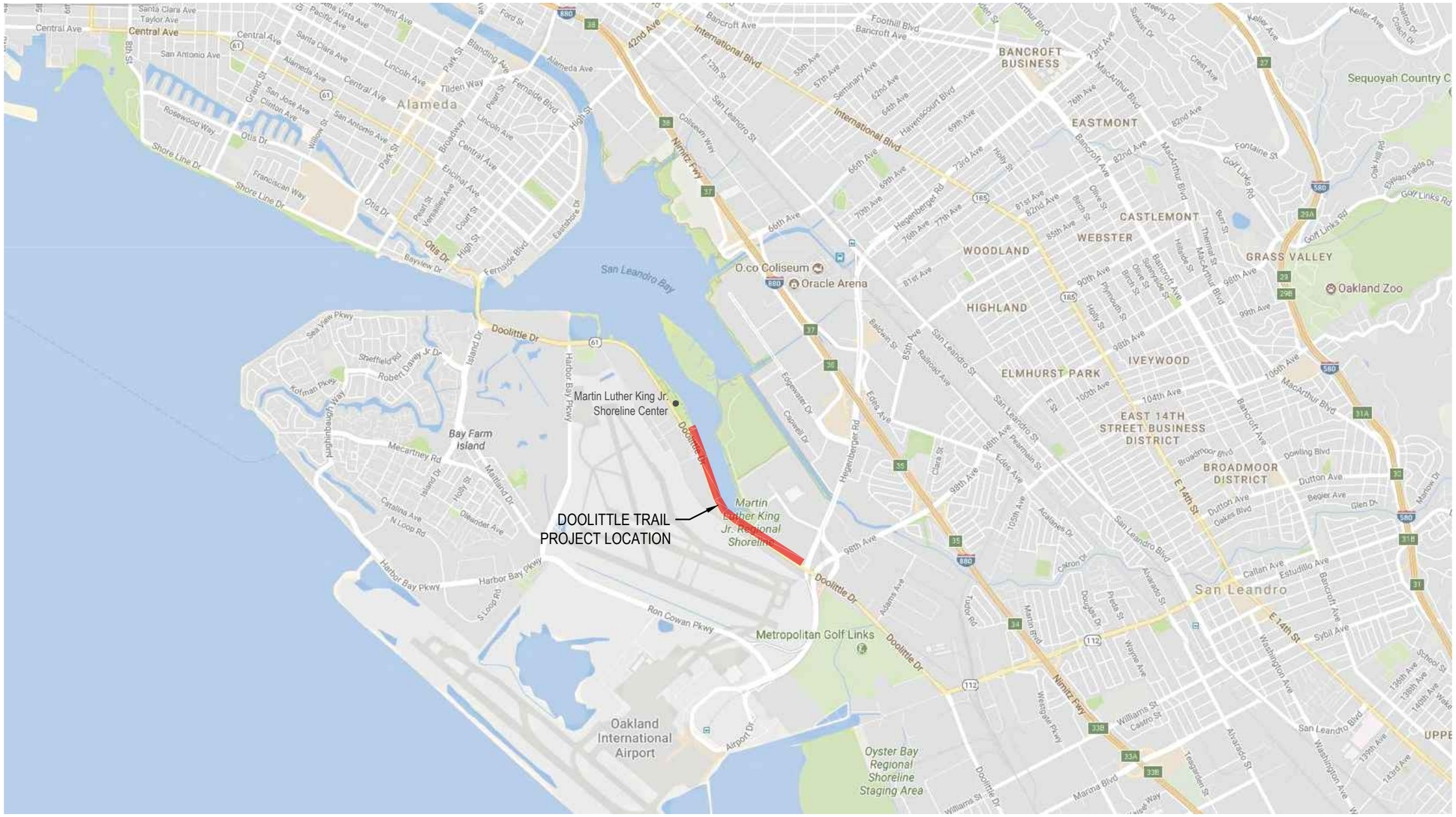


PLAN NORTH

AUGUST 7, 2017
DESIGN REVIEW BOARD

East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
PROJECT LOCATION

FIGURE 1

ALAMEDA

SAN LEANDRO BAY

GARRETSON POINT

ROBERT CROWN MEMORIAL STATE BEACH

BAY TRAIL GAP

ARROWHEAD MARSH

DOOLITTLE DRIVE

BAY FARM RECREATION CENTER

MARTIN LUTHER KING JR. SHORELINE CENTER

COLUMBIAN GARDENS PARK

ARROWHEAD MARSH TRAIL

AIRPORT CHANNEL

SWAN WAY

HEGENBERGER

BAY TRAIL GAP

MARTIN LUTHER KING JR. DRIVE

DOOLITTLE DRIVE

BAY FARM ISLAND

OAKLAND INTERNATIONAL AIRPORT

DOOLITTLE DRIVE

METROPOLITAN GOLF LINKS

SAN FRANCISCO BAY

LEGEND:

- BAY TRAIL (OFF STREET)
- BAY TRAIL (ON STREET)
- UNIMPROVED BAY TRAIL

AUGUST 7, 2017
DESIGN REVIEW BOARD

0 1000' 2000' 4000'

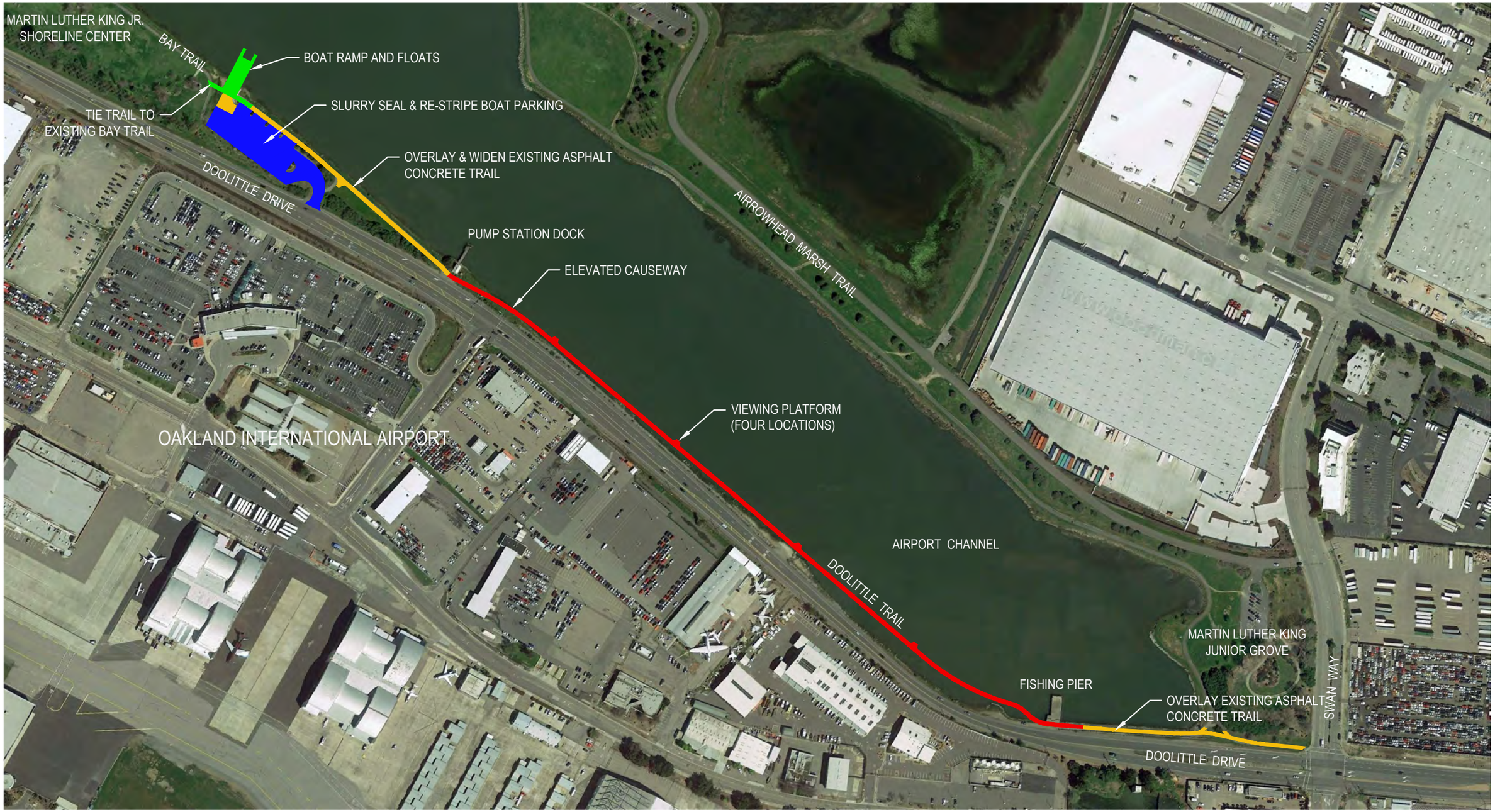
PLAN NORTH

East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
AREA CONTEXT

FIGURE 2



LEGEND:

- PROPOSED NEW CONCRETE TRAIL AND CAUSEWAY
- RESURFACE AND/OR WIDEN EXISTING AC PAVED TRAIL
- CONCRETE BOAT LAUNCH RAMP AND TRAIL CONNECTION (REMOVE AND REPLACE EXISTING)
- SLURRY SEAL AND RESTRIPE PARKING LOT

AUGUST 7, 2017
DESIGN REVIEW BOARD

NOT TO SCALE

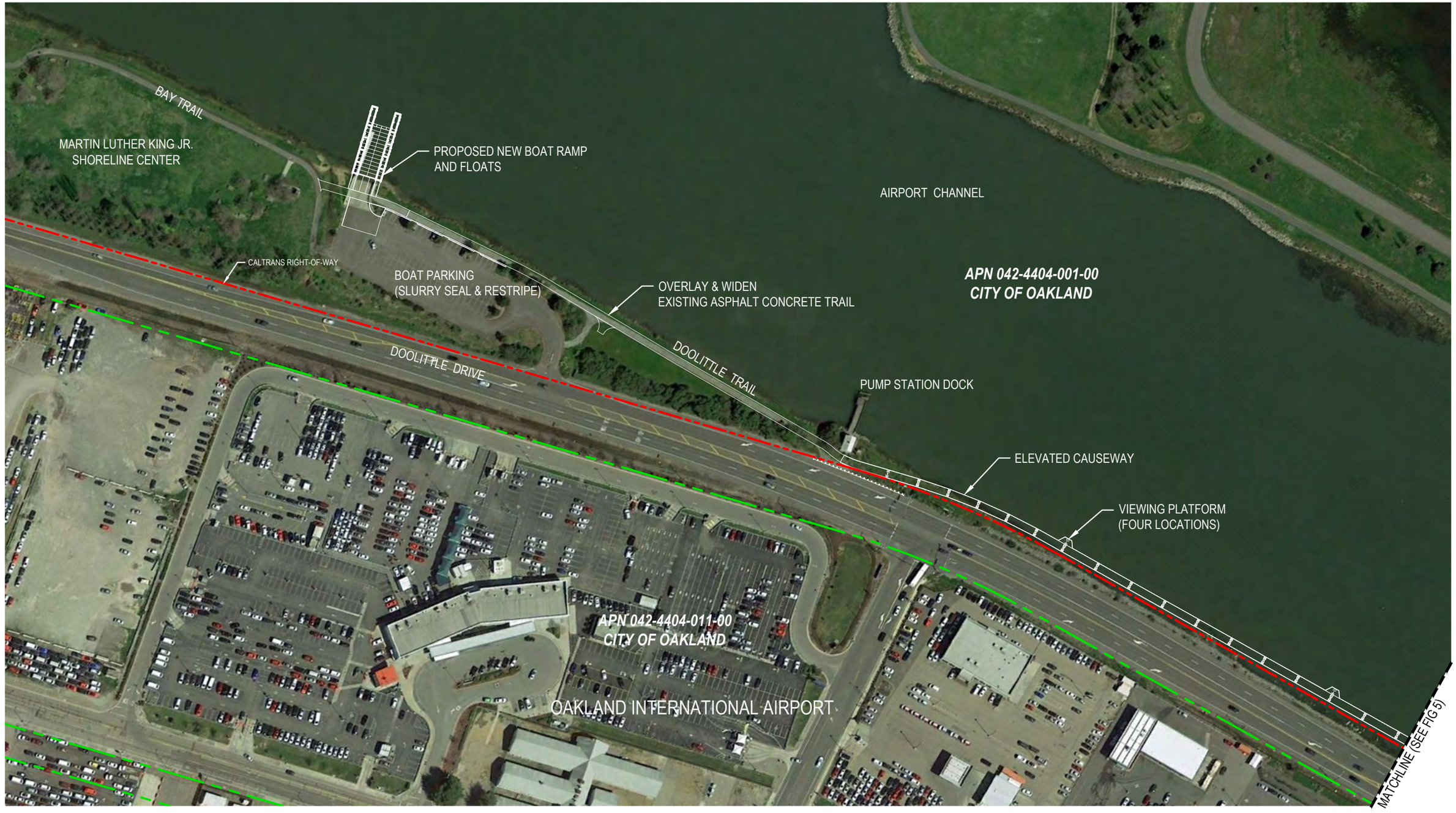
PLAN NORTH

East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
OVERALL PROJECT MAP

FIGURE 3



AUGUST 7, 2017
DESIGN REVIEW BOARD

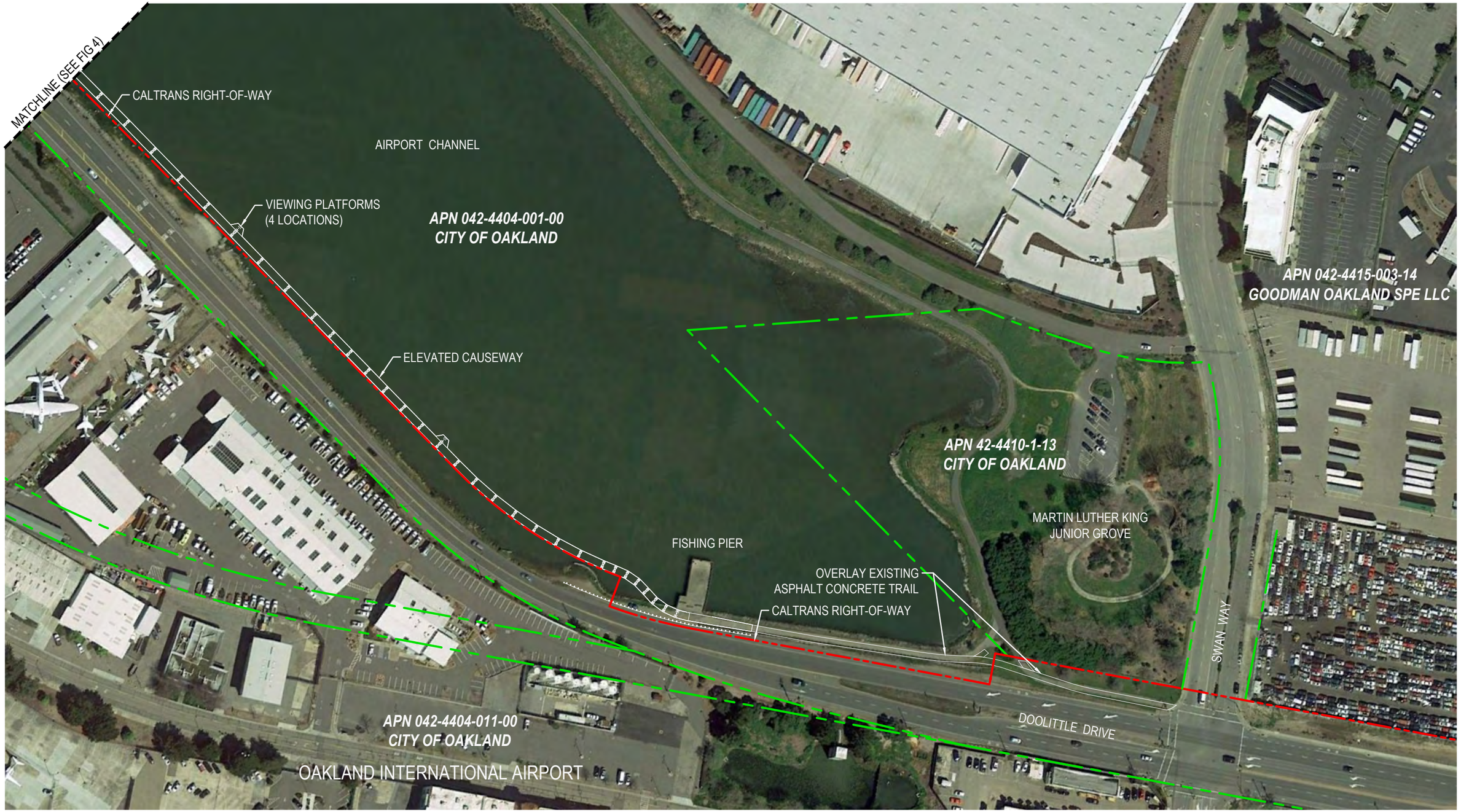
NOT TO SCALE

PLAN NORTH

East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
OWNERSHIP
NORTH SEGMENT
FIGURE 4



AUGUST 7, 2017
DESIGN REVIEW BOARD

NOT TO SCALE

PLAN NORTH

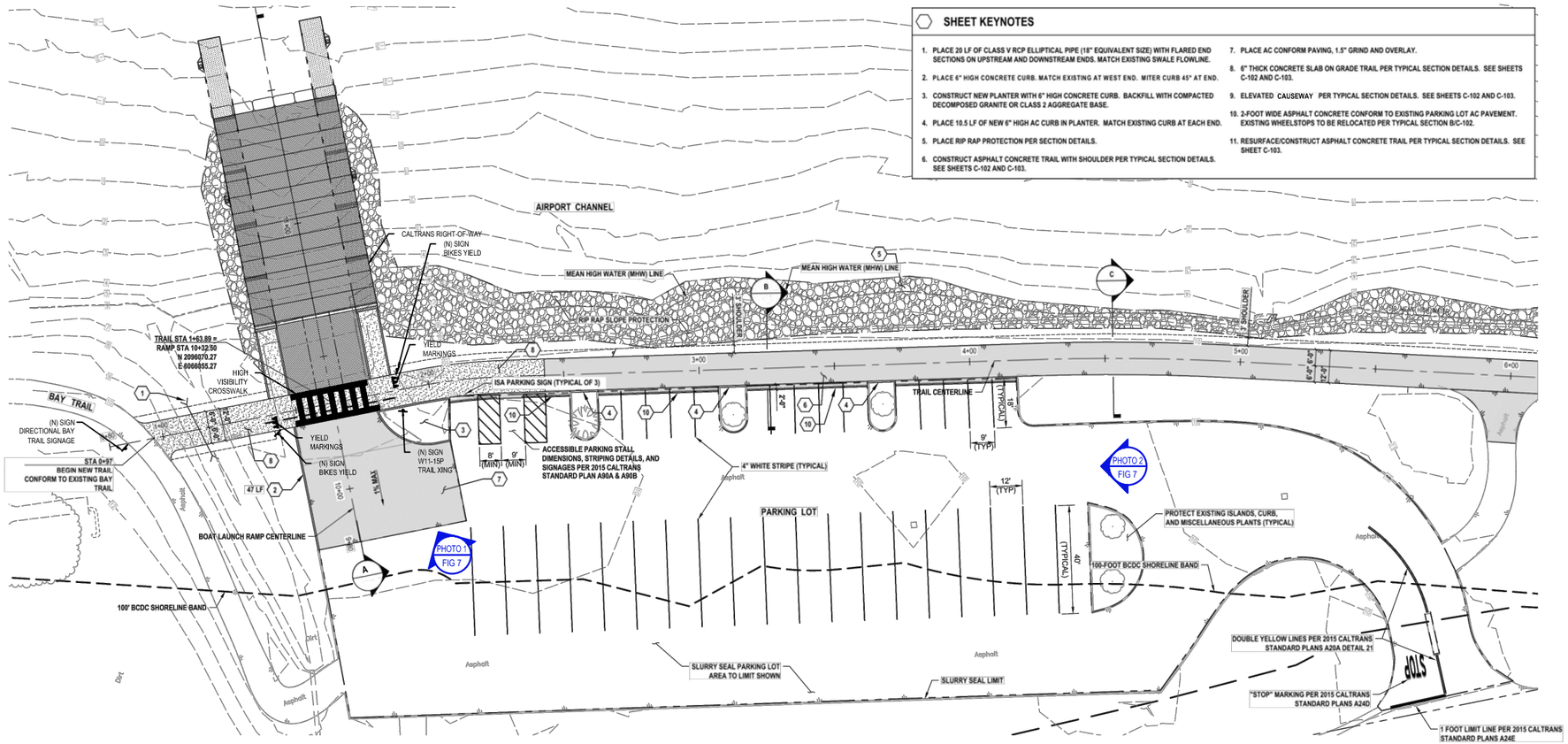
East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

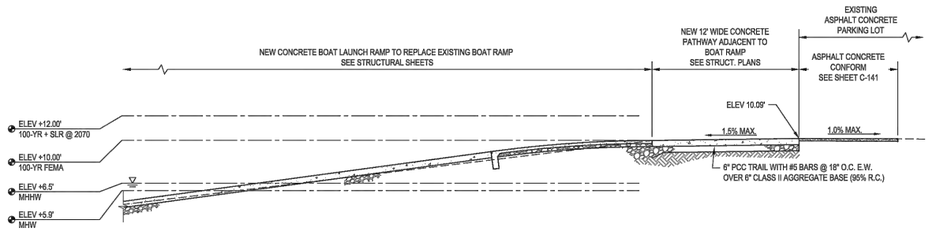
SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR.
REGIONAL SHORELINE
DOOLITTLE DRIVE
OWNERSHIP
SOUTH SEGMENT
FIGURE 5

SHEET KEYNOTES

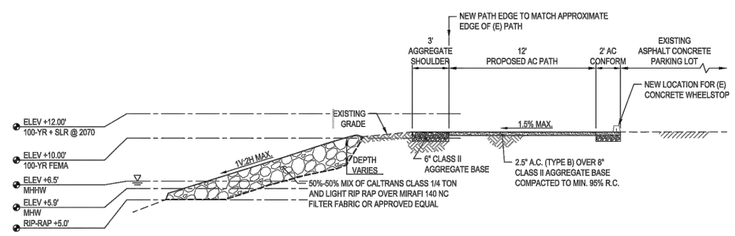
1. PLACE 20 LF OF CLASS V RCP ELLIPTICAL PIPE (18" EQUIVALENT SIZE) WITH FLARED END SECTIONS ON UPSTREAM AND DOWNSTREAM ENDS. MATCH EXISTING SWALE FLOWLINE.
2. PLACE 6" HIGH CONCRETE CURB. MATCH EXISTING AT WEST END. MITER CURB 45° AT END.
3. CONSTRUCT NEW PLANTER WITH 6" HIGH CONCRETE CURB. BACKFILL WITH COMPACTED DECOMPOSED GRANITE OR CLASS 2 AGGREGATE BASE.
4. PLACE 10.5 LF OF NEW 6" HIGH AC CURB IN PLANTER. MATCH EXISTING CURB AT EACH END.
5. PLACE RIP RAP PROTECTION PER SECTION DETAILS.
6. CONSTRUCT ASPHALT CONCRETE TRAIL WITH SHOULDER PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
7. PLACE AC CONFORM PAVING, 1.5" GRIND AND OVERLAY.
8. 6" THICK CONCRETE SLAB ON GRADE TRAIL PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
9. ELEVATED CAUSEWAY PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
10. 2-FOOT WIDE ASPHALT CONCRETE CONFORM TO EXISTING PARKING LOT AC PAVEMENT. EXISTING WHEELSTOPS TO BE RELOCATED PER TYPICAL SECTION B/C-102.
11. RESURFACE/CONSTRUCT ASPHALT CONCRETE TRAIL PER TYPICAL SECTION DETAILS. SEE SHEET C-103.



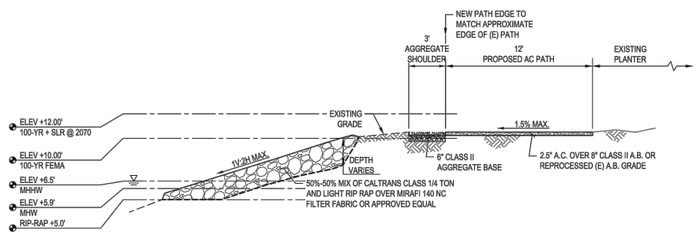
PLAN - BOAT RAMP AND PARKING LOT



A SECTION - BOAT RAMP



B SECTION - TRAIL AT PARKING LOT



C SECTION - TRAIL AT PARKING LOT

AUGUST 7, 2017
DESIGN REVIEW BOARD

East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
BOAT RAMP AND PARKING LOT
FIGURE 6

1 PHOTO - EXISTING BOAT RAMP

2 PHOTO - EXISTING PARKING LOT

AUGUST 7, 2017
DESIGN REVIEW BOARD

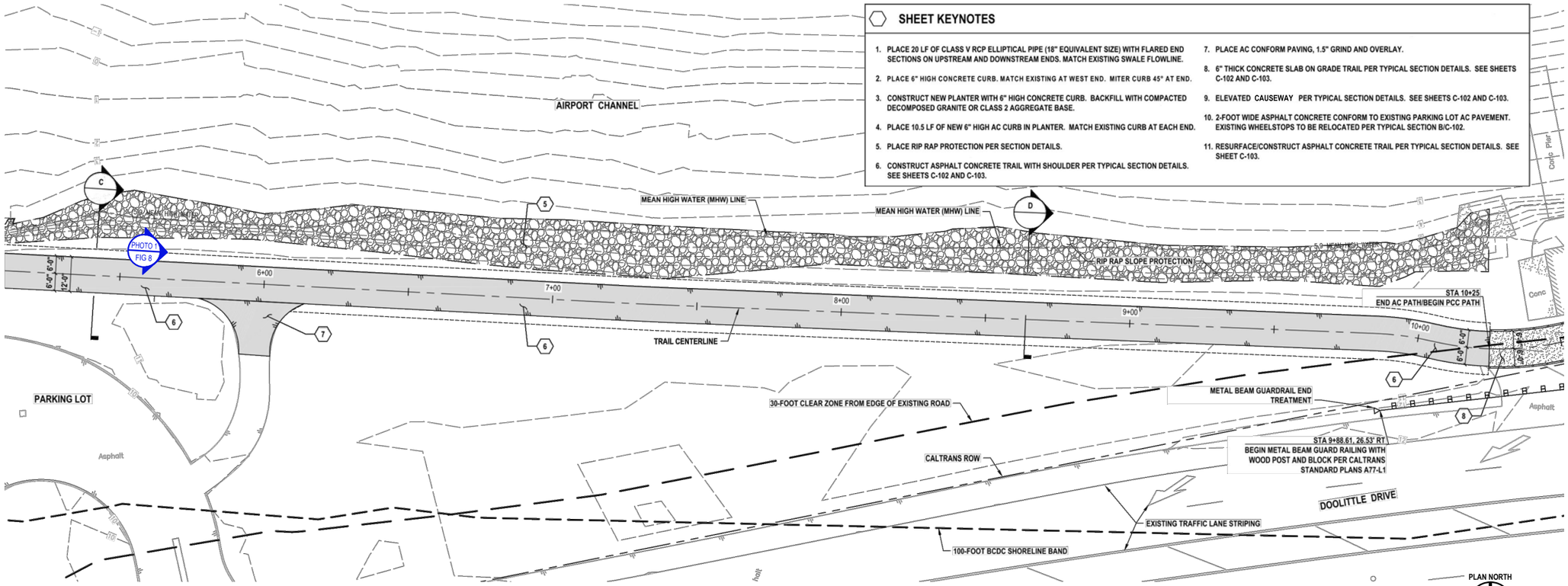
East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
EXISTING BOAT RAMP AND PARKING LOT
FIGURE 7

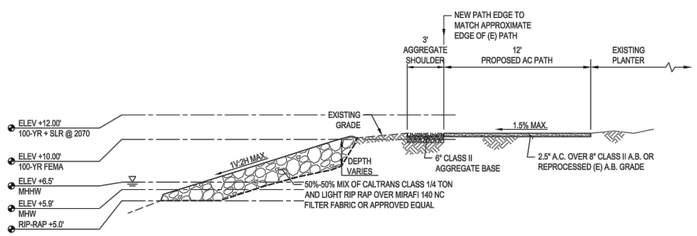
SHEET KEYNOTES

1. PLACE 20 LF OF CLASS V RCP ELLIPTICAL PIPE (18" EQUIVALENT SIZE) WITH FLARED END SECTIONS ON UPSTREAM AND DOWNSTREAM ENDS. MATCH EXISTING SWALE FLOWLINE.
2. PLACE 6" HIGH CONCRETE CURB. MATCH EXISTING AT WEST END. MITER CURB 45° AT END.
3. CONSTRUCT NEW PLANTER WITH 6" HIGH CONCRETE CURB. BACKFILL WITH COMPACTED DECOMPOSED GRANITE OR CLASS 2 AGGREGATE BASE.
4. PLACE 10.5 LF OF NEW 6" HIGH AC CURB IN PLANTER. MATCH EXISTING CURB AT EACH END.
5. PLACE RIP RAP PROTECTION PER SECTION DETAILS.
6. CONSTRUCT ASPHALT CONCRETE TRAIL WITH SHOULDER PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
7. PLACE AC CONFORM PAVING, 1.5" GRIND AND OVERLAY.
8. 6" THICK CONCRETE SLAB ON GRADE TRAIL PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
9. ELEVATED CAUSEWAY PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
10. 2-FOOT WIDE ASPHALT CONCRETE CONFORM TO EXISTING PARKING LOT AC PAVEMENT. EXISTING WHEELSTOPS TO BE RELOCATED PER TYPICAL SECTION B/C-102.
11. RESURFACE/CONSTRUCT ASPHALT CONCRETE TRAIL PER TYPICAL SECTION DETAILS. SEE SHEET C-103.

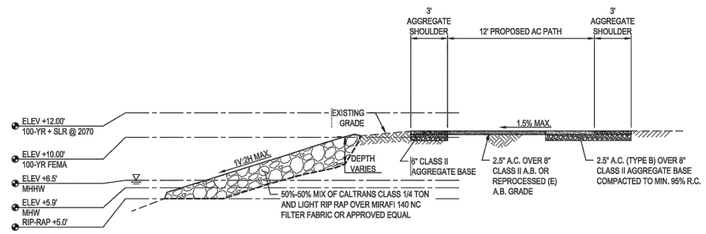


PLAN - TRAIL SEGMENT

1 PHOTO - EXISTING TRAIL



C SECTION - TRAIL AT PARKING LOT



D SECTION - TRAIL

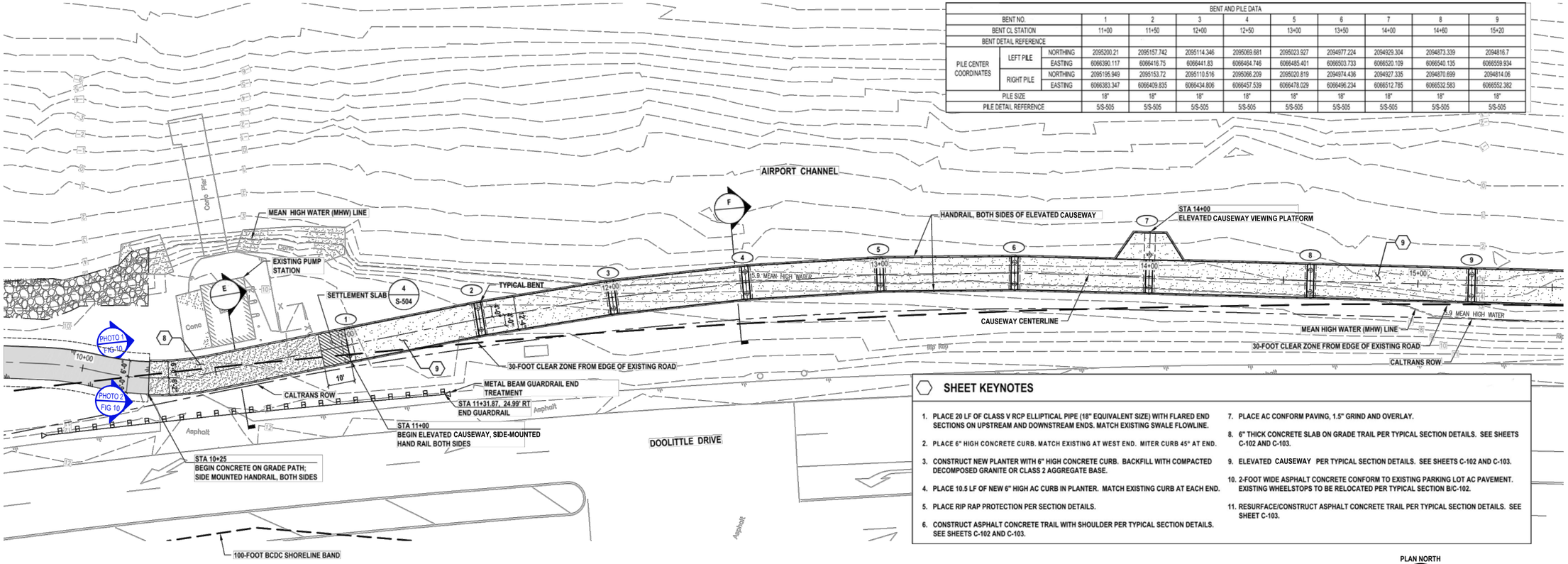
AUGUST 7, 2017
DESIGN REVIEW BOARD

East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
TRAIL SEGMENT

FIGURE 8



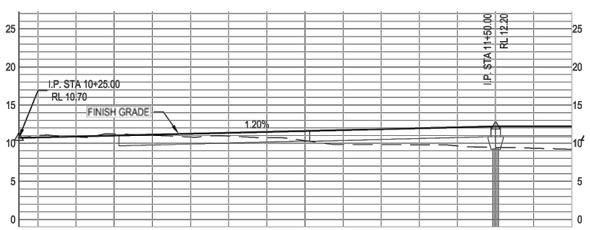
BENT AND PILE DATA											
BENT NO.			1	2	3	4	5	6	7	8	9
BENT CL STATION			11+00	11+50	12+00	12+50	13+00	13+50	14+00	14+60	15+20
BENT DETAIL REFERENCE											
PILE CENTER COORDINATES	LEFT PILE	NORTHING	2095200.21	2095157.742	2095114.346	2095069.681	2095023.927	2094977.224	2094929.304	2094873.339	2094816.7
		EASTING	6066390.117	6066416.75	6066441.83	6066464.746	6066485.401	6066503.733	6066520.109	6066540.135	6066559.934
	RIGHT PILE	NORTHING	2095195.949	2095153.72	2095110.516	2095066.209	2095020.819	2094974.436	2094927.335	2094870.699	2094814.06
		EASTING	6066383.347	6066409.835	6066434.806	6066457.539	6066478.029	6066496.234	6066512.785	6066532.583	6066552.382
PILE SIZE			18"	18"	18"	18"	18"	18"	18"	18"	18"
PILE DETAIL REFERENCE			5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505

SHEET KEYNOTES

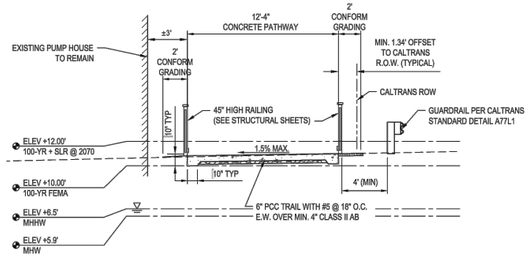
1. PLACE 20 LF OF CLASS V RCP ELLIPTICAL PIPE (18" EQUIVALENT SIZE) WITH FLARED END SECTIONS ON UPSTREAM AND DOWNSTREAM ENDS. MATCH EXISTING SWALE FLOWLINE.
2. PLACE 6" HIGH CONCRETE CURB. MATCH EXISTING AT WEST END. MITER CURB 45° AT END.
3. CONSTRUCT NEW PLANTER WITH 6" HIGH CONCRETE CURB. BACKFILL WITH COMPACTED DECOMPOSED GRANITE OR CLASS 2 AGGREGATE BASE.
4. PLACE 10.5 LF OF NEW 6" HIGH AC CURB IN PLANTER. MATCH EXISTING CURB AT EACH END.
5. PLACE RIP RAP PROTECTION PER SECTION DETAILS.
6. CONSTRUCT ASPHALT CONCRETE TRAIL WITH SHOULDER PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
7. PLACE AC CONFORM PAVING, 1.5" GRIND AND OVERLAY.
8. 6" THICK CONCRETE SLAB ON GRADE TRAIL PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
9. ELEVATED CAUSEWAY PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
10. 2-FOOT WIDE ASPHALT CONCRETE CONFORM TO EXISTING PARKING LOT AC PAVEMENT. EXISTING WHEELSTOPS TO BE RELOCATED PER TYPICAL SECTION B/C-102.
11. RESURFACE/CONSTRUCT ASPHALT CONCRETE TRAIL PER TYPICAL SECTION DETAILS. SEE SHEET C-103.

PLAN - CAUSEWAY SEGMENT

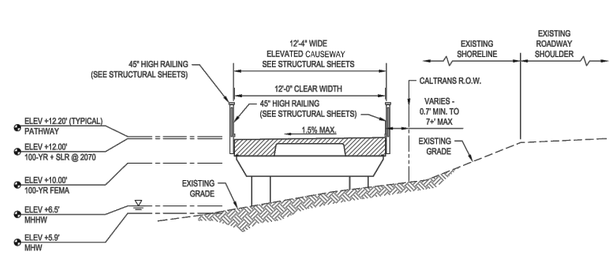
PLAN NORTH



PARTIAL PROFILE - CAUSEWAY STATION 10+25 TO 11+60



E SECTION - TRAIL AT PUMP HOUSE



F SECTION - CAUSEWAY

AUGUST 7, 2017
DESIGN REVIEW BOARD

East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 F 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
CAUSEWAY SEGMENT

FIGURE 9

1 PHOTO - EXISTING PUMP HOUSE

2 PHOTO - EXISTING TRAIL GAP

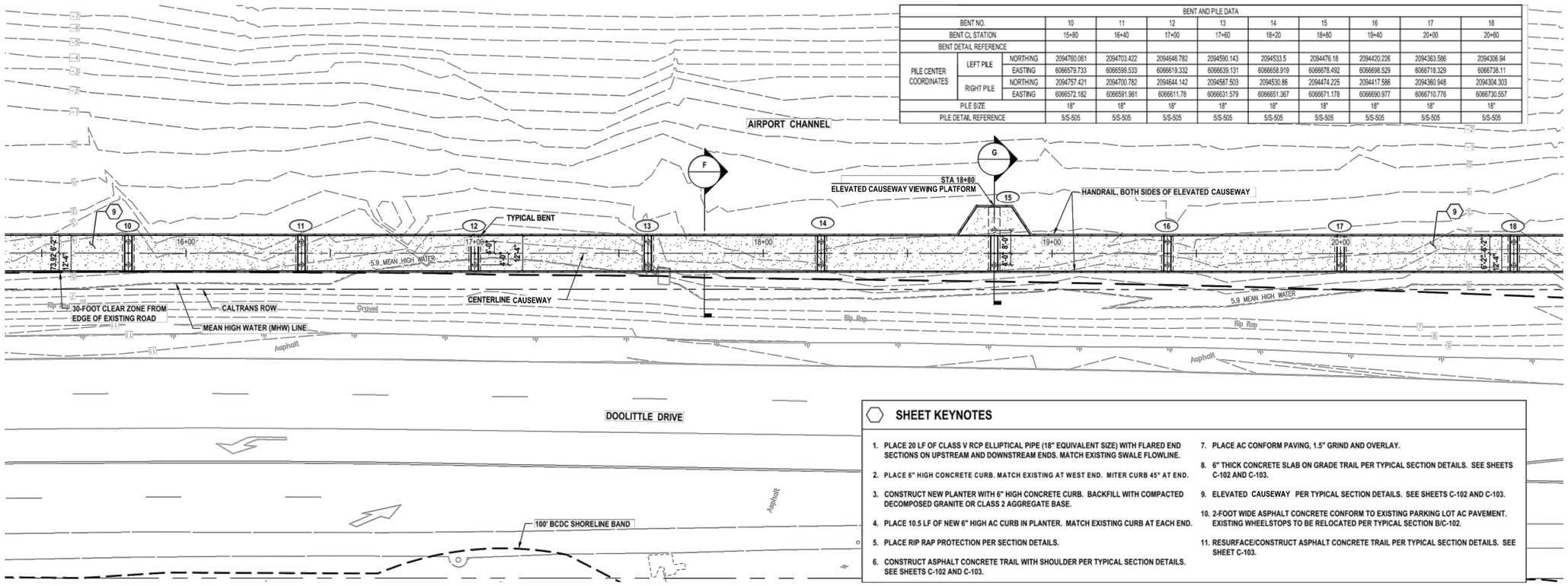
AUGUST 7, 2017
DESIGN REVIEW BOARD

East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
EXISTING PUMP HOUSE AND TRAIL GAP
FIGURE 10

BENT AND PILE DATA										
BENT NO.			10	11	12	13	14	15	16	17	18
BENT CL STATION			15+80	16+40	17+00	17+60	18+20	18+80	19+40	20+00	20+60
BENT DETAIL REFERENCE											
PILE CENTER COORDINATES	LEFT PILE	NORTHING	2094760.061	2094703.422	2094646.782	2094590.143	2094533.5	2094476.18	2094420.226	2094363.586	2094306.94
		EASTING	6066579.733	6066599.533	6066619.332	6066639.131	6066658.919	6066678.492	6066698.529	6066718.329	6066738.11
	RIGHT PILE	NORTHING	2094757.421	2094700.782	2094644.142	2094587.503	2094530.86	2094474.225	2094417.586	2094360.948	2094304.303
		EASTING	6066572.182	6066591.981	6066611.78	6066631.579	6066651.367	6066671.178	6066690.977	6066710.776	6066730.557
PILE SIZE			18"	18"	18"	18"	18"	18"	18"	18"	18"
PILE DETAIL REFERENCE			5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505

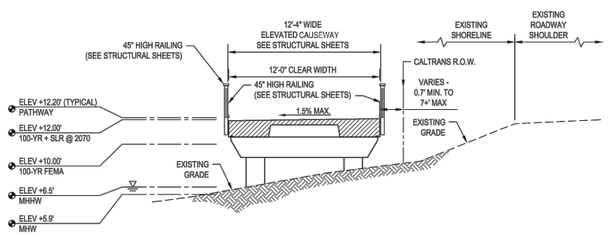


SHEET KEYNOTES

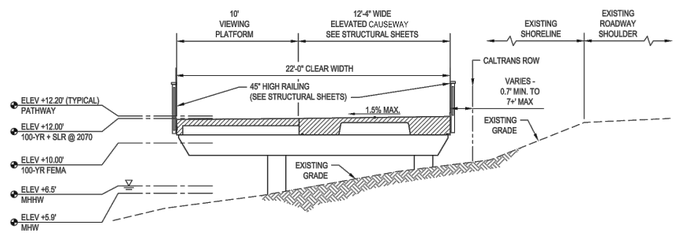
1. PLACE 20 LF OF CLASS V RCP ELLIPTICAL PIPE (18" EQUIVALENT SIZE) WITH FLARED END SECTIONS ON UPSTREAM AND DOWNSTREAM ENDS. MATCH EXISTING SWALE FLOWLINE.
2. PLACE 6" HIGH CONCRETE CURB. MATCH EXISTING AT WEST END. MITER CURB 45° AT END.
3. CONSTRUCT NEW PLANTER WITH 6" HIGH CONCRETE CURB. BACKFILL WITH COMPACTED DECOMPOSED GRANITE OR CLASS 2 AGGREGATE BASE.
4. PLACE 10.5 LF OF NEW 6" HIGH AC CURB IN PLANTER. MATCH EXISTING CURB AT EACH END.
5. PLACE RIP RAP PROTECTION PER SECTION DETAILS.
6. CONSTRUCT ASPHALT CONCRETE TRAIL WITH SHOULDER PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
7. PLACE AC CONFORM PAVING, 1.5" GRIND AND OVERLAY.
8. 6" THICK CONCRETE SLAB ON GRADE TRAIL PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
9. ELEVATED CAUSEWAY PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
10. 2-FOOT WIDE ASPHALT CONCRETE CONFORM TO EXISTING PARKING LOT AC PAVEMENT. EXISTING WHEELSTOPS TO BE RELOCATED PER TYPICAL SECTION B/C-102.
11. RESURFACE/CONSTRUCT ASPHALT CONCRETE TRAIL PER TYPICAL SECTION DETAILS. SEE SHEET C-103.

PLAN NORTH

PLAN - CAUSEWAY SEGMENT



F SECTION - CAUSEWAY



G SECTION - CAUSEWAY AT VIEWING PLATFORM

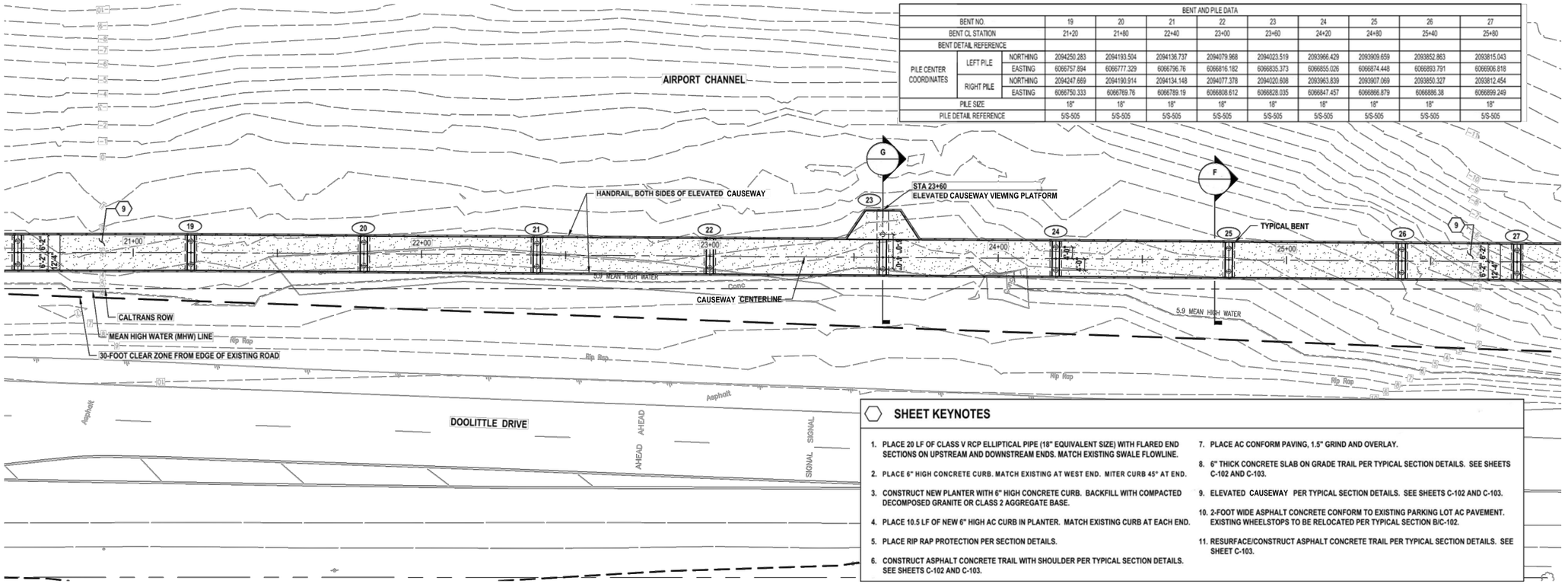
AUGUST 7, 2017
DESIGN REVIEW BOARD

East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
CAUSEWAY SEGMENT

FIGURE 11



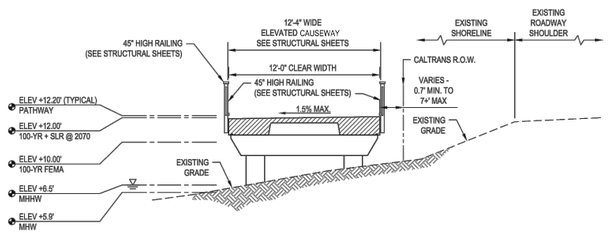
BENT AND PILE DATA										
BENT NO.			19	20	21	22	23	24	25	26	27
BENT CL STATION			21+20	21+80	22+40	23+00	23+60	24+20	24+80	25+40	25+80
BENT DETAIL REFERENCE											
PILE CENTER COORDINATES	LEFT PILE	NORTHING	2094250.283	2094193.504	2094136.737	2094079.968	2094023.519	2093966.429	2093909.659	2093852.863	2093815.043
		EASTING	6066757.894	6066777.329	6066796.76	6066816.182	6066835.373	6066855.026	6066874.448	6066893.791	6066906.818
	RIGHT PILE	NORTHING	2094247.669	2094190.914	2094134.148	2094077.378	2094020.608	2093963.839	2093907.069	2093850.327	2093812.454
		EASTING	6066750.333	6066769.76	6066789.19	6066808.612	6066828.035	6066847.457	6066866.879	6066886.38	6066899.249
PILE SIZE			18"	18"	18"	18"	18"	18"	18"	18"	18"
PILE DETAIL REFERENCE			5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505

SHEET KEYNOTES

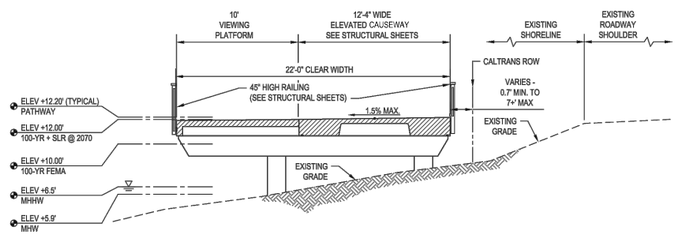
1. PLACE 20 LF OF CLASS V RCP ELLIPTICAL PIPE (18" EQUIVALENT SIZE) WITH FLARED END SECTIONS ON UPSTREAM AND DOWNSTREAM ENDS. MATCH EXISTING SWALE FLOWLINE.
2. PLACE 6" HIGH CONCRETE CURB. MATCH EXISTING AT WEST END. MITER CURB 45° AT END.
3. CONSTRUCT NEW PLANTER WITH 6" HIGH CONCRETE CURB. BACKFILL WITH COMPACTED DECOMPOSED GRANITE OR CLASS 2 AGGREGATE BASE.
4. PLACE 10.5 LF OF NEW 6" HIGH AC CURB IN PLANTER. MATCH EXISTING CURB AT EACH END.
5. PLACE RIP RAP PROTECTION PER SECTION DETAILS.
6. CONSTRUCT ASPHALT CONCRETE TRAIL WITH SHOULDER PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
7. PLACE AC CONFORM PAVING, 1.5" GRIND AND OVERLAY.
8. 6" THICK CONCRETE SLAB ON GRADE TRAIL PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
9. ELEVATED CAUSEWAY PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
10. 2-FOOT WIDE ASPHALT CONCRETE CONFORM TO EXISTING PARKING LOT AC PAVEMENT. EXISTING WHEELSTOPS TO BE RELOCATED PER TYPICAL SECTION B/C-102.
11. RESURFACE/CONSTRUCT ASPHALT CONCRETE TRAIL PER TYPICAL SECTION DETAILS. SEE SHEET C-103.

PLAN NORTH

PLAN - CAUSEWAY SEGMENT



F SECTION - CAUSEWAY



G SECTION - CAUSEWAY AT VIEWING PLATFORM

AUGUST 7, 2017
DESIGN REVIEW BOARD

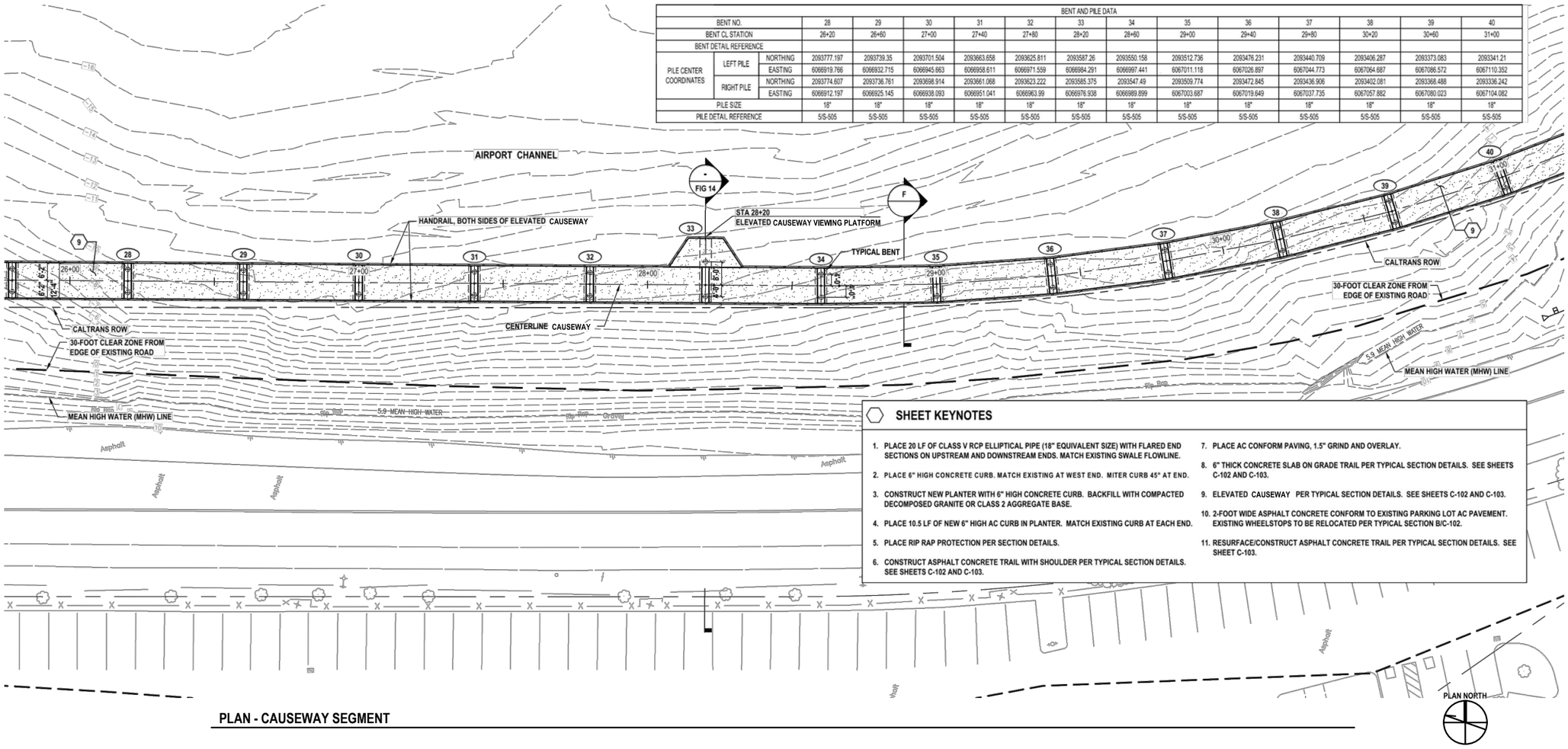
East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
CAUSEWAY SEGMENT

FIGURE 12

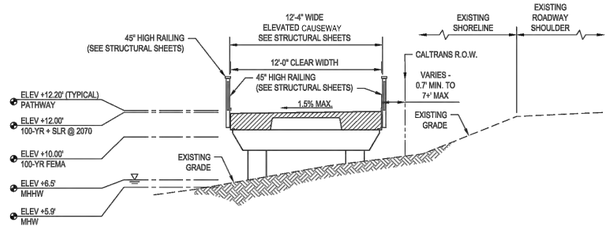
BENT AND PILE DATA															
BENT NO.			28	29	30	31	32	33	34	35	36	37	38	39	40
BENT CL STATION			26+20	26+60	27+00	27+40	27+80	28+20	28+60	29+00	29+40	29+80	30+20	30+60	31+00
BENT DETAIL REFERENCE															
PILE CENTER COORDINATES	LEFT PILE	NORTHING	2093777.197	2093739.35	2093701.504	2093663.658	2093625.811	2093587.26	2093550.158	2093512.736	2093476.231	2093440.709	2093406.287	2093373.083	2093341.21
		EASTING	6066919.766	6066932.715	6066945.663	6066958.611	6066971.559	6066984.291	6066997.441	6067011.118	6067026.897	6067044.773	6067064.687	6067086.572	6067110.352
	RIGHT PILE	NORTHING	2093774.607	2093736.761	2093698.914	2093661.068	2093623.222	2093585.375	2093547.49	2093509.774	2093472.845	2093436.906	2093402.081	2093368.488	2093336.242
		EASTING	6066912.197	6066925.145	6066938.093	6066951.041	6066963.99	6066976.938	6066989.899	6067003.687	6067019.649	6067037.735	6067057.882	6067080.023	6067104.082
PILE SIZE			18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"	18"
PILE DETAIL REFERENCE			5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505	5/S-505



SHEET KEYNOTES

1. PLACE 20 LF OF CLASS V RCP ELLIPTICAL PIPE (18" EQUIVALENT SIZE) WITH FLARED END SECTIONS ON UPSTREAM AND DOWNSTREAM ENDS. MATCH EXISTING SWALE FLOWLINE.
2. PLACE 6" HIGH CONCRETE CURB. MATCH EXISTING AT WEST END. MITER CURB 45° AT END.
3. CONSTRUCT NEW PLANTER WITH 6" HIGH CONCRETE CURB. BACKFILL WITH COMPACTED DECOMPOSED GRANITE OR CLASS 2 AGGREGATE BASE.
4. PLACE 10.5 LF OF NEW 6" HIGH AC CURB IN PLANTER. MATCH EXISTING CURB AT EACH END.
5. PLACE RIP RAP PROTECTION PER SECTION DETAILS.
6. CONSTRUCT ASPHALT CONCRETE TRAIL WITH SHOULDER PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
7. PLACE AC CONFORM PAVING, 1.5" GRIND AND OVERLAY.
8. 6" THICK CONCRETE SLAB ON GRADE TRAIL PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
9. ELEVATED CAUSEWAY PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
10. 2-FOOT WIDE ASPHALT CONCRETE CONFORM TO EXISTING PARKING LOT AC PAVEMENT. EXISTING WHEELSTOPS TO BE RELOCATED PER TYPICAL SECTION B/C-102.
11. RESURFACE/CONSTRUCT ASPHALT CONCRETE TRAIL PER TYPICAL SECTION DETAILS. SEE SHEET C-103.

PLAN - CAUSEWAY SEGMENT



F SECTION - CAUSEWAY

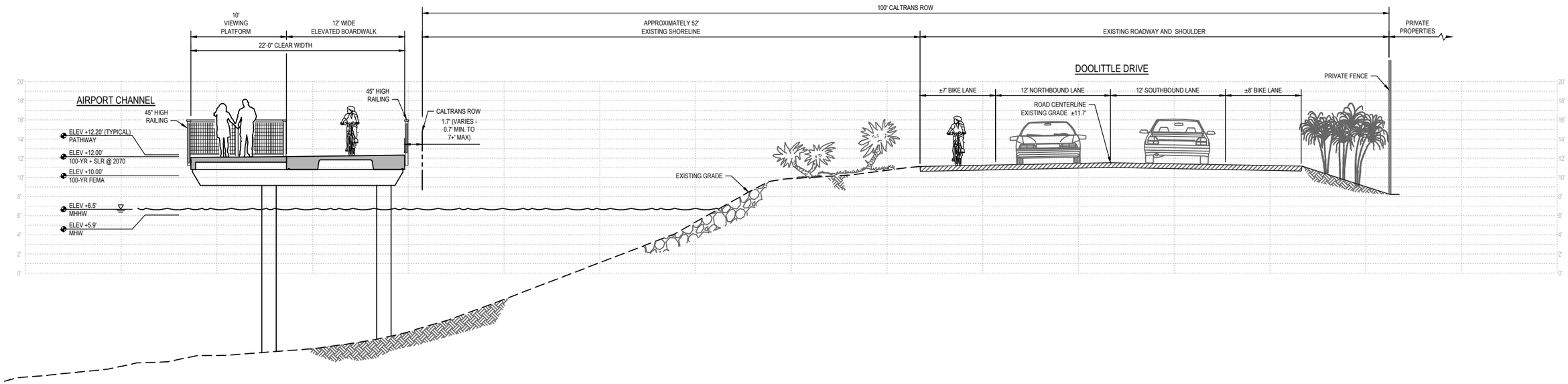
AUGUST 7, 2017
DESIGN REVIEW BOARD

East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
CAUSEWAY SEGMENT

FIGURE 13



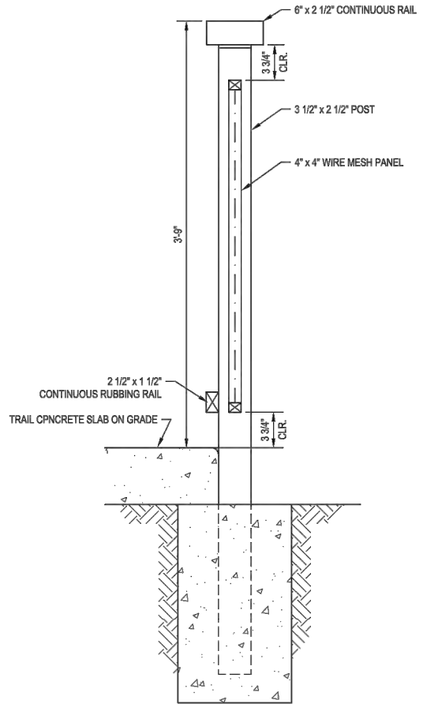
AUGUST 7, 2017
DESIGN REVIEW BOARD

East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

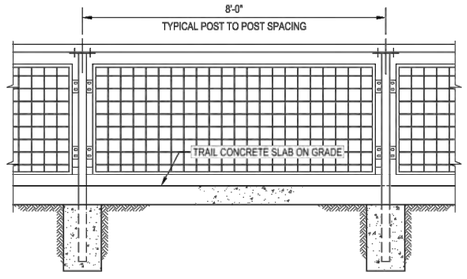
GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
CROSS SECTION

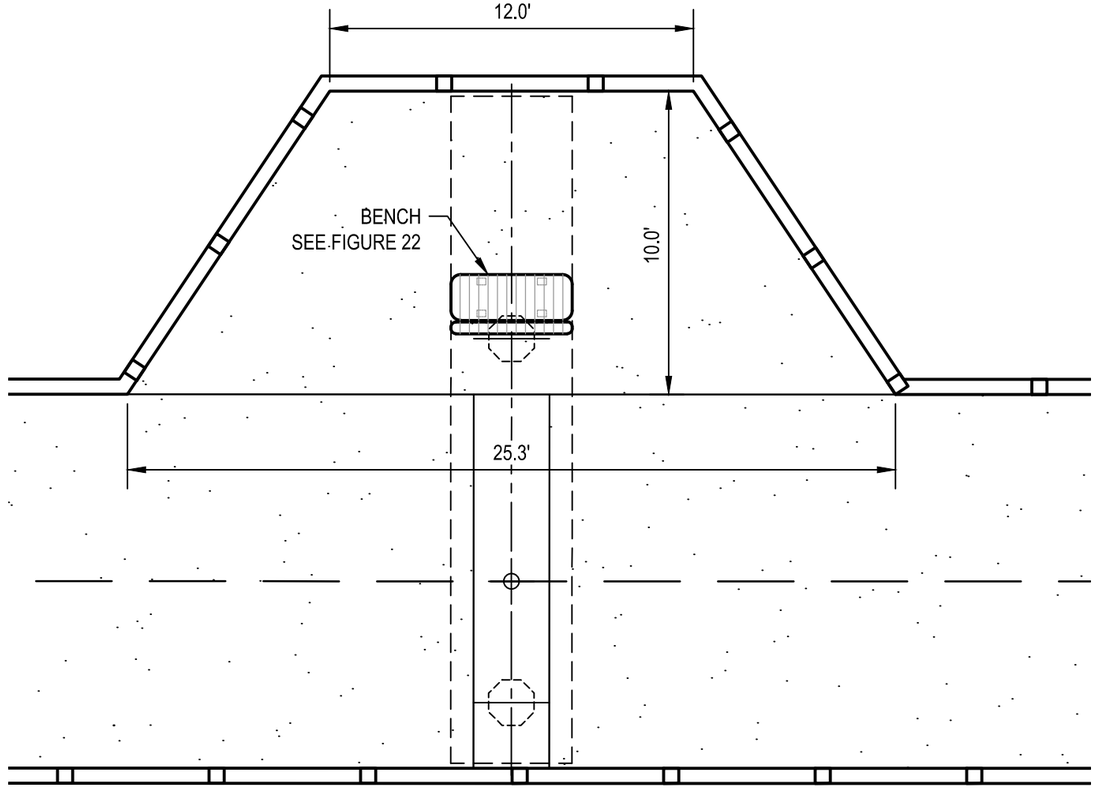
FIGURE 14



1 TRAIL RAILING SECTION



2 TRAIL RAILING ELVATION



3 TYPICAL DETAIL OF VIEWING PLATFORM

AUGUST 7, 2017
DESIGN REVIEW BOARD

East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

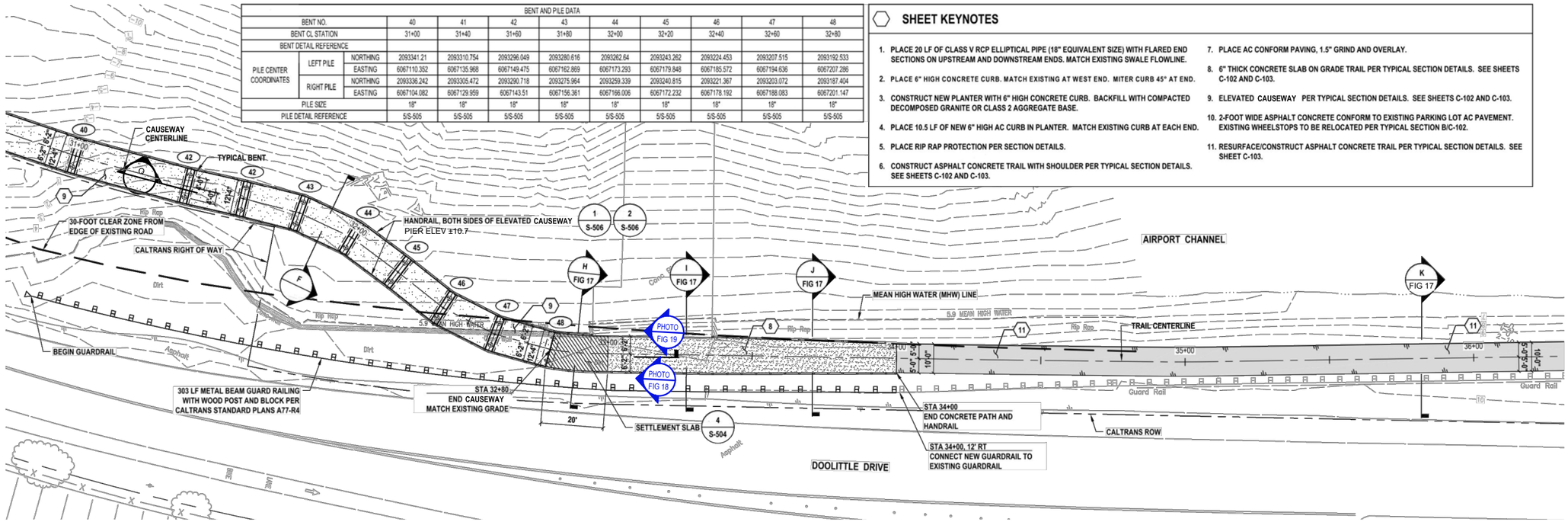
SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
VIEWING PLATFORM

FIGURE 15

BENT AND PILE DATA											
BENT NO.			40	41	42	43	44	45	46	47	48
BENT CL STATION			31+00	31+40	31+60	31+80	32+00	32+20	32+40	32+60	32+80
BENT DETAIL REFERENCE											
PILE CENTER COORDINATES	LEFT PILE	NORTHING	2093341.21	2093310.754	2093296.049	2093280.616	2093262.64	2093243.262	2093224.453	2093207.515	2093192.533
		EASTING	6067110.352	6067135.968	6067149.475	6067162.869	6067173.293	6067179.848	6067185.572	6067194.636	6067207.286
	RIGHT PILE	NORTHING	2093336.242	2093305.472	2093290.718	2093275.964	2093259.339	2093240.815	2093221.367	2093203.072	2093187.404
		EASTING	6067104.082	6067129.959	6067143.51	6067156.361	6067166.006	6067172.232	6067178.192	6067188.083	6067201.147
PILE SIZE			18"	18"	18"	18"	18"	18"	18"	18"	18"
PILE DETAIL REFERENCE			S/S-505	S/S-505	S/S-505	S/S-505	S/S-505	S/S-505	S/S-505	S/S-505	S/S-505

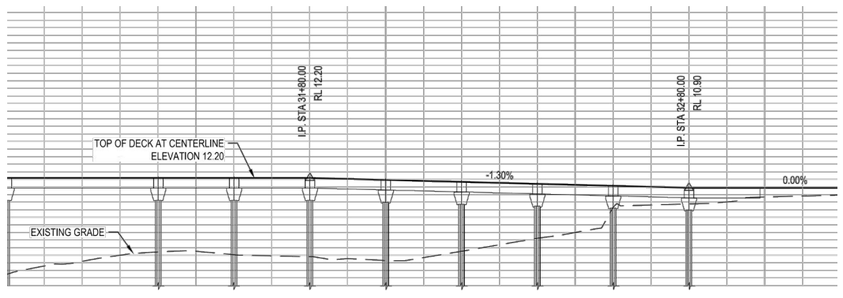
SHEET KEYNOTES

1. PLACE 20 LF OF CLASS V RCP ELLIPTICAL PIPE (18" EQUIVALENT SIZE) WITH FLARED END SECTIONS ON UPSTREAM AND DOWNSTREAM ENDS. MATCH EXISTING SWALE FLOWLINE.
2. PLACE 6" HIGH CONCRETE CURB. MATCH EXISTING AT WEST END. MITER CURB 45° AT END.
3. CONSTRUCT NEW PLANTER WITH 6" HIGH CONCRETE CURB. BACKFILL WITH COMPACTED DECOMPOSED GRANITE OR CLASS 2 AGGREGATE BASE.
4. PLACE 10.5 LF OF NEW 6" HIGH AC CURB IN PLANTER. MATCH EXISTING CURB AT EACH END.
5. PLACE RIP RAP PROTECTION PER SECTION DETAILS.
6. CONSTRUCT ASPHALT CONCRETE TRAIL WITH SHOULDER PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
7. PLACE AC CONFORM PAVING, 1.5" GRIND AND OVERLAY.
8. 6" THICK CONCRETE SLAB ON GRADE TRAIL PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
9. ELEVATED CAUSEWAY PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
10. 2-FOOT WIDE ASPHALT CONCRETE CONFORM TO EXISTING PARKING LOT AC PAVEMENT. EXISTING WHEELSTOPS TO BE RELOCATED PER TYPICAL SECTION B/C-102.
11. RESURFACE/CONSTRUCT ASPHALT CONCRETE TRAIL PER TYPICAL SECTION DETAILS. SEE SHEET C-103.

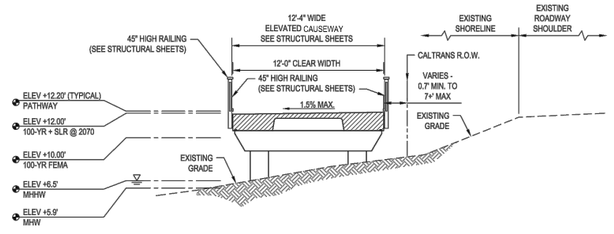


PLAN - CAUSEWAY SEGMENT

PLAN NORTH



- PARTIAL PROFILE - CAUSEWAY STA 31+00 TO 33+40



F SECTION - CAUSEWAY

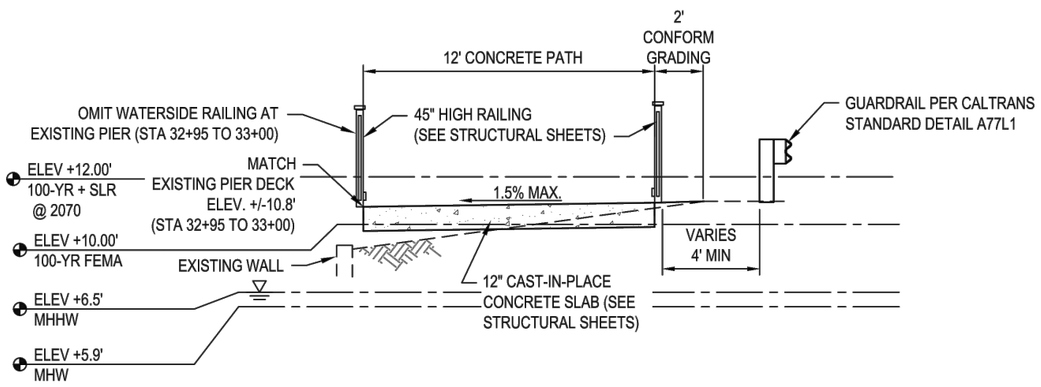
AUGUST 7, 2017
DESIGN REVIEW BOARD

East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

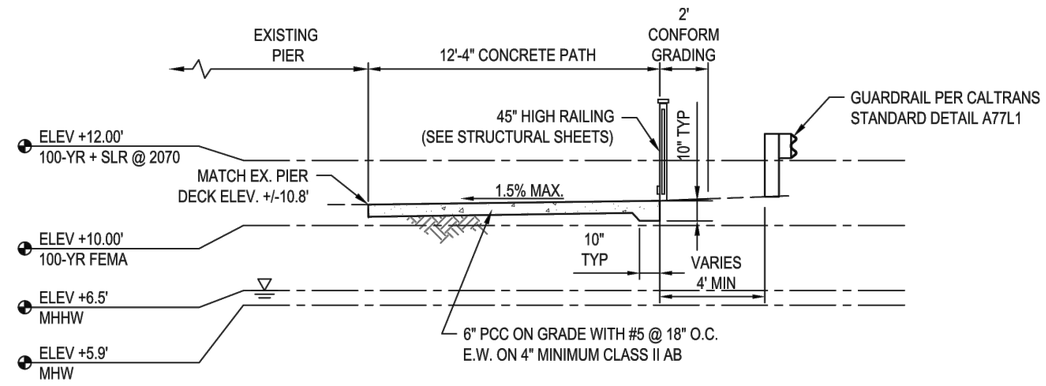
GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
CAUSEWAY SEGMENT

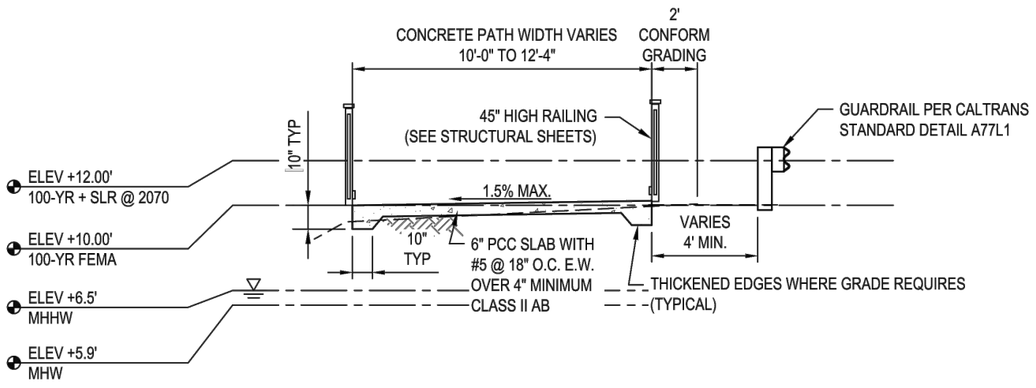
FIGURE 16



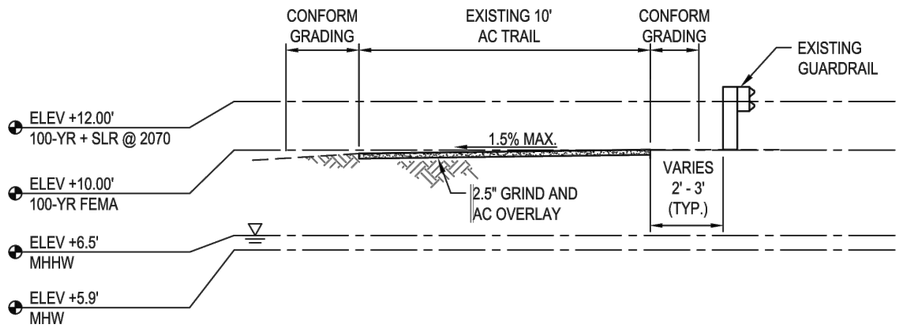
H **TYPICAL SECTION AT STA 32+80 TO STA 33+00**



I **TYPICAL SECTION AT STA 33+00 TO 33+36**



J **TYPICAL SECTION AT STA 33+36 TO 34+00**



K **TYPICAL SECTION AT NEW TRAIL STA 34+00 TO STA 36+75 AND 39+25 TO END**

AUGUST 7, 2017
DESIGN REVIEW BOARD

East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR.
REGIONAL SHORELINE
DOOLITTLE DRIVE
SECTIONS

FIGURE 17

AUGUST 7, 2017
DESIGN REVIEW BOARD

East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
EXISTING SHORELINE

FIGURE 18

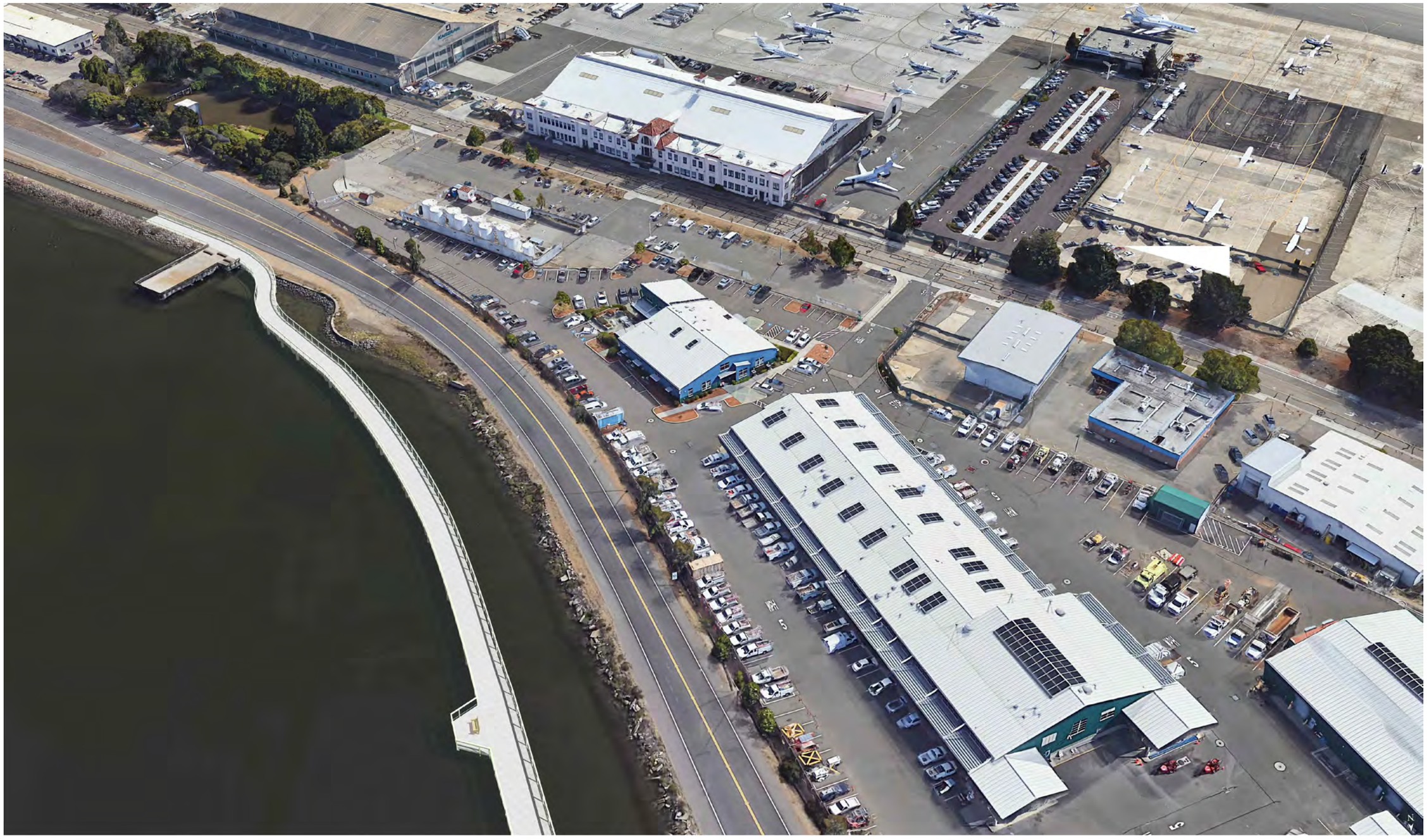
AUGUST 7, 2017
DESIGN REVIEW BOARD

East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
CAUSEWAY RENDERING

FIGURE 19

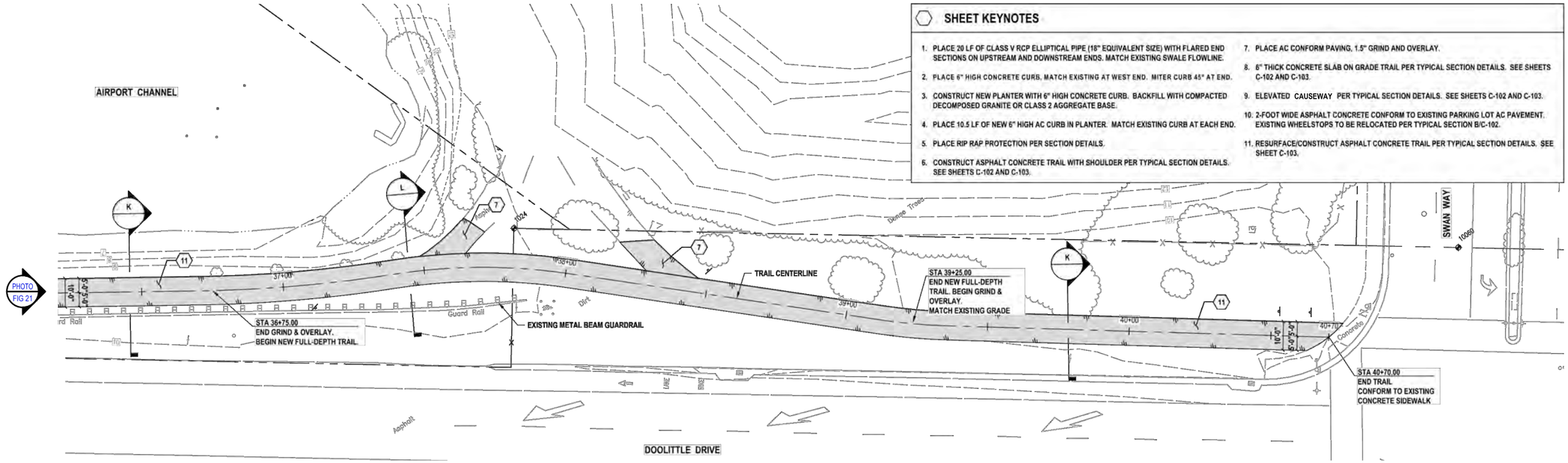


AUGUST 7, 2017
DESIGN REVIEW BOARD

East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

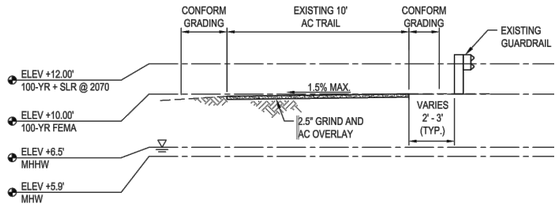
GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
CAUSEWAY RENDERING
AERIAL VIEW
FIGURE 20

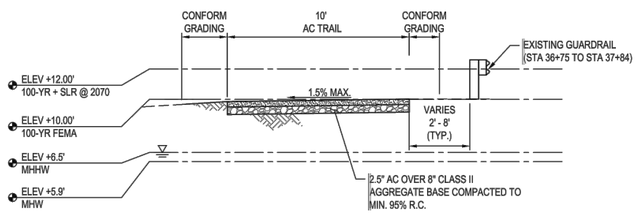


SHEET KEYNOTES

1. PLACE 20 LF OF CLASS V RCP ELLIPTICAL PIPE (18" EQUIVALENT SIZE) WITH FLARED END SECTIONS ON UPSTREAM AND DOWNSTREAM ENDS. MATCH EXISTING SWALE FLOWLINE.
2. PLACE 6" HIGH CONCRETE CURB, MATCH EXISTING AT WEST END. MITER CURB 45° AT END.
3. CONSTRUCT NEW PLANTER WITH 6" HIGH CONCRETE CURB. BACKFILL WITH COMPACTED DECOMPOSED GRANITE OR CLASS 2 AGGREGATE BASE.
4. PLACE 10.5 LF OF NEW 6" HIGH AC CURB IN PLANTER. MATCH EXISTING CURB AT EACH END.
5. PLACE RIP RAP PROTECTION PER SECTION DETAILS.
6. CONSTRUCT ASPHALT CONCRETE TRAIL WITH SHOULDER PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
7. PLACE AC CONFORM PAVING, 1.5" GRIND AND OVERLAY.
8. 6" THICK CONCRETE SLAB ON GRADE TRAIL PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
9. ELEVATED CAUSEWAY PER TYPICAL SECTION DETAILS. SEE SHEETS C-102 AND C-103.
10. 2-FOOT WIDE ASPHALT CONCRETE CONFORM TO EXISTING PARKING LOT AC PAVEMENT. EXISTING WHEELSTOPS TO BE RELOCATED PER TYPICAL SECTION B/C-102.
11. RESURFACE/CONSTRUCT ASPHALT CONCRETE TRAIL PER TYPICAL SECTION DETAILS. SEE SHEET C-103.



K TYPICAL SECTION AT STA 34+00 TO STA 36+75 AND 39+25 TO END



L TYPICAL SECTION AT NEW TRAIL STA 36+75 TO STA 39+25

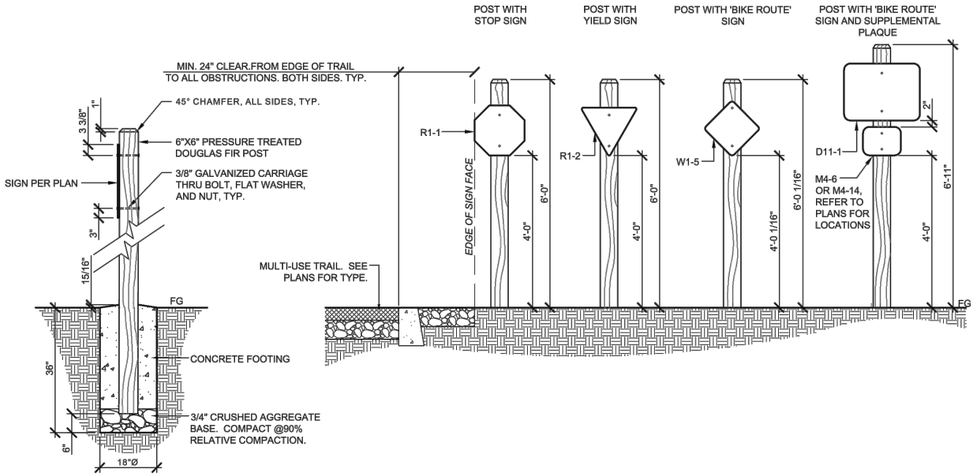
AUGUST 7, 2017
DESIGN REVIEW BOARD

East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

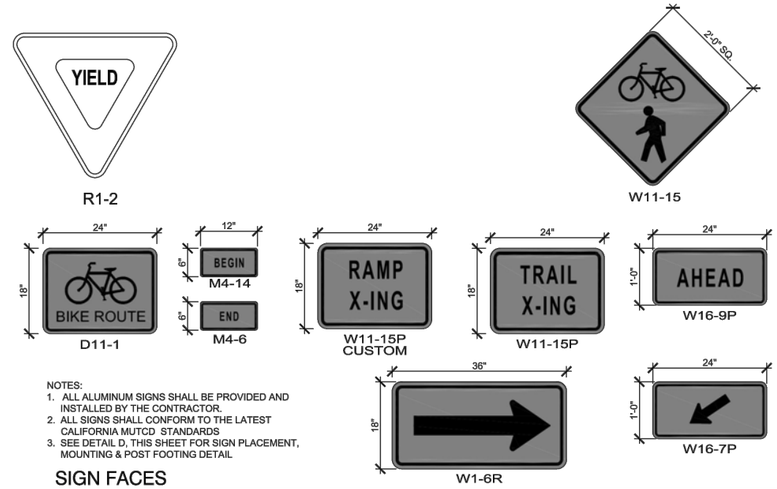
GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
SOUTH TRAIL SEGMENT

FIGURE 21



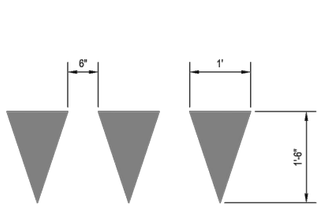
SIGN POSTS AND MOUNTING



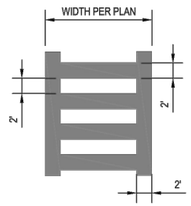
NOTES:
1. ALL ALUMINUM SIGNS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
2. ALL SIGNS SHALL CONFORM TO THE LATEST CALIFORNIA MUTCD STANDARDS
3. SEE DETAIL D, THIS SHEET FOR SIGN PLACEMENT, MOUNTING & POST FOOTING DETAIL

SIGN FACES

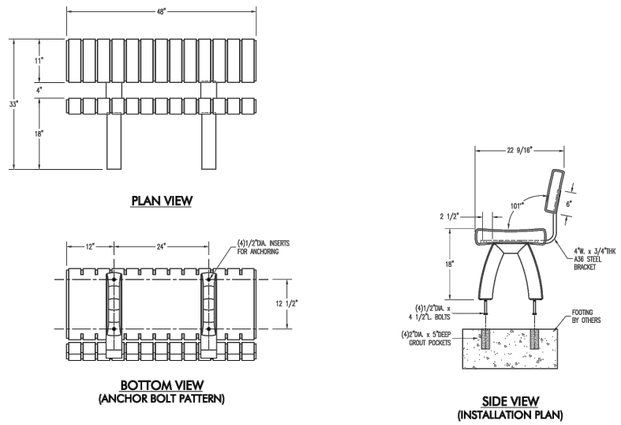
DIRECTIONAL BAY TRAIL SIGNAGE



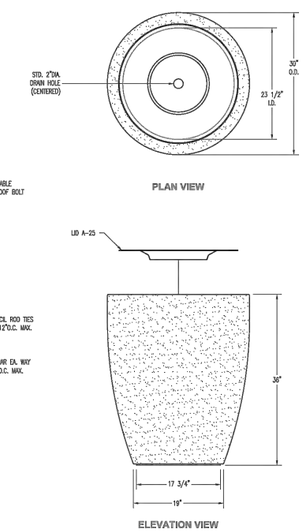
YIELD MARKINGS



HIGH VISIBILITY CROSSWALK



BENCH DETAIL



TRASH RECEPTACLE DETAIL

AUGUST 7, 2017
DESIGN REVIEW BOARD

East Bay Regional Park District
2950 PERALTA OAKS COURT, OAKLAND, CA 94605
WWW.EBPARKS.ORG 888-327-2757

GHD Inc.
3831 North Freeway Blvd Suite 220 Sacramento California 95834 USA
T 1 916 372 6606 **F** 1 916 372 6616
W www.ghd.com

SAN FRANCISCO BAY TRAIL
MARTIN LUTHER KING, JR. REGIONAL SHORELINE
DOOLITTLE DRIVE
STRIPING, SIGINAGE, AND FURNISHINGS
FIGURE 22