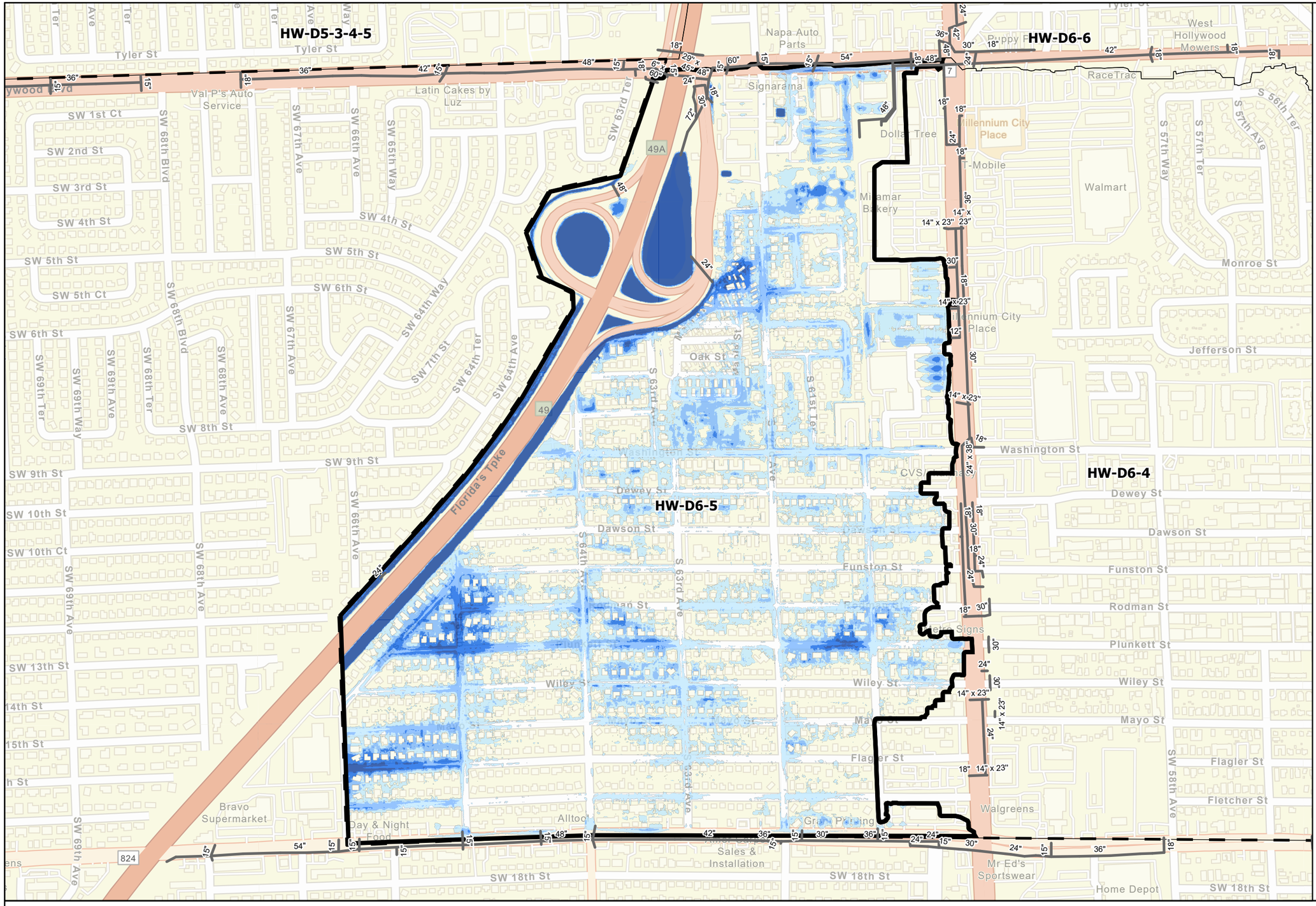
Summary of Offsite Issues Affecting CIP Area:

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.

Current Conditions Flooding in CIP Area
Beverly Park
5-year Design Storm

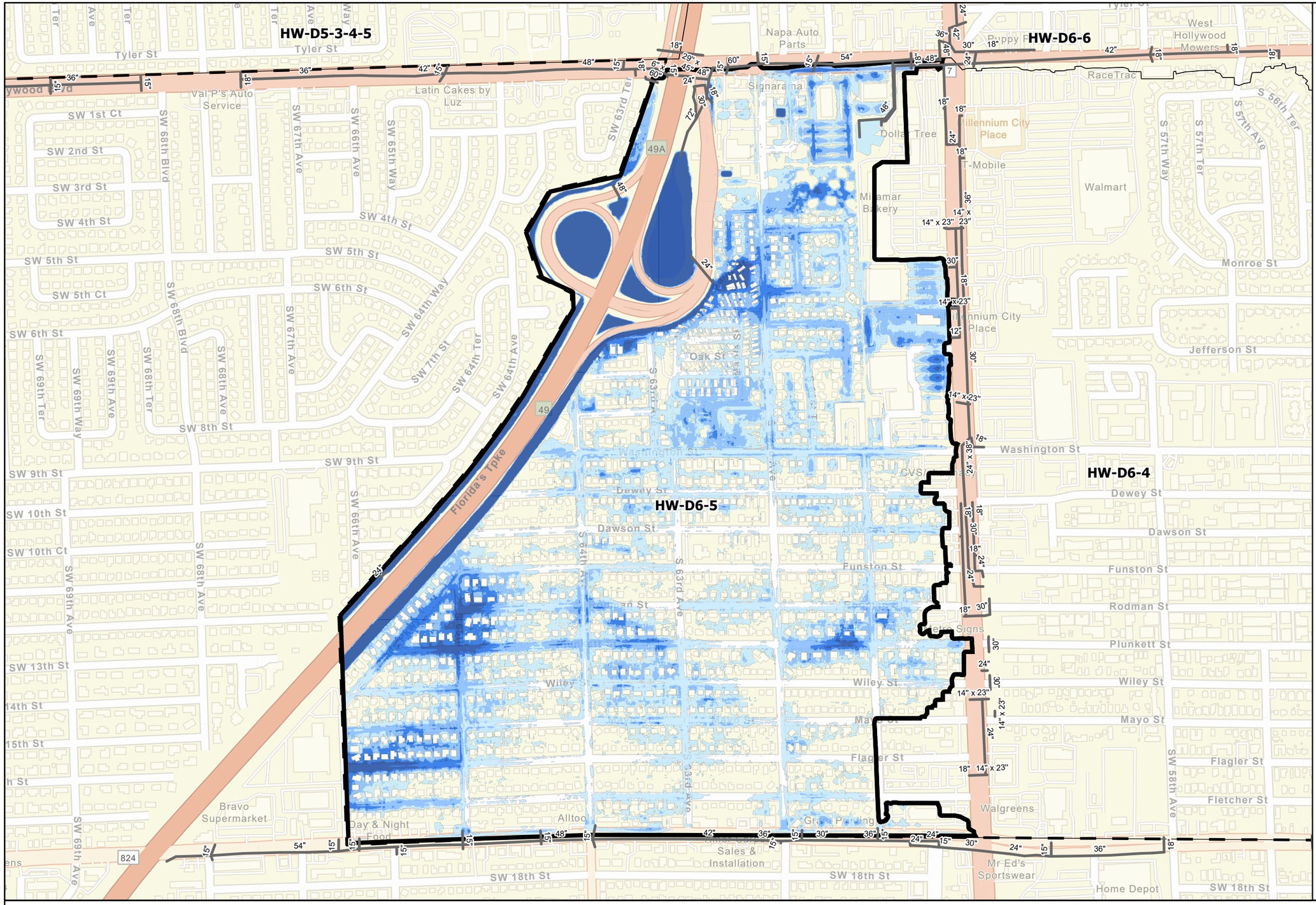
0 337.5 675 1,350 Feet

1:8,000

City of Hollywood Stormwater Master Plan

HW-D6-5_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.

CDM Smith

CITY OF Hollywood FLORIDA

Current Conditions Flooding in CIP Area
Beverly Park
10-year Design Storm

0 337.5 675 1,350 Feet

1:8,000

City of Hollywood Stormwater Master Plan

HW-D6-5_EC-10

2/28/2023

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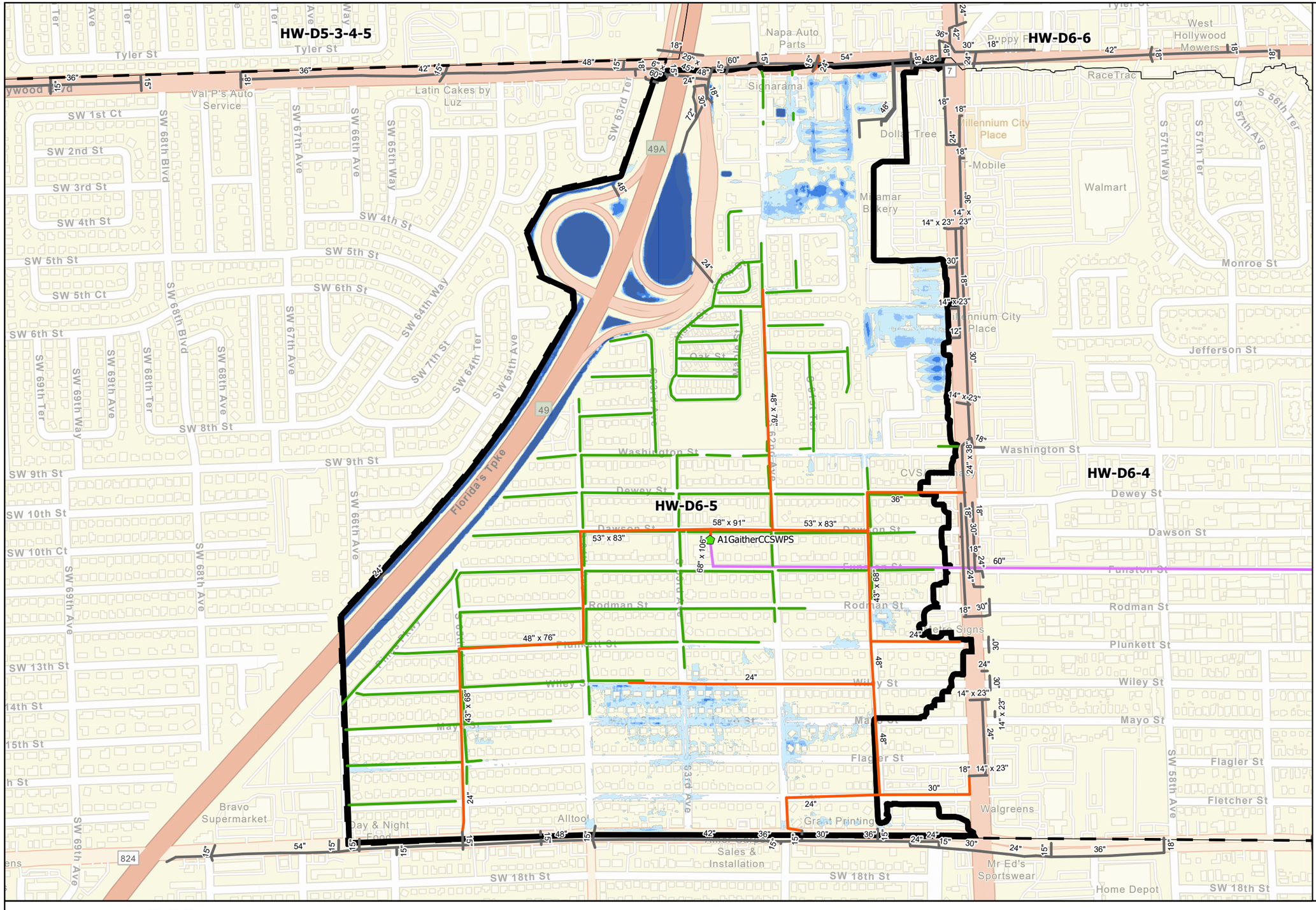

Predicted Flooding Reduction and Proposed ALT 1 CIP for 5-year Design Storm in CIP Area
Beverly Park

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

0 337.5 675 1,350 Feet
1:8,000

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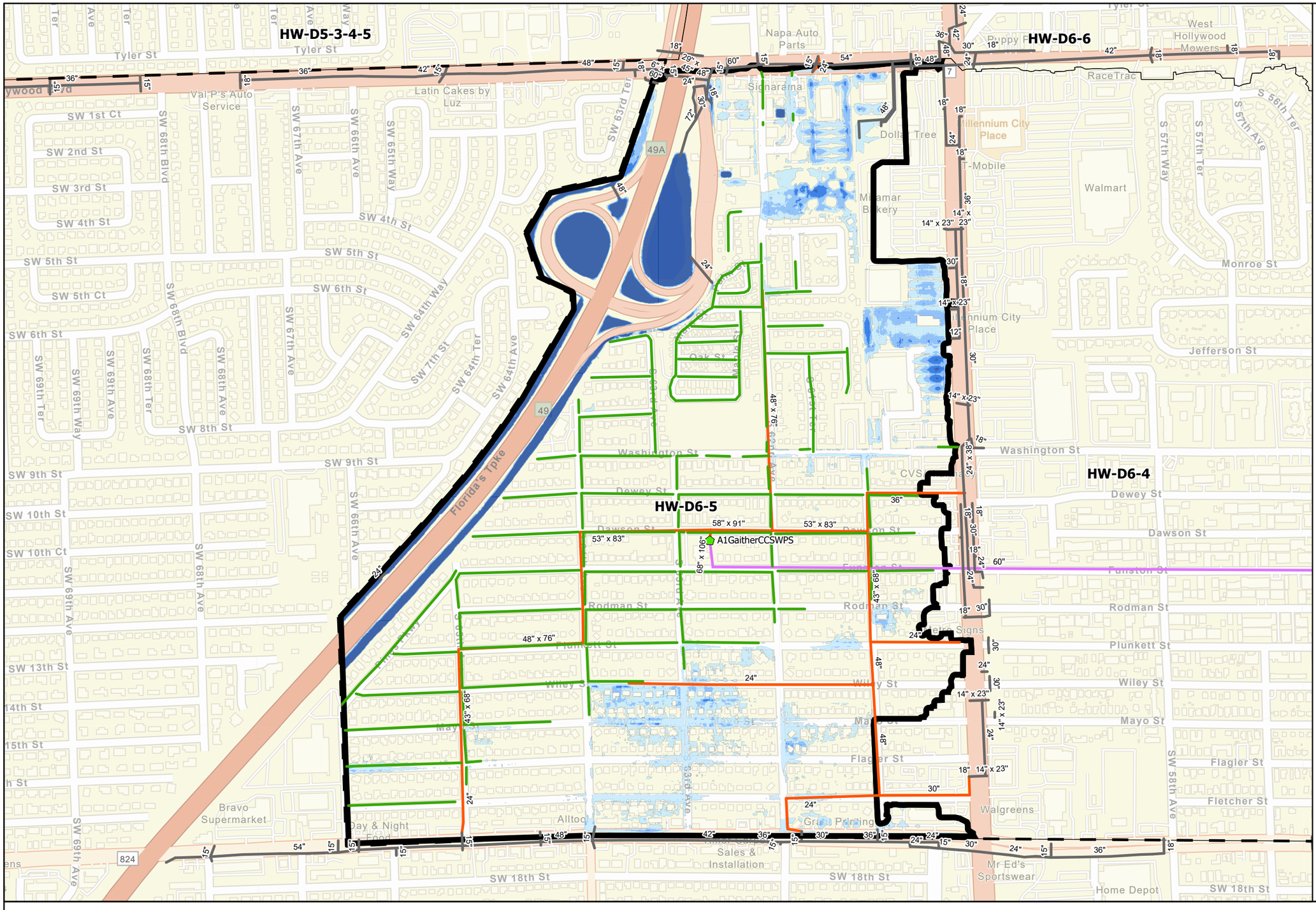

Predicted Flooding Reduction and Proposed ALT 1 CIP for 10-year Design Storm in CIP Area
Beverly Park

0 337.5 675 1,350 Feet
1:8,000

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

HW-D5-3-4-5

HW-D6-6

HW-D6-4

HW-D6-5

A2Fletcher63SWPS

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

CDM Smith

CITY OF Hollywood FLORIDA

0 337.5 675 1,350 Feet

1:8,000

City of Hollywood Stormwater Master Plan

HW-D6-5_ALT2-5

2/28/2023

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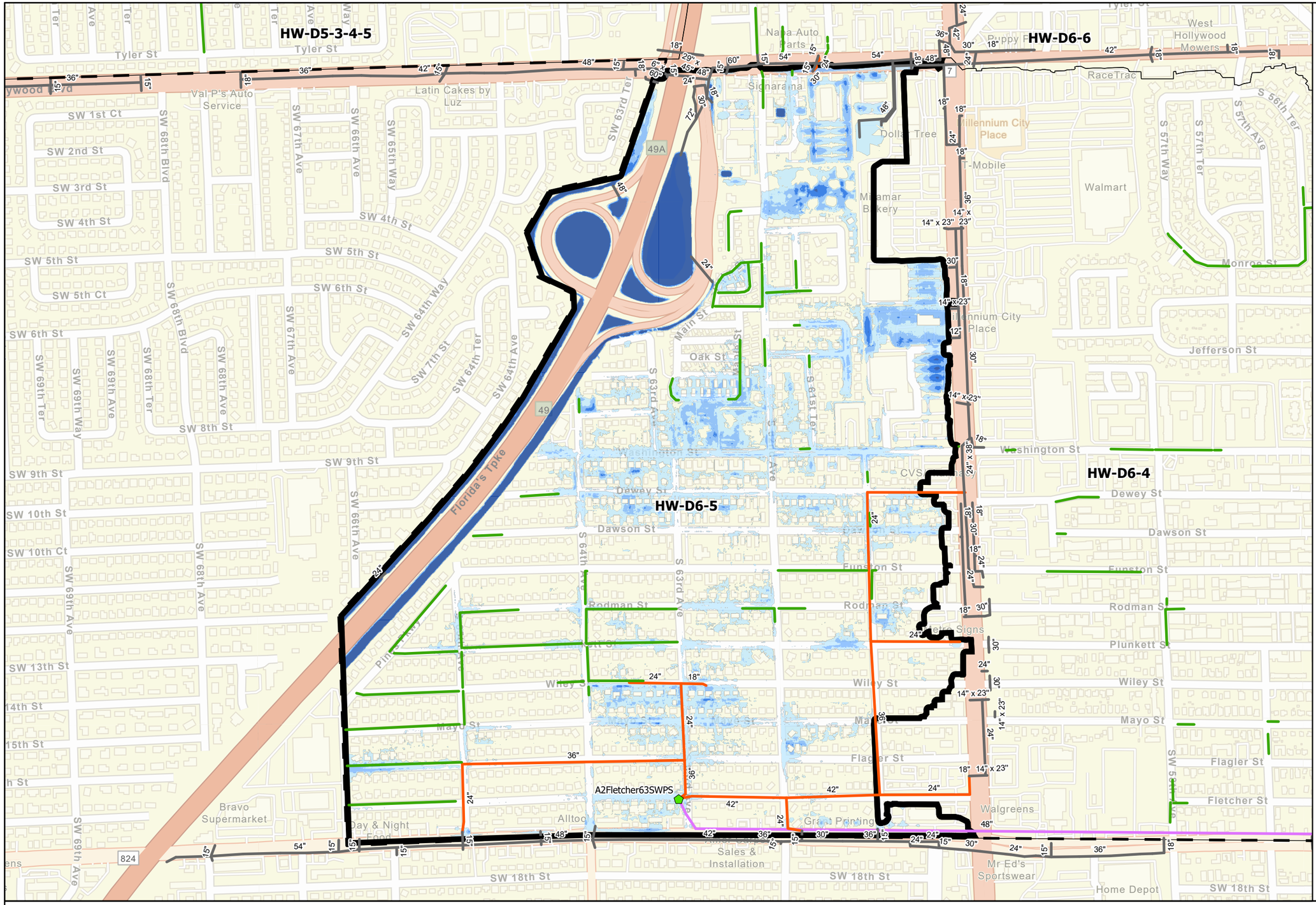

Legend

- 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 Beverly Park

0 337.5 675 1,350 Feet

1:8,000

City of Hollywood Stormwater Master Plan

HW-D6-5_ALT2-10

2/28/2023

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		CONCEPTUAL CAPITAL COST ESTIMATE					D6_5 Beverly 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	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	$ -
AIN 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	
								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	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.

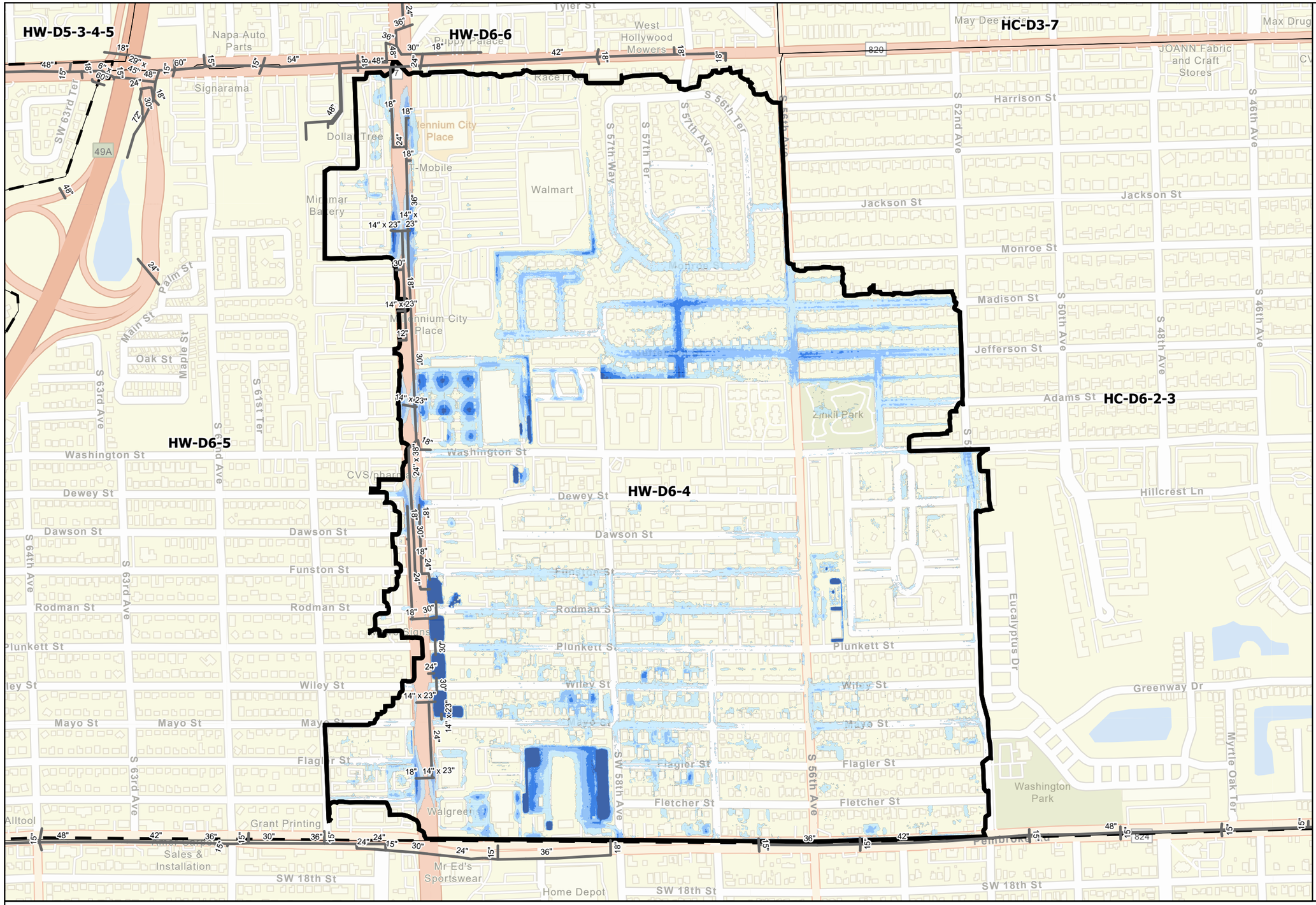
Summary of Offsite Issues Affecting CIP Area:

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

- <= 0 ft.
- 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

0 337.5 675 1,350 Feet

1:8,000

City of Hollywood Stormwater Master Plan

HW-D6-4_EC-5

2/28/2023

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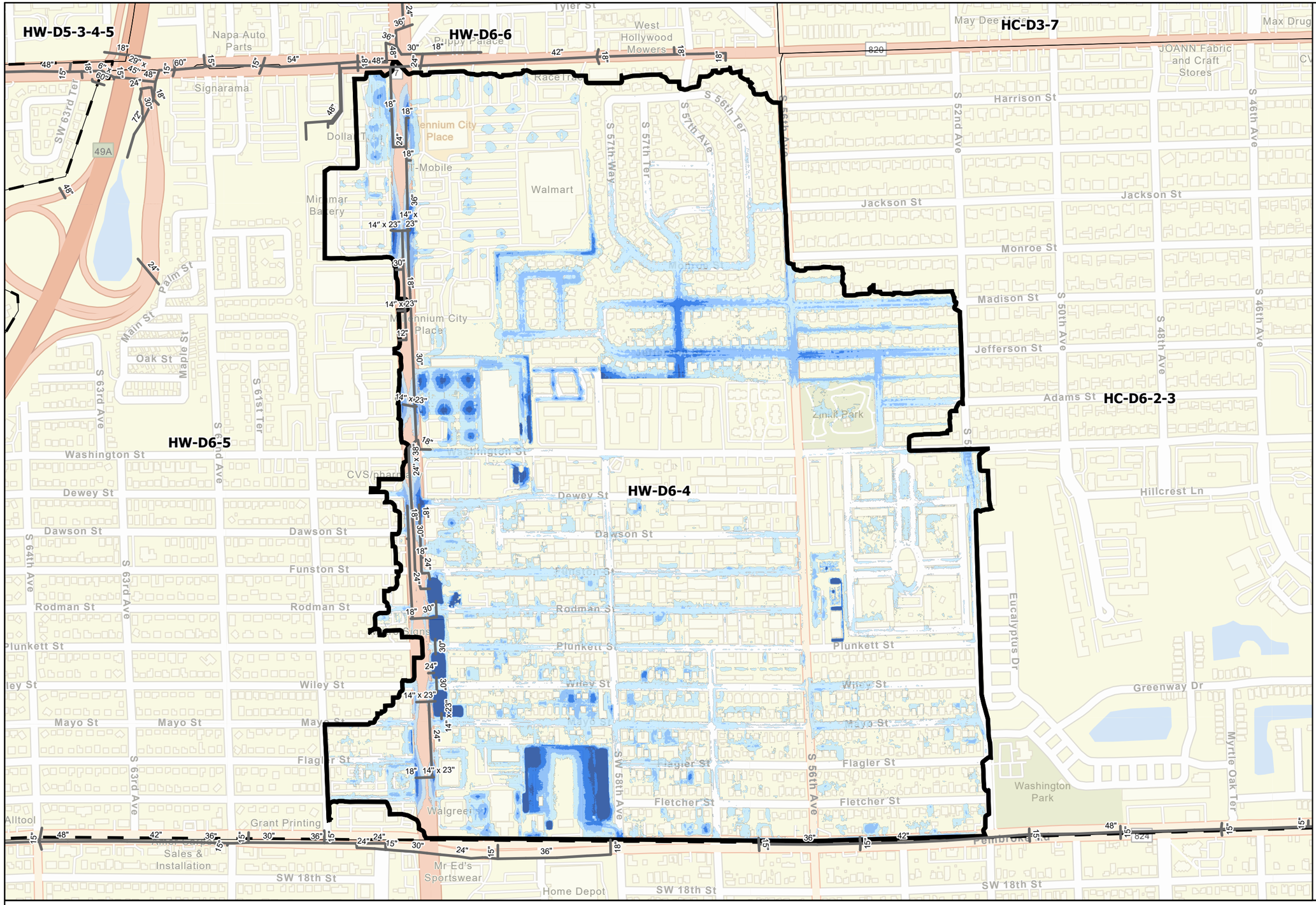

Legend

- 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

0 337.5 675 1,350 Feet

1:8,000

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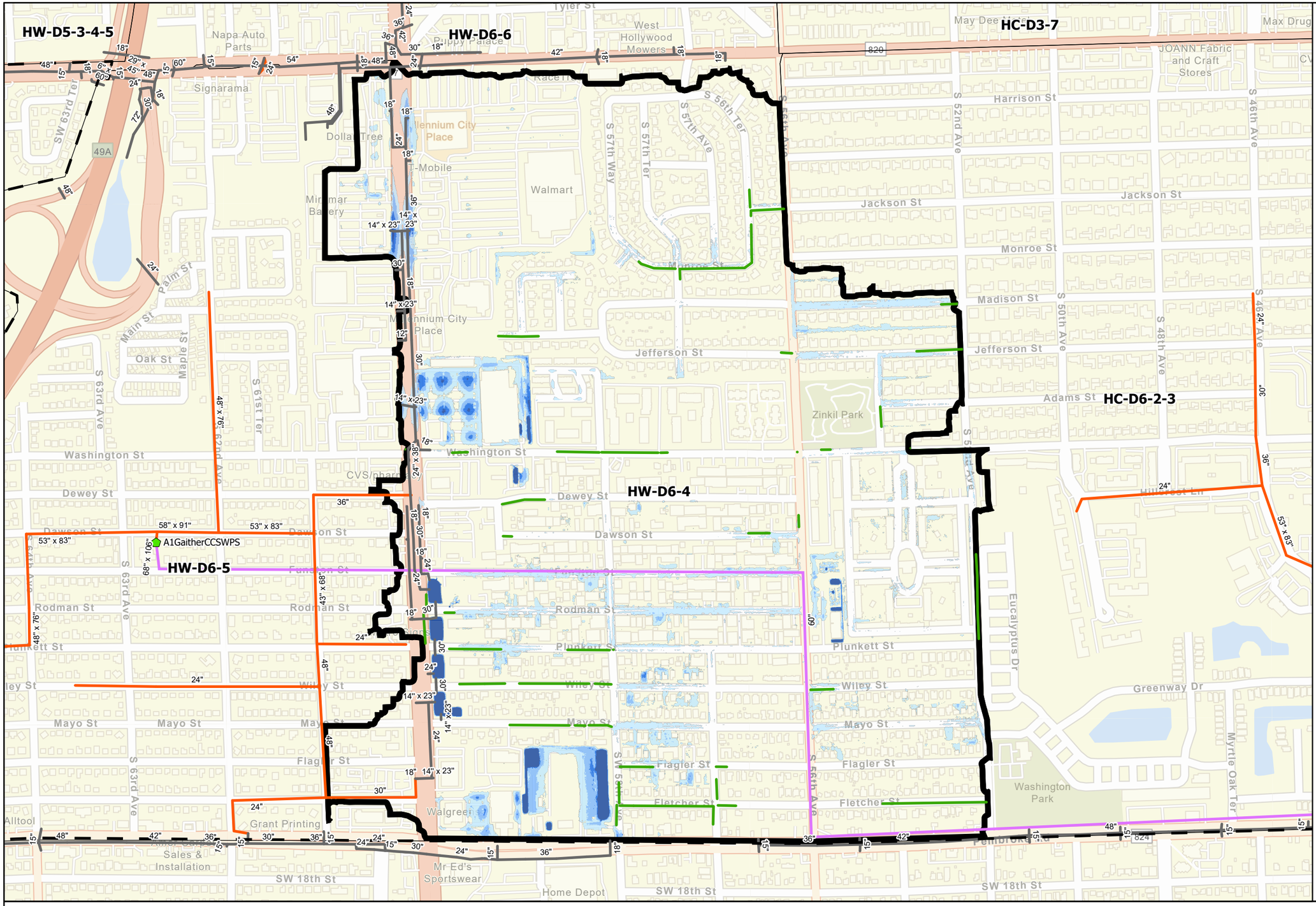

Legend

- 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
Lawn Acres / Washington Park

0 337.5 675 1,350 Feet

1:8,000

City of Hollywood Stormwater Master Plan

HW-D6-4_ALT1-5

2/28/2023

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HW-D5-3-4-5

HW-D6-6

HC-D3-7

HC-D6-2-3

HW-D6-4

HW-D6-5

A1GaitherCCSWPS

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

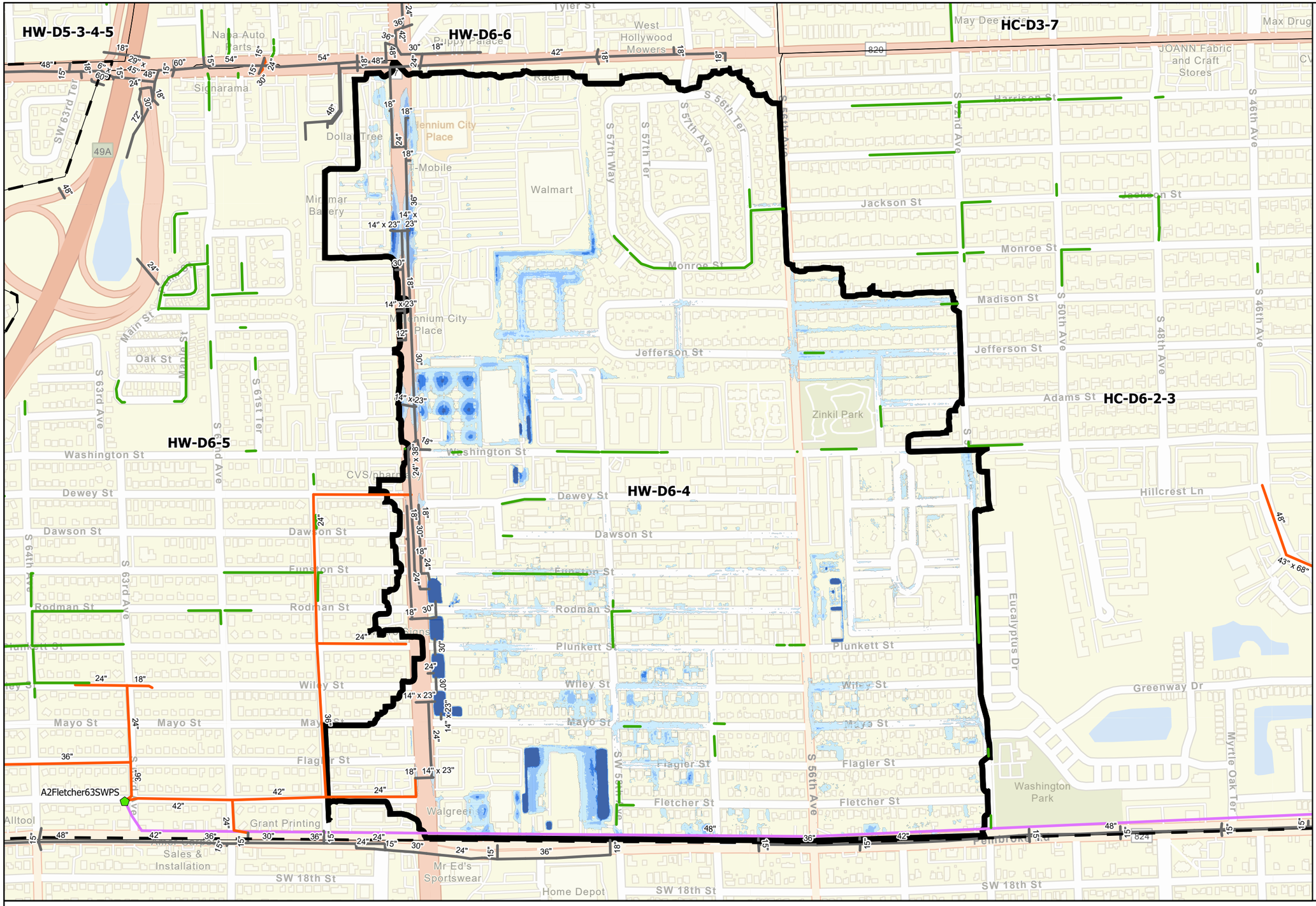
City of Hollywood Stormwater Master Plan

HW-D6-4_ALT1-10

2/28/2023

0 337.5 675 1,350 Feet

1:8,000



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

0 337.5 675 1,350 Feet
1:8,000

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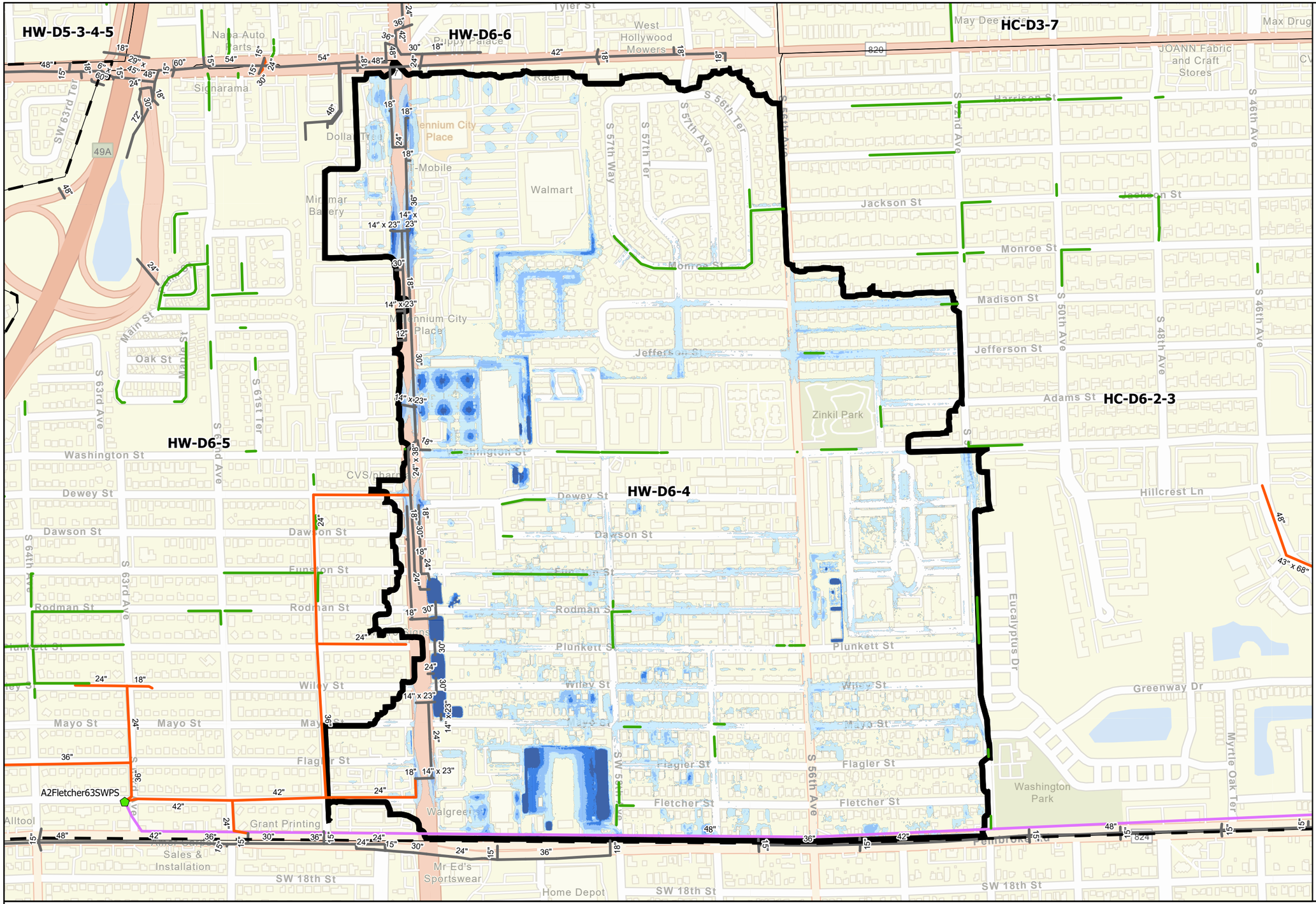

Predicted Flooding Reduction and Proposed ALT 2 CIP for 10-year Design Storm in CIP Area
Lawn Acres / Washington Park

0 337.5 675 1,350 Feet

1:8,000

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

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		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	$ -
AIN 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.

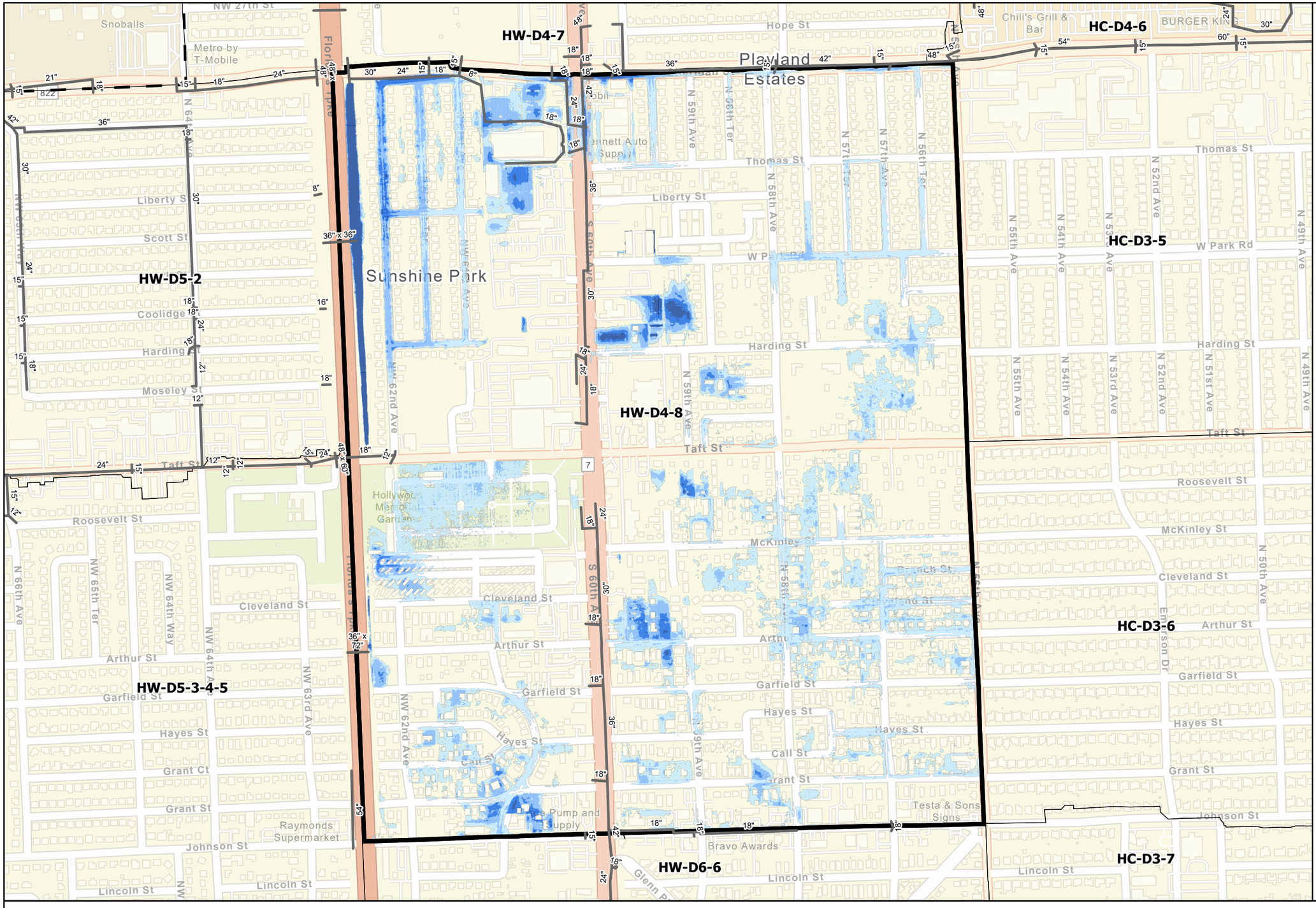
Summary of Offsite Issues Affecting CIP Area:

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**



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

City of Hollywood Stormwater Master Plan
HW-D4-8_EC-5
2/28/2023

0 337.5 675 1,350 Feet
1:8,000

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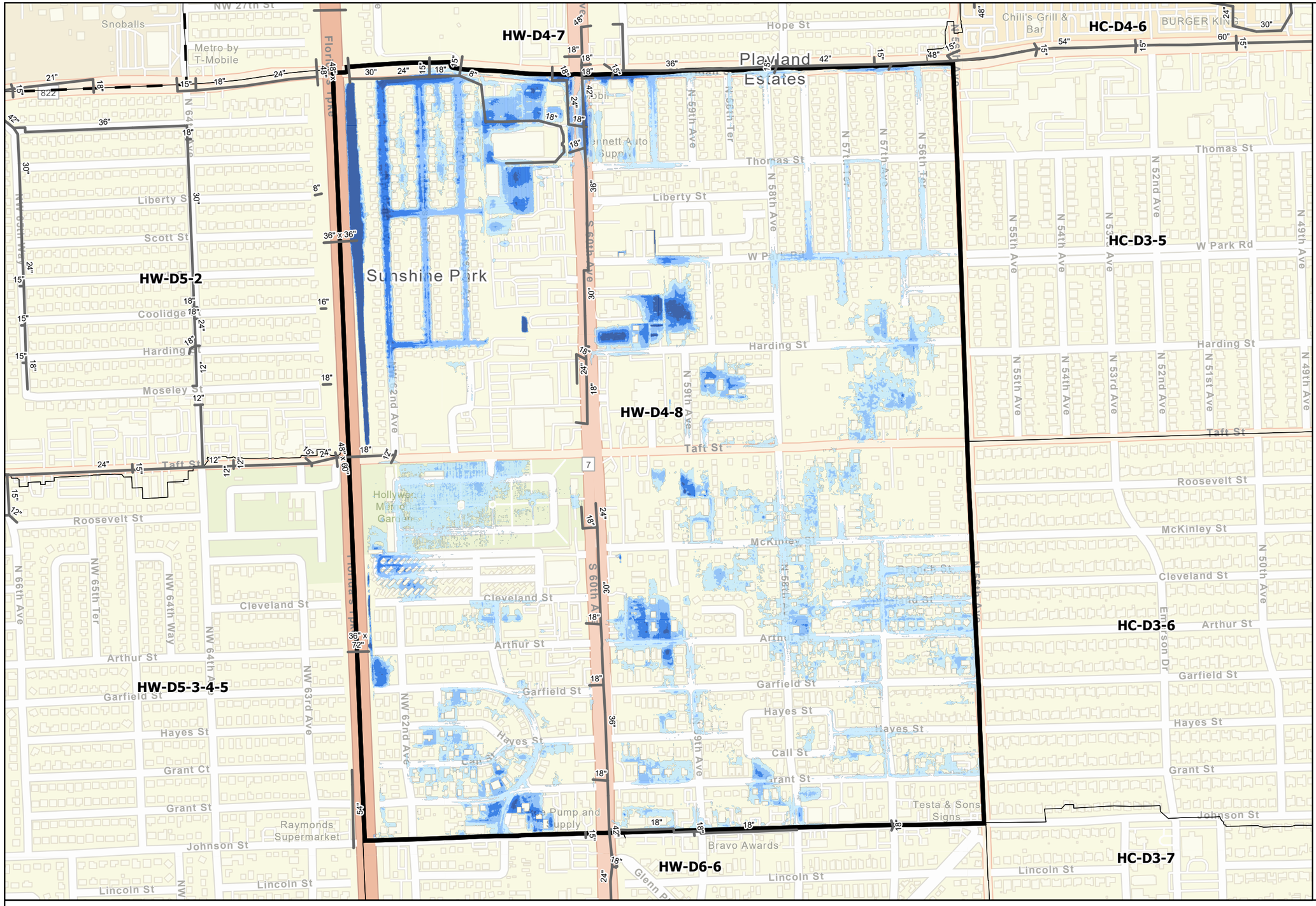


Legend

- 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

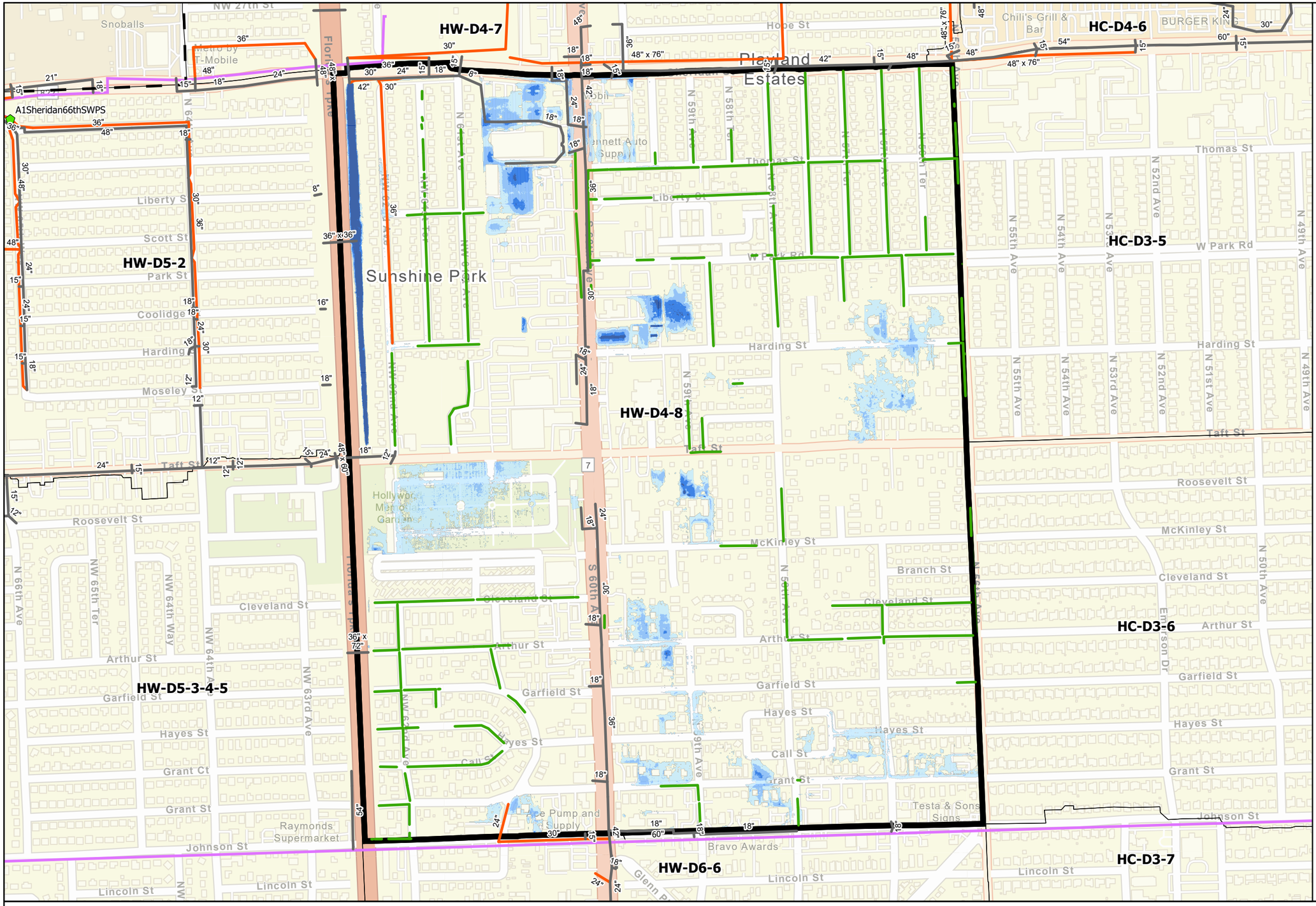
0 337.5 675 1,350 Feet

1:8,000

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.

CDM Smith

CITY OF Hollywood FLORIDA

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

0 337.5 675 1,350 Feet

1:8,000

City of Hollywood Stormwater Master Plan

HW-D4-8_ALT1-5

2/28/2023

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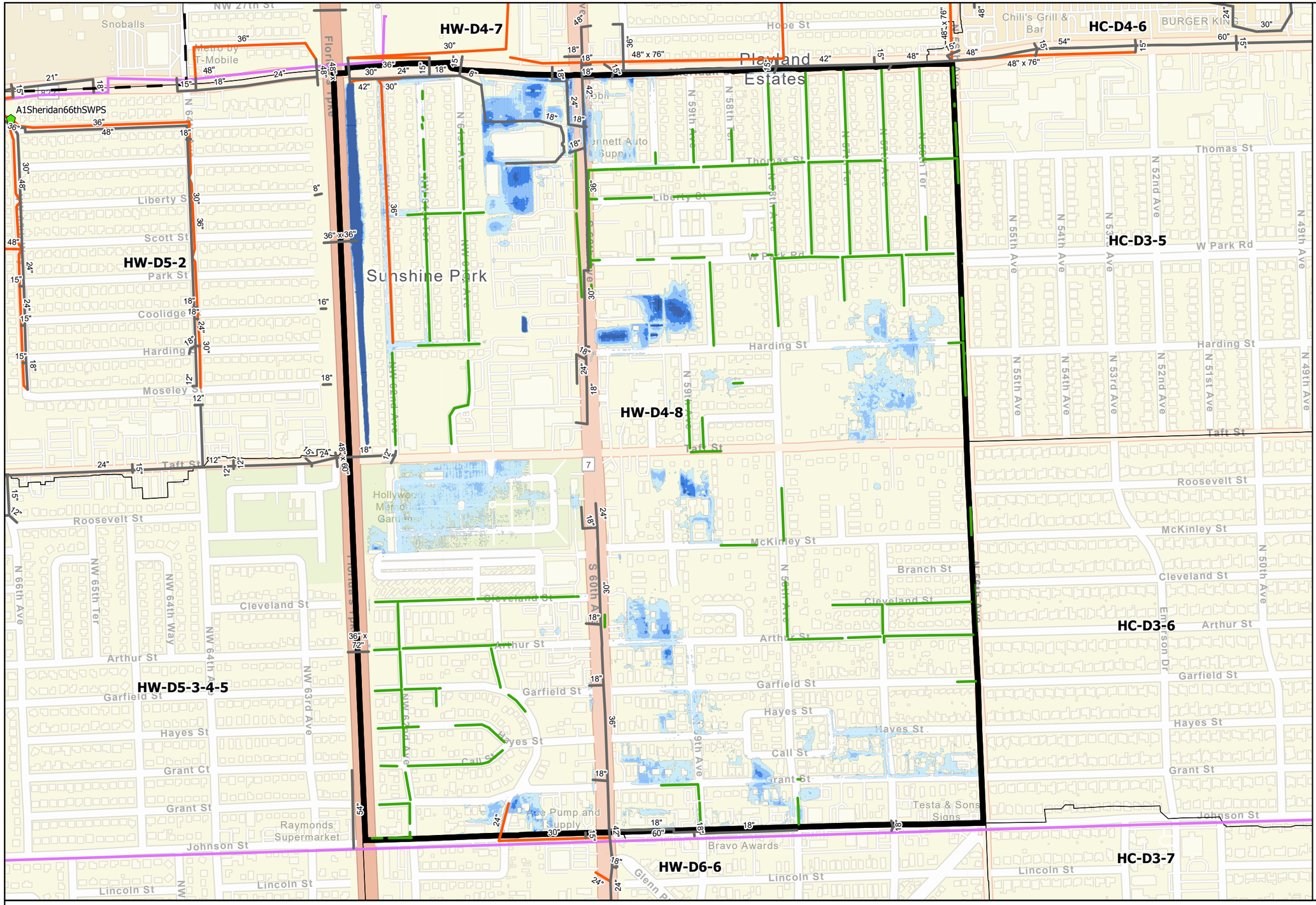

CDM Smith

CITY OF Hollywood FLORIDA

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

0 337.5 675 1,350 Feet

1:8,000

City of Hollywood Stormwater Master Plan

HW-D4-8_ALT1-10

2/28/2023

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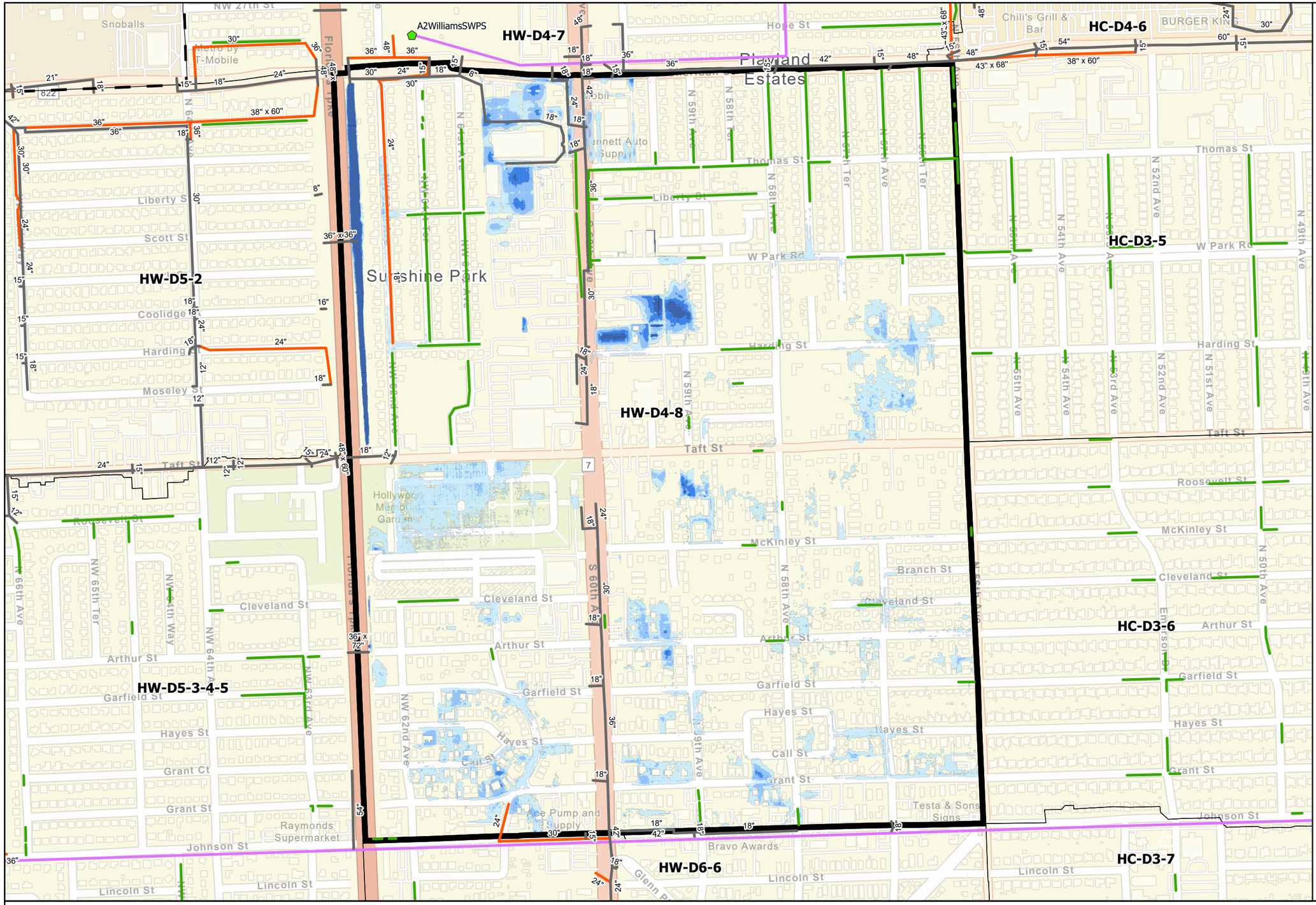

Predicted Flooding Reduction and Proposed ALT 2 CIP for 5-year Design Storm in CIP Area
441 Cooridor Central / Hollywood Gardens West

City of Hollywood Stormwater Master Plan
HW-D4-8_ALT2-5
2/28/2023

0 337.5 675 1,350 Feet
1:8,000

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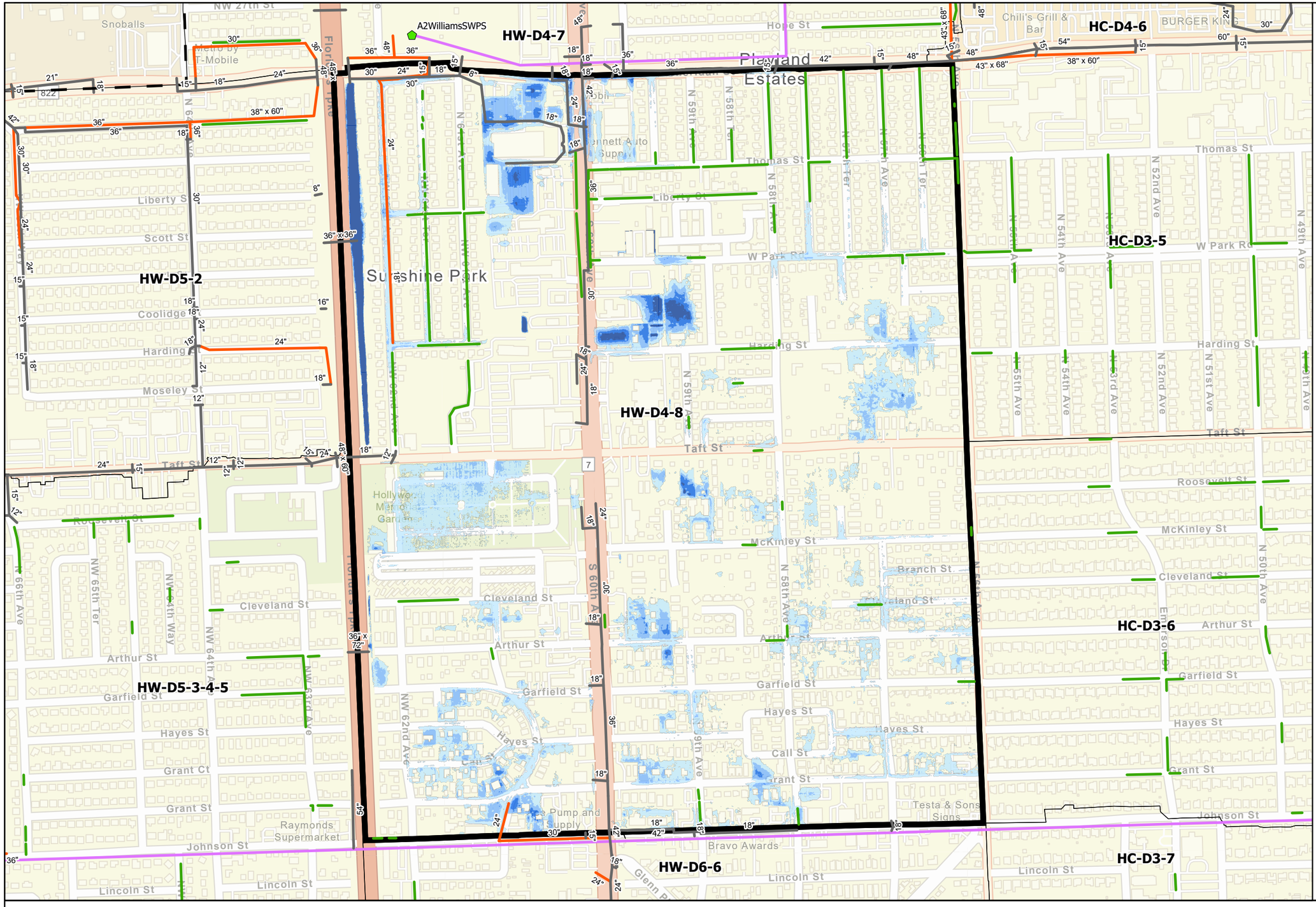

Predicted Flooding Reduction and Proposed ALT 2 CIP for 10-year Design Storm in CIP Area
441 Cooridor Central / Hollywood Gardens West

City of Hollywood Stormwater Master Plan
HW-D4-8_ALT2-10
2/28/2023

0 337.5 675 1,350 Feet
1:8,000

		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	$ -
AIN SUBTOTAL									$ -
EXFILTRATION WITH GRAVITY MAINS								orridor Central and Hollywood Gar	
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								orridor Central and Hollywood Gar	
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								orridor Central and Hollywood Ga	
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								orridor Central and Hollywood Ga	
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**

HC-D4-4
HC-D4-5
HC-D4-6
HC-D4-3
HC-D4-2
HC-D3-3-4
HC-D3-5
HW-D4-7
HW-D4-8
HW-D4-9
HW-D5-1
HW-D5-2
Davie
Playland Isles
Broward Gardens
Seminole Paradise
Hollywood Memorial Gardens North
Hollywood Reservation
Patrick J Meli Park
Club at Emerald Hills
Sheridan Plaza
Griffin Rd
Orange Dr
Stirling Rd
Hollywood Canal
Florida's Turnpike
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.
N
CDM Smith
CITY OF Hollywood FLORIDA
Current Conditions Flooding in CIP Area
Playland / 441 Corridor North
5-year Design Storm
0 500 1,000 2,000 Feet
1:18,000
City of Hollywood Stormwater Master Plan
HW-D4-7_EC-5
2/28/2023
SUSINOBM D:\Hollywood SWMP\Final Report Figures\Hollywood Final Report Figures - Map Series\Hollywood Final Report Figures - Map Series.aprx 2/28/2023