

APPENDICES

- Appendix A: Project Map
- Appendix B: Work Breakdown Structure
- Appendix C: Organization Breakdown Structure
- Appendix D: Project Schedule
- Appendix E: Project Cost Estimate
- Appendix F: Project Funding Requirements
- Appendix G: Reporting
- Appendix H: Resource Allocation Plan
- Appendix I: Advanced Formulation Plan
- Appendix J: Engineering and Design Plan
- Appendix K: Construction Management Plan
- Appendix L: Real Estate Plan
- Appendix M: Acquisition Plan
- Appendix N: Quality Control Plan
- Appendix O: Water Quality and Permitting Plan
- Appendix P: Public Involvement Plan
- Appendix Q: Environmental Plan
- Appendix R: Value Engineering Plan
- Appendix S: Water Control Plan
- Appendix T: Operations and Maintenance Plan
- Appendix U: Socioeconomics Study Plan
- Appendix V: Environmental Justice Study Plan
- Appendix W: Restoration Coordination and Verification Documentation
- Appendix X: Project Cooperation Agreement
- Appendix Y: Summary of Work-In-Kind Services
- Appendix Z: Reference Documents and Forms

- Appendix AA: Summary of Changes
- Appendix BB: Picayune Strand State Forest Post-Restoration Road Plan
- Appendix CC: Log of Plan approval

Appendix A Project Maps

This section is reserved for maps and figures that will augment those presented in earlier sections of this PMP.

Appendix B

Work Breakdown Structure

This section is reserved for correspondences regarding the project phases, tasks, and subtasks. The current WBS is provided herein.

Work Breakdown Structure - SGGE

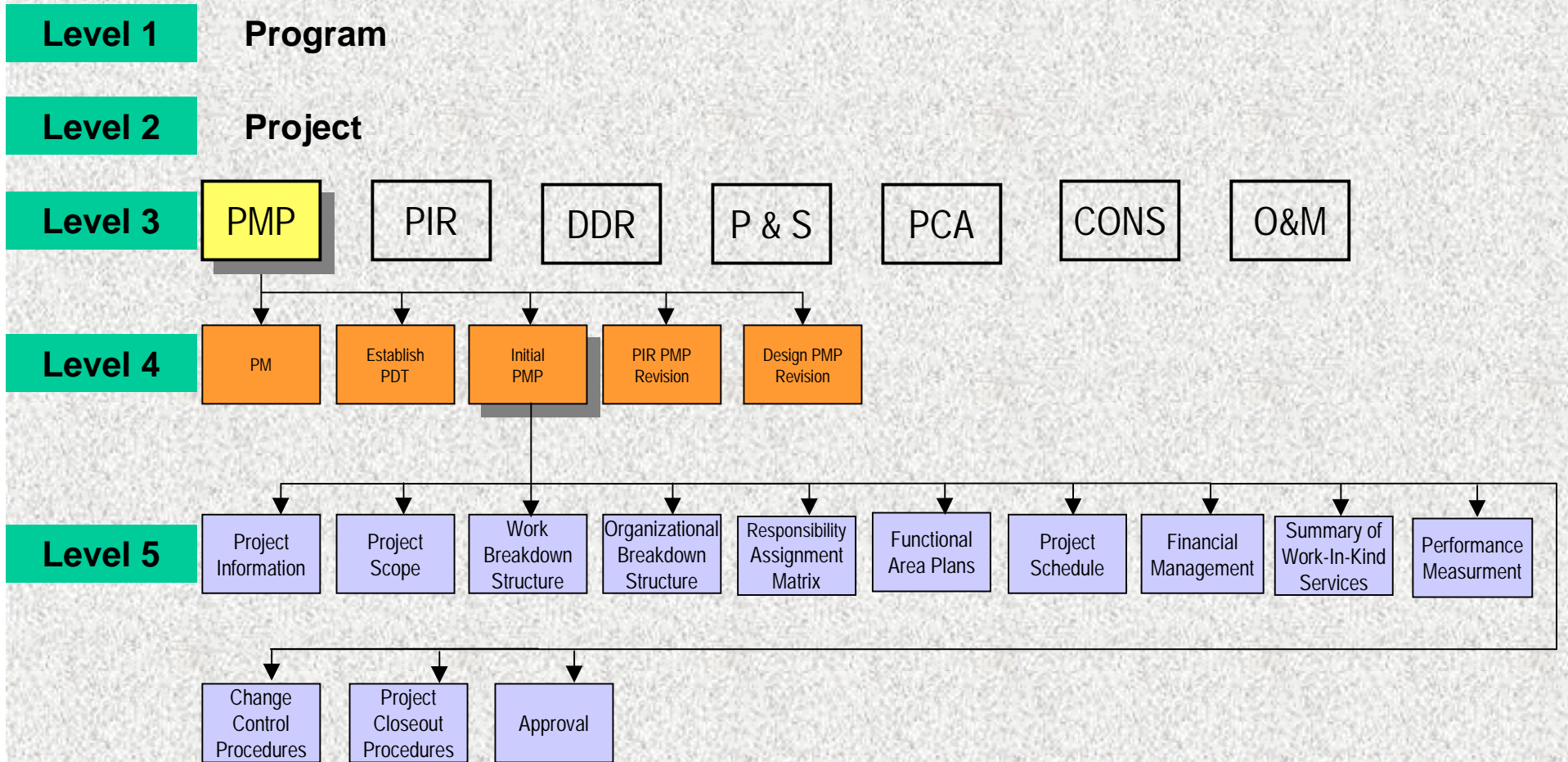
Level 1 Program

Level 2 Project

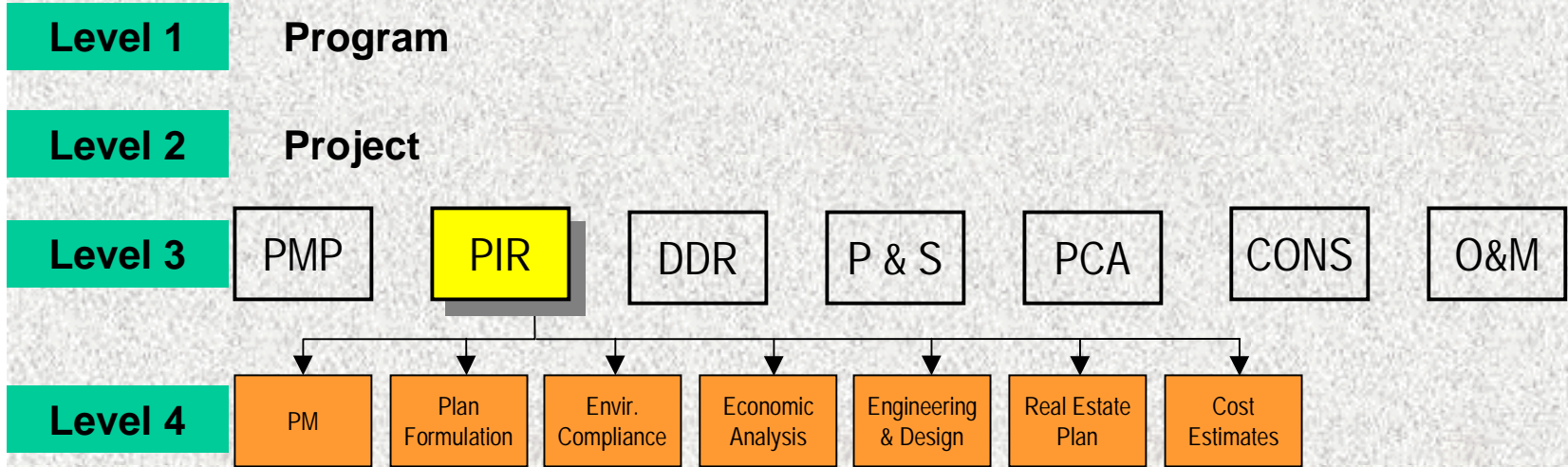
Level 3



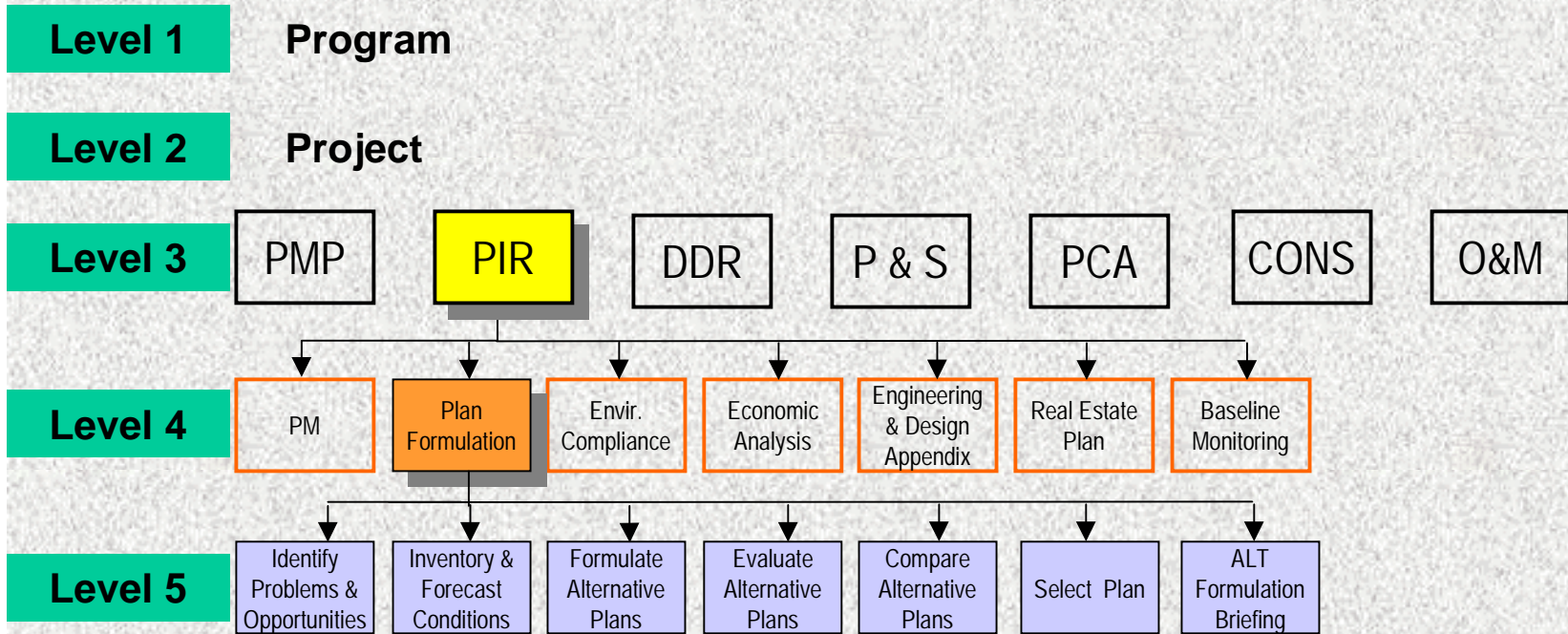
Work Breakdown Structure - SGGE



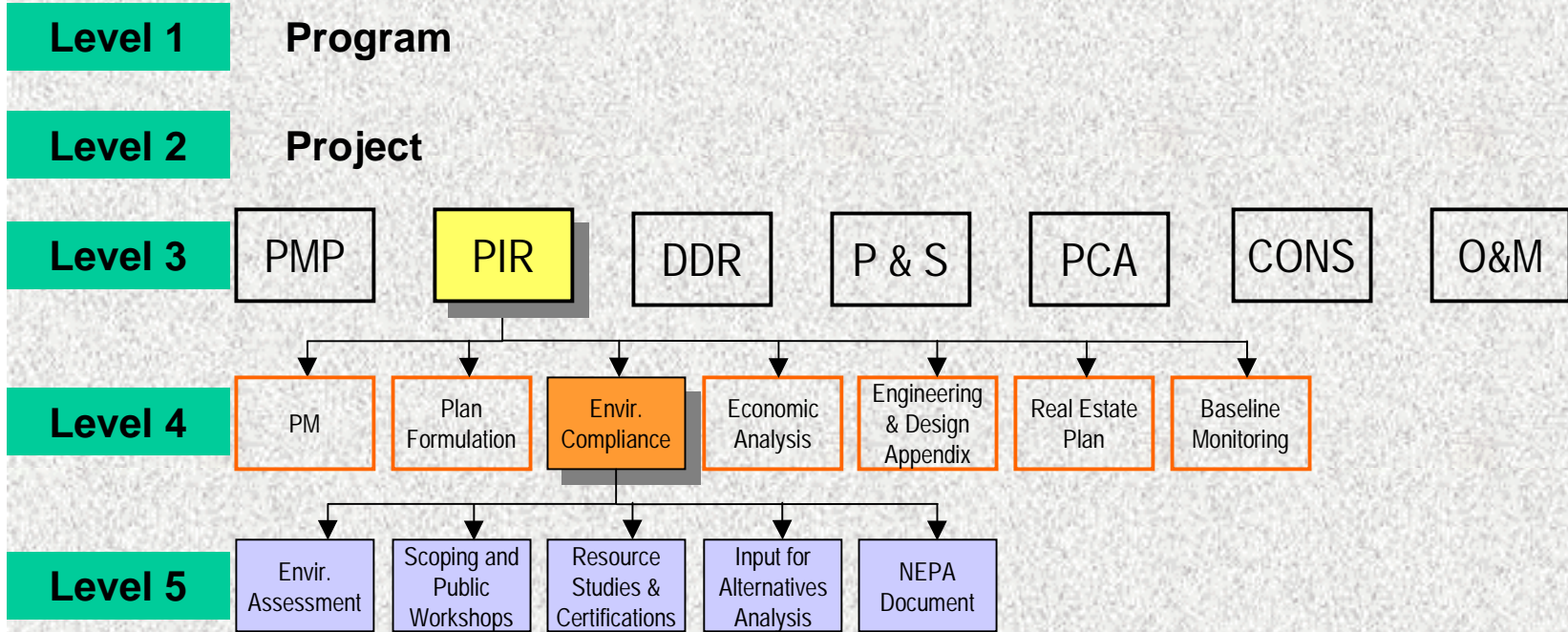
Work Breakdown Structure - SGGE



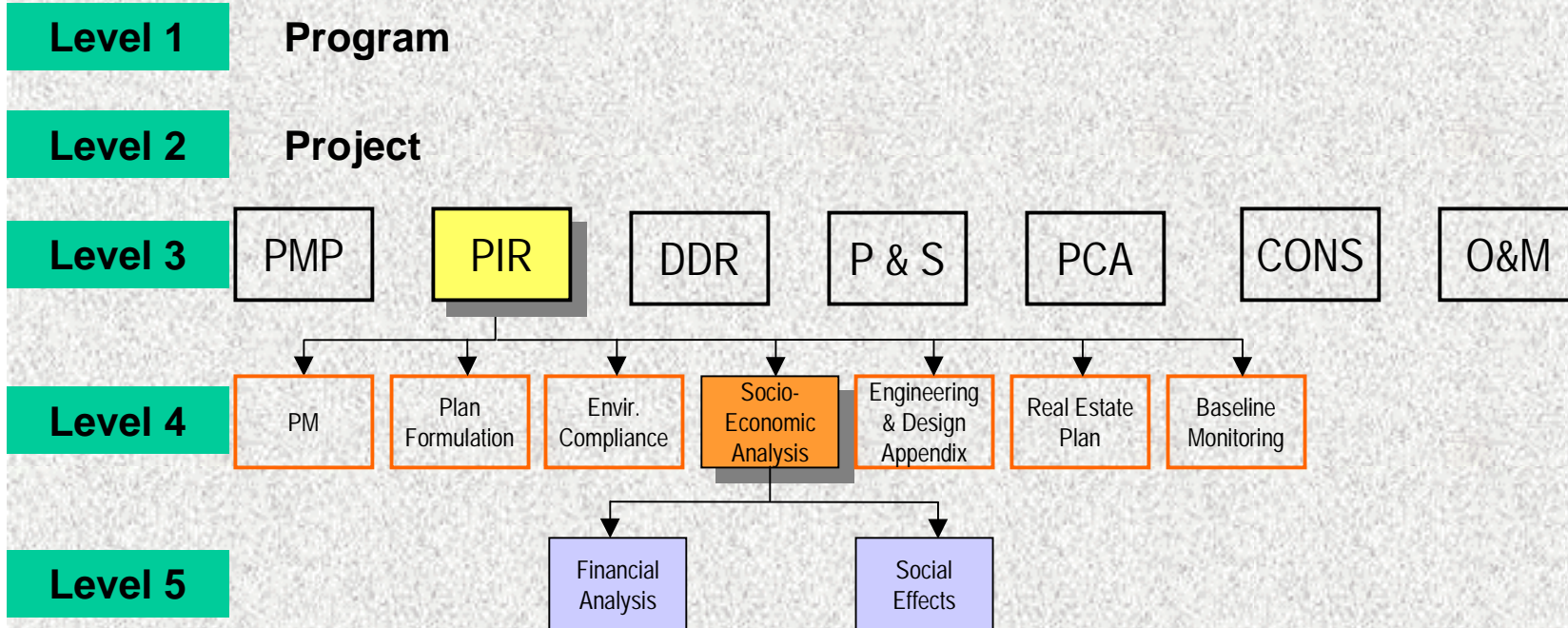
Work Breakdown Structure - SGGE



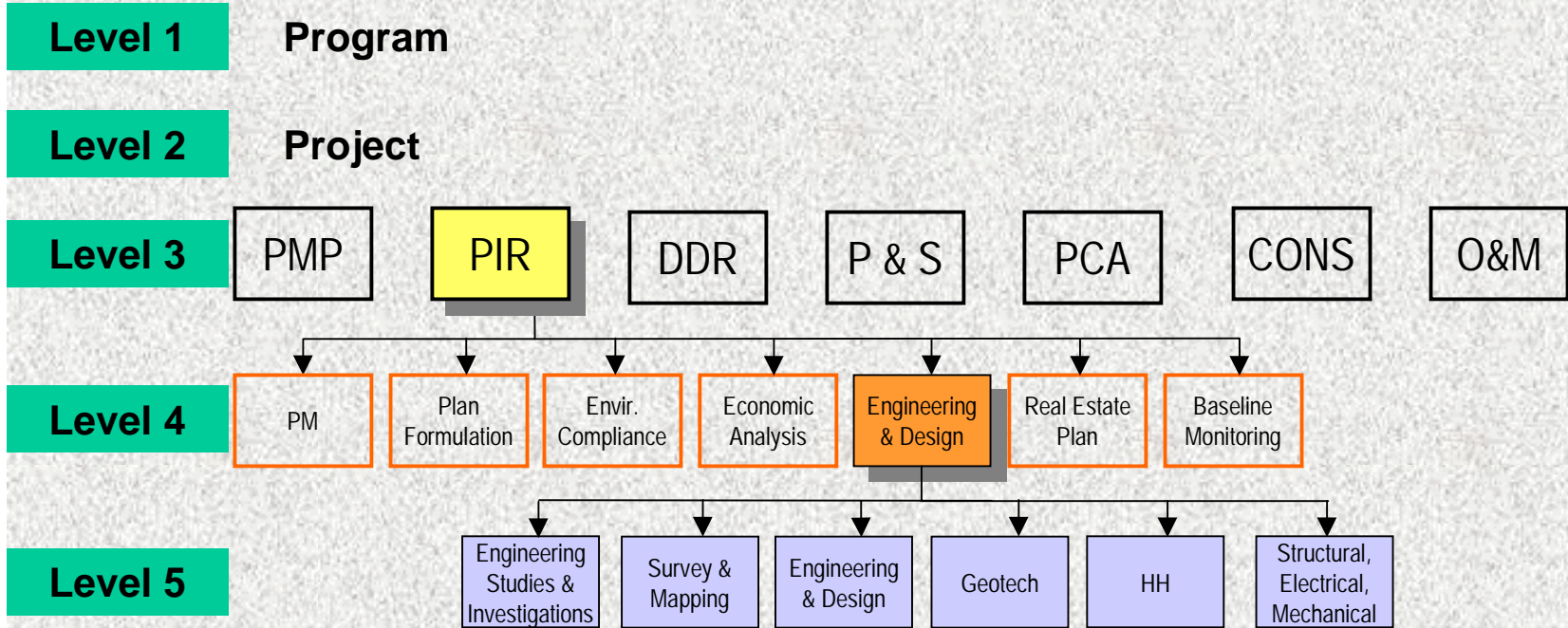
Work Breakdown Structure - SGGE



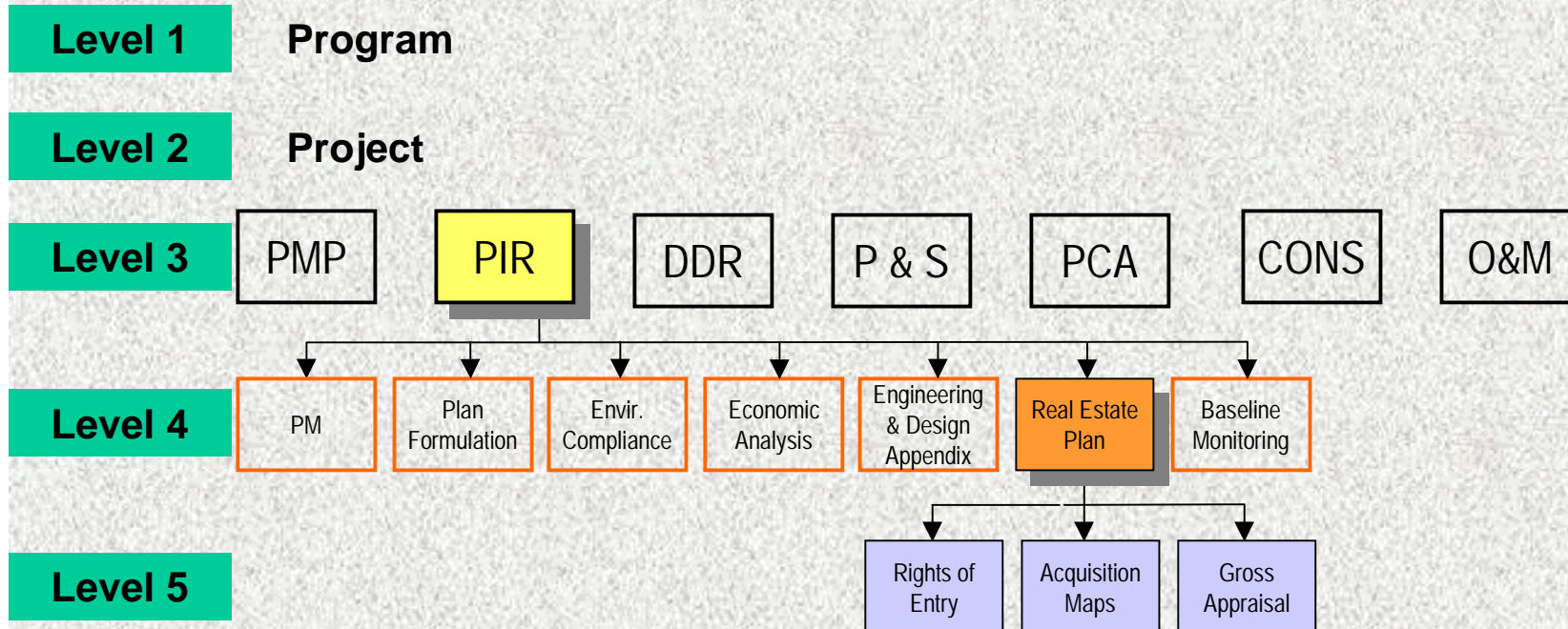
Work Breakdown Structure - SGGE



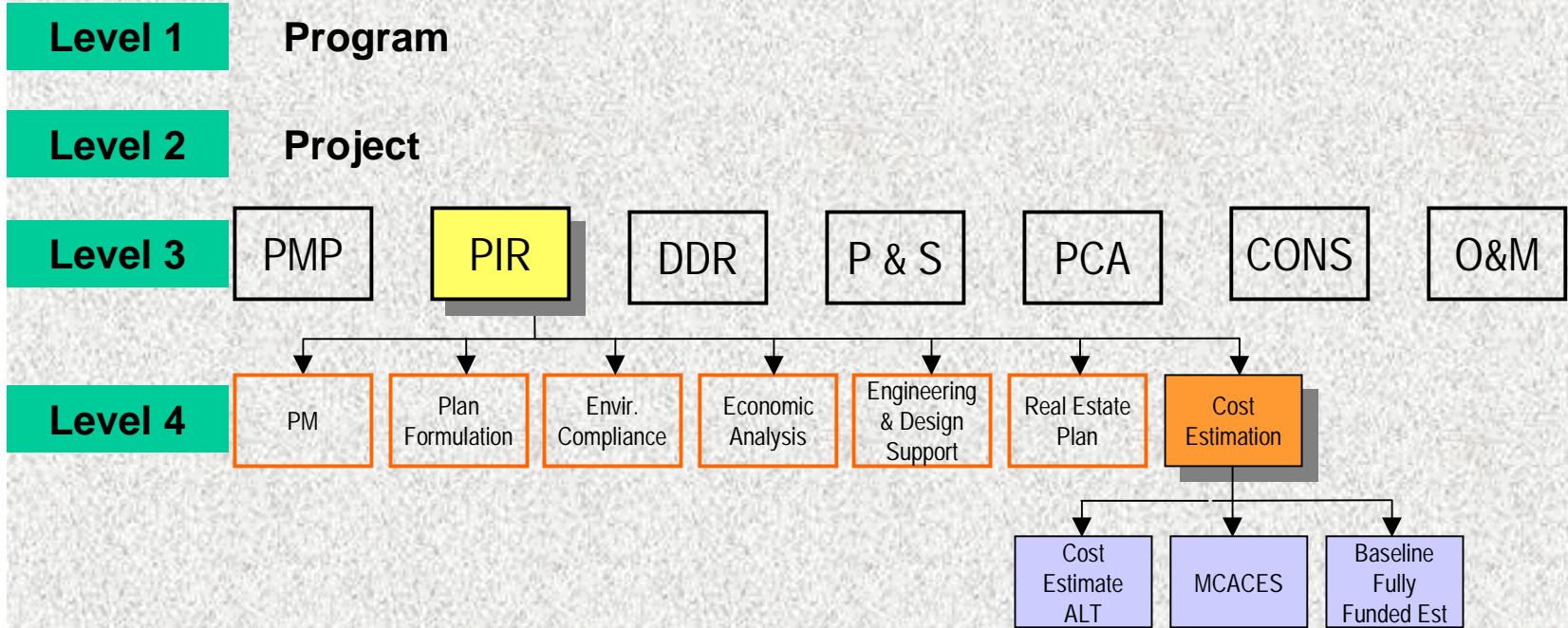
Work Breakdown Structure -SGGE



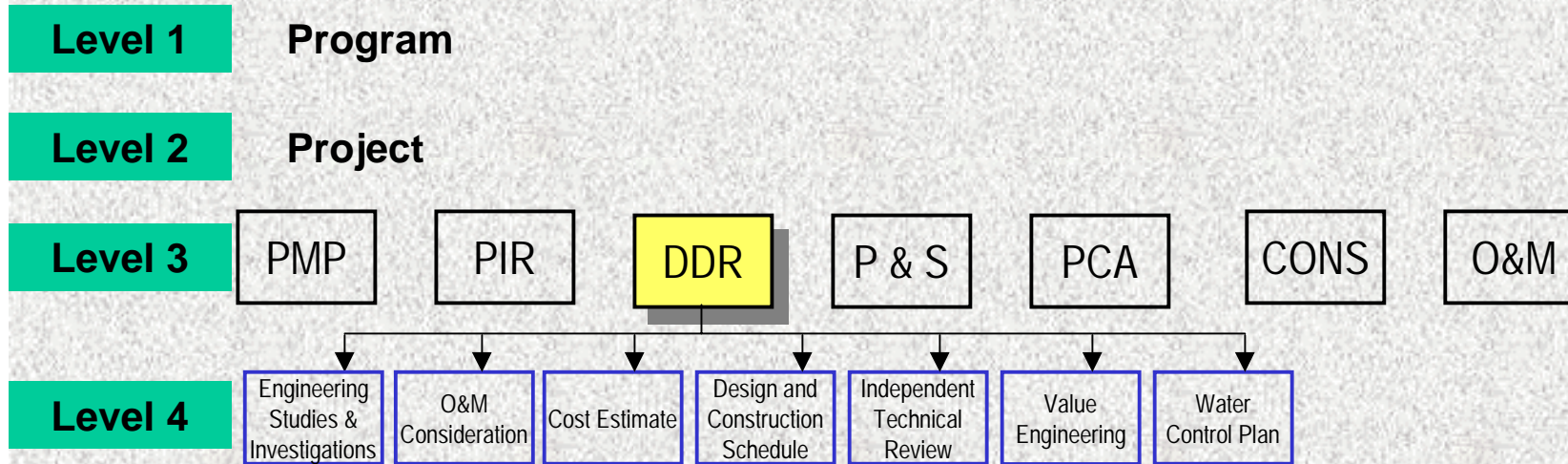
Work Breakdown Structure - SGGE



Work Breakdown Structure - SGGE



Work Breakdown Structure - SGGE

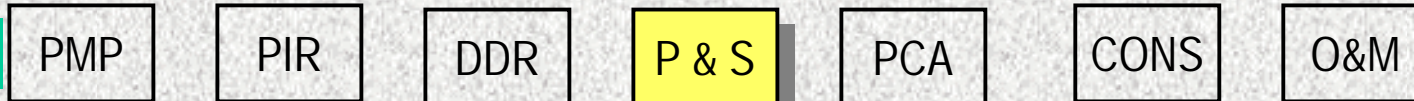


Work Breakdown Structure - SGGE

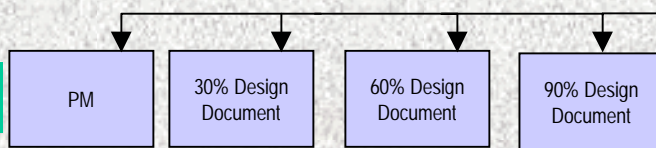
Level 1 Program

Level 2 Project

Level 3



Level 4



Work Breakdown Structure - SGGE

Level 1 Program

Level 2 Project

Level 3

PMP

PIR

DDR

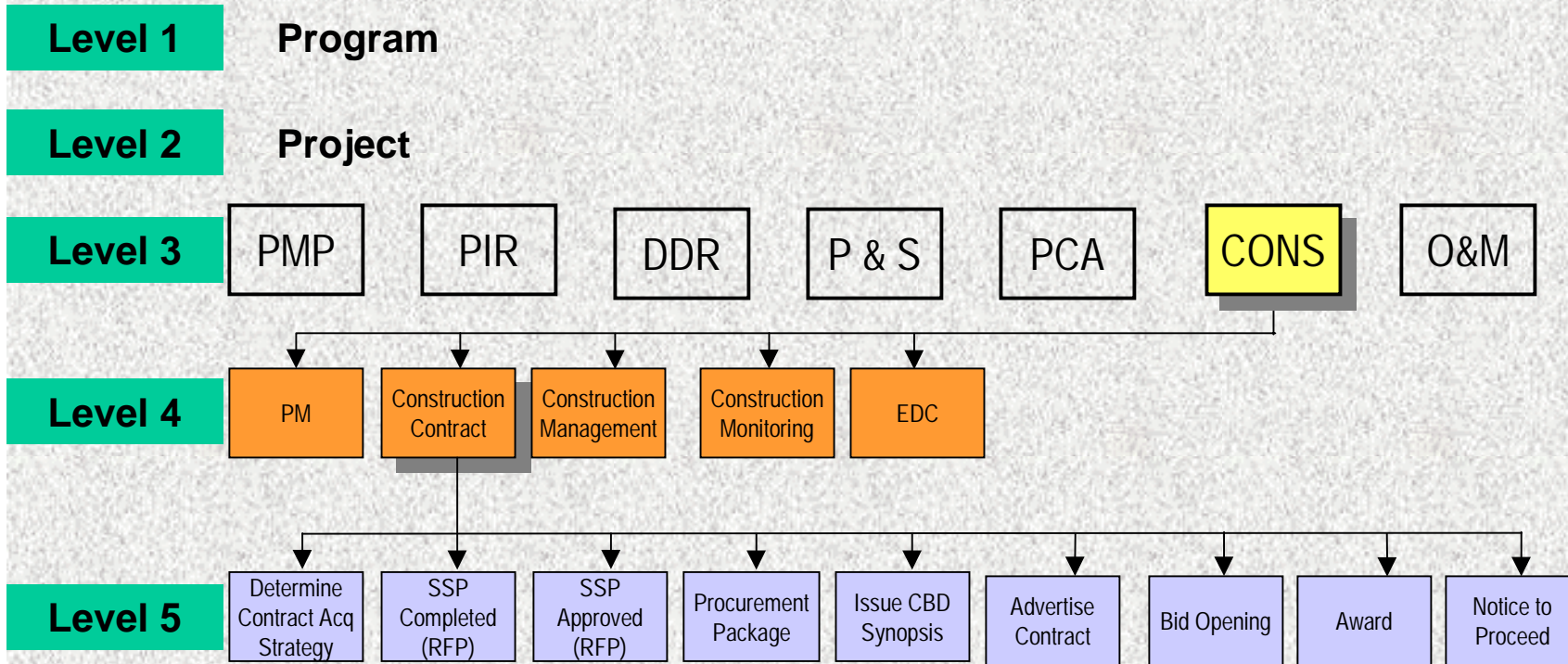
P & S

PCA

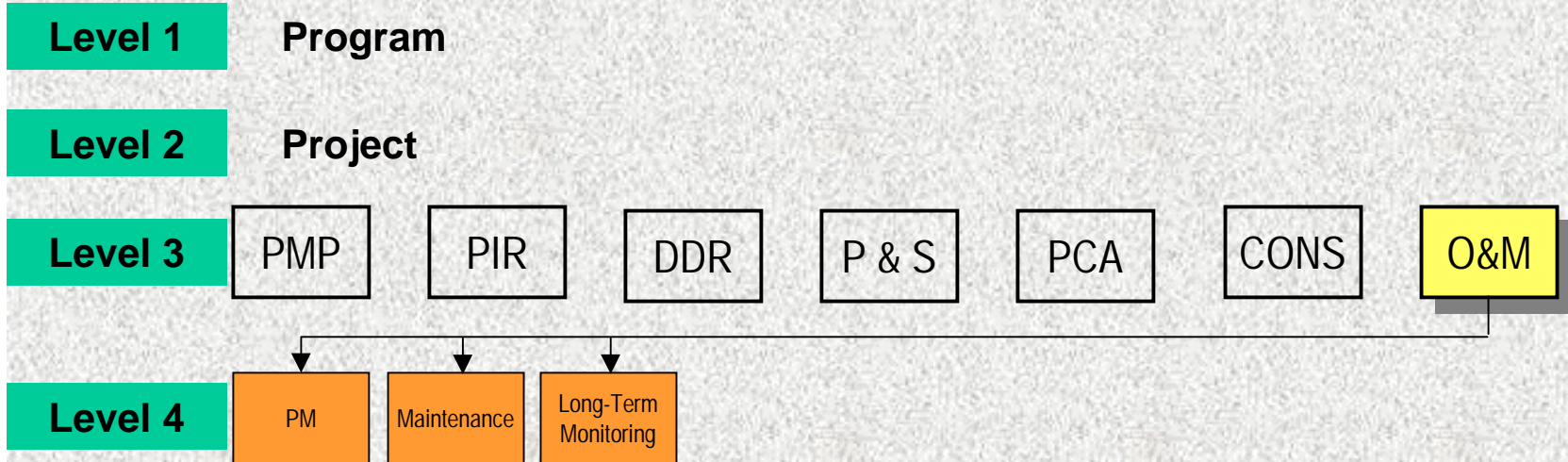
CONS

O&M

Work Breakdown Structure - SGGE



Work Breakdown Structure - SGGE



Appendix C

Organization Breakdown Structure

The current organizational breakdown structure is provided herein.

Organization Breakdown Structure

The Organization Breakdown Structure (OBS) identifies the organizations within the Corps of Engineers responsible for performing work required for project implementation. Office titles and symbols of organizations that will participate in the project are listed below:

JACKSONVILLE DISTRICT

PROJECT MANAGEMENT

DP Deputy District Engineer for Programs and Project Management
DP-A Principal Assistant DDE(PM)
DP-I Project Management Branch

CONSTRUCTION DIVISION

CO Construction Division
CO-C Construction Branch
CO-CC Contract Administration
CO-CQ Quality Assurance Section
CO-CS Construction Services Section
CO-M Emergency Management
CO-S South Florida Area Office

CONTRACTING DIVISION

CT Chief, Contracting Division
CT-C AE and Construction Branch
CT-S Services Branch

ENGINEERING DIVISION

COST ENGINEERING BRANCH

EN-C Cost Engineering Branch

DESIGN BRANCH

EN-D Design Branch
EN-DC Specifications Section
EN-DL Levees and Waterway Section

EN-DM Mechanical & Electrical Section
EN-DS Structures Section
EN-DP Special Projects Section
EN-DT Survey Section

GEOTECHNICAL BRANCH

EN-G Geotechnical Branch
EN-GS Soils Section
EN-GG Geology and Exploration Section

HYDROLOGY AND HYDRAULICS BRANCH

EN-H Hydrology & Hydraulics Branch
EN-HC Coastal Design Section
EN-HH Hydraulic Data and Design Section
EN-HI Hydrologic Investigation Section
EN-HW Meteorology & Operations Section

ENGINEERING TECHNICAL SERVICES BRANCH

EN-T Technical Services Branch

SAJ-VE VALUE ENGINEERING OFFICER

PLANNING DIVISION

ENVIRONMENTAL BRANCH

PD-EE Environmental Quality Section
PD-ER Environmental Coordination Section
PD-ES Environmental Studies Section

PD-D SOCIO-ECONOMICS BRANCH

PLAN FORMULATION BRANCH

PD-PC Coastal
PD-PN Navigation
PD-PF Flood Control

REAL ESTATE DIVISION

RE Real Estate Division
RE-A Acquisition Branch
RE-S Appraisal Branch

OFFICE OF COUNSEL

OC OFFICE OF COUNSEL

OTHER ARMY & CORPS OF ENGINEERS OFFICES

SAD South Atlantic Division

HQ Headquarters, US Corps of Engineers

ASA/CW Assistant Secretary of the Army for Civil Works

OTHER FEDERAL AGENCIES

USGS US Geologic Survey

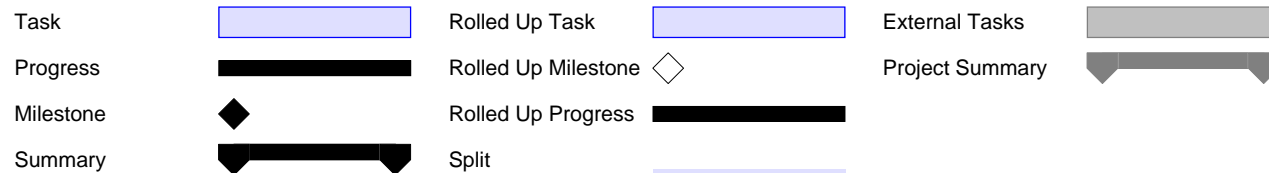
USFWS US Fish and Wildlife Service

USEPA US Environmental Protection Agency

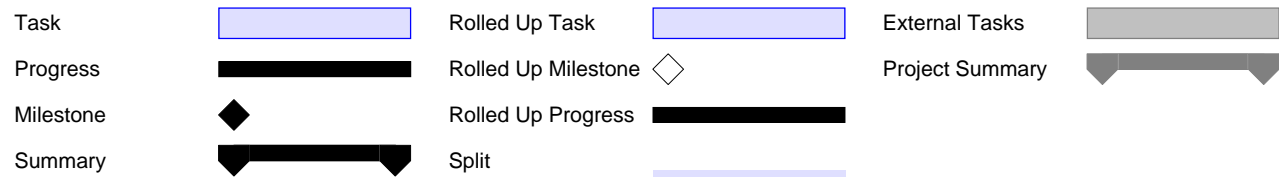
Appendix D Project Schedule

A copy of the project schedule is contained herein.

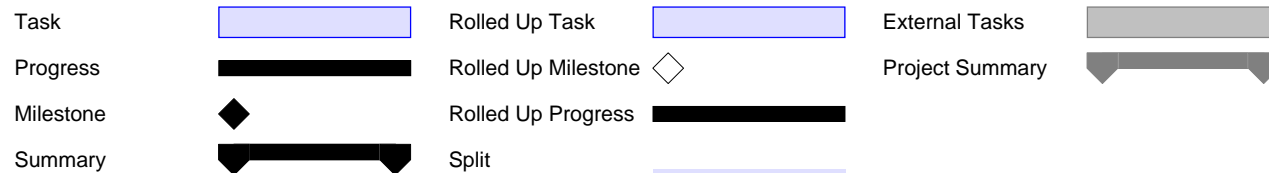
ID	Task Name	Dur	Start	Finish	2000	2001	2002	2003	2004	2005	2006	2007	2008	20
					4	1	2	3	4	1	2	3	4	1
1	CERP: Southern Golden Gate Estates	2193 d	Thu 8/10/00	Thu 5/7/09										
2	PED Cost Sharing Agreement	154 d	Thu 8/10/00	Fri 3/23/01										
3	Executed PED Agreement	0 d	Thu 8/10/00	Thu 8/10/00										
4	Executed PED Agreement	0 d	Thu 8/10/00	Thu 8/10/00										
5	Master Project Management Plan (MPMP)	73 d	Thu 8/10/00	Fri 11/24/00										
6	Final MPMP	73 d	Thu 8/10/00	Fri 11/24/00										
7	Final MPMP Signed by SFWMD	69 d	Thu 8/10/00	Fri 11/17/00										
8	Final MPMP Signed by COE	4 d	Mon 11/20/00	Fri 11/24/00										
9	Project Management Plan (PMP)	132 d	Tue 9/12/00	Fri 3/23/01										
10	Final PMP	132 d	Tue 9/12/00	Fri 3/23/01										
11	PMP Initiated	0 d	Tue 9/12/00	Tue 9/12/00										
12	Project Delivery Team	57 d	Tue 9/12/00	Mon 12/4/00										
13	Initial Draft PMP	21 d	Tue 12/5/00	Thu 1/4/01										
14	PDT Mtg.	1 d	Thu 1/4/01	Thu 1/4/01										
15	Draft PMP	20 d	Fri 1/5/01	Fri 2/2/01										
16	DCT Review of Draft PMP	7 d	Mon 2/5/01	Tue 2/13/01										
17	Draft PMP	6 d	Wed 2/14/01	Thu 2/22/01										
18	Review and discuss PMP at CRG Meeting	1 d	Fri 2/23/01	Fri 2/23/01										
19	Big Basin Board (Public Meeting)	1 d	Wed 2/28/01	Wed 2/28/01										
20	Final PMP	9 d	Thu 3/1/01	Tue 3/13/01										
21	SFWMD Review PMP	5 d	Wed 3/14/01	Tue 3/20/01										
22	COE Project Review	5 d	Wed 3/14/01	Tue 3/20/01										



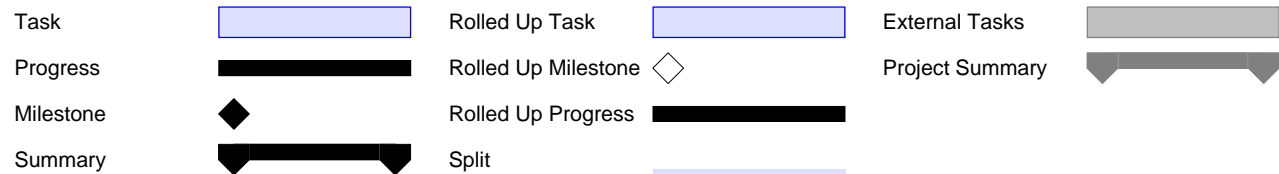
ID	Task Name	Dur	Start	Finish	2000	2001	2002	2003	2004	2005	2006	2007	2008	20
					4	1	2	3	4	1	2	3	4	1
23	Final Approval by SFWMD Executive Director	2 d	Wed 3/21/01	Thu 3/22/01										
24	Approved By Corps PRB	1 d	Fri 3/23/01	Fri 3/23/01										
25	Project Implementation Report Phase	501 d	Fri 3/23/01	Mon 3/24/03										
26	Funds Control	321 d	Fri 3/23/01	Tue 7/2/02										
27	Study Funds Control (Initiate PIR)	0 d	Fri 3/23/01	Fri 3/23/01										
28	Sponsor In-Kind Contributions	0 d	Fri 3/23/01	Fri 3/23/01										
29	Project Authorization	0 d	Tue 7/2/02	Tue 7/2/02										
30	Project Implementation Report	292 d	Mon 3/26/01	Tue 5/21/02										
31	Coordinate Study Effort	292 d	Mon 3/26/01	Tue 5/21/02										
32	Public Involvement / Meetings	292 d	Mon 3/26/01	Tue 5/21/02										
33	Engineering & Design Studies	112 d	Mon 3/26/01	Thu 8/30/01										
34	Surveys and Mapping, Except for RE	42 d	Mon 3/26/01	Tue 5/22/01										
35	Geotechnical Studies	42 d	Mon 3/26/01	Tue 5/22/01										
36	Geotechnical Design Work	70 d	Wed 5/23/01	Thu 8/30/01										
37	Hydrology and Hydraulic Studies	42 d	Mon 3/26/01	Tue 5/22/01										
38	Hydrology and Hydraulic Design Work	60 d	Wed 5/23/01	Thu 8/16/01										
39	Engineering and Design Analysis	70 d	Wed 5/23/01	Thu 8/30/01										
40	Socioeconomic Studies	26 d	Wed 5/23/01	Thu 6/28/01										
41	Economic Analysis	13 d	Wed 5/23/01	Mon 6/11/01										
42	Financial Analysis	13 d	Tue 6/12/01	Thu 6/28/01										
43	Planning Studies	128 d	Mon 3/26/01	Mon 9/24/01										
44	Identifying Problems and Opportunities	21 d	Mon 3/26/01	Mon 4/23/01										



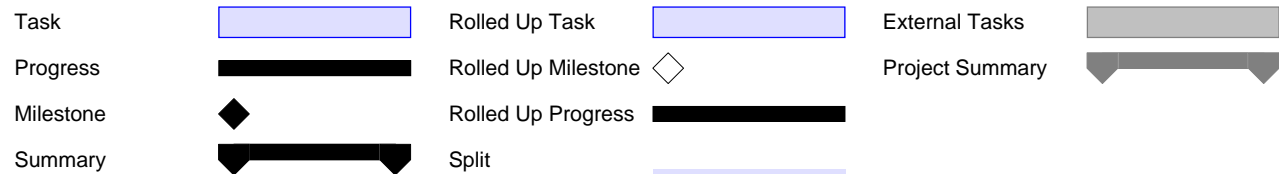
ID	Task Name	Dur	Start	Finish	2000	2001	2002	2003	2004	2005	2006	2007	2008	20
					4	1	2	3	4	1	2	3	4	1
45	Inventorying and forecasting conditions	21 d	Tue 4/24/01	Tue 5/22/01										
46	SAD Briefing on project without conditions	1 d	Wed 5/23/01	Wed 5/23/01										
47	Formulation Alternative Plans	21 d	Thu 5/24/01	Fri 6/22/01										
48	Evaluating Alternative Plans	21 d	Mon 6/25/01	Tue 7/24/01										
49	comparing Alternative Plans	21 d	Wed 7/25/01	Wed 8/22/01										
50	Alternative Formulation Briefing (Tenetive Sel Plan)	1 d	Thu 8/23/01	Thu 8/23/01										
51	AFB Guidance Memorandum	10 d	Fri 8/24/01	Fri 9/7/01										
52	Selecting a Plan	21 d	Fri 8/24/01	Mon 9/24/01										
53	Real Estate Analyses	90 d	Mon 3/26/01	Tue 7/31/01										
54	Rights of Entry	20 d	Mon 3/26/01	Fri 4/20/01										
55	Preliminary Real Estate Acquisition Maps	30 d	Mon 4/23/01	Mon 6/4/01										
56	Gross Appraisal	40 d	Tue 6/5/01	Tue 7/31/01										
57	Environmental Studies / NEPA	241 d	Mon 3/26/01	Mon 3/11/02										
58	Environmental Assessment (EA)	60 d	Mon 3/26/01	Mon 6/18/01										
59	Coordination with Other Agencies / Work Shops	40 d	Tue 6/19/01	Tue 8/14/01										
60	Record of Decision (ROD) or FONSI	0 d	Mon 3/11/02	Mon 3/11/02										
61	Coastal Zone Management Consistency Concurrence	40 d	Tue 6/19/01	Tue 8/14/01										
62	Fish and Wildlife Coordination Act Report	60 d	Mon 3/26/01	Mon 6/18/01										
63	Essential Fish Habitat Evaluation	60 d	Mon 3/26/01	Mon 6/18/01										
64	Surveys (Wading Bird)	60 d	Mon 3/26/01	Mon 6/18/01										
65	Water Quality	60 d	Mon 3/26/01	Mon 6/18/01										
66	HTRW Studies	60 d	Mon 3/26/01	Mon 6/18/01										



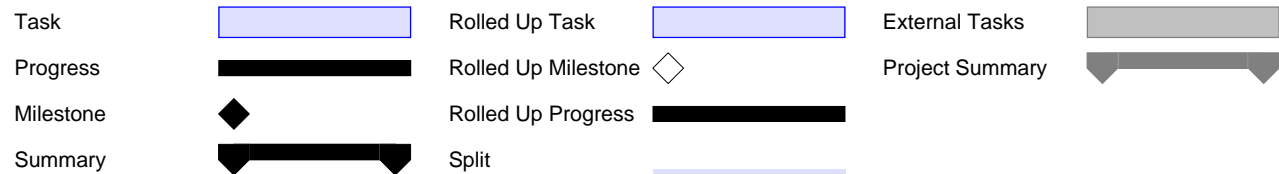
ID	Task Name	Dur	Start	Finish	2000	2001	2002	2003	2004	2005	2006	2007	2008	20
					4	1	2	3	4	1	2	3	4	1
67	Cultural Resource Studies	60 d	Mon 3/26/01	Mon 6/18/01										
68	Cost Estimates	30 d	Fri 8/31/01	Mon 10/15/01										
69	Cost Estimate for Alternatives	10 d	Fri 8/31/01	Fri 9/14/01										
70	Project Cost Estimate (MCACES)	10 d	Mon 9/17/01	Fri 9/28/01										
71	Baseline Fully Funded Cost Estimate	10 d	Mon 10/1/01	Mon 10/15/01										
72	Draft Report	99 d	Tue 10/16/01	Mon 3/11/02										
73	Technical Review (ITR)	14 d	Tue 10/16/01	Fri 11/2/01										
74	Draft Proj Impl Report and NEPA	20 d	Mon 11/5/01	Tue 12/4/01										
75	Public Review / Coordination	45 d	Wed 12/5/01	Fri 2/8/02										
76	State & Agency Review and NEPA Filing Letter	20 d	Mon 2/11/02	Mon 3/11/02										
77	Final Report	40 d	Tue 3/12/02	Mon 5/6/02										
78	Final Project Implementation Report & NEPA	20 d	Tue 3/12/02	Mon 4/8/02										
79	Division Commanders Notice	20 d	Tue 4/9/02	Mon 5/6/02										
80	Washington Level Report Approval	220 d	Tue 5/7/02	Mon 3/24/03										
81	ASA(CW) Memorandum to OMB	1 d	Tue 5/7/02	Tue 5/7/02										
82	Policy Compliance Review	10 d	Tue 5/7/02	Mon 5/20/02										
83	Chief's Report	14 d	Tue 5/21/02	Mon 6/10/02										
84	OMB Letter to ASA(CW)	1 d	Tue 6/11/02	Tue 6/11/02										
85	Chief of Engineer's Report	14 d	Wed 6/12/02	Mon 7/1/02										
86	ASA(CW) Transmittal to Congress	1 d	Tue 7/2/02	Tue 7/2/02										
87	Washing Level Approved Report	60 d	Wed 7/3/02	Thu 9/26/02										
88	Congressional Authorization	90 d	Fri 9/27/02	Fri 2/7/03										



ID	Task Name	Dur	Start	Finish	2000	2001	2002	2003	2004	2005	2006	2007	2008	20					
					4	1	2	3	4	1	2	3	4	1	2	3	4	1	2
89	Updates of PMP	30 d	Mon 2/10/03	Mon 3/24/03				■											
90	PMP Update	30 d	Mon 2/10/03	Mon 3/24/03				■											
91	DESIGN DOCUMENTATION REPORT (DDR)	228 d	Tue 3/25/03	Thu 2/19/04				■	■										
92	Engineering Studies & Investigation	180 d	Tue 3/25/03	Tue 12/9/03				■											
93	O&M Considerations	180 d	Tue 3/25/03	Tue 12/9/03				■											
94	Cost Estimate	180 d	Tue 3/25/03	Tue 12/9/03				■											
95	Design & Const Schedule	180 d	Tue 3/25/03	Tue 12/9/03				■											
96	Independent Tech Review	180 d	Tue 3/25/03	Tue 12/9/03				■											
97	Value Engineering	180 d	Tue 3/25/03	Tue 12/9/03				■											
98	Water Control	180 d	Tue 3/25/03	Tue 12/9/03				■											
99	Report Preparation DDR	48 d	Wed 12/10/03	Thu 2/19/04				■	■										
100	In-House Review	20 d	Wed 12/10/03	Thu 1/8/04				■											
101	Public Review	14 d	Fri 1/9/04	Thu 1/29/04				■											
102	Review Conference (ITR)	14 d	Fri 1/30/04	Thu 2/19/04				■											
103	PLANS AND SPECIFICATIONS (P&S)	120 d	Tue 3/25/03	Thu 9/11/03				■	■										
104	30% Design Document	60 d	Tue 3/25/03	Tue 6/17/03				■											
105	60% Design Document	30 d	Wed 6/18/03	Wed 7/30/03				■											
106	90% Design Document	30 d	Thu 7/31/03	Thu 9/11/03				■											
107	PCA	1 d	Fri 9/12/03	Fri 9/12/03				■											
108	CONSTRUCTION	687 d	Mon 9/15/03	Fri 6/9/06				■	■										
109	Construction Contract	187 d	Mon 9/15/03	Fri 6/11/04				■	■										
110	Determine Contract Acquisition Strategy	30 d	Mon 9/15/03	Mon 10/27/03				■											



ID	Task Name	Dur	Start	Finish	2000	2001	2002	2003	2004	2005	2006	2007	2008	20
					4	1	2	3	4	1	2	3	4	1
111	SSP Completed (for RFP Strategy)	7 d	Tue 10/28/03	Wed 11/5/03										
112	SSP Approved (for RFP Strategy)	7 d	Thu 11/6/03	Mon 11/17/03										
113	Procurement Package to CT-C	7 d	Tue 11/18/03	Wed 11/26/03										
114	Issue CBD Synopsis	30 d	Fri 11/28/03	Mon 1/12/04										
115	Advertise (IFB) Contract (or RFP)	45 d	Tue 1/13/04	Wed 3/17/04										
116	Bid Opening (or Proposals Due)	30 d	Thu 3/18/04	Wed 4/28/04										
117	Award Contract	30 d	Thu 4/29/04	Thu 6/10/04										
118	Notice to Proceed	1 d	Fri 6/11/04	Fri 6/11/04										
119	Construction Management	500 d	Mon 6/14/04	Fri 6/9/06										
120	Area Office S&I	500 d	Mon 6/14/04	Fri 6/9/06										
121	District Office S&A	500 d	Mon 6/14/04	Fri 6/9/06										
122	Technical Management S&A	500 d	Mon 6/14/04	Fri 6/9/06										
123	Engineering and Design During Construction	500 d	Mon 6/14/04	Fri 6/9/06										
124	Engineering and Design During Construction	500 d	Mon 6/14/04	Fri 6/9/06										
125	O&M	730 d	Mon 6/12/06	Thu 5/7/09										
126	Maintenance	730 d	Mon 6/12/06	Thu 5/7/09										
127	Long Term Monitoring	730 d	Mon 6/12/06	Thu 5/7/09										



Appendix E
Project Cost Estimate

A copy of the Project Cost Estimate is contained herein.

Southern Golden Gate Estates

Project Cost Estimate

Project/FY	Total Cost	Federal Contribution to LERRD	Non-Federal LERRD	Scheduled Planning, Engr. & Design	Projected Construction Costs	S& A Costs	Non-Federal In-Kind Work	Other Federal Agencies	Federal Cash
Southern Golden Gate Estates									
April 1999	\$58,514	\$0	\$0	\$0	\$0	\$0	\$29,257	\$29,257	\$0
00	\$117,026	\$0	\$0	\$0	\$0	\$0	\$58,513	\$58,513	\$0
01	\$3,032,663	\$0	\$0	\$2,719,213	\$0	\$0	\$285,825	\$27,625	\$2,461,013
02	\$100,900	\$0	\$0	\$51,900	\$0	\$0	\$49,000	\$0	\$2,900
03	\$2,510,000	\$0	\$0	\$2,310,000	\$0	\$0	\$200,000	\$0	\$2,110,000
04	\$120,793,374	\$38,000,000	\$79,129,149	\$100,000	\$3,285,000	\$279,225	\$0	\$0	\$3,664,225
05	\$8,910,563	\$0	\$0	\$0	\$8,212,500	\$698,063	\$0	\$0	\$8,910,563
06	\$1,782,113	\$0	\$0	\$0	\$1,642,500	\$139,613	\$0	\$0	\$1,782,113
Total	\$137,305,152	\$38,000,000	\$79,129,149	\$5,181,113	\$13,140,000	\$1,116,900	\$622,595	\$115,395	\$18,930,813
	TOTAL COSTS = LERRD + PED + CONST COST + S&A +NON FED WORK IN KIND								
	S&A = CONST COST * 0.085								
	FED CASH = PED + CONST COST + S&A -NON FED WORK IN KIND								
	NON-FED RESPONSIBILITY = (PED + CONST COST + S&A)/2 - (NON FED WORK IN KIND)								
	FED RESPONSIBILITY = (PED + CONST COST + S&A+ OTHER FED AGENCIES) - (NON FED WORK IN KIND)								

Appendix F

Project Funding Requirements

This section is reserved for project funding documents that will become available as the project progresses.

Appendix G Reporting

This section is reserved for standard reporting forms that will be developed as the project progresses.

Appendix H Resource Allocation Plan

This section is reserved for the Resource Allocation Plan, a copy of which is provided herein.

Resource Allocation Plan- PMP and PIR Phases																
Task No.	Task	Total	SFWMD In-Kind	COE Cash	EN EN-D	EN-G	EN-H	EN-C	EN-T	PD PD-E	PD-D	PD-P	CO CO-C	RE RE-A	CT CT-C	DP DP-R
		Future Cost														
	Total PMP	\$103,063	\$13,200	\$89,863	\$869	\$2,840	\$3,842	\$1,000	\$0	\$14,301	\$3,604	\$51,088	\$1,185	\$2,244	\$0	\$8,890
1	Study Coordination	\$14,250	\$3,000	\$11,250								\$8,250			\$3,000	
2	Public Involve/Meetings	\$29,000	\$4,000	\$25,000								\$15,000				\$10,000
3	Surveys & Mapping	\$1,336,700	\$0	\$1,336,700	\$1,335,500									\$1,200		
4	Geotechnical Studies	\$6,550	\$0	\$6,550		\$6,550										
5	Geotechnical Design Work	\$138,750	\$0	\$138,750		\$138,750										
6	H&H Studies	\$50,000	\$8,000	\$42,000			\$42,000									
7	H&H Design Work	\$345,100	\$8,000	\$337,100			\$337,100									
8	Engrg & Design Analysis	\$167,000	\$2,000	\$165,000	\$165,000											
9	Economic Analysis	\$8,000	\$2,000	\$6,000							\$6,000					
10	Financial Analysis	\$8,000	\$2,000	\$6,000							\$6,000					
11	Identify Prob and Oppt	\$6,500	\$4,000	\$2,500								\$2,500				
12	Inv. And Forecast Cond	\$2,500	\$0	\$2,500								\$2,500				
13	Formulatn Alt Plans	\$57,500	\$0	\$57,500	\$40,000			\$15,000				\$2,500				
14	Evaluation Alt Plans	\$2,500	\$0	\$2,500								\$2,500				
15	Comparing Alt Plans	\$2,500	\$0	\$2,500								\$2,500				
16	Alt. Form Brief (AFB)	\$8,000	\$2,000	\$6,000								\$6,000				
17	AFB Guidance Memo	\$3,000	\$0	\$3,000								\$3,000				
18	Select Plan	\$2,500	\$0	\$2,500								\$2,500				
19	Rights of Entry	\$6,000	\$3,000	\$3,000										\$3,000		
20	**Prel. RE Acquisition Maps	\$144,000	\$140,000	\$4,000										\$4,000		
21	Gross Appraisal	\$10,000	\$0	\$10,000										\$10,000		
22	Env. Assessment (EA)	\$56,000	\$6,000	\$50,000						\$50,000						
23	Agency Coordination	\$18,000	\$3,000	\$15,000						\$15,000						
24	Rec of Dec (ROD)/FONSI	\$0	\$0	\$0												
25	Surveys (Wading Bird)	\$50,000	\$0	\$50,000						\$50,000						
26	Coastal Zone Consist.	\$3,500	\$2,000	\$1,500						\$1,500						
27	FWS Coord Act Rep/CAR	\$193,000	\$3,000	\$190,000						\$190,000						
28	Essential Fish Habitat Eval	\$1,500	\$0	\$1,500						\$1,500						
29	Water Quality	\$30,000	\$0	\$30,000						\$30,000						
30	HTRW Studies	\$16,000	\$1,000	\$15,000						\$15,000						
31	Cult. Resource Studies	\$71,000	\$1,000	\$70,000						\$70,000						
32	Cost Estimate for Altern.	\$29,000	\$8,000	\$21,000				\$15,000				\$6,000				
33	Proj Cost Est (MCACES)	\$18,000	\$3,000	\$15,000				\$15,000								
34	Baseline Full-fund cost	\$2,000	\$1,000	\$1,000								\$1,000				
35	Technical Review (ITR)	\$21,800	\$5,000	\$16,800	\$1,200	\$1,200	\$1,200	\$1,200	\$3,000	\$1,200	\$1,200	\$3,000	\$1,200	\$1,200	\$1,200	
36	Draft PIR and NEPA	\$46,000	\$20,000	\$26,000						\$6,000		\$20,000				
37	HQ Policy Review (FRC)	\$1,500	\$0	\$1,500								\$1,500				
38	Revised PIR and NEPA	\$17,000	\$12,000	\$5,000								\$5,000				
39	Proj Guidance Memo/PGM	\$0	\$0	\$0												
40	Public Review/Coord.	\$6,600	\$5,000	\$1,600								\$1,600				
41	State & Agency Review	\$0	\$0	\$0												
42	Final PIR & NEPA	\$6,000	\$6,000	\$0												

		Total														
Task		Future	SFWM	COE	EN					PD			CO	RE	CT	DP
No.	Task	Cost	In-Kind	Cash	EN-D	EN-G	EN-H	EN-C	EN-T	PD-E	PD-D	PD-P	CO-C	RE-A	CT-C	DP-R
43	Div. Cmdr's Notice	\$0	\$0	\$0												
44	ASA(CW) Memo to OMB	\$0	\$0	\$0												
45	Policy Compl. Review	\$0	\$0	\$0												
46	Chief's Report	\$0	\$0	\$0												
47	OMB Letter to ASA (CW)	\$0	\$0	\$0												
48	Chief of Engrs Report	\$0	\$0	\$0												
49	ASA(CW) Trans to Cong	\$0	\$0	\$0												
50	PMP Update	\$0	\$0	\$0												
	Total PIR	\$2,935,250	\$254,000	\$2,681,250	\$1,541,700	\$146,500	\$380,300	\$46,200	\$3,000	\$430,200	\$13,200	\$85,350	\$1,200	\$19,400	\$4,200	\$10,000
	Total PMP & PIR	\$3,038,313	\$267,200	\$2,771,113	\$1,542,569	\$149,340	\$384,142	\$47,200	\$3,000	\$444,501	\$16,804	\$136,438	\$2,385	\$21,644	\$4,200	\$18,890

Appendix I

Advance Formulation Plan

The advanced Formulation Plan is presented in Section 9.1 Advance Formulation Planning. This section is reserved for correspondences and changes to the plan that may occur during project implementation.

Appendix J

Engineering and Design Plan

This section is reserved for the Engineering and Design Plan that will be developed as the project progresses.

Appendix K Construction Management Plan

This section is reserved for Construction Management Plan that will be developed as the project progresses.

Appendix L Real Estate Plan

This section is reserved for Real Estate Plan that will be developed as the project progresses.

Appendix M Acquisition Plan

This section is reserved for Acquisition Plan that will be developed as the project progresses.

Appendix N
Quality Control Plan

This section is reserved for the Quality Control Plan, a copy of which is provided herein.

Quality Control Plan

1.0 Purpose

This Quality Control Plan (QCP) presents the policy and specific actions to be implemented on the Southern Golden Gate Estates Hydrologic Restoration Plan to ensure that high quality products are produced on time and within budget.

2.0 Project Description and Scope

See Sections 1.0 and 2.0 of the Project Management Plan

3.0 Plan Objective

The Plan sets forth the review requirements for the Plans and Specifications (P&S) and other engineering and design documents (E&D) developed by the U.S. Army Corps of Engineers (ACOE) and the South Florida Water Management District (SFWMD). There will be an independent technical review of all P&S and E&D conducted by the SFWMD and ACOE to ensure quality control before completion. The technical review will verify the reasonableness of the results, including whether the products meet the needs consistent with law.

4.0 Internal ACOE Requirements

4.1 Quality Control Manager

The Quality Control Manager (QCM) for the Project shall be responsible for the following quality control activities:

- Maintaining a file of pertinent correspondence and project guidelines.
- Developing a central location to store in house review sets of plans, design calculations, quality computations, reports, specifications etc.
- Monitoring and evaluating the design activities of the Design Team and conduct follow up where necessary.
- Reviewing submittals for completeness and accuracy.
- Document activities relating to quality control and route to all affected parties.

4.2 Appointment of Engineering Division Project Engineer

The Engineering Division Project Engineer (PE) for the preparation of the P&S is the Engineering Division point of contact with the Project Manager and the coordinator of the technical engineering and design support requirements for the project. His responsibilities are:

- Ensuring that the customer requirements are fully understood, those clear accurate criteria are established, and that guidance and direction for the designer is fully documented.
- Coordination of the Engineering Division's work on assigned technical products.
- Closely monitoring progress of the work and costs for technical products against the project schedules.
- Advising the PM of the status periodically, and of all significant developments as they arise.

4.3 Technical Coordination

Team members will meet regularly to coordinate technical efforts between the various disciplines, to discuss and work toward resolving outstanding issues, and to examine work progress and expenditures. These meetings will keep team members updated on the status of the project and any significant developments, as well as encourage a team-building and partnering spirit that will enhance successful completion of a quality product on schedule and within budget.

4.4 Site Visits by Technical Team Members

Trips by the team members will be taken as necessary.

4.5 Project Review Process

Design team members will provide their input for the plans and specifications to the Engineering Division, Design Branch. When all the information for the plan and specifications has been received, Design Branch, Specifications Section will have the project documents reproduced and disseminated for review by the District and Area Offices.

Review comments and actions will be recorded on SAD Form 3058-R or similar form, and maintained in file folders and/or electronically. Forms submitted during the in-house review of the plans and specifications will be maintained by Specifications Section (CESAJ-EN-DC). The project will be reviewed with respect to biddability, constructibility, operability, and environmental compatibility in accordance with ER 415-1-11.

Biddability, Constructibility, Operability, and Environmental (BCOE) Review Meeting. After the review period is completed, a review meeting will be convened by Design Branch, Specifications Section to address the project comments. The Design team members will be present at this meeting along with other concerned Construction, Operations, Engineering, and Project Management personnel.

Design team members shall provide input or make any necessary changes to the contract documents in a timely manner as a result of the BCOE meeting.

4.6 Project Schedule - See Appendix C of the PMP.

5.0 Independent Technical Review for ACOE and SFWMD E&D Products

All engineering and design products including P&S shall have an Independent Technical Review (ITR). The ITR Team shall be established when work has started on a product. The ITR team shall conduct such reviews as necessary to insure that the product is consistent with established criteria, guidance, procedures, and policy. The products produced during the Pre-construction Engineering & Design phase are subject to ITR

The Quality Control Manager for the SFWMD and the ACOE shall ensure that the ITR Teams document their actions and recommendations and furnish the Project Coordination Team (PCT) reports at critical points during project formulation, design, and construction. Independent Technical Review may be conducted within the SFWMD, ACOE, or by contract. Parties involved in the engineering and design may not be members of the ITR team.

A Statement of Legal and Technical Review shall be completed for final products and documents prepared by the ACOE. When the ITR is performed by contract, appropriate members of the Contractor's staff shall sign the Statement of Legal and Technical Review.

A Sample Guideline for Independent Technical Review (ITR) is included in Appendix G

The ITR Teams shall verify or ensure the following:

- The design conforms to proper criteria.
- The design conforms to plan recommended in the feasibility report.
- Any deviations from criteria or the recommended plan are properly justified.
- Appropriate design methods have been followed.
- The responsible party has completed an internal check of the design and has so indicated on drawings and computation sheets.
- The completed project design is adequately documented.
- The review effort should concentrate primarily on issues related to safety and function of the Project.

5.1 Independent Technical Review Team Members

The review team members will be senior professionals selected by their technical division chief based on the expertise needed for the design. They will not be affiliated with

the development of the design. Their assignment is to confirm the proper application of clearly established criteria, regulations, laws, codes, principles, and professional procedures. The technical review team members will be named during the beginning of the PIR process.

Appendix O

Water Quality and Permitting Plan

This section is reserved for the Water Quality and Permitting Plan that will be developed as the project progresses.

Appendix P Public Involvement Plan

The Public Involvement Plan is provided in Section 9.8. Additional material generated during this plan, in any, will be included in this appendix.

**Appendix Q
Environmental Plan**

This section is reserved for the Environmental Plan, a copy of which is provided herein.

Environmental Plan

This appendix is divided into sections. Describing activities required for preparation of the National Environmental Policy Act (NEPA) documents that will be integrated into the Project Implementation Report (PIR). The various activities are associated with different aspects of evaluating the restoration alternatives. The level of detail will be sufficient for use in the development of detailed engineering and designs adequate to obtain congressional authorization for construction.

IMPACT ASSESSMENT

This section includes data collection and evaluation of the environmental character of the study area, and the cost of environmental baseline development and impact assessments. In general, project alternatives will consist of several components to be evaluated, both individually and in combination. Studies will be conducted cooperatively with the U.S. Fish and Wildlife Service (USFWS), National Park Service, Florida Fish and Wildlife Conservation Commission (FWC), Florida Division of Forestry (FDOF), U.S. Environmental Protection Agency (EPA), Florida Department of Environmental Protection (DEP), and National Oceanic and Atmospheric Administration.

All activities will be completed in accordance with the *National Environmental Policy Act (NEPA) of 1969, as amended (91-190)* and the Council on Environmental Quality (CEQ) NEPA regulations (*40 CFR Parts 1500 - 1508*). The NEPA document will follow the format described in *ER 1105 - 2 - 100* and *ER 200 - 2 - 2*.

Formal coordination with the state will occur at several points during the study to insure consistency with state programs, including the *State Coastal Zone Management Act and Chapter 99-223, Laws of Florida, i.e., The Watershed Management Act*. It is anticipated that coordination will be accomplished by scoping; follow-up letters, and subsequent meetings that will insure state participation in the study process, alternative development, and evaluation. Coordination with the state under the *Clean Water Act (CWA)* will be required if material is placed within a wetland or waters of the United States and/or if plan implementation affects any water bodies that have established Total Maximum Daily Loads (TMDL's), Section 303(d), CWA. The CWA requires two actions, a 404(b)(1) evaluation, and state water quality certification.

The following activities are required to conduct the *EPA* impact assessment:

Initiate Scoping - Initiate the necessary coordination with Federal, state, and local agencies and the public, including coordination needed for compliance with the NEPA.

Scoping Workshops - Meet with project partners regarding the scope of the environmental studies. Provide initial opportunities for the public and interested agencies to recommend environmental studies and issues to be addressed in the study efforts.

Prepare/Modify Scope of Work - Add/delete/modify environmental study efforts following comments from the previous activity.

Biological and Field Investigations - A literature search of environmental resources of the area will be conducted. Field investigations of each project site will include inventory of habitats and species occurrence to determine existing conditions. Work will be accomplished in cooperation with the USFWS, FWC, and other appropriate agencies and will be done in conjunction with fieldwork to be performed for the Fish and Wildlife Coordination Act Report (FWCAR).

Review Impact Assessment Models. - Review procedure(s) or models for use in environmental impact assessment. An inventory of the study area attributes and problems will be accomplished and the required attributes of the impact assessment methodology will be determined. An inventory of existing models, as well as models currently under development, will be completed. If appropriate, criteria for a new impact assessment model will be specified.

Select Impact Assessment Method - Meet with the local sponsor, USFWS, and FWC to determine the impact assessment method to be used to evaluate specific environmental responses to project alternatives in the FWCAR.

Initial Assessment - Evaluate project sites and influences according to impact assessment method. All work will be done cooperatively with the USFWS and FWC.

Input for Preliminary Assessment of Alternatives - Conduct analysis to reduce project impacts with USFWS and FWC and provide feed back into project design process.

Biological Assessment - This work will include a review of information on species listed as threatened or endangered that may occur in the study area. A Biological Assessment (BA) will be prepared to address potential impacts to threatened and endangered species. Based on the information provided in the BA, a determination will be made as to whether the proposed action may affect any listed species. If any listed species may be affected, then consultation with the USFWS will be initiated and a Biological Opinion will be requested of the USFWS. No funds are provided to the USFWS for completion of a Biological Opinion.

Coastal Zone Management Evaluation - Obtain technical information needed and complete a Coastal Zone Management Act evaluation, including a determination of consistency in the NEPA document.

Sediment and Water Quality Data Collection and Evaluation – This activity is covered under Section 9.7 Permitting and Appendix O Permitting Plan of this PMP.

HTRW Review and Evaluation – This analysis is covered under a separate section and appendix

Aesthetic and Recreation Resource Analysis - An aesthetic and recreation resource analysis will be completed and will include a discussion of existing conditions, a comparative resources analysis of impacts of study alternatives and the selected plan, and a delineation of any mitigation design measures, if needed.

Prepare for In-Progress Review (IPR) - Prepare for and attend IPR meetings. Request USFWS and FWC attendance.

Modify Studies Accordingly - Develop additional environmental studies to reflect IPR review comments.

Additional Environmental Sampling - Conduct additional environmental sampling following the TRC and incorporate into impact assessment analysis.

Input for Final Alternatives - Identify additional beneficial environmental features and include in the final project design.

Preliminary Draft NEPA Documentation - Complete preliminary draft NEPA documentation (integrated with preliminary draft Feasibility Report) and forward to Corps higher authority for review before the Alternatives Formulation Briefing (AFB).

Prepare for Alternatives Formulation Briefing - Ensure environmental personnel attendance at the AFB. Request other Federal and state agencies to attend.

Respond to Higher Authority Comments - Incorporate comments from higher authority review of the preliminary draft Feasibility Report and the AFB into draft NEPA document that is integrated with the draft Feasibility Report.

Draft NEPA document - A draft NEPA document (integrated with the draft Feasibility Report) will be submitted to the EPA, Region IV.

Comment Period for NEPA documentation - Respond to questions from agencies/public during review, respond to questions/inquiries from higher authority, and attend public meetings.

Respond to Comments - Revise the NEPA documentation based on comments received from the public during the comment period.

Final NEPA document - Transmit the final NEPA documentation (integrated with final Feasibility Report) to South Atlantic Division.

ROD - Record of Decision is prepared and signed by Assistant Secretary of the Army for Civil Works.

EXOTIC SPECIES

This section is concerned with management of harmful, non-indigenous plant and animal species in the project area. The 1994 Annual Report of the Interagency Working Group included a review of harmful non-indigenous plants and animals that threaten or impact the south Florida ecosystem. Periodic coordination tasks and meetings are anticipated throughout the PIR study to insure that results (especially concerning recommended alternatives and/or management strategies) are consistent with activities and recommendations of this group. Specific tasks to be accomplished will include the following:

- Finalize and implement the Vegetation Management Plan, whose goal is to control invasive exotics, restore preexisting natural vegetative communities, and restore fire to the system.
- Design the hydrologic restoration to maximize removal of exotics associated with canals, road, and berms.

FIRE MANAGEMENT

This section discusses the use of fire in the management of natural communities. The South Florida Interagency Fire Management Council is a forum for facilitating interactions among south Florida fire managers. They, or another similar group, could provide a valuable format for developing strategies to integrate fire into the PIR, since successful restoration of many components of the natural systems will require an appropriate fire regime. Periodic coordination tasks and meetings are anticipated throughout the PIR study to insure that study results (especially concerning recommended alternatives and/or management strategies) are consistent with activities and recommendations of this group. Specific tasks to be accomplished will include the following:

- Identify habitat restoration strategies designed to reestablish and maintain appropriate fire regimes in each community type where natural communities are being managed.
- Identify strategies for fuel management and appropriate buffers in developed areas to facilitate application of fire in nearby natural systems.
- Continue to implement Picayune Strand State Forest Fire Management Plan.

FISH AND WILDLIFE STUDIES

Studies will be conducted by the U.S. Fish and Wildlife Service (USFWS) as required by the *Fish and Wildlife Coordination Act of 1958, as amended (PL 85-624)*. This work will include cooperative environmental data collection and evaluation of the environmental character of the study area. The work will be completed in the steps scheduled below.

Initiate USFWS Coordination and Scope of Work - A scope of work with funding levels will be prepared. The USFWS will coordinate with the Corps in review of pertinent literature and performance of field studies needed to evaluate the impacts of considered actions on fish and wildlife resources in order to assist the Corps in assessing project impacts on the environment. Coordination will be initiated by attending scoping meeting(s), reviewing the previous PALs, and preparing an updated feasibility stage PAL which will establish baseline and future “without project” biological resources.

Field Studies - Cooperatively assists in field studies to establish habitat conditions. Site visits will be conducted for obtaining field information and data on specific attributes for study areas. Field studies will be accomplished cooperatively with the Florida Fish and Wildlife Conservation Commission (FWC), USFWS, the Corps, and other appropriate resource agencies or groups to insure consistency and communication between the different elements.

Selection of Environmental Models - Cooperatively assist in the selection of models for impact analysis. Models that will be needed will be determined cooperatively by the USFWS, FWC, South Florida Water Management District (SFWMD), and the Corps. Fish and wildlife resources (e.g., wading birds or alligators) which need to be evaluated will be identified. Models will be reviewed to determine their capabilities and availability is to make the required evaluations.

Evaluation of Alternative Plans - Assist in the analysis and evaluation of projected environmental responses. Based on models and other impact assessment methods, an analysis and evaluation of the different project alternatives will be completed. Recommendations for improvements to project alternatives will be made based on these evaluations. Project alternatives will be ranked according to their benefits to fish and wildlife resources. Recommendations on how to minimize or eliminate any detrimental impacts will also be made.

Draft FWCAR - Complete the draft FWCAR for inclusion into the preliminary draft NEPA document sent to the Corps' higher authority before the AFB. The draft FWCAR will describe future “with project” biological resources and endangered species impacts.

Biological Opinion - Complete the Endangered Species Biological Opinion, if needed, before the AFB.

Revise FWCAR - Modify the draft FWCAR and Endangered Species Biological Opinion, if needed, following the AFB. Send the revised versions for inclusion to the draft NEPA document and draft PIR.

Final FWCAR - Revise the draft Feasibility Report following public and agency review, as needed. Provide the final FWCAR (and Endangered Species Biological Opinion, if needed) for inclusion with the final Project Implementation Report.

CULTURAL RESOURCES

The cultural resources section will include an evaluation of the impacts of the alternatives upon historical, architectural, and archeological resources. All studies will be coordinated with the SHPO in accordance with the *National Historic Preservation Act, as amended (PL 89-665)*, and the *Archeological and Historic Preservation Act, as amended (PL93-291)*. An assessment of the impacts of the proposed project upon cultural resources will be prepared as part of the National Environmental Policy Act analysis. Costs attributable to work under this account include the efforts required to prepare input for the preliminary draft, draft, and final Project Implementation Report, as well as participation in any of the required review conferences and resolution of comments as a result of the conferences.

Initial Assessment – This is an initial archeological assessment, including a cultural resources background literature and records check. Project areas will be visited to determine field conditions.

Scope of Work - Prepare a scope of work for Phase I archeological reconnaissance. It is assumed for purposes of preparing this cost estimate that the Phase I report will be done by a separate contract.

Phase I Investigation - This work activity allows for a Phase I reconnaissance of this area, which the assessment identifies as requiring this level of investigation. This effort will be performed by contract.

Archeological Initial Write-up - The results of the initial archeological assessment will be documented in the preliminary draft PIR.

Archeological Final Write-up - A final write-up specific to the selected alternative(s) will be prepared for inclusion in the PIR.

Appendix R Value Engineering Plan

This section is reserved for Value Engineering Plan that will be developed as the project progresses.

Appendix S Water Control Plan

This section is reserved for Water Control Plan that will be developed as the project progresses.

Appendix T

Operation and Maintenance Plan

This section is reserved for the Operation and Maintenance Plan, a copy of which is provided herein.

Operation and Maintenance Plan

1.0 Purpose

This Operations and Maintenance Plan (Plan) presents the policy and specific actions to be adopted for operating and maintaining the project elements after completion of the construction of the project to ensure that the project objectives are accomplished without adverse socio-economic and environmental impacts.

2.0 Project Definition

See Sections 1.0 and 2.0 of the Project Management Plan

3.0 Plan Objective

The Plan sets forth the requirements for Operation, Maintenance, Repair and Rehabilitation (OMR&R) of the structural and nonstructural elements of the project. This will include development of OMR&R Manuals for each element of the project for water management, land management, aquatic weed control, and plant and wildlife management in order to accomplish the objectives of the project.

4.0 Plan Development

4.1 Water Management

Immediately upon completion and acceptance of each project feature, the COE will turn over the responsibility of that feature to SFWMD for operation and maintenance. As the project construction proceeds, interim operations; and maintenance, and interim water control manuals for operation of the pumps and spreader channels will be provided to SFWMD for each completed project feature. Upon completion of the project construction and an operational testing and monitoring phase; a set of final operation, maintenance, and water control manuals will be assembled and provided to the SFWMD.

4.2 Land Management

In accordance with the State of Florida's interagency agreements, the project lands will be managed by the Florida Division of Forestry under the Picayune Strand State Forest. Land management practices for the lands acquired for restoration shall be consistent with project purposes. Restoration will occur by allowing the system to return to as near a natural state as hydrologically possible. However, as the project lands are acquired under the State's Conservation and Recreational Land (CARL) program, for recreational use and forestry management some land management practices including prescribed burning; non-native plant control; and posting to prevent trespassing will be necessary.

4.3 Aquatic Plant Control

The existing aquatic plant management performed by SFWMD in the canals at the project site may not be necessary. However, a limited biological, mechanical, and herbicidal program will be used to manage floating and submerged aquatic plants in the spreader channels and the pools. The categories of plant to be treated annually are projected to be: water hyacinth and water lettuce, hydrilla, and tussock.

Appendix U

Socioeconomics Study Plan

This section is reserved for Socioeconomics Study Plan that will be developed as the project progresses.

Appendix V
Environmental Justice Study Plan

This section is reserved for Environmental Justice Study Plan that will be developed as the project progresses.

Appendix W
Restoration Coordination and Verification Documentation

This section is reserved for Restoration Coordination and Verification Documentation that will be developed as the project progresses.

Appendix X Project Cooperation Agreement

This section is reserved for Project Cooperation Agreement that will be developed as the project progresses.

Appendix Y
Summary of Work-In-Kind Services

The Summary of Work-In-Kind is provided in Section 14. Additional material generated during this plan, in any, will be included in this appendix.

Appendix Z

Reference Documents and Forms

This section is reserved for Reference Documents and Forms that will be developed as the project progresses.

Appendix AA Summary of Changes

This section is reserved for Summary of Changes that will be developed as the project progresses.

Appendix BB
Picayune Strand State Forest

This section is reserved for the Picayune Strand State Forest Plan, a copy of which is provided herein.

***PICAYUNE STRAND STATE FOREST
POST RESTORATION ROAD PLAN -FINAL DRAFT***

Introduction

The Picayune Strand State Forest is made up of the Belle Meade Tract and South Golden Gate Estates Tract (SGGE). A hydrologic restoration plan has been written and reviewed for SGGE, which involves blocking the canals, installing a system of pumps and spreader channels, and road removal. The goal of the plan is to restore the hydrology to near pre- development conditions, while not negatively impacting the flood control for Northern Golden Gate Estates or wildlife species and their habitats. ***This plan is dependent upon state ownership of the affected parcels.***

The post restoration road plan will incorporate the following objectives into the hydrologic restoration:

- Provide management access for prescribed burning, wildfire control, control of exotic vegetation, wildlife management, monitoring, forest product sales, and all other activities approved in the five-year management plan.
- Maintain access to private property outside the project area, specifically into Belle Meade and Fakahatchee Strand.
- Provide public access for hunting, fishing, nature study, and other approved recreational opportunities.
- All weather access to the pump stations for flood control.
- Minimize impact on wildlife caused by the roads that do not intercept sheet flow, by removing unnecessary roads in upland areas.
- Provide travel corridors for wildlife. Panthers and black bears are known to use open areas such as roads, especially through areas of thick undergrowth or deep water.
- Provide access to monitoring sites as established by the SGGE working group.
- Attempt to market the excess fill to reduce costs of the restoration. Where possible remove **all** fills on roads to be abandoned to reduce the need for additional exotic control on those disturbed areas.

Hurricane evacuation routes are **not** a goal of this plan. After restoration it is anticipated that most of the road system will be under water during the rainy season and unsafe for use in front of an oncoming hurricane.

Road Categories

Highway: Federal, state, and county maintained highways. The state forest is bounded by highways on the north, west, and south. However, there is no public access into the PSSF from these highways, except for the wildlife viewing area planned for the Port of the Islands, and from Sabal Palm Road east from Collier Blvd.

Primary Roads: All weather roads open to the public year round. These will require culverts or other types of method to restore sheet flow, while providing for the safety of the public. Average daily traffic is estimated at greater than 50.

Secondary Roads: These gated roads will be at ambient grade, and will use low water crossings, geoweb, and other methods to stabilize the roadbed. The main purpose will be for management access, but include other permitted uses such as hunting and landowner access. These are usually connectors between primary roads to points of travel. Average daily traffic is estimated to be less than 50.

Service Roads: Two Dirt trails, used seasonally for management purposes. These would generally not be stabilized. Average daily traffic is estimated to be less than one. Some service roads may be designated for use by off road vehicles if allowed by the five-year management plan. The density of service roads is higher in Belle Meade than SGGE, due to the heavy Melaleuca infestation requiring control over the next ten to twenty years.

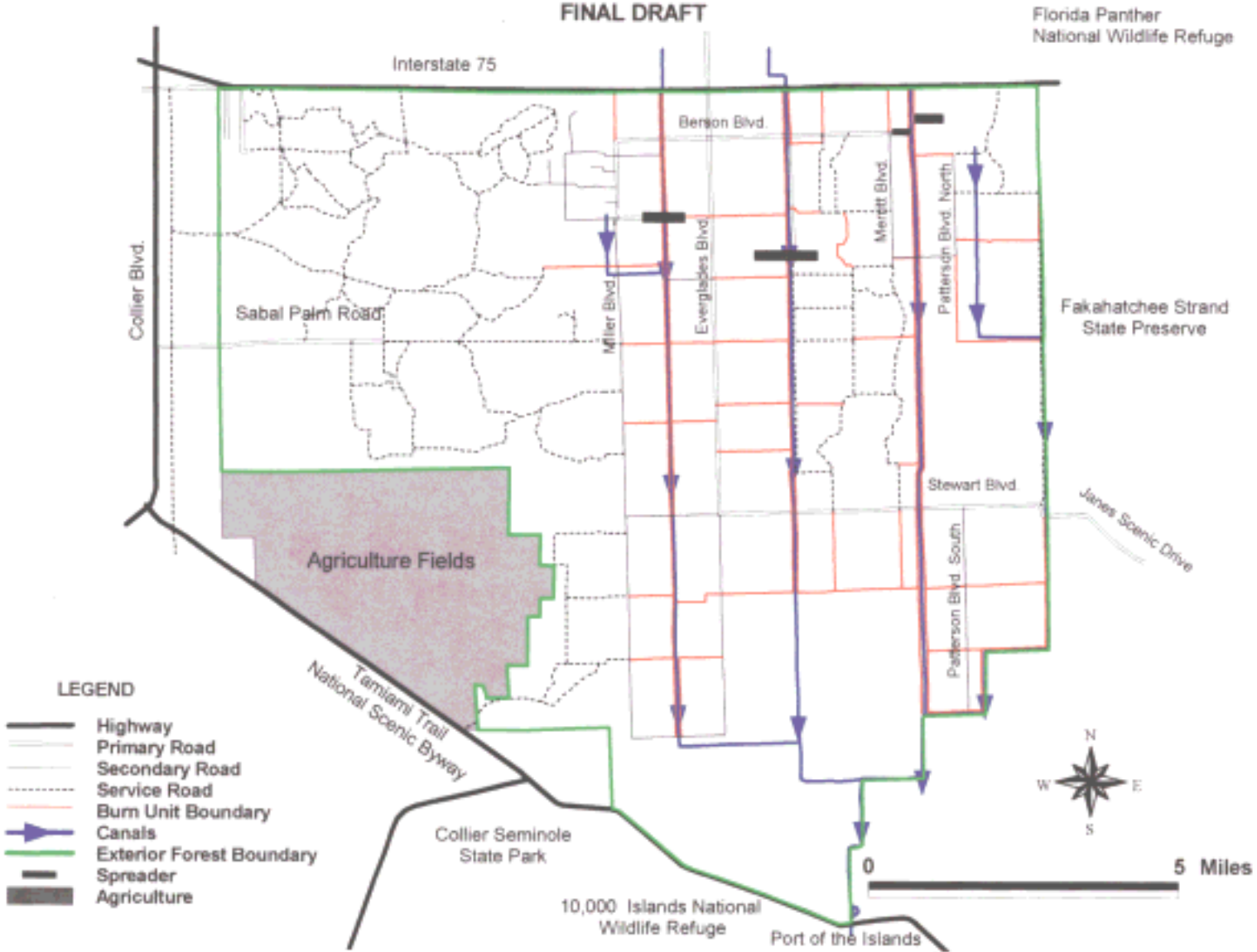
Prescribed burn boundaries: These are to be blocked or gated. They will be mowed annually, and disked before burning, generally once every three to five years. They may also be used occasionally for exotic control or another management purpose. In general, burn unit boundaries will be established along both banks of the canals.

Temporary roads: Work roads may be created on an as needed basis. These will be used for the duration of the project (such as exotic control), restored if needed, and then permanently closed.

Issues to be resolved

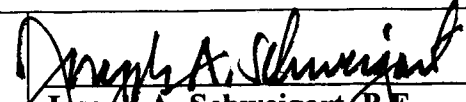
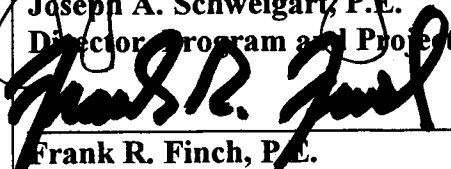
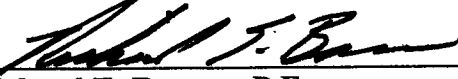
The public roads within South Golden Gate Estates are currently maintained by Collier County. As acquisition of the land is completed, the roads would need to be abandoned by the county before the restoration. This will save the taxpayers many thousands of dollars in the future. It has not yet been determined whether the county would continue to maintain those roads, which will be left open to the public.

**Picayune Strand State Forest
Post Restoration Road Plan
FINAL DRAFT**



Appendix CC

Log of Plan Approval

Initial Approval	 Joseph A. Schweigart, P.E. Director, Program and Project Management, SFWMD	<u>5/2/01.</u> Date
	 Frank R. Finch, P.E. Executive Director, SFWMD	<u>5-2-01</u> Date
	 Richard E. Bonner, P.E. Deputy District Engineer, USACE	<u>5-24-01</u> Date