DELTA
CONVEYANCE
DESIGN &
CONSTRUCTION
AUTHORITY

VOLUME 2 OF 3

ENGINEERING CONCEPT DRAWINGS

FINAL DRAFT **Engineering Project Report**

CENTRAL AND EASTERN OPTIONS

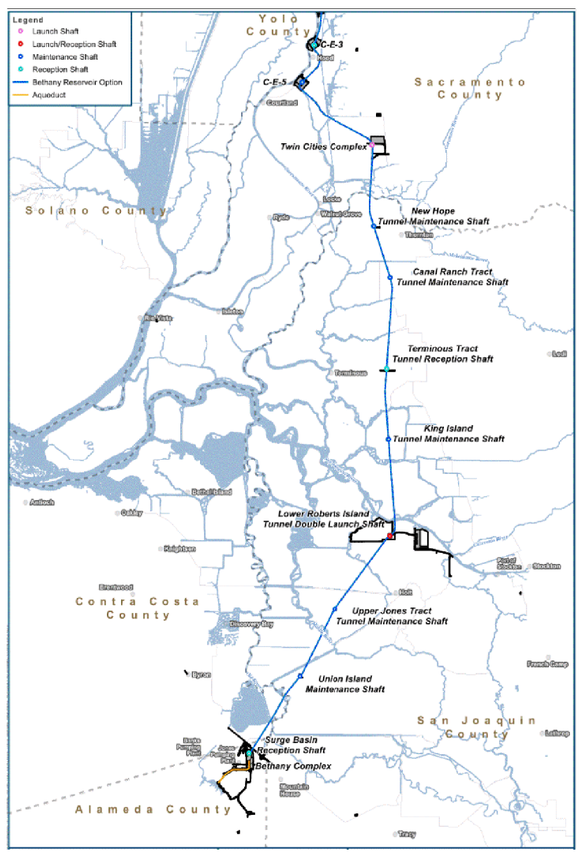
December 2021

WWW.DCDCA.ORG | WWW.WATER.CA.GOV/DELTACONVEYANCE

STATE OF CALIFORNIA

CALIFORNIA NATURAL RESOURCES AGENCY

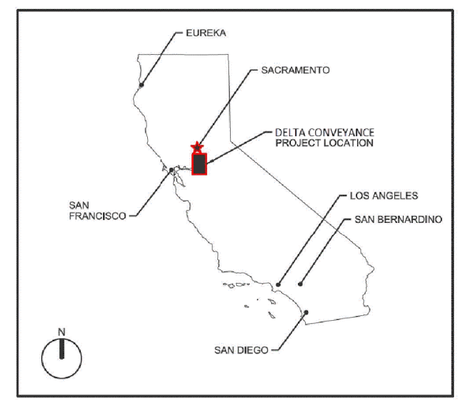
DEPARTMENT OF WATER RESOURCES



DELTA CONVEYANCE PROJECT

FINAL DRAFT ENGINEERING PROJECT REPORT
CENTRAL AND EASTERN OPTIONS TO THE PROPOSED PROJECT
VOLUME 2 OF 3
ENGINEERING CONCEPT DRAWINGS

DECEMBER 2021



LOCATION MAP

NOTES:

1. ENGINEERING DRAWINGS DO NOT REPRESENT A DETAILED ENGINEERING DESIGN EFFORT. INFORMATION SHOWN HAS BEEN LAID OUT USING AVAILABLE RESOURES TO CONVEY DESIGN INTENT. FACILITY LOCATIONS AND INDICATED DIMENSIONS, STATIONS, AND ELEVATIONS ARE APPROXIMATE AND SUBJECT TO CHANGE DURING SUBSEQUENT ENGINEERING EFFORTS.
2. TOPOGRAPHIC AND BATHYMETRIC INFORMATION USED IN THE DEVELOPMENT OF THESE DRAWINGS HAVE NOT BEEN GROUND PROOFED AND ARE APPROXIMATE.
3. HORIZONTAL DATUM IS CALIFORNIA STATE PLANE E, ZONE 3, NORTH AMERICAN DATUM OF 1983 (NAD 83), SURVEY FEET.
4. ALL ELEVATIONS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) UNLESS OTHERWISE SHOWN.
5. TOPOGRAPHY DATA IS BASED ON DIGITAL ELEVATION MODEL (DEM) OF THE SACRAMENTO-SAN JOAQUIN DELTA DERIVED FROM LIDAR (2017) DATA IS FOR CONCEPTUAL REPORT USE ONLY.

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED | APPROVAL RECOMMENDED
DRAWN | APPROVAL BY
CHECKED

DCA DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - CENTRAL AND EASTERN CORRIDORS

COVER SHEET

PROJECT NO. W8X97000
SHEET NO. STX-G-0001GN
REV | SEQUENCE NO.

STX-G-0001GN_W8X97000.dgn

PLOT DATE:2021\11\15 PLOT TIME:7:54:26 AM

SHEET	DRAWING	TITLE
		VOLUME 2 OF 3
		GENERAL - COMMON
1	**STX-G-0001GN**	COVER SHEET
2	**STX-G-0010GN**	INDEX TO DRAWINGS 1
3	**STX-G-0011GN**	INDEX TO DRAWINGS 2
4	**STX-G-0020GN**	ABBV AND SHEET NUMBER KEY
5	**STX-G-0070GN**	OVERALL PROCESS FLOW DIAGRAM
6	**STX-G-0075GN**	OVERALL PROCESS FLOW DIAGRAM CYLINDRICAL TEE SCREENS
7	**STX-G-0090GN**	SOUTHERN COMPLEX IMPACT AREA LIMITS
8	**STX-G-0100GN**	SOUTHERN COMPLEX POST-CONSTRUCTION SITE PLAN
9	**STX-E-0030GN**	COMMUNICATION DIAGRAM
		GENERAL - CENTRAL
10	**STC-G-0040GN**	PROJECT SCHEMATIC
11	**STC-G-0050GN**	CONVEYANCE OVERVIEW - OPTION 1 6,000 CFS AT INTAKES C-E-3 AND C-E-5
12	**STC-G-0051GN**	CONVEYANCE OVERVIEW - OPTION 5 3,000 CFS AT INTAKE C-E-5
13	**STC-G-0052GN**	CONVEYANCE OVERVIEW - OPTION 7 4,500 CFS AT INTAKES C-E-3 AND C-E-5
14	**STC-G-0053GN**	CONVEYANCE OVERVIEW - OPTION 9 7,500 CFS AT INTAKES C-E-2, C-E-3, AND C-E-5
15	**STC-G-0080GN**	OVERALL HYDRAULIC PLAN AND PROFILE
		GENERAL - EASTERN
16	**STE-G-0040GN**	PROJECT SCHEMATIC
17	**STE-G-0050GN**	CONVEYANCE OVERVIEW - OPTION 2 6,000 CFS AT INTAKES C-E-3 AND C-E-5
18	**STE-G-0051GN**	CONVEYANCE OVERVIEW - OPTION 6 3,000 CFS AT INTAKE C-E-5
19	**STE-G-0052GN**	CONVEYANCE OVERVIEW - OPTION 8 4,500 CFS AT INTAKES C-E-3 AND C-E-5
20	**STE-G-0053GN**	CONVEYANCE OVERVIEW - OPTION 10 7,500 CFS AT INTAKES C-E-2, C-E-3, AND C-E-5
21	**STE-G-0080GN**	OVERALL HYDRAULIC PLAN AND PROFILE
		INTAKES - COMMON
22	**STX-C-0005IT**	INTAKES PROJECT OVERVIEW AND KEY MAP
23	**STX-C-0006IT**	TYPICAL VERTICAL SCREEN OPTION GROUND IMPROVEMENT PLAN
24	**STX-C-0007IT**	TYPICAL TEE SCREEN OPTION GROUND IMPROVEMENT PLAN
25	**STX-C-0008IT**	TYPICAL VERTICAL SCREEN OPTION INTAKE FACILITY CONSTRUCTION SWPPP
26	**STX-C-0009IT**	TYPICAL VERTICAL SCREEN OPTION INTAKE FACILITY POST CONSTRUCTION SWPPP
27	**STX-C-0010IT**	TYPICAL TEE SCREEN OPTION INTAKE FACILITY CONSTRUCTION SWPPP
28	**STX-C-0011IT**	TYPICAL TEE SCREEN OPTION INTAKE FACILITY POST CONSTRUCTION SWPPP
29	**STX-C-1001IT**	INTAKE 2 EXISTING PLAN
30	**STX-C-1002IT**	INTAKE 2 - VERTICAL SCREEN OPTION CONSTRUCTION PHASE OVERVIEW
31	**STX-C-1002AIT**	INTAKE 2 - VERTICAL SCREEN OPTION FINAL OVERVIEW
32	**STX-C-1003IT**	INTAKE 2 - VERTICAL SCREEN OPTION PHASE 1 SITE PLAN
33	**STX-C-1005IT**	INTAKE 2 - VERTICAL SCREEN OPTION PHASE 3 SITE PLAN
34	**STX-C-1006IT**	INTAKE 2 - TEE SCREEN OPTION CONSTRUCTION PHASE OVERVIEW
35	**STX-C-1006AIT**	INTAKE 2 - TEE SCREEN OPTION FINAL OVERVIEW
36	**STX-C-1007IT**	INTAKE 2 - TEE SCREEN OPTION PHASE 1 SITE PLAN
37	**STX-C-1009IT**	INTAKE 2 - TEE SCREEN OPTION PHASE 3 SITE PLAN
38	**STX-C-1010IT**	INTAKE 3 EXISTING PLAN
39	**STX-C-1011IT**	INTAKE 3 - VERTICAL SCREEN OPTION CONSTRUCTION PHASE OVERVIEW
40	**STX-C-1011AIT**	INTAKE 3 - VERTICAL SCREEN OPTION FINAL OVERVIEW
41	**STX-C-1012IT**	INTAKE 3 - VERTICAL SCREEN OPTION PHASE 1 SITE PLAN
42	**STX-C-1013IT**	INTAKE 3 - VERTICAL SCREEN OPTION PHASE 2 SITE PLAN
43	**STX-C-1014IT**	INTAKE 3 - VERTICAL SCREEN OPTION PHASE 3 SITE PLAN
44	**STX-C-1015IT**	INTAKE 3 - TEE SCREEN OPTION CONSTRUCTION PHASE OVERVIEW
45	**STX-C-1015AIT**	INTAKE 3 - TEE SCREEN OPTION FINAL OVERVIEW
46	**STX-C-1016IT**	INTAKE 3 - TEE SCREEN OPTION PHASE 1 SITE PLAN
47	**STX-C-1017IT**	INTAKE 3 - TEE SCREEN OPTION PHASE 2 SITE PLAN
48	**STX-C-1018IT**	INTAKE 3 - TEE SCREEN OPTION PHASE 3 SITE PLAN
49	**STX-C-1019IT**	INTAKE 5 EXISTING PLAN
50	**STX-C-1020IT**	INTAKE 5 - VERTICAL SCREEN OPTION CONSTRUCTION PHASE OVERVIEW
51	**STX-C-1020AIT**	INTAKE 5 - VERTICAL SCREEN OPTION FINAL OVERVIEW
52	**STX-C-1021 IT**	INTAKE 5 - VERTICAL SCREEN OPTION PHASE 1 SITE PLAN
53	**STX-C-1023IT**	INTAKE 5 - VERTICAL SCREEN OPTION PHASE 3 SITE PLAN
54	**STX-C-1024IT**	INTAKE 5 - TEE SCREEN OPTION CONSTRUCTION PHASE OVERVIEW
55	**STX-C-1024AIT**	INTAKE 5 - TEE SCREEN OPTION FINAL OVERVIEW
56	**STX-C-1025IT**	INTAKE 5 - TEE SCREEN OPTION PHASE 1 SITE PLAN
57	**STX-C-1027IT**	INTAKE 5 - TEE SCREEN OPTION PHASE 3 SITE PLAN
58	**STX-C-1030IT**	SEDIMENTATION DRYING LAGOON TYPICAL PLAN
59	**STX-C-2001IT**	INTAKE 2 - EXISTING LEVEE PROFILE AND CROSS SECTIONS W/ FINISH GRADE
60	**STX-C-2002IT**	INTAKE 3 - EXISTING LEVEE PROFILE AND CROSS SECTIONS W/ FINISH GRADE
61	**STX-C-2003IT**	INTAKE 5 - EXISTING LEVEE PROFILE AND CROSS SECTIONS W/ FINISH GRADE
62	**STX-C-3001IT**	HIGHWAY 160 TYPICAL SECTIONS AT INTAKE REALIGNMENTS
63	**STX-C-3002IT**	SITE SECTIONS
64	**STX-C-3003IT**	TYPICAL MINIMUM JURISDICTIONAL LEVEE SECTION
65	**STX-C-3030IT**	SEDIMENTATION DRYING LAGOON TYPICAL SECTIONS
66	**STX-C-4001IT**	SEDIMENTATION DRYING LAGOON OUTLET STRUCTURE TYPICAL PLAN AND SECTION
67	**STX-S-1001IT**	TYPICAL INTAKE FACILITY VERTICAL SCREEN GENERAL ARRANGEMENT & KEY PLAN
68	**STX-S-1002IT**	TYPICAL INTAKE FACILITY TEE SCREEN GENERAL ARRANGEMENT & KEY PLAN
69	**STX-S-1003IT**	INTAKES VERTICAL AND TEE SCREEN PLAN
70	**STX-S-1004IT**	INTAKES TYPICAL RADIAL GATE STRUCTURE PLAN

SHEET	DRAWING	TITLE
		VOLUME 2 OF 3 - CONTINUED
		INTAKES - COMMON - CONTINUED
71	**STX-S-1005IT**	TYPICAL OUTLET STRUCTURE SINGLE TUNNEL CONNECTION - PLAN AND SECTION
72	**STX-S-1006IT**	TYPICAL OUTLET STRUCTURE DUAL OUTLET CONNECTION - PLAN AND SECTION
73	**STX-S-3001IT**	INTAKES VERTICAL SCREENS SECTION
74	**STX-S-3002IT**	INTAKES TEE SCREENS SECTION
75	**STX-S-3003IT**	INTAKES VERTICAL SCREENS ELEVATION
76	**STX-S-3004IT**	INTAKES TEE SCREENS ELEVATION
77	**STX-S-3005IT**	INTAKES TYPICAL RADIAL GATE STRUCTURE SECTIONS AND DETAIL
78	**STX-S-9001IT**	INTAKES VERTICAL SCREEN ISOMETRIC
79	**STX-S-9002IT**	INTAKES TEE SCREEN ISOMETRIC
80	**STX-S-9003IT**	INTAKES TYPICAL CANAL AND GATE STRUCTURE ISOMETRIC
81	**STX-M-3001IT**	INTAKE VERTICAL SCREEN ELEVATION
82	**STX-M-3002IT**	INTAKE VERTICAL SCREEN PANEL ELEVATION
83	**STX-M-3003IT**	INTAKES TEE SCREENS ELEVATION, SECTION AND PLAN
84	**STX-I-0001IT**	INTAKES TYPICAL VERT SCREEN PROCESS FLOW DIAGRAM
85	**STX-I-0002IT**	INTAKES TYPICAL TEE SCREEN PROCESS FLOW DIAGRAM
		TUNNELS-CENTRAL
86	**STC-G-0010TN**	OVERALL SITE MAP
87	**STC-C-1060TN**	NORTH TUNNEL PLAN AND PROFILE - SHEET 1 OF 2
88	**STC-C-1070TN**	NORTH TUNNEL PLAN AND PROFILE - SHEET 2 OF 2
89	**STC-C-1090TN**	MAIN TUNNEL PLAN AND PROFILE - SHEET 1 OF 4
90	**STC-C-1100TN**	MAIN TUNNEL PLAN AND PROFILE - SHEET 2 OF 4
91	**STC-C-1110TN**	MAIN TUNNEL PLAN AND PROFILE - SHEET 3 OF 4
92	**STC-C-1120TN**	MAIN TUNNEL PLAN AND PROFILE - SHEET 4 OF 4
93	**STC-C-1130TN**	SOUTH TUNNEL NO. 1 PLAN AND PROFILE
94	**STC-C-1140TN**	SOUTH DMC TUNNEL PLAN AND PROFILE
95	**STC-C-1160TN**	TWIN CITIES DBL LAUNCH SHAFT SITE PLAN DISTURBANCE LIMITS
96	**STC-C-1170TN**	NEW HOPE MAINTENANCE SHAFT SITE PLAN DISTURBANCE LIMITS
97	**STC-C-1180TN**	STATEN ISLAND MAINTENANCE SHAFT SITE PLAN DISTURBANCE LIMITS
98	**STC-C-1190TN**	BOULDIN ISLAND LAUNCH/RECEPTION SITE PLAN DISTURBANCE LIMITS
99	**STC-C-1200TN**	MANDEVILLE ISLAND MAINT SHAFT SITE PLAN DISTURBANCE LIMITS
100	**STC-C-1210TN**	BACON ISLAND RECEPTION SHAFT SITE PLAN DISTURBANCE LIMITS
101	**STC-C-1220TN**	BYRON TRACT WORKING SHAFT SITE PLAN DISTURBANCE LIMITS
102	**STC-S-5160TN**	SHAFT PAD SECTION WET EXCAVATION WITH D-WALL
103	**STC-S-5170TN**	SINGLE LAUNCH, RECEPTION, WORKING AND MAINTENANCE SHAFTS - PLAN AND SECTION
104	**STC-S-5180TN**	TWIN CITIES DOUBLE LAUNCH SHAFT PLAN AND SECTION
105	**STC-S-5190TN**	MAIN TUNNELS SEGMENT LINING OPTIONS
106	**STC-S-5200TN**	SOUTH TUNNELS SEGMENT LINING OPTIONS
		TUNNELS-EASTERN
107	**STE-G-0010TN**	OVERALL SITE MAP
108	**STE-C-1060TN**	NORTH TUNNEL PLAN AND PROFILE - SHEET 1 OF 2
109	**STE-C-1070TN**	NORTH TUNNEL PLAN AND PROFILE - SHEET 2 OF 2
110	**STE-C-1090TN**	MAIN TUNNEL PLAN AND PROFILE SHEET 1 OF 5
111	**STE-C-1100TN**	MAIN TUNNEL PLAN AND PROFILE SHEET 2 OF 5
112	**STE-C-1110TN**	MAIN TUNNEL PLAN AND PROFILE SHEET 3 OF 5
113	**STE-C-1120TN**	MAIN TUNNEL PLAN AND PROFILE SHEET 4 OF 5
114	**STE-C-1130TN**	MAIN TUNNEL PLAN AND PROFILE SHEET 5 OF 5
115	**STE-C-1140TN**	SOUTH TUNNEL NO. 1 PLAN AND PROFILE
116	**STE-C-1150TN**	SOUTH DMC TUNNEL PLAN AND PROFILE
117	**STE-C-1170TN**	TWIN CITIES DBL LAUNCH SHAFT SITE PLAN DISTURBANCE LIMITS
118	**STE-C-1180TN**	NEW HOPE TRACT MAINT SHAFT SITE PLAN DISTURBANCE LIMITS
119	**STE-C-1190TN**	CANAL RANCH TRACT MAINT SHAFT SITE PLAN DISTURBANCE LIMITS
120	**STE-C-1200TN**	TERMINOUS TRACT RECEPTION SHAFT SITE PLAN DISTURBANCE LIMITS
121	**STE-C-1210TN**	KING ISLAND MAINTENANCE SHAFT SITE PLAN DISTURBANCE LIMITS
122	**STE-C-1220TN**	LOWER ROBERTS IS. LAUNCH/RECEPTION SITE PLAN DISTURBANCE LIMITS
123	**STE-C-1230TN**	UPPER JONES TRACT MAINT SHAFT SITE PLAN DISTURBANCE LIMITS
124	**STE-C-1240TN**	BYRON TRACT WORKING SHAFT SITE PLAN DISTURBANCE LIMITS
125	**STE-S-5160TN**	SHAFT PAD SECTION WET EXCAVATION WITH D-WALL
126	**STE-S-5170TN**	SINGLE LAUNCH, RECEPTION, WORKING AND MAINTENANCE SHAFTS - PLAN AND SECTION
127	**STE-S-5180TN**	TWIN CITIES DOUBLE LAUNCH SHAFT PLAN AND SECTION
128	**STE-S-5190TN**	MAIN TUNNELS SEGMENT LINING OPTIONS
129	**STE-S-5200TN**	SOUTH TUNNELS SEGMENT LINING OPTIONS
		PUMPING PLANT-COMMON
130	**STX-R-9001PP**	SITE PLAN RENDERING
131	**STX-R-9002PP**	RENDERING - 1
132	**STX-C-1001PP**	FINISHED SITE PLAN (6000 CFS)
133	**STX-C-1002PP**	FINISHED SITE PLAN (4500 CFS)
134	**STX-C-1003PP**	FINISHED SITE PLAN (7500 CFS)
135	**STX-C-1004PP**	CONSTRUCTION LAYOUT SITE PLAN
136	**STX-SM-1001PP**	PUMPING PLANT PLAN
137	**STX-SM-1002PP**	GRAVITY OUTLET STRUCTURE PLAN
138	**STX-SM-3001PP**	PUMPING PLANT SECTION
139	**STX-SM-3002PP**	PUMPING PLANT SECTION
140	**STX-SM-3003PP**	PUMPING PLANT SECTION
141	**STX-SM-3004PP**	GRAVITY OUTLET STRUCTURE SECTIONS
142	**STX-E-1001PP**	ELECTRICAL BUILDING (6000 CFS)

GENERAL

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED
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DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - CENTRAL AND EASTERN CORRIDORS

INDEX TO DRAWINGS 1

PROJECT NO. W8X97000
SHEET NO. STX-G-0010GN
REV
SEQUENCE NO.

STX-G-0010GN_W8X97000.dgn

PLOT DATE:2021\11\15 PLOT TIME:8:01:00 AM

VOLUME 2 OF 3 - CONTINUED

SHEET	DRAWING	TITLE
		PUMPING PLANT - COMMON - CONTINUED
143	**STX-E-6001PP**	OVERALL SINGLE LINE DIAGRAM
144	**STX-E-6002PP**	SINGLE LINE DIAGRAM
		FOREBAY-COMMON
145	**STX-C-1001FB**	SOUTHERN FOREBAY SITE PLAN
146	**STX-C-1002FB**	SOUTHERN FOREBAY GRADING PLAN
147	**STX-C-1003FB**	SOUTHERN FOREBAY FOUNDATION IMPROVEMENT PLAN
148	**STX-C-4001FB**	SOUTHERN FOREBAY TYPICAL EMBANKMENT CROSS SECTION
149	**STX-C-4002FB**	SPILLWAY STRUCTURE PLAN AND SECTION
150	**STX-C-4003FB**	SPILLWAY DISCHARGE CHANNEL PLAN AND SECTION
151	**STX-C-4004FB**	SPILLWAY DISCHARGE CHANNEL GRADING PLAN AND SECTION
		SOUTH DELTA CONVEYANCE FACILITIES-COMMON
152	**STX-C-0001SD**	SOUTH DELTA CONVEYANCE FACILITIES PROJECT OVERVIEW
153	**STX-C-0002SD**	SOUTH DELTA CONVEYANCE FACILITIES PROJECT OVERVIEW WITH JONES EXTENSION
154	**STX-C-1001SD**	SWPPP SOUTHERN FOREBAY OUTLET
155	**STX-C-1002SD**	SWPPP SOUTH DELTA OUTLET AND CA AQUEDUCT CONTROL STRUCTURES
156	**STX-C-1003SD**	SWPPP SOUTH DELTA OUTLET AND CA AQUEDUCT CONTROL WITH JONES EXTENSION
157	**STX-C-1004SD**	SWPPP JONES OUTLET AND DELTA MENDOTA CONTROL STRUCTURES
158	**STX-C-1005SD**	PRE-CONSTRUCTION SOUTHERN FOREBAY OUTLET STRUCTURE
159	**STX-C-1006SD**	PRE-CONSTRUCTION SOUTH DELTA OUTLET AND CA AQUEDUCT CONTROL STRUCTURES
160	**STX-C-1007SD**	PRE - CONSTRUCTION JONES OUTLET AND DELTA MENDOTA CONTROL STRUCTURES
161	**STX-C-1008SD**	GENERAL SITE ACCESS AND STAGING PLAN SOUTHERN FOREBAY OUTLET
162	**STX-C-1009SD**	GENERAL SITE ACCESS AND STAGING PLAN SOUTH DELTA OUTLET/ CA AQUEDUCT CONTROL
163	**STX-C-1010SD**	GENERAL SITE ACCESS AND STAGING PLAN S DELTA OUTLET/ CA AQUEDUCT W/ JONES EXT
164	**STX-C-1011SD**	GENERAL SITE ACCESS AND STAGING PLAN JONES OUTLET AND DELTA MENDOTA CONTROL
165	**STX-C-1012SD**	SOUTHERN FOREBAY OUTLET FINAL CONFIGURATION AND SITE BOUNDARY
166	**STX-C-1013SD**	SOUTH DELTA OUTLET/ CA AQUEDUCT CONTROL FINAL CONFIGURATION AND SITE BOUNDARY
167	**STX-C-1014SD**	S DELTA OUTLET/ CA AQUEDUCT W/ JONES EXT FINAL CONFIGURATION AND SITE BOUNDARY
168	**STX-C-1015SD**	JONES OUTLET AND DELTA MENDOTA CONTROL FINAL CONFIGURATION AND SITE BOUNDARY
169	**STX-C-1016SD**	SITE PLAN SOUTHERN FOREBAY OUTLET
170	**STX-C-1017SD**	SITE PLAN - SOUTH DELTA CONTROL AND OUTLET AND CA AQUEDUCT CONTROL STRUCTURE
171	**STX-C-1018SD**	SITE PLAN - SOUTH DELTA OUTLET AND CA AQUEDUCT CONTROL STRUCTURES W/JONES EXT
172	**STX-C-1019SD**	SITE PLAN JONES OUTLET STRUCTURE
173	**STX-C-3001SD**	SOUTHERN FOREBAY OUTLET SECTIONS
174	**STX-C-3002SD**	SOUTH DELTA OUTLET AND CA AQUEDUCT SECTIONS
175	**STX-C-3003SD**	DELTA MENDOTA CANAL SECTIONS
176	**STX-S-1001SD**	SOUTHERN FOREBAY OUTLET STRUCTURE PLAN
177	**STX-S-1002SD**	SOUTH DELTA OUTLET AND CONTROL STRUCTURE PLAN
178	**STX-S-1003SD**	CALIFORNIA AUQEDUCT CONTROL STRUCTURE PLAN
179	**STX-S-1004SD**	SOUTH DELTA OUTLET AND CONTROL STRUCTURE WITH JONES EXTENSION - PLAN
180	**STX-S-1005SD**	JONES OUTLET STRUCTURE PLAN
181	**STX-S-1006SD**	DELTA MENDOTA CANAL CONTROL STRUCTURE PLAN
182	**STX-S-3001SD**	SOUTH FOREBAY OUTLET STRUCTURE SECTIONS
183	**STX-S-3002SD**	SOUTH DELTA OUTLET AND CONTROL STRUCTURE SECTIONS
184	**STX-S-3003SD**	CALIFORNIA AUQEDUCT CONTROL STRUCTURE SECTIONS
185	**STX-S-3004SD**	SOUTH DELTA OUTLET AND CONTROL STRUCTURE WITH JONES EXTENSION - SECTIONS
186	**STX-S-3005SD**	JONES OUTLET STRUCTURE SECTIONS
187	**STX-S-3006SD**	DELTA MENDOTA CANAL CONTROL STRUCTURE SECTIONS
188	**STX-S-9001SD**	SOUTHERN FOREBAY OUTLET STRUCTURE RENDERING
189	**STX-S-9002SD**	SOUTH DELTA OUTLET AND CONTROL STRUCTURE RENDERING
190	**STX-S-9003SD**	CALIFORNIA AUQEDUCT CONTROL STRUCTURE RENDERING
191	**STX-S-9004SD**	SOUTH DELTA OUTLET AND CONTROL STRUCTURE WITH JONES EXTENSION - RENDERING
192	**STX-S-9005SD**	JONES OUTLET STRUCTURE RENDERING
193	**STX-S-9006SD**	DELTA MENDOTA CANAL CONTROL STRUCTURE RENDERING
		LEVEE IMPROVEMENTS-COMMON
194	**STX-C-1001LV**	TWIN CITIES COMPLEX RING LEVEE SITE PLAN
195	**STX-C-4001LV**	TWIN CITIES COMPLEX LEVEE TYPICAL CROSS SECTIONS
		LEVEE IMPROVEMENTS-CENTRAL
196	**STC-C-1001LV**	BOULDIN ISLAND LEVEE IMPROVEMENT SITE PLAN
197	**STC-C-4001LV**	BOULDIN ISLAND LEVEE IMPROVEMENTS TYPICAL CROSS SECTION
		LEVEE IMPROVEMENTS-EASTERN
198	**STE-C-1001LV**	LOWER ROBERTS LEVEE IMPROVEMENT SITE PLAN
199	**STE-C-4001LV**	LOWER ROBERTS LEVEE TYPICAL CROSS SECTION
		ROADS IMPROVEMENTS-CENTRAL
200	**STC-G-0010HW**	ACCESS ROAD PLAN KEY MAP
201	**STC-C-1010HW**	ACCESS ROAD PLAN LAMBERT ROAD WIDENING - 1 OF 2
202	**STC-C-1011HW**	ACCESS ROAD PLAN LAMBERT ROAD WIDENING - 2 OF 2
203	**STC-C-1020HW**	ACCESS ROAD PLAN DIERSSEN ROAD WIDENING
204	**STC-C-1025HW**	ACCESS ROAD PLAN FRANKLIN BOULEVARD REALIGNMENT
205	**STC-C-1031HW**	ACCESS ROAD PLAN TWIN CITIES ROAD WIDENING
206	**STC-C-1040HW**	ACCESS ROAD PLAN INTAKE ROAD - 1 OF 3
207	**STC-C-1041HW**	ACCESS ROAD PLAN INTAKE ROAD - 2 OF 3
208	**STC-C-1042HW**	ACCESS ROAD PLAN INTAKE ROAD - 3 OF 3
209	**STC-C-1061HW**	ACCESS ROAD PLAN INTAKE #3 ROAD
210	**STC-C-1071HW**	ACCESS ROAD PLAN INTAKE #5 ROAD

VOLUME 2 OF 3 - CONTINUED

SHEET	DRAWING	TITLE
		ROADS IMPROVEMENTS - CENTRAL - CONTINUED
211	**STC-C-1080HW**	ACCESS ROAD PLAN NEW HOPE TRACT/W. LAUFFER RD WIDENING
212	**STC-C-1090HW**	ACCESS ROAD PLAN N. STATEN ISLAND
213	**STC-C-1101HW**	ACCESS ROAD PLAN HWY 12 WIDENING AND BOULDIN I/C - 1 OF 5
214	**STC-C-1102HW**	ACCESS ROAD PLAN HWY 12 WIDENING - 2 OF 5
215	**STC-C-1103HW**	ACCESS ROAD PLAN HWY 12 WIDENING - 3 OF 5
216	**STC-C-1104HW**	ACCESS ROAD PLAN HWY 12 WIDENING - 4 OF 5
217	**STC-C-1105HW**	ACCESS ROAD PLAN HWY 12 WIDENING - 5 OF 5
218	**STC-C-1110HW**	ACCESS ROAD PLAN BOULDIN ISLAND ROAD
219	**STC-C-1120HW**	ACCESS ROAD PLAN MANDEVILLE ISLAND - 1 OF 5
220	**STC-C-1121HW**	ACCESS ROAD PLAN MANDEVILLE ISLAND - 2 OF 5
221	**STC-C-1122HW**	ACCESS ROAD PLAN MANDEVILLE ISLAND - 3 OF 5
222	**STC-C-1123HW**	ACCESS ROAD PLAN MANDEVILLE ISLAND - 4 OF 5
223	**STC-C-1124HW**	ACCESS ROAD PLAN MANDEVILLE ISLAND - 5 OF 5
224	**STC-C-1130HW**	ACCESS ROAD PLAN BACON ISLAND
225	**STC-C-1140HW**	ACCESS ROAD PLAN LOWER JONES ROAD - 1 OF 4
226	**STC-C-1141HW**	ACCESS ROAD PLAN LOWER JONES ROAD - 2 OF 4
227	**STC-C-1142HW**	ACCESS ROAD PLAN LOWER JONES ROAD - 3 OF 4
228	**STC-C-1143HW**	ACCESS ROAD PLAN LOWER JONES ROAD - 4 OF 4
229	**STC-C-1150HW**	ACCESS ROAD PLAN E. LOWER JONES ROAD EXTENSION/S. HOLT RR OH
230	**STC-C-1170HW**	ACCESS ROAD PLAN DISCOVERY BAY
231	**STC-C-1180HW**	ACCESS ROAD PLAN WESTERN FARMS RANCH RD SOUTH REALIGNMENT
232	**STC-C-1181HW**	ACCESS ROAD PLAN ARMSTRONG ROAD EXTENSION
233	**STC-C-1182HW**	ACCESS ROAD PLAN BYRON HIGHWAY REALIGNMENT
234	**STC-C-1183HW**	ACCESS ROAD PLAN BYRON HIGHWAY TRUCK BYPASS
235	**STC-C-1190HW**	ACCESS ROAD PLAN NORTH BRUNS WAY
236	**STC-C-4001HW**	ACCESS ROAD TYPICAL CROSS SECTIONS - 1 OF 8
237	**STC-C-4002HW**	ACCESS ROAD TYPICAL CROSS SECTIONS - 2 OF 8
238	**STC-C-4003HW**	ACCESS ROAD TYPICAL CROSS SECTIONS - 3 OF 8
239	**STC-C-4004HW**	ACCESS ROAD TYPICAL CROSS SECTIONS - 4 OF 8
240	**STC-C-4005HW**	ACCESS ROAD TYPICAL CROSS SECTIONS - 5 OF 8
241	**STC-C-4006HW**	ACCESS ROAD TYPICAL CROSS SECTIONS - 6 OF 8
242	**STC-C-4007HW**	ACCESS ROAD TYPICAL CROSS SECTIONS - 7 OF 8
243	**STC-C-4008HW**	ACCESS ROAD TYPICAL CROSS SECTIONS - 8 OF 8
244	**STC-C-5001HW**	ACCESS ROAD CONSTRUCTION DETAILS
245	**STC-C-5002HW**	HOOD FRANKLIN ROAD PARK AND RIDE SITE PLAN
246	**STC-C-5003HW**	RIO VISTA PARK AND RIDE SITE PLAN
247	**STC-C-5004HW**	CHARTER WAY PARK AND RIDE SITE PLAN
248	**STC-C-5005HW**	BYRON PARK AND RIDE SITE PLAN
249	**STC-C-5006HW**	BETHANY PARK AND RIDE SITE PLAN
		ROADS IMPROVEMENTS-EASTERN
250	**STE-G-0010HW**	ACCESS ROAD PLAN KEY MAP
251	**STE-C-1010HW**	ACCESS ROAD PLAN LAMBERT ROAD WIDENING - 1 OF 2
252	**STE-C-1011HW**	ACCESS ROAD PLAN LAMBERT ROAD WIDENING - 2 OF 2
253	**STE-C-1020HW**	ACCESS ROAD PLAN DIERSSEN ROAD WIDENING
254	**STE-C-1025HW**	ACCESS ROAD PLAN FRANKLIN BOULEVARD REALIGNMENT
255	**STE-C-1031HW**	ACCESS ROAD PLAN TWIN CITIES ROAD WIDENING
256	**STE-C-1040HW**	ACCESS ROAD PLAN INTAKE ROAD - 1 OF 3
257	**STE-C-1041HW**	ACCESS ROAD PLAN INTAKE ROAD - 2 OF 3
258	**STE-C-1042HW**	ACCESS ROAD PLAN INTAKE ROAD - 3 OF 3
259	**STE-C-1061HW**	ACCESS ROAD PLAN INTAKE #3 ROAD
260	**STE-C-1071HW**	ACCESS ROAD PLAN INTAKE #5 ROAD
261	**STE-C-1080HW**	ACCESS ROAD PLAN NEW HOPE TRACT
262	**STE-C-1090HW**	ACCESS ROAD PLAN CANAL RANCH TRACT
263	**STE-C-1101HW**	ACCESS ROAD PLAN HWY 12/TERMINOUS TRACT
264	**STE-C-1110HW**	ACCESS ROAD PLAN KING ISLAND TRACT
265	**STE-C-1120HW**	ACCESS ROAD PLAN LOWER ROBERTS ISLAND - 1 OF 4
266	**STE-C-1121HW**	ACCESS ROAD PLAN LOWER ROBERTS ISLAND - 2 OF 4
267	**STE-C-1122HW**	ACCESS ROAD PLAN LOWER ROBERTS ISLAND - 3 OF 4
268	**STE-C-1123HW**	ACCESS ROAD PLAN LOWER ROBERTS ISLAND - 4 OF 4
269	**STE-C-1130HW**	ACCESS ROAD PLAN UPPER JONES TRACT
270	**STE-C-1170HW**	ACCESS ROAD PLAN DISCOVERY BAY
271	**STE-C-1180HW**	ACCESS ROAD PLAN WESTERN FARMS RANCH RD SOUTH REALIGNMENT
272	**STE-C-1181HW**	ACCESS ROAD PLAN ARMSTRONG ROAD EXTENSION
273	**STE-C-1182HW**	ACCESS ROAD PLAN BYRON HIGHWAY REALIGNMENT
274	**STE-C-1183HW**	ACCESS ROAD PLAN BYRON HIGHWAY TRUCK BYPASS
275	**STE-C-1190HW**	ACCESS ROAD PLAN NORTH BRUNS WAY
276	**STE-C-4001HW**	ACCESS ROAD TYPICAL CROSS SECTIONS - 1 OF 6
277	**STE-C-4002HW**	ACCESS ROAD TYPICAL CROSS SECTIONS - 2 OF 6
278	**STE-C-4003HW**	ACCESS ROAD TYPICAL CROSS SECTIONS - 3 OF 6
279	**STE-C-4004HW**	ACCESS ROAD TYPICAL CROSS SECTIONS - 4 OF 6
280	**STE-C-4005HW**	ACCESS ROAD TYPICAL CROSS SECTIONS - 5 OF 6
281	**STE-C-4006HW**	ACCESS ROAD TYPICAL CROSS SECTIONS - 6 OF 6
282	**STE-C-5001HW**	ACCESS ROAD CONSTRUCTION DETAILS
283	**STE-C-5002HW**	HOOD FRANKLIN ROAD PARK AND RIDE SITE PLAN

VOLUME 2 OF 3 - CONTINUED

SHEET	DRAWING	TITLE
		ROADS IMPROVEMENTS-EASTERN - CONTINUED
284	**STE-C-5004HW**	CHARTER WAY PARK AND RIDE SITE PLAN
285	**STE-C-5005HW**	BYRON PARK AND RIDE SITE PLAN
286	**STE-C-5006HW**	BETHANY PARK AND RIDE SITE PLAN
287	**STX-C-1001RR**	RAIL SERVED MATERIALS DEPOT CONCEPT LAYOUT - BYRON TRACT
288	**STX-C-1002RR**	RAIL SERVED MATERIALS DEPOT CONCEPT LAYOUT - BYRON TRACT
289	**STX-C-1003RR**	RAIL SERVED MATERIALS DEPOT CONCEPT LAYOUT - BYRON TRACT
290	**STX-C-1004RR**	RAIL SERVED MATERIALS DEPOT CONCEPT LAYOUT - TWIN CITIES #1
291	**STX-C-4001RR**	RAIL SERVED MATERIALS DEPOT RAIL TYPICAL SECTION
292	**STX-C-4002RR**	RAIL SERVED MATERIALS DEPOT TYPICAL SECTION-RTM LOADING
293	**STX-C-4003RR**	RAIL SERVED MATERIALS DEPOT TYPICAL SECTION-TUNNEL SEGMENT UNLOADING
294	**STX-C-4004RR**	RAIL SERVED MATERIALS DEPOT TYPICAL SECTION-AGGREGATE UNLOADING
295	**STX-C-4005RR**	RAIL SERVED MATERIALS DEPOT TYPICAL SECTION-FUEL UNLOADING
296	**STX-C-4006RR**	RAIL SERVED MATERIALS DEPOT TYPICAL SECTION -DUMP TRUCK UNLOADING
297	**STX-C-4007RR**	RAIL SERVED MATERIALS DEPOT RAIL OPERATING PLAN
298	**STX-C-4008RR**	RAIL SERVED MATERIALS DEPOT RAIL OPERATING PLAN
299	**STX-C-4009RR**	RAIL SERVED MATERIALS DEPOT RAIL OPERATING PLAN
300	**STE-C-1005RR**	RAIL SERVED MATERIALS DEPOT CONCEPT LAYOUT - LOWER ROBERTS

GENERAL

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

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DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - CENTRAL AND EASTERN CORRIDORS

INDEX TO DRAWINGS 2

PROJECT NO. W8X97000
SHEET NO. STX-G-0011GN
REV
SEQUENCE NO.

STX-G-0011GN_W8X97000.dgn

PLOT DATE:2021\11\15 PLOT TIME:12:08:27 PM

ABBREVIATIONS

@	AT
#	NUMBER
AC	ACRES
A	AMPERES
AF	AMPERE FRAME
APVD	APPROVED
APPROX	APPROXIMATE
APR	AREA APPROVED RATIO
AT	AMP TRIP
ATO	ALL TUNNEL OPTION
AUTO	AUTOMATIC
AUX	AUXILIARY
AVG	AVERAGE
B	BARN
BFV	BUTTERFLY VALVE
BLVD	BOULEVARD
BOT	BOTTOM
BTF	BYRON TRACT FOREBAY
BUS	BINARY UNIT SYSTEM
C	CIVIL, IRRIGATION CHANNEL
CA	CALIFORNIA
C/C	CENTER TO CENTER
CCF	CLIFTON COURT FOREBAY
CDFG	CALIFORNIA DEPARTMENT OF FISH AND GAME
CDSM	CEMENT DEEP SOIL MIXING
C-E	CENTRAL EAST
CE	CIVIL ENGINEER
CFS	CUBIC FEET PER SECOND
CL	CENTERLINE
CLR	CLEAR
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CONC	CONCRETE
CS	CONSTANT SPEED
CVP	CENTRAL VALLEY PROJECT
DRF	DECANT RETURN FLOW
DIA	DIAMETER
DIMS	DIMENSIONS
DN	DOWN
DRF	DIRT ROAD
DS	DOWNSTREAM, DREDGED SEDIMENT
DW	DRIVEWAY
DWG	DRAWING
E	EAST
EB	EASTBOUND, EAST BARREL
EG	EXISTING GRADE
EL	ELEVATION
EP	EDGE OF PAVEMENT
ES	EASEMENT
ESA	ENVIROMENTALLY SENSITIVE AREA
ETW	EDGE OF TRAVEL WAY
(E), EXST	EXISTING
EXIST	EXISTING
FB	FOREBAY
FF	FINISH FLOOR
FG	FINISH GRADE
FLA	FULL LOAD AMPERE
FM	FLOW METER
FPS	FEET PER SECOND
FT	FEET
G	GATE
GN	GENERAL
GW	GROUNDWATER
H	HEIGHT
HGL	HYDRAULIC GRADE LINE
HP	HORSE POWER
HPU	HYDRAULIC POWER UNIT
HS	HAND SWITCH
HWY	HIGHWAY
HZ	HERTZ
I	INTERSTATE, INSTRUMENTATION
ICF	ISOLATED CONVEYANCE FACILITY
ID	INSIDE DIAMETER
IF	INTERMEDIATE FOREBAY
IG	IRRIGATION PUMP
IGH	IRRIGATION PUMP HOUSE
INV	INVERT
IPP	INTERMEDIATE PUMPING PLANT
IT	INTAKE
KSI	KIPS PER SQUARE INCH
KV	KILOVOLTS
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
LOR	LOCAL-OFF-REMOTE
LV	LEVEE
LWL	LOW WATERLINE
M	MOTOR, MECHANICAL
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MHHW	MEAN HIGHER HIGH WATER
MIN	MINIMUM
MM	MILLIMETER
MLLW	MEAN LOWER LOW WATER
MVA	MEGAVOLT AMPERE
(N)	NEW
N	NORTH
NAD	NORTH AMERICAN DATUM OF 1983
NAV	NORTH AMERICAN VERTICAL DATUM OF 1988
NB	NORTHBOUND
NO	NUMBER
NOAA	NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION
NORM	NORMAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OG	ORIGINAL GROUND
OSC	OPEN / STOP CLOSE
PF	POWER FACTOR
PH	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLERS
PNL	PANEL
PP	PUMPING PLANT
P&ID	PIPING AND INSTRUMENTATION DIAGRAM
PROP	PROPOSED
PS	PUMP STATION
PSB	PERMANENT SITE BOUNDARY
PSI	POUNDS PER SQUARE INCH
PVDS	PRE-FABRICATED VERTICAL DRAINS
Q	FLOW RATE
R	RADIUS
RCC	REINFORCED
RCP	REINFORCED CEMENT PIPE
RD	ROAD
REG	REGISTERED
REV	REVISION
RR	RAILROAD
RTM	REUSEABLE TUNNEL MATERIAL
S	SLOPE, SOUTH, STRUCTURAL
SB	SOUTHBOUND
SD	SOUTH DELTA
SED	SEDIMENTATION
SEG	STANDBY ENGINE GENERATOR
SF	SQUARE FEET
SHLD	SHOULDER
SL	SPRING LINE
SLR	SEA LEVEL RISE
SMUD	SACRAMENTO MUNICIPAL UTILITY DISTRICT
SQ	SQUARE FEET
SS,SST	STAINLESS STEEL
ST	STREET
STA	STATION
STC	SINGLE TUNNEL CENTRAL
STE	SINGLE TUNNEL EAST
STX	SINGLE TUNNEL CENTRAL AND EASTERN
SUB	SUBMITTED
SWGR	SWITCHGEAR
SWP	STATE WATER PROJECT
TBD	TO BE DETERMINED
THK	THICK
TOS	TOE OF SLOPE
TSB	TEMPORARY SITE BOUNDARY
TYP	TYPICAL
UD	UNDERDRAIN
UHMW	ULTRA HIGH MOLECULAR WEIGHT
UPRR	UNION PACIFIC RAILROAD
V	VELOCITY, VOLTS
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
W	WEST, WIDTH
W/	WITH
WB	WESTBOUND
WC	WATER COIL
WL	WATERLINE
WSE	WATER SURFACE ELEVATION
WSP	WELDED STEEL PIPE
WY	WAY
XFMR	TRANSFORMER
YR	YEAR
ZIT	POSITION INDICATING TRANSMITTER
ZSC	POSITION SWITCH CLOSED
ZSO	POSITION SWITCH OPEN

Nomenclature Notes

The California Department of Water Resources (DWR) requested the Delta Conveyance Design and Construction Authority (DCA) develop conceptual engineering information for key features of the Central and Eastern corridors for consideration by DWR to prepare an Environmental Impact Report (EIR). The evaluation of the Central Corridor and Eastern Corridor options in the DWR EIR would include four project design capacity alternatives. These project design capacities include 6,000 cfs, 7,500 cfs, 3,000 cfs, and 4,500 cfs for each corridor option. DWR uses different nomenclature than DCA to describe the various alternatives. This nomenclature is described as follows:

DWR EIR Alternative Nomenclature

- Alternative 1: Central Corridor with a project design capacity of 6,000 cfs and Intakes B and C
- Alternative 2a: Central Corridor with a project design capacity of 7,500 cfs and Intakes A, B, and C
- Alternative 2b: Central Corridor with a project design capacity of 3,000 cfs and Intake C
- Alternative 2c: Central Corridor with a project design capacity of 4,500 cfs and Intakes B and C
- Alternative 3: Eastern Corridor with a project design capacity of 6,000 cfs and Intakes B and C
- Alternative 4a: Eastern Corridor with a project design capacity of 7,500 cfs and Intakes A, B, and C
- Alternative 4b: Eastern Corridor with a project design capacity of 3,000 cfs and Intake C
- Alternative 4c: Eastern Corridor with a project design capacity of 4,500 cfs and Intakes B and C

EPR Nomenclature

- 6,000 cfs project design capacity for the Central Corridor using Intakes C-E-3 and C-E-5
- 7,500 cfs project design capacity for the Central Corridor using Intakes C-E-2, C-E-3, and C-E-5
- 3,000 cfs project design capacity for the Central Corridor using Intake C-E-5
- 4,500 cfs project design capacity for the Central Corridor using Intakes C-E-3 and C-E-5
- 6,000 cfs project design capacity for the Eastern Corridor using Intakes C-E-3 and C-E-5
- 7,500 cfs project design capacity for the Eastern Corridor using Intakes C-E-2, C-E-3, and C-E-5
- 3,000 cfs project design capacity for the Eastern Corridor using Intake C-E-5
- 4,500 cfs project design capacity for the Eastern Corridor using Intakes C-E-3 and C-E-5

Intake Designations are as follows:

DWR EIR	EPR
Intake A	Intake C-E-2
Intake B	Intake C-E-3
Intake C	Intake C-E-5

SHEET NO. LEGEND

STC-G-1001GN

- FACILITY CODE
- SHEET NUMBER
- SHEET TYPE
- DISCIPLINE
- OPTION

OPTIONS

STC	SINGLE TUNNEL CENTRAL
STE	SINGLE TUNNEL EASTERN
STX	SINGLE TUNNEL CENTRAL AND EASTERN OR ALL ALTERNATIVES

DISICPLINE:

A	ARCHITECTURAL
C	CIVIL
E	ELECTRICAL
G	GENERAL
H	HVAC
I	INSTRUMENTS AND CONTROLS
L	LANDSCAPING
M	PROCESS MECHANICAL
S	STRUCTURAL
R	RENDERING
C	SITE CIVIL

SHEET TYPES:

0	GENERAL
1	PLANS
2	ELEVATIONS / PROFILES
3	ELEVATIONS AND SECTIONS
4	ENALRGED PLANS & SECTIONS
5	DETAILS
6	SCHEDULES
7	OPTIONAL USER DEFINED
8	OPTIONAL USER DEFINED
9	3D REPRESENTATIONS

FACILITY CODES:

GN	GENERAL
FB	FOREBAY
HW	HIGHWAYS/ROADS
IT	INTAKES
LV	LEVEES
MA	MARINE
PP	PUMPING PLANT
RR	RAIL
SD	SOUTH DELTA CONVEYANCE FACILITIES
TN	TUNNELS AND SHAFTS

GENERAL

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0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

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ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - CENTRAL AND EASTERN CORRIDORS

ABBREVIATIONS AND SHEET NUMBER KEY

PROJECT NO. W8X97000
SHEET NO. STX-G-0020GN
REV | SEQUENCE NO.

STX-G-0020GN_W8X97000.dgn

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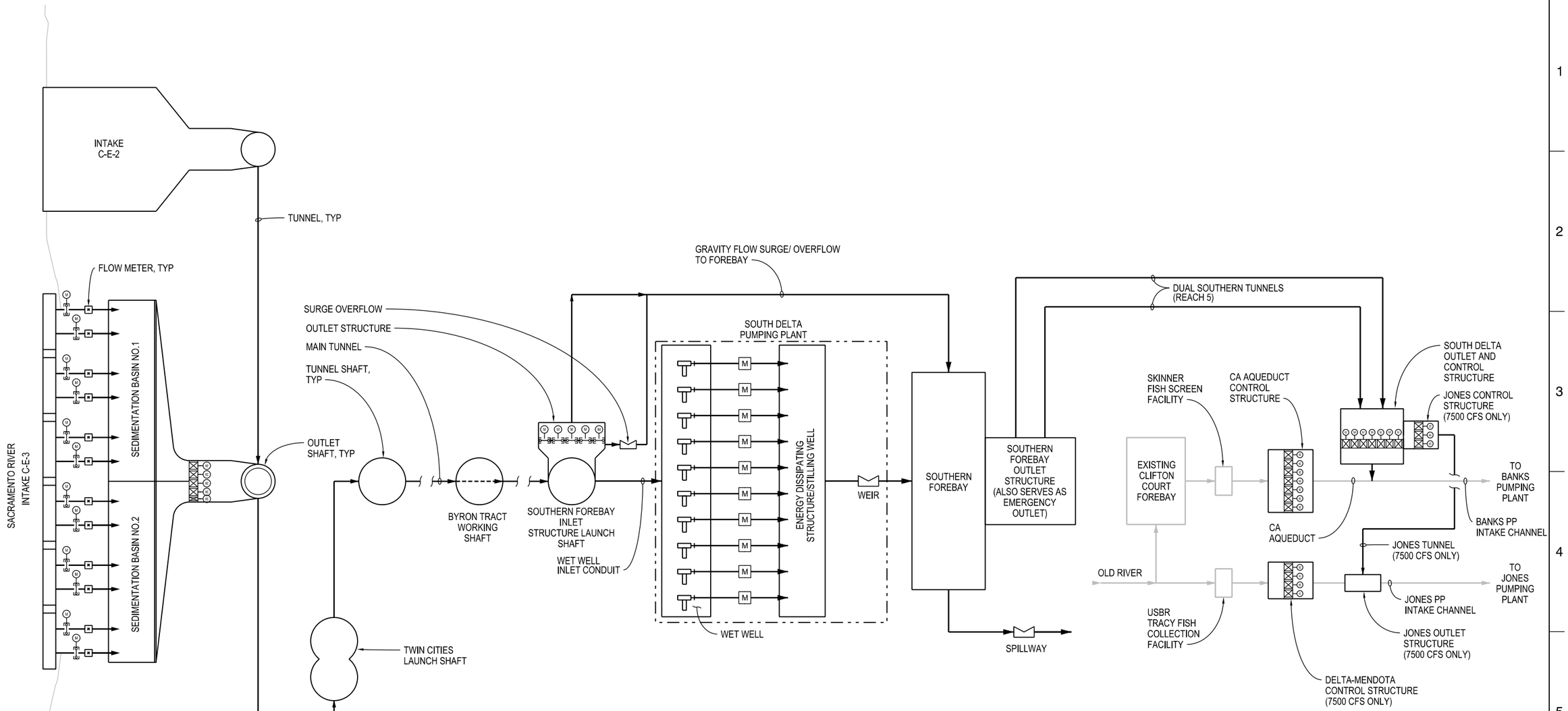

LEGEND

- MOTORIZED RADIAL GATE
- MOTORIZED CONTROL GATE
- VERTICAL PUMP
- FLOW METER
- WEIR/ SPILLWAY
- NEW
- EXISTING

NOTES:

1. NUMBER OF INTAKES, SITE(S), AND CAPACITY BY FINAL SELECTED DIVERSION CAPACITY (3,000-7,500 CFS).
2. ALL PUMPS ARE EQUIPPED WITH VARIABLE FREQUENCY DRIVES.

GENERAL

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REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

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ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - CENTRAL AND EASTERN CORRIDORS

OVERALL PROCESS FLOW DIAGRAM

PROJECT NO. W8X97000
SHEET NO. STX-G-0070GN
REV | SEQUENCE NO.

STX-G-0070GN_W8X97000.dgn

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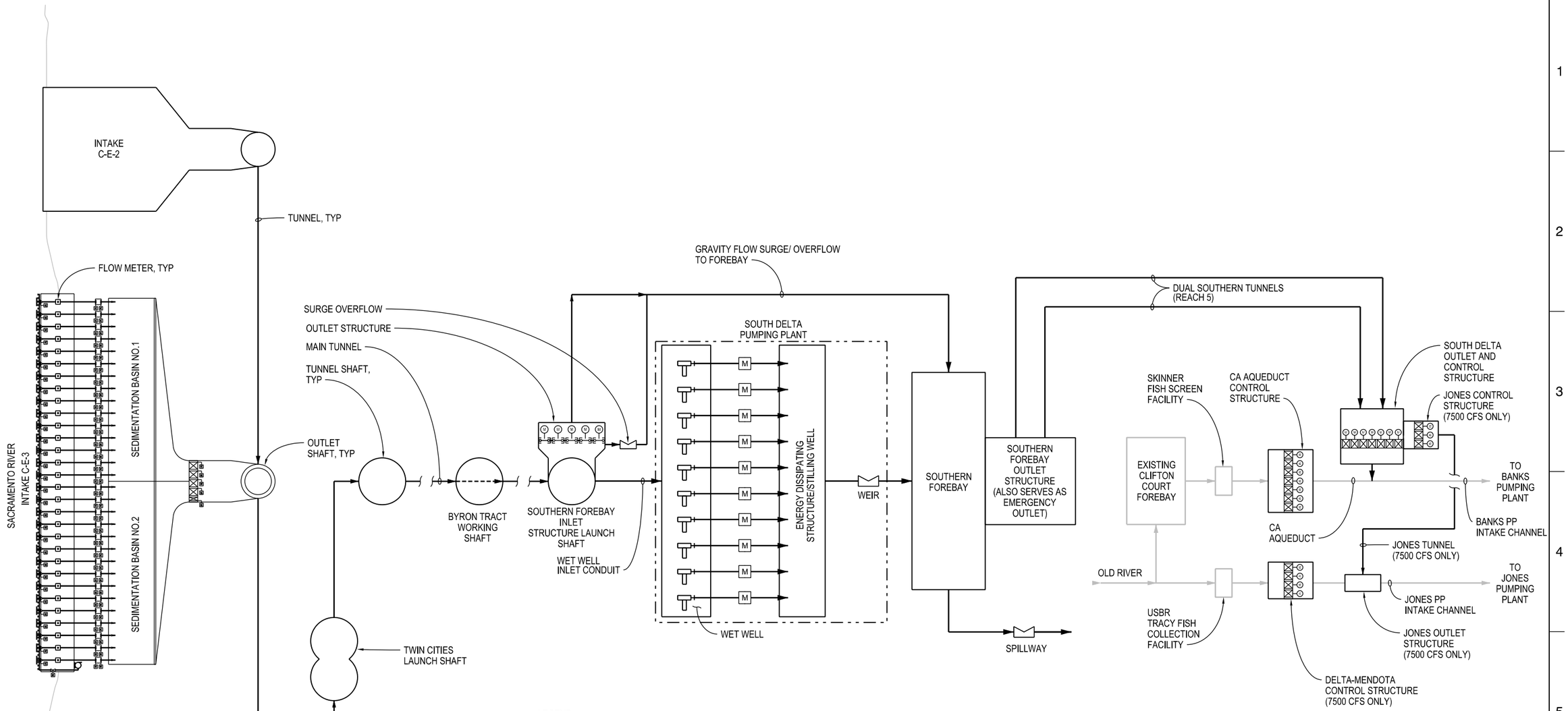

LEGEND

- MOTORIZED RADIAL GATE
- MOTORIZED CONTROL GATE
- VERTICAL PUMP
- FLOW METER
- WEIR/ SPILLWAY
- NEW
- EXISTING

NOTES:

1. NUMBER OF INTAKES, SITE(S), AND CAPACITY BY FINAL SELECTED DIVERSION CAPACITY (3,000-7,500 CFS).
2. ALL PUMPS ARE EQUIPPED WITH VARIABLE FREQUENCY DRIVES.

GENERAL

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REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

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ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - CENTRAL AND EASTERN CORRIDORS

OVERALL PROCESS FLOW DIAGRAM
CYLINDRICAL TEE SCREENS

PROJECT NO. W8X97000
SHEET NO. STX-G-0075GN
REV
SEQUENCE NO.

STX-G-0075GN_W8X97000.dgn

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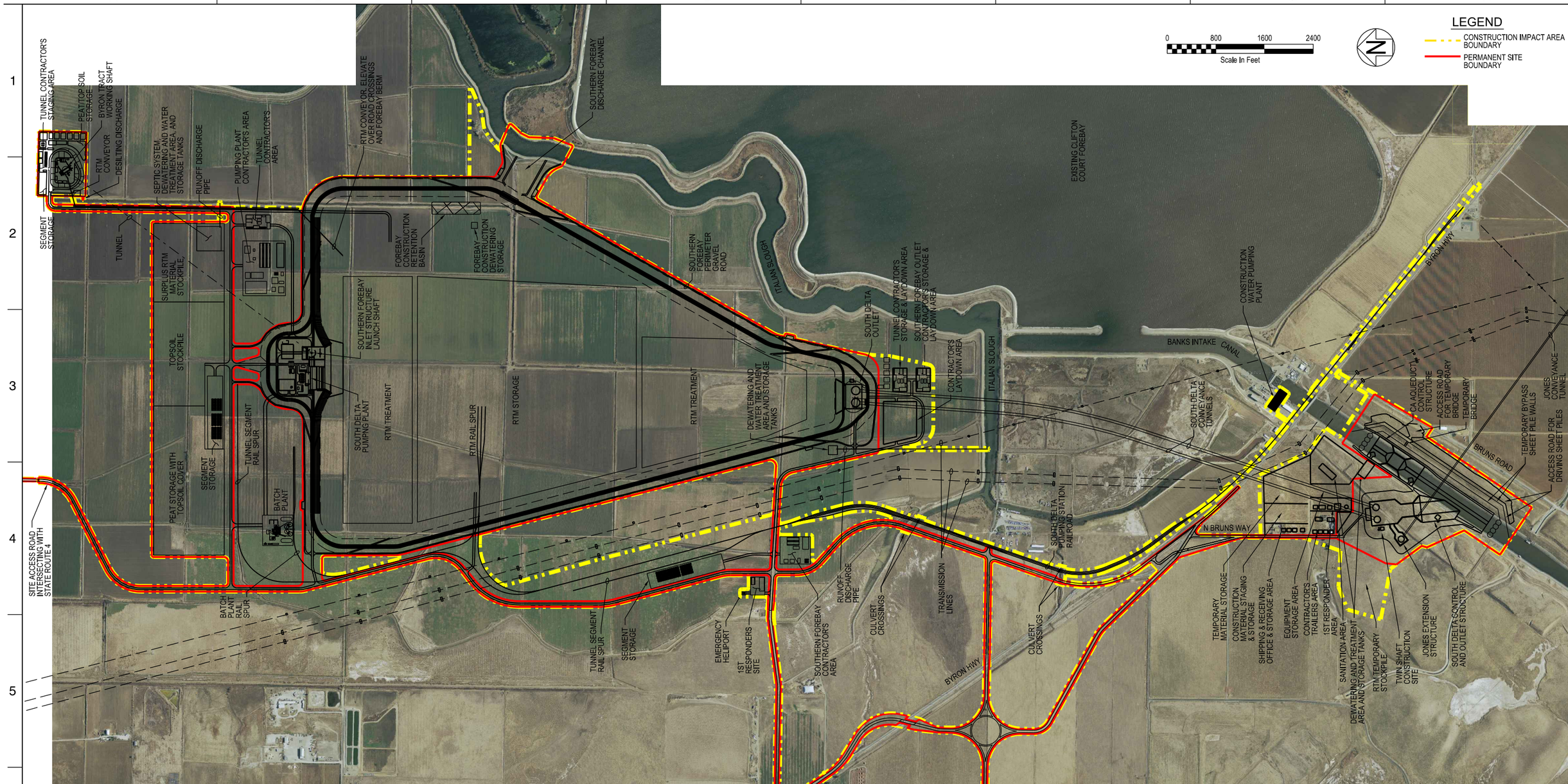

SUMMARY OF STOCKPILE AREAS AT THE SOUTHERN FOREBAY							
PROJECT FLOW CAPACITY (CFS)	SURPLUS RTM ACREAGE		PEAT STOCKPILE ACREAGE (INCLUDING 5 FEET OF TOPSOIL)	SURPLUS TOPSOIL ACREAGE		TOTAL STOCKPILE ACREAGE	
	CENTRAL CORRIDOR	EASTERN CORRIDOR		CENTRAL CORRIDOR	EASTERN CORRIDOR	CENTRAL CORRIDOR	EASTERN CORRIDOR
3000	0	0	60	40	40	100	100
4500	0	17	60	40	41	100	118
6000	0	30	60	40	41	100	131
7500	0	51	60	40	42	100	153

NOTE:
1. THE STOCKPILE AREAS SHOWN HEREON REPRESENT THE EASTERN CORRIDOR WITH PROJECT FLOW CAPACITY OF 6,000 CUBIC FEET PER SECOND (CFS).

GENERAL

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0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: P ROBINSON
DRAWN: J OYE
CHECKED: G BRADNER
APPROVAL RECOMMENDED
APPROVAL BY

DCA
DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - CENTRAL AND EASTERN CORRIDORS

SOUTHERN COMPLEX IMPACT AREA LIMITS

PROJECT NO. W8X97000
SHEET NO. STX-G-0090GN
REV
SEQUENCE NO.

STX-G-0090GN_W8X97000.dgn

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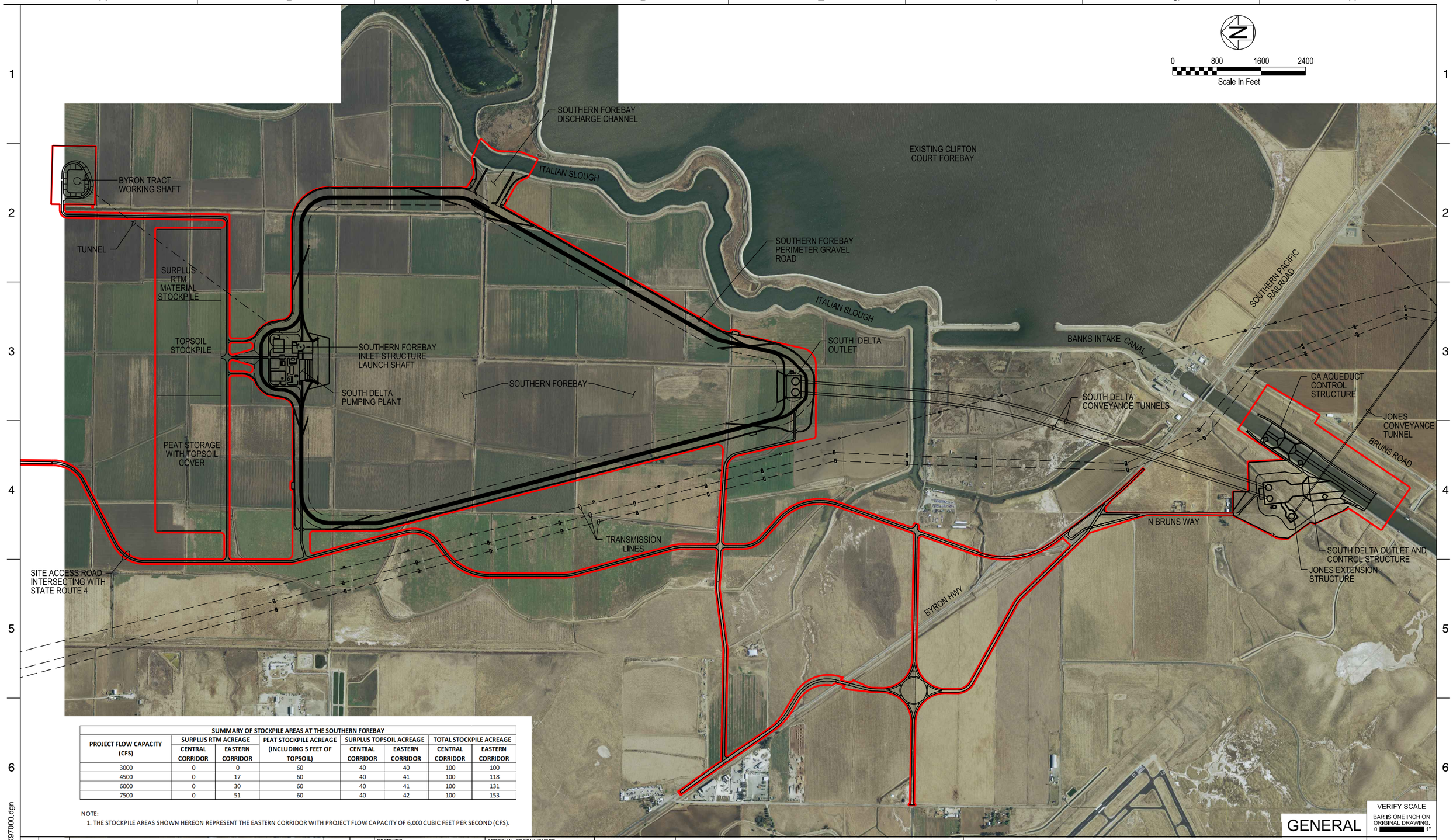


SUMMARY OF STOCKPILE AREAS AT THE SOUTHERN FOREBAY							
PROJECT FLOW CAPACITY (CFS)	SURPLUS RTM ACREAGE		PEAT STOCKPILE ACREAGE (INCLUDING 5 FEET OF TOPSOIL)	SURPLUS TOPSOIL ACREAGE		TOTAL STOCKPILE ACREAGE	
	CENTRAL CORRIDOR	EASTERN CORRIDOR		CENTRAL CORRIDOR	EASTERN CORRIDOR	CENTRAL CORRIDOR	EASTERN CORRIDOR
3000	0	0	60	40	40	100	100
4500	0	17	60	40	41	100	118
6000	0	30	60	40	41	100	131
7500	0	51	60	40	42	100	153

NOTE:
1. THE STOCKPILE AREAS SHOWN HEREON REPRESENT THE EASTERN CORRIDOR WITH PROJECT FLOW CAPACITY OF 6,000 CUBIC FEET PER SECOND (CFS).

GENERAL

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: P ROBINSON
DRAWN: J OYE
CHECKED: G BRADNER
APPROVAL RECOMMENDED
APPROVAL BY

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - CENTRAL AND EASTERN CORRIDORS

SOUTHERN COMPLEX POST-CONSTRUCTION SITE PLAN

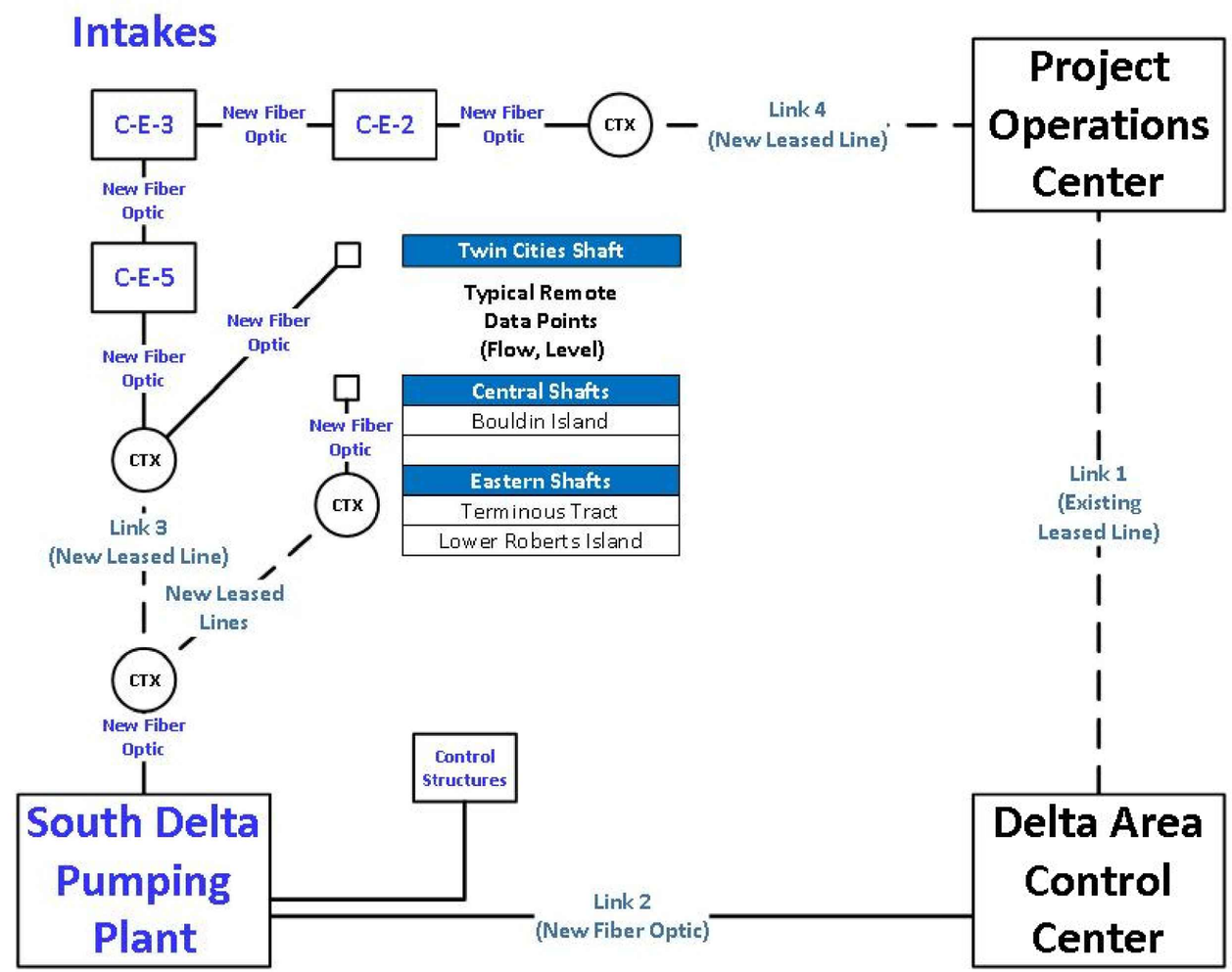
PROJECT NO. W8X97000
SHEET NO. STX-G-0100GN
REV
SEQUENCE NO.

STX-G-0100GN_W8X97000.dgn

PLOT DATE:2021\11\15 PLOT TIME:7:30:50 AM

Delta Conveyance Communications Diagram

Legend		
Symbol	Description	Count
	Remote Data Point	2
C-E-3	Local Control Point	4
CTX	Leased Line Point (Router)	4



GENERAL

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED
DRAWN
CHECKED
APPROVAL RECOMMENDED
APPROVAL BY

DCA DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - CENTRAL AND EASTERN CORRIDORS

COMMUNICATION DIAGRAM

PROJECT NO. W8X97000
SHEET NO. STX-E-0030GN
REV
SEQUENCE NO.

STX-E-0030GN_W8X97000.dgn

PLOT DATE:2021\11\15 PLOT TIME:8:28:51 AM

GENERAL

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED
DRAWN
CHECKED
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APPROVAL BY

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - CENTRAL CORRIDOR

PROJECT SCHEMATIC

PROJECT NO. W8X97000
SHEET NO. STC-G-0040GN
REV
SEQUENCE NO.

STC-G-0040GN_W8X97000.dgn

PLOT DATE:2021\11\15 PLOT TIME:7:12:27 AM

Legend

- Proposed Launch Shaft
- Proposed Launch/Reception Shaft
- Proposed Maintenance Shaft
- Proposed Reception Shaft
- Southern Forebay

Tunnel

- Central
- North Tunnel
- Dual Southern Tunnels

TWIN CITIES DOUBLE LAUNCH SHAFT

NEW HOPE TRACT MAINTENANCE SHAFT

STATEN ISLAND MAINTENANCE SHAFT

BOULDIN ISLAND LAUNCH/RECEPTION SHAFT

MANDEVILLE ISLAND MAINTENANCE SHAFT

BACON ISLAND RECEPTION SHAFT

BYRON TRACT WORKING SHAFT

SOUTHERN FOREBAY INLET STRUCTURE LAUNCH SHAFT

SOUTHERN FOREBAY

SOUTHERN BYRON TRACT DUAL LAUNCH SHAFT

BANKS PUMPING PLANT APPROACH CHANNEL DUAL RECEPTION SHAFT

C-E-3 RECEPTION SHAFT

C-E-5 MAINTENANCE SHAFT

EXISTING CLIFTON COURT FOREBAY

SOUTHERN FOREBAY

SOUTHERN FOREBAY OUTLET STRUCTURE

DUAL SOUTHERN TUNNELS

CA AQUADUCT CONTROL STRUCTURE

SOUTH DELTA OUTLET AND CONTROL STRUCTURE

BANKS INTAKE CANAL

Sacramento County

San Joaquin County

Yolo County

Solano

Contra Costa County

Alameda County

Lodi, Thornton, Walnut Grove, Locke, Hood, Clarksburg, Courtland, Ryde, Isleton, Terminous, Bethel Island, Knightsen, Oakley, Rio Vista, Brentwood, Holt, Discovery Bay, Byron, Mountain House, Banks Pumping Plant, Jones Pumping Plant

GENERAL

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED
DRAWN
CHECKED
APPROVAL RECOMMENDED
APPROVAL BY

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DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

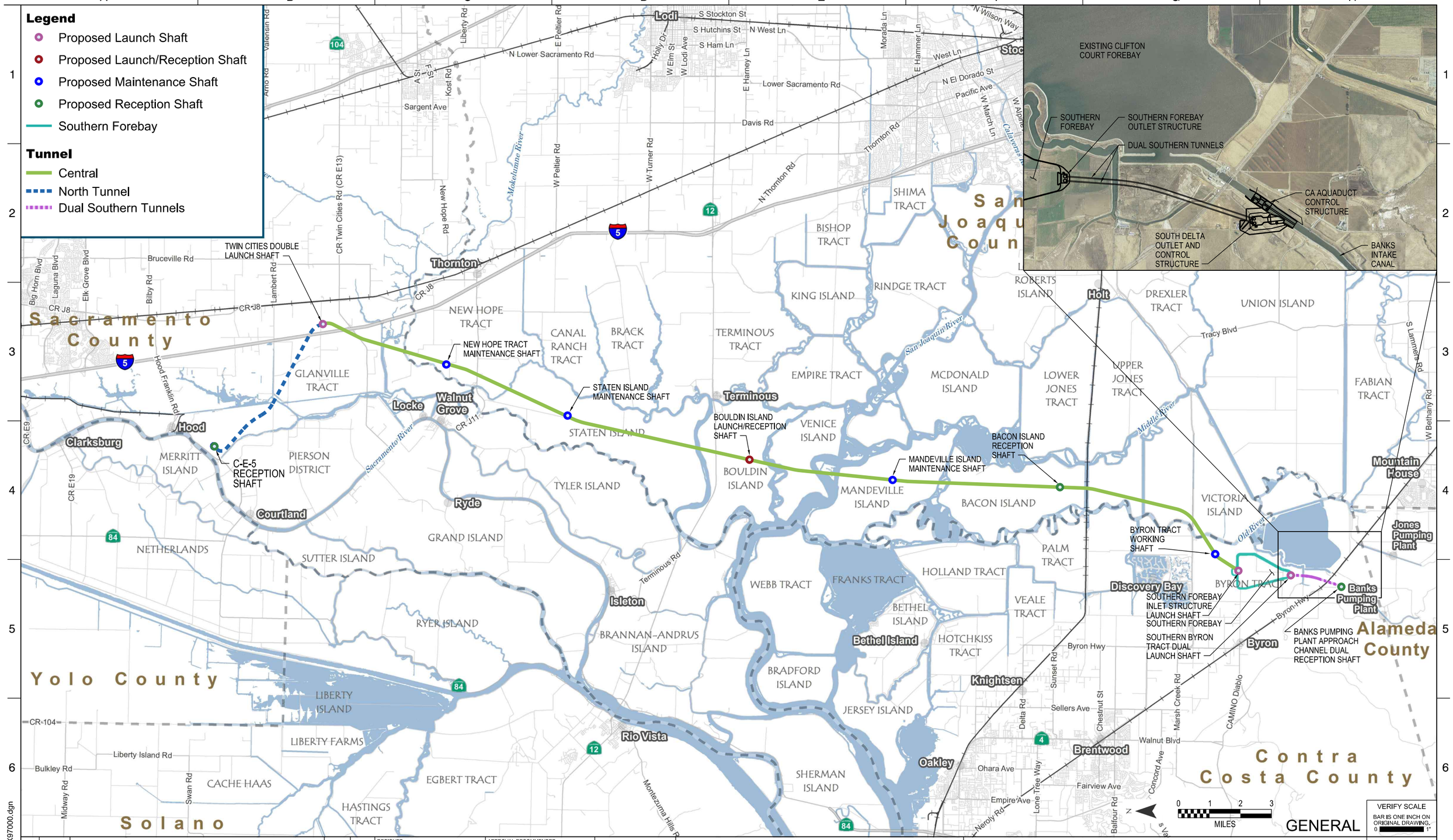
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - CENTRAL CORRIDOR

CONVEYANCE OVERVIEW - OPTION 1
6,000 CFS AT INTAKES C-E-3 AND C-E-5

PROJECT NO. W8X97000
SHEET NO. STC-G-0050GN
REV
SEQUENCE NO.

STC-G-0050GN_W8X97000.dgn

PLOT DATE:2021\11\15 PLOT TIME:9:02:16 AM



REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED
DRAWN
CHECKED
APPROVAL RECOMMENDED
APPROVAL BY

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DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

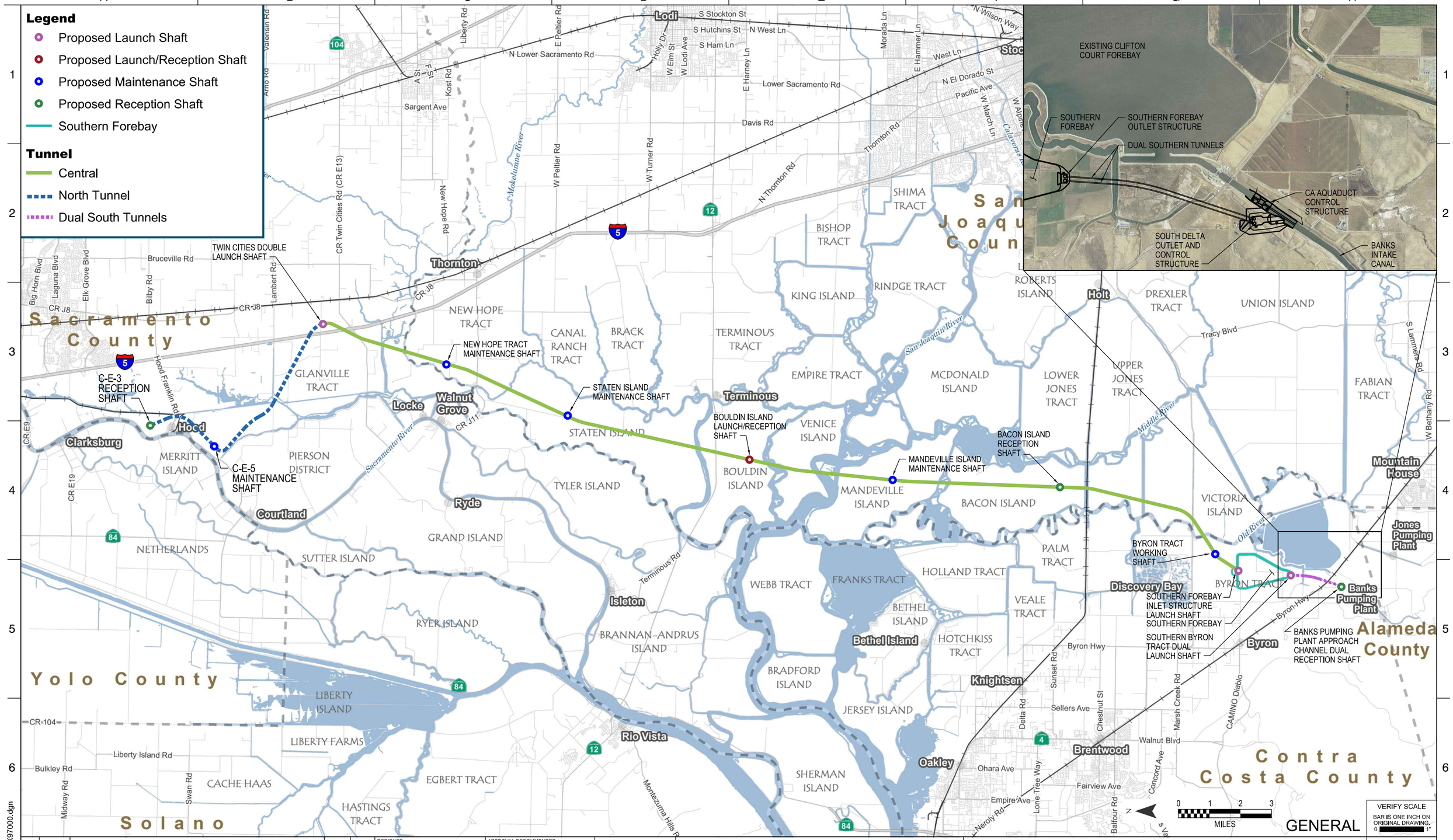
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - CENTRAL CORRIDOR

CONVEYANCE OVERVIEW - OPTION 5
3,000 CFS AT INTAKE C-E-5

PROJECT NO. W8X97000
SHEET NO. STC-G-0051GN
REV
SEQUENCE NO.

STC-G-0051GN_W8X97000.dgn

PLOT DATE:2021\11\15 PLOT TIME:9:41:08 AM



REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED
DRAWN
CHECKED
APPROVAL RECOMMENDED
APPROVAL BY

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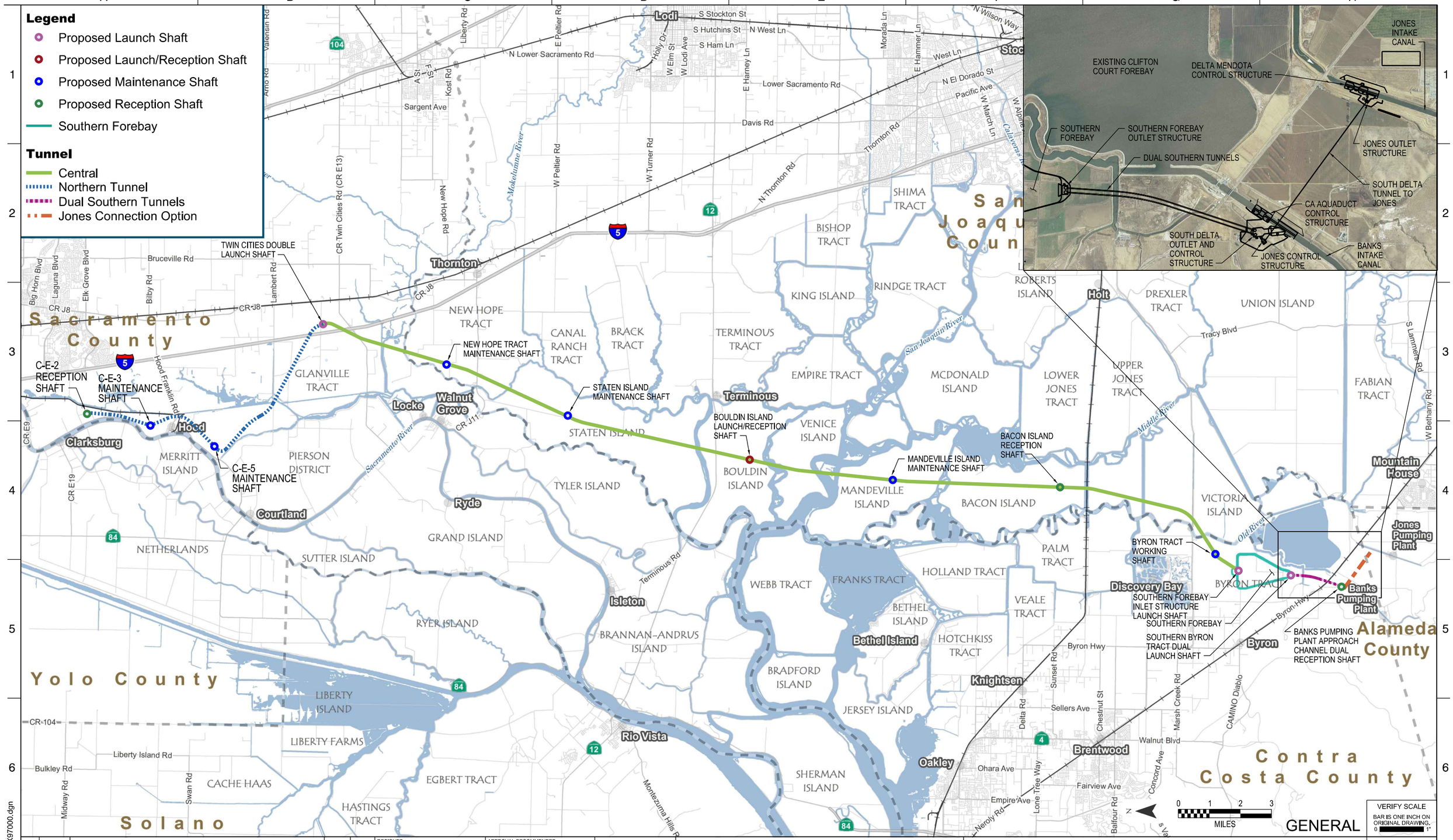
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - CENTRAL CORRIDOR

CONVEYANCE OVERVIEW - OPTION 7
4,500 CFS AT INTAKES C-E-3 AND C-E-5

PROJECT NO. W8X97000
SHEET NO. STC-G-0052GN
REV
SEQUENCE NO.

STC-G-0052GN_W8X97000.dgn

PLOT DATE:2021\11\15 PLOT TIME:9:55:44 AM



REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED | APPROVAL RECOMMENDED
DRAWN | APPROVAL BY
CHECKED

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ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - CENTRAL CORRIDOR

CONVEYANCE OVERVIEW - OPTION 9
7,500 CFS AT INTAKES C-E-2, C-E-3, AND C-E-5

PROJECT NO. W8X97000
SHEET NO. STC-G-0053GN
REV | SEQUENCE NO.

STC-G-0053GN_W8X97000.dgn

PLOT DATE:2021\11\15 PLOT TIME:10:01:45 AM

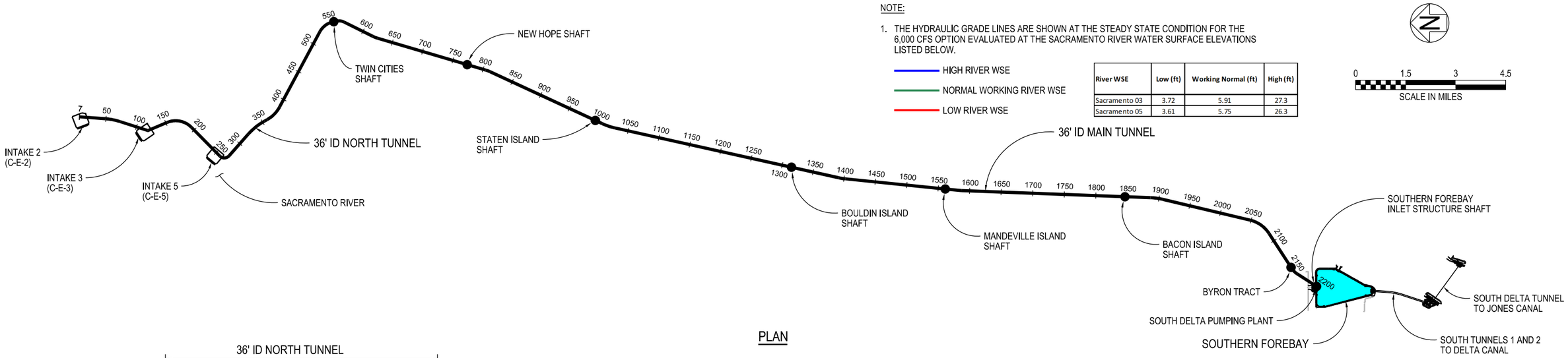
NOTE:

1. THE HYDRAULIC GRADE LINES ARE SHOWN AT THE STEADY STATE CONDITION FOR THE 6,000 CFS OPTION EVALUATED AT THE SACRAMENTO RIVER WATER SURFACE ELEVATIONS LISTED BELOW.

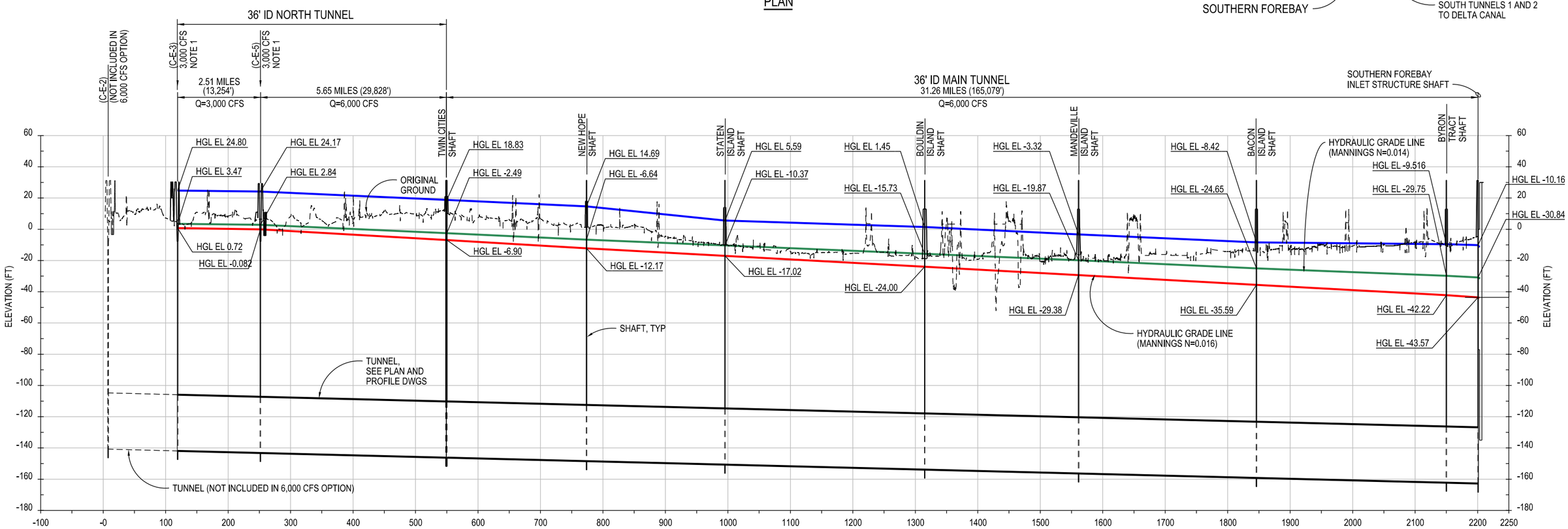
HIGH RIVER WSE
NORMAL WORKING RIVER WSE
LOW RIVER WSE

River WSE	Low (ft)	Working Normal (ft)	High (ft)
Sacramento 03	3.72	5.91	27.3
Sacramento 05	3.61	5.75	26.3

0 1.5 3 4.5
SCALE IN MILES



PLAN



PROFILE

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: S HUSSAIN
DRAWN: B CHELONIS
CHECKED:
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - CENTRAL CORRIDOR

OVERALL HYDRAULIC PLAN AND PROFILE

PROJECT NO. W8X97000
SHEET NO. STC-G-0080GN
REV
SEQUENCE NO.

STC-G-0080GN_W8X97000.dgn

PLOT DATE:2021\11\15 PLOT TIME:10:08:29 AM

GENERAL

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED
DRAWN
CHECKED
APPROVAL RECOMMENDED
APPROVAL BY

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

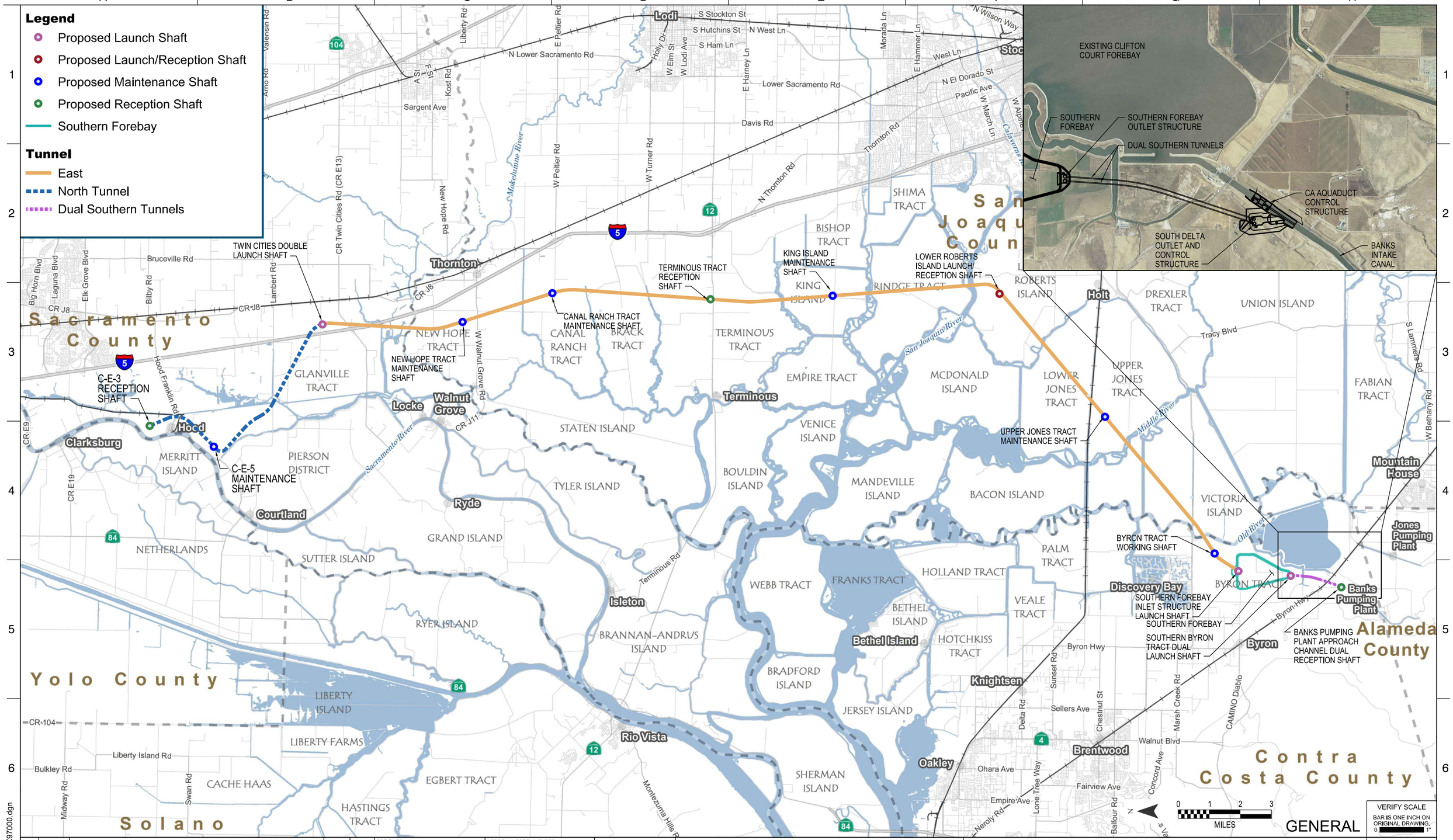
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - EASTERN CORRIDOR

PROJECT SCHEMATIC

PROJECT NO. W8X97000
SHEET NO. STE-G-0040GN
REV
SEQUENCE NO.

STE-G-0040GN_W8X97000.dgn

PLOT DATE:2021\11\15 PLOT TIME:7:18:48 AM



REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED | APPROVAL RECOMMENDED
DRAWN | APPROVAL BY
CHECKED

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DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

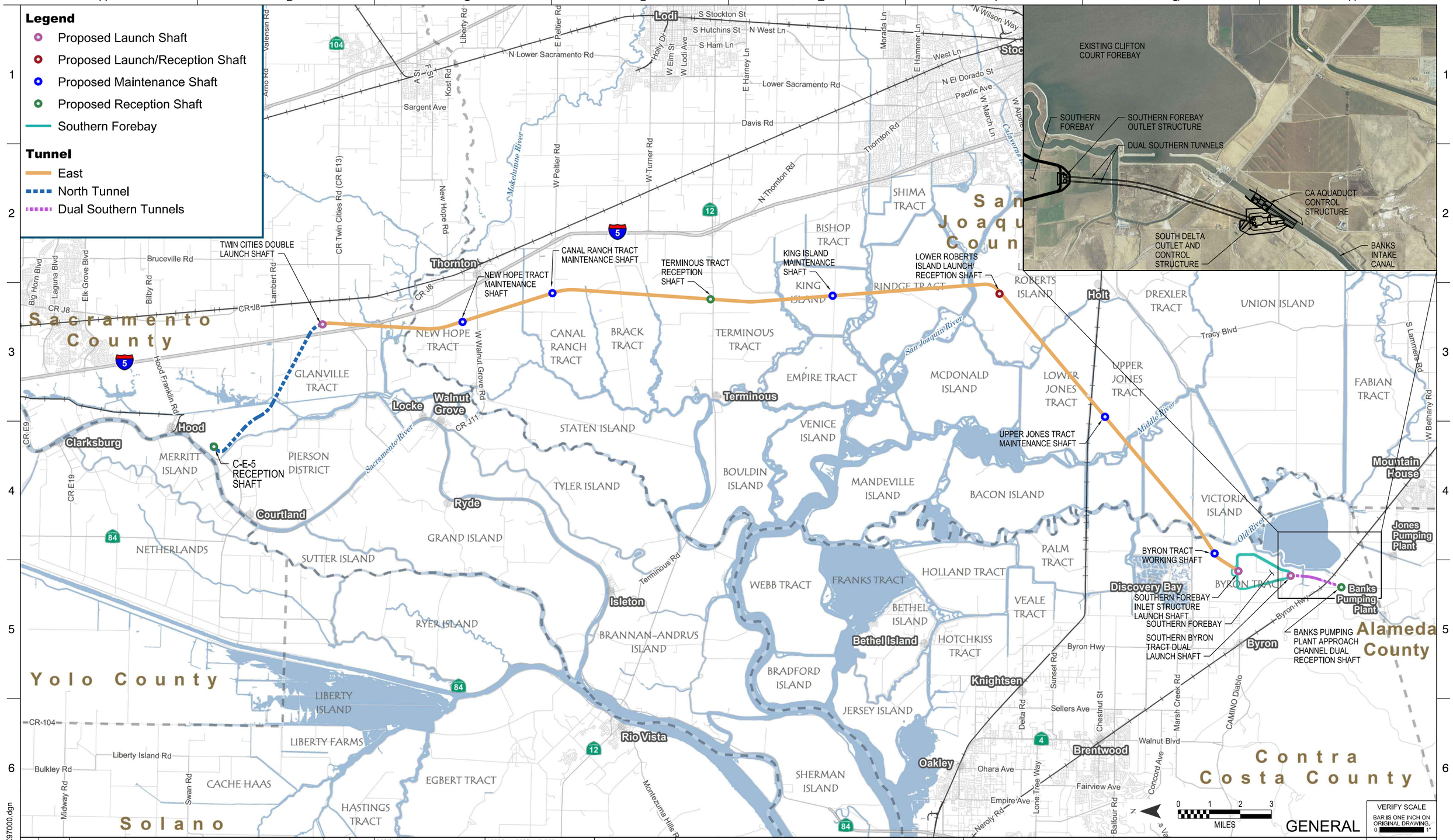
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - EASTERN CORRIDOR

CONVEYANCE OVERVIEW - OPTION 2
6,000 CFS AT INTAKES C-E-3 AND C-E-5

PROJECT NO. W8X97000
SHEET NO. STE-G-0050GN
REV | SEQUENCE NO.

STE-G-0050GN_W8X97000.dgn

PLOT DATE:2021\11\15 PLOT TIME:10:23:13 AM



REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED
DRAWN
CHECKED
APPROVAL RECOMMENDED
APPROVAL BY

DCA
DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

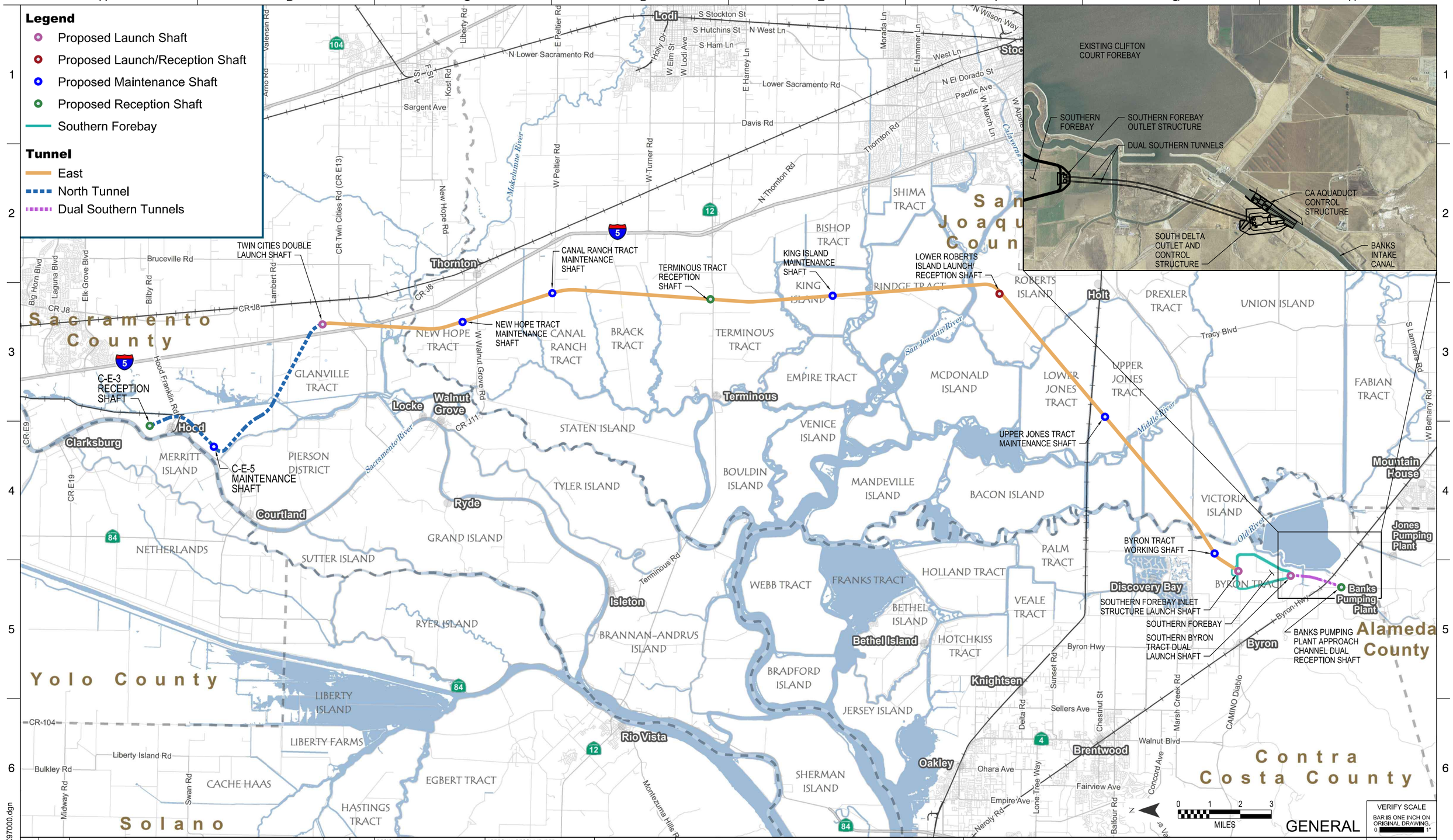
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - EASTERN CORRIDOR

CONVEYANCE OVERVIEW - OPTION 6
3,000 CFS AT INTAKE C-E-5

PROJECT NO. W8X97000
SHEET NO. STE-G-0051GN
REV
SEQUENCE NO.

STE-G-0051GN_W8X97000.dgn

PLOT DATE:2021\11\15 PLOT TIME:10:38:27 AM



REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED | APPROVAL RECOMMENDED
DRAWN | APPROVAL BY
CHECKED

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

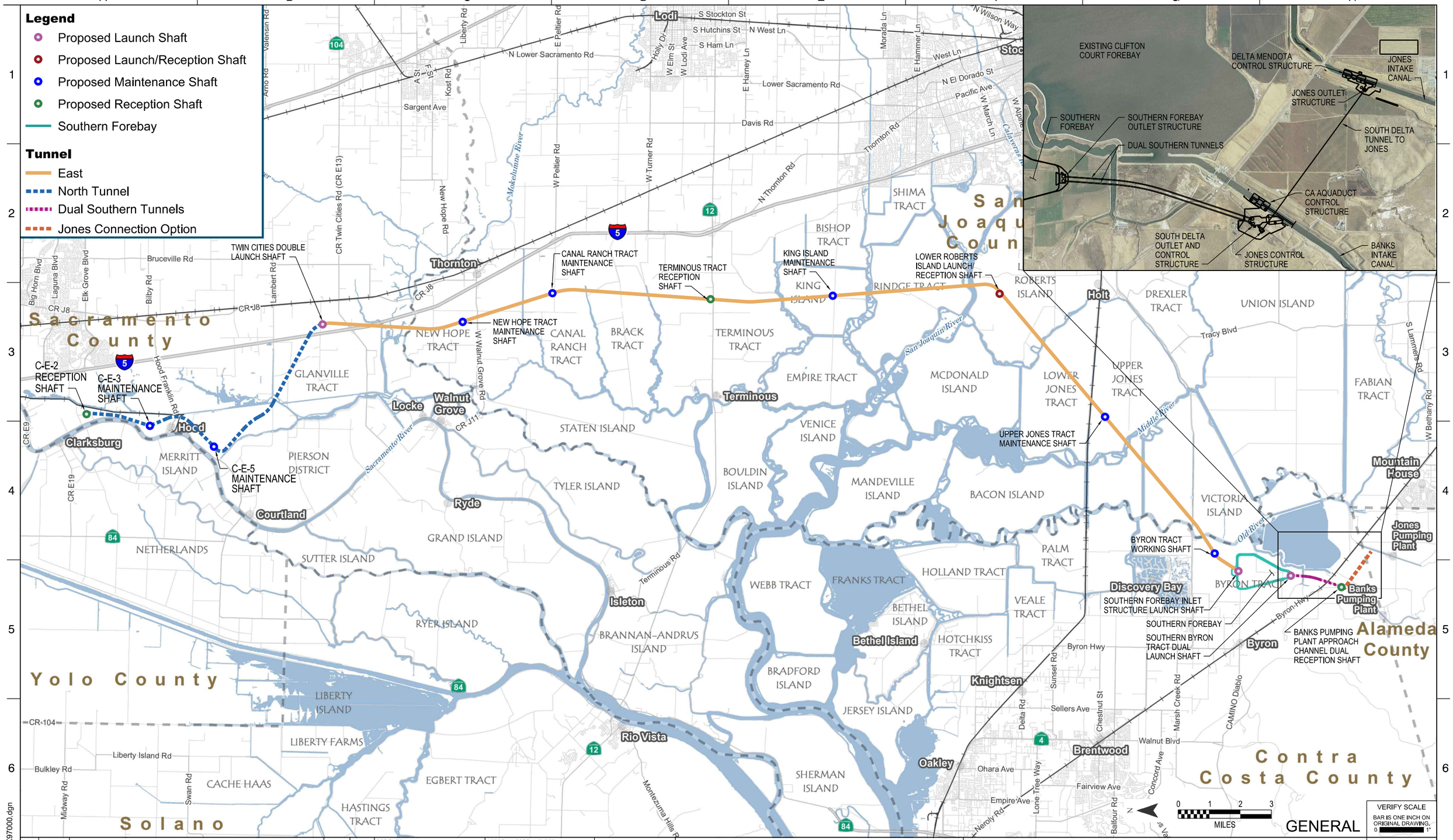
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - EASTERN CORRIDOR

CONVEYANCE OVERVIEW - OPTION 8
4,500 CFS AT INTAKES C-E-3 AND C-E-5

PROJECT NO. W8X97000
SHEET NO. STE-G-0052GN
REV | SEQUENCE NO.

STE-G-0052GN_W8X97000.dgn

PLOT DATE:2021\11\15 PLOT TIME:10:46:33 AM



REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED | APPROVAL RECOMMENDED
DRAWN | APPROVAL BY
CHECKED

DCA
DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

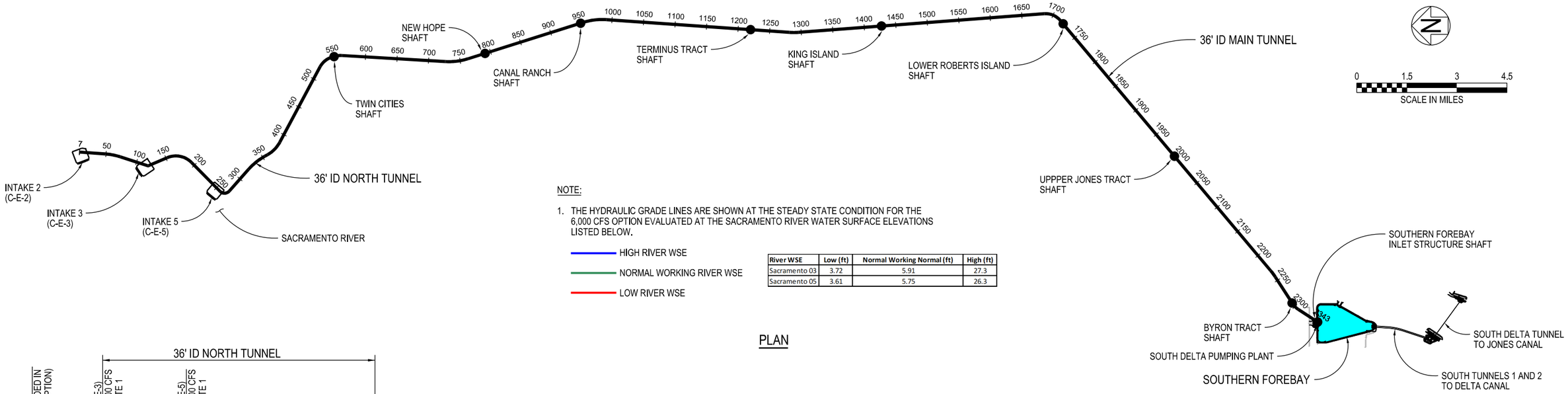
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - EASTERN CORRIDOR

CONVEYANCE OVERVIEW - OPTION 10
7,500 CFS AT INTAKES C-E-2, C-E-3, AND C-E-5

PROJECT NO. W8X97000
SHEET NO. STE-G-0053GN
REV | SEQUENCE NO.

STE-G-0053GN_W8X97000.dgn

PLOT DATE:2021\11\15 PLOT TIME:10:53:28 AM



NOTE:

1. THE HYDRAULIC GRADE LINES ARE SHOWN AT THE STEADY STATE CONDITION FOR THE 6,000 CFS OPTION EVALUATED AT THE SACRAMENTO RIVER WATER SURFACE ELEVATIONS LISTED BELOW.

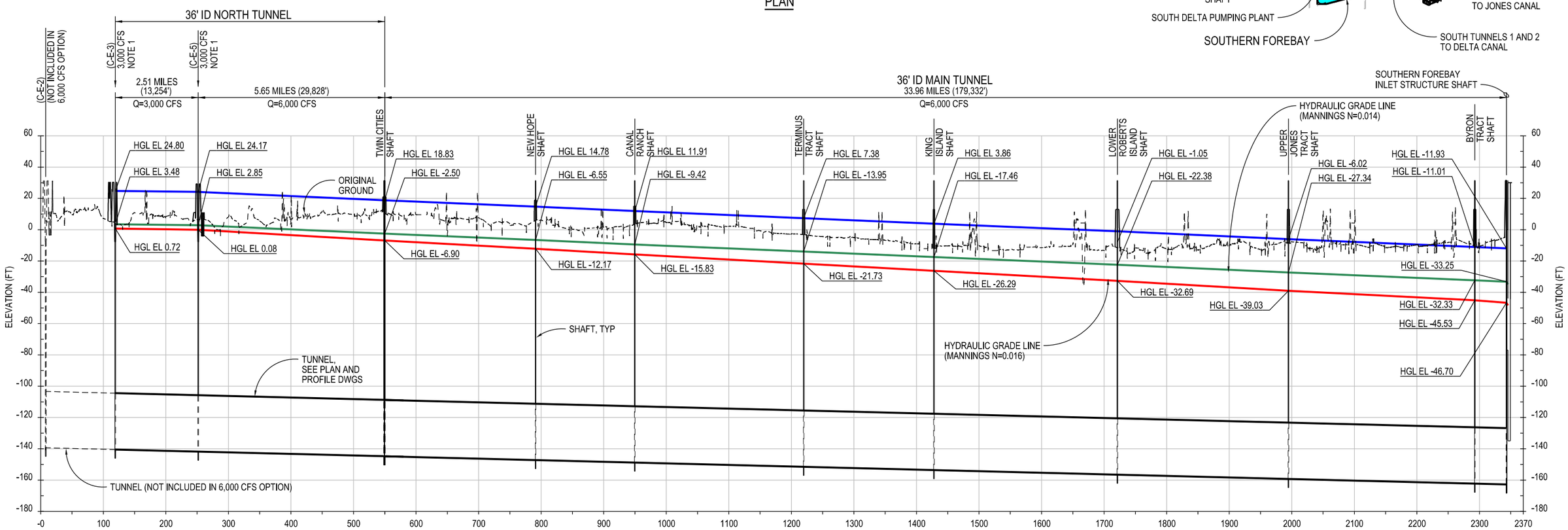
HIGH RIVER WSE

NORMAL WORKING RIVER WSE

LOW RIVER WSE

River WSE	Low (ft)	Normal Working Normal (ft)	High (ft)
Sacramento 03	3.72	5.91	27.3
Sacramento 05	3.61	5.75	26.3

PLAN



PROFILE

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: S HUSSAIN
DRAWN: B CHELONIS
CHECKED:
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - EASTERN CORRIDOR

OVERALL HYDRAULIC PLAN AND PROFILE

PROJECT NO. W8X97000
SHEET NO. STE-G-0080GN
REV
SEQUENCE NO.

STE-G-0080GN_W8X97000.dgn

PLOT DATE:2021\11\15 PLOT TIME:10:57:05 AM