PROJECT No.	SHEET No.
1344-001	C1
CADD FILE	1344001C1

JFK CAUSEWAY (79 STREET CAUSEWAY) IMPROVEMENTS PHASE I

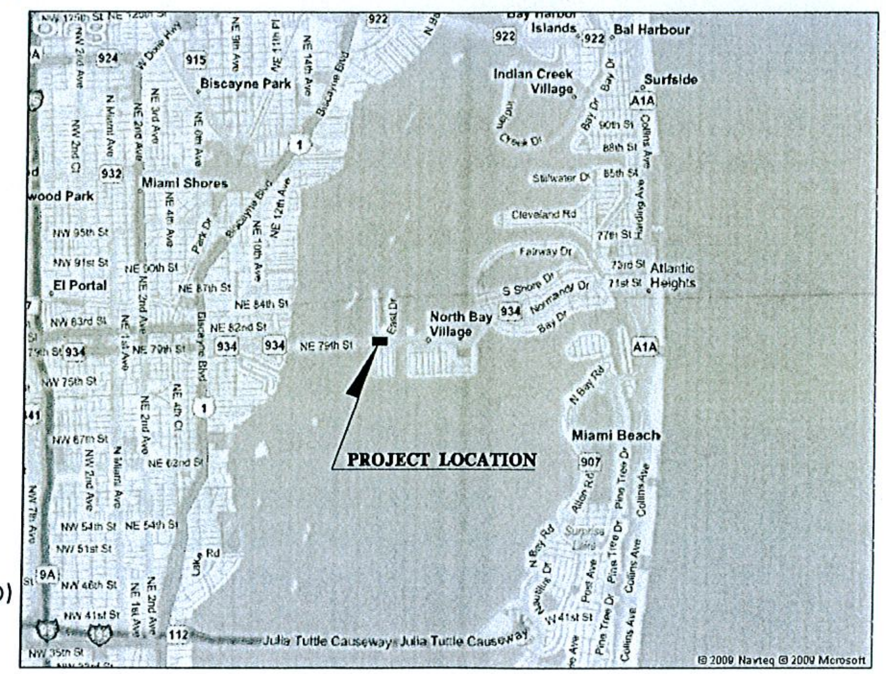
CITY OF NORTH BAY VILLAGE

2010 L 691 3

DADE COUNTY, FLORIDA

C3TS PROJECT No. 1344-001

INDEX OF SHEETS



LOCATION MAP

WORK WITHIN THE F.D.O.T. RIGHT OF WAY SHALL CONFORM TO CURRENT F.D.O.T. STANDARDS AND SPECIFICATIONS

RECEIVED PERMITS OFFICE
MAY 25 2010
DEPT OF TRANSPORTATION MIAMI, FLORIDA

MAYOR & COUNCIL:

OSCAR ALFONSO
REINALDO TRUJILLO
GEORGE A. KANE
FRANK RODRIGUEZ
Dr. PAUL VOGEL

Interim City Manager: Robert Pushking

City Attorney: JOSEPH GELLER

City Clerk: YVONNE HAMILTON

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS PARTS 1, 2 AND 3. THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS. THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (LATEST EDITION).

LANDSCAPE PLANS

APRIL, 2010

American Consulting Engineers Council Member
Supporting Excellence in Engineering

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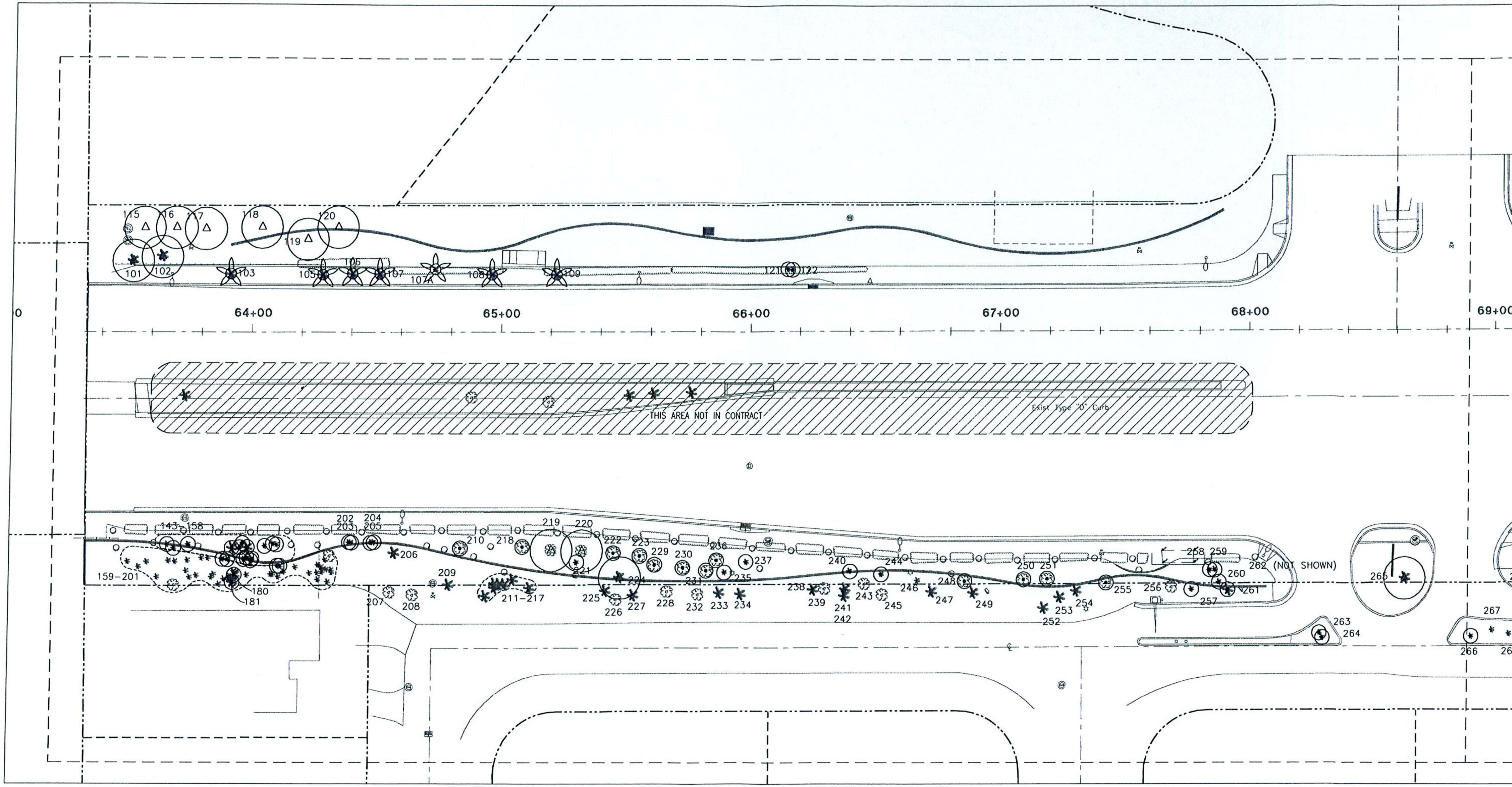
••••••••APPROVALS••••••••			
AGENCY	SUBMITTAL DATE	APPROVAL DATE	PERMIT NUMBER

CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A.
ENGINEERS · ARCHITECTS · PLANNERS
901 PONCE DE LEON BLVD., SUITE 900
CORAL GABLES, FLORIDA 33134
MIAMI (305)-445-2900 FLORIDA (800)-448-0227
FL REGISTRATIONS: EB0005022 AAC002142

APPROVED BY

CARLOS M. HERDOCIA, P.E. DATE
REGISTERED ENGINEER NO. 47660
STATE OF FLORIDA



TREE & PALM DISPOSITION LEGEND

SYMBOL	OUTCOME
	EXISTING TREES AND PALMS TO REMAIN
	EXISTING SHRUBS AND HEDGES TO BE REMOVED
101	EXISTING TREE/PALM TO BE REMOVED
101	EXISTING CABBAGE PALM TO BE RELOCATED, PLANTED, STAKED, MULCHED, WATERED AND MAINTAINED OFF-SITE.
101	EXISTING TREE OR PALM TO BE RELOCATED WITHIN PROJECT LIMITS. SEE LANDSCAPE PLAN SHEETS (LP).

TREE DISPOSITION NOTES:

1. See sheet TD-501 for tree and palm disposition table and requirement calculations table.
2. See sheet LP-101 thru 103 and LP-501 thru 502 for landscape plan, schedules, details, and notes.
3. Off-site relocations shall be coordinated with City of North Bay Village staff.
4. All tree relocation activities including root pruning, canopy pruning, transport and installation to be supervised and approved by a certified arborist.
5. Landscape contractor shall meet with Landscape Architect prior to removal and/or relocation of trees and palms.
6. Landscape contractor shall stake, irrigate and fertilize all relocated trees and palms as directed by arborist to ensure new and continued growth.
7. Landscape contractor to warranty and maintain all relocated plant material for a period of one year from the time of relocation.
8. Landscape contractor shall remove all stakes and bracing once plant material has become established.

SCALE: 1"=20'-0"

0 10 20 40

NORTH

REVISIONS	
DESCRIPTION	DATE
1. FDOT COMMENT RESPONSE	04/07/10
2. FDOT COMMENT RESPONSE 2	05/25/10
3.	
4.	

APPROVED BY:

GEORGE PUIG, RLA
LICENSED LANDSCAPE ARCHITECT NO. 1706
STATE OF FLORIDA
DATE:

EDAW | AECOM

800 Douglas Entrance
North Tower, 2nd Floor
Coral Gables, Florida 33134 USA
www.aecom.com
305.444.4691

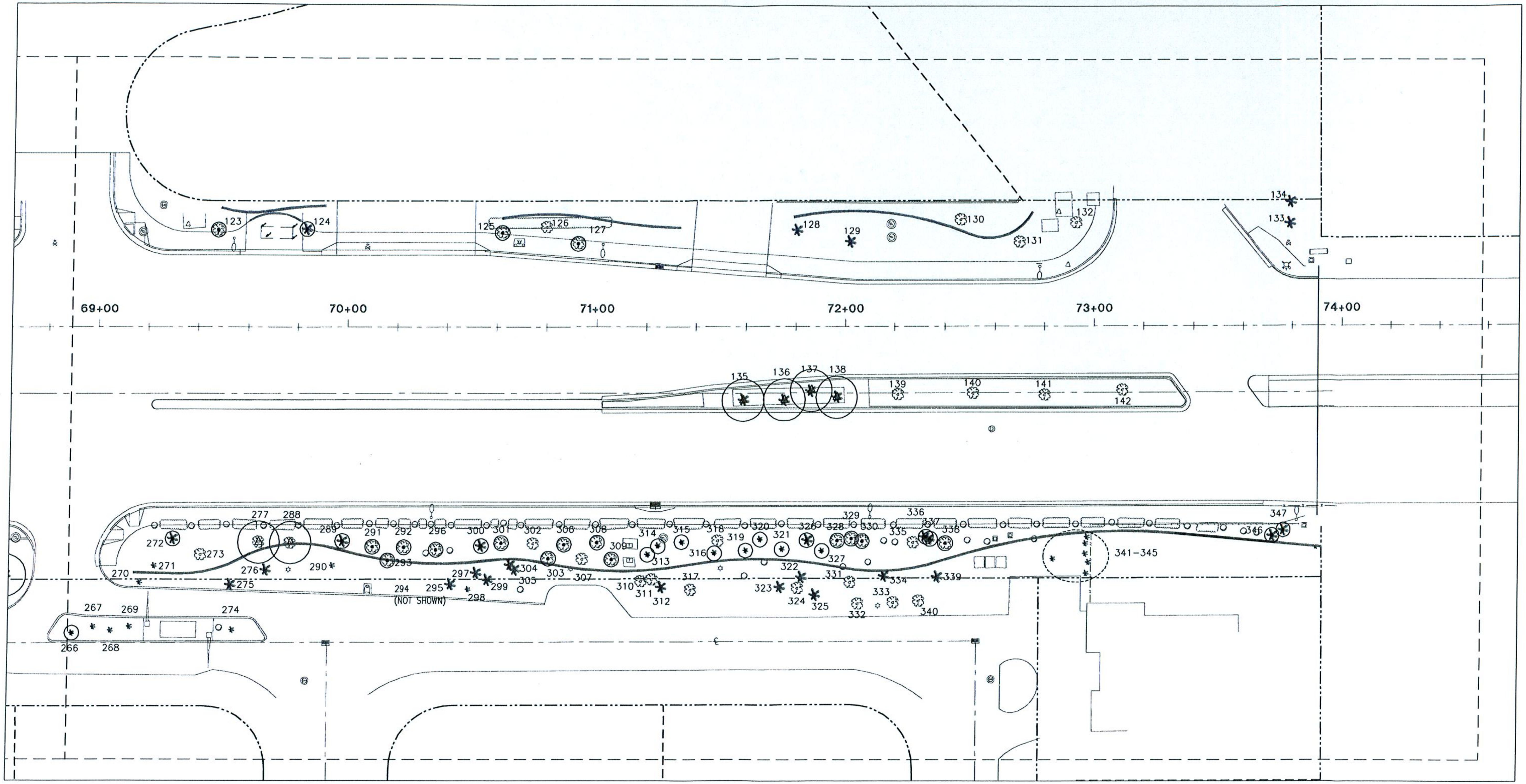
DATE:	02/01/10
DRAWN:	GO
DESIGNED:	GO
CHECKED:	GP
QC:	BD
CADD FILE:	

CITY OF NORTH BAY VILLAGE

JF KENNEDY CAUSEWAY (79 STREET CAUSEWAY) TREE DISPOSITION PLAN

09310022.01

SHEET NO. TD-101



SYMBOL	OUTCOME
	EXISTING TREES AND PALMS TO REMAIN
	EXISTING SHRUBS AND HEDGES TO BE REMOVED
101	EXISTING TREE/PALM TO BE REMOVED
101	EXISTING CABBAGE PALM TO BE RELOCATED, PLANTED, STAKED, MULCHED, WATERED AND MAINTAINED OFF-SITE.
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TREE & PALM DISPOSITION LEGEND

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NORTH

REVISIONS

DESCRIPTION	DATE
1. FDOT COMMENT RESPONSE	04/07/10
2. FDOT COMMENT RESPONSE 2	05/25/10
3.	
4.	

APPROVED BY:

GEORGE PUIG, RLA
LICENSED LANDSCAPE ARCHITECT NO. 1706
STATE OF FLORIDA
DATE:

EDAW | AECOM

800 Douglas Entrance
North Tower, 2nd Floor
Coral Gables, Florida 33134 USA
www.aecom.com
305.444.4691

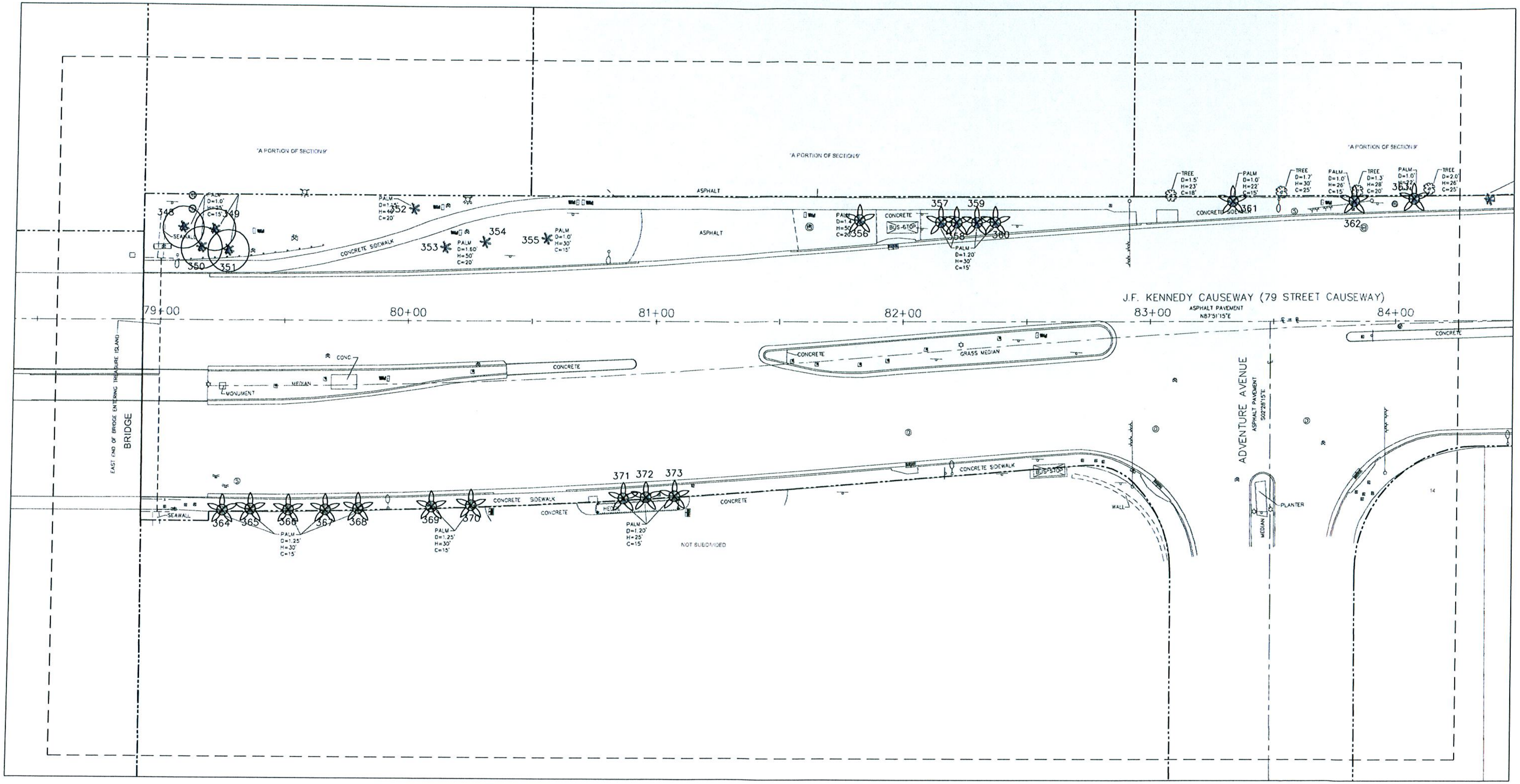
DATE:	02/01/10
DRAWN:	GO
DESIGNED:	GO
CHECKED:	GP
QC:	BD
CADD FILE:	

CITY OF NORTH BAY VILLAGE

JF KENNEDY CAUSEWAY
(79 STREET CAUSEWAY)
TREE DISPOSITION PLAN

09310022.01

SHEET NO.
TD-102



TREE & PALM DISPOSITION LEGEND	
SYMBOL	OUTCOME
	EXISTING TREES AND PALMS TO REMAIN
	EXISTING SHRUBS AND HEDGES TO BE REMOVED
101	EXISTING TREE/PALM TO BE REMOVED
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TREE DISPOSITION NOTES:

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1. FDOT COMMENT RESPONSE	04/07/10
2. FDOT COMMENT RESPONSE 2	05/25/10
3.	
4.	

APPROVED BY:

GEORGE PUIG, RLA
LICENSED LANDSCAPE ARCHITECT NO. 1706
STATE OF FLORIDA
DATE:

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QC:	BD
CADD FILE:	

CITY OF NORTH BAY VILLAGE

JF KENNEDY CAUSEWAY (79 STREET CAUSEWAY) TREE DISPOSITION PLAN

09310022.01

SHEET NO. TD-103

J.F.K. CAUSEWAY STREETSCAPE - TREE AND PALM DISPOSITION SCHEDULE

TREE No.	COMMON NAME	DBH (INCHES)	HEIGHT (FEET)	DRIP RADIUS (FEET)	DRIP SQ. FT.	DISPOSITION	CONDITION
101	COCONUT PALM	9.6	17	7	154	RELOCATE	GOOD
102	COCONUT PALM	9.6	17	7	154	RELOCATE	GOOD
103	CABBAGE PALM	14.4	20	7.5	177	REMOVE	GOOD
104	COCONUT PALM	15.6	28	8	201	RELOCATE	GOOD
105	CABBAGE PALM	14.4	17	6	113	REMOVE	GOOD
106	CABBAGE PALM	14.4	17	6	113	REMOVE	GOOD
107	CABBAGE PALM	14.4	17	6	113	REMOVE	GOOD
107A	CABBAGE PALM	14.4	17	6	113	REMOVE	GOOD
108	CABBAGE PALM	14.4	17	6.5	133	REMOVE	GOOD
109	CABBAGE PALM	14.4	17	6.5	133	REMOVE	GOOD
110	BLACK OLIVE	28.8	35	12.5	491	REMOVE	GOOD
111	BLACK OLIVE	27.6	36	14	615	REMOVE	GOOD
112	COCONUT PALM	13.2	35	9	254	RELOCATE	GOOD
113	COCONUT PALM	13.2	35	9	254	RELOCATE	GOOD
114	COCONUT PALM	13.2	35	9	254	RELOCATE	GOOD
115	COCONUT PALM (NOT SHOWN ON SURVEY)	13.2	35	9	254	RELOCATE	GOOD
116	COCONUT PALM (NOT SHOWN ON SURVEY)	13.2	35	9	254	RELOCATE	GOOD
117	COCONUT PALM (NOT SHOWN ON SURVEY)	13.2	35	9	254	RELOCATE	GOOD
118	COCONUT PALM (NOT SHOWN ON SURVEY)	13.2	35	9	254	RELOCATE	GOOD
119	COCONUT PALM (NOT SHOWN ON SURVEY)	13.2	35	9	254	RELOCATE	GOOD
120	COCONUT PALM (NOT SHOWN ON SURVEY)	13.2	35	9	254	RELOCATE	GOOD
121	CHRISTMAS PALM	8.4	13	4.5	64	REMOVE	GOOD
122	CHRISTMAS PALM	8.4	13	4.5	64	REMOVE	GOOD
123	BLACK OLIVE	28.8	60	25	1963	REMOVE	GOOD
124	UNKNOWN	12	5	2.5	20	REMOVE	GOOD
125	BLACK OLIVE	14.4	30	10	314	REMOVE	GOOD
126	BLACK OLIVE	14.4	30	10	314	REMAIN	GOOD
127	BLACK OLIVE	12	30	9	254	REMOVE	GOOD
128	COCONUT PALM	15.6	35	9	254	REMAIN	GOOD
129	COCONUT PALM	12	26	9	254	REMAIN	GOOD
130	BLACK OLIVE	15.6	30	10	314	REMAIN	GOOD
131	BLACK OLIVE	24	35	10	314	REMAIN	GOOD
132	BLACK OLIVE	18	35	10	314	REMAIN	GOOD
133	COCONUT PALM	24	35	9	254	REMAIN	GOOD
134	COCONUT PALM	24	35	9	254	REMAIN	GOOD
135	COCONUT PALM	15.6	40	10	314	RELOCATE	GOOD
136	COCONUT PALM	15.6	40	10	314	RELOCATE	GOOD
137	COCONUT PALM	15.6	40	10	314	RELOCATE	GOOD
138	COCONUT PALM	15.6	40	10	314	RELOCATE	GOOD
139	SILVER BUTTONWOOD	24	28	10	314	REMAIN	GOOD
140	SILVER BUTTONWOOD	24	28	10	314	REMAIN	GOOD
141	SILVER BUTTONWOOD	24	28	10	314	REMAIN	GOOD
142	SILVER BUTTONWOOD	24	28	10	314	REMAIN	GOOD
143	CHRISTMAS PALM	3.6	13	5	79	REMOVE	GOOD
144	CHRISTMAS PALM	3.6	10	3	28	REMOVE	GOOD
145	CHRISTMAS PALM	3.6	10	3	28	REMOVE	GOOD
146	CHRISTMAS PALM	0	0	0	0	REMOVE	DEAD
147	CHRISTMAS PALM	4.8	22	3.5	38	REMOVE	GOOD
148	CHRISTMAS PALM	4.8	16	3.5	38	REMOVE	GOOD
149	CHRISTMAS PALM	4.8	16	3.5	38	REMOVE	GOOD
150	CHRISTMAS PALM	4.8	22	3.5	38	REMOVE	GOOD
151	CHRISTMAS PALM	7.2	14	2.5	20	REMOVE	GOOD
152	CHRISTMAS PALM	3.6	13	3	28	REMOVE	GOOD
153	CHRISTMAS PALM	2.4	10	2.5	20	REMOVE	GOOD
154	CHRISTMAS PALM	2.4	10	2.5	20	REMOVE	GOOD
155	CHRISTMAS PALM	2.4	7	2.5	20	REMOVE	GOOD
156	CHRISTMAS PALM	2.4	10	5	79	REMOVE	GOOD
157	CHRISTMAS PALM				0	REMOVE	
158	CHRISTMAS PALM				0	REMOVE	
159	CHRISTMAS PALM	3.6	15	3	28	REMAIN	GOOD
160	CHRISTMAS PALM	3.6	15	3	28	REMAIN	GOOD
161	CHRISTMAS PALM	3.6	13	3	28	REMAIN	GOOD
162	CHRISTMAS PALM	3.6	18	3.5	38	REMAIN	GOOD
163	CANELA TREE	1.2	8	2	13	REMAIN	GOOD
164	CHRISTMAS PALM	3.6	18	3.5	38	REMAIN	GOOD
165	CHRISTMAS PALM	4.8	20	3.5	38	REMAIN	GOOD
166	CHRISTMAS PALM	4.8	22	4	50	REMAIN	GOOD
167	CHRISTMAS PALM	4.8	22	4	50	REMAIN	GOOD
168	CHRISTMAS PALM	4.8	20	4	50	REMAIN	GOOD
169	CHRISTMAS PALM	1.2	8	1.5	7	REMAIN	GOOD
170	CHRISTMAS PALM	3.6	18	3.5	38	REMAIN	GOOD
171	CHRISTMAS PALM	3.6	18	3.5	38	REMAIN	GOOD
172	CHRISTMAS PALM	3.6	18	3.5	38	REMAIN	GOOD
173	CHRISTMAS PALM	4.8	20	3	28	REMAIN	GOOD
174	CHRISTMAS PALM	4.8	20	3	28	REMAIN	GOOD
175	CHRISTMAS PALM	4.8	20	3	28	REMAIN	GOOD
176	CHRISTMAS PALM	4.8	20	3	28	REMAIN	GOOD
177	CHRISTMAS PALM	4.8	22	3.5	38	REMAIN	GOOD
178	CHRISTMAS PALM	4.8	16	3.5	38	REMAIN	GOOD
179	CHRISTMAS PALM	4.8	16	3.5	38	REMAIN	GOOD
180	ROYAL PALM	21.6	50	7	154	REMOVE	GOOD
181	ROYAL PALM	16.8	40	7	154	REMOVE	GOOD
182	CHRISTMAS PALM	24	22	7	154	REMOVE	GOOD
183	CHRISTMAS PALM	3.6	20	2.5	20	REMOVE	GOOD
184	CHRISTMAS PALM	6	25	4	50	REMAIN	GOOD
185	CHRISTMAS PALM	4.8	22	3	28	REMAIN	GOOD
186	CHRISTMAS PALM	4.8	24	4	50	REMAIN	GOOD
187	CHRISTMAS PALM	4.8	25	4	50	REMAIN	GOOD
188	CHRISTMAS PALM	4.8	22	3	28	REMAIN	GOOD
189	CHRISTMAS PALM	4.8	24	4	50	REMAIN	GOOD
190	CHRISTMAS PALM	4.8	25	4	50	REMAIN	GOOD
191	CHRISTMAS PALM	3.6	13	2.5	20	REMAIN	GOOD
192	CHRISTMAS PALM	4.8	20	3	28	REMAIN	GOOD
193	CHRISTMAS PALM	4.8	20	3	28	REMAIN	GOOD
194	CHRISTMAS PALM	4.8	20	3	28	REMAIN	GOOD
195	CHRISTMAS PALM	4.8	20	3	28	REMAIN	GOOD
196	CHRISTMAS PALM	4.8	20	3	28	REMAIN	GOOD
197	CHRISTMAS PALM	4.8	20	3	28	REMAIN	GOOD
198	CHRISTMAS PALM	4.8	20	3	28	REMAIN	GOOD
199	CHRISTMAS PALM	4.8	20	3	28	REMAIN	GOOD
200	CHRISTMAS PALM	4.8	20	3	28	REMAIN	GOOD
201	MANGO TREE	10.8	23	7.5	177	REMAIN	GOOD
202	CHRISTMAS PALM	12	18	6	113	REMOVE	GOOD
203	CHRISTMAS PALM	12	18	6	113	REMOVE	GOOD
204	CHRISTMAS PALM	12	18	6	113	REMOVE	GOOD
205	CHRISTMAS PALM	12	18	6	113	REMOVE	GOOD
206	CHRISTMAS PALM	3.6	10	3	28	REMAIN	GOOD
207	GUMBO LIMBO	7.2	18	7	154	REMAIN	GOOD
208	MAHOGANY TREE	7.2	22	9	254	REMAIN	GOOD
209	LATANIA PALM	4.8	10	5	79	REMAIN	GOOD
210	MAHOGANY TREE	4.8	25	6	113	REMOVE	GOOD
211	ROYAL PALM	16.8	35	7	154	REMAIN	GOOD
212	ROYAL PALM	16.8	35	7	154	REMAIN	GOOD
213	ROYAL PALM	16.8	35	7	154	REMAIN	GOOD
214	ROYAL PALM	13.2	22	5	79	REMAIN	GOOD
215	ROYAL PALM	13.2	22	5	79	REMAIN	GOOD
216	ROYAL PALM	16.8	35	8	201	REMAIN	GOOD
217	ROYAL PALM	7.2	12	7.5	177	REMAIN	GOOD
218	MAHOGANY TREE	4.8	7.5	5	79	REMOVE	GOOD
219	BULNESIA	4.8	13	6	113	RELOCATE	GOOD
220	BULNESIA	6	17	4.5	64	RELOCATE	GOOD
221	SOLITAIRE PALM	3.6	20	3.5	38	REMOVE	GOOD
222	GUMBO LIMBO	4.8	19	5	79	REMOVE	GOOD
223	GUMBO LIMBO	7.2	18	7.5	177	REMOVE	GOOD
224	CABBAGE PALM	3.6	10	5	79	RELOCATE	GOOD
225	CABBAGE PALM	9.6	22	5	79	REMAIN	GOOD
226	BOUGAINVILLEA	10.8	16	5	79	REMAIN	GOOD
227	CABBAGE PALM	3.6	8	3.5	38	REMAIN	GOOD
228	PODOCARPUS	10.8	18	5	79	REMAIN	GOOD
229	GUMBO LIMBO	3.6	10	0.25	0	REMOVE	GOOD
230	GUMBO LIMBO	3.6	13	0.4	1	REMOVE	GOOD
231	GUMBO LIMBO	8.4	12	10	314	REMOVE	GOOD
232	PODOCARPUS	13.2	40	6	113	REMAIN	GOOD
233	ROYAL PALM	7.2	22	10	314	REMAIN	GOOD
234	ROYAL PALM	6	17	5	79	REMAIN	GOOD
235	CHRISTMAS PALM	4.8	15	3.5	38	REMOVE	GOOD
236	MAHOGANY TREE	6	18	10	314	REMOVE	GOOD
237	CHRISTMAS PALM	3.6	12	3	28	REMOVE	GOOD
238	ROYAL PALM	15.6	24	5	79	REMAIN	GOOD
239	GUMBO LIMBO	4.8	13	8.5	227	REMAIN	GOOD
240	CHRISTMAS PALM	6	14	4	50	REMOVE	GOOD
241	ROYAL PALM	15.6	24	6	113	REMAIN	GOOD
242	ROYAL PALM	15.6	24	6	113	REMAIN	GOOD
243	LIGNUM VITAE	3.6	8	6	113	REMAIN	GOOD
244	CHRISTMAS PALM	6	13	3	28	REMOVE	GOOD
245	LIGNUM VITAE	3.6	8	6	113	REMAIN	GOOD
246	ALEXANDER PALM	2.4	20	3.5	38	REMAIN	GOOD
247	ROYAL PALM	18	30	6	113	REMAIN	GOOD
248	OLEANDER TREE	1.2	11	3.5	38	REMOVE	GOOD
249	ROYAL PALM	15.6	25	5	79	REMAIN	GOOD
250	MAHOGANY TREE	6	14	4	50	REMOVE	GOOD
251	MAHOGANY TREE	7.2	15	5	79	REMOVE	GOOD
252	COCONUT PALM	14.4	35	7	154	REMAIN	GOOD
253	BOTTLE PALM	12	5	3	28	REMAIN	GOOD
254	BOTTLE PALM	14.4	12	3	28	REMAIN	GOOD
255	ROYAL POINCIANA	4.8	14	3	28	REMOVE	GOOD
256	GUMBO LIMBO	12	20	0.1	0	REMAIN	GOOD
257	FISHTAIL PALM	26.4	18	6	113	REMOVE	GOOD
258	CHRISTMAS PALM	3.6	18	5	79	REMOVE	GOOD
259	ROYAL PALM	3.6	18	5	79	REMOVE	GOOD
260	FISHTAIL PALM	6	20	6	113	REMOVE	GOOD
261	ROYAL PALM	15.6	50	5	79	REMOVE	GOOD
262	ROYAL PALM (NOT SHOWN ON SURVEY)				0	REMAIN	GOOD
263	COCONUT PALM	3.6	25	3.5	38	REMOVE	GOOD
264	CHRISTMAS PALM	3.6	25	3.5	38	REMOVE	GOOD
265	BISMARK PALM	7.2	25	5	79	RELOCATE	GOOD
266	CHRISTMAS PALM	7.2	25	5	79	REMOVE	GOOD
267	CHRISTMAS PALM	7.2	25	5	79	REMAIN	GOOD
268	CHRISTMAS PALM	7.2	25	5	79	REMAIN	GOOD
269	CHRISTMAS PALM	7.2	25	5	79	REMAIN	GOOD
270	ROYAL PALM	18	35	9	254	REMAIN	GOOD
271	ROYAL PALM	18	35	9	254	REMAIN	GOOD
272	COCONUT PALM	4.8	10	3	28	REMOVE	GOOD
273	RUSTY FIG	18	22	10	314	REMAIN	GOOD
274	COCONUT PALM	7.2	17	5	79	REMAIN	GOOD
275	ROYAL PALM	18	35	9.5	283	REMAIN	GOOD
276	BISMARK PALM	14.4	14	9	254	REMAIN	GOOD
277	MAHOGANY TREE	4.8	18	7	154	RELOCATE	GOOD
278-287	NOT USED						
288	BULNESIA	4.8	20	9	254	RELOCATE	GOOD
289	COCONUT PALM	12	14	9	254	REMOVE	GOOD
290	RECLINATA	48	20	10	314	REMAIN	GOOD
291	BULNESIA	7.2	16	5	79	REMOVE	GOOD
292	MAHOGANY TREE	6	25	6	113	REMOVE	GOOD
293	BULNESIA	3.6	14	5	79	REMOVE	GOOD
294	ROYAL PALM (NOT SHOWN ON SURVEY)				0	REMAIN	GOOD
295	COCONUT PALM	6	15	10	314	REMAIN	GOOD
296	HONG KONG ORCHID	18	24	9	254	REMOVE	GOOD
297	THRINAX PALM	7.2	7	3	28	REMAIN	GOOD
298	ALEXANDER PALM	4.8	16	3.5	38	REMAIN	GOOD
299	LATANIA PALM	9.6	7	4	50	REMAIN	GOOD
300	COCONUT PALM	7.2	10	5	79	REMOVE	GOOD
301	MAHOGANY TREE	4.8	15	5	79	REMOVE	GOOD
302	GUMBO LIMBO	7.2	17	5	79	REMAIN	GOOD
303	GUMBO LIMBO	6	18	5	79	REMOVE	GOOD
304	PINDO PALM	14.4	13	5	79	REMAIN	GOOD
305	ROYAL PALM	16.8	34	7.5	177	REMAIN	GOOD
306	GUMBO LIMBO	6	18	5	79	REMOVE	GOOD
307	BULNESIA	8.4	22	10	314	REMAIN	GOOD
308	GUMBO LIMBO	4.8	14	5	79	REMOVE	GOOD
309	GUMBO LIMBO	4.8	12	5	79	REMOVE	GOOD
310	SILVER BUTTONWOOD	3.6	14	6	113	REMAIN	GOOD
311	SILVER BUTTONWOOD	3.6	14	6	113	REMAIN	GOOD
312	ROYAL PALM	16.8	50	7.5	177	REMAIN	GOOD
313	CHRISTMAS PALM	6	14	4	50	REMOVE	GOOD
314	ALEXANDER PALM	3.6	8	2.5	20	REMOVE	GOOD
315	ALEXANDER PALM	2.4	14	5	79	REMOVE	GOOD
316	SOLITAIRE PALM	3.6	25	5	79	REMOVE	GOOD
317	SCREW PINE	7.2	15	7.5	177	REMAIN	GOOD
318	STRANGLER FIG	26.4	25	10	314	REMAIN	GOOD
319	ARECA PALM	4.8	18	3.5	38	REMAIN	GOOD
320	VEITCHIA PALM (NO SURVEY INFORMATION)				0	REMOVE	GOOD
321	SOLITAIRE PALM	3.6	20	5	79	REMOVE	GOOD
322	SABAL PALM	10.8	22	5	79	REMAIN	GOOD
323	SABAL PALM	8.4	22	5	79	REMAIN	GOOD
324	BOUGAINVILLEA	2.4	8	5	79	REMAIN	GOOD
325	SABAL PALM	8.4	14	3.5	38	REMAIN	GOOD
326	EUROPEAN FAN PALM	3.6	8	5	79	REMOVE	GOOD
327	CHRISTMAS PALM	6	15	4	50	REMOVE	GOOD
328	YELLOW TABEBUIA	4.8	13	5	79	REMOVE	GOOD
329	BOUGAINVILLEA	2.4	10	2.5	20	REMOVE	GOOD
330	YELLOW TABEBUIA	6	15	5	79	REMOVE	GOOD
331	GUMBO LIMBO	3.6	8	3	28	REMAIN	GOOD
332	GUMBO LIMBO	3.6	8	3	28	REMAIN	GOOD
333	GUMBO LIMBO	1.2	8	1.5	7	REMAIN	GOOD
334	COCONUT PALM	1.2	8	1.5	7	REMAIN	GOOD
335	MAHOGANY TREE	10.8	22	10	314	REMAIN	GOOD
336	PINDO PALM	6	10	5	79	REMOVE	GOOD
337	PINDO PALM	6	10	5	79	REMOVE	GOOD
338	MAHOGANY TREE	4.8	16	10	314	REMOVE	GOOD
339	COCONUT PALM	9.6	18	10	314	REMAIN	GOOD
340	GUMBO LIMBO	1.2	8	1.5	7	REMAIN	GOOD
341	SOLITAIRE PALM	24	14	4	50	REMAIN	GOOD
342	ARECA PALM	24	14	4	50	REMAIN	GOOD
343	ARECA PALM	24	14	4	50	REMAIN	GOOD
344	ARECA PALM	24	14	4	50	REMAIN	GOOD
345	ARECA PALM	24	14	4	50	REMAIN	GOOD
346	ARECA PALM	14.4	35	10	314	REMOVE	GOOD
347	ARECA PALM	14.4	35	10	314	REMOVE	GOOD
348	COCONUT PALM	12	25	7.5	177	RELOCATE	GOOD
349	COCONUT PALM	12	25	7.5	177	RELOCATE	GOOD
350	COCONUT PALM	12	25	7.5	177	RELOCATE	GOOD
351	COCONUT PALM	12	25	7.5	177	RELOCATE	GOOD
352	COCONUT PALM	13.8	40	10	314	REMAIN	GOOD
353	COCONUT PALM	19.2	50	10	314	REMAIN	GOOD
354	COCONUT PALM	19.2	50	10	314	REMAIN	GOOD
355	COCONUT PALM	12	30	7.5	177	REMAIN	GOOD
356	CABBAGE PALM	16.8	50	10	314	REMOVE	GOOD
357	CABBAGE PALM	14.4	30	7.5	177	REMOVE	GOOD
358	CABBAGE PALM	14.4	30	7.5	177	REMOVE	GOOD
359	CABBAGE PALM	14.4	30	7.5	177	REMOVE	GOOD
360	CABBAGE PALM	14.4	30	7.5	177	REMOVE	GOOD
361	CABBAGE PALM	12	22	7.5	177	REMOVE	GOOD
362	CABBAGE PALM	12	26	7.5	177	REMOVE	GOOD
363	CABBAGE PALM	12	22	7	154	REMOVE	GOOD
364	CABBAGE PALM	15	30	7.5	177	REMOVE	GOOD
365	CABBAGE PALM	15	30	7.5	177	REMOVE	GOOD
366	CABBAGE PALM	15	30	7.5	177	REMOVE	GOOD
367	CABBAGE PALM	15	30	7.5	177	REMOVE	GOOD
368	CABBAGE PALM	15	30	7.5	177	REMOVE	GOOD
369	CABBAGE PALM	15	30	7.5	177	REMOVE	GOOD
370	CABBAGE PALM	15	30	7.5	177	REMOVE	GOOD
371	CABBAGE PALM	14.4	25	7.5	177	REMOVE	GOOD
372	CABBAGE PALM	14.4	25	7.5	177	REMOVE	GOOD
373	CABBAGE PALM	14.4	25	7.5	177	REMOVE	GOOD

LEGEND

5502	SQUARE FEET OF CANOPY FOR RELOCATION
14438	TOTAL SQUARE FEET OF CANOPY FOR REMOVAL
14839	TOTAL SQUARE FEET OF CANOPY TO REMAIN
34779	TOTAL SQUARE FEET OF CANOPY ON SITE

J.F.K. CAUSEWAY STREETSCAPE - TREE DISPOSITION REQUIREMENT CALCULATIONS

IF YOU PLANT A:	WITH MIN. SIZE OF:	CREDITS EARNED IN SQ.FT.	PLANT MATERIAL ADDED	CREDITS EARNED IN SQ.FT.
HARDWOOD TREE	12' OVERALL HEIGHT	500	58	29,000
HARDWOOD TREE	8' OVERALL HEIGHT	300	12	3,600
PALM	10' CLEAR TRUNK	300	64	19,200
PALM	3' CLEAR TRUNK	100	23	2,300
SMALL TREE	6' OVERALL HEIGHT	200	3	600
			TOTAL CANOPY ADDED (SQ.FT.)	54,700
			TOTAL CANOPY NEEDED (SQ.FT.)	14,311
			TREE CANOPY SURPLUS (SQ. FT.)	40,389

REVISIONS

DESCRIPTION	DATE
1. FDOT COMMENT RESPONSE	04/07/10
2. FDOT COMMENT RESPONSE 2	05/25/10
3.	
4.	

APPROVED BY:
GEORGE PUIG, RLA
LICENSED LANDSCAPE ARCHITECT NO. 1706
STATE OF FLORIDA
DATE:

EDAW | AECOM

800 Douglas Entrance
North Tower, 2nd Floor
Coral Gables, Florida 33134 USA
www.aecom.com
305.444.4691

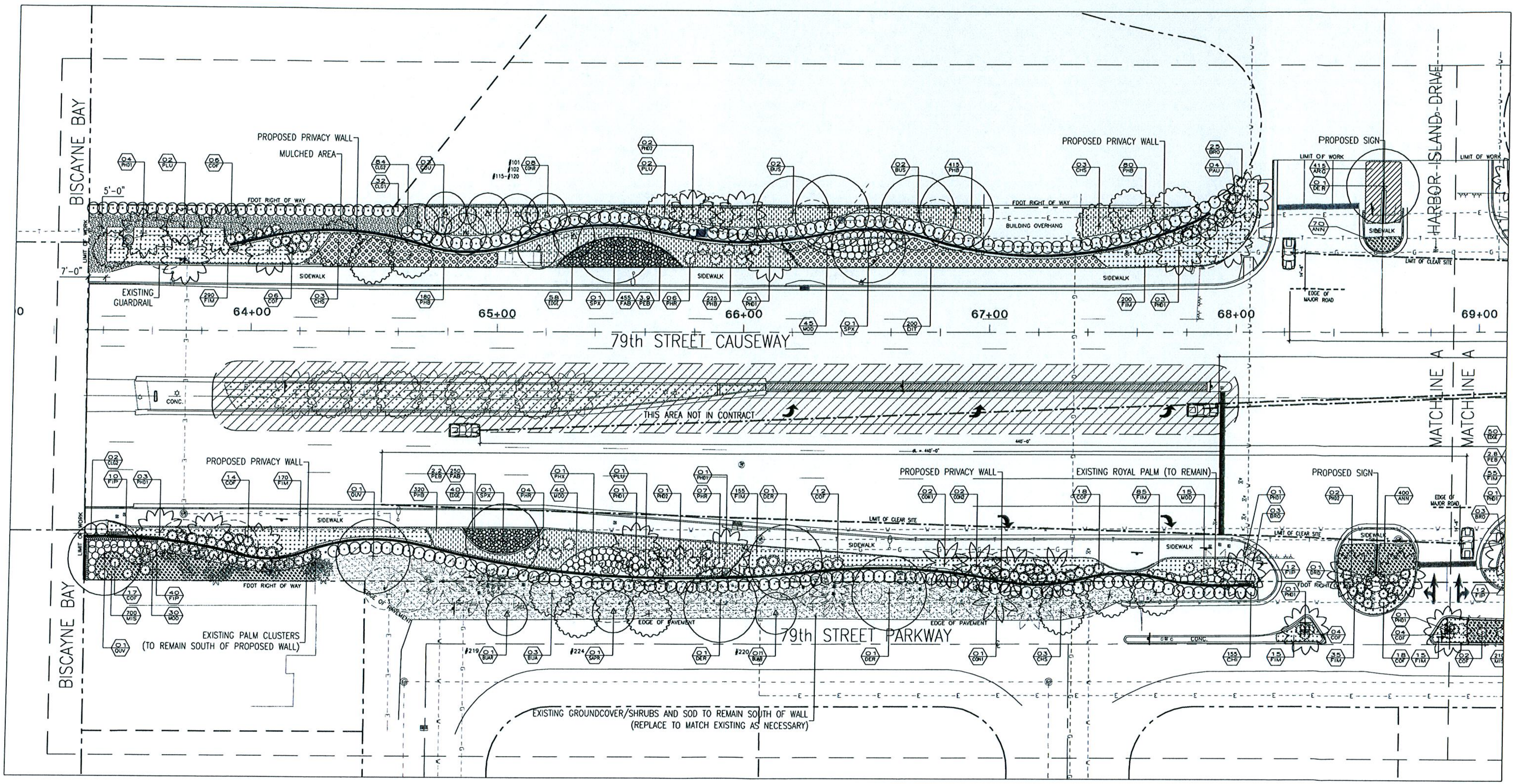
DATE: 02/01/10
DRAWN: GO
DESIGNED: GO
CHECKED: GP
QC: BD
CADD FILE:

CITY OF NORTH BAY VILLAGE

JF KENNEDY CAUSEWAY (79 STREET CAUSEWAY) TREE DISPOSITION SCHEDULE

09310022.01

SHEET NO. TD-501



PLANT LEGEND

03 PHD — quantity, species

- Medjool Date Palm
- Flowering Tree
- Accent Tree
- Coconut Palm
- Shade Tree
- Relocated Tree/Palm
- Existing Tree (to remain)
- Existing Palm (to remain)
- Groundcover
- Accent Plants
- Sod
- Shrubs
- Pebbles
- Large Shrubs
- Mulch bed

SCALE: 1"=20'-0"

0 10 20 40

NORTH

RECEIVED PERMITS OFFICE JUN 09 2010 DEPT OF TRANSPORTATION MIAMI, FLORIDA

REVISIONS	
DESCRIPTION	DATE
1. FDOT COMMENT RESPONSE	04/07/10
2. FDOT COMMENT RESPONSE 2	05/25/10
3. FDOT COMMENT RESPONSE 3	06/04/10

APPROVED BY:

GEORGE PUIG, RLA
LICENSED LANDSCAPE ARCHITECT NO. 1706
STATE OF FLORIDA
DATE:

EDAW | AECOM

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Coral Gables, Florida 33134 USA
www.aecom.com
305.444.4691

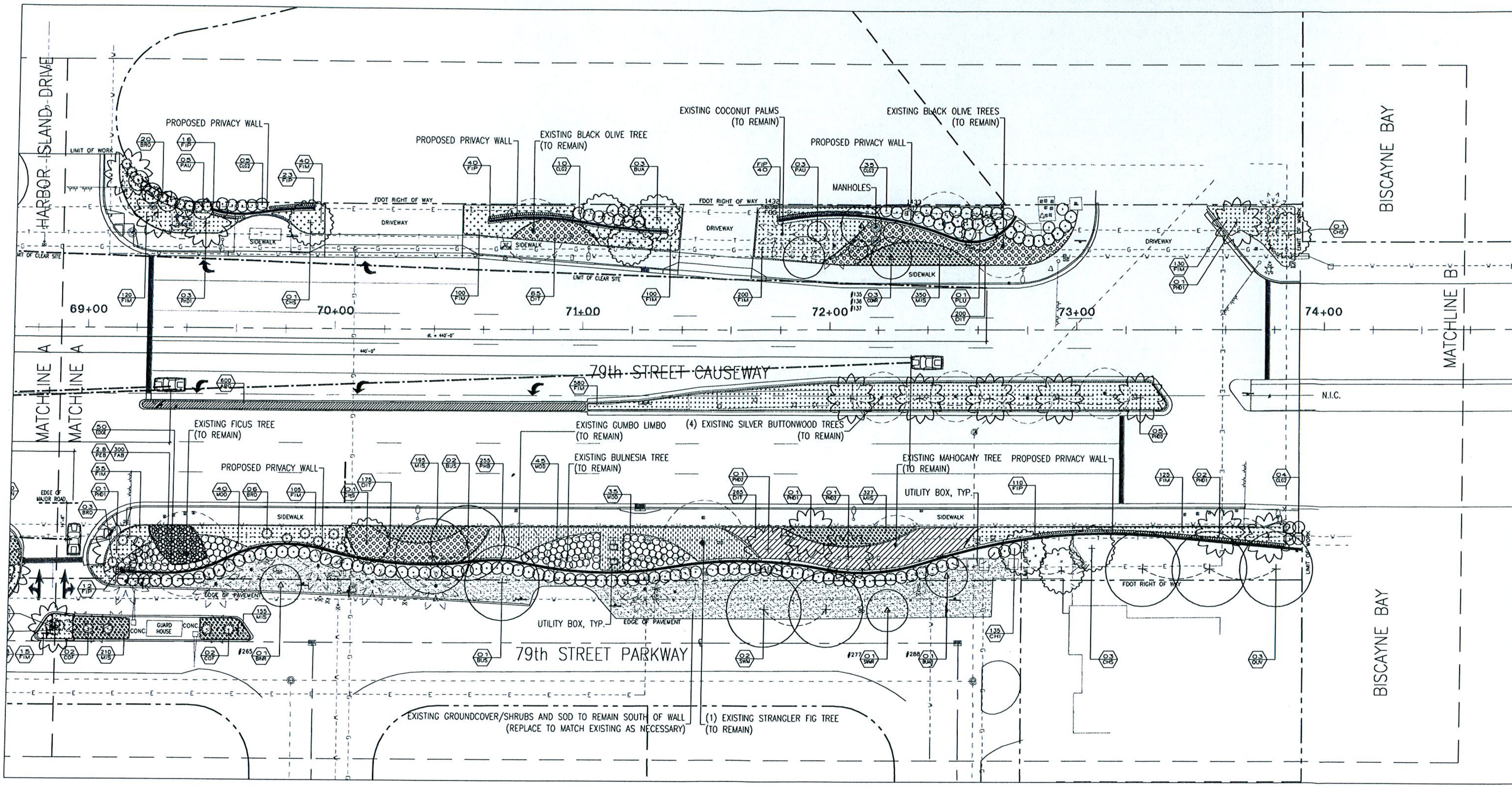
DATE:	02/01/10
DRAWN:	GO
DESIGNED:	GO
CHECKED:	GP
QC:	BD
CADD FILE	

CITY OF NORTH BAY VILLAGE

JF KENNEDY CAUSEWAY
(79 STREET CAUSEWAY)
PLANTING PLAN

09310022.01

SHEET NO.
LP-101



PLANT LEGEND

03 PHD quantity species	Medjool Date Palm	Flowering Tree
	Accent Tree	Coconut Palm
	Shade Tree	Relocated Tree/Palm
	Existing Tree (to remain)	Existing Palm (to remain)
	Groundcover	Shrubs
	Large Shrubs	Accent Plants
	Pebbles	Mulch bed
	Sod	

SCALE: 1"=20'-0"

0 10 20 40

NORTH

REVISIONS	
DESCRIPTION	DATE
1. FDOT COMMENT RESPONSE	04/07/10
2. FDOT COMMENT RESPONSE 2	05/25/10
3. FDOT COMMENT RESPONSE 3	06/04/10

APPROVED BY:

GEORGE PUIG, RLA
LICENSED LANDSCAPE ARCHITECT NO. 706
STATE OF FLORIDA
DATE:

EDAW | AECOM

800 Douglas Entrance
North Tower, 2nd Floor
Coral Gables, Florida 33134 USA
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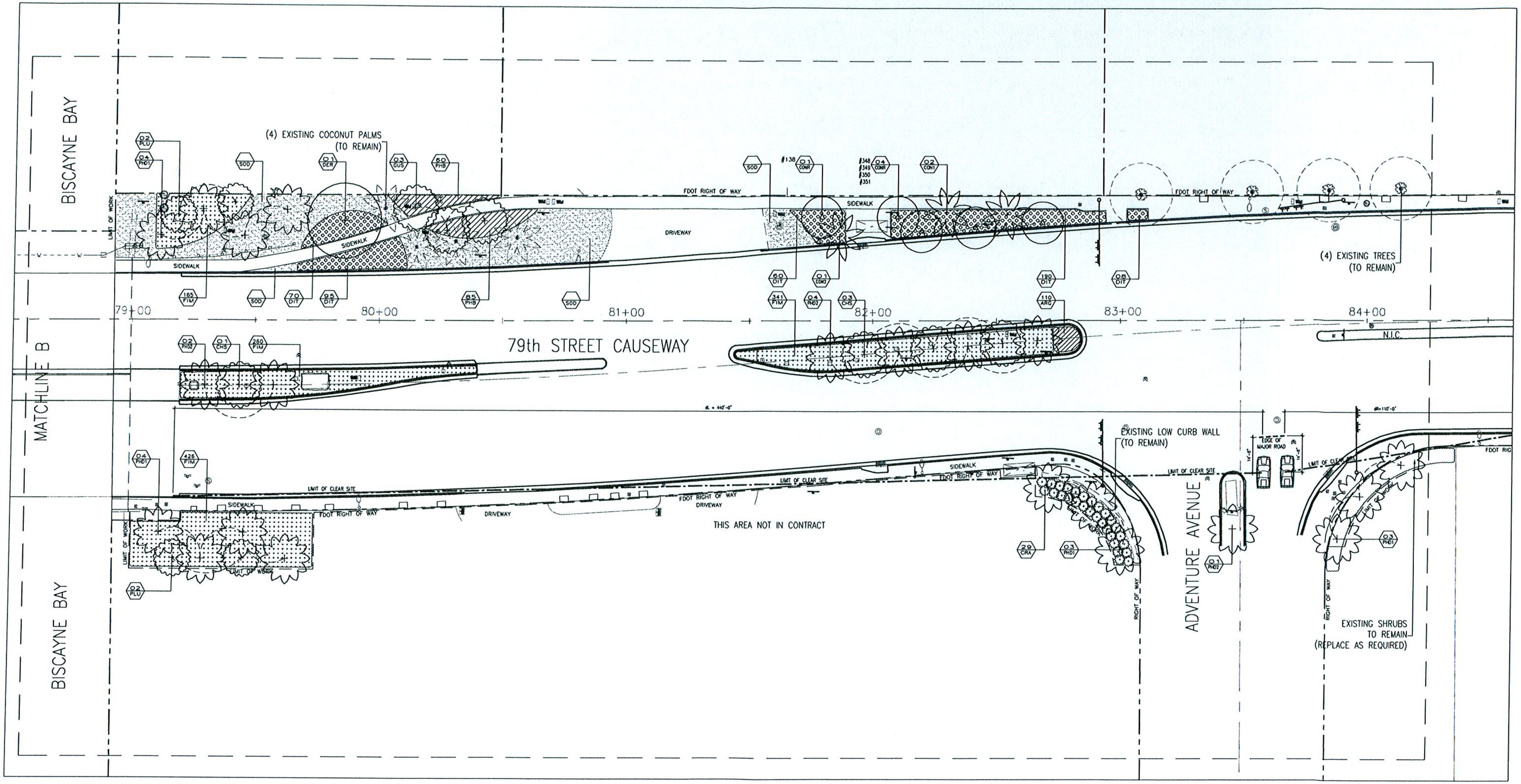
DATE:	02/01/10
DRAWN:	GO
DESIGNED:	GO
CHECKED:	GP
QC:	BD

CITY OF NORTH BAY VILLAGE

JF KENNEDY CAUSEWAY
(79 STREET CAUSEWAY)
PLANTING PLAN

09310022.01

SHEET NO.
LP-102



PLANT LEGEND

03 PHD — quantity, species

Medjool Date Palm — Flowering Tree — Accent Tree

Coconut Palm — Shade Tree — Relocated Tree/Palm

Existing Tree (to remain)

Existing Palm (to remain)

Groundcover — Accent Plants — Sod

Shrubs — Pebbles

Large Shrubs — Mulch bed

SCALE: 1"=20'-0"

0 10 20 40

NORTH

REVISIONS	
DESCRIPTION	DATE
1. FDOT COMMENT RESPONSE	04/07/10
2. FDOT COMMENT RESPONSE 2	05/25/10
3. FDOT COMMENT RESPONSE 3	06/04/10

APPROVED BY:
GEORGE PUIG, RLA
LICENSED LANDSCAPE ARCHITECT NO. 1706
STATE OF FLORIDA
DATE:

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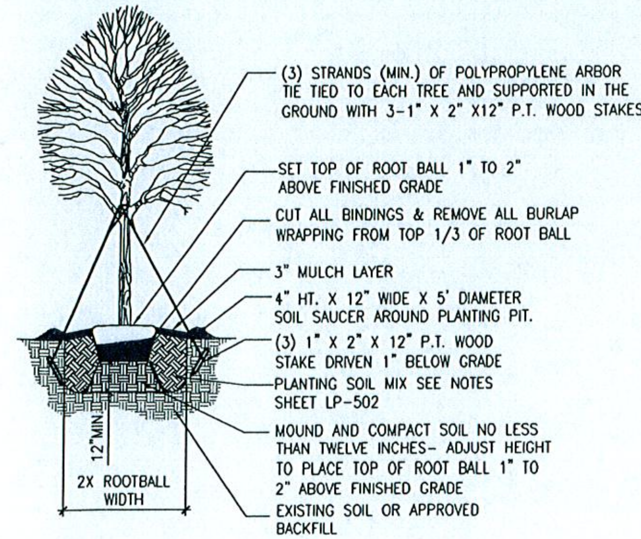
QC:	BD

CITY OF NORTH BAY VILLAGE

JF KENNEDY CAUSEWAY (79 STREET CAUSEWAY) PLANTING PLAN

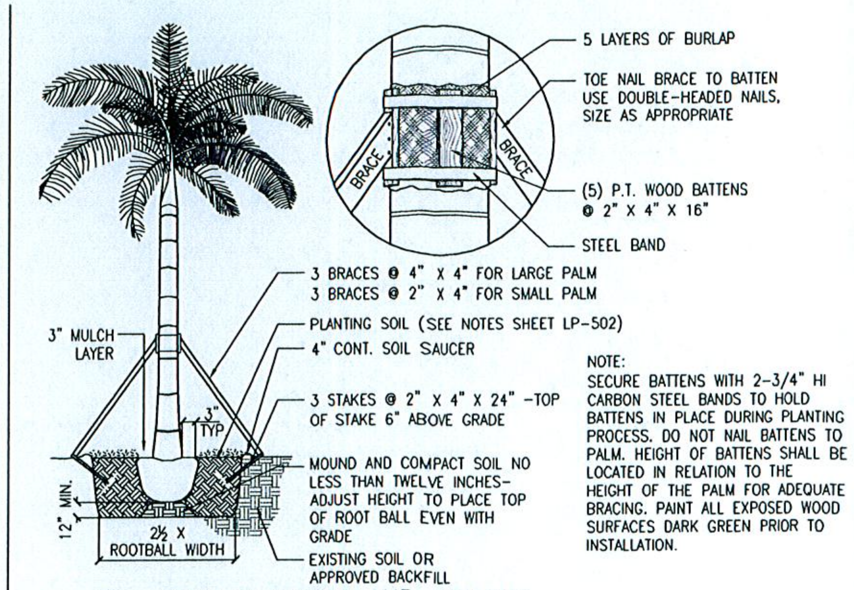
09310022.01

SHEET NO. LP-103



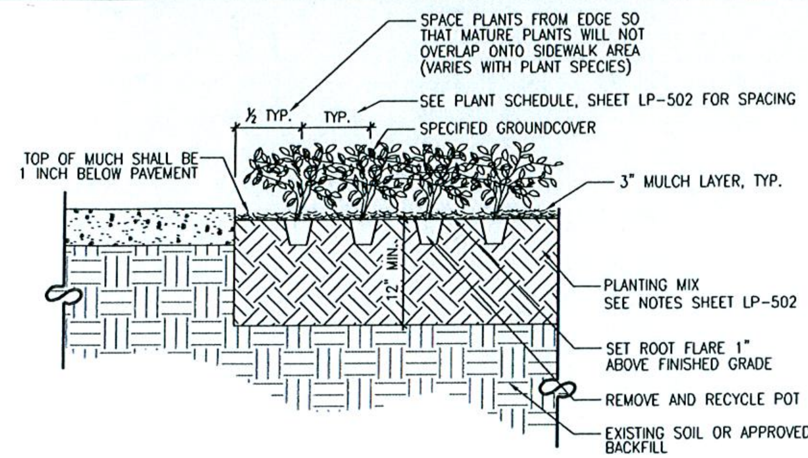
1 TREE PLANTING AND STAKING

SCALE: 1/4"=1'-0" DT-tree.dwg



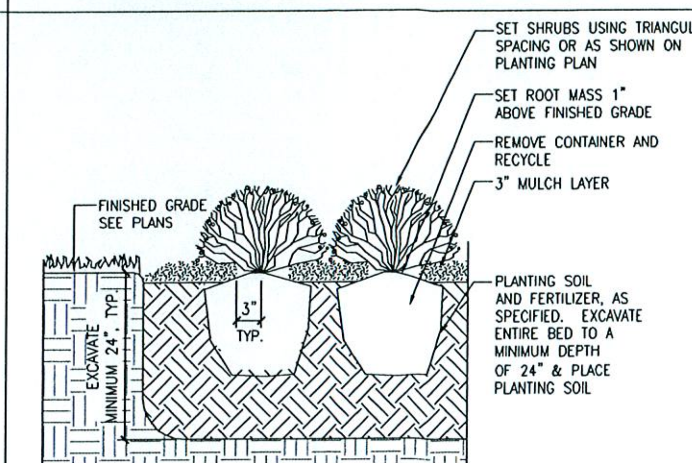
2 PALM PLANTING AND STAKING

SCALE: N.T.S. DT-palm.dwg



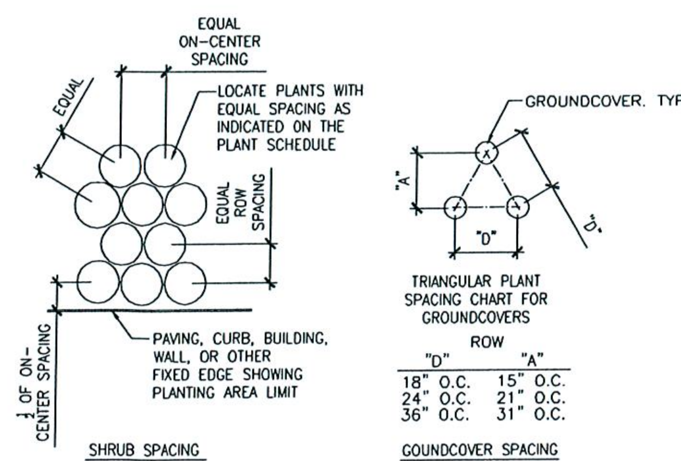
3 GROUNDCOVER PLANTING AT HARDSCAPE

SCALE: NTS DT-planting edge



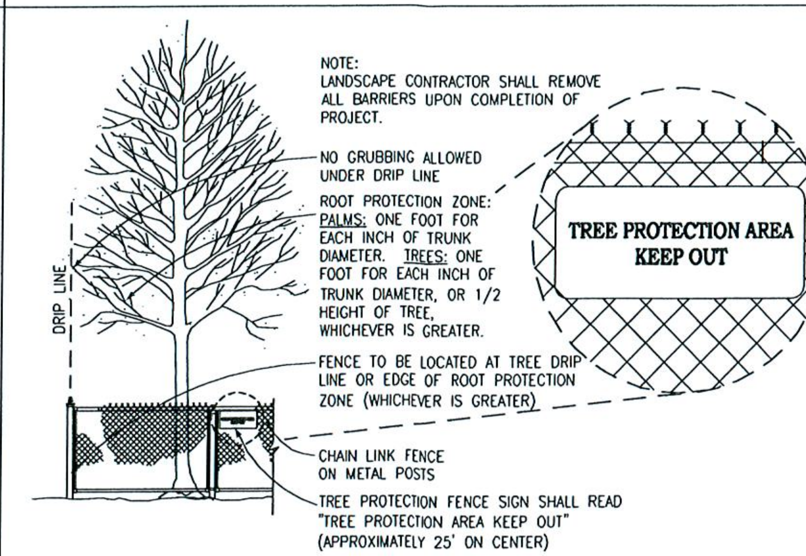
4 SHRUB PLANTING

SCALE: N.T.S. DT-shrub.dwg



5 PLANT SPACING

SCALE: Nts DT-plantspace-MB.dwg



6 EXISTING TREE AND PALM PROTECTION FENCING

SCALE: N.T.S. DT-tree-palm prot.dwg

REVISIONS	
DESCRIPTION	DATE
1. FDOT COMMENT RESPONSE	04/07/10
2. FDOT COMMENT RESPONSE 2	05/25/10
3.	
4.	

APPROVED BY:
GEORGE PUIG, RLA
LICENSED LANDSCAPE ARCHITECT NO. 1706
STATE OF FLORIDA
DATE:

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DATE:	02/01/10
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QC:	BD
CADD FILE:	

CITY OF NORTH BAY VILLAGE

JF KENNEDY CAUSEWAY (79 STREET CAUSEWAY) PLANTING DETAILS

09310022.01

SHEET NO.
LP-501

PLANTING NOTES:

1. The Landscape Contractor shall be responsible for any coordination with the General Contractor and any other subcontractors as required to accomplish his planting operations.

2. Planting Soil: '3000 Mix'. Sod Soil: '50/50 Mix', both as available through Atlas Peat & Soil (561) 734-7300 or Landscape Architect approved equal. All groundcover bed areas shall have a 12 inch minimum depth of planting soil, all shrub bed areas shall have a 24 inch minimum depth of planting soil and all sodded areas shall have a 4 inch minimum depth of sod soil. See planting schedule, Sheet LP-502 for groundcover and shrub classifications. Landscape Contractor shall excavate and remove existing fill material as required.

3. Root and canopy pruning of existing trees and palms to remain in place, shall occur as required adjacent to construction activity, under the supervision of a certified arborist.

4. "DIEHARD Transplant" amendment and water management gel shall be used on all new landscape and as a transplant preparation to inoculate landscape trees and palms when planting. "DIEHARD Transplant" as available from Horticultural Alliance (800) 628-6373 or Landscape Architect approved equal.

5. Organic Mulch: Organic mulch, free from deleterious materials and suitable as a top dressing of palms and shrubs, consisting of Grade A Eucalyptus, clean, bright and free of weeds, moss, sticks, and other debris.

6. Provide quality, size, genus, species, and variety of palms and groundcovers indicated, complying with applicable requirements of the Florida Department of Agriculture and Consumer Services. Division of Plant Industry, Gainesville, "Grades and Standards for Nursery Plants, Part I," and Grades and Standards for Nursery Plants, Part II Palms and Trees" and with South Florida Water Management District restrictions.

7. Landscape Contractor shall electronically submit legible .jpg or .pdf photos of trees, palms, accent plants, shrubs and groundcover indicating quality and size to landscape architect for review and approval prior to procurement and/or installation. Landscape Contractor shall also submit pebble samples for Landscape Architects review and approval.

8. The Landscape Contractor is to receive the on-grade portion of the site at one-half (±½) of an inch. The Landscape Contractor shall obtain a letter of grade certification from the Construction manager prior to beginning work.

9. Final location of all plant materials shall be subject to the approval of the Landscape Architect prior to digging any holes. Landscape Contractor is to do the following before beginning planting operations: Groundcovers - lay out the actual containers on-site before digging holes. Palms - chalk or stake the locations before digging holes. Any tree planted without its final location approved by the Landscape Architect may be requested to be relocated at the sole expense of the Landscape Contractor.

10. The Landscape Contractor shall notify the Landscape Architect at least 72 hours in advance prior to commencement of work to coordinate project observation schedules.

11. If conflicts arise between the actual size of areas on the site and the Drawings, contact the Landscape Architect for resolution.

12. It is the Landscape Contractor's responsibility to furnish plant material free of pests or plant diseases. Pre-selected or "Landscape Architect - tagged" plant material must be inspected by the Landscape Contractor and certified pest and disease free. It is the Landscape Contractor's obligation to warranty all plant material per the plans, notes and details.

13. Groundcovers and shrubs are to be triangularly spaced unless indicated on the Drawings.

14. All trees within a species shall have matching form, unless noted otherwise on the Planting Plan.

15 All groundcover and shrub areas (excluding sod areas) are to be mulched refer to the Planting Plan for specific locations.

16. All planted zones are to be 100% irrigated. Irrigation system shall be fully operational at time of landscape installation.

17. Braces, Stakes and Guys: Sound, new pressure-preservative-treated pine, free of knots, holes, cross grain, and other defects, 2 by 4 inches or 4 by 4 inches as indicated. Stakes pointed at one end. Paint all exposed braces and stakes dark green. Guys: Polypropylene material in green, Arbor Tie by Deep Root (800) 458-7668 or Landscape Architect approved equal.

18. Landscape Contractor shall warrant all plant material for a period of one year after date of Substantial Completion, against defects including death and unsatisfactory growth, except for defects resulting from abuse by Owner, extreme weather conditions unusual for warranty period, or incidents of vandalism and similar that are beyond Contractor's control. Remove and replace dead planting materials immediately. Replace planting materials that are more than 25 percent dead or in an unhealthy condition at end of warranty period. Replace planting materials as required throughout warranty period.

19. The Landscape Contractor shall be responsible for making himself familiar with all underground utilities and structures. The Landscape Contractor shall take sole responsibility for any cost incurred due to damage of said utilities or structures.

20. The Landscape Contractor shall not willfully proceed with planting operations as designed when it is obvious that unknown obstructions and/or grade differences exist that may not have been known during the design process. Such conditions shall be immediately brought to the attention of the Landscape Architect. The Landscape Contractor shall assume full responsibility for all necessary revisions due to failure to give such notification.

J.F.K. CAUSEWAY STREETSCAPE - PLANT SCHEDULE

KEY	QTY.	BOTANICAL / COMMON NAME	SIZE	COMMENTS
		TREES		
BUA	7	Bulnesia arborea / Vera Wood	14' Ht. X 8' Spr., 6" Cal., B&B, Specimen	
BUAR	3	Bulnesia arborea / Relocated Vera Wood	Existing to be relocated	See Tree Disposition Plans (TD) for existing locations and Landscape Plans (LP) for proposed locations.
BUS	7	Bursera simaruba / Gumbo Limbo	14' Ht. x 5' Spr., 5" Cal., B&B, FL #1	
CHS	18	Chorisia speciosa / Floss Silk Tree	12' O.A. Ht. x 5' Spr., 45 Gal., 6" Cal., Specimen	
COU	3	Coccoloba uvifera / Seagrape	5' Ht. x 3' Spr., 15 Gal., multi-branched, full to base	
DER	5	Delonix regia / Royal Poinciana	18' Ht. x 12' Spr., 4" Cal., B&B, Specimen	
GUS	3	Guaiacum sanctum / Native Lignum Vitae	6' Ht. x 4' Spr., 25 Gal., Specimen	
PAU	12	Pandanus utilis / Screw Pine	6' Ht. x 6' Spr., B&B, 30" C.T. multi-branched, Specimen	
PLU	10	Plumeria / Frangipani (Pink Flower)	10' Ht. x 6' Spr., 25 Gal., 4' c.t., Specimen	
SPX	3	Specimen Shade Tree / Option 1 - Ficus rubignosa (Rusty Fig) Option 2 - Pongamia pinnata (Pongam) Option 3 - Quercus virginiana (Live Oak) Option 4 - Clusia rosea (Pitch Apple) Option 5 - Calophyllum brasiliense (Calophyllum) Option 6 - Coccoloba uvifera (Sea Grape)	20'-30' Ht. x 10'-15' Spr., 8"-10" Cal. B&B, Collected Specimen	As approved by Landscape Architect.
QUV	5	Quercus virginiana / Live Oak	26'-28' Ht. x 10' Spr., 6" Cal., B&B, 6' CT. FL #1	As available from Calusa Creek Tree Farm (772) 219-3377 or Landscape Architect approved equal.
SWM	2	Swietenia mahogani / Mahogany	14' Ht. x 6' Spr., B&B , 5" Cal., 5' C.T., FL #1	
SWMR	1	Swietenia mahogani / Relocated Mahogany	Existing to be relocated	See Tree Disposition Plans (TD) for existing locations and Landscape Plans (LP) for proposed locations.
		PALMS		
BINR	1	Bismarkia nobilis / Relocated Bismark Palm	Existing to be relocated	See Tree Disposition Plans (TD) for existing locations and Landscape Plans (LP) for proposed locations.
CON1	5	Cocos nucifera 'Malayan' / Green Malayan Coconut Palm	6' G.W., B&B, Certified, full	
CON2	3	Cocos nucifera 'Malayan' / Green Malayan Coconut Palm	8'-12' G.W., B&B, Certified, full	
CONR	16	Cocos nucifera 'Malayan' / Relocated Green Malayan Coconut Palm	Existing to be relocated	See Tree Disposition Plans (TD) for existing locations and Landscape Plans (LP) for proposed locations.
PHD1	38	Phoenix dactylifera 'Medjool' / Date Palm	12' C.T., Certified, Matched Specimens	
PHD2	22	Phoenix dactylifera 'Medjool' / Date Palm	18' C.T., Certified, Matched Specimens	
PHR	17	Phoenix roebellini / Pygmy Date Palm	7' OA Ht., 26 Gal., single trunk, Matched Specimens	Install as shown on landscape plans.
PHX	1	Phoenix reclinata / Senegal Palm	12'-16' OA Ht., B&B, 5 trunks min. per plant, Specimen	
SAPR	1	Sabal palmetto / Relocated Cabbage Palm	Existing to be relocated	See Tree Disposition Plans (TD) for existing locations and Landscape Plans (LP) for proposed locations.
		ACCENT PLANTS		
BRO	57	Aechmea blanchetiana 'Orange' / Blanchetiana Bromelaid	7 Gal., not in bloom, full, 24" O.C.	
COF	103	Cordyline fruticosa 'Black Magic' / Ti Plant	7 Gal., 3' - 4' Ht., 3 plants per pot min.	
DRD	1	Dracaena draco / Dragon Tree	15 Gal., 6' Ht., full, Specimen	
		SHRUBS		
CHI	290	Chrysobalanus icaco / Redtip cocoplum	3 Gal., 24" Ht., Full, 30" O.C.	
CLG1	32	Clusia guttifera / Small Leaf Clusia	10 Gal., 4' O.A., full to base, 48" O.C.	
CLG2	151	Clusia guttifera / Small Leaf Clusia	3 Gal., 24"x24", full to base, 36" O.C.	
CRA	29	Crinum augustum 'Queen Emma' / Queen Emma Crinum	7 Gal., 36"x36", 1 plant per pot, 36" O.C.	
DIT	1318	Dianella tasmanica / Blueberry Flax Lily	3 Gal., 24"x24", full, 24" O.C.	
FIM	3727	Ficus microcarpa 'Green Island' / Green Island Ficus	3 Gal., 12"x12", full, 24" O.C.	
MOD	250	Monstera deliciosa / Monstera	3 Gal., 36"x36", full, 36" O.C.	
PHB	1620	Philodendron 'burle marx' / Philodendron Burle Marx	3 Gal., 18"x18", full, 24" O.C.	
		GROUNDCOVERS		
ANN	1100	Pentas lanceolata 'Dwarf' / Dwarf Pink. Lavender, White Pentas	1 Gal., 8"x8", 12" O.C., mixed quantities of each	Or Landscape Architect approved equal.
ARG	1125	Arachis glabrata-rhizona Perenial Peanut	1 Gal., Full Pot, 12" O.C.	
MIS	1937	Microsorum scolopendrium / Wart Fern	1 Gal., 8"x8", 12" O.C.	
SOD	* S.F.	Stenotaphrum secundatum / St. Augustine	delivered on palettes, thatch free	
		VINES		
FIP	303	Ficus pumila / Creeping Fig	1 Gal., full pot, 12" O.C.	
		PEBBLES		
PEB	8.9 C.Y.	Emerald Green Flats	2"-4", 3 inch layer over filter fabric, match finished grade flush	As available from Yardco (561) 433-4148 or Landscape Architect approved equal.
		MISCELLANEOUS		
FAB	1005 S.F.	Non-Woven Filter Fabric	Mirafi 140N non-woven black filter fabric	Install per manufacturers specifications at areas to receive pebbles. Excavate area as required to accommodate 3" layer of pebbles. (888) 795-0808.
EDGE	148 L.F.	Aluminum Edging	Permaloc Cleanline Aluminum Edging 3/16" x 5 1/2" x 16'	Install per manufacturers specifications at locations shown on plans. (800) 356-9660.
	* C.Y.	3000 Mix - Planting Soil	As available from Atlas Peat & Soil (561) 734-7300	12 inch minimum depth at groundcover beds, 24 inch minimum depth at shrub beds
	* C.Y.	50/50 Mix - Sod Soil		4 inch minimum depth in all areas to receive sod.
	*	DIEHARD Transplant	As available from Horticultural Alliance (800) 628-6373	For use in all transplant applications.

NOTE: ' * ' SYMBOL INDICATES LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING EXACT QUANTITY OF MATERIAL NEEDED.

REVISIONS	
DESCRIPTION	DATE
1. FDOT COMMENT RESPONSE	04/07/10
2. FDOT COMMENT RESPONSE 2	05/25/10
3.	
4.	

APPROVED BY:
GEORGE PUIG, RLA
LICENSED LANDSCAPE ARCHITECT NO. 1706
STATE OF FLORIDA
DATE:

EDAW | AECOM

800 Douglas Entrance
North Tower, 2nd Floor
Coral Gables, Florida 33134 USA
www.aecom.com
305.444.4691

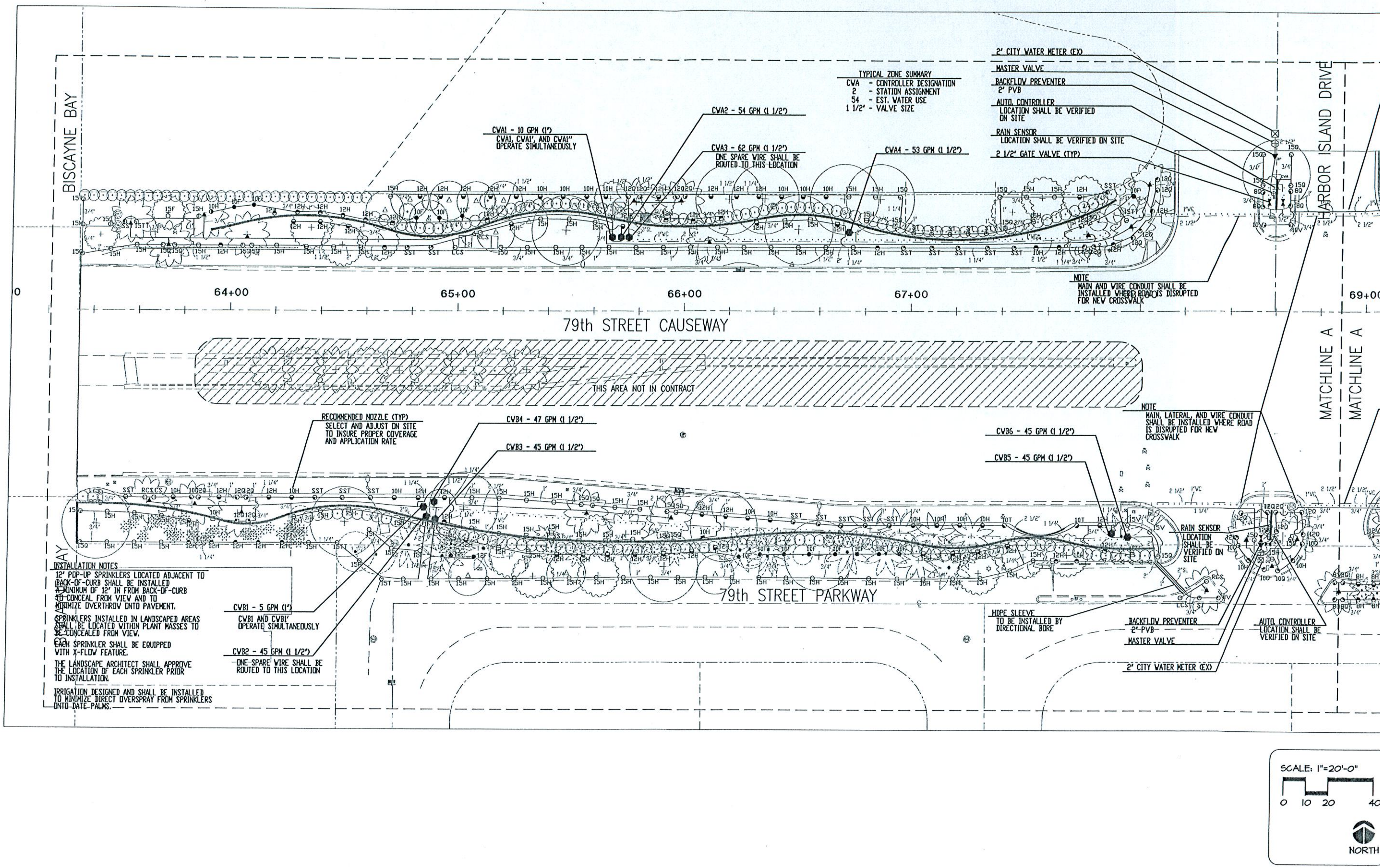
DATE: 02/01/10
DRAWN: GO
DESIGNED: GO
CHECKED: GP
QC: BD
CADD FILE:

CITY OF NORTH BAY VILLAGE

JF KENNEDY CAUSEWAY (79 STREET CAUSEWAY) PLANTING NOTES & SCHEDULE

09310022.01

SHEET NO. LP-502



REVISIONS	
DESCRIPTION	DATE
1. FDOT COMMENT RESPONSE	04/07/10
2.	
3.	
4.	

APPROVED BY: Kenneth DiDonato
KENNETH DIDONATO
PROFESSIONAL ENGINEER # 02892
STATE OF FLORIDA
DATE: 5-25-10

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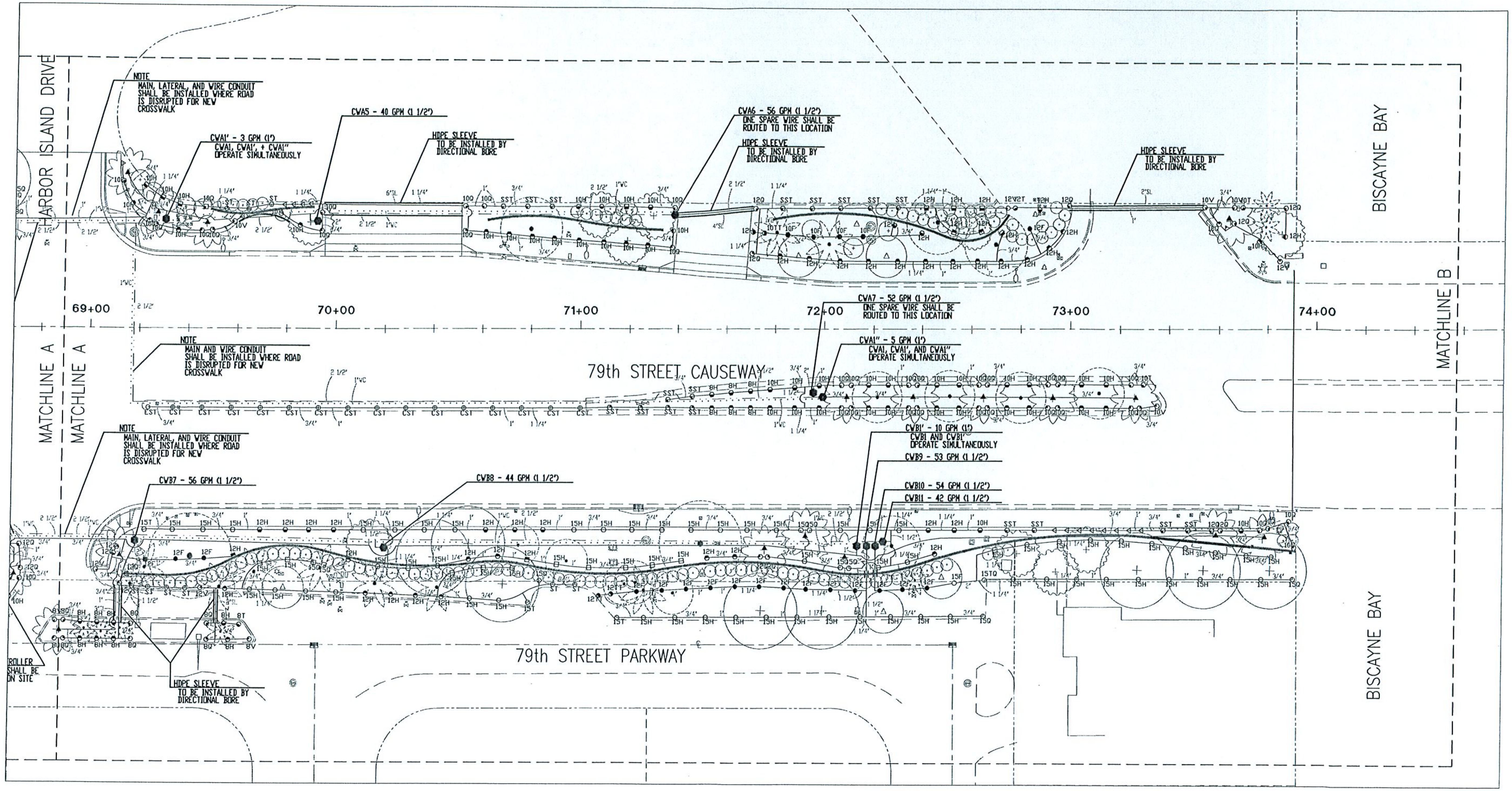
DATE:	02/01/10
DRAWN:	KD
DESIGNED:	KD
CHECKED:	GP
QC:	GO
CADD FILE:	

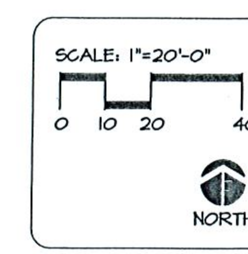
CITY OF NORTH BAY VILLAGE

JF KENNEDY CAUSEWAY (79 STREET CAUSEWAY) IRRIGATION PLAN

09310022.01

SHEET NO. **IR-101**





REVISIONS	
DESCRIPTION	DATE
1. FDOT COMMENT RESPONSE	04/07/10
2.	
3.	
4.	

APPROVED BY: Kenneth DiDonato
KENNETH DIDONATO
PROFESSIONAL ENGINEER # 02892
STATE OF FLORIDA
DATE: 5-25-10

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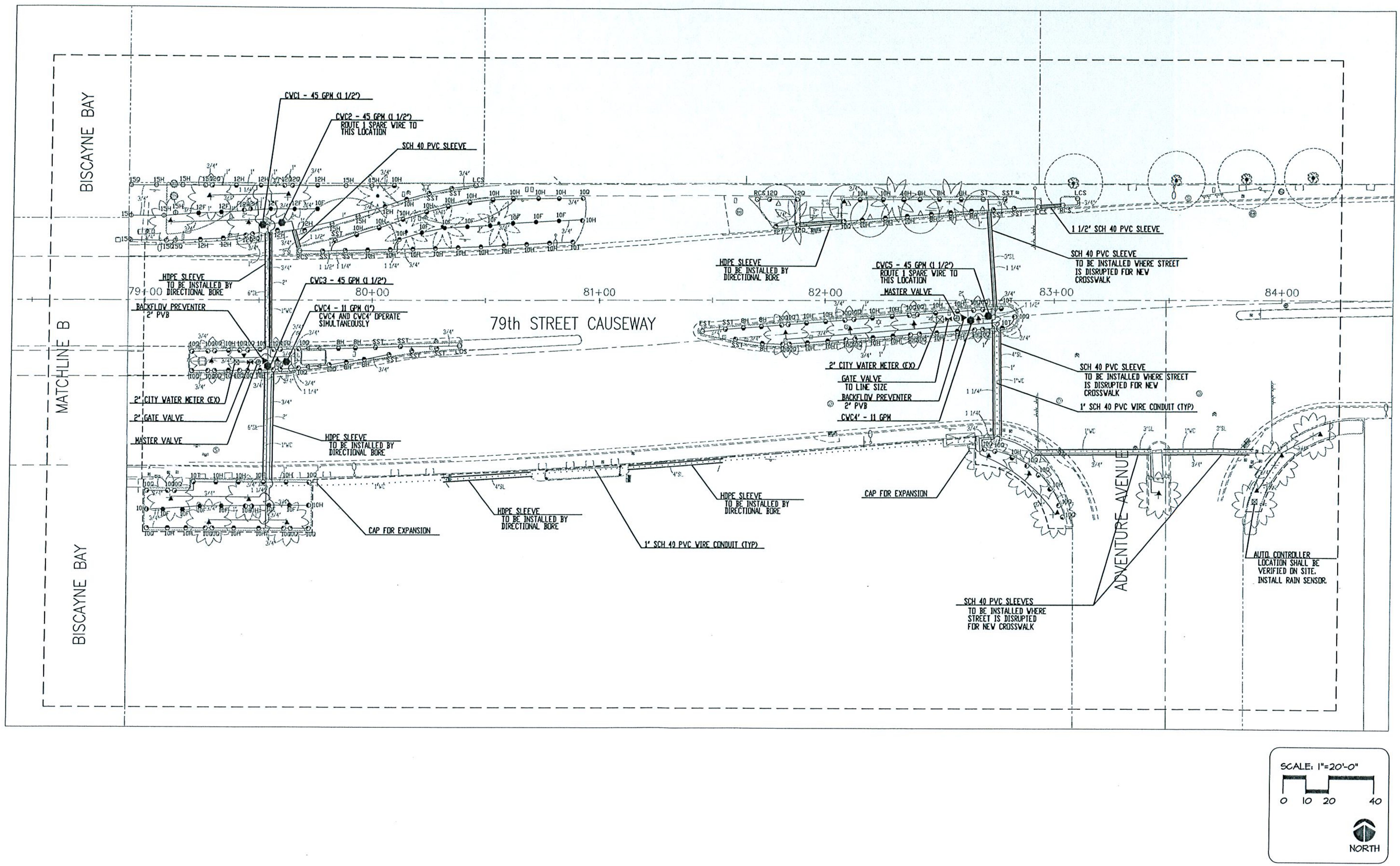
DATE:	02/01/10
DRAWN:	KD
DESIGNED:	KD
CHECKED:	GP
QC:	GO
CADD FILE:	

CITY OF NORTH BAY VILLAGE

JF KENNEDY CAUSEWAY (79 STREET CAUSEWAY) IRRIGATION PLAN

09310022.01

SHEET NO. IR-102



REVISIONS		APPROVED BY:		DATE: 02/01/10			
DESCRIPTION	DATE	Kenneth DiDonato		DRAWN: KD			SHEET NO.
1. FDOT COMMENT RESPONSE	04/07/10	KENNETH DIDONATO	EDAW AECOM	DESIGNED: KD	CITY OF NORTH BAY VILLAGE	JF KENNEDY CAUSEWAY (79 STREET CAUSEWAY) IRRIGATION PLAN	IR-103
2.		PROFESSIONAL ENGINEER # 02892	800 Douglas Entrance North Tower, 2nd Floor Coral Gables, Florida 33134 USA	CHECKED: GP		09310022.01	
3.		STATE OF FLORIDA	www.aecom.com	QC: GO			
4.		DATE: 5-25-10	305.444.4691	CADD FILE:			

LEGEND

SYMBOL	MODEL NO.	DESCRIPTION	* EST. QUANTITY
▲	570S-FB-100PC	TORO FLOOD BUBBLER	58
△	570S-SB-90	TORO STREAM BUBBLER	03
△	570S-SB-180	TORO STREAM BUBBLER	02
△	570S-SB-2S-180	TORO STREAM BUBBLER	22
10Q	570S-10Q	TORO SHRUB SPRAY	01
10H	570S-10H	TORO SHRUB SPRAY	07
12Q	570S-12Q	TORO SHRUB SPRAY	04
12H	570S-12H	TORO SHRUB SPRAY	28
12F	570S-12F	TORO SHRUB SPRAY	01
15Q	570S-15Q	TORO SHRUB SPRAY	05
15H	570S-15H	TORO SHRUB SPRAY	24
8V	570Z-6P-XF-8V	TORO 6' POP-UP SPRAY/X-FLOW	03
8Q	570Z-6P-XF-8Q	TORO 6' POP-UP SPRAY/X-FLOW	05
8T	570Z-6P-XF-8T	TORO 6' POP-UP SPRAY/X-FLOW	01
8H	570Z-6P-XF-8H	TORO 6' POP-UP SPRAY/X-FLOW	02
10Q	570Z-6P-XF-10Q	TORO 6' POP-UP SPRAY/X-FLOW	03
10T	570Z-6P-XF-10T	TORO 6' POP-UP SPRAY/X-FLOW	01
10H	570Z-6P-XF-10H	TORO 6' POP-UP SPRAY/X-FLOW	18
10F	570Z-6P-XF-10F	TORO 6' POP-UP SPRAY/X-FLOW	19
12V	570Z-6P-XF-12V	TORO 6' POP-UP SPRAY/X-FLOW	02
12Q	570Z-6P-XF-12Q	TORO 6' POP-UP SPRAY/X-FLOW	05
12T	570Z-6P-XF-12T	TORO 6' POP-UP SPRAY/X-FLOW	01
12H	570Z-6P-XF-12H	TORO 6' POP-UP SPRAY/X-FLOW	27
12TT	570Z-6P-XF-12TT	TORO 6' POP-UP SPRAY/X-FLOW	02
12F	570Z-6P-XF-12F	TORO 6' POP-UP SPRAY/X-FLOW	20
EST	570Z-6P-XF-4EST	TORO 6' POP-UP SPRAY/X-FLOW	01
2ST	570Z-6P-XF-2ST	TORO 6' POP-UP SPRAY/X-FLOW	05
RCS	570Z-6P-XF-4RCS	TORO 6' POP-UP SPRAY/X-FLOW	01
LCS	570Z-6P-XF-4LCS	TORO 6' POP-UP SPRAY/X-FLOW	02
CST	570Z-6P-XF-4CST	TORO 6' POP-UP SPRAY/X-FLOW	15
SST	570Z-6P-XF-4SST	TORO 6' POP-UP SPRAY/X-FLOW	05
ST	570Z-6P-XF-4SSST	TORO 6' POP-UP SPRAY/X-FLOW	09
15Q	570Z-6P-XF-15Q	TORO 6' POP-UP SPRAY/X-FLOW	08
15T	570Z-6P-XF-15T	TORO 6' POP-UP SPRAY/X-FLOW	04
15H	570Z-6P-XF-15H	TORO 6' POP-UP SPRAY/X-FLOW	77
15TT	570Z-6P-XF-15TT	TORO 6' POP-UP SPRAY/X-FLOW	01
15TQ	570Z-6P-XF-15TQ	TORO 6' POP-UP SPRAY/X-FLOW	01
15F	570Z-6P-XF-15F	TORO 6' POP-UP SPRAY/X-FLOW	04
8Q	570Z-12P-XF-8Q	TORO 12' POP-UP SPRAY/X-FLOW	06
8H	570Z-12P-XF-8H	TORO 12' POP-UP SPRAY/X-FLOW	25
10V	570Z-12P-XF-10V	TORO 12' POP-UP SPRAY/X-FLOW	07
10Q	570Z-12P-XF-10Q	TORO 12' POP-UP SPRAY/X-FLOW	93
10T	570Z-12P-XF-10T	TORO 12' POP-UP SPRAY/X-FLOW	07
10H	570Z-12P-XF-10H	TORO 12' POP-UP SPRAY/X-FLOW	102
10TT	570Z-12P-XF-10TT	TORO 12' POP-UP SPRAY/X-FLOW	01
10F	570Z-12P-XF-10F	TORO 12' POP-UP SPRAY/X-FLOW	13
12V	570Z-12P-XF-12V	TORO 12' POP-UP SPRAY/X-FLOW	02
12Q	570Z-12P-XF-12Q	TORO 12' POP-UP SPRAY/X-FLOW	33
12T	570Z-12P-XF-12T	TORO 12' POP-UP SPRAY/X-FLOW	01
12H	570Z-12P-XF-12H	TORO 12' POP-UP SPRAY/X-FLOW	58
12F	570Z-12P-XF-12F	TORO 12' POP-UP SPRAY/X-FLOW	02
RCS	570Z-12P-XF-4RCS	TORO 12' POP-UP SPRAY/X-FLOW	06
LCS	570Z-12P-XF-4LCS	TORO 12' POP-UP SPRAY/X-FLOW	07
SST	570Z-12P-XF-4SST	TORO 12' POP-UP SPRAY/X-FLOW	47
15Q	570Z-12P-XF-15Q	TORO 12' POP-UP SPRAY/X-FLOW	29
15T	570Z-12P-XF-15T	TORO 12' POP-UP SPRAY/X-FLOW	01
15H	570Z-12P-XF-15H	TORO 12' POP-UP SPRAY/X-FLOW	62
15V	570Z-12P-XF-15V	TORO 12' POP-UP SPRAY/X-FLOW	02
15TT	570Z-12P-XF-15TT	TORO 12' POP-UP SPRAY/X-FLOW	03
15F	570Z-12P-XF-15F	TORO 12' POP-UP SPRAY/X-FLOW	01
●,⊕	252 SERIES	TORO 24VAC SOLENOID VALVE	
		1'	07
		1 1/2'	24
	TMC-424-OD-8-4	TORO AUTOMATIC CONTROLLER	03
⊕ RS	TWRS	TORO RAIN SENSOR	03
▼ BP	765 (2')	FEBCO PRESSURE VACUUM BREAKER	03
NOT SHOWN		PAIGE UF WIRE	AS REQUIRED
		#14 AWG VALVE CONTROL	
		#12 AWG VALVE COMMON	
NOT SHOWN		SCH 40 GALVANIZED STEEL	AS REQUIRED
		SCH 40 PVC	AS REQUIRED
—· ·—		MAIN LINE	
——		LATERALS	
═══		SLEEVES	
NOT SHOWN		SHRUB RISERS	
NOT SHOWN		PVC FITTINGS	
· · · · ·		WIRE CONDUIT	
═══		HDPE	AS REQUIRED
		SLEEVES (DIRECTIONAL BORE)	
		GATE VALVE (TO LINE SIZE)	04
		VALVE BOX	35
		GROUDING LOCATION	03
		CAPPED STUB-OUT	AS REQUIRED
⊠		CITY WATER METER	EXISTING

NOTE: ABOVE QUANTITIES ARE FOR COMPARISON ONLY.
CONTRACTOR SHALL VERIFY PRIOR TO SUBMITTING BID.

ZONE SUMMARY CHART

CONTROLLER CWA

STA NO.	VALVE	SPRINKLER TYPE	VALVE SIZE	WATER DEMAND	RUN *TIME	WEEKLY USAGE
1	CWA1	BUBBLER	1'	10 GPM	60 MIN/WK	600 GAL/WK
	CWA1'	BUBBLER	1'	03 GPM	60 MIN/WK	180 GAL/WK
	CWA1''	BUBBLER	1'	05 GPM	60 MIN/WK	300 GAL/WK
2	CWA2	SPRAY	1 1/2'	54 GPM	60 MIN/WK	3,240 GAL/WK
3	CWA3	SPRAY	1 1/2'	62 GPM	60 MIN/WK	3,720 GAL/WK
4	CWA4	SPRAY	1 1/2'	53 GPM	60 MIN/WK	3,180 GAL/WK
5	CWA5	SPRAY	1 1/2'	40 GPM	60 MIN/WK	2,400 GAL/WK
6	CWA6	SPRAY	1 1/2'	56 GPM	60 MIN/WK	3,360 GAL/WK
7	CWA7	SPRAY	1 1/2'	52 GPM	60 MIN/WK	3,120 GAL/WK
8-12	SPARE					
					420 MIN/WK	20,100 GAL/WK

CONTROLLER CWB

STA NO.	VALVE	SPRINKLER TYPE	VALVE SIZE	WATER DEMAND	RUN *TIME	WEEKLY USAGE
1	CWB1	BUBBLER	1'	05 GPM	60 MIN/WK	300 GAL/WK
	CWB1'	BUBBLER	1'	10 GPM	60 MIN/WK	600 GAL/WK
2	CWB2	SPRAY	1 1/2'	52 GPM	60 MIN/WK	3,120 GAL/WK
3	CWB3	SPRAY	1 1/2'	45 GPM	60 MIN/WK	2,700 GAL/WK
4	CWB4	SPRAY	1 1/2'	47 GPM	60 MIN/WK	2,820 GAL/WK
5	CWB5	SPRAY	1 1/2'	45 GPM	60 MIN/WK	2,700 GAL/WK
6	CWB6	SPRAY	1 1/2'	45 GPM	60 MIN/WK	2,700 GAL/WK
7	CWB7	SPRAY	1 1/2'	56 GPM	60 MIN/WK	3,360 GAL/WK
8	CWB8	SPRAY	1 1/2'	44 GPM	60 MIN/WK	2,640 GAL/WK
9	CWB9	SPRAY	1 1/2'	53 GPM	60 MIN/WK	3,180 GAL/WK
10	CWB10	SPRAY	1 1/2'	54 GPM	60 MIN/WK	3,240 GAL/WK
11	CWB11	SPRAY	1 1/2'	42 GPM	60 MIN/WK	2,520 GAL/WK
12	SPARE					
					420 MIN/WK	29,880 GAL/WK

CONTROLLER CWC

STA NO.	VALVE	SPRINKLER TYPE	VALVE SIZE	WATER DEMAND	RUN *TIME	WEEKLY USAGE
1	CWC1	SPRAY	1 1/2'	45 GPM	60 MIN/WK	2,700 GAL/WK
2	CWC2	SPRAY	1 1/2'	45 GPM	60 MIN/WK	2,700 GAL/WK
3	CWC3	SPRAY	1 1/2'	45 GPM	60 MIN/WK	2,700 GAL/WK
4	CWC4	BUBBLER	1'	11 GPM	60 MIN/WK	660 GAL/WK
	CWC4'	BUBBLER	1'	11 GPM	60 MIN/WK	660 GAL/WK
5	CWC5	SPRAY	1 1/2'	45 GPM	60 MIN/WK	2,700 GAL/WK
6-12	SPARE					
					300 MIN/WK	12,120 GAL/WK

* TO APPLY 1.5 IN/WK

IRRIGATION NOTES & SPECIFICATIONS

AUTOMATIC IRRIGATION SYSTEM	
WATER DEMAND / ZONE	REFER TO PLAN
WATER SOURCE	2' CITY WATER METERS
PRESSURE REQUIRED	50 PSI

GENERAL

IRRIGATION SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES, CONTRACT DRAWINGS, AND CONTRACT SPECIFICATIONS.

IRRIGATION DESIGN BASED ON 'PLANTING PLAN' DATED JANUARY 2010. CONTRACTOR SHALL REFER TO THIS PLAN TO COORDINATE SPRINKLER LOCATIONS AND PIPE ROUTING WITH NEW AND EXISTING PLANT LOCATIONS.

THIS IRRIGATION PLAN SHALL BE USED AS A GUIDE ONLY. CONTRACTOR SHALL INSTALL IRRIGATION TO MATCH ON SITE CONDITIONS AND TO OVERCOME THE INHERENT INACCURACIES THAT RESULT WHEN DESIGNING FROM BASE PLANS SCALED AT 1'= 20'.

THIS IRRIGATION HAS BEEN DESIGNED AS A TYPICAL BLOCK VALVE TYPE USING TORO SPRAY SPRINKLERS, IN-LINE VALVES, AND CONTROL SYSTEM. WATER CONSERVATION EQUIPMENT SHALL BE INSTALLED.

THIS SECTION OF ROADWAY SHALL BE IRRIGATED WITH THREE INDEPENDENT SYSTEMS. THE SOURCE FOR EACH OF SYSTEM 'A' AND 'B' SHALL BE ONE EXISTING 2' CITY WATER. THE SOURCE FOR SYSTEM 'C' SHALL BE TWO-2' EXISTING CITY WATER METERS.

A MASTER VALVE SHALL BE INSTALLED PER METER TO DEPRESSURIZE MAIN LINE WHEN THE SYSTEM IS NOT PROGRAMMED TO OPERATE. EACH MASTER VALVE SHALL BE ACTIVATED BY THE CORRESPONDING CONTROLLER.

BACKFLOW PREVENTION SHALL BE INSTALLED TO MEET LOCAL CODE REQUIREMENTS FOR CROSS CONNECTION CONTROL. A PRESSURE VACUUM BREAKER HAS BEEN SPECIFIED PER METER.

CONTRACTOR IS ADVISED TO VISIT THE SITE TO BECOME FAMILIAR WITH ON SITE CONDITIONS AND TO REFER TO THE PLAN FOR ADDITIONAL INFORMATION.

TO ENSURE PROPER OPERATION OF EACH SYSTEM, PRESSURE REQUIRED, SOURCE SIZE, VALVE SIZES, ZONE CAPACITIES, SPRINKLER SPACING, PIPE AND WIRE SIZES, INSTALLATION NOTES AND DETAILS, AND SPECIFICATIONS SHALL BE FOLLOWED AS SHOWN.

PIPING

PIPE ROUTING IS SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR ON SITE CONDITIONS.

PIPE SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND PIPE MANUFACTURER'S INSTRUCTIONS.

PIPE ROUTED UNDER HARDSCAPED AREAS SHALL BE SLEEVED IN SCH 40 PVC. EACH SLEEVE SHALL: (1) BE BURIED TO A MINIMUM DEPTH OF 24', (2) BE TWO PIPE SIZES LARGER THAN CARRIER PIPE, AND (3) EXTEND 3' BEYOND HARDSCAPED AREA ON EACH END. CONTRACTOR SHALL VERIFY THE SIZE, DEPTH AND LOCATION OF ALL EXISTING SLEEVES. SLEEVES INSTALLED BY DIRECTIONAL BORE SHALL BE HDPE.

PIPE AND FITTINGS INSTALLED ABOVE GRADE FOR EACH BACKFLOW PREVENTER SHALL BE SCH 40 GALVANIZED STEEL. ALL OTHER PIPE AND FITTINGS SHALL BE SCH 40 TYPE 1120 PVC.

PIPE SIZED TO LIMIT FLOW VELOCITIES TO 5 FEET/SECOND AND TO LIMIT FRICTION LOSS IN THE PIPING NETWORK.

PIPE SHALL BE INSTALLED AT SUFFICIENT DEPTH BELOW GROUND TO PROTECT IT FROM HAZARD SUCH AS VEHICULAR TRAFFIC OR ROUTINE OCCURRENCES WHICH OCCUR IN THE NORMAL USE AND MAINTENANCE OF THE PROPERTY. DEPTHS OF COVER SHALL MEET OR EXCEED SCS CODE 430-DD. REFER TO THE APPLICABLE DETAIL FOR ADDITIONAL INFORMATION.

BACKFILL SHALL BE OF SUITABLE MATERIAL, FREE OF ROCKS, STONES, AND OTHER DEBRIS THAT WOULD DAMAGE IRRIGATION SYSTEM COMPONENTS.

EACH BACKFLOW PREVENTER SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCAL CODES AND SHALL BE LOCATED TO BE CONCEALED FROM VIEW.

GATE VALVES SHALL BE INSTALLED FOR ISOLATION. EACH VALVE SHALL BE TO LINE SIZE AND INSTALLED IN A VALVE BOX. POROUS MATERIAL SHALL BE INSTALLED PER BOX TO PROMOTE DRAINAGE.

SPRINKLERS

SPRINKLER LOCATIONS ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR LANDSCAPING, SITE LIGHTING, PREVAILING WIND, UTILITIES, ETC., TO ENSURE PROPER COVERAGE WITH MINIMAL UNDESIRABLE OVERTHROW. A PRIME OBJECTIVE SHALL BE TO ELIMINATE UNDESIRABLE OVERTHROW. SPRINKLERS LAID OUT TO MINIMIZE OVERTHROW ONTO DATE PALMS.

SPRAY HEADS SHALL BE TORO 570 SERIES. SIX INCH POP-UP TYPE SHALL BE INSTALLED IN AREAS LANDSCAPED WITH SOD AND LOW GROUND COVER, 12' POP-UP TYPE SHALL BE INSTALLED IN AREAS LANDSCAPED WITH MEDIUM GROUND COVER AND LOW SHRUBS, SHRUB HEADS SHALL BE INSTALLED IN AREAS LANDSCAPED WITH TALL SHRUBS, AND BUBBLERS SHALL BE INSTALLED AT DATE PALMS AND IN NARROW LANDSCAPED AREAS.

ALL POP-UP SPRINKLERS SHALL BE INSTALLED ON PVC SWING JOINTS CONSISTING OF MARLEX STREET ELBOWS AND SCH 80 NIPPLES.

POP-UP SPRINKLERS LOCATED IN LOW SHRUBS SHALL BE INSTALLED ON 1/2' SCH 40 PVC RISERS TO A HEIGHT SO SPRINKLERS ARE CONCEALED FROM VIEW EXCEPT DURING USE.

SHRUB HEADS AND BUBBLERS SHALL BE INSTALLED ON 1/2 SCH 40 PVC RISERS. SHRUB HEADS SHALL BE INSTALLED TO A STANDARD HEIGHT OF 6' ABOVE PLANTS AND SHALL BE LOCATED WITHIN PLANTS TO CONCEAL FROM VIEW. BUBBLERS SHALL BE INSTALLED AT THE BASE OF TALL SHRUBS AND PALMS FOR LOW LEVEL WATERING. RISERS SHALL BE BLACK TO BE LESS VISIBLE.

EACH SPRAY HEAD SHALL BE EQUIPPED WITH THE APPROPRIATE MPR NOZZLE AND X-FLOW FEATURE.

SPRINKLERS SHALL BE INSTALLED AND MAINTAINED AT THE PROPER HEIGHT TO ELIMINATE THE CHANCE OF INJURY AND NO OVERSPRAY SHALL BE ALLOWED ONTO PAVEMENT.

ADJUSTMENT FEATURES OF SPRINKLERS SPECIFIED SHALL BE UTILIZED TO ENSURE PROPER COVERAGE WITH MINIMAL UNDESIRABLE OVERTHROW. LOW ANGLE, FLAT SPRAY, AND ADJUSTABLE ARC NOZZLES SHALL BE USED TO MINIMIZE OVERTHROW.

SPRINKLERS LOCATED ADJACENT TO HARDSCAPED AREAS SHALL BE INSTALLED AWAY FROM HARDSCAPED AREAS TO MINIMIZE OVERTHROW AND THE CHANCE OF DAMAGE BY VEHICLES, PEDESTRIANS, AND LAWN MAINTENANCE PERSONNEL. AS A GENERAL RULE, 6' POP-UP SPRAY HEADS SHALL BE INSTALLED IN 4', AND SHRUB HEADS AND 12' POP-UP SPRAY HEADS SHALL BE INSTALLED IN 12'.

CONTROL SYSTEM

A TORO TMC SERIES 24 VOLT ELECTRIC CONTROL SYSTEM HAS BE SPECIFIED. FOR SYSTEM CWA, ONE 12 STATION CONTROLLER SHALL ACTIVATE 9 IN-LINE VALVES. FOR SYSTEM CWB, ONE 12 STATION CONTROLLER SHALL ACTIVATE 12 IN-LINE VALVES. FOR SYSTEM CWC, ONE 12 STATION CONTROLLER 6 IN-LINE VALVES. ONE VALVE SHALL BE CONTROLLED PER STATION EXCEPT AS NOTED. A MASTER-VALVE AND RAIN SENSOR SHALL BE INSTALLED PER SYSTEM.

CONTROLLERS SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND MANUFACTURER'S INSTRUCTIONS. PROPER GROUNDING EQUIPMENT SHALL BE PROVIDED.

CONTROLLER LOCATIONS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE. A 110 VAC ELECTRIC SOURCE IS REQUIRED PER LOCATION.

CONTROL LINES FROM AUTOMATIC CONTROLLERS TO IN-LINE AUTOMATIC VALVES AND MASTER VALVES SHALL BE #14 AWG UNDERGROUND FEED TYPE WHICH SHALL BE: (1) INSTALLED IN ACCORDANCE WITH LOCAL CODES, (2) INSTALLED IN SCH 40 PVC WIRE CONDUIT, (3) BURIED TO THE DEPTH OF THE MAIN LINE, (4) COLOR CODED TO FACILITATE TROUBLESHOOTING, AND (5) SPLICED MOSTLY AT VALVE LOCATIONS. SPLICES SHALL BE MADE WATERPROOF USING APPROVED METHODS. SPARE WIRES SHALL BE ROUTED FROM EACH CONTROLLER IN ALL DIRECTIONS TO THE FARTHEST VALVES CONTROLLED.

AN INDIVIDUAL CONTROL WIRE SHALL BE ROUTED TO EACH VALVE AND VALVES WHICH OPERATE SIMULTANEOUSLY SHALL BE TEED TOGETHER AT THE CONTROLLER.

AUTOMATIC VALVE AND MASTER VALVE LOCATIONS ARE SCHEMATIC ONLY AND SHALL BE ADJUSTED FOR ON SITE CONDITIONS. EACH VALVE SHALL BE INSTALLED IN A VALVE BOX. A MINIMUM OF ONE CUBIC FOOT OF GRAVEL SHALL BE PROVIDED PER BOX TO PROMOTE DRAINAGE.

WATER CONSERVATION EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. EACH RAIN SENSOR SHALL BE PLACED ON A STATIONARY STRUCTURE, MINIMUM OF 5' CLEARANCE FROM OTHER OUTDOOR EQUIPMENT, FREE AND CLEAR OF ANY TREE CANOPY OR OTHER OVERHEAD OBSTRUCTION, AND ABOVE THE HEIGHT OF SPRINKLER COVERAGE.

TIMING AND PRECIPITATION

TIMING OF EACH STATION SHALL BE SET IN THE FIELD TO MATCH LOCAL REQUIREMENTS. REFER TO ZONE SUMMARY CHART FOR RECOMMENDED RUN TIMES TO APPLY 1.5 INCHES/WEEK.

PROGRAMMING

SYSTEMS SHALL BE PROGRAMMED SO ALL IRRIGATION IS COMPLETED WITHIN THE GUIDELINES FOR PHASE 2 WATER RESTRICTIONS.

REVISIONS	
DESCRIPTION	DATE
1. FDOT COMMENT RESPONSE	04/07/10
2.	
3.	
4.	

APPROVED BY: Kenneth DiDonato
KENNETH DIDONATO
PROFESSIONAL ENGINEER # 02892
STATE OF FLORIDA
DATE: 5-23-10

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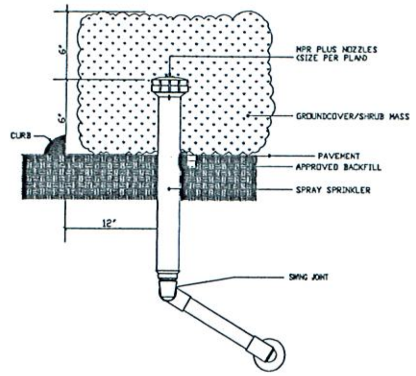
CITY OF NORTH BAY VILLAGE

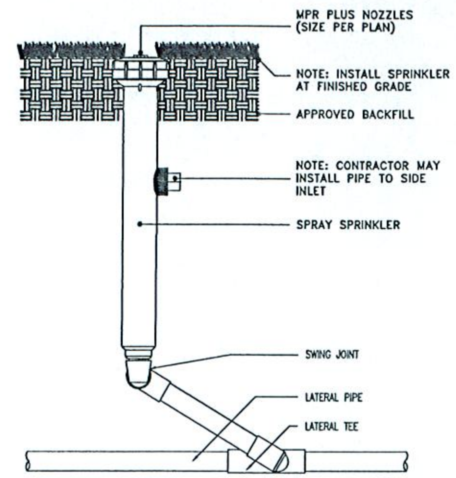
JF KENNEDY CAUSEWAY
(79 STREET CAUSEWAY)
IRRIGATION DETAILS

09310022.01

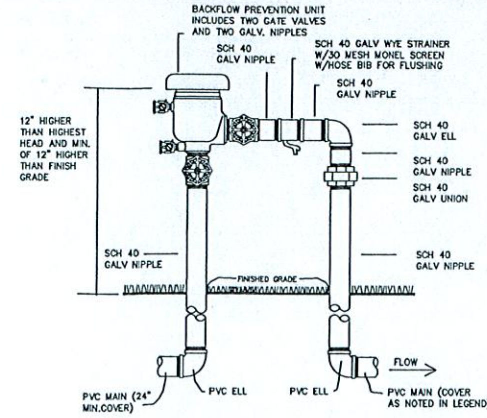
SHEET NO. IR-501



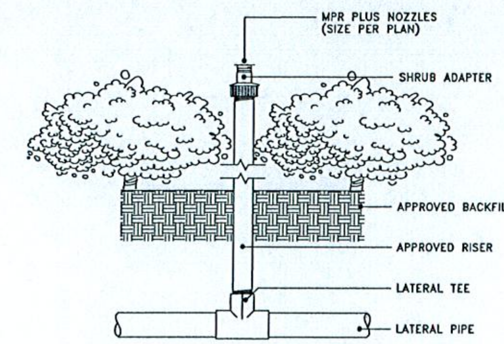
SPRINKLER LOCATION DETAIL (12" POP-UP)
NOT TO SCALE



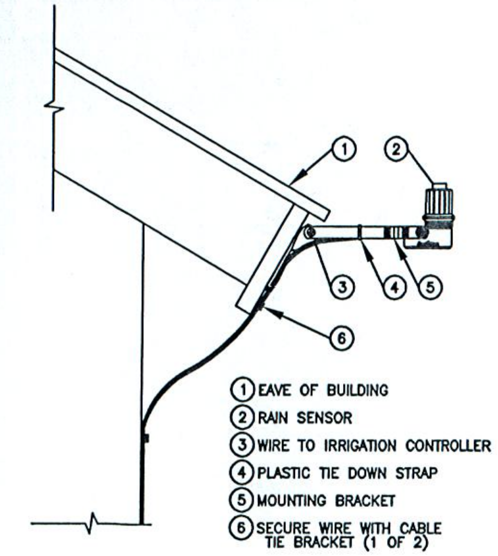
12" POP-UP SPRINKLER ON PVC SWING JOINT
NOT TO SCALE



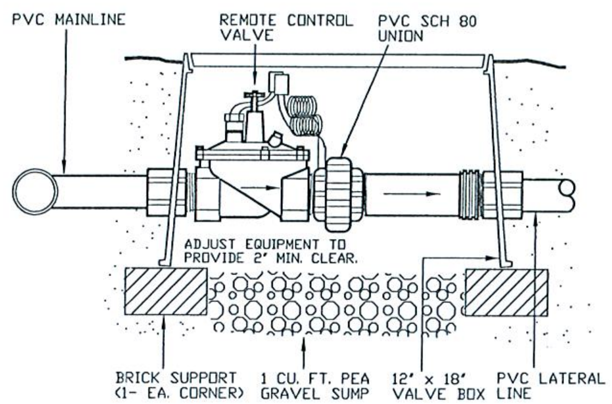
PRESSURE VACUUM BREAKER
NOT TO SCALE



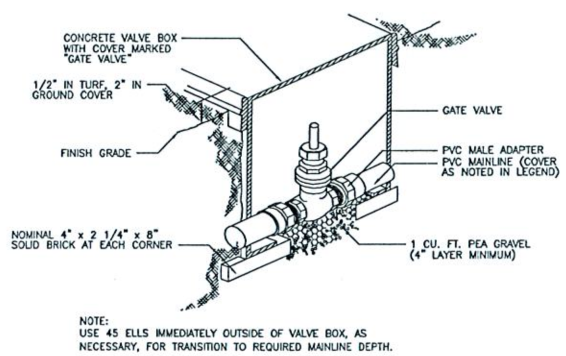
SHRUB/BUBBLER SPRINKLER
NOT TO SCALE



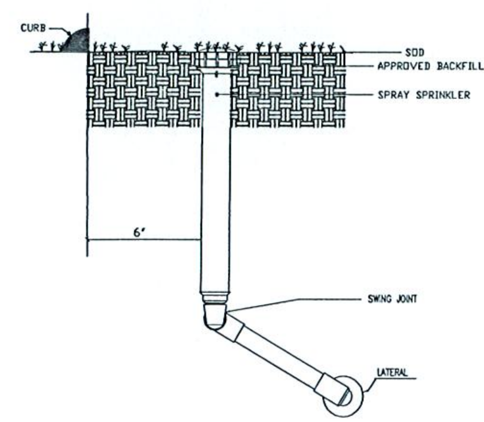
RAIN SENSOR
NOT TO SCALE



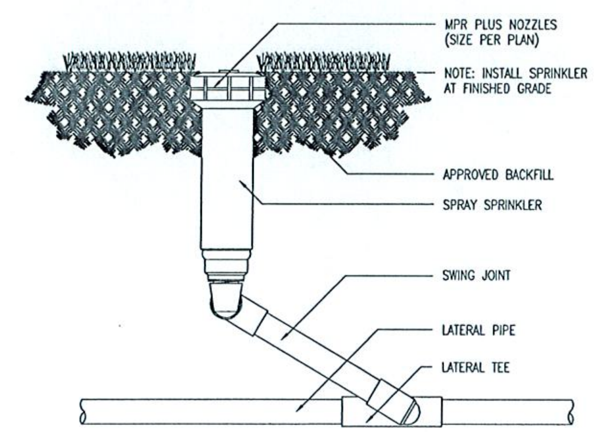
REMOTE CONTROL VALVE DETAIL
NOT TO SCALE



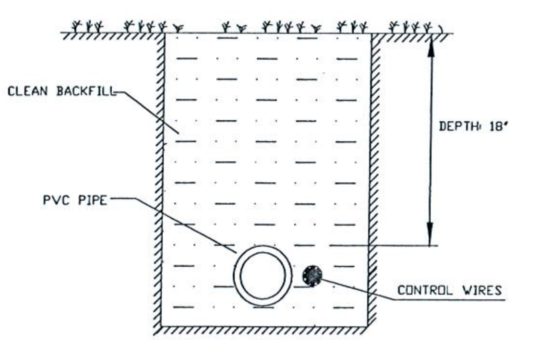
GATE VALVE DETAIL
NOT TO SCALE



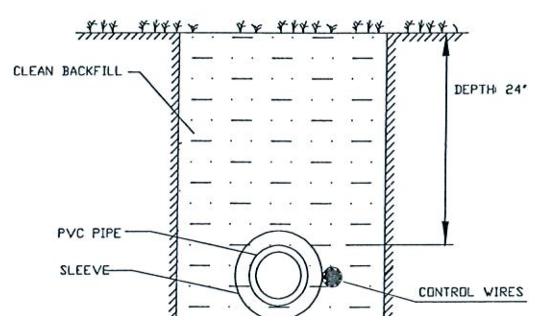
SPRINKLER LOCATION DETAIL (6" POP-UP)
NOT TO SCALE



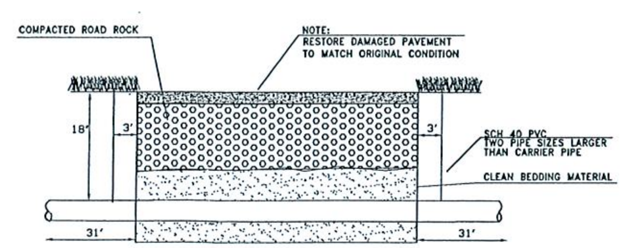
POP-UP SPRINKLER ON PVC SWING JOINT
NOT TO SCALE



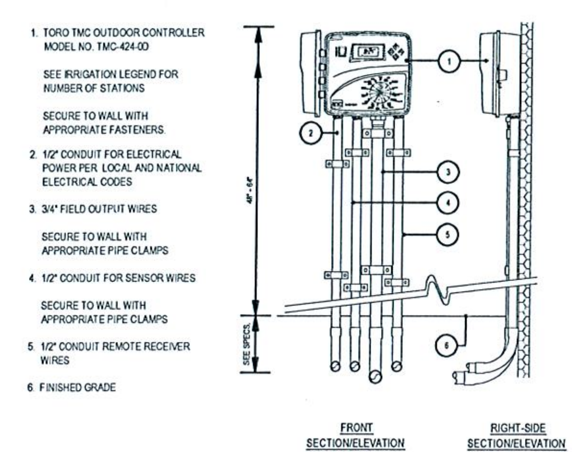
TRENCHING DETAIL
NON-VEHICLE TRAFFIC AREA
NOT TO SCALE



TRENCHING DETAIL
VEHICLE TRAFFIC AREA
NOT TO SCALE



PIPE SLEEVE DETAIL
NOT TO SCALE



TORO TMC-424 CONTROLLER
NOT TO SCALE

REVISIONS		APPROVED BY:					
DESCRIPTION	DATE	Kenneth DiDonato (signature)	EDAW AECOM	DATE: 02/01/10	CITY OF NORTH BAY VILLAGE	JF KENNEDY CAUSEWAY (79 STREET CAUSEWAY) IRRIGATION DETAILS	SHEET NO.
1. FDOT COMMENT RESPONSE	04/07/10	KENNETH DIDONATO	800 Douglas Entrance	DRAWN: KD			IR-502
2.		PROFESSIONAL ENGINEER # 02892	North Tower, 2nd Floor	DESIGNED: KD			09310022.01
3.		STATE OF FLORIDA	Coral Gables, Florida 33134 USA	CHECKED: GP			
4.		DATE: 5-13-10	www.aecom.com	QC: GO			
			305.444.4691	CADD FILE:			

ABBREVIATIONS

ABBREVIATIONS

J BOX	JUNCTION BOX
JB	JUNCTION BOX
AWG	AMERICAN WIRE GAUGE
BRKR	BREAKER
C, CND	CONDUIT
CKT	CIRCUIT
CB, CKT BRKR	CIRCUIT BREAKER
DISC	DISCONNECT
DWG	DRAWING
FU	FUSE
G, GND	GROUND
FXTR	FIXTURE
HOA	HAND-OFF-AUTO
LT	LIGHT
LUM	LUMINAIRE (LIGHT FIXTURE)
KCMIL	THOUSAND CIRCULAR MILS
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MT	MOUNT
MTD	MOUNTED
MTG	MOUNTING
PNL	PANEL
PWR	POWER
PH, ø	PHASE
RECEPT	RECEPTACLE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
W	WATT OR WIRE
W/	WITH
WHTR	WATER-HEATER
WP	WEATHER PROOF

SYMBOL LEGEND

SYMBOL LEGEND

- 20A., 125V, 3 WIRES GROUNDING TYPE DUPLEX RECEPTACLE GND FAULT INTERRUPTER, WP - WEATHERPROOF.
- PROPOSED LANDSCAPING FIXTURE (SEE PLAN FOR LAYOUT) FOR EXACT LOCATION REFER TO LANDSCAPE CONSULTANT DWG
- E — EXISTING POLE AND LUMINAIRE TO REMAIN
- NEW POLE AND LUMINAIRE TO REMAIN (12' MH PEDESTRIAN POLE)
- SERVICE POINT "1", "2" AND "3"
- J — JUNCTION BOX. (WP WEATHERPROOF.)
- BRANCH CIRCUIT OR FEEDER UNDERGROUND
- DIRECTIONALLY BORED, HIGH DENSITY POLY ETHYLENE CONDUIT DIRECTIONALLY BOREADUNDER ROAD WAY PAVEMENT WITH USE RHW-XLP CONDUCTORS AWG INSIDE (NUMBER OF CONDUCTORS AND SIZE AS SHOWN ON PLAN SHEET
- ISOLATED PULL BOX SURROUND WITH CONCRETE. PAD SIZE AS REQUIRED AS PER NEC AND TRAFFIC DESIGN STANDARS. COORDINATE EXACT LOCATION AND DIMENSION WITH CIVIL DWGS.
- 3 100 * — DISCONNECT SWITCH: 3 - NUMBER OF POLES, 100 - SWITCH SIZE, * FUSE SIZE AS PER MANUFACTURER OF EQUIPMENT RECOMMENDATIONS.
- HOMERUN TO PANEL (U.O.N. 12 AWG IN 16 (1/2 ") CONDUIT MARKS DENOTE - NUMBER OF WIRES (HOT OR SWITCH LEGS) LONG MARK - NEUTRAL, NO MARK - NEUTRAL & ONE HOT WIRE DARK CIRCLE SYMBOL - GREEN GROUND
- SOLENOID VALVE-FURNISHED AND INSTALLED BY OTHERS WIRED BY ELECTRICAL CONTRACTOR

GENERAL NOTES

1- FURNISH ALL LABOR, MATERIALS AND EQUIPMENT, OBTAIN ALL PERMITS AS REQUIRED, AND PERFORM ALL WORK NECESSARY FOR A COMPLETE ELECTRICAL INSTALLATION IN ACCORDANCE WITH THESE DRAWINGS.

2- IT IS NOT THE INTENT OF THESE PLANS AND SPECIFICATIONS TO SHOW EVERY AND ALL DETAILS OF CONSTRUCTION. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED, INCLUDING MOUNTING HARDWARE, FOR A COMPLETE ELECTRICAL INSTALLATION IN PROPER WORKING ORDER.

3- INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST APPLICABLE REQUIREMENTS OF LOCAL, STATE AND NATIONAL CODES, EXCEPT WHERE THESE DRAWINGS CALL FOR A HIGHER STANDARD. ALL MATERIALS SHALL BE NEW, INDUSTRIAL GRADE AND SHALL BEAR THE UL SEAL.

4- VISIT THE SITE PRIOR TO ENTERING HIS BID, IN ORDER TO FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS AND SPECIAL REQUIREMENTS FOR EXECUTION OF THE COMPLETE JOB. LOCATION OF SERVICE POINT SHALL BE VERIFIED AT THE SITE AND CHECKED WITH CONTRACT DRAWINGS. ALL PROPOSALS TO PERFORM WORK SHALL BE BASED ON ACTUAL CONDITIONS AT THE JOB SITE.

5- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR THE ADVANCED ORDERING OF LONG LEAD ITEMS, AS NOT TO INTERFERE WITH THE PRODUCTION OF OTHER TRADES RESULTING IN ANY DOWN OR LAG TIME.

6- NOT USED

7- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDER-GROUND AND STRUCTURAL CONFLICTS IN COOPERATION WITH THE UTILITY COMPANY(S).

8- STATIONING MAY BE ADJUSTED AS DIRECTED TO AVOID UTILITY OR STRUCTURAL CONFLICTS NOT INDICATED IN THE PLANS.

9- SIDEWALK SLABS DAMAGED DURING CONSTRUCTION SHALL BE REPLACE INFULL AND COLORED WHERE NECESSARY TO MATCH THE EXISTING SIDEWALK.

10- ALL MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE UNDERWRITERS LABORATORY APPROVED.

11- THE WIRES AT THE PULL BOXES SHALL BE LOOPED UP IN PULL BOXES WITH SUFFICIENT LENGTH TO COMPLETELY REMOVE CONNECTORS TO THE OUTSIDE, TO MAKE THEM ACCESSIBLE FOR CHANGING FUSES AND TROUBLE SHOOTING THE SYSTEM.

12- THE LUMINARIES MANUFACTURER SHALL PLACE A PERMANENT TAG ON THE LUMINAIRE HOUSING ON WHICH IS IMPRINTED THE FOLLOWING INFORMATION: WATTAGE, BALLAST TYPE, LAMP SHOWN ON DESIGN PLANS, LAMP SETTING (POSITION IN LUMINARIES) IES LIGHT DISTRIBUTION WITH THE LAMP IN THE POSITION SPECIFIED INPUT VOLTAGE AND POWER FACTOR LUMINARIES PHOTO METRIC SUBMITTALS REQUIRED

13- GROUND RODS SHALL HAVE A RESISTANCE TO GROUND NOT TO EXCEEDED 25 OHMS WHERE THE RESISTANCE IS NOT AS LOW AS 25 OHMS, TWO OR MORE GROUND RODS CONNECTED IN PARALLEL SHALL BE USED.

14- INCIDENTAL ITEMS OR ACCESSORIES REQUIRED TO COMPLETE THE WORK FOR EACH ITEM BID, SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THAT SPECIFIC ITEM AS INDICATED IN THE BID FORM, SUCH AS, BUT NOT LIMITED TO: ELBOWS, SPLIT BOLT CONNECTORS, FUSES & FUSE HOLDERS, ELECTRICAL TAPE, SCOTCHKOTE, P.V.C. GLUE, TRENCHING, BACKFILLING, PAVEMENT RESTORATION, CONCRETE SLAB REPLACEMENT ETC.

FIXTURE SHEDULE

TYPE	MANUFACTURER	DESCRIPTION	CATALOG No.	LAMP	VOLT	REMARK
A	KIM LIGHTING	KIM LIGHTING OR APPROVED EQUAL	SCARAB 6545	70MH	120V	RECESS
B	SCHREDER	PEDESTRIAN LTG OR APPROVED EQUAL	MH-PAR38-150 240 EQ 9011ELB	150MH	240V	12'POLE
C	SCHREDER	ILLUMIN. FOR SAIL OR APPROVED EQUAL	MHT6-70 METAL HALIDE LAMP	70MH	120V	15' FROM SAIL POLE
C1	SCHREDER	ILLUMIN. FOR SAIL OR APPROVED EQUAL	MHT6-150 METAL HALIDE LAMP	150MH	120V	20' FROM SAIL POLE

ALL LIGHTING FIXTURES INSTALLATION AND CONTROLS SHALL BE INSTALLED PER MANUF. RECOMENDATIONS BY LIGHTING SUPPLIER/CONTRATCOR VERIFY EXACT LOCATION PRIOR ORDERING AND INSTALLATION.

MANUEL De JESUS CARBONELL
LICENSE
No. 65584
STATE OF FLORIDA
PROFESSIONAL ENGINEER

REVISIONS	
DESCRIPTION	DATE
1.	
2.	
3.	
4.	

APPROVED BY:

Manuel J. Carbonell, P.E.
REGISTERED ENGINEER NO. 65854
STATE OF FLORIDA
DATE:

C3TS
CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A.
ENGINEERS·ARCHITECTS·PLANNERS
901 PONCE DE LEON BLVD., SUITE 900
CORAL GABLES, FLORIDA 33134
MIAMI (305)-445-2900 FLORIDA (800)-448-0227
FL REGISTRATIONS: EB0005022 AAC002142

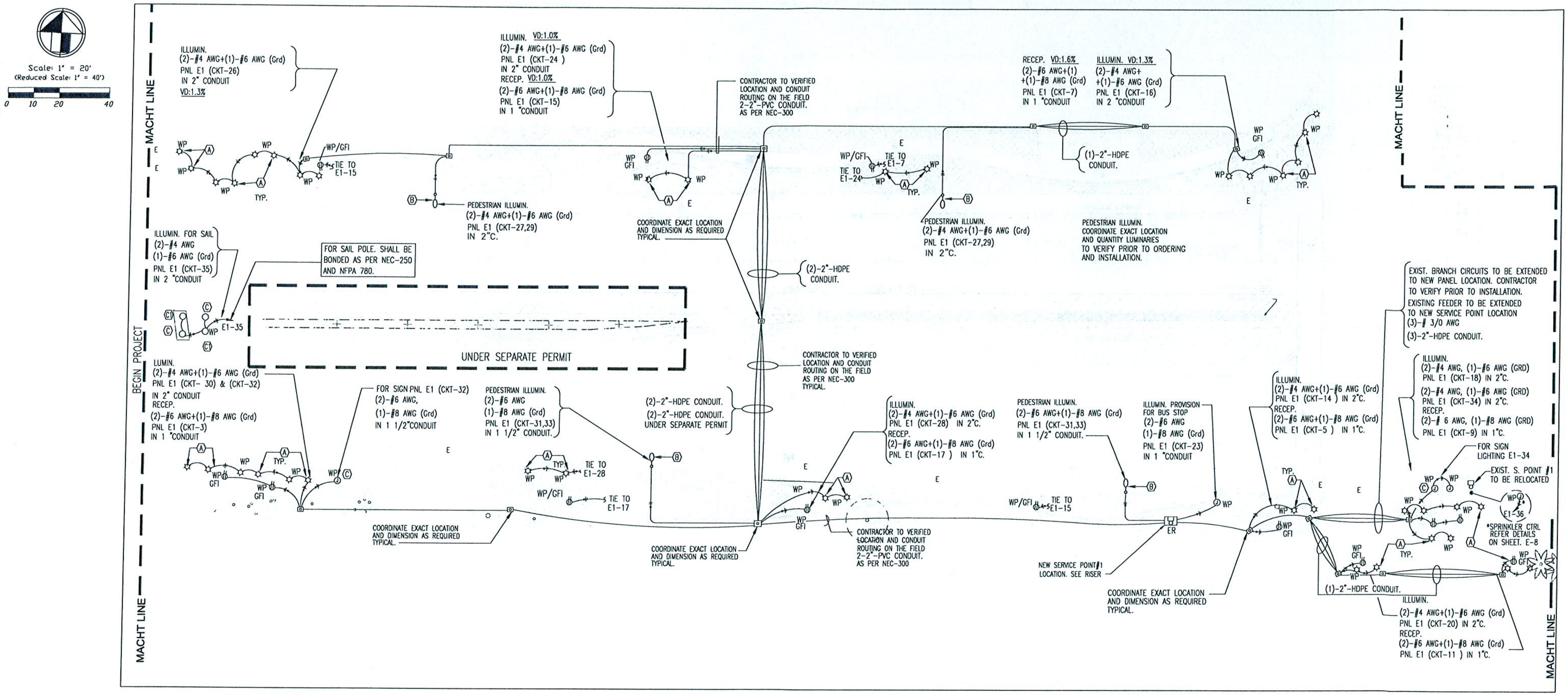
DATE:	9/9/09
DRAWN:	RM
DESIGNED:	CH
CHECKED:	RC
QC:	RC
CADD FILE:	1344-001

CITY OF NORTH BAY VILLAGE

JF KENNEDY CAUSEWAY
(79 STREET CAUSEWAY)
IMPROVEMENTS PHASE I

1344-001

SHEET NO.
E-1



LANDSCAPE LIGHTING PLAN

GENERAL LIGHTING NOTES

1. REFER TO LANDSCAPE LIGHTING AND CIVIL DWGS FOR EXACT LOCATION OF LUMINAIRES (LIGHT FIXTURES).
2. ALL BRANCH CIRCUITS SHALL BE SIZED IN ACCORDANCE WITH N.E.C-210 REGARDLESS OF SIZES SHOWN ON PLANS OR PANEL SCHEDULES.
3. MANUFACTURER AND CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER VENTILATION AND TEMPERATURE CONDITIONS OF LUMINAIRES (LIGHT FIXTURES).
4. ALL LIGHTING FIXTURES INSTALLATION AND CONTROLS SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS AND LTG SUPPLIER.
5. CONTRACTOR SHALL VERIFY EXACT LOCATION FOR EACH LUMINAIRE (LIGHT FIXTURE) AND TYPE.
6. PRIOR TO ROUGH-IN OF ELECTRICAL DEVICES COORDINATE EXACT LOCATION AND MOUNTING HEIGHTS .
7. ALL EXTERIOR LUMINAIRES (LIGHT FIXTURES) SHALL BE U.L. LABEL FOR DAMP WET LOCATIONS.
9. ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE LOCAL OR NATIONAL CODES AND WITH THE UTILITY COMPANY REGULATIONS.
10. ALL WIRING SHALL BE COLOR CODED AS PER NEC. COLOR CODING SHALL BE MAINTAINED THROUGHOUT THE SYSTEM.

LETTER DESIGNATION

E - EXISTING TO REMAIN
ER - EXISTING RELOCATED
(SHOWN IN NEW LOCATION)

ALL DEVICES ARE NEW UNLESS OTHERWISE INDICATED BY SYMBOLS ABOVE.

ALL EXISTING RECEPTACLES SHALL BE REPLACED WITH NEW G.F.C.I.

ADDITIONAL NOTES

THE EXISTING BRANCH CIRCUIT NUMBERS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY. THE CONTRACTOR SHALL RE-USE ALL POSSIBLE EXISTING BRANCH CIRCUITS SERVING THIS AREA. PROVIDE NEW TYPED PANEL SCHEDULES FOR EACH RESPECTIVE PANEL USED.

MANUEL De JESUS CARBONELL
LICENSE
No 65684
STATE OF FLORIDA
PROFESSIONAL ENGINEER

REVISIONS	
DESCRIPTION	DATE
1.	
2.	
3.	
4.	

APPROVED BY:

Manuel J. Carbonell, P.E.
REGISTERED ENGINEER NO. 65854
STATE OF FLORIDA
DATE:

CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A.
ENGINEERS·ARCHITECTS·PLANNERS
901 PONCE DE LEON BLVD., SUITE 900
CORAL GABLES, FLORIDA 33134
MIAMI (305)-445-2900 FLORIDA (800)-448-0227
FL REGISTRATIONS: EB0005022 AA0002142

DATE:	9/9/09
DRAWN:	RM
DESIGNED:	CH
CHECKED:	RC
QC:	RC
CADD FILE:	1344-001

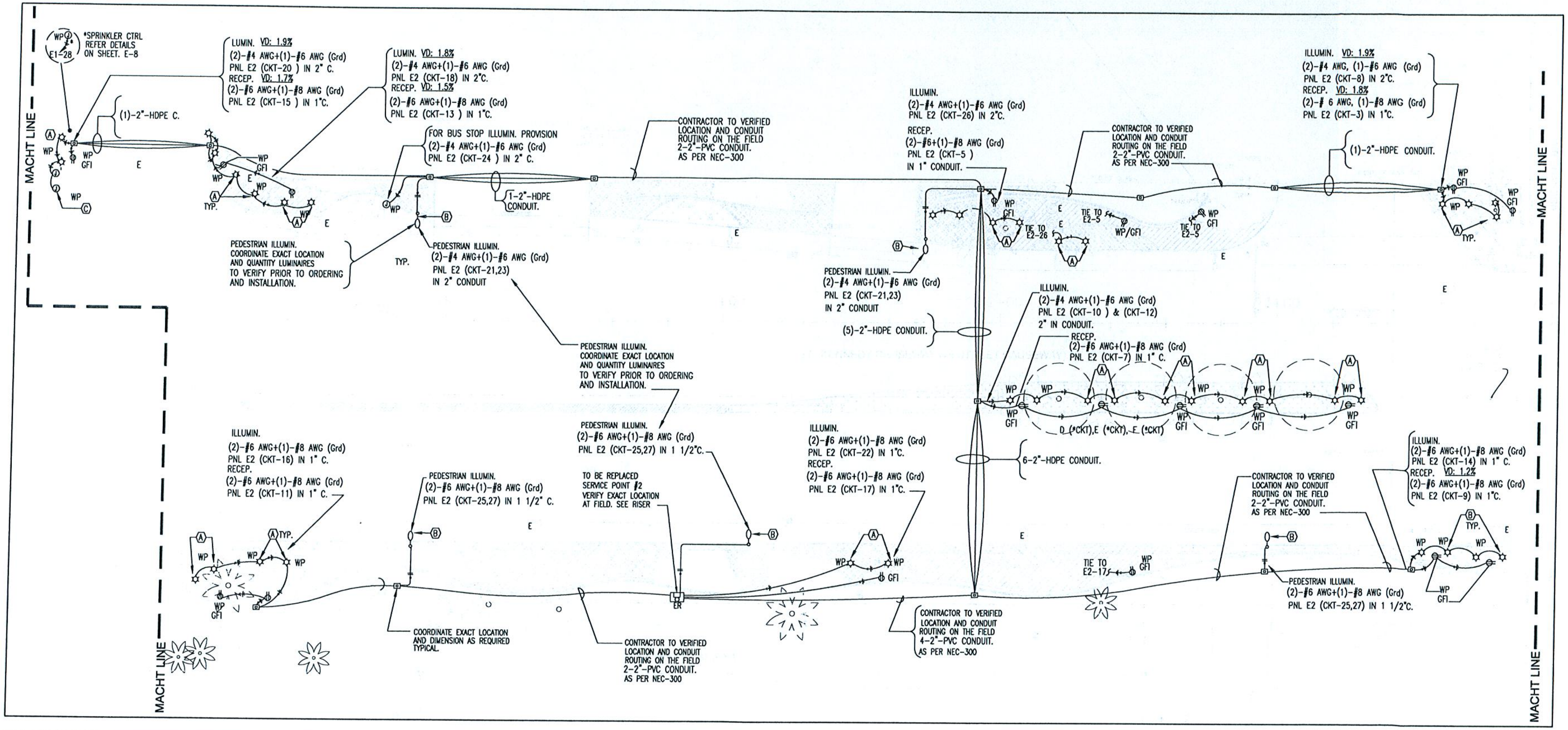
CITY OF NORTH BAY VILLAGE

JF KENNEDY CAUSEWAY
(79 STREET CAUSEWAY)
IMPROVEMENTS PHASE I

1344-001

SHEET NO.
E-2

Scale: 1" = 20'
(Reduced Scale: 1" = 40')
0 10 20 40



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10. ALL WIRING SHALL BE COLOR CODED AS PER NEC. COLOR CODING SHALL BE MAINTAINED THROUGHOUT THE SYSTEM.
11. ALL DUPLEX RECEPTACLES (G.F.I.) SHALL BE PROVIDE WITH COVER PLATES.

LETTER DESIGNATION

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ER - EXISTING RELOCATED
(SHOWN IN NEW LOCATION)

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MANUEL De JESUS CARBONELL
LICENSE No. 65854
STATE OF FLORIDA
PROFESSIONAL ENGINEER

REVISIONS	
DESCRIPTION	DATE
1.	
2.	
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4.	

APPROVED BY:

Manuel J. Carbonell, P.E.
REGISTERED ENGINEER NO. 65854
STATE OF FLORIDA
DATE:

CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A.
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FL REGISTRATIONS: EB0005022 AAC002142

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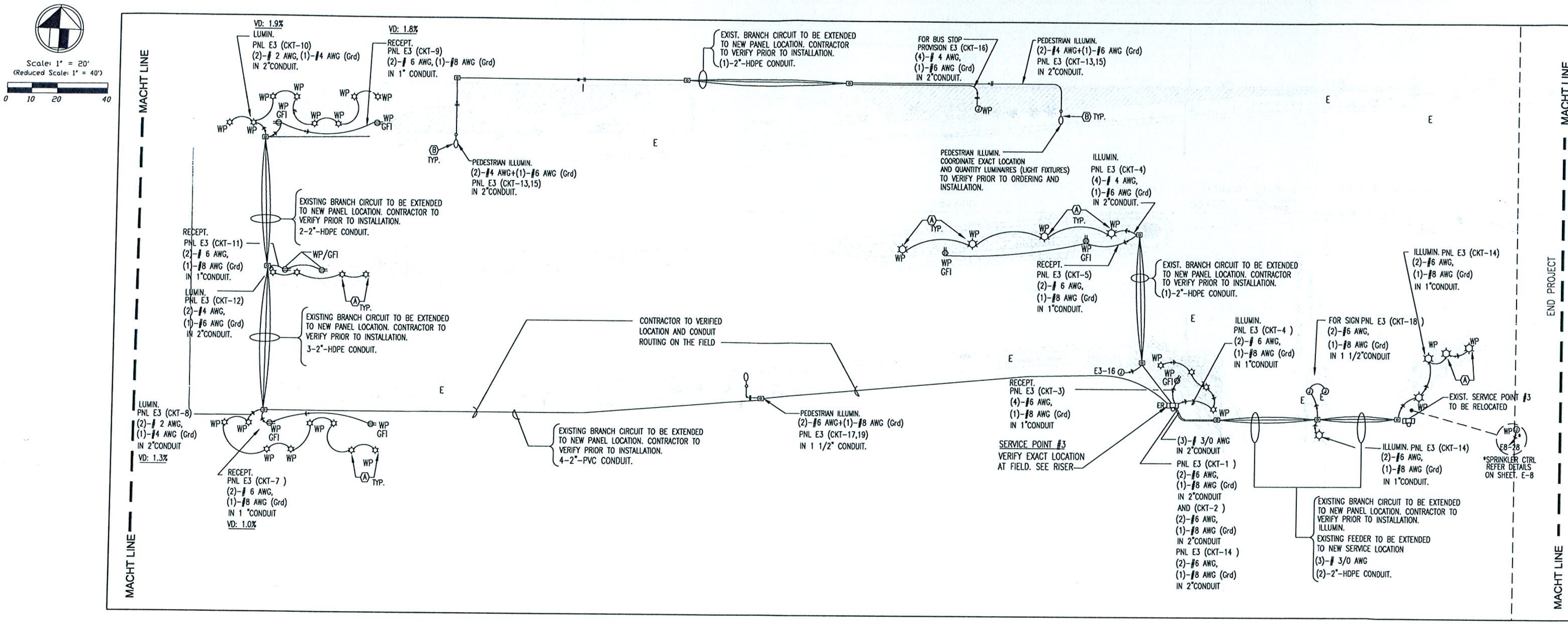
CITY OF NORTH BAY VILLAGE

JF KENNEDY CAUSEWAY
(79 STREET CAUSEWAY)
IMPROVEMENTS PHASE I

1344-001

SHEET NO.
E-3



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MANUEL De JESUS CARBONELL
LICENSE No. 65584
STATE OF FLORIDA
PROFESSIONAL ENGINEER

REVISIONS	
DESCRIPTION	DATE
1.	
2.	
3.	
4.	

APPROVED BY:
Manuel J. Carbonell, P.E.
REGISTERED ENGINEER NO. 65854
STATE OF FLORIDA
DATE:

CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A.
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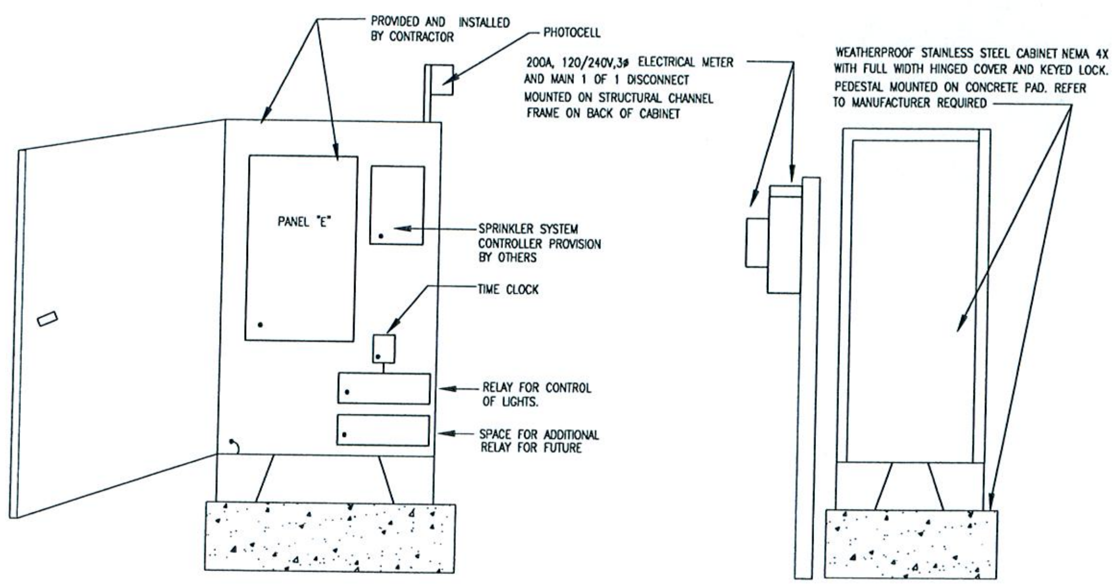
CITY OF NORTH BAY VILLAGE

JF KENNEDY CAUSEWAY
(79 STREET CAUSEWAY)
IMPROVEMENTS PHASE I

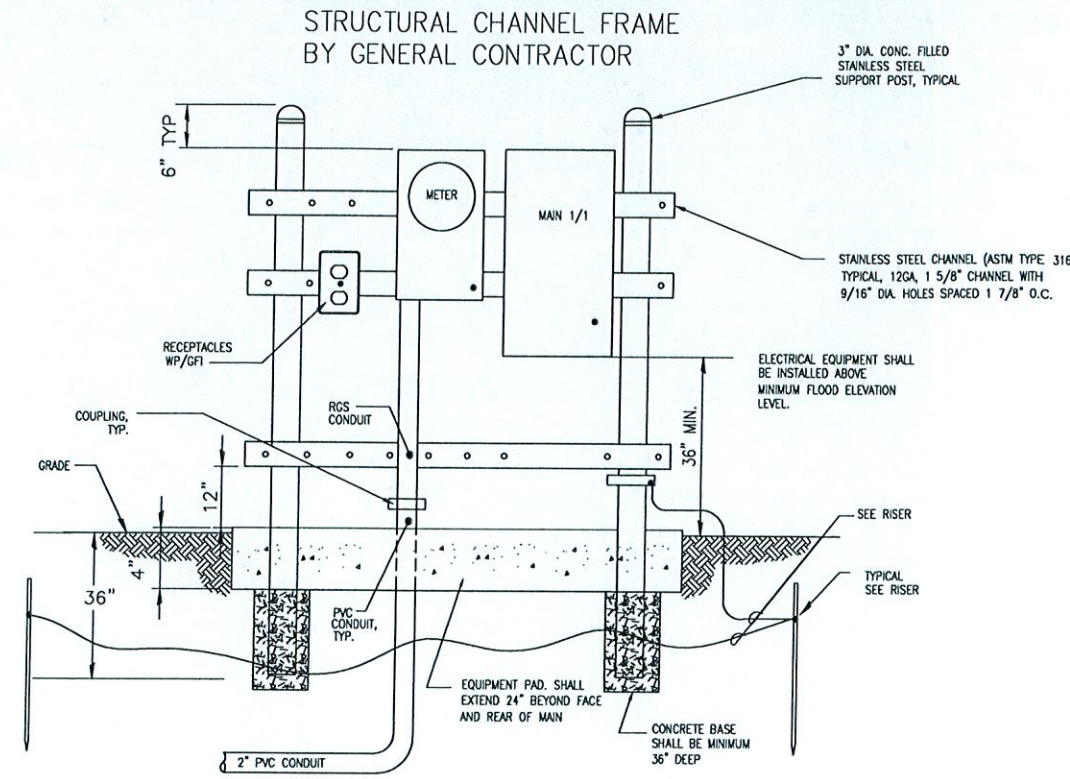
1344-001

SHEET NO.
E-4



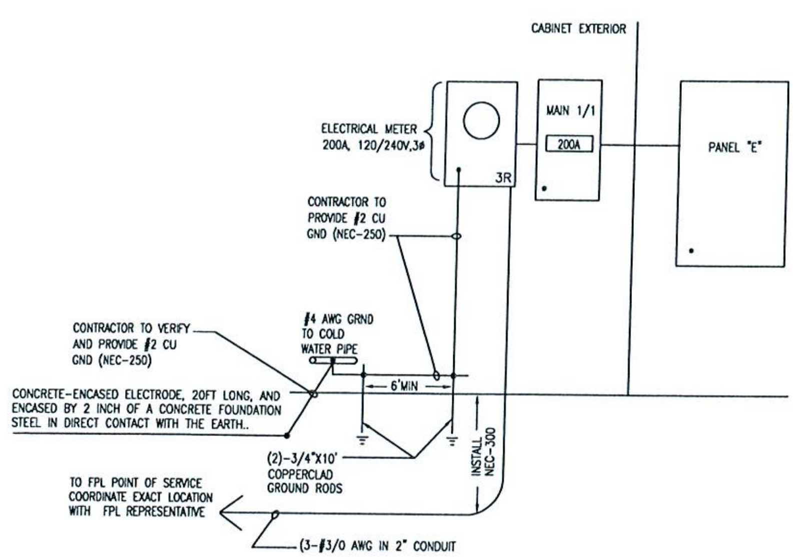
TYPICAL ELECTRICAL SERVICE POINT

N.T.S.



EQUIPMENT RACK (SAME AS RISER DIAGRAM)

N.T.S.



NEW ELECTRICAL RISER DIAGRAM

NTS

UTILITY SERVICE NOTES:

1. COORDINATE NEW SERVICE REQUIREMENTS WITH POWER CO. PRIOR TO COMMENCEMENT OF WORK.
2. METER INSTALLATION CONNECTION AND ALL WORK RELATED TO ELECTRICAL POWER SERVICE SHALL BE COORDINATED WITH UTILITY REPRESENTATIVE.
3. PRIOR TO INSTALLATION OF ROUGH ELECTRICAL WIRING, CHECK NAME PLATE DATA EQUIPMENT INVOLVED TO OBTAIN CORRECT SIZES OVER CURRENT PROTECTION.
4. ELECTRICAL INSTALLATION SHALL CONFORM TO N.E.C. FOR DEDICATED SPACE CLEARANCES AND GROUNDING REQUIREMENTS.
5. THE AVAILABLE FAULT CURRENT FROM THE UTILITY POWER COMPANY IS TO BE VERIFIED FOR PROPER A.I.C.S. RATING OF ELECTRICAL SERVICE EQUIPMENT AND PANELS. SHOP DRAWING SUBMITTAL TO INCLUDE A.I.C.S. RATING AND LETLER FROM THE UTILITY POWER COMPANY STATING. THE AVAILABLE FAULT.
6. ALL EQUIPMENT TO BE MOUNTED ABOVE FLOOD CRITERIA.

ADDITIONAL NOTES

E.C. TO TO COORDINATE EXACT LOCATION, EQUIPMENT DIMENSION AND FOUNDATION LOCATION PRIOR TO ODERING AND INSTALLATION.

THE ENCLOSURE DOOR SHALL BE LOCKABLE BY PADLOCK AND FOUR KEYS PROVIDED TO THE MAINTAINING AGENCY.
THE DOOR SHALL HAVE A MINIMUM OF THREE HINGES AND BE LATCHABLE. NO SCREWS TO BE USED TO ATTACH DOOR.

LIGHTNING PROTECTOR (600V). SHALL BE WIRED INSIDE THE ENCLOSURE. ALL SERVICE EQUIPMENT SHALL BE U.L. APPROVED.

CONTRACTOR SHALL PROVIDE MEANS OF SCREENING EQUIPMENT FROM PUBLIC VIEW AS DIRECTED BY MEET CITY CODE.

PROVIDE GROUNDING BONDING AND CONNECTIONS AS PER NEC . 250-32.

(•)CONTRACTOR TO PROVIDE AND VERIFY EQUIPMENT GROUNDING CONDUCTOR AS PER NEC-250-122

PROVIDE DISCONNECT IDENTIFICATION PLAQUES AS PER. NEC. 225-37.

CONTRACTOR SHALL REORGANIZE ALL LISTING BRANCH CIRCUIT APPROVED A NEW TAPE PANEL INDEX.

VERIFY AND PROVIDE RACK STRUCTURE FOR ALL DEVICE AS REQUIRED.

MANUEL DE JESUS CARBONELL
LICENSE
No. 65854
STATE OF FLORIDA
PROFESSIONAL ENGINEER

REVISIONS		APPROVED BY:
DESCRIPTION	DATE	Manuel J. Carbonell, P.E.
1.		REGISTERED ENGINEER NO. 65854
2.		STATE OF FLORIDA
3.		DATE:
4.		

CORZO CASTELLA CARBALLO THOMPSON SALMAN P.A.
ENGINEERS·ARCHITECTS·PLANNERS
901 PONCE DE LEON BLVD., SUITE [illegible]
CORAL GABLES, FLORIDA [illegible]
MIAMI (305)-445-2900 FLORIDA (800)-[illegible]
FL REGISTRATIONS: EB0005022 [illegible]
C3TS

DATE:	9/9/09
DRAWN:	RM
DESIGNED:	CH
CHECKED:	RC
QC:	RC
CADD FILE:	1344-001

CITY OF NORTH BAY VILLAGE

JF KENNEDY CAUSEWAY (79 STREET CAUSEWAY) IMPROVEMENTS PHASE I

1344-001

SHEET NO.
E-5

TYPE: SELECTED BY EC
MOUNTING: SURFACE
LOCATION: COORDINATE BY EC
FEEDER: SEE RISER

NEW PANEL E1
(SERVICE POINT #1)

MAINS AMPS: 200 AMP
TYPE MAINS: M.L.O 3
VOLTS: 120/240V.,1 ø.,3W.
AIC: 22K AIC

NO.	POLE	KVA	DESCRIPTION	WIRE, C	NO.	POLE	KVA	DESCRIPTION	WIRE, C
1	1/30	2.20	EXISTING LOAD TO REMAIN AS IS 2 1	EXISTING TO REMAIN	2	1/20	1.200	EXISTING LOAD TO REMAIN AS IS 2 1	EXISTING TO REMAIN
3	1/20	.360	NEW RECEPTACLES LOAD		4	1/20	1.200	EXISTING LOAD TO REMAIN AS IS 2 1	EXISTING TO REMAIN
5	1/20	.360	NEW RECEPTACLES LOAD	SEE LTG PLAN	6	1/20	1.200	EXISTING LOAD TO REMAIN AS IS 2 1	EXISTING TO REMAIN
7	1/20	.360	NEW RECEPTACLES LOAD	SEE LTG PLAN	8	1/20	1.200	EXISTING LOAD TO REMAIN AS IS 2 1	EXISTING TO REMAIN
9	1/20	.360	NEW RECEPTACLES LOAD	SEE LTG PLAN	10	1/20	1.200	EXISTING LOAD TO REMAIN AS IS 2 1	EXISTING TO REMAIN
11	1/20	.360	NEW RECEPTACLES LOAD	SEE LTG PLAN	12	1/30	1.200	EXISTING LOAD TO REMAIN AS IS 2 1	EXISTING TO REMAIN
13	1/20	.180	NEW RECEPTACLE LOAD FOR STRUCTURAL FRAME	SEE LTG PLAN	14	1/20	.500	NEW LIGHTING LOAD 4	SEE LTG PLAN
15	1/20	.540	NEW RECEPTACLES LOAD	SEE LTG PLAN	16	1/30	.800	NEW LIGHTING LOAD 4	SEE LTG PLAN
17	1/20	.540	NEW RECEPTACLES LOAD	SEE LTG PLAN	18	1/20	1.200	NEW LIGHTING LOAD 4	SEE LTG PLAN
19	1/20	1.200	EXISTING LOAD TO REMAIN AS IS 2 1	UNDER S. CONTRACT	20	1/20	.600	NEW LIGHTING LOAD 4	SEE LTG PLAN
21	1/20	1.200	EXISTING LOAD TO REMAIN AS IS 2 1	UNDER S. CONTRACT	22	1/20	.900	EXISTING LOAD TO REMAIN AS IS 2 1	UNDER S. CONTRACT
23	1/20	.500	NEW LIGHTING LOAD (BUS STOP PROVISION) 4	SEE LTG PLAN	24	1/20	.400	NEW LIGHTING LOAD 4	SEE LTG PLAN
25	1/20	.500	NEW LIGHTING LOAD (SIGN PROVISION) 4	SEE LTG PLAN	26	1/30	1.200	NEW LIGHTING LOAD 4	SEE LTG PLAN
27	2/20	.300	NEW LIGHTING LOAD (PEDESTRIAN LTG) 4	SEE LTG PLAN	28	1/20	.600	NEW LIGHTING LOAD 4	SEE LTG PLAN
29					30	1/30	.900	NEW LIGHTING LOAD 4	SEE LTG PLAN
31	2/20	.300	NEW LIGHTING LOAD (PEDESTRIAN LTG) 4	SEE LTG PLAN	32	1/20	.900	NEW LIGHTING LOAD (FOR ILLUMIN. SIGN) 4	SEE LTG PLAN
33					34	1/20	.900	NEW LIGHTING LOAD (FOR ILLUMIN. SIGN) 4	SEE LTG PLAN
35	1/20	.500	NEW LIGHTING LOAD (SIGN PROVISION) 4	--	36	1/20	.500	SPRINKLER CONTROL SYSTEM (BY OTHERS) 4	SEE LTG PLAN
37	--	--	SPACE	--	38	--	--	SPACE	
39	--	--	SPACE	--	40	--	--	SPACE	
40	--	--	SPACE	--	42	--	--	SPACE	

TOTAL CONNECTED LOAD: SEE LOAD ANALYSIS

1. EXISTING BRANCH CIRCUIT TO BE EXTENDED TO NEW PANEL SERVICE POINT LOCATION. PROVIDE NEW CONDUIT AND WIRING AS NOTED
2. CONTRACTOR SHALL VERIFY AND PROVIDE ACTUAL APPLICABLE BRANCH SERVING RELOCATED LOADS PRIOR TO PROCEED.
3. VERIFY WITH EQUIPMENT PLATE PRIOR TO ORDERING AND INSTALLATION.
4. CONTROLLED FOR COMBINATION OF PHOTOCELL AND TIMER CLOCK

TYPE: SELECTED BY EC
MOUNTING: SURFACE
LOCATION: COORDINATE BY EC
FEEDER: SEE RISER

NEW PANEL E2
(SERVICE POINT #2)

MAINS AMPS: 200 AMP
TYPE MAINS: M.L.O 3
VOLTS: 120/240V.,1 ø.,3W.
AIC: 22K AIC

NO.	POLE	KVA	DESCRIPTION	WIRE, C	NO.	POLE	KVA	DESCRIPTION	WIRE, C
1	1/20	1.200	EXISTING LOAD TO REMAIN AS IS 2 1	EXISTING TO REMAIN	2	2	2.000	EXISTING LOAD TO REMAIN AS IS 2 1	EXISTING TO REMAIN
3	1/20	.360	NEW RECEPTACLES LOAD	SEE LTG PLAN	4				EXISTING TO REMAIN
5	1/20	.540	NEW RECEPTACLES LOAD		6	1/20	1.20	EXISTING LOAD TO REMAIN AS IS	SEE LTG PLAN
7	1/20	1.080	NEW RECEPTACLES LOAD	SEE LTG PLAN	8	1/20	.600	NEW LIGHTING LOAD 4	SEE LTG PLAN
9	1/20	.360	NEW RECEPTACLES LOAD	SEE LTG PLAN	10	1/20	.800	NEW LIGHTING LOAD 4	SEE LTG PLAN
11	1/20	.360	NEW RECEPTACLES LOAD	SEE LTG PLAN	12	1/20	.800	NEW LIGHTING LOAD 4	SEE LTG PLAN
13	1/20	.360	NEW RECEPTACLES LOAD	SEE LTG PLAN	14	1/20	.600	NEW LIGHTING LOAD 4	SEE LTG PLAN
15	1/20	.360	NEW RECEPTACLES LOAD	SEE LTG PLAN	16	1/20	.600	NEW LIGHTING LOAD 4	SEE LTG PLAN
17	1/20	.360	NEW RECEPTACLES LOAD	SEE LTG PLAN	18	1/20	.900	NEW LIGHTING LOAD 4	SEE LTG PLAN
19	1/20	.180	NEW RECEPTACLE LOAD FOR STRUCTURAL FRAME	SEE LTG PLAN	20	1/20	.300	NEW LIGHTING LOAD 4	SEE LTG PLAN
21	2/20	.300	NEW LIGHTING LOAD (PEDESTRIAN LTG)	SEE LTG PLAN	22	1/20	.300	NEW LIGHTING LOAD 4	SEE LTG PLAN
23					24	1/20	.900	NEW LIGHTING LOAD (BUS STOP PROVISION) 4	SEE LTG PLAN
25	2/20	.300	NEW LIGHTING LOAD (PEDESTRIAN LTG) 4	SEE LTG PLAN	26	1/20	.600	NEW LIGHTING LOAD 4	SEE LTG PLAN
27					28	1/20	.500	SPRINKLER CONTROL SYSTEM (BY OTHERS) 4	SEE LTG PLAN
29	--	--	SPACE	--	30	--	--	SPACE	--
31	--	--	SPACE	--	32	--	--	SPACE	--
33	--	--	SPACE	--	34	--	--	SPACE	--
35	--	--	SPACE	--	36	--	--	SPACE	--
37	--	--	SPACE	--	38	--	--	SPACE	--
39	--	--	SPACE	--	40	--	--	SPACE	--
40	--	--	SPACE	--	42	--	--	SPACE	--

TOTAL CONNECTED LOAD: SEE LOAD ANALYSIS

1. EXISTING BRANCH CIRCUIT TO BE EXTENDED TO NEW PANEL SERVICE POINT LOCATION. PROVIDE NEW CONDUIT AND WIRING AS NOTED
2. 000CONTRACTOR SHALL VERIFY AND PROVIDE ACTUAL APPLICABLE BRANCH SERVING RELOCATED LOADS PRIOR TO PROCEED.
3. VERIFY WITH EQUIPMENT PLATE PRIOR TO ORDERING AND INSTALLATION.
4. CONTROLLED FOR COMBINATION OF PHOTOCELL AND TIMER CLOCK

TYPE: SELECTED BY EC
MOUNTING: SURFACE
LOCATION: COORDINATE BY EC
FEEDER: SEE RISER

NEW PANEL E3
(SERVICE POINT #3)

MAINS AMPS: 200 AMP
TYPE MAINS: M.L.O 3
VOLTS: 120/240V.,1 ø.,3W.
AIC: 22K AIC

NO.	POLE	KVA	DESCRIPTION	WIRE, C	NO.	POLE	KVA	DESCRIPTION	WIRE, C
1	1/20	1.20	EXISTING LOAD TO REMAIN AS IS 2 1	EXISTING TO REMAIN	2	1/20	1.200	EXISTING LOAD TO REMAIN AS IS 2 1	EXISTING TO REMAIN
3	1/20	.360	NEW RECEPTACLES LOAD	SEE LTG PLAN	4	1/20	.600	NEW LIGHTING LOAD 4	SEE LTG PLAN
5	1/20	.360	NEW RECEPTACLES LOAD	SEE LTG PLAN	6	1/20	.600	NEW LIGHTING LOAD 4	SEE LTG PLAN
7	1/20	.360	NEW RECEPTACLES LOAD	SEE LTG PLAN	8	1/20	.600	NEW LIGHTING LOAD 4	SEE LTG PLAN
9	1/20	.360	NEW RECEPTACLES LOAD	SEE LTG PLAN	10	1/20	1.200	NEW LIGHTING LOAD 4	SEE LTG PLAN
11	1/20	.360	NEW RECEPTACLES LOAD	SEE LTG PLAN	12	1/20	.600	NEW LIGHTING LOAD 4	SEE LTG PLAN
13	2/20	.200	NEW LIGHTING LOAD (PEDESTRIAN LTG)	SEE LTG PLAN	14	1/20	.600	NEW LIGHTING LOAD 4	SEE LTG PLAN
15					16	1/20	.600	NEW LIGHTING LOAD (BUS STOP PROVISION) 4	SEE LTG PLAN
17	2/20	.200	NEW LIGHTING LOAD (PEDESTRIAN LTG)	SEE LTG PLAN	18	1/20	500	NEW LIGHTING LOAD (FOR ILLUMIN. SIGN) 4	SEE LTG PLAN
19					20	1/20	.500	SPRINKLER CONTROL SYSTEM (BY OTHERS) 4	SEE LTG PLAN
21	1/20	.360	NEW RECEPTACLE LOAD FOR STRUCTURAL FRAME		22	--	--	SPACE	--
23	--	--	SPACE	--	24	--	--	SPACE	--
25	--	--	SPACE	--	26	--	--	SPACE	--
27	--	--	SPACE	--	28	--	--	SPACE	--
29	--	--	SPACE	--	30	--	--	SPACE	--
31	--	--	SPACE	--	32	--	--	SPACE	--
33	--	--	SPACE	--	34	--	--	SPACE	--
35	--	--	SPACE	--	36	--	--	SPACE	--
37	--	--	SPACE	--	38	--	--	SPACE	--
39	--	--	SPACE	--	40	--	--	SPACE	--
41	--	--	SPACE	--	42	--	--	SPACE	--

TOTAL CONNECTED LOAD: SEE LOAD ANALYSIS

1. EXISTING BRANCH CIRCUIT TO BE EXTENDED TO NEW PANEL SERVICE POINT LOCATION. PROVIDE NEW CONDUIT AND WIRING AS NOTED
2. CONTRACTOR SHALL VERIFY AND PROVIDE ACTUAL APPLICABLE BRANCH SERVING RELOCATED LOADS PRIOR TO PROCEED.
3. VERIFY WITH EQUIPMENT PLATE PRIOR TO ORDERING AND INSTALLATION.
4. CONTROLLED FOR COMBINATION OF PHOTOCELL AND TIMER CLOCK

PANEL E1 — DEMAND LOAD ANALYSIS SERVICE POINT #1 — 120/240V.,1 ø.,3W.

LOAD TYPE	VA CONNECTED	(PERCENT) DEMAND FACTOR	VA DEMAND
CONTINUOUS LIGHTING	8,000 VA	1.25%	10,000 VA
RECEPTACLES	2,700 VA		2,700 VA
FOR FUTURE PROVISION	2,500 VA		2,500 VA
FOR SPRINKLER CNTRL	500 VA		500 VA
EXISTING TO REMAIN	12,700 VA		12,700 VA

28.84	DEMAND KVA
118	DEMAND AMPS

PANEL E3 — DEMAND LOAD ANALYSIS SERVICE POINT #3 — 120/240V.,1 ø.,3W.

LOAD TYPE	VA CONNECTED	(PERCENT) DEMAND FACTOR	VA DEMAND
CONTINUOUS LIGHTING	7,200 VA	1.25%	9,000 VA
RECEPTACLES	3,960 VA		3,960 VA
FOR FUTURE PROVISION	2,500 VA		2,500 VA
FOR SPRINKLER CNTRL	500 VA		500 VA
EXISTING TO REMAIN	3,200 VA		3,200 VA

19.16	DEMAND KVA
80	DEMAND AMPS

PANEL E2 — DEMAND LOAD ANALYSIS SERVICE POINT #2 — 120/240V.,1 ø.,3W.

LOAD TYPE	VA CONNECTED	(PERCENT) DEMAND FACTOR	VA DEMAND
CONTINUOUS LIGHTING	6,500 VA	1.25%	8,200 VA
RECEPTACLES	2,160 VA		2,160 VA
FOR FUTURE PROVISION	2,500 VA		2,500 VA
FOR SPRINKLER CNTRL	500 VA		500 VA
EXISTING TO REMAIN	2,400 VA		3,200 VA

16.56	DEMAND KVA
70	DEMAND AMPS

MANUEL DE JESUS CARBONELL
LICENSE No. 65854
STATE OF FLORIDA
PROFESSIONAL ENGINEER

REVISIONS	
DESCRIPTION	DATE
1.	
2.	
3.	
4.	

APPROVED BY:
Manuel J. Carbonell, P.E.
REGISTERED ENGINEER NO. 65854
STATE OF FLORIDA
DATE: ____________

CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A.
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901 PONCE DE LEON BLVD. SUITE 900
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MIAMI (305)-445-2900 [illegible]
FL REGISTRATIONS: [illegible] AAC002142

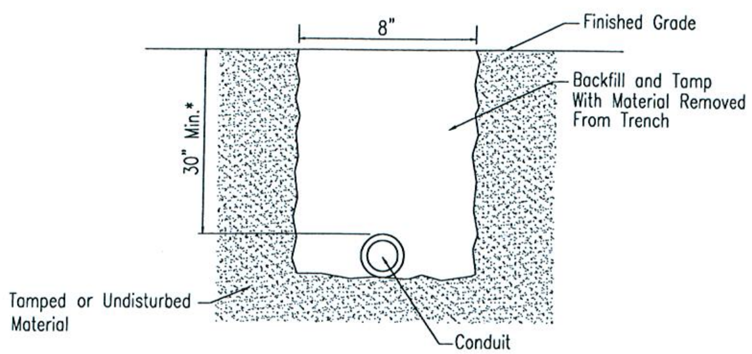
DATE:	9/9/09
DRAWN:	RM
DESIGNED:	CH
CHECKED:	RC
QC:	RC
CADD FILE:	1344-001

CITY OF NORTH BAY VILLAGE

JF KENNEDY CAUSEWAY
(79 STREET CAUSEWAY)
IMPROVEMENTS PHASE I

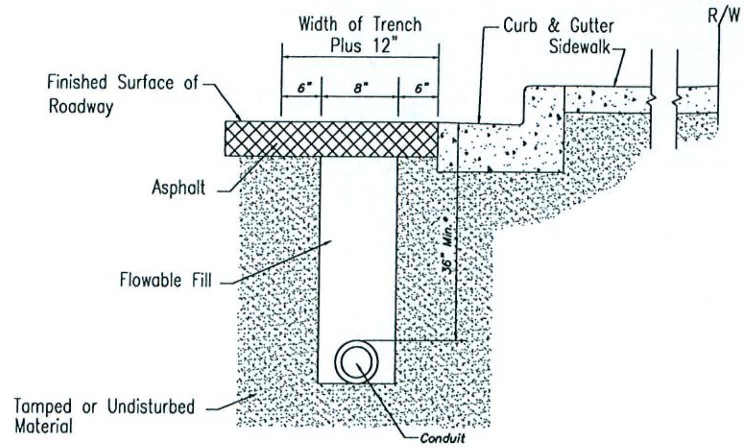
1344-001

SHEET NO.
E-6



FOR USE IN AREAS NOT EXPOSED TO VEHICULAR TRAFFIC AND UNDER DRIVEWAYS

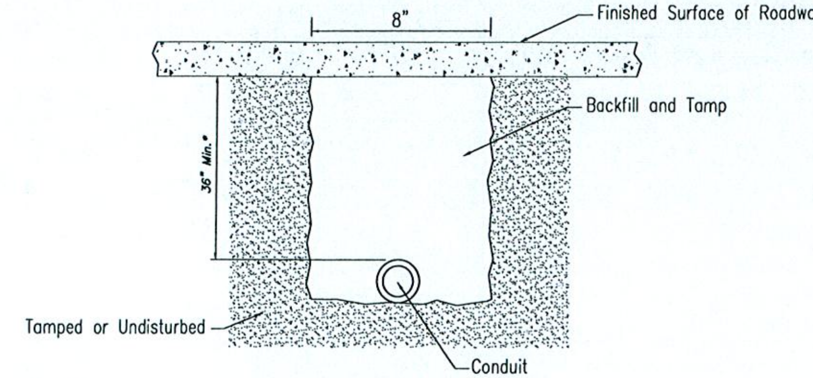
*May be adjusted due to field conditions upon approval of project engineer



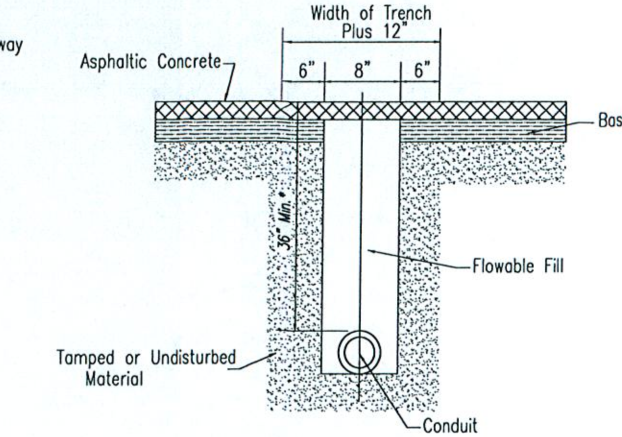
FOR USE IN ASPHALT ROADWAY ADJACENT TO GUTTER WHEN PLACEMENT OUTSIDE OF THE PAVEMENT IS NOT FEASIBLE

NOTES:

1. Trench not to be open more than 3' at a time when construction area is subject to vehicular or pedestrian traffic.
2. Asphalt to be sawcut and removed to leave neat lines on both sides of the 12" pavement cut.



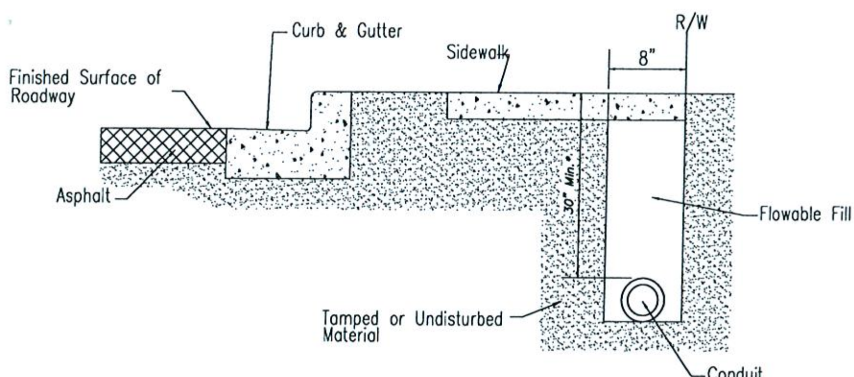
FOR USE INSTALLING CONDUIT UNDER A NEW ROADWAY PRIOR TO INSTALLATION OF CURBS, BASE AND PAVEMENT



FOR USE IN INSTALLING CONDUIT UNDER EXISTING ASPHALT PAVEMENT NOT ADJACENT TO GUTTER WHEN JACKING IS NOT FEASIBLE

NOTES:

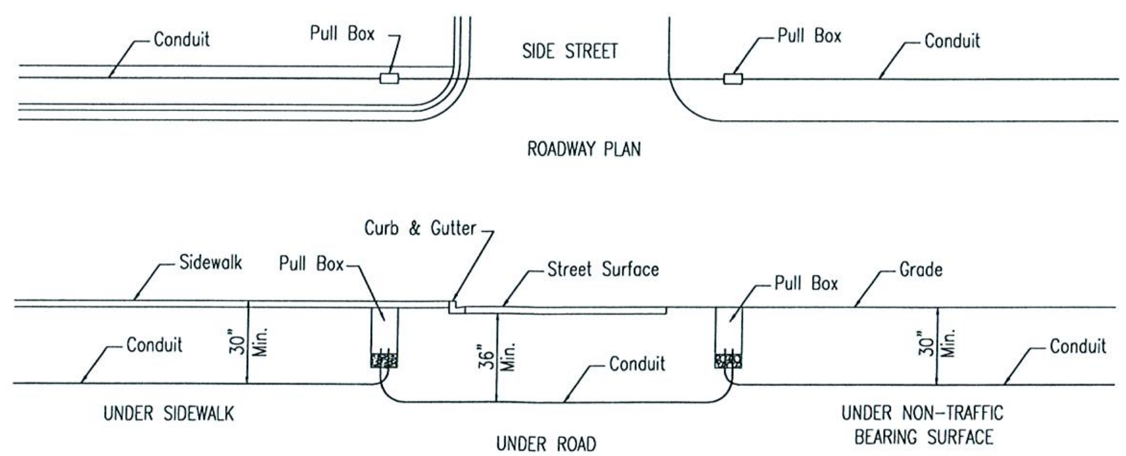
1. Rigid conduit must be used when jacking under existing pavement at 36" minimum depth.
2. Asphalt to be sawcut at the edges of the trench.
3. The removal and replacement of the additional pavement width (6") will not be required when the trench can be constructed without disturbing the asphalt surface on either side.



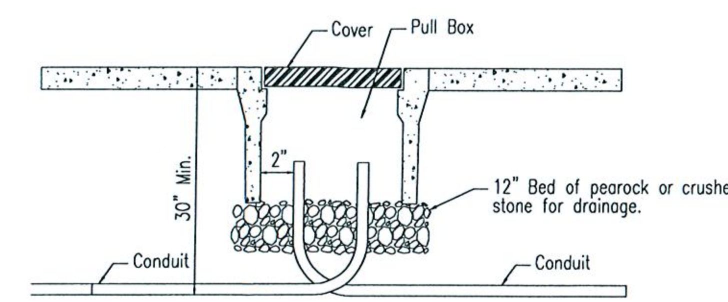
FOR USE IN INSTALLING CONDUIT UNDER SIDEWALK

NOTES:

1. Sidewalk patches to match existing joints.
2. Entire sidewalk slab must be replaced when specified in the plans.
3. Backfill and tamp with material from trench except at driveways. At driveways, backfill a length of trench within the driveway entirely with Flowable Fill.



NOTE:
One run of conduit (between pull boxes) shall not contain more than 360° of bend including pull box bends.



PULL BOX ENTRY FOR CONDUIT UNDER SIDEWALKS

MANUEL DE JESUS CARBONELL LICENSE No. 65854 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS		APPROVED BY:
DESCRIPTION	DATE	Manuel J. Carbonell, P.E. REGISTERED ENGINEER NO. 65854 STATE OF FLORIDA DATE:
1.		
2.		
3.		
4.		

CORZO CASTELLA CARBALLO THOMPSON SALMAN, P.A.
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MIAMI (305)-445-2900 FLORIDA (800)-448-0227
FL REGISTRATIONS: EB0005022 AAC002142

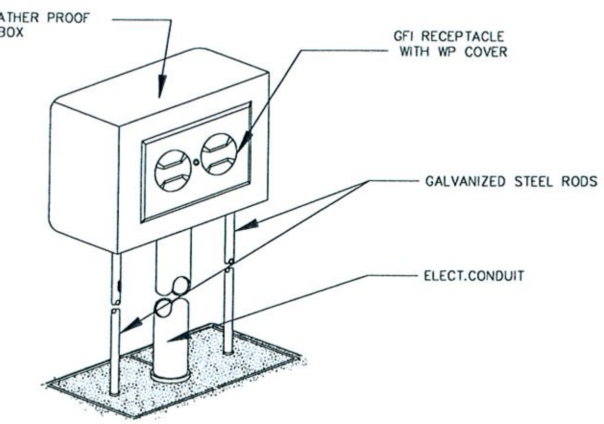
DATE:	9/9/09
DRAWN:	RM
DESIGNED:	CH
CHECKED:	RC
QC:	RC
CADD FILE:	1344-001

CITY OF NORTH BAY VILLAGE

JF KENNEDY CAUSEWAY (79 STREET CAUSEWAY) IMPROVEMENTS PHASE I

1344-001

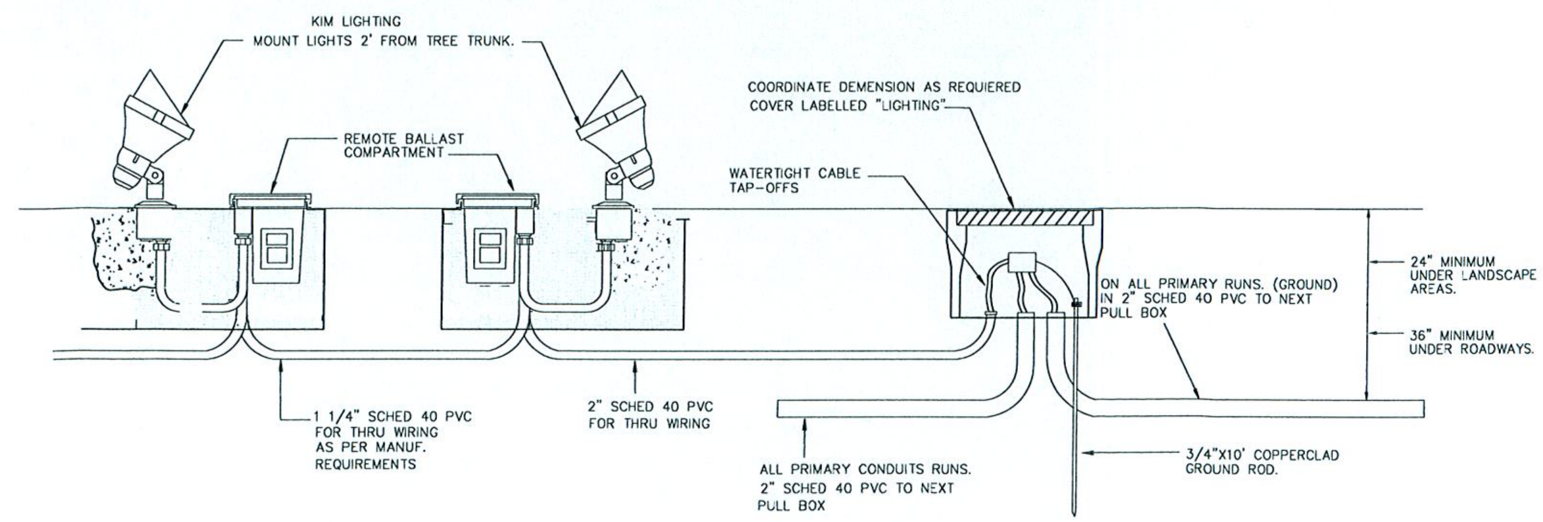
SHEET NO. E-7



PROVIDE WEATHER PROOF COVER WITH ATTACHMENT PLUG CAP INSERTED INTO RECEPTACLE ("IN-USE" TYPE)

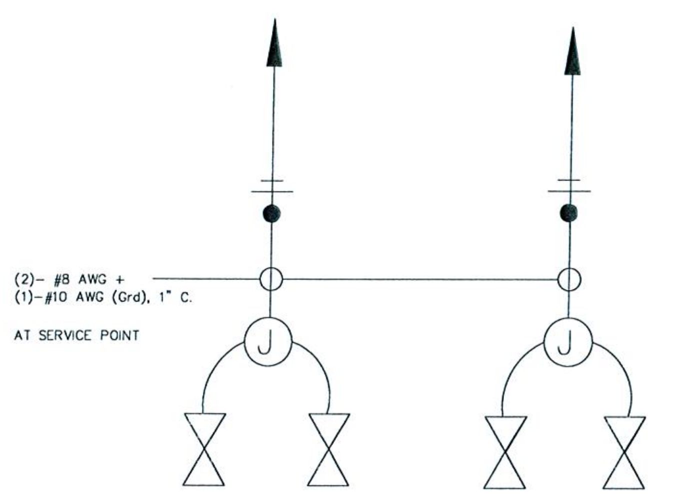
RECEPTACLE FOR LANDSCAPE AREA

N.T.S.



TYPICAL DETAIL FOR TREE LIGHTS WIRING

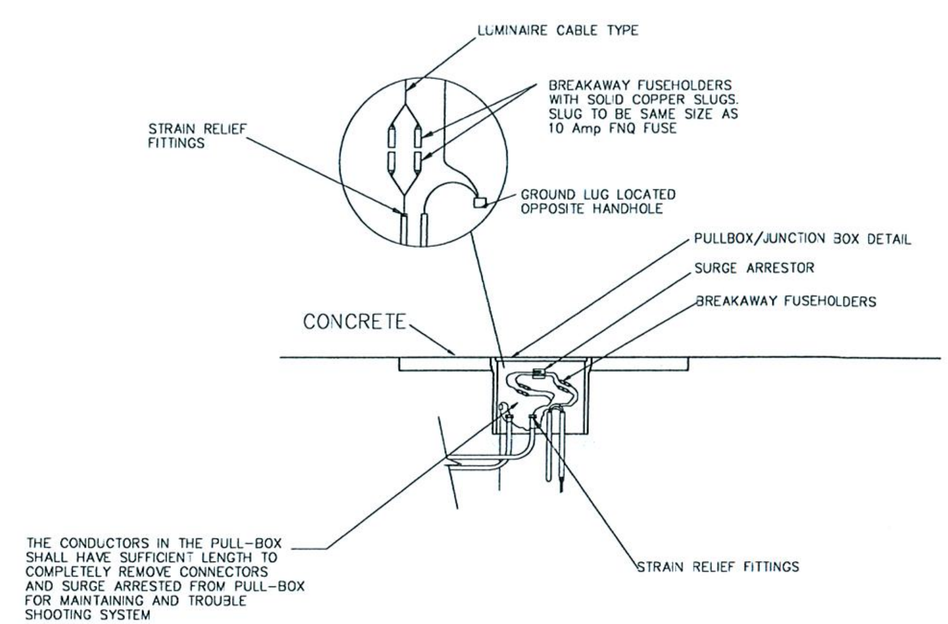
N.T.S.



TYPICAL SPRINKLER SYSTEM SOLENOID VALVES WIRING DETAIL

WIRING INDICATED MAY PASS THRU HANDHOLES FOR TREE LIGHTS

⋈ SOLENOID VALVE-FURNISHED AND INSTALLED BY LANDSCAPE CONTRACTOR-WIRED BY ELECTRICAL CONTRACTOR



PULLBOX/JUNCTION BOX DETAIL

N.T.S.

MANUEL De JESUS CARBONELL LICENSE No. 65584 STATE OF FLORIDA PROFESSIONAL ENGINEER

REVISIONS		APPROVED BY:
DESCRIPTION	DATE	Manuel J. Carbonell, P.E.
1.		REGISTERED ENGINEER NO. 65854
2.		STATE OF FLORIDA
3.		DATE:
4.		

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CITY OF NORTH BAY VILLAGE

JF KENNEDY CAUSEWAY (79 STREET CAUSEWAY) IMPROVEMENTS PHASE I

1344-001

SHEET NO.

E-8